

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
360	16-00477-00-SP	KANE	80	1
		RUNDS	CONTRACT NO. 61F13	

FOR INDEX OF SHEETS, SEE SHEET NO. 2  
 FOR INDEX OF HIGHWAY STANDARDS, SEE SHEET NO. 2

01-18-2019 LETTING ITEM 113

IMPROVEMENTS LOCATED IN THE CITY OF BATAVIA, GENEVA TOWNSHIP, AND BATAVIA TOWNSHIP

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

PLANS FOR PROPOSED  
 FEDERAL AID HIGHWAY

FAP ROUTE 360 (KIRK ROAD)  
 ILL ROUTE 56 (BUTTERFIELD ROAD) TO CHERRY LANE  
 SECTION: 16-00477-00-SP  
 PROJECT: ZXJZ(629)  
 HIGHWAY SAFETY IMPROVEMENT PROJECT (HSIP)  
 KANE COUNTY



FEDERAL AID PROGRAM ENGINEERING: CARMEN E. RAMOS, SCHAUMBURG, IL

TRAFFIC DATA:

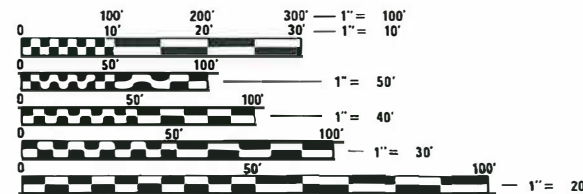
KIRK ROAD:

OTHER PRINCIPAL ARTERIAL (SRA)  
 CLASS II TRUCK ROUTE  
 DESIGN SPEED = 50 MPH  
 POSTED SPEED = 45 MPH

BUTTERFIELD RD TO PINE ST:  
 ADT (2014) = 36,100

PINE ST TO FABYAN PKWY:  
 ADT (2014) = 35,000

FABYAN PKWY TO CHERRY LN:  
 ADT (2014) = 25,500



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

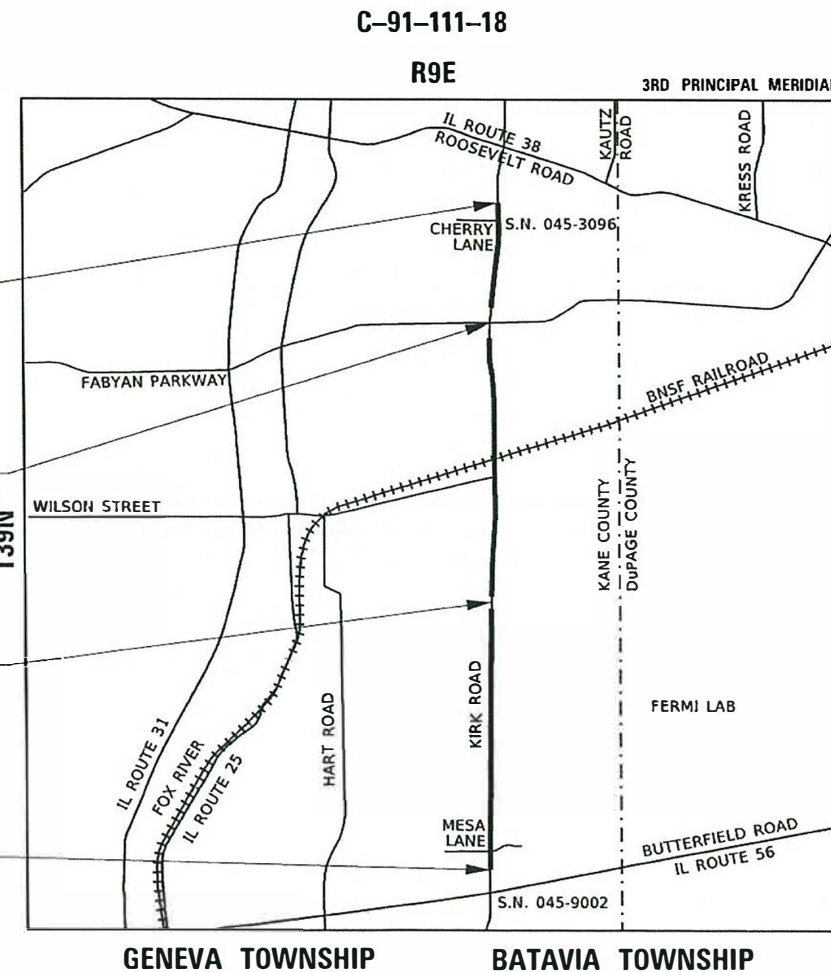
J.U.L.I.E.  
 JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
 1-800-892-0123  
 OR 811

END IMPROVEMENT  
 STA 346+00

OMISSION STA 288+12  
 TO STA 318+42

OMISSION STA 192+00  
 TO STA 200+40

BEGIN IMPROVEMENT  
 STA 106+00



**PATRICK ENGINEERING**  
 PATRICK ENGINEERING INC.  
 4970 VARSITY DRIVE  
 LISLE, IL 60532  
 patrickengineering.com

GROSS LENGTH = 24,000 FT. = 4.545 MILE  
 NET LENGTH = 20,130 FT. = 3.813 MILE

CONTRACT NO. 61F13

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

APPROVED OCTOBER 5, 2018  
  
 KANE COUNTY ENGINEER

PASSED NOVEMBER 13, 2018  
  
 DISTRICT ONE ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID  
 BASED ON LIMITED  
 REVIEW NOVEMBER 18, 2018  
  
 REGIONAL ENGINEER

PRINTED BY THE AUTHORITY  
 OF THE STATE OF ILLINOIS

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IDOT DISTRICT 1 DETAILS	
STANDARD NO.	DESCRIPTION
BD-01	DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W. AND FACE OF CURB & EDGE OF SHOULDER $\geq 15'$ (4.5M)
BD-55	RUMBLE STRIPES FOR CENTERLINE, NON-FREEWAY (MODIFIED)
BE-235	COMBINATION LIGHTING CONTROLLER DETAIL
BE-240	COMBINATION LIGHTING TRAFFIC SIGNAL SCHEMATIC
BE-305	LIGHT POLE FOUNDATION, METAL
BE-702	MISCELLANEOUS ELECTRICAL DETAILS, SHEET A - (CABLE SPLICE, POLE WIRING, TRENCH DETAIL)
TC-10	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
TC-11	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKINGS (SNOW-PLOW RESISTANT)
TC-13	DISTRICT ONE TYPICAL PAVEMENT MARKINGS
TC-14	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)
TC-16	SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS
TC-22	ARTERIAL ROAD INFORMATION SIGN
TC-26	DRIVEWAY ENTRANCE SIGNING
TS-05	STANDARD TRAFFIC SIGNAL DESIGN DETAILS
TS-07	DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING

IDOT HIGHWAY STANDARDS	
STANDARD NO.	DESCRIPTION
000001-07	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
424001-11	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424011-04	CORNER PARALLEL CURB RAMPS FOR SIDEWALKS
424026-03	ENTRANCE/ALLEY PEDESTRIAN CROSSINGS
606001-07	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701101-05	OFF-RD OPERATIONS, MULTILANE, 15' TO 24' FROM PAVEMENT EDGE
701421-08	LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY, FOR SPEEDS $\geq 45$ MPH TO 55 MPH
701426-09	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS $\geq 45$ MPH
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-08	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
780001-05	TYPICAL PAVEMENT MARKINGS
830011-03	LIGHT POLE STEEL MAST ARM
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS & PHASE SEQUENCES
873001-02	TRAFFIC SIGNAL GROUND AND BOND
877001-07	STEEL MAST ARM ASSEMBLY AND POLE 16' THRU 55'
877006-06	STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS
877011-10	STEEL COMB. MAST ARM ASSEMBLY AND POLE 16' THRU 55'
877012-07	STEEL COMB. MAST ARM ASSEMBLY AND POLE 56' THRU 75'
878001-10	CONCRETE FOUNDATION DETAILS
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS

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1. THE EXACT LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE THE INSTALLATION OF ANY COMPONENTS OF THE TRAFFIC SIGNAL SYSTEM. FOR THE LOCATION OF THE UTILITIES, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT 800-892-0123 OR 811. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE EXISTING TRAFFIC SIGNAL CABLES, CONDUITS, AND ROADWAY LIGHTING SYSTEM CABLES REGARDLESS OF MAINTENANCE RESPONSIBILITY OF THE SYSTEM NEEDING TO BE LOCATED. FOR FIELD LOCATIONS, BURIED ELECTRIC LINES, TELEPHONE, AND GAS FACILITIES (48 HOUR NOTIFICATION IS REQUIRED).
2. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, THE CITY OF BATAVIA, THE CITY OF GENEVA, AND KANE COUNTY DIVISION OF TRANSPORTATION (KDOT).
3. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON KDOT PROPERTY WITHOUT WRITTEN PERMISSION FROM KDOT.
4. WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR, OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED EACH LOCATION.
5. THE LOCATIONS OF EXISTING UTILITIES SHOWN ON THE PLANS ARE BASED ON THE BEST INFORMATION AVAILABLE, BUT THEY ARE NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THEIR EXACT LOCATIONS FROM THE UTILITY COMPANIES AND BY FIELD INSPECTION.
6. THE CONTRACTOR SHALL TAKE CARE IN REMOVING OR EXCAVATING NEAR ALL EXISTING ITEMS WHICH WILL REMAIN, INCLUDING BUT NOT LIMITED TO, TREES WHICH ARE NOT MARKED FOR REMOVAL SO AS NOT TO CAUSE INJURY TO THE ROOT SYSTEM OR TRUNKS. MAJOR ROOTS OF A TREE THAT ARE TO REMAIN IN PLACE EXTENDING INTO THE EXCAVATION AREAS AT AN ELEVATION THAT WOULD INTERFERE WITH ANY PORTION OF THE PLANNED CONSTRUCTION SHALL BE SEVERED AT A POINT IMMEDIATELY OUTSIDE OF THE EXCAVATION AREA IN A MANNER THAT WILL CAUSE THE LEAST AMOUNT OF SYSTEM DAMAGE TO THE REMAINING TREE STRUCTURE. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR.
7. THIS CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS, AS REQUIRED, PRIOR TO COMMENCING WITH CONSTRUCTION. ANY COST ASSOCIATED WITH OBTAINING THESE PERMITS SHALL BE CONSIDERED INCLUDED IN THE COST OF THE CONTRACT UNIT PRICE FOR THE ITEMS BEING INSTALLED.
8. POLLUTION CONTROL: THE CONTRACTOR SHALL BE REQUIRED TO COMPLY WITH STATE REGULATIONS REGARDING AIR, WATER, AND NOISE POLLUTION.
9. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING DRAINAGE THROUGHOUT THE CONSTRUCTION OF THIS PROJECT.
10. ALL REFERENCES IN THE HIGHWAY STANDARDS AND THE STANDARD SPECIFICATIONS FOR REINFORCEMENT, DOWEL BARS AND TIE BARS IN PAVEMENT, SHOULDERS, CURB, GUTTER, COMBINATION CURB AND GUTTER AND MEDIAN, AND CHAIR SUPPORTS FOR JPCP PAVEMENT, SHALL BE EPOXY COATED, UNLESS NOTED ON THE PLAN.
11. NO WORK SHALL COMMENCE UNTIL TRAFFIC CONTROL REQUIREMENTS ARE MET.
12. ALL SIGN PANELS, MOUNTED ON SIGNAL POLES OR MAST ARMS, PROPOSED OR RELOCATED, AND OTHER SIGN PANELS SPECIFIED BY THE ENGINEER, SHALL INCLUDE SUPPORTING CHANNELS INSTALLED ON THE BACK SIDE OF THE SIGN IN ACCORDANCE WITH HIGHWAY STANDARD 720001.
13. THE CONTRACTOR SHALL INSPECT ALL SIGNAL CABINETS PRIOR TO WORK TO ADEQUATELY DETERMINE THE REQUIRED MODIFICATIONS THAT WILL BE NEEDED AT EACH INTERSECTION, INCLUDING ASCERTAINING BOTH EXISTING SIGNAL CABINET INFORMATION/DRAWINGS AND PROPOSED SIGNAL PHASING INFORMATION TO BE SHARED WITH ALL VENDORS AND CONTRACTORS PERFORMING SIGNAL CONTROLLER AND CABINET MODIFICATIONS.

14. DURING CONSTRUCTION OPERATIONS, WHENEVER LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF GUTTER, DRAINAGE STRUCTURES, DITCHES, ETC., SUCH THAT THE NATURAL FLOW LINE OF WATER IS OBSTRUCTED, THE LOOSE MATERIAL SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF THE CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES AND FLOW LINES SHALL BE FREE FROM DIRT AND DEBRIS. THE CONTRACTOR'S FAILURE TO PROVIDE THE ABOVE WILL PRECLUDE ANY POSSIBLE ADDED COMPENSATION REQUESTED DUE TO DELAYS OR UNSUITABLE MATERIAL CREATED AS A RESULT THERE OF.
15. TWO WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS, THE ENGINEER SHALL CONTACT RAY JOHNSON, TRAFFIC/UTILITY COORDINATOR FOR KDOT, AT 630-406-7356.
14. ALL TREE PROTECTION, TREE REMOVAL, PRUNING AND ROOT PRUNING SHALL BE COMPLETED BEFORE CONSTRUCTION OPERATIONS COMMENCE IN ANY AREA. AT NO TIME SHALL THE CONTRACTOR PRUNE OR REMOVE ANY TREES UNLESS SPECIFICALLY DIRECTED BY THE ENGINEER.
15. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO COORDINATE WITH THE BNSF RAILROAD WHENEVER CONSTRUCTION ACTIVITY IS WITHIN 25 FEET OF THE RAILROAD ROW. THE CONTRACTOR SHALL RETAIN FLAGMEN EMPLOYED AND DESIGNATED BY THE BNSF RAILROAD TO MONITOR ON-COMING TRAIN TRAFFIC, AND ADVISE CONTRACTOR PERSONNEL WHEN ACTIVITY ON OR NEAR THE RAILROAD RIGHT-OF-WAY MAY PROCEED. THIS ITEM WILL BE PAID FOR ACCORDING TO ARTICLE 107.12 AND WILL BE REIMBURSED ACCORDING TO ARTICLE 109.05.
16. THE CONTRACTOR SHALL COORDINATE WITH LOCAL AUTHORITIES AND OBSERVE LOCAL NOISE ORDINANCES FOR ALL CONSTRUCTION ACTIVITIES.
17. THE CONTRACTOR SHALL NOTE THAT PROJECTS WITH CONTRACT NUMBERS 61E75 AND 61E97; PROJECTS WITH SECTION NUMBERS 18-00500-00-RS, 18-00502-00-BT, AND 12-00192-04-BR; AND PROJECT WITH PROJECT NUMBER PLTA-2018-0168 ARE DIRECTLY ADJACENT AND CONNECT TO THIS CONTRACT AND WILL BE ACTIVE DURING THIS PROJECT. THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACTIVITIES WITH THE ADJACENT CONTRACTS.
18. ALL MAST ARM MOUNTED SIGNAL HEADS ARE TO BE ATTACHED 2'-0" FROM THE END OF THE MAST ARM UNLESS OTHERWISE NOTED.
19. NEW BACKPLATES FOR EXISTING SIGNAL HEADS SHALL CLOSELY CONFORM TO THE SIGNAL HEAD SUCH THAT THERE ARE NO GAPS BETWEEN THE BACKPLATE AND THE SIGNAL HEAD. IF A TRAFFIC SIGNAL HAS NEW BACKPLATES, AS WELL AS EXISTING TO REMAIN BACKPLATES, THE NEW BACKPLATES SHALL CLOSELY MATCH THE SAME STYLE.
20. ALL NEW SIGNAL HEADS SHALL MATCH THE COLOR OF THE EXISTING REMAINING TRAFFIC SIGNAL HEADS. IF A TRAFFIC SIGNAL IS TO GET ALL NEW SIGNAL HEADS, THE COLOR OF THE SIGNAL HEADS SHOULD BE BLACK.
21. ALL PEDESTRIAN PUSH BUTTONS AND ASSOCIATED SIGN ASSEMBLIES SHALL BE PARALLEL TO THE CROSSWALK AND BE A MAXIMUM OF 10 INCHES FROM THE EDGE OF THE SIDEWALK PATH.
22. THE RED SECTIONS OF THE SIGNAL HEADS SHARING THE SAME MAST ARM SHALL BE LEVEL WITH ONE ANOTHER AND MAINTAIN A 17' MINIMUM CLEARANCE FROM THE HIGHEST POINT OF THE ROADWAY.
23. THE PROPOSED MAST ARM MOUNTED TRAFFIC SIGNAL HEADS SHALL BE MOUNTED DIRECTLY OVER THE CENTER OF THEIR RESPECTIVE LANES, UNLESS OTHERWISE DIRECTED.
24. THE USE OF STRAW BALES SHALL BE PROHIBITED FOR INLET PIPE AND PROTECTION.

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	PATRICK ENGINEERING INC. 4970 VARSITY DRIVE LISLE, IL 60532 patrickengineering.com	USER NAME = yradiiguez DESIGNED - YMR DRAWN - YMR CHECKED - JJC DATE - 11/14/2018	REVISED - REVISED - REVISED - REVISED -	<b>STATE OF ILLINOIS          DEPARTMENT OF TRANSPORTATION</b>	<b>GENERAL NOTES          KIRK ROAD</b>	F.A.P. RTE. 360 SECTION 16-00477-00-5P COUNTY KANE TOTAL SHEETS 80 SHEET NO. 3 CONTRACT NO. 61F13	ILLINOIS FED. AID PROJECT
	PLOT SCALE = 100.0000' / in. PLOT DATE = 11/14/2018		SCALE: 1" = 50'    SHEET 3 OF SHEETS    STA.    TO STA.				

S.P.	CODE NO.	ITEM	UNIT	TOTAL QUANTITY
#	20200100	EARTH EXCAVATION	CU YD	16
#	21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	62
	25000400	NITROGEN FERTILIZER NUTRIENT	POUND	2
	25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	2
	25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	2
	25200110	SODDING, SALT TOLERANT	SQ YD	68
#	28000500	INLET AND PIPE PROTECTION	EACH	53
#	42001300	PROTECTIVE COAT	SQ YD	263
#	42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SQ YD	64
#	42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	1,215
#	42400800	DETECTABLE WARNINGS	SQ FT	142
#	44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	86
#	44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	178
#	44000600	SIDEWALK REMOVAL	SQ FT	846
#	60255500	MANHOLES TO BE ADJUSTED	EACH	1
#	60260100	INLETS TO BE ADJUSTED	EACH	3
#	60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	62
#	60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	204
#	66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	5
#	66900530	SOIL DISPOSAL ANALYSIS	EACH	1
#	66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1
#	66901002	ON-SITE MONITORING OF REGULATED SUBSTANCES	CAL DAYS	2
#	66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1
	67100100	MOBILIZATION	L SUM	1
	70100310	TRAFFIC CONTROL AND PROTECTION, STANDARD 701421	L SUM	1
	70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1
	70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1
	70300100	SHORT TERM PAVEMENT MARKING	FOOT	9,950
	70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	3,320
#	72000100	SIGN PANEL - TYPE 1	SQ FT	61
#	78009000	MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	1,446
#	78009006	MODIFIED URETHANE PAVEMENT MARKING - LINE 6"	FOOT	77,350
#	78009008	MODIFIED URETHANE PAVEMENT MARKING - LINE 8"	FOOT	230
#	78009012	MODIFIED URETHANE PAVEMENT MARKING - LINE 12"	FOOT	2,230

# INDICATES SPECIALTY ITEMS

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PLOT SCALE = 100.0000 ' / in.	DRAWN - YMR	REVISED -
PLOT DATE = 11/14/2018	CHECKED - JJC	REVISED -
	DATE - 11/14/2018	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES  
KIRK ROAD**

SHEET SOQ-01 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
360	16-00477-00-SP	KANE	80	4
CONTRACT NO. 61F13				
ILLINOIS FED. AID PROJECT				



S.P.	CODE NO.	ITEM	UNIT	TOTAL QUANTITY
#	78009024	MODIFIED URETHANE PAVEMENT MARKING - LINE 24"	FOOT	710
*	81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	212
*	81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	235
*	81028360	UNDERGROUND CONDUIT, PVC, 2 1/2" DIA.	FOOT	938
*	81702450	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 10	FOOT	2,095
*	83060720	LIGHT POLE, GALVANIZED STEEL, 60 FT. M.H., 8 FT. MAST ARM	EACH	2
*	85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	3
*	87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1,982
*	87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	823.0
*	87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	7,370.0
*	87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	3,935
*	87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	1,217
*	87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1,217
*	87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	8
*	87700140	STEEL MAST ARM ASSEMBLY AND POLE, 20 FT.	EACH	1
*	87700210	STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	1
*	87700240	STEEL MAST ARM ASSEMBLY AND POLE, 40 FT.	EACH	2
*	87700270	STEEL MAST ARM ASSEMBLY AND POLE, 46 FT.	EACH	2
*	87702726	STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 48 FT. AND 26 FT.	EACH	1
*	87702960	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 46 FT.	EACH	1
*	87702970	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 48 FT.	EACH	2
*	87703030	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 60 FT.	EACH	2
*	87704554	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 54 FT. AND 46 FT.	EACH	1
*	87800100	CONCRETE FOUNDATION, TYPE A	FOOT	28
*	87800400	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	10
*	87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	119
*	87800420	CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	42
*	87900100	DRILL EXISTING FOUNDATION	EACH	3
*	88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	33
*	88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	19
*	88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
*	88200100	TRAFFIC SIGNAL BACKPLATE	EACH	57
*	88600600	DETECTOR LOOP REPLACEMENT	FOOT	74
*	88800100	PEDESTRIAN PUSH-BUTTON	EACH	2

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PLOT SCALE = 100.0000 ' / in.	DRAWN - YMR	REVISED -
PLOT DATE = 11/14/2018	CHECKED - JJC	REVISED -
	DATE - 11/14/2018	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**  
**KIRK ROAD**

SHEET SOQ-02 OF 3 SHEETS STA. TO STA.

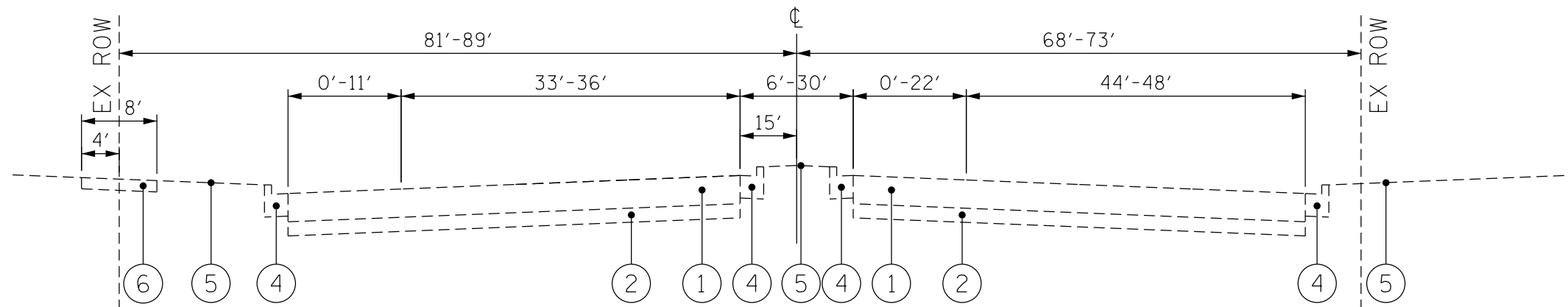
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
360	16-00477-00-SP	KANE	80	5
CONTRACT NO. 61F13				
ILLINOIS FED. AID PROJECT				

S.P.	CODE NO.	ITEM	UNIT	TOTAL QUANTITY
*	89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
*	89500200	RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	1
*	89500400	RELOCATE EXISTING PEDESTRIAN PUSH-BUTTON	EACH	6
*	89501420	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, COMPLETE	EACH	8
*	89502210	MODIFY EXISTING CONTROLLER CABINET	EACH	3
	89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	10,380
*	89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	3
	89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	12
*	X0320028	RELOCATE EXISTING CCTV CAMERAS	LSUM	2
*	X0320050	CONSTRUCTION LAYOUT (SPECIAL)	LSUM	1
*	X0322765	RELOCATE VIDEO VEHICLE DETECTION SYSTEM	EACH	1
*	X0325479	RELOCATE EXISTING ITS EQUIPMENT TYPE A	EACH	1
*	X0326885	VIDEO DETECTION SYSTEM	EACH	1
#	X0326898	CENTER LINE - RUMBLE STRIP - 16"	FOOT	18,186
#	X0327036	BIKE PATH REMOVAL	SQ YD	46
#	X0327693	HIGH FRICTION SURFACE TREATMENT	SQ YD	3,100
*	X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	15,520
*	X1400102	OUTDOOR RATED NETWORK CABLE	FOOT	352
*	X1400145	RADAR SPEED SIGN	EACH	7
#	X4510050	HIGH FRICTION SURFACE TREATMENT CRACK FILLING	FOOT	2,500
#	X7810300	RECESSED REFLECTIVE PAVEMENT MARKER	EACH	1,799
#	X7830074	GROOVING FOR RECESSED PAVEMENT MARKING 7"	FOOT	34,640
#	X7830076	GROOVING FOR RECESSED PAVEMENT MARKING 9"	FOOT	90
*	80400200	ELECTRIC UTILITY SERVICE CONNECTION	LSUM	1
*	X8360370	LIGHT POLE FOUNDATION METAL, 15" BOLT CIRCLE, 10" X 10"	EACH	2
*	X8760055	PEDESTRIAN PUSH-BUTTON POST, TYPE A	EACH	6
*	X8211125	LUMINAIRE, LED, HORIZONTAL MOUNT, SPECIAL	EACH	2
*	X8211190	LUMINAIRE, LED, HORIZONTAL MOUNT, 190 WATT (SPECIAL)	EACH	6
*	Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	163
Δ	Z0076600	TRAINEES	Hour	500
*	Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	LSUM	1
Δ	Z0076600	TRAINEES TRAINING PROGRAM GRADUATE	Hour	500

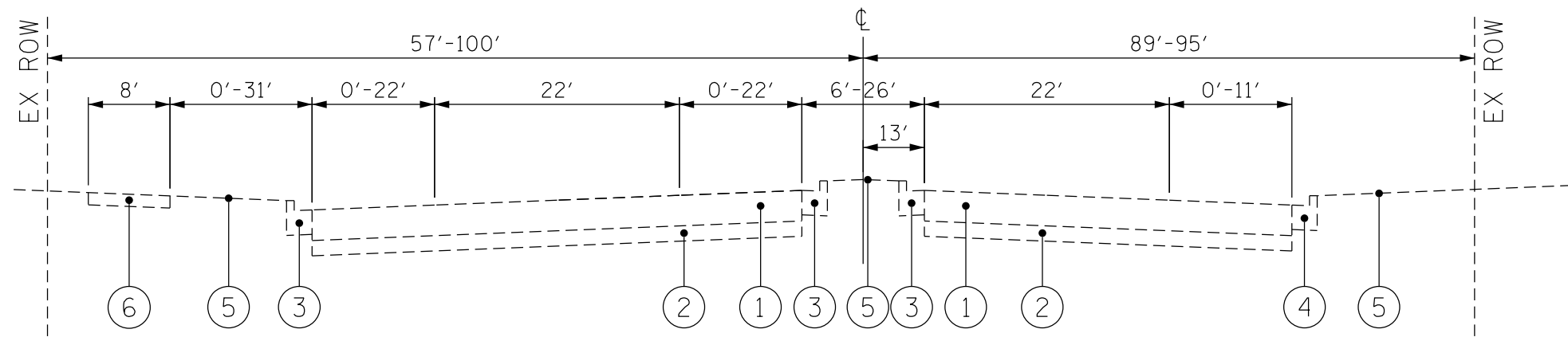
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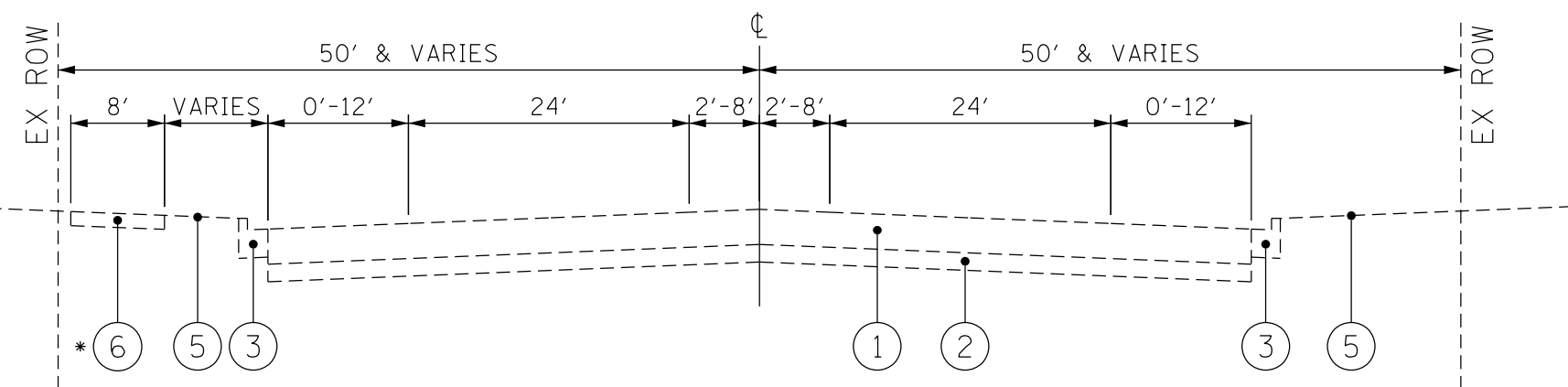
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PLOT SCALE = 100.0000' / in.	CHECKED - JJC	REVISED -		SHEET 500-03 OF 3 SHEETS STA. TO STA.		CONTRACT NO. 61F13					
PLOT DATE = 11/14/2018	DATE - 11/14/2018	REVISED -		ILLINOIS FED. AID PROJECT							



**EXISTING TYPICAL SECTION**  
STA. 106+00.00 TO STA. 115+00.00



**EXISTING TYPICAL SECTION**  
STA. 115+00.00 TO 127+72.28



**EXISTING TYPICAL SECTION**  
STA. 127+72.28 TO STA. 192+00.00  
STA. 200+40.00 TO STA. 288+12.00  
STA. 318+42.34 TO STA. 346+00.00  
\*MULTI-USE PATH ENDS STA. 320+00.00

- LEGEND:**
- ① HMA PAVEMENT STRUCTURE
  - ② GRANULAR SUB-BASE MATERIAL
  - ③ COMB CONC CURB & GUTTER, TYPE B-6.12
  - ④ COMB CONC CURB & GUTTER, TYPE B-6.24
  - ⑤ SODDING & TOPSOIL
  - ⑥ HMA MULTI-USE PATH

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USER NAME = yrodiguez  
 PLOT SCALE = 2000.0000' / in.  
 PLOT DATE = 11/14/2018

DESIGNED - YMR  
 DRAWN - YMR  
 CHECKED - JJC  
 DATE - \$DATE

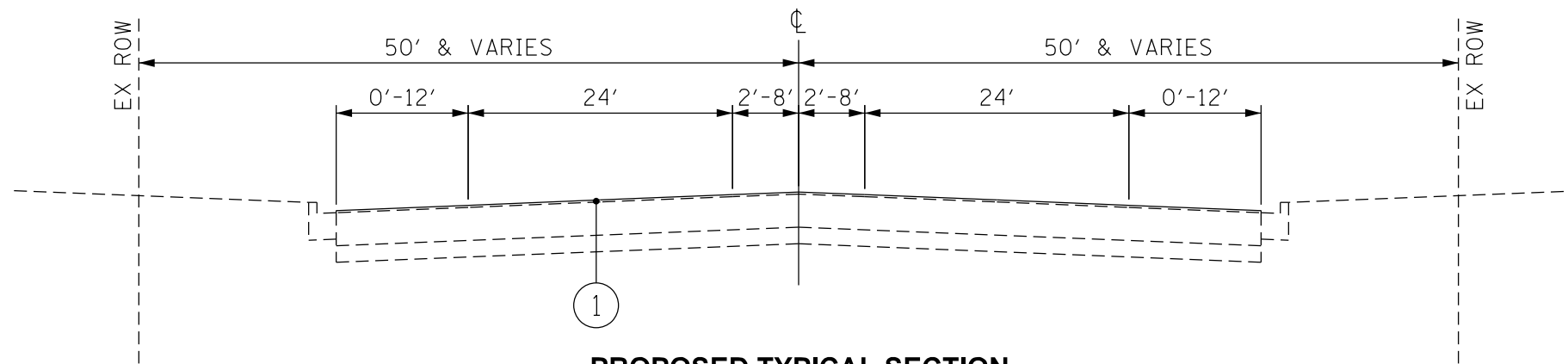
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 REVISED -  
 REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**EXISTING TYPICAL SECTIONS**  
**KIRK ROAD**

SCALE: NTS    SHEET TYP-01 OF 2    SHEETS    STA. 106+00    TO STA. 346+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
360	16-00477-00-5P	KANE	80	7
CONTRACT NO. 61F13				
ILLINOIS FED. AID PROJECT				



**PROPOSED TYPICAL SECTION**

NB: STA. 335+14.41 TO STA. 339+38.85  
 SB: STA. 340+54.15 TO STA. 344+79.24

**LEGEND:**

① HIGH FRICTION SURFACE TREATMENT

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PLOT DATE = 11/14/2018

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DRAWN - YMR	REVISD -
CHECKED - JJC	REVISD -
DATE - \$DATE	REVISD -

DESIGNED - YMR	REVISD -
DRAWN - YMR	REVISD -
CHECKED - JJC	REVISD -
DATE - \$DATE	REVISD -

**STATE OF ILLINOIS  
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**PROPOSED TYPICAL SECTIONS  
 KIRK ROAD**

SCALE: NTS    SHEET TYP-02 OF 2 SHEETS    STA. 335+14.41 TO STA. 344+79.24

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
360	16-00477-00-5P	KANE	80	8
CONTRACT NO. 61F13				
ILLINOIS FED. AID PROJECT				







MATCH LINE STATION 175+00  
SEE SHEET 9

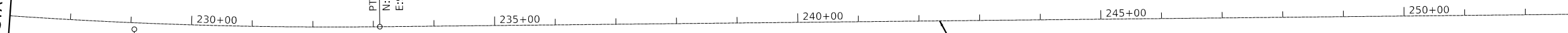
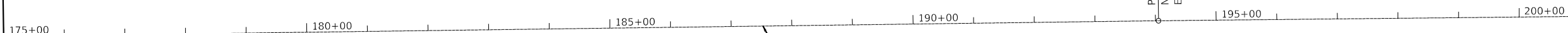
MATCH LINE STATION 201+00  
SEE ABOVE RIGHT

SEE MIDDLE RIGHT  
MATCH LINE STATION 227+00

SEE MIDDLE LEFT  
MATCH LINE STATION 201+00

LEFT MOTION SEE  
MATCH LINE STATION 227+00

SEE SHEET 11  
MATCH LINE STATION 253+00



EX KIRK ROAD

EX KIRK ROAD

EX KIRK ROAD

EXIST. CURVE RDEXCL\_15  
PI STA. = 206+69.68  
 $\Delta = 6^\circ 10' 10''$  (RT)  
D = 0° 52' 53"  
R = 6,500.00'  
T = 350.29'  
L = 699.91'  
E = 9.43'  
P.C. STA. = 203+19.38  
P.T. STA. = 210+19.29

EXIST. CURVE RDEXCL\_18  
PI STA. = 229+06.44  
 $\Delta = 6^\circ 10' 50''$  (LT)  
D = 0° 45' 50"  
R = 7,500.00'  
T = 404.91'  
L = 809.04'  
E = 10.92'  
P.C. STA. = 225+01.53  
P.T. STA. = 233+10.57

PC Sta 203+19.38  
N:1884841.8647  
E:998915.7769

PI Sta 206+69.68  
N:1885192.1394  
E:998912.1351

PT Sta 210+19.29  
N:1885540.7768  
E:998946.1587

PC Sta 225+01.53  
N:1887016.0061  
E:999090.1263

PI Sta 229+06.44  
N:1887419.0020  
E:999129.4547

PT Sta 233+10.57  
N:1887823.8897  
E:999125.1671

PI Sta 194+04.95  
N:1883927.4759  
E:998925.2837

NOTE: ALL CONTROL POINTS WERE SET USING NAVD88 VERTICAL AND ILLINOIS STATE PLAN, EAST ZONE (NAD83) RELATIVE TO THE REGIONAL CORS NETWORK.

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DESIGNED - YMR	REVISED -
DRAWN - YMR	REVISED -
CHECKED - JJC	REVISED -
DATE - \$DATE	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

ALIGNMENT, TIES, AND BENCHMARKS			
KIRK ROAD			
SCALE: 1" = 100'	SHEET ALI-02 OF 4 SHEETS	STA. 175+00	TO STA. 253+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
360	16-00477-00-5P	KANE	80	10
CONTRACT NO. 61F13				
ILLINOIS FED. AID PROJECT				

MATCH LINE STATION 253+00  
SEE SHEET 10

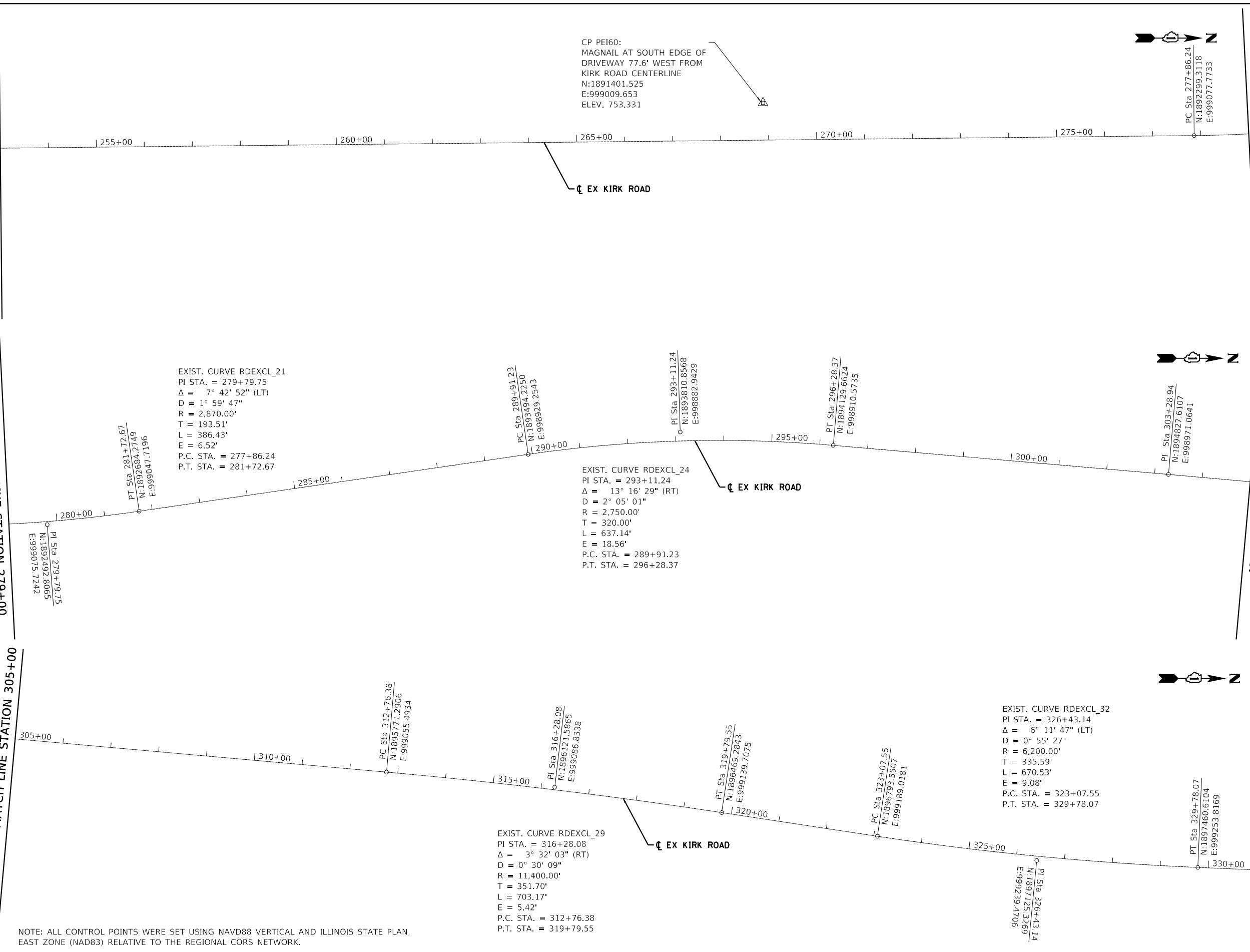
MATCH LINE STATION 279+00  
SEE ABOVE RIGHT

SEE MIDDLE RIGHT  
MATCH LINE STATION 305+00

SEE MIDDLE LEFT  
MATCH LINE STATION 279+00

MATCH LINE STATION 305+00  
SEE BELOW LEFT

MATCH LINE STATION 331+00  
SEE SHEET 12



CP PEI60:  
MAGNAIL AT SOUTH EDGE OF  
DRIVEWAY 77.6' WEST FROM  
KIRK ROAD CENTERLINE  
N:1891401.525  
E:999009.653  
ELEV. 753.331

EXIST. CURVE RDEXCL\_21  
PI STA. = 279+79.75  
Δ = 7° 42' 52" (LT)  
D = 1° 59' 47"  
R = 2,870.00'  
T = 193.51'  
L = 386.43'  
E = 6.52'  
P.C. STA. = 277+86.24  
P.T. STA. = 281+72.67

EXIST. CURVE RDEXCL\_24  
PI STA. = 293+11.24  
Δ = 13° 16' 29" (RT)  
D = 2° 05' 01"  
R = 2,750.00'  
T = 320.00'  
L = 637.14'  
E = 18.56'  
P.C. STA. = 289+91.23  
P.T. STA. = 296+28.37

EXIST. CURVE RDEXCL\_29  
PI STA. = 316+28.08  
Δ = 3° 32' 03" (RT)  
D = 0° 30' 09"  
R = 11,400.00'  
T = 351.70'  
L = 703.17'  
E = 5.42'  
P.C. STA. = 312+76.38  
P.T. STA. = 319+79.55

EXIST. CURVE RDEXCL\_32  
PI STA. = 326+43.14  
Δ = 6° 11' 47" (LT)  
D = 0° 55' 27"  
R = 6,200.00'  
T = 335.59'  
L = 670.53'  
E = 9.08'  
P.C. STA. = 323+07.55  
P.T. STA. = 329+78.07

NOTE: ALL CONTROL POINTS WERE SET USING NAVD88 VERTICAL AND ILLINOIS STATE PLAN, EAST ZONE (NAD83) RELATIVE TO THE REGIONAL CORS NETWORK.

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PLOT DATE = 11/14/2018

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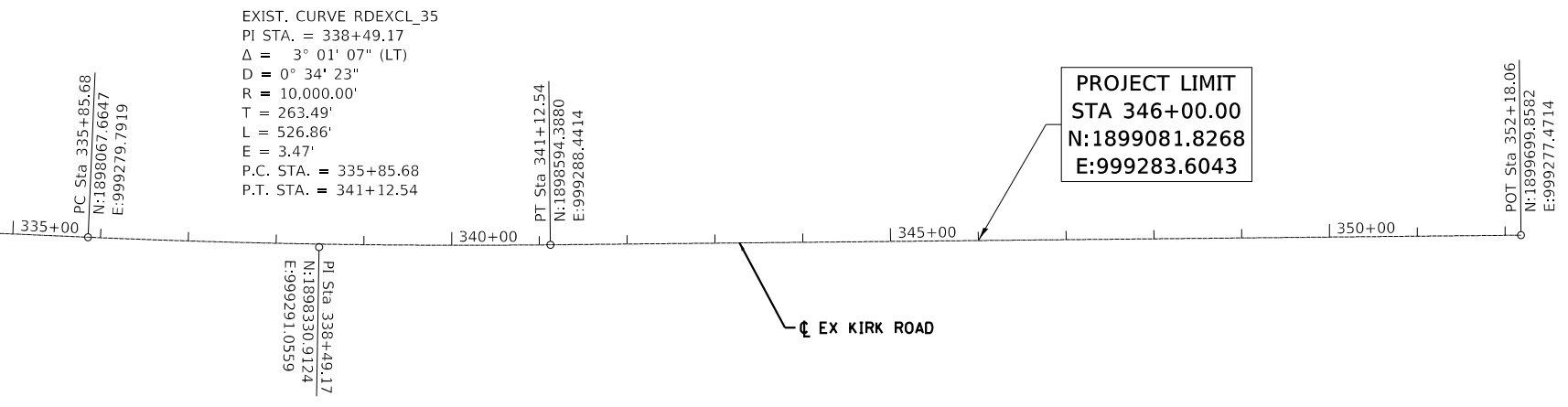
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

ALIGNMENT, TIES, AND BENCHMARKS	
KIRK ROAD	
SCALE: 1" = 100'	SHEET ALI-03 OF 4 SHEETS
STA. 235+00	TO STA. 331+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
360	16-00477-00-5P	KANE	80	11
CONTRACT NO. 61F13				
ILLINOIS FED. AID PROJECT				



SEE SHEET 11  
MATCH LINE STATION 331+00



**BENCHMARKS:**

1. IL-KANE-25-39-8: THE STATION IS LOCATED NORTHWEST OF THE INTERSECTION OF THE ILLINOIS PRAIRIE PATH WITH KIRK ROAD AND 229.0 FT SOUTH OF A GUARDRAIL ALONG THE WEST SIDE OF KIRK ROAD. THE MONUMENT IS A STEEL ROD WITH A LID AT ROAD SURFACE GRADE AND IS FERROMAGNETIC.
2. 0183 2006: THE STATION IS LOCATED ALONG THE NORTH SIDE OF PINE STREET, WEST OF THE INTERSECTION OF PINE STREET AND KIRK ROAD. THE MONUMENT IS A 3.5 INCH BRASS DISK ON THE EAST SIDE OF THE CONCRETE STREET LIGHT BASE.
3. 0182 2006: THE STATION IS LOCATED AT THE NORTHWEST CORNER OF THE INTERSECTION OF WILSON STREET AND KIRK ROAD. THE MONUMENT IS A 2.5 INCH BRASS DISK ON THE WEST SIDE OF A CONCRETE TRAFFIC SIGNAL BASE.
4. 0181 2006: THE STATION IS LOCATED AT THE SOUTHWEST CORNER OF THE INTERSECTION OF KIRK ROAD AND FABYAN PARKWAY. THE MONUMENT IS A 3.5 INCH BRASS DISK ON THE SOUTHEAST CORNER OF A CONCRETE TRAFFIC SIGNAL BASE.

NOTE: ALL CONTROL POINTS WERE SET USING NAVD88 VERTICAL AND ILLINOIS STATE PLANE, EAST ZONE (NAD83) RELATIVE TO THE REGIONAL CORS NETWORK.

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PLOT SCALE = 200.0000' / in.
PLOT DATE = 11/14/2018

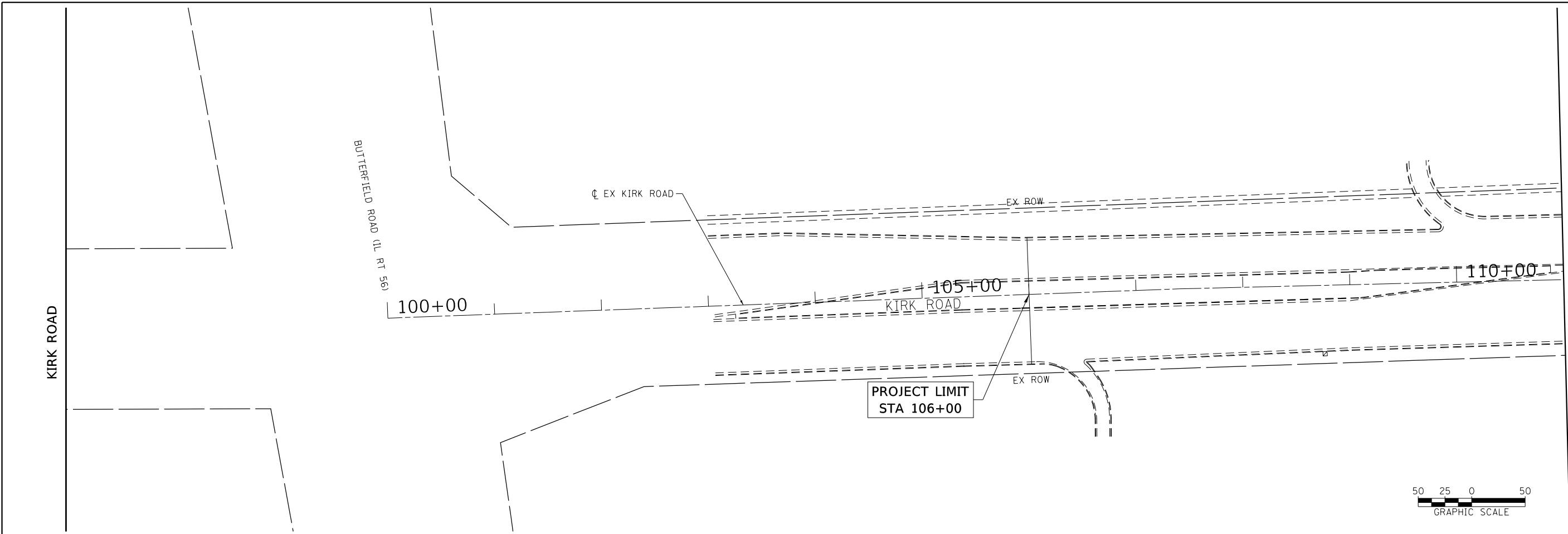
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

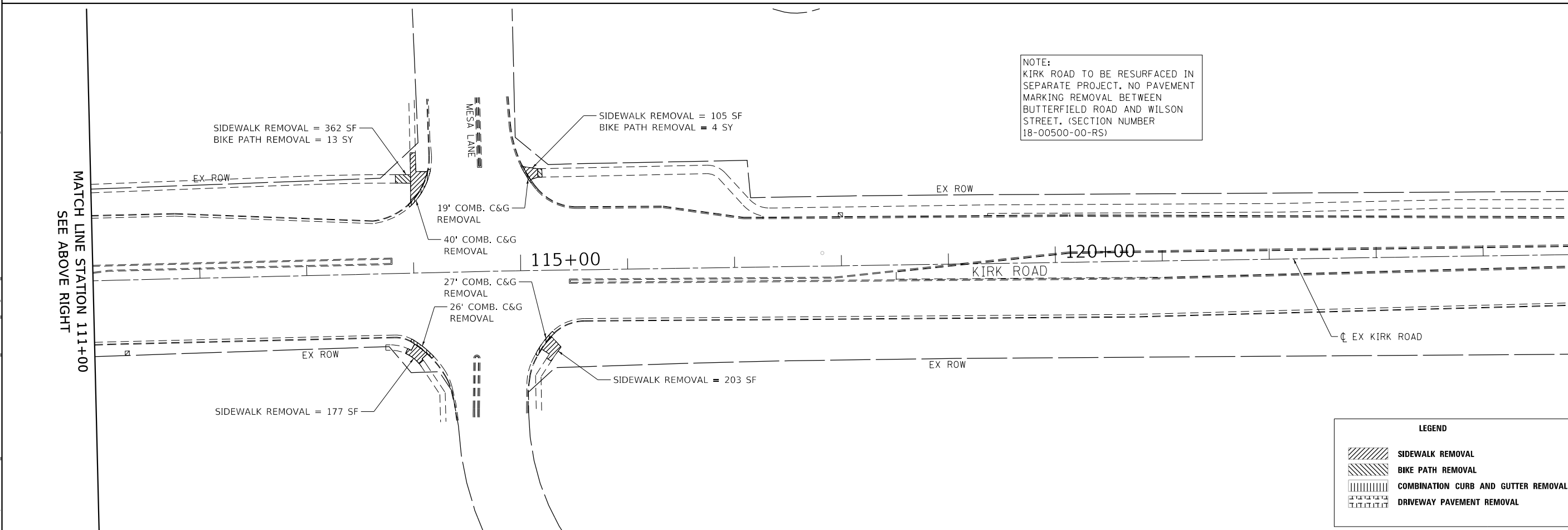
ALIGNMENT, TIES, AND BENCHMARKS			
KIRK ROAD			
SCALE: 1" = 100'	SHEET ALI-04 OF 4 SHEETS	STA. 331+00	TO STA. 352+18.06

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
360	16-00477-00-5P	KANE	80	12
CONTRACT NO. 61F13				
ILLINOIS		FED. AID PROJECT		





SEE BELOW LEFT  
MATCH LINE STATION 111+00



NOTE:  
KIRK ROAD TO BE RESURFACED IN SEPARATE PROJECT. NO PAVEMENT MARKING REMOVAL BETWEEN BUTTERFIELD ROAD AND WILSON STREET. (SECTION NUMBER 18-00500-00-RS)

LEGEND			
	SIDEWALK REMOVAL		BIKE PATH REMOVAL
	COMBINATION CURB AND GUTTER REMOVAL		DRIVEWAY PAVEMENT REMOVAL

SEE SHEET 14  
MATCH LINE STATION 125+00

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PLOT SCALE = 100.0000' / in.  
PLOT DATE = 11/14/2018

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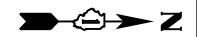
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**REMOVAL PLAN AND PROPOSED EROSION CONTROL PLAN  
KIRK ROAD**

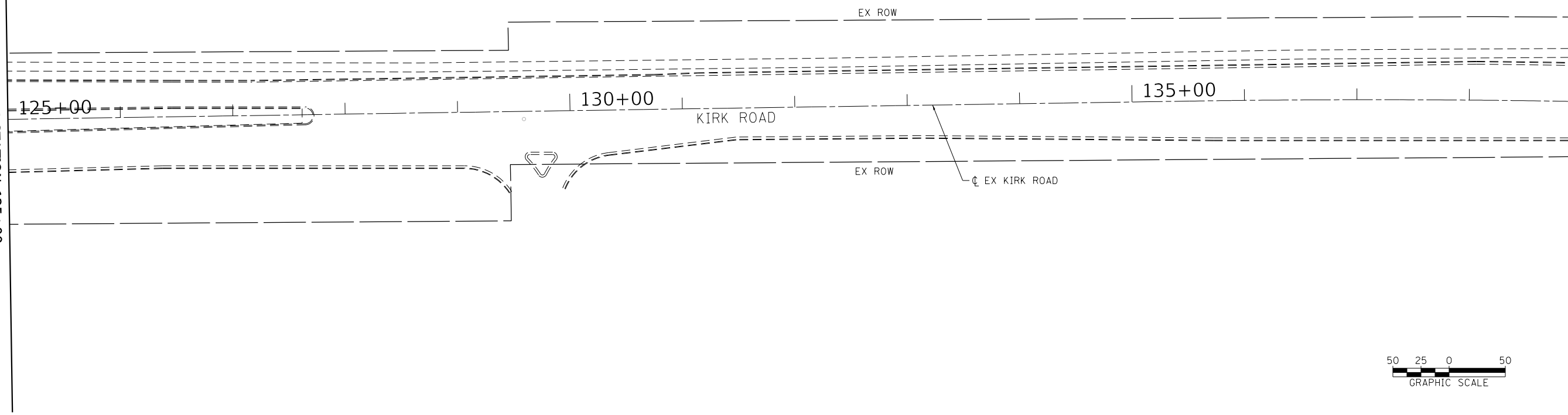
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
360	16-00477-00-5P	KANE	80	13
CONTRACT NO. 61F13				
ILLINOIS FED. AID PROJECT				



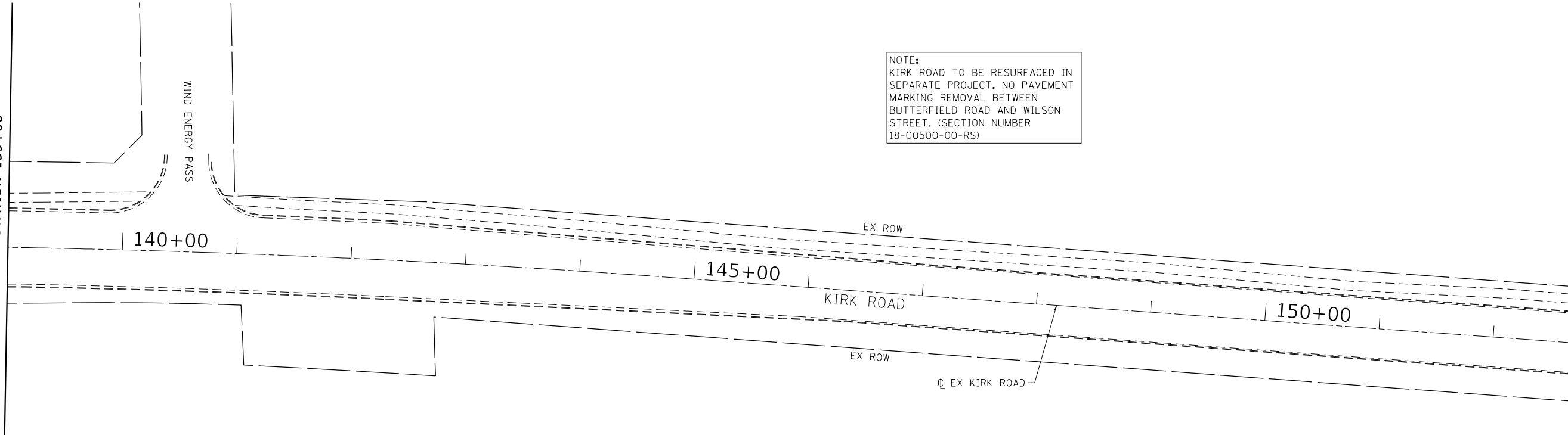
MATCH LINE STATION 125+00  
SEE SHEET 13

MATCH LINE STATION 139+00  
SEE BELOW LEFT



SEE ABOVE RIGHT  
MATCH LINE STATION 139+00

MATCH LINE STATION 153+00  
SEE SHEET 15



NOTE:  
KIRK ROAD TO BE RESURFACED IN SEPARATE PROJECT. NO PAVEMENT MARKING REMOVAL BETWEEN BUTTERFIELD ROAD AND WILSON STREET. (SECTION NUMBER 18-00500-00-RS)

**LEGEND**

	SIDEWALK REMOVAL
	BIKE PATH REMOVAL
	COMBINATION CURB AND GUTTER REMOVAL
	DRIVEWAY PAVEMENT REMOVAL

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USER NAME = yrodriguez  
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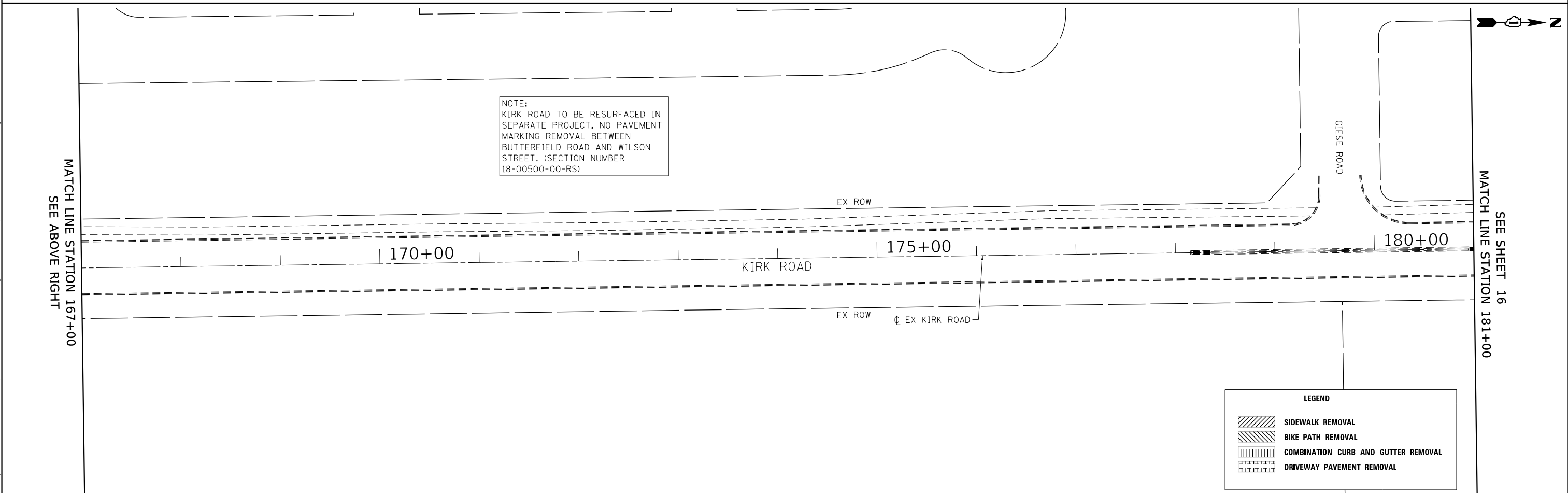
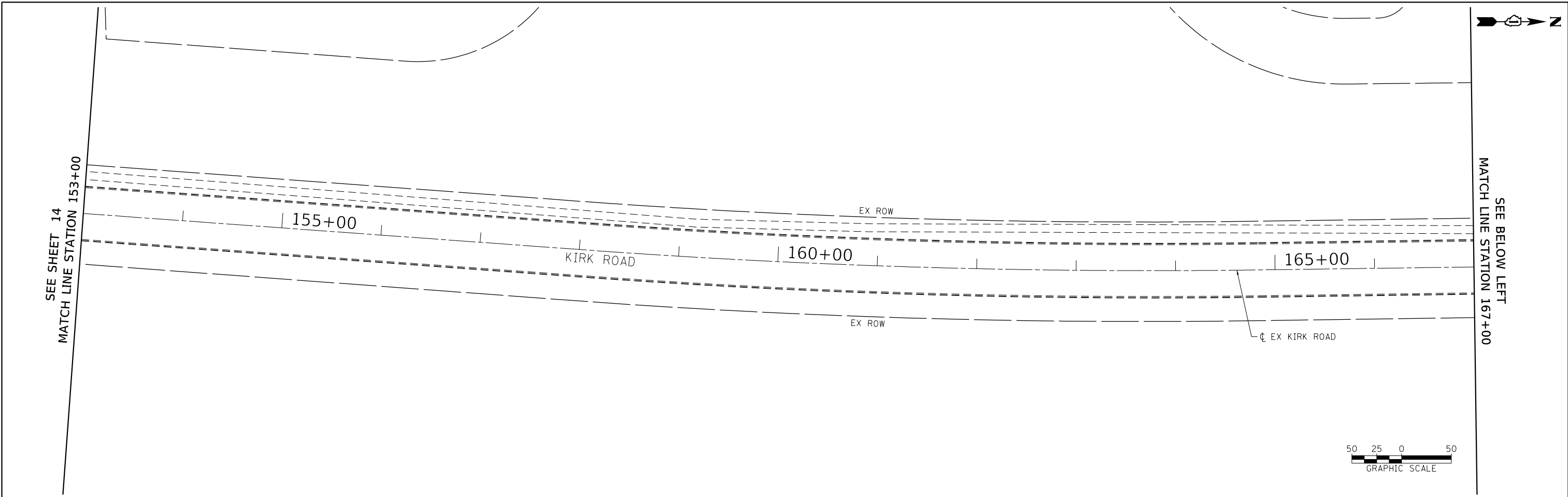
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CHECKED - JJC  
DATE - 11/14/2018

REVISED -  
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REVISED -  
REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**REMOVAL PLAN AND PROPOSED EROSION CONTROL PLAN**  
**KIRK ROAD**  
SCALE: 1" = 50' SHEET REM-02 OF 9 SHEETS STA. 125+00 TO STA. 153+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
360	16-00477-00-5P	KANE	80	14
CONTRACT NO. 61F13				
ILLINOIS FED. AID PROJECT				



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 PLOT: 11/14/2018 10:00:00 AM  
 PLOT SCALE: 1" = 50'  
 PLOT DATE: 11/14/2018

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USER NAME	= yrodriiguez
PLOT SCALE	= 100.0000' / in.
PLOT DATE	= 11/14/2018

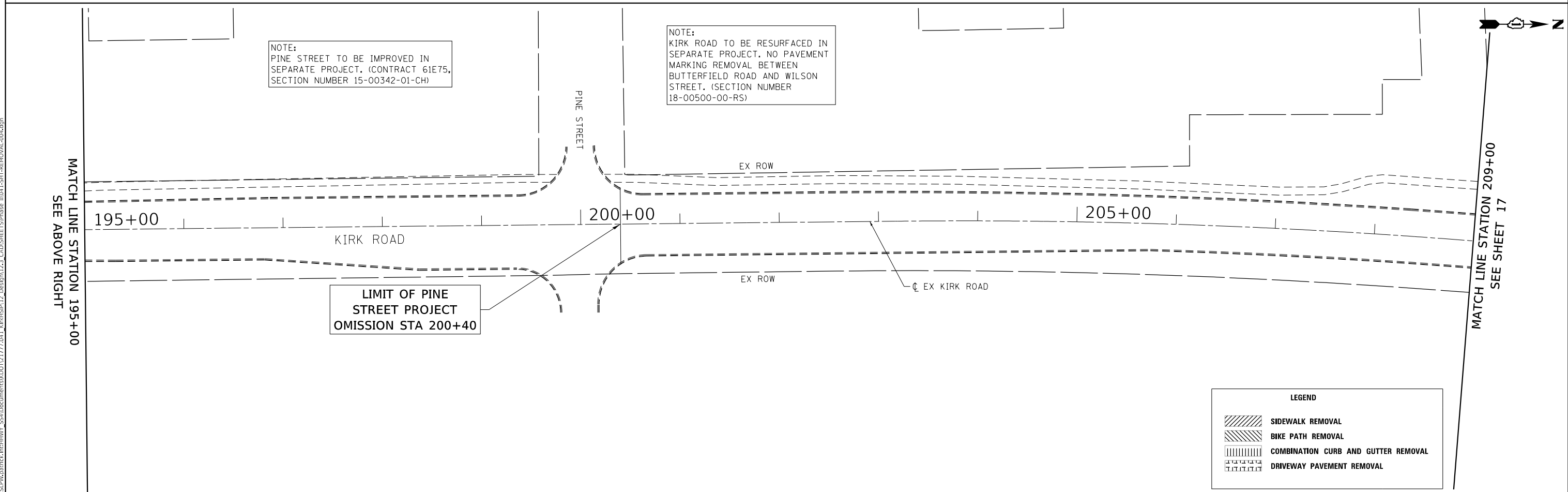
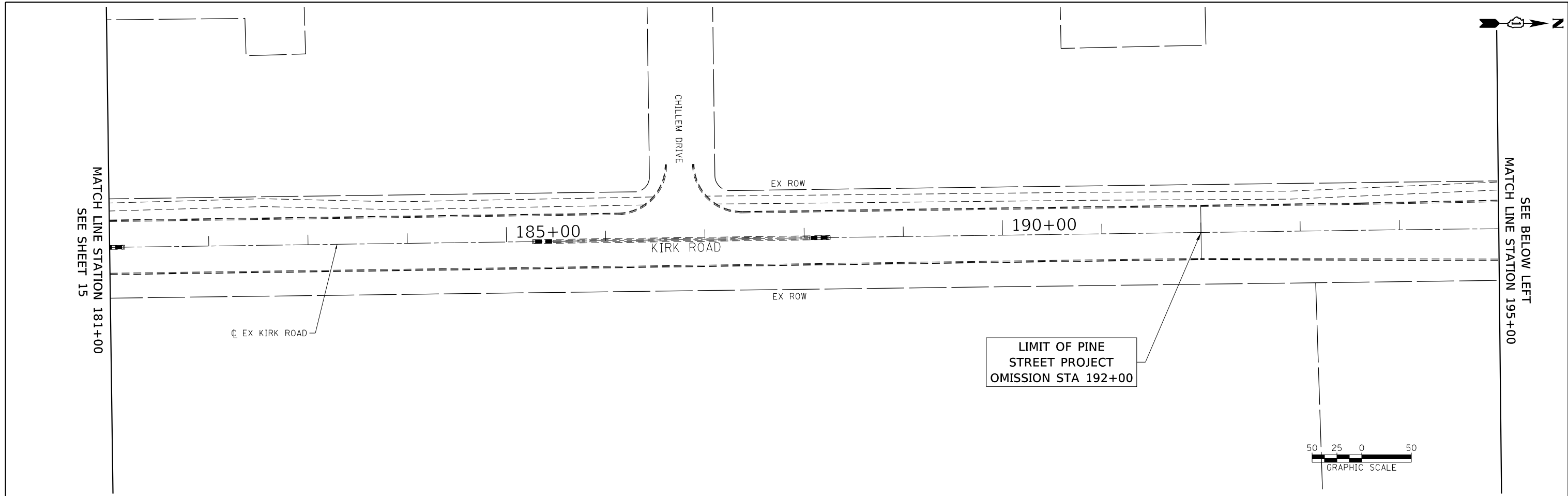
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DATE -	11/14/2018

REVISED -	
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REVISED -	

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**REMOVAL PLAN AND PROPOSED EROSION CONTROL PLAN**  
**KIRK ROAD**  
 SCALE: 1" = 50'    SHEET REM-03 OF 9    SHEETS    STA. 153+00 TO STA. 181+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
360	16-00477-00-5P	KANE	80	15
CONTRACT NO. 61F13				
ILLINOIS			FED. AID PROJECT	



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USER NAME = yrodiguez  
 PLOT SCALE = 100.0000' / in.  
 PLOT DATE = 11/14/2018

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 DRAWN - YMR  
 CHECKED - JJC  
 DATE - 11/14/2018

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**STATE OF ILLINOIS  
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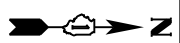
**REMOVAL PLAN AND PROPOSED EROSION CONTROL PLAN  
 KIRK ROAD**

SCALE: 1" = 50'    SHEET REM-04 OF 9    SHEETS    STA. 181+00 TO STA. 209+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
360	16-00477-00-5P	KANE	80	16
CONTRACT NO. 61F13				
ILLINOIS FED. AID PROJECT				



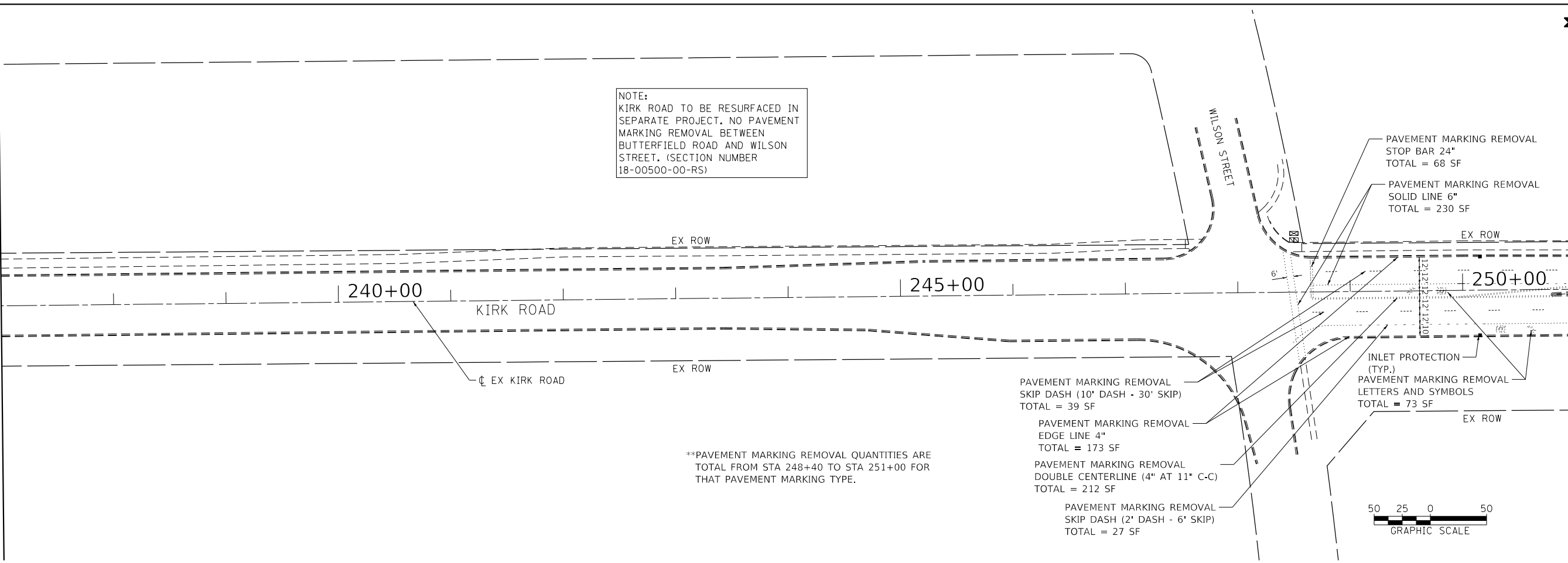




NOTE:  
KIRK ROAD TO BE RESURFACED IN SEPARATE PROJECT. NO PAVEMENT MARKING REMOVAL BETWEEN BUTTERFIELD ROAD AND WILSON STREET. (SECTION NUMBER 18-00500-00-RS)

MATCH LINE STATION 237+00  
SEE SHEET 17

MATCH LINE STATION 251+00  
SEE BELOW LEFT

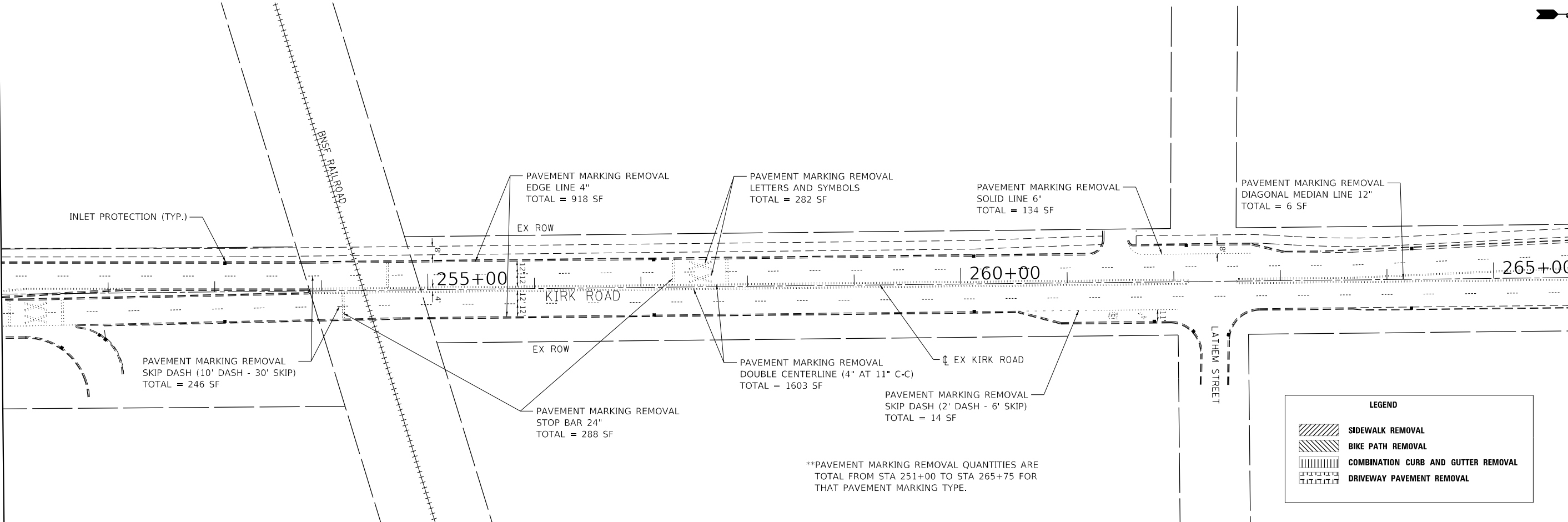


\*\*PAVEMENT MARKING REMOVAL QUANTITIES ARE TOTAL FROM STA 248+40 TO STA 251+00 FOR THAT PAVEMENT MARKING TYPE.



MATCH LINE STATION 251+00  
SEE ABOVE RIGHT

MATCH LINE STATION 265+75  
SEE SHEET 19



\*\*PAVEMENT MARKING REMOVAL QUANTITIES ARE TOTAL FROM STA 251+00 TO STA 265+75 FOR THAT PAVEMENT MARKING TYPE.

MODEL: Default  
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DATE: 11/14/2018

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LISLE, IL 60532  
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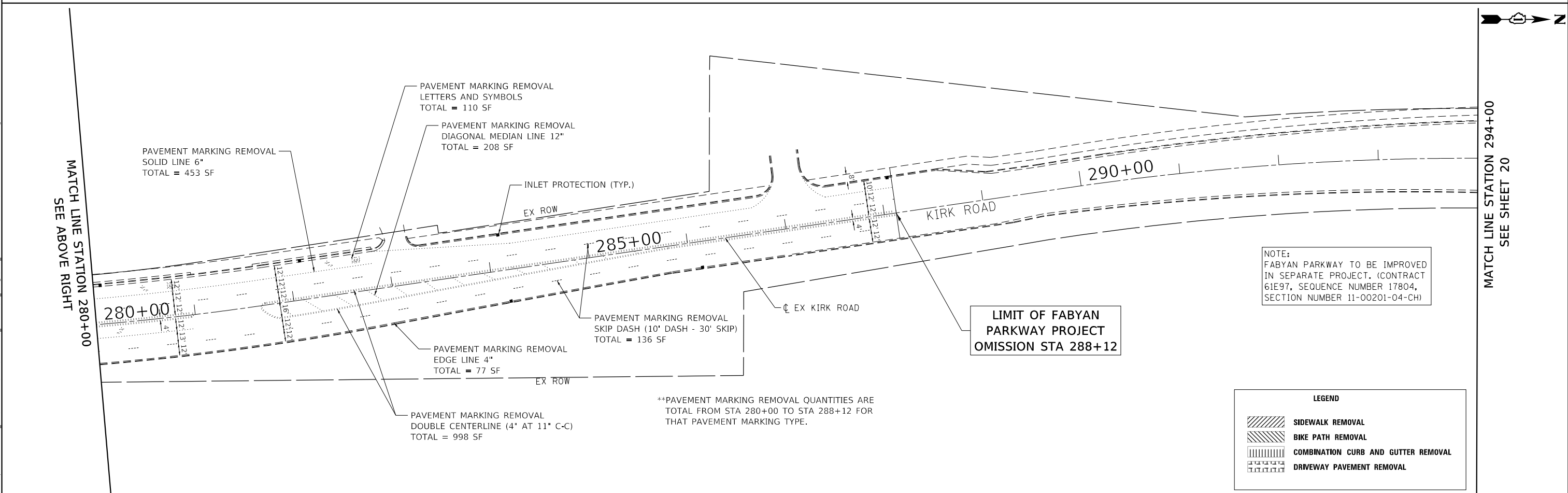
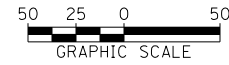
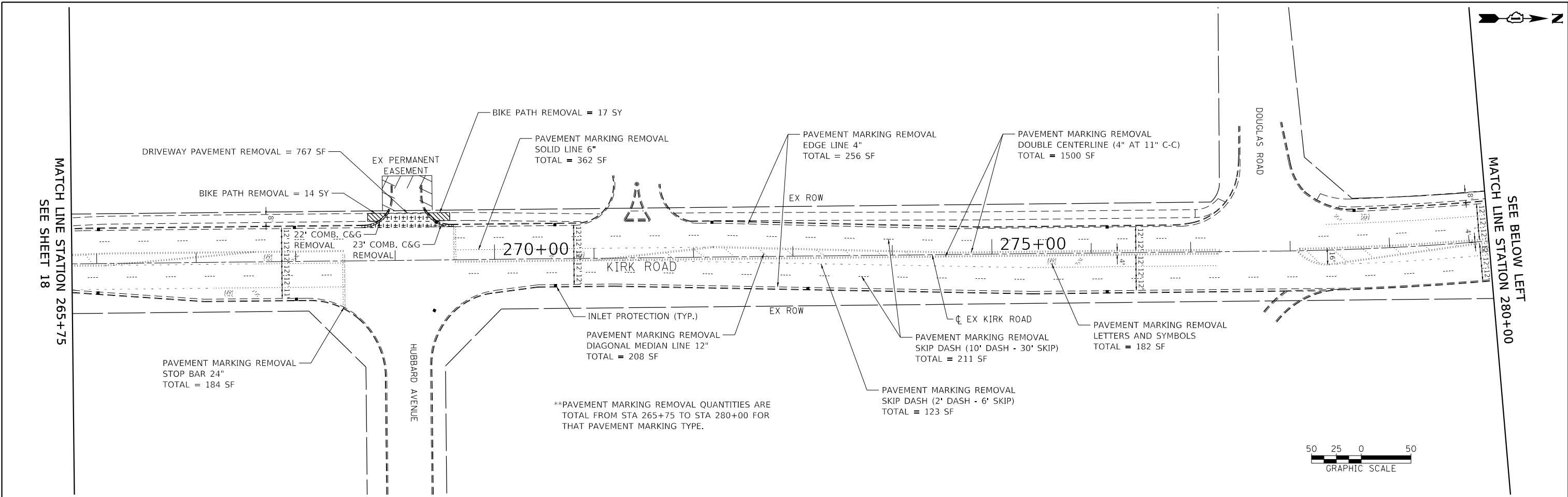
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DESIGNED - YMR  
DRAWN - YMR  
CHECKED - JJC  
DATE - 11/14/2018

REVISIED -  
REVISIED -  
REVISIED -  
REVISIED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

REMOVAL PLAN AND PROPOSED EROSION CONTROL PLAN  
KIRK ROAD  
SCALE: 1" = 50'  
SHEET REM-06 OF 9 SHEETS  
STA. 237+00 TO STA. 265+75

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
360	16-00477-00-5P	KANE	80	18
CONTRACT NO. 61F13				
ILLINOIS FED. AID PROJECT				



NOTE:  
 FABYAN PARKWAY TO BE IMPROVED  
 IN SEPARATE PROJECT. (CONTRACT  
 61E97, SEQUENCE NUMBER 17804,  
 SECTION NUMBER 11-00201-04-CH)

**LIMIT OF FABYAN  
 PARKWAY PROJECT  
 OMISSION STA 288+12**

**LEGEND**

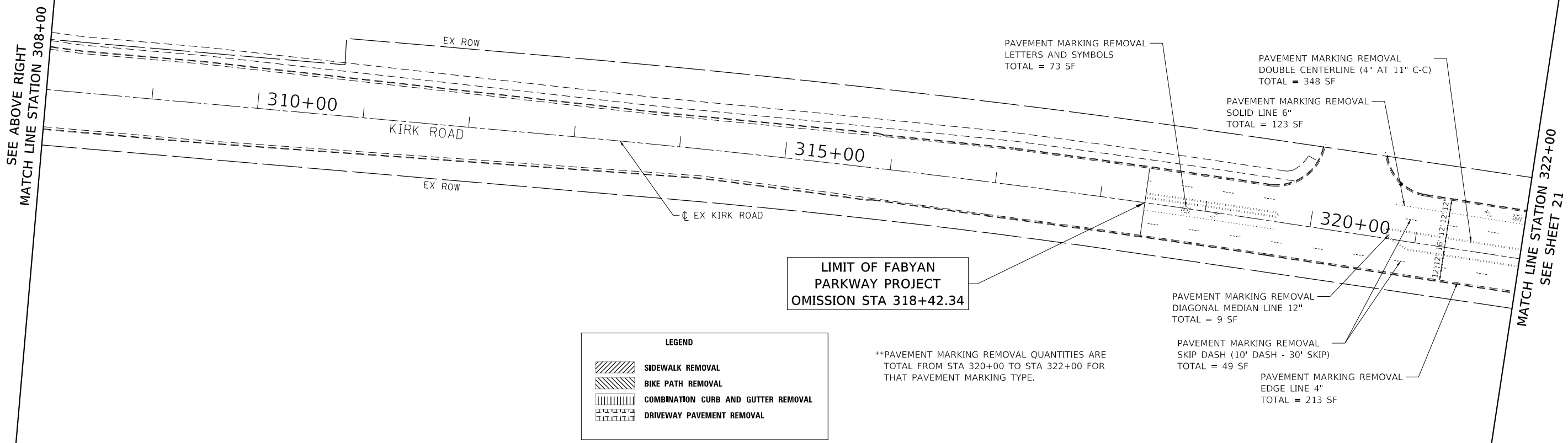
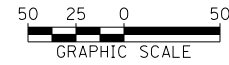
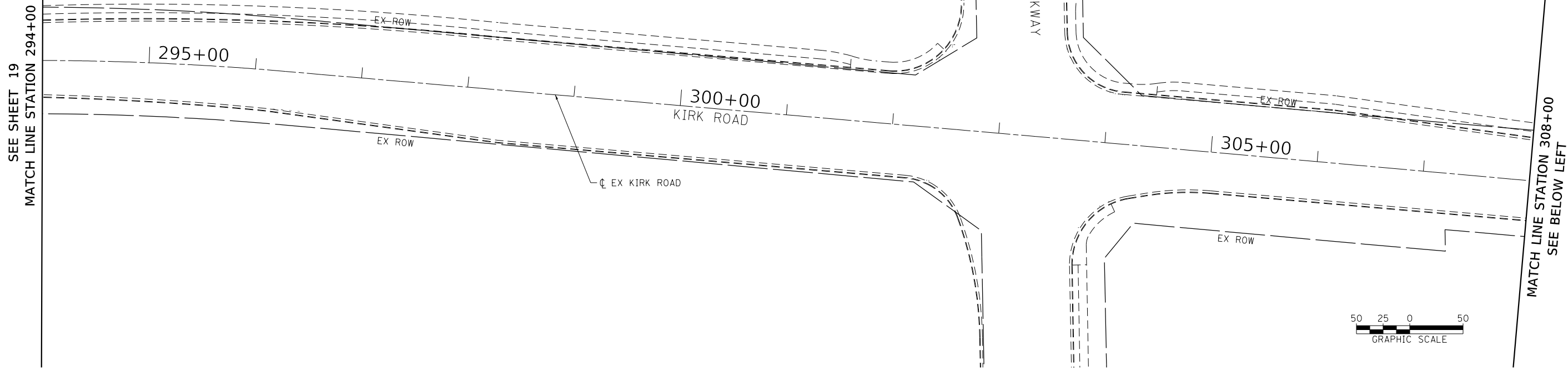
	<b>SIDEWALK REMOVAL</b>
	<b>BIKE PATH REMOVAL</b>
	<b>COMBINATION CURB AND GUTTER REMOVAL</b>
	<b>DRIVEWAY PAVEMENT REMOVAL</b>

\*\*PAVEMENT MARKING REMOVAL QUANTITIES ARE  
 TOTAL FROM STA 280+00 TO STA 288+12 FOR  
 THAT PAVEMENT MARKING TYPE.

<b>PATRICK ENGINEERING INC.</b> 4970 VARSITY DRIVE LISLE, IL 60532 patrickengineering.com	USER NAME = yrodriguez DESIGNED - YMR DRAWN - YMR CHECKED - JJC DATE - 11/14/2018	REVISED - REVISED - REVISED - REVISED -	<b>STATE OF ILLINOIS          DEPARTMENT OF TRANSPORTATION</b>	<b>REMOVAL PLAN AND PROPOSED EROSION CONTROL PLAN          KIRK ROAD</b>	F.A.P. RTE. = 360 SECTION = 16-00477-00-5P COUNTY = KANE TOTAL SHEETS = 80 SHEET NO. = 19 CONTRACT NO. 61F13
	PLOT SCALE = 100.0000' / in. PLOT DATE = 11/14/2018	DATE - 11/14/2018			SCALE: 1" = 50' SHEET REM-07 OF 9 SHEETS STA. 264+75 TO STA. 294+00 ILLINOIS FED. AID PROJECT

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NOTE:  
 FABYAN PARKWAY TO BE IMPROVED  
 IN SEPARATE PROJECT. (CONTRACT  
 61E97, SEQUENCE NUMBER 17804,  
 SECTION NUMBER 11-00201-04-CH)



**LEGEND**

	SIDEWALK REMOVAL
	BIKE PATH REMOVAL
	COMBINATION CURB AND GUTTER REMOVAL
	DRIVEWAY PAVEMENT REMOVAL

\*\*PAVEMENT MARKING REMOVAL QUANTITIES ARE TOTAL FROM STA 320+00 TO STA 322+00 FOR THAT PAVEMENT MARKING TYPE.

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**PATRICK ENGINEERING INC.**  
 4970 VARSITY DRIVE  
 LISLE, IL 60532  
 patrickengineering.com

USER NAME = yrodiguez
PLOT SCALE = 100.0000' / in.
PLOT DATE = 11/14/2018

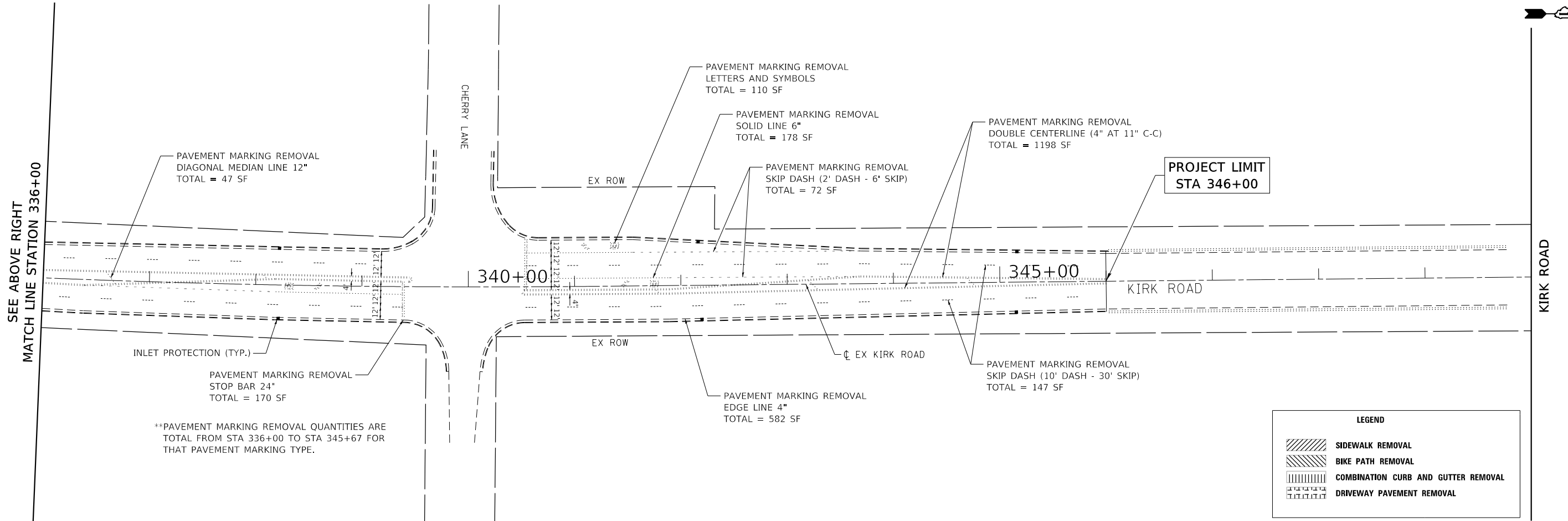
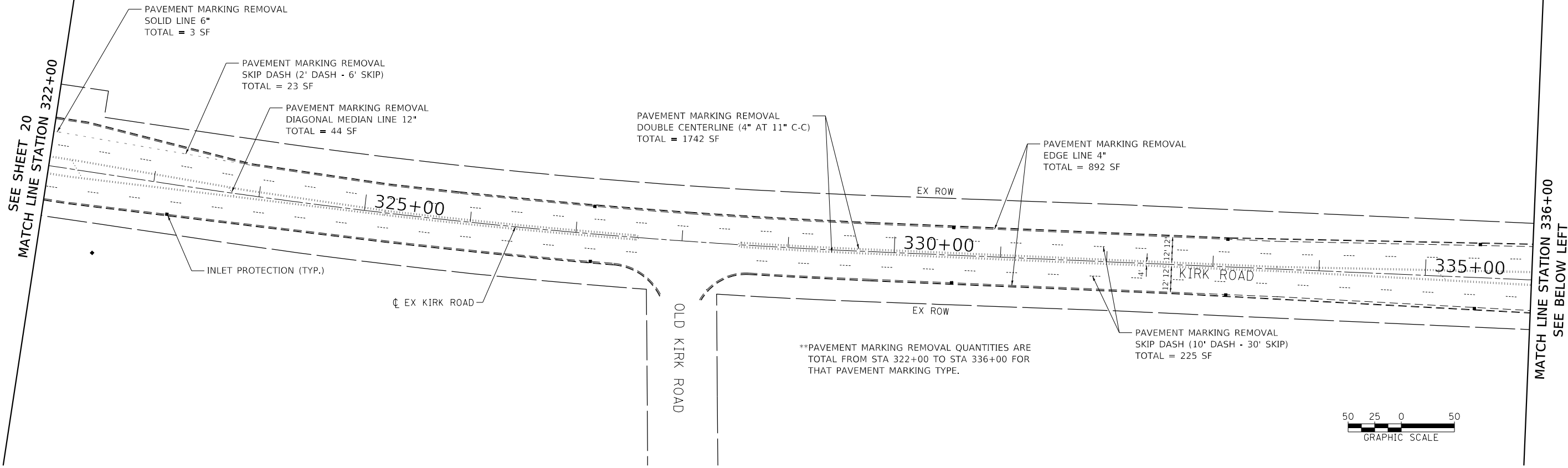
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DRAWN - YMR	REVISD -
CHECKED - JJC	REVISD -
DATE - 11/14/2018	REVISD -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**REMOVAL PLAN AND PROPOSED EROSION CONTROL PLAN**  
**KIRK ROAD**  
 SCALE: 1" = 50' SHEET REM-08 OF 9 SHEETS STA. 294+00 TO STA. 322+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
360	16-00477-00-5P	KANE	80	20
CONTRACT NO. 61F13				
ILLINOIS FED. AID PROJECT				





**LEGEND**

	SIDEWALK REMOVAL
	BIKE PATH REMOVAL
	COMBINATION CURB AND GUTTER REMOVAL
	DRIVEWAY PAVEMENT REMOVAL

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**PATRICK ENGINEERING INC.**  
 4970 VARSITY DRIVE  
 LISLE, IL 60532  
 patrickengineering.com

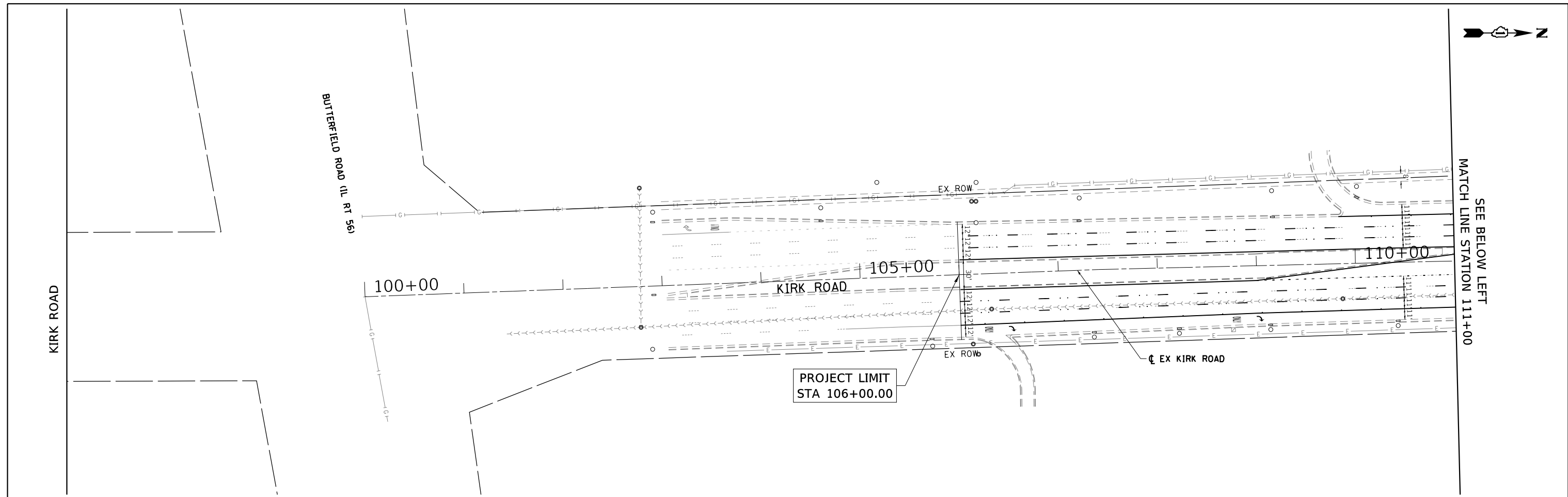
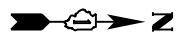
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PLOT DATE = 11/14/2018	CHECKED - JJC	REVISED -
	DATE - 11/14/2018	REVISED -

DESIGNED - YMR	REVISED -
DRAWN - YMR	REVISED -
CHECKED - JJC	REVISED -
DATE - 11/14/2018	REVISED -

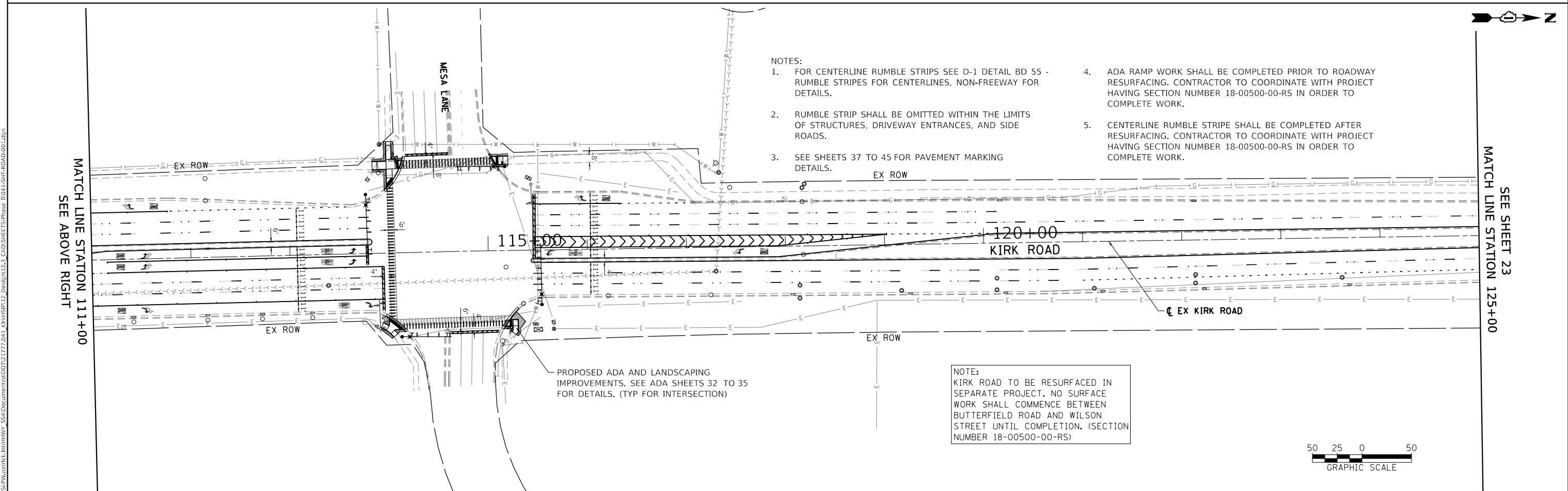
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

<b>REMOVAL PLAN AND PROPOSED EROSION CONTROL PLAN</b> <b>KIRK ROAD</b>			
SCALE: 1" = 50'	SHEET REM-09 OF 9	SHEETS	STA. 322+00 TO STA. 350+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
360	16-00477-00-5P	KANE	80	21
CONTRACT NO. 61F13				
ILLINOIS FED. AID PROJECT				



SEE BELOW LEFT  
MATCH LINE STATION 111+00



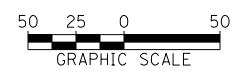
SEE SHEET 23  
MATCH LINE STATION 125+00

NOTES:

- FOR CENTERLINE RUMBLE STRIPS SEE D-1 DETAIL BD 55 - RUMBLE STRIPS FOR CENTERLINES, NON-FREEWAY FOR DETAILS.
- RUMBLE STRIP SHALL BE OMITTED WITHIN THE LIMITS OF STRUCTURES, DRIVEWAY ENTRANCES, AND SIDE ROADS.
- SEE SHEETS 37 TO 45 FOR PAVEMENT MARKING DETAILS.
- ADA RAMP WORK SHALL BE COMPLETED PRIOR TO ROADWAY RESURFACING. CONTRACTOR TO COORDINATE WITH PROJECT HAVING SECTION NUMBER 18-00500-00-RS IN ORDER TO COMPLETE WORK.
- CENTERLINE RUMBLE STRIPE SHALL BE COMPLETED AFTER RESURFACING. CONTRACTOR TO COORDINATE WITH PROJECT HAVING SECTION NUMBER 18-00500-00-RS IN ORDER TO COMPLETE WORK.

PROPOSED ADA AND LANDSCAPING IMPROVEMENTS. SEE ADA SHEETS 32 TO 35 FOR DETAILS. (TYP FOR INTERSECTION)

NOTE:  
KIRK ROAD TO BE RESURFACED IN SEPARATE PROJECT. NO SURFACE WORK SHALL COMMENCE BETWEEN BUTTERFIELD ROAD AND WILSON STREET UNTIL COMPLETION. (SECTION NUMBER 18-00500-00-RS)



MODEL: Default  
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4970 VARSITY DRIVE  
LISLE, IL 60532  
patrickengineering.com

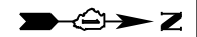
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PLOT DATE = 11/14/2018	CHECKED - JJC	REVISED -
	DATE - 11/14/2018	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

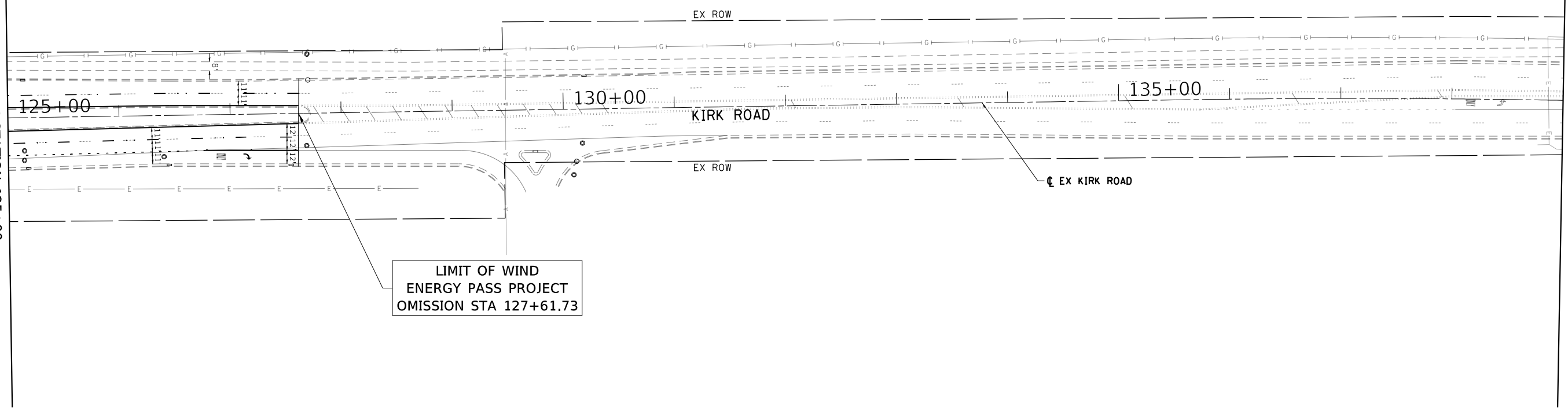
**PROPOSED ROADWAY IMPROVEMENTS  
KIRK ROAD**

SCALE: 1" = 50'    SHEET RP-01 OF 9 SHEETS    STA. 100+00 TO STA. 125+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
360	16-00477-00-5P	KANE	80	22
CONTRACT NO. 61F13				
ILLINOIS FED. AID PROJECT				



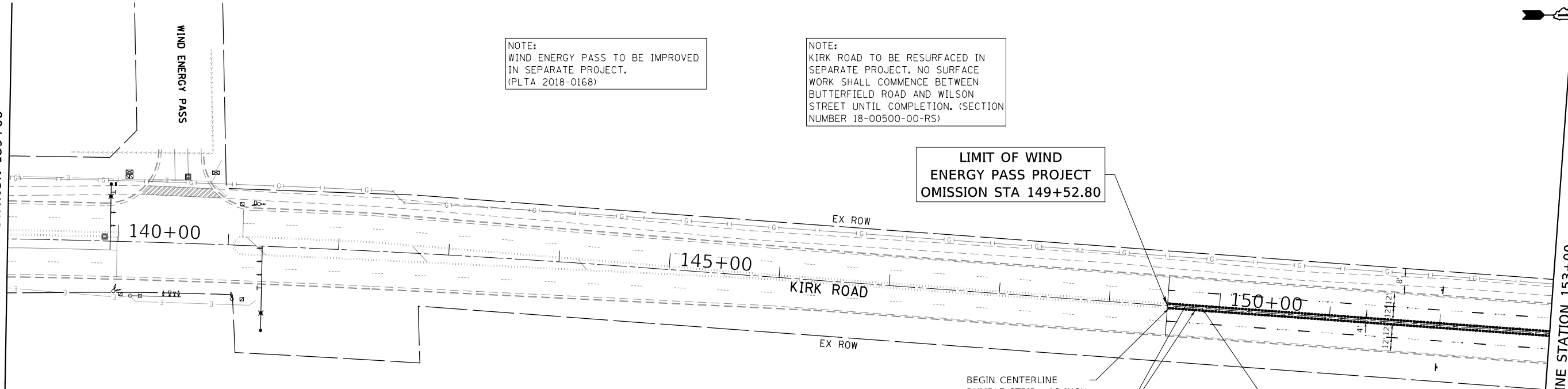
MATCH LINE STATION 125+00  
SEE SHEET 22



MATCH LINE STATION 139+00  
SEE BELOW LEFT



SEE ABOVE RIGHT  
MATCH LINE STATION 139+00



MATCH LINE STATION 153+00  
SEE SHEET 24

NOTE:  
WIND ENERGY PASS TO BE IMPROVED  
IN SEPARATE PROJECT.  
(PLTA 2018-0168)

NOTE:  
KIRK ROAD TO BE RESURFACED IN  
SEPARATE PROJECT. NO SURFACE  
WORK SHALL COMMENCE BETWEEN  
BUTTERFIELD ROAD AND WILSON  
STREET UNTIL COMPLETION. (SECTION  
NUMBER 18-00500-00-RS)

LIMIT OF WIND  
ENERGY PASS PROJECT  
OMISSION STA 149+52.80

- NOTES:
- FOR CENTERLINE RUMBLE STRIPS SEE D-1 DETAIL BD 55 - RUMBLE STRIPS FOR CENTERLINES, NON-FREEWAY FOR DETAILS.
  - RUMBLE STRIP SHALL BE OMITTED WITHIN THE LIMITS OF STRUCTURES, DRIVEWAY ENTRANCES, AND SIDE ROADS.
  - SEE SHEETS 37 TO 45 FOR PAVEMENT MARKING DETAILS.
  - CENTERLINE RUMBLE STRIPE SHALL BE COMPLETED AFTER RESURFACING. CONTRACTOR TO COORDINATE WITH PROJECT HAVING SECTION NUMBER 18-00500-00-RS IN ORDER TO COMPLETE WORK.



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**PATRICK ENGINEERING INC.**  
4970 VARSITY DRIVE  
LISLE, IL 60532  
patrickengineering.com

USER NAME = yrodiguez  
DESIGNED - YMR  
DRAWN - YMR  
CHECKED - JJC  
DATE - 11/14/2018

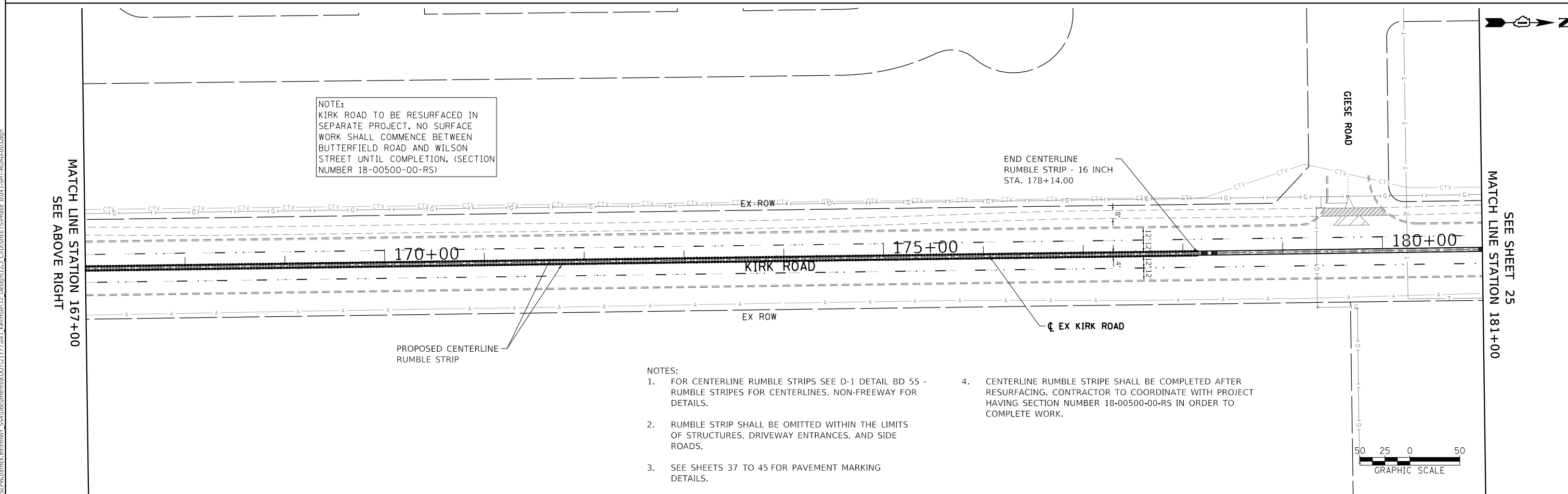
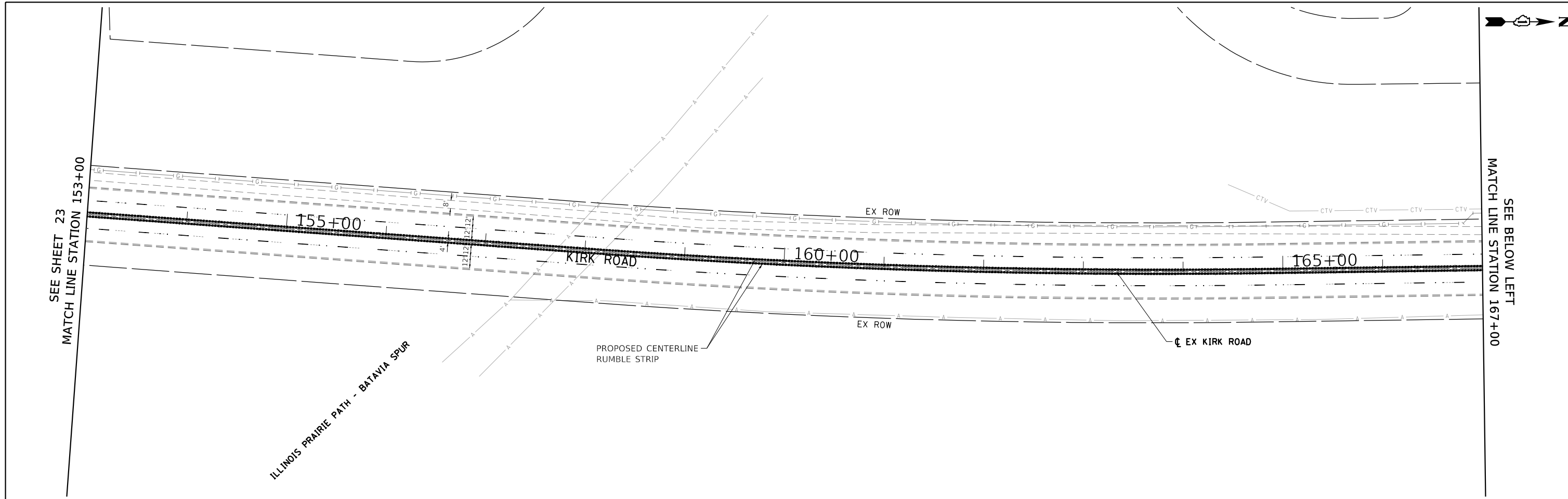
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**PROPOSED ROADWAY IMPROVEMENTS**  
**KIRK ROAD**

SCALE: 1" = 50'  
SHEET RP-02 OF 9 SHEETS  
STA. 125+00 TO STA. 153+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
360	16-00477-00-5P	KANE	80	23
CONTRACT NO. 61F13				
ILLINOIS FED. AID PROJECT				



NOTE:  
KIRK ROAD TO BE RESURFACED IN SEPARATE PROJECT. NO SURFACE WORK SHALL COMMENCE BETWEEN BUTTERFIELD ROAD AND WILSON STREET UNTIL COMPLETION. (SECTION NUMBER 18-00500-00-RS)

- NOTES:
- FOR CENTERLINE RUMBLE STRIPS SEE D-1 DETAIL BD 55 - RUMBLE STRIPS FOR CENTERLINES, NON-FREEWAY FOR DETAILS.
  - RUMBLE STRIP SHALL BE OMITTED WITHIN THE LIMITS OF STRUCTURES, DRIVEWAY ENTRANCES, AND SIDE ROADS.
  - SEE SHEETS 37 TO 45 FOR PAVEMENT MARKING DETAILS.
  - CENTERLINE RUMBLE STRIPE SHALL BE COMPLETED AFTER RESURFACING. CONTRACTOR TO COORDINATE WITH PROJECT HAVING SECTION NUMBER 18-00500-00-RS IN ORDER TO COMPLETE WORK.



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 DATE: 11/14/2018

**PATRICK ENGINEERING INC.**  
 4970 VARSITY DRIVE  
 LISLE, IL 60532  
 patrickengineering.com

USER NAME = yrodri...  
 DESIGNED - YMR  
 DRAWN - YMR  
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 DATE - 11/14/2018

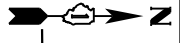
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

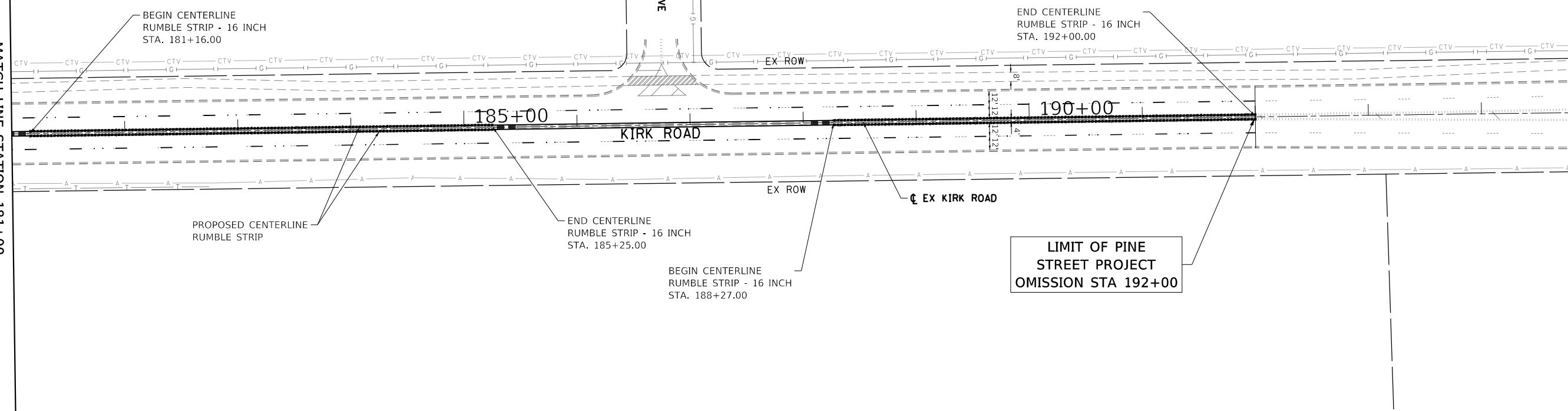
**PROPOSED ROADWAY IMPROVEMENTS  
 KIRK ROAD**  
 SCALE: 1" = 50' SHEET RP-03 OF 9 SHEETS STA. 153+00 TO STA. 181+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
360	16-00477-00-5P	KANE	80	24
CONTRACT NO. 61F13				
ILLINOIS FED. AID PROJECT				



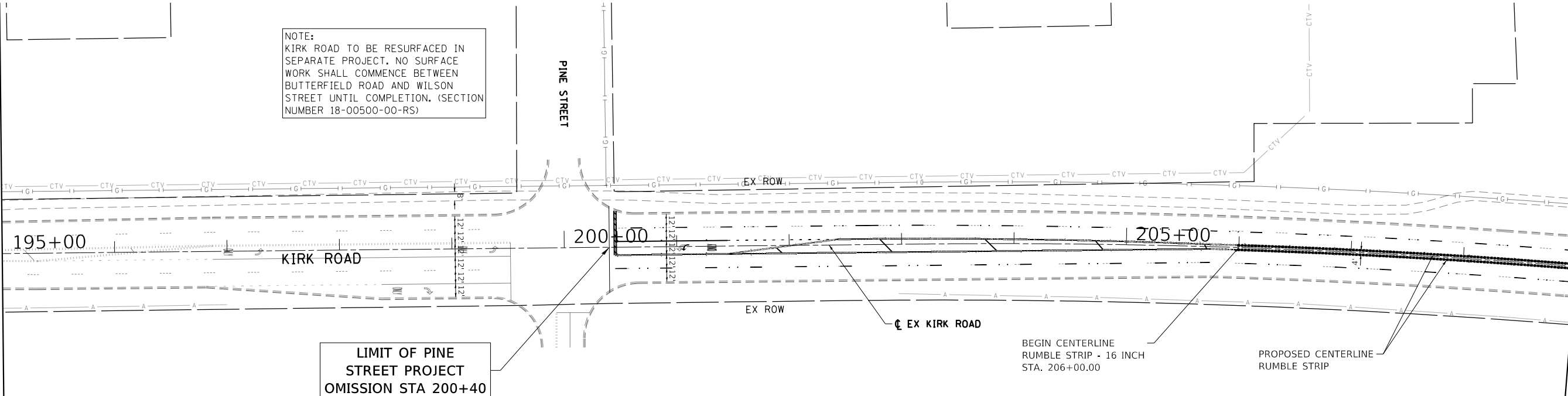
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SEE BELOW LEFT

MATCH LINE STATION 181+00  
SEE SHEET 24



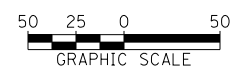
MATCH LINE STATION 209+00  
SEE SHEET 26

MATCH LINE STATION 195+00  
SEE ABOVE RIGHT



NOTE:  
PINE STREET TO BE IMPROVED IN SEPARATE PROJECT. (CONTRACT 61E75, SECTION NUMBER 15-00342-01-CH)

- NOTES:
- FOR CENTERLINE RUMBLE STRIPS SEE D-1 DETAIL BD 55 - RUMBLE STRIPS FOR CENTERLINES, NON-FREEWAY FOR DETAILS.
  - RUMBLE STRIP SHALL BE OMITTED WITHIN THE LIMITS OF STRUCTURES, DRIVEWAY ENTRANCES, AND SIDE ROADS.
  - SEE SHEETS 37 TO 45 FOR PAVEMENT MARKING DETAILS.
  - CENTERLINE RUMBLE STRIPE SHALL BE COMPLETED AFTER RESURFACING. CONTRACTOR TO COORDINATE WITH PROJECT HAVING SECTION NUMBER 18-00500-00-RS IN ORDER TO COMPLETE WORK.



MODEL: Default  
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 USER: yrodriiguez  
 PLOT DATE: 11/14/2018

**PATRICK ENGINEERING INC.**  
 4970 VARSITY DRIVE  
 LISLE, IL 60532  
 patrickengineering.com

USER NAME	= yrodriiguez
PLOT SCALE	= 100.0000' / in.
PLOT DATE	= 11/14/2018

DESIGNED	- YMR
DRAWN	- YMR
CHECKED	- JJC
DATE	- 11/14/2018

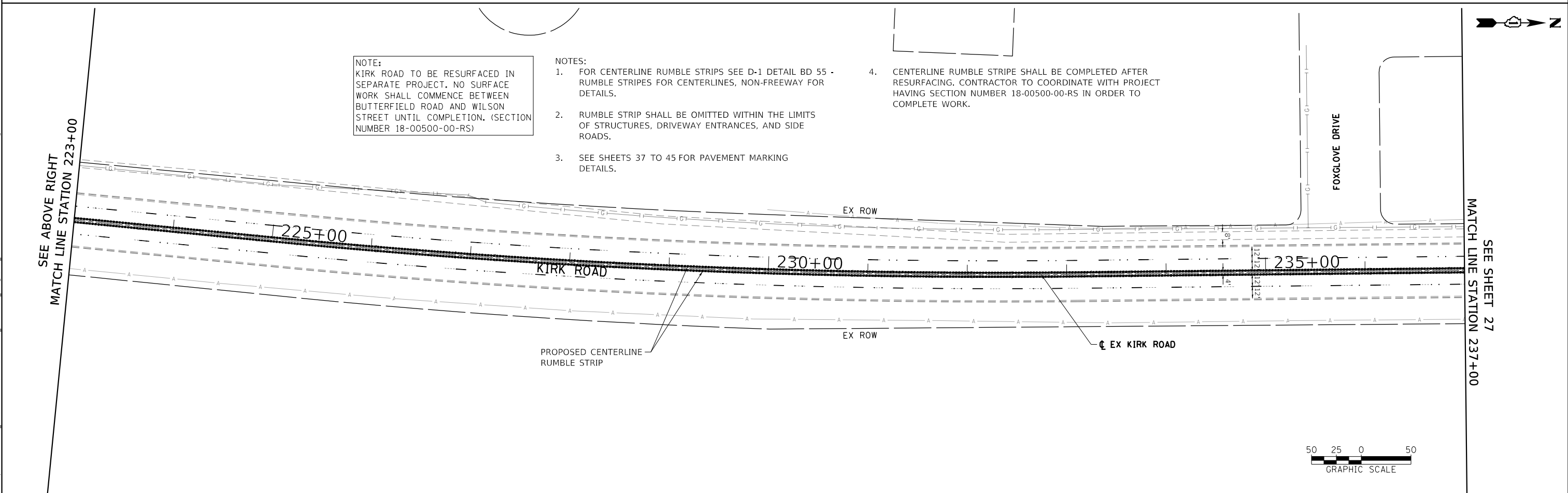
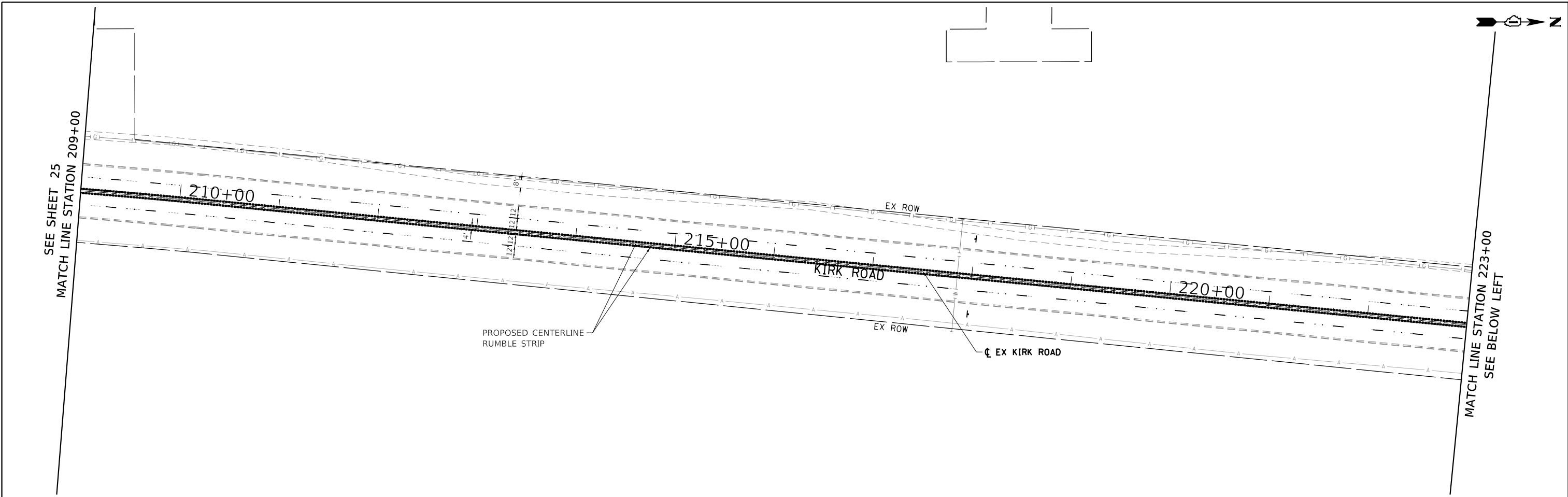
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PROPOSED ROADWAY IMPROVEMENTS  
 KIRK ROAD**

SCALE: 1" = 50' SHEET RP-04 OF 9 SHEETS STA. 181+00 TO STA. 209+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
360	16-00477-00-5P	KANE	80	25
CONTRACT NO. 61F13				
ILLINOIS FED. AID PROJECT				



NOTE:  
KIRK ROAD TO BE RESURFACED IN SEPARATE PROJECT. NO SURFACE WORK SHALL COMMENCE BETWEEN BUTTERFIELD ROAD AND WILSON STREET UNTIL COMPLETION. (SECTION NUMBER 18-00500-00-RS)

- NOTES:
- FOR CENTERLINE RUMBLE STRIPS SEE D-1 DETAIL BD 55 - RUMBLE STRIPES FOR CENTERLINES, NON-FREEWAY FOR DETAILS.
  - RUMBLE STRIP SHALL BE OMITTED WITHIN THE LIMITS OF STRUCTURES, DRIVEWAY ENTRANCES, AND SIDE ROADS.
  - SEE SHEETS 37 TO 45 FOR PAVEMENT MARKING DETAILS.
  - CENTERLINE RUMBLE STRIPE SHALL BE COMPLETED AFTER RESURFACING. CONTRACTOR TO COORDINATE WITH PROJECT HAVING SECTION NUMBER 18-00500-00-RS IN ORDER TO COMPLETE WORK.

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 DATE: 11/14/2018

**PATRICK ENGINEERING INC.**  
 4970 VARSITY DRIVE  
 LISLE, IL 60532  
 patrickengineering.com

USER NAME = yrodri...  
 DESIGNED - YMR  
 DRAWN - YMR  
 CHECKED - JJC  
 DATE - 11/14/2018

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 REVIS...  
 REVIS...  
 REVIS...

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PROPOSED ROADWAY IMPROVEMENTS  
 KIRK ROAD**  
 SCALE: 1" = 50' SHEET RP-05 OF 9 SHEETS STA. 209+00 TO STA. 237+00

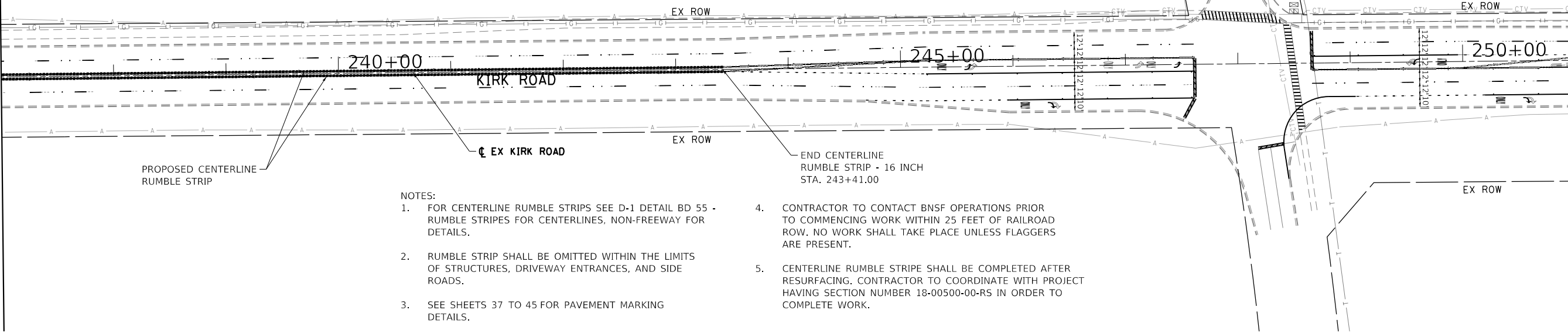
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
360	16-00477-00-5P	KANE	80	26
CONTRACT NO. 61F13				
ILLINOIS FED. AID PROJECT				



NOTE:  
KIRK ROAD TO BE RESURFACED IN SEPARATE PROJECT. NO SURFACE WORK SHALL COMMENCE BETWEEN BUTTERFIELD ROAD AND WILSON STREET UNTIL COMPLETION. (SECTION NUMBER 18-00500-00-RS)

MATCH LINE STATION 237+00  
SEE SHEET 26

MATCH LINE STATION 251+00  
SEE BELOW LEFT



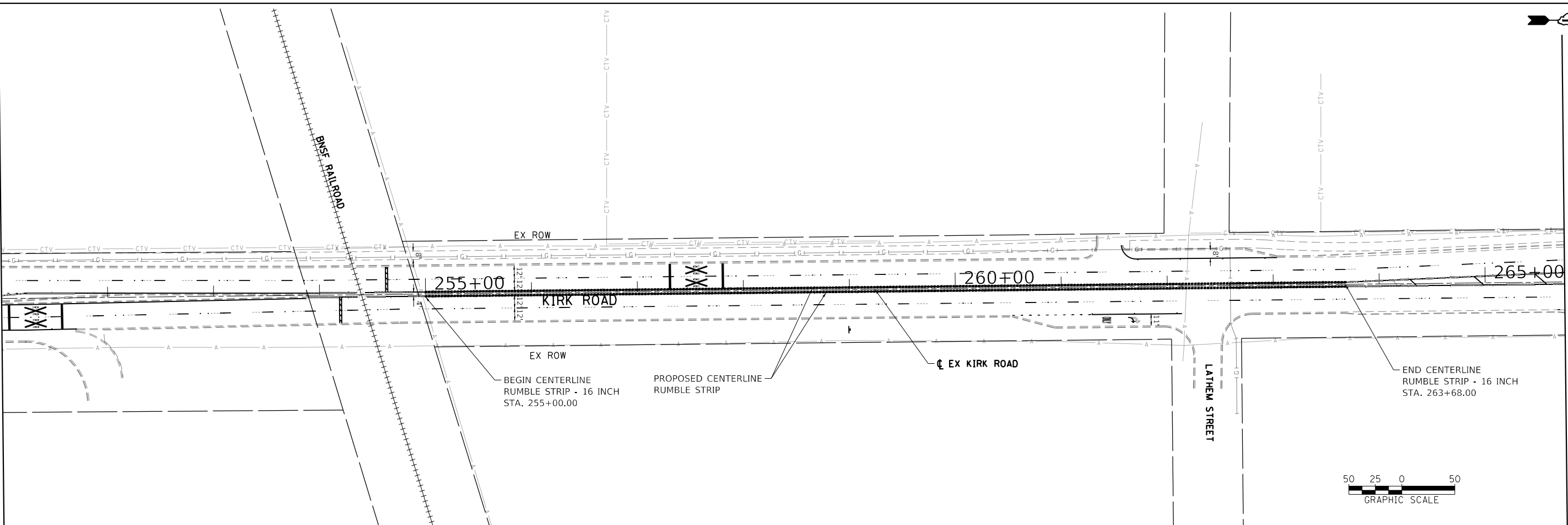
- NOTES:
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  2. RUMBLE STRIP SHALL BE OMITTED WITHIN THE LIMITS OF STRUCTURES, DRIVEWAY ENTRANCES, AND SIDE ROADS.
  3. SEE SHEETS 37 TO 45 FOR PAVEMENT MARKING DETAILS.
  4. CONTRACTOR TO CONTACT BNSF OPERATIONS PRIOR TO COMMENCING WORK WITHIN 25 FEET OF RAILROAD ROW. NO WORK SHALL TAKE PLACE UNLESS FLAGGERS ARE PRESENT.
  5. CENTERLINE RUMBLE STRIPE SHALL BE COMPLETED AFTER RESURFACING. CONTRACTOR TO COORDINATE WITH PROJECT HAVING SECTION NUMBER 18-00500-00-RS IN ORDER TO COMPLETE WORK.



MODEL: Default  
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MATCH LINE STATION 251+00  
SEE ABOVE RIGHT

MATCH LINE STATION 265+75  
SEE SHEET 28



**PATRICK ENGINEERING INC.**  
4970 VARSITY DRIVE  
LISLE, IL 60532  
patrickengineering.com

USER NAME = yrodriiguez  
PLOT SCALE = 100.0000' / in.  
PLOT DATE = 11/14/2018

DESIGNED - YMR  
DRAWN - YMR  
CHECKED - JJC  
DATE - 11/14/2018

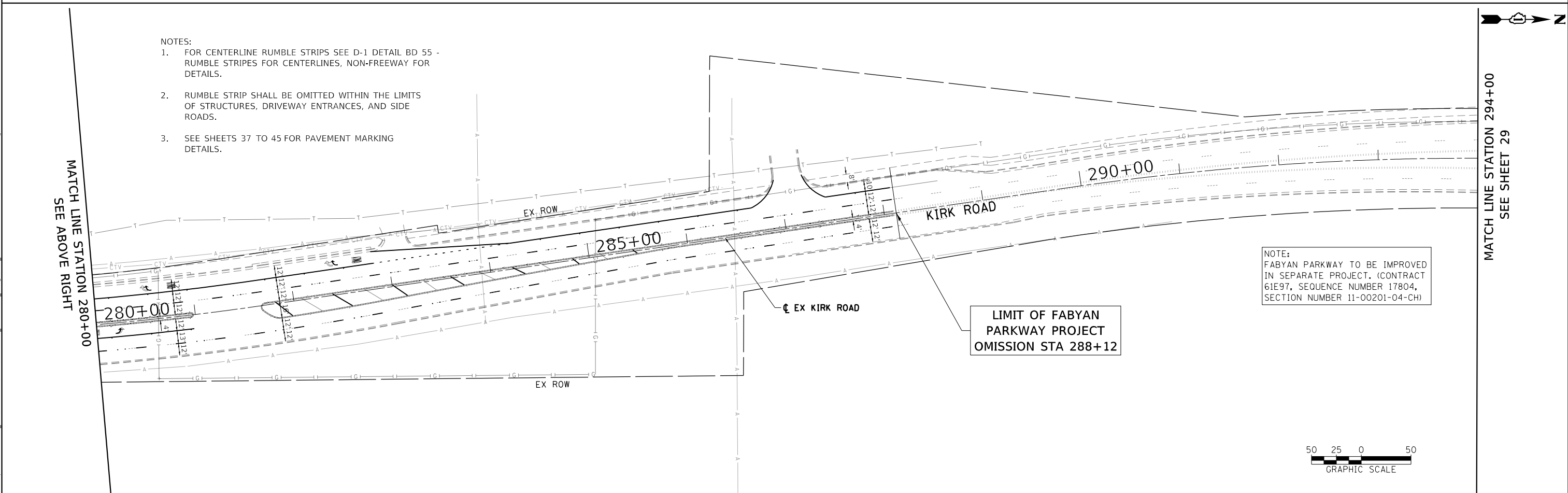
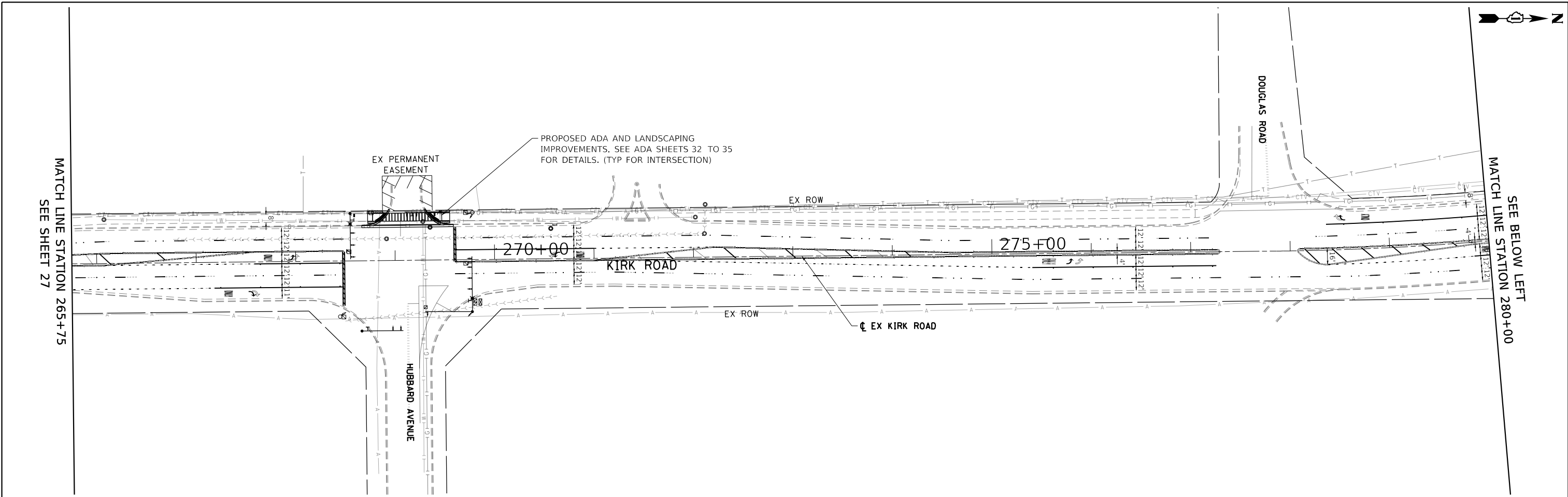
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PROPOSED ROADWAY IMPROVEMENTS  
KIRK ROAD**

SCALE: 1" = 50' SHEET RP-06 OF 9 SHEETS STA. 237+00 TO STA. 265+75

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
360	16-00477-00-5P	KANE	80	27
CONTRACT NO. 61F13				
ILLINOIS FED. AID PROJECT				



- NOTES:
1. FOR CENTERLINE RUMBLE STRIPS SEE D-1 DETAIL BD 55 - RUMBLE STRIPS FOR CENTERLINES, NON-FREEWAY FOR DETAILS.
  2. RUMBLE STRIP SHALL BE OMITTED WITHIN THE LIMITS OF STRUCTURES, DRIVEWAY ENTRANCES, AND SIDE ROADS.
  3. SEE SHEETS 37 TO 45 FOR PAVEMENT MARKING DETAILS.

NOTE:  
 FABYAN PARKWAY TO BE IMPROVED  
 IN SEPARATE PROJECT. (CONTRACT  
 61E97, SEQUENCE NUMBER 17804,  
 SECTION NUMBER 11-00201-04-CH)



MODEL: Default  
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**PATRICK ENGINEERING INC.**  
 4970 VARSITY DRIVE  
 LISLE, IL 60532  
 patrickengineering.com

USER NAME = yrodriguez  
 PLOT SCALE = 100.0000' / in.  
 PLOT DATE = 11/14/2018

DESIGNED - YMR  
 DRAWN - YMR  
 CHECKED - JJC  
 DATE - 11/14/2018

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**PROPOSED ROADWAY IMPROVEMENTS**  
**KIRK ROAD**  
 SCALE: 1" = 50' SHEET RP-07 OF 9 SHEETS STA. 264+75 TO STA. 294+00

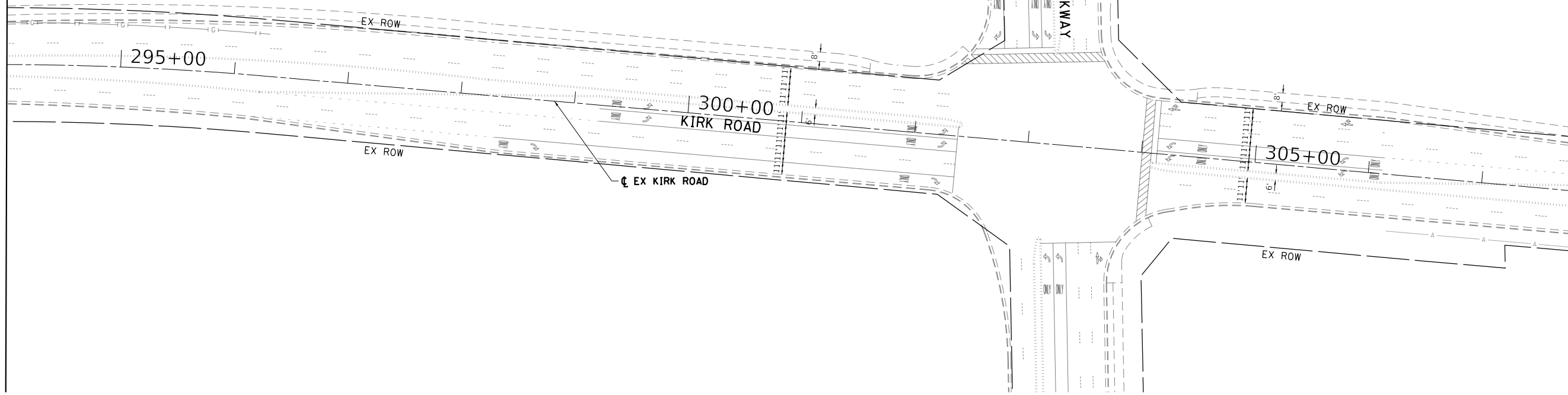
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
360	16-00477-00-5P	KANE	80	28
CONTRACT NO. 61F13				
ILLINOIS FED. AID PROJECT				



NOTE:  
 FABYAN PARKWAY TO BE IMPROVED  
 IN SEPARATE PROJECT. (CONTRACT  
 61E97, SEQUENCE NUMBER 17804,  
 SECTION NUMBER 11-00201-04-CH)

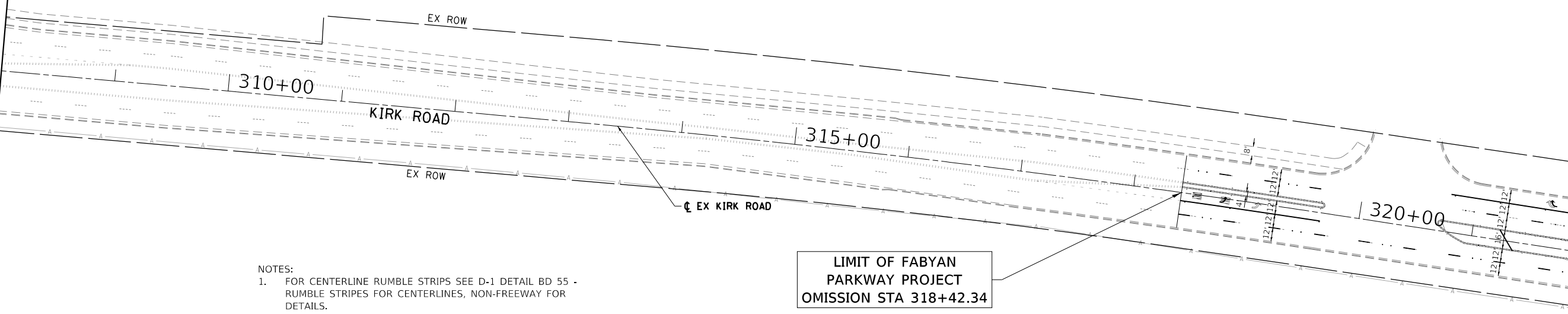
SEE SHEET 28  
 MATCH LINE STATION 294+00

MATCH LINE STATION 308+00  
 SEE BELOW LEFT



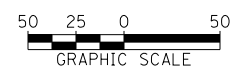
SEE ABOVE RIGHT  
 MATCH LINE STATION 308+00

MATCH LINE STATION 322+00  
 SEE SHEET 30



- NOTES:
1. FOR CENTERLINE RUMBLE STRIPS SEE D-1 DETAIL BD 55 - RUMBLE STRIPS FOR CENTERLINES, NON-FREEWAY FOR DETAILS.
  2. RUMBLE STRIP SHALL BE OMITTED WITHIN THE LIMITS OF STRUCTURES, DRIVEWAY ENTRANCES, AND SIDE ROADS.
  3. SEE SHEETS 37 TO 45 FOR PAVEMENT MARKING DETAILS.

LIMIT OF FABYAN  
 PARKWAY PROJECT  
 OMISSION STA 318+42.34



MODEL: Default  
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**PATRICK ENGINEERING INC.**  
 4970 VARSITY DRIVE  
 LISLE, IL 60532  
 patrickengineering.com

USER NAME = yrodriguez  
 PLOT SCALE = 100.0000' / in.  
 PLOT DATE = 11/14/2018

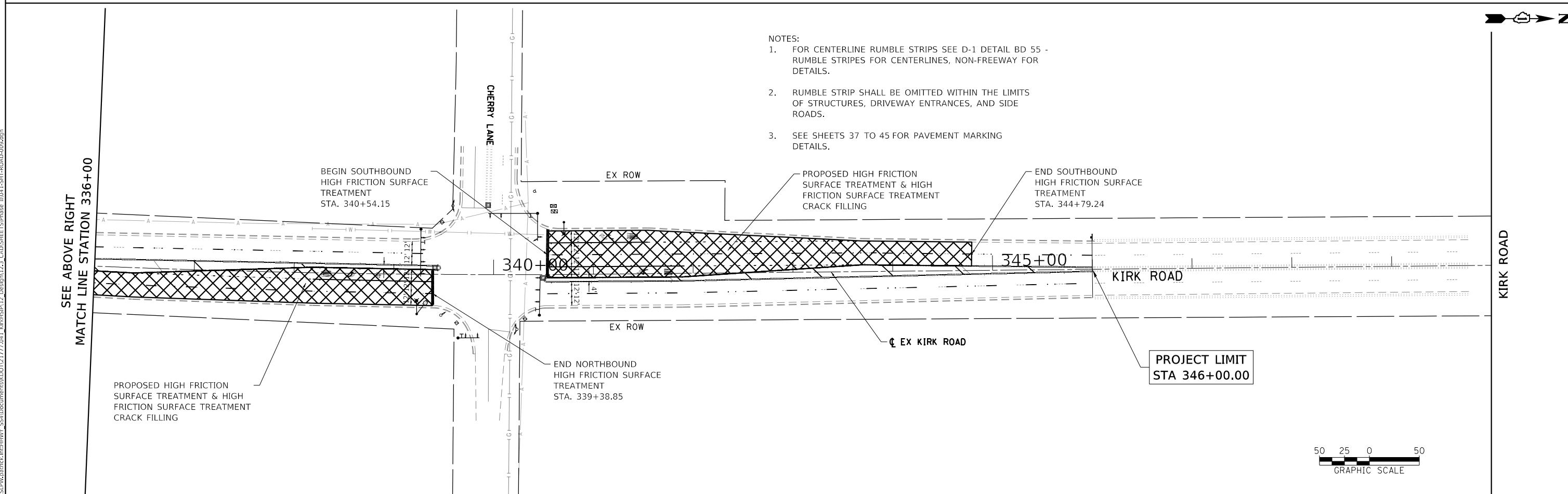
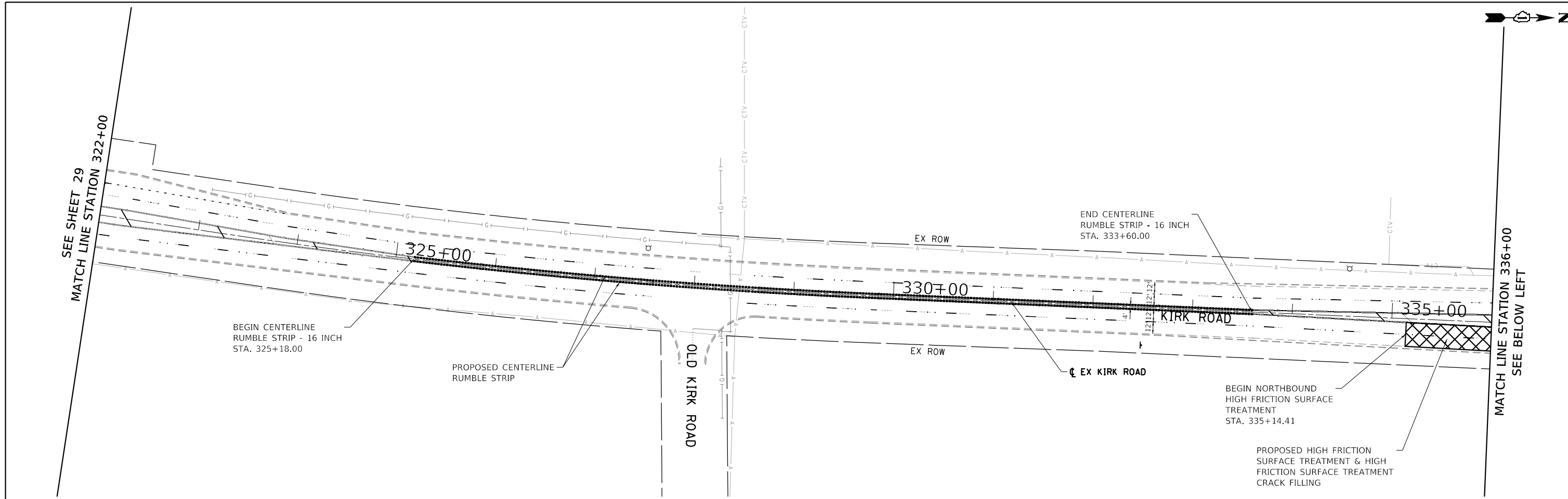
DESIGNED - YMR  
 DRAWN - YMR  
 CHECKED - JJC  
 DATE - 11/14/2018

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

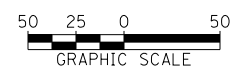
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PROPOSED ROADWAY IMPROVEMENTS  
 KIRK ROAD**  
 SCALE: 1" = 50' SHEET RP-08 OF 9 SHEETS STA. 294+00 TO STA. 322+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
360	16-00477-00-5P	KANE	80	29
CONTRACT NO. 61F13				
ILLINOIS FED. AID PROJECT				



- NOTES:
1. FOR CENTERLINE RUMBLE STRIPS SEE D-1 DETAIL BD 55 - RUMBLE STRIPES FOR CENTERLINES, NON-FREEWAY FOR DETAILS.
  2. RUMBLE STRIP SHALL BE OMITTED WITHIN THE LIMITS OF STRUCTURES, DRIVEWAY ENTRANCES, AND SIDE ROADS.
  3. SEE SHEETS 37 TO 45 FOR PAVEMENT MARKING DETAILS.



MODEL: Default  
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**PATRICK ENGINEERING INC.**  
 4970 VARSITY DRIVE  
 LISLE, IL 60532  
 patrickengineering.com

USER NAME = yrodriguez  
 PLOT SCALE = 100.0000' / in.  
 PLOT DATE = 11/14/2018

DESIGNED - YMR  
 DRAWN - YMR  
 CHECKED - JJC  
 DATE - 11/14/2018

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PROPOSED ROADWAY IMPROVEMENTS  
 KIRK ROAD**

SCALE: 1" = 50'    SHEET RP-09 OF 9 SHEETS    STA. 322+00 TO STA. 350+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
360	16-00477-00-5P	KANE	80	30
CONTRACT NO. 61F13				
ILLINOIS FED. AID PROJECT				

**MAINTENANCE OF TRAFFIC GENERAL NOTES**

1. THE TRAFFIC CONTROL PLANS SHALL SERVE AS A GUIDE FOR SAFE DIVERSION OF TRAFFIC DURING EXECUTION OF THIS CONTRACT. HOWEVER, THE CONTRACTOR MAY MODIFY THE TRAFFIC CONTROL PLANS TO MEET CONSTRUCTION NEEDS, BUT NOT AT THE EXPENSE OF PUBLIC SAFETY OR CONVENIENCE. ANY CHANGES TO THE TRAFFIC CONTROL PLAN SHALL BE SUBMITTED TO THE ENGINEER AND COUNTY FOR APPROVAL.
2. CONTRACTOR SHALL MAINTAIN A MINIMUM OF ONE THROUGH LANE IN EACH DIRECTION THROUGHOUT THE PROJECT AREA AT ALL TIMES.
3. TRAFFIC CONDITIONS, CRASHES, AND OTHER UNFORSEEN EMERGENCY CONDITIONS MAY REQUIRE THE ENGINEER TO RESTRICT, MODIFY, OR REMOVE LANE CLOSURES OR CHANNELIZATION SHOWN IN THE PLANS. THE CONTRACTOR SHALL MAKE THE NECESSARY ADJUSTMENTS AS DIRECTED BY THE ENGINEER WITHOUT DELAY. THE CONTRACTOR SHALL RESPOND TO ANY REQUEST MADE BY THE ENGINEER FOR CORRECTION WITHIN TWO HOURS FROM THE TIME OF NOTIFICATION.
4. THE CONTRACTOR SHALL PROVIDE, INSTALL, MAINTAIN, AND REMOVE ALL SIGNS AND SIGN SUPPORTS REQUIRED FOR TRAFFIC CONTROL AND PROTECTION.
5. CONTRACTOR SHALL ONLY PERFORM LANE CLOSURE OPERATIONS DURING DAYTIME OFF-PEAK WORKING HOURS AS DIRECTED BY THE ENGINEER.
6. ALL EXISTING SIGNS THAT CONFLICT WITH THE TRAFFIC CONTROL PLAN SHALL BE COVERED OR REMOVED BY THE CONTRACTOR IN ACCORDANCE WITH ARTICLE 107.25 OF THE STANDARD SPECIFICATIONS.
7. ALL TEMPORARY ACCESS LOCATIONS SHALL BE SIGNED ACCORDING TO IDOT DISTRICT ONE STANDARD DETAIL TC-26.
8. REFER TO TRAFFIC CONTROL PLAN WITHIN THE PROJECT SPECIFICATIONS FOR ALL TRAFFIC CONTROL RELATED ITEMS.
9. CONTRACTOR SHALL MAINTAIN PEDESTRIAN ACCESS AT ALL TIMES. CONTRACTOR SHALL PROVIDE ADEQUATE SIGNAGE DIRECTING PEDESTRIANS TO AN ALTERNATE ROUTE OR SHALL PROVIDE "ALL WEATHER" ACCESS THROUGHOUT THE DURATION OF SIDEWALK CONSTRUCTION.

THE FOLLOWING STANDARD DETAIL DRAWINGS SHALL BE USED FOR ALL TRAFFIC CONTROL OPERATIONS TO BE PERFORMED FOR THIS PROJECT:

**IDOT HIGHWAY STANDARDS**

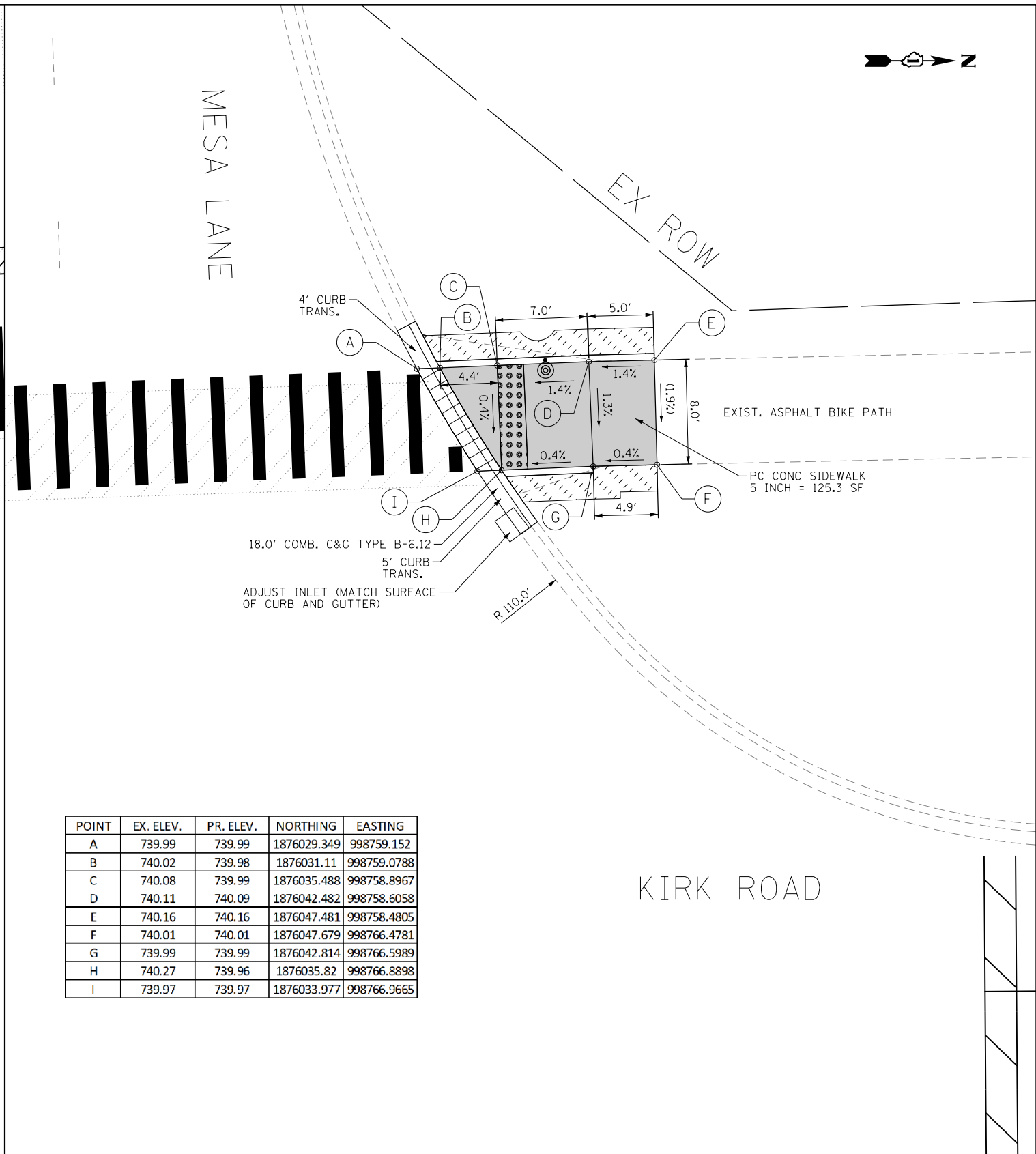
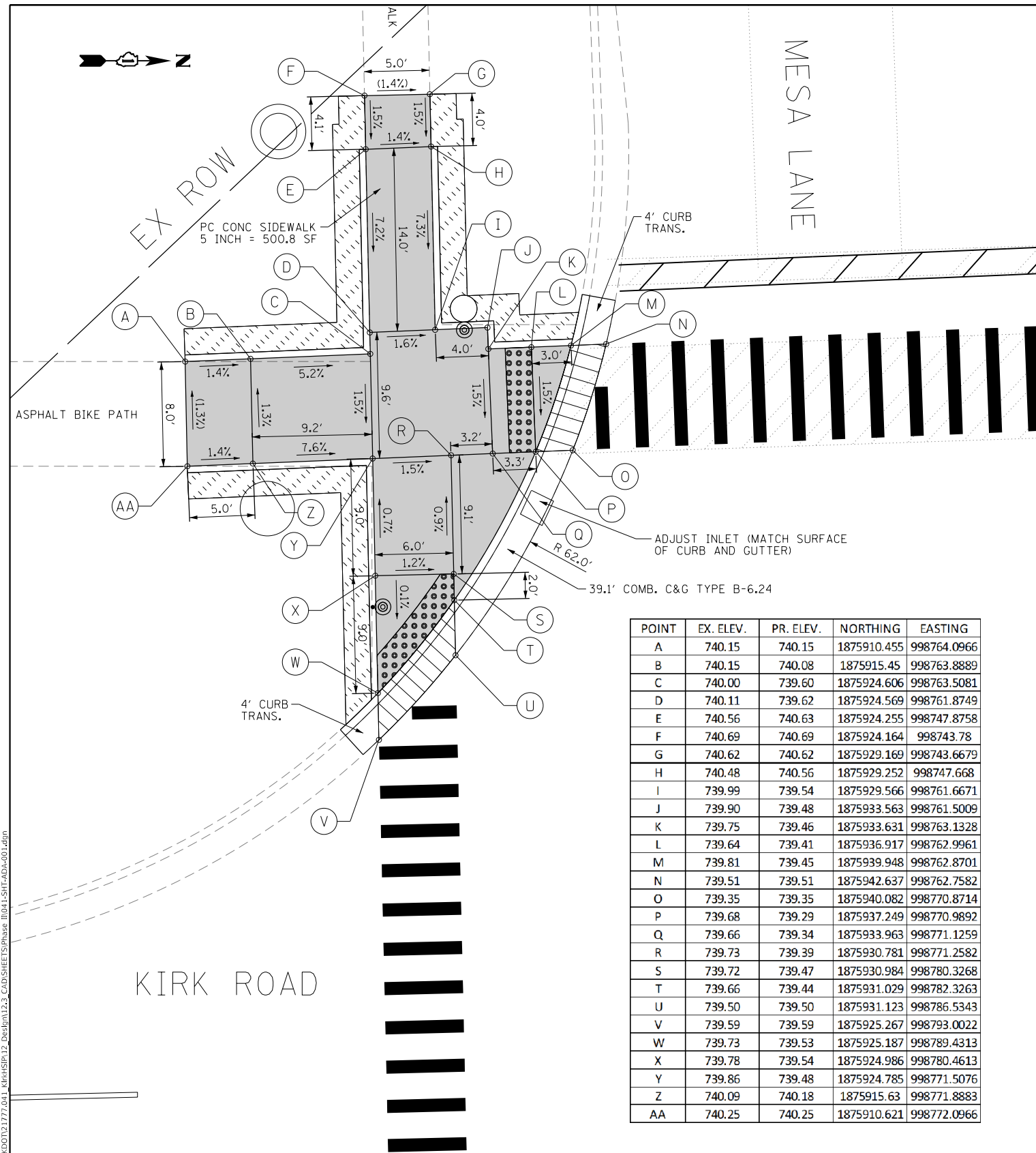
STANDARD NO.	DESCRIPTION
701101-05	OFF-RD OPERATIONS, MULTILANE, 15' TO 24' FROM PAVEMENT EDGE
701421-08	LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY, FOR SPEEDS ≥ 45 MPH TO 55 MPH
701426-09	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS ≥ 45 MPH
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-08	TRAFFIC CONTROL DEVICES

**IDOT DISTRICT 1 DETAILS**

STANDARD NO.	DESCRIPTION
TC-10	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
TC-14	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)
TC-16	SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS
TC-22	ARTERIAL ROAD INFORMATION SIGN
TC-26	DRIVEWAY ENTRANCE SIGNING

MODEL: Default  
 FILE: \\nas01.patrick-engineering.com\Users\yrodri\My Documents\KDOT\1777\041\_KirkRd\12\_CADD\SHEETS\Phase 1\041-SHT-MOT-NOTES.dgn

	PATRICK ENGINEERING INC. 4970 VARSITY DRIVE LISLE, IL 60532 patrickengineering.com	USER NAME = yrodri@patrick-engineering.com DESIGNED - YMR DRAWN - YMR CHECKED - JJC DATE - 11/14/2018	REVISED - REVISED - REVISED - REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>MOT GENERAL NOTES KIRK ROAD</b>	F.A.P. RTE. 360 SECTION 16-00477-00-5P COUNTY KANE TOTAL SHEETS 80 SHEET NO. 31	CONTRACT NO. 61F13 ILLINOIS FED. AID PROJECT
	SCALE: NTS      SHEET MOT-01 OF 1      SHEETS      STA.      TO STA.						



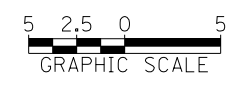
POINT	EX. ELEV.	PR. ELEV.	NORTHING	EASTING
A	740.15	740.15	1875910.455	998764.0966
B	740.15	740.08	1875915.45	998763.8889
C	740.00	739.60	1875924.606	998763.5081
D	740.11	739.62	1875924.569	998761.8749
E	740.56	740.63	1875924.255	998747.8758
F	740.69	740.69	1875924.164	998743.78
G	740.62	740.62	1875929.169	998743.6679
H	740.48	740.56	1875929.252	998747.668
I	739.99	739.54	1875929.566	998761.6671
J	739.90	739.48	1875933.563	998761.5009
K	739.75	739.46	1875933.631	998763.1328
L	739.64	739.41	1875936.917	998762.9961
M	739.81	739.45	1875939.948	998762.8701
N	739.51	739.51	1875942.637	998762.7582
O	739.35	739.35	1875940.082	998770.8714
P	739.68	739.29	1875937.249	998770.9892
Q	739.66	739.34	1875933.963	998771.1259
R	739.73	739.39	1875930.781	998771.2582
S	739.72	739.47	1875930.984	998780.3268
T	739.66	739.44	1875931.029	998782.3263
U	739.50	739.50	1875931.123	998786.5343
V	739.59	739.59	1875925.267	998793.0022
W	739.73	739.53	1875925.187	998789.4313
X	739.78	739.54	1875924.986	998780.4613
Y	739.86	739.48	1875924.785	998771.5076
Z	740.09	740.18	1875915.63	998771.8883
AA	740.25	740.25	1875910.621	998772.0966

POINT	EX. ELEV.	PR. ELEV.	NORTHING	EASTING
A	739.99	739.99	1876029.349	998759.152
B	740.02	739.98	1876031.11	998759.0788
C	740.08	739.99	1876035.488	998758.8967
D	740.11	740.09	1876042.482	998758.6058
E	740.16	740.16	1876047.481	998758.4805
F	740.01	740.01	1876047.679	998766.4781
G	739.99	739.99	1876042.814	998766.5989
H	740.27	739.96	1876035.82	998766.8898
I	739.97	739.97	1876033.977	998766.9665

CONTROL POINT ELEV 744.32  
 CONTROL POINT : MAGNAIL AT NORTH EDGE OF SIDEWALK  
 LOCATION : 261' WEST FROM KIRK ROAD CENTERLINE  
 (N: 1875926.142, E: 998594.812)

**LEGEND**

- PUSH-BUTTON LOCATION
- PROPOSED SIDEWALK
- DETECTABLE WARNINGS
- DEPRESSED CURB AND GUTTER
- SODDING
- PROPOSED SIDE CURB



MODEL: Default  
 FILE: Model: C:\Users\pawar\OneDrive\Documents\KDOT\1777\041\_Kirk4SPR12\_CAD\5SHEETS\Phase 0\041-SHT-ADA-001.dgn

**PATRICK ENGINEERING INC.**  
 4970 VARSITY DRIVE  
 LISLE, IL 60532  
 patrickengineering.com

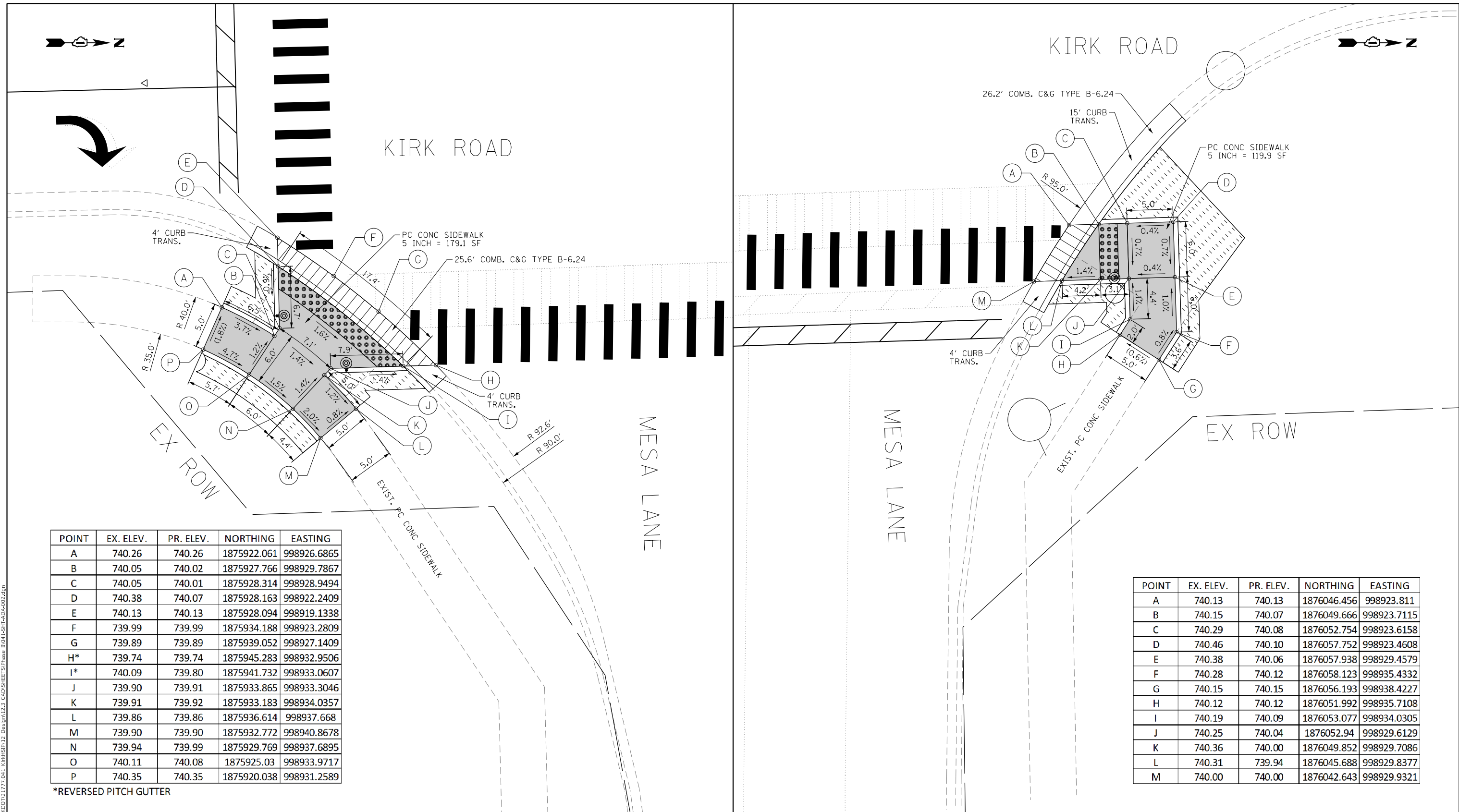
USER NAME = yrodiguez	DESIGNED - AMD	REVISED -
PLOT SCALE = 10.0000' / in.	DRAWN - AMD	REVISED -
PLOT DATE = 11/14/2018	CHECKED - JJC	REVISED -
	DATE - 11/14/2018	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**ADA DETAIL PLANS  
 KIRK ROAD AT MESA LANE**

SCALE: 1" = 5' SHEET ADA-01 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
360	16-00477-00-5P	KANE	80	32
CONTRACT NO. 61F13				
ILLINOIS FED. AID PROJECT				



POINT	EX. ELEV.	PR. ELEV.	NORTHING	EASTING
A	740.26	740.26	1875922.061	998926.6865
B	740.05	740.02	1875927.766	998929.7867
C	740.05	740.01	1875928.314	998928.9494
D	740.38	740.07	1875928.163	998922.2409
E	740.13	740.13	1875928.094	998919.1338
F	739.99	739.99	1875934.188	998923.2809
G	739.89	739.89	1875939.052	998927.1409
H*	739.74	739.74	1875945.283	998932.9506
I*	740.09	739.80	1875941.732	998933.0607
J	739.90	739.91	1875933.865	998933.3046
K	739.91	739.92	1875933.183	998934.0357
L	739.86	739.86	1875936.614	998937.668
M	739.90	739.90	1875932.772	998940.8678
N	739.94	739.99	1875929.769	998937.6895
O	740.11	740.08	1875925.03	998933.9717
P	740.35	740.35	1875920.038	998931.2589

POINT	EX. ELEV.	PR. ELEV.	NORTHING	EASTING
A	740.13	740.13	1876046.456	998923.811
B	740.15	740.07	1876049.666	998923.7115
C	740.29	740.08	1876052.754	998923.6158
D	740.46	740.10	1876057.752	998923.4608
E	740.38	740.06	1876057.938	998929.4579
F	740.28	740.12	1876058.123	998935.4332
G	740.15	740.15	1876056.193	998938.4227
H	740.12	740.12	1876051.992	998935.7108
I	740.19	740.09	1876053.077	998934.0305
J	740.25	740.04	1876052.94	998929.6129
K	740.36	740.00	1876049.852	998929.7086
L	740.31	739.94	1876045.688	998929.8377
M	740.00	740.00	1876042.643	998929.9321

\*REVERSED PITCH GUTTER

CONTROL POINT ELEV 744.32  
 CONTROL POINT : MAGNAIL AT NORTH EDGE OF SIDEWALK  
 LOCATION : 261' WEST FROM KIRK ROAD CENTERLINE  
 (N: 1875926.142, E: 998594.812)

**LEGEND**

- PUSH-BUTTON LOCATION
- PROPOSED SIDEWALK
- DETECTABLE WARNINGS
- DEPRESSED CURB AND GUTTER
- SODDING
- PROPOSED SIDE CURB



MODEL: Default  
 FILE: \\patric\p\p\work\ar\del\hch\HWY\_55\1\Documents\K00701777\041\_KirkRd\SPR12\_Des\plan12\_3\_CAD\5\5HEETS\Phase\_1\041\_SHT-ADA-02.dwg

**PATRICK ENGINEERING INC.**  
 4970 VARSITY DRIVE  
 LISLE, IL 60532  
 patrickengineering.com

USER NAME = yrodiguez	DESIGNED - AMD	REVISED -
PLOT SCALE = 10.0000' / in.	DRAWN - AMD	REVISED -
PLOT DATE = 11/14/2018	CHECKED - JJC	REVISED -
	DATE - 11/14/2018	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**ADA DETAIL PLANS  
 KIRK ROAD AT MESA LANE**

SCALE: 1" = 5'  
 SHEET ADA-02 OF 4 SHEETS STA. TO STA.

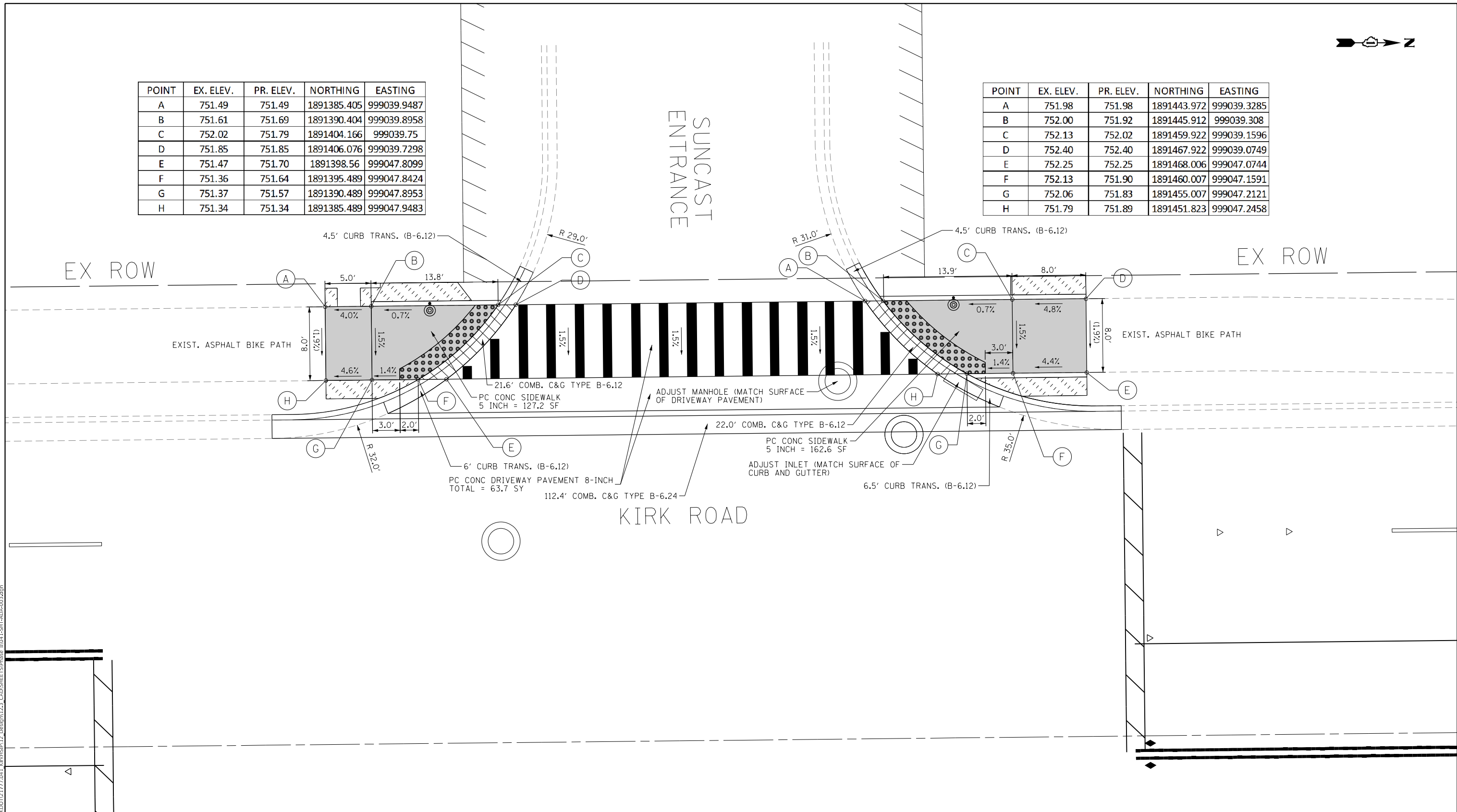
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
360	16-00477-00-5P	KANE	80	33
CONTRACT NO. 61F13				
ILLINOIS FED. AID PROJECT				





POINT	EX. ELEV.	PR. ELEV.	NORTHING	EASTING
A	751.49	751.49	1891385.405	999039.9487
B	751.61	751.69	1891390.404	999039.8958
C	752.02	751.79	1891404.166	999039.75
D	751.85	751.85	1891406.076	999039.7298
E	751.47	751.70	1891398.56	999047.8099
F	751.36	751.64	1891395.489	999047.8424
G	751.37	751.57	1891390.489	999047.8953
H	751.34	751.34	1891385.489	999047.9483

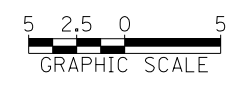
POINT	EX. ELEV.	PR. ELEV.	NORTHING	EASTING
A	751.98	751.98	1891443.972	999039.3285
B	752.00	751.92	1891445.912	999039.308
C	752.13	752.02	1891459.922	999039.1596
D	752.40	752.40	1891467.922	999039.0749
E	752.25	752.25	1891468.006	999047.0744
F	752.13	751.90	1891460.007	999047.1591
G	752.06	751.83	1891455.007	999047.2121
H	751.79	751.89	1891451.823	999047.2458



CONTROL POINT ELEV 753.331  
 CONTROL POINT : MAGNAIL AT SOUTH EDGE OF DRIVEWAY  
 LOCATION : 77.6' WEST FROM KIRK ROAD CENTERLINE  
 (N: 1891401.525, E: 999009.653)

**LEGEND**

- PUSH-BUTTON LOCATION
- DETECTABLE WARNINGS
- SODDING
- PROPOSED SIDEWALK
- DEPRESSED CURB AND GUTTER
- PROPOSED SIDE CURB



MODEL: Default  
 FILE: \\patric... \Public\Projects\6113HWY\_55\Documents\K0017177\041\_KIRKRD12\_3\_CADD\SHEETS\Phase 1\041-SHT-ADA-03.dgn

**PATRICK ENGINEERING INC.**  
 4970 VARSITY DRIVE  
 LISLE, IL 60532  
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USER NAME = yrodiguez  
 PLOT SCALE = 10.0000 "/in.  
 PLOT DATE = 11/14/2018

DESIGNED - AMD  
 DRAWN - AMD  
 CHECKED - JJC  
 DATE - 11/14/2018

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**ADA DETAIL PLANS  
 KIRK ROAD AT HUBBARD AVENUE**

SCALE: 1" = 5' SHEET ADA-03 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
360	16-00477-00-5P	KANE	80	34
CONTRACT NO. 61F13				
ILLINOIS FED. AID PROJECT				

SCHEDULE OF QUANTITIES - PEDESTRIAN RAMPS

CODE NO.	ITEM	UNIT	HUBBARD AVE (NW)	HUBBARD AVE (SW)	MESA LN (NW)	MESA LN (SW)	MESA LN (NE)	MESA LN (SE)	TOTAL
20200100	EARTH EXCAVATION	CU YD	1.6	1.3	1.3	5.0	1.2	1.8	13
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	4.0	4.5	6.2	19.6	14.5	8.1	57
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	0.1	0.1	0.1	0.3	0.2	0.2	1
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	0.1	0.1	0.1	0.3	0.2	0.2	1
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	0.1	0.1	0.1	0.3	0.2	0.2	1
25200110	SODDING, SALT TOLERANT	SQ YD	4.4	5.0	6.8	21.5	15.9	8.9	63
42001300	PROTECTIVE COAT	SQ YD	24.2	20.1	17.1	62.5	17.9	24.4	167
42400200	PORTLAND CEMENT CONCRETE SIDEWALK, 5"	SQ FT	162.6	127.2	125.3	500.8	119.9	179.1	1,215
42400800	DETECTABLE WARNINGS	SQ FT	24.3	23.9	16.0	34.1	12.0	31.1	142
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	35.0	34.0	18.0	39.1	26.2	25.6	178
44000600	SIDEWALK REMOVAL	SQ FT			104.6	361.6	202.6	176.5	846
60260100	INLETS TO BE ADJUSTED	EACH	1		1	1			3
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	22.0	21.6	18.0				62
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT				39.1	26.2	25.6	91
X0327036	BIKE PATH REMOVAL	SQ YD	16.1	13.4	3.6	12.6			46

SCHEDULE OF QUANTITIES - HUBBARD DRIVEWAY REPLACEMENT

CODE NO.	ITEM	UNIT	MEASUREMENT	TOTAL
42001300	PROTECTIVE COAT	SQ YD	96.0	96
42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SQ YD	63.7	64
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	85.2	86
60255500	MANHOLES TO BE ADJUSTED	EACH	1	1
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	112.4	113

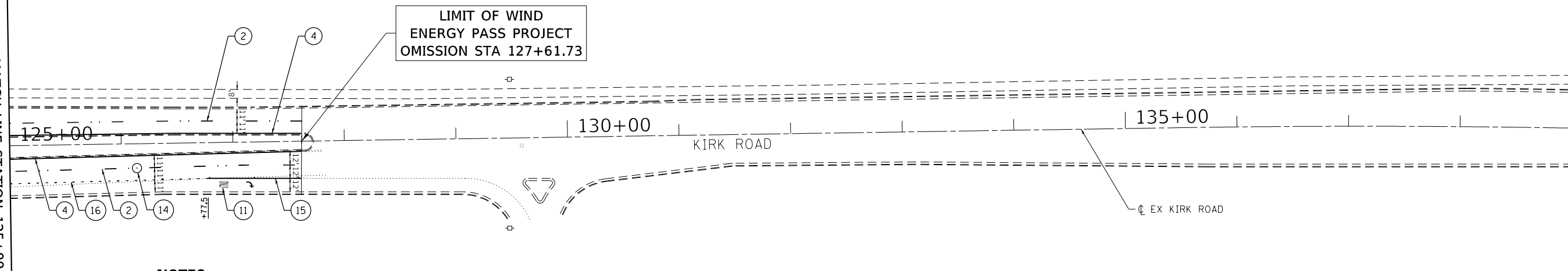
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MATCH LINE STATION 125+00  
SEE SHEET 37



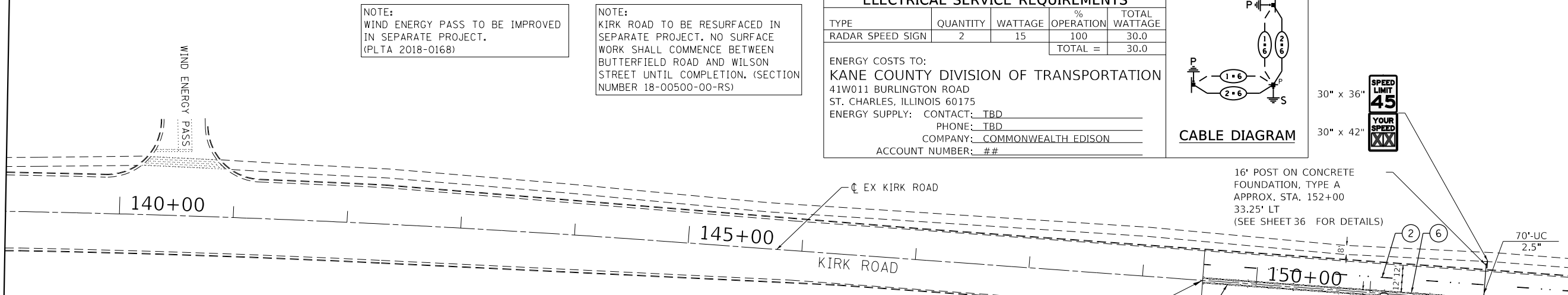
**NOTES**

1. SIGN LOCATIONS ARE APPROXIMATE.
2. ALL RECESSED REFLECTIVE MARKERS SHALL BE REPLACED IN ACCORDANCE WITH TC-11 "TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW PLOW RESISTANT)" STANDARD DETAIL. TC-11 SHALL BE MODIFIED TO REFLECT RECESSED PAVEMENT MARKERS INSTEAD OF RAISED PAVEMENT MARKERS.
3. ALL PERMANENT MARKINGS LAYOUT SHALL BE APPROVED BY KANE COUNTY'S SIGN SHOP COORDINATOR, RAY JOHNSON, 630-406-7356, BEFORE INSTALLATION OPERATIONS BEGIN.



MATCH LINE STATION 139+00  
SEE BELOW LEFT

SEE ABOVE RIGHT  
MATCH LINE STATION 139+00

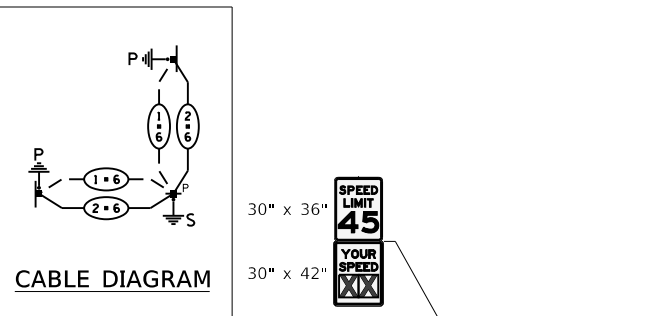


NOTE:  
WIND ENERGY PASS TO BE IMPROVED  
IN SEPARATE PROJECT.  
(PLTA 2018-0168)

NOTE:  
KIRK ROAD TO BE RESURFACED IN  
SEPARATE PROJECT. NO SURFACE  
WORK SHALL COMMENCE BETWEEN  
BUTTERFIELD ROAD AND WILSON  
STREET UNTIL COMPLETION. (SECTION  
NUMBER 18-00500-00-RS)

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS				
TYPE	QUANTITY	WATTAGE	% OPERATION	TOTAL WATTAGE
RADAR SPEED SIGN	2	15	100	30.0
			TOTAL =	30.0

ENERGY COSTS TO:  
KANE COUNTY DIVISION OF TRANSPORTATION  
41W011 BURLINGTON ROAD  
ST. CHARLES, ILLINOIS 60175  
ENERGY SUPPLY: CONTACT: TBD  
PHONE: TBD  
COMPANY: COMMONWEALTH EDISON  
ACCOUNT NUMBER: ##



16' POST ON CONCRETE  
FOUNDATION, TYPE A  
APPROX. STA. 152+00  
33.25' LT  
(SEE SHEET 36 FOR DETAILS)

16' POST ON CONCRETE  
FOUNDATION, TYPE A  
APPROX. STA. 152+00  
39.25' RT  
(SEE SHEET 36 FOR DETAILS)

- ① MODIFIED URETHANE PAVEMENT MARKING - 6" SOLID WHITE (IN 7" GROOVE)
- ② MODIFIED URETHANE PAVEMENT MARKING - 6" WHITE SKIP DASH (10' DASH - 30' SPACE, IN 7" GROOVE)
- ③ MODIFIED URETHANE PAVEMENT MARKING - 6" WHITE SKIP DASH (2' DASH - 6' SPACE)
- ④ MODIFIED URETHANE PAVEMENT MARKING - 6" SOLID YELLOW
- ⑤ MODIFIED URETHANE PAVEMENT MARKING - 6" DOUBLE SOLID YELLOW LINE (13" C-C, IN 7" GROOVE PER LINE)
- ⑥ MODIFIED URETHANE PAVEMENT MARKING - 6" DOUBLE SOLID YELLOW LINE (13" C-C, OVER RUMBLE STRIPS)
- ⑦ MODIFIED URETHANE PAVEMENT MARKING - 12" WHITE GORE MARKING LINE @ 45°
- ⑧ MODIFIED URETHANE PAVEMENT MARKING - 12" YELLOW DIAGONAL MEDIAN LINE @ 45°
- ⑨ MODIFIED URETHANE PAVEMENT MARKING - 12" WHITE CROSSWALK LONGITUDINAL BARS @ 90° (3' C-C)
- ⑩ MODIFIED URETHANE PAVEMENT MARKING - 24" WHITE STOP BAR

- ⑪ MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS
- ⑫ RECESSED REFLECTIVE PAVEMENT MARKER AMBER 1-WAY
- ⑬ RECESSED REFLECTIVE PAVEMENT MARKER AMBER 2-WAY
- ⑭ RECESSED REFLECTIVE PAVEMENT MARKER CRYSTAL 1-WAY
- ⑮ MODIFIED URETHANE PAVEMENT MARKING - 8" SOLID WHITE (IN 9" GROOVE)
- ⑯ MODIFIED URETHANE PAVEMENT MARKING - 8" WHITE SKIP DASH (3' DASH - 9' SPACE)

LIMIT OF WIND  
ENERGY PASS PROJECT  
OMISSION STA 149+52.80

MODEL: Default  
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**PATRICK ENGINEERING INC.**  
4970 VARSITY DRIVE  
LISLE, IL 60532  
patrickengineering.com

USER NAME = yrodiguez  
DESIGNED - YMR  
DRAWN - YMR  
CHECKED - JJC  
DATE - 11/14/2018

DESIGNED - YMR  
DRAWN - YMR  
CHECKED - JJC  
DATE - 11/14/2018

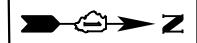
REVISED -  
REVISED -  
REVISED -  
REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND SIGNING PLAN  
KIRK ROAD**

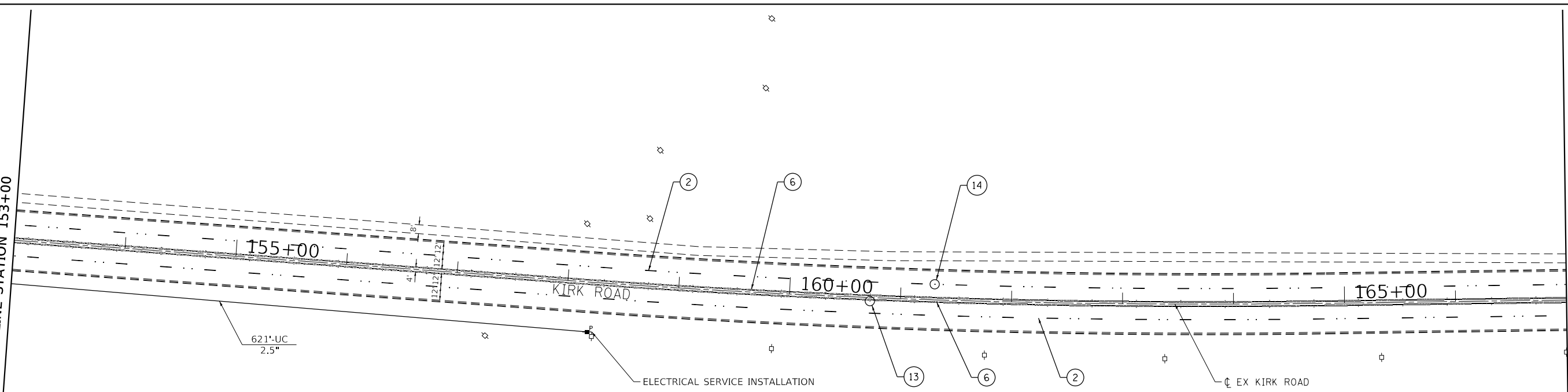
SCALE: 1" = 50' SHEET PMK-03 OF 11 SHEETS STA. 125+00 TO STA. 153+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
360	16-00477-00-5P	KANE	80	38
CONTRACT NO. 61F13				
ILLINOIS FED. AID PROJECT				



SEE SHEET 38  
MATCH LINE STATION 153+00

SEE BELOW LEFT  
MATCH LINE STATION 167+00



**NOTES**

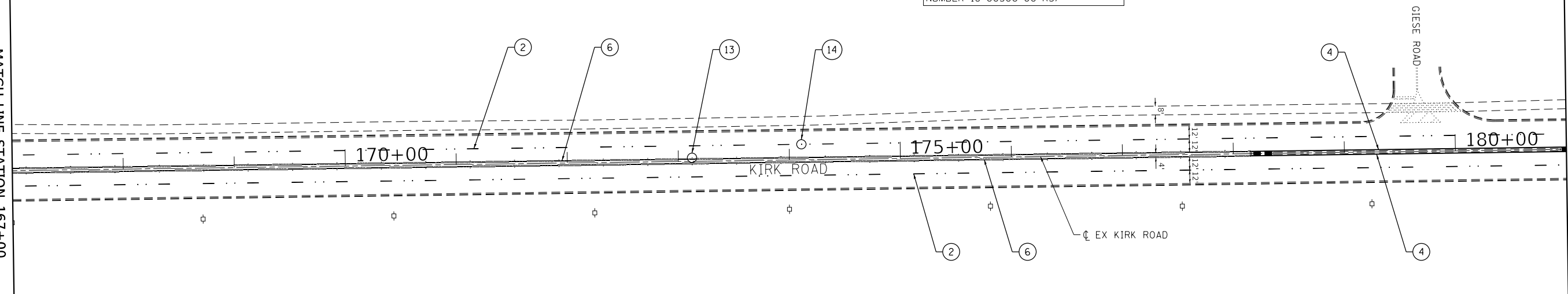
1. SIGN LOCATIONS ARE APPROXIMATE.
2. ALL RECESSED REFLECTIVE MARKERS SHALL BE REPLACED IN ACCORDANCE WITH TC-11 "TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW PLOW RESISTANT)" STANDARD DETAIL. TC-11 SHALL BE MODIFIED TO REFLECT RECESSED PAVEMENT MARKERS INSTEAD OF RAISED PAVEMENT MARKERS.
3. ALL PERMANENT MARKINGS LAYOUT SHALL BE APPROVED BY KANE COUNTY'S SIGN SHOP COORDINATOR, RAY JOHNSON, 630-406-7356, BEFORE INSTALLATION OPERATIONS BEGIN.



NOTE:  
KIRK ROAD TO BE RESURFACED IN SEPARATE PROJECT. NO SURFACE WORK SHALL COMMENCE BETWEEN BUTTERFIELD ROAD AND WILSON STREET UNTIL COMPLETION. (SECTION NUMBER 18-00500-00-RS)

MATCH LINE STATION 167+00  
SEE ABOVE RIGHT

SEE SHEET 40  
MATCH LINE STATION 181+00



- |   |  |  |
|---|--|--|
| ① MODIFIED URETHANE PAVEMENT MARKING - 6" SOLID WHITE (IN 7" GROOVE)                                | ⑥ MODIFIED URETHANE PAVEMENT MARKING - 6" DOUBLE SOLID YELLOW LINE (13" C-C, OVER RUMBLE STRIPS) | ⑪ MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS |
| ② MODIFIED URETHANE PAVEMENT MARKING - 6" WHITE SKIP DASH (10' DASH - 30' SPACE, IN 7" GROOVE)      | ⑦ MODIFIED URETHANE PAVEMENT MARKING - 12" WHITE GORE MARKING LINE @ 45°                         | ⑫ RECESSED REFLECTIVE PAVEMENT MARKER AMBER 1-WAY          |
| ③ MODIFIED URETHANE PAVEMENT MARKING - 6" WHITE SKIP DASH (2' DASH - 6' SPACE)                      | ⑧ MODIFIED URETHANE PAVEMENT MARKING - 12" YELLOW DIAGONAL MEDIAN LINE @ 45°                     | ⑬ RECESSED REFLECTIVE PAVEMENT MARKER AMBER 2-WAY          |
| ④ MODIFIED URETHANE PAVEMENT MARKING - 6" SOLID YELLOW  | ⑨ MODIFIED URETHANE PAVEMENT MARKING - 12" WHITE CROSSWALK LONGITUDINAL BARS @ 90° (3' C-C)      | ⑭ RECESSED REFLECTIVE PAVEMENT MARKER CRYSTAL 1-WAY        |
| ⑤ MODIFIED URETHANE PAVEMENT MARKING - 6" DOUBLE SOLID YELLOW LINE (13" C-C, IN 7" GROOVE PER LINE) | ⑩ MODIFIED URETHANE PAVEMENT MARKING - 24" WHITE STOP BAR  |  |

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**PATRICK ENGINEERING INC.**  
4970 VARSITY DRIVE  
LISLE, IL 60532  
patrickengineering.com

USER NAME = yrodiguez
PLOT SCALE = 100.0000' / in.
PLOT DATE = 11/14/2018

DESIGNED - YMR	REVISD -
DRAWN - YMR	REVISD -
CHECKED - JJC	REVISD -
DATE - 11/14/2018	REVISD -

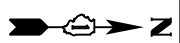
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING AND SIGNING PLAN	
KIRK ROAD	
SCALE: 1" = 50'	SHEET PMK-04 OF 11 SHEETS
STA. 153+00	TO STA. 181+00

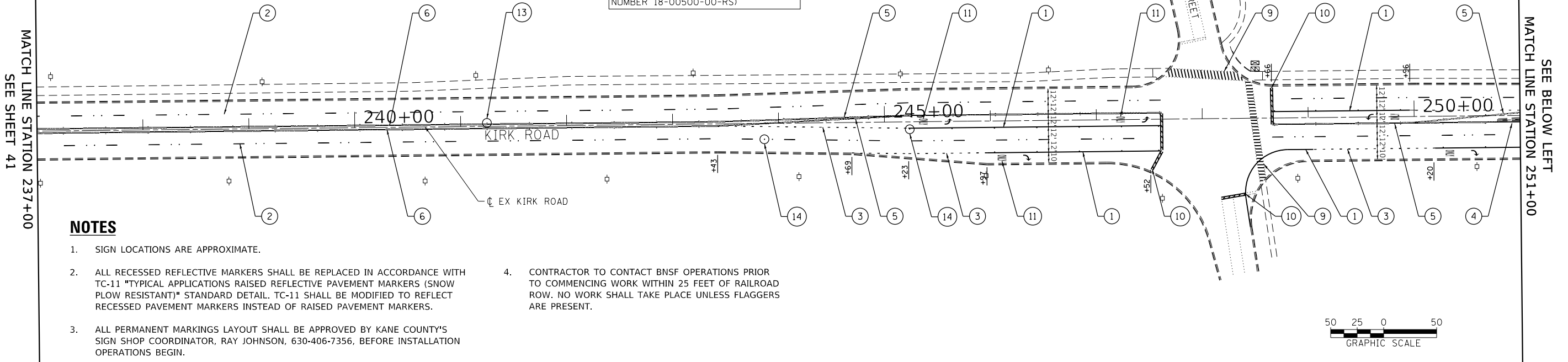
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
360	16-00477-00-5P	KANE	80	39
CONTRACT NO. 61F13				
ILLINOIS FED. AID PROJECT				





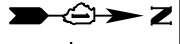


NOTE:  
KIRK ROAD TO BE RESURFACED IN SEPARATE PROJECT. NO SURFACE WORK SHALL COMMENCE BETWEEN BUTTERFIELD ROAD AND WILSON STREET UNTIL COMPLETION. (SECTION NUMBER 18-00500-00-RS)



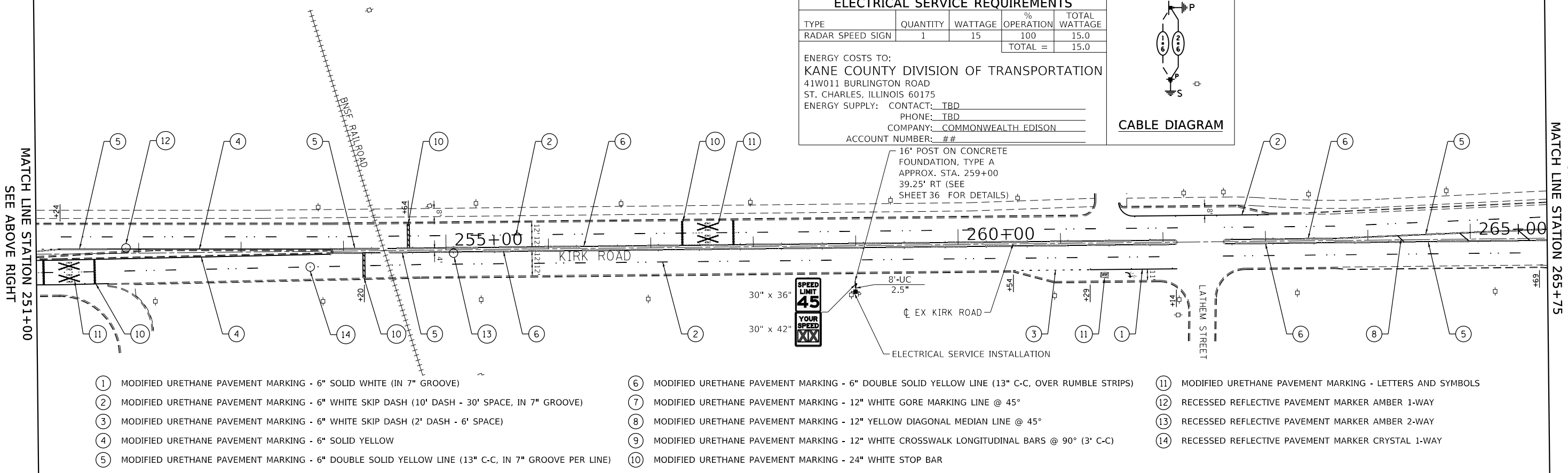
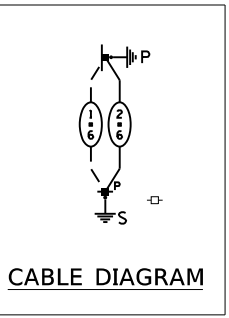
**NOTES**

1. SIGN LOCATIONS ARE APPROXIMATE.
2. ALL RECESSED REFLECTIVE MARKERS SHALL BE REPLACED IN ACCORDANCE WITH TC-11 "TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW PLOW RESISTANT)" STANDARD DETAIL. TC-11 SHALL BE MODIFIED TO REFLECT RECESSED PAVEMENT MARKERS INSTEAD OF RAISED PAVEMENT MARKERS.
3. ALL PERMANENT MARKINGS LAYOUT SHALL BE APPROVED BY KANE COUNTY'S SIGN SHOP COORDINATOR, RAY JOHNSON, 630-406-7356, BEFORE INSTALLATION OPERATIONS BEGIN.
4. CONTRACTOR TO CONTACT BNSF OPERATIONS PRIOR TO COMMENCING WORK WITHIN 25 FEET OF RAILROAD ROW. NO WORK SHALL TAKE PLACE UNLESS FLAGGERS ARE PRESENT.



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS				
TYPE	QUANTITY	WATTAGE	% OPERATION	TOTAL WATTAGE
RADAR SPEED SIGN	1	15	100	15.0
			TOTAL =	15.0

ENERGY COSTS TO:  
KANE COUNTY DIVISION OF TRANSPORTATION  
41W011 BURLINGTON ROAD  
ST. CHARLES, ILLINOIS 60175  
ENERGY SUPPLY: CONTACT: TBD  
PHONE: TBD  
COMPANY: COMMONWEALTH EDISON  
ACCOUNT NUMBER: ##



1. MODIFIED URETHANE PAVEMENT MARKING - 6" SOLID WHITE (IN 7" GROOVE)
2. MODIFIED URETHANE PAVEMENT MARKING - 6" WHITE SKIP DASH (10' DASH - 30' SPACE, IN 7" GROOVE)
3. MODIFIED URETHANE PAVEMENT MARKING - 6" WHITE SKIP DASH (2' DASH - 6' SPACE)
4. MODIFIED URETHANE PAVEMENT MARKING - 6" SOLID YELLOW
5. MODIFIED URETHANE PAVEMENT MARKING - 6" DOUBLE SOLID YELLOW LINE (13" C-C, IN 7" GROOVE PER LINE)
6. MODIFIED URETHANE PAVEMENT MARKING - 6" DOUBLE SOLID YELLOW LINE (13" C-C, OVER RUMBLE STRIPS)
7. MODIFIED URETHANE PAVEMENT MARKING - 12" WHITE GORE MARKING LINE @ 45°
8. MODIFIED URETHANE PAVEMENT MARKING - 12" YELLOW DIAGONAL MEDIAN LINE @ 45°
9. MODIFIED URETHANE PAVEMENT MARKING - 12" WHITE CROSSWALK LONGITUDINAL BARS @ 90° (3' C-C)
10. MODIFIED URETHANE PAVEMENT MARKING - 24" WHITE STOP BAR
11. MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS
12. RECESSED REFLECTIVE PAVEMENT MARKER AMBER 1-WAY
13. RECESSED REFLECTIVE PAVEMENT MARKER AMBER 2-WAY
14. RECESSED REFLECTIVE PAVEMENT MARKER CRYSTAL 1-WAY

MODEL: Default; FILE: \\patric...; PROJECT: \\patric...; SHEET: 12.3; CAD: \\patric...; DATE: 11/14/2018

**PATRICK ENGINEERING INC.**  
4970 VARSITY DRIVE  
LISLE, IL 60532  
patrickengineering.com

USER NAME = yrodiguez	DESIGNED - YMR	REVISED -
PLOT SCALE = 100.0000' / in.	DRAWN - YMR	REVISED -
PLOT DATE = 11/14/2018	CHECKED - JJC	REVISED -
	DATE - 11/14/2018	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND SIGNING PLAN  
KIRK ROAD**  
SCALE: 1" = 50' SHEET PMK-07 OF 11 SHEETS STA. 237+00 TO STA. 265+75

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
360	16-00477-00-5P	KANE	80	42
CONTRACT NO. 61F13				
ILLINOIS FED. AID PROJECT				





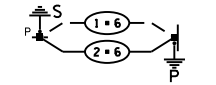


**NOTES**

1. SIGN LOCATIONS ARE APPROXIMATE.
2. ALL RECESSED REFLECTIVE MARKERS SHALL BE REPLACED IN ACCORDANCE WITH TC-11 "TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW PLOW RESISTANT)" STANDARD DETAIL. TC-11 SHALL BE MODIFIED TO REFLECT RECESSED PAVEMENT MARKERS INSTEAD OF RAISED PAVEMENT MARKERS.
3. ALL PERMANENT MARKINGS LAYOUT SHALL BE APPROVED BY KANE COUNTY'S SIGN SHOP COORDINATOR, RAY JOHNSON, 630-406-7356, BEFORE INSTALLATION OPERATIONS BEGIN.

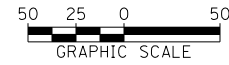
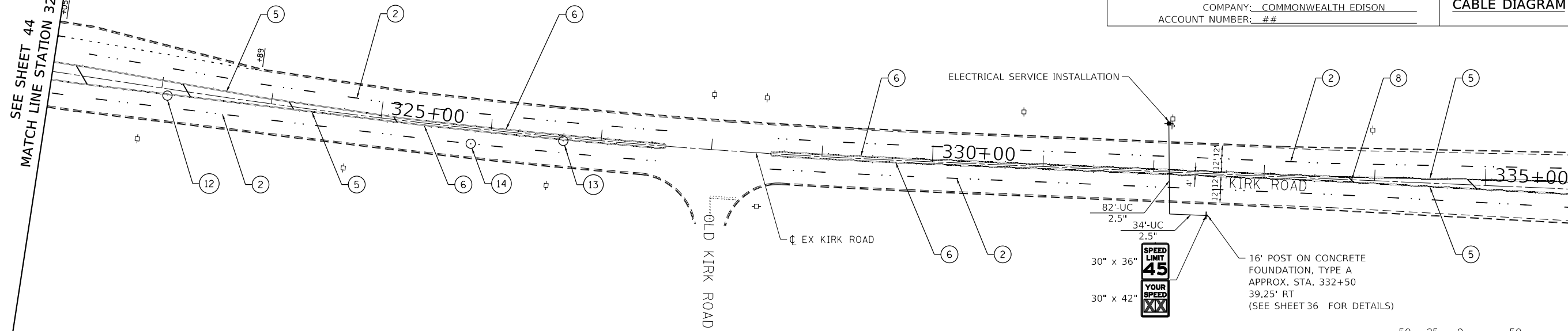
TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS				
TYPE	QUANTITY	WATTAGE	% OPERATION	TOTAL WATTAGE
RADAR SPEED SIGN	1	15	100	15.0
			TOTAL =	15.0

ENERGY COSTS TO:  
 KANE COUNTY DIVISION OF TRANSPORTATION  
 41W011 BURLINGTON ROAD  
 ST. CHARLES, ILLINOIS 60175  
 ENERGY SUPPLY: CONTACT: TBD  
 PHONE: TBD  
 COMPANY: COMMONWEALTH EDISON  
 ACCOUNT NUMBER: ##



CABLE DIAGRAM

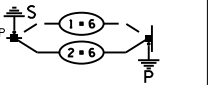
SEE SHEET 44  
MATCH LINE STATION 322+00



MATCH LINE STATION 336+00  
SEE BELOW LEFT

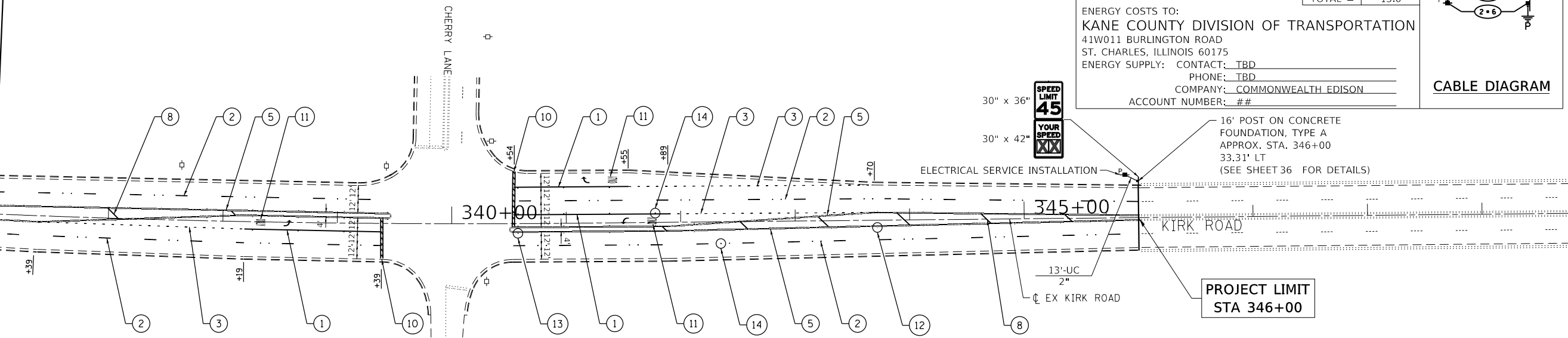
TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS				
TYPE	QUANTITY	WATTAGE	% OPERATION	TOTAL WATTAGE
RADAR SPEED SIGN	1	15	100	15.0
			TOTAL =	15.0

ENERGY COSTS TO:  
 KANE COUNTY DIVISION OF TRANSPORTATION  
 41W011 BURLINGTON ROAD  
 ST. CHARLES, ILLINOIS 60175  
 ENERGY SUPPLY: CONTACT: TBD  
 PHONE: TBD  
 COMPANY: COMMONWEALTH EDISON  
 ACCOUNT NUMBER: ##



CABLE DIAGRAM

SEE ABOVE RIGHT  
MATCH LINE STATION 336+00



- |   |  |  |
|---|--|--|
| ① MODIFIED URETHANE PAVEMENT MARKING - 6" SOLID WHITE (IN 7" GROOVE)                                | ⑥ MODIFIED URETHANE PAVEMENT MARKING - 6" DOUBLE SOLID YELLOW LINE (13" C-C, OVER RUMBLE STRIPS) | ⑪ MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS |
| ② MODIFIED URETHANE PAVEMENT MARKING - 6" WHITE SKIP DASH (10' DASH - 30' SPACE, IN 7" GROOVE)      | ⑦ MODIFIED URETHANE PAVEMENT MARKING - 12" WHITE GORE MARKING LINE @ 45°                         | ⑫ RECESSED REFLECTIVE PAVEMENT MARKER AMBER 1-WAY          |
| ③ MODIFIED URETHANE PAVEMENT MARKING - 6" WHITE SKIP DASH (2' DASH - 6' SPACE)                      | ⑧ MODIFIED URETHANE PAVEMENT MARKING - 12" YELLOW DIAGONAL MEDIAN LINE @ 45°                     | ⑬ RECESSED REFLECTIVE PAVEMENT MARKER AMBER 2-WAY          |
| ④ MODIFIED URETHANE PAVEMENT MARKING - 6" SOLID YELLOW  | ⑨ MODIFIED URETHANE PAVEMENT MARKING - 12" WHITE CROSSWALK LONGITUDINAL BARS @ 90° (3' C-C)      | ⑭ RECESSED REFLECTIVE PAVEMENT MARKER CRYSTAL 1-WAY        |
| ⑤ MODIFIED URETHANE PAVEMENT MARKING - 6" DOUBLE SOLID YELLOW LINE (13" C-C, IN 7" GROOVE PER LINE) | ⑩ MODIFIED URETHANE PAVEMENT MARKING - 24" WHITE STOP BAR  |  |

MATCH LINE STATION 350+00  
SEE BELOW RIGHT

MODEL: Default  
 FILE: \\patric... \S\Projects\KirkRoad\KirkRoad.dwg  
 USER: yrodiguez  
 DATE: 11/14/2018

**PATRICK ENGINEERING INC.**  
 4970 VARSITY DRIVE  
 LISLE, IL 60532  
 patrickengineering.com

USER NAME	= yrodiguez
DESIGNED	- YMR
DRAWN	- YMR
CHECKED	- JJC
DATE	- 11/14/2018

DESIGNED	- YMR	REVISED	-
DRAWN	- YMR	REVISED	-
CHECKED	- JJC	REVISED	-
DATE	- 11/14/2018	REVISED	-

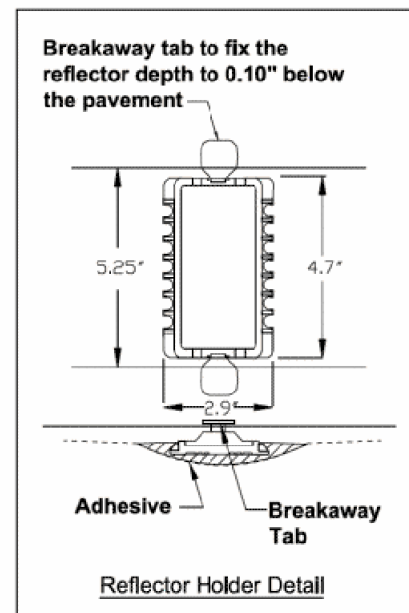
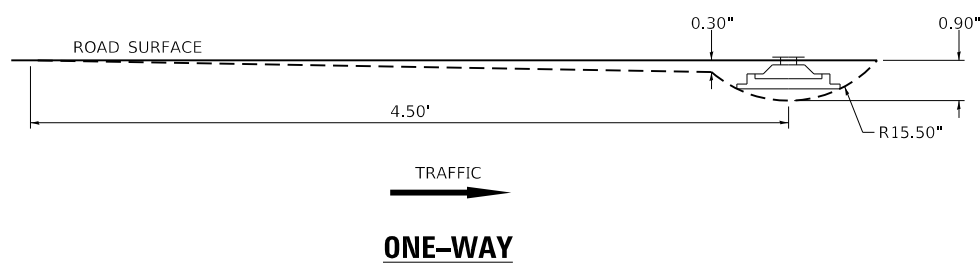
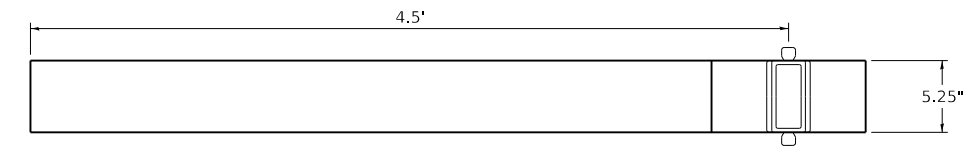
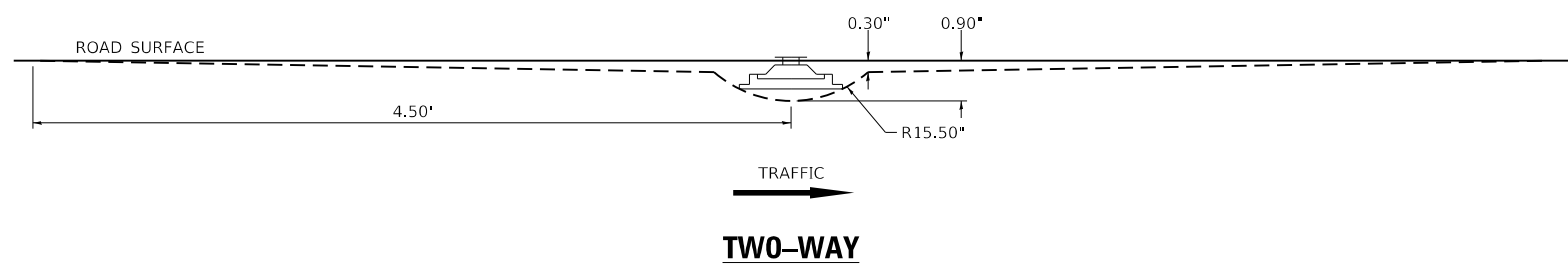
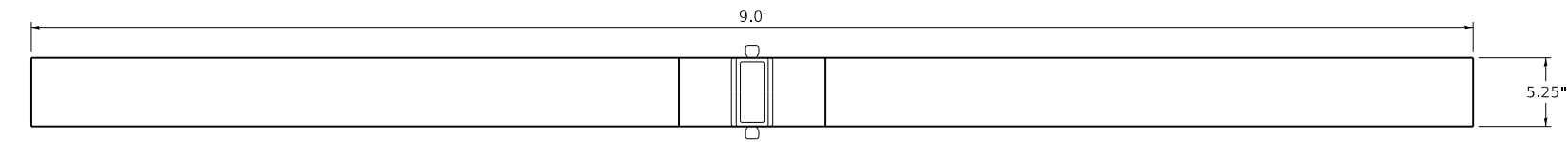
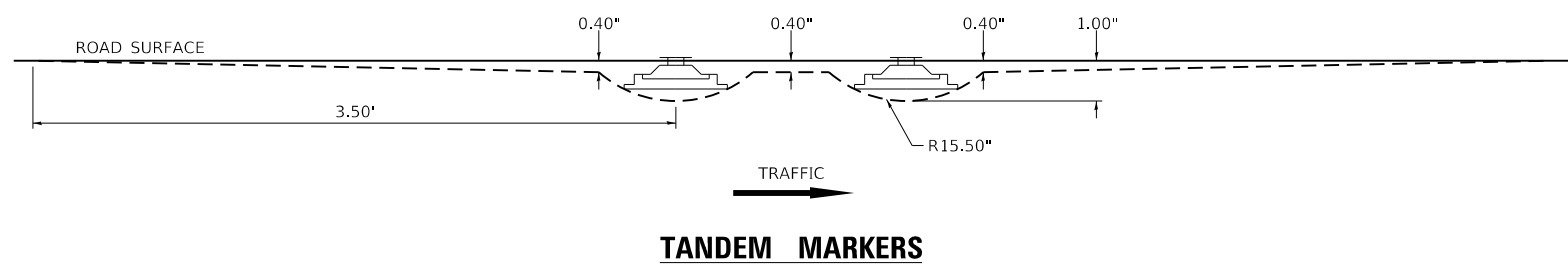
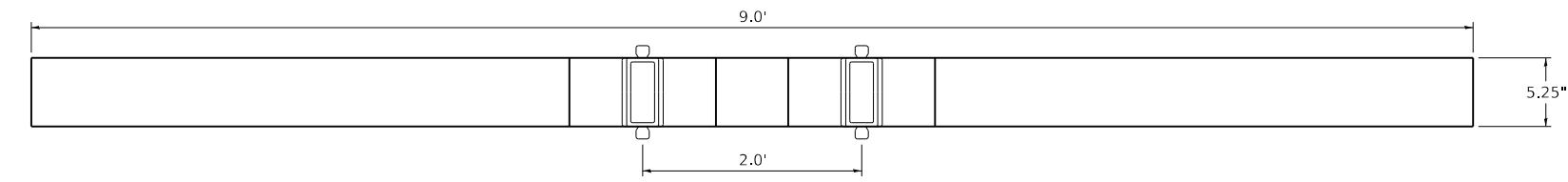
DESIGNED	- YMR	REVISED	-
DRAWN	- YMR	REVISED	-
CHECKED	- JJC	REVISED	-
DATE	- 11/14/2018	REVISED	-

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND SIGNING PLAN  
KIRK ROAD**

SCALE: 1" = 50' SHEET PMK-10 OF 11 SHEETS STA. 322+00 TO STA. 350+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
360	16-00477-00-5P	KANE	80	45
CONTRACT NO. 61F13				
ILLINOIS FED. AID PROJECT				



**NOTES**

1. RECESSED REFLECTIVE PAVEMENT MARKER INSTALLATION SHALL CONFORM TO IDOT HIGHWAY STANDARD 781001 FOR PAVEMENT MARKER PLACEMENT.
2. REFLECTOR HOLDER SHALL BE MARKERONE SERIES R100.
3. THE ADHESIVE SHALL MEET THE REQUIREMENTS OF AASHTO M237 SPECIFICATION FOR ADHESIVES TO BE USED IN CEMENTING TO ASPHALT SURFACES.
4. FOR ONE-WAY MARKERS HEADING UPHILL, UPHILL GRIND TAPER MAY BE OMITTED.
5. MARKERS SHALL BE PLACED AT 80' INTERVALS ON LANE LINES AND PAINTED MEDIANS AND 40' INTERVALS ON CURVES AND APPROACHING INTERSECTIONS OR AS DIRECTED BY THE ENGINEER.
6. SEE SPECIAL PROVISIONS FOR TOLERANCES.

MODEL: Default  
 FILE: \\patric... \S\Projects\KirkRoad\KirkRoad\16-00477-00-5P\Drawings\12\_3\_CADD\SHEETS\Phase 1\041-SHT-PMK-010.dwg  
 USER: yrodiguez

**PATRICK ENGINEERING INC.**  
 4970 VARSITY DRIVE  
 LISLE, IL 60532  
 patrickengineering.com

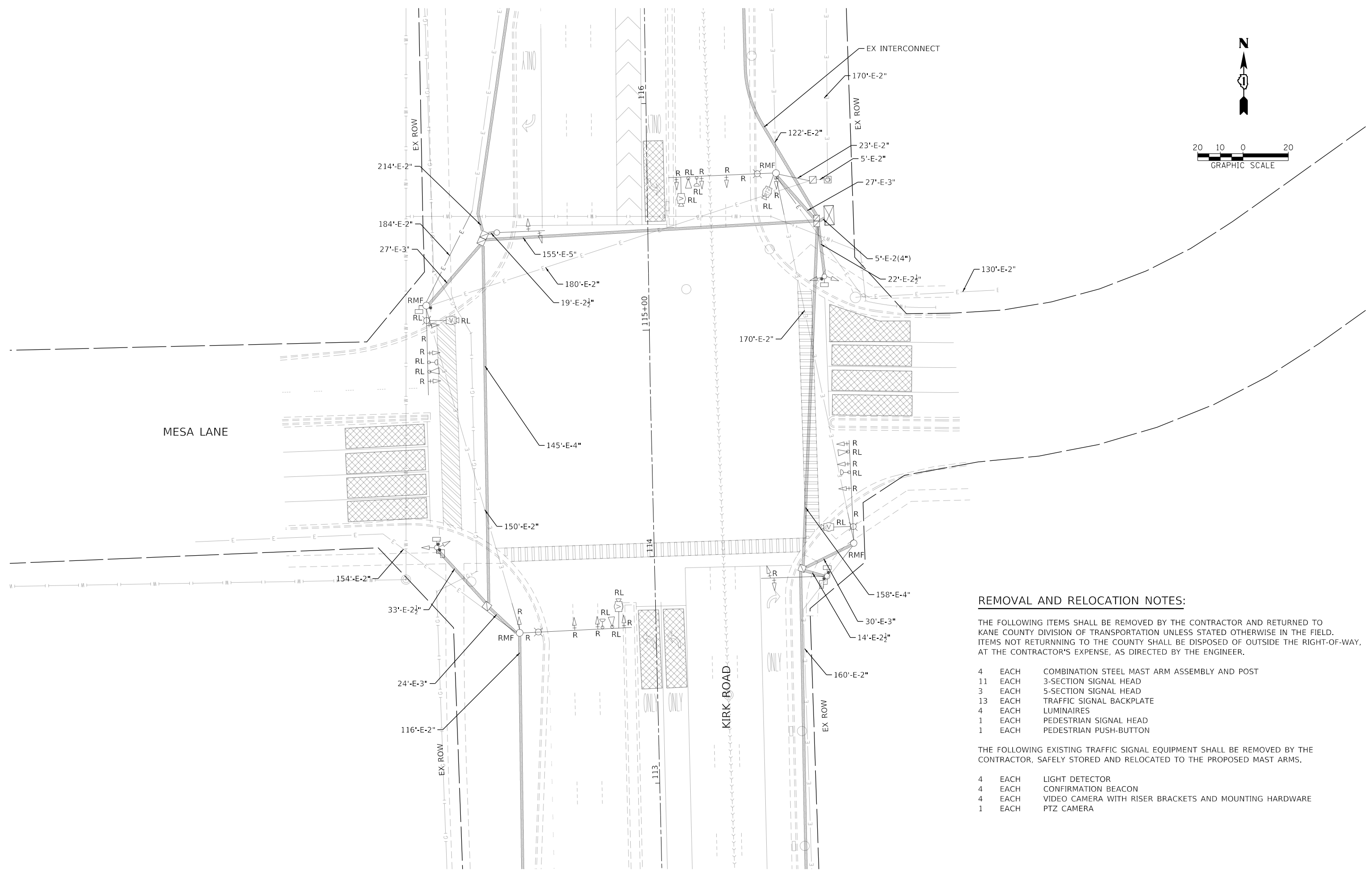
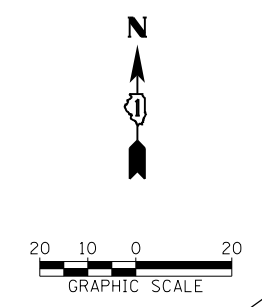
USER NAME = yrodiguez	DESIGNED - YMR	REVISED -
PLOT SCALE = 50.0000' / in.	DRAWN - YMR	REVISED -
PLOT DATE = 11/14/2018	CHECKED - JJC	REVISED -
	DATE - \$DATE	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**KANE COUNTY RECESSED REFLECTIVE PAVEMENT MARKER DETAIL**  
**KIRK ROAD**

SCALE: NTS    SHEET 1 OF 1 SHEETS    STA.    TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
360	16-00477-00-5P	KANE	80	46
CONTRACT NO. 61F13				
ILLINOIS FED. AID PROJECT				



**REMOVAL AND RELOCATION NOTES:**

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND RETURNED TO KANE COUNTY DIVISION OF TRANSPORTATION UNLESS STATED OTHERWISE IN THE FIELD. ITEMS NOT RETURNING TO THE COUNTY SHALL BE DISPOSED OF OUTSIDE THE RIGHT-OF-WAY, AT THE CONTRACTOR'S EXPENSE, AS DIRECTED BY THE ENGINEER.

- 4 EACH COMBINATION STEEL MAST ARM ASSEMBLY AND POST
- 11 EACH 3-SECTION SIGNAL HEAD
- 3 EACH 5-SECTION SIGNAL HEAD
- 13 EACH TRAFFIC SIGNAL BACKPLATE
- 4 EACH LUMINAIRES
- 1 EACH PEDESTRIAN SIGNAL HEAD
- 1 EACH PEDESTRIAN PUSH-BUTTON

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED AND RELOCATED TO THE PROPOSED MAST ARMS.

- 4 EACH LIGHT DETECTOR
- 4 EACH CONFIRMATION BEACON
- 4 EACH VIDEO CAMERA WITH RISER BRACKETS AND MOUNTING HARDWARE
- 1 EACH PTZ CAMERA

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<b>PATRICK ENGINEERING</b>	PATRICK ENGINEERING INC. 4970 VARSITY DRIVE LISLE, IL 60532 patrickengineering.com	
	USER NAME = yrodriguez	DESIGNED - AYJ
	PLOT SCALE = 40.0000' / in.	DRAWN - AYJ
	PLOT DATE = 11/14/2018	CHECKED - JJC

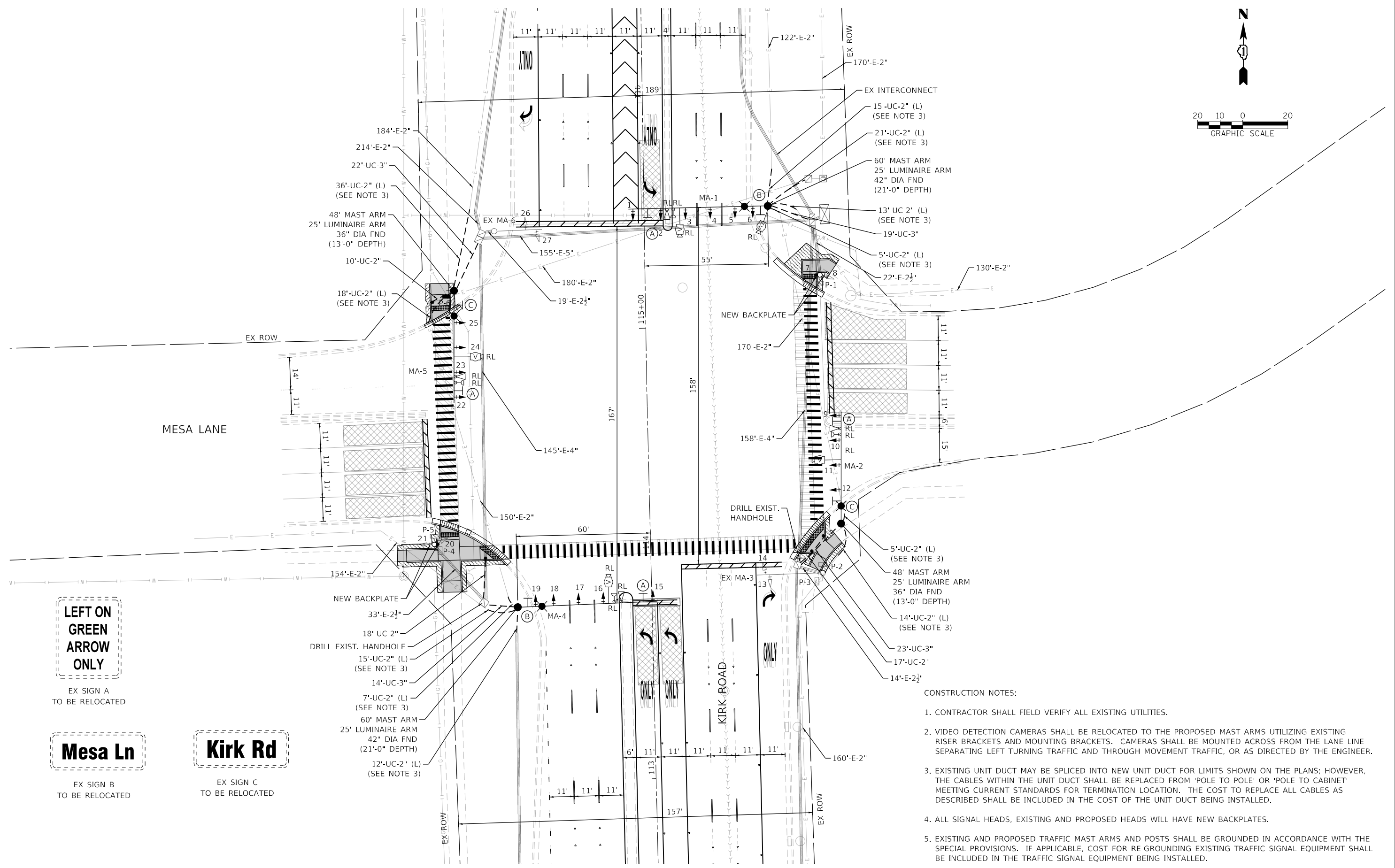
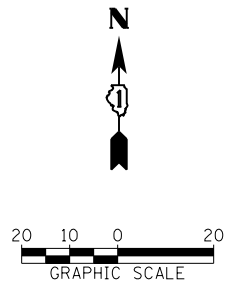
REVISOR	DATE	REVISION

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL REMOVAL PLAN  
KIRK ROAD AND MESA LANE INTERSECTION**

SCALE: 1" = 20'    SHEET TS-01 OF 13 SHEETS    STA.    TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
360	16-00477-00-5P	KANE	80	47
CONTRACT NO. 61F13				
ILLINOIS FED. AID PROJECT				



**LEFT ON GREEN ARROW ONLY**

EX SIGN A TO BE RELOCATED

**Mesa Ln**

EX SIGN B TO BE RELOCATED

**Kirk Rd**

EX SIGN C TO BE RELOCATED

**CONSTRUCTION NOTES:**

1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES.
2. VIDEO DETECTION CAMERAS SHALL BE RELOCATED TO THE PROPOSED MAST ARMS UTILIZING EXISTING RISER BRACKETS AND MOUNTING BRACKETS. CAMERAS SHALL BE MOUNTED ACROSS FROM THE LANE LINE SEPARATING LEFT TURNING TRAFFIC AND THROUGH MOVEMENT TRAFFIC, OR AS DIRECTED BY THE ENGINEER.
3. EXISTING UNIT DUCT MAY BE SPLICED INTO NEW UNIT DUCT FOR LIMITS SHOWN ON THE PLANS; HOWEVER, THE CABLES WITHIN THE UNIT DUCT SHALL BE REPLACED FROM 'POLE TO POLE' OR 'POLE TO CABINET' MEETING CURRENT STANDARDS FOR TERMINATION LOCATION. THE COST TO REPLACE ALL CABLES AS DESCRIBED SHALL BE INCLUDED IN THE COST OF THE UNIT DUCT BEING INSTALLED.
4. ALL SIGNAL HEADS, EXISTING AND PROPOSED HEADS WILL HAVE NEW BACKPLATES.
5. EXISTING AND PROPOSED TRAFFIC MAST ARMS AND POSTS SHALL BE GROUNDED IN ACCORDANCE WITH THE SPECIAL PROVISIONS. IF APPLICABLE, COST FOR RE-GROUNDING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE INCLUDED IN THE TRAFFIC SIGNAL EQUIPMENT BEING INSTALLED.

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**PATRICK ENGINEERING INC.**  
 4970 VARSITY DRIVE  
 LISLE, IL 60532  
 patrickengineering.com

USER NAME = yrodriguez  
 DESIGNED - AYJ  
 DRAWN - AYJ  
 CHECKED - JJC  
 DATE - \$DATE

REVISOR -  
 REVISION -  
 REVISION -  
 REVISION -

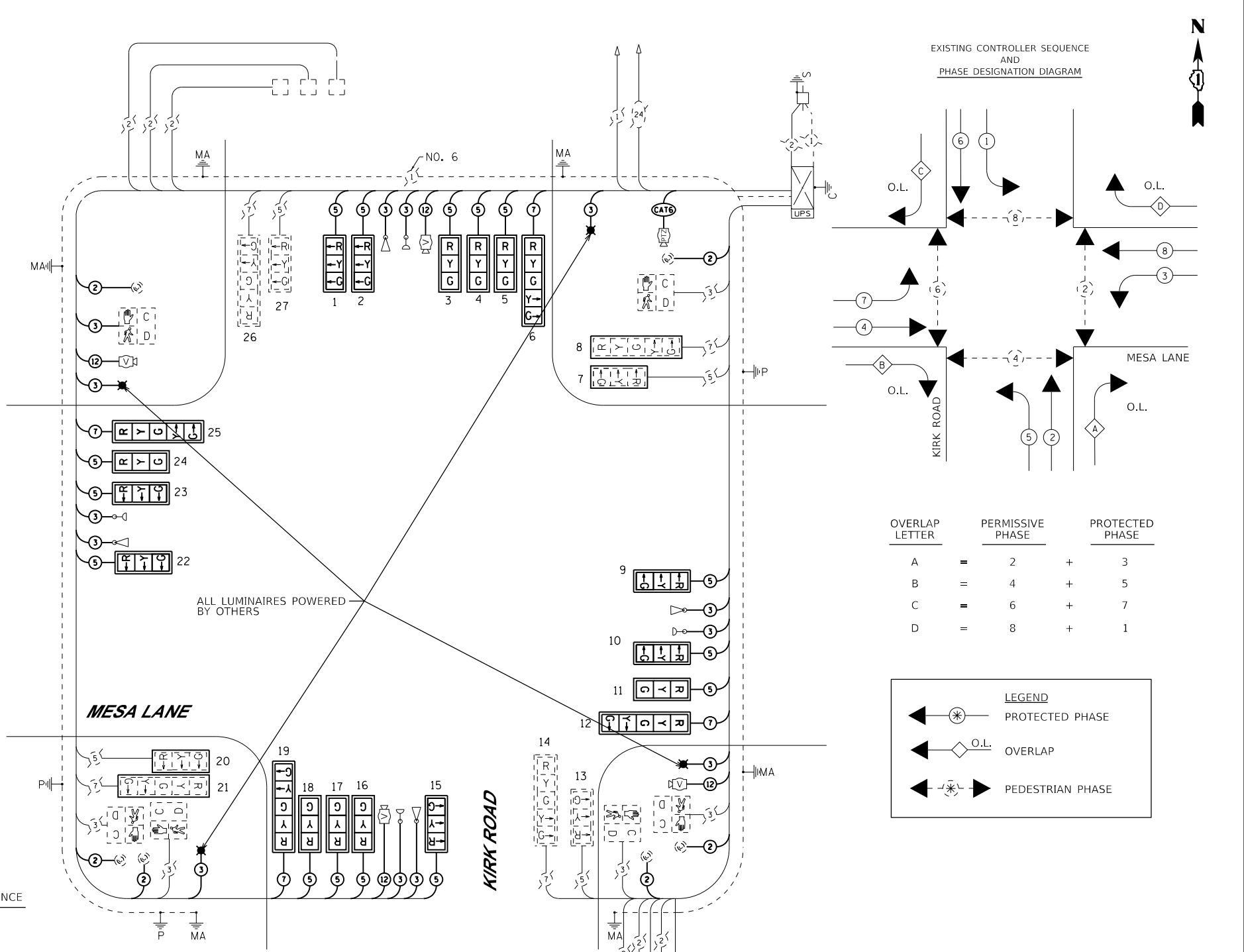
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PROPOSED TRAFFIC SIGNAL PLAN  
 KIRK ROAD AND MESA LANE INTERSECTION**

SCALE: 1" = 20' SHEET TS-02 OF 13 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
360	16-00477-00-5P	KANE	80	48
CONTRACT NO. 61F13				
ILLINOIS FED. AID PROJECT				

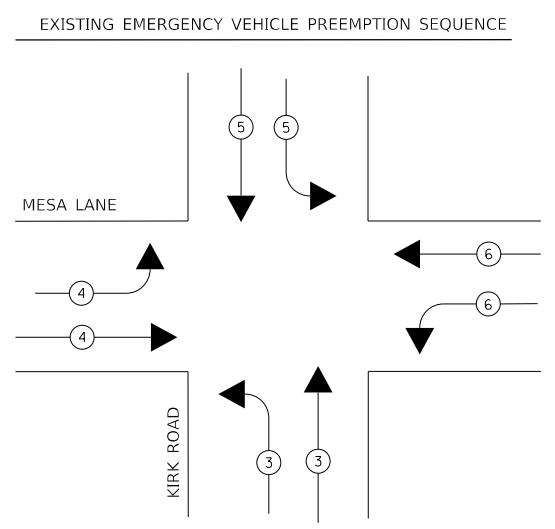
SCHEDULE OF QUANTITIES			
CODE NO.	ITEM	UNIT	TOTAL
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	206
81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	59
81702450	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/2 NO. 10	FOOT	1120
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1466
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	293
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	3799
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1034
87702970	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 48 FT.	EACH	2
87703030	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 60 FT.	EACH	2
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	26
87800420	CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	42
87900100	DRILL EXISTING HANDHOLE	EACH	2
88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	15
88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	4
88200100	TRAFFIC SIGNAL BACKPLATE	EACH	23
89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	6417
89500400	RELOCATE EXISTING PEDESTRIAN PUSH-BUTTON	EACH	6
89501420	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, COMPLETE	EACH	4
89500200	RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	1
89502210	MODIFY EXISTING CONTROLLER CABINET	EACH	1
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	4
X1400102	OUTDOOR RATED NETWORK CABLE	FOOT	67
X0320028	RELOCATE EXISTING CCTV CAMERAS	L SUM	1
X0322765	RELOCATE VIDEO VEHICLE DETECTION SYSTEM	EACH	1
X8760055	PEDESTRIAN PUSH-BUTTON POST, TYPE A	EACH	4
X8211190	LUMINAIRE, LED, HORIZONTAL MOUNT, 190 WATT (SPECIAL)	EACH	4



TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE INCAND.	LED % OPERATION		
SIGNAL (RED)	16	11	50		88.00
(YELLOW)	16	20	5		16.00
(GREEN)	16	12	45		86.40
ARROW (RED)	11	10	50		55.00
(GREEN & YELLOW)	36	10	10		36.00
CONTROLLER	1	100	100		100.00
PED. SIGNAL	6	20	100		120.00
BATTERY BACKUP	1	25	100		25.00
VIDEO SYSTEMS	1	150	100		150.00
TOTAL =					676.40

ENERGY COSTS TO: CITY OF AURORA  
44 E. DOWNERS PLACE

ENERGY SUPPLY: CONTACT: DAVE HUBERTY  
PHONE: 847-608-2342  
COMPANY: COM-ED-ELGIN

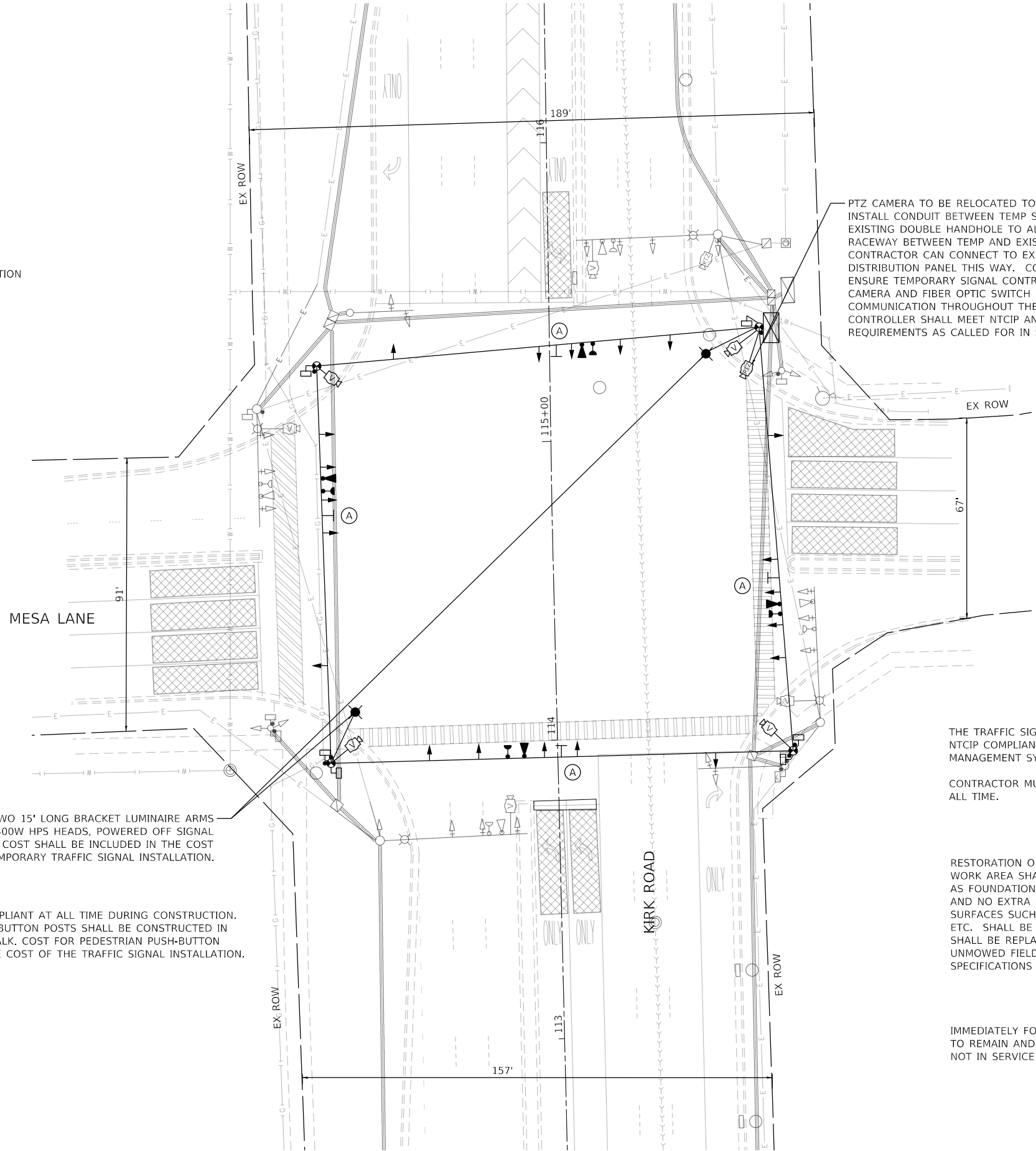
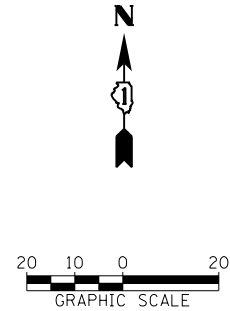


EXISTING EMERGENCY VEHICLE PREEMPTORS				
EMERGENCY VEHICLE PREEMPTOR	3	4	5	6
MOVEMENT	→	↓	↖	↗

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**LEFT ON  
GREEN  
ARROW  
ONLY**

R10-5  
24" x 30"  
4 SIGNS  
COST SHALL BE INCLUDED IN THE COST  
OF THE TEMPORARY TRAFFIC SIGNAL INSTALLATION



PTZ CAMERA TO BE RELOCATED TO TEMP SIGNAL POLE. INSTALL CONDUIT BETWEEN TEMP SIGNAL POLE AND EXISTING DOUBLE HANDHOLE TO ALLOW FOR CABLE RACEWAY BETWEEN TEMP AND EXISTING CABINET. CONTRACTOR CAN CONNECT TO EXISTING FIBER DISTRIBUTION PANEL THIS WAY. CONTRACTOR SHALL ENSURE TEMPORARY SIGNAL CONTROLLER, AND PTZ CAMERA AND FIBER OPTIC SWITCH MAINTAIN COMMUNICATION THROUGHOUT THE PROJECT. CONTROLLER SHALL MEET NTCIP AND KDOT ATMS REQUIREMENTS AS CALLED FOR IN SPECIFICATIONS.

INSTALL TWO 15' LONG BRACKET LUMINAIRE ARMS WITH 400W HPS HEADS, POWERED OFF SIGNAL CABINET. COST SHALL BE INCLUDED IN THE COST OF THE TEMPORARY TRAFFIC SIGNAL INSTALLATION.

PUSH-BUTTON SHALL BE ADA COMPLIANT AT ALL TIME DURING CONSTRUCTION. IF APPLICABLE, PEDESTRIAN PUSH-BUTTON POSTS SHALL BE CONSTRUCTED IN PROXIMITY TO TEMPORARY SIDEWALK. COST FOR PEDESTRIAN PUSH-BUTTON POSTS SHALL BE INCLUDED IN THE COST OF THE TRAFFIC SIGNAL INSTALLATION.

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE NTCIP COMPLIANT USING FIRMWARE COMPATIBLE WITH COUNTY CENTRAL MANAGEMENT SYSTEM.

CONTRACTOR MUST MAINTAIN EXISTING FIBER OPTIC INTERCONNECT AT ALL TIME.

RESTORATION OF WORK AREA. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

IMMEDIATELY FOLLOWING TEMPORARY SIGNAL TURN ON, ALL EXISTING TO REMAIN AND EXISTING TO BE REMOVED SIGNAL HEADS WHICH ARE NOT IN SERVICE SHALL BE BAGGED OR REMOVED THE SAME DAY.

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**PATRICK ENGINEERING INC.**  
4970 VARSITY DRIVE  
LISLE, IL 60532  
patrickengineering.com

USER NAME	= yrodiguez
PLOT SCALE	= 40.0000' / in.
PLOT DATE	= 11/14/2018

DESIGNED	- AYJ
DRAWN	- AYJ
CHECKED	- JJC
DATE	- \$DATE

REVISED	-
REVISED	-
REVISED	-
REVISED	-

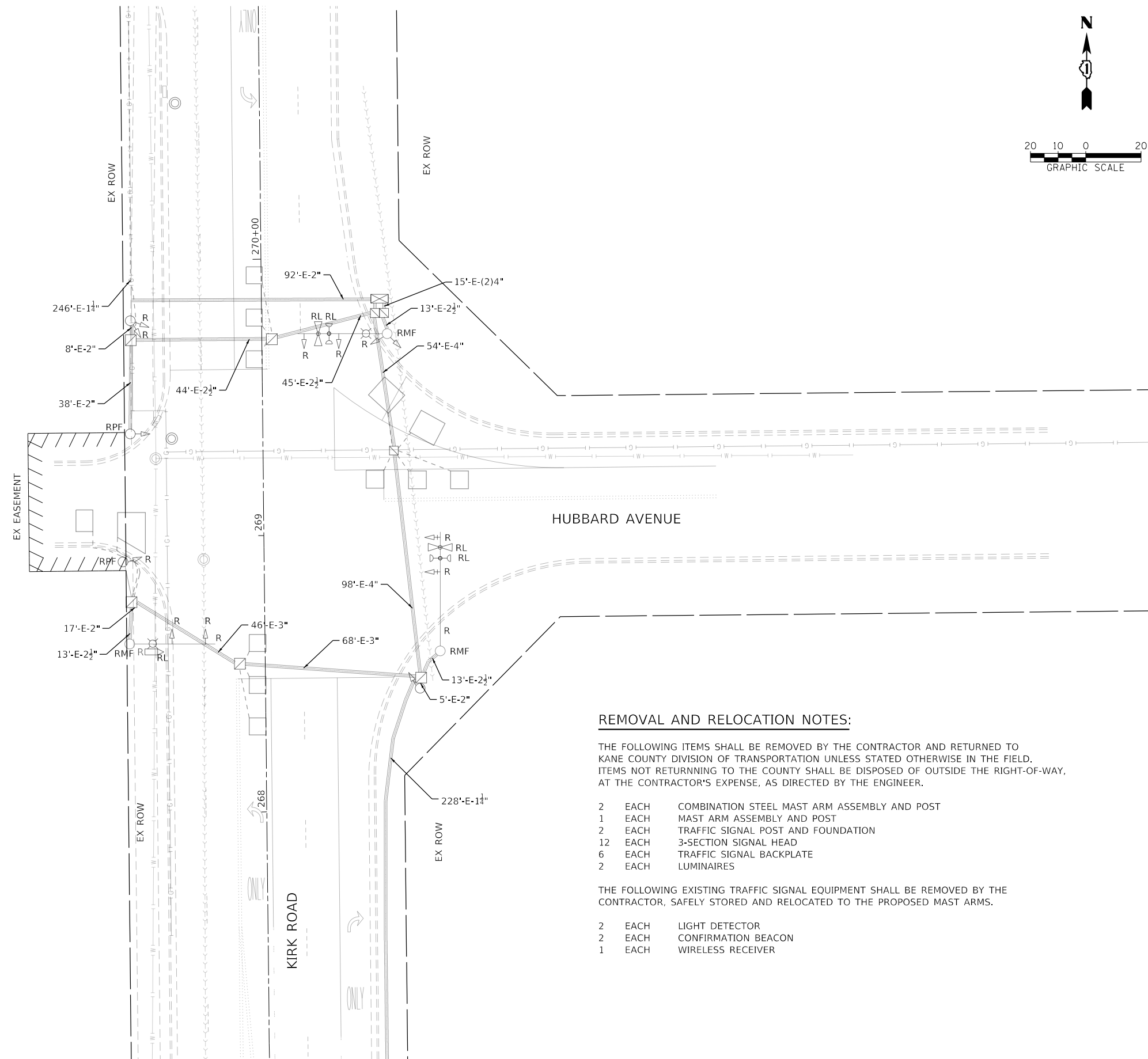
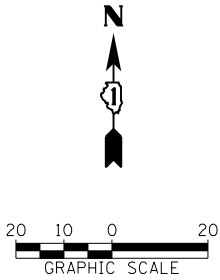
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY TRAFFIC SIGNAL PLAN  
KIRK ROAD**

SCALE: 1" = 20' SHEET TS-04 OF 13 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
360	16-00477-00-5P	KANE	80	50
CONTRACT NO. 61F13				
ILLINOIS FED. AID PROJECT				





**REMOVAL AND RELOCATION NOTES:**

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND RETURNED TO KANE COUNTY DIVISION OF TRANSPORTATION UNLESS STATED OTHERWISE IN THE FIELD. ITEMS NOT RETURNING TO THE COUNTY SHALL BE DISPOSED OF OUTSIDE THE RIGHT-OF-WAY, AT THE CONTRACTOR'S EXPENSE, AS DIRECTED BY THE ENGINEER.

- 2 EACH COMBINATION STEEL MAST ARM ASSEMBLY AND POST
- 1 EACH MAST ARM ASSEMBLY AND POST
- 2 EACH TRAFFIC SIGNAL POST AND FOUNDATION
- 12 EACH 3-SECTION SIGNAL HEAD
- 6 EACH TRAFFIC SIGNAL BACKPLATE
- 2 EACH LUMINAIRES

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED AND RELOCATED TO THE PROPOSED MAST ARMS.

- 2 EACH LIGHT DETECTOR
- 2 EACH CONFIRMATION BEACON
- 1 EACH WIRELESS RECEIVER

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL REMOVAL PLAN  
KIRK ROAD AND HUBBARD AVENUE INTERSECTION**

SCALE: 1" = 20' SHEET TS-06 OF 13 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
360	16-00477-00-5P	KANE	80	52
CONTRACT NO. 61F13				
ILLINOIS FED. AID PROJECT				

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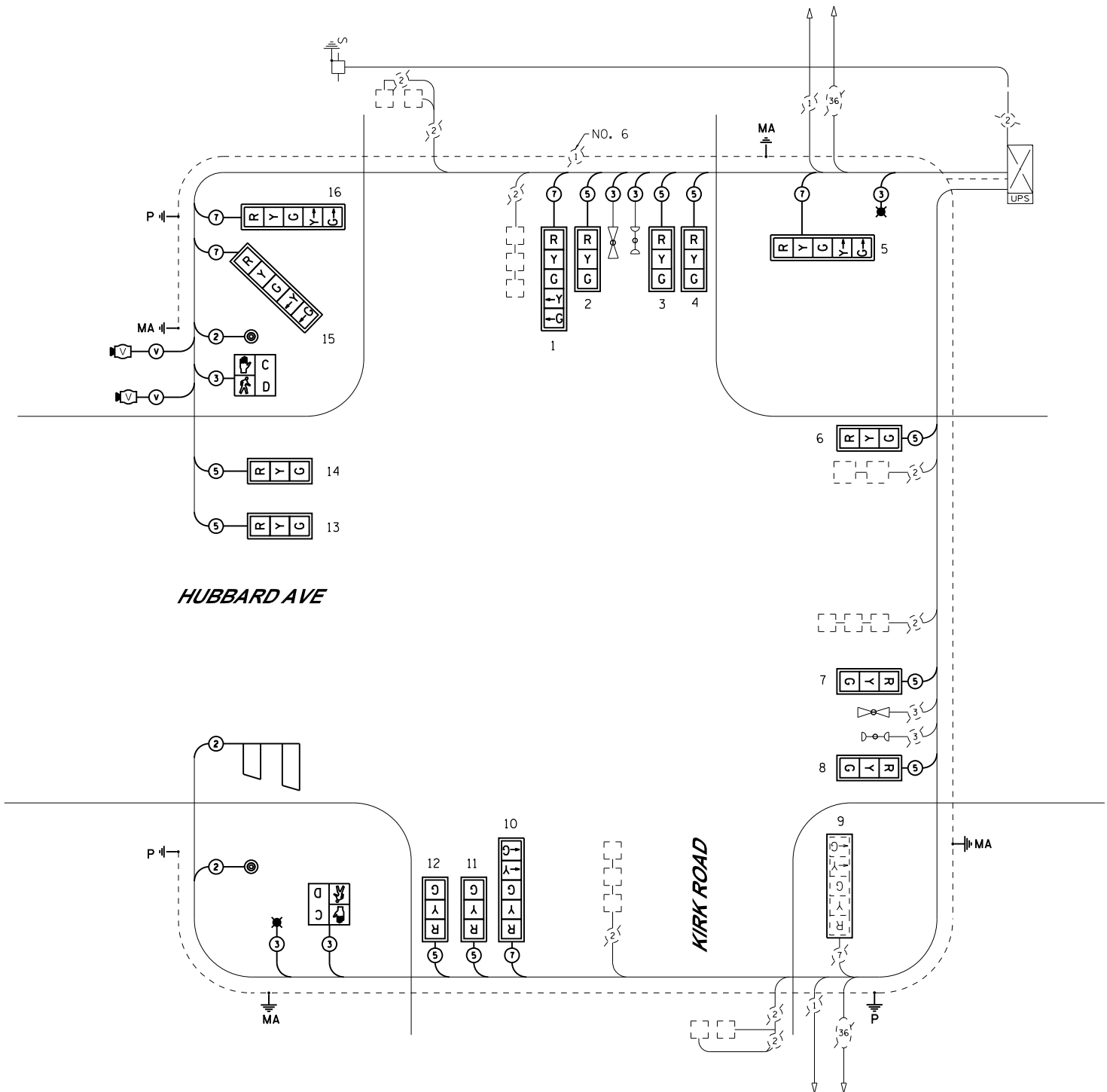
**PATRICK ENGINEERING**  
 PATRICK ENGINEERING INC.  
 4970 VARSITY DRIVE  
 LISLE, IL 60532  
 patrickengineering.com

USER NAME = yrodriguez	DESIGNED - AYJ	REVISED -
PLOT SCALE = 40.0000 ' / in.	DRAWN - AYJ	REVISED -
PLOT DATE = 11/14/2018	CHECKED - JJC	REVISED -
	DATE - \$DATE	REVISED -





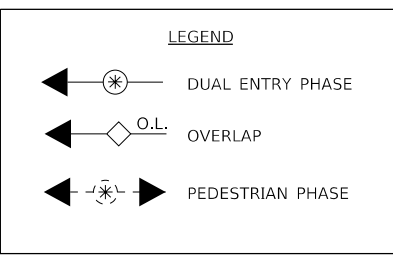
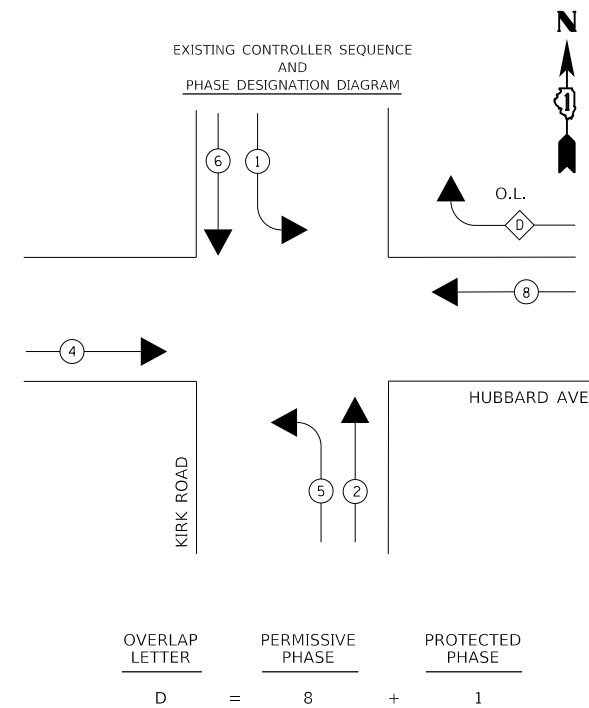
SCHEDULE OF QUANTITIES			
CODE NO.	ITEM	UNIT	TOTAL
72000100	STGN PANEL - TYPE 1	SF	8
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	6
81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	46
81702450	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 10	FOOT	517
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	516
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	510
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2164
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	910
87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL, 16 FT	EACH	1
87700210	STEEL MAST ARM ASSEMBLY AND POLE, 34 FT	EACH	1
87700240	STEEL MAST ARM ASSEMBLY AND POLE, 40 FT	EACH	1
87702960	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 46 FT.	EACH	1
87704554	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 54 FT. AND 46 FT.	EACH	1
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	53
88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	10
88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	5
88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
88200100	TRAFFIC SIGNAL BACKPLATE	EACH	16
88600600	DETECTOR LOOP REPLACEMENT	FOOT	74
88800100	PEDESTRIAN PUSH-BUTTON	EACH	2
89501420	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, COMPLETE	EACH	2
89502210	MODIFY EXISTING CONTROLLER CABINET	EACH	1
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1915
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	4
X0325479	RELOCATE EXISTING ITS EQUIPMENT TYPE A	EACH	1
X0326885	VIDEO DETECTION SYSTEM	EACH	1
X8760055	PEDESTRIAN PUSH-BUTTON POST	EACH	2
X8211190	LUMINAIRE, LED, HORIZONTAL MOUNT, 190 WATT (SPECIAL)	EACH	2



HUBBARD AVE

KIRK ROAD

**PROPOSED CABLE PLAN**  
**KIRK ROAD AND HUBBARD AVENUE INTERSECTION**  
 (N.T.S.)



TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE INCAND.	LED	% OPERATION	
SIGNAL (RED)	16		11	50	88.00
(YELLOW)	16		20	5	16.00
(GREEN)	16		12	45	86.40
(GREEN & YELLOW)	12		10	10	12.00
CONTROLLER	1		100	100	100.00
PED. SIGNAL	2		20	100	40.00
BATTERY BACKUP	1		25	100	25.00
LUMINAIRE	2		190	50	190.00
VIDEO SYSTEMS	1		150	100	150.00
TOTAL =					707.40

ENERGY COSTS TO: CITY OF BATAVIA  
 200 N RADDANT ROAD

ENERGY SUPPLY: CONTACT: ELECTRIC UTILITY DIVISION  
 PHONE: 630-454-2350  
 COMPANY: CITY OF BATAVIA

**PATRICK ENGINEERING INC.**  
 4970 VARSITY DRIVE  
 LISLE, IL 60532  
 patrickengineering.com

USER NAME = yrodiguez

DESIGNED - AYJ  
 DRAWN - AYJ  
 CHECKED - JJC  
 DATE - SDATE

REVISIED -  
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 REVISIED -

PLOT SCALE = 40,0000 "/>

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**PROPOSED CABLE PLAN**  
**KIRK ROAD AND HUBBARD AVENUE INTERSECTION**

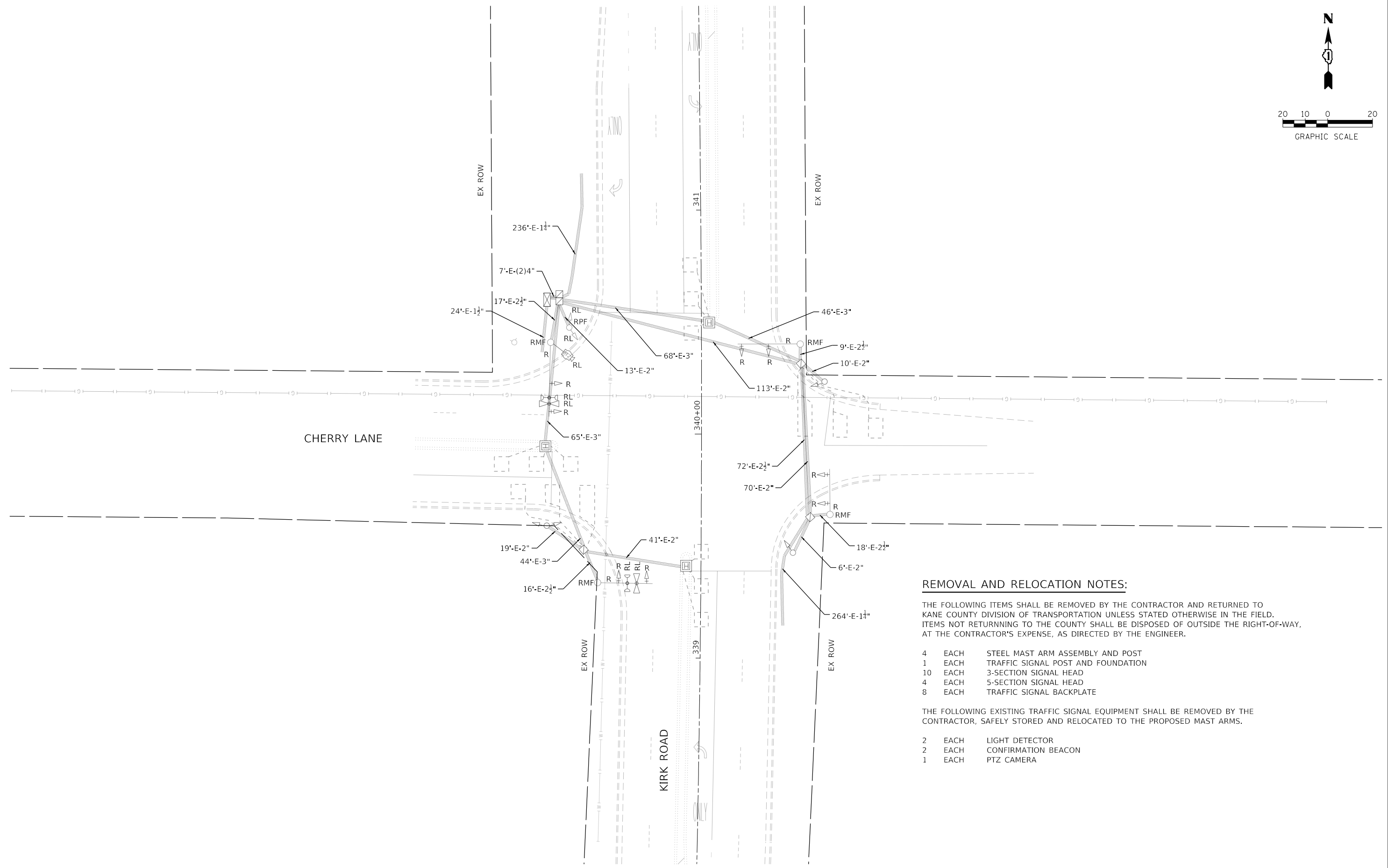
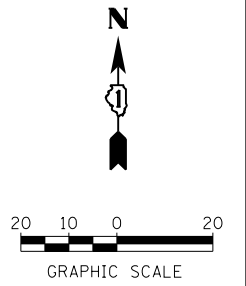
SCALE: 1" = 20' SHEET TS-08 OF 13 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
360	16-00477-00-5P	KANE	80	54

CONTRACT NO. 61F13

ILLINOIS FED. AID PROJECT

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 USER: yrodiguez  
 PLOT DATE: 11/14/2018



THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND RETURNED TO KANE COUNTY DIVISION OF TRANSPORTATION UNLESS STATED OTHERWISE IN THE FIELD. ITEMS NOT RETURNING TO THE COUNTY SHALL BE DISPOSED OF OUTSIDE THE RIGHT-OF-WAY, AT THE CONTRACTOR'S EXPENSE, AS DIRECTED BY THE ENGINEER.

- 4 EACH STEEL MAST ARM ASSEMBLY AND POST
- 1 EACH TRAFFIC SIGNAL POST AND FOUNDATION
- 10 EACH 3-SECTION SIGNAL HEAD
- 4 EACH 5-SECTION SIGNAL HEAD
- 8 EACH TRAFFIC SIGNAL BACKPLATE

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED AND RELOCATED TO THE PROPOSED MAST ARMS.

- 2 EACH LIGHT DETECTOR
- 2 EACH CONFIRMATION BEACON
- 1 EACH PTZ CAMERA

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**PATRICK ENGINEERING INC.**  
 4970 VARSITY DRIVE  
 LISLE, IL 60532  
 patrickengineering.com

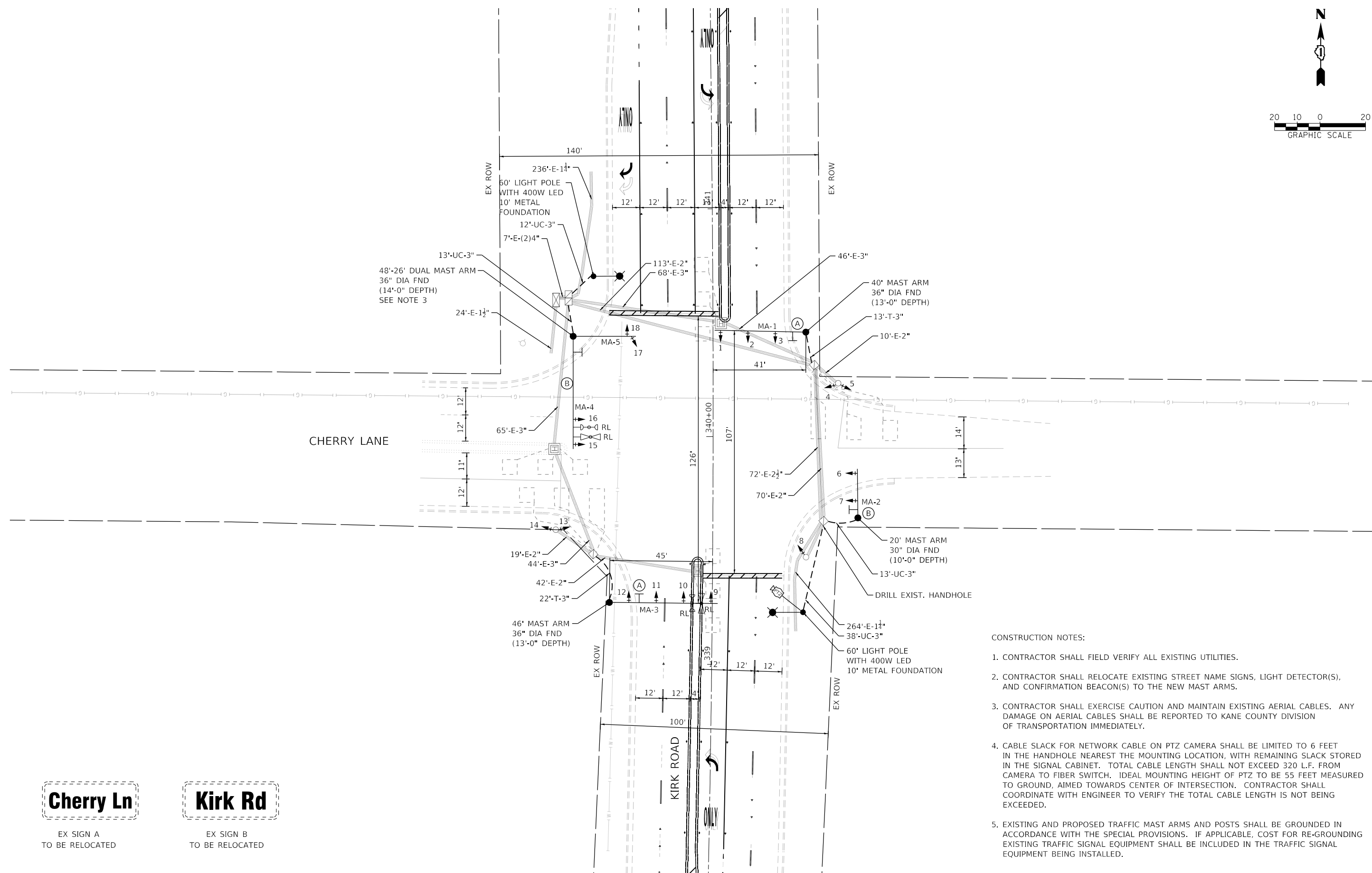
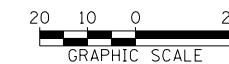
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PLOT SCALE = 40.0000 ' / in.	DRAWN - AYJ	REVISED -
PLOT DATE = 11/14/2018	CHECKED - JJC	REVISED -
	DATE - \$DATE	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL REMOVAL PLAN**  
**KIRK ROAD AND CHERRY LANE INTERSECTION**

SCALE: 1" = 20'    SHEET TS-09 OF 13 SHEETS    STA.    TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
360	16-00477-00-5P	KANE	80	55
CONTRACT NO. 61F13				
ILLINOIS FED. AID PROJECT				



CHERRY LANE

KIRK ROAD

**Cherry Ln**

**Kirk Rd**

EX SIGN A  
TO BE RELOCATED

EX SIGN B  
TO BE RELOCATED

CONSTRUCTION NOTES:

1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES.
2. CONTRACTOR SHALL RELOCATE EXISTING STREET NAME SIGNS, LIGHT DETECTOR(S), AND CONFIRMATION BEACON(S) TO THE NEW MAST ARMS.
3. CONTRACTOR SHALL EXERCISE CAUTION AND MAINTAIN EXISTING AERIAL CABLES. ANY DAMAGE ON AERIAL CABLES SHALL BE REPORTED TO KANE COUNTY DIVISION OF TRANSPORTATION IMMEDIATELY.
4. CABLE SLACK FOR NETWORK CABLE ON PTZ CAMERA SHALL BE LIMITED TO 6 FEET IN THE HANDHOLE NEAREST THE MOUNTING LOCATION, WITH REMAINING SLACK STORED IN THE SIGNAL CABINET. TOTAL CABLE LENGTH SHALL NOT EXCEED 320 L.F. FROM CAMERA TO FIBER SWITCH. IDEAL MOUNTING HEIGHT OF PTZ TO BE 55 FEET MEASURED TO GROUND, AIMED TOWARDS CENTER OF INTERSECTION. CONTRACTOR SHALL COORDINATE WITH ENGINEER TO VERIFY THE TOTAL CABLE LENGTH IS NOT BEING EXCEEDED.
5. EXISTING AND PROPOSED TRAFFIC MAST ARMS AND POSTS SHALL BE GROUNDED IN ACCORDANCE WITH THE SPECIAL PROVISIONS. IF APPLICABLE, COST FOR RE-GROUNDED EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE INCLUDED IN THE TRAFFIC SIGNAL EQUIPMENT BEING INSTALLED.

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**PATRICK ENGINEERING INC.**  
4970 VARSITY DRIVE  
LISLE, IL 60532  
patrickengineering.com

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DESIGNED	- AYJ
DRAWN	- AYJ
CHECKED	- JJC
DATE	- \$DATE
PLOT SCALE	= 40.0000 ' / in.
PLOT DATE	= 11/14/2018

DESIGNED	- AYJ
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

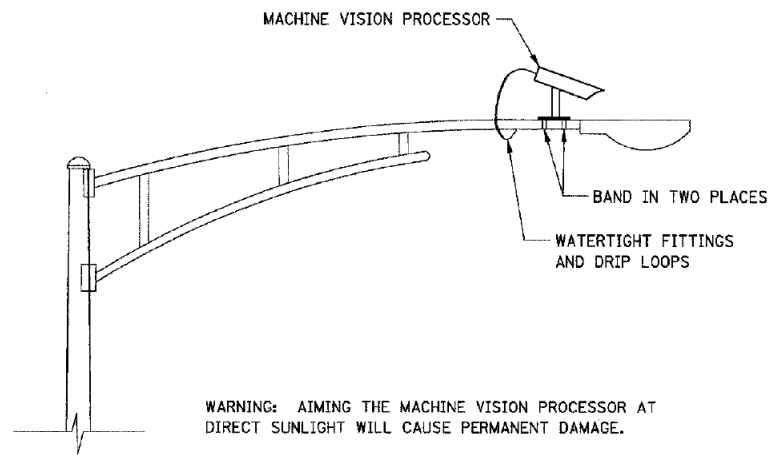
**PROPOSED TRAFFIC SIGNAL PLAN  
KIRK ROAD AND CHERRY LANE INTERSECTION**

SCALE: 1" = 20' SHEET TS-10 OF 13 SHEETS STA. TO STA.

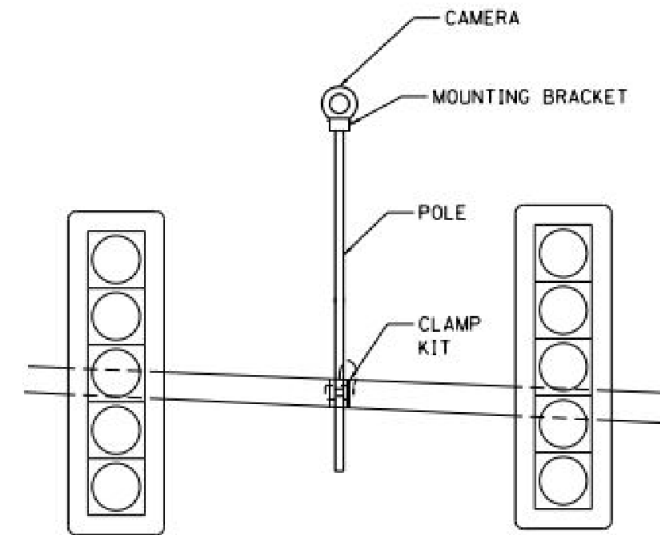
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360	16-00477-00-5P	KANE	80	56
CONTRACT NO. 61F13				
ILLINOIS FED. AID PROJECT				



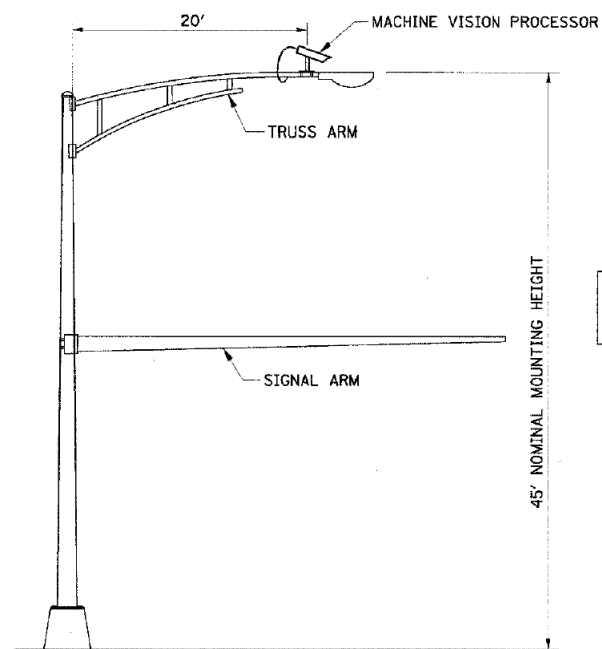




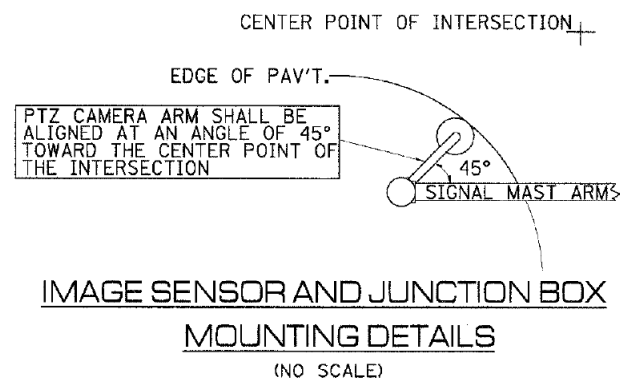
**MACHINE VISION PROCESSOR  
MOUNTING DETAIL**  
(NOT TO SCALE)



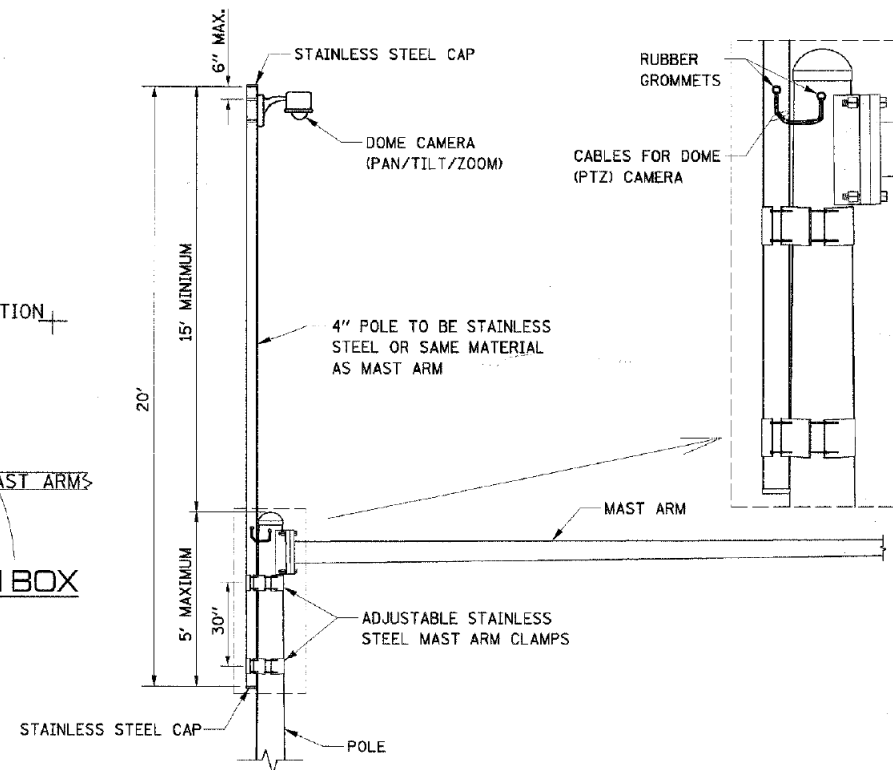
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BRACKET MOUNTING DETAIL**  
NOT TO SCALE



**COMBINATION MAST ARM ASSEMBLY  
AND POLE DIMENSIONS**  
(NOT TO SCALE)



**IMAGE SENSOR AND JUNCTION BOX  
MOUNTING DETAILS**  
(NO SCALE)



**CAMERA MOUNTING ASSEMBLY DETAIL**  
(NOT TO SCALE)

MODEL: Default  
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**PATRICK ENGINEERING INC.**  
 4970 VARSITY DRIVE  
 LISLE, IL 60532  
 patrickengineering.com

USER NAME = yrodriguez  
 PLOT SCALE = 40.0000 ' / in.  
 PLOT DATE = 11/14/2018

DESIGNED - AYJ  
 DRAWN - AYJ  
 CHECKED - JJC  
 DATE - \$DATE

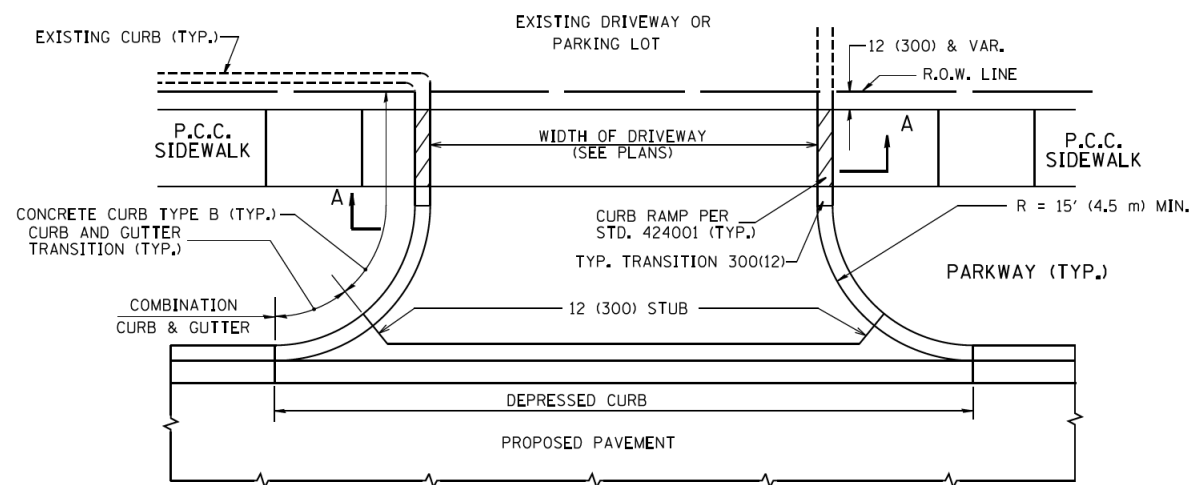
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

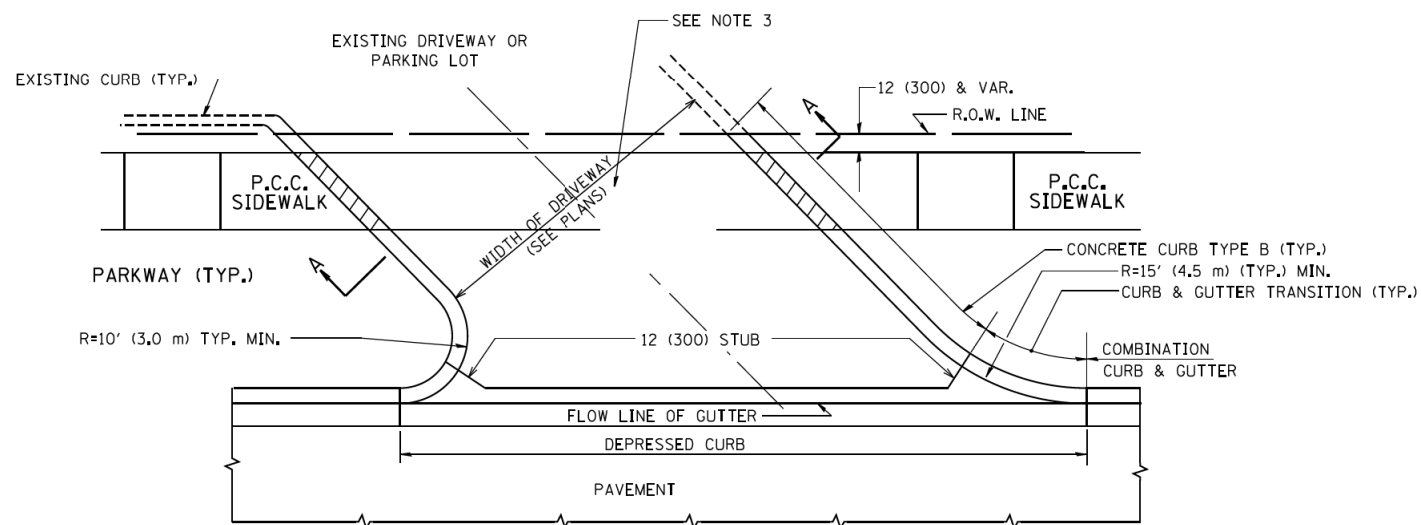
**VIDEO DETECTION SYSTEM/CAMERA MOUNTING DETAILS**

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

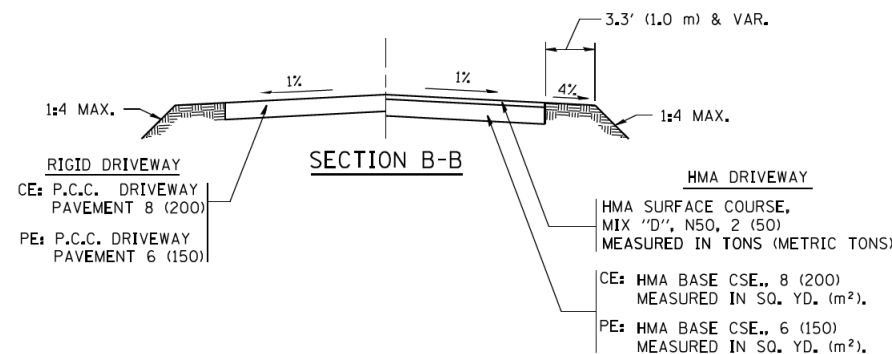
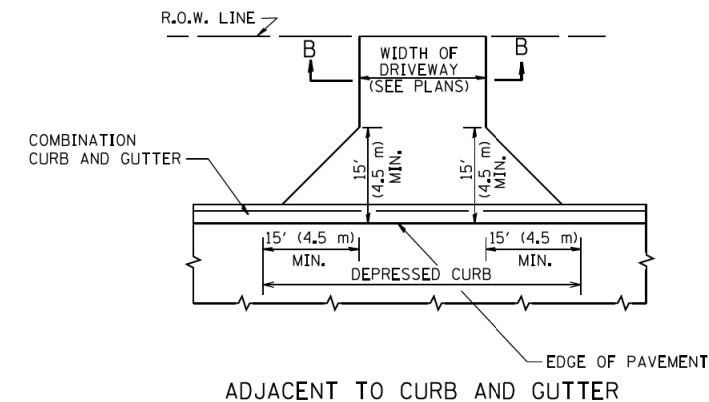
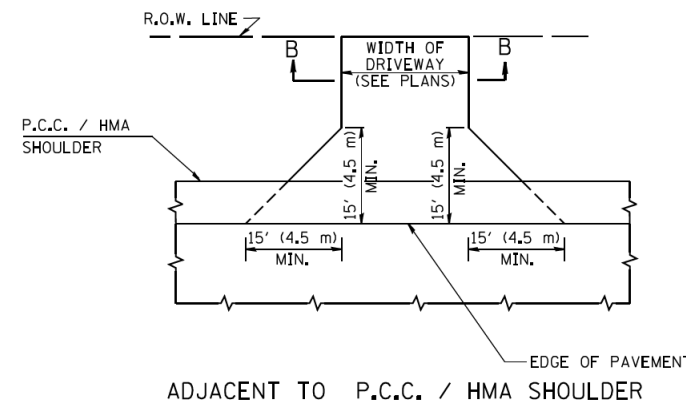
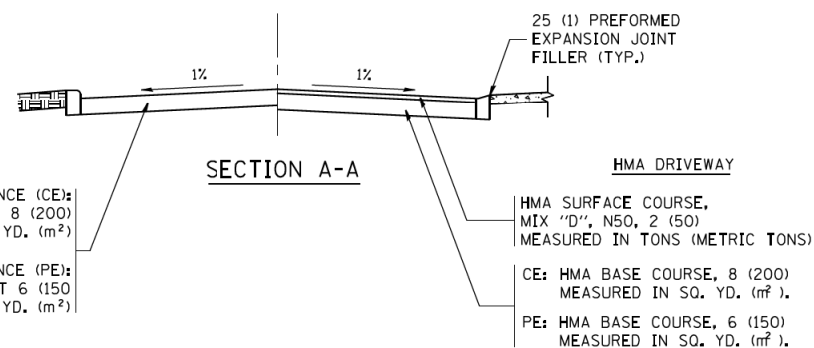
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
360	16-00477-00-5P	KANE	80	59
CONTRACT NO. 61F13				
ILLINOIS FED. AID PROJECT				



WITH CONCRETE CURB, TYPE B



WITH CONCRETE CURB, TYPE B



RURAL FIELD ENTRANCE (FE)  
HMA SURFACE COURSE,  
MIX "D", N50, 2 (50)  
MEASURED IN TONS (METRIC TONS)  
AGGREGATE BASE CSE., TYPE B, 8 (200)  
MEASURED IN SQ. YD. (m²).

**GENERAL NOTES:**

DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATIONS IN THE PERMIT HANDBOOK. DRIVEWAYS SHALL BE REPLACED IN KIND, UNLESS OTHERWISE NOTED ON THE PLANS.

COMMERCIAL DRIVEWAYS SHALL BE CONSTRUCTED WITH CONCRETE CURB, TYPE B RETURNS EXCEPT WHEN THE SIDEWALK EDGE IS 4 FEET (1.2 METERS) OR LESS FROM THE BACK OF CURB, CONSTRUCT A FLARE DRIVEWAY WITHOUT CURB.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC PERMIT OFFICE AT 847/ 705-4131 FOR ANY QUESTIONS ON DRIVEWAYS SHOWN IN THE PLANS; SPECIFICALLY IN REFERENCE TO ADDITIONAL AND/OR RELOCATION/REMOVAL OF A DRIVEWAY.

COMBINATION CONCRETE CURB & GUTTER SHALL BE MEASURED STRAIGHT ACROSS THE DRIVEWAY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE CURB & GUTTER TRANSITION.

1 (25) PREFORMED EXPANSION JOINT FILLER WILL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE P.C.C. DRIVEWAY PAVEMENT OR P.C.C. SIDEWALK.

WHEN THE P.C.C. SIDEWALK EXTENDS THROUGH THE DRIVEWAY, THE THICKNESS OF THE SIDEWALK IN THE DRIVEWAY AREA SHALL BE THE SAME AS THE DRIVEWAY THICKNESS. SIDEWALK WILL BE PAID FOR AS P.C.C. SIDEWALK OF THE THICKNESS SPECIFIED. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.

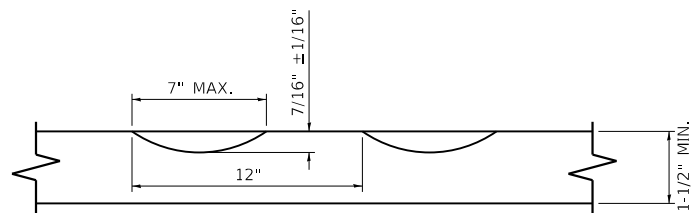
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	PLOT SCALE = 50.0000' / 1in.	CHECKED -	REVISED - R. BORO 06-11-08
	PLOT DATE = 9/6/2011	DATE - 11-04-95	REVISED - R. BORO 09-06-11

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

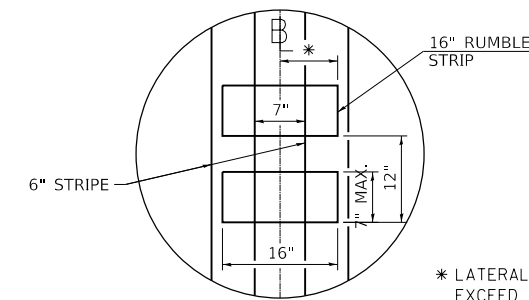
DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W. AND FACE OF CURB & EDGE OF SHOULDER >= 15' (4.5 m)	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS
STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
360	16-00477-00-5P	KANE	80	60
BD0156-07 (BD-01)		CONTRACT NO. 61F13		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				





**SECTION A-A**



**DETAIL B**

**GENERAL NOTES**

CENTERLINE RUMBLE STRIPS SHALL BE CONSTRUCTED ACCORDING TO SECTION 642 ALONG THE CENTERLINE OF PAVEMENT.

SEE STANDARD 780001 FOR OTHER STRIPING LAYOUTS.

RUMBLE STRIPS SHALL NOT BE PLACED ON BRIDGES.

ALL RUMBLE STRIPS SHALL BE MILLED.

CENTERLINE RUMBLE STRIPS SHALL BE CONTINUOUS THROUGH CONNECTIONS OF SIDEROADS WITH NO LEFT TURN LANES.

DISCONTINUE CENTERLINE RUMBLE STRIPS THROUGH THE LIMITS OF ALL LEFT TURN LANES, INCLUDING ANY LANE TAPER SECTIONS.

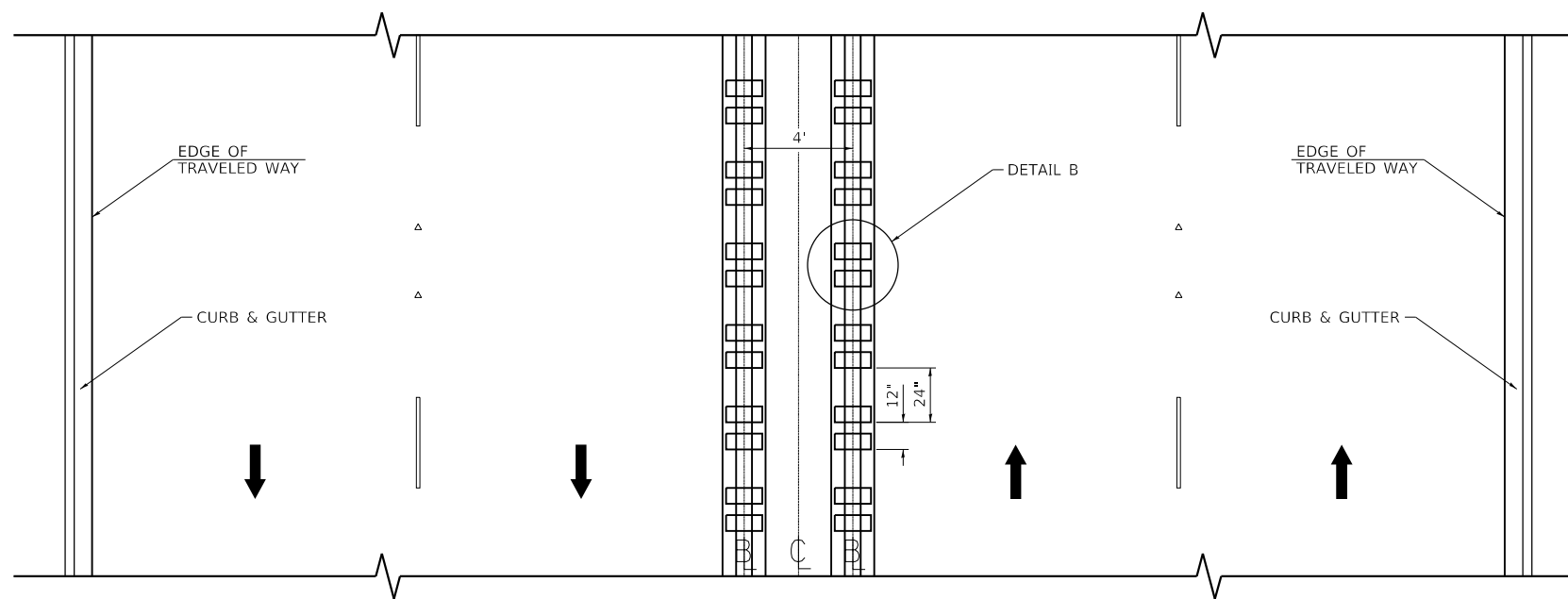
AFTER RUMBLE STRIPS ARE INSTALLED, THE PAVEMENT SURFACE SHALL BE SWEEPED CLEAN PRIOR TO THE PLACEMENT OF THE NEW PAVEMENT MARKINGS.

WHERE USED, ADJUST SPACING OF RECESSED REFLECTIVE PAVEMENT MARKERS TO FALL IN WIDER GAP BETWEEN RUMBLE STRIPS.

**BASIS OF PAYMENT**

THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR CENTERLINE-RUMBLE STRIP OF THE WIDTH SPECIFIED.

MODIFIED URETHANE PAVEMENT MARKING WILL BE USED OVER THE RUMBLE STRIPS, AND WILL BE PAID FOR SEPARATELY.



**TWO-WAY ROAD**

MODEL: Default  
FILE: M:\GIS\Projects\GIS\Projects\SSA1\Documents\K00171777\041\_KR14SR12\_CADD\SHSHEETS\Phase 1\041-SHEETS\DETAILS-002.dwg

**PATRICK ENGINEERING INC.**  
4970 VARSITY DRIVE  
LISLE, IL 60532  
patrickengineering.com

USER NAME = yrodiguez  
PLOT SCALE = 100.0000' / in.  
PLOT DATE = 11/14/2018

DESIGNED - YMR  
DRAWN - YMR  
CHECKED - JJC  
DATE - \$DATE

REVISED -  
REVISED -  
REVISED -  
REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

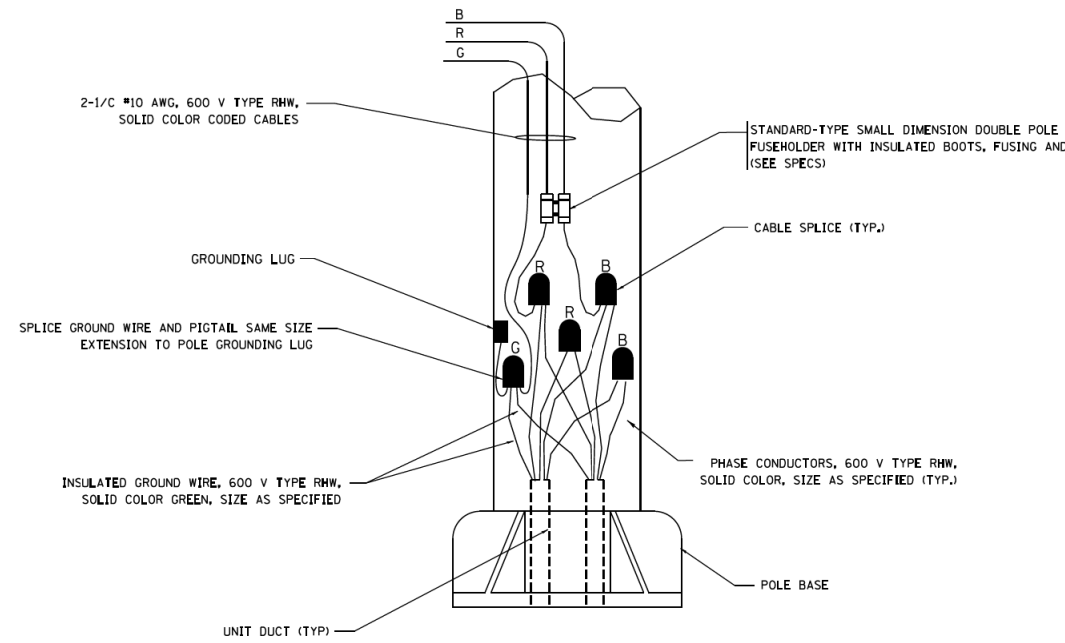
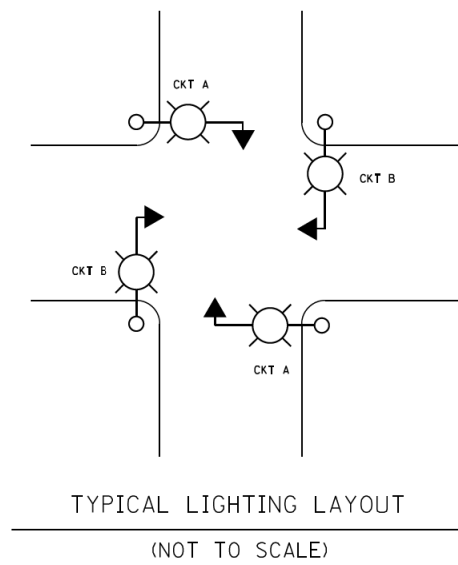
**RUMBLE STRIPES FOR CENTERLINE, NON-FREEWAY (MODIFIED)  
KIRK ROAD**

SCALE: NTS SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
360	16-00477-00-5P	KANE	80	61
BD-55 (MODIFIED)			CONTRACT NO. 61F13	
ILLINOIS FED. AID PROJECT				

PANEL EQUIPMENT

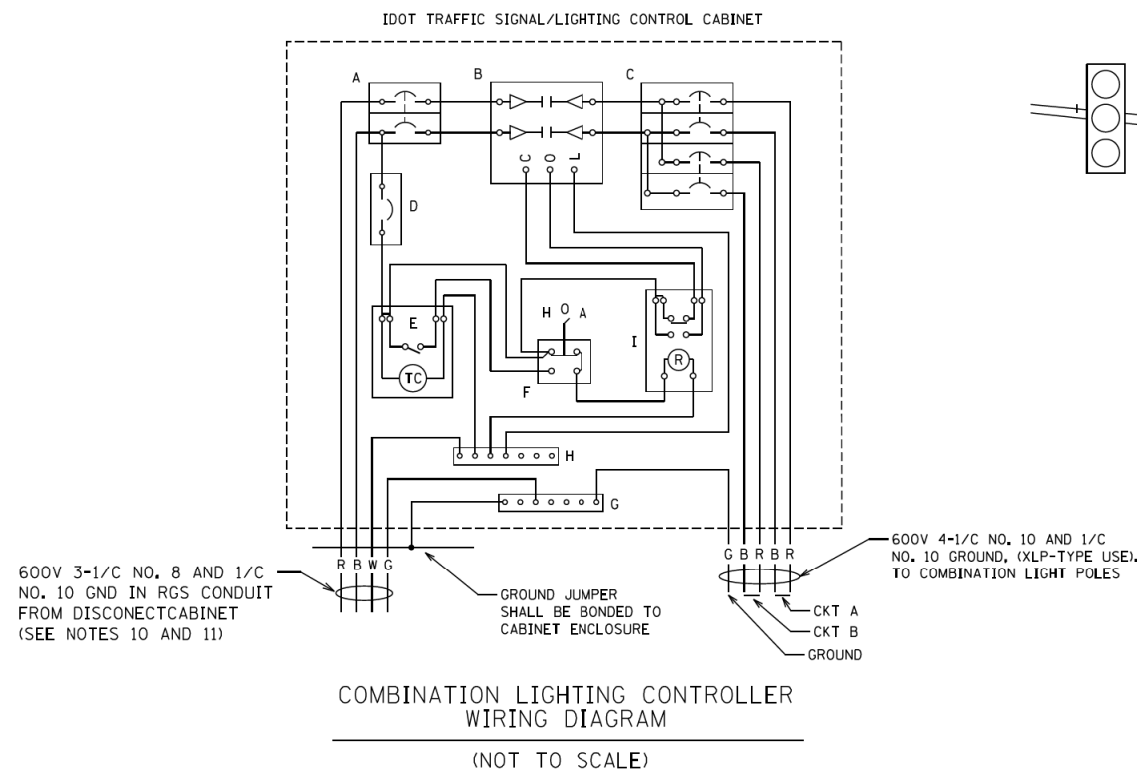
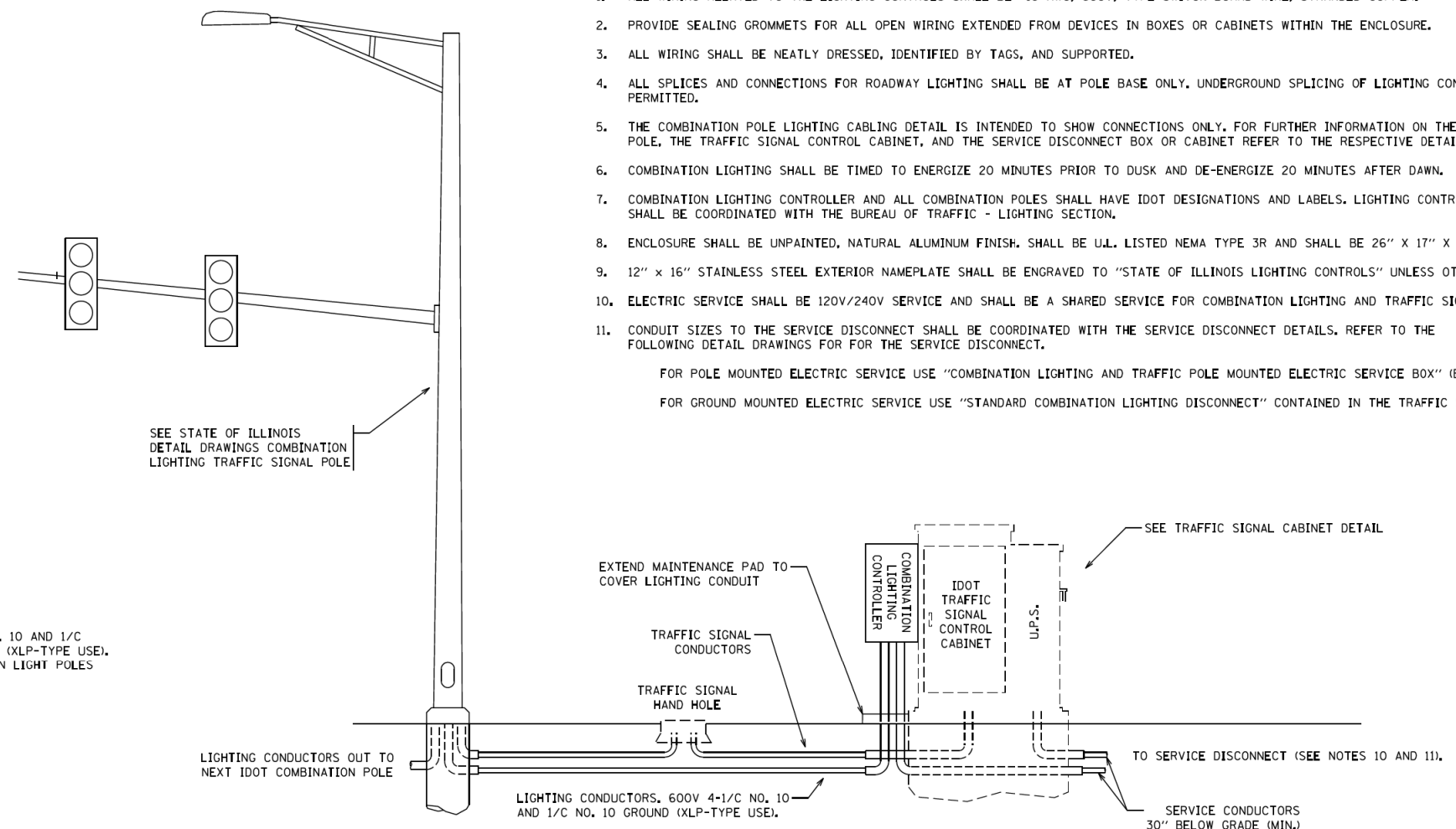
BILL OF MATERIALS		
ITEM	QUANTITY	DESCRIPTION
A	1	CIRCUIT BREAKER, THERMAL MAGNETIC MOLDED CASE, 2 POLE, 240 VOLT 100 AMP FRAME, 30 AMP TRIP, INTERRUPTING RATING 22K RMS SYMETRICALL AMP
B	1	REMOTE CONTROL SWITCH, ELECTRICALLY OPERATED, MECHANICALLY HELD, 2 POLE, SINGLE THROW, 30 AMP., 600 VOLTS CONTROL CIRCUIT 120 VOLT.
C	2	CIRCUIT BREAKERS, 2 POLE, 100 AMP, FRAME 20 AMP, NON-INTERCHANGABLE TRIP INTERRUPTING RATING 10,000 AMP AT 240 V.
D	1	CONTROL CIRCUIT-CIRCUIT BREAKER, 1 POLE, 100 AMP FRAME, 15 AMP NON-INTERCHANGABLE TRIP, INTERRUPTING RATING 22K RMS SYMETRICAL AMP AT 240V.
E	1	ASTRONOMIC MICROPROCESSOR-BASED 2-CHANNEL CONTROLLER (TIME SWITCH)
F	1	H-O-A SWITCH
G	1	COPPER GROUND BUS 1/4" (6,35) X 1" (25,4) X 12" (304,8 mm) LONG MOUNTED ON PANEL WITH LUGS AND 4 SPARE LUGS
H	1	COPPER NEUTRAL BUS 1/4" (6,35) X 1" (25,4) X 12" (304,8 mm) LONG MOUNTED ON PANEL WITH LUGS AND 4 SPARE LUGS
I	1	RELAY, 2 POLE, SINGLE THROW, 120 VOLT COIL, CURRENT RATING TO BE COORDINATED WITH CONTACTOR



NOTES:

- ALL WIRING RELATED TO THE LIGHTING CONTROLS SHALL BE #10 AWG, 600V, TYPE SWITCH BOARD WIRE, STRANDED COPPER.
- PROVIDE SEALING GROMMETS FOR ALL OPEN WIRING EXTENDED FROM DEVICES IN BOXES OR CABINETS WITHIN THE ENCLOSURE.
- ALL WIRING SHALL BE NEATLY DRESSED, IDENTIFIED BY TAGS, AND SUPPORTED.
- ALL SPLICES AND CONNECTIONS FOR ROADWAY LIGHTING SHALL BE AT POLE BASE ONLY. UNDERGROUND SPLICING OF LIGHTING CONDUCTORS IS NOT PERMITTED.
- THE COMBINATION POLE LIGHTING CABLING DETAIL IS INTENDED TO SHOW CONNECTIONS ONLY, FOR FURTHER INFORMATION ON THE COMBINATION LIGHT POLE, THE TRAFFIC SIGNAL CONTROL CABINET, AND THE SERVICE DISCONNECT BOX OR CABINET REFER TO THE RESPECTIVE DETAIL DRAWINGS.
- COMBINATION LIGHTING SHALL BE TIMED TO ENERGIZE 20 MINUTES PRIOR TO DUSK AND DE-ENERGIZE 20 MINUTES AFTER DAWN.
- COMBINATION LIGHTING CONTROLLER AND ALL COMBINATION POLES SHALL HAVE IDOT DESIGNATIONS AND LABELS. LIGHTING CONTROLLER DESIGNATIONS SHALL BE COORDINATED WITH THE BUREAU OF TRAFFIC - LIGHTING SECTION.
- ENCLOSURE SHALL BE UNPAINTED, NATURAL ALUMINUM FINISH. SHALL BE U.L. LISTED NEMA TYPE 3R AND SHALL BE 26" X 17" X 15"
- 12" x 16" STAINLESS STEEL EXTERIOR NAMEPLATE SHALL BE ENGRAVED TO "STATE OF ILLINOIS LIGHTING CONTROLS" UNLESS OTHERWISE SPECIFIED.
- ELECTRIC SERVICE SHALL BE 120V/240V SERVICE AND SHALL BE A SHARED SERVICE FOR COMBINATION LIGHTING AND TRAFFIC SIGNALS.
- CONDUIT SIZES TO THE SERVICE DISCONNECT SHALL BE COORDINATED WITH THE SERVICE DISCONNECT DETAILS, REFER TO THE FOLLOWING DETAIL DRAWINGS FOR THE SERVICE DISCONNECT.

FOR POLE MOUNTED ELECTRIC SERVICE USE "COMBINATION LIGHTING AND TRAFFIC POLE MOUNTED ELECTRIC SERVICE BOX" (BE-230),  
FOR GROUND MOUNTED ELECTRIC SERVICE USE "STANDARD COMBINATION LIGHTING DISCONNECT" CONTAINED IN THE TRAFFIC SIGNAL DETAILS.



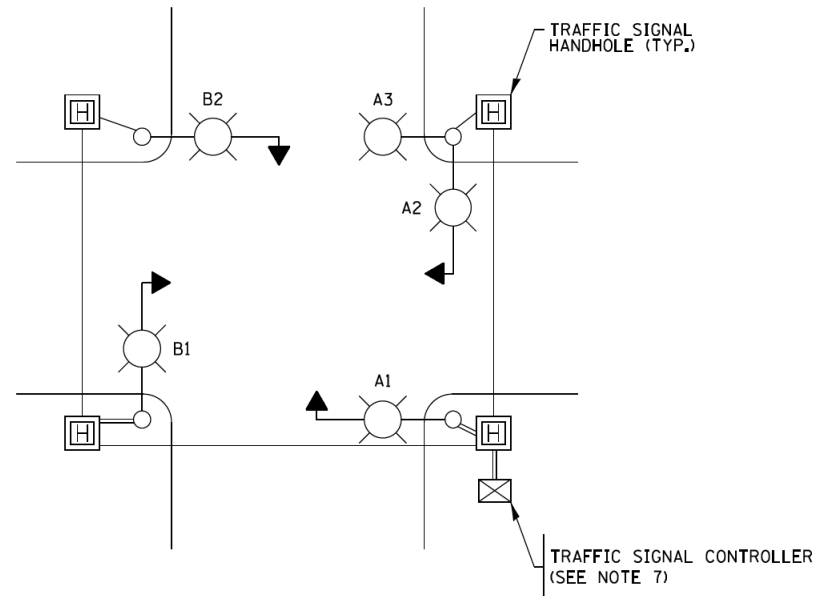
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		DATE - 8/24/11	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

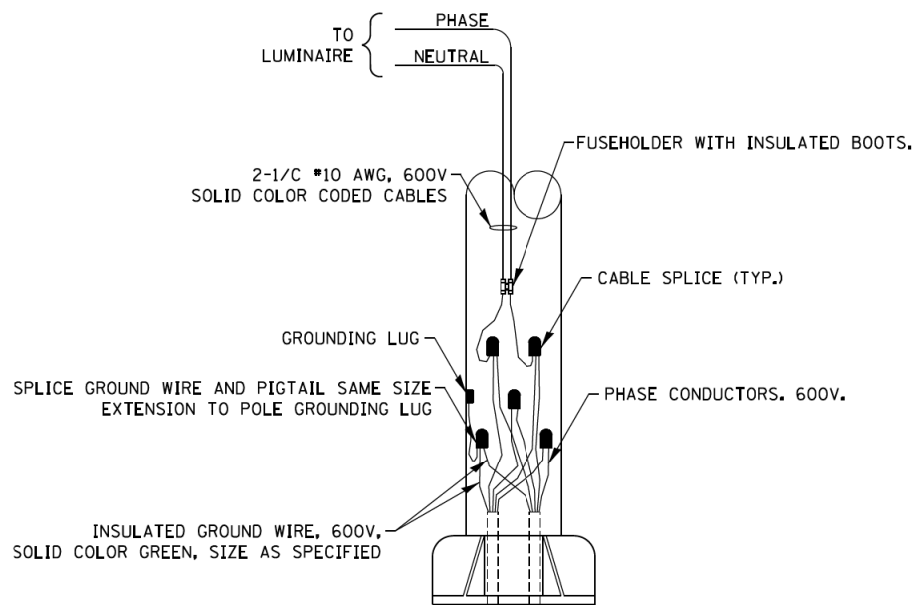
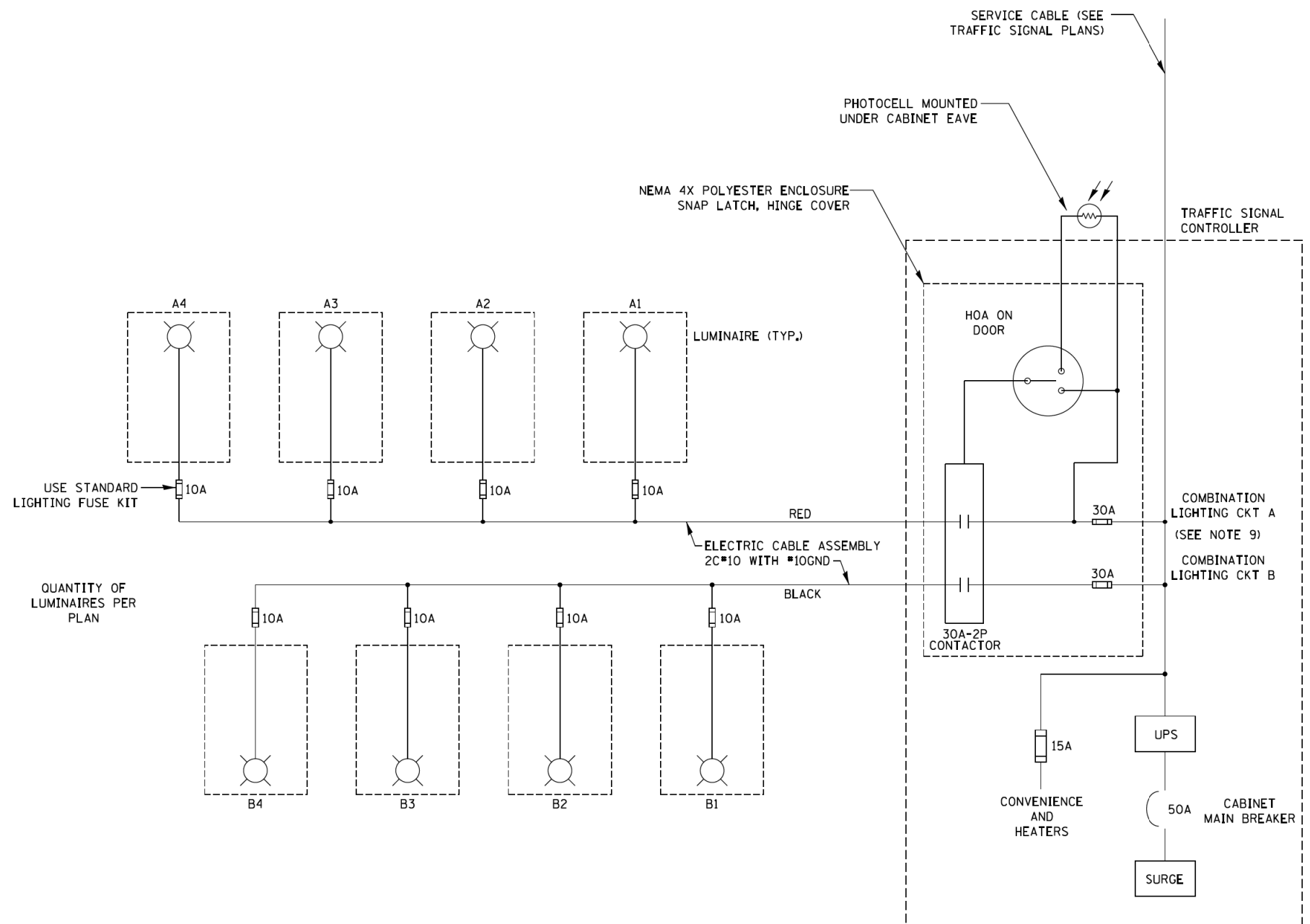
COMBINATION LIGHTING CONTROLLER

SCALE: NTS SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
360	16-00477-00-5P	KANE	80	62
BE-235		CONTRACT NO. 61F13		
ILLINOIS FED. AID PROJECT				



**TYPICAL LIGHTING CIRCUIT**  
(NOT TO SCALE)



**COMBINATION POLE WIRING DETAIL**  
(NOT TO SCALE)

**NOTES:**

- 4 LUMINAIRES PER CIRCUIT, MAXIMUM.
- MULTI-CONDUCTOR CABLE ASSEMBLY FOR LIGHTING CIRCUITS.
- ROUTE LIGHTING CIRCUITS IN TRAFFIC SIGNAL CONDUIT SYSTEM.
- ALL SPLICES AND CONNECTIONS FOR ROADWAY LIGHTING SHALL BE AT POLE BASE ONLY.
- ALL CONTROLLERS TO HAVE TWO FUSED LIGHTING BRANCH CIRCUITS.
- ALL WIRING SHALL BE NEATLY DRESSED, IDENTIFIED BY TAGS, AND SUPPORTED. (UNDERGROUND SPLICING OF LIGHTING CONDUCTORS IS NOT PERMITTED).
- RECORD DRAWING SHALL INCLUDE:
  - TRAFFIC SIGNAL PLAN SHEET(S)
  - TRAFFIC SIGNAL CABLE PLAN SHEET(S)
  - LIGHTING PLANS
  - THIS DETAIL
- THE H.O.A. SWITCH SHALL BE LABELED AS "LIGHTING CONTROL" WITH THE POSITIONS "AUTO", "OFF" AND "TEST" WITH ENGRAVED NAME PLATES.
- LIGHTING CONNECTED TO UPS BYPASS CIRCUIT

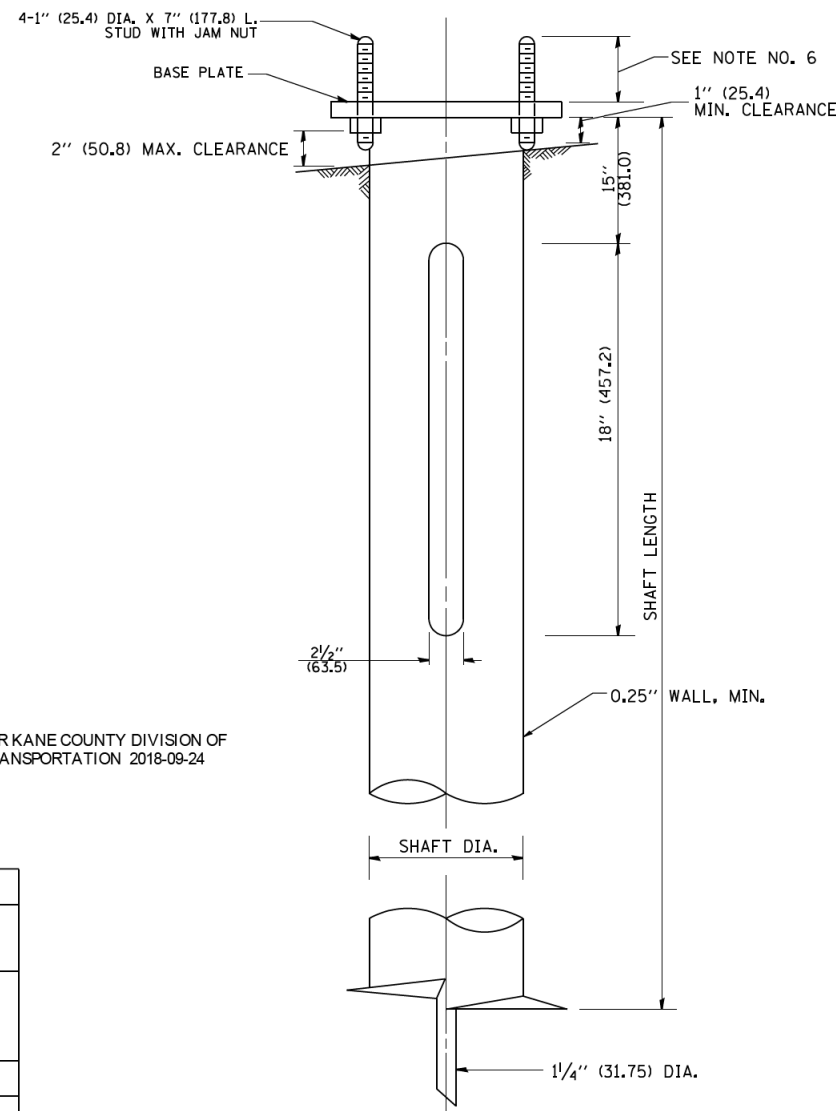
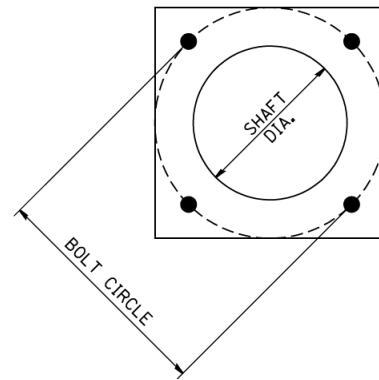
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		CHECKED - RT	REVISED - T.G. 4/12/2017
		DATE - 08/18/2014	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

COMBINATION LIGHTING, TRAFFIC SIGNAL SCHEMATIC

SCALE: NTS SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
360	16-00477-00-5P	KANE	80	63
BE-240		CONTRACT NO. 61F13		
ILLINOIS FED. AID PROJECT				



**HELIX FOUNDATION SIZE**

POLE MOUNTING HEIGHT	BOLT CIRCLE	SHAFT DIAMETER	SHAFT LENGTH	BASEPLATE
30 FT.	11 1/2"	8 5/8"	6 FT.	12"x12"x1"
31 FT.-35 FT.	11 1/2"	8 5/8"	6 FT.	12"x12"x1"
36 FT.-40 FT.	15"	8 5/8"	6 FT.	15"x15"x1 1/4"
41 FT.-45 FT.	15"	8 5/8"	6 FT.	15"x15"x1 1/4"
46 FT.-50 FT.	15"	10"	8 FT.	15"x15"x1 1/4"
60 FT	15"	10"	10 FT	15"x15"x1 1/4"

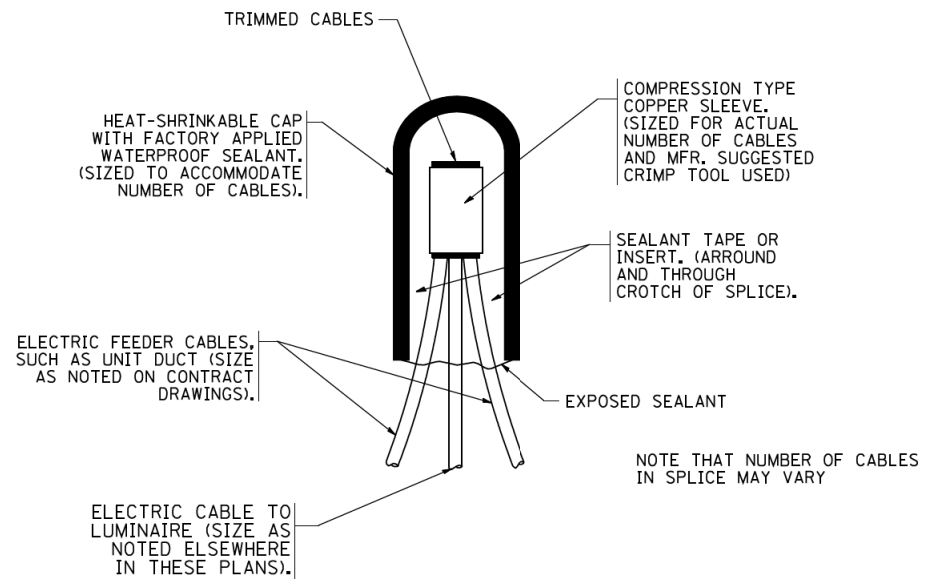
PER KANE COUNTY DIVISION OF TRANSPORTATION 2018-09-24

**METAL HELIX FOUNDATION MATERIALS**

ITEM	MATERIAL REQUIREMENT
BASEPLATE	AASHTO M 270M, GRADE 36 (M270M, GRADE 250)
SHAFT	ASTM A 252, GRADE 2 (PHOSPHOROUS 0.04% MAXIMUM, SULFUR 0.05% MAXIMUM)
HELIX SCREW	AASHTO M 183 (ASTM A 635)
PILOT POINT	AASHTO M 270 (ASTM A 575)
ANCHOR RODS/STUDS	AASHTO M 314 (ASTM F 1554)
HEXAGON NUTS	AASHTO M 291M (ASTM A 563) GRADE DH, OR AASHTO M 292 (ASTM A 194) GRADE 2H
WASHERS	AASHTO M 293 (ASTM F 436)

**NOTES:**

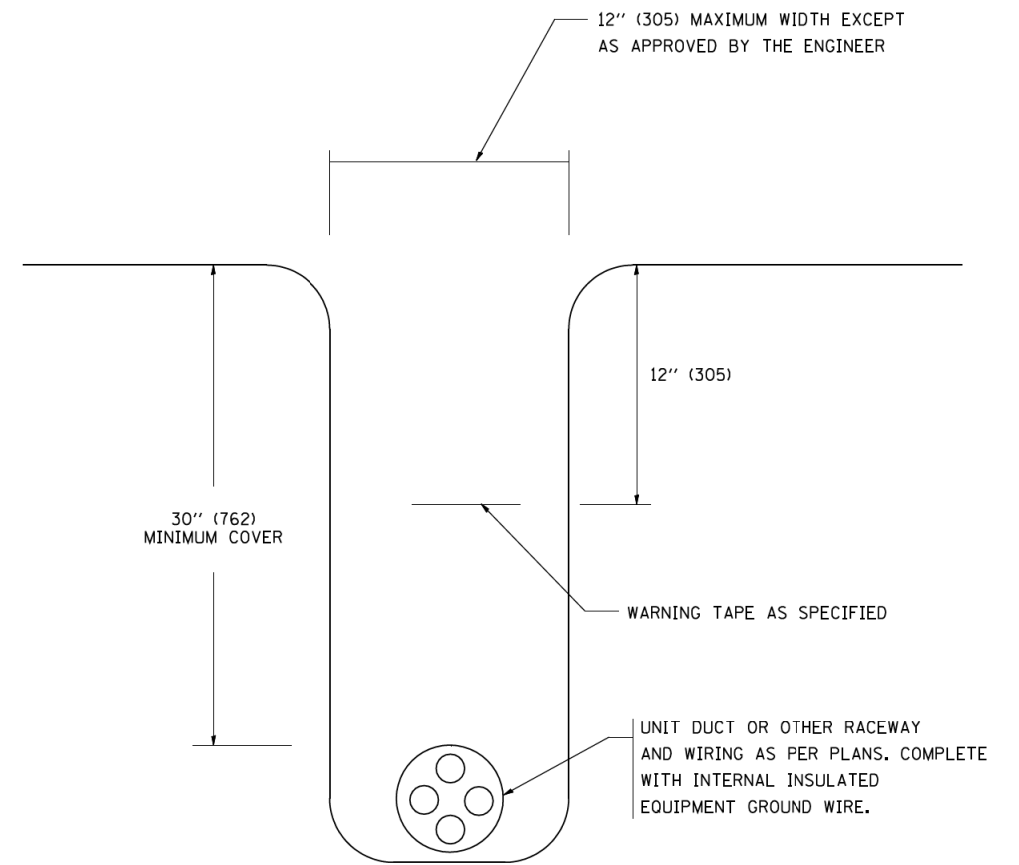
- ALL DIMENSION IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- ALL MATERIAL SHALL BE GALVINIZED ACCORDING TO AASHTO M111, UNLESS OTHERWISE SPECIFIED.
- ALL WELDS SHALL BE CONTINUOUS AND NOT LESS THAN 1/4" (6.35 mm) FILLET WELDS. THE WELDED FOUNDATION SHALL BE CAPABLE OF WITHSTANDING 10,000 FT/LBS (13558.18 n.m) OF INSTALLATION TORQUE APPLIED ABOUT THE AXIS OF THE FOUNDATION.
- THE HELIX FOUNDATION SHAFT SHALL BE INSTALLED VERTICAL AND THE BASE PLATE SHALL BE IN LEVEL. THE BREAKAWAY COUPLINGS AND HARDWARE SHALL NOT BE USED TO ALIGN THE POLE INSTALLATION.
- THE CABLE TRENCH SHALL BE BACKFILLED AND FIRMLY COMPACTED BEFORE THE INSTALLATION OF THE LIGHT POLE.
- THE CONTRACTOR SHALL COORDINATE EXTENSION OF ANCHOR BOLTS ABOVE TOP OF THE BASE PLATE WITH THE BREAKAWAY DEVICE MANUFACTURER'S REQUIREMENTS.
- ANY VOIDS WITHIN THE METAL FOUNDATION SHALL BE FILLED WITH FINE AGGREGATE.
- METAL FOUNDATIONS SHALL BE INSTALLED IN UNDISTURBED SOIL. PREDRILLING A PILOT HOLE AND/OR BACKFILLING AROUND THE FOUNDATION IS NOT ALLOWED.
- THE METAL FOUNDATION SHALL NOT BE INSTALLED TO A TORQUE WHICH EXCEEDS THE MANUFACTURER'S MAXIMUM TORQUE RATING NOR SHALL IT BE INSTALLED TO AN INSTALLATION TORQUE VALUE OF LESS THAN 3,500 FT LB (4,750 KNM). METAL FOUNDATIONS THAT ARE NOT INSTALLED TO FULL INSTALLATION DEPTH OR DO NOT ACHIEVE THE MINIMUM INSTALLATION TORQUE SHALL BE REMOVED AND REPLACED WITH A CONCRETE FOUNDATION AT NO ADDITIONAL COST.
- THE BASEPLATE SHALL BE PERPENDICULAR TO THE SHAFT AXIS (± 1°) AND THE HOLE CENTERLINE SHALL BE CONCENTRIC (± 0.188) TO THE SHAFT AXIS.
- THE PILOT POINT AND SHAFT AXIS SHALL BE CONCENTRIC (± 0.125) AND IN LINE (± 2°).
- THE BASEPLATE SHALL BE STAMPED WITH THE MANUFACTURERS NAME AND DATE OF MANUFACTURE.



**TYPICAL SPLICE DETAIL**

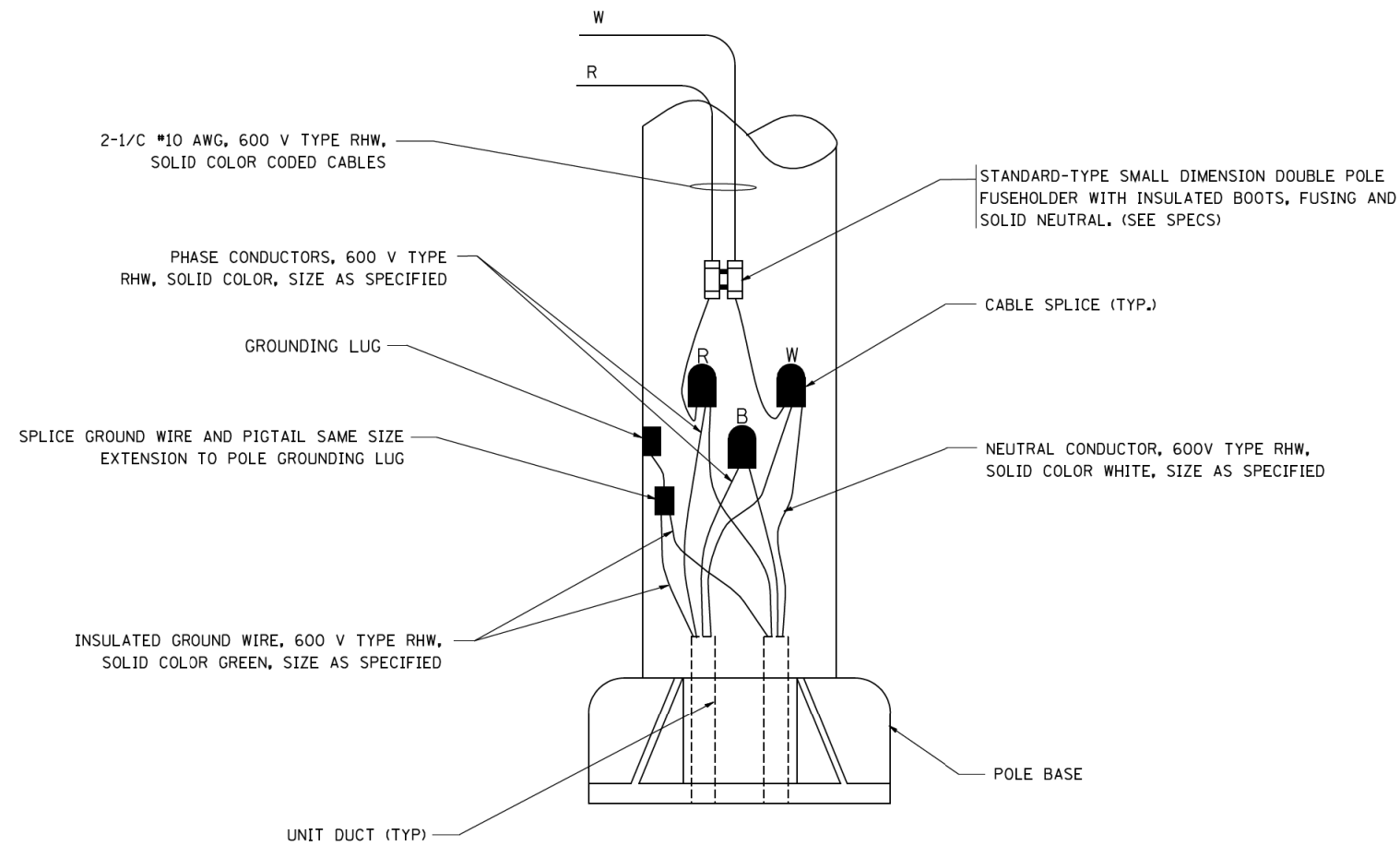
N.T.S.

NOTE THAT NUMBER OF CABLES IN SPLICE MAY VARY



**TYPICAL WIRING IN TRENCH DETAIL**

N.T.S.



**POLE WIRING DETAIL**

N.T.S.

FILE NAME =  
W:\diststd\22x34\be702.dgn

USER NAME = geglanobt  
PLOT SCALE = 50.000 ' / IN.  
PLOT DATE = 1/4/2008

DESIGNED -  
DRAWN -  
CHECKED -  
DATE -

REVISED - 08-08-03  
REVISED -  
REVISED -  
REVISED -

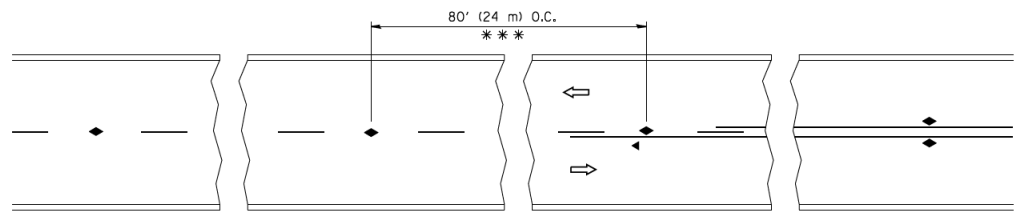
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**MISC. ELECTRICAL DETAILS  
SHEET A**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

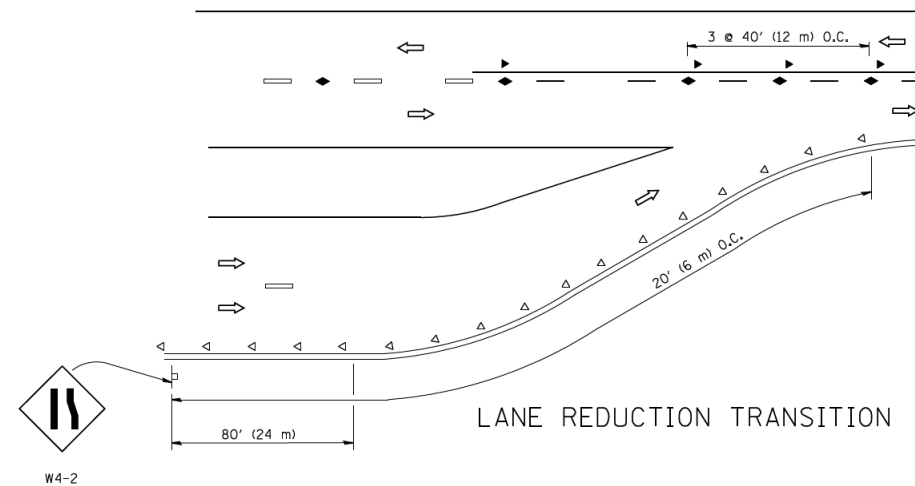
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
360	16-00477-00-5P	KANE	80	65
<b>BE-702</b>		<b>CONTRACT NO. 61F13</b>		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



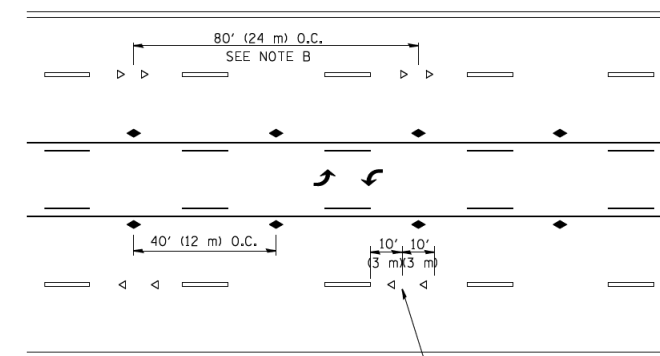


\*\*\* REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

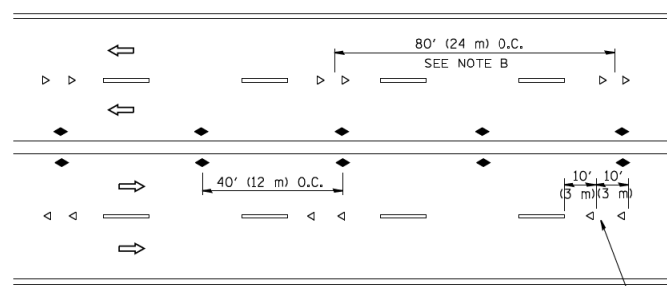
TWO-LANE/TWO-WAY



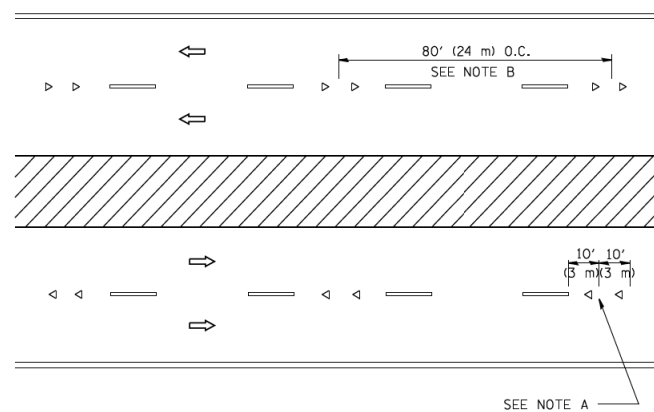
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

SYMBOLS

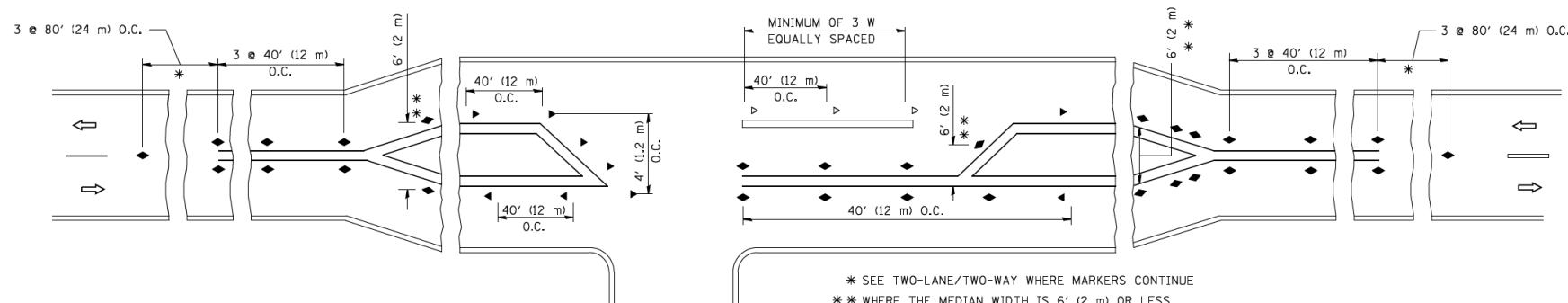
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H. (20 km/h) LOWER THAN POSTED SPEEDS.

DESIGN NOTES

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHALL BE INCLUDED IN THE PLANS WHEN STANDARD SPECIFICATIONS ARE NOT BEING USED.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.



\* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE  
 \*\* WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

LEFT TURN

All dimensions are in inches (millimeters) unless otherwise shown.

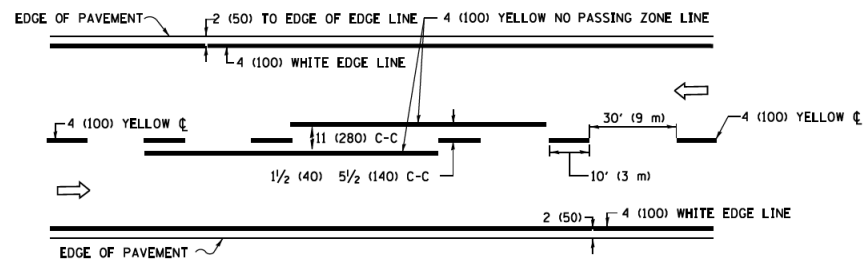
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	PLOT DATE = 3/2/2011	DATE -	REVISED - C. JUCIUS 09-09-09

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

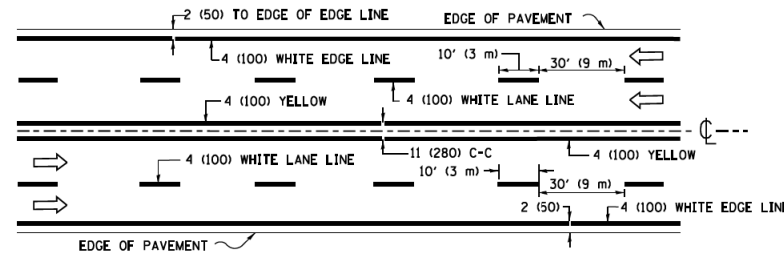
TYPICAL APPLICATIONS  
 RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

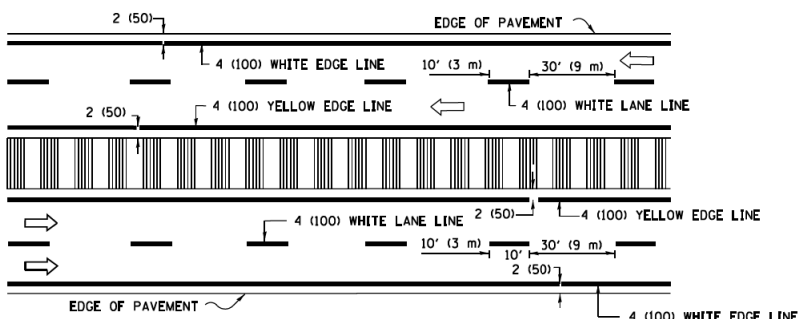
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
360	16-00477-00-5P	KANE	80	67
TC-11		CONTRACT NO. 61F13		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



**2-LANE ROADWAY**

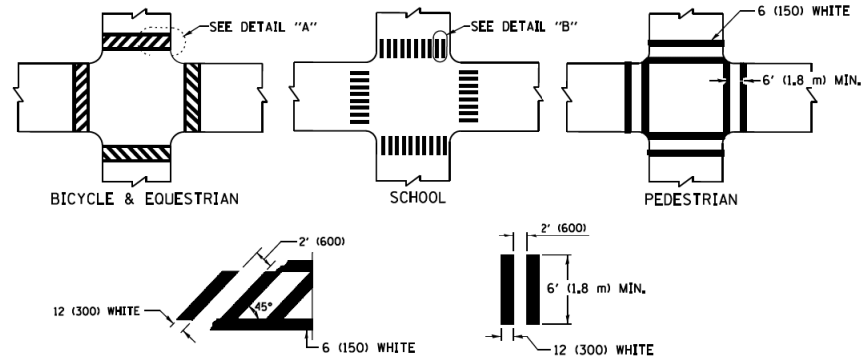


**MULTI-LANE UNDIVIDED**



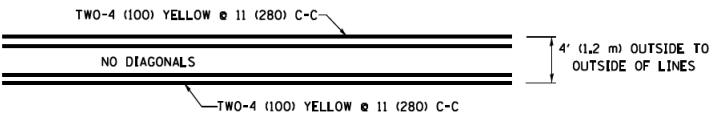
**MULTI-LANE DIVIDED WITH MEDIAN**

**TYPICAL LANE AND EDGE LINE MARKING**

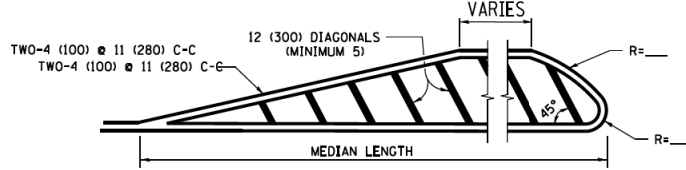


**TYPICAL CROSSWALK MARKING**

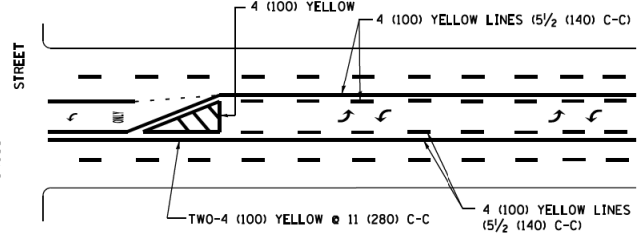
\* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



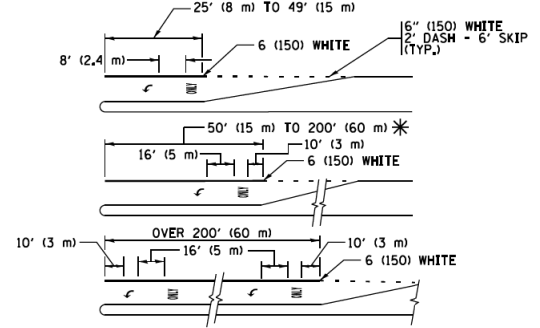
**4' (1.2 m) WIDE MEDIANS ONLY**



**MEDIANS OVER 4' (1.2 m) WIDE**



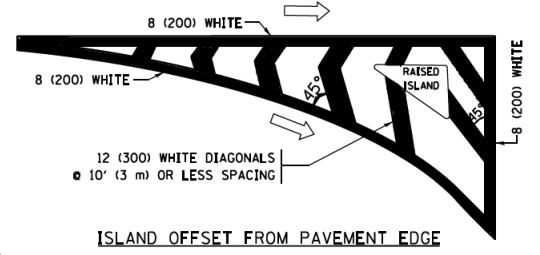
**MEDIAN WITH TWO-WAY LEFT TURN LANE TYPICAL PAINTED MEDIAN MARKING**



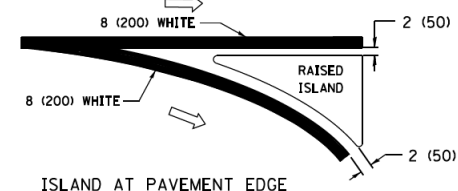
**TYPICAL LEFT (OR RIGHT) TURN LANE TYPICAL TURN LANE MARKING**

FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED. AREA = 15.6 SQ. FT. (1.5 m<sup>2</sup>) ONLY AREA = 20.8 SQ. FT. (1.9 m<sup>2</sup>)

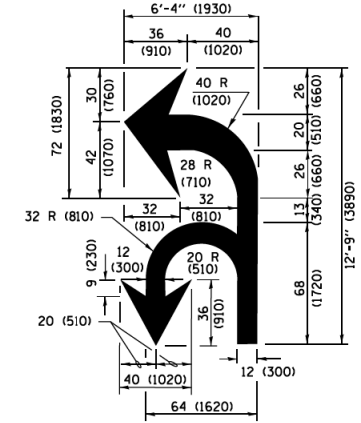
\* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".



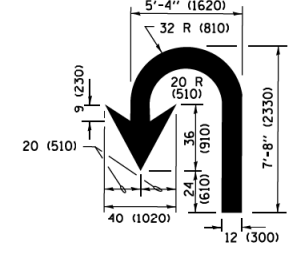
**ISLAND OFFSET FROM PAVEMENT EDGE**



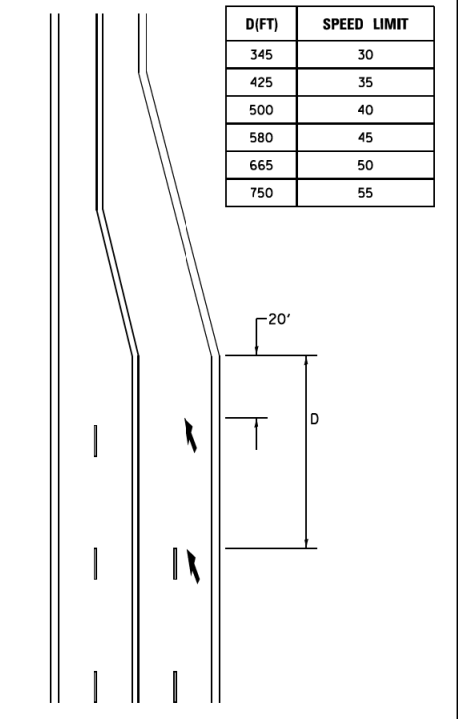
**ISLAND AT PAVEMENT EDGE TYPICAL ISLAND MARKING**



**COMBINATION LEFT AND U-TURN**



**U-TURN**



**LANE REDUCTION TRANSITION**  
\* LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

D(FT)	SPEED LIMIT
345	30
425	35
500	40
580	45
665	50
750	55

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING /REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH 5/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT, OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW WHITE WHITE	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
CORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m <sup>2</sup> ) EACH "X"=54.0 SQ. FT. (5.0 m <sup>2</sup> )
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (22.5 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME = W:\dststd\22x34\to13.dgn	USER NAME = luyee	DESIGNED - EVERS	REVISED - C. JUCIUS 09-09-09
Default	PLOT SCALE = 50,000 / 1" = 100'	DRAWN -	REVISED - C. JUCIUS 07-01-13
	PLOT DATE = 6/23/2017	CHECKED -	REVISED - C. JUCIUS 12-21-15
		DATE - 03-19-90	REVISED - C. JUCIUS 04-12-16

**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

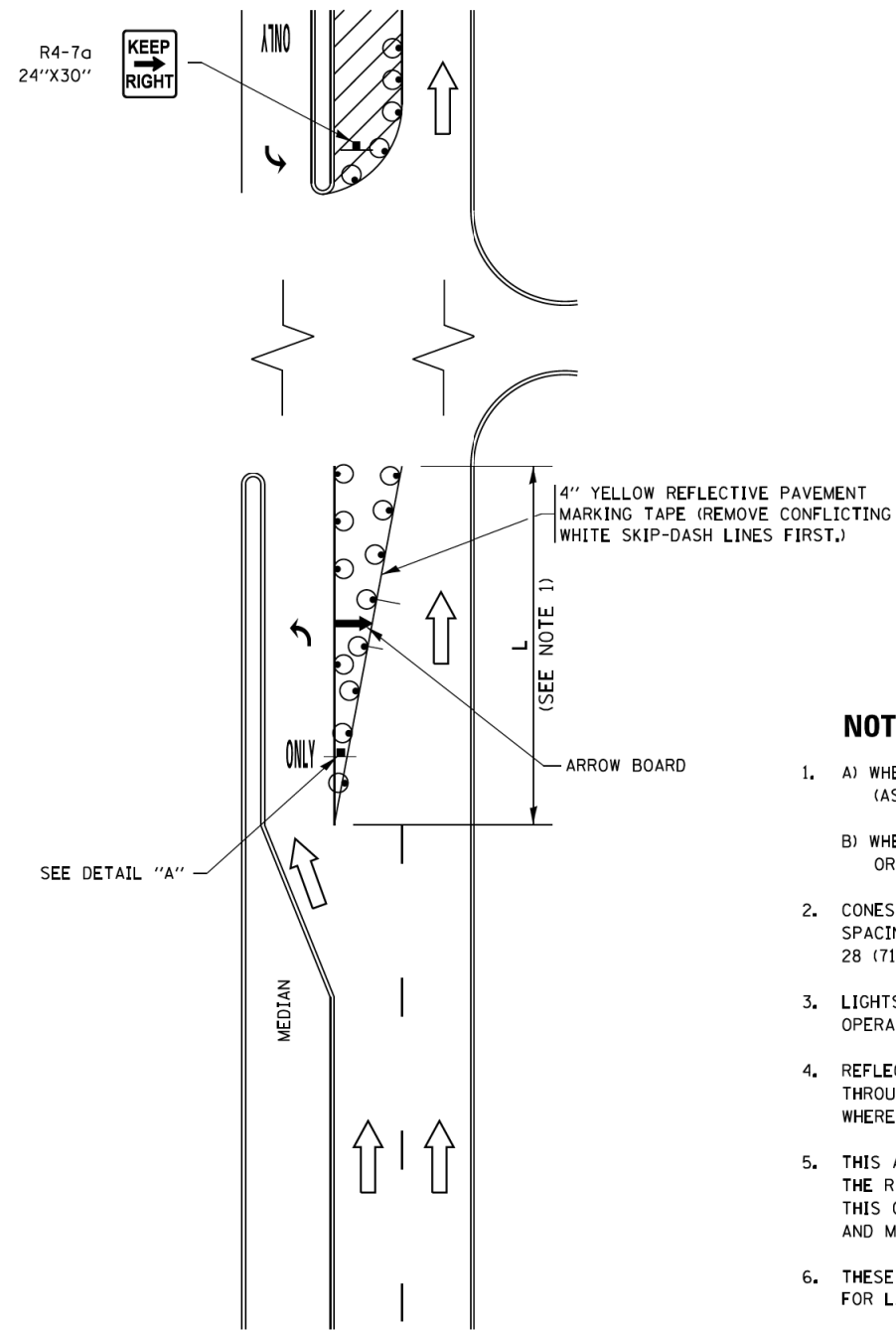
**DISTRICT ONE TYPICAL PAVEMENT MARKINGS**

SCALE: NONE	SHEET 1 OF 1 SHEETS	STA. TO STA.
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F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
360	16-00477-00-5P	KANE	80	68
TC-13		CONTRACT NO. 61F13		
ILLINOIS FED. AID PROJECT				

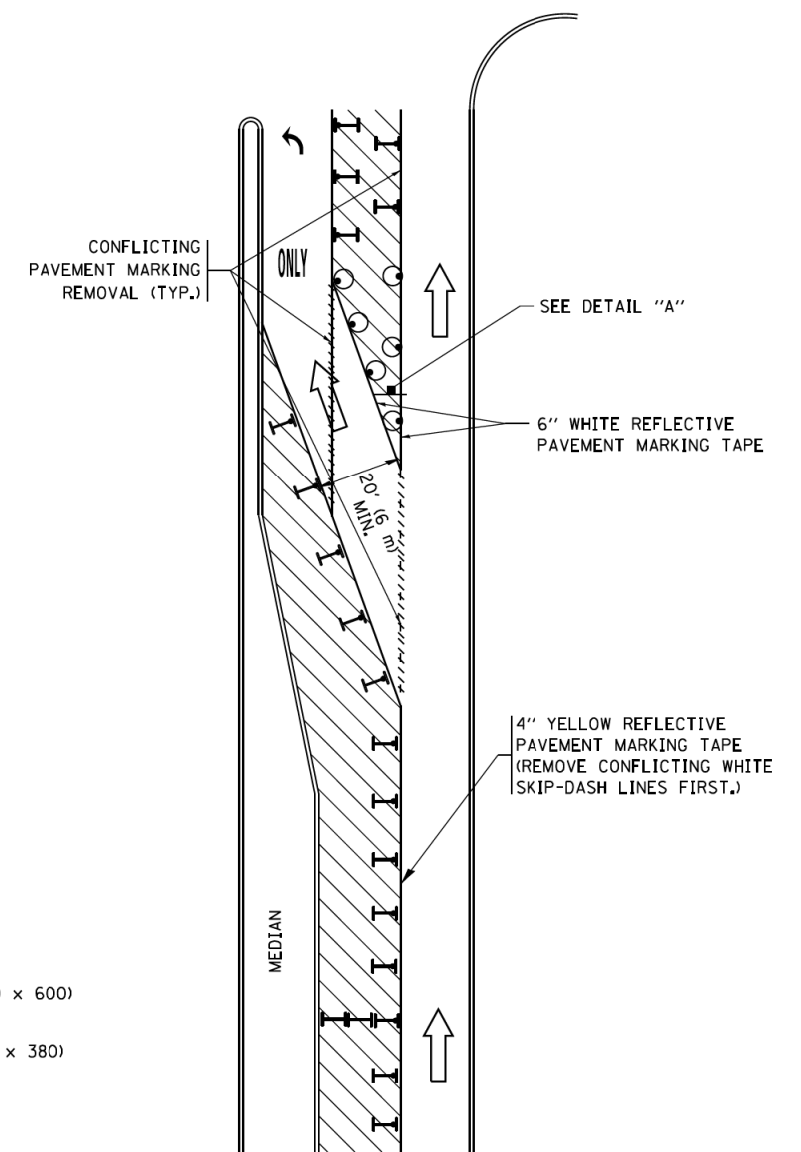


# TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER



**FIGURE 1**

# TURN BAY ENTRANCE WITHIN A LANE CLOSURE



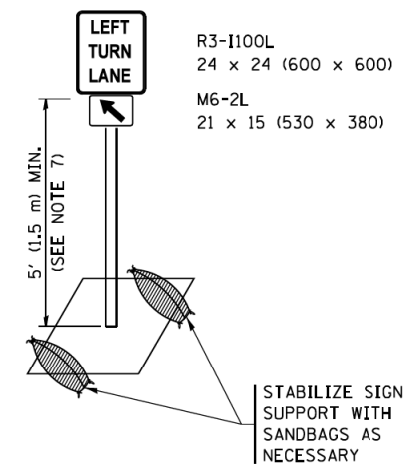
**FIGURE 2**

### LEGEND

- WORK AREA
- LANE OPEN TO TRAFFIC
- ARROW BOARD
- TYPE I OR II BARRICADE OR DRUM WITH STEADY BURN LIGHT
- DRUM WITH STEADY BURN LIGHT
- SIGN ASSEMBLY
- TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

### NOTES:

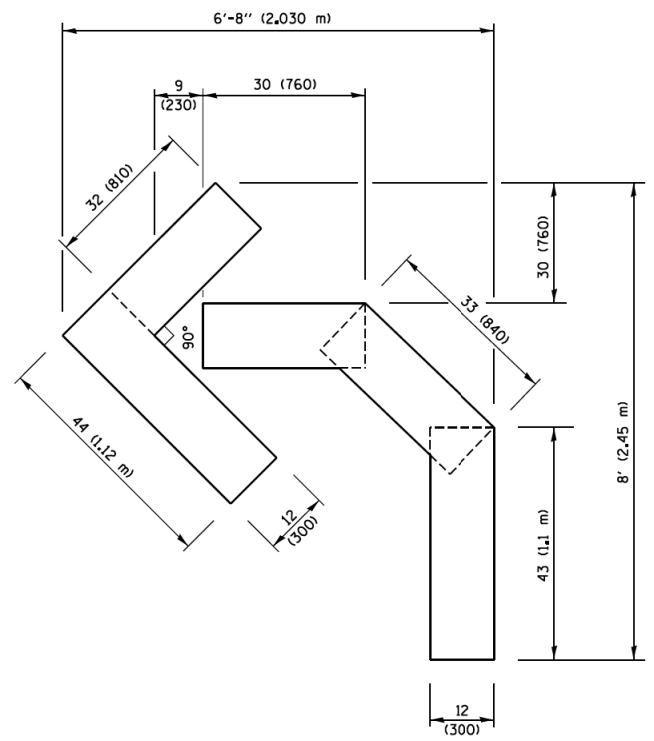
1. A) WHEN "L" IS  $\leq$  THE STORAGE LENGTH OF THE TURN LANE (AS SHOWN IN FIG. 1), USE FIGURE 1.  
B) WHEN "L" IS  $>$  THE STORAGE LENGTH OF THE TURN LANE OR THE TURN LANE IS WITHIN THE LANE CLOSURE, USE FIGURE 2.
2. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
3. LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
4. REFLECTIVE TEMPORARY PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE BARRICADED AREAS OF EACH TURN BAY AS SHOWN WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN (14) DAYS.
5. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-I100R 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
6. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
7. THE SIGNS SHALL BE MOUNTED ABOVE THE BARRICADES/DRUMS ON SEPARATE SIGN SUPPORTS THAT MEET NCHRP 350 OR MASH PRE REQUIREMENTS.
8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.



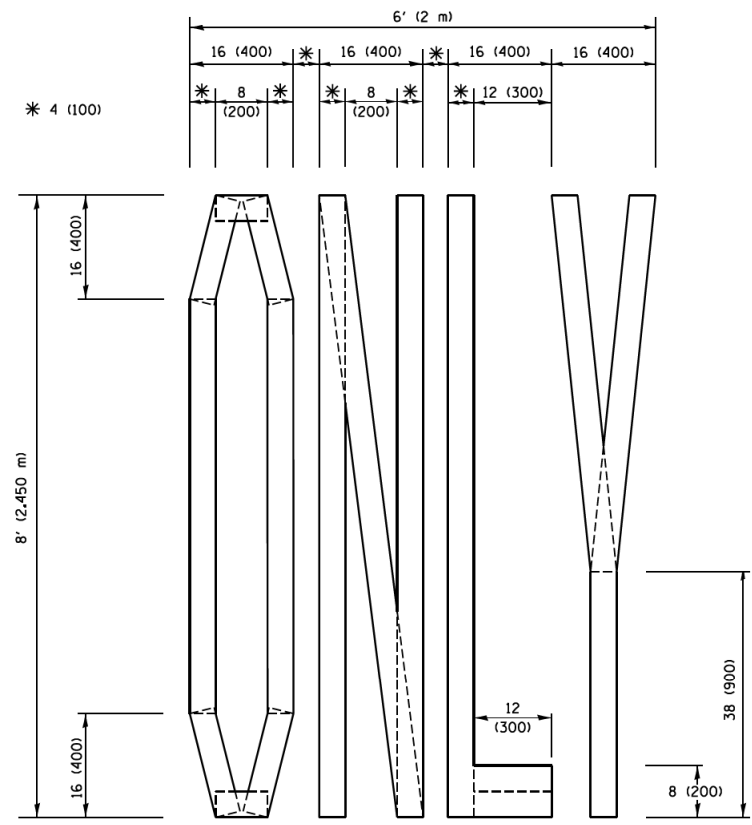
**DETAIL A**

All dimensions are in inches (millimeters) unless otherwise shown.

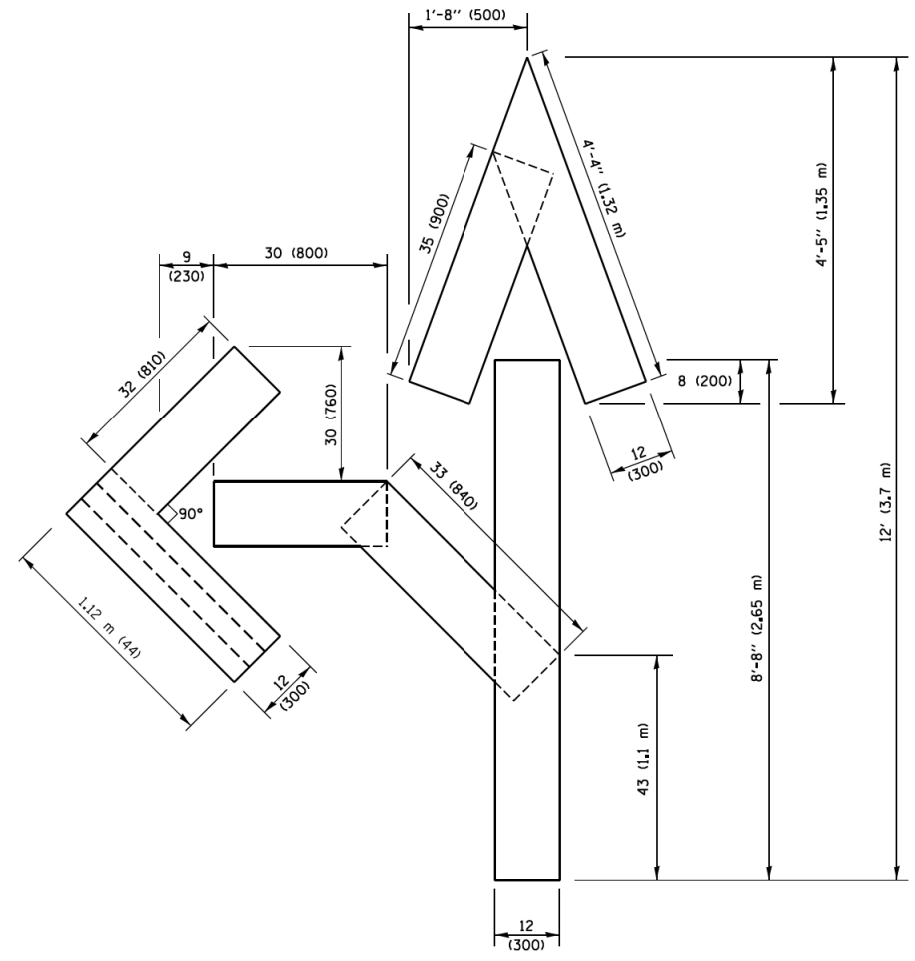
FILE NAME =	USER NAME = footemj	REVISED - T. RAMMACHER 09-08-94	REVISED - R. BORO 09-14-09	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw\l\084E8IDINTEG\Illinois.gov\PI\DOT\Documents\DOT Offices\District 1\Projects\Dist 1\ADDData\CA\HOUSEH\10-07-95	REVISED - A. HOUSEH 10-07-95	REVISED - A. SCHUETZE 07-01-13	REVISED - A. SCHUETZE 09-15-16					360	16-00477-00-5P	KANE	80	69
Default	PLOT SCALE = 50,0000' / 1in.	REVISED - A. HOUSEH 10-12-96	REVISED - A. SCHUETZE 09-15-16					<b>TC-14</b>		<b>CONTRACT NO. 61F13</b>		ILLINOIS FED. AID PROJECT
	PLOT DATE = 9/15/2016	REVISED - T. RAMMACHER 01-06-00	REVISED -	SCALE: NONE	SHEET 1	OF 1 SHEETS	STA.	TO STA.				



**QUANTITY**  
 4 (100) LINE = 45.5 ft. (13.9 m)  
 15.2 sq. ft. (1.41 sq. m)

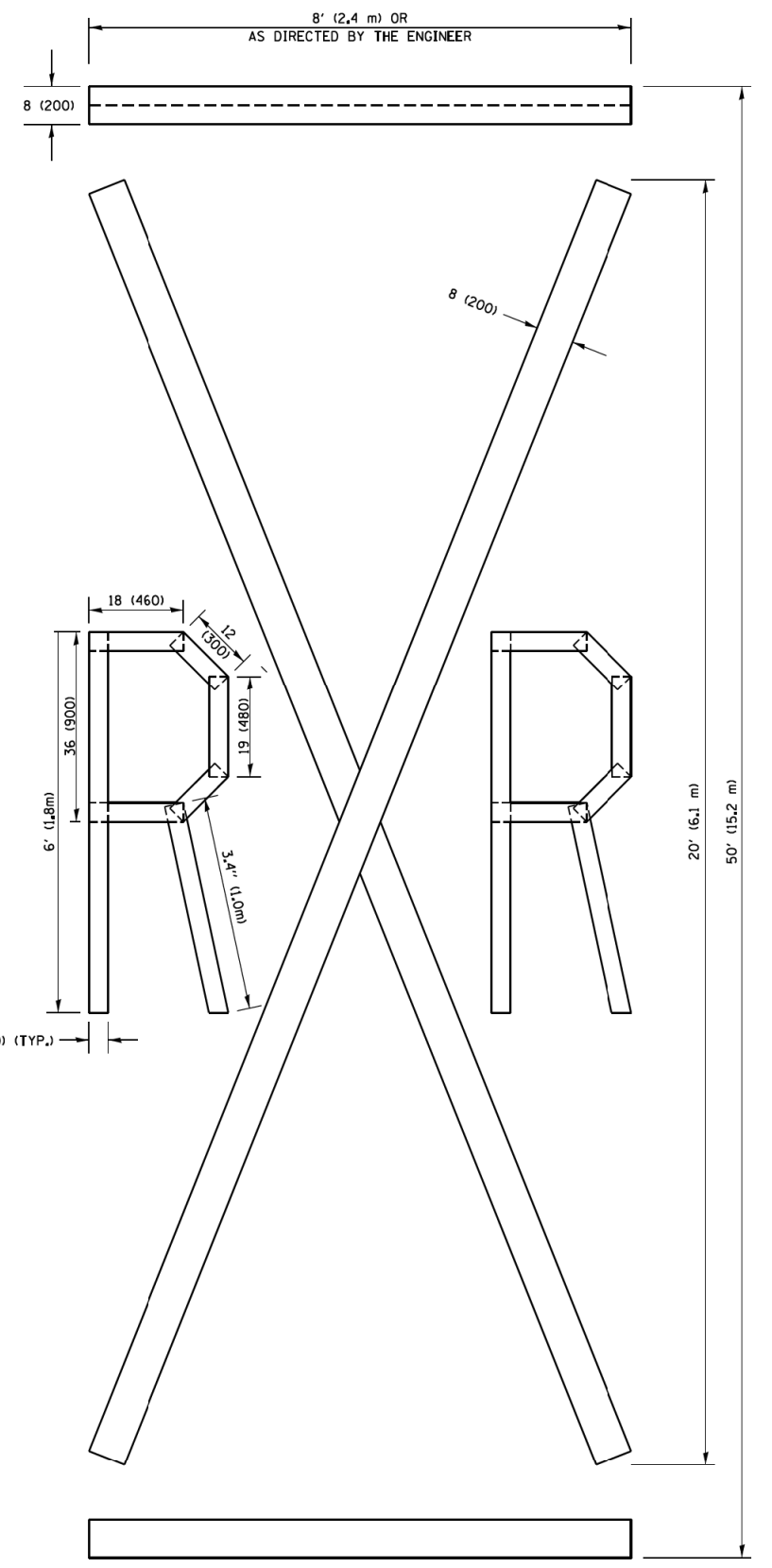


**QUANTITY**  
 4 (100) LINE = 64.1 ft. (19.5 m)  
 21.4 sq. ft. (1.99 sq. m)



**QUANTITY**  
 4 (100) LINE = 82.5 ft. (25.1 m)  
 27.5 sq. ft. (2.53 sq. m)

**NOTE:**  
 ALL QUANTITIES OF PLACEMENT ARE REPRESENTED IN LINEAR FEET OF 4" LINES TO MATCH THE 4" TEMPORARY TAPE PAY ITEM AND REPRESENTS THE TOTAL QUANTITY OF 4" TAPE REQUIRED.



**QUANTITY**  
 4 (100) LINE = 225.9 ft. (68.9 m)  
 75.3 sq. ft. (6.99 sq. m)

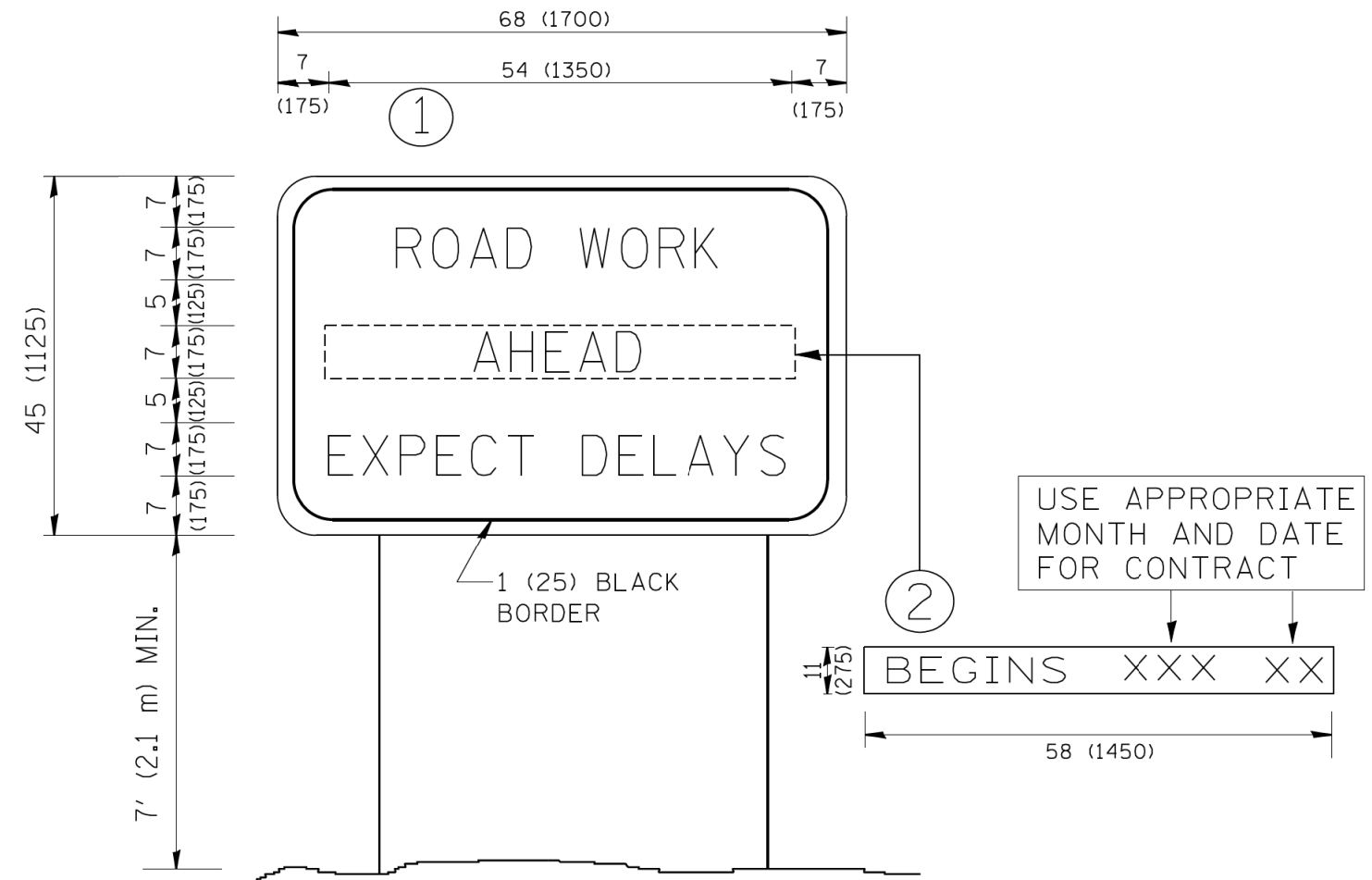
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = footemj	DESIGNED -	REVISED -T. RAMMACHER 03-02-98
pw\l\084E8IDINTEG\illinois.gov\FWIDOT\Documents\DOT Offices\District 1\Projects\Dist 1\DRM\CADData\CADsheets\tc16.dgn		CHECKED -	REVISED -E. GOMEZ 08-28-00
		DATE -	REVISED -E. GOMEZ 08-28-00
			REVISED -A. SCHUETZE 09-15-16

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS</b>			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
360	16-00477-00-5P	KANE	80	70
<b>TC-16</b>		<b>CONTRACT NO. 61F13</b>		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



**NOTES:**

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME = W:\diststd\22x34\to22.dgn	USER NAME = geglanoht	DESIGNED - DRAWN -	REVISED - R. MIRS 09-15-97 REVISED - R. MIRS 12-11-97
PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED - T. RAMMACHER 02-02-99	REVISED - C. JUCIUS 01-31-07
PLOT DATE = 1/4/2008	DATE -		

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD  
INFORMATION SIGN**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
360	16-00477-00-5P	KANE	80	71
<b>TC-22</b>			<b>CONTRACT NO. 61F13</b>	
<small>FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT</small>				



# TRAFFIC SIGNAL LEGEND

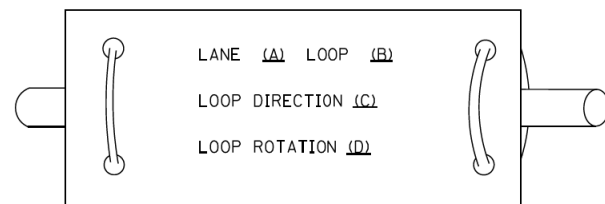
(NOT TO SCALE)

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			FIBER OPTIC CABLE -NO. 62.5/125, MM12F -NO. 62.5/125, MM12F SM12F -NO. 62.5/125, MM12F SM24F	  	  
WOOD POLE			INTERSECTION ITEM			GROUND ROD -(C) CONTROLLER -(M) MAST ARM -(P) POST -(S) SERVICE	   	   
GUY WIRE			REMOVE ITEM					
SIGNAL HEAD			RELOCATE ITEM					
SIGNAL HEAD WITH BACKPLATE			ABANDON ITEM					
SIGNAL HEAD OPTICALLY PROGRAMMED			CONTROLLER CABINET AND FOUNDATION TO BE REMOVED					
FLASHER INSTALLATION -(FS) SOLAR POWERED	 	 	MAST ARM POLE AND FOUNDATION TO BE REMOVED					
PEDESTRIAN SIGNAL HEAD			SIGNAL POST AND FOUNDATION TO BE REMOVED					
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								

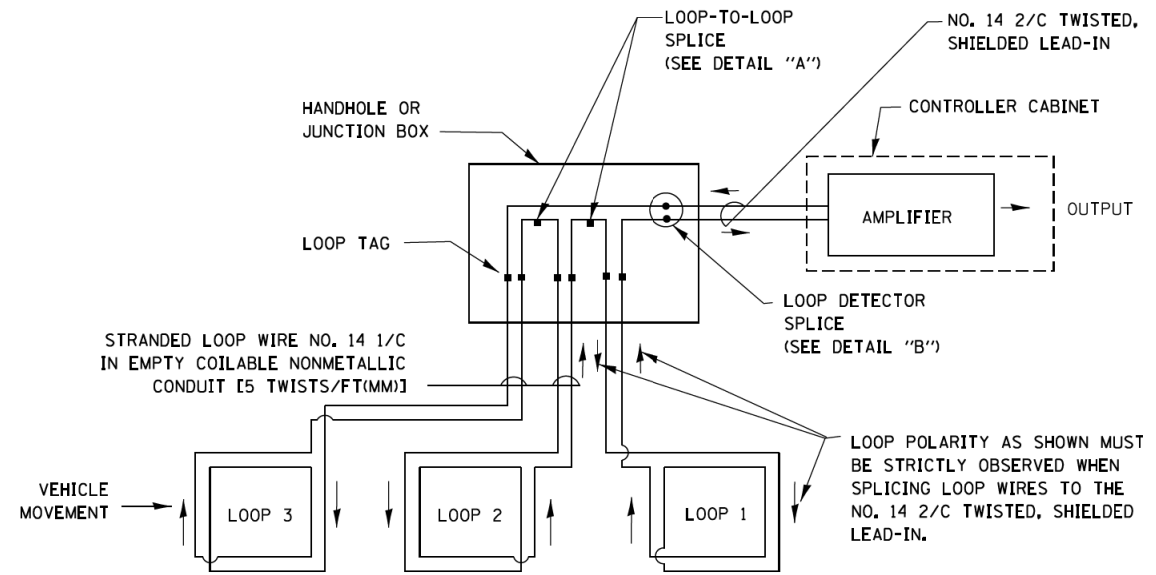
**LOOP DETECTOR NOTES**

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**

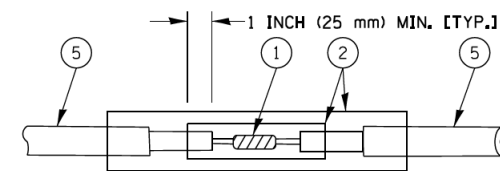


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

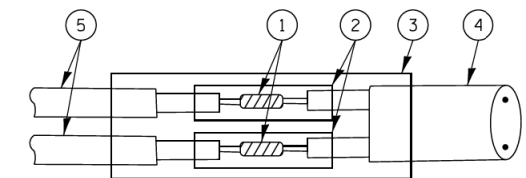


**DETECTOR LOOP WIRING SCHEMATIC**

- 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.

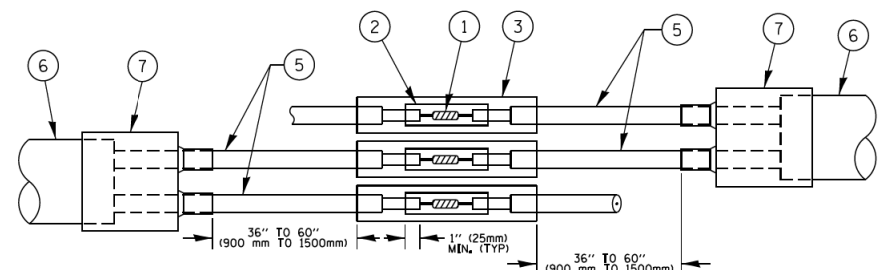


DETAIL "A"  
LOOP-TO-LOOP SPLICE

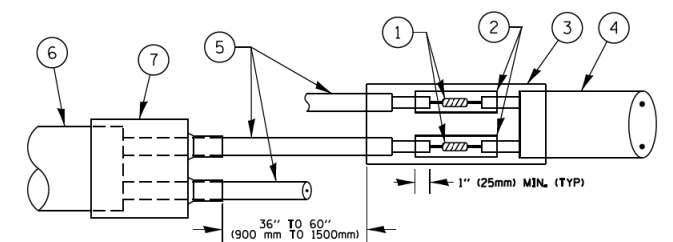


DETAIL "B"  
LOOP-TO-CONTROLLER SPLICE

**TYPE I LOOP**



DETAIL "A"  
LOOP-TO-LOOP SPLICE



DETAIL "B"  
LOOP-TO-CONTROLLER SPLICE

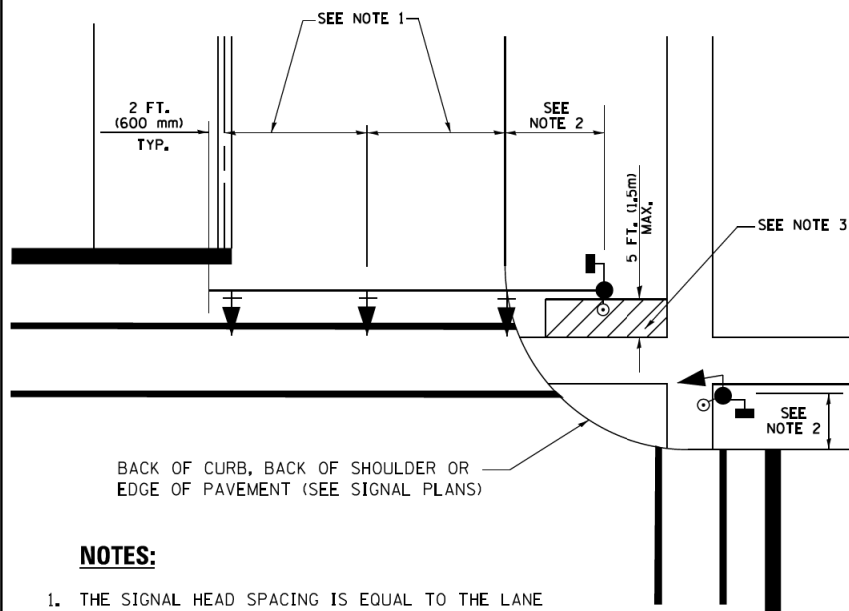
**PREFORMED LOOP**

**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 PREFORMED LOOP
- 7 XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS.

FILE NAME =	USER NAME = footemj	DESIGNED - DAD	REVISED - DAG 1-1-14	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ca:\pwr\work\pwt\dot\footemj\d0108315\ts05.dgn		DRAWN - BCK	REVISED -		SCALE: NONE	SHEET NO. 2 OF 7 SHEETS	STA.	TO STA.	360	16-00477-00-5P	KANE	80	74
		CHECKED - DAD	REVISED -						<b>TS-05</b>		CONTRACT NO. 61F13		
		DATE - 10-28-09	REVISED -						FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

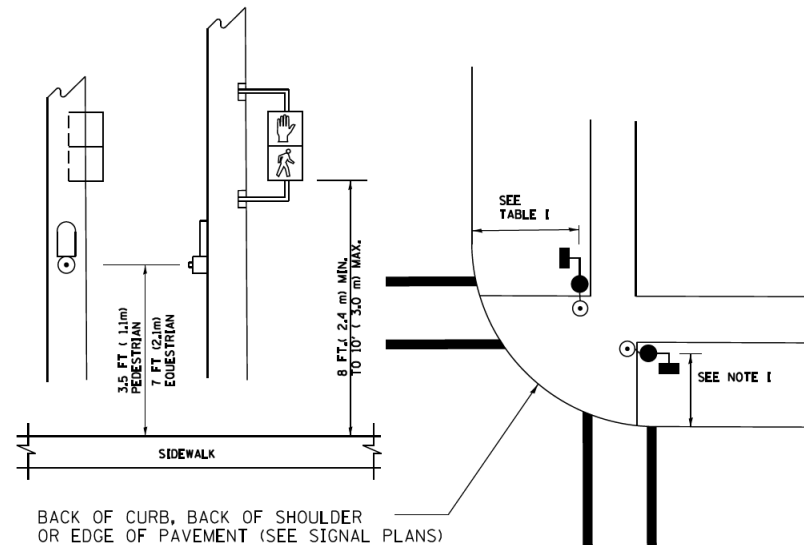
**TRAFFIC SIGNAL MAST ARM AND SIGNAL POST  
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR  
FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN  
WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.**



**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."

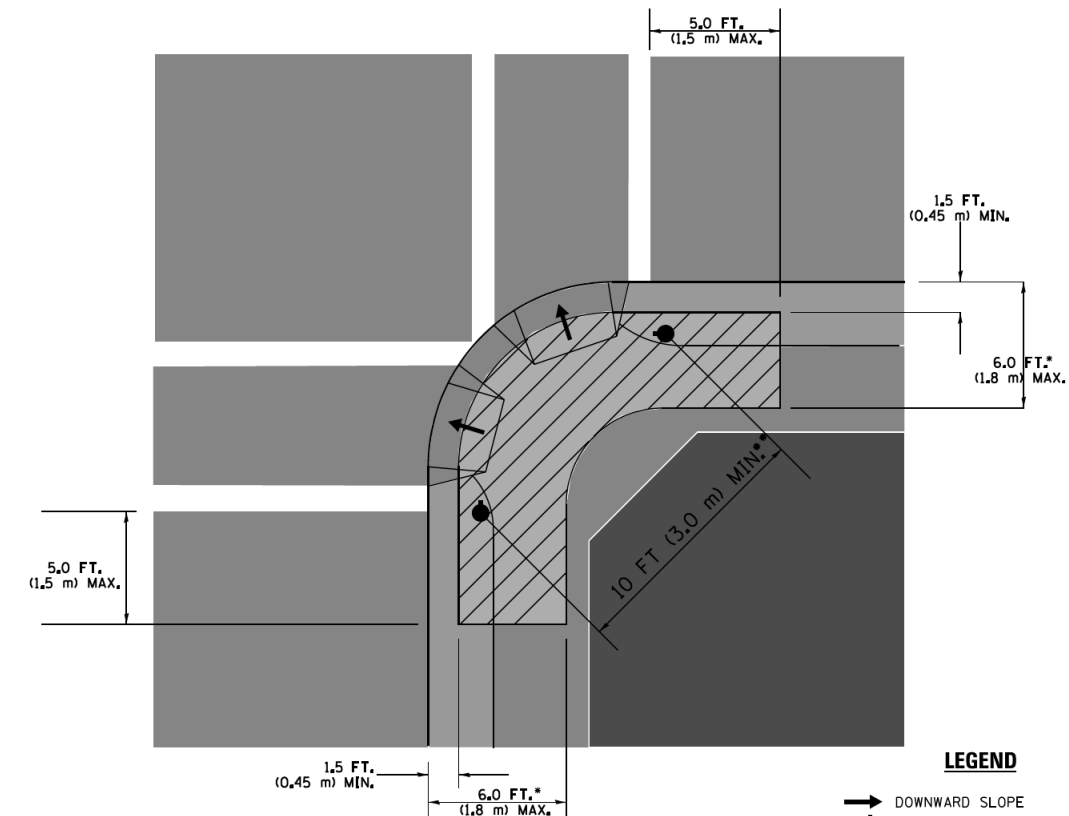
**PEDESTRIAN SIGNAL POST  
AND  
PEDESTRIAN PUSH BUTTON POST**



**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) SEPARATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

**NOTES:**

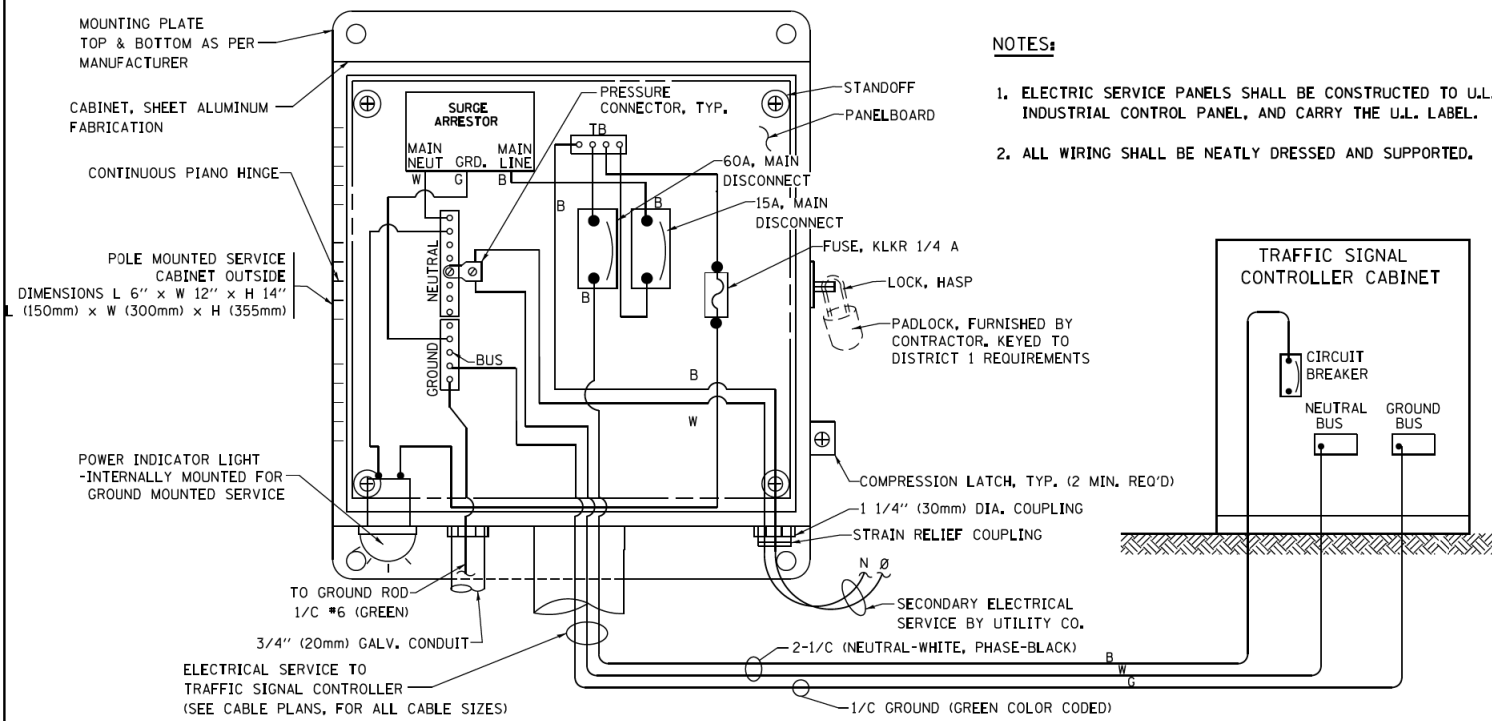
1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
2. THE BOTTOM 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**

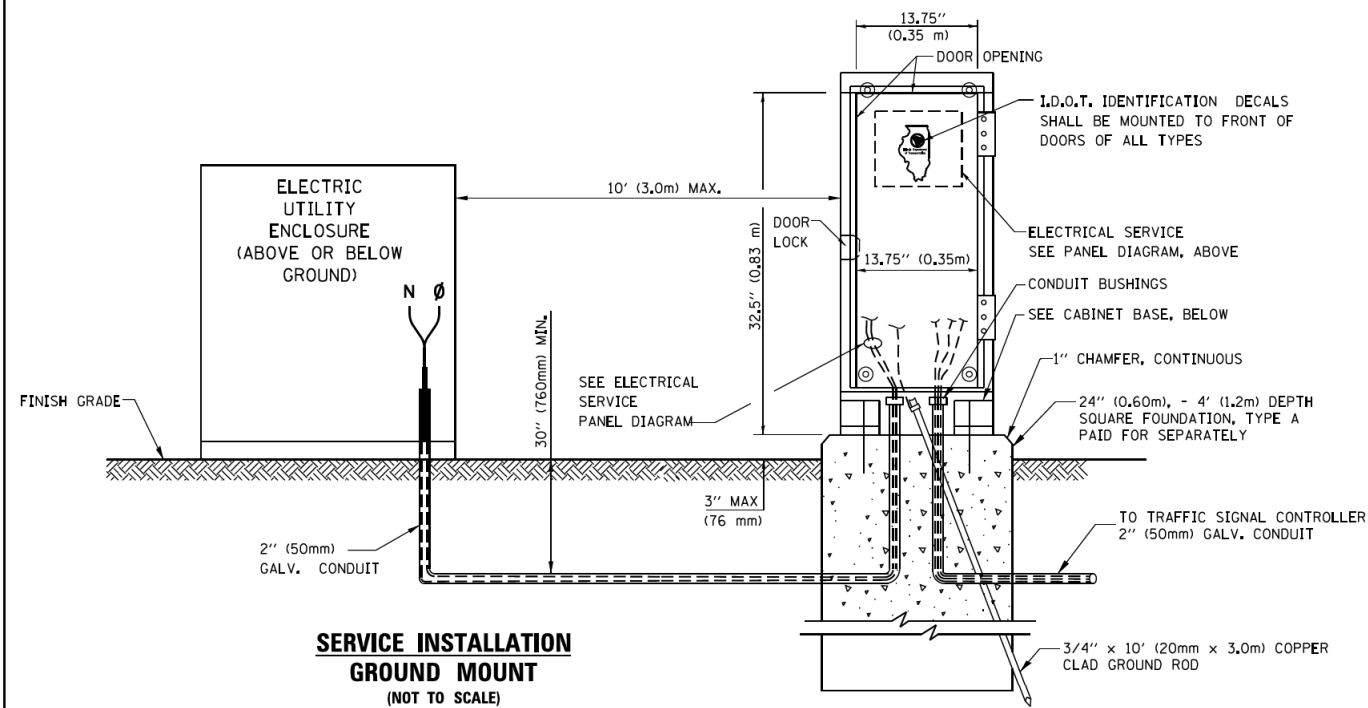
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 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:**

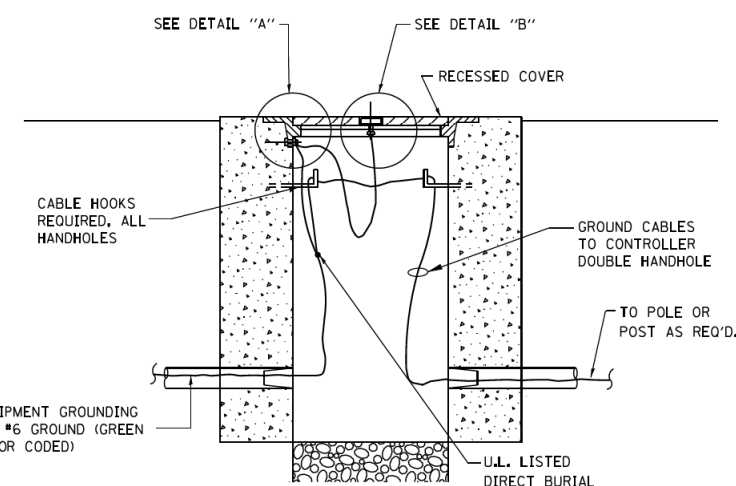
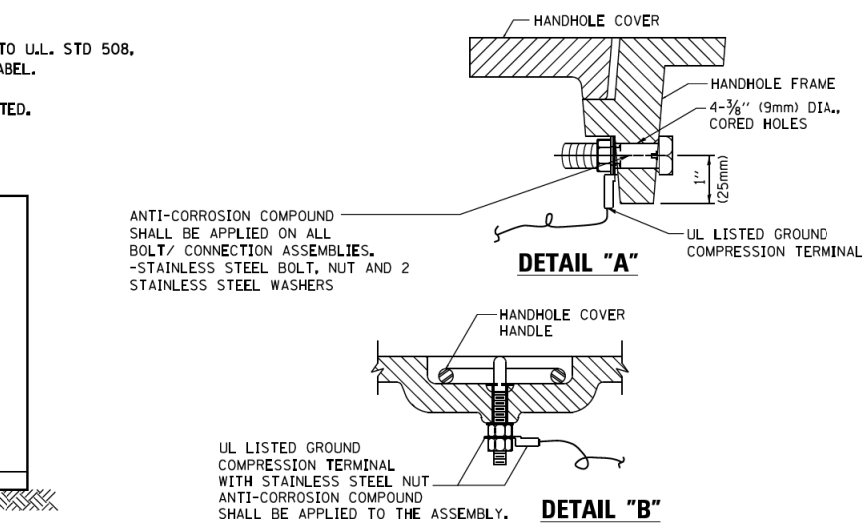
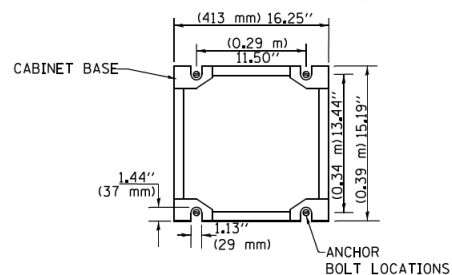
1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
3. MINIMUM 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.



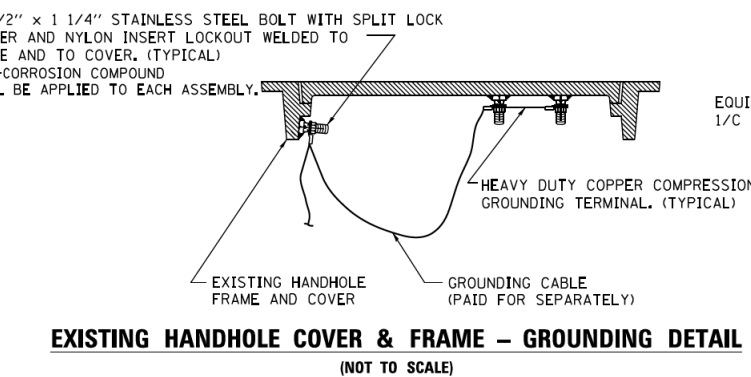
**ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)  
SERVICE INSTALLATION POLE MOUNT (SHOWN)  
(NOT TO SCALE)**



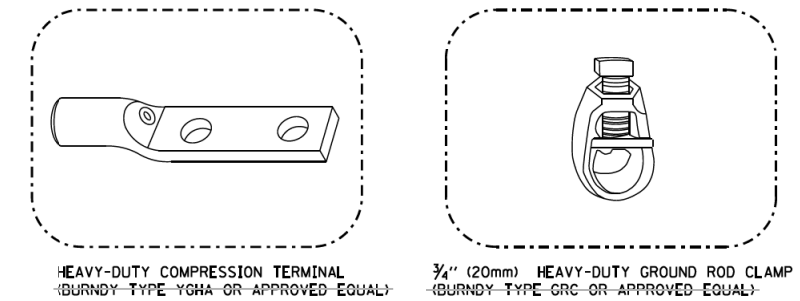
**CABINET - BASE BOLT PATTERN  
(NOT TO SCALE)**



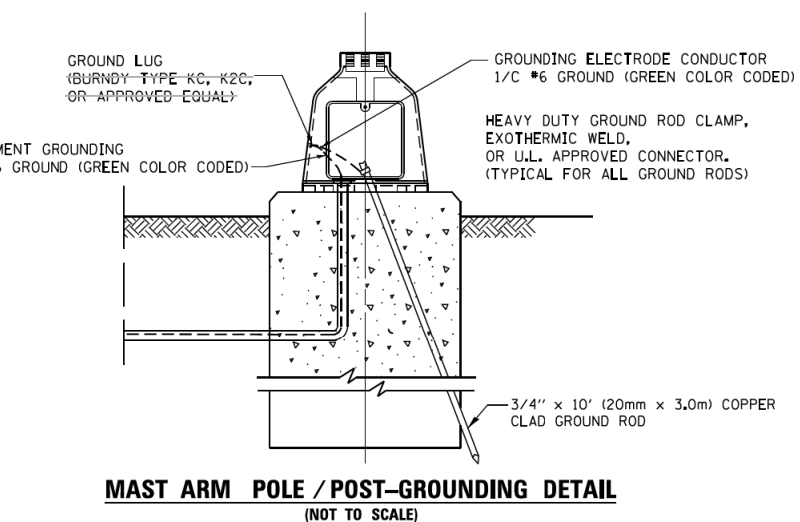
**HANDHOLE COVER & FRAME - GROUNDING DETAIL  
(NOT TO SCALE)**



**EXISTING HANDHOLE COVER & FRAME - GROUNDING DETAIL  
(NOT TO SCALE)**



- 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.



**MAST ARM POLE / POST-GROUNDING DETAIL  
(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.

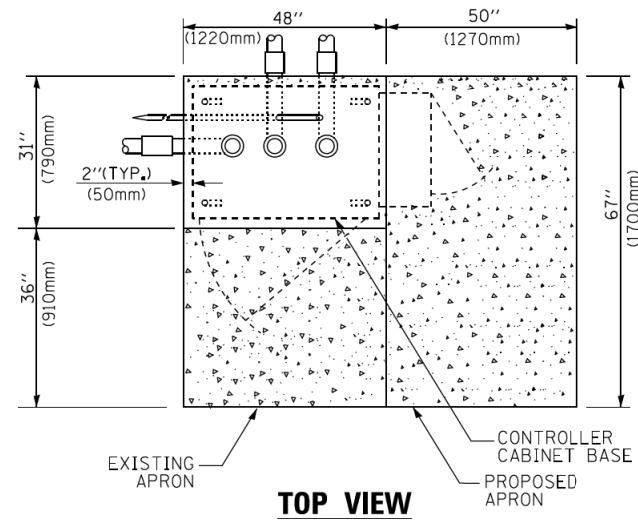
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	PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

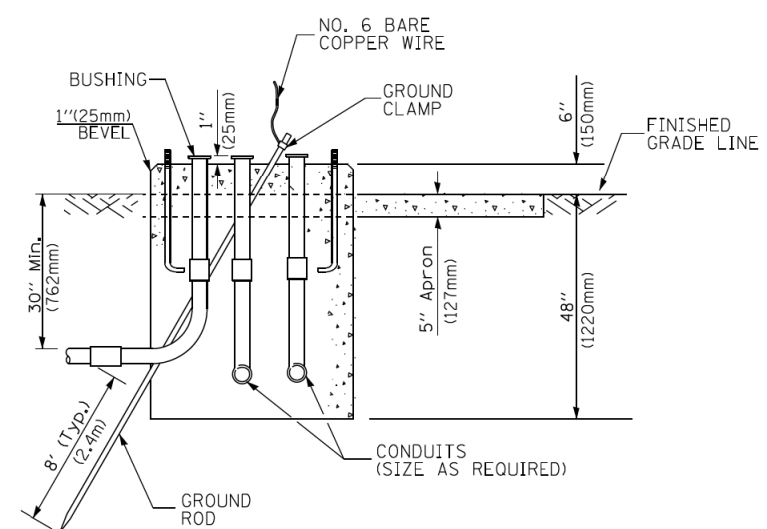
<b>DISTRICT ONE</b>	
<b>STANDARD TRAFFIC SIGNAL DESIGN DETAILS</b>	
SCALE: NONE	SHEET NO. 4 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
360	16-00477-00-5P	KANE	80	76
<b>TS-05</b>		CONTRACT NO. 61F13		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

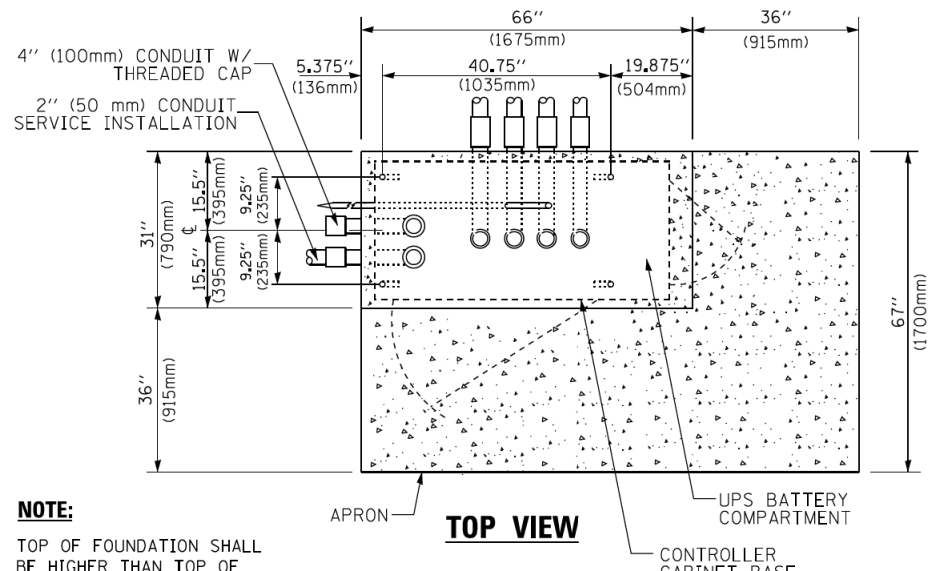




**TOP VIEW**

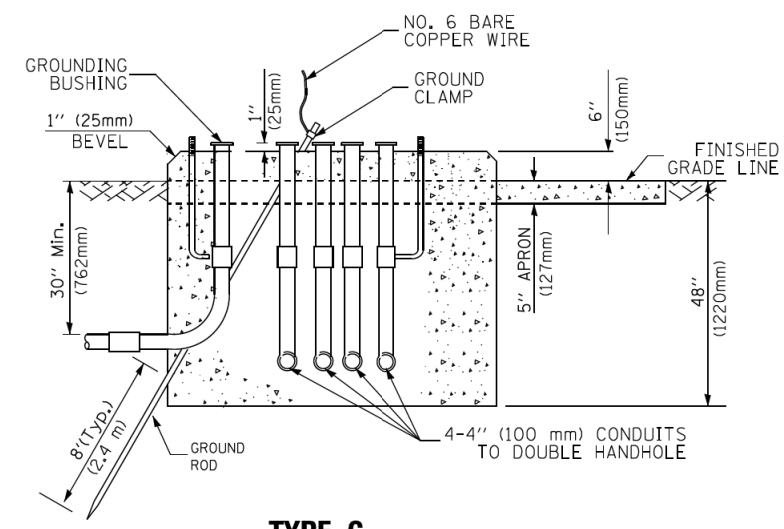


**TYPE D  
FOR GROUND MOUNTED  
CONTROLLER CABINET  
AND UPS BATTERY CABINET**

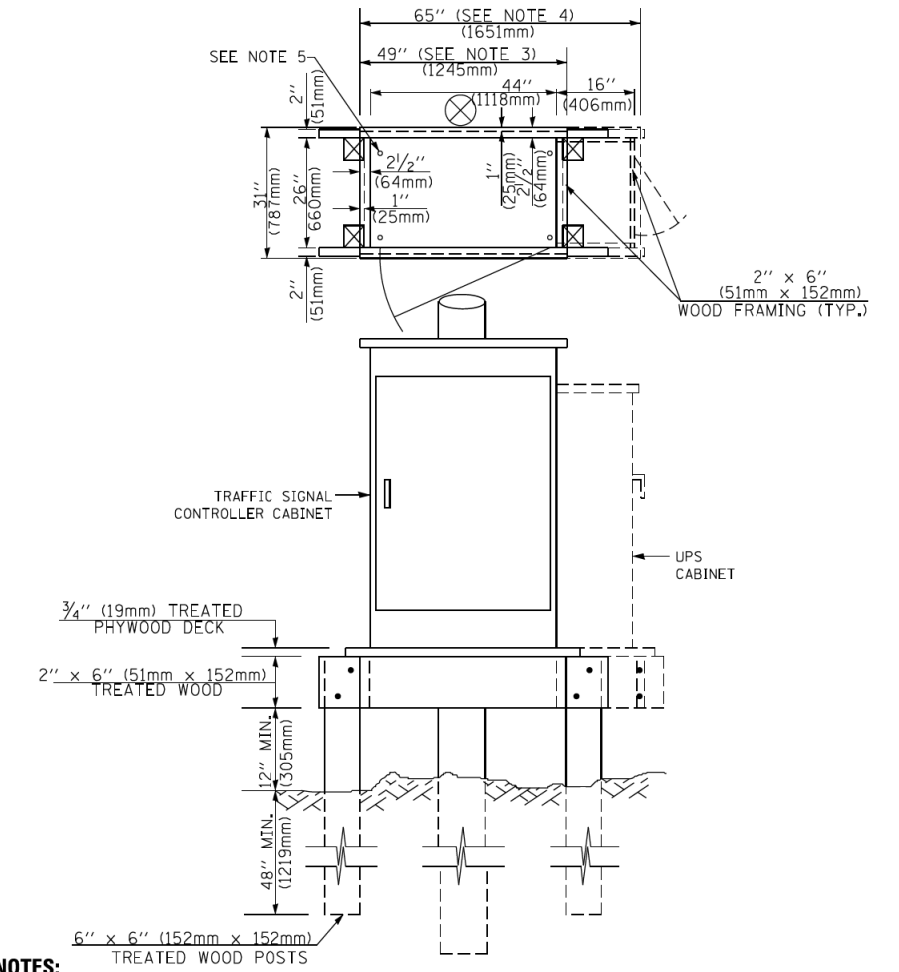


**TOP VIEW**

**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)

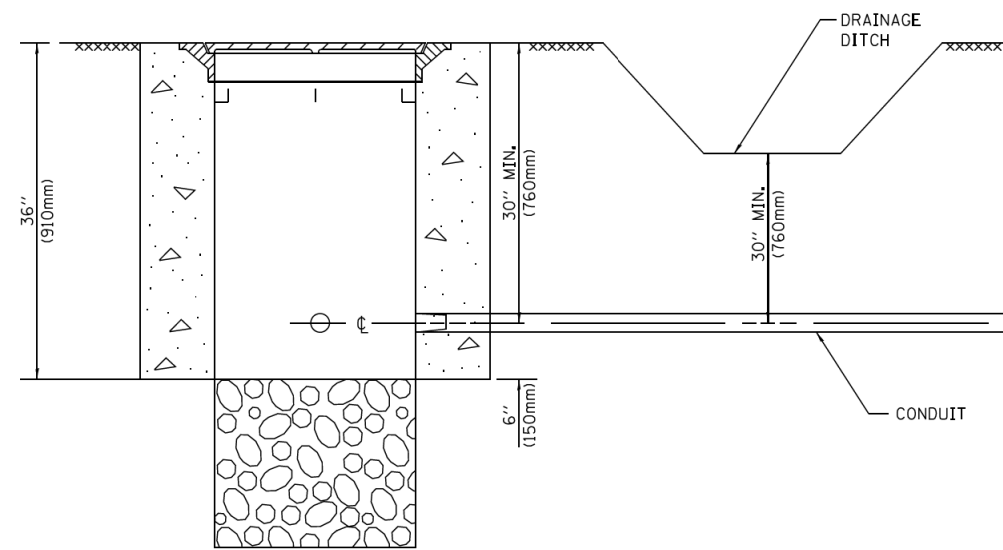
**DEPTH OF FOUNDATION**

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 less than 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..

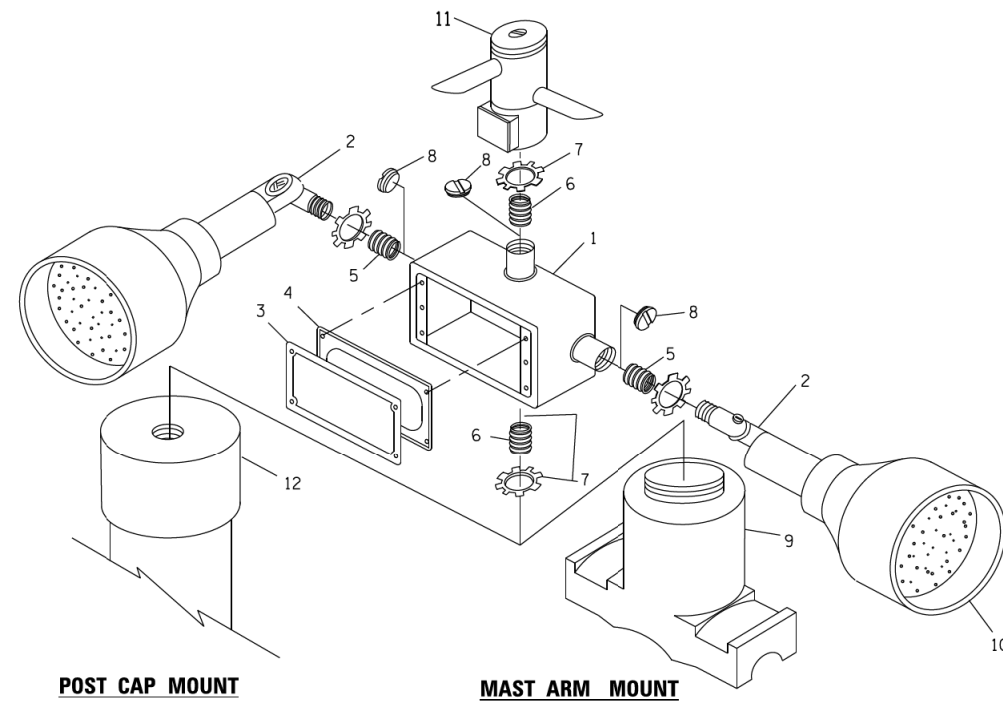
**DEPTH OF MAST ARM FOUNDATIONS, TYPE E**



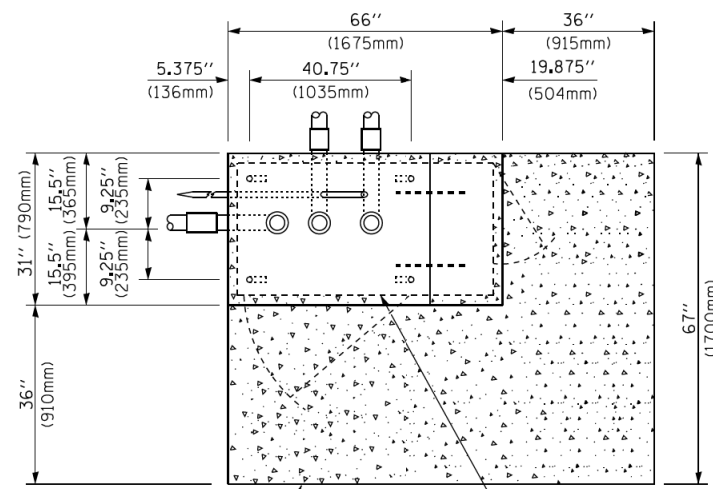
**NOTES:**

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.

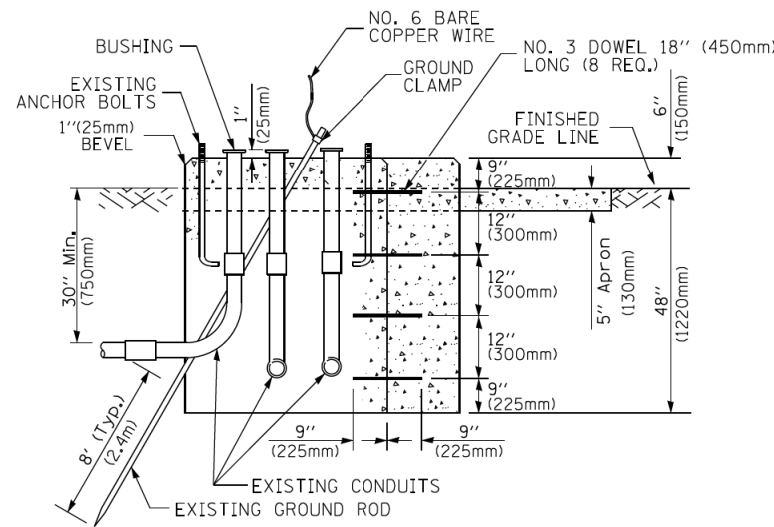
**HANDHOLE WITH MINIMUM CONDUIT DEPTH**  
(NOT TO SCALE)



**EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL**



**TOP VIEW**  
(NOT TO SCALE)

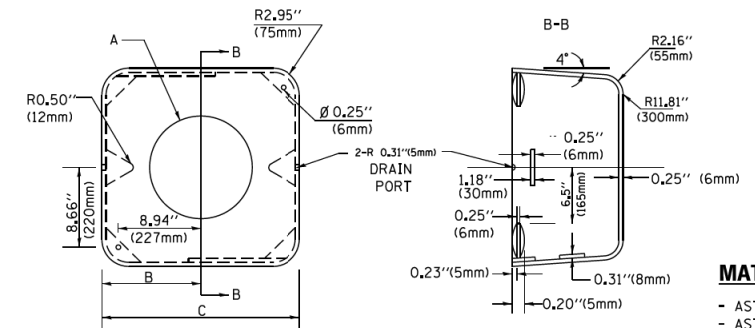


**MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION**  
(NOT TO SCALE)

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 #9 - "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
VARIES	9.5"(241mm)	19"(483mm)	7"(178mm) - 12"(300mm)	53 lbs (24kg)	
VARIES	10.75"(273mm)	21.5"(546mm)	7"(178mm) - 12"(300mm)	68 lbs (31 kg)	
VARIES	13.0"(330mm)	26"(660mm)	7"(178mm) - 12"(300mm)	81 lbs (37 kg)	
VARIES	18.5"(470mm)	37"(940mm)	7"(178mm) - 12"(300mm)	126 lbs (57 kg)	

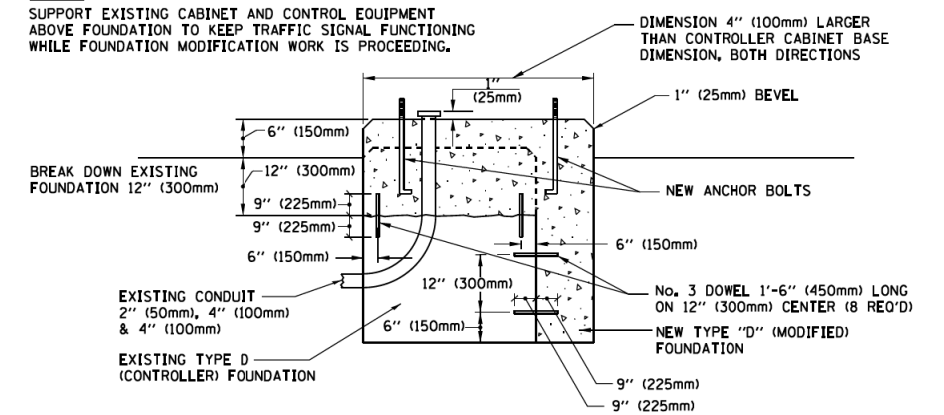
**SHROUD**

**NOTES:**

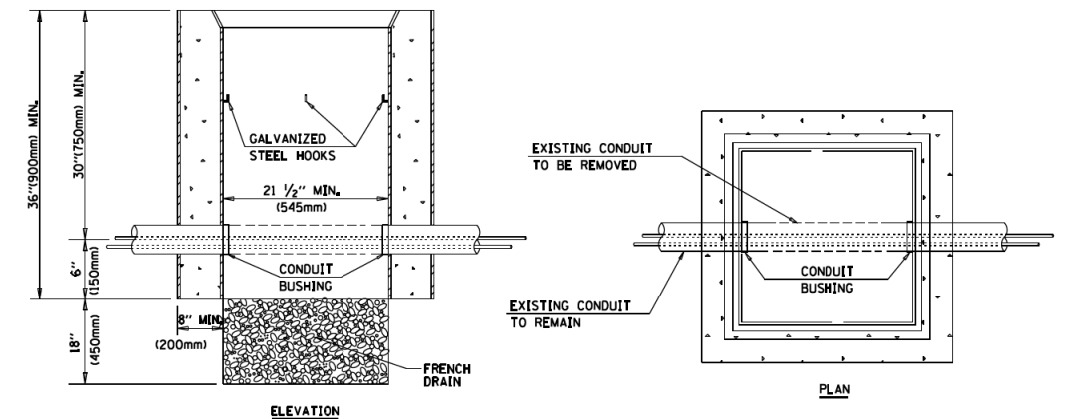
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFY THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

**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
ca:\pwr_work\pwr\dot\footemj\d0108315\ts05.dgn		DRAWN - BCK	REVISED -
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	PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISED -

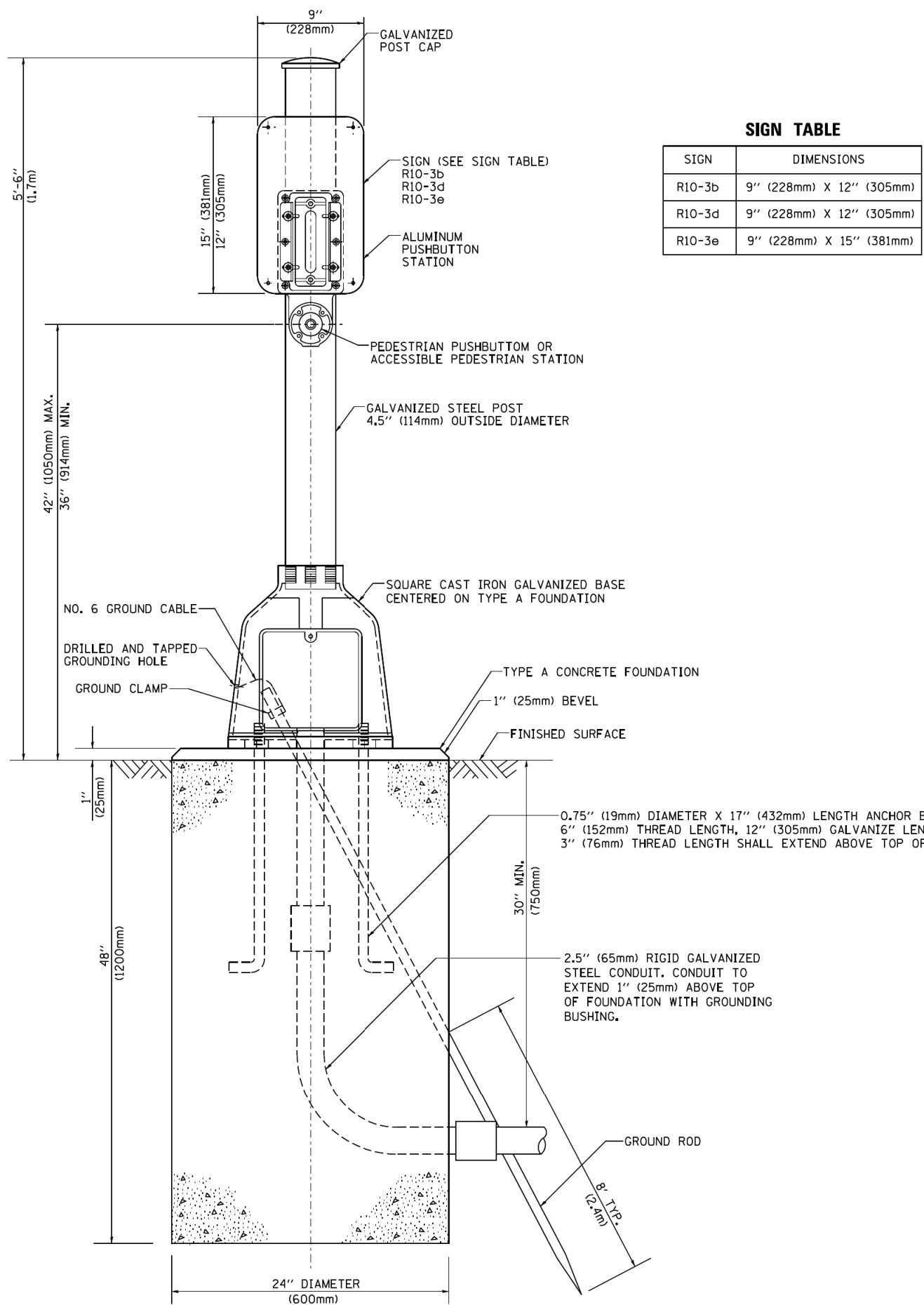
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE**  
**STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: NONE

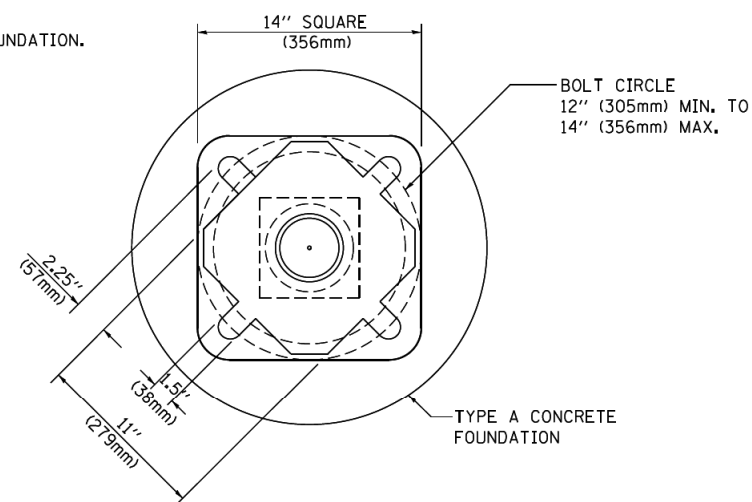
SHEET NO. 6 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
360	16-00477-00-5P	KANE	80	78
<b>TS-05</b>		CONTRACT NO. 61F13		
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
ca:\pwork\pwork\footemj\d0108315\ts05.dgn		DRAWN - GND	REVISED -
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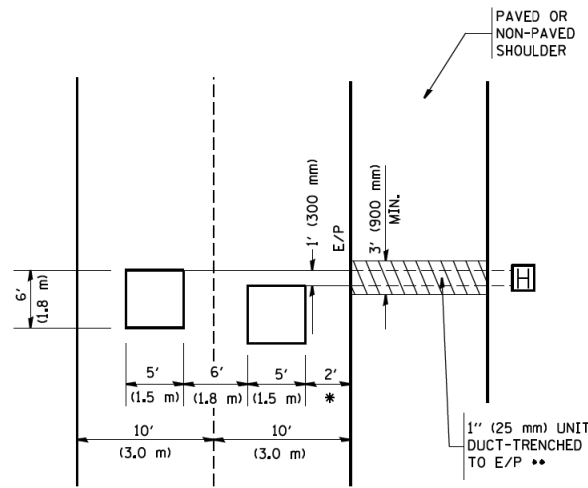
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>DISTRICT ONE</b>			
<b>STANDARD TRAFFIC SIGNAL DESIGN DETAILS</b>			
SCALE: NONE	SHEET NO. 7 OF 7 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
360	16-00477-00-5P	KANE	80	79
<b>TS-05</b>		<b>CONTRACT NO. 61F13</b>		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

**LOOPS NEXT TO SHOULDERS**

PROVIDE A PAVEMENT REPLACEMENT NOTE WHICH SHOULD EQUAL 3' (900 mm) X WIDTH OF PAVED SHOULDER.

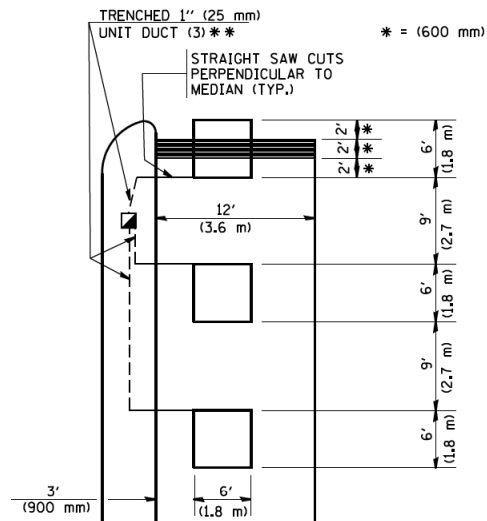


\* = (600 mm)

\*\* UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

**LEFT TURN LANES WITH MEDIANS  
VOLUME DENSITY ("FAR OUT" DETECTION)  
ON SAME APPROACH  
(PROTECTED / PERMITTED LEFT TURN PHASING)**

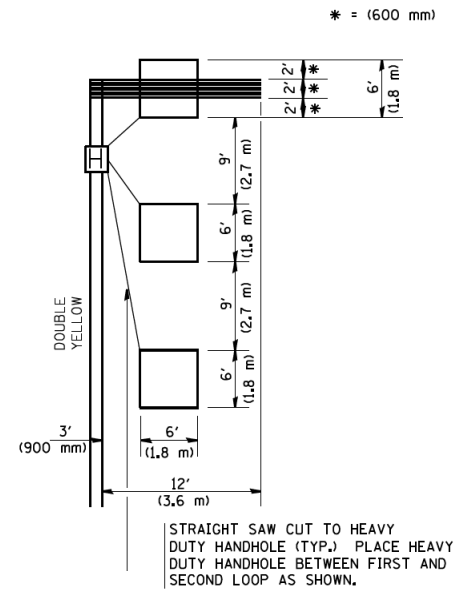
HANDHOLE LOCATION MAY VARY DEPENDING ON GEOMETRICS AND DESIGN OF TRAFFIC SIGNALS. HEAVY-DUTY HANDHOLES TO BE USED WHEN THE MEDIAN IS MOUNTABLE. REFER TO STANDARD 814001 TO ENSURE THAT HANDHOLE FITS IN MEDIAN.



\*\* UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

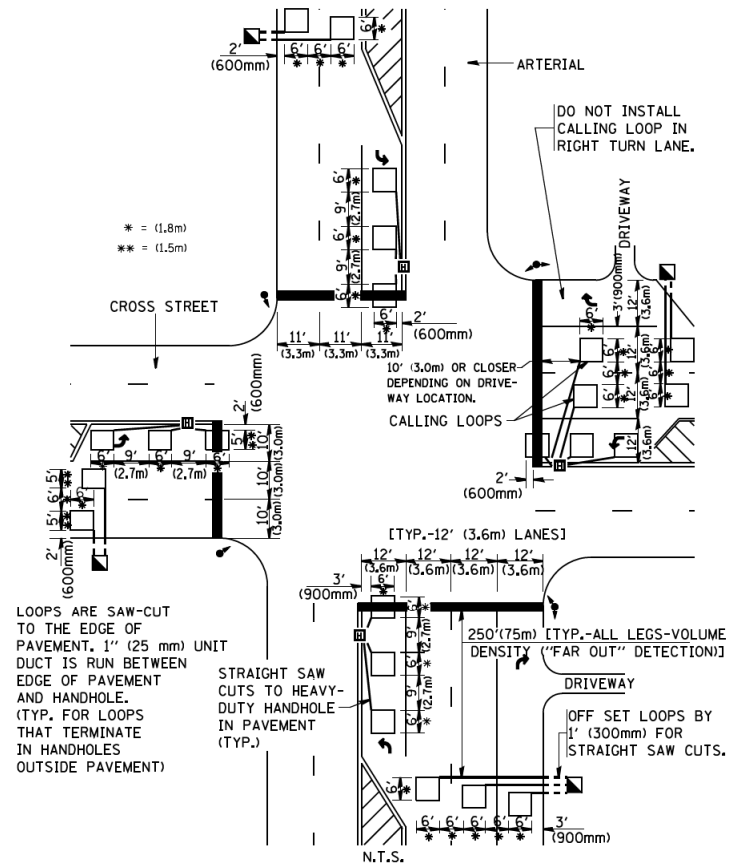
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

**LEFT TURN LANES WITHOUT MEDIANS  
VOLUME DENSITY ("FAR OUT" DETECTION)  
ON SAME APPROACH  
(PROTECTED / PERMITTED LEFT TURN PHASING)**



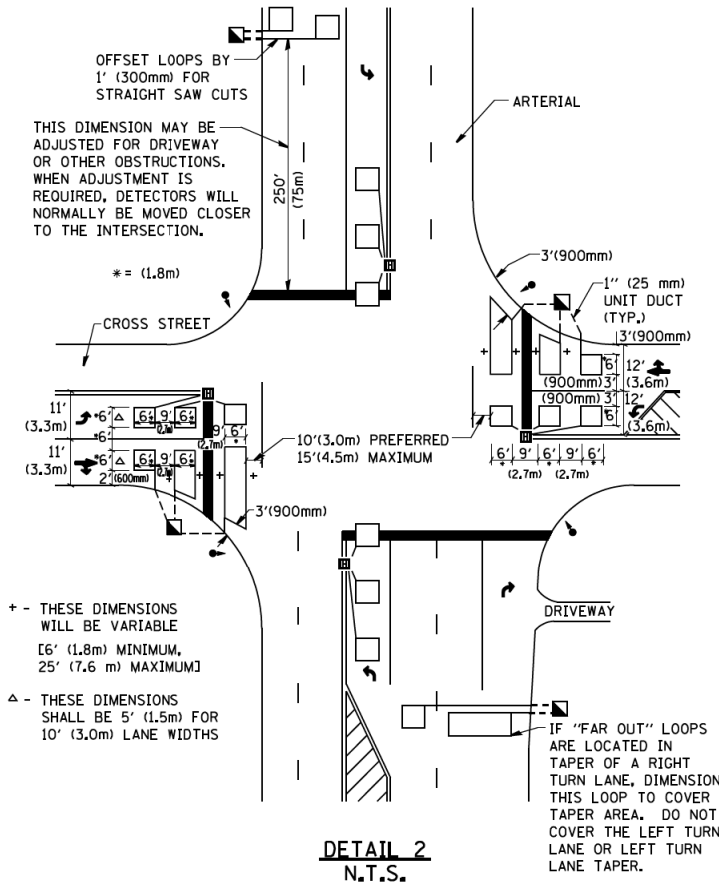
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

**ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)  
CROSS STREET-VOLUME DENSITY ("FAR OUT" DETECTION)**



**DETAIL 1**  
N.T.S.

**ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)  
CROSS STREET-NON VOLUME DENSITY ("UPTIGHT" PRESENCE DETECTION)**



**DETAIL 2**  
N.T.S.

**NOTES:**

**VEHICLES LOOP DETECTORS**

- \* ALL LEAD IN CABLE SHALL BE TWO CONDUCTOR NO. 14 TWISTED, SHIELDED.
- \* EACH DETECTOR LOOP SHALL HAVE ITS OWN SAW CUT FROM THE LOOP TO THE EDGE OF PAVEMENT OR TO A HANDHOLE IN THE PAVEMENT.
- \* EACH DETECTOR LOOP SHALL HAVE ITS OWN ONE INCH (25 mm) UNIT DUCT BETWEEN THE EDGE OF PAVEMENT AND THE FIRST HANDHOLE OR JUNCTION BOX. EACH UNIT DUCT RUN SHALL BE SHOWN ON THE PLANS BY THE DESIGNER, BUT SHALL NOT BE PAID FOR SEPARATELY. THIS ITEM IS INCIDENTAL TO THE PAY ITEM FOR DETECTOR LOOPS.
- \* ONE DIMENSION OF ALL DETECTOR LOOPS SHALL BE SIX FEET (1.8 m)
- \* EACH LANE OF NON-LOCKING, PRESENCE DETECTION AND EACH LANE OF A DOUBLE LEFT TURN LANE REQUIRES A SEPARATE INDUCTIVE LOOP DETECTOR AND LEAD IN CABLE.
- \* WHEN NON-LOCKING, PRESENCE DETECTION IS USED, MORE THAN ONE LOOP PER LANE IS REQUIRED BEHIND THE STOP BAR (i.e. 1-1/2, 1-3/4, 2).
- \* WHEN SYSTEM LOOPS ARE REQUIRED ON AN APPROACH OF AN INTERSECTION, THE LOOPS USED FOR VOLUME DENSITY AND INTERSECTION TIMING SHALL ALSO BE USED AS SYSTEM DETECTORS. EACH ONE OF THESE TYPE OF LOOPS REQUIRES A SEPARATE TWO CONDUCTOR NO. 14 TWISTED SHIELDED CABLE AND A SEPARATE INDUCTIVE LOOP DETECTOR WHEN NEW CONTROLLERS ARE UTILIZED. THE DESIGNER SHALL LABEL THESE TYPES OF LOOPS AS "INTERSECTION AND SAMPLING (SYSTEM) DETECTORS" ON THE SIGNAL LAYOUT, THE INTERCONNECT PLAN AND THE SYSTEM CABLE PLAN. WHEN AN EXISTING CONTROLLER IS UTILIZED FOR THIS TYPE OF DETECTION, THE PAY ITEM "INDUCTIVE LOOP DETECTOR WITH SYSTEM OUTPUT" SHOULD BE USED.

**PLACEMENT OF DETECTORS**

THE FOLLOWING FIGURES REPRESENT THE MOST COMMON DETECTOR LOOP LOCATIONS AND SIZES. ADJUSTMENTS WILL BE NECESSARY FOR SPECIFIC GEOMETRIC CONSIDERATIONS.

LOCATIONS AND DEMENSIONS OF DETECTOR LOOPS ARE REQUIRED ON ALL SIGNAL LAYOUT PLAN SHEETS.

"FAR OUT" DETECTION REFERS TO LOCKING, PRESENCE TYPE DETECTION LOCATED IN THRU LANES, RIGHT TURN LANES, AND RIGHT TURN LANE TAPER AREAS (IF APPLICABLE), USUALLY 250' (75 m) IN ADVANCE OF STOP BARS. "UPTIGHT" DETECTION REFERS TO NON-LOCKING PRESENCE TYPE DETECTION LOCATED IN ALL LANES AND 10'-15' (3.0 m-4.5 m) BEHIND THE CROSSING STREET'S EDGE OF PAVEMENT EXTENDED.

**NOTE:**

ALL DETAILS AND NOTES SHOWN ARE FROM THE I.D.O.T. DISTRICT 1 TRAFFIC SIGNAL DESIGN GUIDELINES DATED JANUARY 1995

THIS DRAWING HAS BEEN PREPARED TO ASSIST THE RESIDENT ENGINEER FOR ALL ROADWAY RESURFACING OR S.M.A.R.T. PROJECTS WHERE THE DIMENSIONS ARE NOT SHOWN ON THE PLANS AND THE FINAL LOCATIONS FOR CROSSWALKS OR STOP BARS ARE NOT DETERMINED.

FILE NAME = W:\dststd\22x34\ts07.dgn

USER NAME = geglanoht  
PLOT SCALE = 50.0000' / IN.  
PLOT DATE = 1/4/2008

DESIGNED -  
DRAWN -  
CHECKED - R.K.F.  
DATE -

REVISED -  
REVISED -  
REVISED -  
REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DISTRICT 1 - DETECTOR LOOP INSTALLATION  
DETAILS FOR ROADWAY RESURFACING**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
360	16-00477-00-5P	KANE	80	80
TS-07		CONTRACT NO. 61F13		
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				