

- NOTES:
1. CONTRACTOR SHALL COORDINATE WITH AND PROVIDE ADEQUATE AS BUILT DRAWINGS TO THE VILLAGE OF ALGONQUIN OF THE INSTALLED UNDERGROUND CONDUITS.
 2. ALL ENDS SHALL BE CAPPED WITH WATER TIGHT CAPS. CAPS ARE INCLUDED IN THE COST OF THE UNDERGROUND CONDUIT, GALVANIZED STEEL, OF THE SPECIFIED DIAMETER.



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STONEGATE ROAD IRRIGATION PLAN

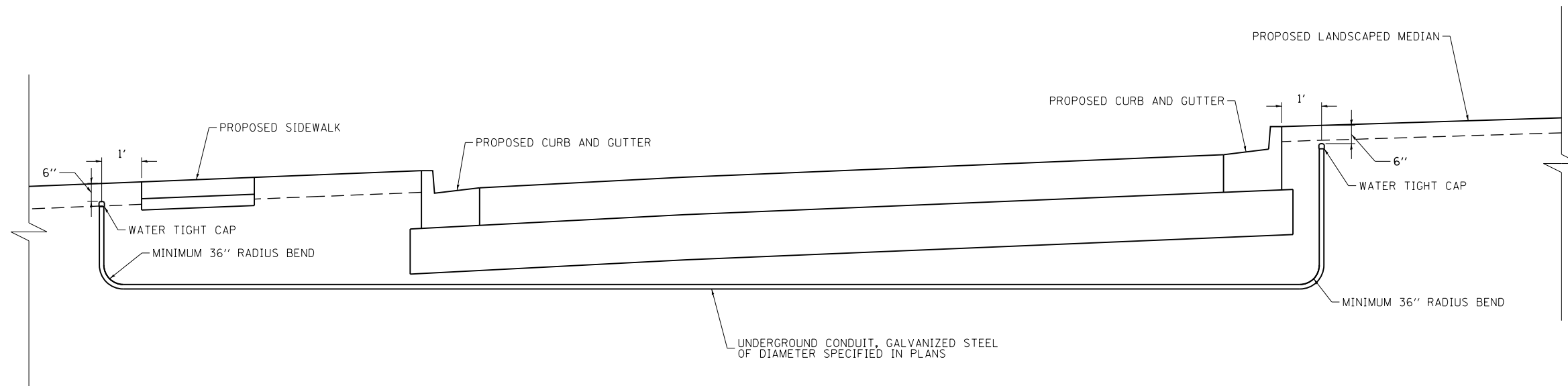
SCALE: 1" = 50' SHEET 5 OF 6 SHEETS STA 100+00 TO STA 109+00

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-01-PW	MCHENRY	1751	501
CONTRACT NO.			61E53	

ILLINOIS FED. AID PROJECT

NOTES:

1. CONTRACTOR SHALL COORDINATE WITH AND PROVIDE ADEQUATE AS BUILT DRAWINGS TO THE VILLAGE OF ALGONQUIN OF THE INSTALLED UNDERGROUND CONDUITS.
2. ALL ENDS SHALL BE CAPPED WITH WATER TIGHT CAPS. CAPS ARE INCLUDED IN THE COST OF THE UNDERGROUND CONDUIT, GALVANIZED STEEL, OF THE SPECIFIED DIAMETER.



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IRRIGATION PLAN DETAILS

SCALE: NONE SHEET 6 OF 6 SHEETS

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-01-PW	MCHENRY	1751	502
			CONTRACT NO.	61E53
ILLINOIS FED. AID PROJECT				

TRAFFIC SIGNAL SCHEDULE OF QUANTITIES

PAY ITEM #	PAY ITEM NAME	UNIT	QTY TOTAL	RANDALL & HARNISH	RANDALL & BUNKER HILL/ HUNTINGTON	RANDALL & STONEGATE	RANDALL & ALGONQUIN	RANDALL & COSTCO/ AMC DRIVEWAY	RANDALL & POLARIS/ ACORN	ALGONQUIN & CRYSTAL LAKE	INTERCONNECT
72000100	SIGN PANEL - TYPE 1	SQ FT	300		60	30	60	30	60	60	
80500010	SERVICE INSTALLATION - GROUND MOUNTED	EACH	3		1	1	1				
80500020	SERVICE INSTALLATION - POLE MOUNTED	EACH	3					1	1	1	
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	10,501		24	19	29	14	25	90	10,300
81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	573	40	106	83	50	58	142	94	
81028230	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3 1/2" DIA.	FOOT	226		27	27	97	47		28	
81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	4,537	316	662	712	1,100	672	578	497	
81400100	HANDHOLE	EACH	27		2	4		4	2	2	13
81400300	DOUBLE HANDHOLE	EACH	14		2	2	4	2	2	2	
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	4								4
86400100	TRANSCEIVER - FIBER OPTIC	EACH	6		1	1	1	1	1	1	
87100140	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, 12F	FOOT	800								800
87300901	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 12 1C	FOOT	18,760								18,760
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	12,993	2,365	3,887	1,292	1,979	1,152	1,582	736	
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	20,611	3,754	4,279	2,930	3,319	2,599	2,644	1,086	
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	24,729		3,773	5,106	5,714	4,680	3,437	2,019	
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	8,345		2,232		1,806		1,828	2,479	
87301290	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 18 3C	FOOT	4,788		1,000	485	1,122	464	889	828	
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	355		50	50	50	50	50	105	
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	6,144	265	933	968	1,393	923	854	808	
87502440	TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	4	3					1		
87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	6			2		2		2	
87702820	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 18 FT.	EACH	1				1				
87702840	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 22 FT.	EACH	2				1		1		
87702850	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 24 FT.	EACH	2				1		1		
87702860	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 26 FT.	EACH	1						1		
87702870	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 28 FT.	EACH	3		1		1		1		
87702880	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 30 FT.	EACH	1		1						
87702890	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 32 FT.	EACH	2		2						
87702910	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 36 FT.	EACH	1						1		
87702960	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 46 FT.	EACH	3							3	
87702970	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 48 FT.	EACH	2						2		
87702985	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 52 FT.	EACH	2		1					1	
87702990	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 54 FT.	EACH	2		2						
87703000	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 55 FT.	EACH	1						1		
87703020	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 58 FT.	EACH	1			1					
87703030	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 60 FT.	EACH	2		1		1				
87703040	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 62 FT.	EACH	1			1					
87703070	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 66 FT.	EACH	1				1				
87703080	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 68 FT.	EACH	1					1			
87703090	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 70 FT.	EACH	1				1				
87703110	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 74 FT.	EACH	1				1				
87703120	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 75 FT.	EACH	1					1			
87704320	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 24 FT. AND 32 FT.	EACH	2			2					
87704350	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 32 FT.	EACH	1					1			
87704360	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 32 FT. AND 34 FT.	EACH	1					1			
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	84	12	12	20	4	20	4	12	
87800150	CONCRETE FOUNDATION, TYPE C	FOOT	24		4	4	4	4	4	4	
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	409		105	32	60	32	120	60	
87800420	CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	209		21	42	96	50			
87900100	DRILL EXISTING FOUNDATION	EACH	1	1							
87900200	DRILL EXISTING HANDHOLE	EACH	10	8							2
88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	91		14	18	20	18	14	7	
88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	6			2		2		2	
88030070	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	4							4	
88030080	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	4							4	



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNALS
SCHEDULE OF QUANTITIES**

SCALE: NONE SHEET 1 OF 66 SHEETS STA TO STA

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-01-PW	MCHENRY	1751	503
CONTRACT NO.			61E53	
ILLINOIS FED. AID PROJECT				

TRAFFIC SIGNAL SCHEDULE OF QUANTITIES

PAY ITEM #	PAY ITEM NAME	UNIT	QTY TOTAL	RANDALL & HARNISH	RANDALL & BUNKER HILL/HUNTINGTON	RANDALL & STONEGATE	RANDALL & ALGONQUIN	RANDALL & COSTCO/ AMC DRIVEWAY	RANDALL & POLARIS/ ACORN	ALGONQUIN & CRYSTAL LAKE	INTERCONNECT
88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2							2	
88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	26		8		8		8	2	
88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	44	8	8	4	8	4	8	4	
88200510	TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	121		22	18	28	18	22	13	
88700200	LIGHT DETECTOR	EACH	22		4	4	4	4	4	2	
88700300	LIGHT DETECTOR AMPLIFIER	EACH	6		1	1	1	1	1	1	
89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	4		1		1		1	1	
89502210	MODIFY EXISTING CONTROLLER CABINET	EACH	2								2
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	4		1		1		1	1	
89502380	REMOVE EXISTING HANDHOLE	EACH	37		9		4		2	3	19
89502382	REMOVE EXISTING DOUBLE HANDHOLE	EACH	5		1		1		2	1	
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	34		9		7		9	9	
X0323914	FIBER OPTIC CABLE SPLICE - LATERAL	EACH	10	1	1	1	1	1	1	1	3
X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	5,437		1,113	1,067	1,284	975	675	323	
X0324599	ROD AND CLEAN EXISTING CONDUIT	FOOT	7,140								7,140
X0327698	LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	28	4	4	4	4	4	4	4	
X1400102	OUTDOOR RATED NETWORK CABLE	FOOT	600	100	100		300		100		
X1400156	RADAR VEHICLE DETECTION SYSTEM, SINGLE APPROACH, FAR BACK	EACH	14		2	2	4	2	2	2	
X1400201	RADAR VEHICLE DETECTION SYSTEM, SINGLE APPROACH, STOP BAR	EACH	4			2		2			
X1400215	REMOTE CONTROLLED VIDEO SYSTEM	EACH	4	1	1		1		1		
X8570226	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	8	1	1	1		1	1	1	2
X8570231	FULL-ACTUATED CONTROLLER AND TYPE V CABINET, SPECIAL	EACH	1				1				
X8600105	MASTER CONTROLLER (SPECIAL)	EACH	1								1
X8620200	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	9	1	1	1	1	1	1	1	2
X8710200	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM36F	FOOT	19,600								19,600
X8760055	PEDESTRIAN PUSH-BUTTON POST, TYPE A	EACH	8		2	2		3		1	
X8760200	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	48	8	8	6	8	6	8	4	
X8950510	REMOVE FIBER OPTIC CABLE FROM CONDUIT	FOOT	19,500								19,500
Z0033056	OPTIMIZE TRAFFIC SIGNAL SYSTEM	EACH	1								1
Z0033072	VIDEO VEHICLE DETECTION SYSTEM	EACH	6		1	1	1	1	1	1	
Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	4		1		1		1	1	
	DATA AGGREGATOR	EACH	3								3

TRAFFIC SIGNAL GENERAL NOTES:

- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION. THIS SHALL INCLUDE LOCATING THE MAST ARM FOUNDATIONS AND VERIFYING THE MAST ARM LENGTHS.
- THE EXACT LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE ORDERING ANY MATERIALS AND STARTING ANY WORK. FOR LOCATIONS OF UTILITIES, LOCALLY OWNED EQUIPMENT, LEASED ENFORCEMENT CAMERA SYSTEM FACILITIES AND IDOT UNDERGROUND FACILITIES, CONTACT THE LOCAL COUNTIES, MUNICIPALITIES AND IDOT FOR LOCATES. THE CONTRACTOR SHALL CALL "JULIE" AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED UTILITIES (48 HOURS NOTIFICATION REQUIRED).
- THE CONTRACTOR SHALL CHECK THE PROPOSED TRAFFIC SIGNAL EQUIPMENT LOCATIONS FOR OVERHEAD UTILITY CONFLICTS. THE CONTRACTOR SHALL COORDINATE ANY CONFLICTS WITH THE UTILITY COMPANIES AND THE RESIDENT ENGINEER BEFORE ORDERING MATERIALS.
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, LOCAL GOVERNMENT AGENCIES AND IDOT.
- ALL TYPE IV SIGNAL CABINETS SHALL BE 65 INCHES HIGH MODIFIED TYPE IV CABINETS WITH AN ADDITIONAL SHELF. CONTRACTOR SHALL PROVIDE CABINET SHOP DRAWINGS FOR COUNTY REVIEW AND APPROVAL PRIOR TO ORDERING MATERIALS.
- FOUNDATIONS FOR TRAFFIC SIGNAL MAST ARM ASSEMBLIES SHALL HAVE A MINIMUM DEPTH OF 15 FT, AS SPECIFIED IN PLANS. FOUNDATION DEPTHS FOR MAST ARMS LESS THAN 50 FT, SPECIFIED IN DISTRICT ONE STANDARD TS-05 AND HIGHWAY STANDARD 878001-10 SHALL NOT APPLY.

TEMPORARY TRAFFIC SIGNAL GENERAL NOTES:

- ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.
- ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATABLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1, INSTALLED IN A NEMA TS1 OR TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.
- ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE 12". HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY OTHER POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.
- ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SIGNAL SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.
- ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROLER EQUIPMENT.
- EXISTING EMERGENCY VEHICLE PREEMPTION (EVP) EQUIPMENT SHALL BE RETURNED TO THE FIRE PROTECTION DISTRICT AS INDICATED IN THE REMOVAL PLANS. THE EQUIPMENT SHALL BE DELIVERED TO 1020 W ALGONQUIN ROAD, LAKE IN THE HILLS, IL 60156. CONTACT FIRE PROTECTION DISTRICT AT 847-658-8233 TO SCHEDULE AN APPOINTMENT FOR DELIVERY. REQUIREMENTS FOR REMOVAL, STORAGE AND DELIVERY OF COUNTY EQUIPMENT AS NOTED IN THE TRAFFIC SIGNAL SPECIFICATIONS SHALL ALSO APPLY TO THE EVP EQUIPMENT.



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNALS
SCHEDULE OF QUANTITIES**

SCALE: NONE SHEET 2 OF 66 SHEETS STA TO STA

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-01-PW	MCHENRY	1751	504
CONTRACT NO.			61E53	
ILLINOIS FED. AID PROJECT				

TRAFFIC SIGNAL LEGEND

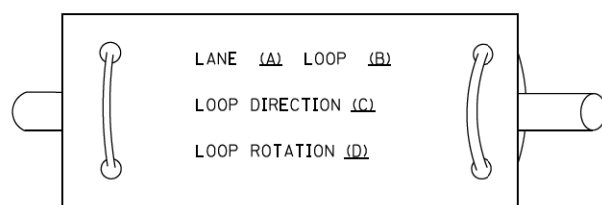
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ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED
CONTROLLER CABINET			HANDHOLE -SQUARE -ROUND	 	 	SIGNAL HEAD -(P) PROGRAMMABLE SIGNAL HEAD		
COMMUNICATION CABINET			HEAVY DUTY HANDHOLE -SQUARE -ROUND	 	 	SIGNAL HEAD WITH BACKPLATE -(P) PROGRAMMABLE SIGNAL HEAD -(RB) RETROREFLECTIVE BACKPLATE		
MASTER CONTROLLER			DOUBLE HANDHOLE			PEDESTRIAN SIGNAL HEAD AT RAILROAD INTERSECTIONS		
MASTER MASTER CONTROLLER			JUNCTION BOX			PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER		
UNINTERRUPTABLE POWER SUPPLY			RAILROAD CANTILEVER MAST ARM			ILLUMINATED SIGN "NO LEFT TURN"/"NO RIGHT TURN"		
SERVICE INSTALLATION -(P) POLE MOUNTED			RAILROAD FLASHING SIGNAL			NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE. ALL DETECTOR LOOP CABLE TO BE SHIELDED		
SERVICE INSTALLATION -(G) GROUND MOUNTED -(GM) GROUND MOUNTED METERED	 	 	RAILROAD CROSSING GATE			GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)		
TELEPHONE CONNECTION			RAILROAD CROSSBUCK			ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1/C		
STEEL MAST ARM ASSEMBLY AND POLE			RAILROAD CONTROLLER CABINET			COAXIAL CABLE		
ALUMINUM MAST ARM ASSEMBLY AND POLE			UNDERGROUND CONDUIT (UC), GALVANIZED STEEL			VENDOR CABLE		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE			TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE			COPPER INTERCONNECT CABLE, NO. 18, 3 PAIR TWISTED, SHIELDED		
SIGNAL POST -(BM) BARREL MOUNTED - TEMPORARY			SYSTEM ITEM	S	SP	FIBER OPTIC CABLE -NO. 62.5/125, MM12F -NO. 62.5/125, MM12F SM12F -NO. 62.5/125, MM12F SM24F		
WOOD POLE			INTERSECTION ITEM	I	IP	GROUND ROD -(C) CONTROLLER -(M) MAST ARM -(P) POST -(S) SERVICE		
GUY WIRE			REMOVE ITEM		R			
SIGNAL HEAD			RELOCATE ITEM		RL			
SIGNAL HEAD WITH BACKPLATE			ABANDON ITEM		A			
SIGNAL HEAD OPTICALLY PROGRAMMED			CONTROLLER CABINET AND FOUNDATION TO BE REMOVED		RCF			
FLASHER INSTALLATION -(FS) SOLAR POWERED	 	 	MAST ARM POLE AND FOUNDATION TO BE REMOVED		RMF			
PEDESTRIAN SIGNAL HEAD			SIGNAL POST AND FOUNDATION TO BE REMOVED		RPF			
PEDESTRIAN PUSH BUTTON -(APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON			DETECTOR LOOP, TYPE I					
RADAR DETECTION SENSOR			PREFORMED DETECTOR LOOP					
VIDEO DETECTION CAMERA			SAMPLING (SYSTEM) DETECTOR					
RADAR/VIDEO DETECTION ZONE			INTERSECTION AND SAMPLING (SYSTEM) DETECTOR					
PAN, TILT, ZOOM (PTZ) CAMERA			QUEUE AND SAMPLING (SYSTEM) DETECTOR					
EMERGENCY VEHICLE LIGHT DETECTOR			WIRELESS DETECTOR SENSOR					
CONFIRMATION BEACON			WIRELESS ACCESS POINT					
WIRELESS INTERCONNECT								
WIRELESS INTERCONNECT RADIO REPEATER								

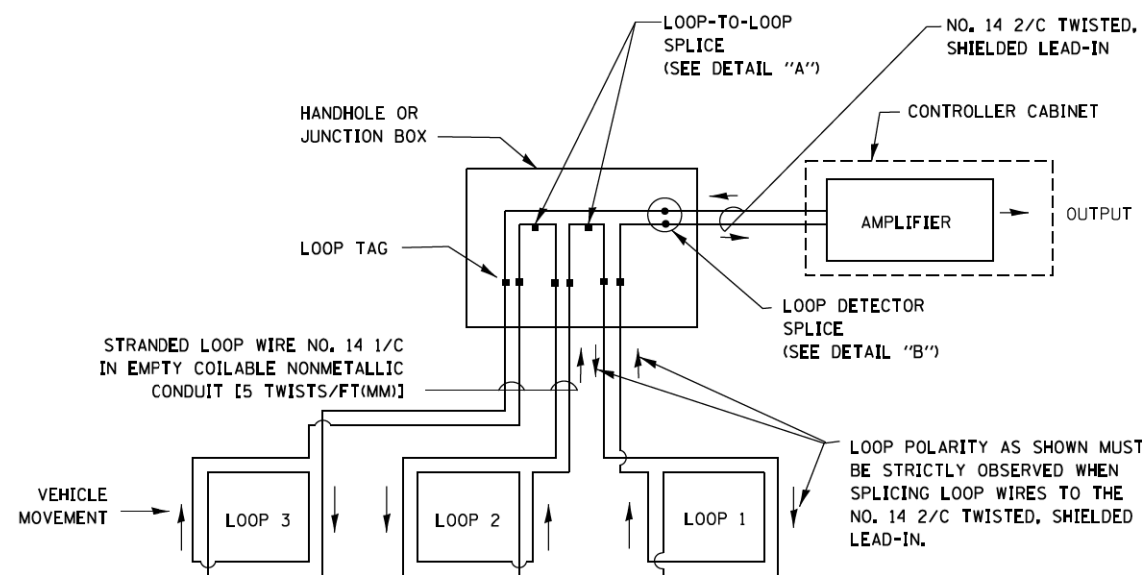
LOOP DETECTOR NOTES

1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.
6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

LOOP LEAD-IN CABLE TAG

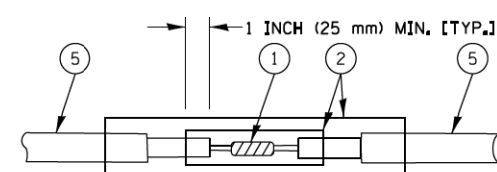


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

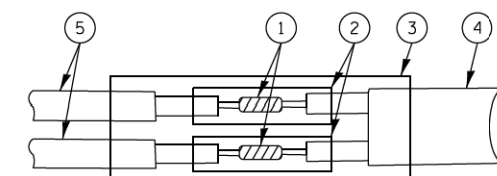


DETECTOR LOOP WIRING SCHEMATIC

- LOOPS SHALL BE SPLICED IN SERIES.
- SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm). IF IN CONCRETE, THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.

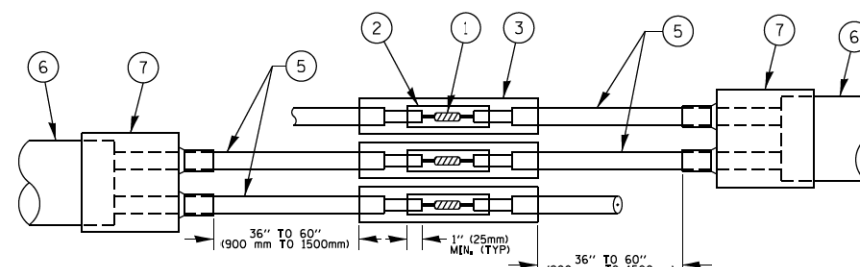


DETAIL "A"
LOOP-TO-LOOP SPLICE

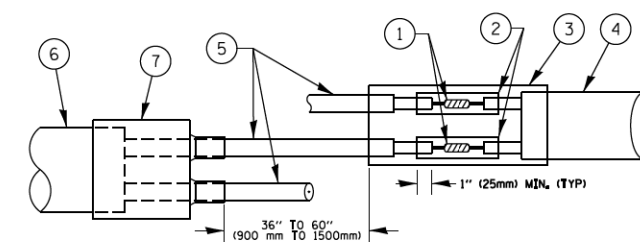


DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

LOOP DETECTOR SPLICE

- 1 WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH. THE WESTERN UNION SPLICES SHALL BE STAGGERED.
- 2 WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- 3 WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGTH 6" (150 mm), UNDERWATER GRADE.
- 4 NO. 14 2/C TWISTED, SHIELDED CABLE.
- 5 LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- 6 PRE-FORMED LOOP
- 7 XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

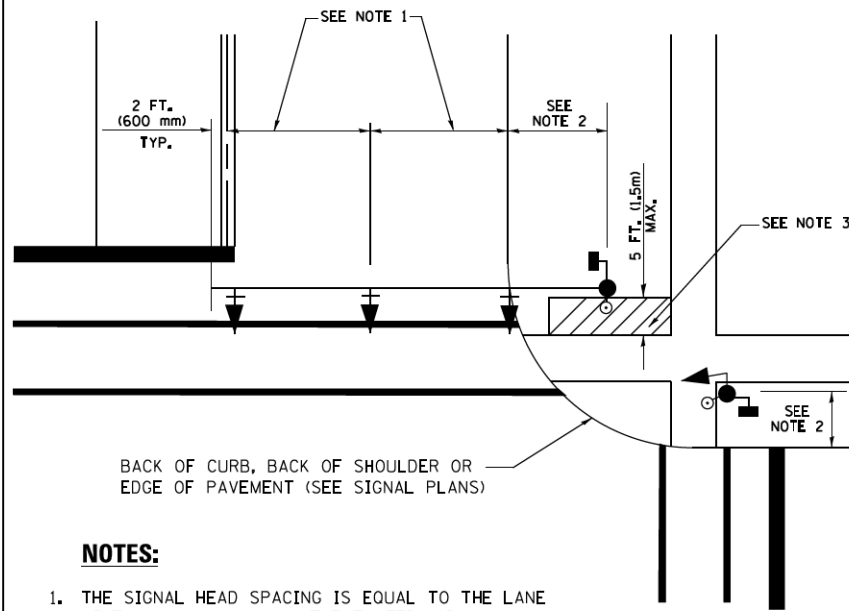
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DISTRICT ONE	
STANDARD TRAFFIC SIGNAL DESIGN DETAILS	
SCALE: NONE	SHEET NO. 2 OF 7 SHEETS
STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-01-PW	MCHENRY	1751	506
TS-05			CONTRACT NO. 61E53	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

**TRAFFIC SIGNAL MAST ARM AND SIGNAL POST
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR
FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN
WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.**

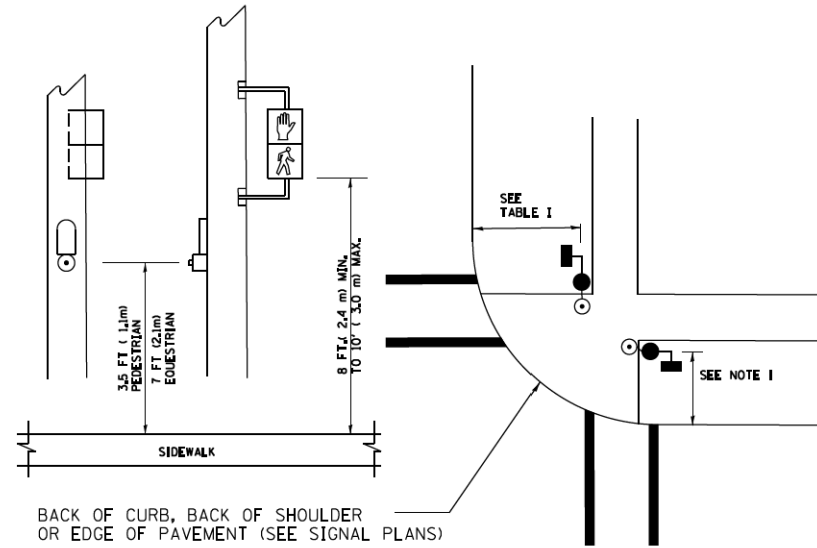


BACK OF CURB, BACK OF SHOULDER OR
EDGE OF PAVEMENT (SEE SIGNAL PLANS)

NOTES:

1. THE SIGNAL HEAD SPACING IS EQUAL TO THE LANE WIDTH OR AS SHOWN ON THE TRAFFIC SIGNAL PLAN.
2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
5. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

**PEDESTRIAN SIGNAL POST
AND
PEDESTRIAN PUSH BUTTON POST**

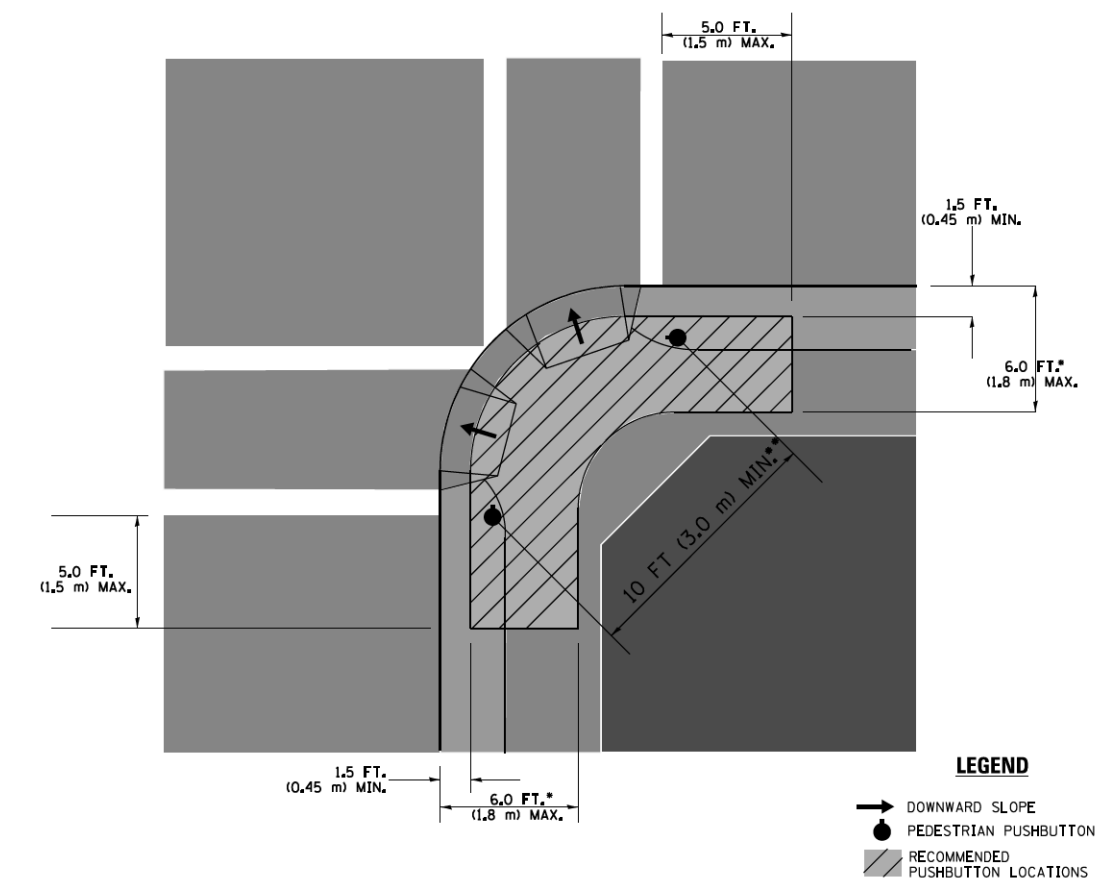


BACK OF CURB, BACK OF SHOULDER
OR EDGE OF PAVEMENT (SEE SIGNAL PLANS)

NOTES:

1. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
2. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE PEDESTRIAN SIGNAL POST OR THE PEDESTRIAN PUSH BUTTON POST.
3. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
4. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

RECOMMENDED PUSHBUTTON LOCATIONS



LEGEND

- DOWNWARD SLOPE
- PEDESTRIAN PUSHBUTTON
- ▨ RECOMMENDED PUSHBUTTON LOCATIONS

- * WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT (1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
- ** WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

NOTES:

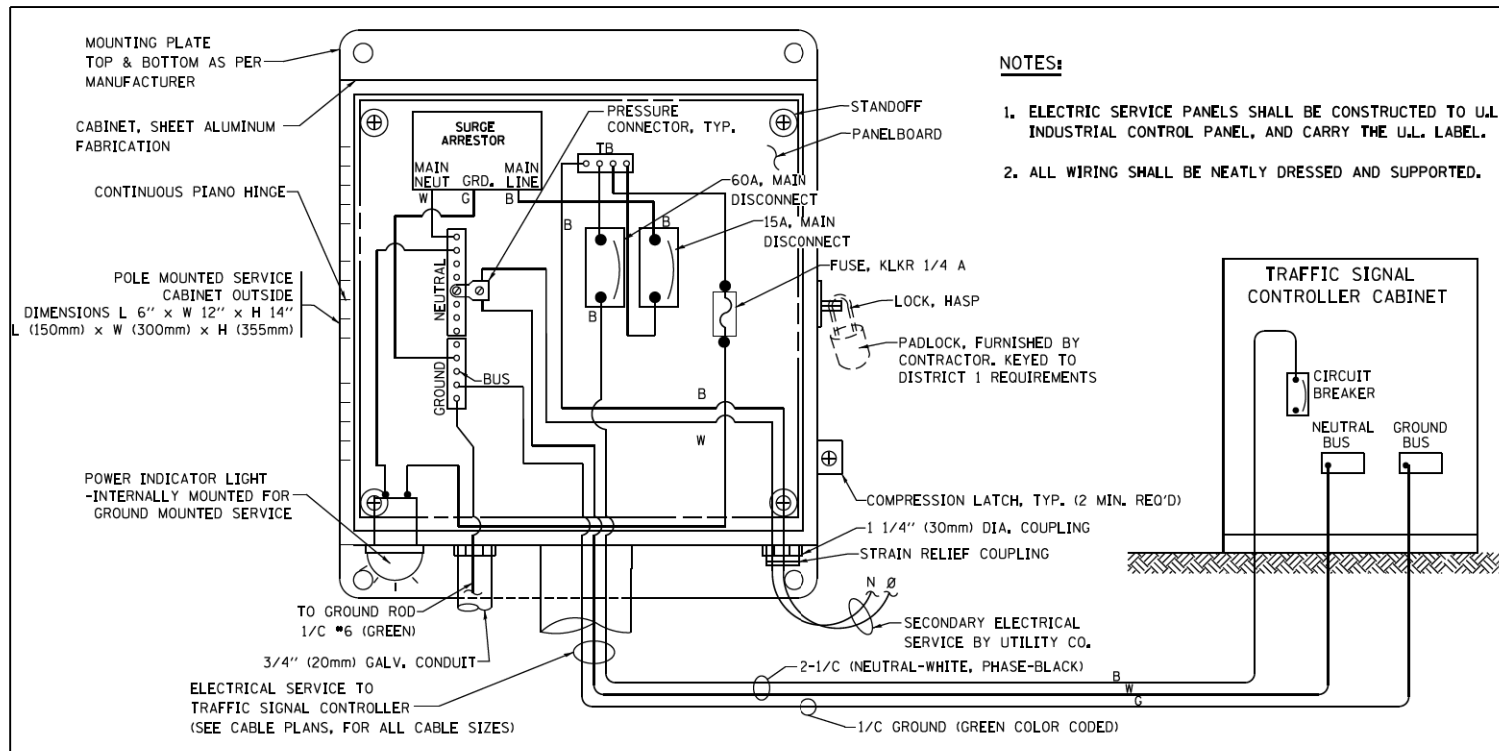
1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
2. THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) OF A VEHICULAR SIGNAL FACE THAT IS NOT LOCATED OVER A HIGHWAY SHALL BE AT LEAST 8 FT (2.4 m) BUT NOT MORE THAN 19 FT (5.8 m) ABOVE THE SIDEWALK OR, IF THERE IS NO SIDEWALK, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY.
3. THE BOTTOM OF THE SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001, 877002, 877006, 877011 AND 877012 WITH A MINIMUM OF 16 FT (5.0 m) AND A MAXIMUM OF 18 FT. (5.5 m) FROM THE HIGHEST POINT OF PAVEMENT.
4. THE BOTTOM OF THE TEMPORARY SPAN WIRE MOUNTED SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARD 880001 WITH A MINIMUM OF 17 FT (5.18 m) FROM THE HIGHEST POINT OF PAVEMENT.
5. THE TOP OF THE SIGNAL HOUSING OF A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL NOT BE MORE THAN 25.6 FT (7.8 m) ABOVE THE PAVEMENT.

TRAFFIC SIGNAL EQUIPMENT OFFSET

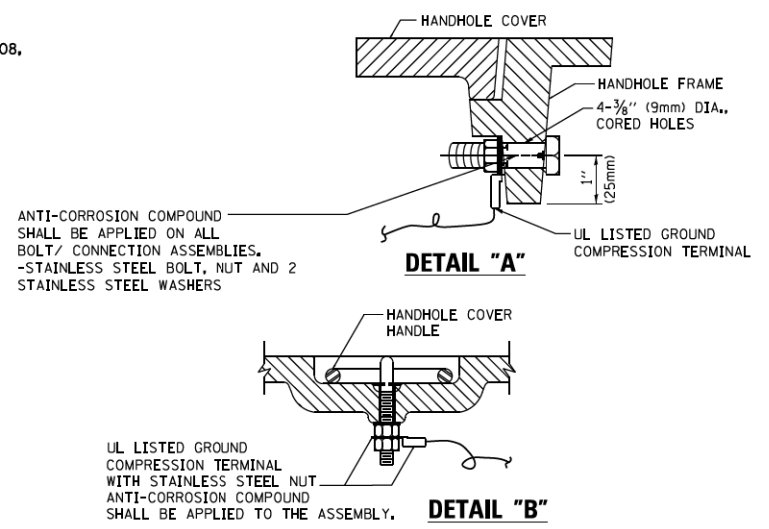
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN PUSHBUTTON POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TEMPORARY WOOD POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
CONTROLLER CABINET	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.
SERVICE INSTALLATION, GROUND MOUNT	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.

NOTES:

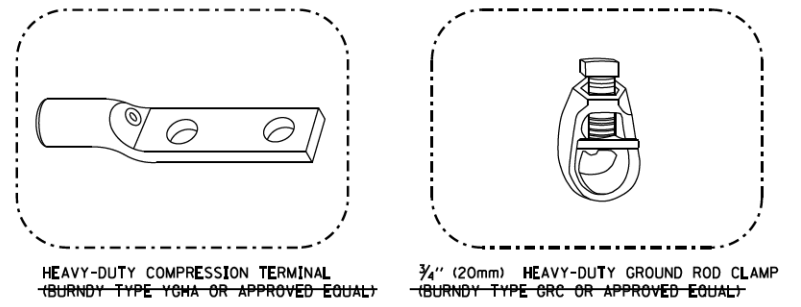
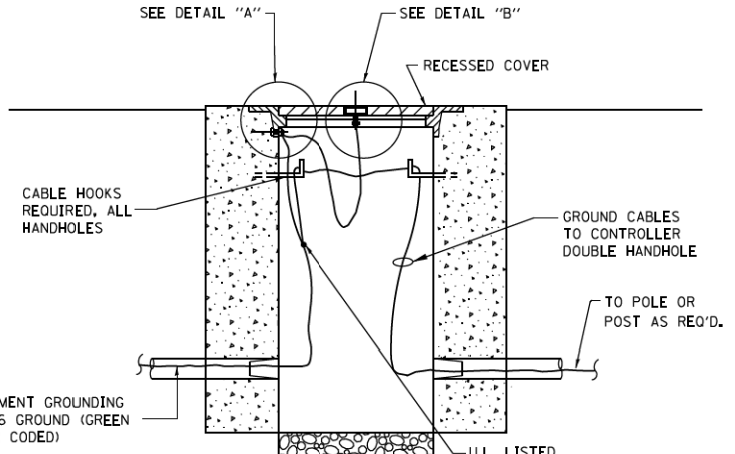
1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TO THE ROADWAY SIDE OF THE FOUNDATION.
4. ANY CHANGES TO THE OFFSETS OF THE FOUNDATIONS, FROM THE MINIMUM DISTANCES LISTED IN THE "TRAFFIC SIGNAL EQUIPMENT OFFSET" CHART AND THE TRAFFIC SIGNAL INSTALLATION PLAN, COULD EFFECT THE PLACEMENT OF THE SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS AND THE PEDESTRIAN PUSHBUTTONS. THE SIGNAL HEAD PLACEMENT ON THE MAST ARMS SHALL REMAIN AS PER THE TRAFFIC SIGNAL INSTALLATION PLAN AND THE "TRAFFIC SIGNAL MAST ARM AND SIGNAL POST" DETAIL ABOVE. THE PROPOSED MAST ARM LENGTHS MAY NEED TO BE REVISED TO MEET THE ABOVE REQUIREMENTS. THE PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS MUST MEET THE REQUIREMENTS UNDER THE DETAILS ON THIS SHEET.



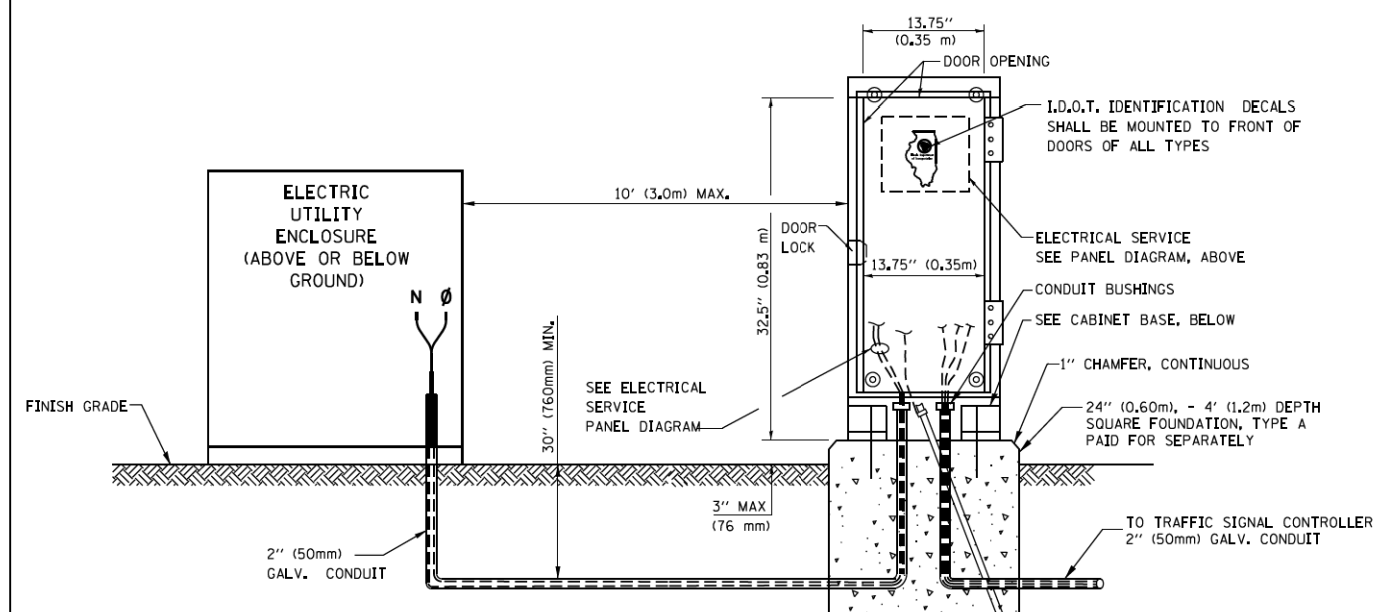
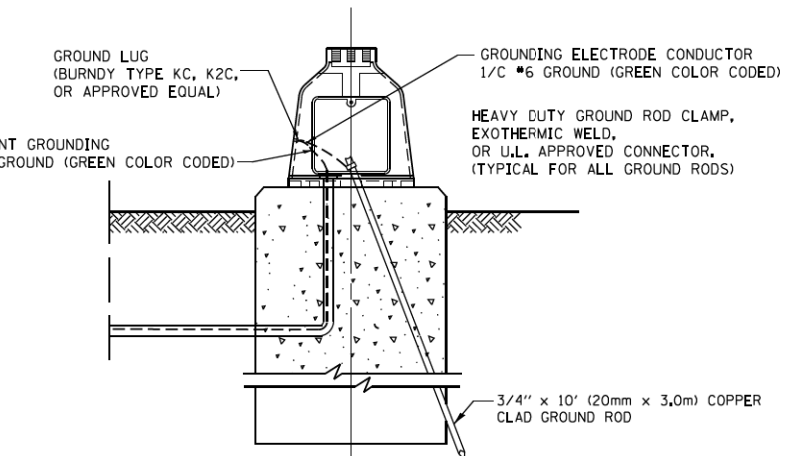
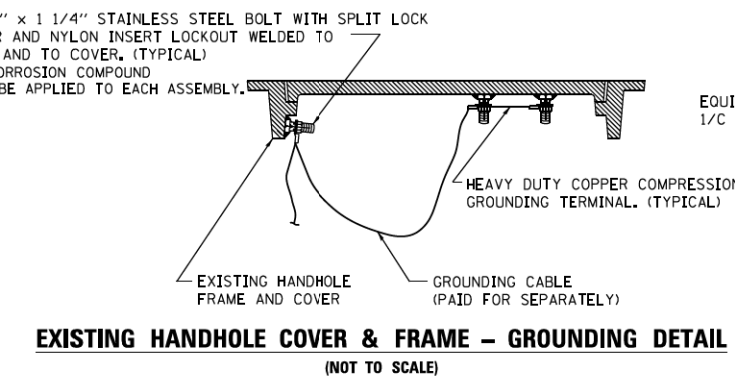
ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE) SERVICE INSTALLATION POLE MOUNT (SHOWN) (NOT TO SCALE)



- NOTES:**
- GROUNDING SYSTEM**
1. THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE (HANDHOLE, POST, MAST ARM, CONTROLLER, ETC.). GROUND ROD SHALL BE 3/4" DIA. x 10'-0" (20mm x 3.0m) LONG, COPPER CLAD, ONE GROUND ROD SHALL BE INSTALLED AT ALL POST FOUNDATIONS, POLE FOUNDATIONS, CONTROLLER CABINET FOUNDATION AND ELECTRICAL SERVICE INSTALLATION AS INDICATED ON THE CABLE PLAN. IF THERE ARE ANY SPECIAL CONDITIONS SUCH AS SUB-SURFACE CONDITIONS OR INSTALLATION PROBLEMS, THE RESIDENT ENGINEER SHALL BE NOTIFIED OR CONTACT THE BUREAU OF TRAFFIC, ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE AT (847) 705-4139.
 2. THE NEUTRAL CONDUCTOR AND THE GROUND CONDUCTOR SHALL BE CONNECTED IN THE SERVICE INSTALLATION. AT NO OTHER POINT IN THE TRAFFIC SIGNAL SYSTEM SHALL THE NEUTRAL AND GROUND CONDUCTORS BE CONNECTED.
 3. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
 4. THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.

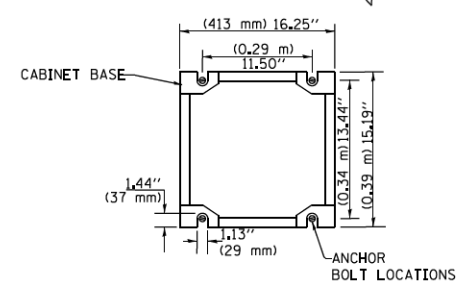


- NOTES:**
- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
 - GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES. 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES. 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



SERVICE INSTALLATION GROUND MOUNT (NOT TO SCALE)

CABINET – BASE BOLT PATTERN (NOT TO SCALE)



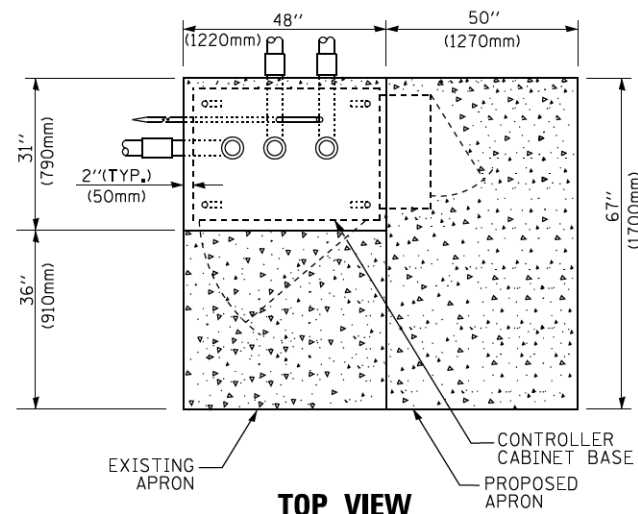
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

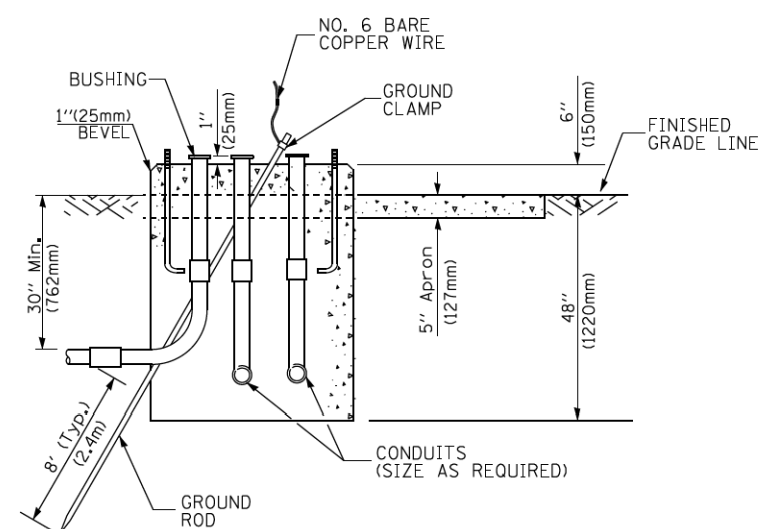
**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: NONE SHEET NO. 4 OF 7 SHEETS STA. TO STA.

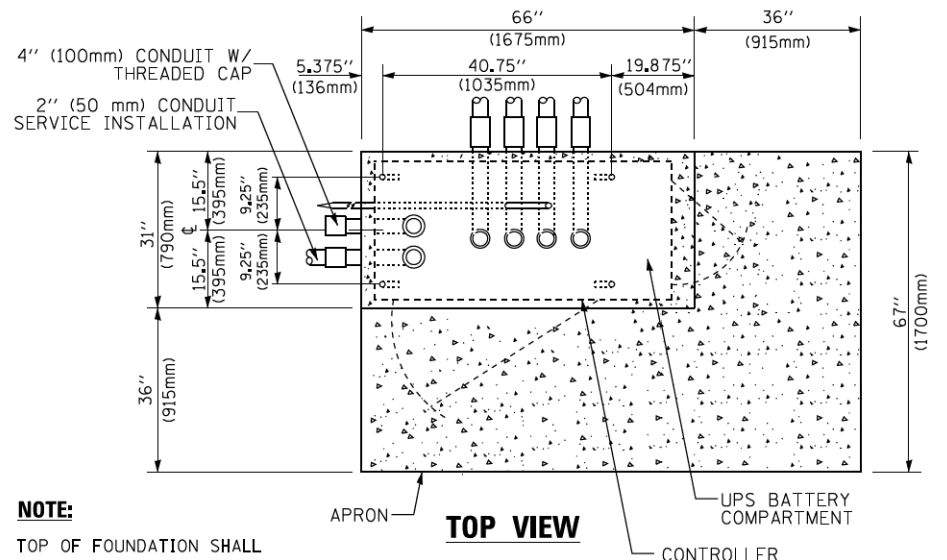
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-01-PW	MCHENRY	1751	508
TS-05		CONTRACT NO. 61E53		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



TOP VIEW

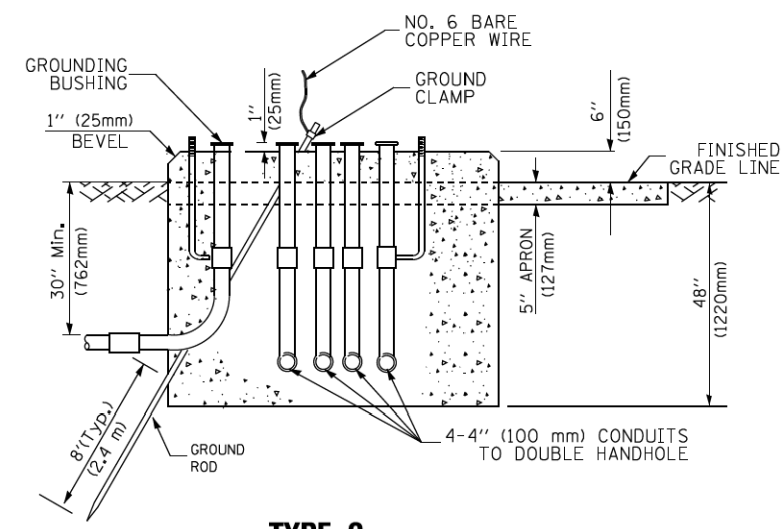


**TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET**

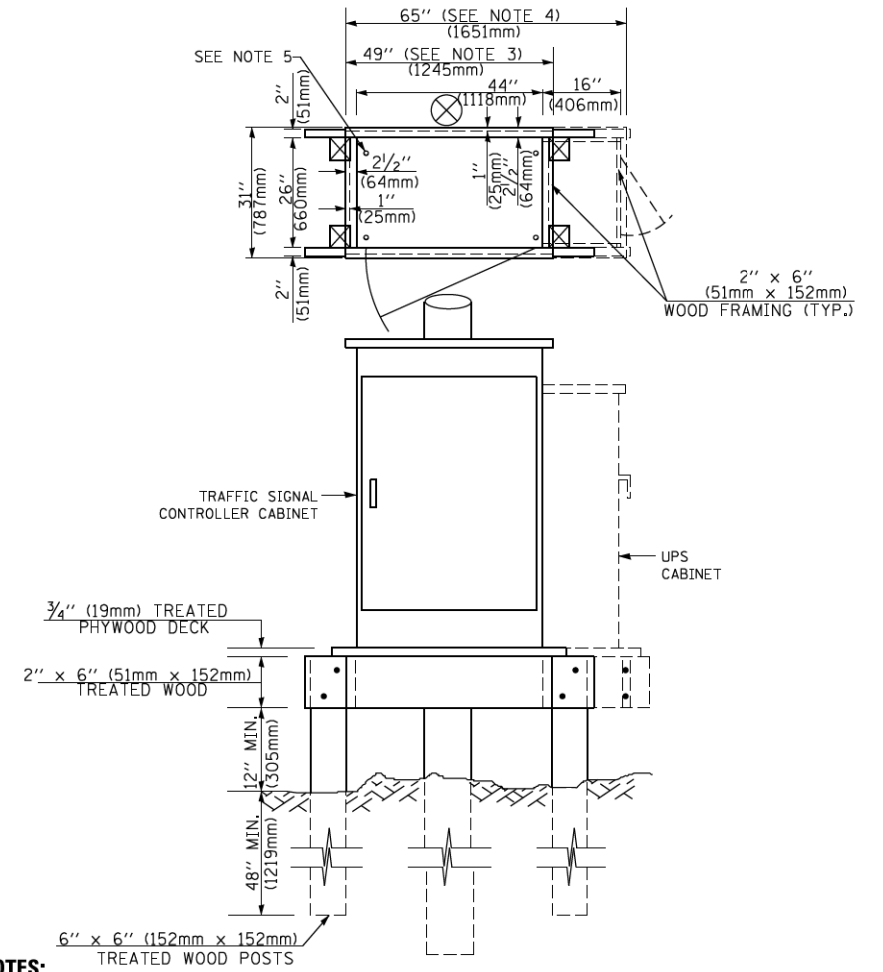


TOP VIEW

NOTE:
TOP OF FOUNDATION SHALL BE HIGHER THAN TOP OF DOUBLE HANDHOLE



**TYPE C
FOR GROUND MOUNTED
SUPER P (TYPE IV) AND SUPER R (TYPE V)
CONTROLLER CABINETS**



NOTES:

1. BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
2. BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 635mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
3. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
4. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
5. DRILLED HOLES THROUGH THE PLATFORM BASE TO MATCH THE CONTROLLER CABINET BOLT TEMPLATE. FASTEN THE CONTROLLER CABINET TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS AND NUTS.
6. FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION.

**TEMPORARY SIGNAL CONTROLLER
WOOD SUPPORT PLATFORM**

CABLE SLACK LENGTH	FEET	METER
HANDHOLE	6.5	2.0
DOUBLE HANDHOLE	13.0	4.0
SIGNAL POST	2.0	0.6
MAST ARM	2.0	0.6
CONTROLLER CABINET	1.5	0.5
FIBER OPTIC AT CABINET	13.0	4.0
ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION)	1.5	0.5
GROUND CABLE (SIGNAL POST, MAST ARM, CABINET)	1.5	0.5
GROUND CABLE (BETWEEN FRAME AND COVER)	5.0	1.6

CABLE SLACK

VERTICAL CABLE LENGTH	FEET	METER
MAST ARM POLE (MAST ARM MOUNTED SIGNAL HEAD) (L = MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END OF ARM)	20.0+L	6.0+L
BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE)	13.0	4.0
PEDESTRIAN PUSH BUTTON	6.0	2.0
SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP	13.5	4.1
SERVICE INSTALLATION POLE MOUNT TO GROUND	13.5	4.1
SERVICE INSTALLATION GROUND MOUNT	6.0	2.0
FOUNDATION (SIGNAL POST, MAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND MOUNT)	3.0	1.0

VERTICAL CABLE LENGTH

FOUNDATION	DEPTH
TYPE A - Signal Post	4'-0" (1.2m)
TYPE C - CONTROLLER W/ UPS	4'-0" (1.2m)
TYPE D - CONTROLLER	4'-0" (1.2m)
SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SQUARE	4'-0" (1.2m)

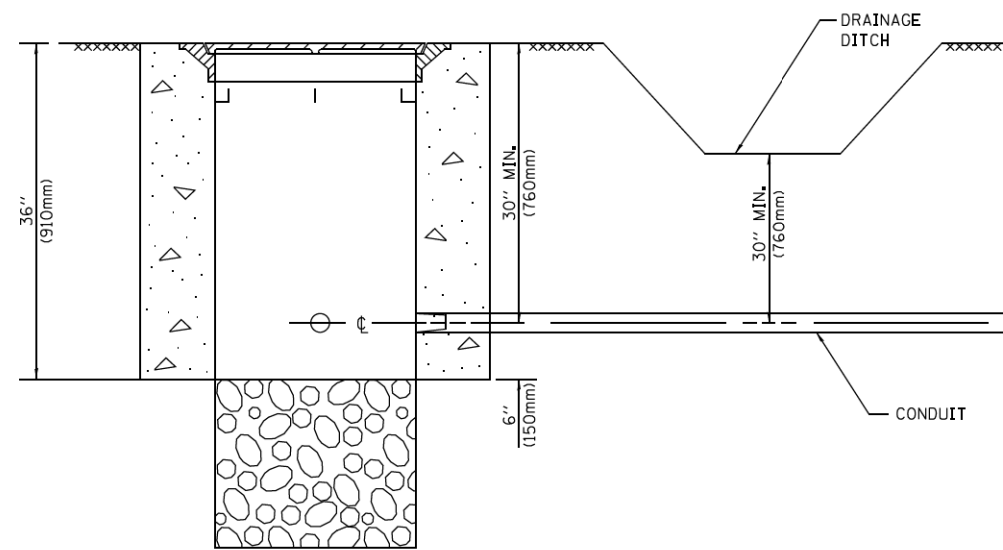
DEPTH OF FOUNDATION

Mast Arm Length	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 55' (16.8 m) and up to 65' (19.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 65' (19.8 m) and less than 75' (22.9 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 75' (22.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

NOTES:

1. These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average Unconfined Compressive Strength (Qu) > 1.0 tsf (100 kpa). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & Structures should be contacted for a revised design if other conditions are encountered.
2. Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
3. Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations.
4. For mast arm assemblies with dual arms refer to state standard 878001..

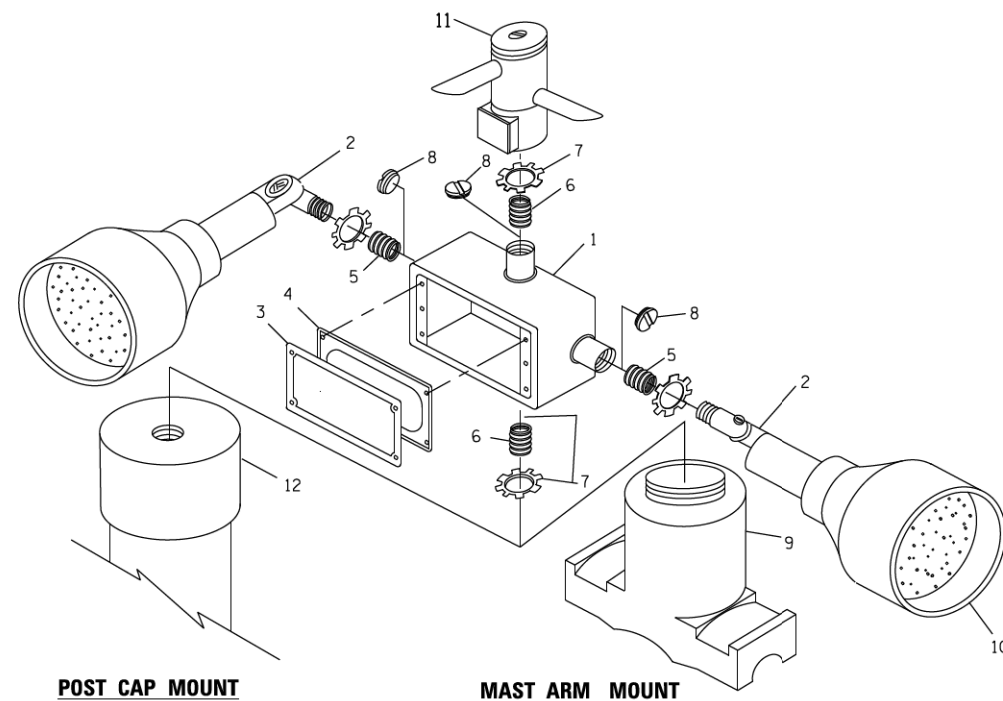
DEPTH OF MAST ARM FOUNDATIONS, TYPE E



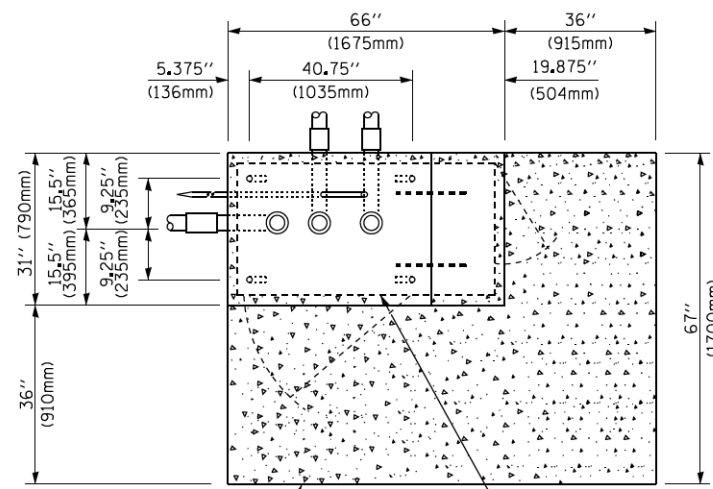
NOTES:

1. CONDUIT DEPTH SHALL BE A MINIMUM OF 30" (760mm) BELOW THE BOTTOM OF THE DRAINAGE DITCH OR ANY SLOPING GROUND
2. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL CONDUIT PLACED UNDER ROADWAY PAVEMENT, MULTI-USE PATHS, SIDEWALKS AND SOIL SURFACES.
3. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL HANDHOLES, HEAVY DUTY HANDHOLES AND DOUBLE HANDHOLES.

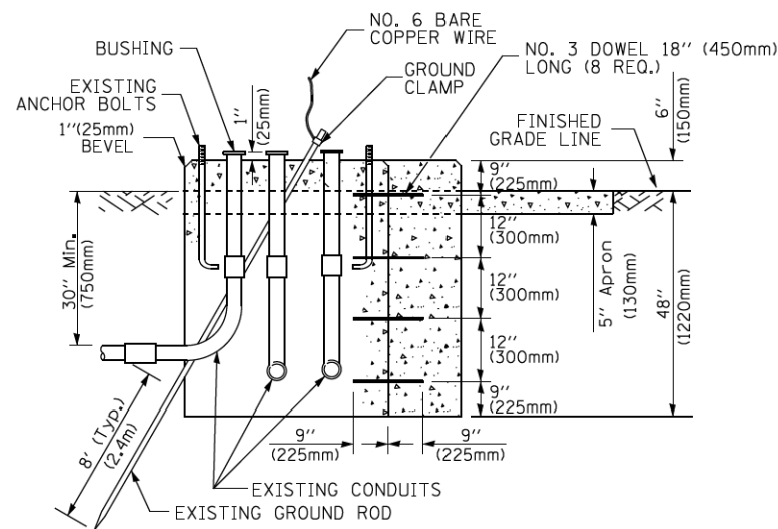
HANDHOLE WITH MINIMUM CONDUIT DEPTH
(NOT TO SCALE)



EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL



TOP VIEW
(NOT TO SCALE)

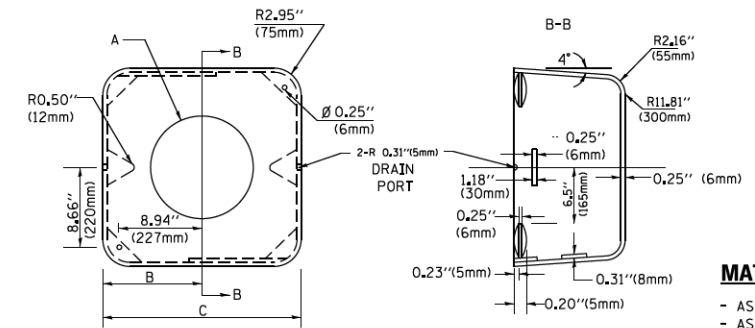


MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION
(NOT TO SCALE)

ITEM NO.	IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU.IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	3/4" (19 mm) CLOSE NIPPLE
7	3/4" (19 mm) LOCKNUT
8	3/4" (19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5.4 m) POST MIN.]

NOTES:

1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
2. ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT
ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT
ITEM #3- BAND-IT SADDLE BRACKET OR EQUIVALENT
3. WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A 3/4" (19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.



MATERIAL:
- ASTM A36 STEEL
- ASTM A-123 HOT DIPPED GALVANIZED

A	B	C	HEIGHT	WEIGHT
VARIABLES	9.5" (241mm)	19" (483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIABLES	10.75" (273mm)	21.5" (546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIABLES	13.0" (330mm)	26" (660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIABLES	18.5" (470mm)	37" (940mm)	7" (178mm) - 12" (300mm)	126 lbs (57 kg)

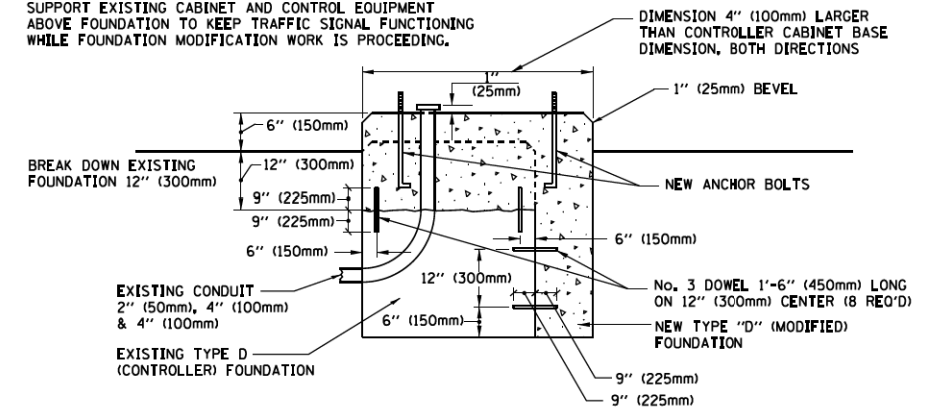
SHROUD

NOTES:

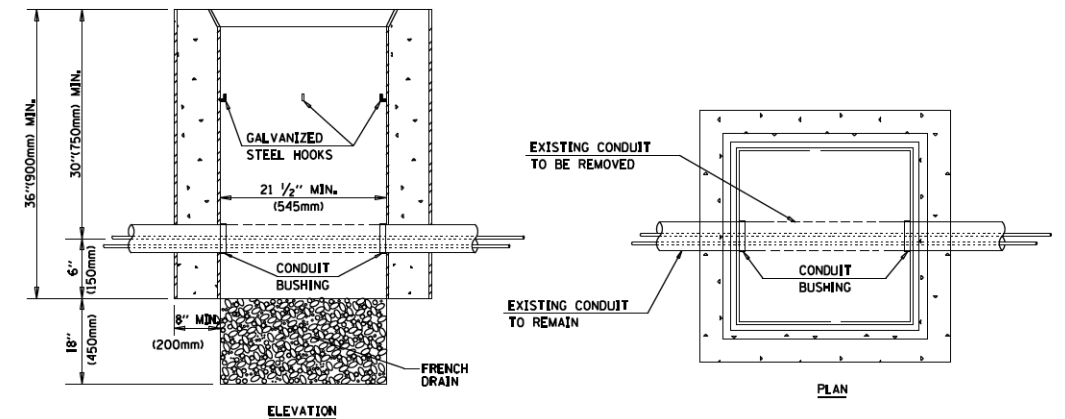
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFY THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

NOTE:

SUPPORT EXISTING CABINET AND CONTROL EQUIPMENT ABOVE FOUNDATION TO KEEP TRAFFIC SIGNAL FUNCTIONING WHILE FOUNDATION MODIFICATION WORK IS PROCEEDING.



MODIFY EXISTING TYPE "D" FOUNDATION



NOTES:

1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCLUDED WITH THE COST OF THE HANDHOLE.

HANDHOLE TO INTERCEPT EXISTING CONDUIT

FILE NAME =	USER NAME = footemj	DESIGNED - DAD	REVISED - DAG 1-1-14
cc:\pwwork\pwwork\footemj\d0108315\ts05.dgn		DRAWN - BCK	REVISED -
		CHECKED - DAD	REVISED -
		DATE - 10-28-09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

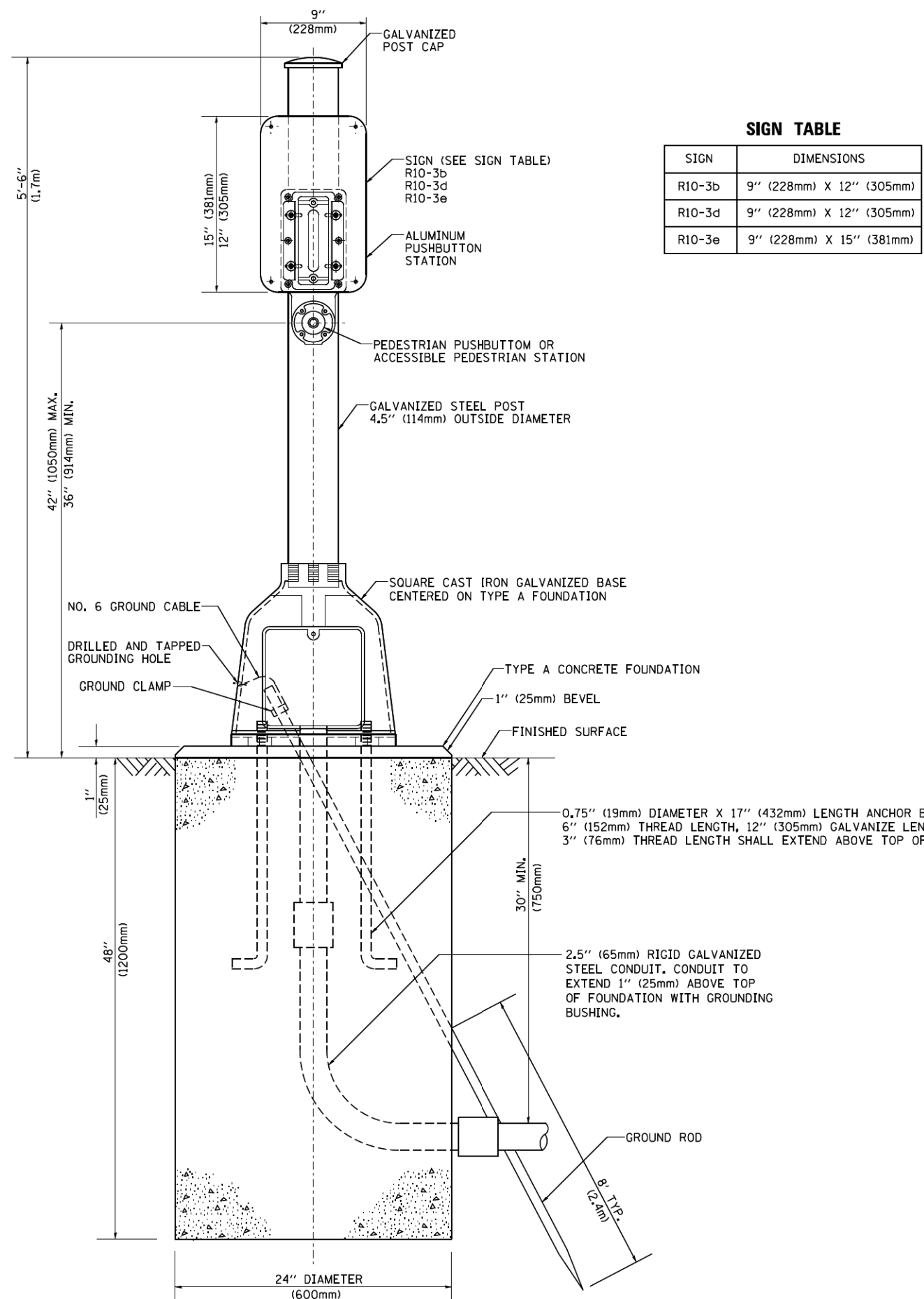
DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE

SHEET NO. 6 OF 7 SHEETS

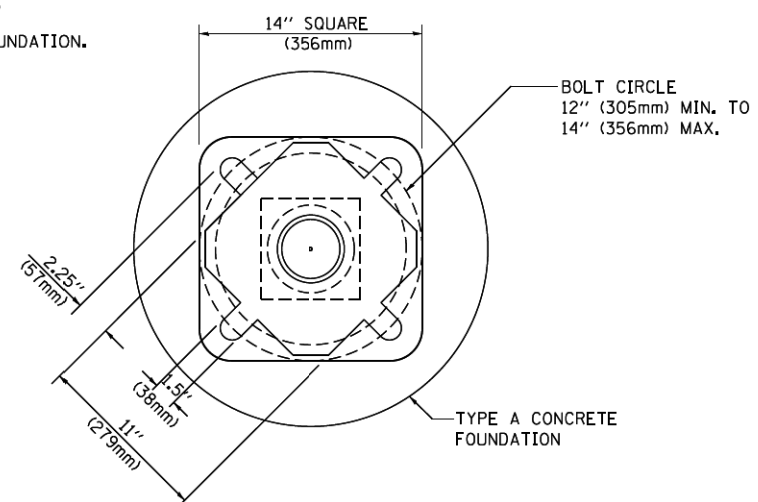
STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-01-PW	MCHENRY	1751	510
	TS-05			CONTRACT NO. 61E53
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



SIGN TABLE

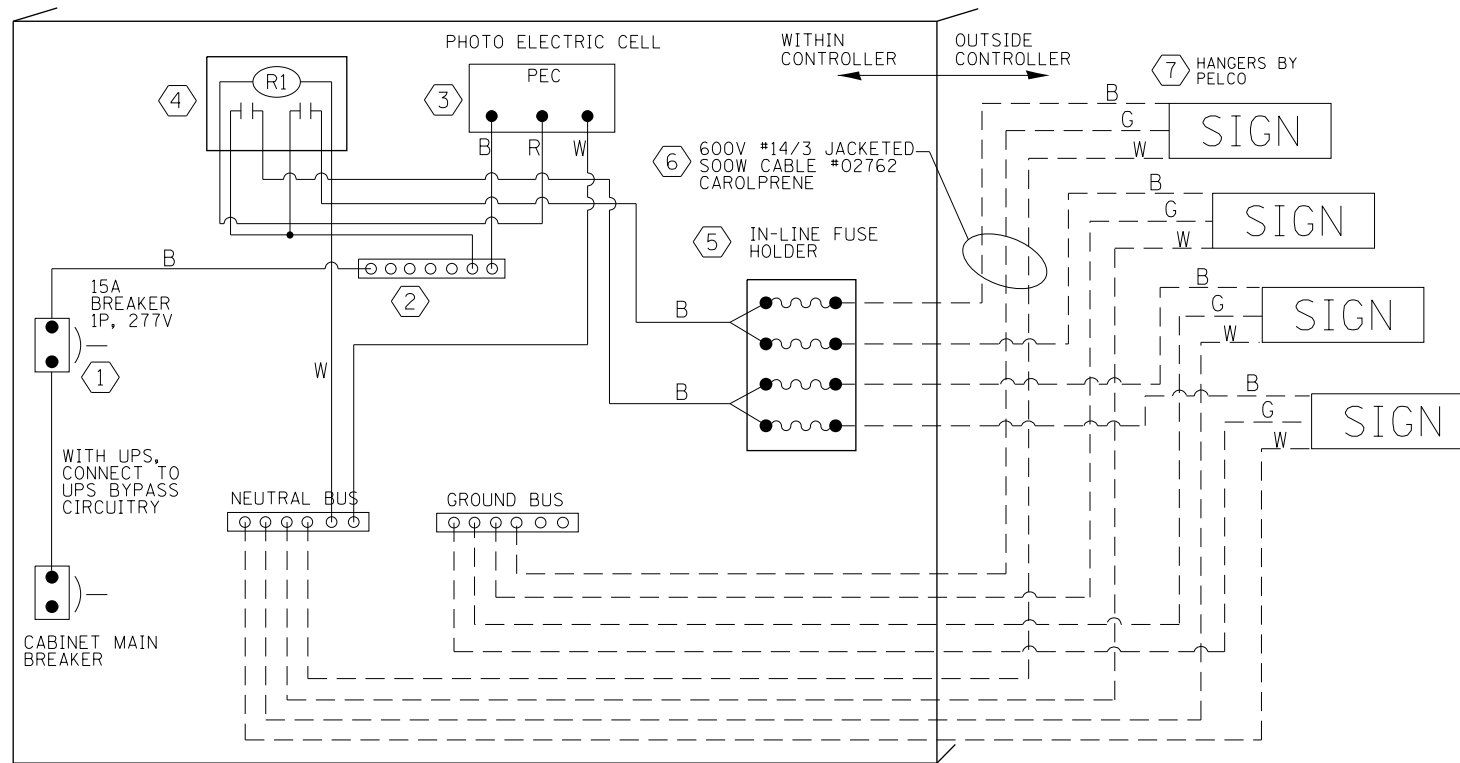
SIGN	DIMENSIONS
R10-3b	9" (228mm) X 12" (305mm)
R10-3d	9" (228mm) X 12" (305mm)
R10-3e	9" (228mm) X 15" (381mm)



BOLT PATTERN

PEDESTRIAN PUSH BUTTON POST, TYPE A

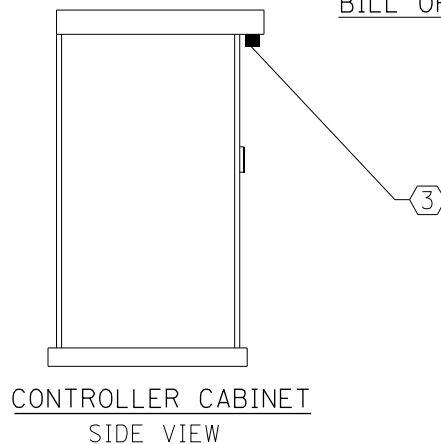
FILE NAME =	USER NAME = footemj	DESIGNED - DAG	REVISED - DAG 1-1-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
cc:\pw\work\p\dot\footemj\d0108315\ts05.dgn	PLOT SCALE = 50.0000 / 1 in.	DRAWN - GND	REVISED -		SCALE: NONE	SHEET NO. 7 OF 7 SHEETS	STA.	TO STA.	336	06-00329-01-PW	MCHENRY	1751	511
PLOT DATE = 1/13/2014	DATE - 10/1/2012	CHECKED - DAD	REVISED -					TS-05		CONTRACT NO. 61E53			
		DATE - 10/1/2012	REVISED -		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT								



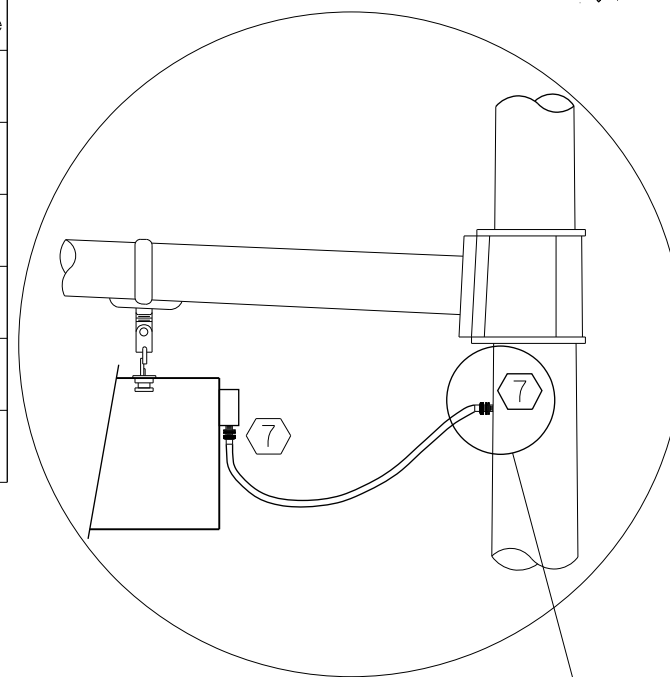
LED SIGN WIRING DETAIL

DESCRIPTION	MANUFACTURER	MODEL	NOTES
① CIRCUIT BREAKER		15 AMPERE	Molded case, Thermal Mag. min. R.I. of 14K R.M.S. symmetrical ampere of 277V.
② TERMINAL BLOCK	MARATHON	1502 DJSV	
③ PHOTO ELECTRIC CONTROL	FISHER PIERCE	B124-1.5-07762	
④ CONTROL RELAY	SQUARE D	8501X020V02	BOLT ON W/SCREW TERMINAL
⑤ INLINE FUSE HOLDER WITH 5 AMP FUSE	BUSSMAN	S-8000 BK/S-8-3-4-R	
⑥ ELECTRIC CABLE, NO. 14, 3/C (BLACK, WHITE, GREEN)	CAROLPRENE/SOOW	02762	
⑦ SIGN MOUNTING HARDWARE	PELCO	SE-5015	S.S. HARDWARE

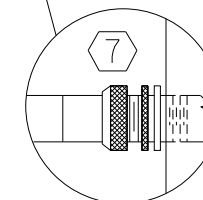
BILL OF MATERIALS



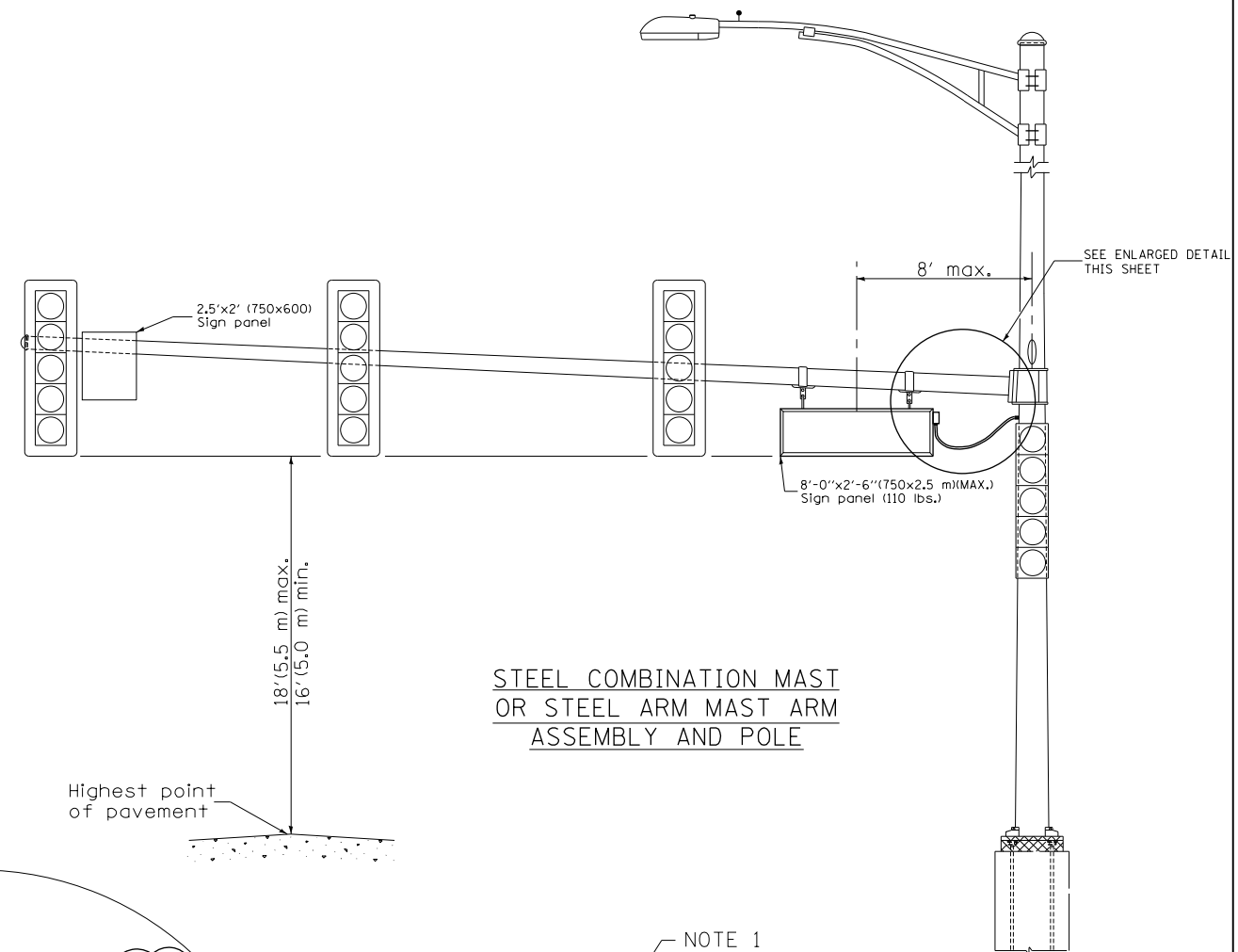
CONTROLLER CABINET SIDE VIEW



L.E.D. SIGN ENLARGED CABLE CONNECTOR DETAIL



L.E.D. SIGN ENLARGED CABLE CONNECTOR DETAIL



STEEL COMBINATION MAST OR STEEL ARM MAST ARM ASSEMBLY AND POLE



LED ILLUMINATED SIGN PANEL

8'0 x 2'6" (750 mm x 2.5 mm)(MAX)
C or D FONT

NOTES:

- SIGNS SHALL BE DUAL SIDED. FRONT AND BACK OF SIGN WILL BE THE SAME.
- SIGNS SHALL NOT BE ENERGIZED WHEN TRAFFIC SIGNALS ARE POWERED BY THE UPS. THE SIGNS SHALL BE CONNECTED TO THE UPS BYPASS CIRCUITRY.
- ALL WIRING WITHIN THE CABINET SHALL BE COLOR CODED AS INDICATED:
R = RED BL = BLUE W = WHITE
B = BLACK Y = YELLOW G = GREEN
- ALL 120 VOLT SYSTEM AND ALL CONTROL WIRING SHALL BE #12AWG STRANDED UNLESS OTHERWISE INDICATED.
- ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.

NOTES:

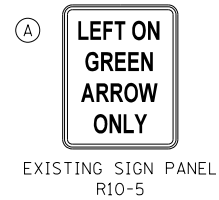
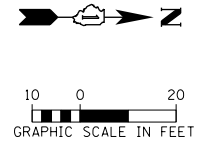
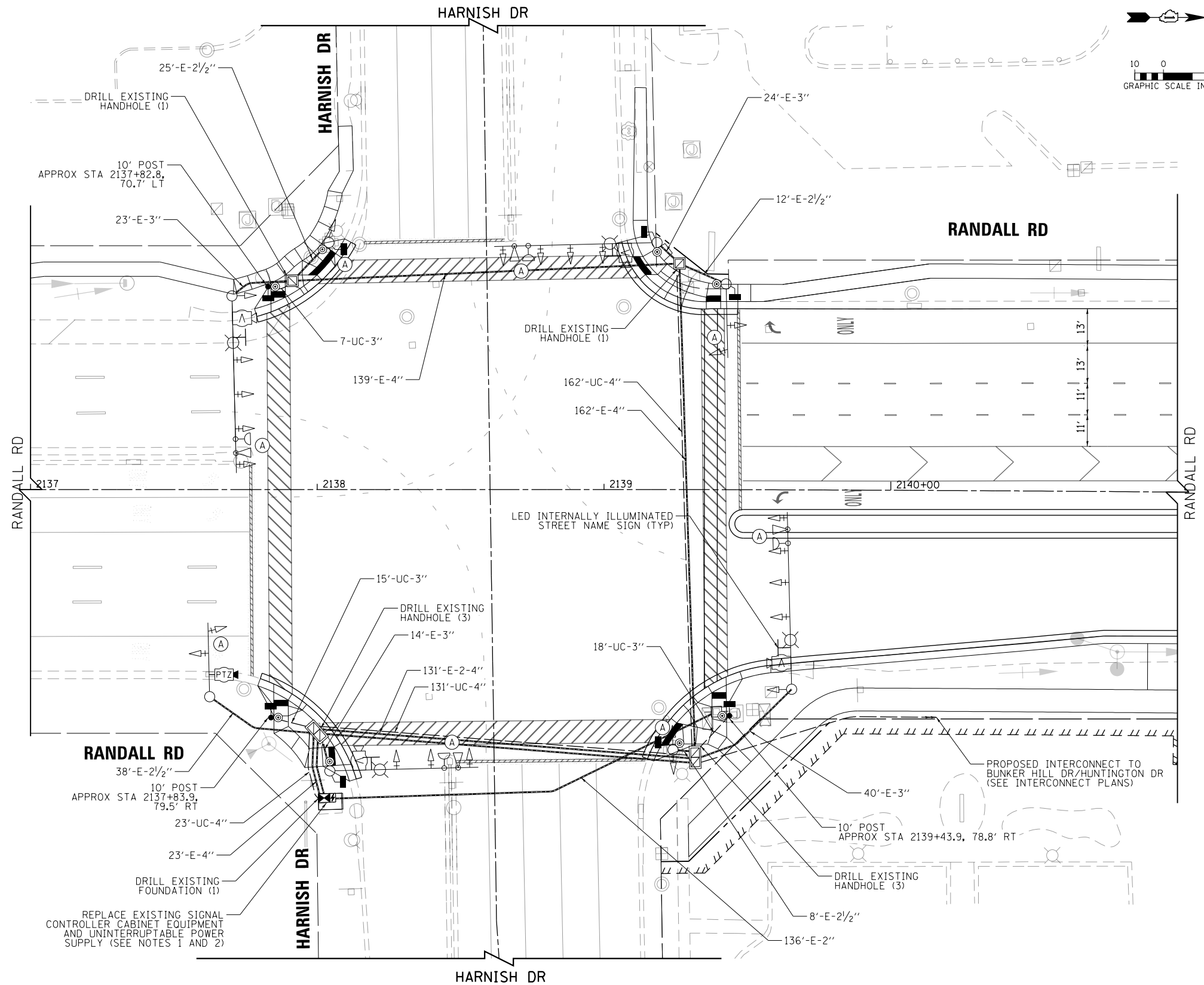
1. THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.
2. REMOVE EXISTING SIGNAL CABINET, ALL EQUIPMENT CONTAINED THEREIN AND UNINTERRUPTABLE POWER SUPPLY PER REMOVAL NOTES. INSTALL NEW FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL AND UNINTERRUPTABLE POWER SUPPLY, SPECIAL PER THE SPECIFICATIONS FOR REMOVE AND REPLACE TRAFFIC SIGNAL CABINET AND EQUIPMENT.

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND DELIVER ALL EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

AGENCY: MCHENRY COUNTY - DIVISION OF TRANSPORTATION

- 1 EACH CONTROLLER AND CABINET (COMPLETE)
- 1 EACH UNINTERRUPTABLE POWER SUPPLY



USER NAME = mrc155	DESIGNED - BTW	REVISED -
FILENAME = D:\NNNN-sht-TSP-Install-Harnish	DRAWN - BTW	REVISED -
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PLOT DATE = 4/25/2018	DATE - 4-26-2018	REVISED -

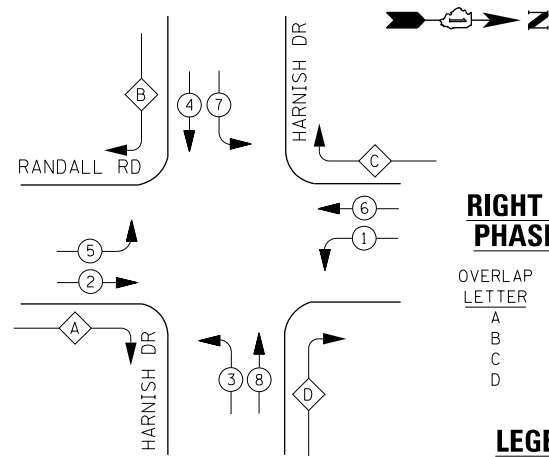
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODIFICATION PLAN
RANDALL RD AND HARNISH DR**

SCALE: 1" = 20' SHEET 12 OF 66 SHEETS STA 2137+00 TO STA 2141+00

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-01-PW	MCHENRY	1751	514
CONTRACT NO.			61E53	
ILLINOIS FED. AID PROJECT				

EXISTING CONTROLLER SEQUENCE



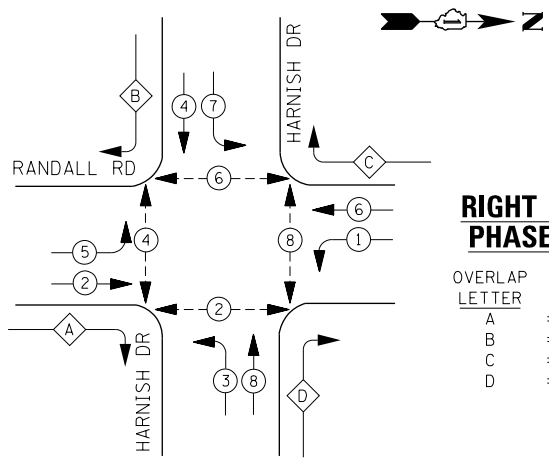
RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	= 2	+ 3
B	= 4	+ 5
C	= 6	+ 7
D	= 8	+ 1

LEGEND:

- ← (circle with star) → PROTECTED PHASE
- ← (circle with star and dash) → PROTECTED/PERMITTED PHASE
- ← (circle with star and arrow) → PEDESTRIAN PHASE
- ← (circle with star and OL) → OVERLAP

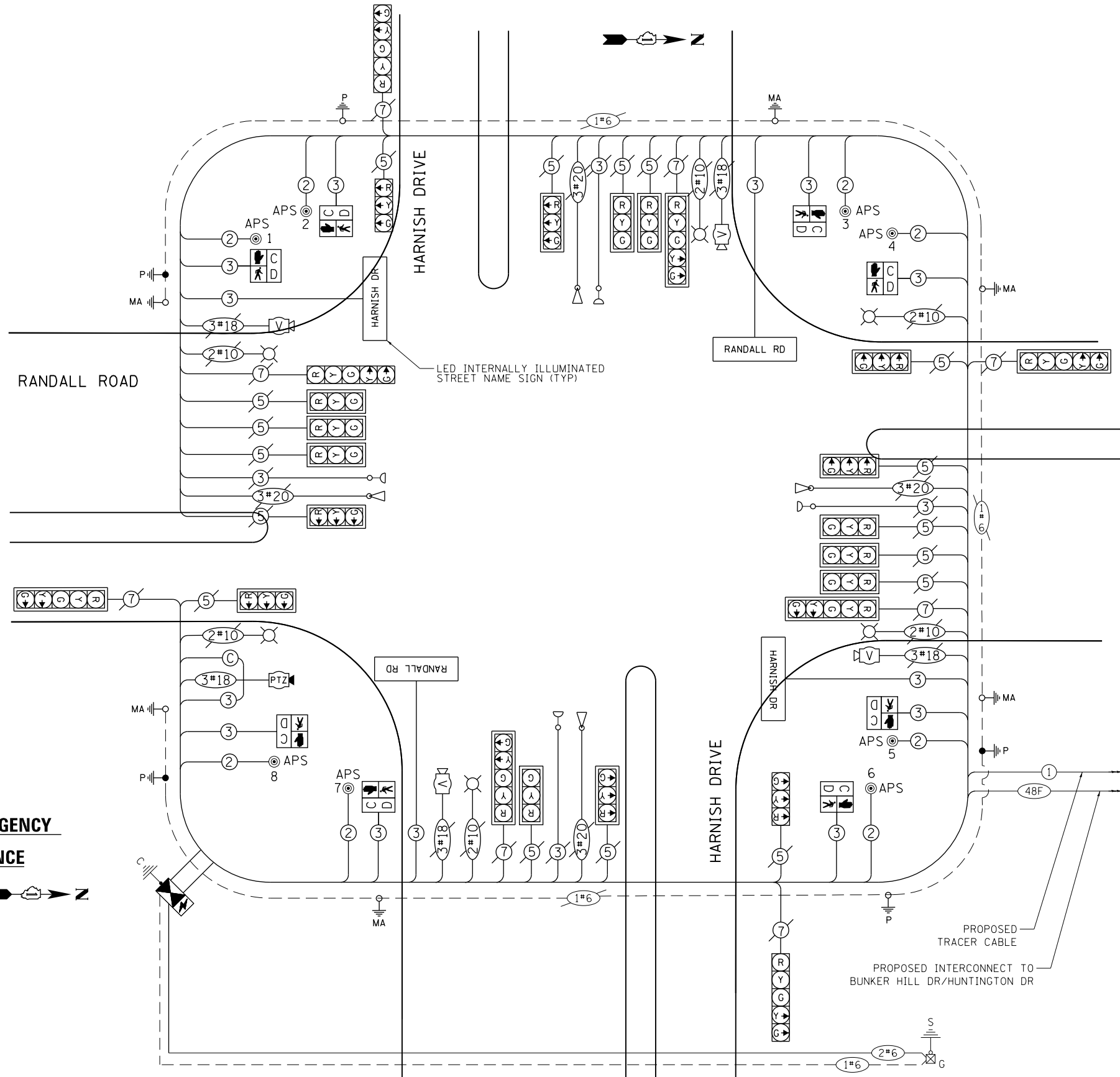
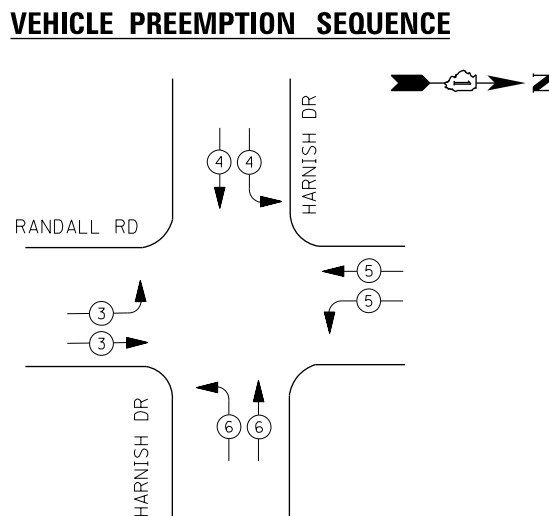
PROPOSED CONTROLLER SEQUENCE



RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	= 2	+ 3
B	= 4	+ 5
C	= 6	+ 7
D	= 8	+ 1

EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



IDOT Traffic Signal Installation Electrical Service Requirements				
Type	Number of Lamps	LED Wattage	% Operations	Total Wattage
Signal Red	25	11	50%	137.5
Signal Yellow	25	20	5%	25.0
Signal Green	25	12	45%	135.0
Prot-Perm Arrow	16	10	10%	16.0
Ped. Signal	8	20	100%	160.0
Controller	1	100	100%	100.0
UPS	1	25	100%	25.0
Video System		115	100%	
Blank-Out Sign		25	5%	
Flasher			50%	
Street Name Sign	4	120	50%	240.0
Luminaire		285	50%	
Total Intersection Wattage				838.5

ENERGY COSTS TO:
 VILLAGE OF ALGONQUIN
 2200 HARNISH DRIVE
 ALGONQUIN, ILLINOIS 60102
 ENERGY SUPPLY: CONTACT: _____
 PHONE: (____) _____
 COMPANY: COMMONWEALTH EDISON
 ACCOUNT NUMBER: _____



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, SCHEDULE OF QUANTITIES, PHASE DESIGNATION DIAGRAM
RANDALL RD AND HARNISH DR

SCALE: NONE SHEET 13 OF 66 SHEETS STA TO STA

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-01-PW	MCHENRY	1751	515
CONTRACT NO.			61E53	

ILLINOIS FED. AID PROJECT

NOTES:

1. THE TEMPORARY TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.
2. BARREL MOUNTED POSTS WITH PEDESTRIAN SIGNAL HEADS AND PUSH-BUTTONS SHALL BE PROVIDED FOR ALL CROSSWALKS THAT ARE ACTIVE DURING THE CONSTRUCTION STAGE. BARREL MOUNTED POSTS SHALL BE RELOCATED AS NEEDED, TO ENSURE THAT ALL ACTIVE PEDESTRIAN SIGNALS AND PUSH-BUTTONS ARE LOCATED PER DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS. REFER TO NOTES ON TEMPORARY CABLE PLAN FOR ACTIVE PEDESTRIAN PHASES BY CONSTRUCTION STAGE. INACTIVE PEDESTRIAN SIGNAL HEADS SHALL BE DE-ENERGIZED AND BAGGED. INACTIVE PUSH-BUTTONS SHALL BE DE-ENERGIZED AND COVERED OR REMOVED.

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND DELIVER ALL EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

AGENCY: ALGONQUIN - LAKE IN THE HILLS FIRE PROTECTION DISTRICT

- 2 EACH LIGHT DETECTOR
- 2 EACH CONFIRMATION BEACON
- 1 EACH LIGHT DETECTOR AMPLIFIER

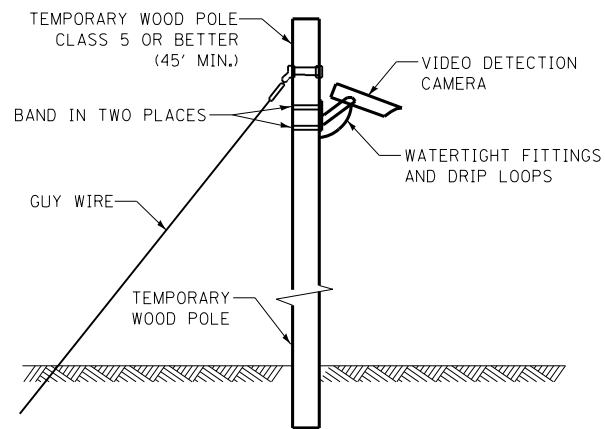
THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND DELIVER ALL EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

AGENCY: MCHENRY COUNTY - DIVISION OF TRANSPORTATION

- 1 EACH CONTROLLER AND CABINET (COMPLETE)
- 1 EACH UNINTERRUPTABLE POWER SUPPLY

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 10 EACH 3-SECTION SIGNAL HEAD
- 6 EACH 5-SECTION SIGNAL HEAD
- 10 EACH TRAFFIC SIGNAL BACKPLATE
- 6 EACH PEDESTRIAN SIGNAL HEAD
- 6 EACH PEDESTRIAN PUSH-BUTTON
- 4 EACH STEEL MAST ARM AND POLE
- 4 EACH TRAFFIC SIGNAL POST
- 1 EACH SERVICE INSTALLATION

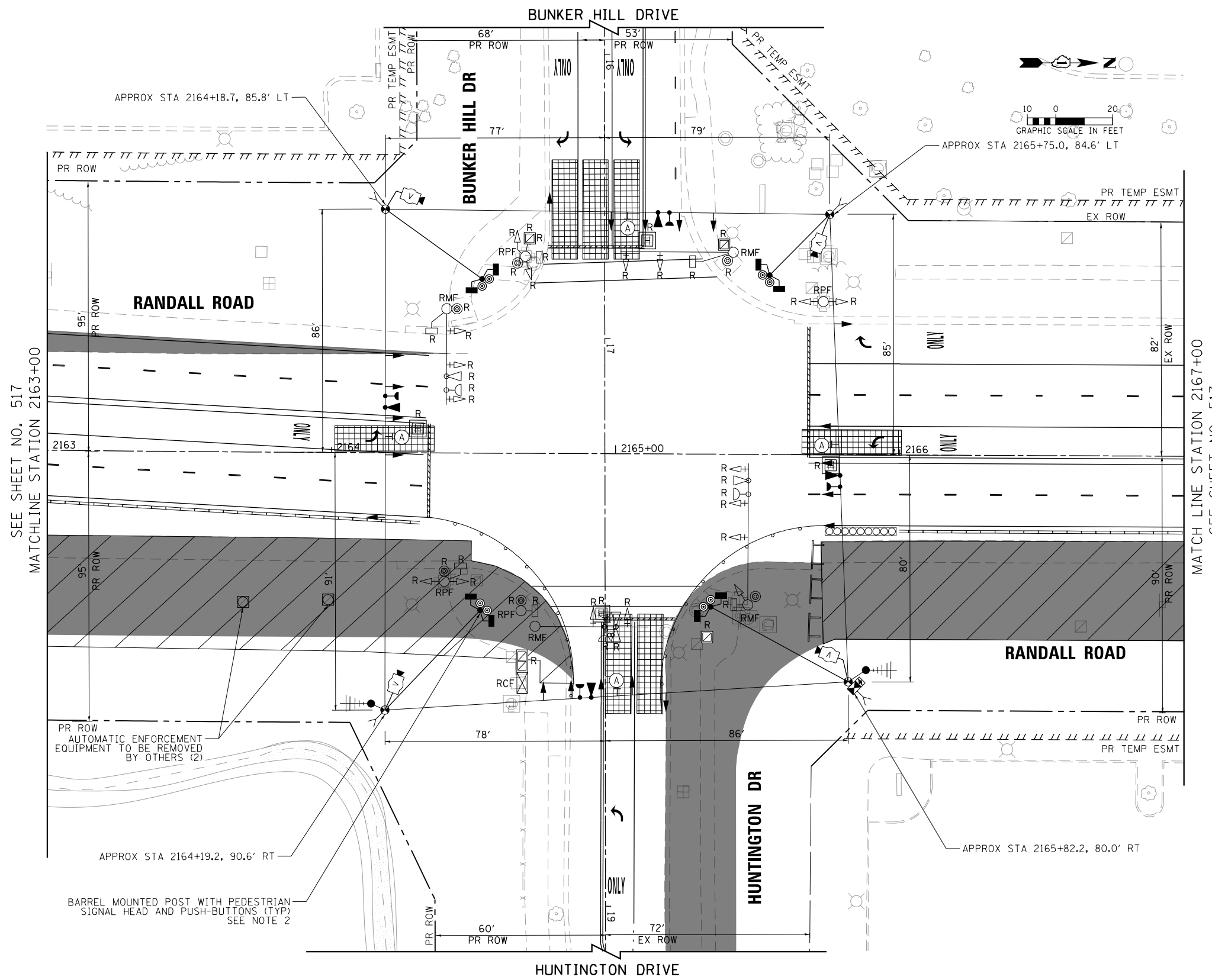


TEMPORARY VIDEO DETECTION MOUNTING DETAIL (NOT TO SCALE)

LEFT ON GREEN ARROW ONLY

R10-5
4 REQUIRED
30"X36"
SIGN PANEL TYPE 1

Ⓐ
INCLUDED IN THE COST OF TEMPORARY TRAFFIC SIGNAL INSTALLATION



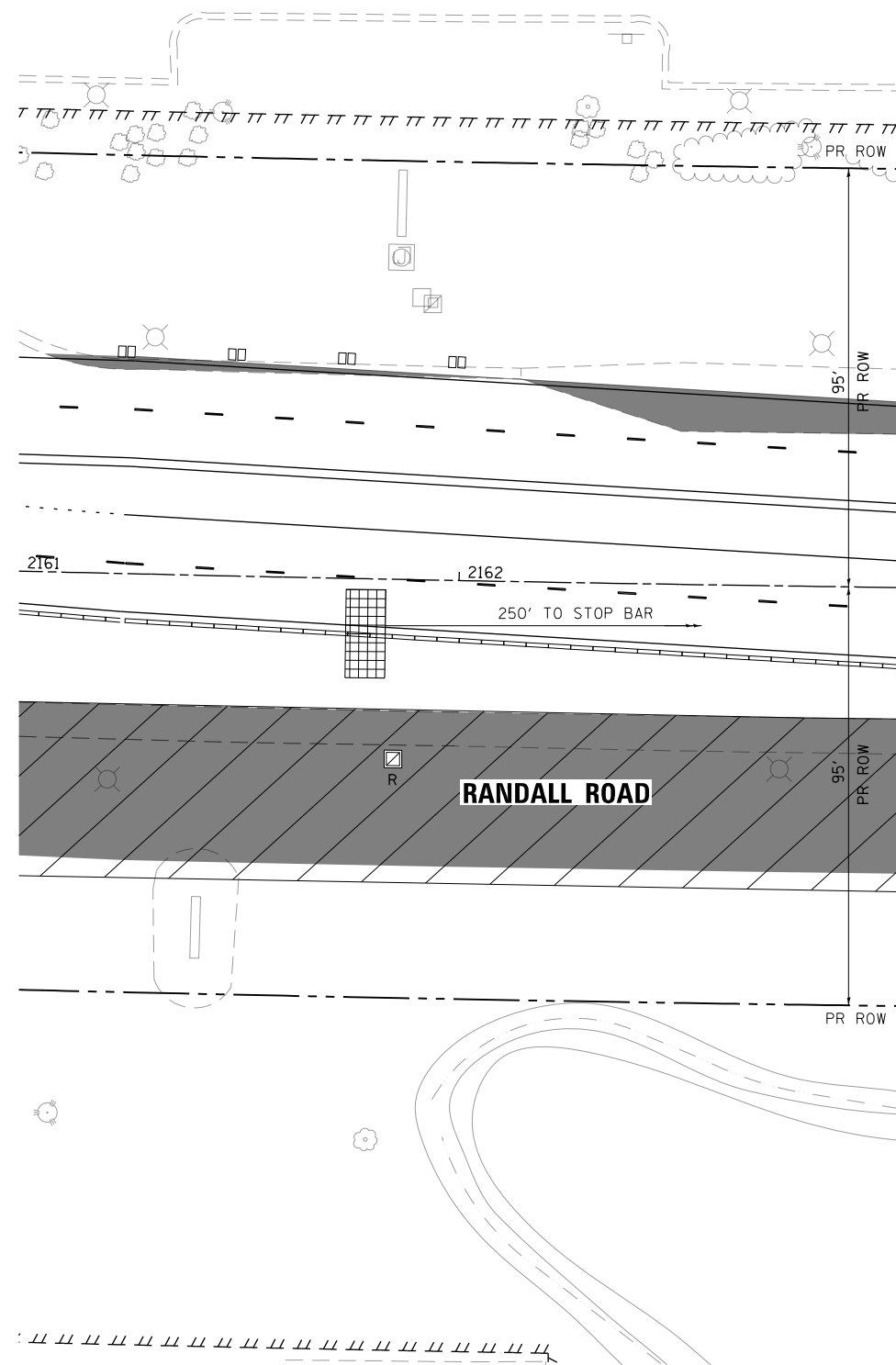
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PLOT SCALE = 40.0000' / in.	CHECKED - GR	REVISED -
PLOT DATE = 4/25/2018	DATE - 4-26-2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

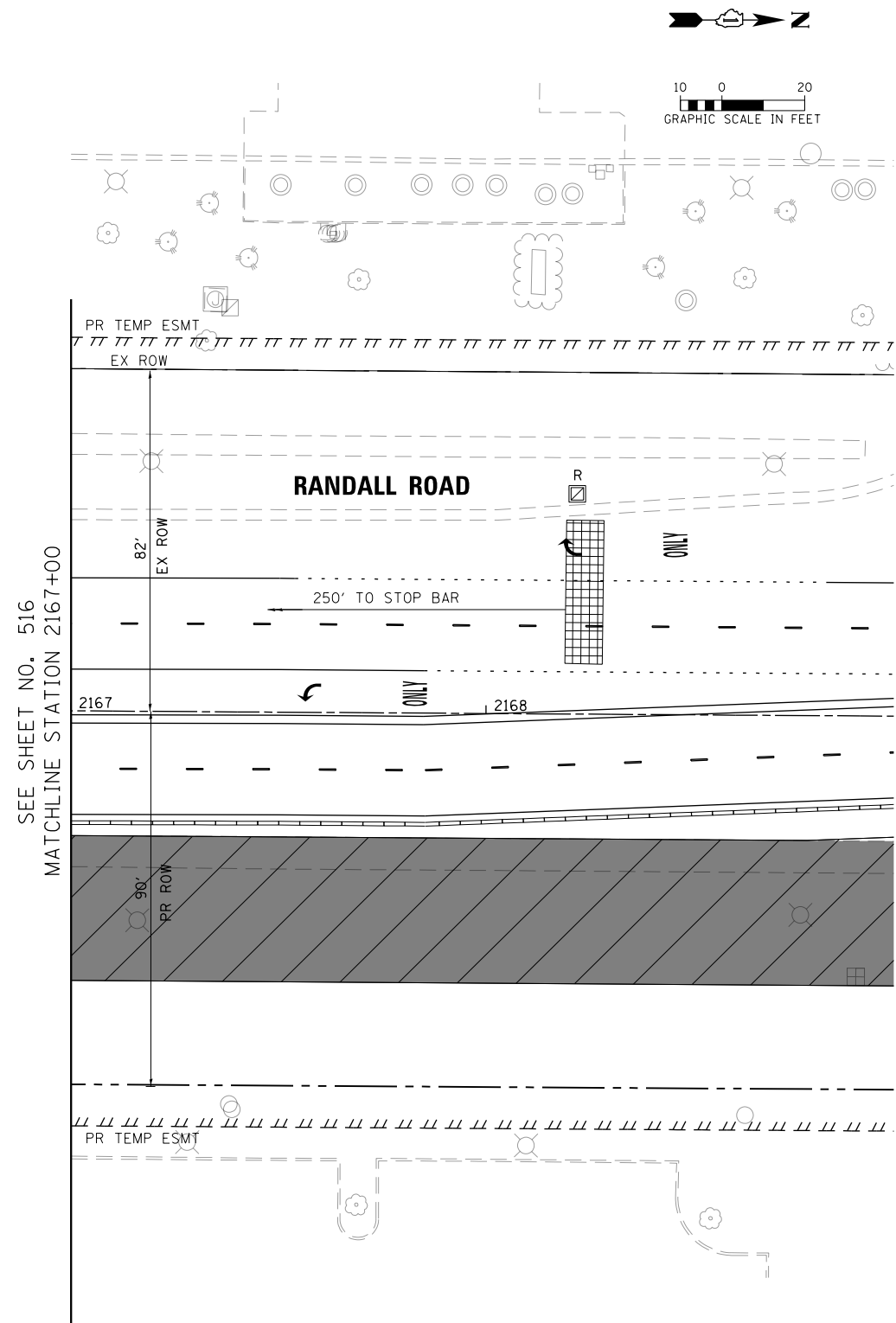
**TEMPORARY TRAFFIC SIGNAL INSTALLATION & REMOVAL PLAN
RANDALL RD AND BUNKER HILL DR / HUNTINGTON DR**

SCALE: 1" = 20' SHEET 14 OF 66 SHEETS STA 2163+00 TO STA 2167+00

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-01-PW	MCHENRY	1751	516
CONTRACT NO.			61E53	
ILLINOIS FED. AID PROJECT				



MATCH LINE STATION 2163+00
SEE SHEET NO. 516



SEE SHEET NO. 516
MATCHLINE STATION 2167+00

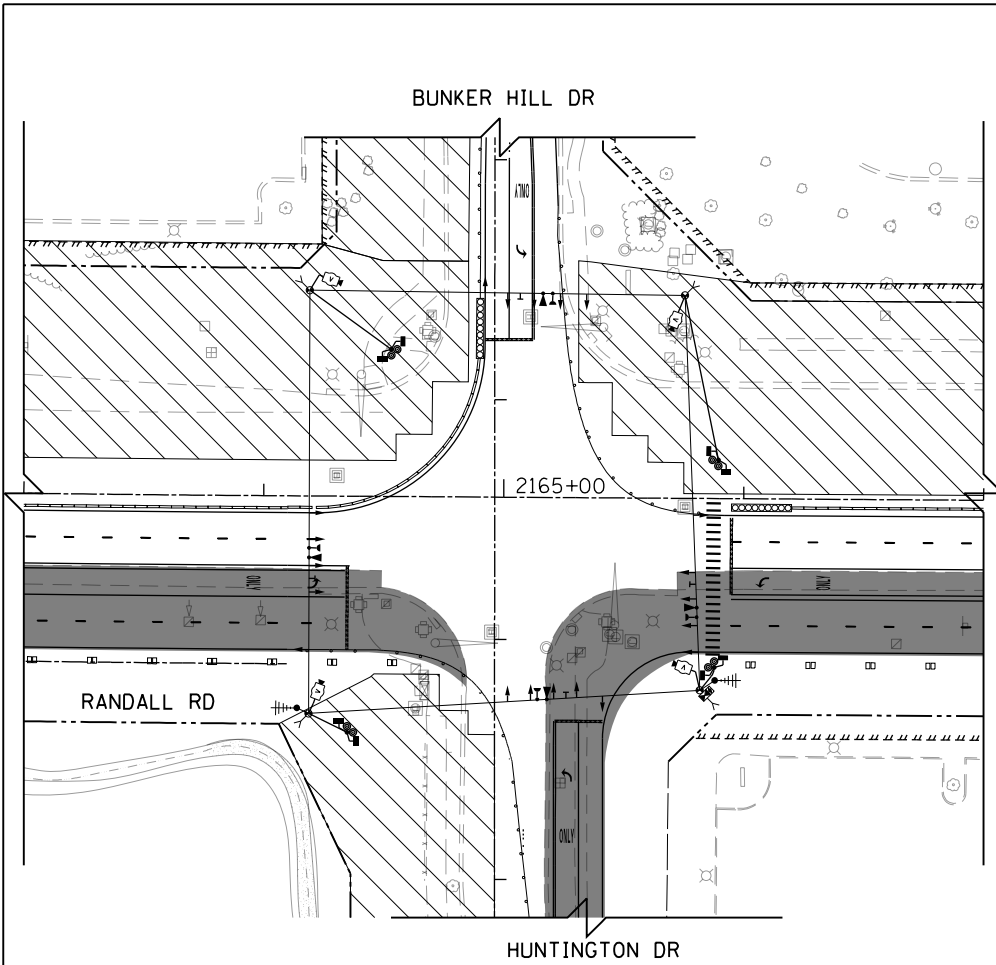
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

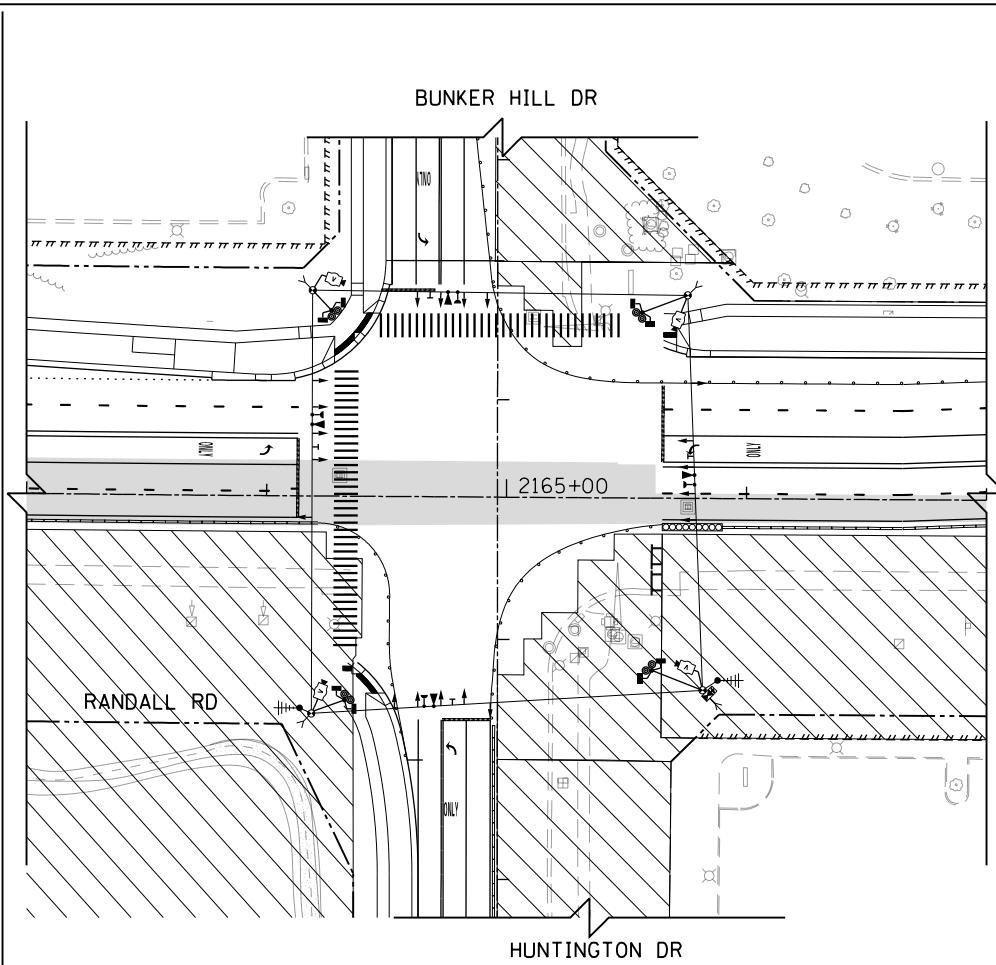
**TEMPORARY TRAFFIC SIGNAL INSTALLATION & REMOVAL PLAN
RANDALL RD AND BUNKER HILL DR / HUNTINGTON DR**

SCALE: 1" = 20' SHEET 15 OF 66 SHEETS STA TO STA

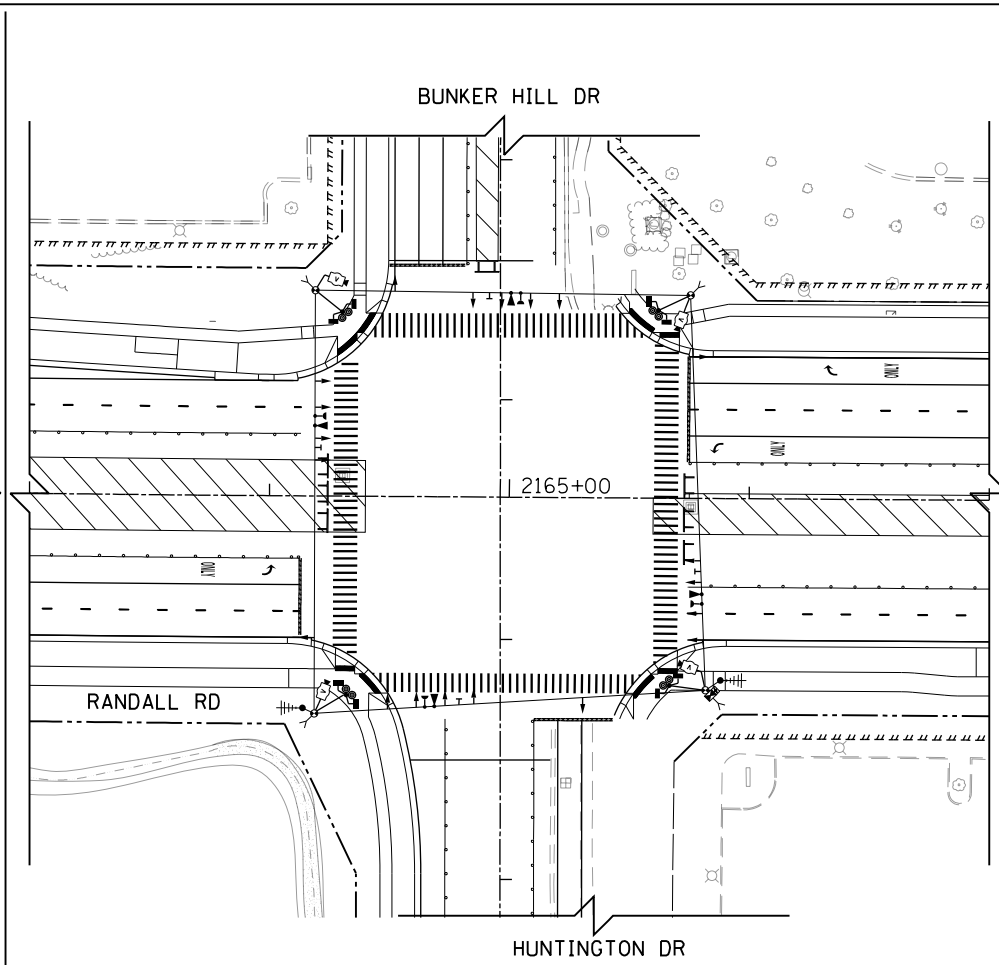
FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-01-PW	MCHENRY	1751	517
CONTRACT NO.			61E53	
ILLINOIS FED. AID PROJECT				



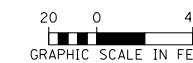
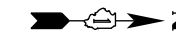
TEMPORARY TRAFFIC SIGNAL STAGE 1



TEMPORARY TRAFFIC SIGNAL STAGE 2



TEMPORARY TRAFFIC SIGNAL STAGE 3



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PLOT DATE = 4/25/2018	DATE - 4-26-2018	REVISED -

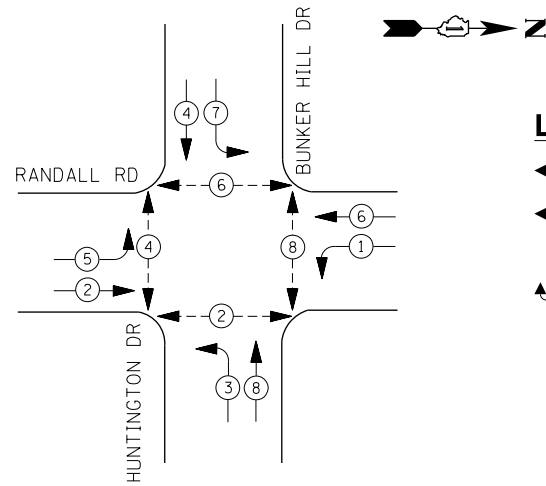
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL M.O.T. STAGING PLAN
RANDALL RD AND BUNKER HILL DR / HUNTINGTON DR

SCALE: 1" = 40' SHEET 16 OF 66 SHEETS STA TO STA

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-01-PW	MCHENRY	1751	518
CONTRACT NO.			61E53	
ILLINOIS FED. AID PROJECT				

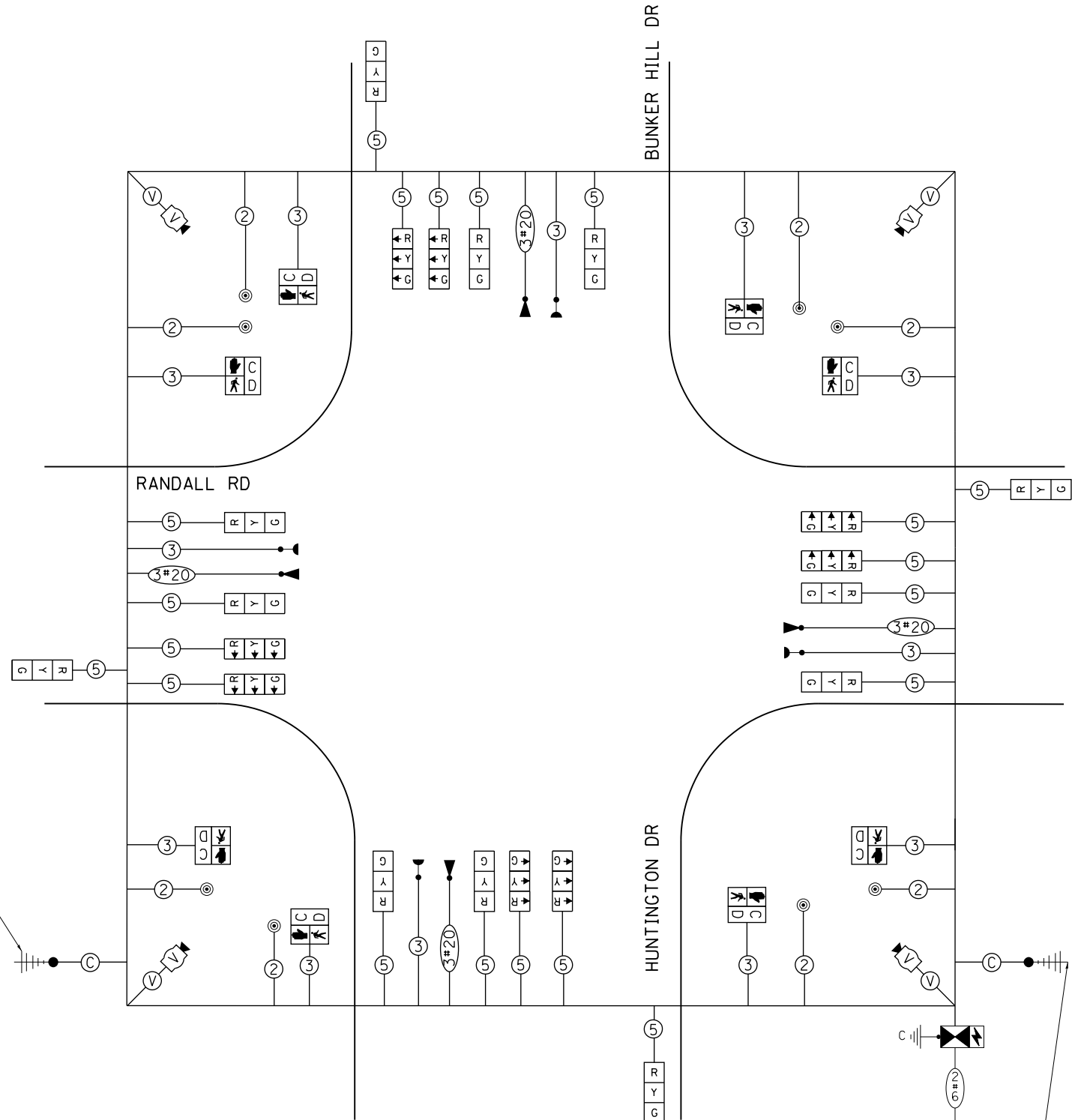
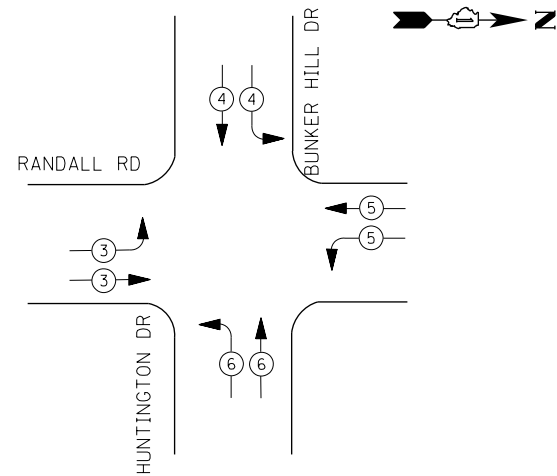
TEMPORARY CONTROLLER SEQUENCE



LEGEND:

- ← * → PROTECTED PHASE
- - * - - PROTECTED/PERMITTED PHASE
- ← * → PEDESTRIAN PHASE
- ← * OL → OVERLAP

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE



TEMPORARY CABLE PLAN (ALL STAGES)

IDOT Traffic Signal Installation Electrical Service Requirements

Type	Number of Lamps	LED Wattage	% Operations	Total Wattage
Signal	Red	20	50%	110.0
	Yellow	20	5%	20.0
	Green	20	45%	108.0
Prot-Perm Arrow		10	10%	
Ped. Signal	8	20	100%	160.0
Controller	1	100	100%	100.0
UPS	1	25	100%	25.0
Video System	1	150	100%	150.0
Blank-Out Sign		25	5%	
Flasher			50%	
Street Name Sign		120	50%	
Luminaire			50%	
Total Intersection Wattage				673.0

ENERGY COSTS TO:

VILLAGE OF ALGONQUIN
2200 HARNISH DRIVE
ALGONQUIN, ILLINOIS 60102

ENERGY SUPPLY: CONTACT: _____
PHONE: (____) _____
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: _____

NOTES:

1. PEDESTRIAN PHASE 2, 4 AND 6 TO BE INACTIVE DURING MOT STAGE 1.
2. PEDESTRIAN PHASE 2 AND 8 TO BE INACTIVE DURING MOT STAGE 2.
3. PEDESTRIAN PHASE 6 AND 8 TO BE INACTIVE DURING MOT STAGE 3.
4. DE-ENERGIZE AND BAG INACTIVE PEDESTRIAN SIGNAL HEADS. COVER OR REMOVE INACTIVE PEDESTRIAN PUSH-BUTTONS.

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



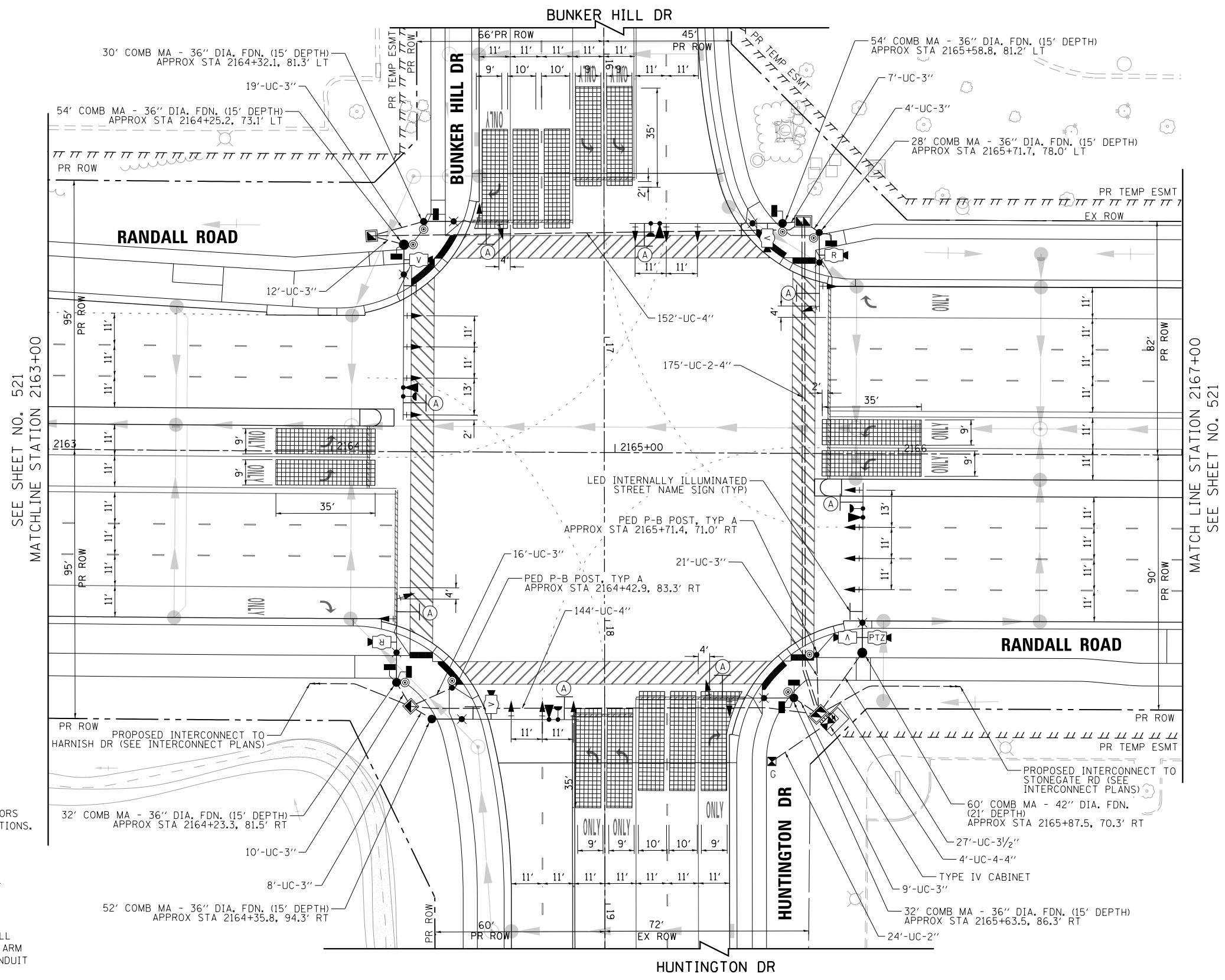
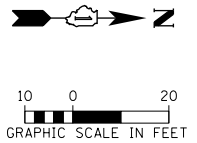
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY CABLE PLAN, PHASE DESIGNATION DIAGRAM
RANDALL RD AND BUNKER HILL DR / HUNTINGTON DR**

SCALE: NONE SHEET 17 OF 66 SHEETS STA TO STA

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-01-PW	MCHENRY	1751	519
			CONTRACT NO. 61E53	

ILLINOIS FED. AID PROJECT



(A) **LEFT ON GREEN ARROW ONLY**
 R10-5
 30"x36"
 SIGN PANEL - TYPE 1
 (8 REQUIRED)

NOTES:

1. THE MOUNTING LOCATIONS OF THE VIDEO AND RADAR DETECTORS WILL BE DETERMINED PER THE MANUFACTURER'S RECOMMENDATIONS.
 2. LUMINAIRE ARMS ON ALL TRAFFIC SIGNAL COMBINATION MAST ARM ASSEMBLY AND POLES SHALL BE 20 FT.
 3. THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.
 4. SEPARATE CONDUITS FOR LIGHTING AND TRAFFIC SIGNALS SHALL BE INSTALLED IN THE FOUNDATIONS FOR COMBINATION MAST ARM ASSEMBLY AND POLE. SEE LIGHTING PLANS FOR LIGHTING CONDUIT DETAIL.
 5. VIDEO DETECTION SHALL BE USED AT THE FOLLOWING LOCATIONS:
 - STOP BAR DETECTION ON EASTBOUND AND WESTBOUND APPROACHES (BUNKER HILL RD AND HUNTINGTON DR)
 - STOP BAR DETECTION ON NORTHBOUND AND SOUTHBOUND LEFT TURN LANES (RANDALL RD)
- RADAR DETECTION SHALL BE USED AT THE FOLLOWING LOCATIONS:
- ADVANCE DETECTION ON NORTHBOUND AND SOUTHBOUND THROUGH LANES (RANDALL RD)



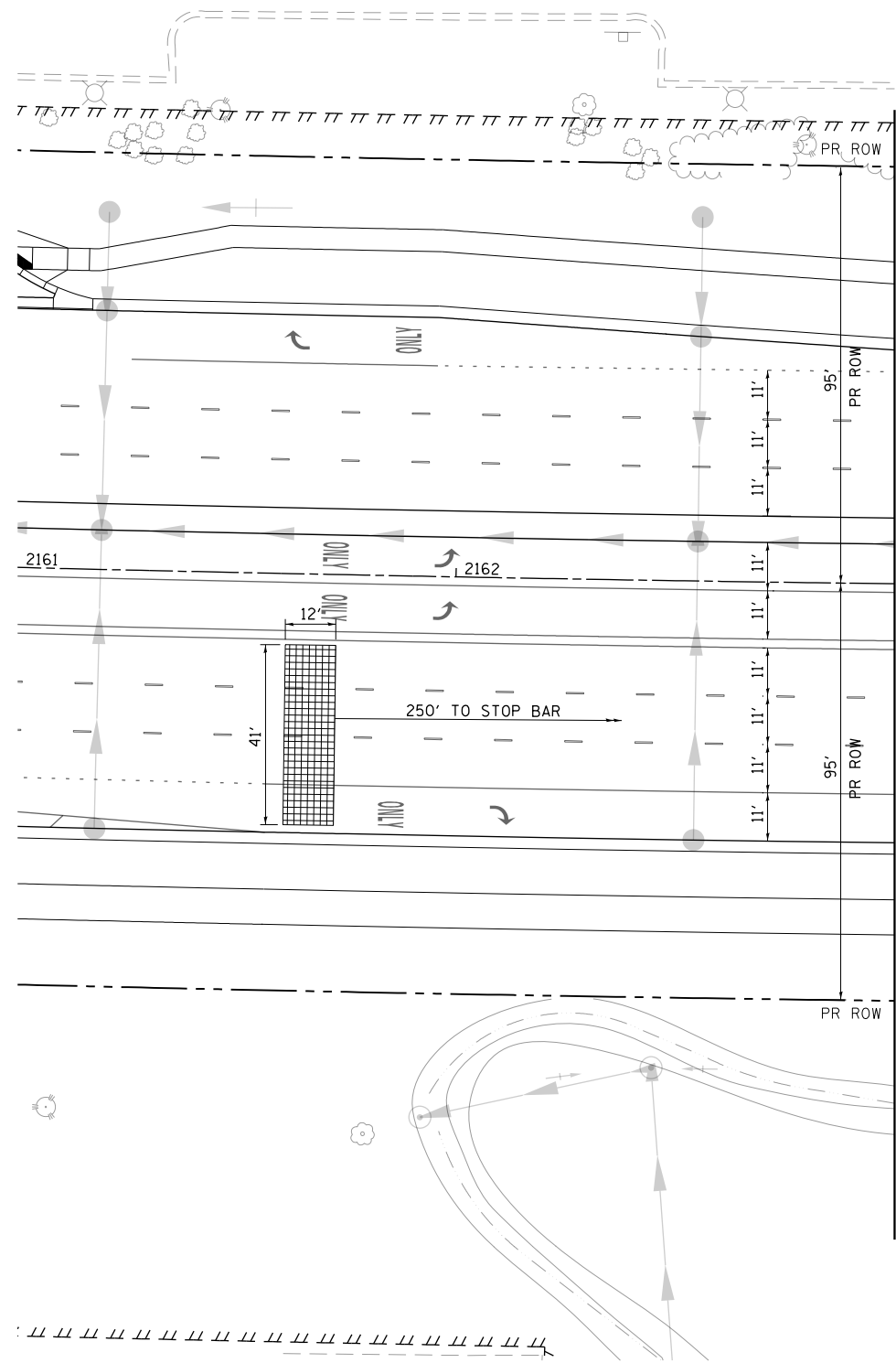
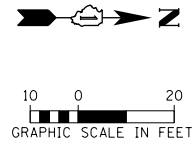
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PLOT SCALE = 40.0000' / in.	CHECKED - GR	REVISED -
PLOT DATE = 4/25/2018	DATE - 4-26-2018	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

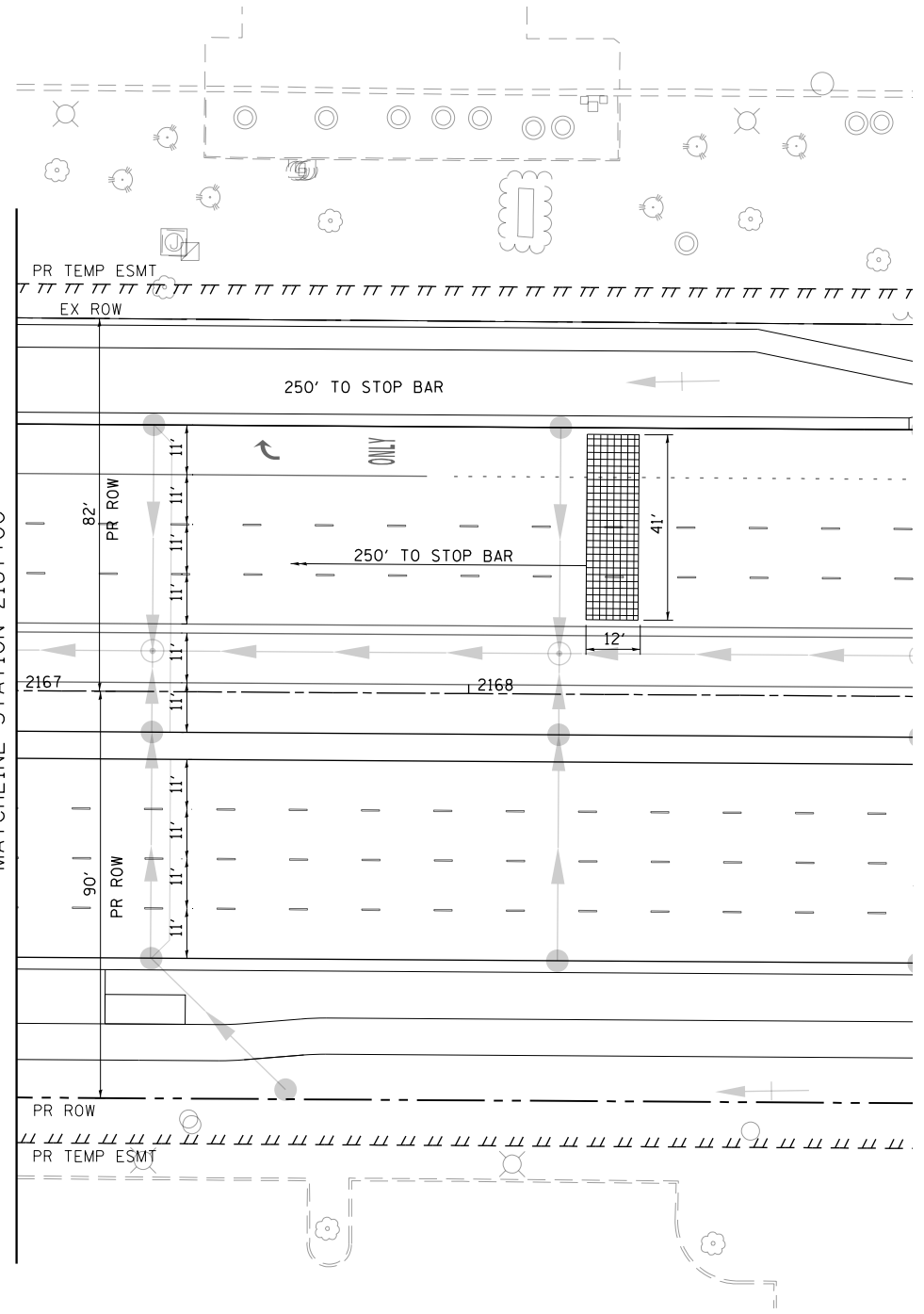
**TRAFFIC SIGNAL MODERNIZATION PLAN
 RANDALL RD AND BUNKER HILL DR / HUNTINGTON DR**

SCALE: 1" = 20' SHEET 18 OF 66 SHEETS STA 2163+00 TO STA 2167+00

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-01-PW	MCHENRY	1751	520
CONTRACT NO.			61E53	
ILLINOIS FED. AID PROJECT				



MATCH LINE STATION 2163+00
SEE SHEET NO. 520



SEE SHEET NO. 520
MATCHLINE STATION 2167+00



USER NAME = mrc155	DESIGNED - BTW	REVISED -
FILENAME = D:\NNNN-sht-TSP-Install-Bunker	DRAWN - BTW	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - GR	REVISED -
PLOT DATE = 4/25/2018	DATE - 4-26-2018	REVISED -

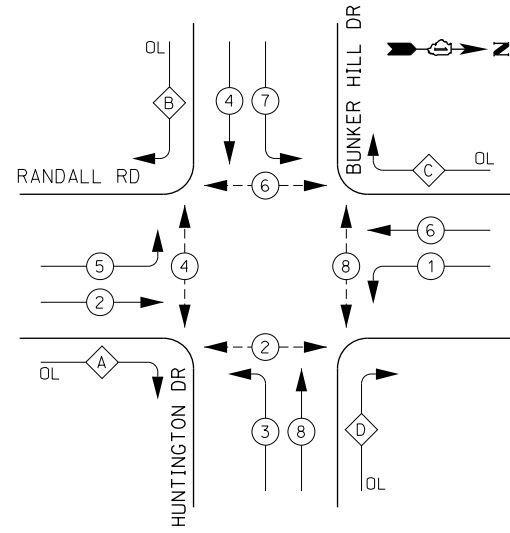
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODERNIZATION PLAN
RANDALL RD AT BUNKER HILL DR /HUNTINGTON DR**

SCALE: 1" = 20' SHEET 19 OF 66 SHEETS STA TO STA

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-01-PW	MCHENRY	1751	521
CONTRACT NO.			61E53	
ILLINOIS FED. AID PROJECT				

PROPOSED CONTROLLER SEQUENCE



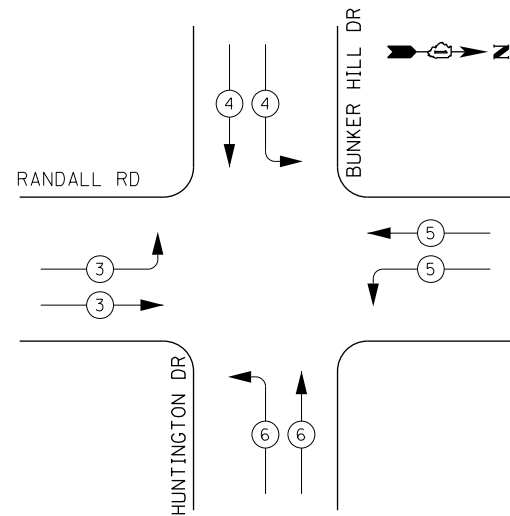
LEGEND:

- ←*→ PROTECTED PHASE
- ←*→ PROTECTED/PERMITTED PHASE
- ←*→ PEDESTRIAN PHASE
- ←*→ OL OVERLAP

RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	= 2	+ 3
B	= 4	+ 5
C	= 6	+ 7
D	= 8	+ 1

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



IDOT

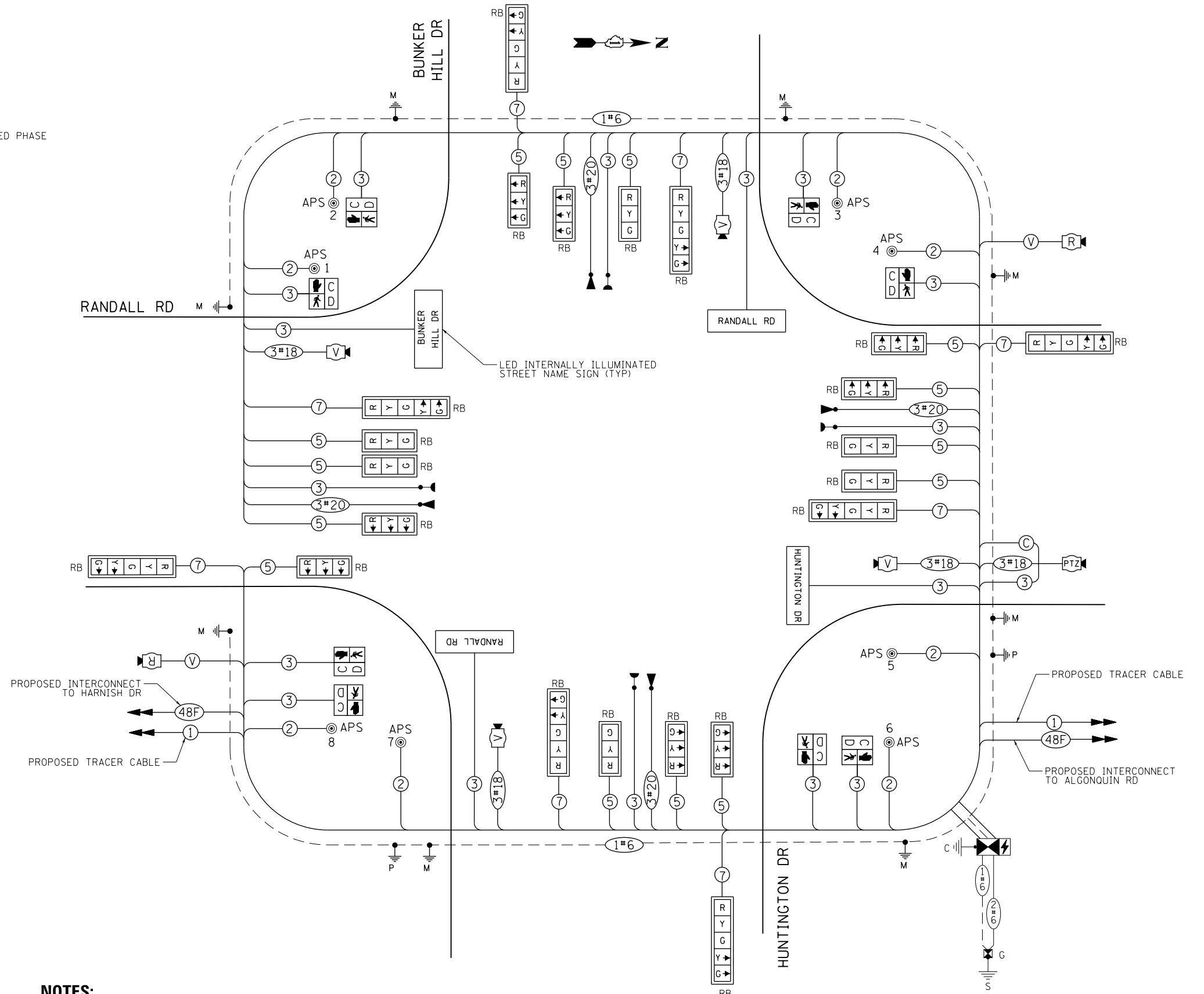
Traffic Signal Installation Electrical Service Requirements

Type	Number of Lamps	LED Wattage	% Operations	Total Wattage
Signal	Red	22	50%	121.0
	Yellow	22	5%	22.0
	Green	22	45%	118.8
Prot-Perm Arrow	16	10	10%	16.0
Ped. Signal	8	20	100%	160.0
Controller	1	100	100%	100.0
UPS	1	25	100%	25.0
Video System		115	100%	
Blank-Out Sign		25	5%	
Flasher			50%	
Street Name Sign	4	120	50%	240.0
Luminaire		285	50%	
Total Intersection Wattage				802.8

ENERGY COSTS TO:

VILLAGE OF ALGONQUIN
2200 HARNISH DRIVE
ALGONQUIN, ILLINOIS 60102

ENERGY SUPPLY: CONTACT: _____
PHONE: (____) _____
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: _____



CABLE PLAN

NOTES:

1. WIRING FOR LUMINAIRES ON TRAFFIC SIGNAL COMBINATION MAST ARMS SHALL BE INSTALLED PER LIGHTING PLANS.



**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

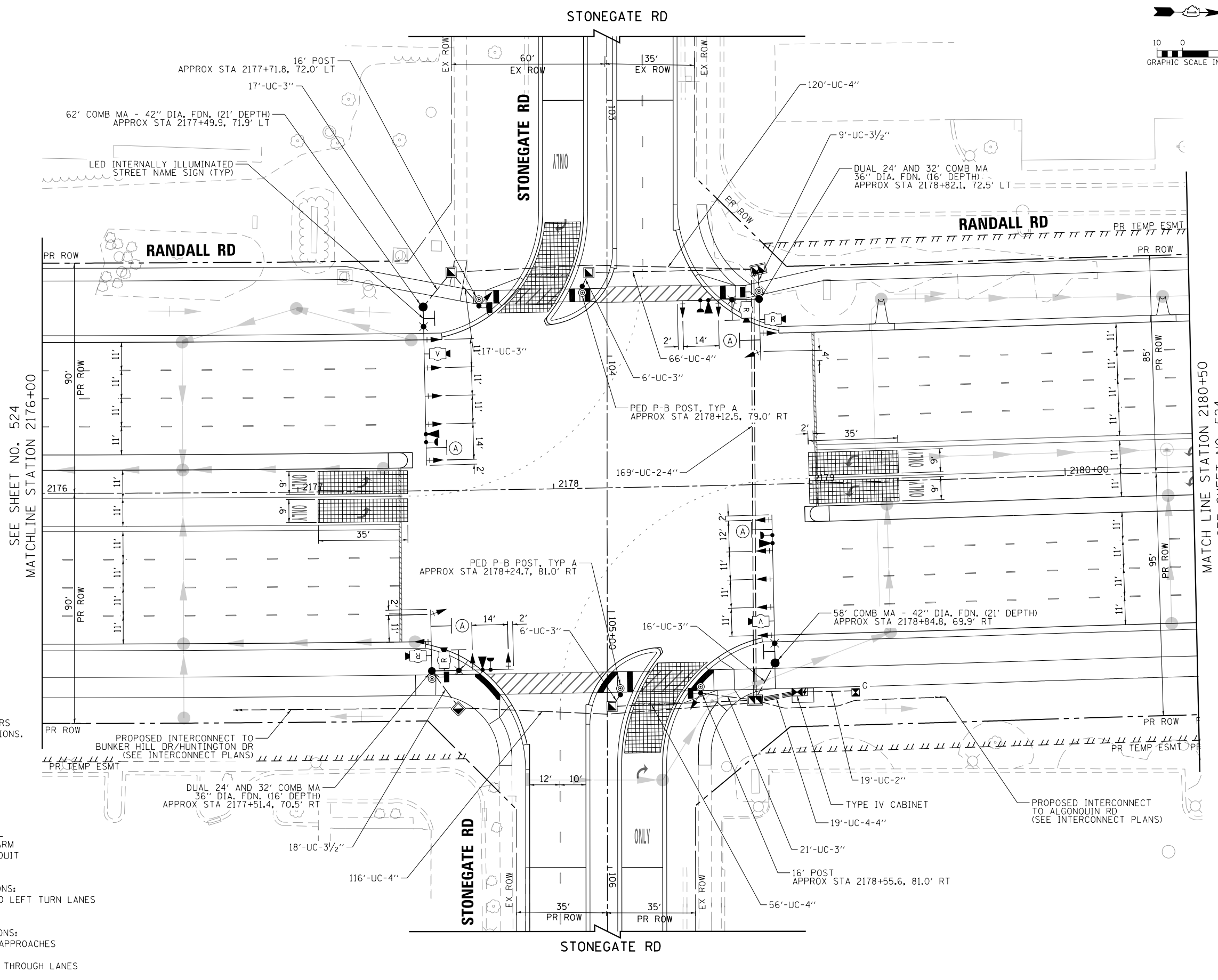
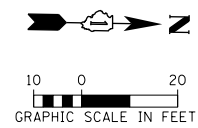
**CABLE PLAN, SCHEDULE OF QUANTITIES, PHASE DESIGNATION DIAGRAM
RANDALL RD AND BUNKER HILL DR / HUNTINGTON DR**

SCALE: NONE SHEET 20 OF 66 SHEETS STA TO STA

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-01-PW	MCHENRY	1751	522
			CONTRACT NO. 61E53	

ILLINOIS FED. AID PROJECT

USER NAME = mrc155	DESIGNED - BTW	REVISED -
FILENAME = D:\NNNN-sht-TSP-Cable-Bunker	DRAWN - BTW	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - GR	REVISED -
PLOT DATE = 4/25/2018	DATE - 4-26-2018	REVISED -



(A) LEFT ON GREEN ARROW ONLY
 R10-5
 30"x36"
 SIGN PANEL - TYPE 1
 (4 REQUIRED)

NOTES:

1. THE MOUNTING LOCATIONS OF THE VIDEO AND RADAR DETECTORS WILL BE DETERMINED PER THE MANUFACTURER'S RECOMMENDATIONS.
2. LUMINAIRE ARMS ON ALL TRAFFIC SIGNAL COMBINATION MAST ARM ASSEMBLY AND POLES SHALL BE 20 FT.
3. THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.
4. SEPARATE CONDUITS FOR LIGHTING AND TRAFFIC SIGNALS SHALL BE INSTALLED IN THE FOUNDATIONS FOR COMBINATION MAST ARM ASSEMBLY AND POLE. SEE LIGHTING PLANS FOR LIGHTING CONDUIT DETAIL.
5. VIDEO DETECTION SHALL BE USED AT THE FOLLOWING LOCATIONS:
 - STOP BAR DETECTION ON NORTHBOUND AND SOUTHBOUND LEFT TURN LANES (RANDALL RD)
 RADAR DETECTION SHALL BE USED AT THE FOLLOWING LOCATIONS:
 - STOP BAR DETECTION ON EASTBOUND AND WESTBOUND APPROACHES (STONEGATE RD)
 - ADVANCE DETECTION ON NORTHBOUND AND SOUTHBOUND THROUGH LANES (RANDALL RD)



USER NAME = mrc155	DESIGNED - BTW	REVISED -
FILENAME = D:\NNNN-sht-TSP-Install-Stone	DRAWN - BTW	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - GR	REVISED -
PLOT DATE = 4/25/2018	DATE - 4-26-2018	REVISED -

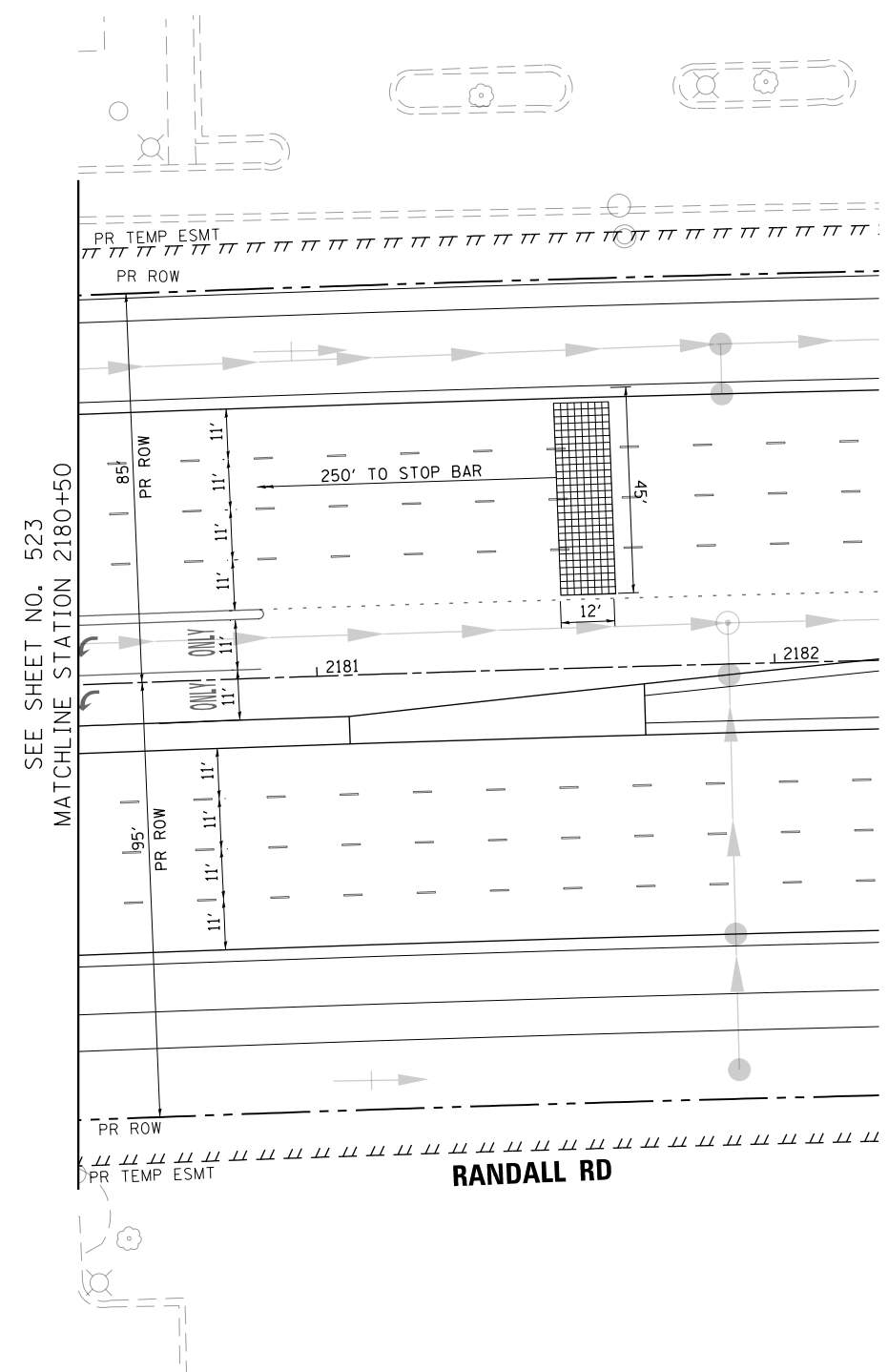
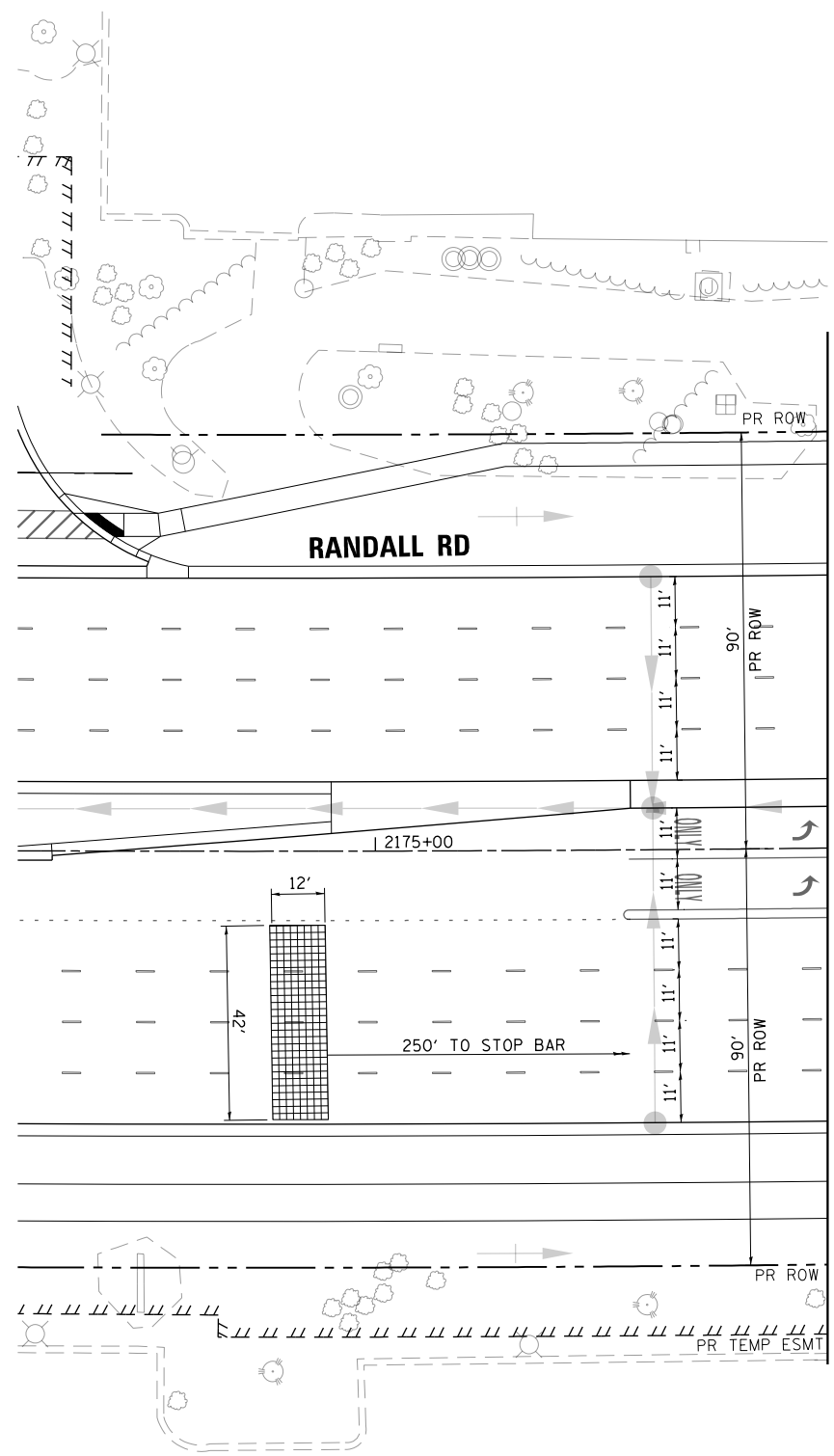
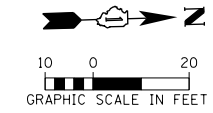
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODERNIZATION PLAN
 RANDALL RD AND STONEGATE RD**
 SCALE: 1" = 20' SHEET 21 OF 66 SHEETS STA 2176+00 TO STA 2180+50

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-01-PW	MCHENRY	1751	523
CONTRACT NO. 61E53			ILLINOIS FED. AID PROJECT	

SEE SHEET NO. 524
 MATCHLINE STATION 2176+00

MATCHLINE STATION 2180+50
 SEE SHEET NO. 524



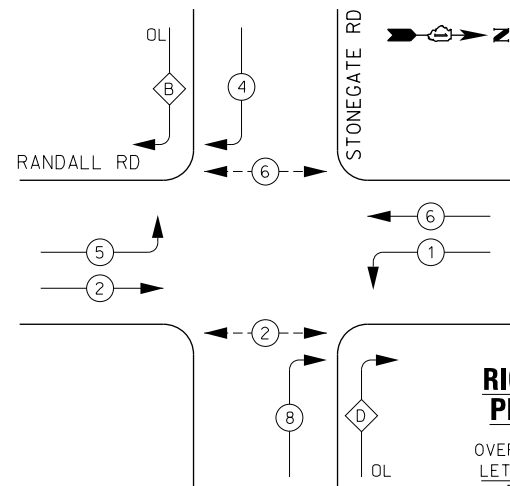
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PLOT SCALE = 40.0000' / in.	CHECKED - GR	REVISED -
PLOT DATE = 4/25/2018	DATE - 4-26-2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TRAFFIC SIGNAL MODERNIZATION PLAN RANDALL RD AND STONEGATE RD			
SCALE: 1" = 20'	SHEET 22	OF 66 SHEETS	STA TO STA

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-01-PW	MCHENRY	1751	524
CONTRACT NO.			61E53	
ILLINOIS FED. AID PROJECT				

PROPOSED CONTROLLER SEQUENCE



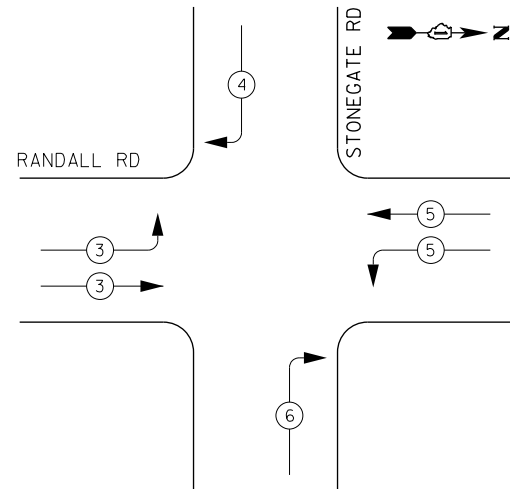
LEGEND:

- ← * → PROTECTED PHASE
- ← * - - → PROTECTED/PERMITTED PHASE
- ← * → PEDESTRIAN PHASE
- ← OL → OVERLAP

RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
B	= 4	+ 5
D	= 8	+ 1

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



IDOT

Traffic Signal Installation Electrical Service Requirements

Type	Number of Lamps	LED Wattage	% Operations	Total Wattage
Signal				
Red	20	11	50%	110.0
Yellow	20	20	5%	20.0
Green	20	12	45%	108.0
Permissive Arrow		10	10%	
Ped. Signal	4	20	100%	80.0
Controller	1	100	100%	100.0
UPS	1	25	100%	25.0
Video System		115	100%	
Blank-Out Sign		25	5%	
Flasher			50%	
Street Name Sign	4	120	50%	240.0
Luminaire		285	50%	
Total Intersection Wattage				683.0

ENERGY COSTS TO:

VILLAGE OF ALGONQUIN
2200 HARNISH DRIVE
ALGONQUIN, ILLINOIS 60102

ENERGY SUPPLY: CONTACT: _____
PHONE: (____) _____
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: _____



USER NAME = mrc155	DESIGNED - BTW	REVISED -
FILENAME = D:\NNNN-sht-TSP-Cable-Stone.dwg	DRAWN - BTW	REVISED -
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PLOT DATE = 4/25/2018	DATE - 4-26-2018	REVISED -

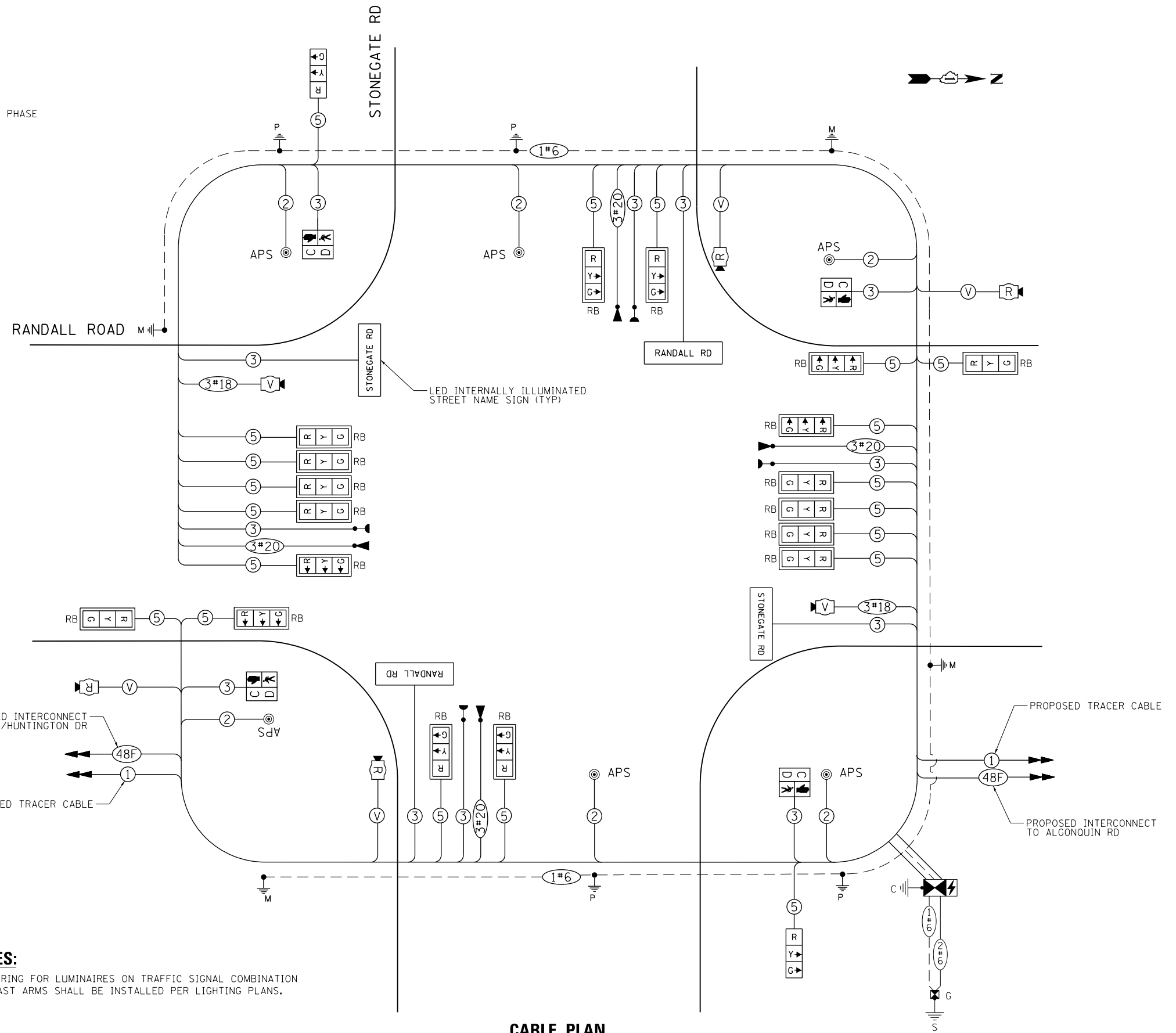
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CABLE PLAN, SCHEDULE OF QUANTITIES, PHASE DESIGNATION DIAGRAM
RANDALL RD AND STONEGATE RD**

SCALE: NONE SHEET 23 OF 66 SHEETS STA TO STA

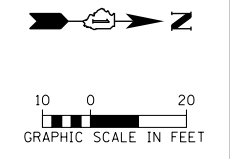
FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-01-PW	MCHENRY	1751	525
			CONTRACT NO. 61E53	

ILLINOIS FED. AID PROJECT



NOTES:

1. WIRING FOR LUMINAIRES ON TRAFFIC SIGNAL COMBINATION MAST ARMS SHALL BE INSTALLED PER LIGHTING PLANS.



NOTES:

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

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND DELIVER ALL EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

AGENCY: ALGONQUIN - LAKE IN THE HILLS FIRE PROTECTION DISTRICT

- 3 EACH LIGHT DETECTOR
- 3 EACH CONFIRMATION BEACON
- 1 EACH LIGHT DETECTOR AMPLIFIER

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND DELIVER ALL EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

AGENCY: MCHENRY COUNTY - DIVISION OF TRANSPORTATION

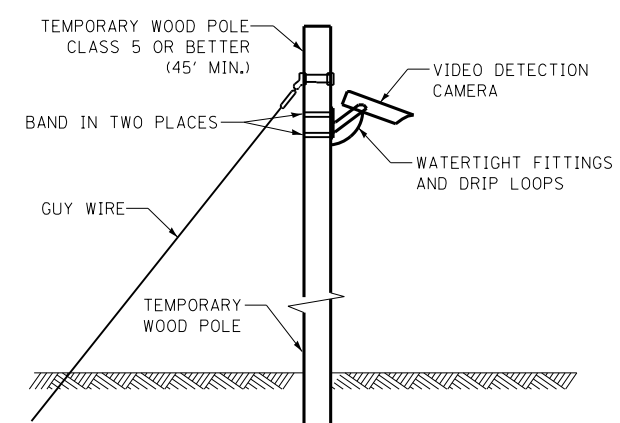
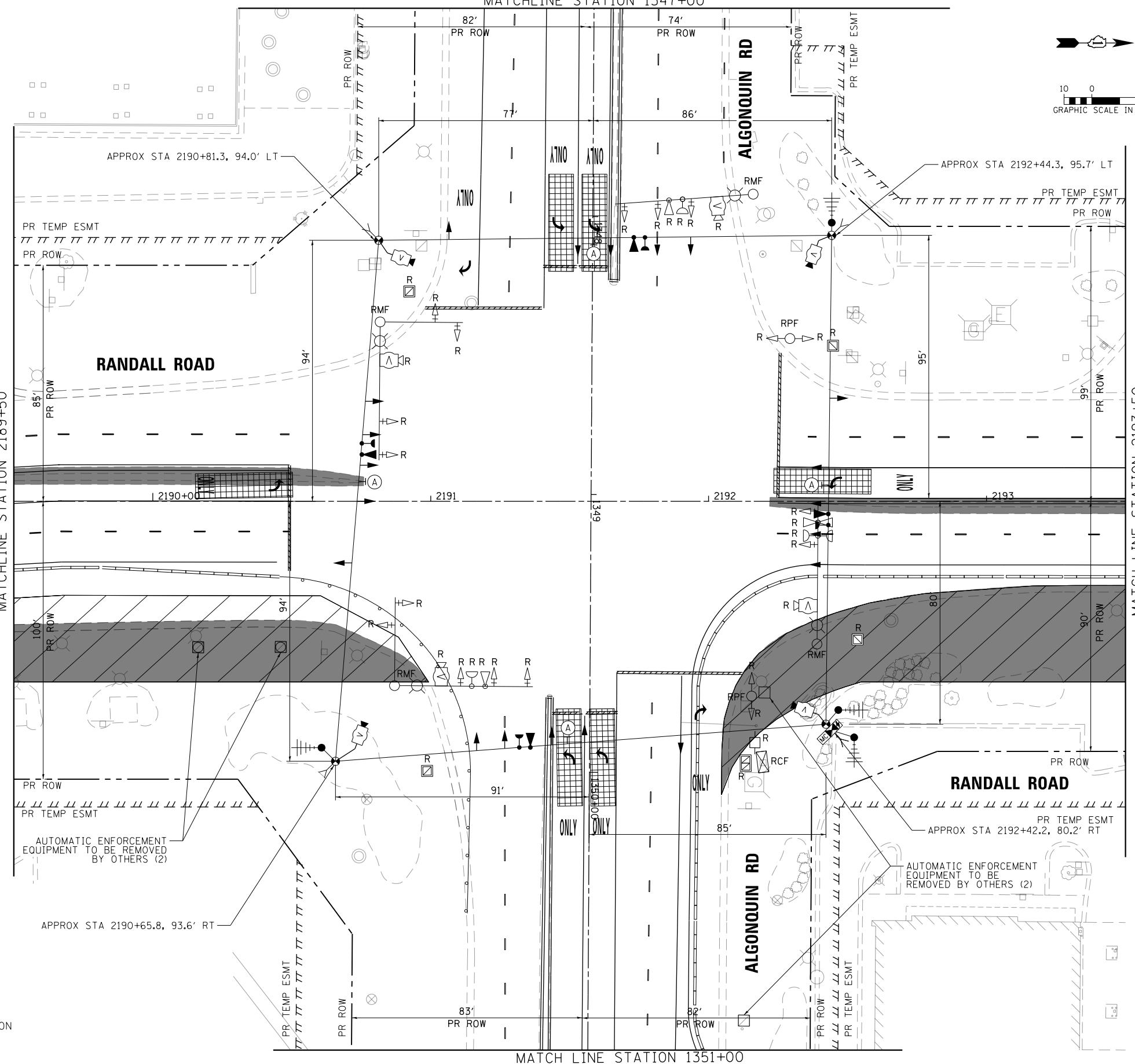
- 4 EACH VEHICLE DETECTION CAMERA
- 1 EACH CONTROLLER AND CABINET (COMPLETE)
- 1 EACH UNINTERRUPTABLE POWER SUPPLY

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 8 EACH 3-SECTION SIGNAL HEAD
- 10 EACH 5-SECTION SIGNAL HEAD
- 14 EACH TRAFFIC SIGNAL BACKPLATE
- 2 EACH STEEL COMB MAST ARM AND POLE WITH LUMINAIRE
- 2 EACH STEEL COMB DUAL MAST ARM AND POLE WITH LUMINAIRE
- 2 EACH TRAFFIC SIGNAL POST
- 1 EACH SERVICE INSTALLATION

SEE SHEET NO. 527
MATCHLINE STATION 2189+50

MATCHLINE STATION 2193+50
SEE SHEET NO. 527



TEMPORARY VIDEO DETECTION MOUNTING DETAIL (NOT TO SCALE)

LEFT ON GREEN ARROW ONLY

R10-5
4 REQUIRED
30"x36"
SIGN PANEL TYPE 1
Ⓐ
INCLUDED IN THE COST OF TEMPORARY TRAFFIC SIGNAL INSTALLATION



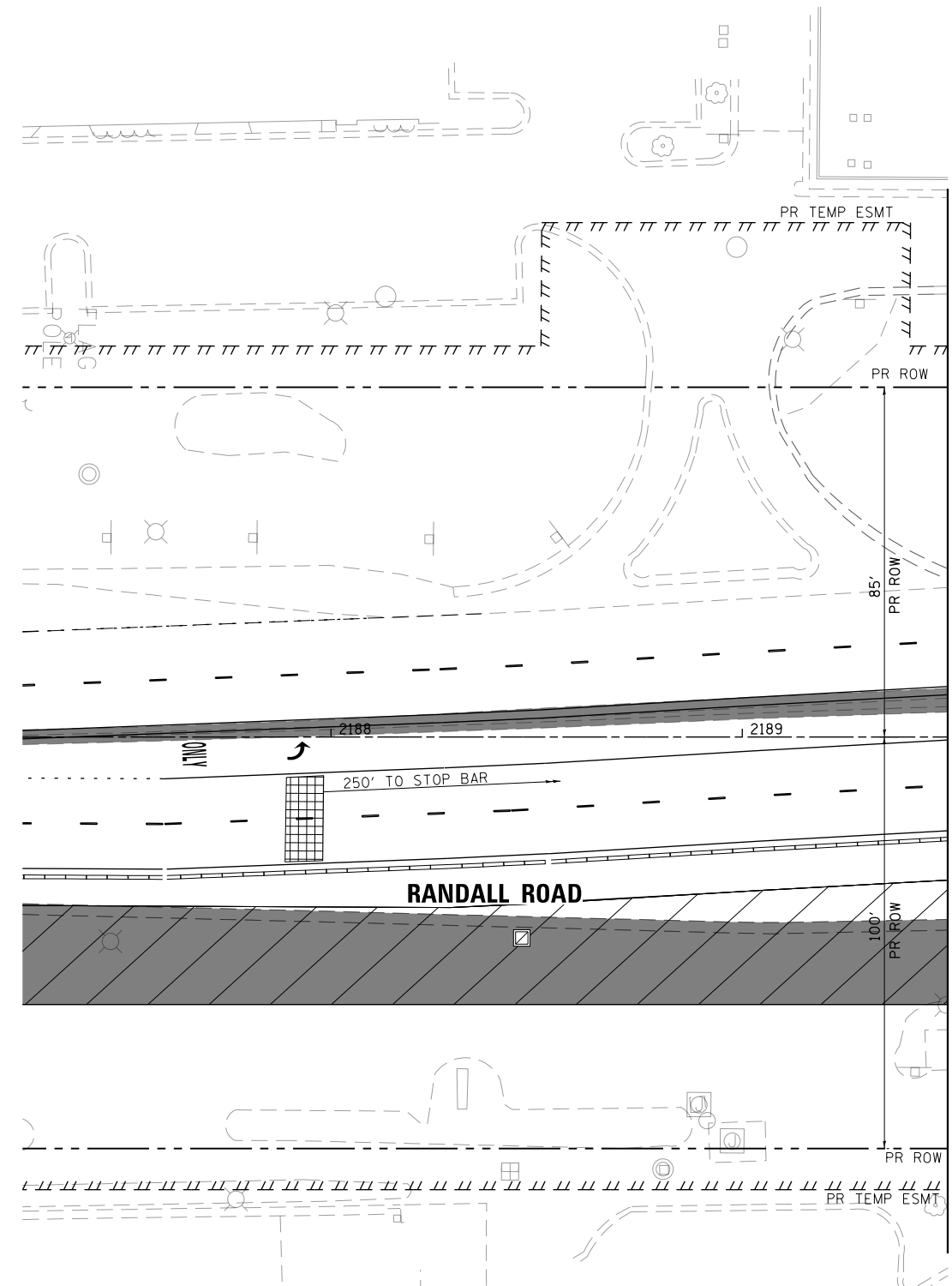
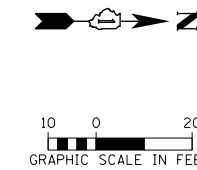
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PLOT DATE = 4/25/2018	DATE - 4-26-2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

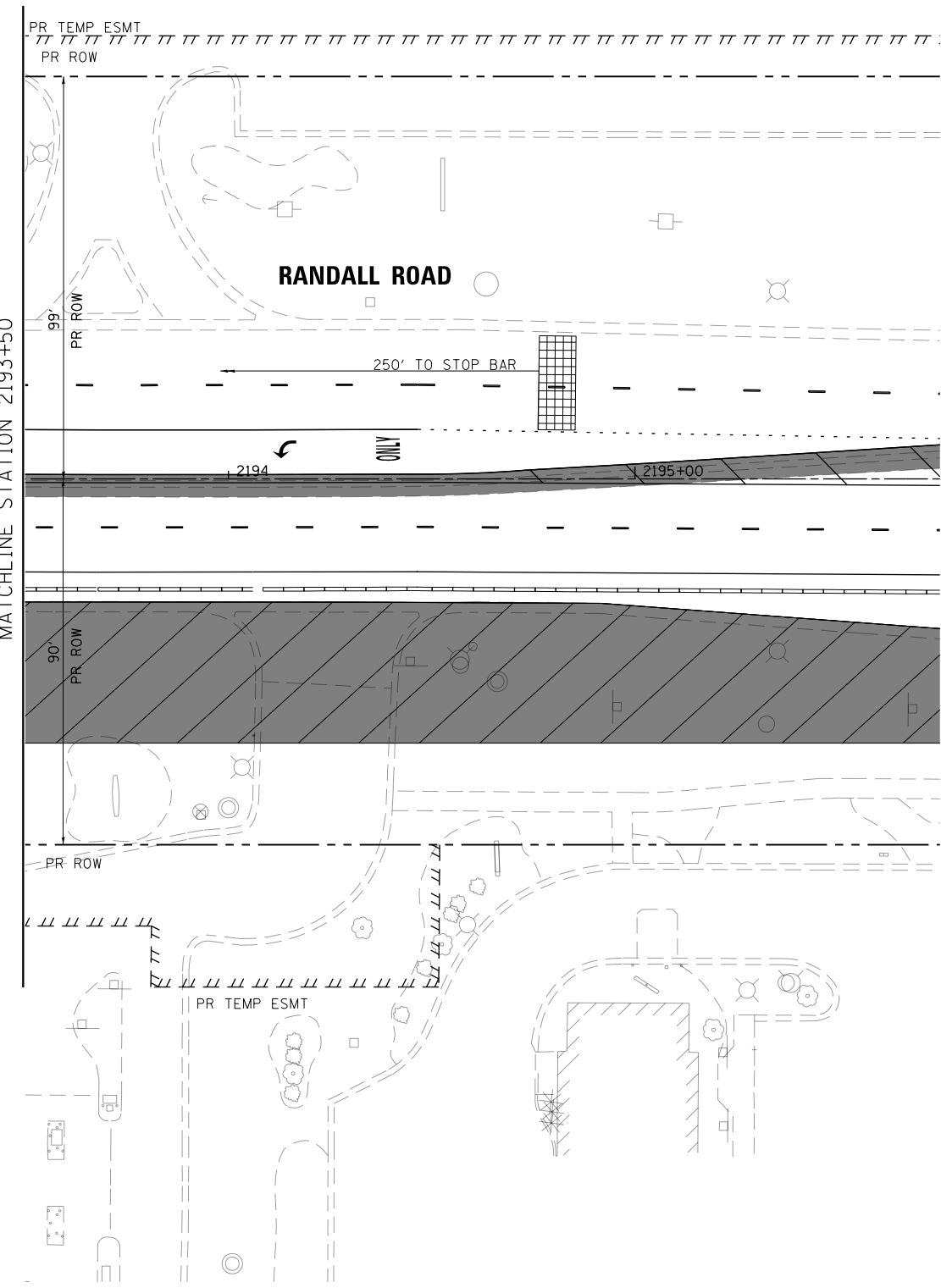
**TEMPORARY TRAFFIC SIGNAL INSTALLATION & REMOVAL PLAN
RANDALL RD AND ALGONQUIN RD**

SCALE: 1" = 20' SHEET 24 OF 66 SHEETS STA 2189+50 TO STA 2193+50

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-01-PW	MCHENRY	1751	526
CONTRACT NO. 61E53			ILLINOIS FED. AID PROJECT	



MATCH LINE STATION 2189+50
SEE SHEET NO. 526



SEE SHEET NO. 526
MATCHLINE STATION 2193+50



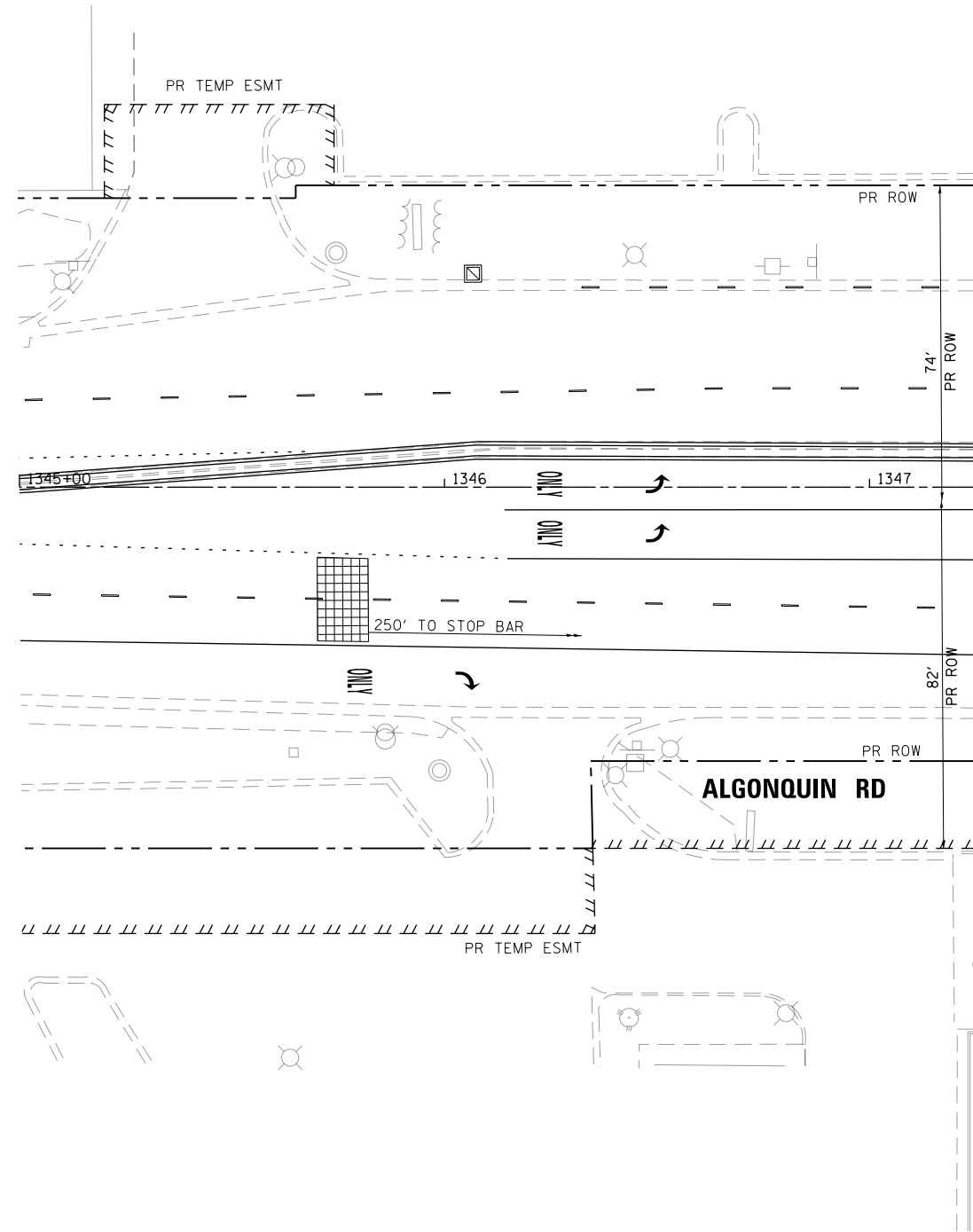
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PLOT SCALE = 40.0000' / in.	CHECKED - GR	REVISED -
PLOT DATE = 4/25/2018	DATE - 4-26-2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

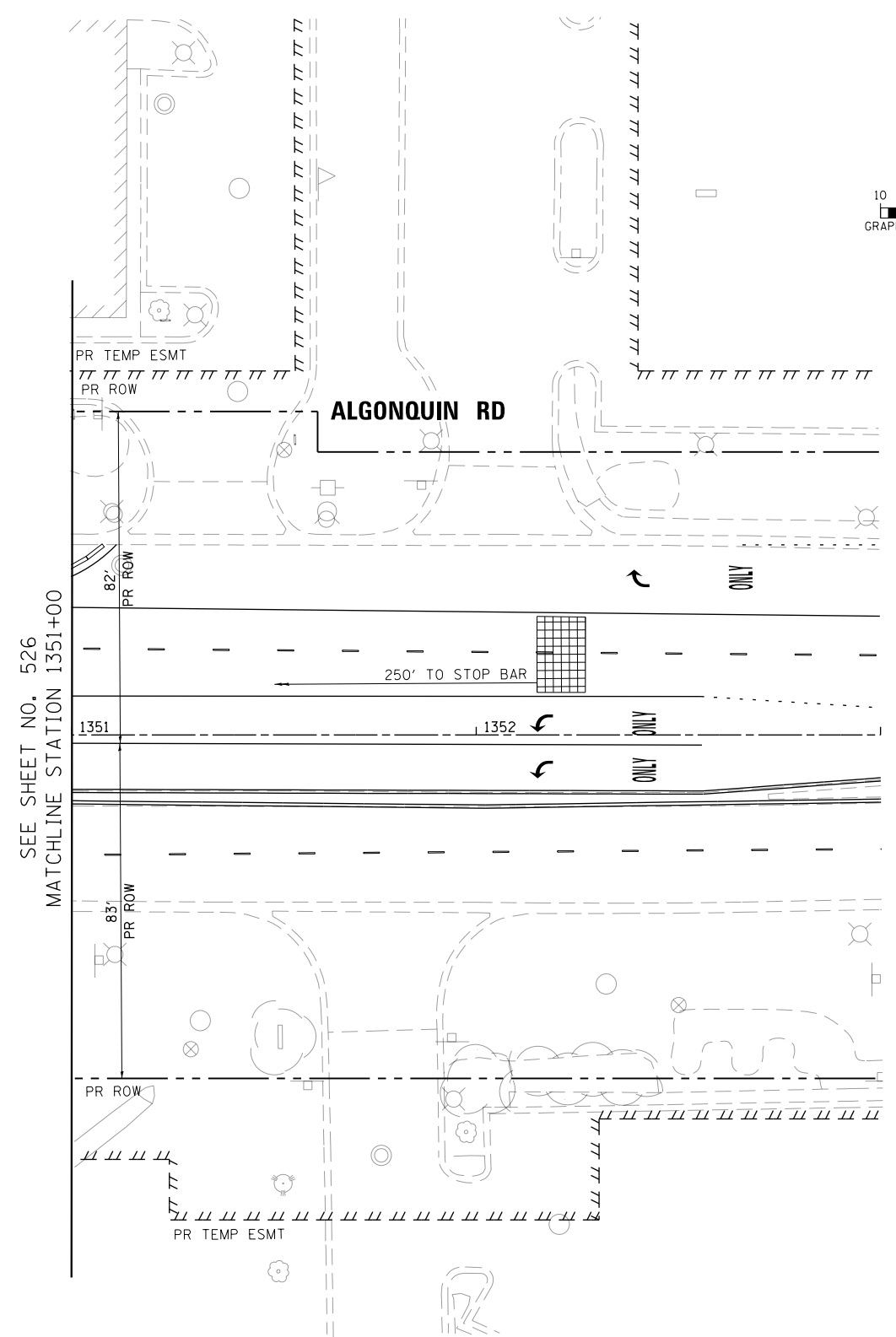
**TEMPORARY TRAFFIC SIGNAL INSTALLATION & REMOVAL PLAN
RANDALL RD AND ALGONQUIN RD**

SCALE: 1" = 20' SHEET 25 OF 66 SHEETS STA TO STA

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-01-PW	MCHENRY	1751	527
CONTRACT NO. 61E53			ILLINOIS FED. AID PROJECT	



MATCH LINE STATION 1347+25
SEE SHEET NO. 526



SEE SHEET NO. 526
MATCHLINE STATION 1351+00

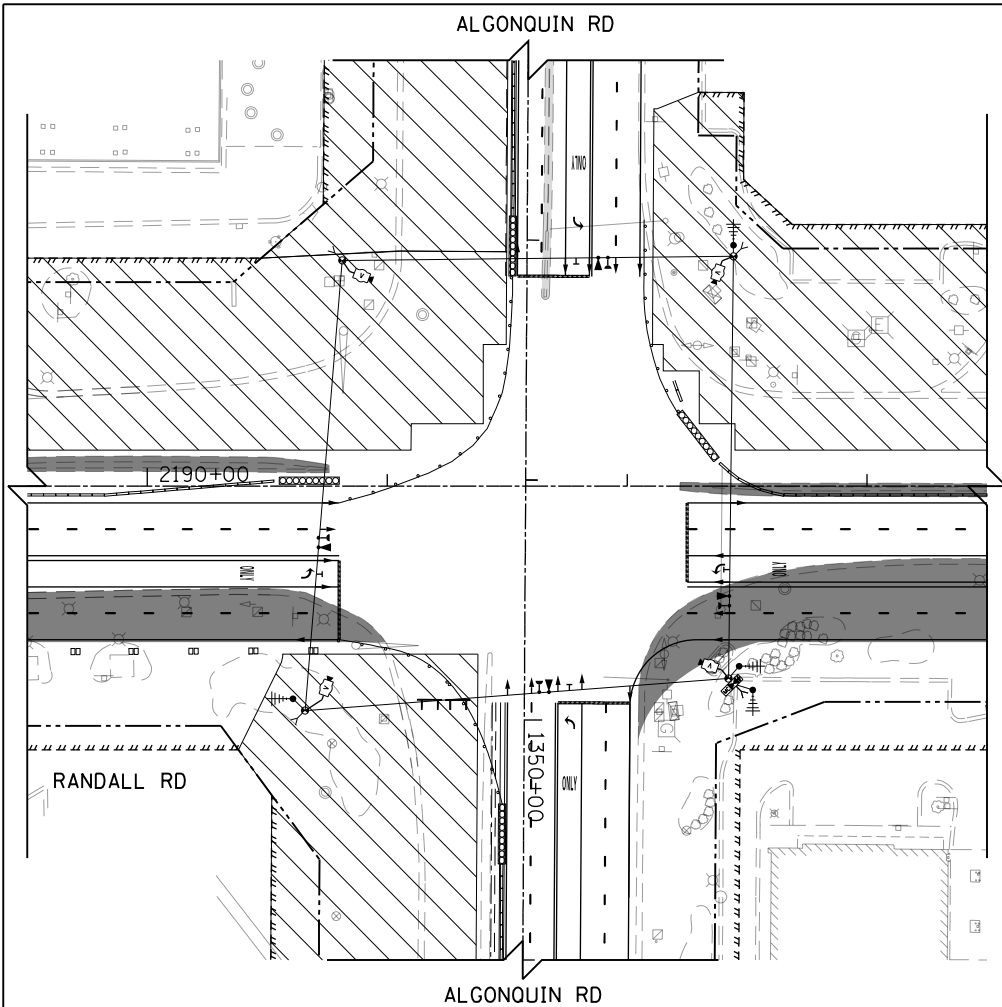
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PLOT DATE = 4/25/2018	DATE - 4-26-2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

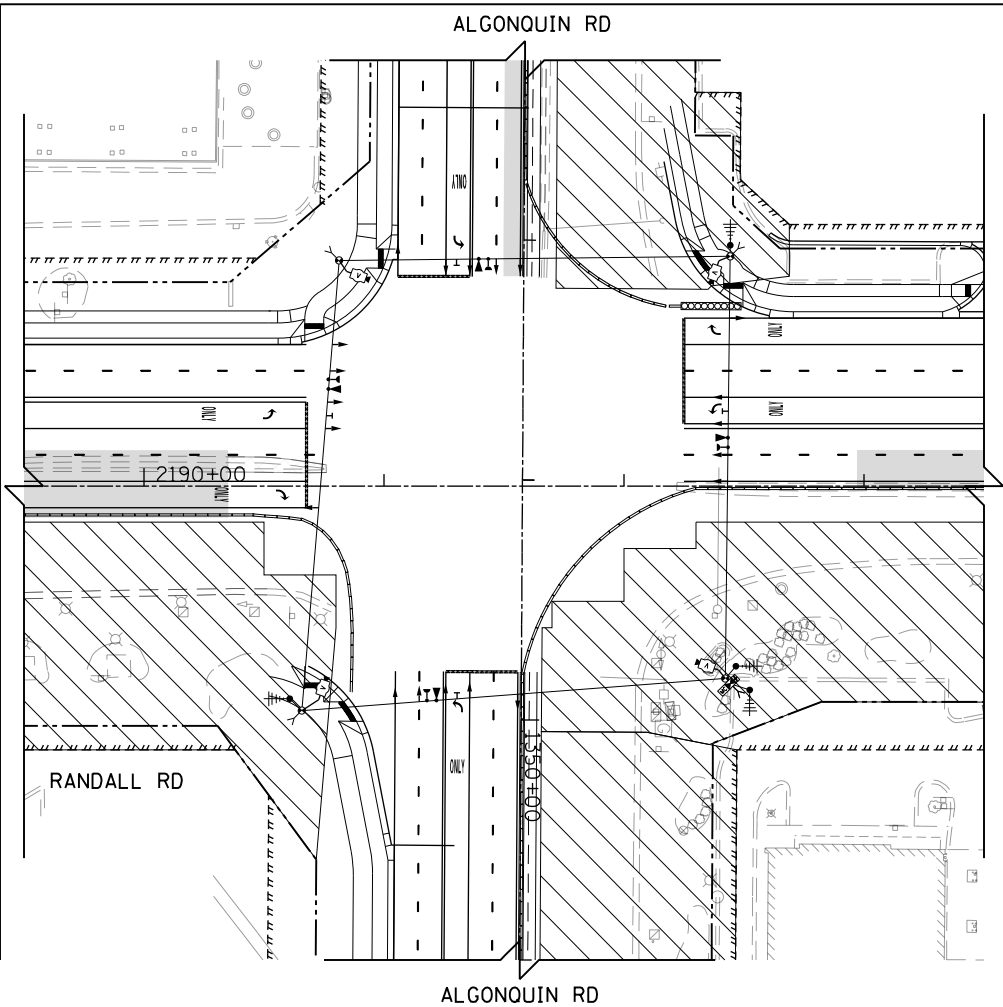
**TEMPORARY TRAFFIC SIGNAL INSTALLATION & REMOVAL PLAN
RANDALL RD AND ALGONQUIN RD**

SCALE: 1" = 20' SHEET 26 OF 66 SHEETS STA TO STA

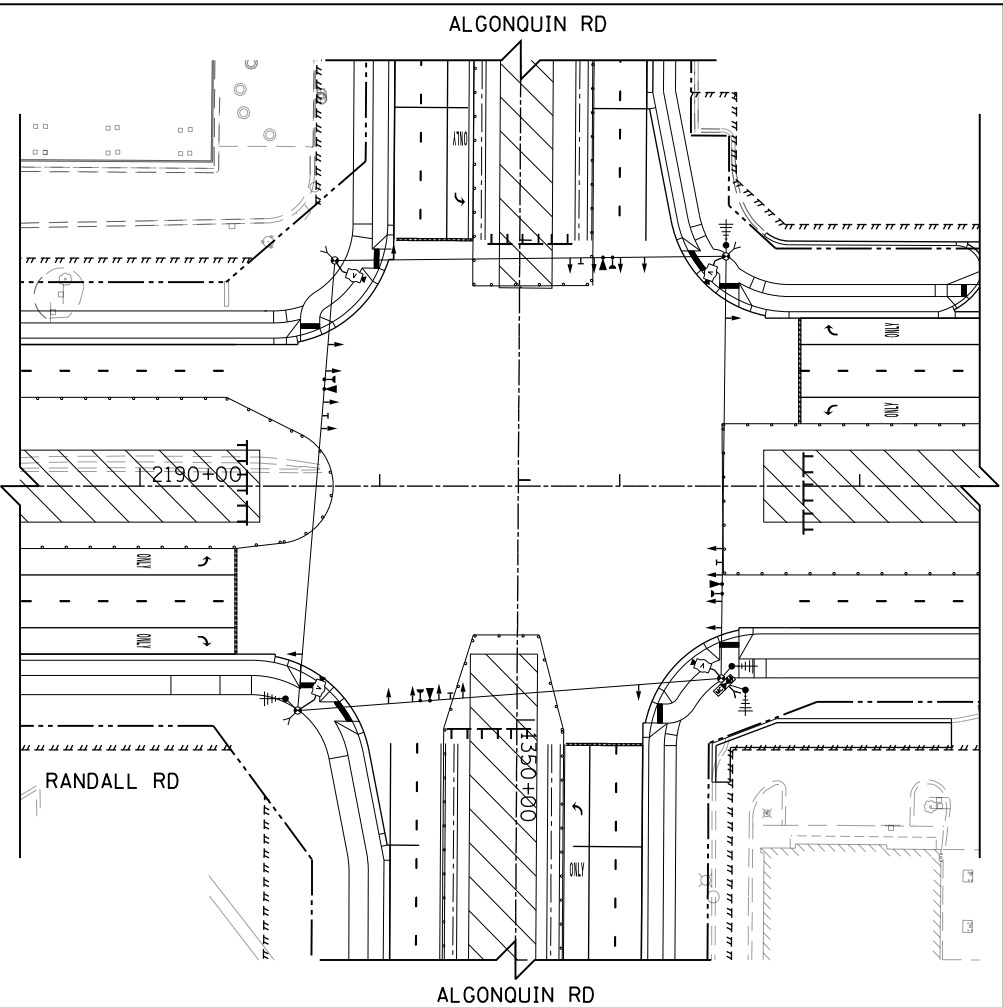
FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-01-PW	MCHENRY	1751	528
CONTRACT NO. 61E53			ILLINOIS FED. AID PROJECT	



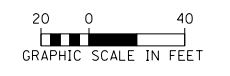
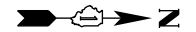
TEMPORARY TRAFFIC SIGNAL STAGE 1



TEMPORARY TRAFFIC SIGNAL STAGE 2



TEMPORARY TRAFFIC SIGNAL STAGE 3



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PLOT DATE = 4/25/2018	DATE - 4-26-2018	REVISED -

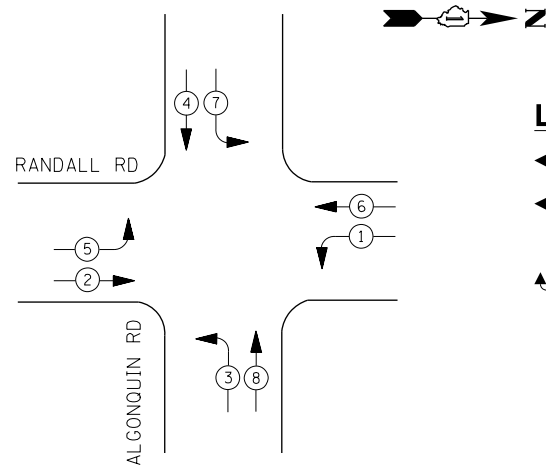
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY M.O.T. STAGING PLAN
RANDALL RD AND ALGONQUIN RD

SCALE: 1" = 40' SHEET 27 OF 66 SHEETS STA TO STA

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-01-PW	MCHENRY	1751	529
			CONTRACT NO.	61E53
ILLINOIS FED. AID PROJECT				

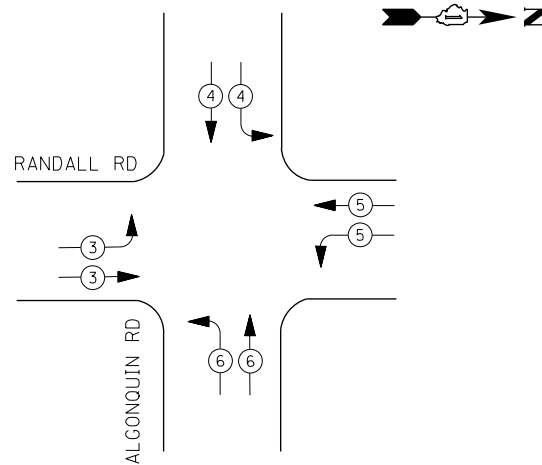
TEMPORARY CONTROLLER SEQUENCE



LEGEND:

- ← * → PROTECTED PHASE
- ← * - - PROTECTED/PERMITTED PHASE
- ← * → PEDESTRIAN PHASE
- ← * OL → OVERLAP

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE



IDOT Traffic Signal Installation Electrical Service Requirements

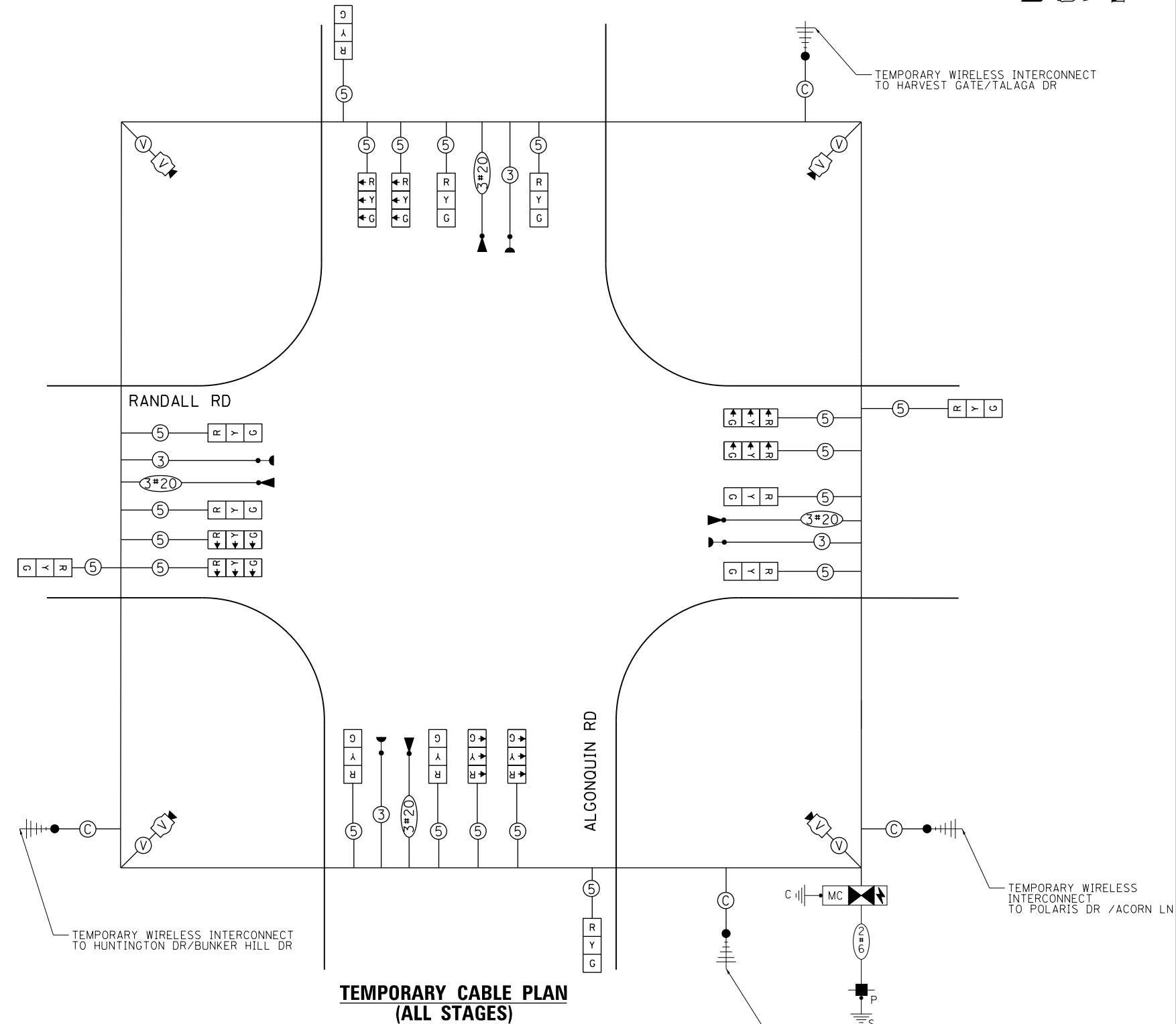
Type	Number of Lamps	LED Wattage	% Operations	Total Wattage
Signal	Red	20	50%	110.0
	Yellow	20	5%	20.0
	Green	20	45%	108.0
Prot-Perm Arrow		10	10%	
Ped. Signal		20	100%	
Controller	2	100	100%	200.0
UPS	1	25	100%	25.0
Video System	1	150	100%	150.0
Blank-Out Sign		25	5%	
Flasher			50%	
Street Name Sign		120	50%	
Luminaire		285	50%	
Total Intersection Wattage				613.0

ENERGY COSTS TO:

VILLAGE OF LAKE IN THE HILLS
600 HARVEST GATE ROAD
LAKE IN THE HILLS, ILLINOIS 60156

ENERGY SUPPLY: CONTACT: _____
PHONE: () _____
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: _____

USER NAME = mrc155	DESIGNED - BTW	REVISED -
FILENAME = D:\N\N\N\sh-t-TST-Cable-Algon.dwg	DRAWN - BTW	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - GR	REVISED -
PLOT DATE = 4/25/2018	DATE - 4-26-2018	REVISED -



TEMPORARY CABLE PLAN (ALL STAGES)

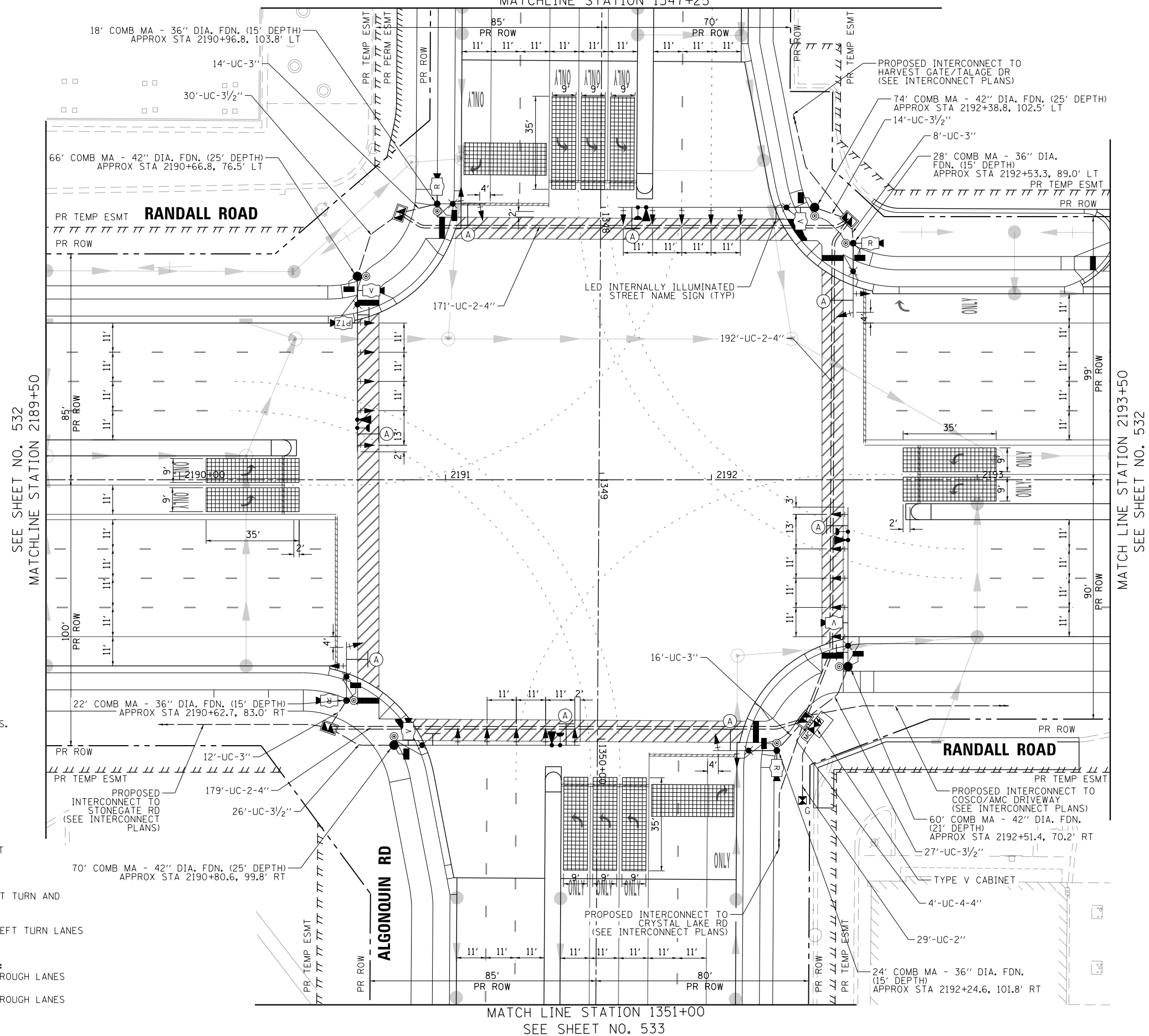
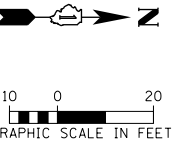
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN, PHASE DESIGNATION DIAGRAM RANDALL RD AND ALCONQUIN RD

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-01-PW	MCHENRY	1751	530
CONTRACT NO.			61E53	
ILLINOIS FED. AID PROJECT				

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





LEFT ON GREEN ARROW ONLY
R10-5
30"x36"
SIGN PANEL - TYPE 1
(8 REQUIRED)

NOTES:

1. THE MOUNTING LOCATIONS OF THE VIDEO AND RADAR DETECTORS WILL BE DETERMINED PER THE MANUFACTURER'S RECOMMENDATIONS.
 2. LUMINAIRE ARMS ON ALL TRAFFIC SIGNAL COMBINATION MAST ARM ASSEMBLY AND POLES SHALL BE 20 FT.
 3. THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.
 4. SEPARATE CONDUITS FOR LIGHTING AND TRAFFIC SIGNALS SHALL BE INSTALLED IN THE FOUNDATIONS FOR COMBINATION MAST ARM ASSEMBLY AND POLE. SEE LIGHTING PLANS FOR LIGHTING CONDUIT DETAIL.
 5. VIDEO DETECTION SHALL BE USED AT THE FOLLOWING LOCATIONS:
 - STOP BAR DETECTION ON EASTBOUND AND WESTBOUND LEFT TURN AND THROUGH LANES (ALGONQUIN ROAD)
 - STOP BAR DETECTION ON NORTHBOUND AND SOUTHBOUND LEFT TURN LANES (RANDALL RD)
- RADAR DETECTION SHALL BE USED AT THE FOLLOWING LOCATIONS:
- ADVANCE DETECTION ON NORTHBOUND AND SOUTHBOUND THROUGH LANES (RANDALL RD)
 - ADVANCE DETECTION ON NORTHBOUND AND SOUTHBOUND THROUGH LANES (ALGONQUIN RD)



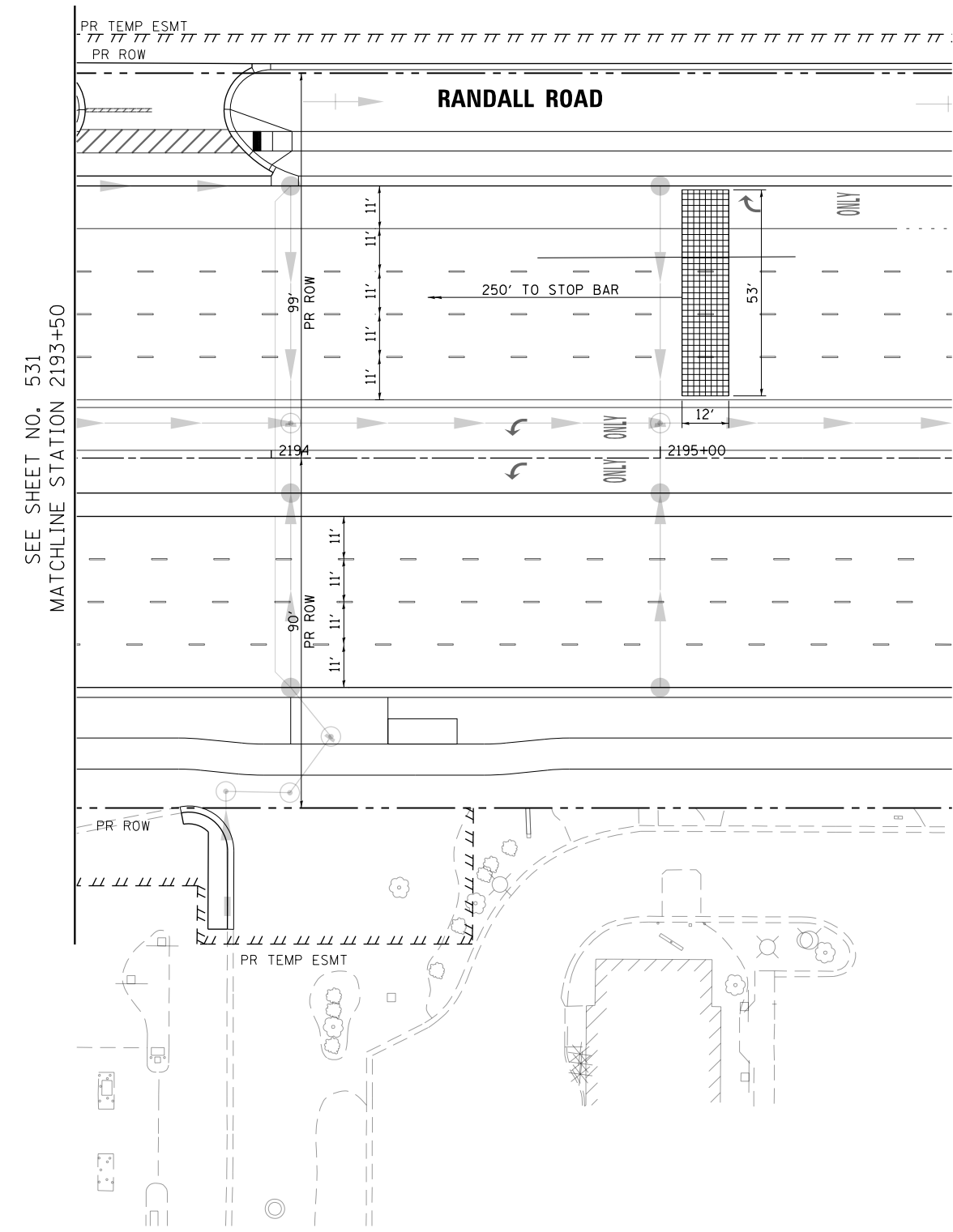
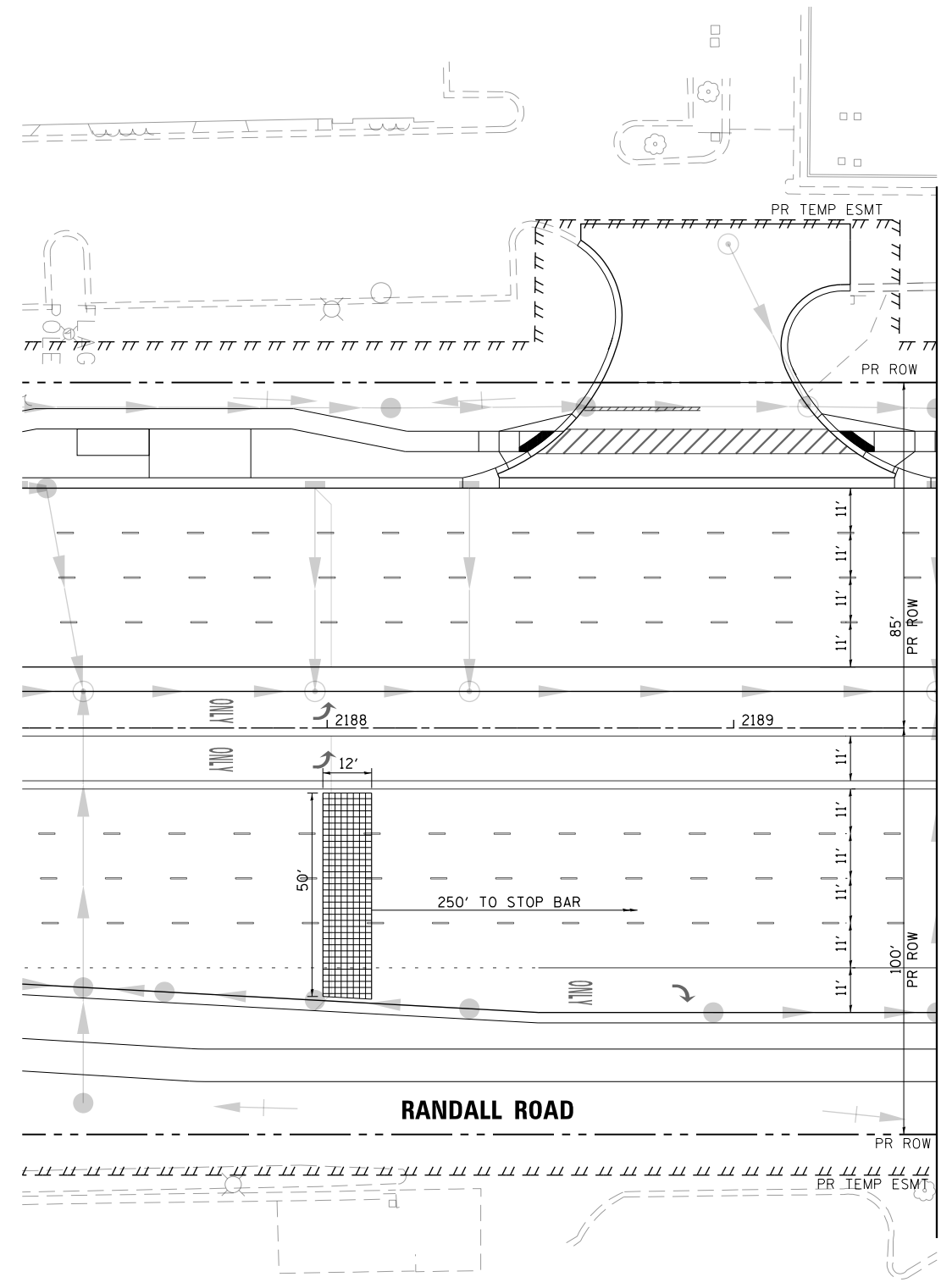
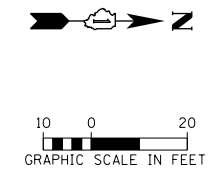
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
RANDALL RD AND ALGONQUIN RD
SCALE: 1" = 20'

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-01-PW	MCHENRY	1751	531
CONTRACT NO.			61E53	
ILLINOIS FED. AID PROJECT				

USER NAME = mrc155	DESIGNED - BTW	REVISED -
FILENAME = D:\NNNN-sht-TSP-Install-Algon-1	DRAWN - BTW	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - GR	REVISED -
PLOT DATE = 4/25/2018	DATE - 4-26-2018	REVISED -

SHEET 29 OF 66 SHEETS STA 2189+50 TO STA 2193+50



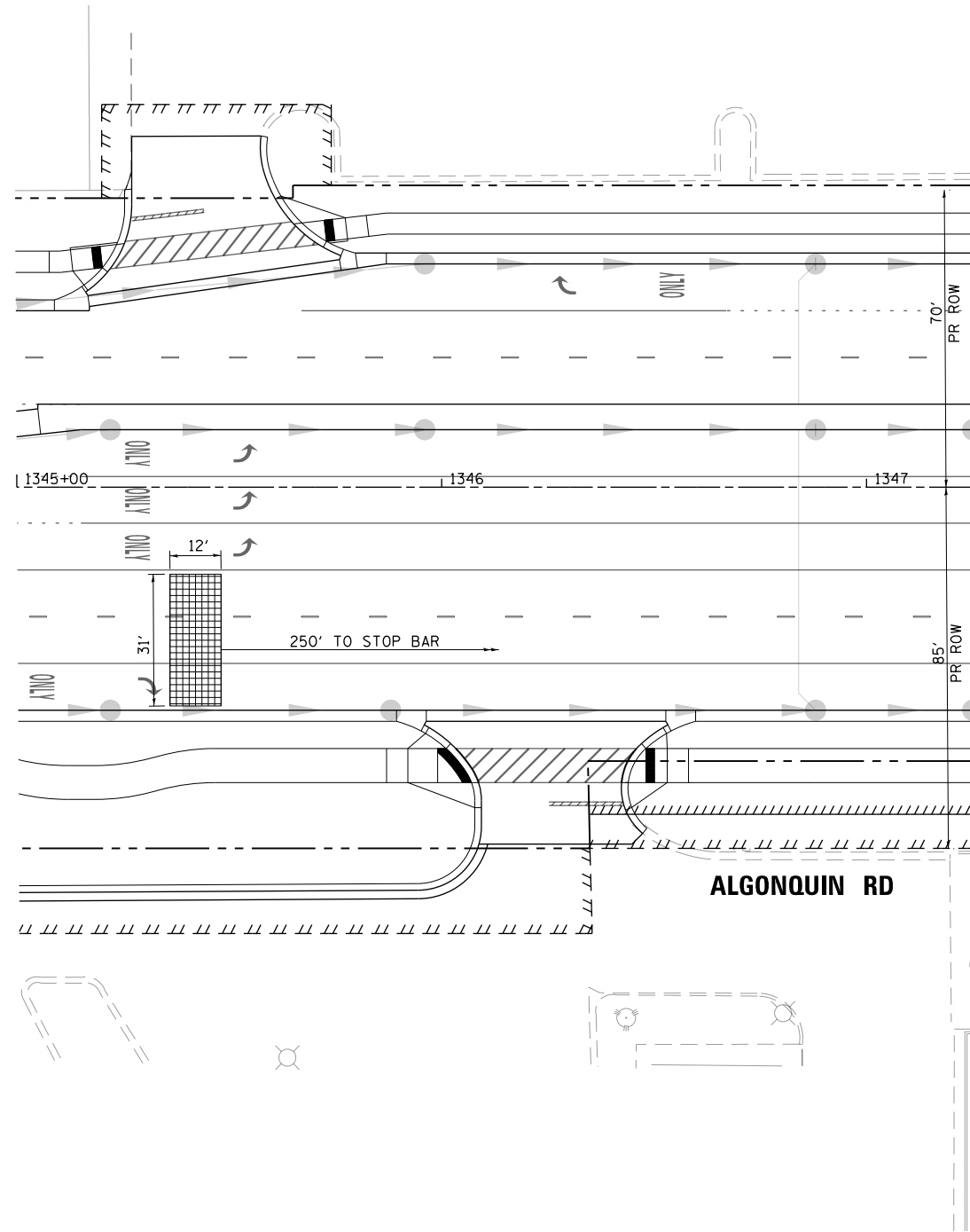
USER NAME = mrc155	DESIGNED - BTW	REVISED -
FILENAME = D:\NNNN-sht-TSP-Install-Algon-2018	DRAWN - BTW	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - GR	REVISED -
PLOT DATE = 4/25/2018	DATE - 4-26-2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

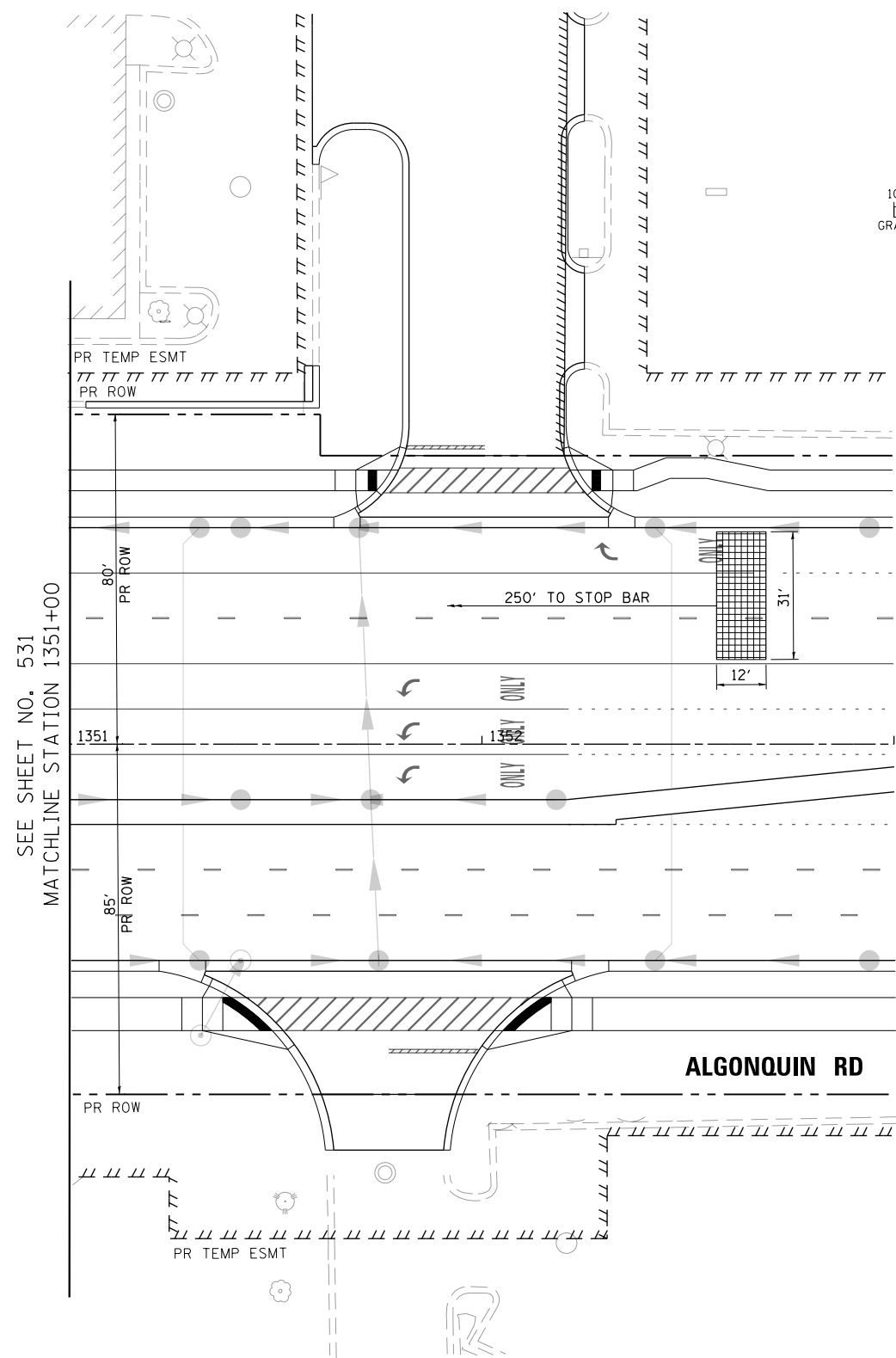
**TRAFFIC SIGNAL MODERNIZATION PLAN
RANDALL RD AND ALGONQUIN RD**

SCALE: 1" = 20' SHEET 30 OF 66 SHEETS STA TO STA

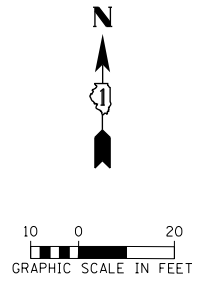
FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-01-PW	MCHENRY	1751	532
CONTRACT NO.			61E53	
ILLINOIS FED. AID PROJECT				



MATCH LINE STATION 1347+25
SEE SHEET NO. 531



SEE SHEET NO. 531
MATCHLINE STATION 1351+00



USER NAME = mrciss	DESIGNED - BTW	REVISED -
FILENAME = D:\NNNN-sht-TSP-Install-Algon	DRAWN - BTW	REVISED -
PLOT SCALE = 40.0588' / in.	CHECKED - GR	REVISED -
PLOT DATE = 4/25/2018	DATE - 4-26-2018	REVISED -

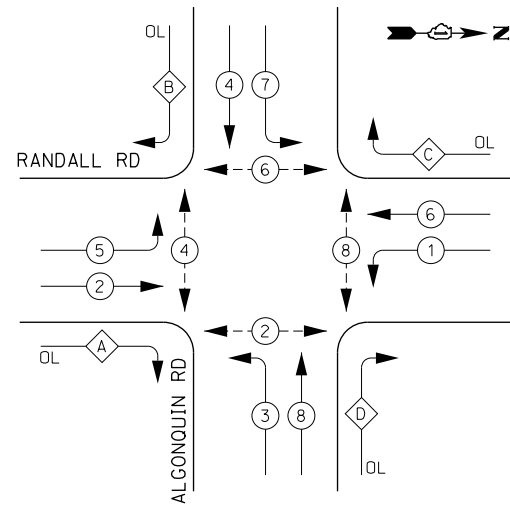
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
RANDALL RD AND ALGONQUIN RD

SCALE: 1" = 20' SHEET 31 OF 66 SHEETS STA TO STA

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-01-PW	MCHENRY	1751	533
CONTRACT NO. 61E53				
ILLINOIS FED. AID PROJECT				

PROPOSED CONTROLLER SEQUENCE



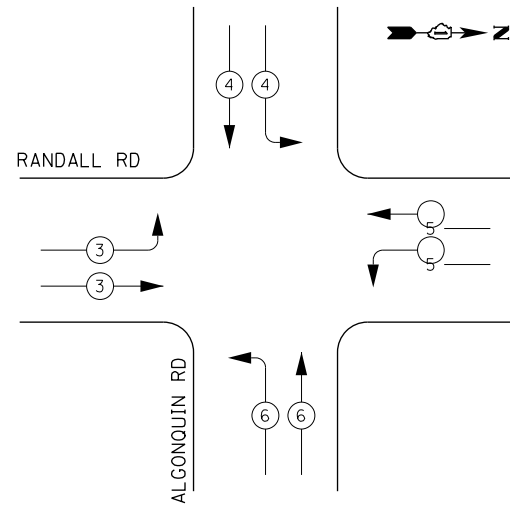
LEGEND:

- ← * → PROTECTED PHASE
- ← * - - → PROTECTED/PERMITTED PHASE
- ← * → PEDESTRIAN PHASE
- ← * OL → OVERLAP

RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	= 2	+ 3
B	= 4	+ 5
C	= 6	+ 7
D	= 8	+ 1

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



IDOT Traffic Signal Installation Electrical Service Requirements

Type	Number of Lamps	LED Wattage	% Operations	Total Wattage
Signal				
Red	28	11	50%	154.0
Yellow	28	20	5%	28.0
Green	28	12	45%	151.2
Prot-Perm Arrow	16	10	10%	16.0
Ped. Signal	8	20	100%	160.0
Controller	2	100	100%	200.0
UPS	1	25	100%	25.0
Video System		115	100%	
Blank-Out Sign		25	5%	
Flasher			50%	
Street Name Sign	4	120	50%	240.0
Luminaire		285	50%	
Total Intersection Wattage				974.2

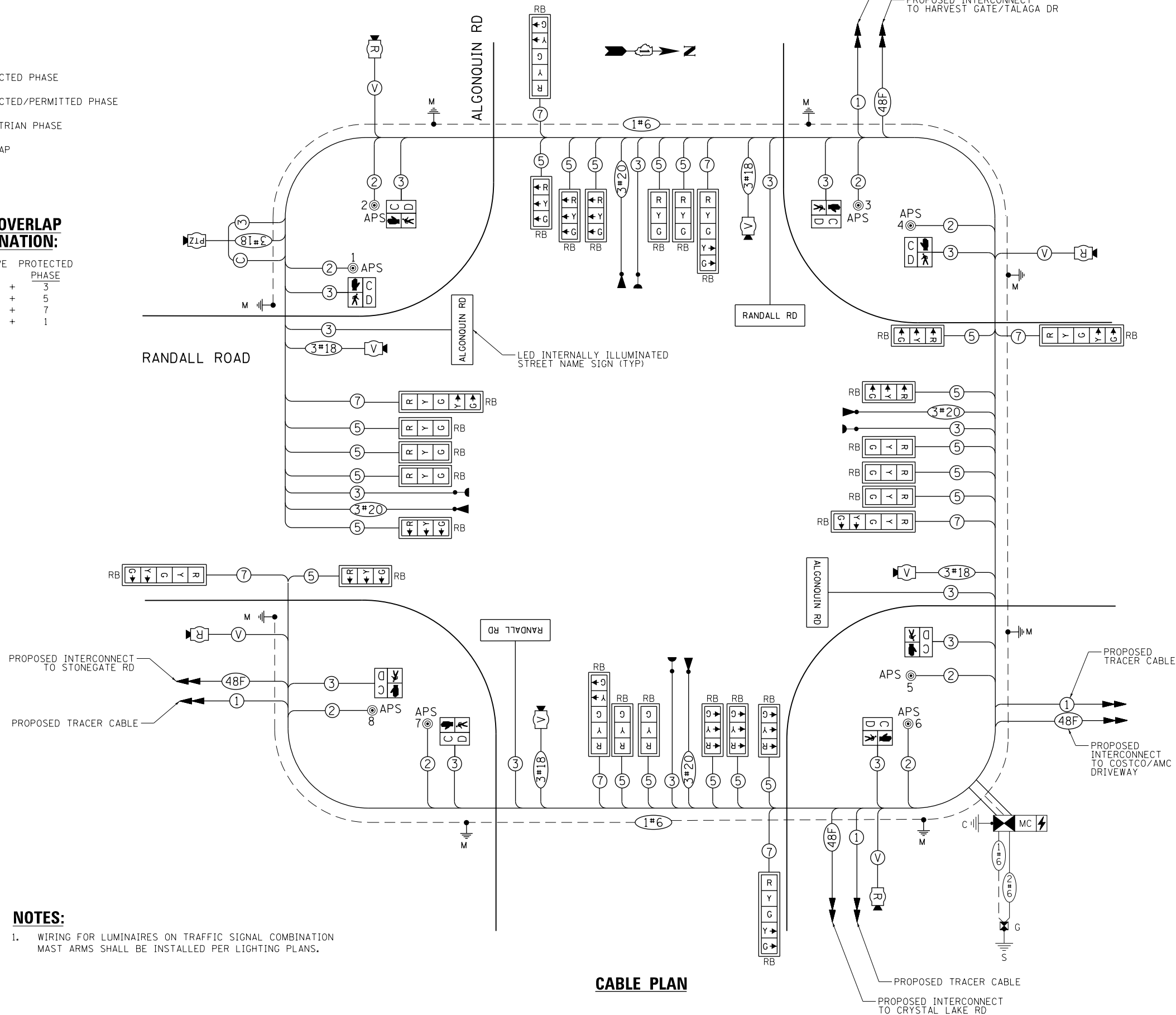
ENERGY COSTS TO:

VILLAGE OF LAKE IN THE HILLS
600 HARVEST GATE ROAD
LAKE IN THE HILLS, ILLINOIS 60156

ENERGY SUPPLY: CONTACT: _____
PHONE: () - - - -
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: _____

NOTES:

1. WIRING FOR LUMINAIRES ON TRAFFIC SIGNAL COMBINATION MAST ARMS SHALL BE INSTALLED PER LIGHTING PLANS.



CABLE PLAN

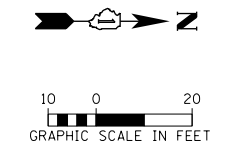
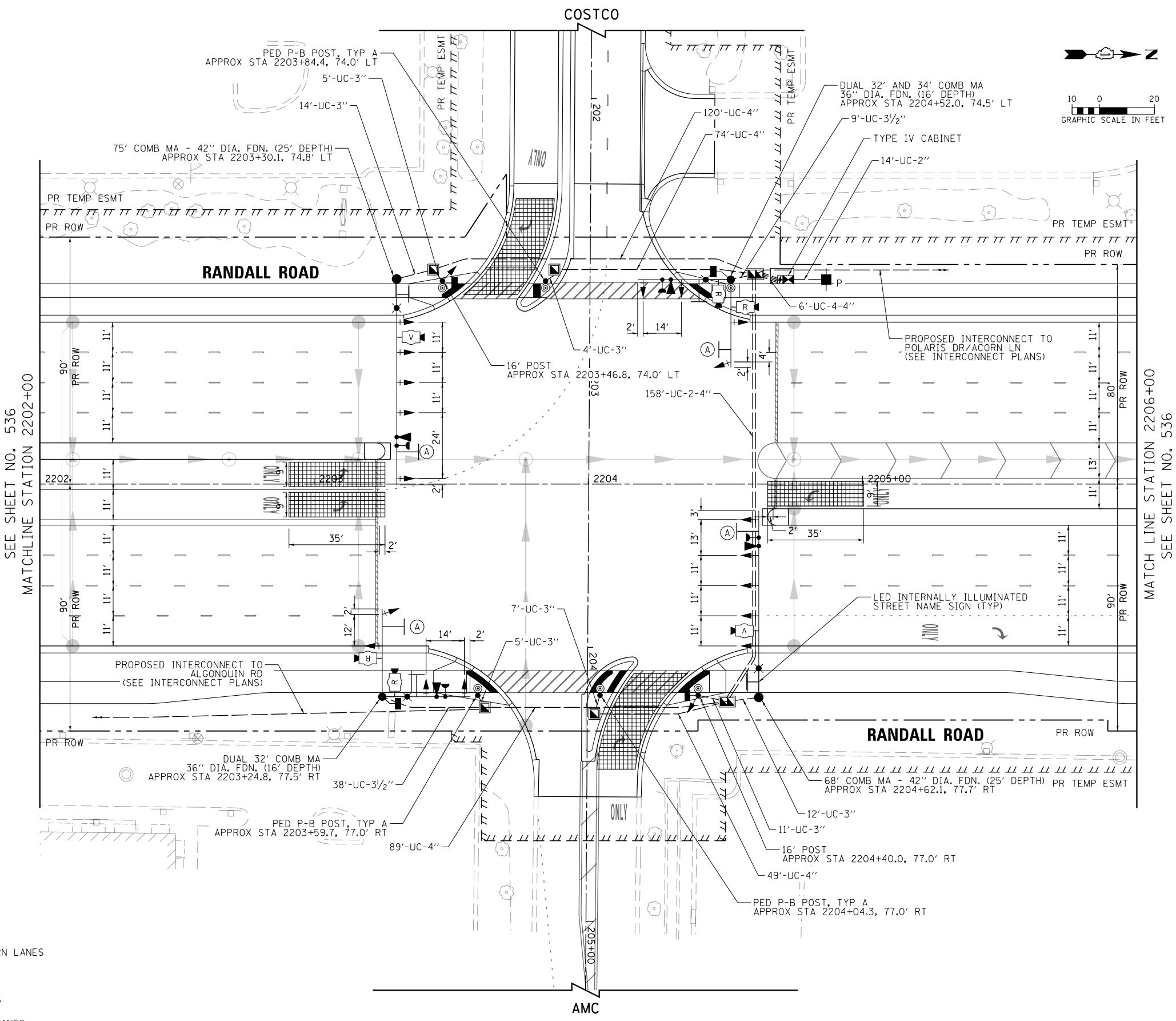


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, SCHEDULE OF QUANTITIES, PHASE DESIGNATION DIAGRAM
RANDALL RD AND ALGONQUIN RD

SCALE: NONE SHEET 32 OF 66 SHEETS STA TO STA

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-01-PW	MCHENRY	1751	534
			CONTRACT NO. 61E53	
ILLINOIS FED. AID PROJECT				



(A) LEFT ON GREEN ARROW ONLY
 R10-5
 30"x36"
 SIGN PANEL - TYPE 1
 (4 REQUIRED)

NOTES:

1. THE MOUNTING LOCATIONS OF THE VIDEO AND RADAR DETECTORS WILL BE DETERMINED PER THE MANUFACTURER'S RECOMMENDATIONS.
2. LUMINAIRE ARMS ON ALL TRAFFIC SIGNAL COMBINATION MAST ARM ASSEMBLY AND POLES SHALL BE 20 FT.
3. THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.
4. SEPARATE CONDUITS FOR LIGHTING AND TRAFFIC SIGNALS SHALL BE INSTALLED IN THE FOUNDATIONS FOR COMBINATION MAST ARM ASSEMBLY AND POLE. SEE LIGHTING PLANS FOR LIGHTING CONDUIT DETAIL.
5. VIDEO DETECTION SHALL BE USED AT THE FOLLOWING LOCATIONS:
 - STOP BAR DETECTION ON NORTHBOUND AND SOUTHBOUND LEFT TURN LANES (RANDALL RD)
 RADAR DETECTION SHALL BE USED AT THE FOLLOWING LOCATIONS:
 - STOP BAR DETECTION ON EASTBOUND AND WESTBOUND APPROACHES (COSTCO AND AMC DRIVEWAYS)
 - ADVANCE DETECTION ON NORTHBOUND AND SOUTHBOUND THROUGH LANES (RANDALL RD)

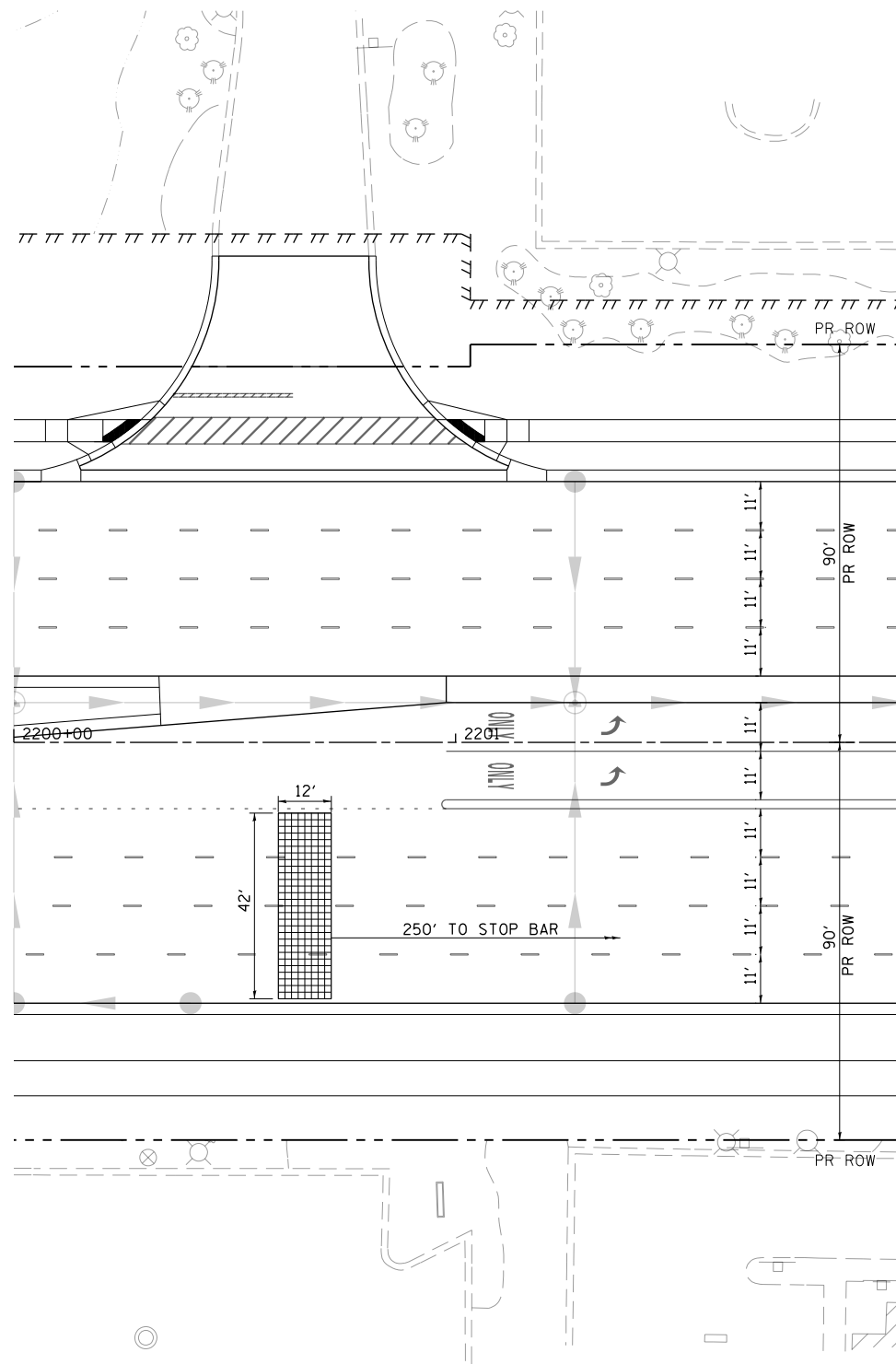
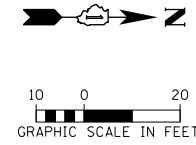


USER NAME = mrc155	DESIGNED - BTW	REVISED -
FILENAME = D:\NNNN-sht-TSP-Install-Costco	DRAWN - BTW	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - GR	REVISED -
PLOT DATE = 4/25/2018	DATE - 4-26-2018	REVISED -

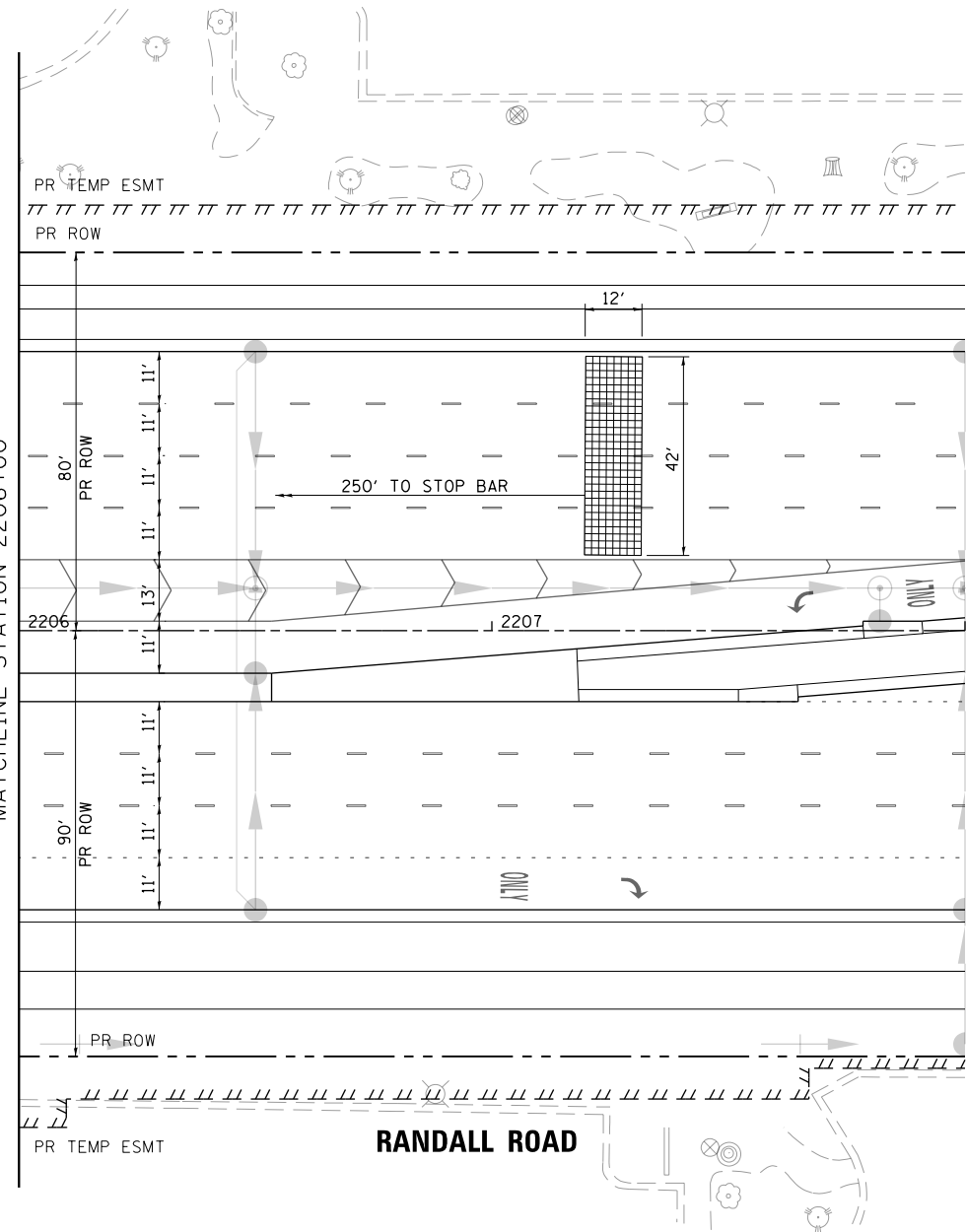
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODERNIZATION PLAN
 RANDALL RD AND COMMERCIAL DR (COSTCO)**
 SCALE: 1" = 20' SHEET 33 OF 66 SHEETS STA 2202+00 TO STA 2206+00

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-01-PW	MCHENRY	1751	535
CONTRACT NO. 61E53			ILLINOIS FED. AID PROJECT	



MATCH LINE STATION 2202+00
SEE SHEET NO. 535



SEE SHEET NO. 535
MATCHLINE STATION 2206+00

USER NAME = mrc1ss	DESIGNED - BTW	REVISED -
FILENAME = D:\NNNN-sht-TSP-Install-Costco	DRAWN - BTW	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - GR	REVISED -
PLOT DATE = 4/25/2018	DATE - 4-26-2018	REVISED -

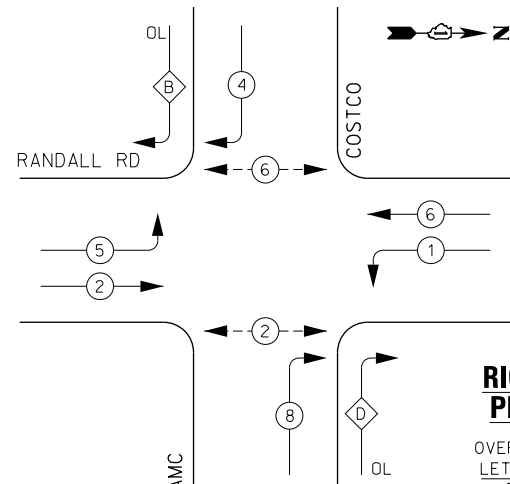
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODERNIZATION PLAN
RANDALL RD AND COMMERCIAL DR (COSTCO)**

SCALE: 1" = 20' SHEET 34 OF 66 SHEETS STA TO STA

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-01-PW	MCHENRY	1751	536
CONTRACT NO.			61E53	
ILLINOIS FED. AID PROJECT				

PROPOSED CONTROLLER SEQUENCE



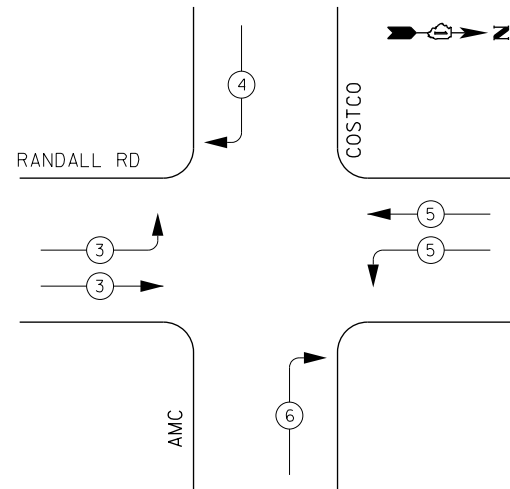
LEGEND:

- ←*→ PROTECTED PHASE
- ←*→ PROTECTED/PERMITTED PHASE
- ←*→ PEDESTRIAN PHASE
- ←*→ OL OVERLAP

RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
B	= 4	+ 5
D	= 8	+ 1

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



IDOT

Traffic Signal Installation Electrical Service Requirements

Type	Number of Lamps	LED Wattage	% Operations	Total Wattage
Signal	Red	20	50%	110.0
	Yellow	20	5%	20.0
	Green	20	45%	108.0
Permissive Arrow		10	10%	
Ped. Signal	4	20	100%	80.0
Controller	1	100	100%	100.0
UPS	1	25	100%	25.0
Video System		115	100%	
Blank-Out Sign		25	5%	
Flasher			50%	
Street Name Sign	4	120	50%	240.0
Luminaire		285	50%	
Total Intersection Wattage				683.0

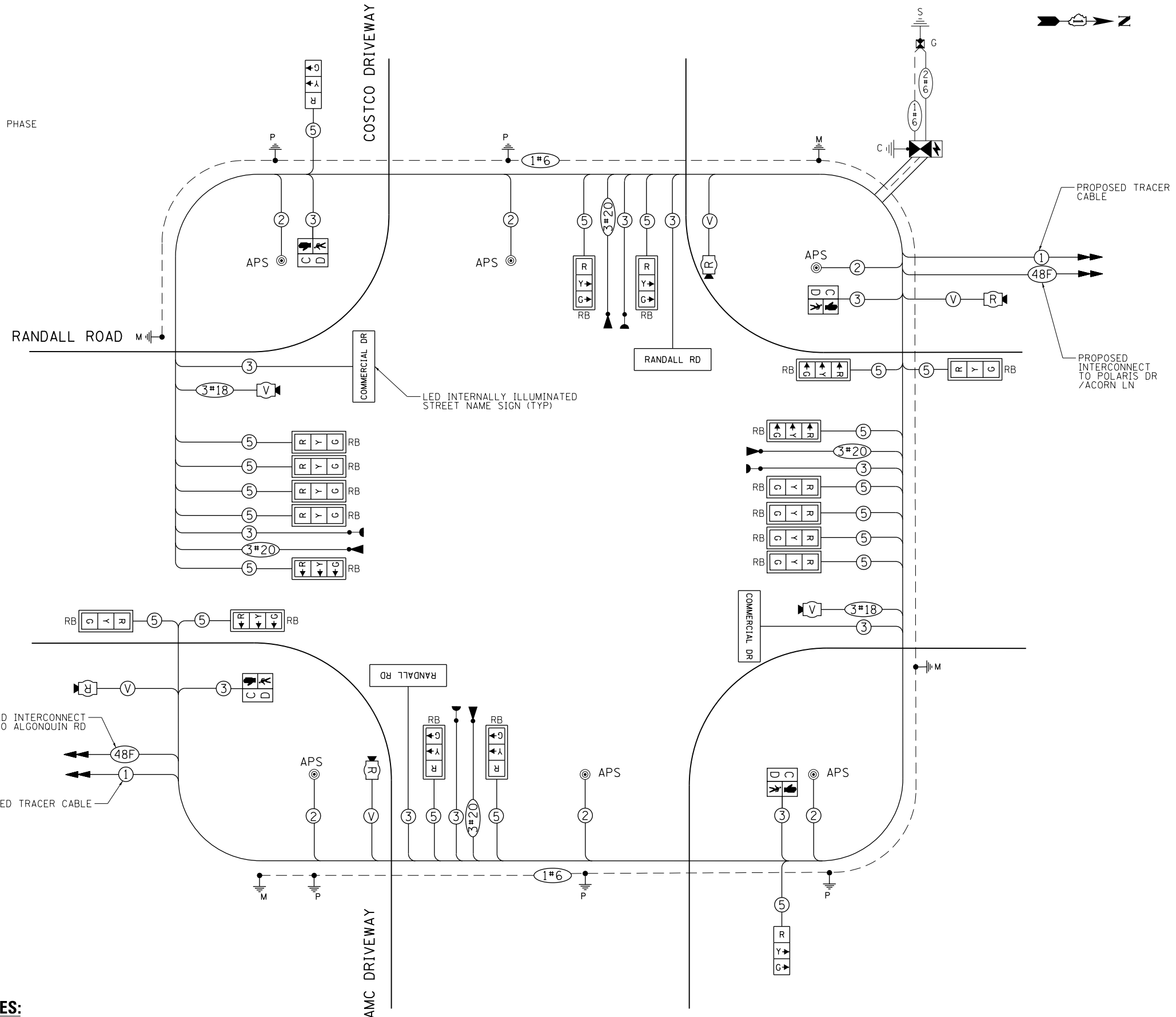
ENERGY COSTS TO:

VILLAGE OF LAKE IN THE HILLS
600 HARVEST GATE ROAD
LAKE IN THE HILLS, ILLINOIS 60156

ENERGY SUPPLY: CONTACT: _____
PHONE: (____) _____
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: _____

NOTES:

1. WIRING FOR LUMINAIRES ON TRAFFIC SIGNAL COMBINATION MAST ARMS SHALL BE INSTALLED PER LIGHTING PLANS.



CABLE PLAN



**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CABLE PLAN, SCHEDULE OF QUANTITIES, PHASE DESIGNATION DIAGRAM
RANDALL RD AND COMMERCIAL DR (COSTCO)**

SCALE: NONE SHEET 35 OF 66 SHEETS STA TO STA

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-01-PW	MCHENRY	1751	537
			CONTRACT NO. 61E53	
ILLINOIS FED. AID PROJECT				

NOTES:

1. THE TEMPORARY TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.
2. DUE TO THE PRESENCE OF A RED LIGHT RUNNING (RLR) CAMERA AT THIS INTERSECTION, THE CONTRACTORS SHALL NOTIFY THE VILLAGE AND RLR CAMERA COMPANY PRIOR TO THE START OF CONSTRUCTION. THE VILLAGE OR THE RLR CAMERA COMPANY SHALL MAKE THE CAMERA INOPERATIVE FOR THE TIME OF CONSTRUCTION. ANY RLR CAMERA EQUIPMENT THAT IS IN CONFLICT WITH THE PROPOSED CONSTRUCTION SHALL BE REMOVED BY ITS RESPECTIVE OWNERS PRIOR TO THE START OF CONSTRUCTION. THE RLR CAMERA COMPANY FOR THIS INTERSECTION IS:
 REDFLEX TRAFFIC SYSTEMS, INC.
 23751 N. 23RD AVE., STE 150
 PHOENIX, AZ 85085-1854
 PHONE: 623-207-2000

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND DELIVER ALL EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

AGENCY: ALGONQUIN - LAKE IN THE HILLS FIRE PROTECTION DISTRICT

- 4 EACH LIGHT DETECTOR
- 4 EACH CONFIRMATION BEACON
- 1 EACH LIGHT DETECTOR AMPLIFIER

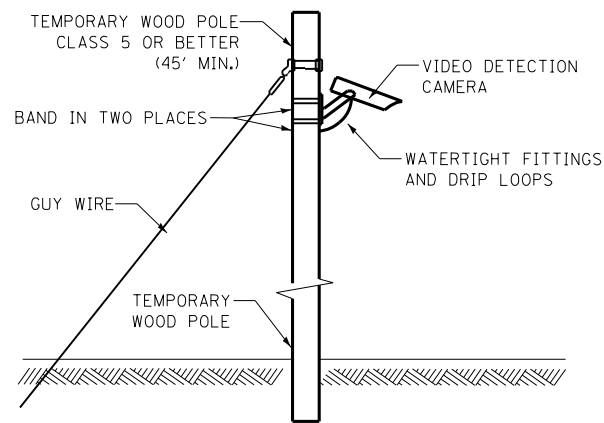
THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND DELIVER ALL EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

AGENCY: MCHENRY COUNTY - DIVISION OF TRANSPORTATION

- 4 EACH VEHICLE DETECTION CAMERA
- 1 EACH CONTROLLER AND CABINET (COMPLETE)
- 1 EACH UNINTERRUPTABLE POWER SUPPLY

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 14 EACH 3-SECTION SIGNAL HEAD
- 6 EACH 5-SECTION SIGNAL HEAD
- 12 EACH TRAFFIC SIGNAL BACKPLATE
- 4 EACH STEEL COMB MAST ARM AND POLE WITH LUMINAIRE
- 4 EACH TRAFFIC SIGNAL POST
- 1 EACH SERVICE INSTALLATION



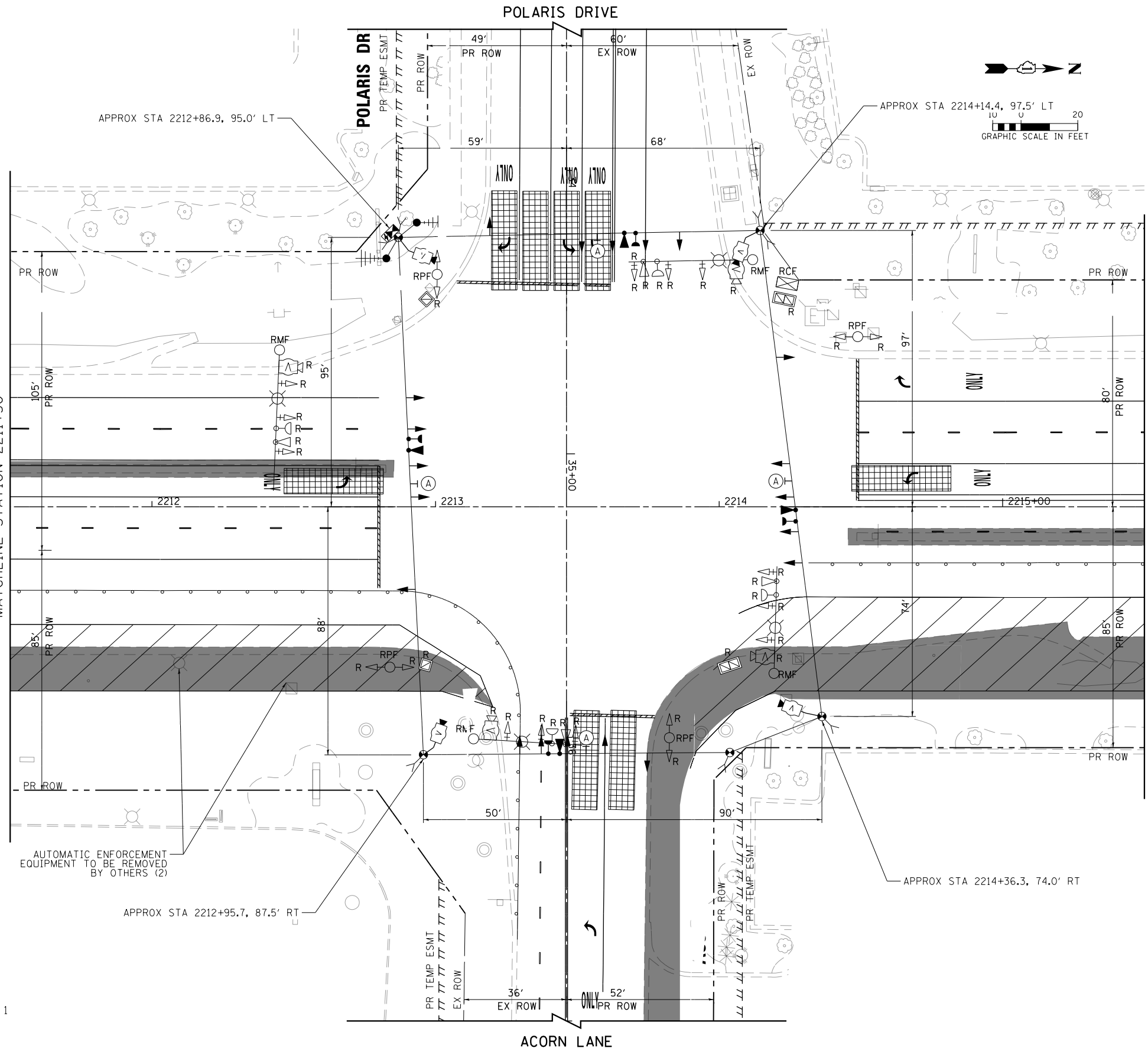
TEMPORARY VIDEO DETECTION MOUNTING DETAIL (NOT TO SCALE)

LEFT ON GREEN ARROW ONLY

R10-5
 4 REQUIRED
 30"X36"
 SIGN PANEL TYPE 1
 (A)
 INCLUDED IN THE COST OF TEMPORARY TRAFFIC SIGNAL INSTALLATION

SEE SHEET NO. 537
 MATCHLINE STATION 2211+50

MATCHLINE STATION 2215+50
 SEE SHEET NO. 539



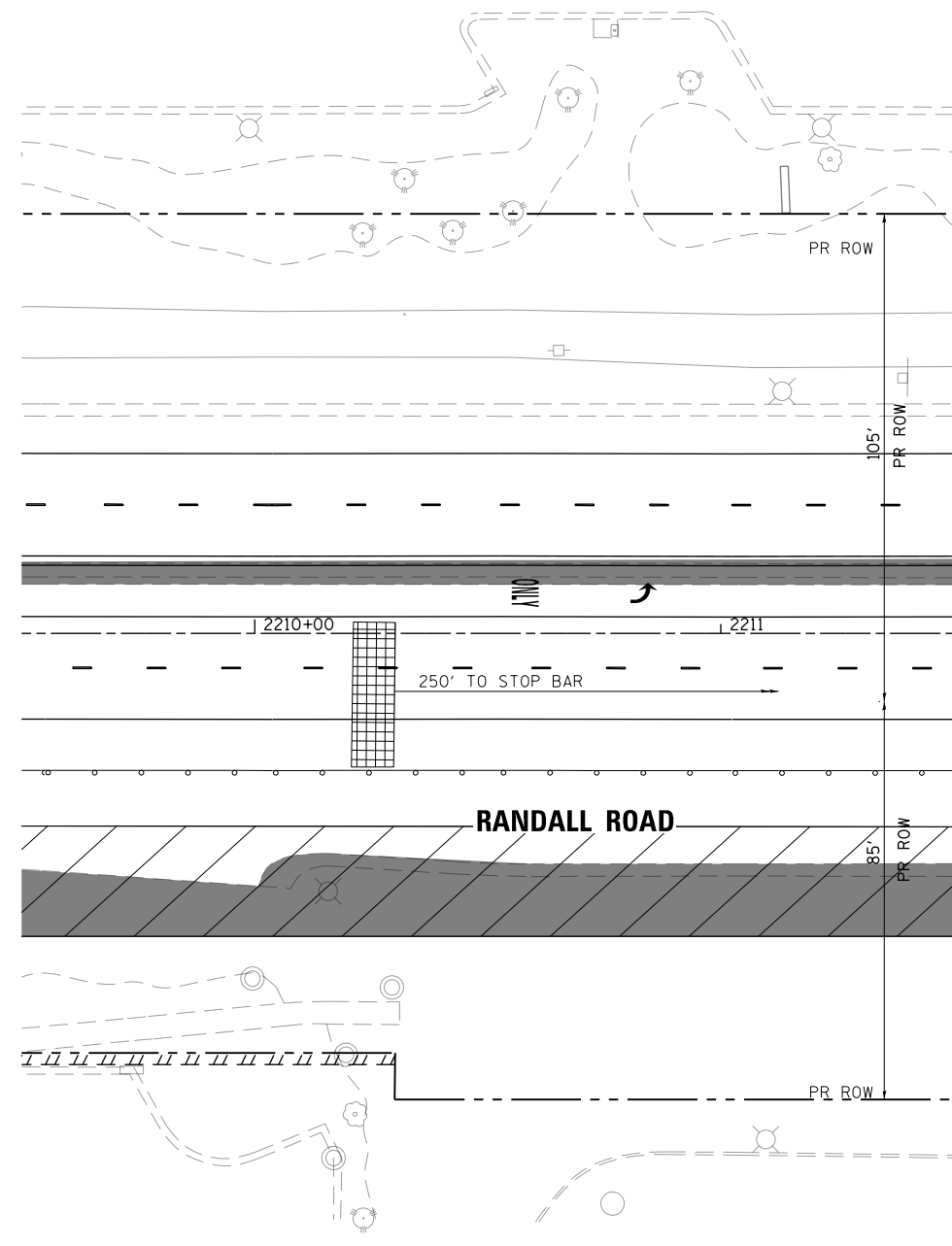
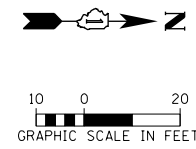
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FILENAME = D:\NNNN-sht-TST-Install-Polaris	DRAWN - BTW	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - GR	REVISED -
PLOT DATE = 4/25/2018	DATE - 4-26-2018	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

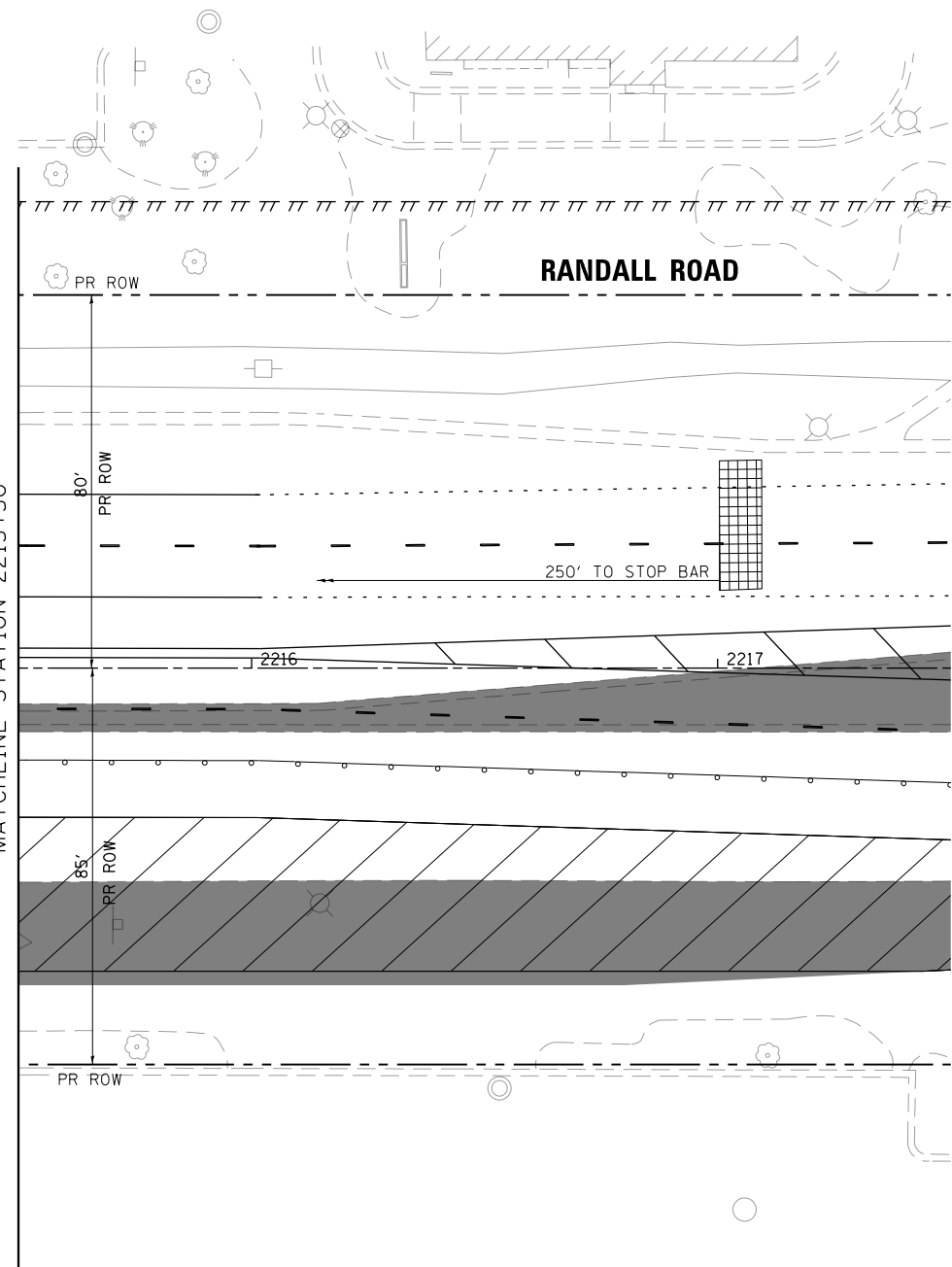
**TEMPORARY TRAFFIC SIGNAL INSTALLATION & REMOVAL PLAN
 RANDALL RD AND POLARIS DR / ACORN LN**

SCALE: 1" = 20' SHEET 36 OF 66 SHEETS STA 2211+00 TO STA 2216+00

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-01-PW	MCHENRY	1751	538
CONTRACT NO.			61E53	
ILLINOIS FED. AID PROJECT				



MATCH LINE STATION 2211+50
SEE SHEET NO. 538



SEE SHEET NO. 538
MATCHLINE STATION 2215+50



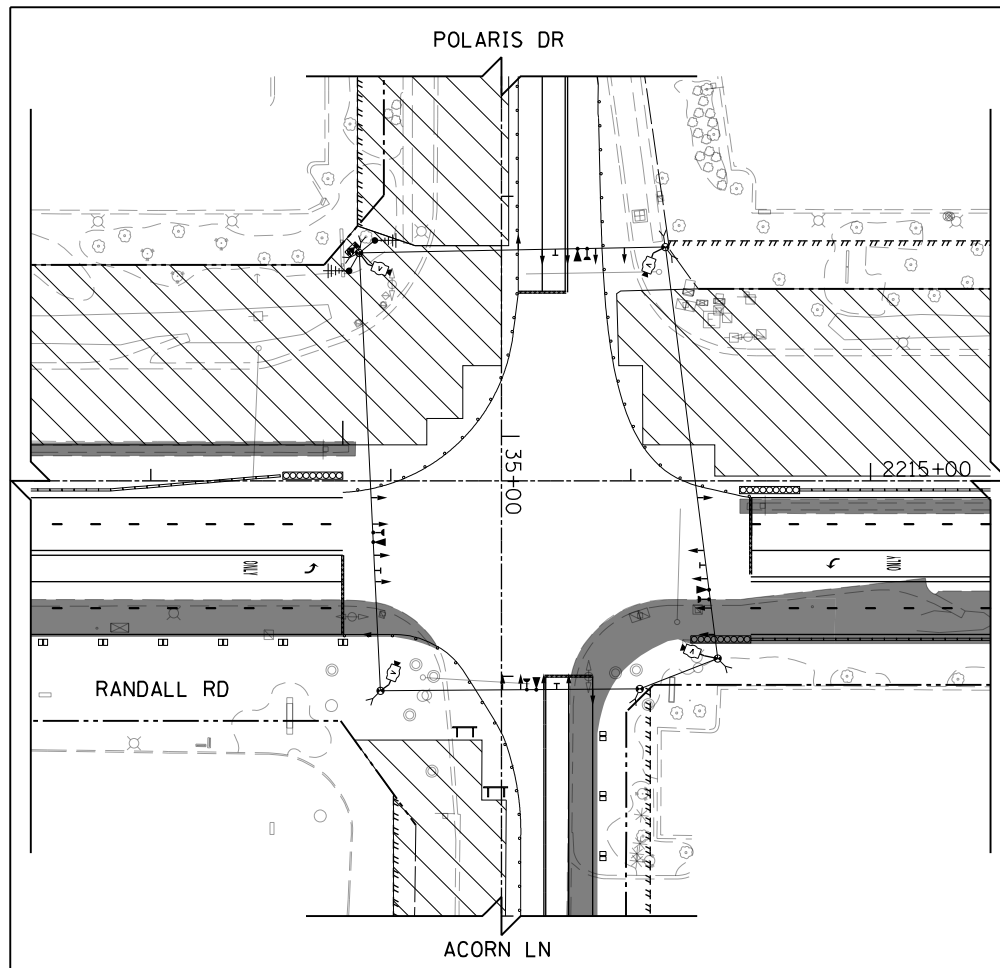
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FILENAME = D:\NNNN-sht-TST-Install-Polaris	DRAWN - BTW	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - GR	REVISED -
PLOT DATE = 4/25/2018	DATE - 4-26-2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

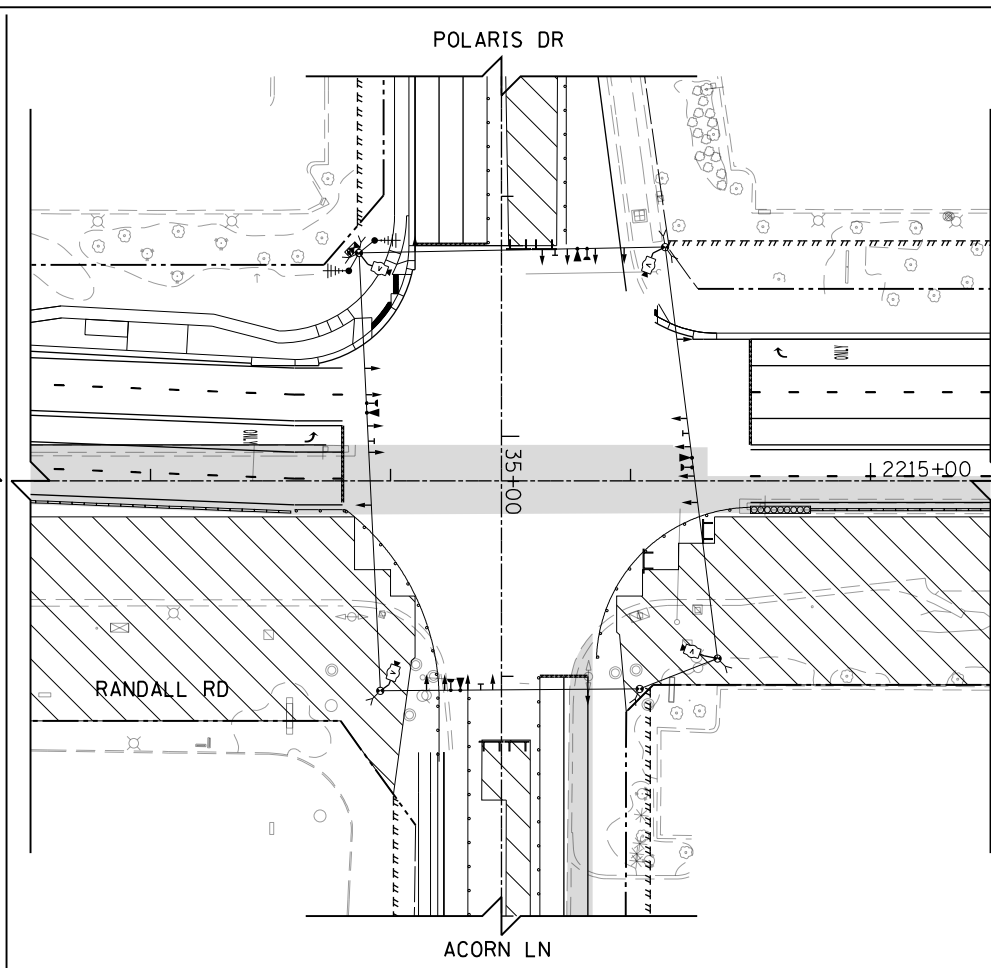
**TEMPORARY TRAFFIC SIGNAL INSTALLATION & REMOVAL PLAN
RANDALL RD AND POLARIS DR /ACORN LN**

SCALE: 1" = 20' SHEET 37 OF 66 SHEETS STA TO STA

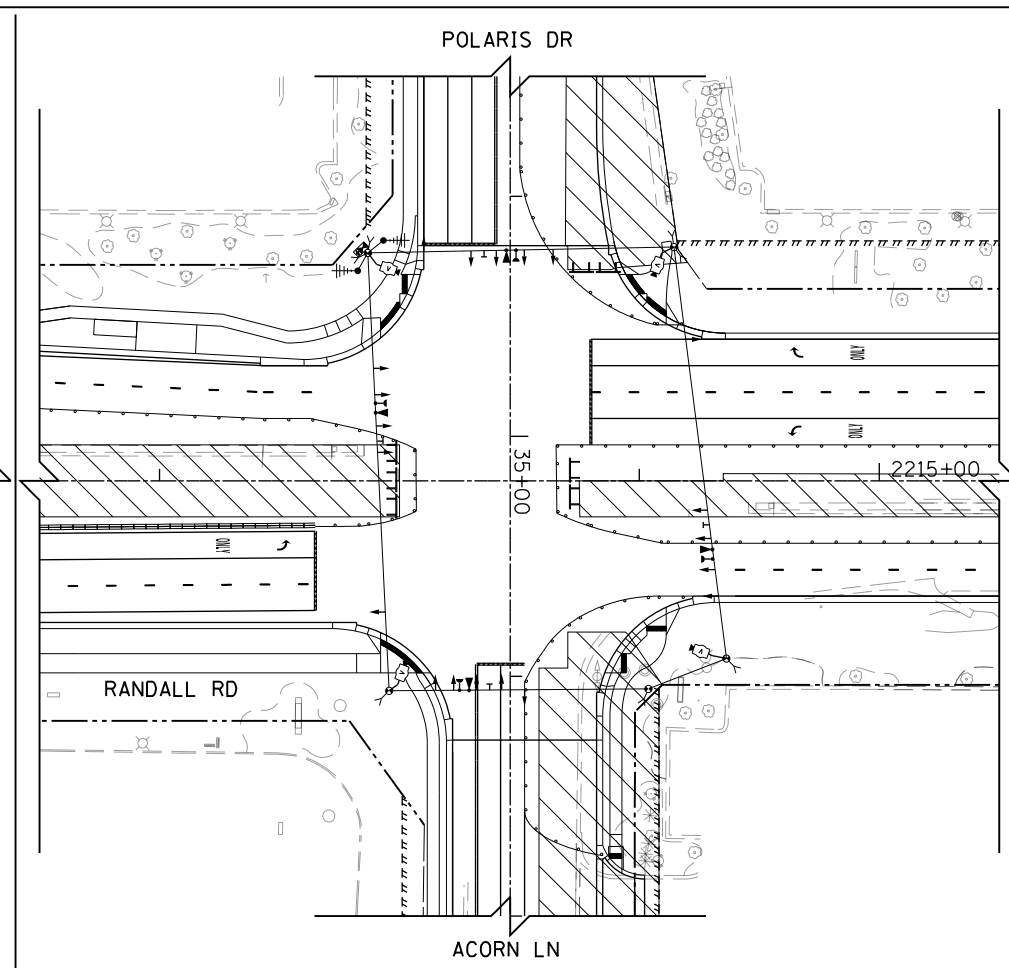
FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-01-PW	MCHENRY	1751	539
CONTRACT NO.			61E53	
ILLINOIS FED. AID PROJECT				



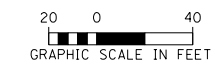
TEMPORARY TRAFFIC SIGNAL STAGE 1



TEMPORARY TRAFFIC SIGNAL STAGE 2



TEMPORARY TRAFFIC SIGNAL STAGE 3



USER NAME = mrc1ss	DESIGNED - BTW	REVISED -
FILENAME = D:\NNNN-sht-TST-MOT-Polaris.dgn	DRAWN - BTW	REVISED -
PLOT SCALE = 80.0000' / in.	CHECKED - GR	REVISED -
PLOT DATE = 4/25/2018	DATE - 4-26-2018	REVISED -

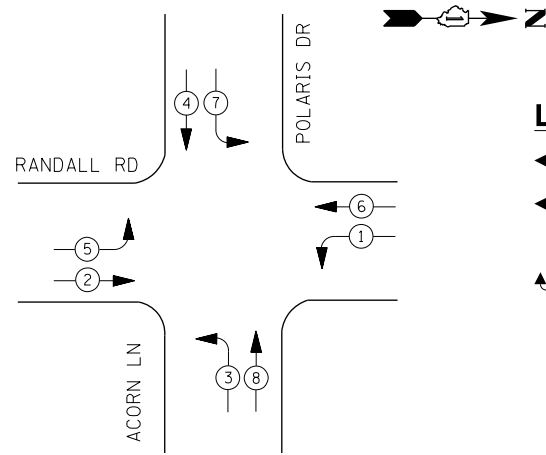
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY TRAFFIC SIGNAL INSTALLATION, M.O.T. STAGING PLAN
RANDALL RD AND POLARIS DR / ACORN LN**

SCALE: 1" = 40' SHEET 38 OF 66 SHEETS STA TO STA

FAP RTE 336	SECTION 06-00329-01-PW	COUNTY MCHENRY	TOTAL SHEETS 1751	SHEET NO. 540
CONTRACT NO. 61E53			ILLINOIS FED. AID PROJECT	

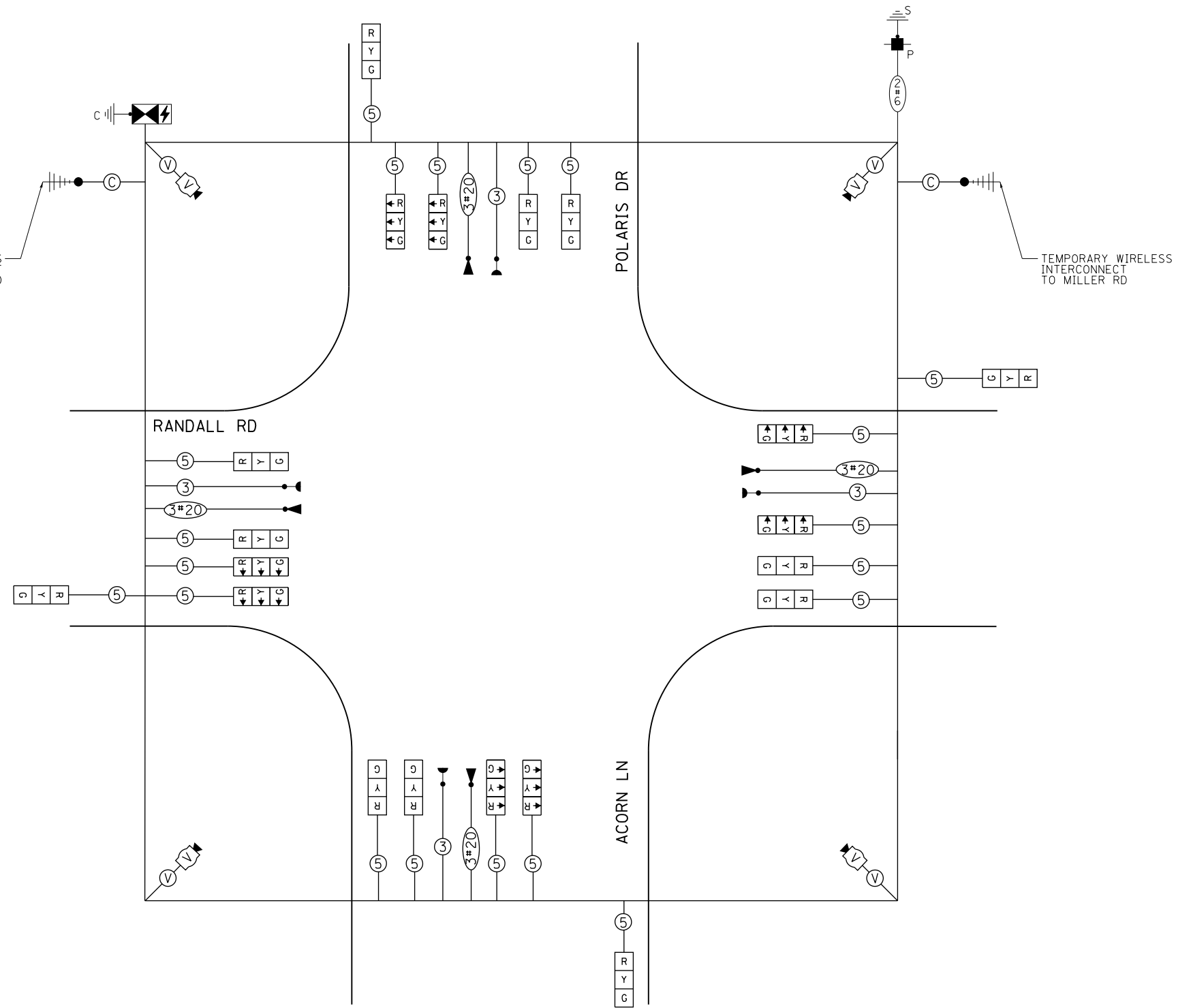
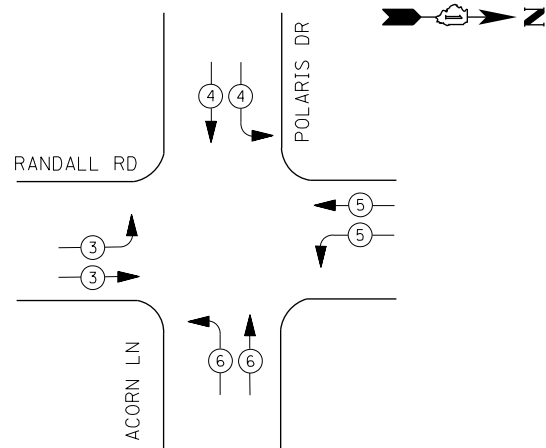
TEMPORARY CONTROLLER SEQUENCE



LEGEND:

- ← * → PROTECTED PHASE
- ← * → PROTECTED/PERMITTED PHASE
- ← * → PEDESTRIAN PHASE
- ← OL → OVERLAP

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE



**TEMPORARY CABLE PLAN
(ALL STAGES)**

**IDOT
Traffic Signal Installation
Electrical Service Requirements**

Type	Number of Lamps	LED Wattage	% Operations	Total Wattage
Signal	Red	18	50%	99.0
	Yellow	18	5%	18.0
	Green	18	45%	97.2
Prot-Perm Arrow		10	10%	
Ped. Signal		20	100%	
Controller	1	100	100%	100.0
UPS	1	25	100%	25.0
Video System	1	150	100%	150.0
Blank-Out Sign		25	5%	
Flasher			50%	
Street Name Sign		120	50%	
Luminaire		285	50%	
Total Intersection Wattage				489.2

ENERGY COSTS TO:

VILLAGE OF LAKE IN THE HILLS
600 HARVEST GATE ROAD
LAKE IN THE HILLS, ILLINOIS 60156

ENERGY SUPPLY: CONTACT: _____
PHONE: (____) _____
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: _____

USER NAME = mrc155	DESIGNED - BTW	REVISED -
FILENAME = D:\N\N\N\sh-t-TST-Cable-Polaris.d	DRAWN - BTW	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - GR	REVISED -
PLOT DATE = 4/25/2018	DATE - 4-26-2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY CABLE PLAN, PHASE DESIGNATION DIAGRAM
RANDALL ROAD AND POLARIS DR / ACORN LN**

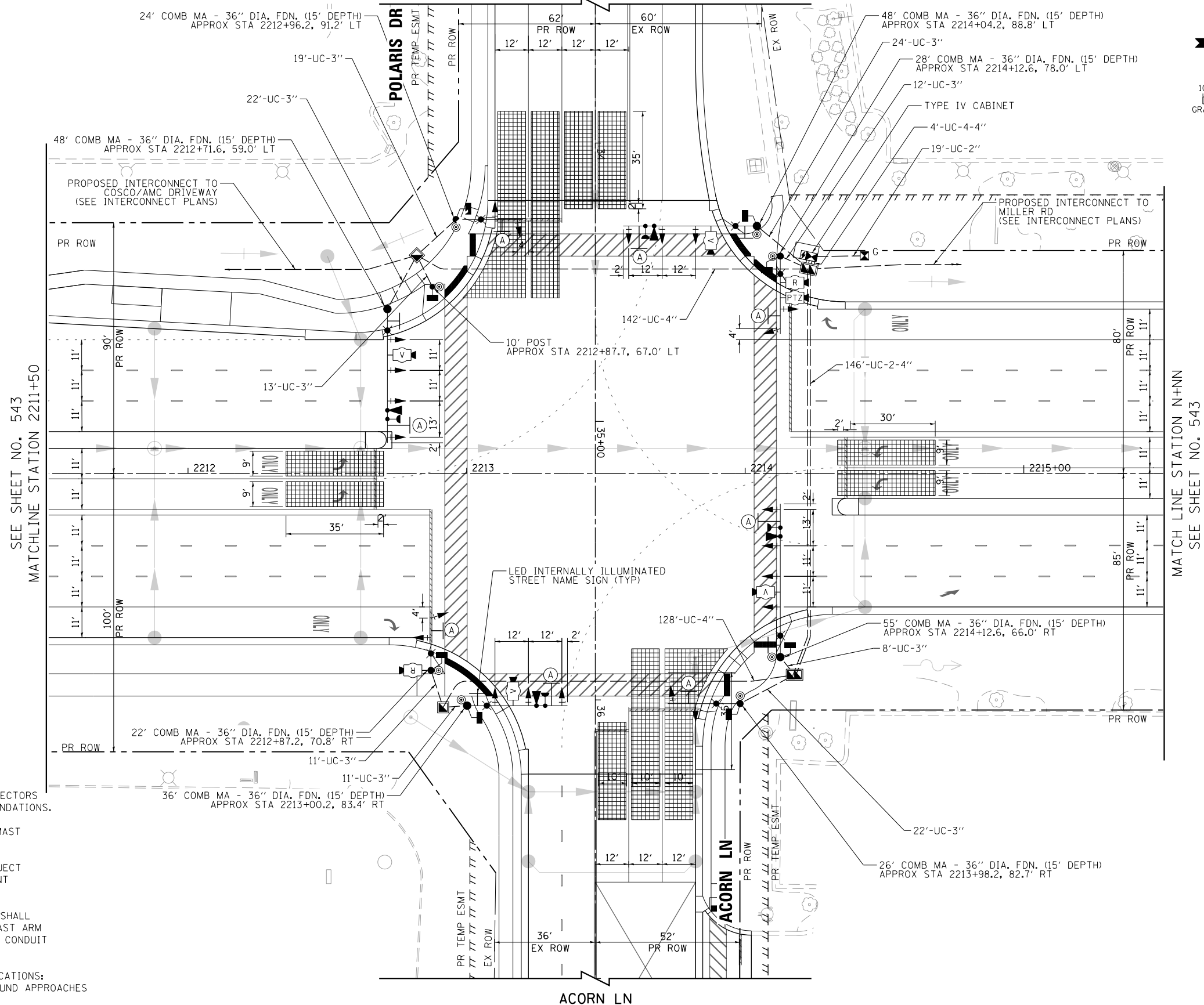
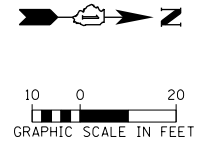
SCALE: NONE SHEET 39 OF 66 SHEETS STA TO STA

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-01-PW	MCHENRY	1751	541
			CONTRACT NO. 61E53	

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



POLARIS DR



A LEFT ON GREEN ARROW ONLY
 R10-5
 30"x36"
 SIGN PANEL - TYPE 1
 (8 REQUIRED)

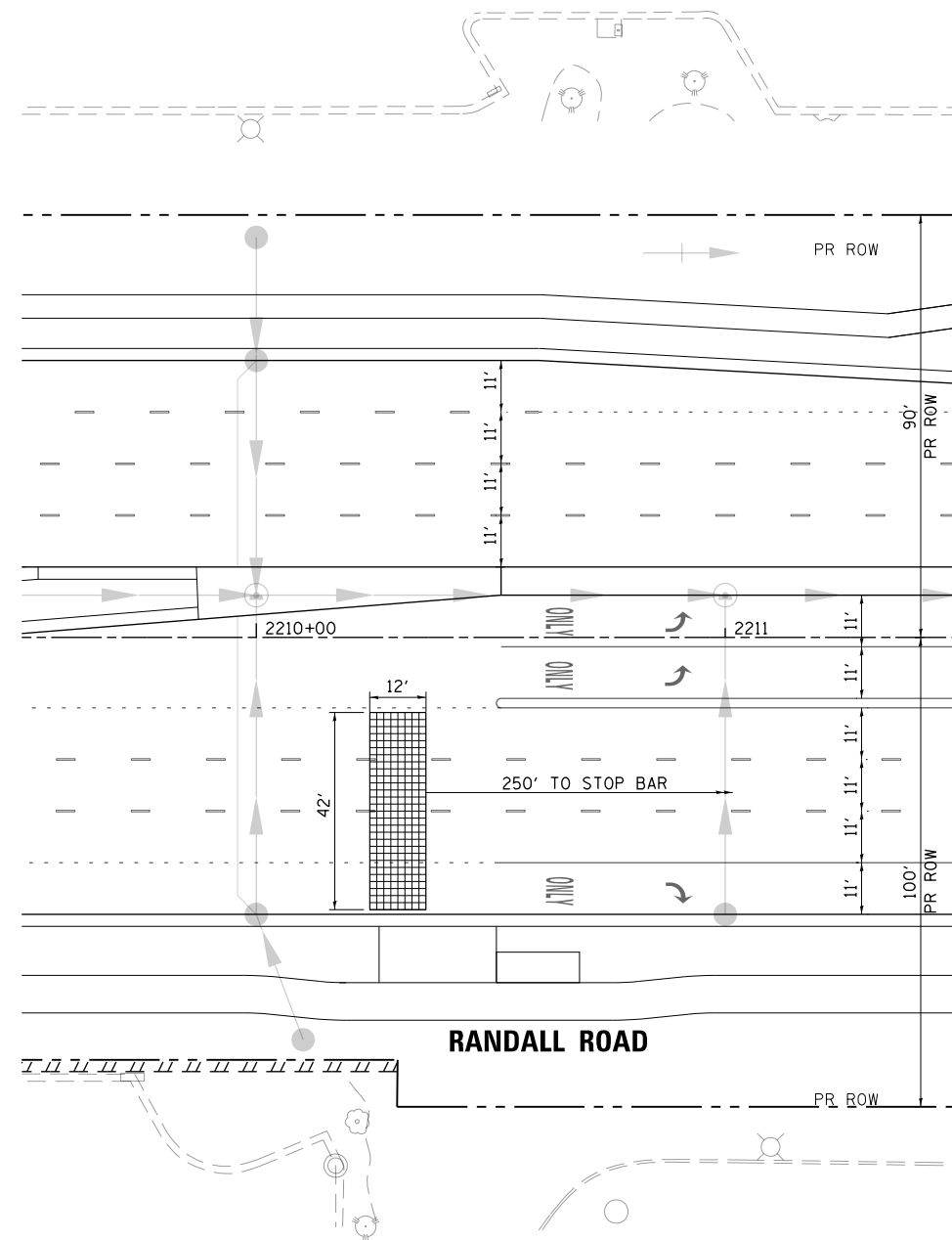
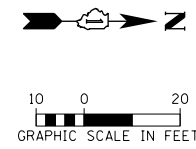
- NOTES:**
1. THE MOUNTING LOCATIONS OF THE VIDEO AND RADAR DETECTORS WILL BE DETERMINED PER THE MANUFACTURER'S RECOMMENDATIONS.
 2. LUMINAIRE ARMS ON ALL TRAFFIC SIGNAL COMBINATION MAST ARM ASSEMBLY AND POLES SHALL BE 20 FT.
 3. THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.
 4. SEPARATE CONDUITS FOR LIGHTING AND TRAFFIC SIGNALS SHALL BE INSTALLED IN THE FOUNDATIONS FOR COMBINATION MAST ARM ASSEMBLY AND POLE. SEE LIGHTING PLANS FOR LIGHTING CONDUIT DETAIL.
 5. VIDEO DETECTION SHALL BE USED AT THE FOLLOWING LOCATIONS:
 - STOP BAR DETECTION ON EASTBOUND AND WESTBOUND APPROACHES (POLARIS DR AND ACORN LN)
 - STOP BAR DETECTION ON NORTHBOUND AND SOUTHBOUND LEFT TURN LANES (RANDALL RD)
- RADAR DETECTION SHALL BE USED AT THE FOLLOWING LOCATIONS:
- ADVANCE DETECTION ON NORTHBOUND AND SOUTHBOUND THROUGH LANES (RANDALL RD)

USER NAME = mrc155	DESIGNED - BTW	REVISED -
FILENAME = D:\NNNN-sht-TSP-Install-Polaris	DRAWN - BTW	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - GR	REVISED -
PLOT DATE = 4/25/2018	DATE - 4-26-2018	REVISED -

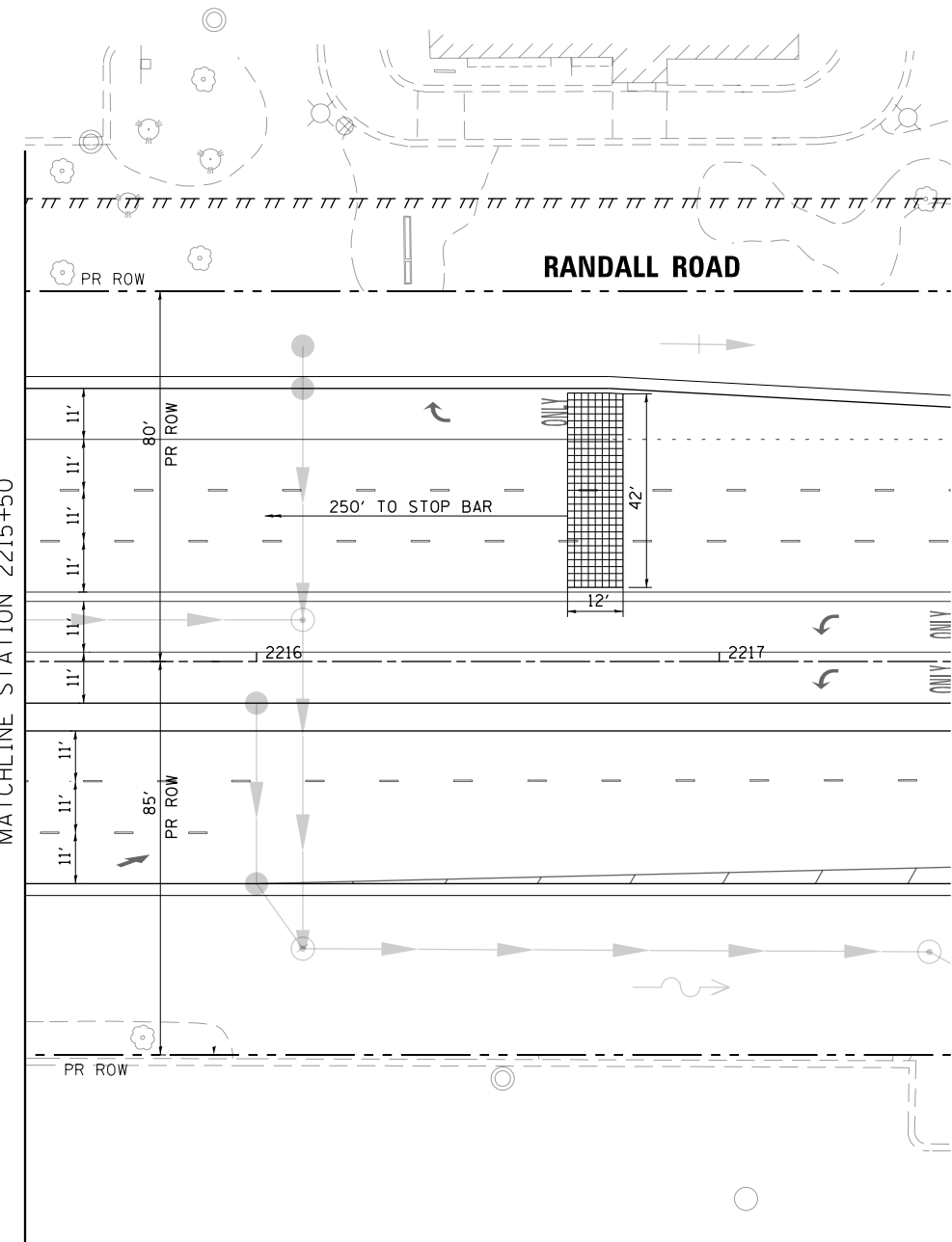
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
 RANDALL RD AND POLARIS DR / ACORN LN
 SCALE: 1" = 20' SHEET 40 OF 66 SHEETS STA 2211+50 TO STA 2215+50

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-01-PW	MCHENRY	1751	542
CONTRACT NO.			61E53	
ILLINOIS FED. AID PROJECT				



MATCH LINE STATION 2211+50
SEE SHEET NO. 542



SEE SHEET NO. 542
MATCHLINE STATION 2215+50



USER NAME = mrc1ss	DESIGNED - BTW	REVISED -
FILENAME = D:\NNNNN-sht-TSP-Install-Polaris	DRAWN - BTW	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - GR	REVISED -
PLOT DATE = 4/25/2018	DATE - 4-26-2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

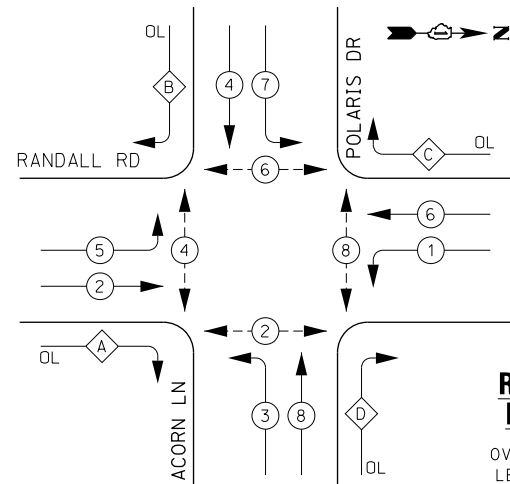
TRAFFIC SIGNAL MODERNIZATION PLAN
RANDALL RD AND POLARIS DR /ACORN LN

SCALE: 1" = 20' SHEET 41 OF 66 SHEETS STA TO STA

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-01-PW	MCHENRY	1751	543
CONTRACT NO.			61E53	

ILLINOIS FED. AID PROJECT

PROPOSED CONTROLLER SEQUENCE



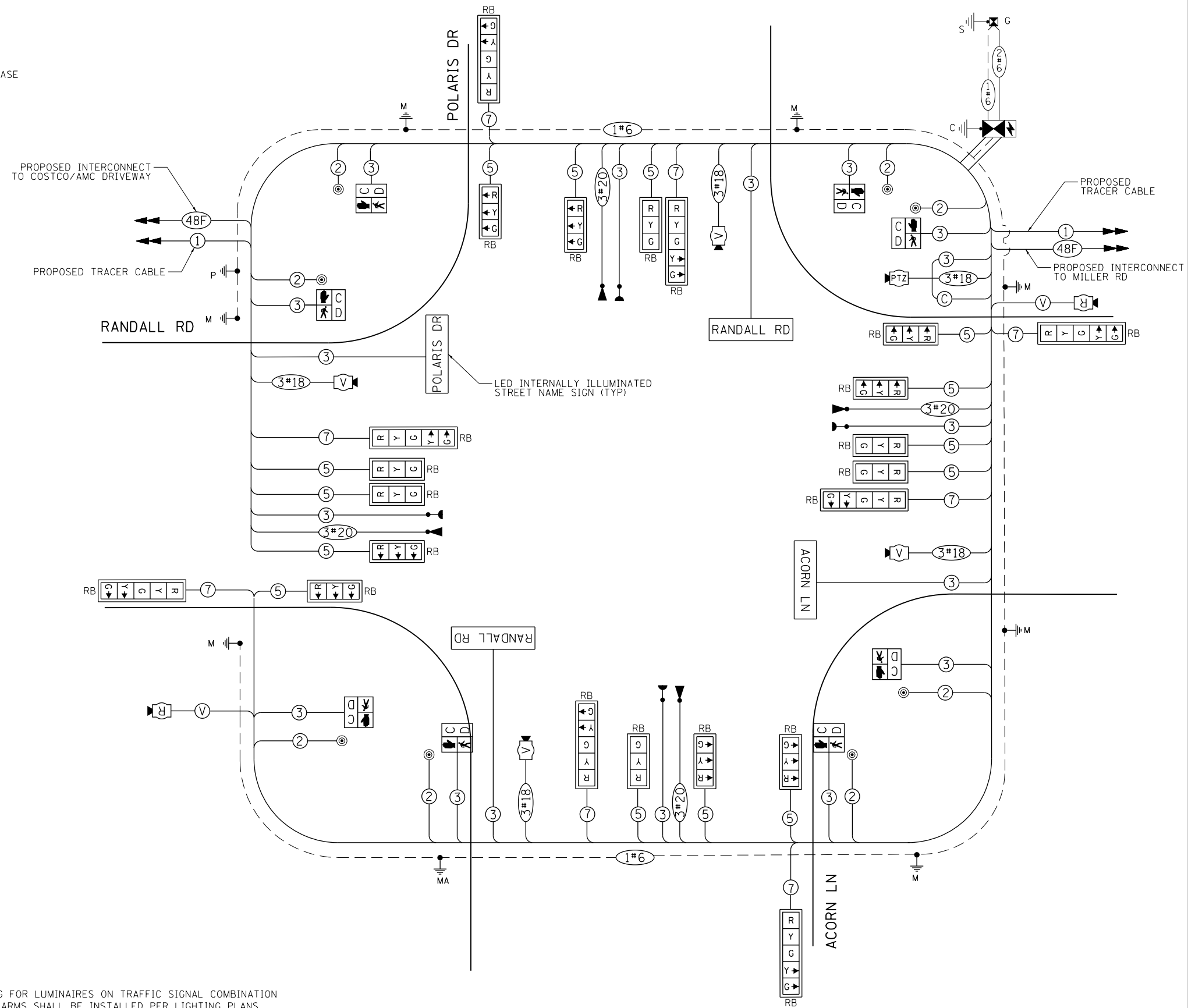
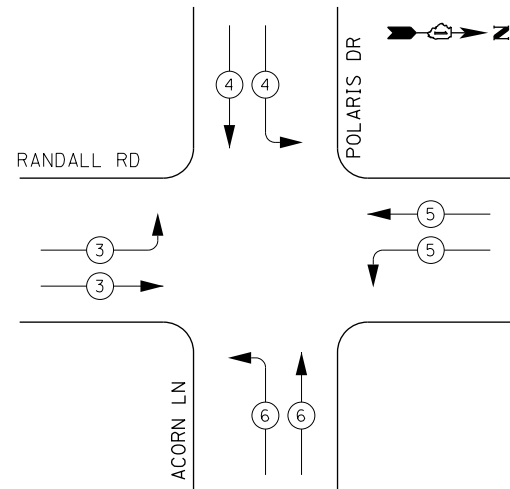
LEGEND:

- ← * → PROTECTED PHASE
- ← * - - → PROTECTED/PERMITTED PHASE
- ← * - - - → PEDESTRIAN PHASE
- ← * - - - - → OVERLAP

RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	= 2 + 3	
B	= 4 + 5	
C	= 6 + 7	
D	= 8 + 1	

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



CABLE PLAN

NOTES:

1. WIRING FOR LUMINAIRES ON TRAFFIC SIGNAL COMBINATION MAST ARMS SHALL BE INSTALLED PER LIGHTING PLANS.

IDOT Traffic Signal Installation Electrical Service Requirements					
Type	Number of Lamps	LED Wattage	% Operations	Total Wattage	
Signal	Red	22	11	50%	121.0
	Yellow	22	20	5%	22.0
	Green	22	12	45%	118.8
Prot-Perm Arrow		16	10	10%	16.0
Ped. Signal		8	20	100%	160.0
Controller		1	100	100%	100.0
UPS		1	25	100%	25.0
Video System			115	100%	
Blank-Out Sign			25	5%	
Flasher				50%	
Street Name Sign	4		120	50%	240.0
Luminaire			285	50%	
Total Intersection Wattage					802.8

ENERGY COSTS TO:
 VILLAGE OF LAKE IN THE HILLS
 600 HARVEST GATE ROAD
 LAKE IN THE HILLS, ILLINOIS 60156
 ENERGY SUPPLY: CONTACT: _____
 PHONE: (____) _____
 COMPANY: COMMONWEALTH EDISON
 ACCOUNT NUMBER: _____

USER NAME = mrc155	DESIGNED - BTW	REVISED -
FILENAME = D:\NNNN-sht-TSP-Cable-Polaris.d	DRAWN - BTW	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - GR	REVISED -
PLOT DATE = 4/25/2018	DATE - 4-26-2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CABLE PLAN, SCHEDULE OF QUANTITIES, PHASE DESIGNATION DIAGRAM
RANDALL ROAD AND POLARIS DR / ACORN LN**

SCALE: NONE SHEET 42 OF 66 SHEETS STA TO STA

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-01-PW	MCHENRY	1751	544
CONTRACT NO.			61E53	
ILLINOIS FED. AID PROJECT				



NOTES:

1. THE TEMPORARY TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.
2. DUE TO THE PRESENCE OF A RED LIGHT RUNNING (RLR) CAMERA AT THIS INTERSECTION, THE CONTRACTORS SHALL NOTIFY THE VILLAGE AND RLR CAMERA COMPANY PRIOR TO THE START OF CONSTRUCTION. THE VILLAGE OR THE RLR CAMERA COMPANY SHALL MAKE THE CAMERA INOPERATIVE FOR THE TIME OF CONSTRUCTION. ANY RLR CAMERA EQUIPMENT THAT IS IN CONFLICT WITH THE PROPOSED CONSTRUCTION SHALL BE REMOVED BY ITS RESPECTIVE OWNERS PRIOR TO THE START OF CONSTRUCTION. THE RLR CAMERA COMPANY FOR THIS INTERSECTION IS:
 REDFLEX TRAFFIC SYSTEMS, INC.
 23751 N. 23RD AVE., STE 150
 PHOENIX, AZ 85085-1854
 PHONE: 623-207-2000

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND DELIVER ALL EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

AGENCY: ALGONQUIN - LAKE IN THE HILLS FIRE PROTECTION DISTRICT

- 2 EACH LIGHT DETECTOR
- 2 EACH CONFIRMATION BEACON
- 1 EACH LIGHT DETECTOR AMPLIFIER

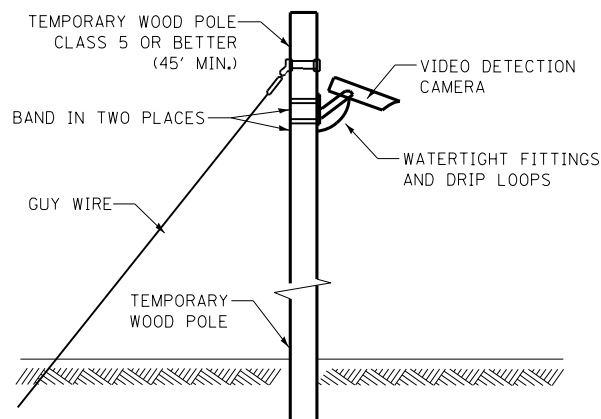
THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND DELIVER ALL EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

AGENCY: MCHENRY COUNTY - DIVISION OF TRANSPORTATION

- 4 EACH VEHICLE DETECTION CAMERA
- 1 EACH CONTROLLER AND CABINET (COMPLETE)
- 1 EACH UNINTERRUPTABLE POWER SUPPLY

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 4 EACH 3-SECTION SIGNAL HEAD
- 7 EACH 5-SECTION SIGNAL HEAD
- 11 EACH TRAFFIC SIGNAL BACKPLATE
- 4 EACH STEEL COMB MAST ARM AND POLE WITH LUMINAIRE
- 4 EACH TRAFFIC SIGNAL POST
- 1 EACH SERVICE INSTALLATION

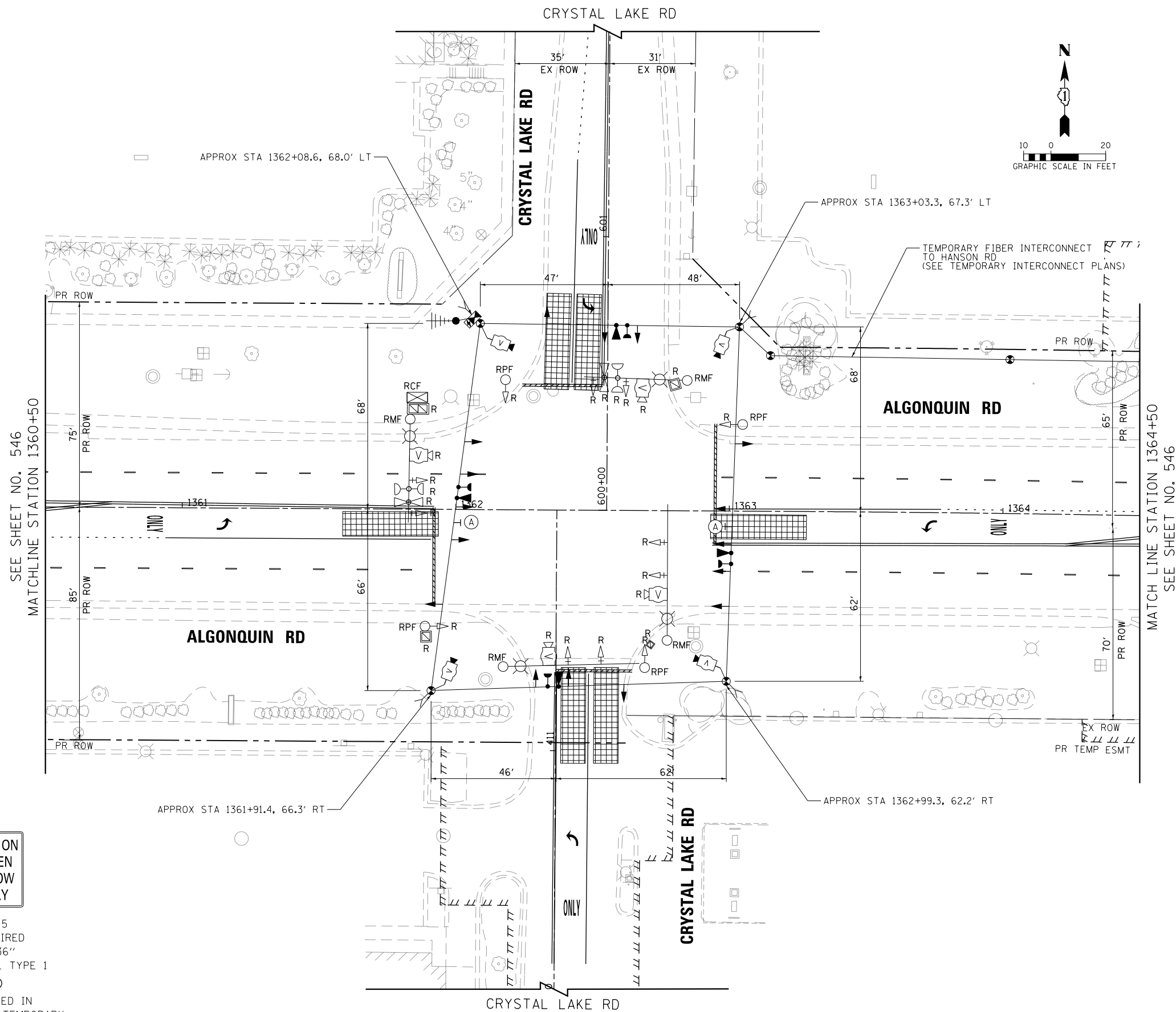


TEMPORARY VIDEO DETECTION MOUNTING DETAIL (NOT TO SCALE)

LEFT ON GREEN ARROW ONLY

R10-5
 4 REQUIRED
 30"X36"
 SIGN PANEL TYPE 1

INCLUDED IN THE COST OF TEMPORARY TRAFFIC SIGNAL INSTALLATION



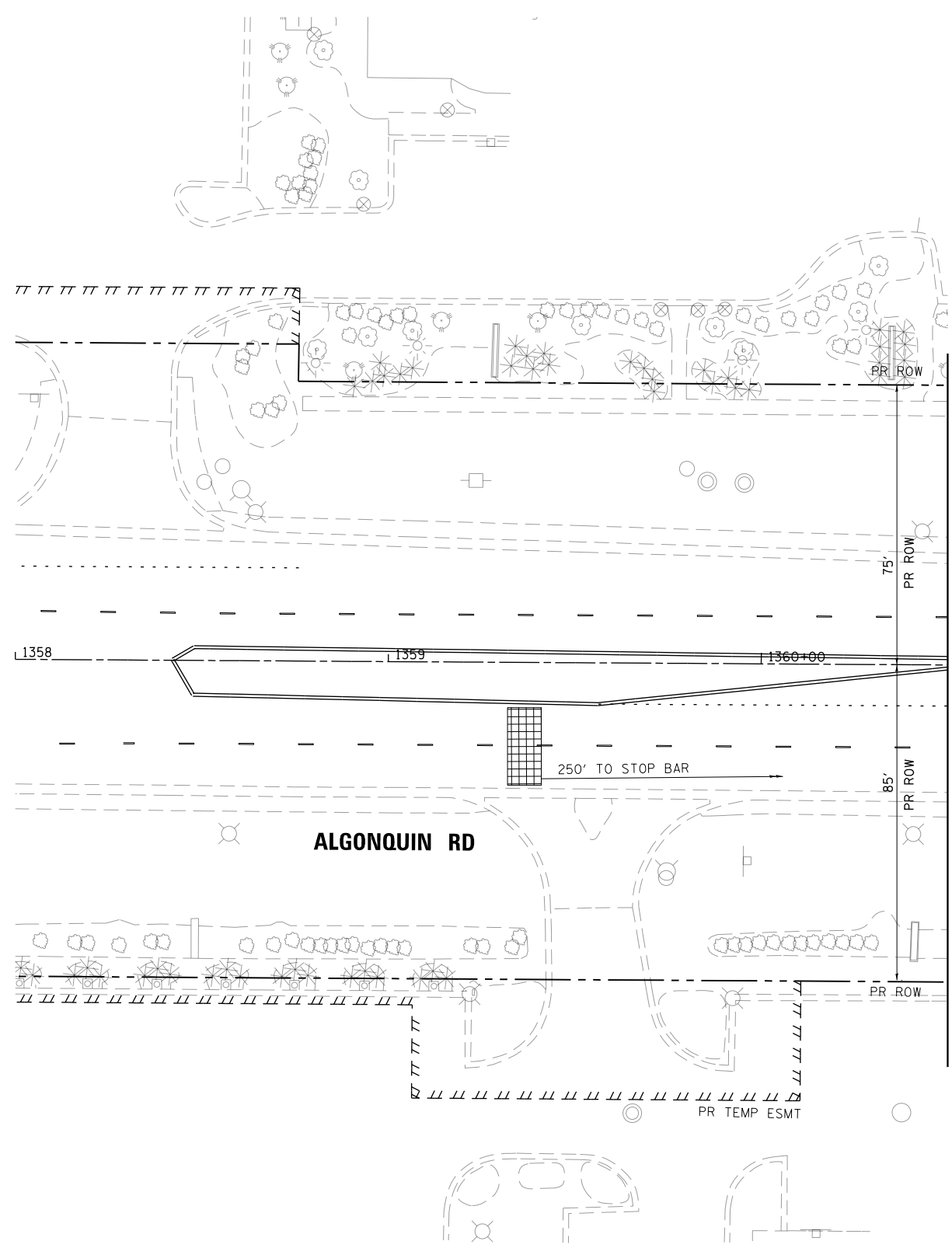
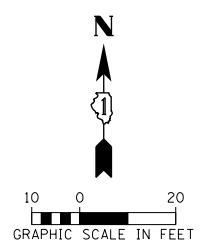
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PLOT SCALE = 40.0000' / in.	CHECKED - GR	REVISED -
PLOT DATE = 4/25/2018	DATE - 4-26-2018	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

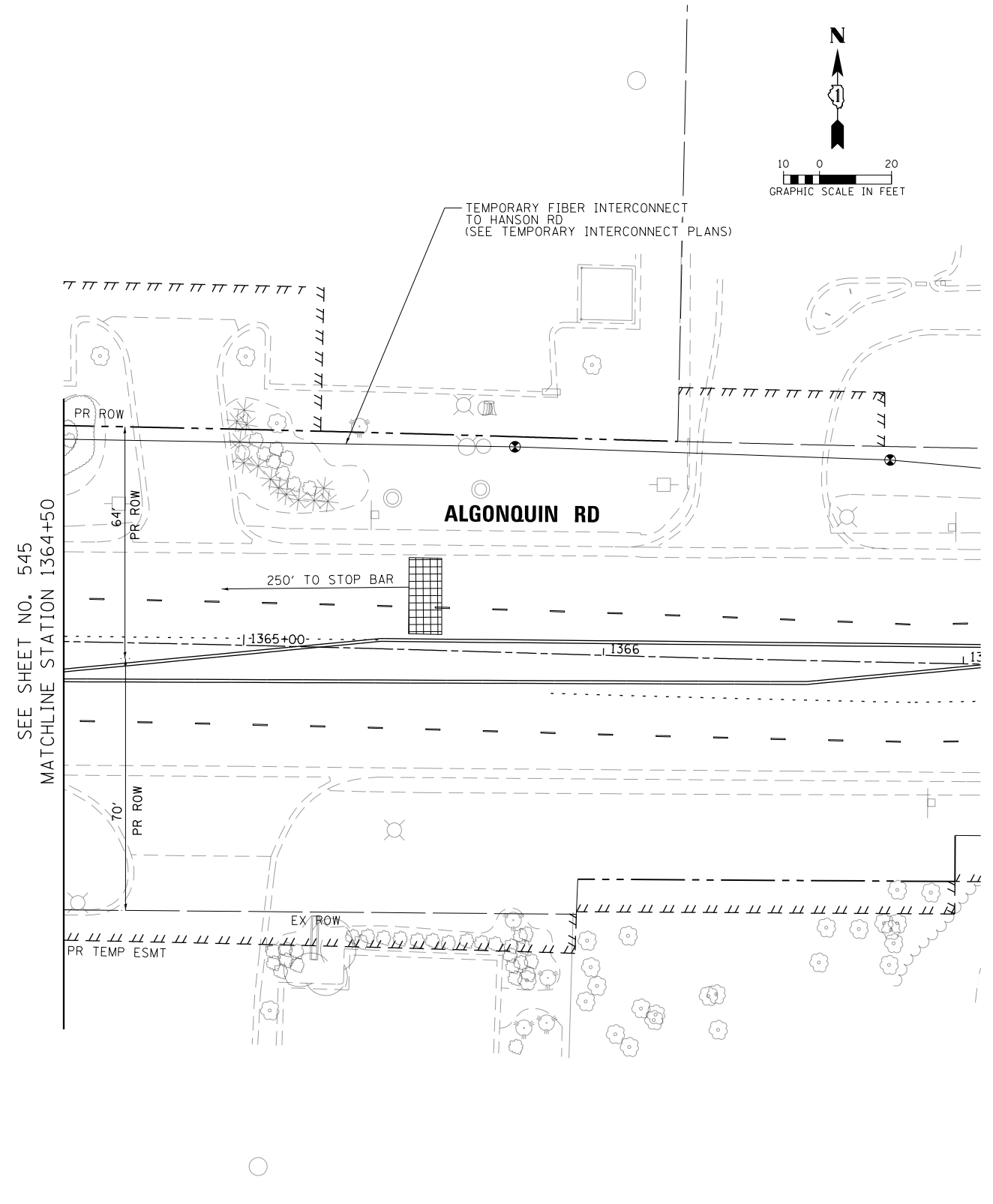
**TEMPORARY TRAFFIC INSTALLATION PLAN & REMOVAL PLAN
 ALGONQUIN RD AND CRYSTAL LAKE RD**

SCALE: 1" = 20' SHEET 43 OF 66 SHEETS STA TO STA

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-01-PW	MCHENRY	1751	545
CONTRACT NO.			61E53	
ILLINOIS FED. AID PROJECT				



MATCH LINE STATION 1360+50
SEE SHEET NO. 545



SEE SHEET NO. 545
MATCHLINE STATION 1364+50



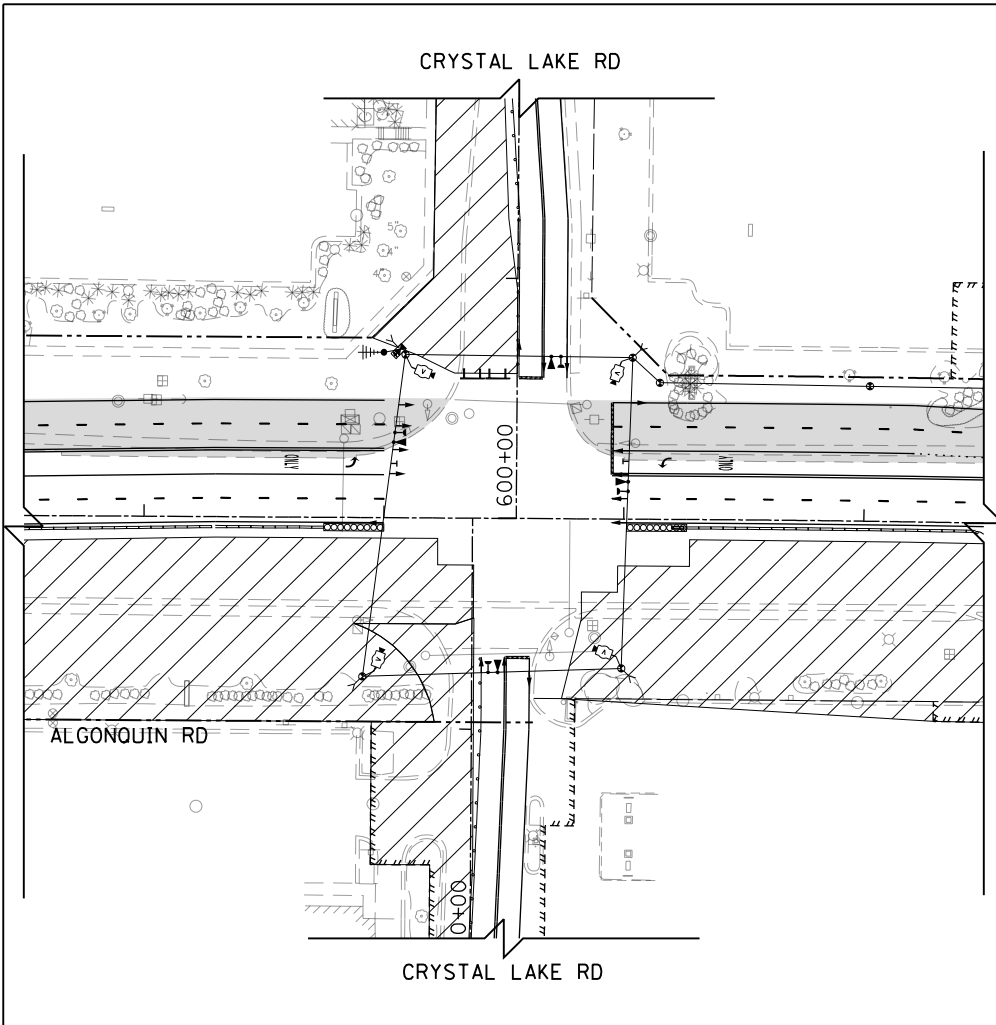
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PLOT SCALE = 40.0000' / in.	CHECKED - GR	REVISED -
PLOT DATE = 4/25/2018	DATE - 4-26-2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

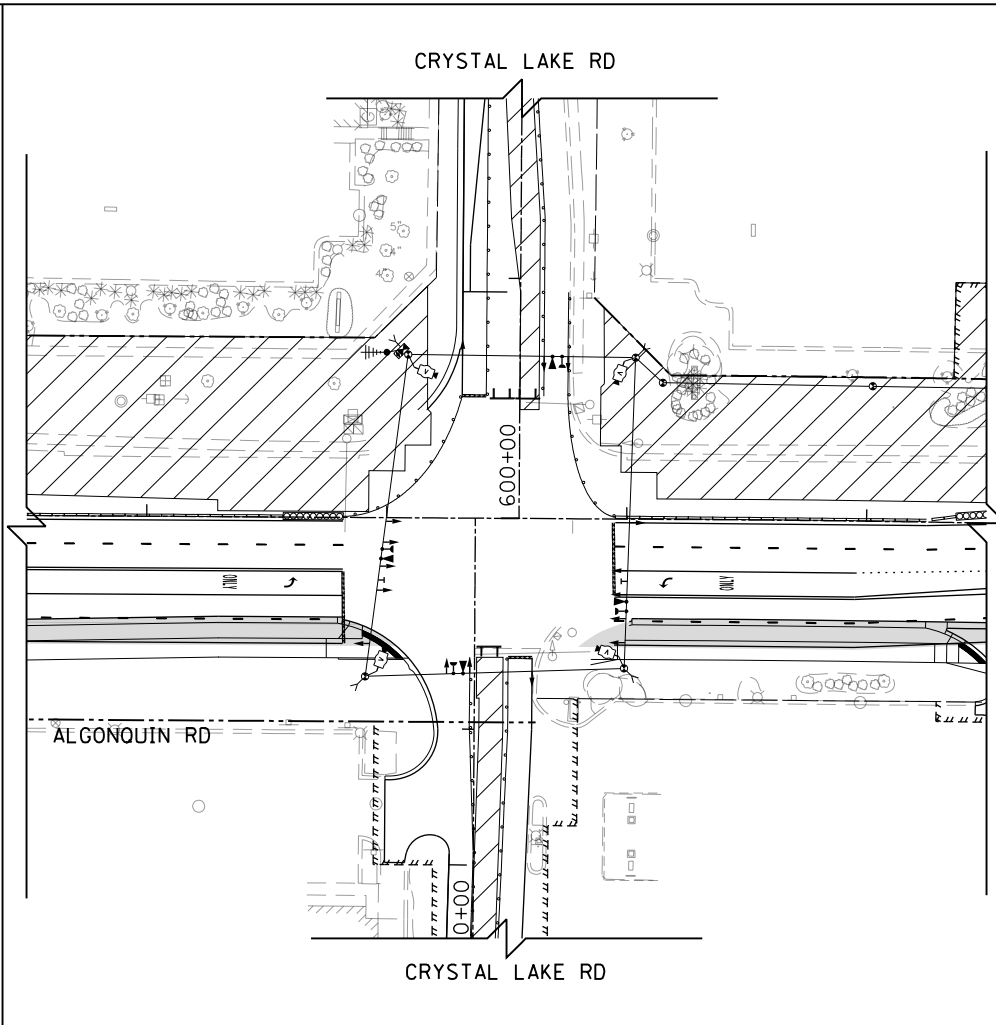
**TEMPORARY TRAFFIC INSTALLATION PLAN & REMOVAL PLAN
ALGONQUIN RD AND CRYSTAL LAKE RD**

SCALE: 1" = 20' SHEET 44 OF 66 SHEETS STA TO STA

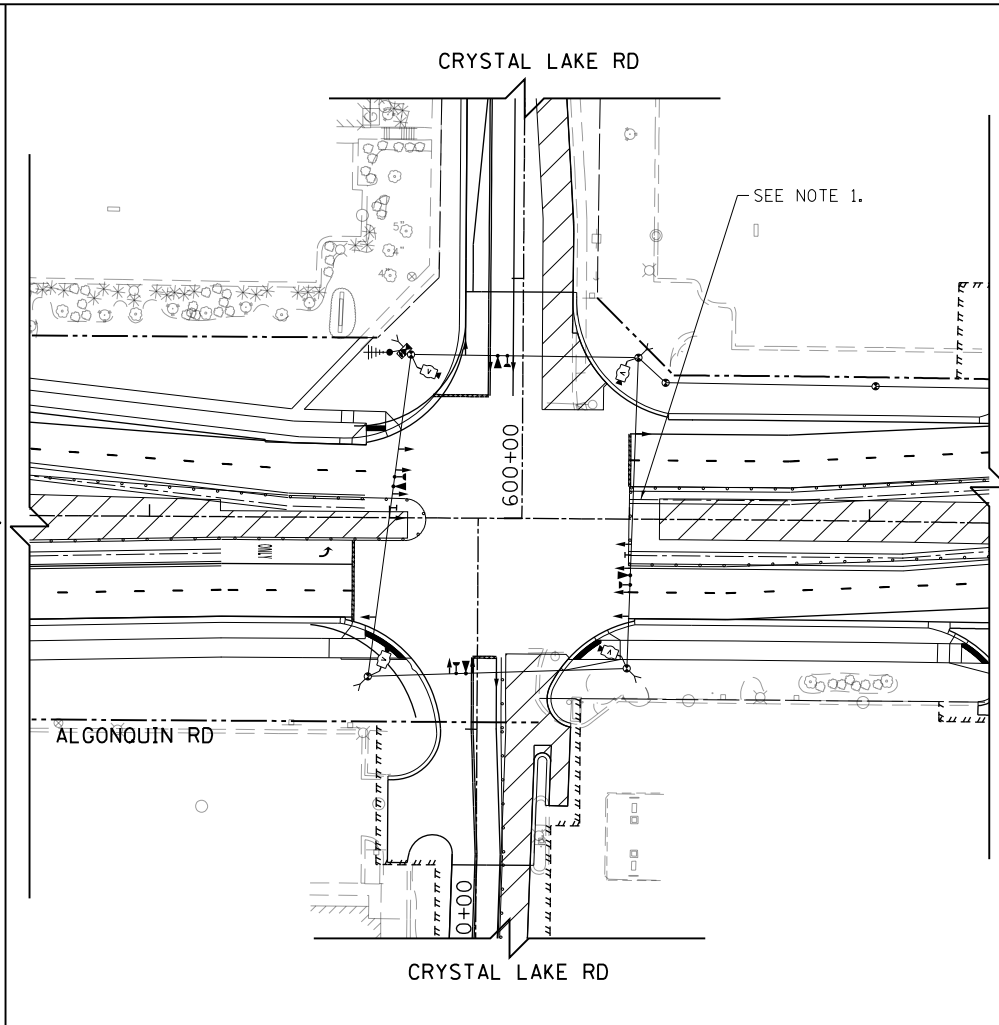
FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-01-PW	MCHENRY	1751	546
CONTRACT NO.			61E53	
ILLINOIS FED. AID PROJECT				



TEMPORARY TRAFFIC SIGNAL STAGE 1



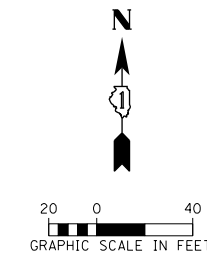
TEMPORARY TRAFFIC SIGNAL STAGE 2



TEMPORARY TRAFFIC SIGNAL STAGE 3

NOTES:

1. WESTBOUND LEFT-TURN LANE SHALL BE PROVIDE IN STAGE 3, WITH SHORT-TERM CLOSURE TO COMPLETE MEDIAN LANE, PER MAINTENANCE OF TRAFFIC PLANS. SEE MAINTENANCE OF TRAFFIC PLANS.



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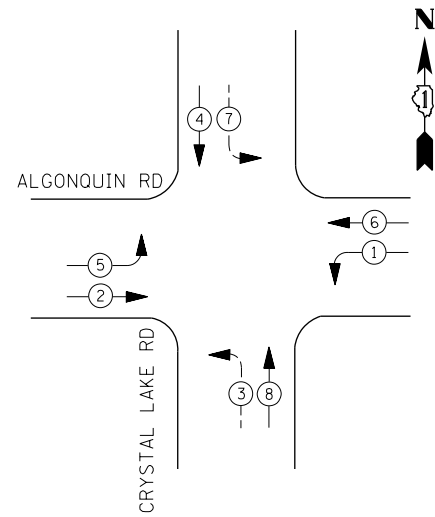
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION, M.O.T. STAGING PLAN
ALGONQUIN RD AND CRYSTAL LAKE RD

SCALE: 1" = 40' SHEET 45 OF 66 SHEETS STA TO STA

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-01-PW	MCHENRY	1751	547
CONTRACT NO.			61E53	
ILLINOIS FED. AID PROJECT				

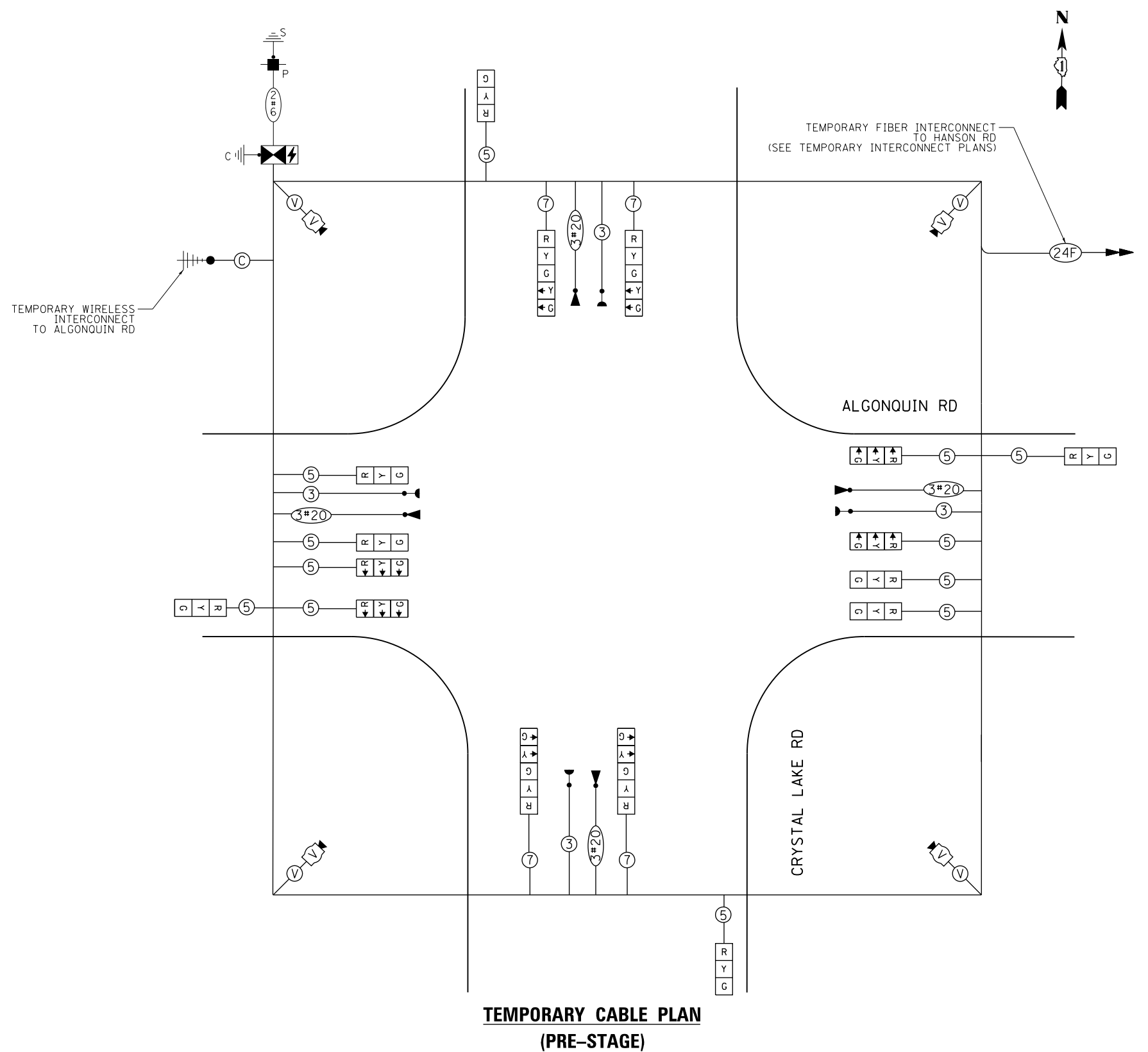
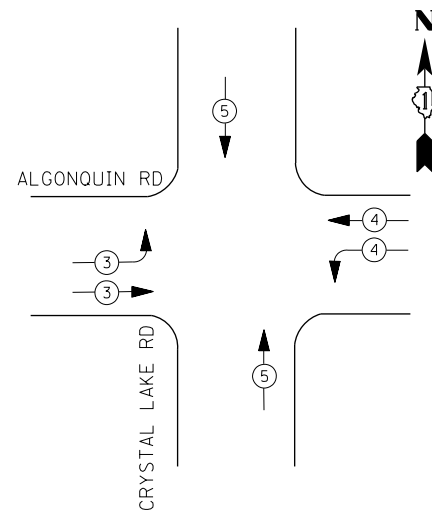
TEMPORARY CONTROLLER SEQUENCE



LEGEND:

- ← * → PROTECTED PHASE
- ← * - - PROTECTED/PERMITTED PHASE
- ← * → PEDESTRIAN PHASE
- ← * OL → OVERLAP

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE



IDOT Traffic Signal Installation Electrical Service Requirements

Type	Number of Lamps	LED Wattage	% Operations	Total Wattage
Signal	Red	16	50%	88.0
	Yellow	16	5%	16.0
	Green	16	45%	86.4
Prot-Perm Arrow	8	10	10%	8.0
Ped. Signal		20	100%	
Controller	1	100	100%	100.0
UPS	1	25	100%	25.0
Video System	1	150	100%	150.0
Blank-Out Sign		25	5%	
Flasher			50%	
Street Name Sign		120	50%	
Luminaire		285	50%	
Total Intersection Wattage				473.4

ENERGY COSTS TO:
 VILLAGE OF LAKE IN THE HILLS
 600 HARVEST GATE ROAD
 LAKE IN THE HILLS, ILLINOIS 60156
 ENERGY SUPPLY: CONTACT: _____
 PHONE: (____) _____
 COMPANY: COMMONWEALTH EDISON
 ACCOUNT NUMBER: _____

USER NAME = mrc155	DESIGNED - BTW	REVISED -
FILENAME = D:\N\N\N\sh-t-TST-Cable-Crystal.d	DRAWN - BTW	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - GR	REVISED -
PLOT DATE = 4/25/2018	DATE - 4-26-2018	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TEMPORARY CABLE PLAN, PHASE DESIGNATION DIAGRAM
 ALGONQUIN RD AND CRYSTAL LAKE RD**

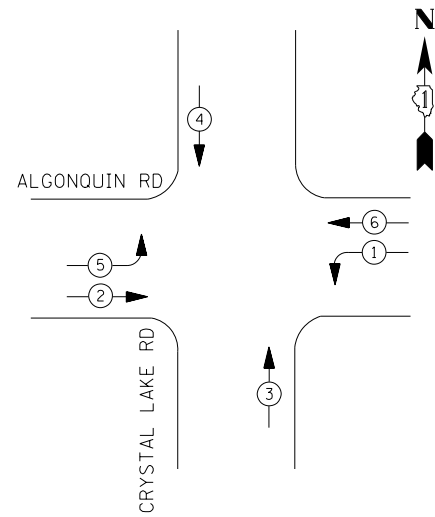
SCALE: NONE SHEET 46 OF 66 SHEETS STA TO STA

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-01-PW	MCHENRY	1751	548
CONTRACT NO.			61E53	

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



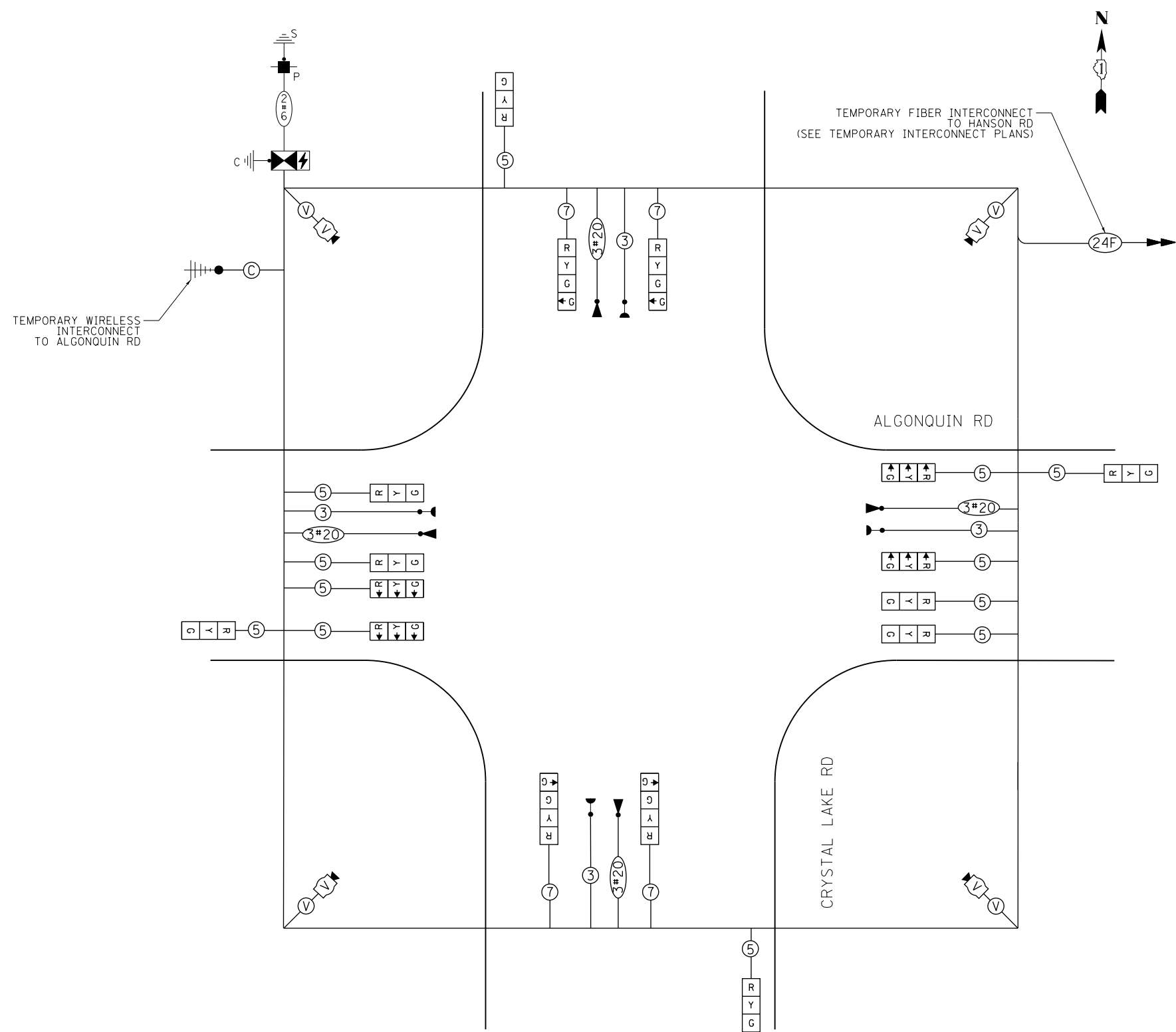
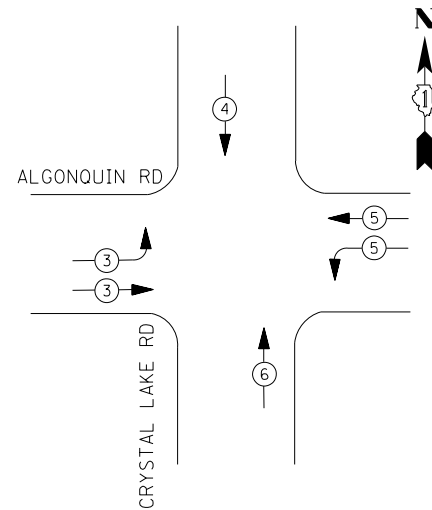
TEMPORARY CONTROLLER SEQUENCE



LEGEND:

- ← * → PROTECTED PHASE
- ← * → PROTECTED/PERMITTED PHASE
- ← * → PEDESTRIAN PHASE
- ← * OL → OVERLAP

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE



**TEMPORARY CABLE PLAN
(STAGES 1, 2 AND 3)**

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

IDOT Traffic Signal Installation Electrical Service Requirements				
Type	Number of Lamps	LED Wattage	% Operation	Total Wattage
Signal	Red	20	50%	110.0
	Yellow	20	5%	20.0
	Green	20	45%	108.0
Prot-Perm Arrow		10	10%	
Ped. Signal		20	100%	
Controller	1	100	100%	100.0
UPS	1	25	100%	25.0
Video System	1	150	100%	150.0
Blank-Out Sign		25	5%	
Flasher			50%	
Street Name Sign		120	50%	
Luminaire		285	50%	
Total Intersection Wattage				513.0

ENERGY COSTS TO:

VILLAGE OF LAKE IN THE HILLS
600 HARVEST GATE ROAD
LAKE IN THE HILLS, ILLINOIS 60156

ENERGY SUPPLY: CONTACT: _____
PHONE: (____) _____
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: _____

USER NAME = mrc155	DESIGNED - BTW	REVISED -
FILENAME = D:\NNNN-sht-TST-Cable-Crystal.d	DRAWN - BTW	REVISED -
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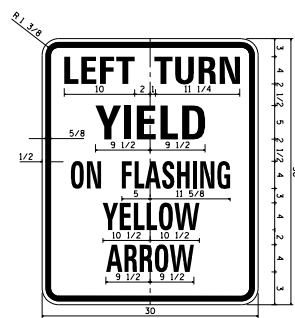
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY CABLE PLAN, PHASE DESIGNATION DIAGRAM
ALGONQUIN RD AND CRYSTAL LAKE RD**

SCALE: NONE SHEET 47 OF 66 SHEETS STA TO STA

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-01-PW	MCHENRY	1751	549
			CONTRACT NO.	61E53
ILLINOIS FED. AID PROJECT				



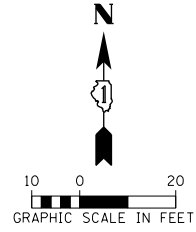
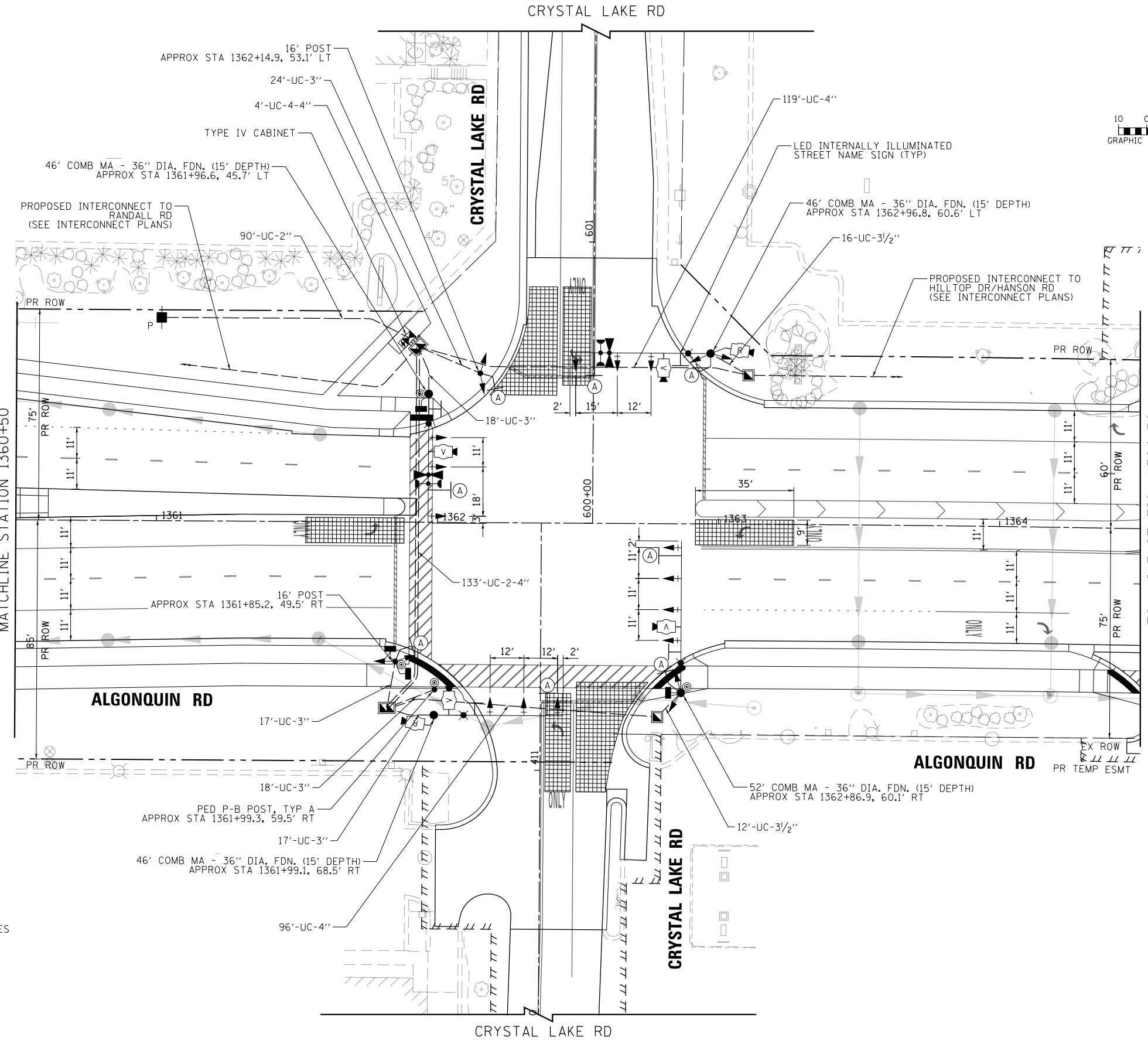


- NOTES:**
1. COLOR:
BACKGROUND: WHITE
MESSAGE: BLACK
 2. LINE 1 IS SERIES C
LINE 2, 4 AND 5 ARE SERIES D
LINE 3 IS SERIES B
 3. ALL DIMENSIONS SHOWN ARE IN INCHES

30"x36"
SIGN PANEL - TYPE 1
(8 REQUIRED)

NOTES:

1. THE MOUNTING LOCATIONS OF THE VIDEO AND RADAR DETECTORS WILL BE DETERMINED PER THE MANUFACTURER'S RECOMMENDATIONS.
 2. LUMINAIRE ARMS ON ALL TRAFFIC SIGNAL COMBINATION MAST ARM ASSEMBLY AND POLES SHALL BE 20 FT.
 3. THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.
 4. SEPARATE CONDUITS FOR LIGHTING AND TRAFFIC SIGNALS SHALL BE INSTALLED IN THE FOUNDATIONS FOR COMBINATION MAST ARM ASSEMBLY AND POLE. SEE LIGHTING PLANS FOR LIGHTING CONDUIT DETAIL.
 5. VIDEO DETECTION SHALL BE USED AT THE FOLLOWING LOCATIONS:
- STOP BAR DETECTION ON NORTHBOUND AND SOUTHBOUND APPROACHES (CRYSTAL LAKE RD)
- STOP BAR DETECTION ON EASTBOUND AND WESTBOUND LEFT TURN LANES (ALGONQUIN RD)
- RADAR DETECTION SHALL BE USED AT THE FOLLOWING LOCATIONS:
- ADVANCE DETECTION ON EASTBOUND AND WESTBOUND THROUGH LANES (ALGONQUIN RD)



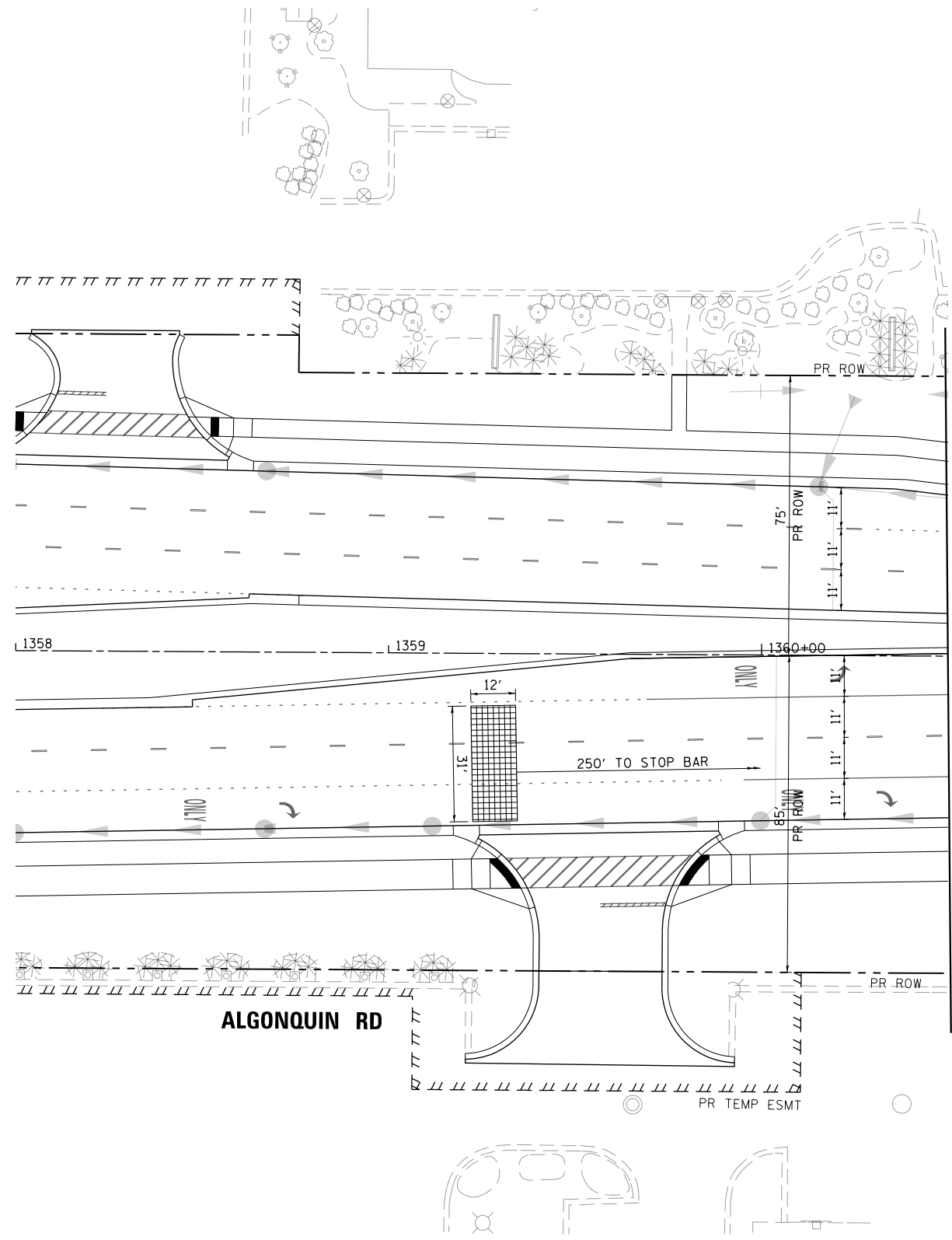
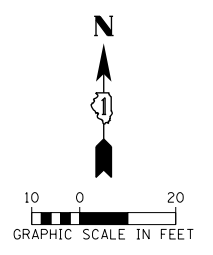
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PLOT DATE = 4/25/2018	DATE - 4-26-2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

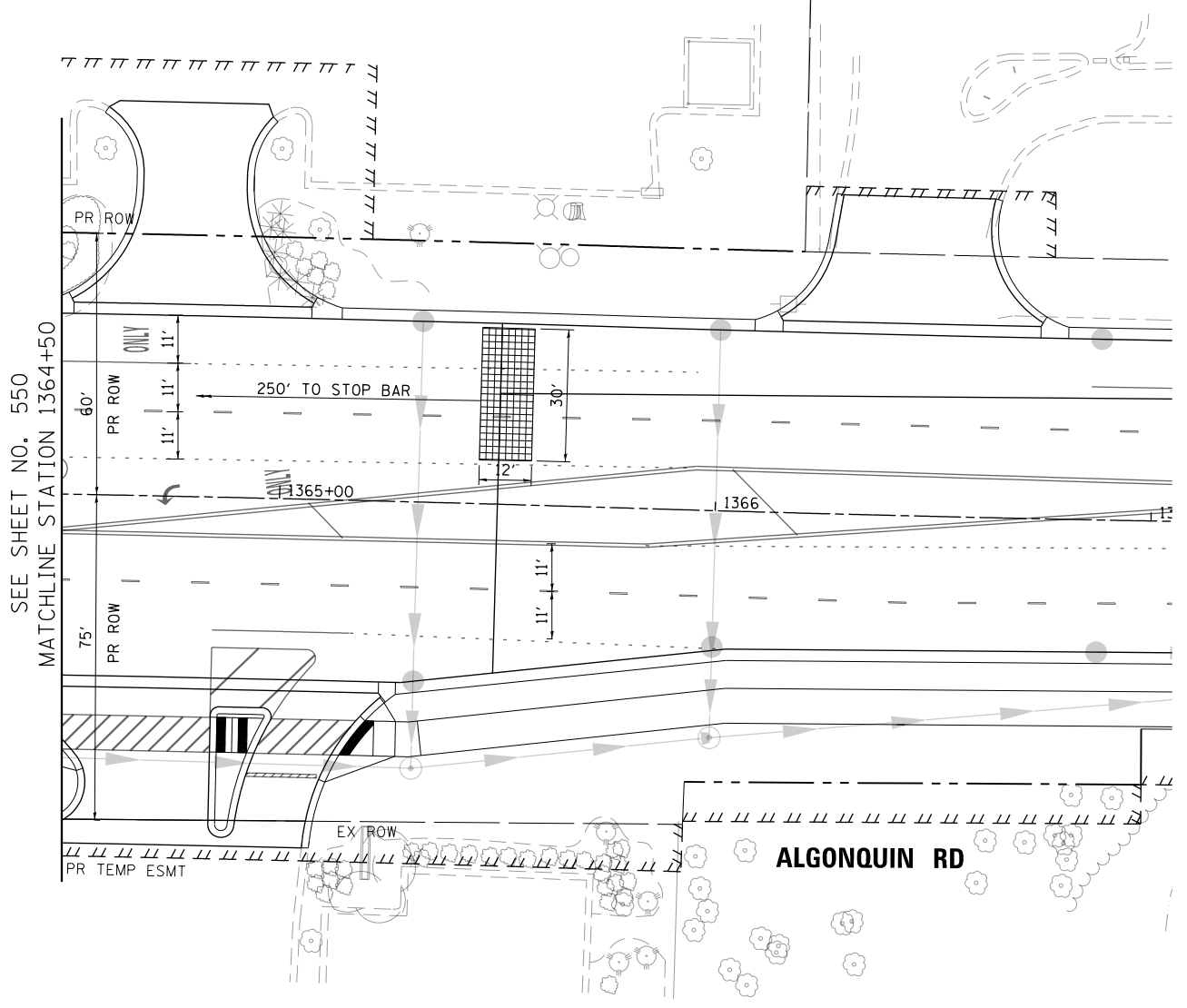
**TRAFFIC SIGNAL MODERNIZATION PLAN
ALGONQUIN RD AND CRYSTAL LAKE RD**

SCALE: 1" = 10' SHEET 48 OF 66 SHEETS STA TO STA

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-01-PW	MCHENRY	1751	550
			CONTRACT NO.	61E53
ILLINOIS FED. AID PROJECT				



MATCH LINE STATION 1361+50
SEE SHEET NO. 550



SEE SHEET NO. 550
MATCHLINE STATION 1364+50



USER NAME = mrc155	DESIGNED - BTW	REVISED -
FILENAME = D:\NNNN-sht-TSP-Install-Crystal	DRAWN - BTW	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - GR	REVISED -
PLOT DATE = 4/25/2018	DATE - 4-26-2018	REVISED -

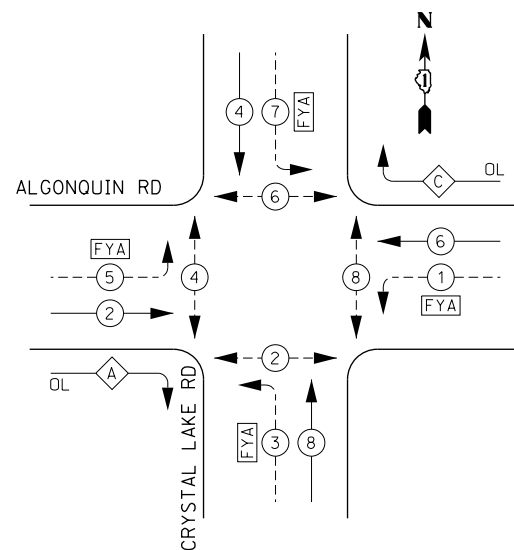
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODERNIZATION PLAN
ALGONQUIN RD AND CRYSTAL LAKE RD**

SCALE: 1" = 20' SHEET 49 OF 66 SHEETS STA TO STA

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-01-PW	MCHENRY	1751	551
CONTRACT NO.			61E53	
ILLINOIS FED. AID PROJECT				

PROPOSED CONTROLLER SEQUENCE



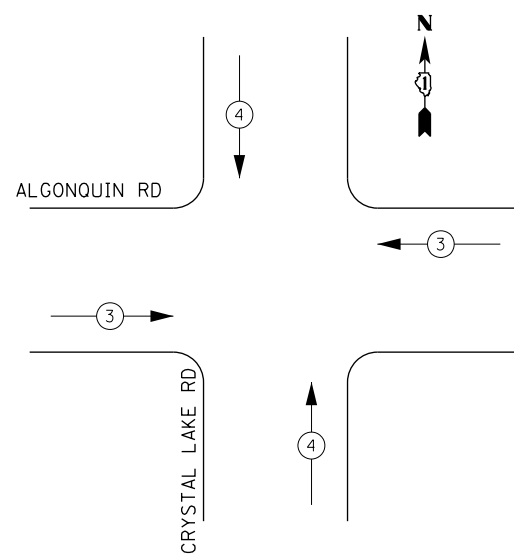
LEGEND:

- ← * → PROTECTED PHASE
- ← * → PROTECTED/PERMITTED PHASE
- ← * → PEDESTRIAN PHASE
- ← * → OVERLAP
- FYA FLASHING YELLOW ARROW

RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	= 2	+ 3
B	= 4	+ 5
C	= 6	+ 7
D	= 8	+ 1

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



IDOT

Traffic Signal Installation Electrical Service Requirements

Type	Number of Lamps	LED Wattage	% Operations	Total Wattage
Signal	Red	21	50%	115.5
	Yellow	13	5%	13.0
	Green	13	45%	70.2
Prot-Perm Arrow	32	10	10%	32.0
Ped. Signal	4	20	100%	80.0
Controller	1	100	100%	100.0
UPS	1	25	100%	25.0
Video System		115	100%	
Blank-Out Sign		25	5%	
Flasher			50%	
Street Name Sign	4	120	50%	240.0
Luminaire		285	50%	
Total Intersection Wattage				675.7

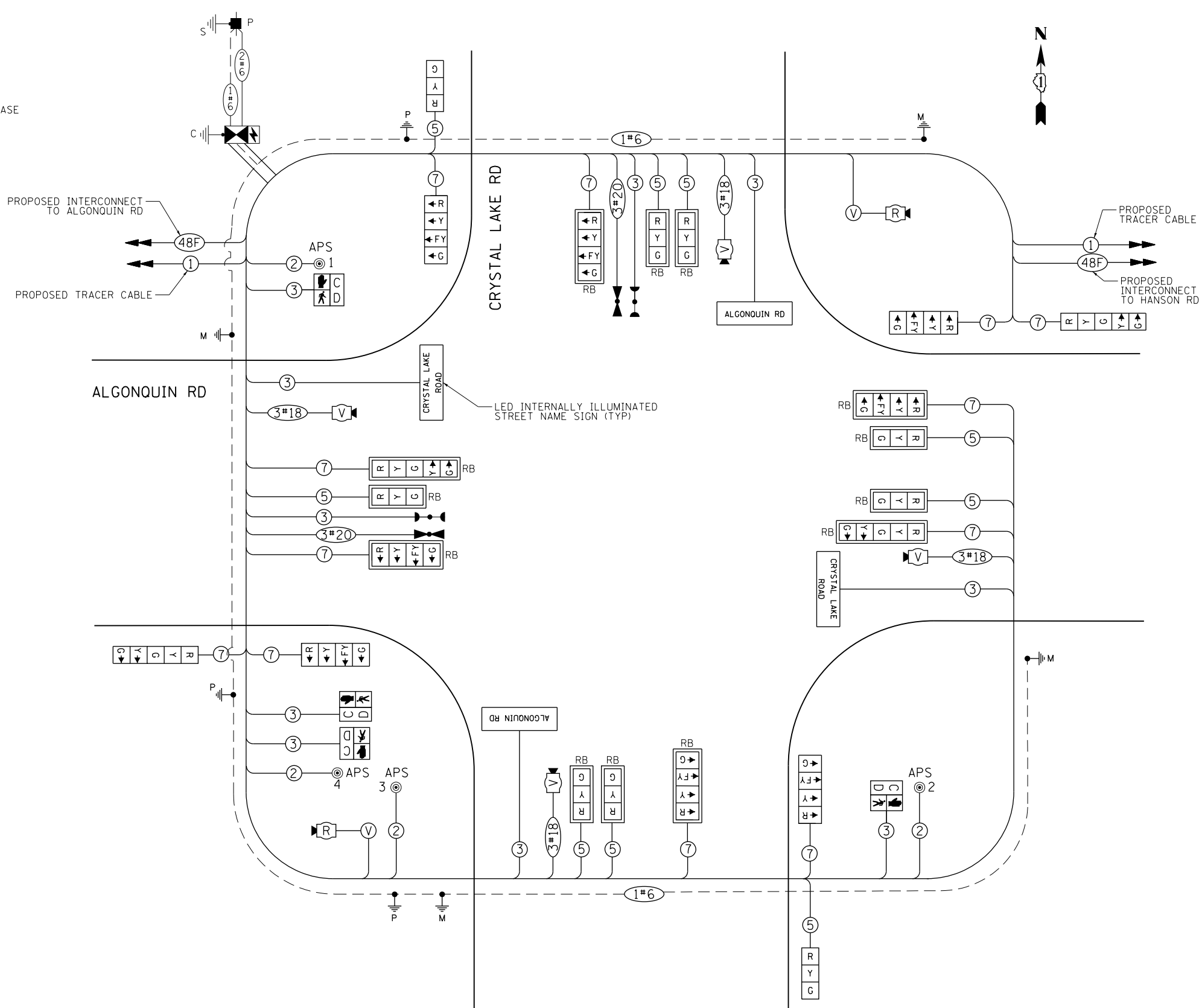
ENERGY COSTS TO:

VILLAGE OF LAKE IN THE HILLS
600 HARVEST GATE ROAD
LAKE IN THE HILLS, ILLINOIS 60156

ENERGY SUPPLY: CONTACT: _____
PHONE: (____) _____
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: _____

NOTES:

1. WIRING FOR LUMINAIRES ON TRAFFIC SIGNAL COMBINATION MUST ARMS SHALL BE INSTALLED PER LIGHTING PLANS.



CABLE PLAN



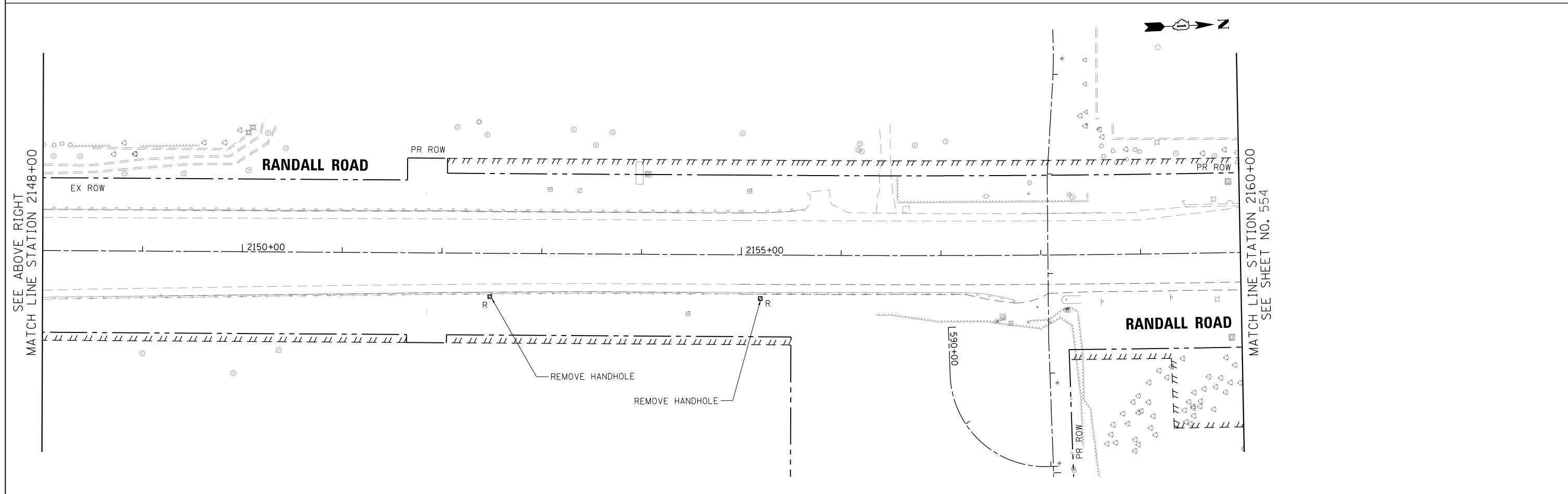
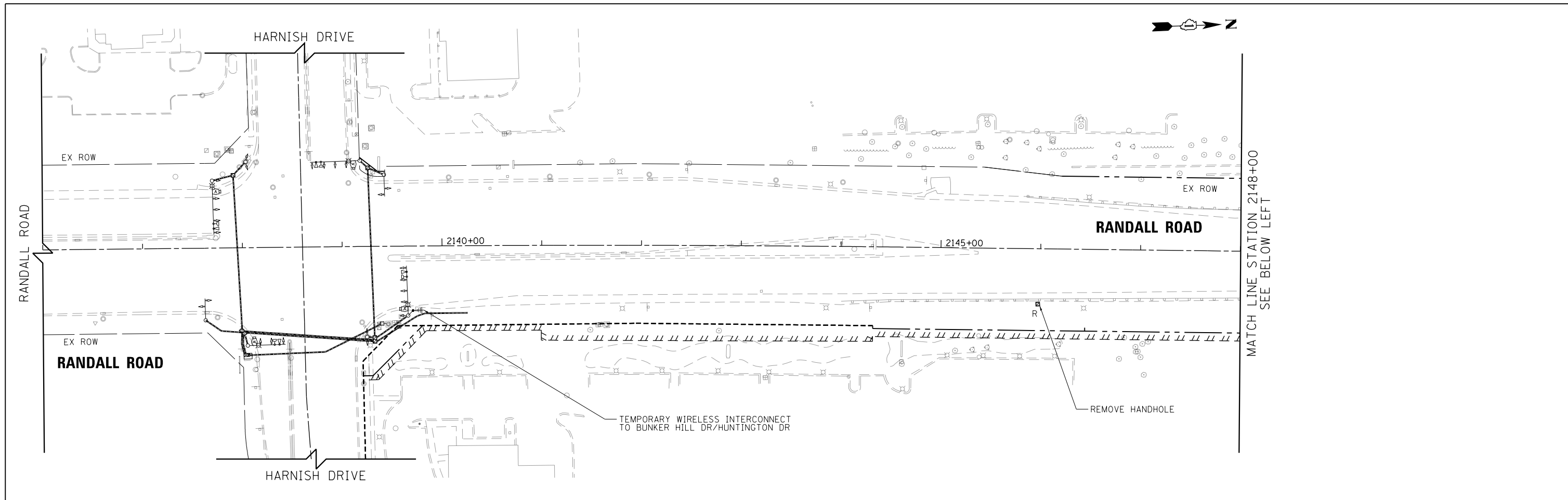
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PLOT DATE = 4/25/2018	DATE - 4-26-2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CABLE PLAN, SCHEDULE OF QUANTITIES, PHASE DESIGNATION DIAGRAM
ALGONQUIN RD AND CRYSTAL LAKE RD**

SCALE: 1" = 10' SHEET 50 OF 66 SHEETS STA TO STA

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-01-PW	MCHENRY	1751	552
			CONTRACT NO. 61E53	
ILLINOIS FED. AID PROJECT				



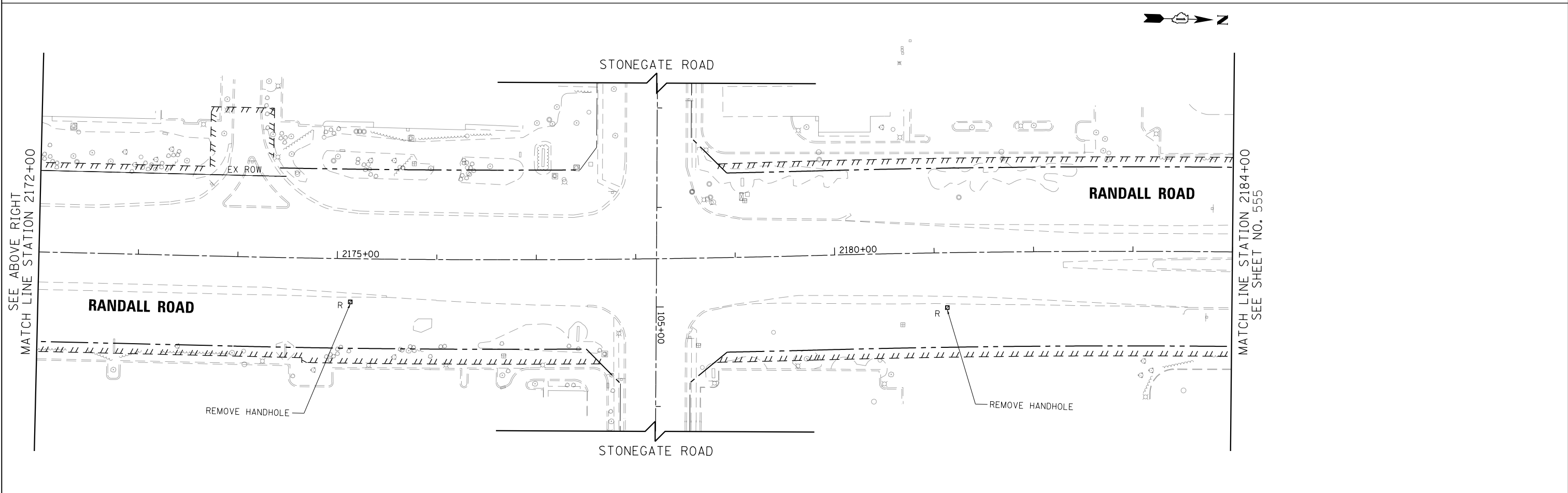
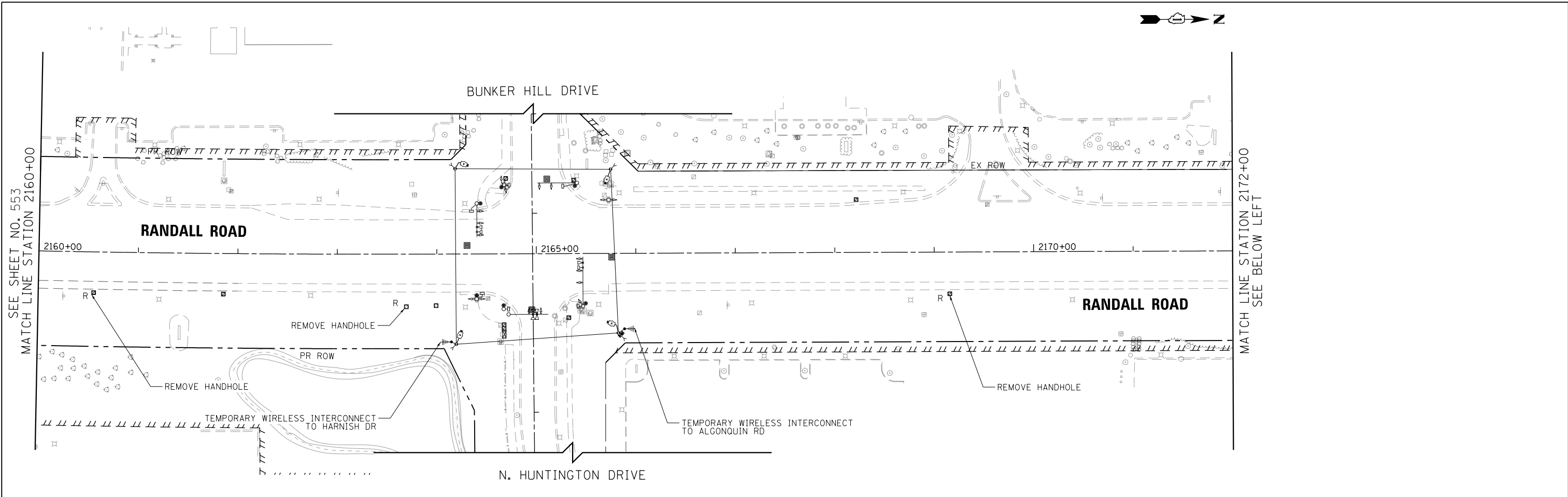
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PLOT DATE = 4/25/2018	DATE - 4-26-2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY WIRELESS INTERCONNECT PLAN
RANDALL RD (BUNKER HILL DR TO POLARIS DR)**

SCALE: 1" = 50' SHEET 51 OF 66 SHEETS STA 2144+06.63 TO STA 2160+00

FAP RTE 336	SECTION 06-00329-01-PW	COUNTY MCHENRY	TOTAL SHEETS 1751	SHEET NO. 553
CONTRACT NO. 61E53			ILLINOIS FED. AID PROJECT	



USER NAME = mrc155	DESIGNED - BTW	REVISED -
FILENAME = D:\NNNN-sht-TST-INTER-2	DRAWN - BTW	REVISED -
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PLOT DATE = 4/25/2018	DATE - 4-26-2018	REVISED -

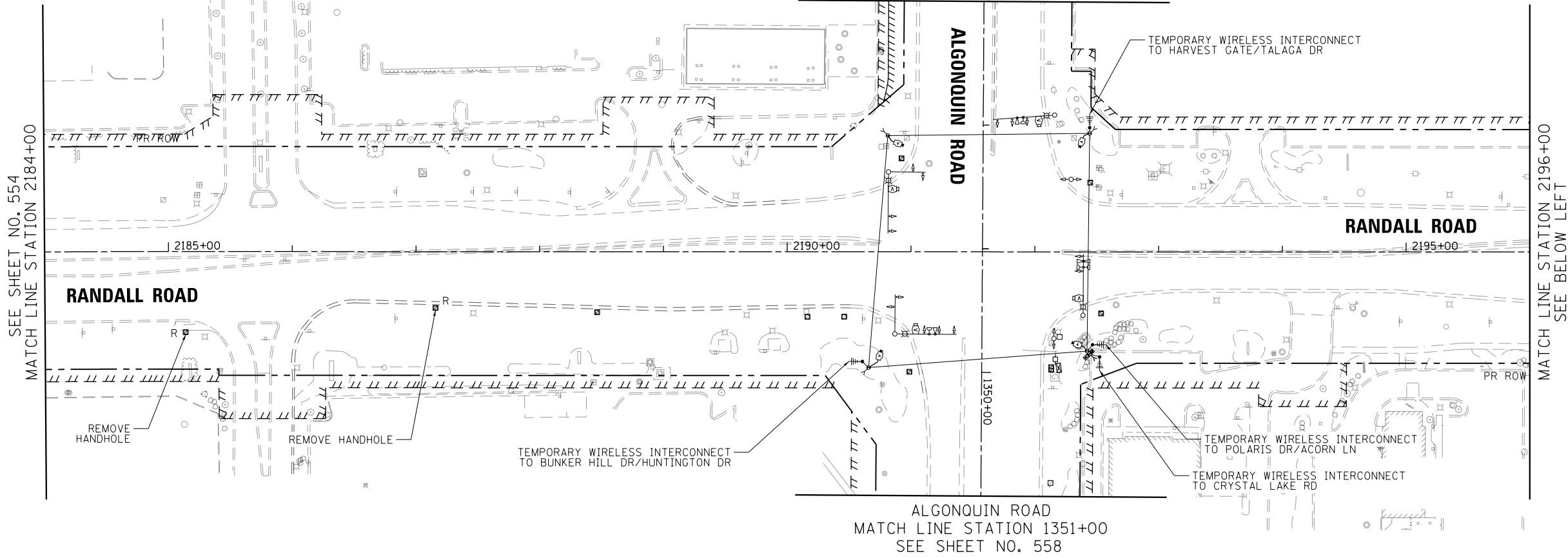
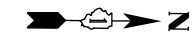
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY WIRELESS INTERCONNECT PLAN
RANDALL RD (BUNKER HILL DR TO POLARIS DR)**

SCALE: 1" = 50' SHEET 52 OF 66 SHEETS STA 2160+00 TO STA 2184+00

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-01-PW	MCHENRY	1751	554
CONTRACT NO.			61E53	
ILLINOIS FED. AID PROJECT				

SEE SHEET NO. 557
MATCH LINE STATION 1347+00
ALGONQUIN ROAD

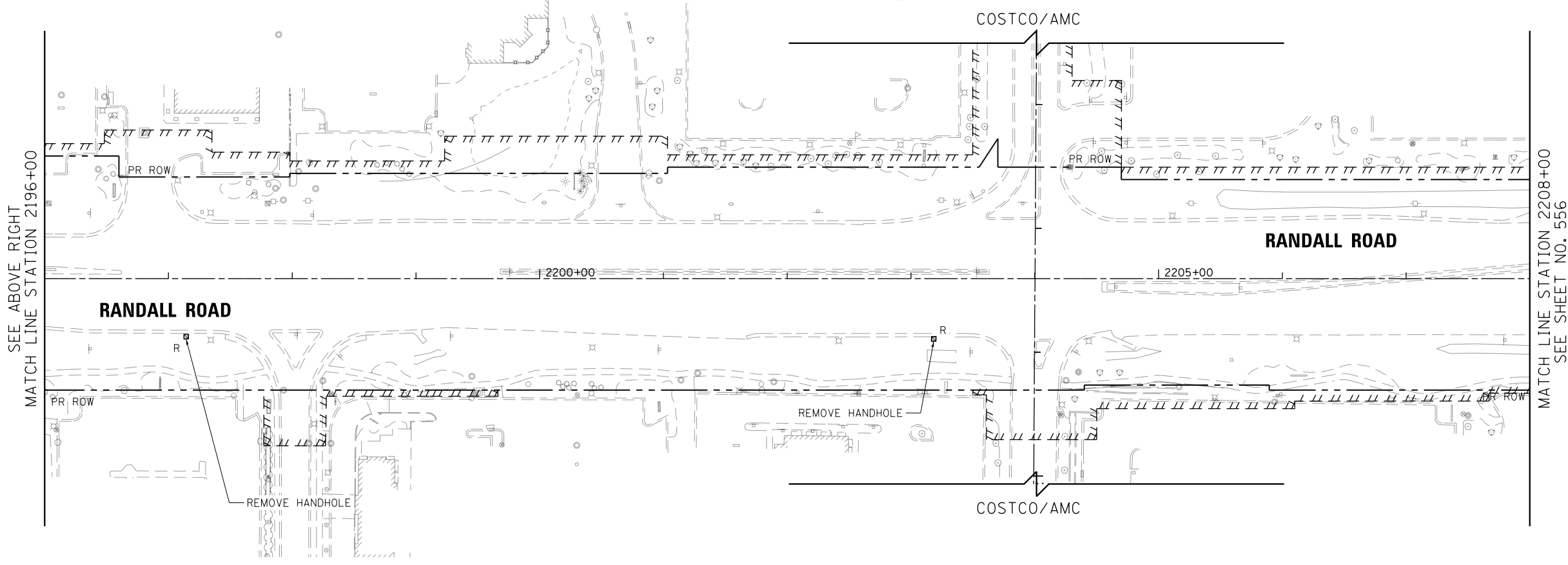
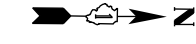


SEE SHEET NO. 554
MATCH LINE STATION 2184+00

MATCH LINE STATION 2196+00
SEE BELOW LEFT

ALGONQUIN ROAD
MATCH LINE STATION 1351+00
SEE SHEET NO. 558

COSTCO/AMC



SEE ABOVE RIGHT
MATCH LINE STATION 2196+00

MATCH LINE STATION 2208+00
SEE SHEET NO. 556

COSTCO/AMC



USER NAME = mrc155	DESIGNED - BTW	REVISED -
FILENAME = D:\NNNN-sht-TST-INTER-3	DRAWN - BTW	REVISED -
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PLOT DATE = 4/25/2018	DATE - 4-26-2018	REVISED -

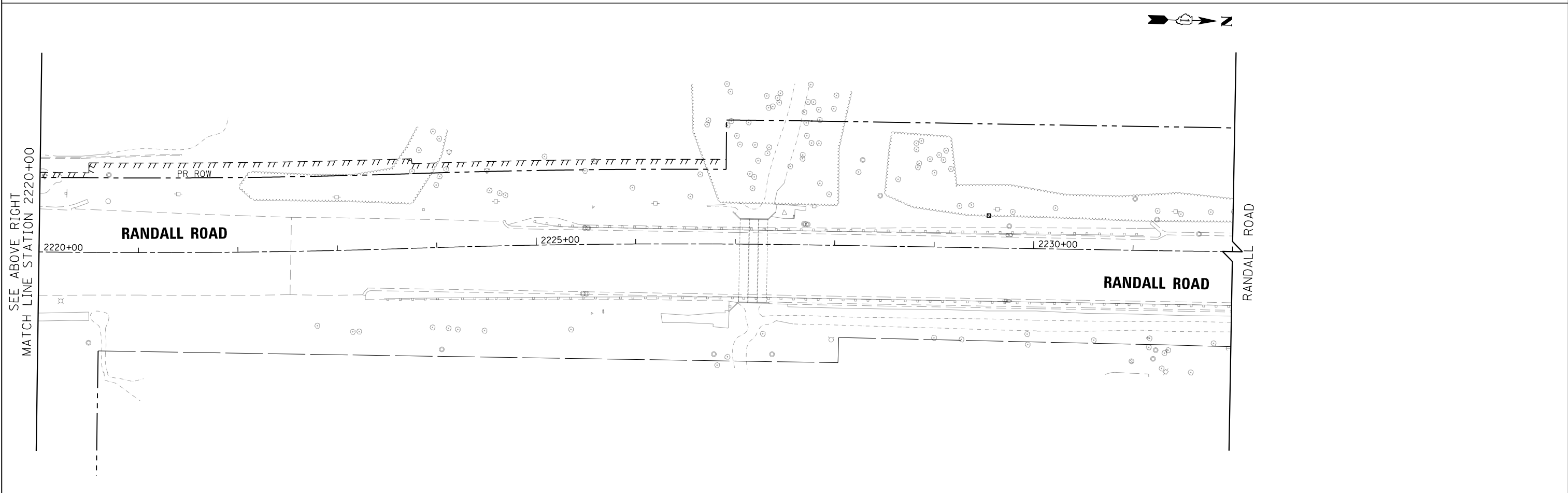
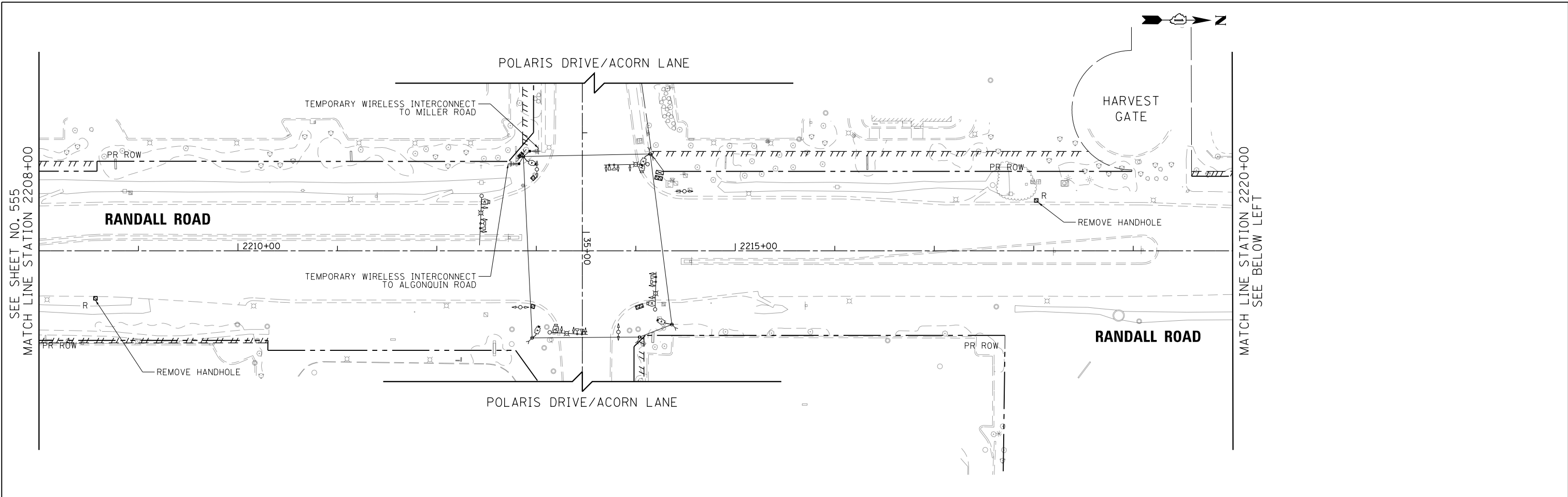
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY WIRELESS INTERCONNECT PLAN
RANDALL RD (BUNKER HILL DR TO POLARIS DR)

SCALE: 1" = 50' SHEET 53 OF 66 SHEETS STA 2184+00 TO STA 2208+00

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-01-PW	MCHENRY	1751	555
			CONTRACT NO. 61E53	

ILLINOIS FED. AID PROJECT



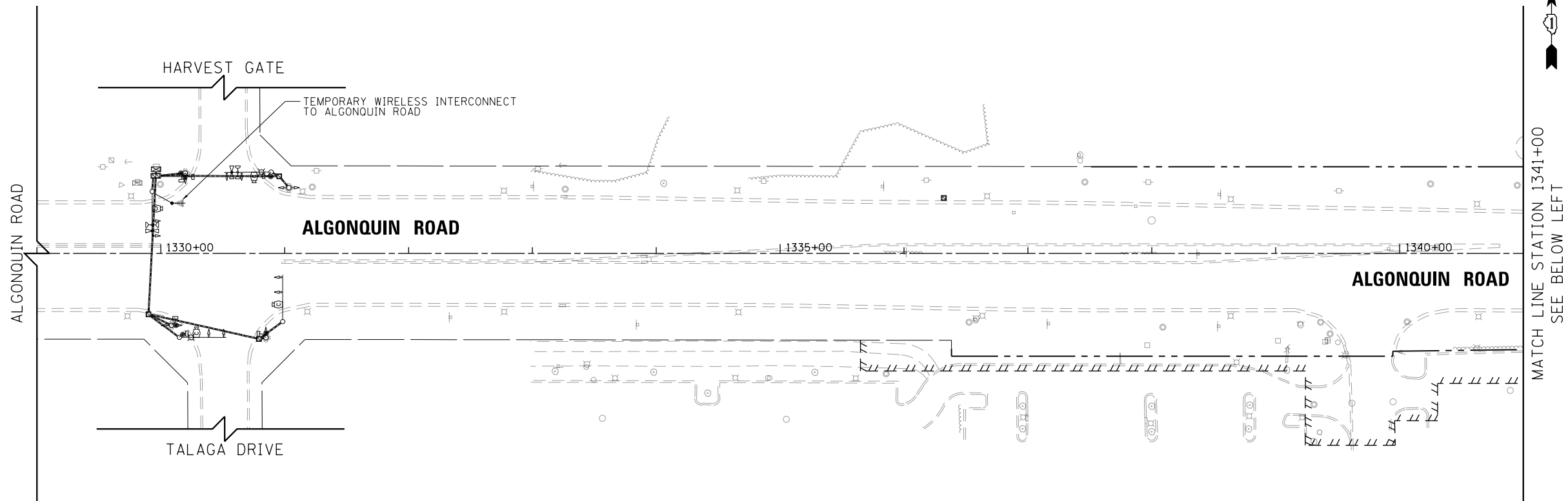
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PLOT DATE = 4/25/2018	DATE - 4-26-2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

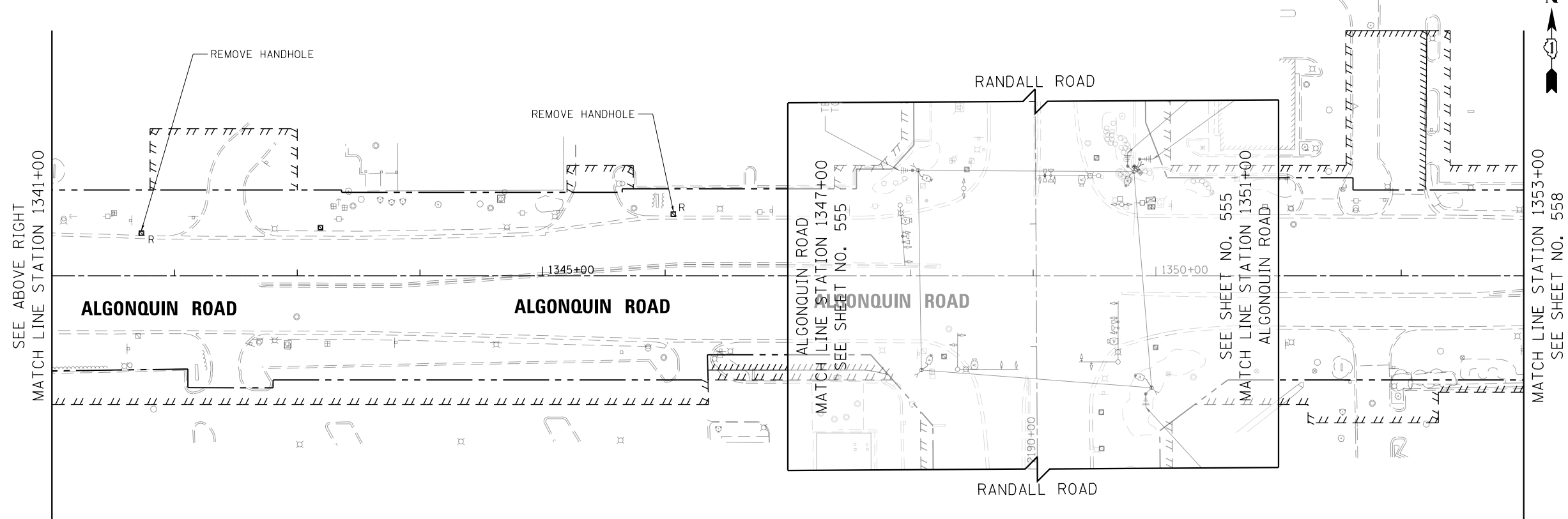
**TEMPORARY WIRELESS INTERCONNECT PLAN
RANDALL RD (BUNKER HILL DR TO POLARIS DR)**

SCALE: 1" = 50' SHEET 54 OF 66 SHEETS STA 2208+00 TO STA 2232+00

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-01-PW	MCHENRY	1751	556
CONTRACT NO.			61E53	
ILLINOIS FED. AID PROJECT				



MATCH LINE STATION 1341+00
SEE BELOW LEFT



SEE ABOVE RIGHT
MATCH LINE STATION 1341+00

MATCH LINE STATION 1353+00
SEE SHEET NO. 558

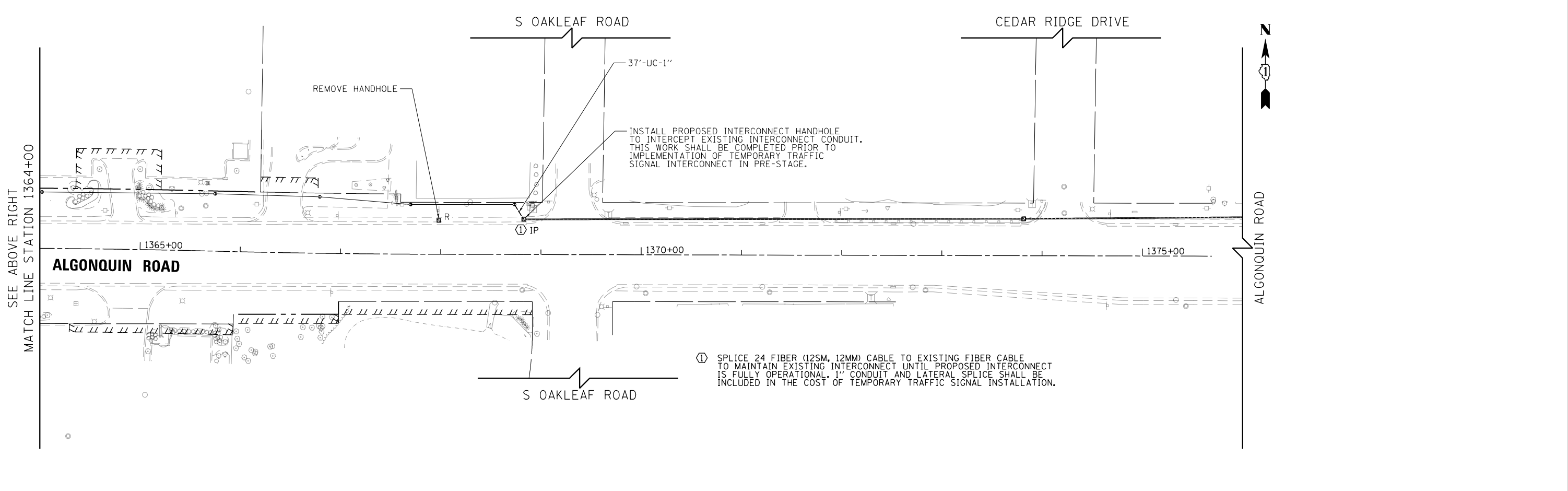
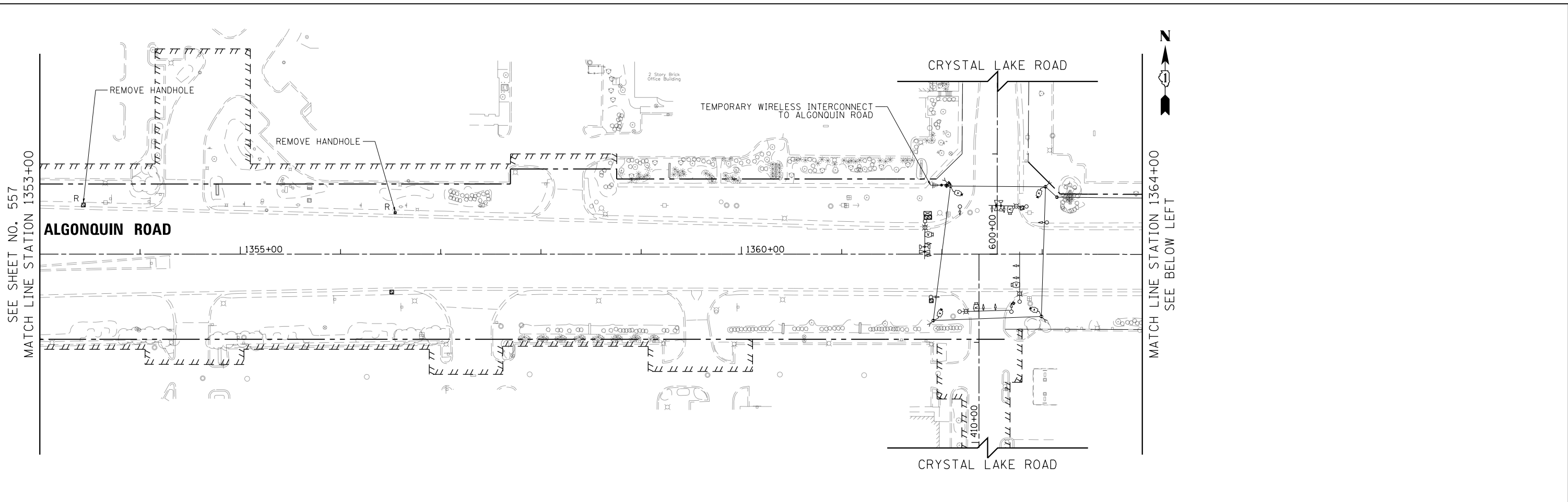
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PLOT DATE = 4/25/2018	DATE - 4-26-2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY WIRELESS INTERCONNECT PLAN
ALGONQUIN RD (RANDALL RD TO CRYSTAL LAKE RD)**

SCALE: 1" = 50' SHEET 55 OF 66 SHEETS STA 1334+00 TO STA 1353+00

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-01-PW	MCHENRY	1751	557
CONTRACT NO.			61E53	
ILLINOIS FED. AID PROJECT				



① SPLICE 24 FIBER (12SM, 12MM) CABLE TO EXISTING FIBER CABLE TO MAINTAIN EXISTING INTERCONNECT UNTIL PROPOSED INTERCONNECT IS FULLY OPERATIONAL. 1" CONDUIT AND LATERAL SPLICE SHALL BE INCLUDED IN THE COST OF TEMPORARY TRAFFIC SIGNAL INSTALLATION.

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FILENAME = D:\NNNN-sht-TST-INTER-9	DRAWN - BTW	REVISED -
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PLOT DATE = 4/25/2018	DATE - 4-26-2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY WIRELESS INTERCONNECT PLAN
ALGONQUIN RD (RANDALL RD TO CRYSTAL LAKE RD)**

SCALE: 1" = 50' SHEET 56 OF 66 SHEETS STA 1353+00 TO STA 1368+95.01

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-01-PW	MCHENRY	1751	558
			CONTRACT NO. 61E53	
ILLINOIS FED. AID PROJECT				

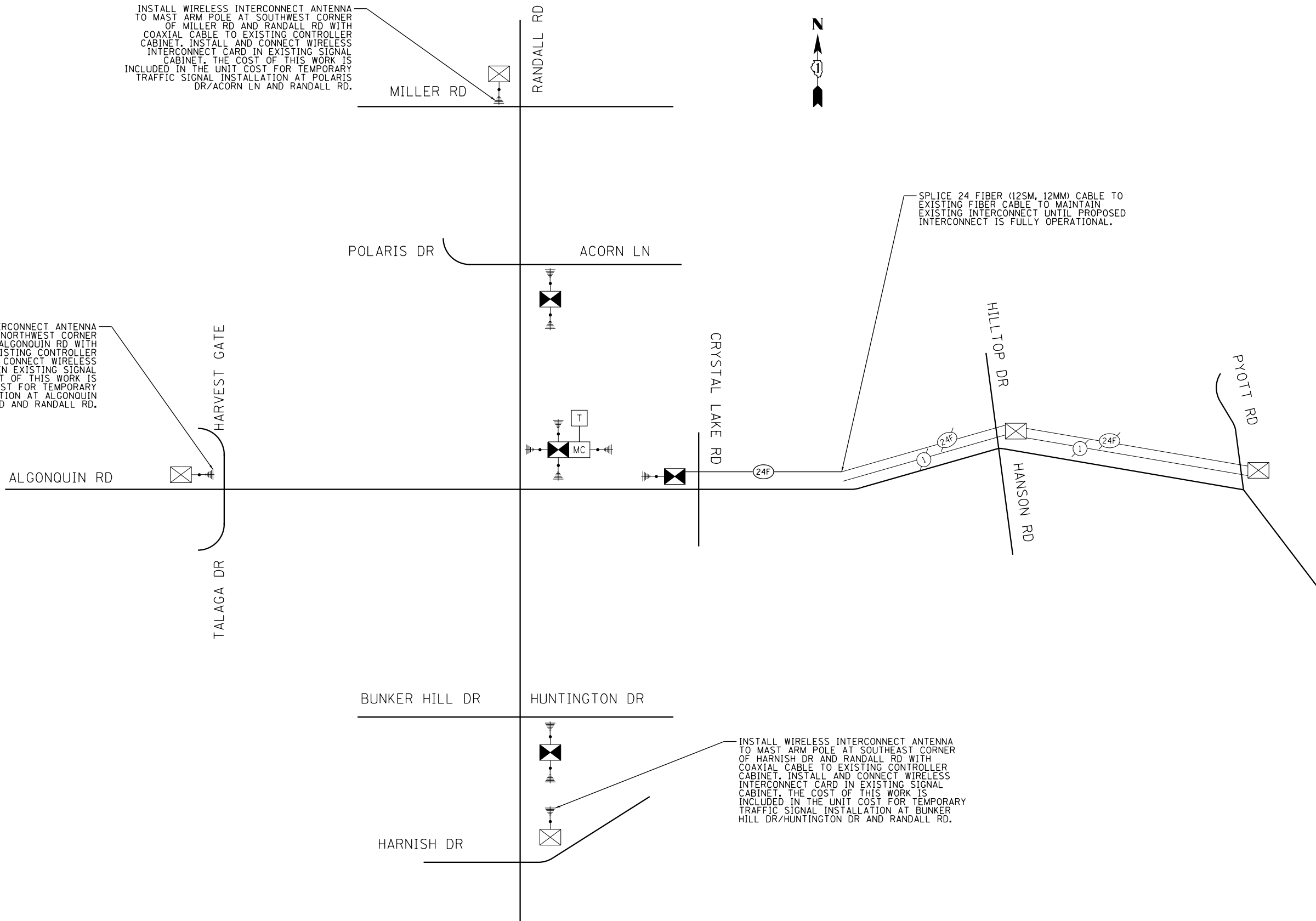


INSTALL WIRELESS INTERCONNECT ANTENNA TO MAST ARM POLE AT SOUTHWEST CORNER OF MILLER RD AND RANDALL RD WITH COAXIAL CABLE TO EXISTING CONTROLLER CABINET. INSTALL AND CONNECT WIRELESS INTERCONNECT CARD IN EXISTING SIGNAL CABINET. THE COST OF THIS WORK IS INCLUDED IN THE UNIT COST FOR TEMPORARY TRAFFIC SIGNAL INSTALLATION AT POLARIS DR/ACORN LN AND RANDALL RD.

INSTALL WIRELESS INTERCONNECT ANTENNA TO MAST ARM POLE AT NORTHWEST CORNER OF HARVEST GATE AND ALGONQUIN RD WITH COAXIAL CABLE TO EXISTING CONTROLLER CABINET. INSTALL AND CONNECT WIRELESS INTERCONNECT CARD IN EXISTING SIGNAL CABINET. THE COST OF THIS WORK IS INCLUDED IN THE UNIT COST FOR TEMPORARY TRAFFIC SIGNAL INSTALLATION AT ALGONQUIN RD AND RANDALL RD.

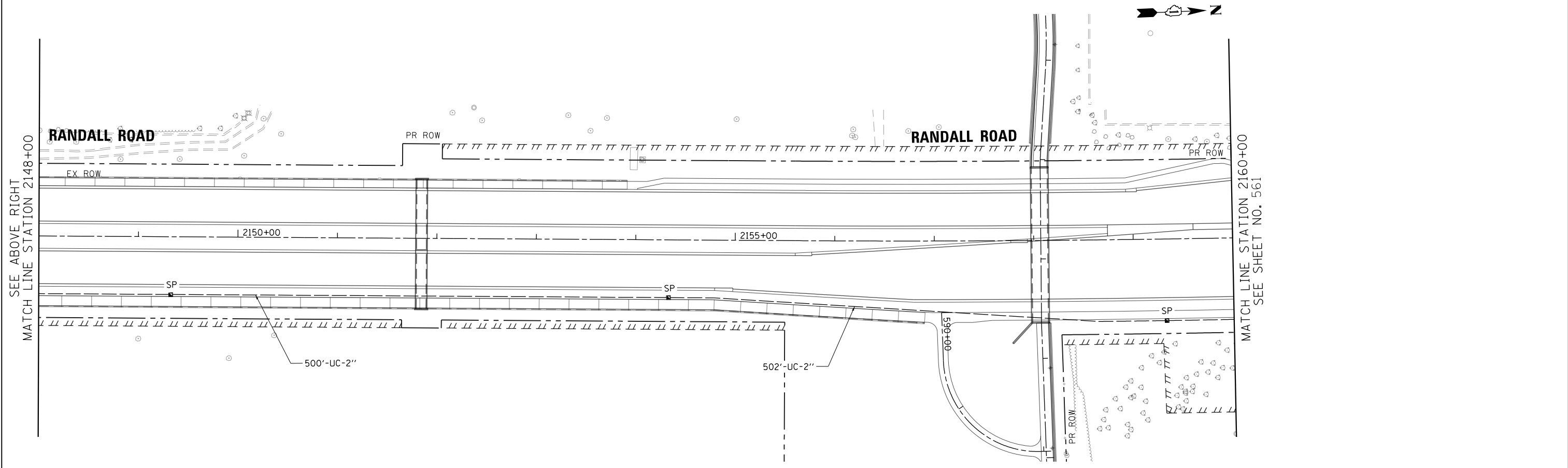
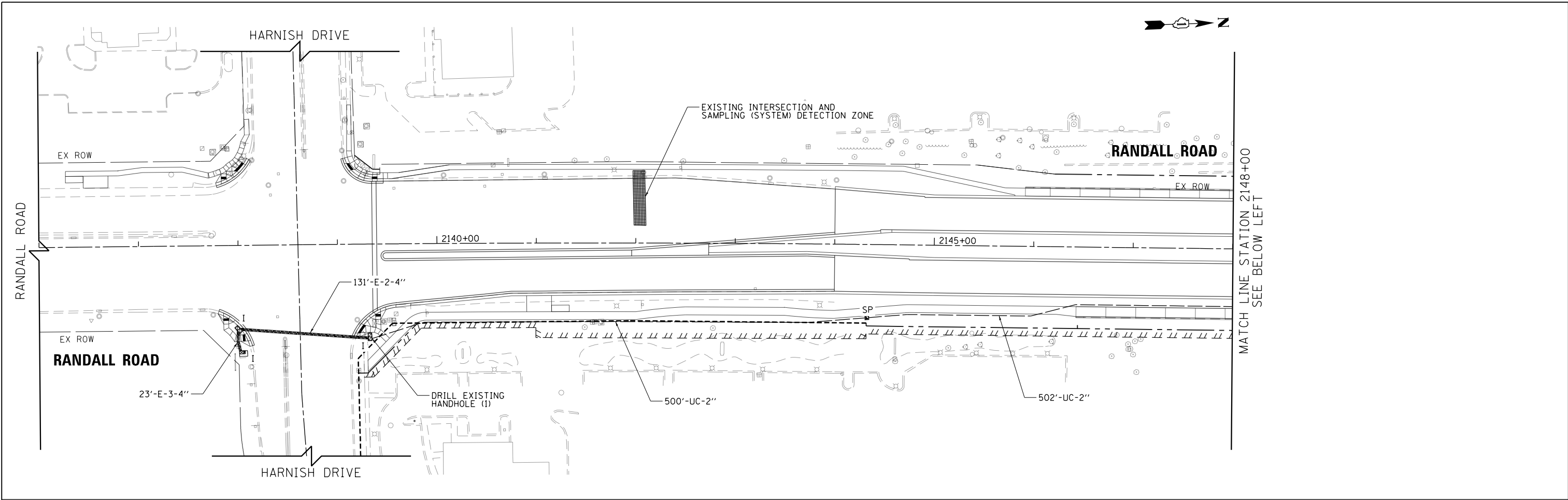
INSTALL WIRELESS INTERCONNECT ANTENNA TO MAST ARM POLE AT SOUTHEAST CORNER OF HARNISH DR AND RANDALL RD WITH COAXIAL CABLE TO EXISTING CONTROLLER CABINET. INSTALL AND CONNECT WIRELESS INTERCONNECT CARD IN EXISTING SIGNAL CABINET. THE COST OF THIS WORK IS INCLUDED IN THE UNIT COST FOR TEMPORARY TRAFFIC SIGNAL INSTALLATION AT BUNKER HILL DR/HUNTINGTON DR AND RANDALL RD.

SPLICE 24 FIBER (12SM, 12MM) CABLE TO EXISTING FIBER CABLE TO MAINTAIN EXISTING INTERCONNECT UNTIL PROPOSED INTERCONNECT IS FULLY OPERATIONAL.



- NOTES:**
1. THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

USER NAME = mrc1ss	DESIGNED - BTW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY INTERCONNECT SCHEMATIC RANDALL RD (BUNKER HILL DR TO POLARIS DR)		FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
FILENAME = D:\NNNNN-sht-TST-INTER-SCHEM	DRAWN - BTW	REVISED -		SCALE: NONE	SHEET 57	OF 66 SHEETS	STA	TO STA	336	06-00329-01-PW	MCHENRY	1751	559
PLOT SCALE = 40.0000' / in.	CHECKED - GR	REVISED -								CONTRACT NO. 61E53			
PLOT DATE = 4/25/2018	DATE - 4-26-2018	REVISED -								ILLINOIS FED. AID PROJECT			



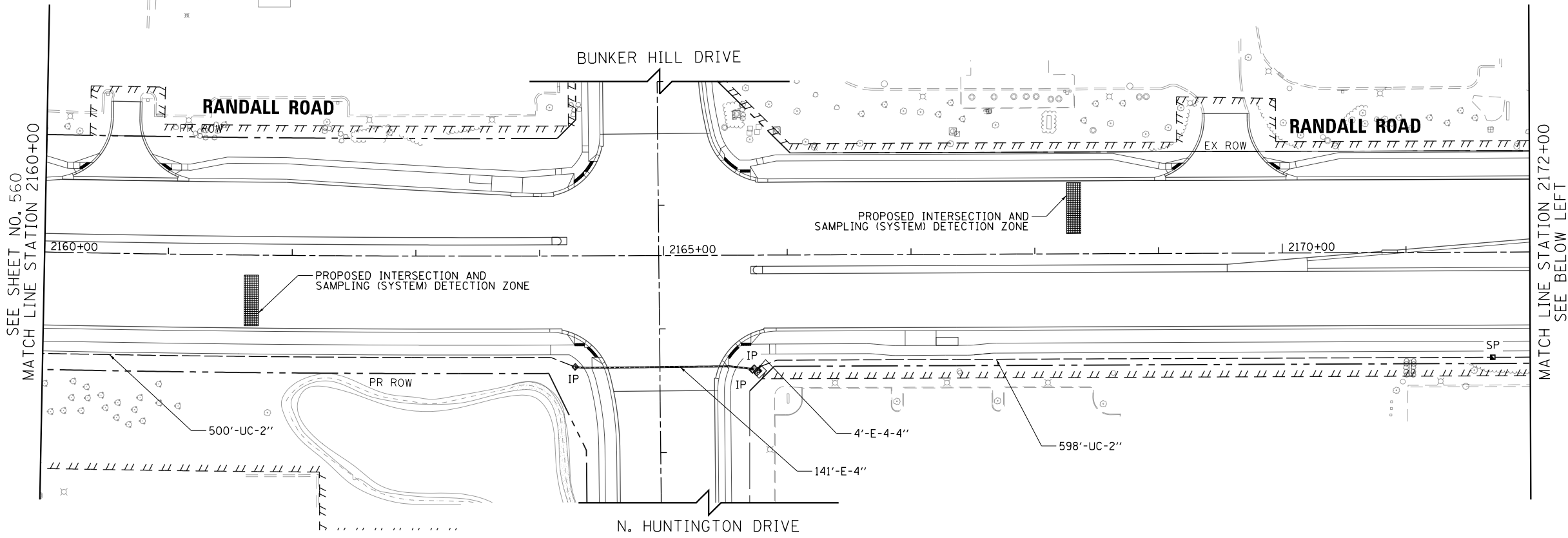
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PLOT DATE = 4/25/2018	DATE - 4-26-2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INTERCONNECT PLAN
RANDALL RD (BUNKER HILL DR TO POLARIS DR)**

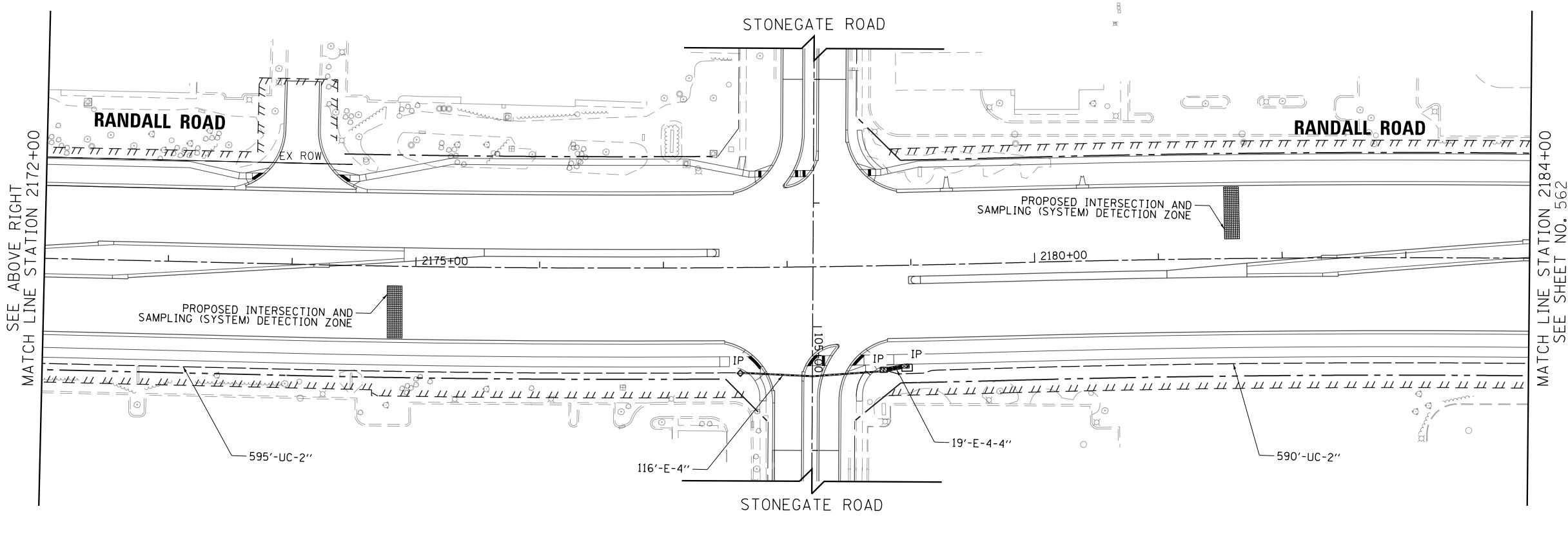
SCALE: 1" = 50' SHEET 58 OF 66 SHEETS STA 2144+06.63 TO STA 2160+00

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-01-PW	MCHENRY	1751	560
CONTRACT NO.			61E53	
ILLINOIS FED. AID PROJECT				



SEE SHEET NO. 560
MATCH LINE STATION 2160+00

MATCH LINE STATION 2172+00
SEE BELOW LEFT



SEE ABOVE RIGHT
MATCH LINE STATION 2172+00

MATCH LINE STATION 2184+00
SEE SHEET NO. 562



USER NAME = mrc155	DESIGNED - BTW	REVISED -
FILENAME = D:\NNNN\shd-TSP-INTER-2	DRAWN - BTW	REVISED -
PLOT SCALE = 100.0000' / 1in.	CHECKED - GR	REVISED -
PLOT DATE = 4/25/2018	DATE - 4-26-2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

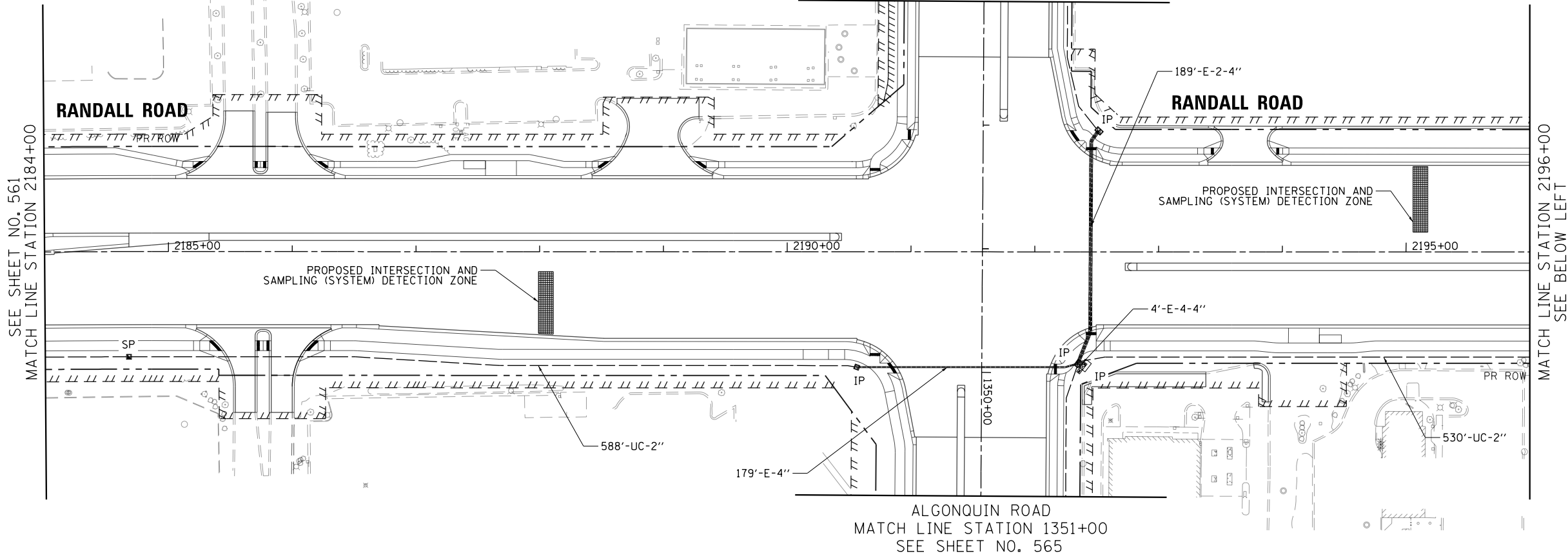
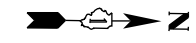
**INTERCONNECT PLAN
RANDALL RD (BUNKER HILL DR TO POLARIS DR)**

SCALE: 1" = 50' SHEET 59 OF 66 SHEETS STA 2160+00 TO STA 2184+00

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-01-PW	MCHENRY	1751	561
CONTRACT NO.			61E53	

ILLINOIS FED. AID PROJECT

SEE SHEET NO. 564
MATCH LINE STATION 1347+00
ALGONQUIN ROAD

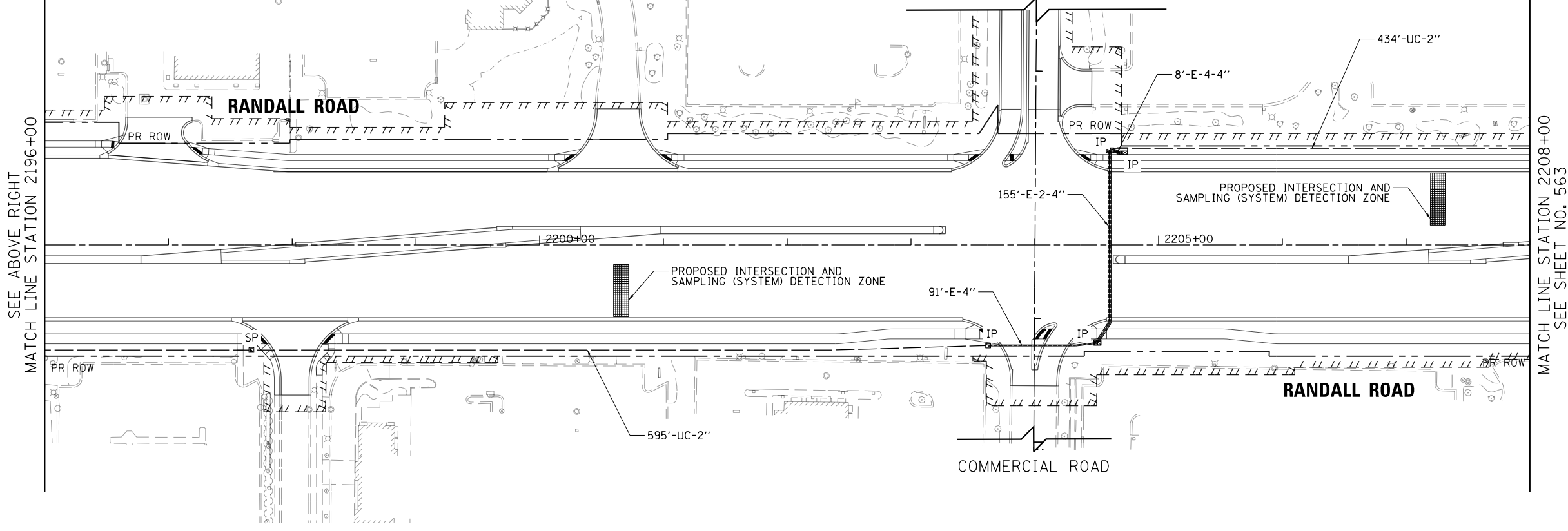
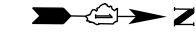


SEE SHEET NO. 561
MATCH LINE STATION 2184+00

MATCH LINE STATION 2196+00
SEE BELOW LEFT

ALGONQUIN ROAD
MATCH LINE STATION 1351+00
SEE SHEET NO. 565

COMMERCIAL ROAD



SEE ABOVE RIGHT
MATCH LINE STATION 2196+00

MATCH LINE STATION 2208+00
SEE SHEET NO. 563



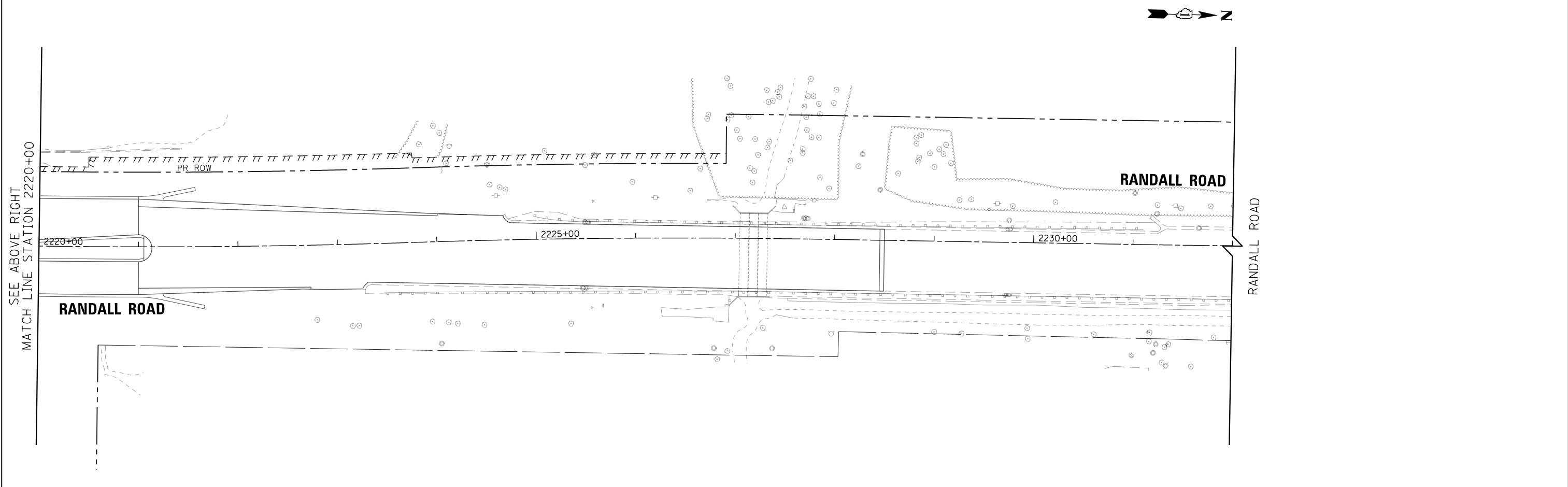
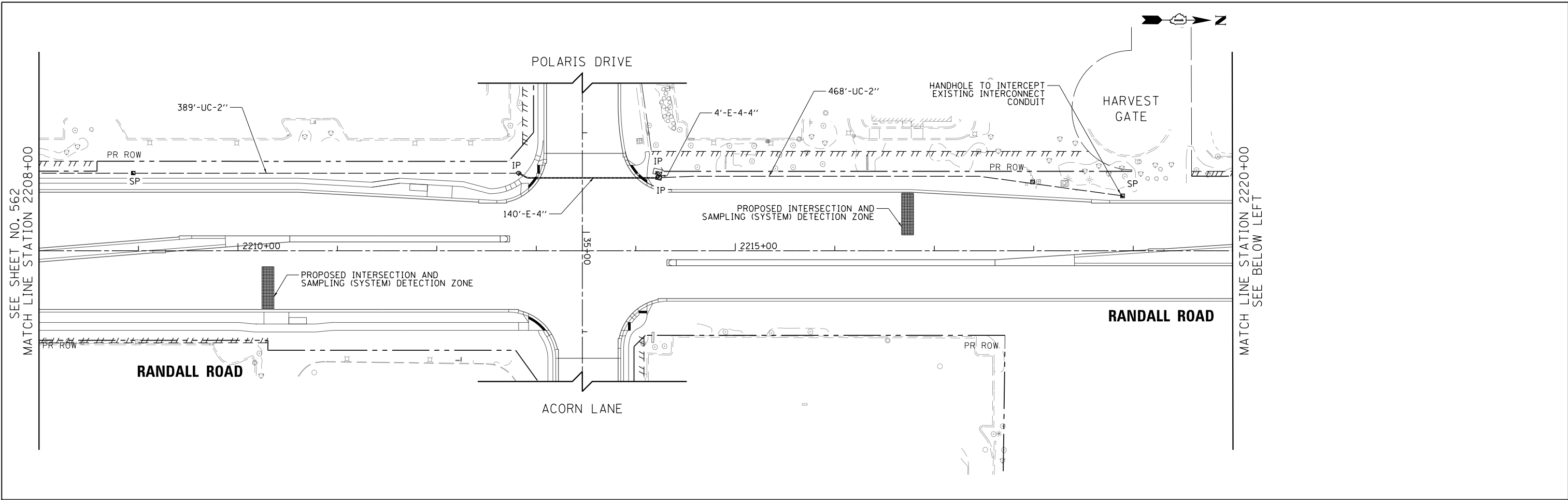
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PLOT DATE = 4/25/2018	DATE - 4-26-2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCONNECT PLAN
RANDALL RD (BUNKER HILL DR TO POLARIS DR)

SCALE: 1" = 50' SHEET 60 OF 66 SHEETS STA 2184+00 TO STA 2208+00

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-01-PW	MCHENRY	1751	562
CONTRACT NO.			61E53	
ILLINOIS FED. AID PROJECT				



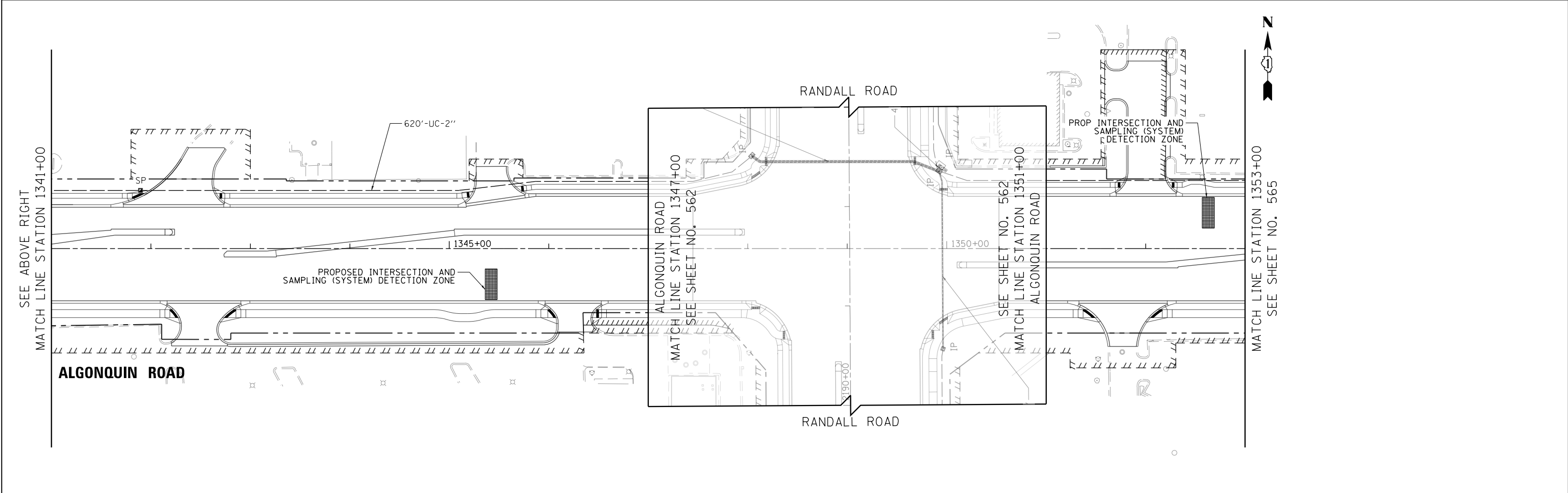
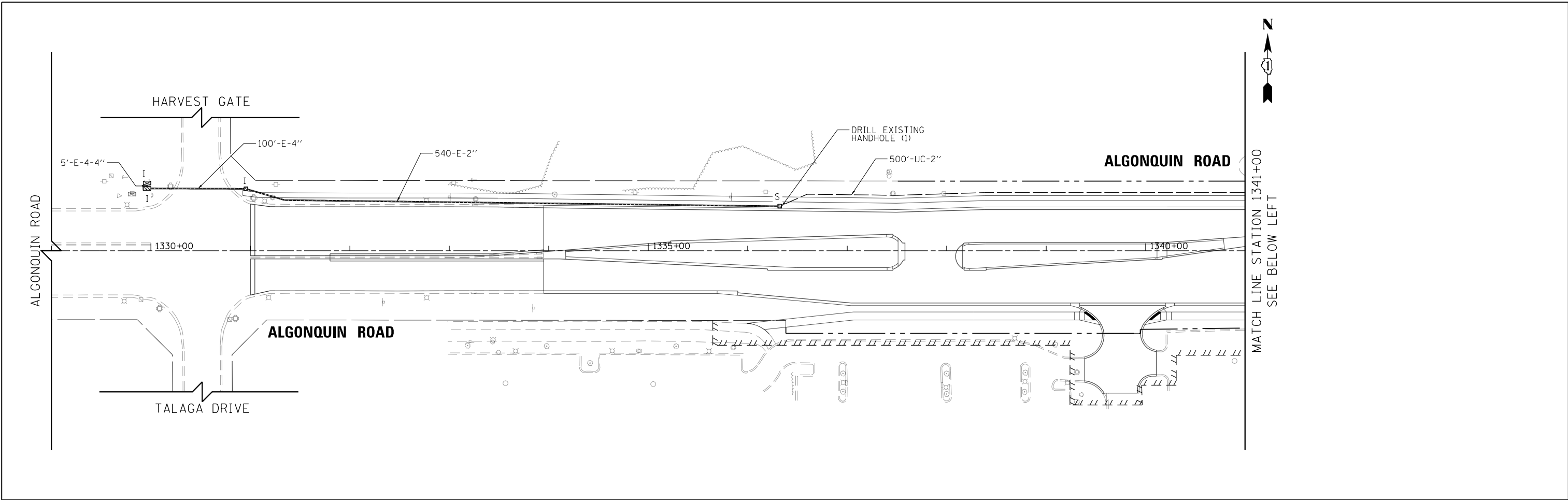
USER NAME = mrc155	DESIGNED - BTW	REVISED -
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PLOT DATE = 4/25/2018	DATE - 4-26-2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INTERCONNECT PLAN
RANDALL RD (BUNKER HILL DR TO POLARIS DR)**

SCALE: 1" = 50' SHEET 61 OF 66 SHEETS STA 2208+00 TO STA 2232+00

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-01-PW	MCHENRY	1751	563
CONTRACT NO.			61E53	
ILLINOIS FED. AID PROJECT				

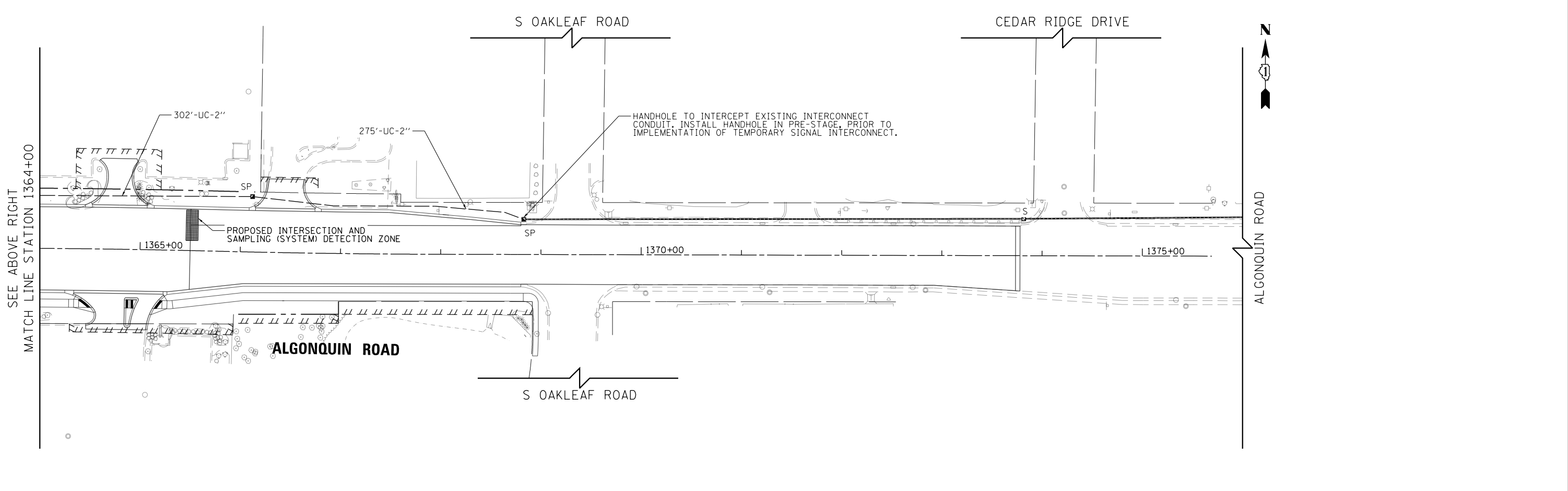
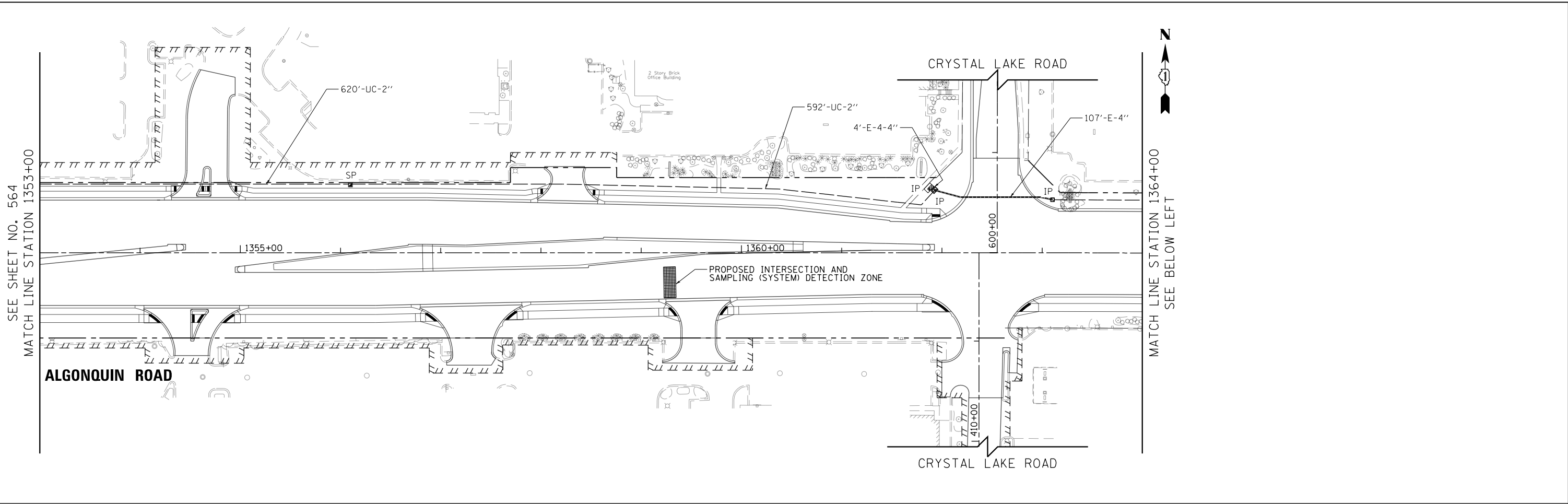


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PLOT DATE = 4/25/2018	DATE - 4-26-2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

INTERCONNECT PLAN			
ALGONQUIN RD (RANDALL RD TO CRYSTAL LAKE RD)			
SCALE: 1" = 50'	SHEET 62	OF 66 SHEETS	STA 1334+00 TO STA 1353+00

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-01-PW	MCHENRY	1751	564
CONTRACT NO.			61E53	
ILLINOIS FED. AID PROJECT				



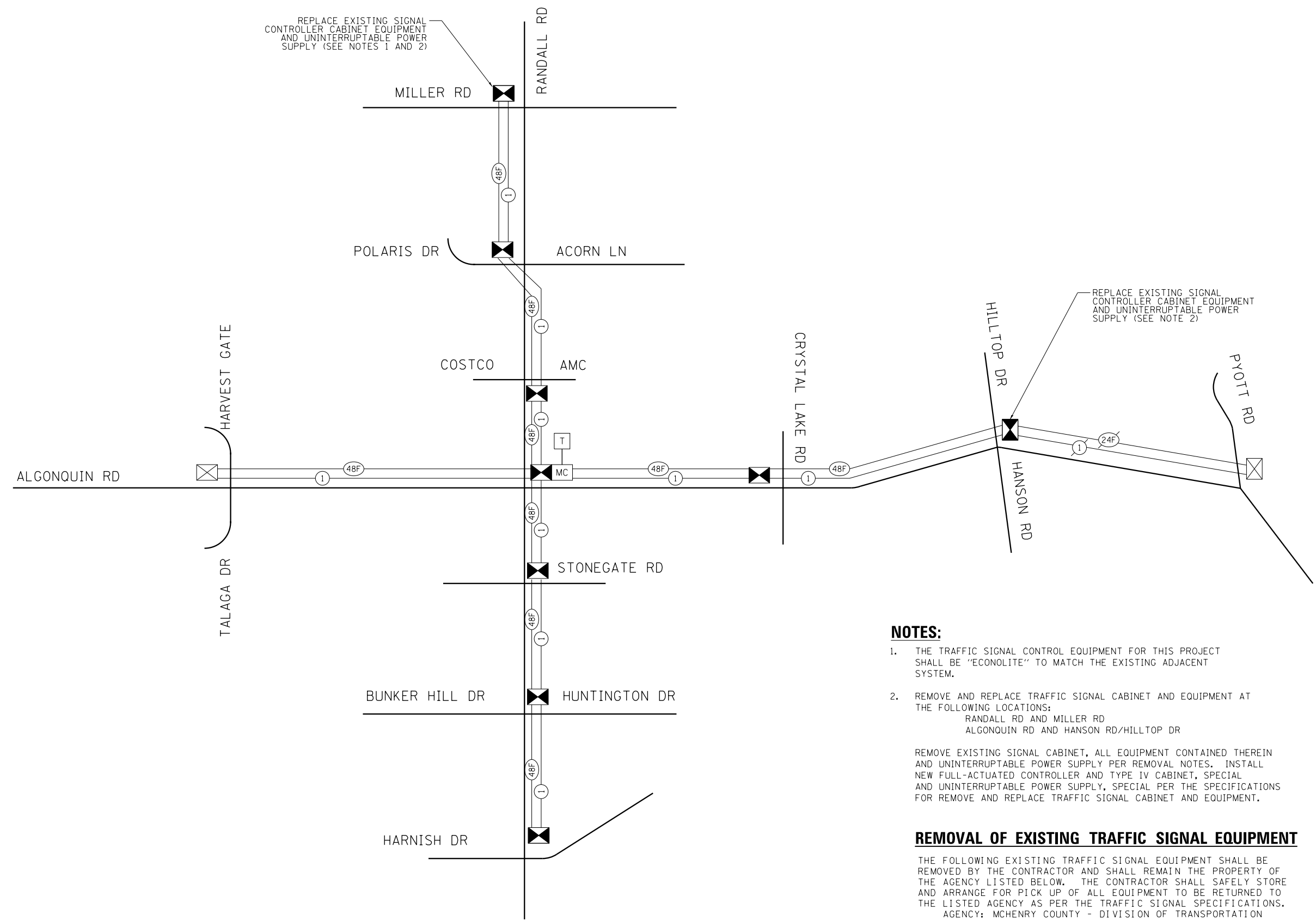
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PLOT DATE = 4/25/2018	DATE - 4-26-2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INTERCONNECT PLAN
ALGONQUIN RD (RANDALL RD TO CRYSTAL LAKE RD)**

SCALE: 1" = 50' SHEET 63 OF 66 SHEETS STA 1353+00 TO STA 1368+95.01

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-01-PW	MCHENRY	1751	565
CONTRACT NO.			61E53	
ILLINOIS FED. AID PROJECT				



NOTES:

1. THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.
2. REMOVE AND REPLACE TRAFFIC SIGNAL CABINET AND EQUIPMENT AT THE FOLLOWING LOCATIONS:
 RANDALL RD AND MILLER RD
 ALGONQUIN RD AND HANSON RD/HILLTOP DR

 REMOVE EXISTING SIGNAL CABINET, ALL EQUIPMENT CONTAINED THEREIN AND UNINTERRUPTABLE POWER SUPPLY PER REMOVAL NOTES. INSTALL NEW FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL AND UNINTERRUPTABLE POWER SUPPLY, SPECIAL PER THE SPECIFICATIONS FOR REMOVE AND REPLACE TRAFFIC SIGNAL CABINET AND EQUIPMENT.

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR PICK UP OF ALL EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.
 AGENCY: MCHENRY COUNTY - DIVISION OF TRANSPORTATION

- RANDALL RD AND MILLER ROAD
 1 EACH CONTROLLER AND CABINET (COMPLETE)
 1 EACH UNINTERRUPTABLE POWER SUPPLY
- ALGONQUIN RD AND HANSON RD/HILLTOP DR
 1 EACH CONTROLLER AND CABINET (COMPLETE)
 1 EACH UNINTERRUPTABLE POWER SUPPLY



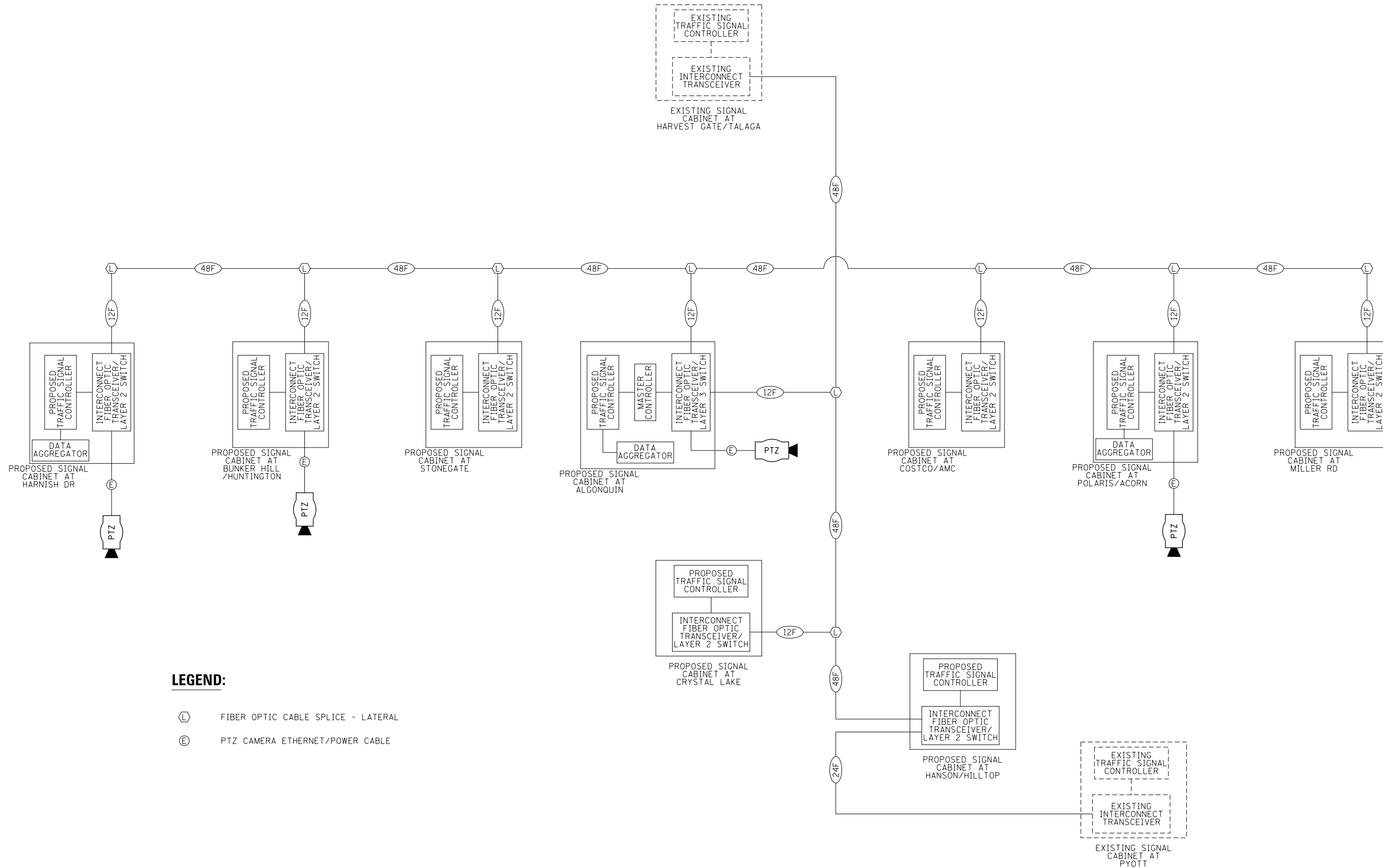
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PLOT DATE = 4/25/2018	DATE - 4-26-2018	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PROPOSED INTERCONNECT SCHEMATIC
 RANDALL RD (BUNKER HILL DR TO POLARIS DR)**

SCALE: NONE SHEET 64 OF 66 SHEETS STA TO STA

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-01-PW	MCHENRY	1751	566
			CONTRACT NO.	61E53
ILLINOIS FED. AID PROJECT				



LEGEND:

- (L) FIBER OPTIC CABLE SPLICE - LATERAL
- (E) PTZ CAMERA ETHERNET/POWER CABLE



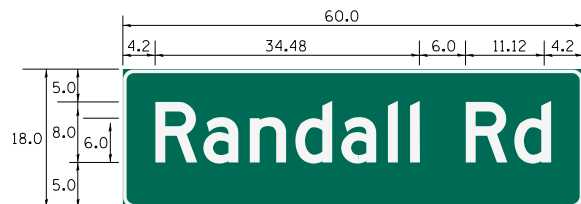
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

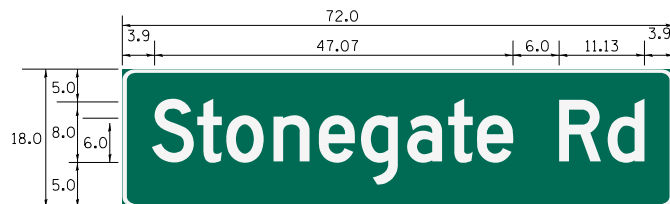
**PROPOSED INTERCONNECT AND TRAFFIC SURVEILLANCE
FIBER OPTIC CONNECTIONS AND CABINETS SCHEMATIC**

SCALE: NONE SHEET 65 OF 66 SHEETS STA TO STA

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-01-PW	MCHENRY	1751	567
CONTRACT NO.			61E53	
ILLINOIS FED. AID PROJECT				



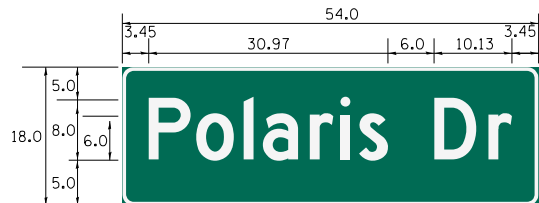
DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	7.5	LED	N/A	12



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	9.0	LED	N/A	2



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	9.0	LED	N/A	4



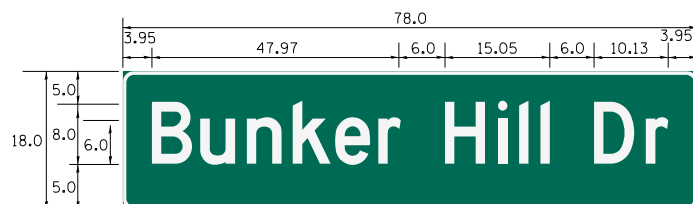
DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	6.75	LED	N/A	1



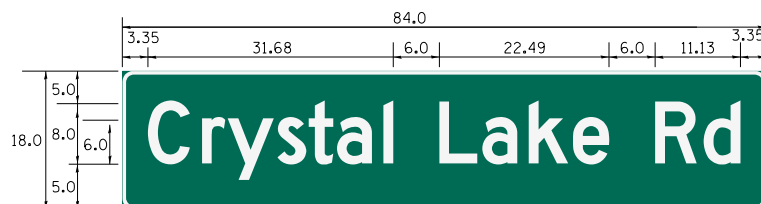
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D	7.5	LED	N/A	2



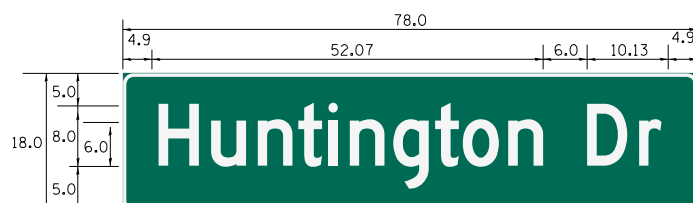
DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	6.75	LED	N/A	1



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	9.75	LED	N/A	1



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	10.5	LED	N/A	2



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	9.75	LED	N/A	1



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	10.5	LED	N/A	2

NOTES:

- FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION, PLEASE SEE DISTRICT ONE "MAST ARM MOUNTED STREET NAME SIGNS" DETAIL AND "LED ILLUMINATED STREET NAME INSTALLATION AND WIRING DIAGRAM DETAIL".



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAST ARM MOUNTED
STREET NAME SIGNS

SCALE: NONE SHEET 66 OF 66 SHEETS STA TO STA

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-01-PW	MCHENRY	1751	568
CONTRACT NO.			61E53	
ILLINOIS FED. AID PROJECT				

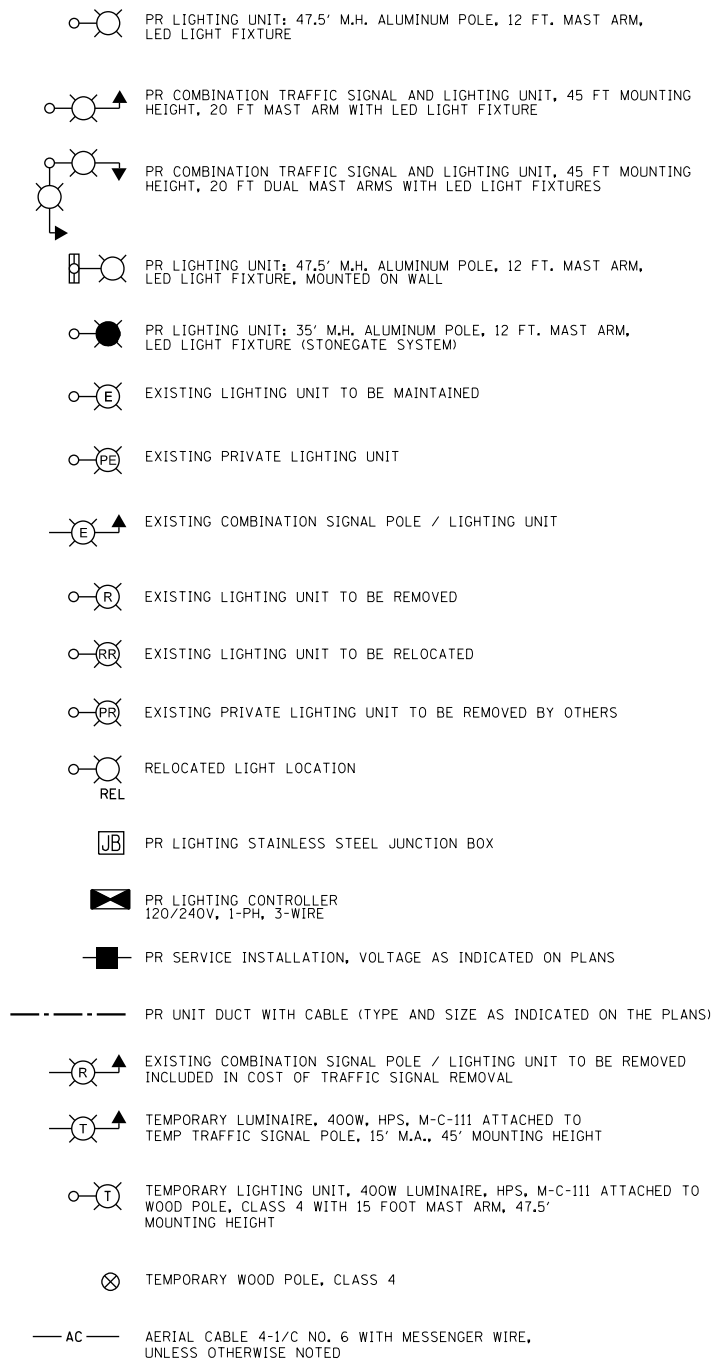
SCHEDULE OF QUANTITIES

ITEM NO.	ITEM NAME	UNIT	QUANTITY
80400100	ELECTRIC SERVICE INSTALLATION	EACH	6
80400200	UTILITY SERVICE CONNECTION	LSUM	1
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	520
81028210	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	30
81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	4407
81100300	CONDUIT ATTACHED TO STRUCTURE, 1" DIA., GALVANIZED STEEL	FOOT	335
81100500	CONDUIT ATTACHED TO STRUCTURE, 1 1/2" DIA., GALVANIZED STEEL	FOOT	30
81200100	CONDUIT EMBEDDED IN STRUCTURE, 1" DIA., GALVANIZED STEEL	FOOT	1727
81200240	CONDUIT EMBEDDED IN STRUCTURE, 2 1/2" DIA., PVC	FOOT	798
81300100	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE 4"x4"x3"	EACH	26
81300320	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE 8"x8"x6"	EACH	6
81304000	JUNCTION BOX, STAINLESS STEEL, EMBEDDED IN STRUCTURE 8"x8"x6"	EACH	4
81304100	JUNCTION BOX EMBEDDED IN STRUCTURE 12"x12"x6"	EACH	2
81603037	UNIT DUCT, 600V, 2-1C NO. 6, 1/C NO. 6 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT	2272
81603110	UNIT DUCT, 600V, 4-1C NO. 4, 1/C NO. 6 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE	FOOT	25517
81702110	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	8041
81702120	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 8	FOOT	5842
81702400	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 2	FOOT	150
81702440	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 1/0	FOOT	150
81800415	AERIAL CABLE, 4-1/C NO. 6, WITH MESSENGER WIRE	FOOT	21000
82500350	LIGHTING CONTROLLER, BASE MOUNTED, 240V, 100AMP	EACH	2
82500370	LIGHTING CONTROLLER, BASE MOUNTED, 240V, 200AMP	EACH	3
83007500	LIGHT POLE, ALUMINUM, 35 FT. M.H., 12 FT. MAST ARM	EACH	12
83050800	LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 12 FT. MAST ARM	EACH	155
83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	1820
83800105	BREAKAWAY DEVICE, TRANSFORMER BASE, 11.5 INCH BOLT CIRCLE	EACH	12
83800205	BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE	EACH	155
84200500	REMOVAL OF LIGHTING UNIT, SALVAGE	EACH	6
84200600	REMOVAL OF LIGHTING UNIT, NO SALVAGE	EACH	94
84200804	REMOVAL OF POLE FOUNDATION	EACH	99
84500130	REMOVAL OF LIGHTING CONTROLLER FOUNDATION	EACH	3
X0322141	REMOVE TEMPORARY WOOD POLE	EACH	83
X0327004	TEMPORARY WOOD POLE, 60 FT., CLASS 4 WITH 15' MOUNTING ARM	EACH	83
X1400202	LUMINAIRE (SPECIAL)	EACH	31
X8210040	TEMPORARY LUMINAIRE, HIGH PRESSURE SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT	EACH	75
X8211000	UNDERPASS LUMINAIRE (SPECIAL)	EACH	26
X8211125	LUMINAIRE, LED, HORIZONTAL MOUNT, SPECIAL	EACH	188
X8250505	LIGHTING CONTROLLER, SPECIAL	EACH	1
X8360120	LIGHT POLE FOUNDATION, SPECIAL	EACH	12
X8950077	REMOVE AND RELOCATE EXISTING LIGHTING CONTROLLER	EACH	3
Z0033020	LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	12
Z0033028	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	22

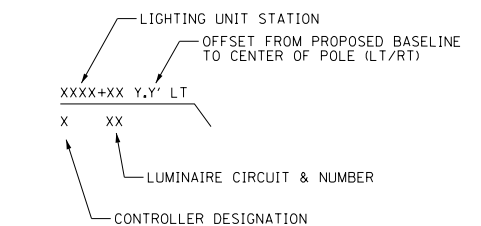
GENERAL NOTES

- ROADWAY LIGHTING REQUIREMENTS FOR THIS PROJECT SHALL COMPLY WITH THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION), IDOT AND RECURRING SPECIAL PROVISIONS, CONTRACT SPECIAL PROVISIONS, AND THE AMERICAN NATIONAL STANDARD PRACTICE FOR ROADWAY LIGHTING AND THE ANSI/IES RP-8.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MARK THE PROPOSED LOCATIONS OF ALL LIGHT POLES AND THE LIGHTING CONTROLLER FOR EXAMINATION AND CONFIRMATION WITH THE ENGINEER. THE EXACT LOCATIONS OF ALL ITEMS SHALL BE CONFIRMED WITH THE ENGINEER PRIOR TO STARTING WORK.
- TO MAINTAIN THE STRUCTURAL INTEGRITY OF ALUMINUM POLES WITH MAST ARMS, THEY SHALL NOT BE ERECTED AND LEFT TO STAND WITHOUT LUMINAIRES. NOTE THAT THE CONTRACTOR SHALL NOT BE PAID FOR POLES UNTIL LUMINAIRES ARE INSTALLED. NO POLES SHALL BE ERECTED UNTIL THE RESPECTIVE FOUNDATIONS HAVE CURED, AS APPROVED BY THE ENGINEER.
- THE CONTRACTOR SHALL VERIFY THE REQUIREMENTS FOR THE ELECTRICAL SERVICE FOR THE PROPOSED ROADWAY LIGHTING. IT IS THE CONTRACTOR'S RESPONSIBILITY FOR TIMELY NOTIFICATION AND COORDINATION WITH THE ELECTRIC UTILITY COMPANY.
- THE LIGHTING CONTROLLER SHALL BE CONSTRUCTED TO UL STANDARD 508.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ESTABLISHMENT OF FINISHED GRADE. THE ENGINEER MAY ASSIST THE CONTRACTOR, AS APPLICABLE, BUT THE RESPONSIBILITY FOR COORDINATING THE FINISHED GRADE ELEVATION WITH THE TOP OF THE FOUNDATIONS HEIGHTS AND THE LIKE SHALL REMAIN WITH THE CONTRACTOR.
- THE CONTRACTOR SHALL MAKE SPECIAL NOTE OF THE REQUIREMENT FOR BURIED WARNING TAPE, SPECIFIED AS PART OF "UNDERGROUND RACEWAYS". THE INSTALLATION OF THE TAPE SHALL BE INSPECTED AND APPROVED BY THE RESIDENT ENGINEER PRIOR TO BACKFILLING OR DURING PLOWING OPERATIONS, AS APPLICABLE.
- THE POLE SETBACK FOR THE PROPOSED LIGHTING UNITS SHALL BE 5 FEET MIN. FROM FACE OF CURB TO THE CENTER OF POLE, UNLESS OTHERWISE INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
- ALL UNIT DUCT FOR LIGHTING RUNS SHALL CONTAIN A INSULATED, GREEN TRACER WIRE 1/C, NO. 12, IN DUCT STRANDED. THE COST OF THE TRACER WIRE SHALL BE INCLUDED IN THE COST OF THE PAY ITEM UNIT DUCT, 600V, 4-1C NO. 4, 1/C NO. 6 GROUND (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE UNLESS OTHERWISE NOTED.
- TRACER CABLE SHALL BE SPLICED (WIRE NUT SPLICE) IN ALL POLE HANDHOLES WITHIN CIRCUIT AND TRACER CABLE TO BE GROUNDED AT THE END POLES, END OF CIRCUIT (GROUNDED WITH SYSTEM GROUND TO LIGHT POLE GROUNDING LUG).
- ALL WIRE SPLICING TO BE PERFORMED IN POLE HANDHOLE AND NOT IN TRANSFORMER BASE.
- MCDOT WILL INSTALL IDENTIFICATION NUMBERS AT ALL NEW NEW LIGHT POLES.

LEGEND



CIRCUIT DESIGNATION SCHEME



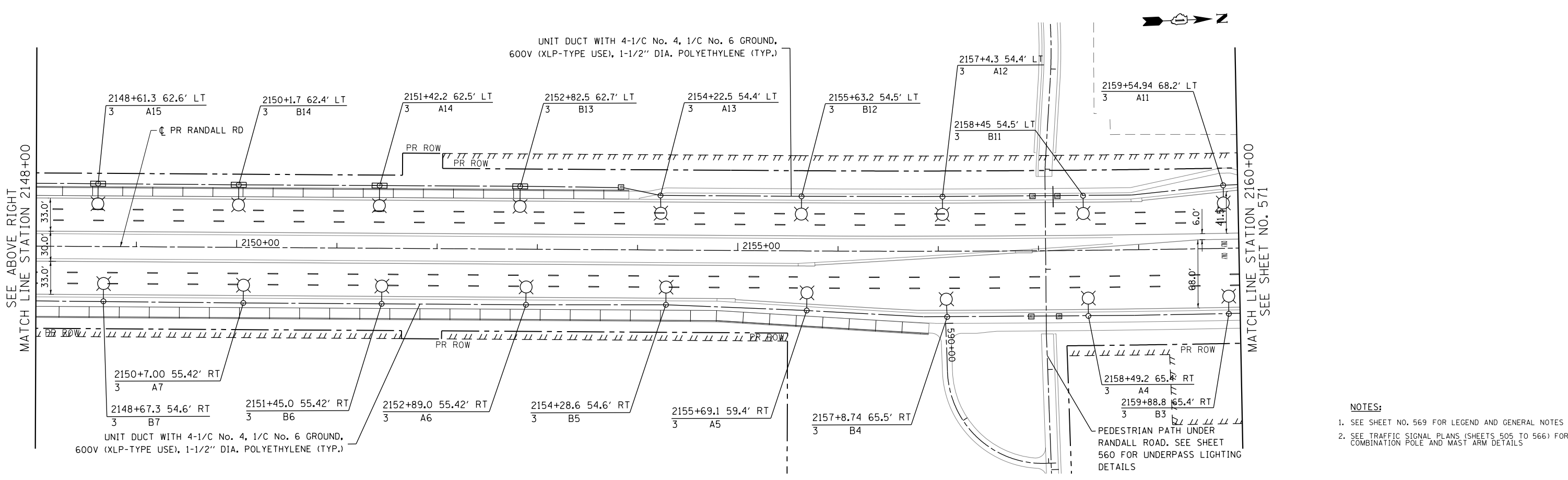
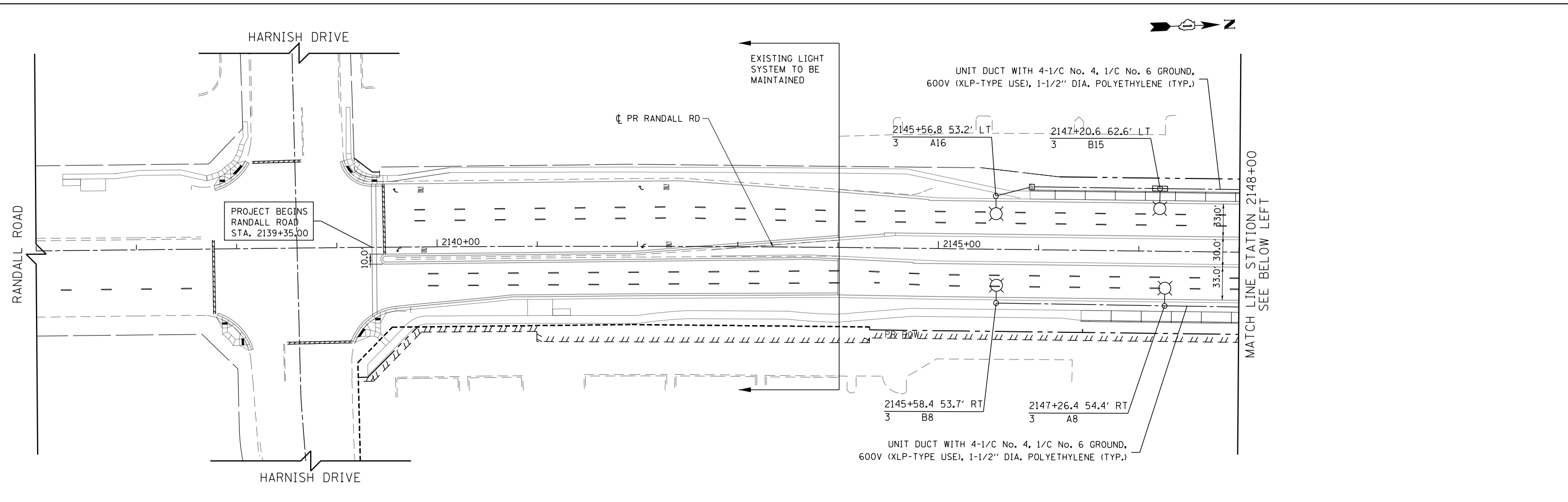
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RANDALL ROAD PROPOSED LIGHTING PLAN
GENERAL NOTES, LEGEND, AND SCEDULE OF QUANTITIES

SHEET 1 OF 1 SHEETS

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-01-PW	MCHENRY	1751	569
			CONTRACT NO.	61E53
ILLINOIS FED. AID PROJECT				



- NOTES:**
- SEE SHEET NO. 569 FOR LEGEND AND GENERAL NOTES
 - SEE TRAFFIC SIGNAL PLANS (SHEETS 505 TO 566) FOR COMBINATION POLE AND MAST ARM DETAILS



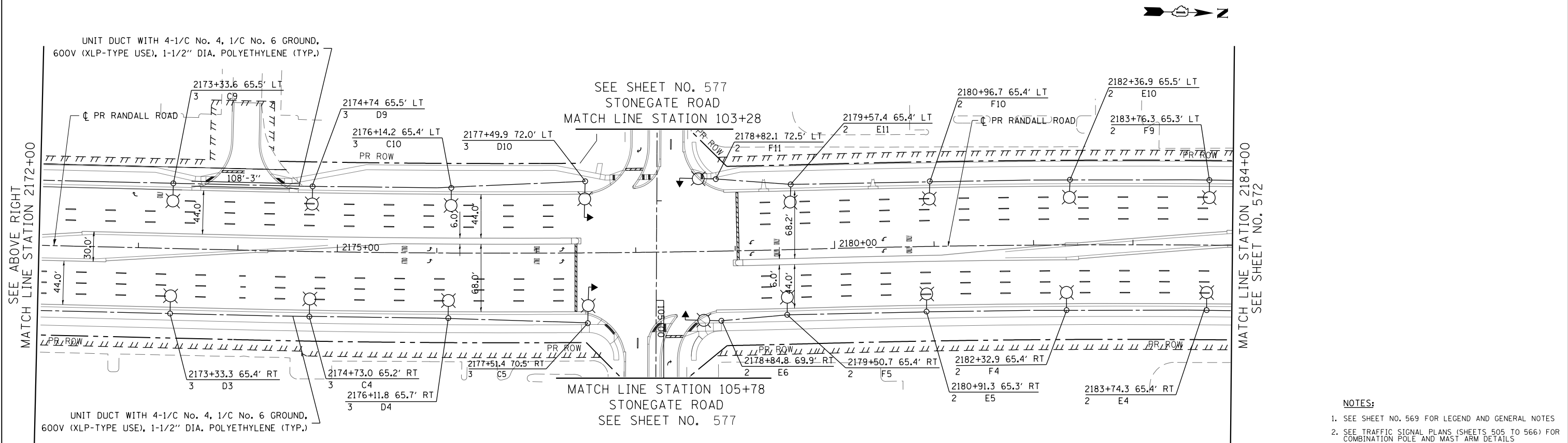
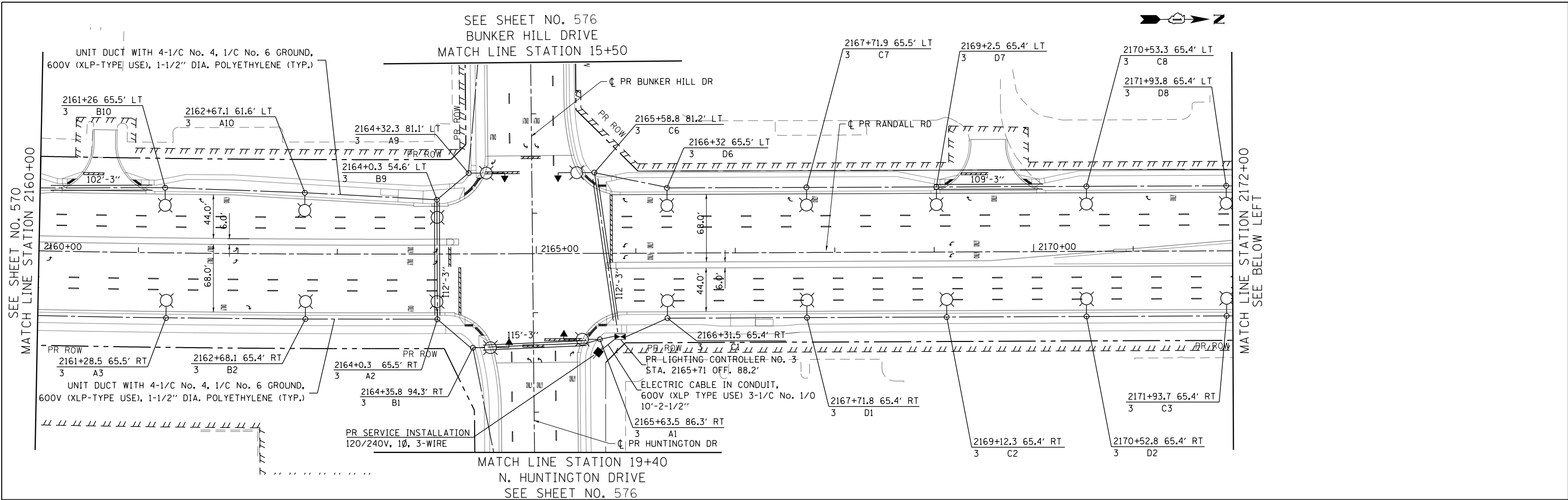
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PLOT DATE = 4/25/2018	DATE - 4-26-2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

RANDALL ROAD PROPOSED LIGHTING PLAN

SCALE: 1" = 50' SHEET 1 OF 11 SHEETS STA 2144+06.63 TO STA 2160+00

FAP RTE 336	SECTION 06-00329-01-PW	COUNTY MCHENRY	TOTAL SHEETS 1751	SHEET NO. 570
CONTRACT NO. 61E53			ILLINOIS FED. AID PROJECT	



- NOTES:**
- SEE SHEET NO. 569 FOR LEGEND AND GENERAL NOTES
 - SEE TRAFFIC SIGNAL PLANS (SHEETS 505 TO 566) FOR COMBINATION POLE AND MAST ARM DETAILS

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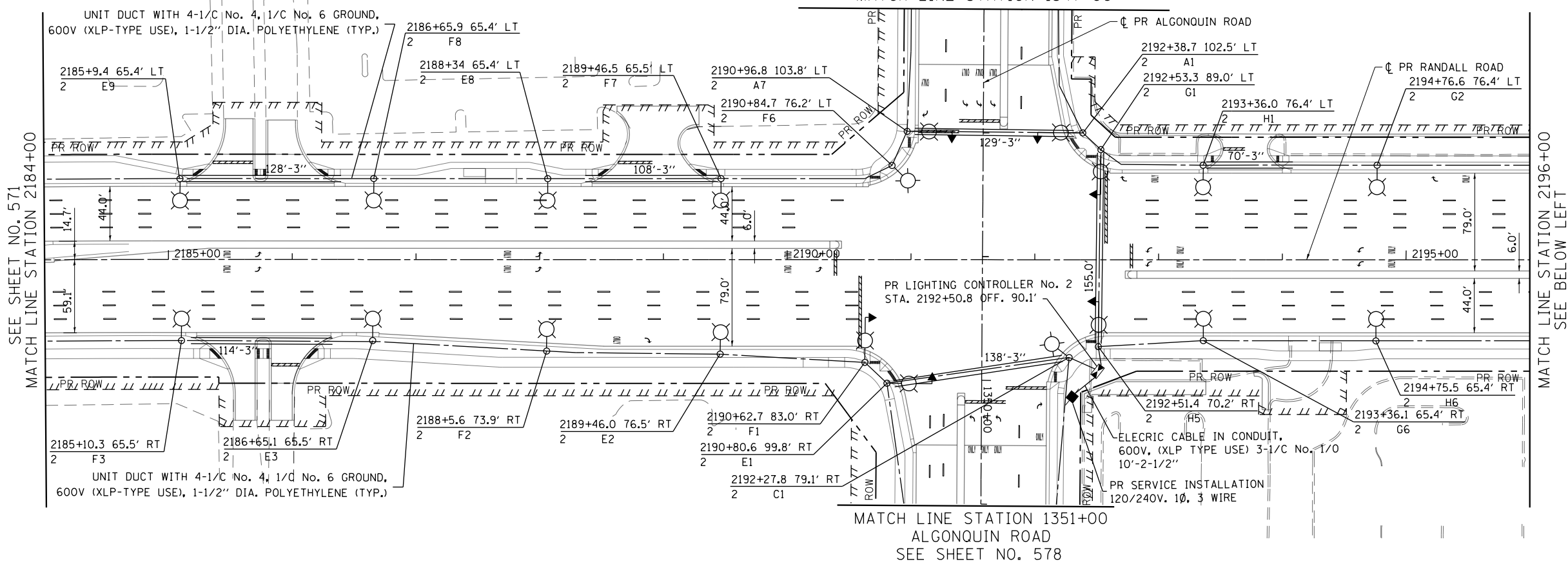
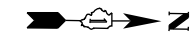
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RANDALL ROAD PROPOSED LIGHTING PLAN

SCALE: 1" = 50' SHEET 2 OF 11 SHEETS STA 2160+00 TO STA 2184+00

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-01-PW	MCHENRY	1751	571
CONTRACT NO.			61E53	
ILLINOIS FED. AID PROJECT				

SEE SHEET NO. 578
ALGONQUIN ROAD
MATCH LINE STATION 1347+00

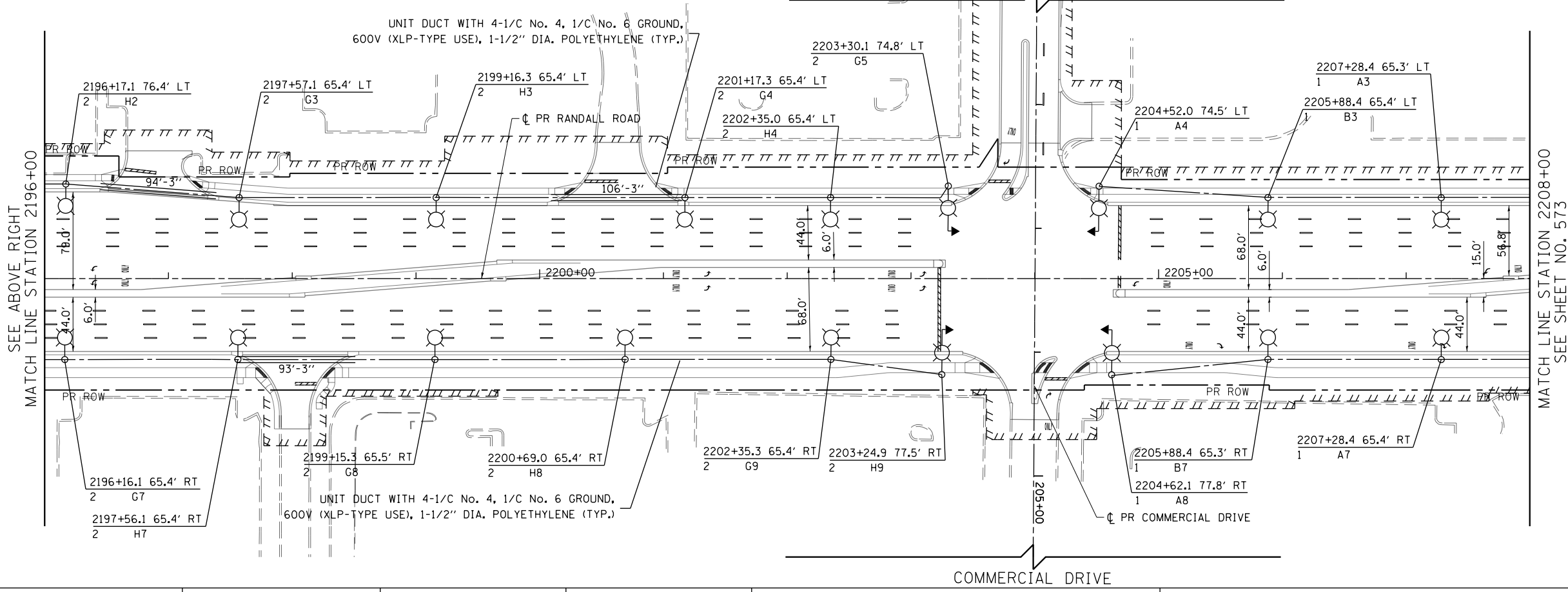
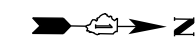


SEE SHEET NO. 571
MATCH LINE STATION 2184+00

MATCH LINE STATION 2196+00
SEE BELOW LEFT

MATCH LINE STATION 1351+00
ALGONQUIN ROAD
SEE SHEET NO. 578

COMMERCIAL DRIVE



SEE ABOVE RIGHT
MATCH LINE STATION 2196+00

MATCH LINE STATION 2208+00
SEE SHEET NO. 573

COMMERCIAL DRIVE



- NOTES:**
- SEE SHEET NO. 569 FOR LEGEND AND GENERAL NOTES
 - SEE TRAFFIC SIGNAL PLANS (SHEETS 505 TO 566) FOR COMBINATION POLE AND MAST ARM DETAILS

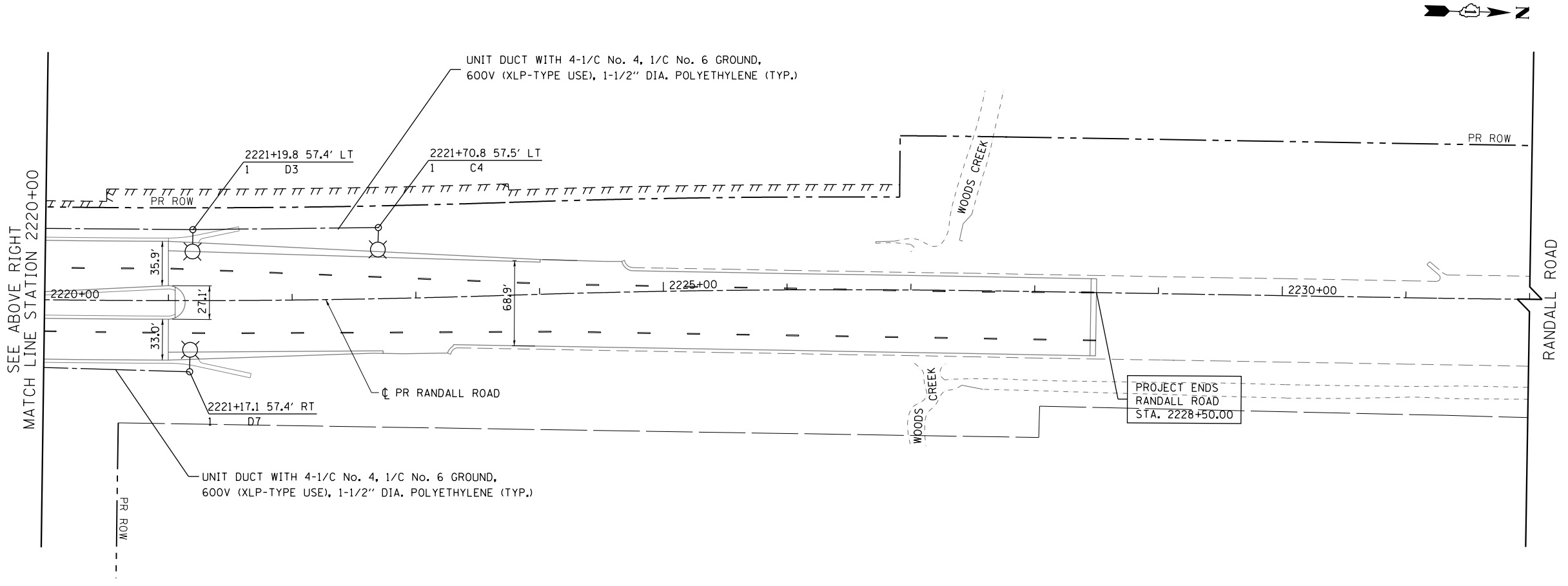
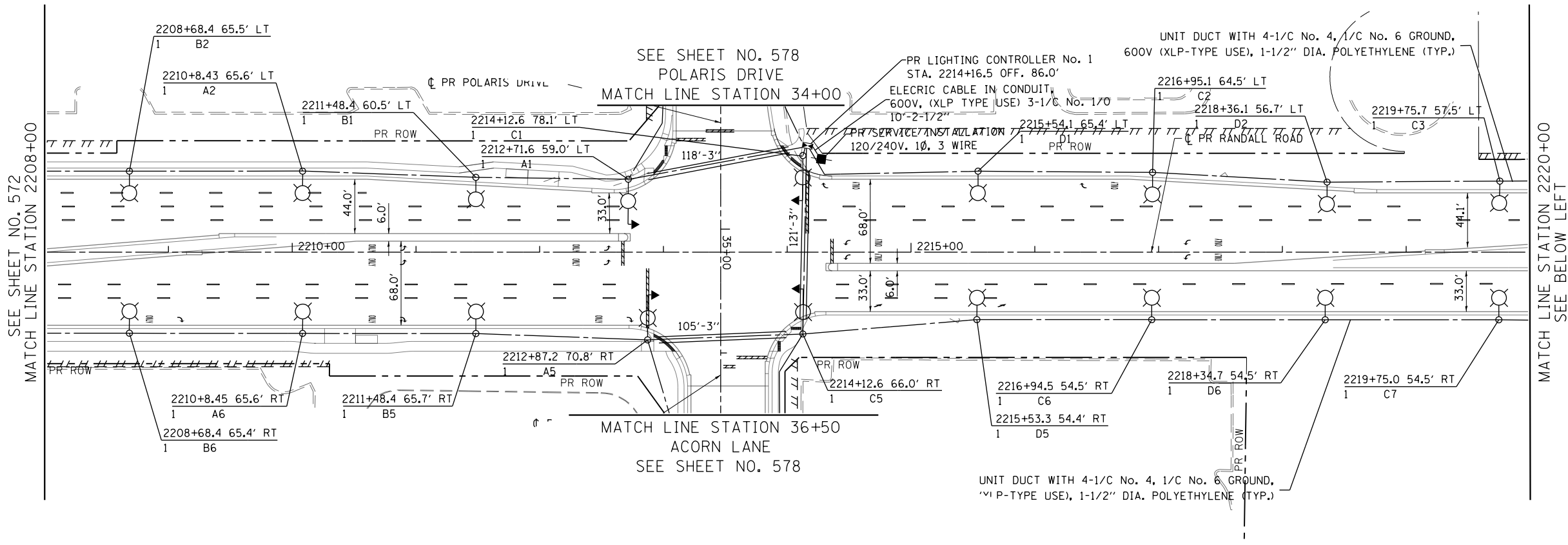
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

RANDALL ROAD PROPOSED LIGHTING PLAN

SCALE: 1" = 50' SHEET 3 OF 11 SHEETS STA 2184+00 TO STA 2208+00

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-01-PW	MCHENRY	1751	572
			CONTRACT NO. 61E53	
ILLINOIS FED. AID PROJECT				



- NOTES:**
1. SEE SHEET NO. 569 FOR LEGEND AND GENERAL NOTES
 2. SEE TRAFFIC SIGNAL PLANS (SHEETS 505 TO 566) FOR COMBINATION POLE AND MAST ARM DETAILS



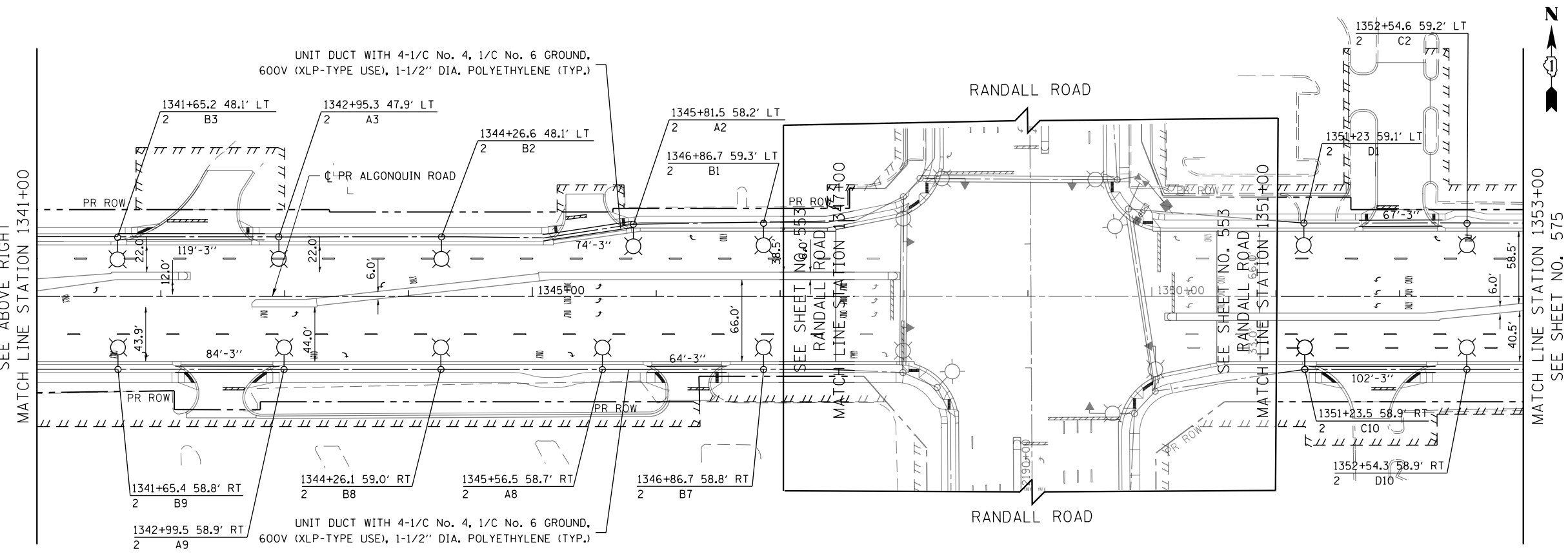
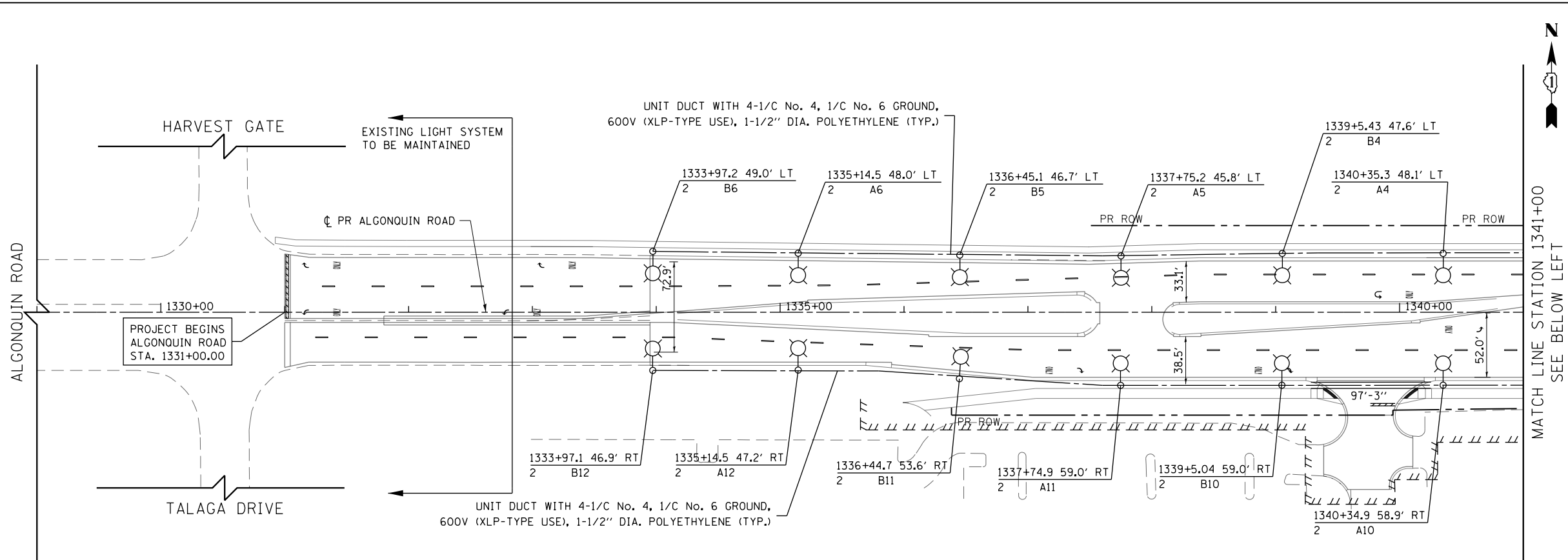
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PLOT DATE = 4/25/2018	DATE - 4-26-2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

RANDALL ROAD PROPOSED LIGHTING PLAN

SCALE: 1" = 50' SHEET 4 OF 11 SHEETS STA 2208+00 TO STA 2232+00

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-01-PW	MCHENRY	1751	573
CONTRACT NO.			61E53	
ILLINOIS FED. AID PROJECT				



- NOTES:**
- SEE SHEET NO. 569 FOR LEGEND AND GENERAL NOTES
 - SEE TRAFFIC SIGNAL PLANS (SHEETS 505 TO 566) FOR COMBINATION POLE AND MAST ARM DETAILS

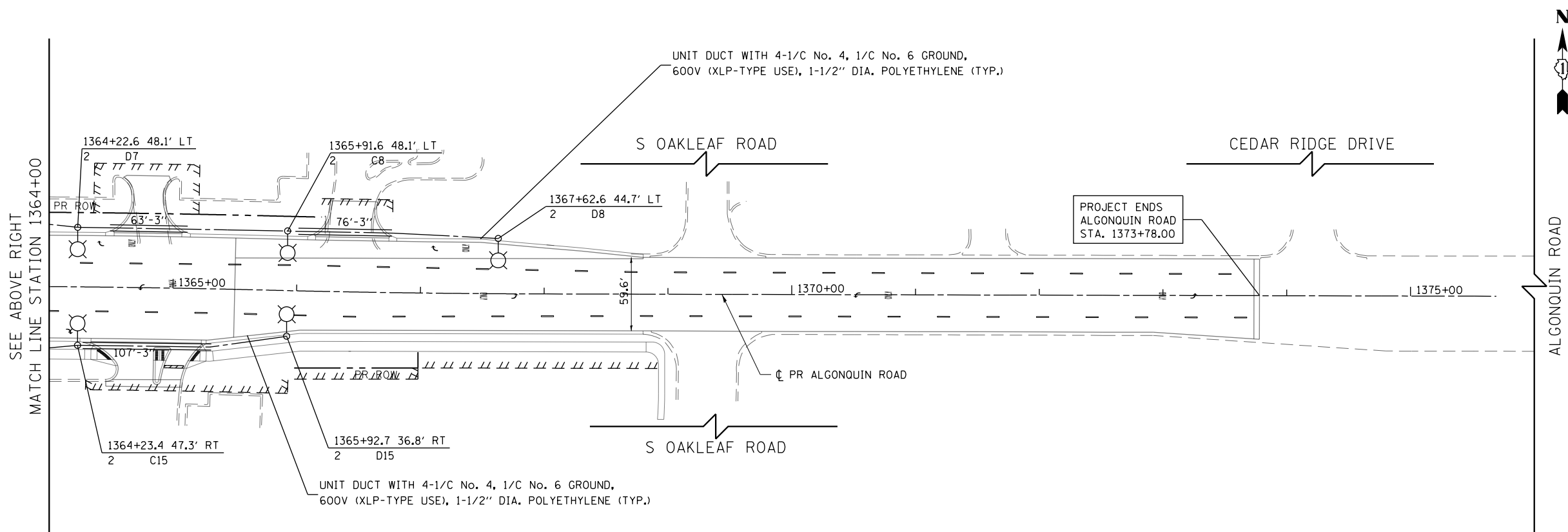
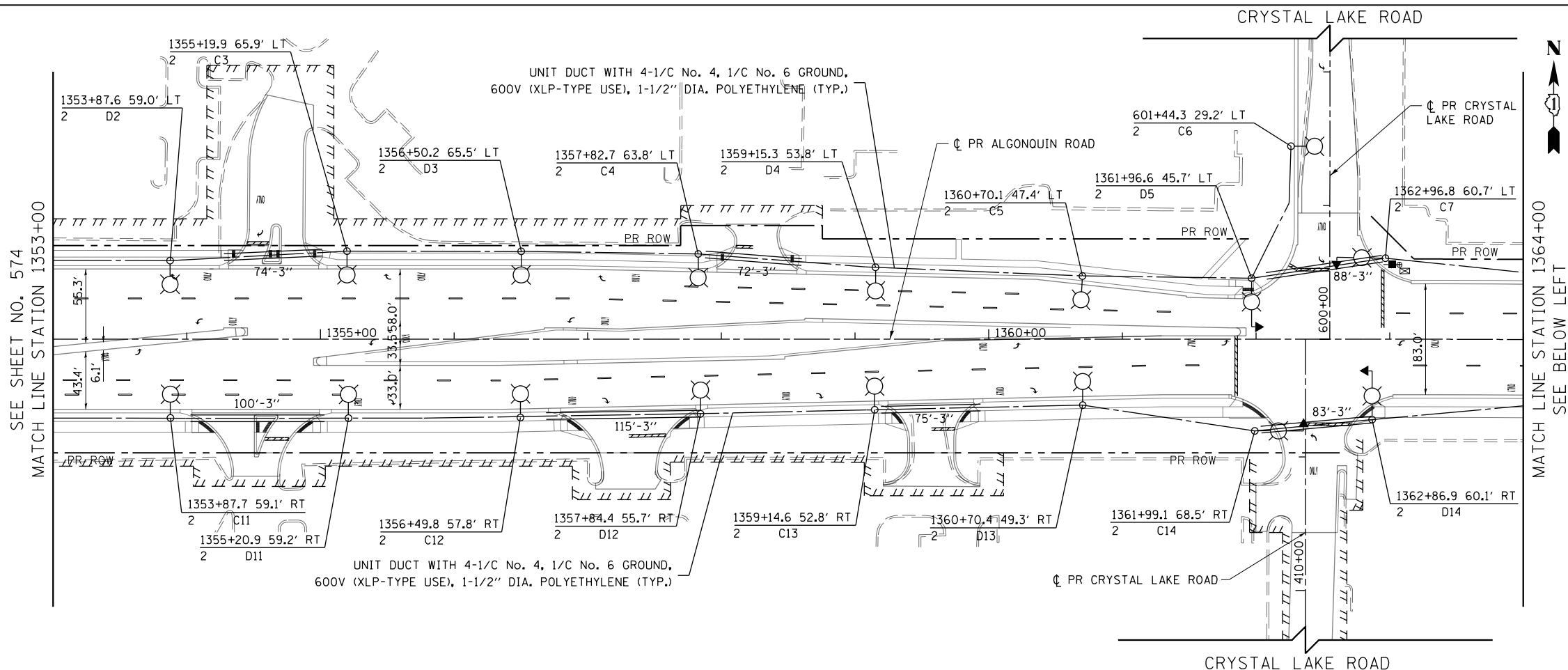
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PLOT DATE = 4/25/2018	DATE - 4-26-2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ALGONQUIN ROAD PROPOSED LIGHTING PLAN

SCALE: 1" = 50' SHEET 5 OF 11 SHEETS STA 1329+00 TO STA 1353+00

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-01-PW	MCHENRY	1751	574
CONTRACT NO.			61E53	
ILLINOIS FED. AID PROJECT				



- NOTES:**
- SEE SHEET NO. 569 FOR LEGEND AND GENERAL NOTES
 - SEE TRAFFIC SIGNAL PLANS (SHEETS 505 TO 566) FOR COMBINATION POLE AND MAST ARM DETAILS

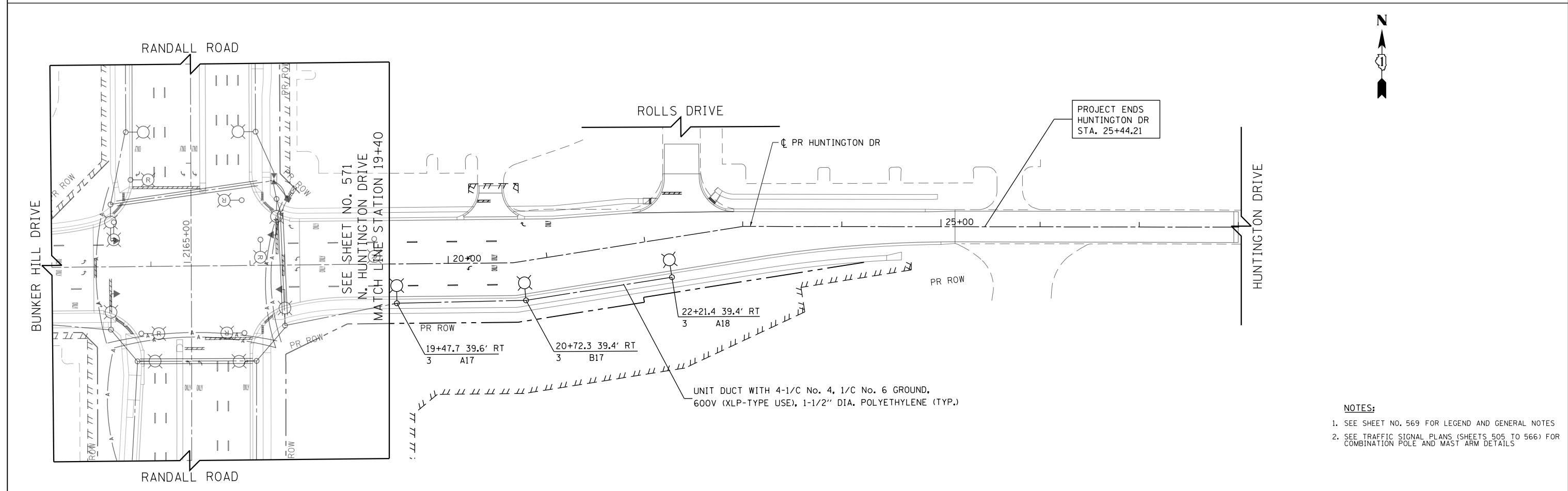
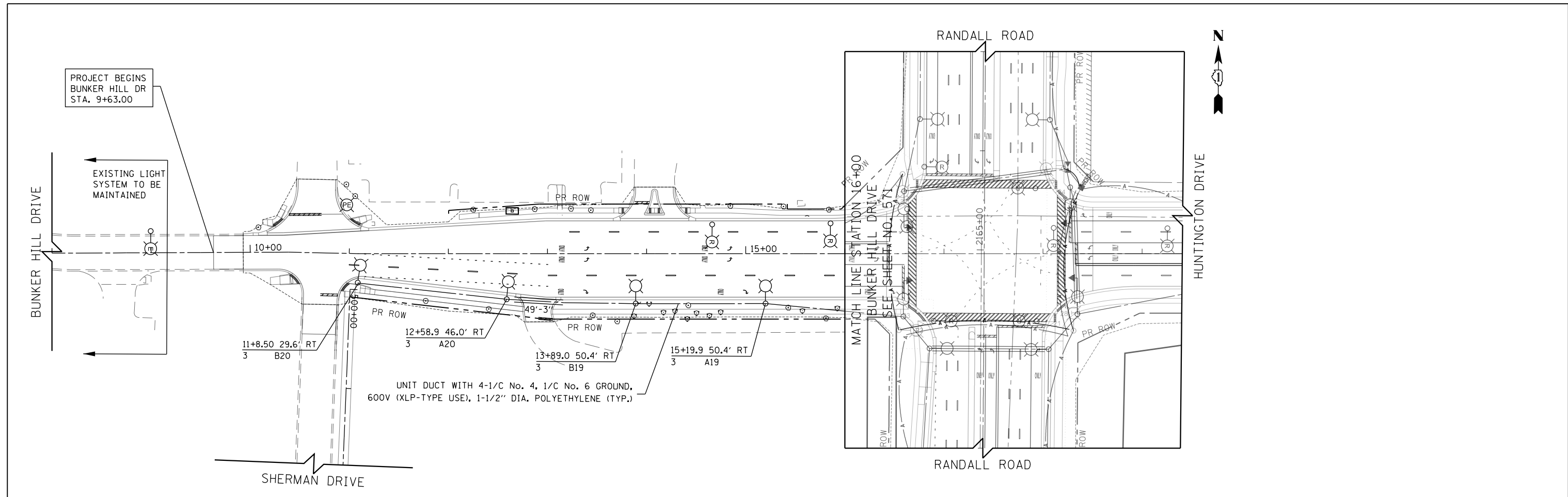
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PLOT DATE = 4/25/2018	DATE - 4-26-2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ALGONQUIN ROAD PROPOSED LIGHTING PLAN

SCALE: 1" = 50' SHEET 6 OF 11 SHEETS STA 1353+00 TO STA 1376+00

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-01-PW	MCHENRY	1751	575
CONTRACT NO.			61E53	
ILLINOIS FED. AID PROJECT				



- NOTES:**
1. SEE SHEET NO. 569 FOR LEGEND AND GENERAL NOTES
 2. SEE TRAFFIC SIGNAL PLANS (SHEETS 505 TO 566) FOR COMBINATION POLE AND MAST ARM DETAILS

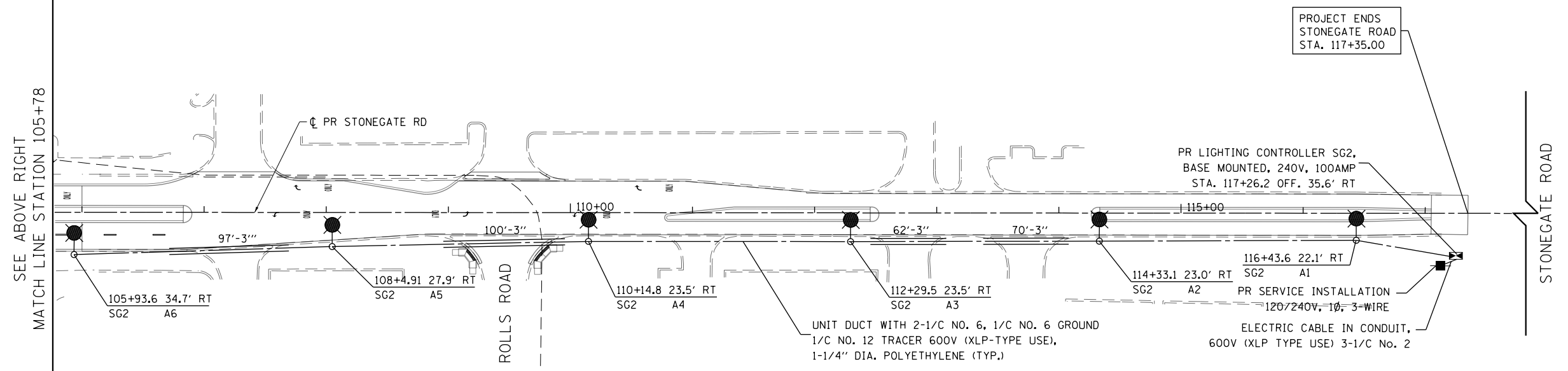
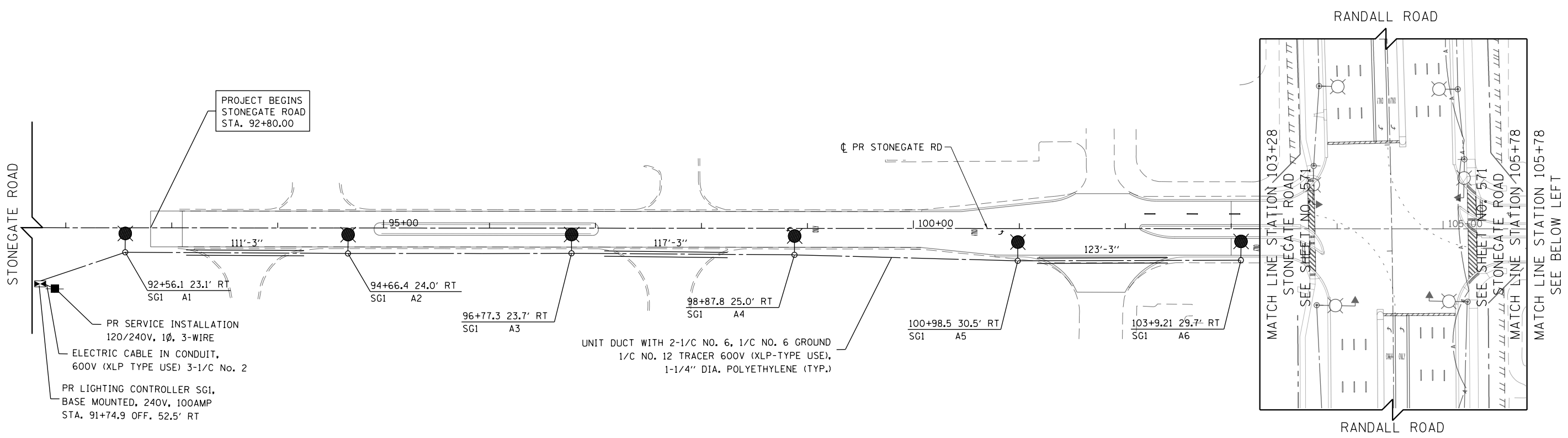
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

BUNKER HILL DRIVE /HUNTINGTON DRIVE PROPOSED LIGHTING PLAN

SCALE: 1" = 50' SHEET 7 OF 11 SHEETS STA 8+00 TO STA 29+00

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-01-PW	MCHENRY	1751	576
			CONTRACT NO. 61E53	
ILLINOIS FED. AID PROJECT				



NOTES:
 1. SEE SHEET NO. 569 FOR LEGEND AND GENERAL NOTES



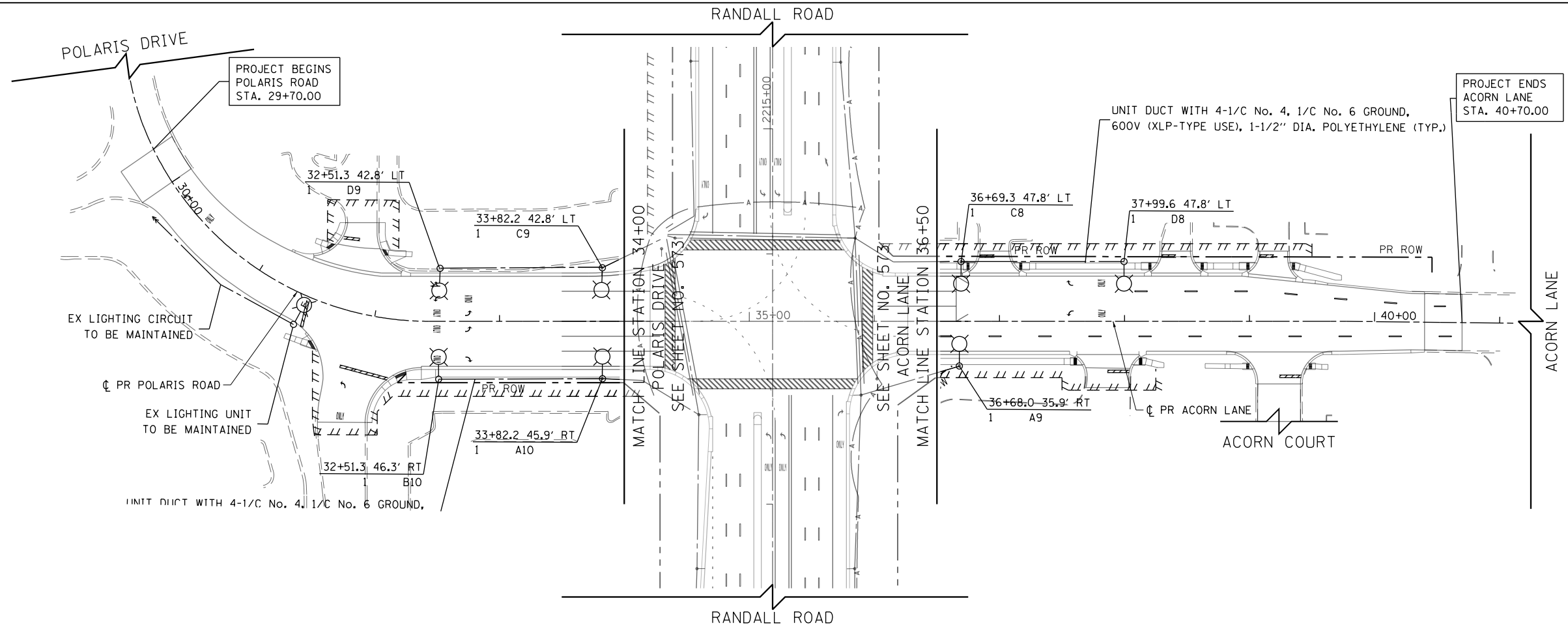
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PLOT DATE = 4/25/2018	DATE - 4-26-2018	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

STONEGATE ROAD PROPOSED LIGHTING PLAN

SCALE: 1" = 50' SHEET 8 OF 11 SHEETS STA 100+00 TO STA 109+00

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-01-PW	MCHENRY	1751	577
			CONTRACT NO. 61E53	
ILLINOIS FED. AID PROJECT				



- NOTES:**
1. SEE SHEET NO. 569 FOR LEGEND AND GENERAL NOTES
 2. SEE TRAFFIC SIGNAL PLANS (SHEETS 505 TO 566) FOR COMBINATION POLE AND MAST ARM DETAILS



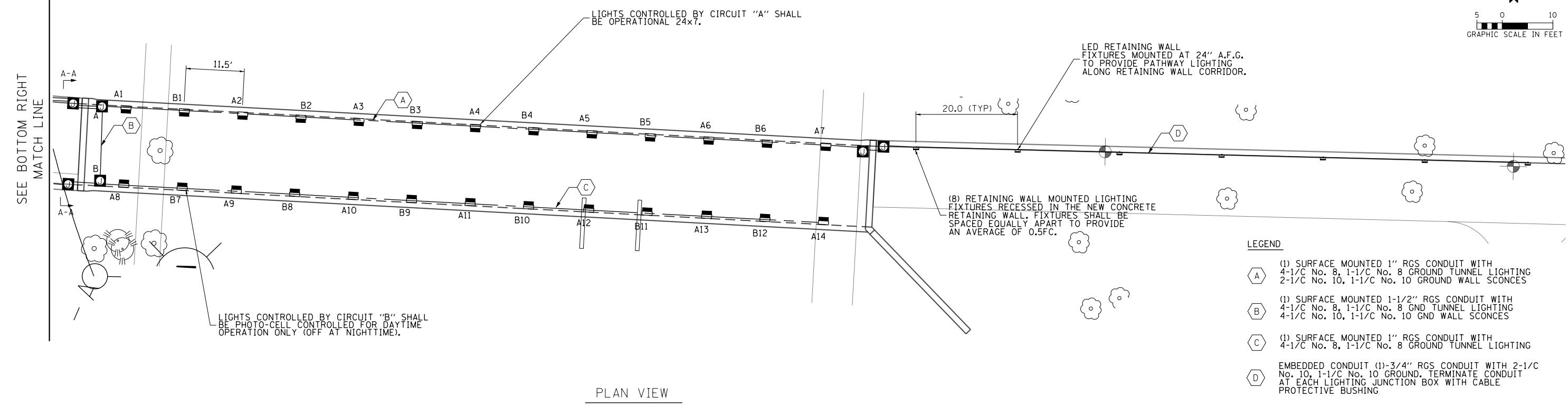
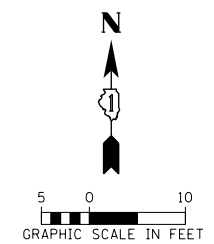
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PLOT DATE = 4/25/2018	DATE - 4-26-2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

POLARIS DRIVE /ACORN LANE PROPOSED LIGHTING PLAN

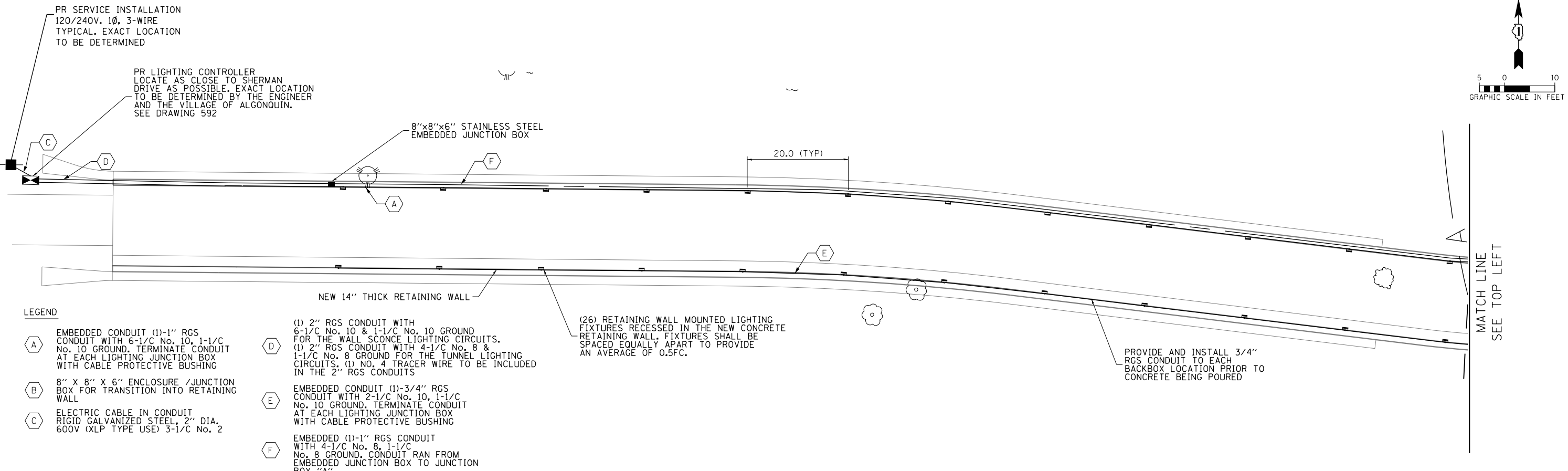
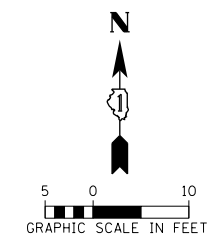
SCALE: 1" = 50' SHEET 9 OF 11 SHEETS STA 28+00 TO STA 41+00

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-01-PW	MCHENRY	1751	578
CONTRACT NO.			61E53	
ILLINOIS FED. AID PROJECT				



PLAN VIEW

- LEGEND**
- (A) (1) SURFACE MOUNTED 1" RGS CONDUIT WITH 4-1/C No. 8, 1-1/C No. 8 GROUND TUNNEL LIGHTING 2-1/C No. 10, 1-1/C No. 10 GROUND WALL SCNCES
 - (B) (1) SURFACE MOUNTED 1-1/2" RGS CONDUIT WITH 4-1/C No. 8, 1-1/C No. 8 GND TUNNEL LIGHTING 4-1/C No. 10, 1-1/C No. 10 GND WALL SCNCES
 - (C) (1) SURFACE MOUNTED 1" RGS CONDUIT WITH 4-1/C No. 8, 1-1/C No. 8 GROUND TUNNEL LIGHTING
 - (D) EMBEDDED CONDUIT (1)-3/4" RGS CONDUIT WITH 2-1/C No. 10, 1-1/C No. 10 GROUND, TERMINATE CONDUIT AT EACH LIGHTING JUNCTION BOX WITH CABLE PROTECTIVE BUSHING



- LEGEND**
- (A) EMBEDDED CONDUIT (1)-1" RGS CONDUIT WITH 6-1/C No. 10, 1-1/C No. 10 GROUND. TERMINATE CONDUIT AT EACH LIGHTING JUNCTION BOX WITH CABLE PROTECTIVE BUSHING
 - (B) 8" X 8" X 6" ENCLOSURE /JUNCTION BOX FOR TRANSITION INTO RETAINING WALL
 - (C) ELECTRIC CABLE IN CONDUIT RIGID GALVANIZED STEEL, 2" DIA. 600V (XLP TYPE USE) 3-1/C No. 2
 - (D) (1) 2" RGS CONDUIT WITH 6-1/C No. 10 & 1-1/C No. 10 GROUND FOR THE WALL SCNCE LIGHTING CIRCUITS. (1) 2" RGS CONDUIT WITH 4-1/C No. 8 & 1-1/C No. 8 GROUND FOR THE TUNNEL LIGHTING CIRCUITS. (1) NO. 4 TRACER WIRE TO BE INCLUDED IN THE 2" RGS CONDUITS
 - (E) EMBEDDED CONDUIT (1)-3/4" RGS CONDUIT WITH 2-1/C No. 10, 1-1/C No. 10 GROUND. TERMINATE CONDUIT AT EACH LIGHTING JUNCTION BOX WITH CABLE PROTECTIVE BUSHING
 - (F) EMBEDDED (1)-1" RGS CONDUIT WITH 4-1/C No. 8, 1-1/C No. 8 GROUND. CONDUIT RAN FROM EMBEDDED JUNCTION BOX TO JUNCTION BOX "A".

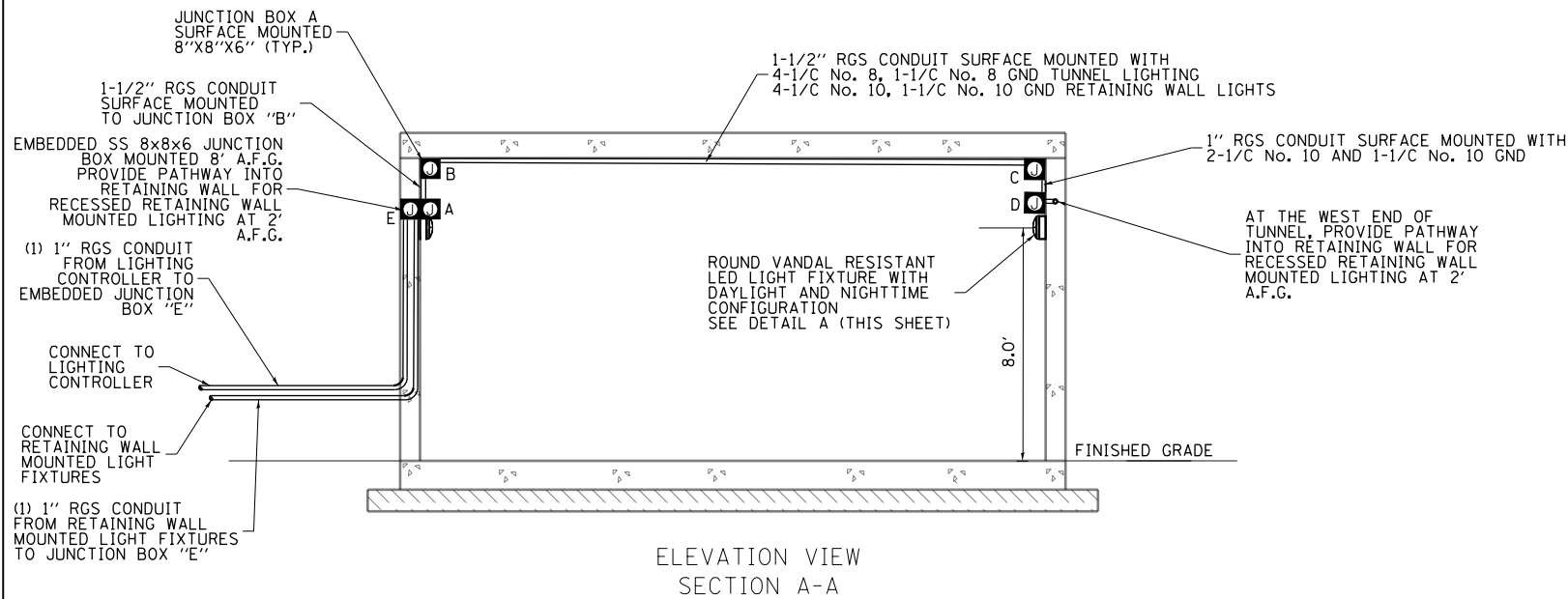


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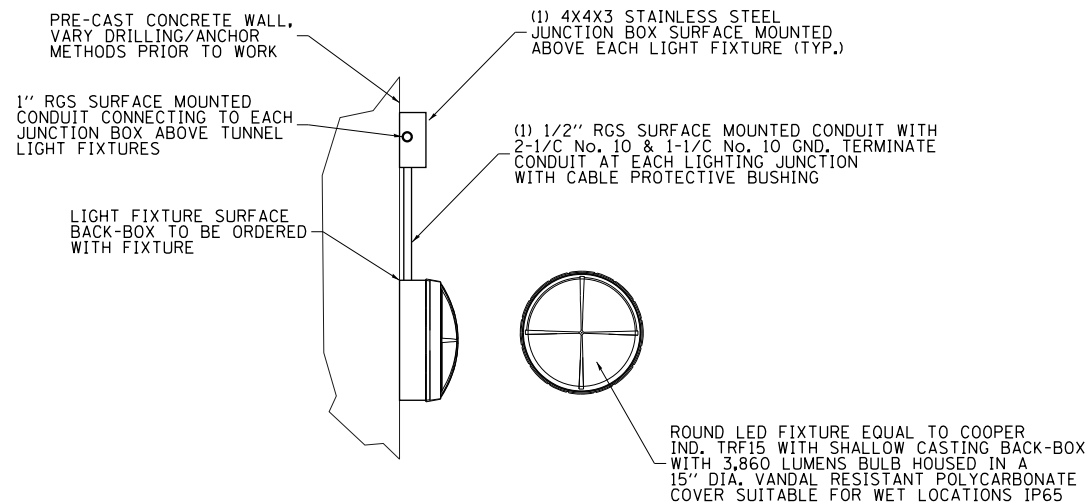
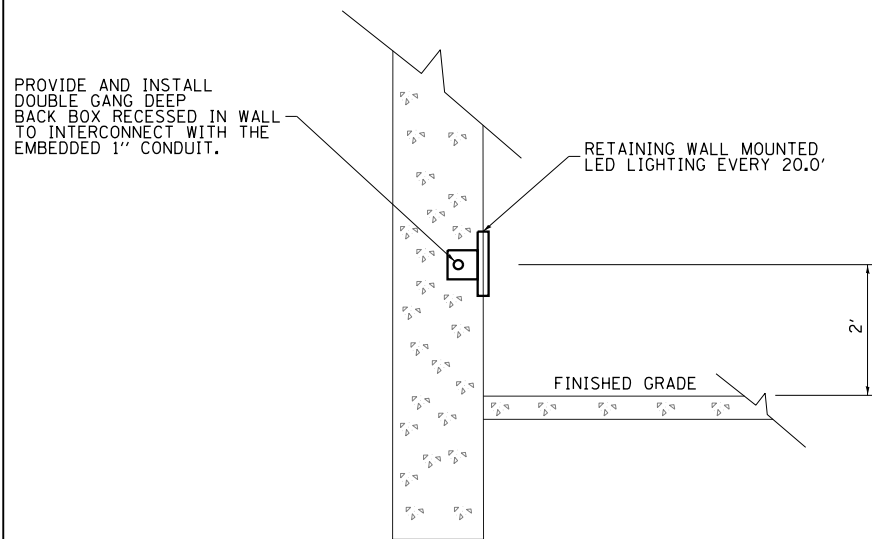
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

RANDALL ROAD PEDESTRIAN TUNNEL LIGHTING	
SCALE: NONE	SHEET 10 OF 11 SHEETS STA TO STA

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-01-PW	MCHENRY	1751	579
CONTRACT NO. 61E53			ILLINOIS FED. AID PROJECT	



PEDESTRIAN UNDERPASS - ELEVATION VIEW



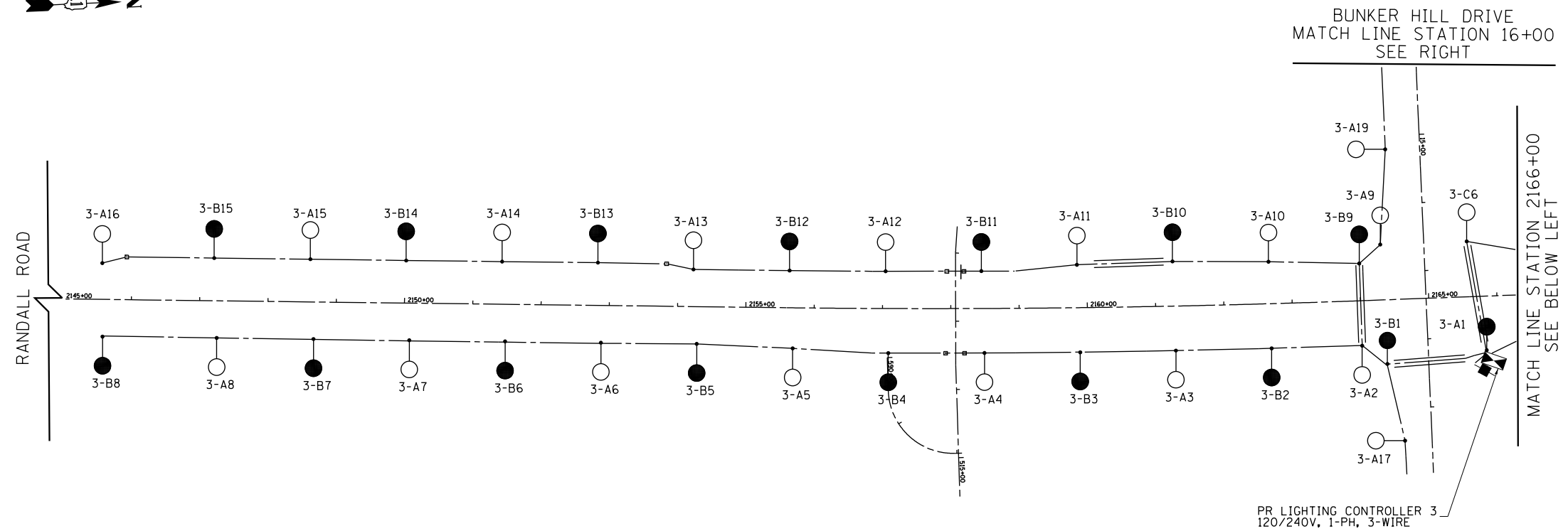
PEDESTRIAN UNDERPASS LED LIGHT FIXTURE - DETAIL A

NOTES:

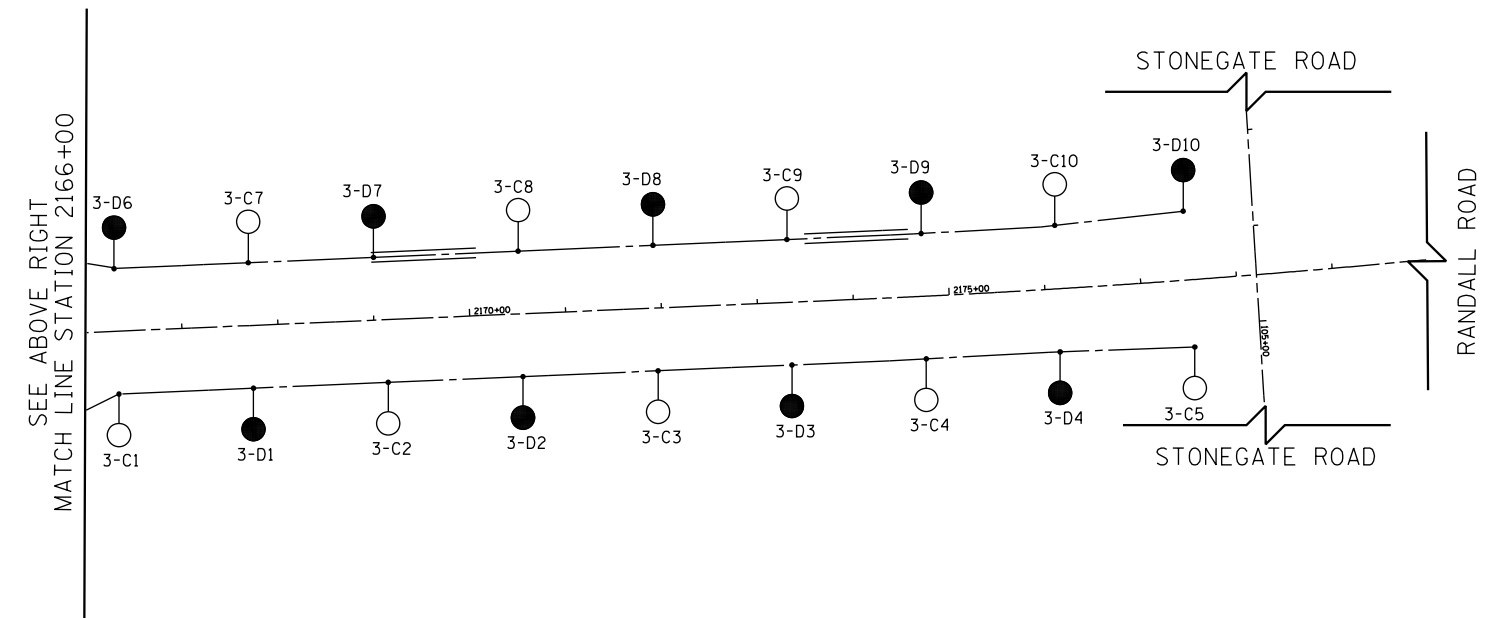
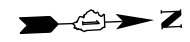
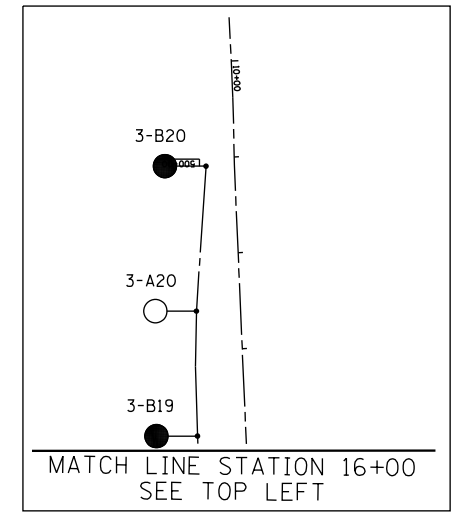
- USE STAINLESS STEEL ANCHORS AND FASTENERS TO FASTEN ALL CONDUIT AND JUNCTION BOXES TO THE TUNNEL WALL AND CEILING.



USER NAME = mrc1ss	DESIGNED - TGL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	RANDALL ROAD PEDESTRIAN TUNNEL LIGHTING			FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT DATE = 4/25/2018	DATE - 4-26-2018	REVISED -					ILLINOIS FED. AID PROJECT				
			SCALE: NONE	SHEET 10	OF 11 SHEETS	STA	TO STA				



PR LIGHTING CONTROLLER 3
120/240V, 1-PH, 3-WIRE



LOAD TABULATION		
PROPOSED LIGHTING CONTROLLER 3		
CIRCUIT	AMPS	WATTS
A	12.65	3025
B	16.10	3850
C	14.95	3575
D	12.65	3025
TOTAL	56.35	13475

LEGEND

- LED LUMINAIRE, HORIZ. MOUNT, 240V, ON RED WIRE
- LED LUMINAIRE, HORIZ. MOUNT, 240V, ON BLACK WIRE
- ◻ PROPOSED 120/240V LIGHTING CONTROLLER
- 4-1/C NO. 4 AND 1-1/C NO. 6 GND. (UNLESS OTHERWISE NOTED)



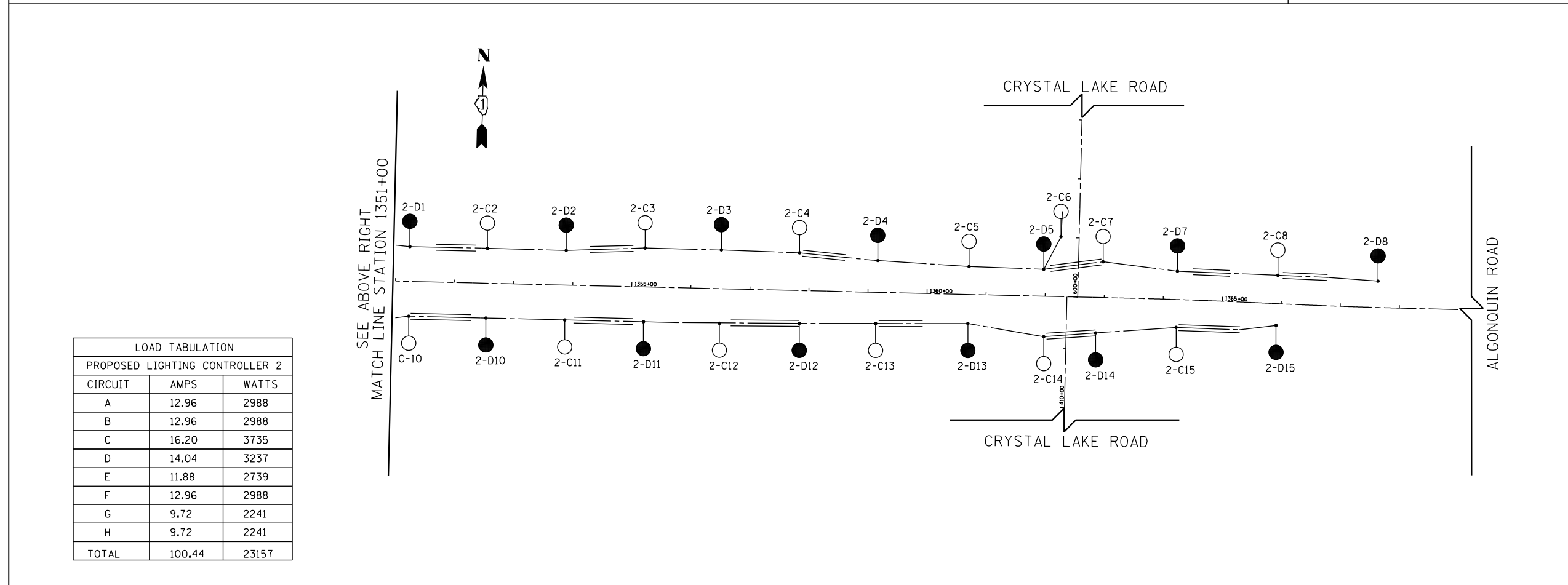
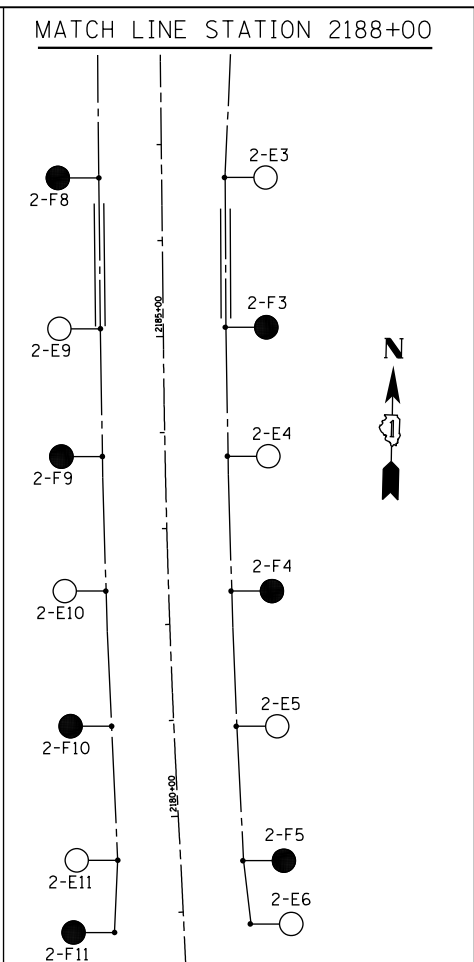
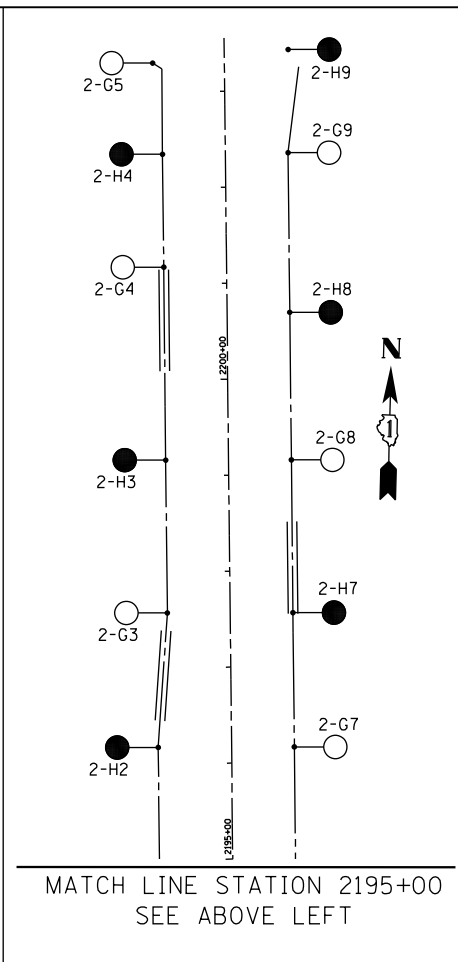
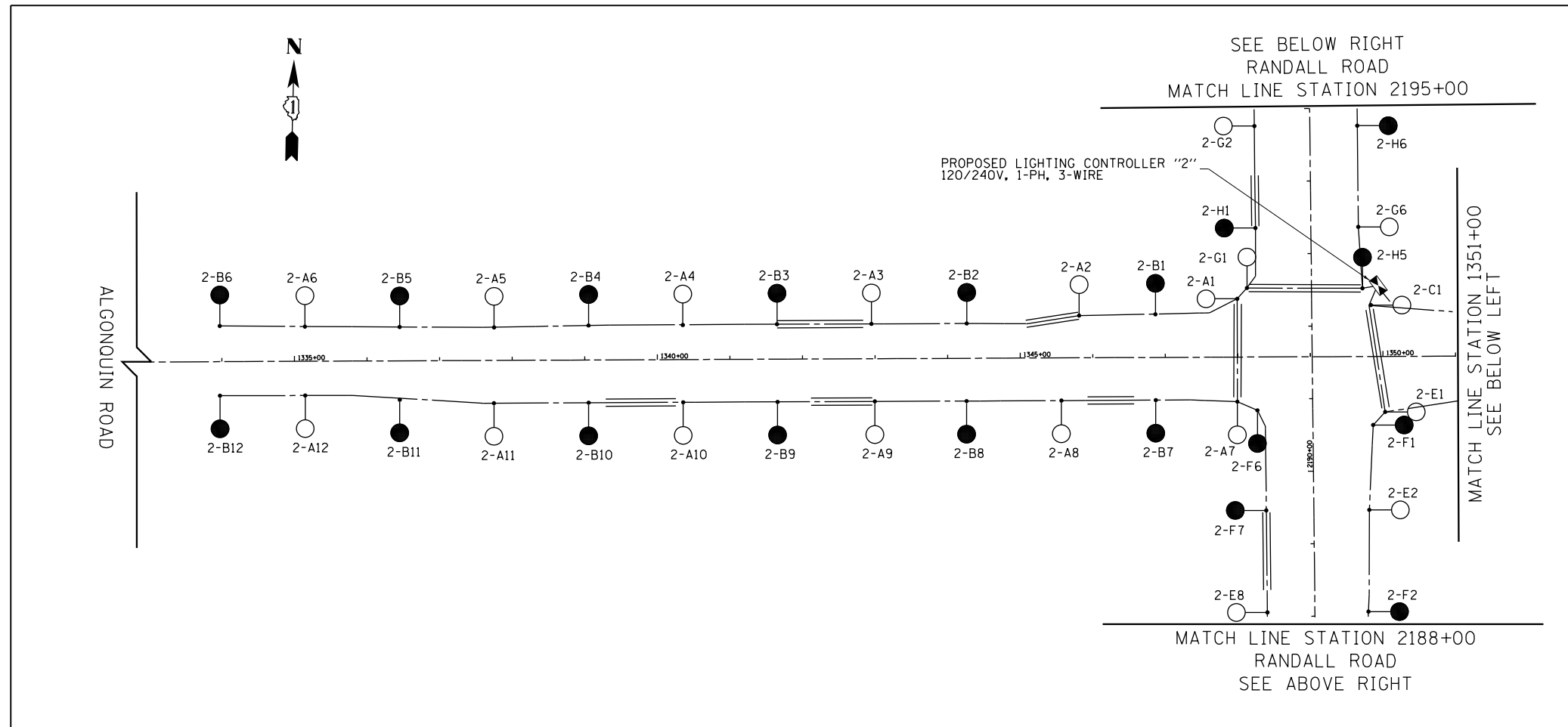
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RANDALL ROAD PROPOSED LIGHTING WIRING DIAGRAM
BUNKER HILL DRIVE CONTROLLER

SCALE: 1" = 100' SHEET 1 OF 3 SHEETS STA 2146+00 TO STA 2190+00

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-01-PW	MCHENRY	1751	581
CONTRACT NO.			61E53	
ILLINOIS FED. AID PROJECT				



LEGEND

- LED LUMINAIRE, HORIZ. MOUNT, 240V, ON RED WIRE
- LED LUMINAIRE, HORIZ. MOUNT, 240V, ON BLACK WIRE
- ⊠ PROPOSED 120/240V LIGHTING CONTROLLER
- 4-1/2 NO. 4 AND 1-1/2 NO. 6 GND, (UNLESS OTHERWISE NOTED)

LOAD TABULATION

PROPOSED LIGHTING CONTROLLER 2

CIRCUIT	AMPS	WATTS
A	12.96	2988
B	12.96	2988
C	16.20	3735
D	14.04	3237
E	11.88	2739
F	12.96	2988
G	9.72	2241
H	9.72	2241
TOTAL	100.44	23157

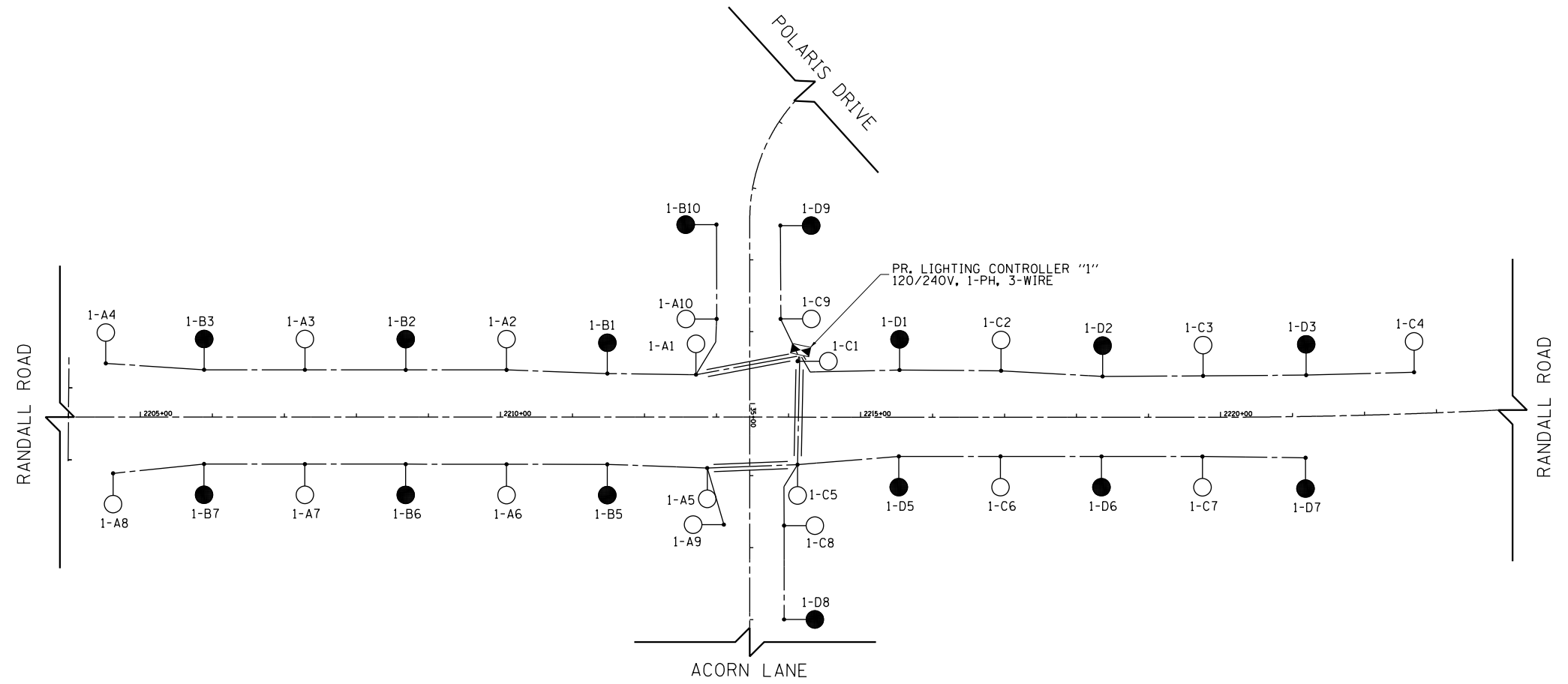
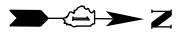
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

RANDALL ROAD PROPOSED LIGHTING WIRING DIAGRAM
ALGONQUIN LIGHTING CONTROLLER

SCALE: 1" = 100' SHEET 2 OF 3 SHEETS STA 2188+00 TO STA 2195+00

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-01-PW	MCHENRY	1751	582
CONTRACT NO.			61E53	
ILLINOIS FED. AID PROJECT				



LOAD TABULATION		
PROPOSED LIGHTING CONTROLLER 1		
CIRCUIT	AMPS	WATTS
A	11.88	2739
B	7.56	1743
C	9.72	2241
D	9.72	2241
TOTAL	38.88	8964

LEGEND	
	LED LUMINAIRE, HORIZ. MOUNT, 240V, ON RED WIRE
	LED LUMINAIRE, HORIZ. MOUNT, 240V, ON BLACK WIRE
	PROPOSED 120/240V LIGHTING CONTROLLER
	4-1/C NO. 4 AND 1-1/C NO. 6 GND, (UNLESS OTHERWISE NOTED)



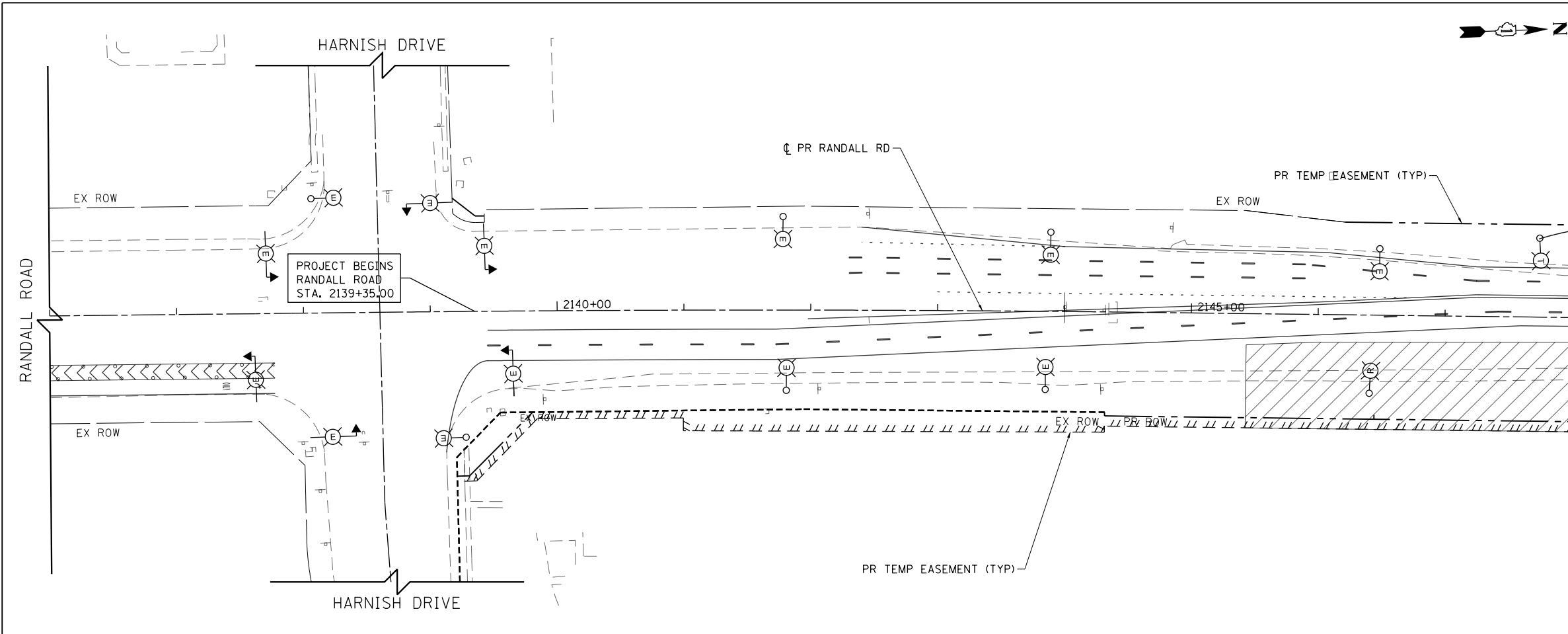
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**RANDALL ROAD PROPOSED LIGHTING WIRING DIAGRAM
POLARIS DRIVE /ACORN CONTROLLER**

SCALE: 1" = 100' SHEET 3 OF 3 SHEETS STA 2204+50 TO STA 2223+00

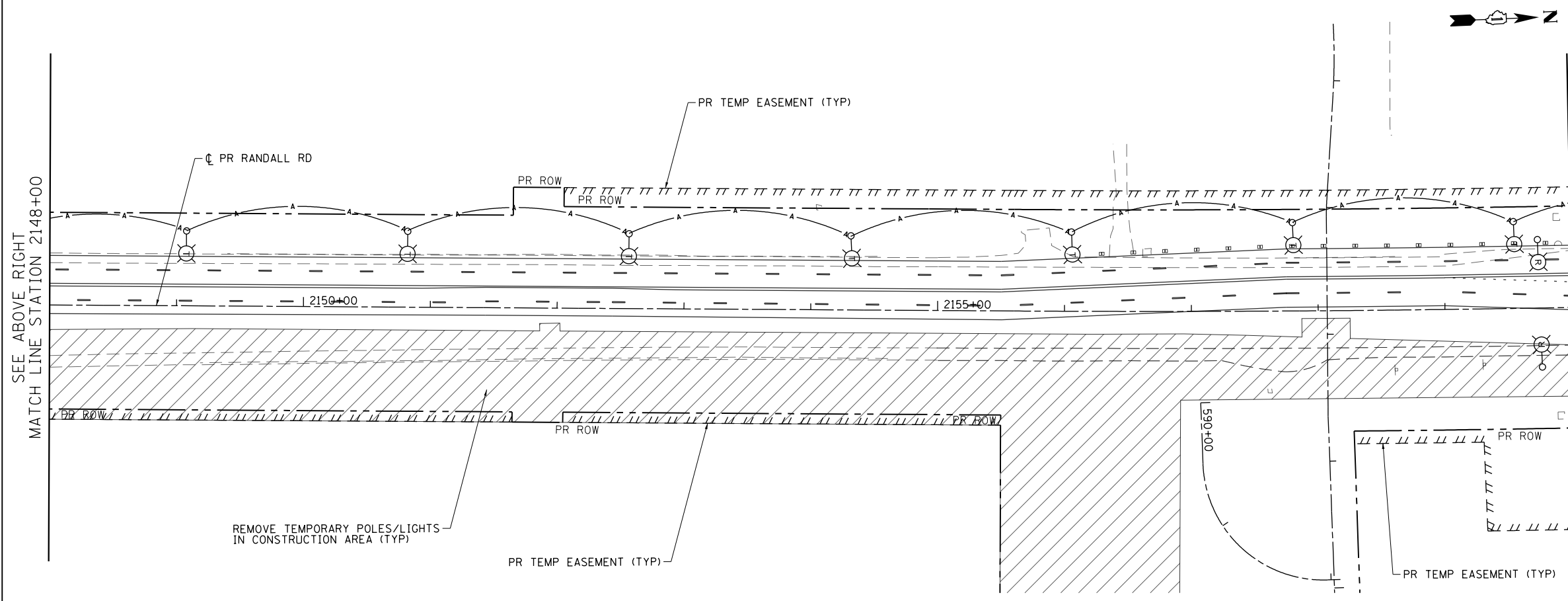
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336	06-00329-01-PW	MCHENRY	1751	583
			CONTRACT NO.	61E53
ILLINOIS FED. AID PROJECT				



MATCH LINE STATION 2148+00
SEE BELOW LEFT

PRE-STAGE TEMPORARY LIGHTING STAGING NOTES:

1. PRE-STAGE - RELOCATE EXISTING LIGHTING CONTROLLER LOCATED AT BUNKER HILL AND RANDALL ROAD INTERSECTION TO A TEMPORARY WOOD POLE OUTSIDE OF THE TEMPORARY TRAFFIC PATTERN AS SHOWN ON THE PRE-STAGE TEMPORARY LIGHTING DRAWINGS. PROVIDE TEMPORARY MAST ARM AND FIXTURES AT INTERSECTIONS AS SHOWN ON THE PLANS.
2. PRE-STAGE - PROVIDE AND INSTALL TEMPORARY LIGHTING ALONG WEST SIDE OF RANDALL ROAD, SOUTH OF BUNKER HILL TO HARNISH DRIVE AS SHOWN. UTILIZE TEMPORARY LIGHT CONTROLLER FOR TEMPORARY POWER SOURCE. RUN DEDICATED CIRCUIT FROM THE TEMPORARY LIGHTING CONTROLLER TO THE TEMPORARY LIGHTING INSTALLED ALONG THE WEST SIDE OF RANDALL ROAD, SOUTH OF BUNKER HILL TO HARNISH DRIVE.
3. PRE-STAGE - ONCE TEMPORARY LIGHTING IS INSTALLED AND OPERATIONAL, REMOVE THE TWO EXISTING LIGHTING POLES AND FIXTURES AS DEPICTED ON THE PRE-STAGE TEMPORARY LIGHTING PLANS.



SEE ABOVE RIGHT
MATCH LINE STATION 2148+00

MATCH LINE STATION 2160+00
SEE SHEET NO. 585

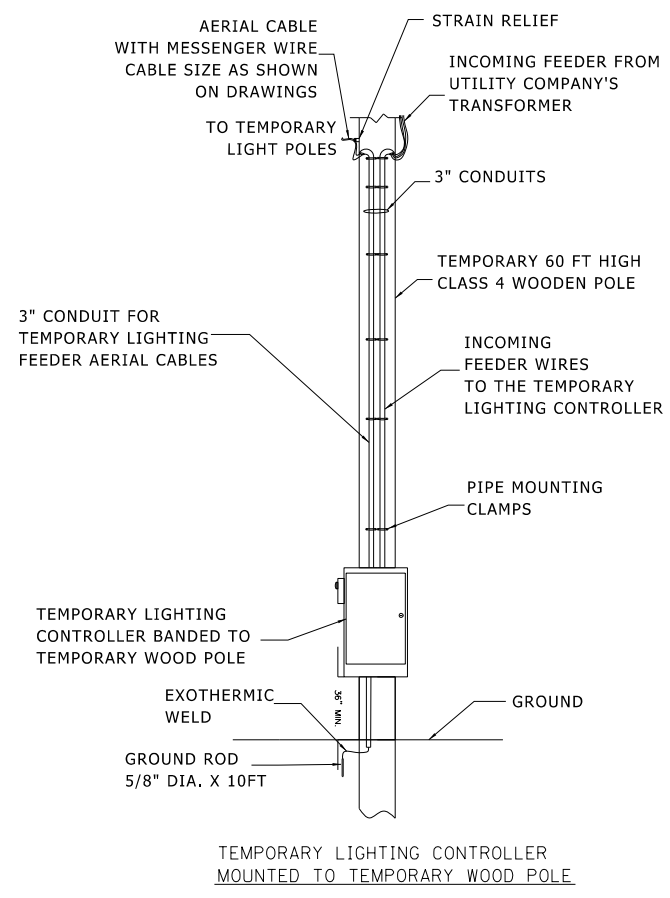
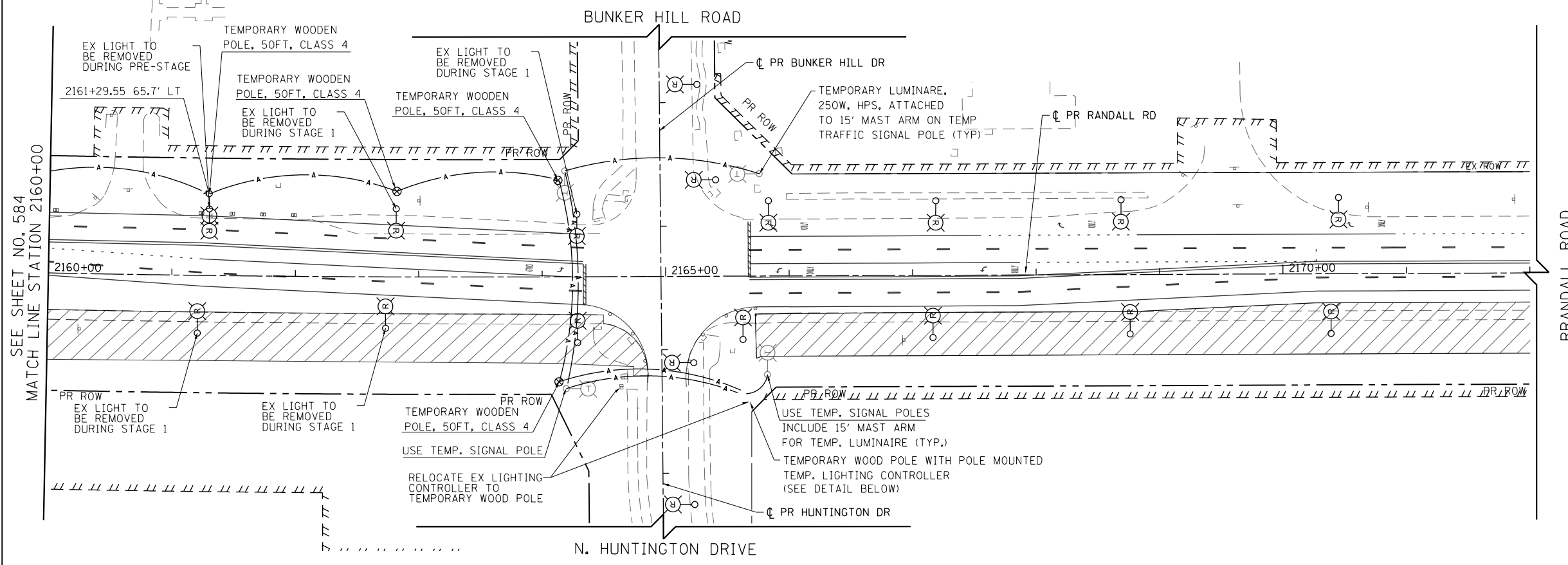
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**RANDALL ROAD EXISTING LIGHTING REMOVAL & TEMPORARY LIGHTING
PRE-STAGE**

SCALE: 1" = 50' SHEET 1 OF 2 SHEETS STA 2144+06.63 TO STA 2160+00

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-01-PW	MCHENRY	1751	584
			CONTRACT NO. 61E53	
ILLINOIS FED. AID PROJECT				



- NOTES:**
- SEE SHEET NO. 569 FOR LEGEND AND GENERAL NOTES
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL ROADWAY LIGHTING WITHIN THE PROJECT LIMITS FOR THE DURATION OF THE PROJECT. ANY DAMAGE INCURRED DURING CONSTRUCTION SHALL BE PROMPTLY REPAIRED SO SERVICE IS NOT DISRUPTED. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE EXISTING CONDITIONS.
 - THE LOCATION OF THE TEMPORARY WOOD POLES SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION
 - TEMPORARY LIGHTING UNITS SHALL BE OPERATIONAL BEFORE EXISTING POLES ARE REMOVED
 - TEMPORARY LIGHTING SHALL NOT BE REMOVED UNTIL THE NEXT STAGE OF TEMPORARY LIGHTING OR PERMANENT LIGHTING IS INSTALLED AND OPERATIONAL.
 - THE COST TO PROVIDE TEMPORARY CONNECTIONS TO EXISTING CONTROLLERS AND TEMPORARY LIGHTING UNITS SHALL BE INCLUDED IN THE BID UNIT PRICE FOR AERIAL CABLE. DETAILS SEE SHEETS NO. 597, 598 AND 599.
 - FOR TEMPORARY LIGHT POLE AND INSTALLATION OF AERIAL CABLE DETAILS SEE SHEETS NO. 597, 598 AND 599.
 - EXISTING LIGHTING CONTROLLER TO BE USED FOR TEMPORARY LIGHTING. USE EXISTING SERVICE CONNECTIONS. EXISTING CONTROLLER USED FOR TEMPORARY SERVICE TO BE REMOVED ONCE THE NEW CONTROLLER IS INSTALLED AND OPERATIONAL.



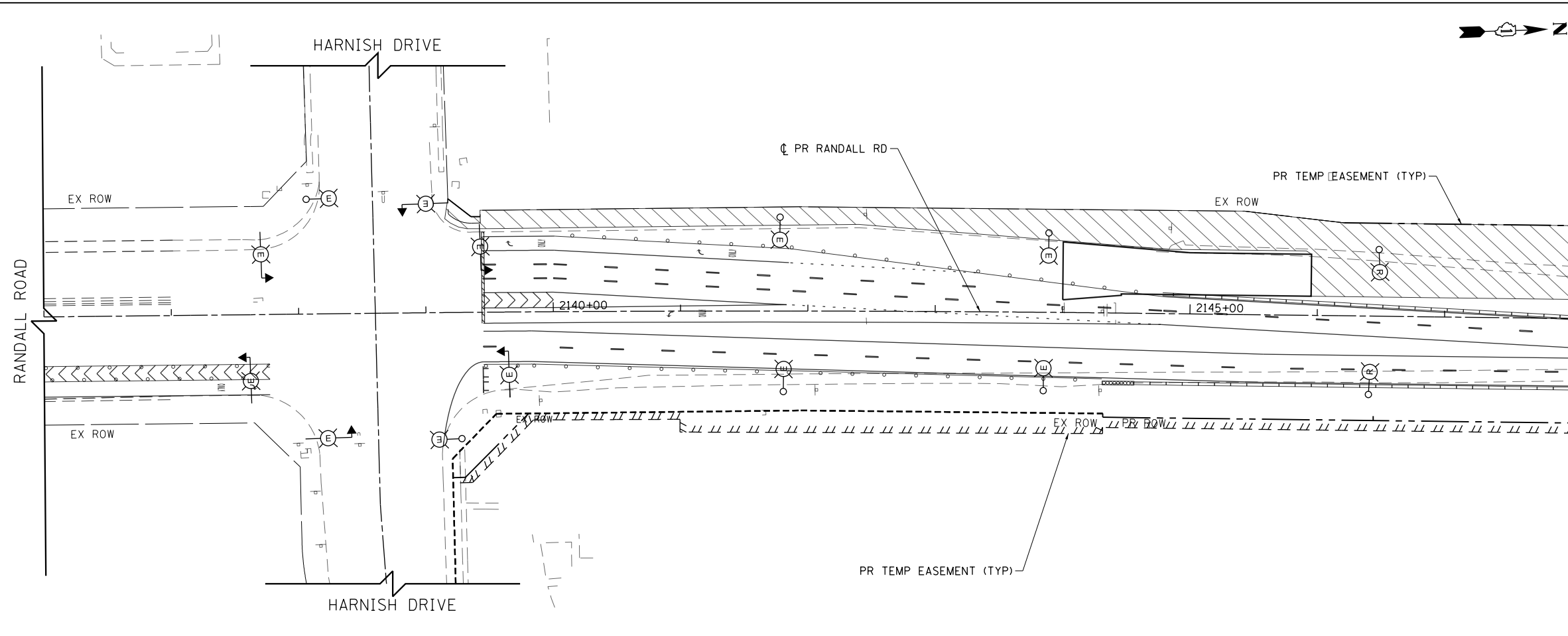
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**RANDALL ROAD EXISTING LIGHTING REMOVAL & TEMPORARY LIGHTING
PRE-STAGE**

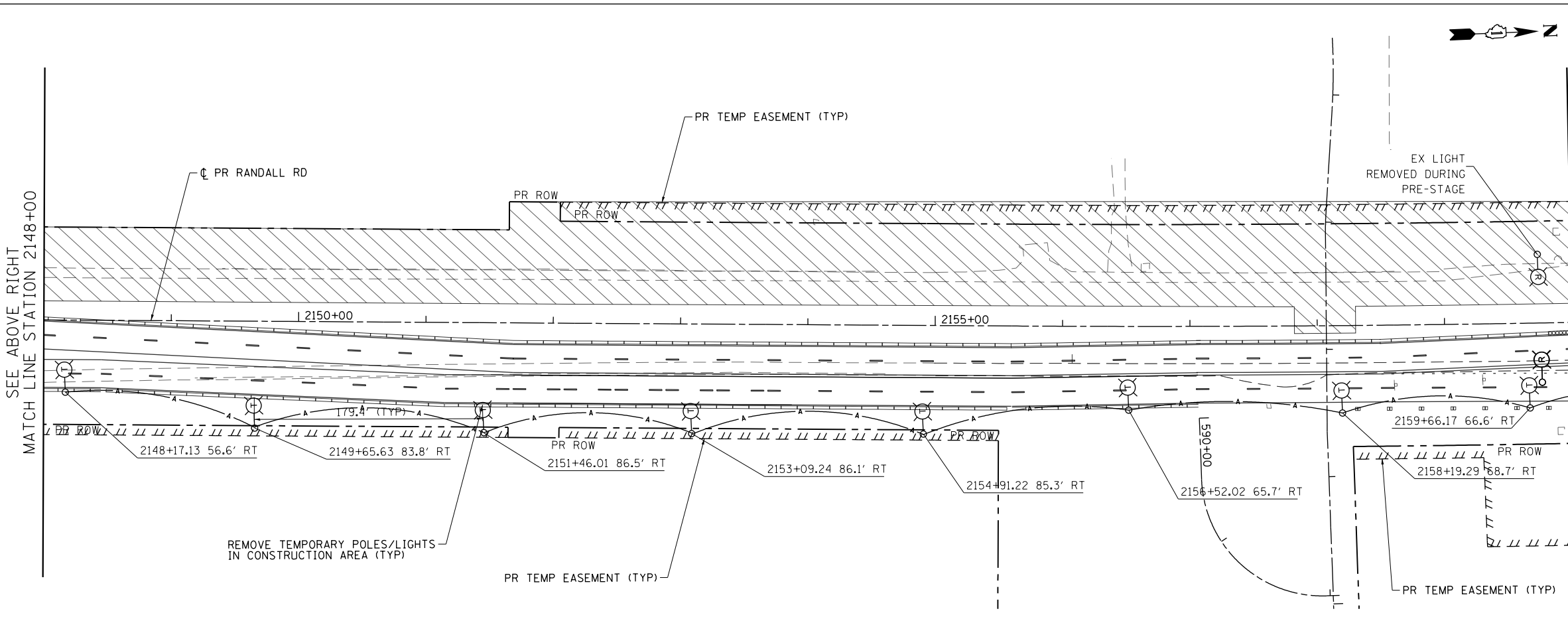
SCALE: 1" = 50' SHEET 2 OF 2 SHEETS STA 2160+00 TO STA 2184+00

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-01-PW	MCHENRY	1751	585
			CONTRACT NO.	61E53
ILLINOIS FED. AID PROJECT				



MATCH LINE STATION 2148+00
SEE BELOW LEFT

- TEMPORARY LIGHTING STAGING NOTES:**
- STAGE 1 - PROVIDE AND INSTALL TEMPORARY LIGHTING ALONG EAST SIDE OF RANDALL ROAD AND NORTH SIDE OF ALGONQUIN AS SHOWN. UTILIZE EXISTING LIGHT CONTROLLERS FOR TEMPORARY POWER SOURCE.
 - STAGE 1 - ONCE STAGE 1 TEMPORARY LIGHTING IS INSTALLED, DENERGIZE THE PRE-STAGE TEMPORARY LIGHTING ALONG THE WEST SIDE OF RANDALL ROAD FROM BUNKER HILL SOUTH TO HARNISH DRIVE (KEEP THE BUNKER HILL INTERSECTION LIGHTING ENERGIZED, ENERGIZE THE STAGE 1 LIGHTING, AND REMOVE EXISTING LIGHTING POLES AND FIXTURES AS SHOWN ON THE PLANS.
 - STAGE 1 - PROVIDE AND INSTALL NEW LIGHT POLES, FIXTURES AND WIRES ALONG WEST SIDE OF RANDALL ROAD AND SOUTH SIDE OF ALGONQUIN. PROVIDE AND INSTALL NEW LIGHT CONTROLLERS AS SHOWN IN PLANS IN THE CONSTRUCTION AREAS OF STAGE 1 AND ENERGIZE SYSTEM.
 - STAGE 2 - REMOVE TEMPORARY LIGHTING INSTALLED DURING STAGE 1 WHEN STAGE 2 CONSTRUCTION AREA IS ESTABLISHED. MAINTAIN TEMPORARY AERIAL CONNECTIONS AND TEMPORARY LIGHTING CONTROLLERS TO NEW LIGHT POLES THAT REMAIN.
 - STAGE 2 - NEW LIGHT POLES AND CONTROLLER TO BE ENERGIZED TO PROVIDE LIGHTING FOR STAGE 2 TRAFFIC
 - STAGE 2 - PROVIDE AND INSTALL NEW LIGHT POLES, FIXTURES, WIRING ALONG EAST SIDE OF RANDALL ROAD AND NORTH SIDE OF ALGONQUIN. PROVIDE AND INSTALL NEW LIGHT CONTROLLERS IN AREAS HATCHED FOR STAGE 2 CONSTRUCTION.
 - STAGE 3 - REMOVE MISCELLANEOUS TEMPORARY WOOD POLES, AERIAL CABLE, AND CONTROLLERS AND COMPLETE PERMANENT WIRING CONNECTIONS.



SEE ABOVE RIGHT
MATCH LINE STATION 2148+00

MATCH LINE STATION 2160+00
SEE SHEET NO. 587

- NOTES:**
- SEE SHEET NO. 569 FOR LEGEND AND GENERAL NOTES
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL ROADWAY LIGHTING WITHIN THE PROJECT LIMITS FOR THE DURATION OF THE PROJECT. ANY DAMAGE INCURRED DURING CONSTRUCTION SHALL BE PROMPTLY REPAIRED SO SERVICE IS NOT DISRUPTED. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE EXISTING CONDITIONS.
 - THE LOCATION OF THE TEMPORARY WOOD POLES SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION
 - TEMPORARY LIGHTING UNITS SHALL BE OPERATIONAL BEFORE EXISTING POLES ARE REMOVED
 - TEMPORARY LIGHTING SHALL NOT BE REMOVED UNTIL THE NEXT STAGE OF TEMPORARY LIGHTING OR PERMANENT LIGHTING IS INSTALLED AND OPERATIONAL.
 - THE COST TO PROVIDE TEMPORARY CONNECTIONS TO EXISTING CONTROLLERS AND TEMPORARY LIGHTING UNITS SHALL BE INCLUDED IN THE BID UNIT PRICE FOR AERIAL CABLE.
 - FOR TEMPORARY LIGHT POLE AND INSTALLATION OF AERIAL CABLE DETAILS SEE SHEETS NO. 597, 598 AND 599.
 - EXISTING LIGHTING CONTROLLER TO BE USED FOR TEMPORARY LIGHTING. USE EXISTING SERVICE CONNECTIONS, EXISTING CONTROLLER USED FOR TEMPORARY SERVICE TO BE REMOVED ONCE THE NEW CONTROLLER IS INSTALLED AND OPERATIONAL.



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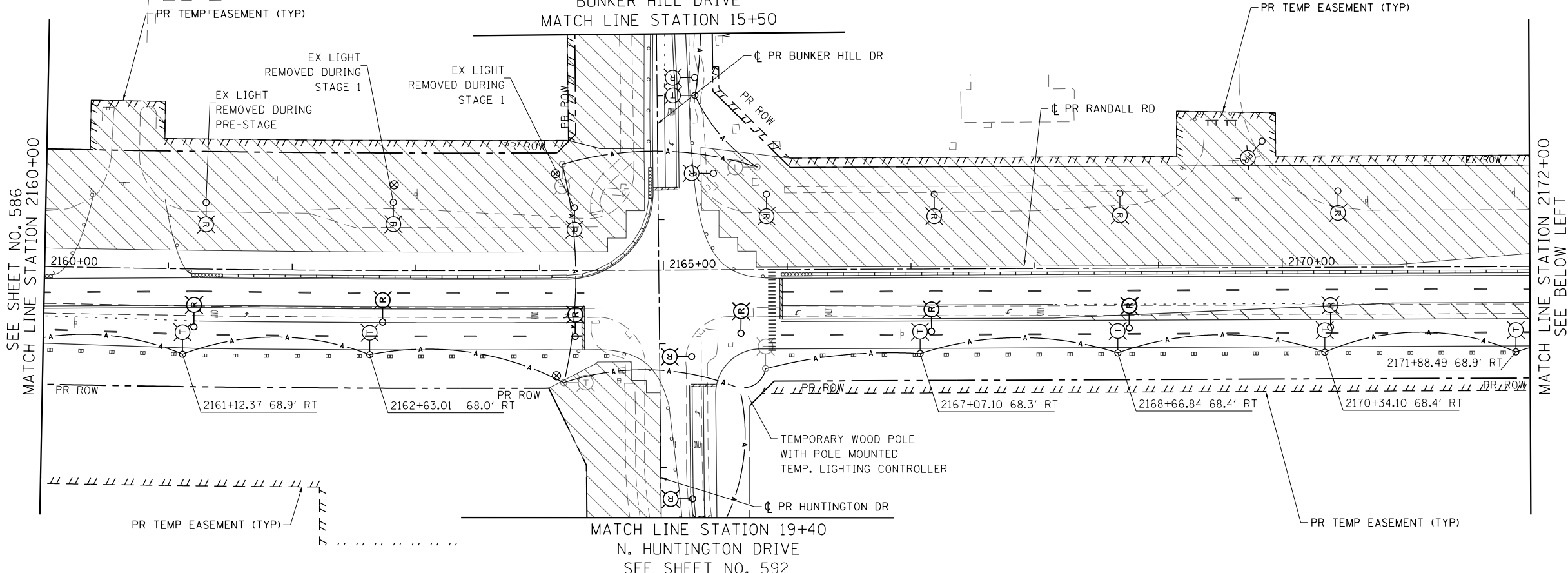
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**RANDALL ROAD EXISTING LIGHTING REMOVAL & TEMPORARY LIGHTING
STAGE 1**

SCALE: 1" = 50' SHEET 1 OF 9 SHEETS STA 2144+06.63 TO STA 2160+00

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-01-PW	MCHENRY	1751	586
				CONTRACT NO. 61E53
ILLINOIS FED. AID PROJECT				

SEE SHEET NO. 592
BUNKER HILL DRIVE
MATCH LINE STATION 15+50

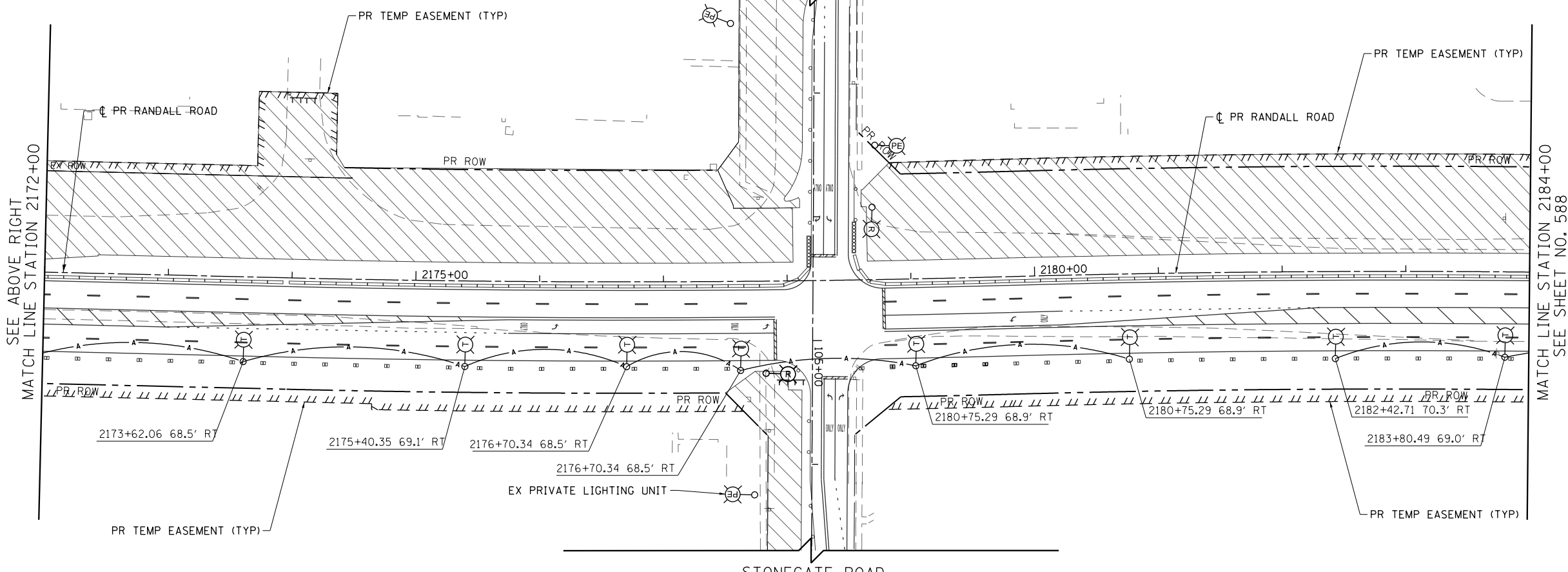


SEE SHEET NO. 586
MATCH LINE STATION 2160+00

MATCH LINE STATION 2172+00
SEE BELOW LEFT

MATCH LINE STATION 19+40
N. HUNTINGTON DRIVE
SEE SHEET NO. 592

STONEGATE ROAD



SEE ABOVE RIGHT
MATCH LINE STATION 2172+00

MATCH LINE STATION 2184+00
SEE SHEET NO. 588

- NOTES:**
- SEE SHEET NO. 569 FOR LEGEND AND GENERAL NOTES
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL ROADWAY LIGHTING WITHIN THE PROJECT LIMITS FOR THE DURATION OF THE PROJECT. ANY DAMAGE INCURRED DURING CONSTRUCTION SHALL BE PROMPTLY REPAIRED SO SERVICE IS NOT DISRUPTED. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE EXISTING CONDITIONS.
 - THE LOCATION OF THE TEMPORARY WOOD POLES SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION
 - TEMPORARY LIGHTING UNITS SHALL BE OPERATIONAL BEFORE EXISTING POLES ARE REMOVED
 - TEMPORARY LIGHTING SHALL NOT BE REMOVED UNTIL THE NEXT STAGE OF TEMPORARY LIGHTING OR PERMANENT LIGHTING IS INSTALLED AND OPERATIONAL.
 - THE COST TO PROVIDE TEMPORARY CONNECTIONS TO EXISTING CONTROLLERS AND TEMPORARY LIGHTING UNITS SHALL BE INCLUDED IN THE BID UNIT PRICE FOR AERIAL CABLE.
 - FOR TEMPORARY LIGHT POLE AND INSTALLATION OF AERIAL CABLE DETAILS SEE SHEETS NO. 597, 598 AND 599.
 - EXISTING LIGHTING CONTROLLER TO BE USED FOR TEMPORARY LIGHTING. USE EXISTING SERVICE CONNECTIONS, EXISTING CONTROLLER USED FOR TEMPORARY SERVICE TO BE REMOVED ONCE THE NEW CONTROLLER IS INSTALLED AND OPERATIONAL.



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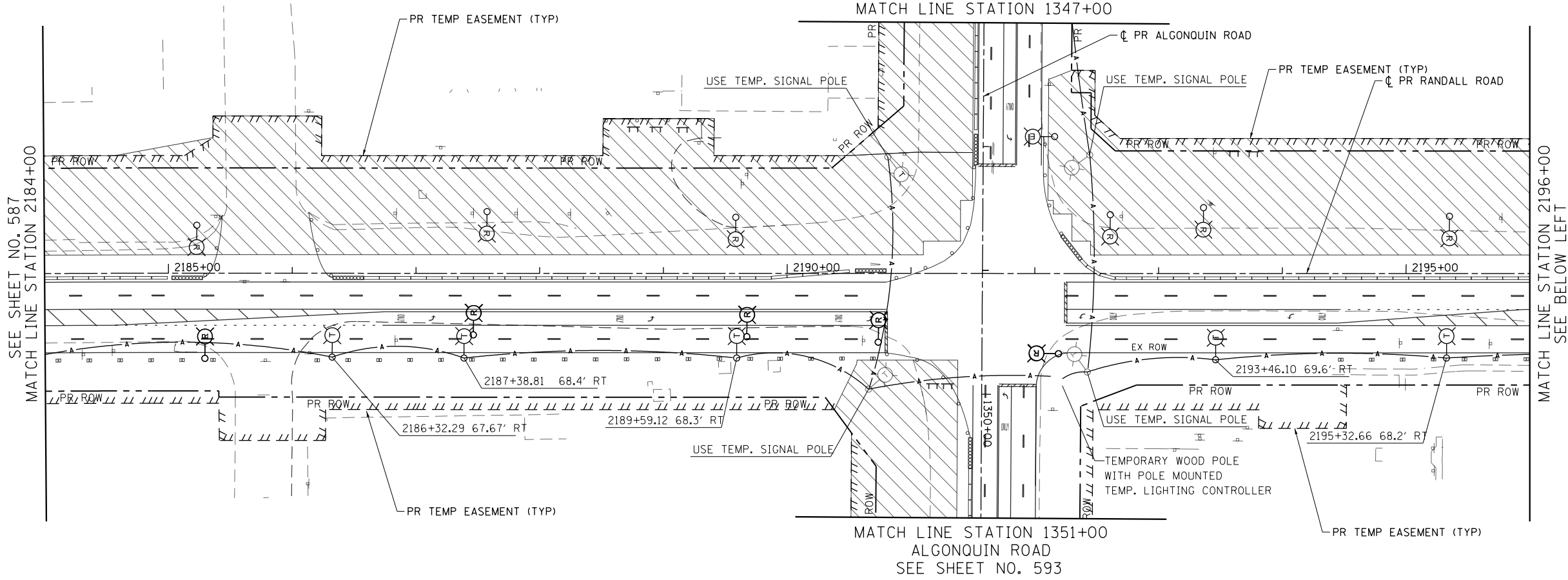
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RANDALL ROAD EXISTING LIGHTING REMOVAL & TEMPORARY LIGHTING
STAGE 1

SCALE: 1" = 50' SHEET 2 OF 9 SHEETS STA 2160+00 TO STA 2184+00

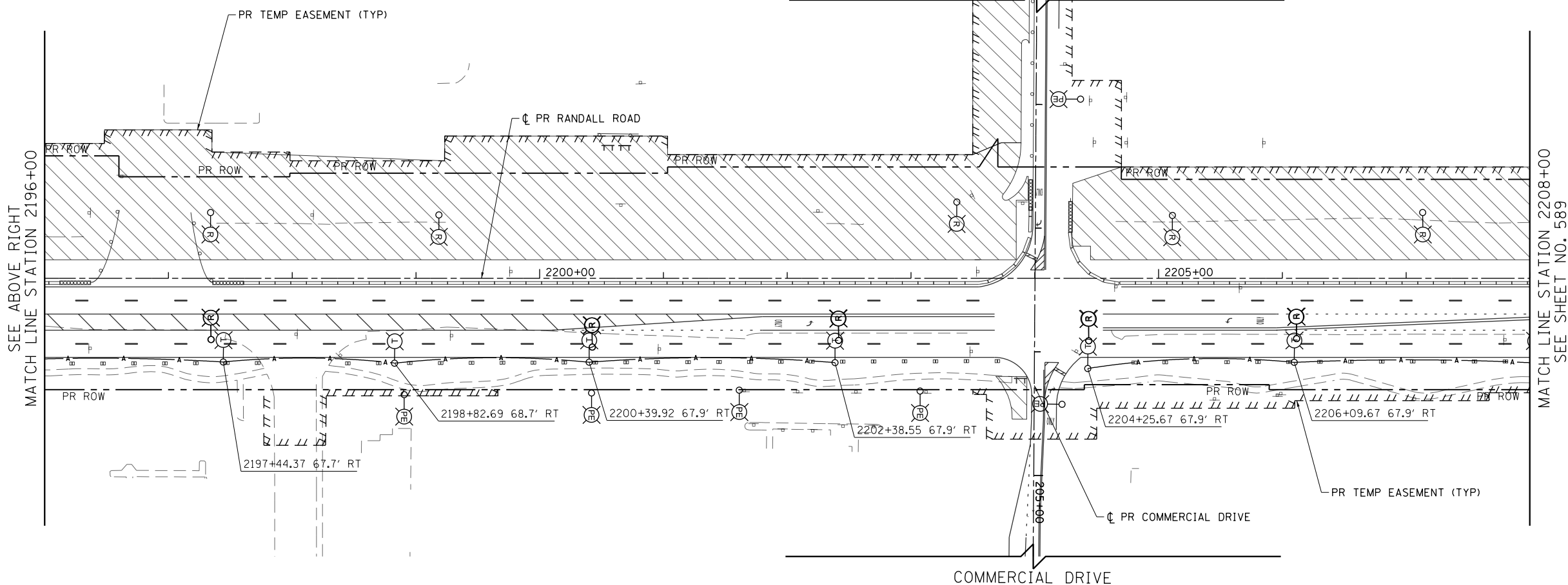
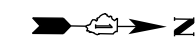
FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-01-PW	MCHENRY	1751	587
				CONTRACT NO. 61E53
ILLINOIS FED. AID PROJECT				

SEE SHEET NO. 593
ALGONQUIN ROAD
MATCH LINE STATION 1347+00



MATCH LINE STATION 1351+00
ALGONQUIN ROAD
SEE SHEET NO. 593

COMMERCIAL DRIVE



- NOTES:**
- SEE SHEET NO. 569 FOR LEGEND AND GENERAL NOTES
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL ROADWAY LIGHTING WITHIN THE PROJECT LIMITS FOR THE DURATION OF THE PROJECT. ANY DAMAGE INCURRED DURING CONSTRUCTION SHALL BE PROMPTLY REPAIRED SO SERVICE IS NOT DISRUPTED. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE EXISTING CONDITIONS.
 - THE LOCATION OF THE TEMPORARY WOOD POLES SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION
 - TEMPORARY LIGHTING UNITS SHALL BE OPERATIONAL BEFORE EXISTING POLES ARE REMOVED
 - TEMPORARY LIGHTING SHALL NOT BE REMOVED UNTIL THE NEXT STAGE OF TEMPORARY LIGHTING OR PERMANENT LIGHTING IS INSTALLED AND OPERATIONAL.
 - THE COST TO PROVIDE TEMPORARY CONNECTIONS TO EXISTING CONTROLLERS AND TEMPORARY LIGHTING UNITS SHALL BE INCLUDED IN THE BID UNIT PRICE FOR AERIAL CABLE.
 - FOR TEMPORARY LIGHT POLE AND INSTALLATION OF AERIAL CABLE DETAILS SEE SHEETS NO. 597, 598 AND 599.
 - EXISTING LIGHTING CONTROLLER TO BE USED FOR TEMPORARY LIGHTING. USE EXISTING SERVICE CONNECTIONS, EXISTING CONTROLLER USED FOR TEMPORARY SERVICE TO BE REMOVED ONCE THE NEW CONTROLLER IS INSTALLED AND OPERATIONAL.



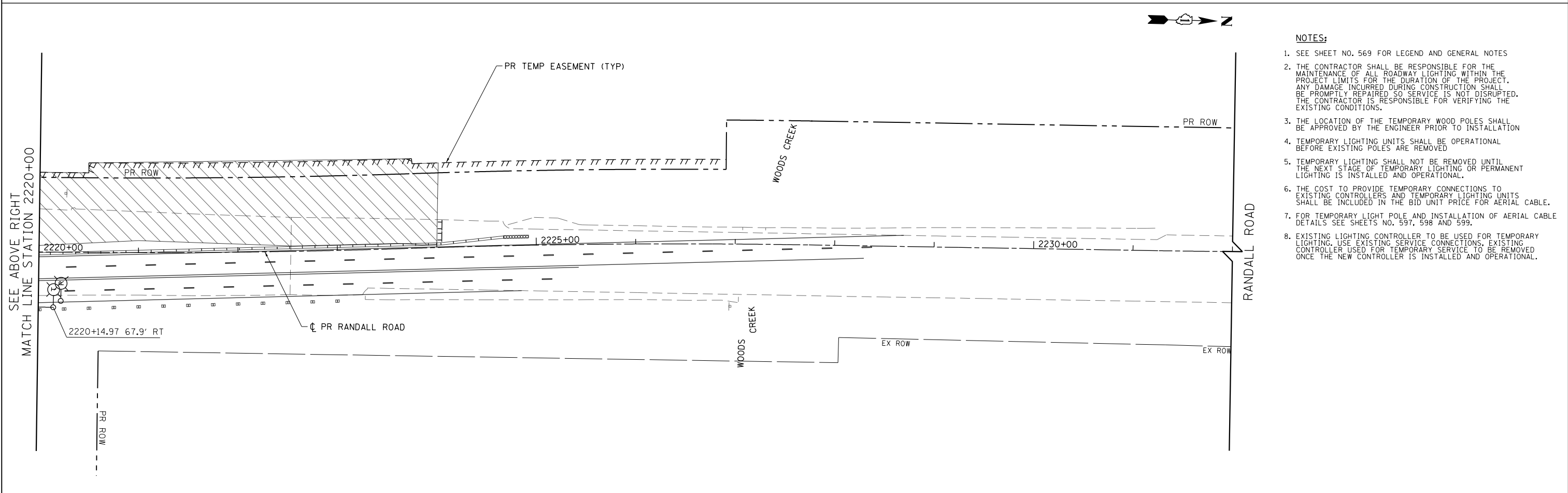
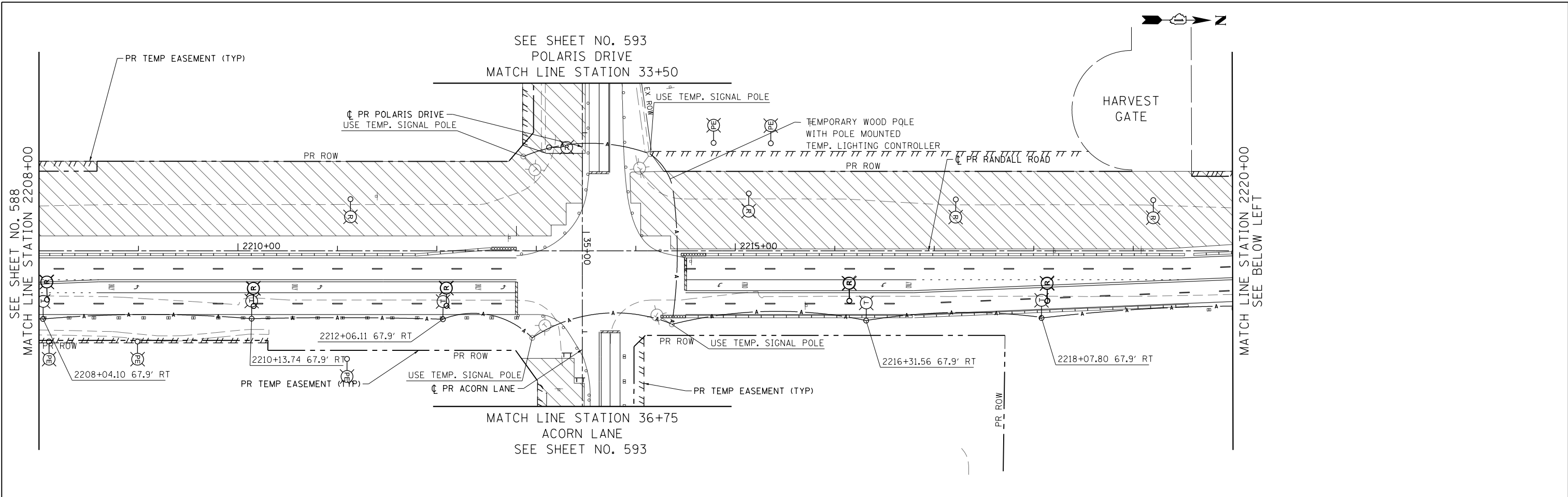
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RANDALL ROAD EXISTING LIGHTING REMOVAL & TEMPORARY LIGHTING
STAGE 1

SCALE: 1" = 50' SHEET 3 OF 9 SHEETS STA 2184+00 TO STA 2208+00

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-01-PW	MCHENRY	1751	588
				CONTRACT NO. 61E53
ILLINOIS FED. AID PROJECT				



- NOTES:**
- SEE SHEET NO. 569 FOR LEGEND AND GENERAL NOTES
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL ROADWAY LIGHTING WITHIN THE PROJECT LIMITS FOR THE DURATION OF THE PROJECT. ANY DAMAGE INCURRED DURING CONSTRUCTION SHALL BE PROMPTLY REPAIRED SO SERVICE IS NOT DISRUPTED. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE EXISTING CONDITIONS.
 - THE LOCATION OF THE TEMPORARY WOOD POLES SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION
 - TEMPORARY LIGHTING UNITS SHALL BE OPERATIONAL BEFORE EXISTING POLES ARE REMOVED
 - TEMPORARY LIGHTING SHALL NOT BE REMOVED UNTIL THE NEXT STAGE OF TEMPORARY LIGHTING OR PERMANENT LIGHTING IS INSTALLED AND OPERATIONAL.
 - THE COST TO PROVIDE TEMPORARY CONNECTIONS TO EXISTING CONTROLLERS AND TEMPORARY LIGHTING UNITS SHALL BE INCLUDED IN THE BID UNIT PRICE FOR AERIAL CABLE.
 - FOR TEMPORARY LIGHT POLE AND INSTALLATION OF AERIAL CABLE DETAILS SEE SHEETS NO. 597, 598 AND 599.
 - EXISTING LIGHTING CONTROLLER TO BE USED FOR TEMPORARY LIGHTING. USE EXISTING SERVICE CONNECTIONS, EXISTING CONTROLLER USED FOR TEMPORARY SERVICE TO BE REMOVED ONCE THE NEW CONTROLLER IS INSTALLED AND OPERATIONAL.

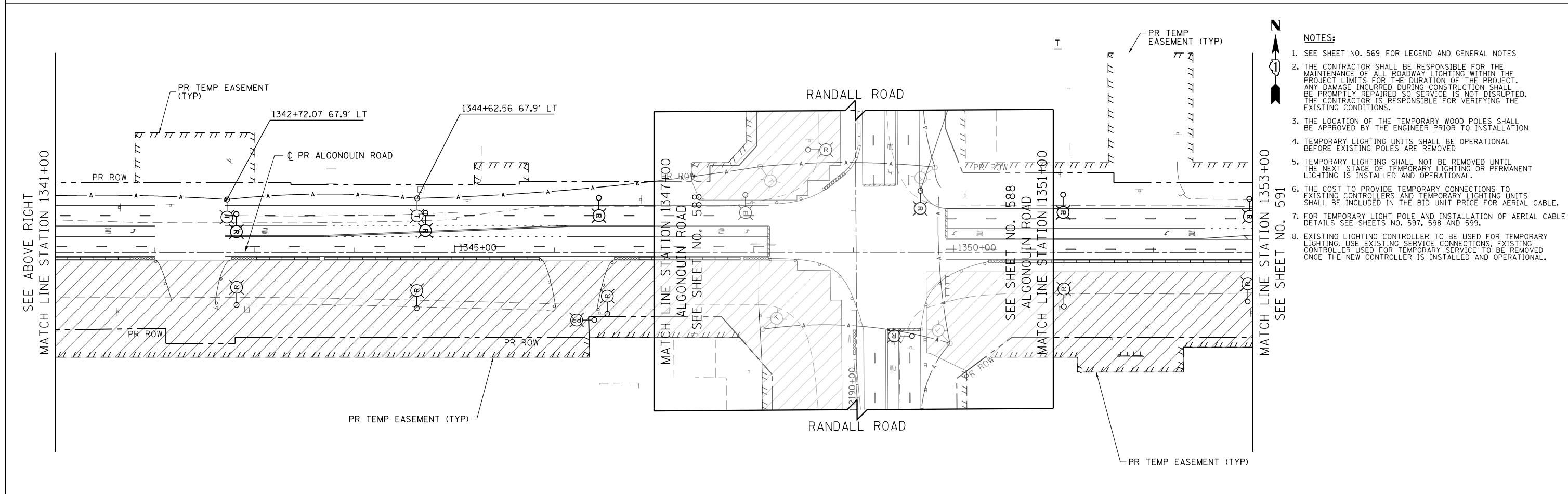
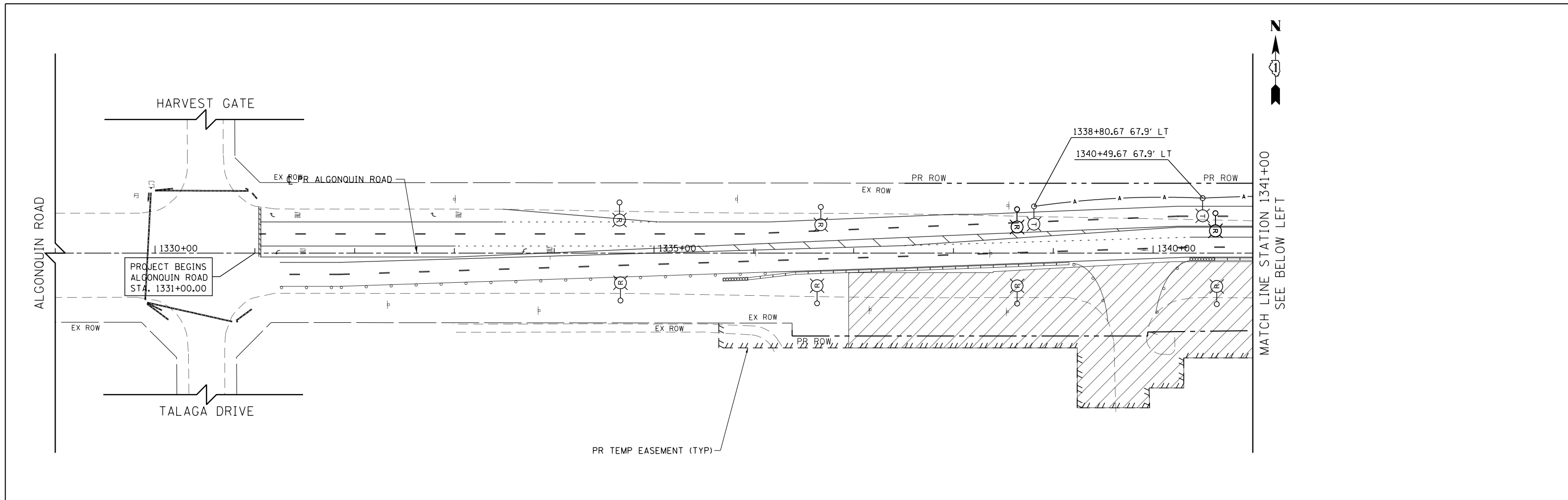
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**RANDALL ROAD EXISTING LIGHTING REMOVAL & TEMPORARY LIGHTING
STAGE 1**

SCALE: 1" = 50' SHEET 4 OF 9 SHEETS STA 2208+00 TO STA 2232+00

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-01-PW	MCHENRY	1751	589
			CONTRACT NO. 61E53	
ILLINOIS FED. AID PROJECT				



- NOTES:**
1. SEE SHEET NO. 569 FOR LEGEND AND GENERAL NOTES
 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL ROADWAY LIGHTING WITHIN THE PROJECT LIMITS FOR THE DURATION OF THE PROJECT. ANY DAMAGE INCURRED DURING CONSTRUCTION SHALL BE PROMPTLY REPAIRED SO SERVICE IS NOT DISRUPTED. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE EXISTING CONDITIONS.
 3. THE LOCATION OF THE TEMPORARY WOOD POLES SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION
 4. TEMPORARY LIGHTING UNITS SHALL BE OPERATIONAL BEFORE EXISTING POLES ARE REMOVED
 5. TEMPORARY LIGHTING SHALL NOT BE REMOVED UNTIL THE NEXT STAGE OF TEMPORARY LIGHTING OR PERMANENT LIGHTING IS INSTALLED AND OPERATIONAL.
 6. THE COST TO PROVIDE TEMPORARY CONNECTIONS TO EXISTING CONTROLLERS AND TEMPORARY LIGHTING UNITS SHALL BE INCLUDED IN THE BID UNIT PRICE FOR AERIAL CABLE.
 7. FOR TEMPORARY LIGHT POLE AND INSTALLATION OF AERIAL CABLE DETAILS SEE SHEETS NO. 597, 598 AND 599.
 8. EXISTING LIGHTING CONTROLLER TO BE USED FOR TEMPORARY LIGHTING. USE EXISTING SERVICE CONNECTIONS, EXISTING CONTROLLER USED FOR TEMPORARY SERVICE TO BE REMOVED ONCE THE NEW CONTROLLER IS INSTALLED AND OPERATIONAL.

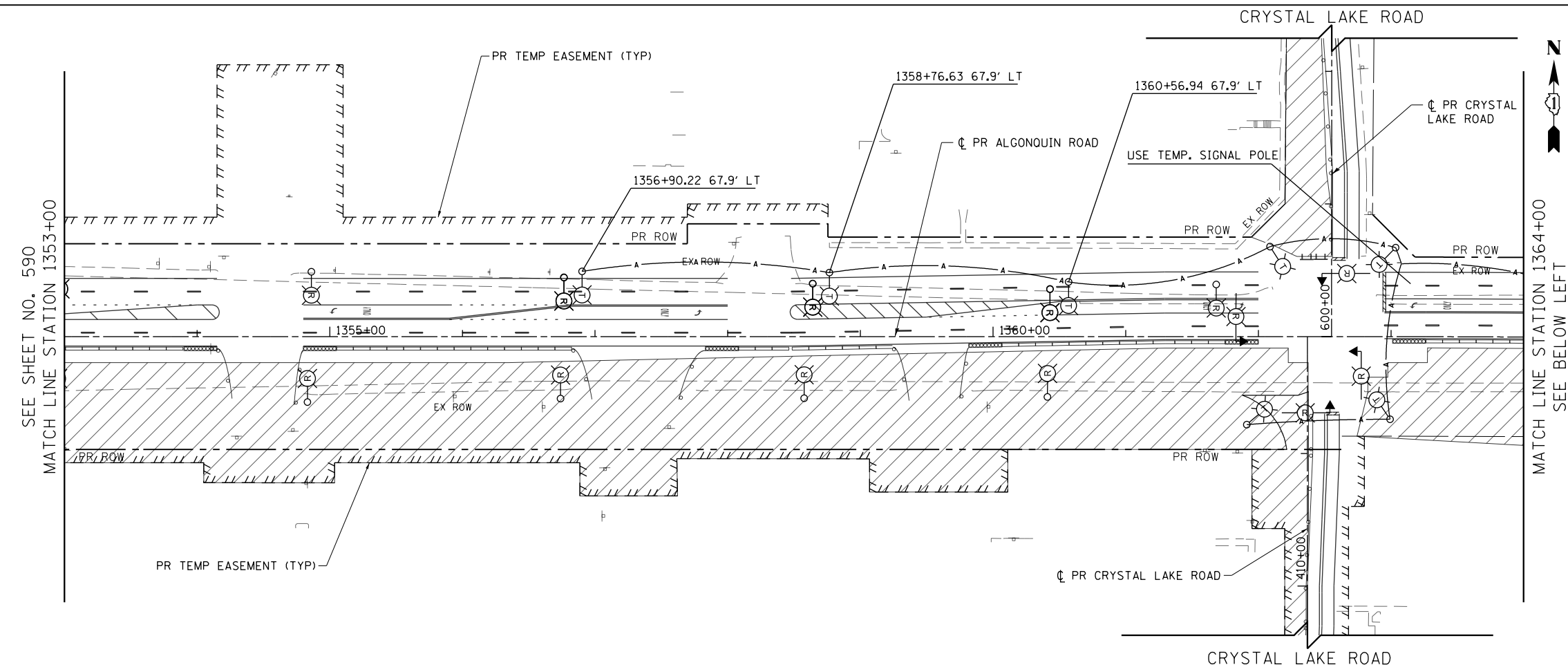
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ALGONQUIN ROAD EXISTING LIGHTING REMOVAL & TEMPORARY LIGHTING
STAGE 1**

SCALE: 1" = 50' SHEET 5 OF 9 SHEETS STA 1329+00 TO STA 1353+00

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-01-PW	MCHENRY	1751	590
				CONTRACT NO. 61E53
ILLINOIS FED. AID PROJECT				



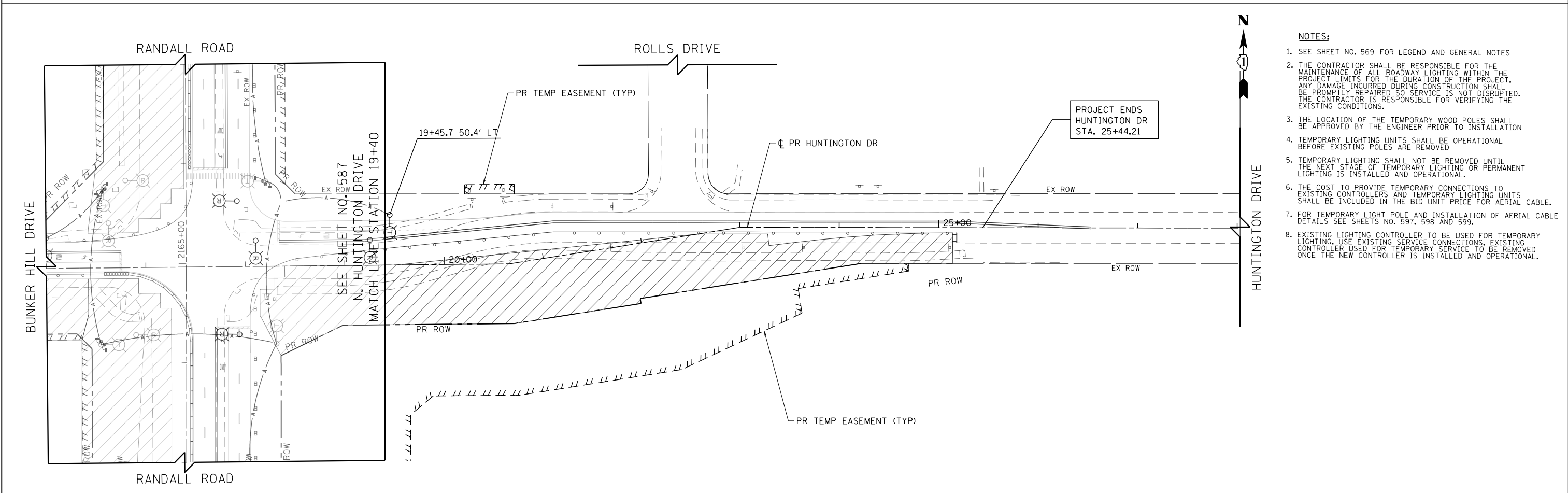
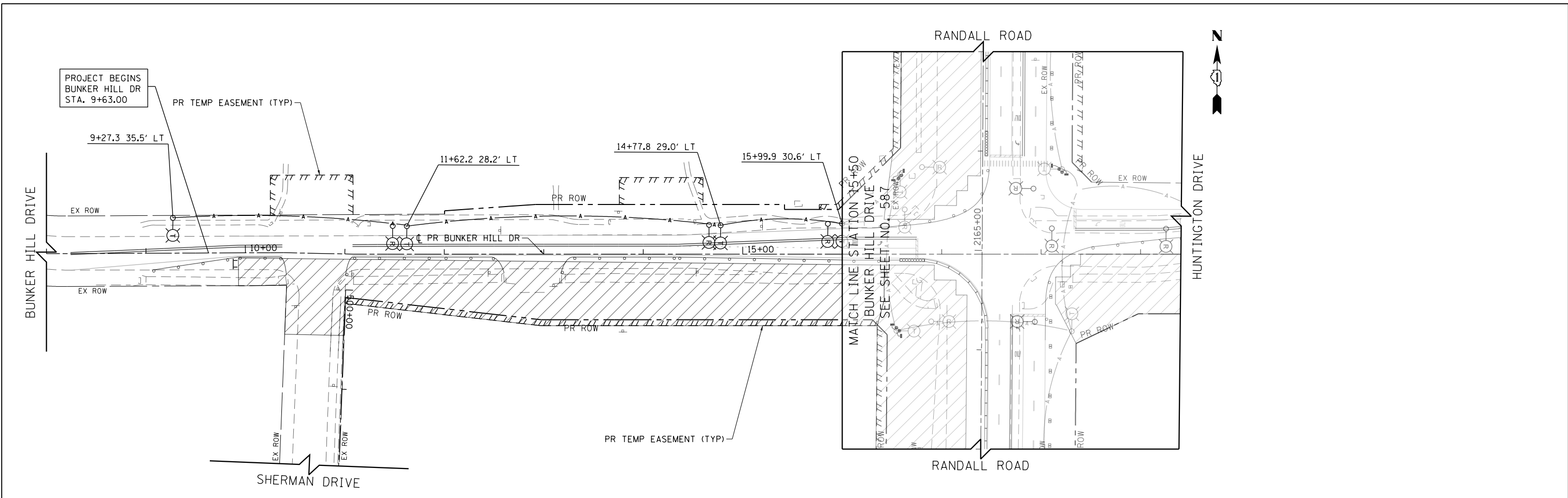
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ALGONQUIN ROAD EXISTING LIGHTING REMOVAL & TEMPORARY LIGHTING
STAGE 1**

SCALE: 1" = 50' SHEET 6 OF 9 SHEETS STA 1353+00 TO STA 1376+00

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-01-PW	MCHENRY	1751	591
				CONTRACT NO. 61E53
ILLINOIS FED. AID PROJECT				



- NOTES:**
1. SEE SHEET NO. 569 FOR LEGEND AND GENERAL NOTES
 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL ROADWAY LIGHTING WITHIN THE PROJECT LIMITS FOR THE DURATION OF THE PROJECT. ANY DAMAGE INCURRED DURING CONSTRUCTION SHALL BE PROMPTLY REPAIRED SO SERVICE IS NOT DISRUPTED. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE EXISTING CONDITIONS.
 3. THE LOCATION OF THE TEMPORARY WOOD POLES SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION
 4. TEMPORARY LIGHTING UNITS SHALL BE OPERATIONAL BEFORE EXISTING POLES ARE REMOVED
 5. TEMPORARY LIGHTING SHALL NOT BE REMOVED UNTIL THE NEXT STAGE OF TEMPORARY LIGHTING OR PERMANENT LIGHTING IS INSTALLED AND OPERATIONAL.
 6. THE COST TO PROVIDE TEMPORARY CONNECTIONS TO EXISTING CONTROLLERS AND TEMPORARY LIGHTING UNITS SHALL BE INCLUDED IN THE BID UNIT PRICE FOR AERIAL CABLE.
 7. FOR TEMPORARY LIGHT POLE AND INSTALLATION OF AERIAL CABLE DETAILS SEE SHEETS NO. 597, 598 AND 599.
 8. EXISTING LIGHTING CONTROLLER TO BE USED FOR TEMPORARY LIGHTING. USE EXISTING SERVICE CONNECTIONS. EXISTING CONTROLLER USED FOR TEMPORARY SERVICE TO BE REMOVED ONCE THE NEW CONTROLLER IS INSTALLED AND OPERATIONAL.



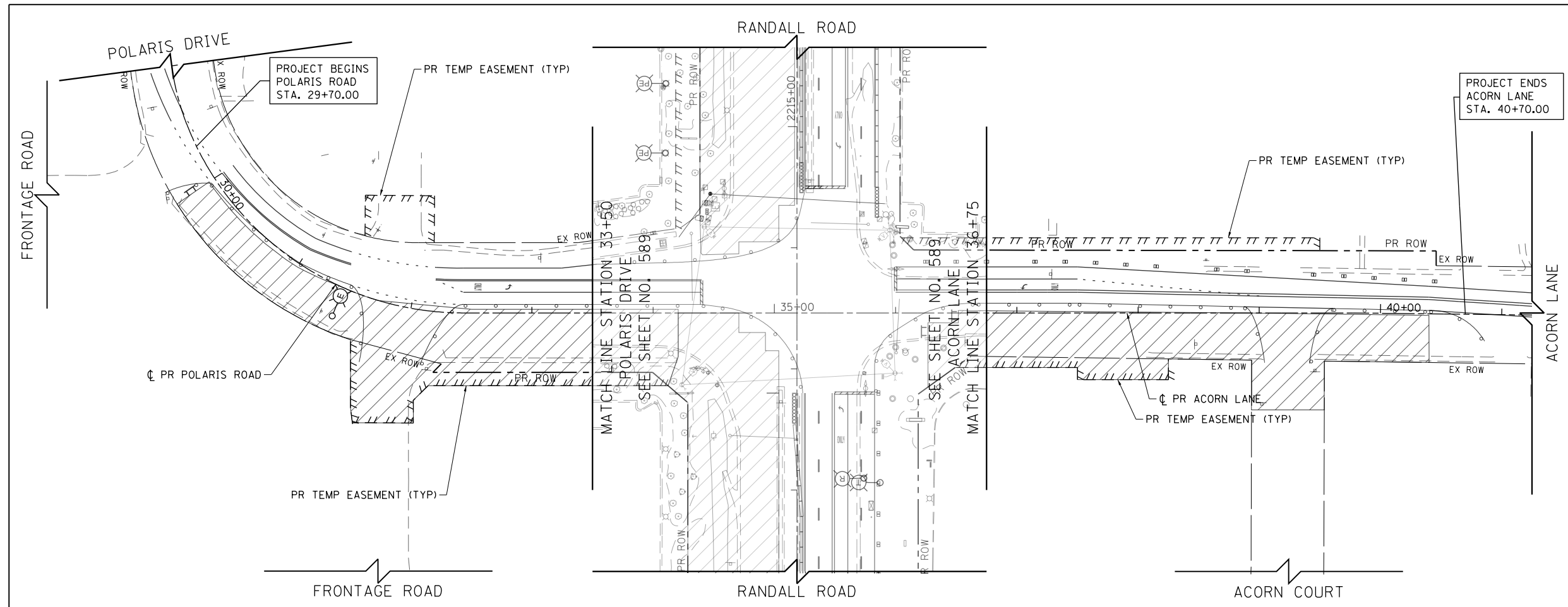
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BUNKER HILL DRIVE / HUNTINGTON DRIVE EXISTING LIGHTING REMOVAL
& TEMPORARY LIGHTING - STAGE 1**

SCALE: 1" = 50' SHEET 7 OF 9 SHEETS STA 8+00 TO STA 29+00

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-01-PW	MCHENRY	1751	592
			CONTRACT NO. 61E53	
ILLINOIS FED. AID PROJECT				



NOTES:

1. SEE SHEET NO. 569 FOR LEGEND AND GENERAL NOTES
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL ROADWAY LIGHTING WITHIN THE PROJECT LIMITS FOR THE DURATION OF THE PROJECT. ANY DAMAGE INCURRED DURING CONSTRUCTION SHALL BE PROMPTLY REPAIRED SO SERVICE IS NOT DISRUPTED. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE EXISTING CONDITIONS.
3. THE LOCATION OF THE TEMPORARY WOOD POLES SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION
4. TEMPORARY LIGHTING UNITS SHALL BE OPERATIONAL BEFORE EXISTING POLES ARE REMOVED
5. TEMPORARY LIGHTING SHALL NOT BE REMOVED UNTIL THE NEXT STAGE OF TEMPORARY LIGHTING OR PERMANENT LIGHTING IS INSTALLED AND OPERATIONAL.
6. THE COST TO PROVIDE TEMPORARY CONNECTIONS TO EXISTING CONTROLLERS AND TEMPORARY LIGHTING UNITS SHALL BE INCLUDED IN THE BID UNIT PRICE FOR AERIAL CABLE.
7. FOR TEMPORARY LIGHT POLE AND INSTALLATION OF AERIAL CABLE DETAILS SEE SHEETS NO. 597, 598 AND 599.
8. EXISTING LIGHTING CONTROLLER TO BE USED FOR TEMPORARY LIGHTING. USE EXISTING SERVICE CONNECTIONS, EXISTING CONTROLLER USED FOR TEMPORARY SERVICE TO BE REMOVED ONCE THE NEW CONTROLLER IS INSTALLED AND OPERATIONAL.



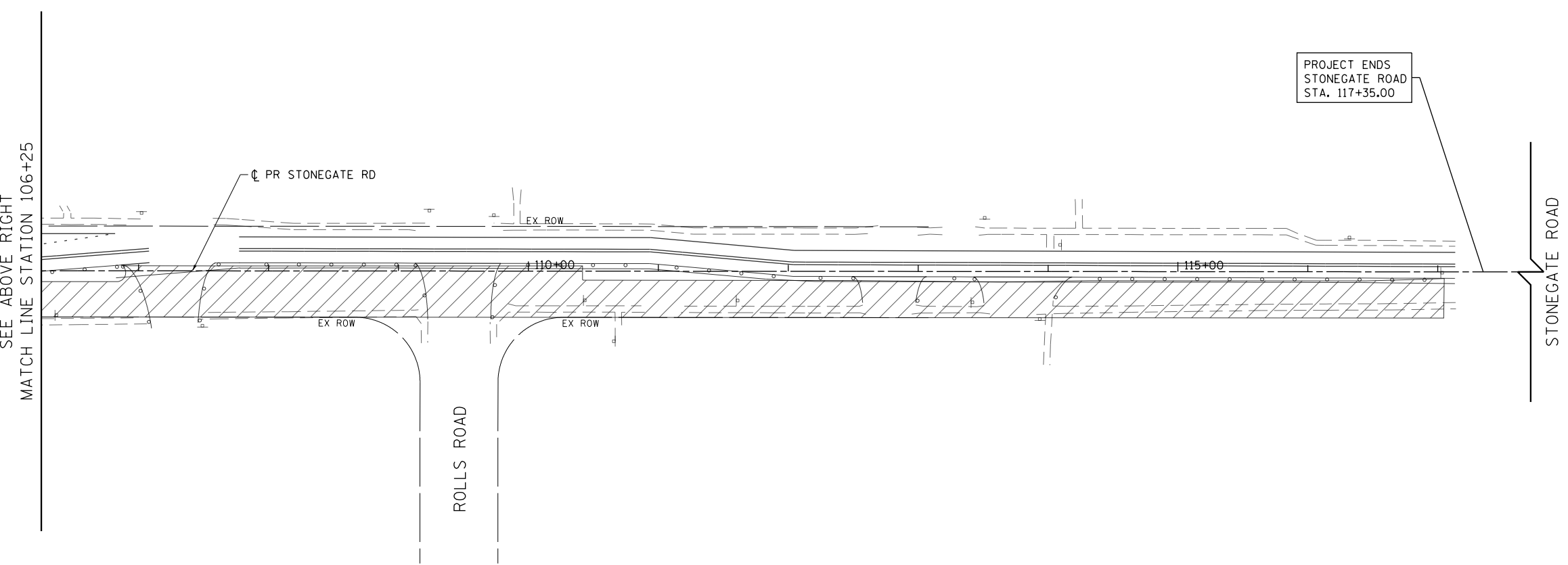
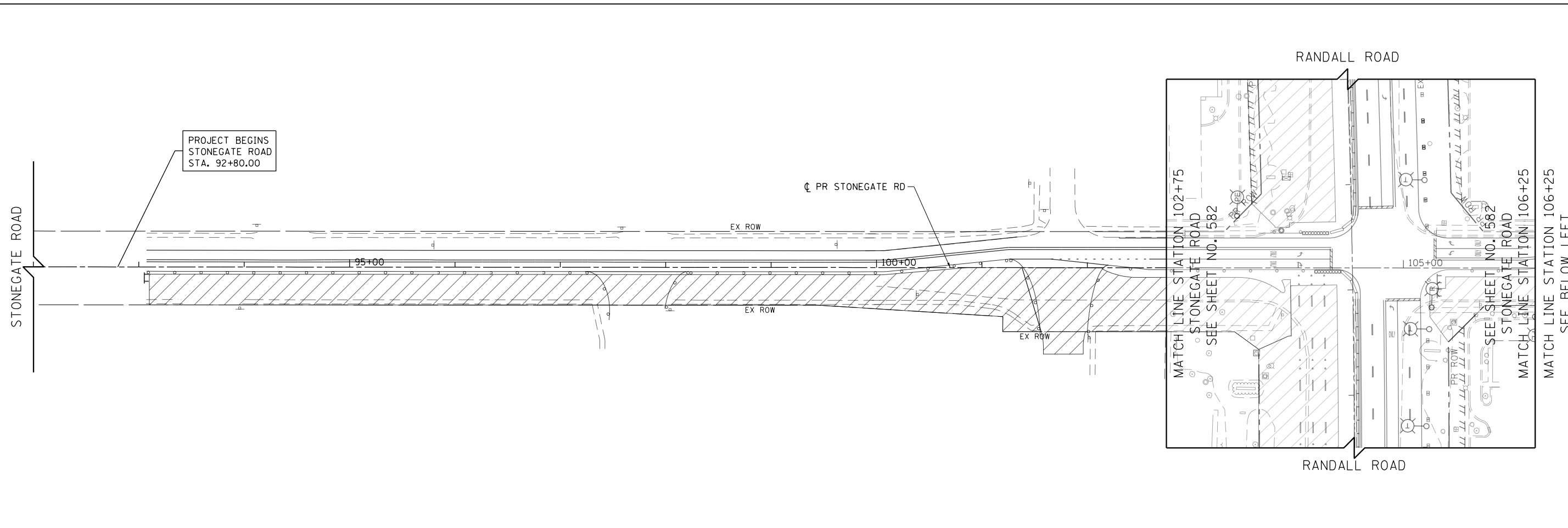
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**POLARIS DRIVE /ACORN LANE EXISTING LIGHTING REMOVAL
& TEMPORARY LIGHTING - STAGE 1**

SCALE: 1" = 50' SHEET 8 OF 9 SHEETS STA 28+00 TO STA 41+00

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-01-PW	MCHENRY	1751	593
			CONTRACT NO.	61E53
ILLINOIS FED. AID PROJECT				



- NOTES:**
- SEE SHEET NO. 569 FOR LEGEND AND GENERAL NOTES
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL ROADWAY LIGHTING WITHIN THE PROJECT LIMITS FOR THE DURATION OF THE PROJECT. ANY DAMAGE INCURRED DURING CONSTRUCTION SHALL BE PROMPTLY REPAIRED SO SERVICE IS NOT DISRUPTED. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE EXISTING CONDITIONS.
 - THE LOCATION OF THE TEMPORARY WOOD POLES SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION
 - TEMPORARY LIGHTING UNITS SHALL BE OPERATIONAL BEFORE EXISTING POLES ARE REMOVED
 - TEMPORARY LIGHTING SHALL NOT BE REMOVED UNTIL THE NEXT STAGE OF TEMPORARY LIGHTING OR PERMANENT LIGHTING IS INSTALLED AND OPERATIONAL.
 - THE COST TO PROVIDE TEMPORARY CONNECTIONS TO EXISTING CONTROLLERS AND TEMPORARY LIGHTING UNITS SHALL BE INCLUDED IN THE BID UNIT PRICE FOR AERIAL CABLE.
 - FOR TEMPORARY LIGHT POLE AND INSTALLATION OF AERIAL CABLE DETAILS SEE SHEETS NO. 597, 598 AND 599.
 - EXISTING LIGHTING CONTROLLER TO BE USED FOR TEMPORARY LIGHTING. USE EXISTING SERVICE CONNECTIONS. EXISTING CONTROLLER USED FOR TEMPORARY SERVICE TO BE REMOVED ONCE THE NEW CONTROLLER IS INSTALLED AND OPERATIONAL.

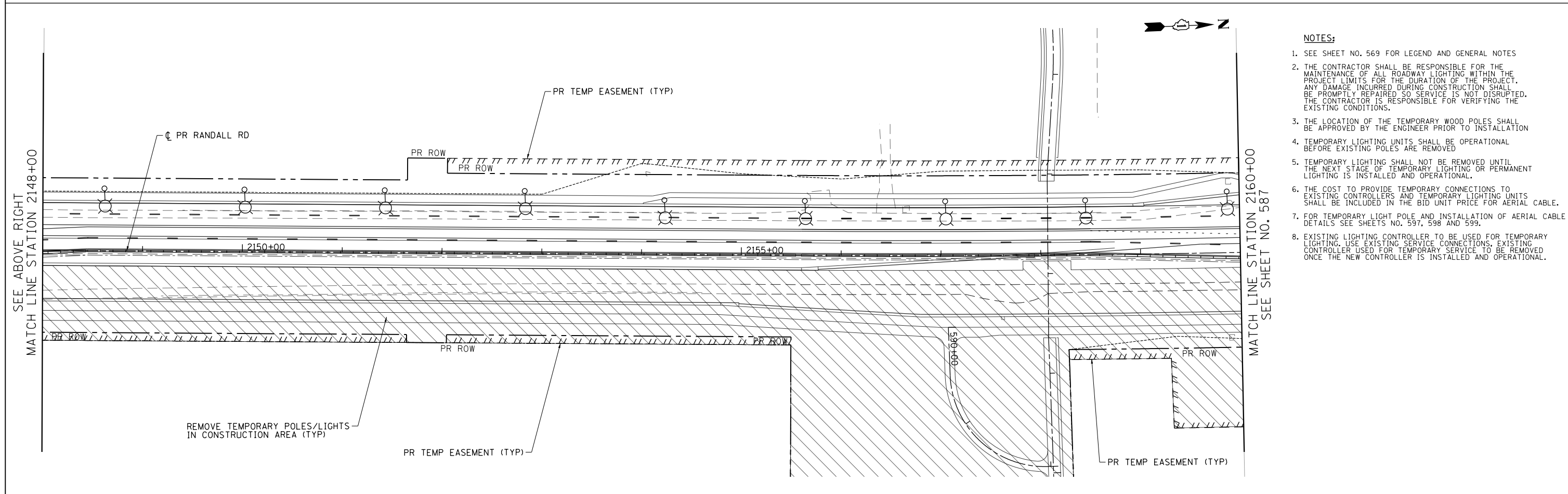
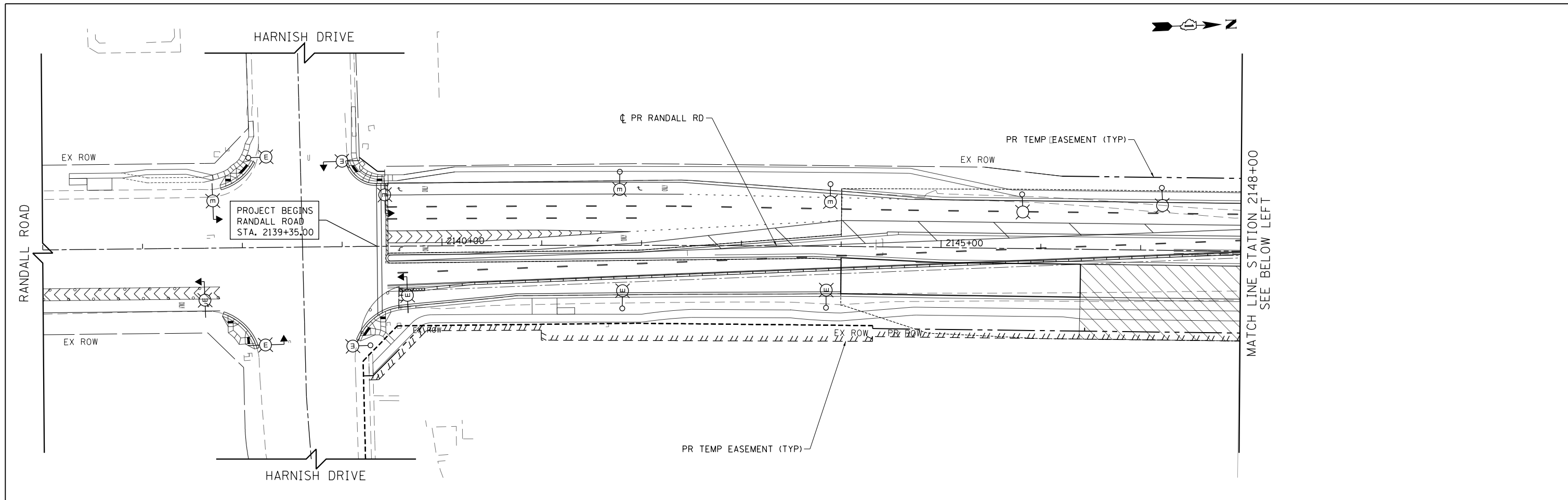


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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STONEGATE ROAD EXISTING LIGHTING REMOVAL & TEMPORARY LIGHTING
STAGE 1
SCALE: 1" = 50' SHEET 9 OF 9 SHEETS STA 100+00 TO STA 109+00

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-01-PW	MCHENRY	1751	594
				CONTRACT NO. 61E53
ILLINOIS FED. AID PROJECT				



- NOTES:**
1. SEE SHEET NO. 569 FOR LEGEND AND GENERAL NOTES
 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL ROADWAY LIGHTING WITHIN THE PROJECT LIMITS FOR THE DURATION OF THE PROJECT. ANY DAMAGE INCURRED DURING CONSTRUCTION SHALL BE PROMPTLY REPAIRED SO SERVICE IS NOT DISRUPTED. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE EXISTING CONDITIONS.
 3. THE LOCATION OF THE TEMPORARY WOOD POLES SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION
 4. TEMPORARY LIGHTING UNITS SHALL BE OPERATIONAL BEFORE EXISTING POLES ARE REMOVED
 5. TEMPORARY LIGHTING SHALL NOT BE REMOVED UNTIL THE NEXT STAGE OF TEMPORARY LIGHTING OR PERMANENT LIGHTING IS INSTALLED AND OPERATIONAL.
 6. THE COST TO PROVIDE TEMPORARY CONNECTIONS TO EXISTING CONTROLLERS AND TEMPORARY LIGHTING UNITS SHALL BE INCLUDED IN THE BID UNIT PRICE FOR AERIAL CABLE.
 7. FOR TEMPORARY LIGHT POLE AND INSTALLATION OF AERIAL CABLE DETAILS SEE SHEETS NO. 597, 598 AND 599.
 8. EXISTING LIGHTING CONTROLLER TO BE USED FOR TEMPORARY LIGHTING. USE EXISTING SERVICE CONNECTIONS, EXISTING CONTROLLER USED FOR TEMPORARY SERVICE TO BE REMOVED ONCE THE NEW CONTROLLER IS INSTALLED AND OPERATIONAL.

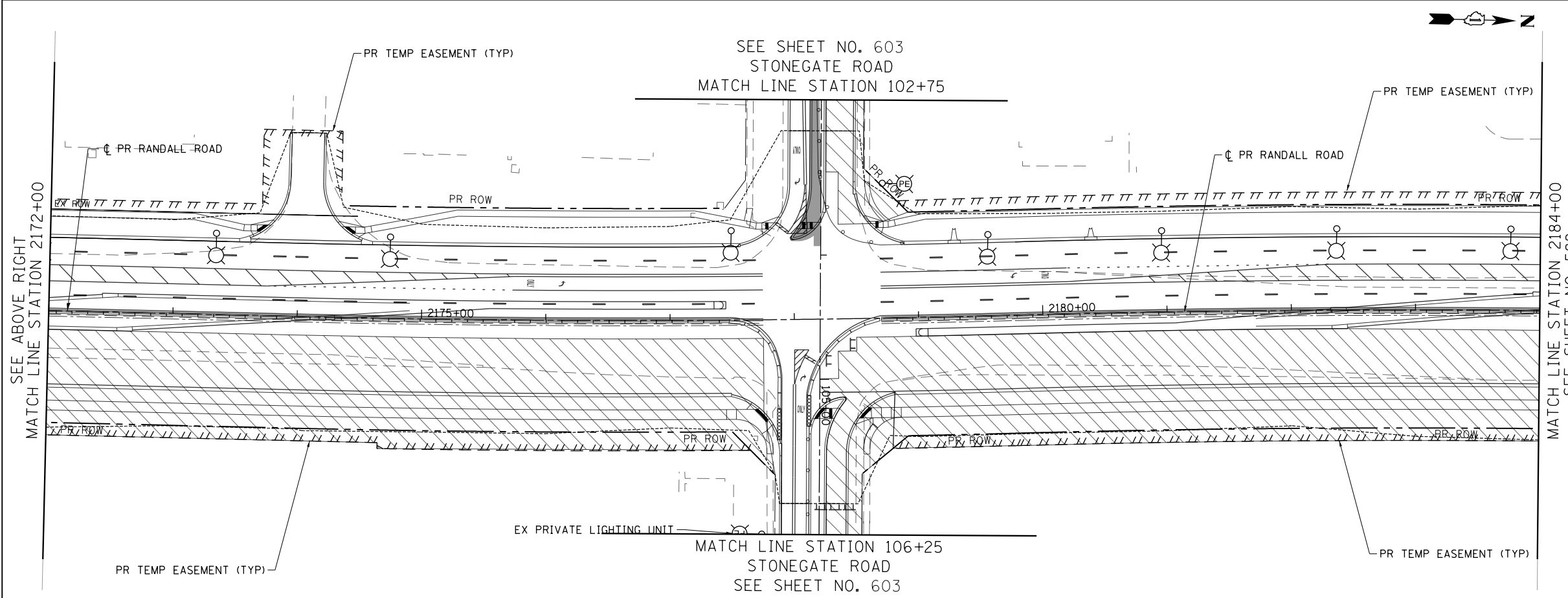
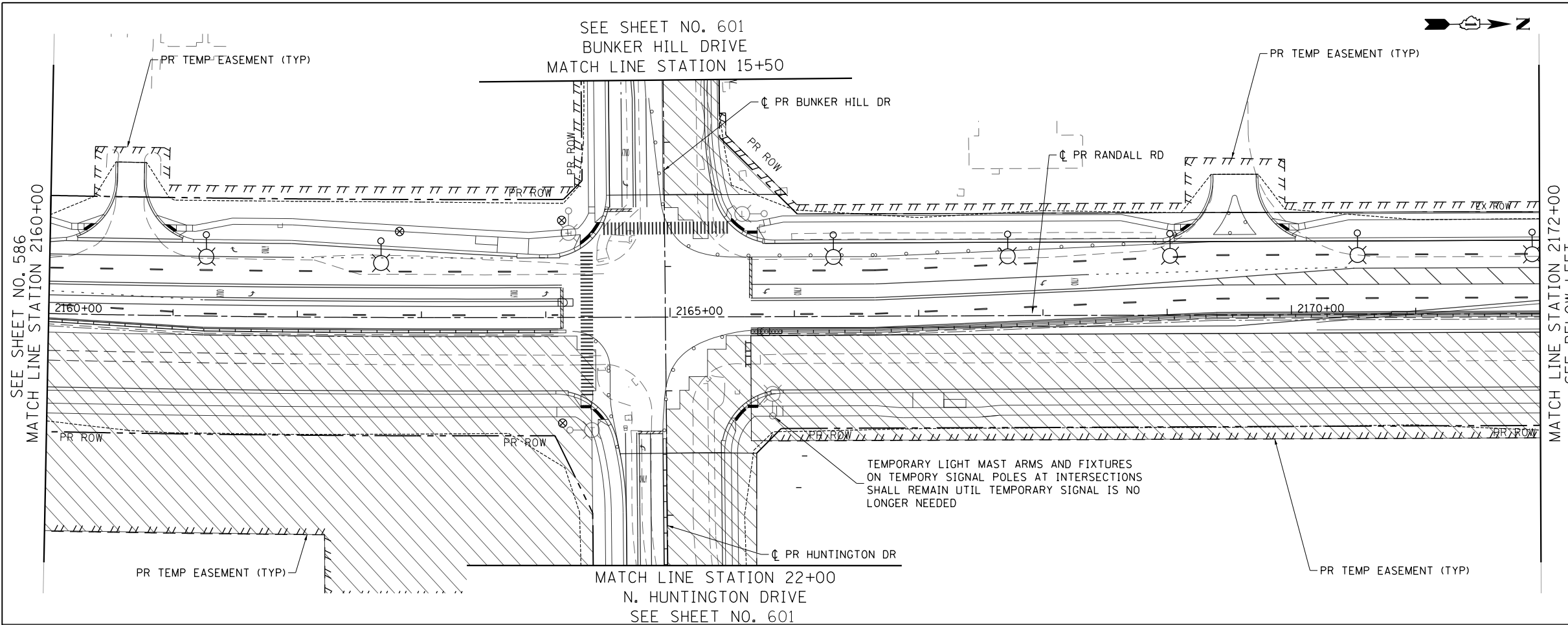
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**RANDALL ROAD EXISTING LIGHTING REMOVAL & TEMPORARY LIGHTING
STAGE 2**

SCALE: 1" = 50' SHEET 1 OF 9 SHEETS STA 2144+06.63 TO STA 2160+00

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-01-PW	MCHENRY	1751	595
			CONTRACT NO. 61E53	
ILLINOIS FED. AID PROJECT				



NOTES:

1. SEE SHEET NO. 569 FOR LEGEND AND GENERAL NOTES
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL ROADWAY LIGHTING WITHIN THE PROJECT LIMITS FOR THE DURATION OF THE PROJECT. ANY DAMAGE INCURRED DURING CONSTRUCTION SHALL BE PROMPTLY REPAIRED SO SERVICE IS NOT DISRUPTED. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE EXISTING CONDITIONS.
3. THE LOCATION OF THE TEMPORARY WOOD POLES SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION
4. TEMPORARY LIGHTING UNITS SHALL BE OPERATIONAL BEFORE EXISTING POLES ARE REMOVED
5. TEMPORARY LIGHTING SHALL NOT BE REMOVED UNTIL THE NEXT STAGE OF TEMPORARY LIGHTING OR PERMANENT LIGHTING IS INSTALLED AND OPERATIONAL.
6. THE COST TO PROVIDE TEMPORARY CONNECTIONS TO EXISTING CONTROLLERS AND TEMPORARY LIGHTING UNITS SHALL BE INCLUDED IN THE BID UNIT PRICE FOR AERIAL CABLE.
7. FOR TEMPORARY LIGHT POLE AND INSTALLATION OF AERIAL CABLE DETAILS SEE SHEETS NO. 597, 598 AND 599.
8. EXISTING LIGHTING CONTROLLER TO BE USED FOR TEMPORARY LIGHTING. USE EXISTING SERVICE CONNECTIONS, EXISTING CONTROLLER USED FOR TEMPORARY SERVICE TO BE REMOVED ONCE THE NEW CONTROLLER IS INSTALLED AND OPERATIONAL.



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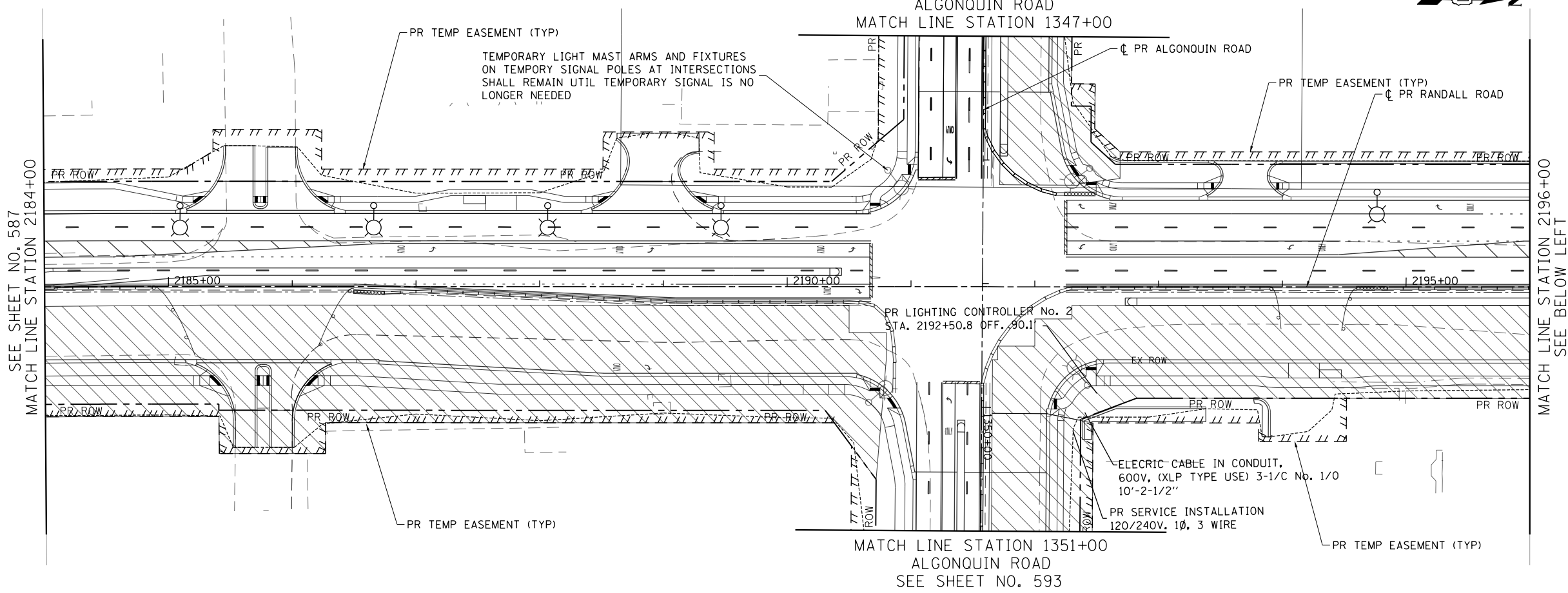
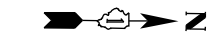
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**RANDALL ROAD EXISTING LIGHTING REMOVAL & TEMPORARY LIGHTING
STAGE 2**

SCALE: 1" = 50' SHEET 2 OF 9 SHEETS STA 2160+00 TO STA 2184+00

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-01-PW	MCHENRY	1751	596
				CONTRACT NO. 61E53
ILLINOIS FED. AID PROJECT				

SEE SHEET NO. 593
ALGONQUIN ROAD
MATCH LINE STATION 1347+00

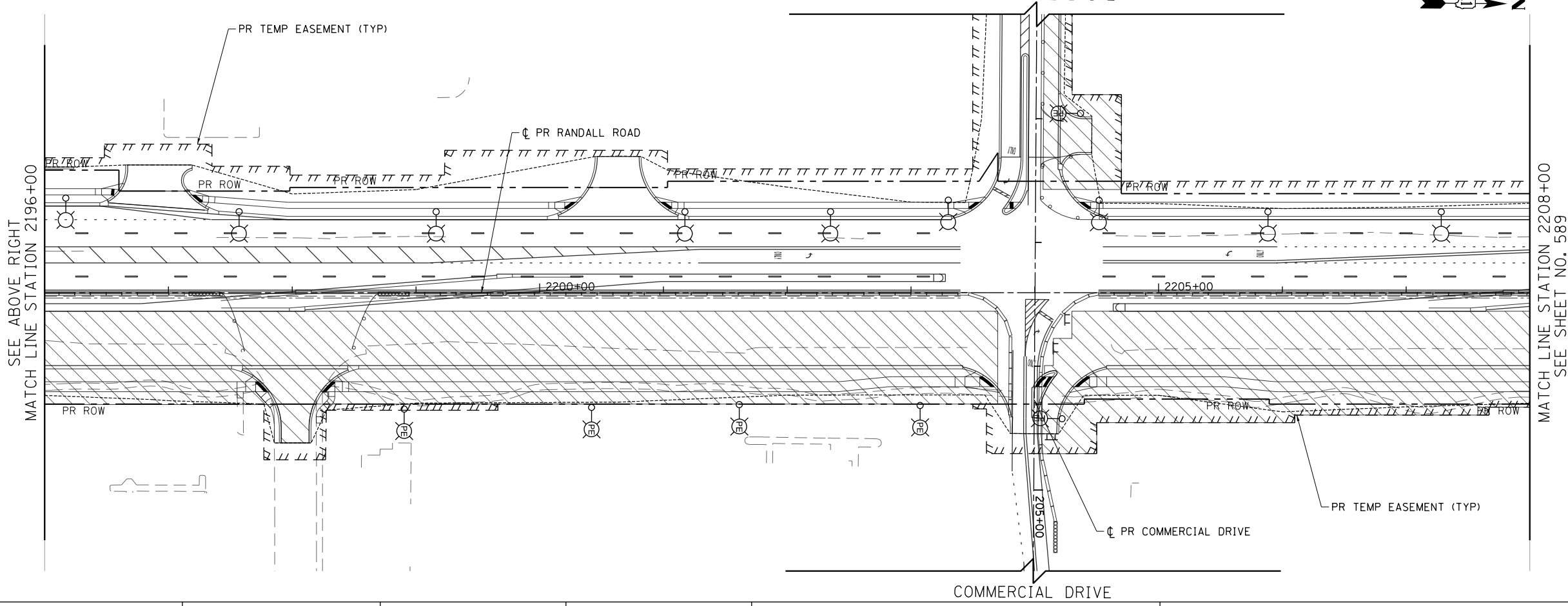
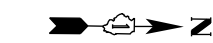


SEE SHEET NO. 587
MATCH LINE STATION 2184+00

MATCH LINE STATION 2196+00
SEE BELOW LEFT

MATCH LINE STATION 1351+00
ALGONQUIN ROAD
SEE SHEET NO. 593

COMMERCIAL DRIVE



SEE ABOVE RIGHT
MATCH LINE STATION 2196+00

MATCH LINE STATION 2208+00
SEE SHEET NO. 589

COMMERCIAL DRIVE

- NOTES:**
- SEE SHEET NO. 569 FOR LEGEND AND GENERAL NOTES
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL ROADWAY LIGHTING WITHIN THE PROJECT LIMITS FOR THE DURATION OF THE PROJECT. ANY DAMAGE INCURRED DURING CONSTRUCTION SHALL BE PROMPTLY REPAIRED SO SERVICE IS NOT DISRUPTED. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE EXISTING CONDITIONS.
 - THE LOCATION OF THE TEMPORARY WOOD POLES SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION
 - TEMPORARY LIGHTING UNITS SHALL BE OPERATIONAL BEFORE EXISTING POLES ARE REMOVED
 - TEMPORARY LIGHTING SHALL NOT BE REMOVED UNTIL THE NEXT STAGE OF TEMPORARY LIGHTING OR PERMANENT LIGHTING IS INSTALLED AND OPERATIONAL.
 - THE COST TO PROVIDE TEMPORARY CONNECTIONS TO EXISTING CONTROLLERS AND TEMPORARY LIGHTING UNITS SHALL BE INCLUDED IN THE BID UNIT PRICE FOR AERIAL CABLE.
 - FOR TEMPORARY LIGHT POLE AND INSTALLATION OF AERIAL CABLE DETAILS SEE SHEETS NO. 597, 598 AND 599.
 - EXISTING LIGHTING CONTROLLER TO BE USED FOR TEMPORARY LIGHTING. USE EXISTING SERVICE CONNECTIONS, EXISTING CONTROLLER USED FOR TEMPORARY SERVICE TO BE REMOVED ONCE THE NEW CONTROLLER IS INSTALLED AND OPERATIONAL.



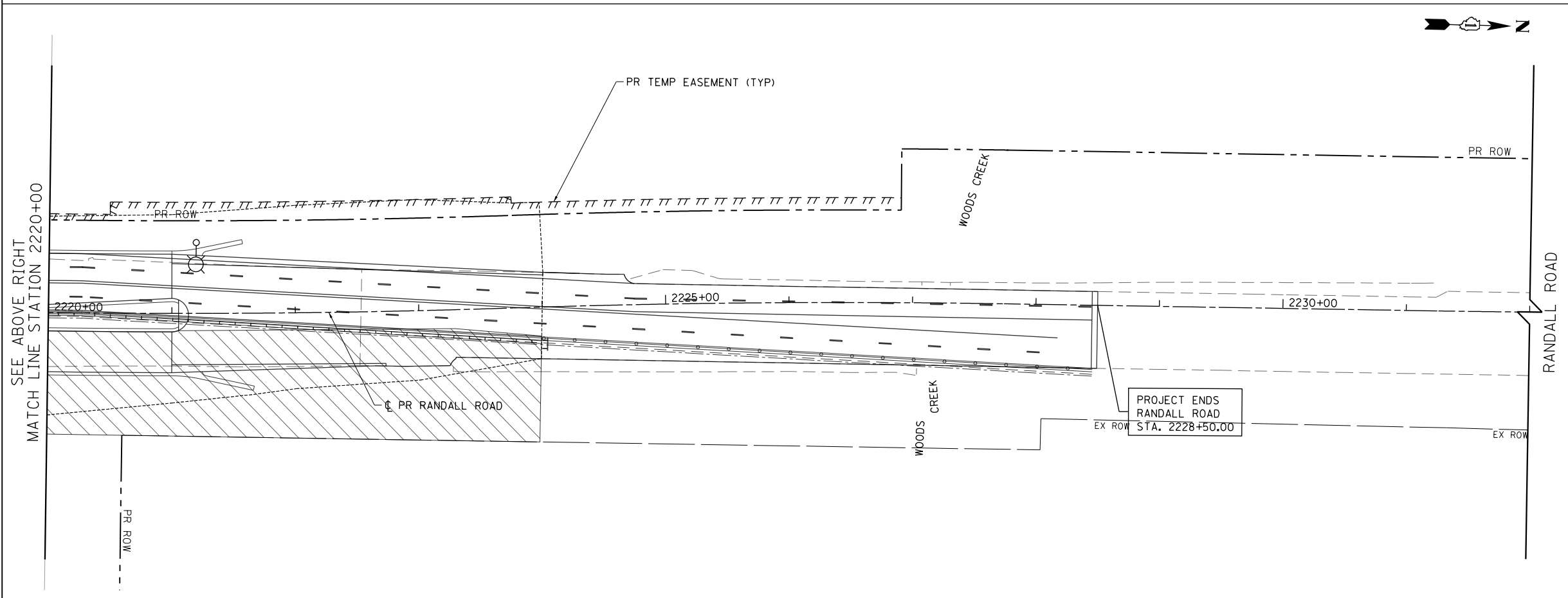
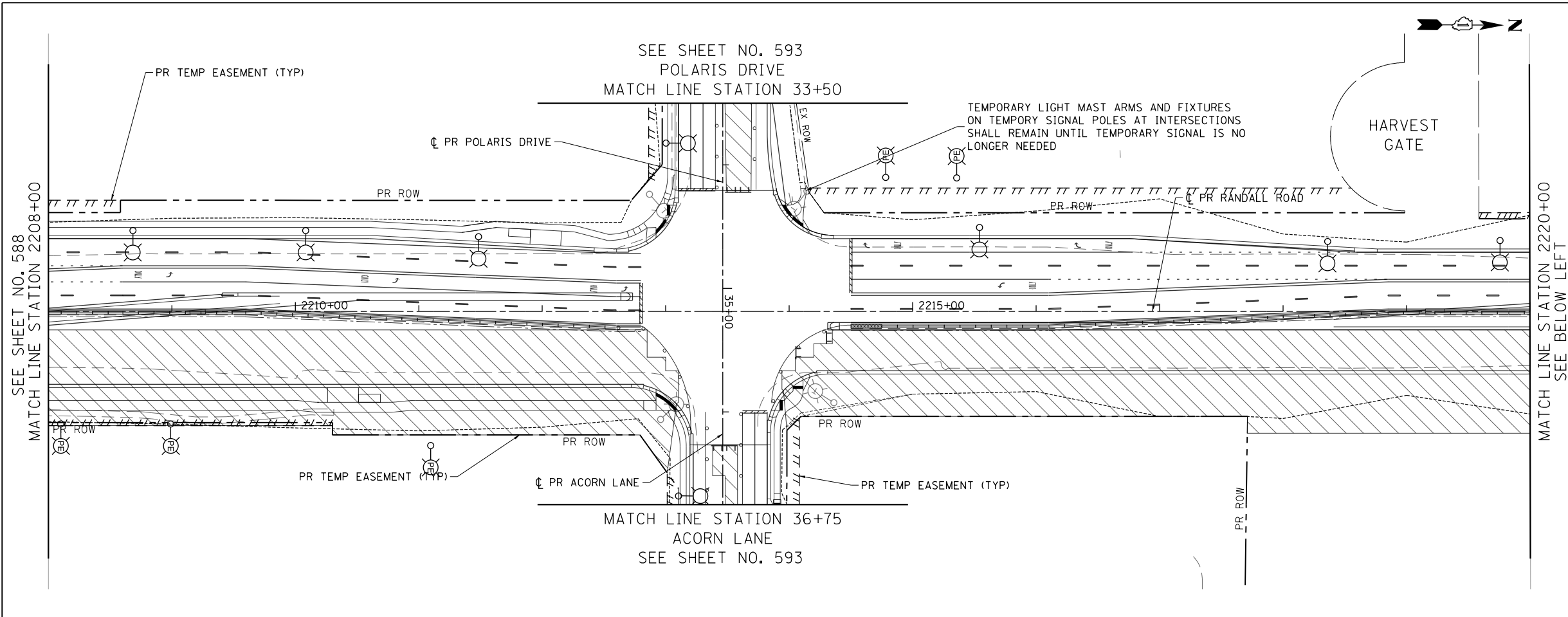
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**RANDALL ROAD EXISTING LIGHTING REMOVAL & TEMPORARY LIGHTING
STAGE 2**

SCALE: 1" = 50' SHEET 3 OF 9 SHEETS STA 2184+00 TO STA 2208+00

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-01-PW	MCHENRY	1751	597
				CONTRACT NO. 61E53
ILLINOIS FED. AID PROJECT				



- NOTES:**
- SEE SHEET NO. 569 FOR LEGEND AND GENERAL NOTES
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL ROADWAY LIGHTING WITHIN THE PROJECT LIMITS FOR THE DURATION OF THE PROJECT. ANY DAMAGE INCURRED DURING CONSTRUCTION SHALL BE PROMPTLY REPAIRED SO SERVICE IS NOT DISRUPTED. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE EXISTING CONDITIONS.
 - THE LOCATION OF THE TEMPORARY WOOD POLES SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION
 - TEMPORARY LIGHTING UNITS SHALL BE OPERATIONAL BEFORE EXISTING POLES ARE REMOVED
 - TEMPORARY LIGHTING SHALL NOT BE REMOVED UNTIL THE NEXT STAGE OF TEMPORARY LIGHTING OR PERMANENT LIGHTING IS INSTALLED AND OPERATIONAL.
 - THE COST TO PROVIDE TEMPORARY CONNECTIONS TO EXISTING CONTROLLERS AND TEMPORARY LIGHTING UNITS SHALL BE INCLUDED IN THE BID UNIT PRICE FOR AERIAL CABLE.
 - FOR TEMPORARY LIGHT POLE AND INSTALLATION OF AERIAL CABLE DETAILS SEE SHEETS NO. 597, 598 AND 599.
 - EXISTING LIGHTING CONTROLLER TO BE USED FOR TEMPORARY LIGHTING. USE EXISTING SERVICE CONNECTIONS, EXISTING CONTROLLER USED FOR TEMPORARY SERVICE TO BE REMOVED ONCE THE NEW CONTROLLER IS INSTALLED AND OPERATIONAL.



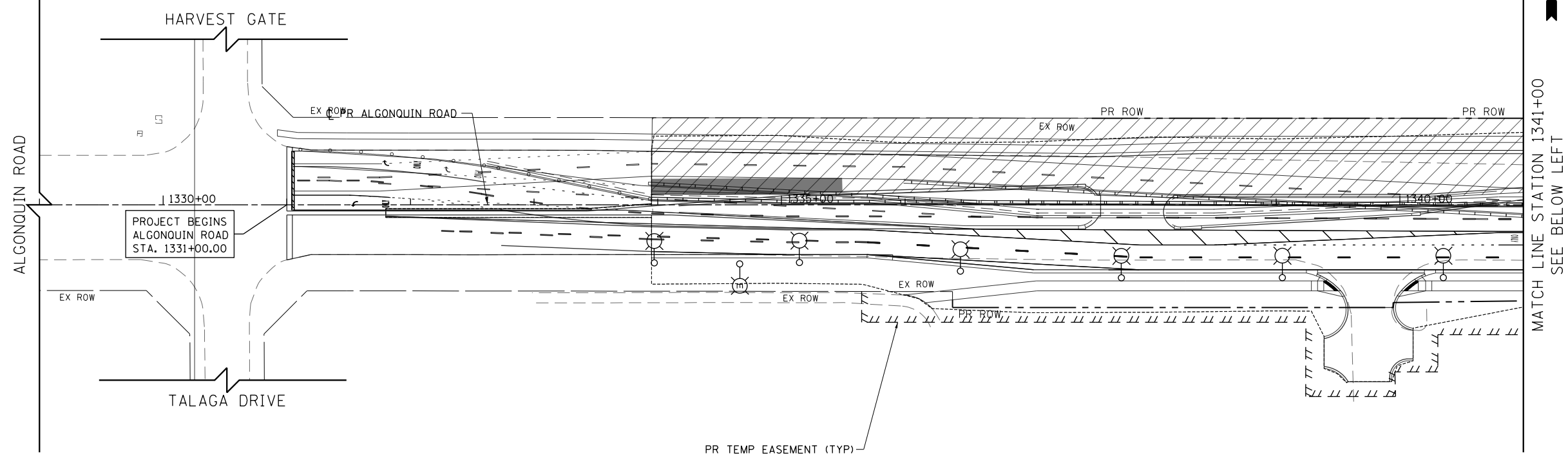
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

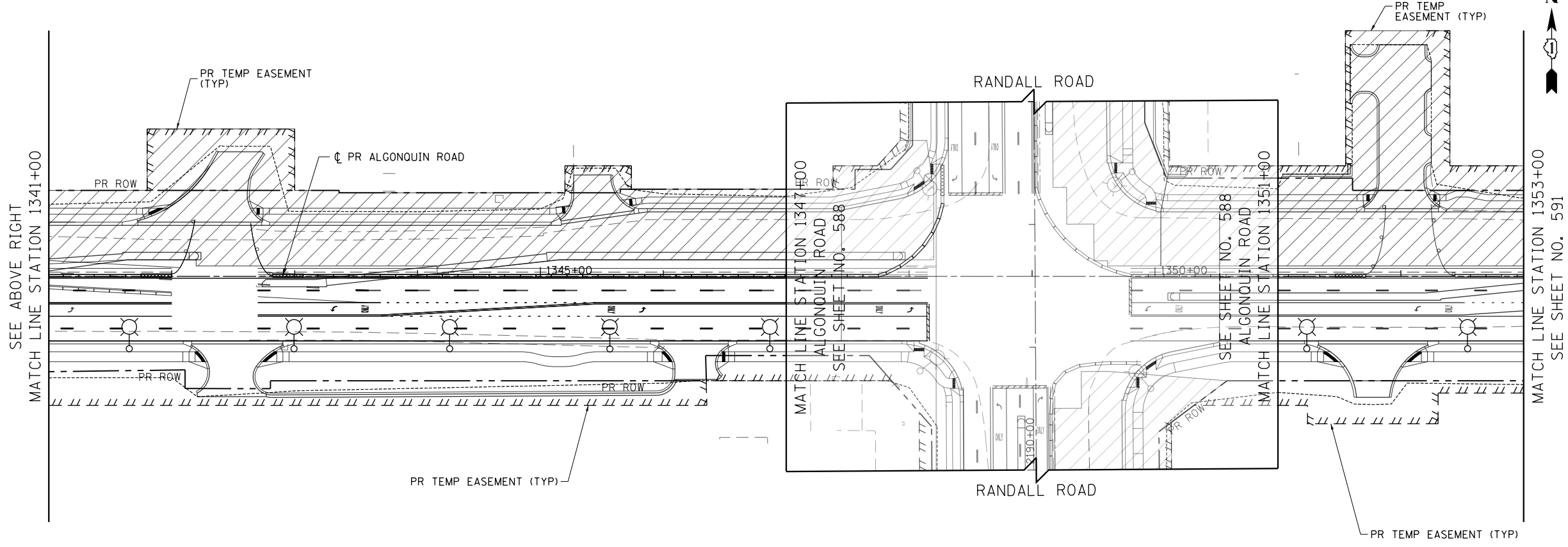
**RANDALL ROAD EXISTING LIGHTING REMOVAL & TEMPORARY LIGHTING
STAGE 2**

SCALE: 1" = 50' SHEET 4 OF 9 SHEETS STA 2208+00 TO STA 2232+00

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-01-PW	MCHENRY	1751	598
			CONTRACT NO. 61E53	
ILLINOIS FED. AID PROJECT				



MATCH LINE STATION 1341+00
SEE BELOW LEFT



MATCH LINE STATION 1353+00
SEE SHEET NO. 591

- NOTES:**
1. SEE SHEET NO. 569 FOR LEGEND AND GENERAL NOTES
 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL ROADWAY LIGHTING WITHIN THE PROJECT LIMITS FOR THE DURATION OF THE PROJECT. ANY DAMAGE INCURRED DURING CONSTRUCTION SHALL BE PROMPTLY REPAIRED SO SERVICE IS NOT DISRUPTED. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE EXISTING CONDITIONS.
 3. THE LOCATION OF THE TEMPORARY WOOD POLES SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION
 4. TEMPORARY LIGHTING UNITS SHALL BE OPERATIONAL BEFORE EXISTING POLES ARE REMOVED
 5. TEMPORARY LIGHTING SHALL NOT BE REMOVED UNTIL THE NEXT STAGE OF TEMPORARY LIGHTING OR PERMANENT LIGHTING IS INSTALLED AND OPERATIONAL.
 6. THE COST TO PROVIDE TEMPORARY CONNECTIONS TO EXISTING CONTROLLERS AND TEMPORARY LIGHTING UNITS SHALL BE INCLUDED IN THE BID UNIT PRICE FOR AERIAL CABLE.
 7. FOR TEMPORARY LIGHT POLE AND INSTALLATION OF AERIAL CABLE DETAILS SEE SHEETS NO. 597, 598 AND 599.
 8. EXISTING LIGHTING CONTROLLER TO BE USED FOR TEMPORARY LIGHTING. USE EXISTING SERVICE CONNECTIONS, EXISTING CONTROLLER USED FOR TEMPORARY SERVICE TO BE REMOVED ONCE THE NEW CONTROLLER IS INSTALLED AND OPERATIONAL.

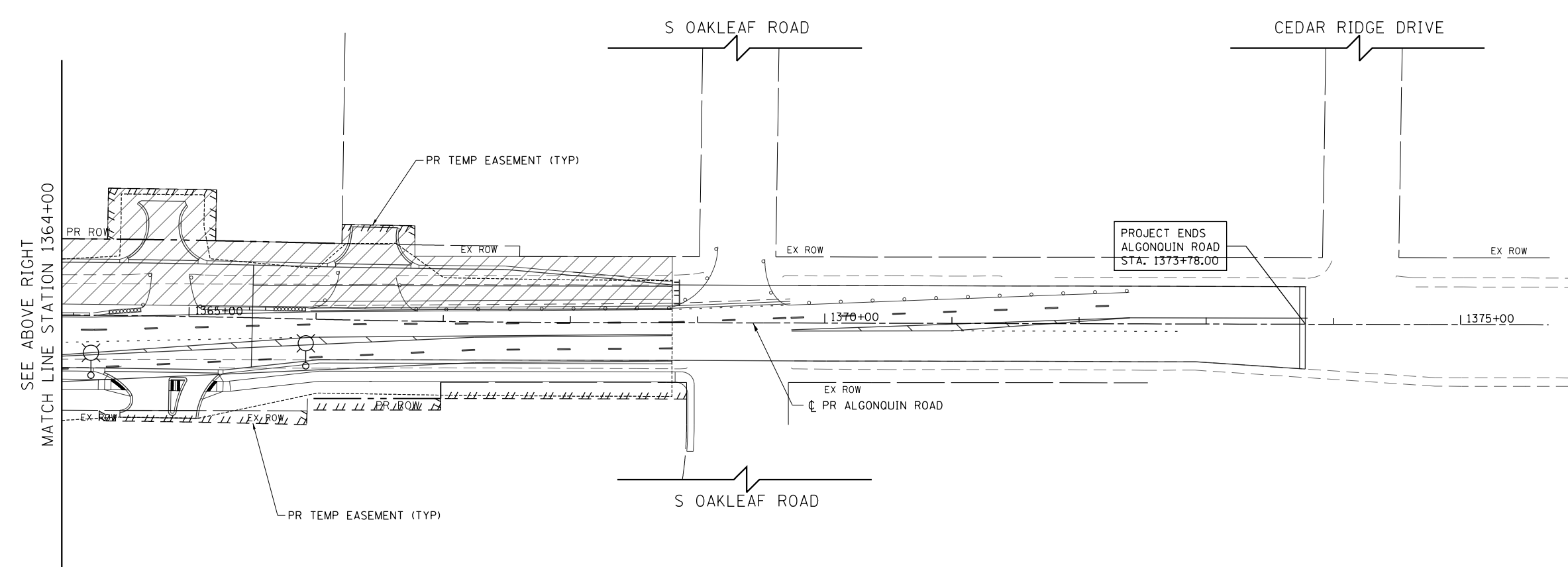
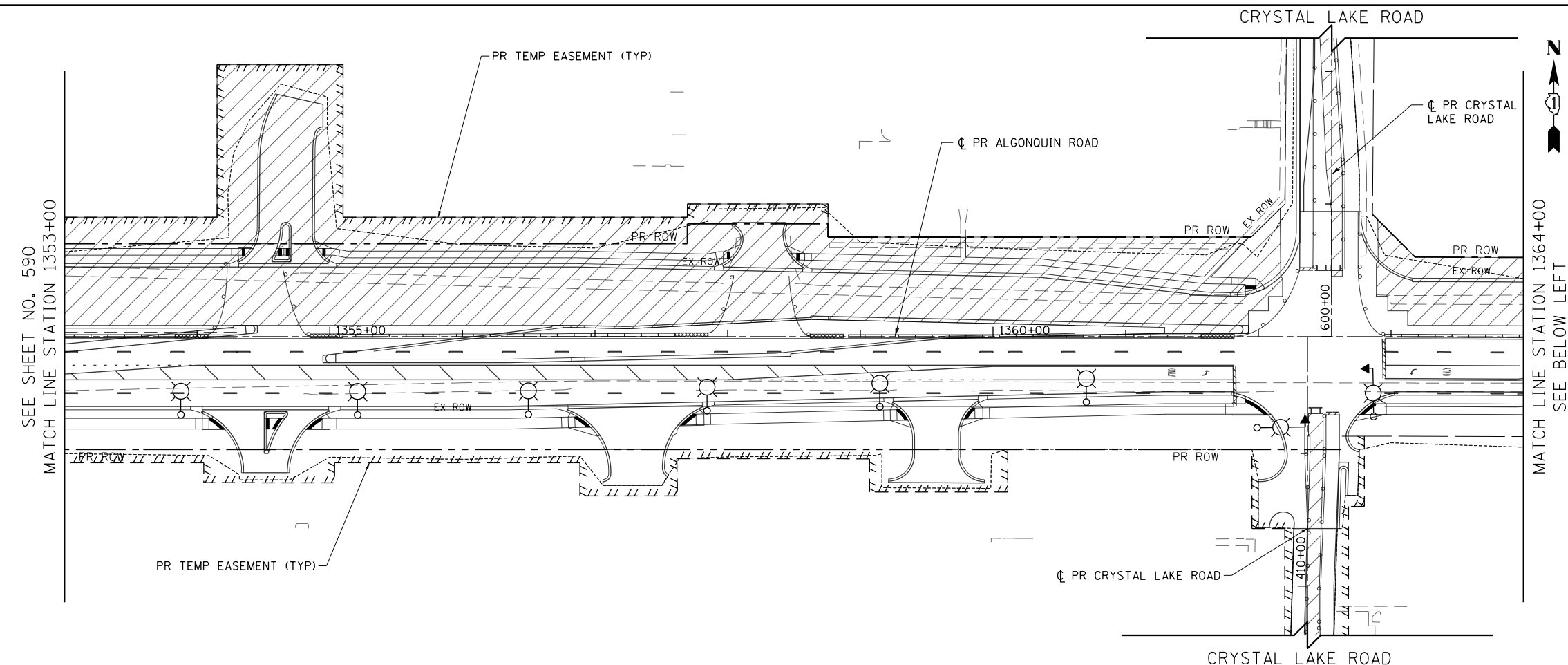


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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ALGONQUIN ROAD EXISTING LIGHTING REMOVAL & TEMPORARY LIGHTING	
STAGE 2	
SCALE: 1" = 50'	SHEET 5 OF 9 SHEETS STA 1329+00 TO STA 1353+00

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-01-PW	MCHENRY	1751	599
CONTRACT NO.			61E53	
ILLINOIS FED. AID PROJECT				



- NOTES:**
- SEE SHEET NO. 569 FOR LEGEND AND GENERAL NOTES
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL ROADWAY LIGHTING WITHIN THE PROJECT LIMITS FOR THE DURATION OF THE PROJECT. ANY DAMAGE INCURRED DURING CONSTRUCTION SHALL BE PROMPTLY REPAIRED SO SERVICE IS NOT DISRUPTED. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE EXISTING CONDITIONS.
 - THE LOCATION OF THE TEMPORARY WOOD POLES SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION
 - TEMPORARY LIGHTING UNITS SHALL BE OPERATIONAL BEFORE EXISTING POLES ARE REMOVED
 - TEMPORARY LIGHTING SHALL NOT BE REMOVED UNTIL THE NEXT STAGE OF TEMPORARY LIGHTING OR PERMANENT LIGHTING IS INSTALLED AND OPERATIONAL.
 - THE COST TO PROVIDE TEMPORARY CONNECTIONS TO EXISTING CONTROLLERS AND TEMPORARY LIGHTING UNITS SHALL BE INCLUDED IN THE BID UNIT PRICE FOR AERIAL CABLE.
 - FOR TEMPORARY LIGHT POLE AND INSTALLATION OF AERIAL CABLE DETAILS SEE SHEETS NO. 597, 598 AND 599.
 - EXISTING LIGHTING CONTROLLER TO BE USED FOR TEMPORARY LIGHTING. USE EXISTING SERVICE CONNECTIONS, EXISTING CONTROLLER USED FOR TEMPORARY SERVICE TO BE REMOVED ONCE THE NEW CONTROLLER IS INSTALLED AND OPERATIONAL.



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ALGONQUIN ROAD EXISTING LIGHTING REMOVAL & TEMPORARY LIGHTING		FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STAGE 2		336	06-00329-01-PW	MCHENRY	1751	600
SCALE: 1" = 50'		SHEET 6 OF 9 SHEETS		STA 1353+00 TO STA 1376+00		CONTRACT NO. 61E53

ILLINOIS FED. AID PROJECT	
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