09-22-2017 LETTING ITEM 023

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

LLINOIS CONTRACT NO. 66H64 D-93-001-18

KENDALL 7

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- DÉTAILS
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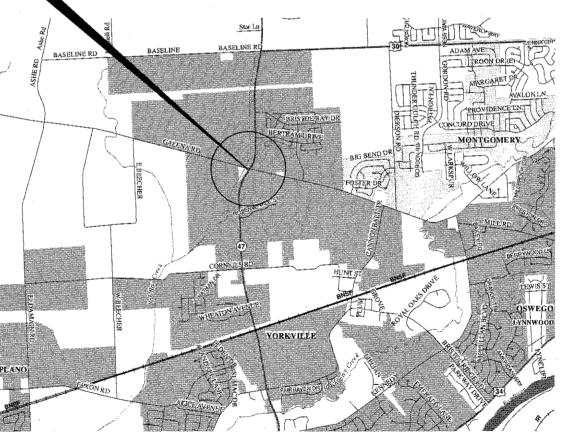
PROPOSED HIGHWAY PLANS

FAP ROUTE 326 (IL 47) SECTION (108)MRK

PAVEMENT MARKING AND SIGNAL MODIFICATION KENDALL COUNTY

C-93-001-18

SPOT IMPROVEMENT **PAVEMENT MARKING AND** SIGNAL MODIFICATION IL 47 & GALENA RD



GROSS LENGTH = 300 FT. = 0.06 MILE NET LENGTH = 300 FT. = 0.06 MILE

CONTRACT NO. 66H64

STATE OF ILLINOIS

LOCATION OF SECTION INDICATED THUS: -

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

ENGINEERING SCALES, REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123

OR 811

PROJECT ENGINEER: SCOTT A. FERGUSON

PROJECT MANAGER: JOE KANNEL

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TRAFFIC SIGNAL GENERAL NOTES

GENERAL NOTES

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FOR STABILIZATION, ALL TYPE III BARRICADES WILL REQUIRE A MINIMUM OF FOUR SAND BAGS PER BARRICADE.

THE FINISHED EARTHWORK SHALL HAVE A VEGETATION SUSTAINING SOIL COVERING THE TOP FOUR INCHES (100 MILLIMETERS) IN AREAS TO BE SEEDED OR SODDED. THE VEGETATION SUSTAINING SOIL REQUIRED WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE ASSOCIATED SIDEWALK PAY ITEMS.

ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH
CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE
RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD
SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL
NOT BE PAID FOR SEPARATELY, BUT WILL BE INCLUDED IN THE COST OF
THE ASSOCIATED REMOVAL ITEMS.

ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER SHOWN IN THE LIST OF STANDARDS OR THE COPY INCLUDED IN THESE PLANS.

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE PRESENCE OF DEPARTMENT-OWNED UNDERGROUND ELECTRICAL CABLE WITHIN THE LIMITS OF THE PROPOSED IMPROVEMENT. THE CONTRACTOR SHALL REQUEST THE ILLINOIS DEPARTMENT OF TRANSPORTATION IN OTTAWA (8)5-434-8417) TO LOCATE THE UNDERGROUND FACILITIES, PROVIDING A MINIMUM OF 72 HOURS NOTICE. THE DEPARTMENT IS NOT A MEMBER OF THE JOINT UTILITY LOCATING INFORMATION FOR EXCAVATORS (JULIE) SYSTEM.

ALL DAMAGE TO DEPARTMENT OWNED UNDERGROUND FACILITIES, CAUSED BY THE CONTRACTOR SHALL BE REPAIRED TO THE SATISFACTION OF THE DEPARTMENT AT THE CONTRACTOR'S EXPENSE. THIS SHALL INCLUDE ALL TEMPORARY REPAIRS REQUIRED TO KEEP THE FACILITY OPERATIONAL WHILE MATERIAL IS BEING OBTAINED TO MAKE PERMANENT REPAIRS. SPLICING OF ELECTRIC CABLE WILL NOT BE ALLOWED. ELECTRIC CABLE SHALL BE REPLACED FROM POLE TO POLE OR CONTROLLER.

THE CONTRACTOR SHALL CONTACT JULIE AT LEAST 48 HOURS PRIOR TO EXCAVATION TO DETERMINE WHICH UTILITIES ARE IN THE AREA.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY DURING CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. A MINIMUM OF 48 HOURS ADVANCE NOTICE IS REQUIRED FOR NON-EMERGENCY WORK. THE JULIE NUMBER IS 800-892-0123.

A 1/4" DIAMETER CONTINUOUS RODENT RESISTANT NYLON ROPE SHALL BE FURNISHED AND LEFT IN PLACE IN ALL CONDUITS BETWEEN HANDHOLES AND FOUNDATIONS OR CONTROLLER. THIS COST SHALL BE INCLUDED WITH THE COST OF CONDUIT PAY ITEM.

ALL CONDUIT IN TRENCH SHALL BE P.V.C. ALL PUSHED CONDUIT MAY BE P.V.C. OR GALVANIZED STEEL. CONDUIT ATTACHED TO STRUCTURES SHALL BE GALVANIZED STEEL.

NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR PLACING CONDUIT AT A GREATER THAN 2' MINIMUM DEPTH TO AVOID OBSTACLES SUCH AS UNDERGROUND UTILITIES.

ALL THREADS OF BOLTS USED IN THE ASSEMBLY OF TRAFFIC SIGNAL COMPONENTS SHALL BE COATED WITH A NON-LEAD BASED ANTI-SEIZE COMPOUND, SIMILAR TO LEAD PLATE, PRIOR TO ASSEMBLY.

ALL HARDWARE SHALL BE TIGHTENED AND WELL SECURED, CABLES SHALL BE NEATLY WOUND IN HANDHOLES. CABLES SHALL BE NEATLY TRAINED IN THE CONTROLLER CABINET.

ALL TRAFFIC SIGNAL WIRING SHALL EXTEND FROM CONTROLLER TO SIGNAL. SPLICES IN JUNCTION BOXES WILL NOT BE ALLOWED.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ELECTRICAL SERVICE FOR THE TRAFFIC SIGNALS. THE CONTRACTOR SHALL CONTACT THE UTILITY COMPANY PRIOR TO BEGINNING WORK TO OBTAIN THE UTILITY COMPANY REQUIREMENTS FOR THE SERVICE INSTALLATION.

ALL GROUNDING MATERIALS FOR CONCRETE FOUNDATIONS SHALL REFER TO SECTION 807 OF THE STANDARD SPECIFICATIONS.

ALL AREAS DISTURBED BY THE CONTRACTOR SHALL BE RESTORED WITH SEED OR SOD TO THE SATISFACTION OF THE ENGINEER. SEEDING OR SODDING SHALL NOT BE PERMITTED AT ANY TIME WHEN THE CROUND IS FROZEN, WET. OR IN AN UNTILLABLE CONDITION.

THE TRAFFIC SIGNAL SECTION AT THE ILLINOIS DEPARTMENT OF TRANSPORTATION SHALL BE NOTIFIED AT (815) 434-6131 AT LEAST 72 HOURS PRIOR TO TURNING ON ANY FLASHER OR CONTROLLER UNITS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF THE TRAFFIC SIGNAL INSTALLATION FOR THE DURATION OF THE SIGNAL WORK, FOR THIRTY (30) DAYS FOLLOWING THE FINAL INSPECTION, AND AS DESCRIBED IN SECTION 801.19 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

START & END DATES
OF CONSTRUCTION:

INSPECTORS:

ALL SIGNAL BASES SHALL BE LOCATED A MINIMUM OF (6 FEET) FROM THE BACK OF CURB UNLESS OTHERWISE DIRECTED BY ENGINEER.

ALL TRAFFIC SIGNAL HEADS SHALL BE (12 INCH) POLYCARBONATE.

ALL BACKPLATES SHALL BE VACUUM-FORMED POLYCARBONATE WITH A DEEP BACK FLANGE.

A DOUBLE HANDHOLE SHALL CONTAIN 13 FEET OF SLACK, HANDHOLE SHALL CONTAIN 6.5 FEET OF SLACK, J-BOX SHALL CONTAIN 1.5 FEET OF SLACK, EACH CABLE NEATLY WOUND ON THE HOOKS WITH TIE WRAPS. CABLES SHALL EACH BE LABELLED WITH PLASTIC TAGS THE CABLE SHALL BE PAID FOR AT ITS INDIVIDUAL UNIT PRICE.

THE ELECTRICAL CONDUCTORS FOR ALL TRAFFIC SIGNAL HEADS SHALL BE SOLID, SOFT COPPER.

ALL DETECTOR LOOP HARNESSES SHALL BE FURNISHED WITH PLASTIC TAGS LABELED WITH RESPECTIVE PHASE DIRECTION OF TRAFFIC AND LANE. ALL DETECTOR AMPLIFIERS SHALL BE LABELED THE SAME AS THE HARNESSES WITH A REMOVABLE TAG. THE AMPLIFIER TAG SHALL BE MOUNTED DIRECTLY BELOW EACH AMPLIFIER ON THE RACK. LABELING SHALL BE MADE IN A 16 POINT FONT SIZE UTILIZING A CLEAR AND LEGIBLE FONT.

THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF UNCOVERING OR HAND DIGGING AROUND UTILITIES AS NECESSARY, INCIDENTAL TO THE CONDUIT PAY ITEM.

ALL THREADS OF BOLTS USED IN ASSEMBLY OF TRAFFIC SIGNAL COMPONENTS SHALL BE COATED WITH A NON-LEAD BASED ANTI-SEIZE COMPOUND, SIMILAR TO LEAD PLATE, PRIOR TO ASSEMBLY.

GROUND RODS SHALL BE SOLID COPPER ALLOY OR COPPER CLAD STEEL.

ALL CONDUIT IN TRENCH SHALL BE PVC. ALL CONDUIT PUSHED MAY BE GALVANIZED STEEL OR PVC. CONDUIT ATTACHED TO STRUCTURES SHALL BE GALVANIZED SIFE!

CONDUITS SHALL BE PLACED AT A MINIMUM DEPTH OF 0.60 METERS (2 FEET).

ALL DETECTOR AMPLIFIERS SHALL BE SINGLE CHANNEL AND SHELF MOUNTED.

COMMITMENTS: NONE

ALL EXCAVATED MATERIAL, WHICH INCLUDES DIGGING OR GRADING OF ANY SOIL OR FILL MATERIAL, WITH THE EXCEPTION OF AGGREGATE FILLS, MUST BE INCORPORATED WITHIN THE IDOT RIGHT OF WAY DUE TO ENVIRONMENTAL DOCUMENTATION REQUIREMENTS.

LIST OF ILLINOIS DOT HIGHWAY STANDARDS

000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PAITERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
701001-02	OFF-ROAD OPERATIONS 2L, 2W, MORE THAN 15' (4.5 m) AWAY
701006-05	OFF-ROAD OPERATIONS 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM
	PAVEMENT EDGE
701201-04	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS **e" 45 MPH
701301-04	LANE CLOSURE, 2L. 2W, SHORT TIME OPERATIONS
701901-06	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
873001-02	TRAFFIC SIGNAL GROUNDING & BONDING
878001-10	CONCRETE FOUNDATION DETAILS
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS
886001-01	DETECTOR LOOP INSTALLATIONS
886006-01	TYPICAL LAYOUT FOR DETECTION LOOPS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DISTRICT THREE
AS BUILT INFORMATION

SUPERVISING CONSTRUCTION FIELD ENGINEER

PREPARED BY:

DATE:

DISTRICT STUDIES & PLANS ENGINEER

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION
DISTRICT THREE

RESIDENT ENGINEER / TECHNICIAN

EXAMINED BY:

DISTRICT CONSTRUCTION ENGINEER

While Da. Shul you DISTRICI MATERIALS ENGINEER

DISTRICT OPERATIONS ENGINEER

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GENERAL	NOTES,	STAND	ARDS, A	ND	SIGNATURE	SHEET
SCALE:	SHEET	OF	SHEETS	STA.	TO :	STA.

			[CONSTR. CODE
				100% STATE
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	TRAFFIC SIGNALS 0021 URBAN
7100100	MOBILIZATION	LSUM	1	-1
0100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	LSUM	1	1
72000100	SIGN PANEL - TYPE 1	SQ FT	6	6
72400310	REMOVE SIGN PANEL - TYPE 1	SQ FT	6	6
73000100	WOOD SIGN SUPPORT	FOOT	15	15
78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	200	200
78008230	POLYUREA PAVEMENT MARKING TYPE I - LINE 6"	FOOT	225	225
78008240	POLYUREA PAVEMENT MARKING TYPE I - LINE 8"	FOOT	225	225
78008270	POLYUREA PAVEMENT MARKING TYPE I - LINE 24"	FOOT	24	24
31028320	UNDERGROUND CONDUIT, PVC, 1" DIA.	FOOT	25	25
81028350	UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	25	25
35000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1	1
7301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	160	160
37301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	330	330

^{*} SPECIALTY ITEMS

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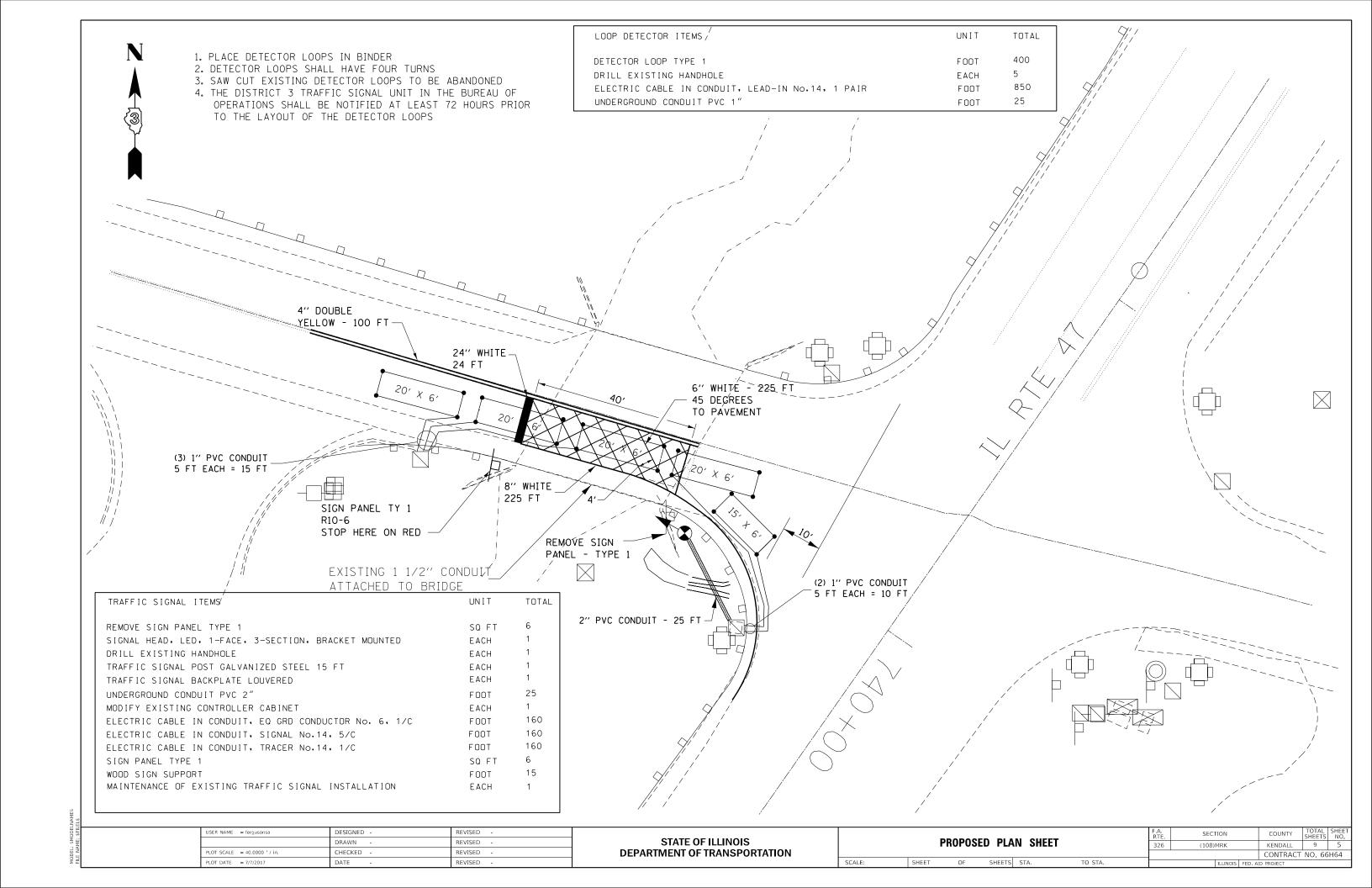
				CONSTR. CODE
				100% STATE
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	TRAFFIC SIGNALS 0021 URBAN
37301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	160	160
37502490	TRAFFIC SIGNAL POST, GALVANIZED STEEL 15 FT.	EACH	1	1 .
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	3	3
87900200	DRILL EXISTING HANDHOLE	EACH	6	6
38030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1	1
88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	1	1
88600100	DETECTOR LOOP, TYPE I	FOOT	400	400
89502200	MODIFY EXISTING CONTROLLER	EACH	1	1
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	200	200
X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	50	50

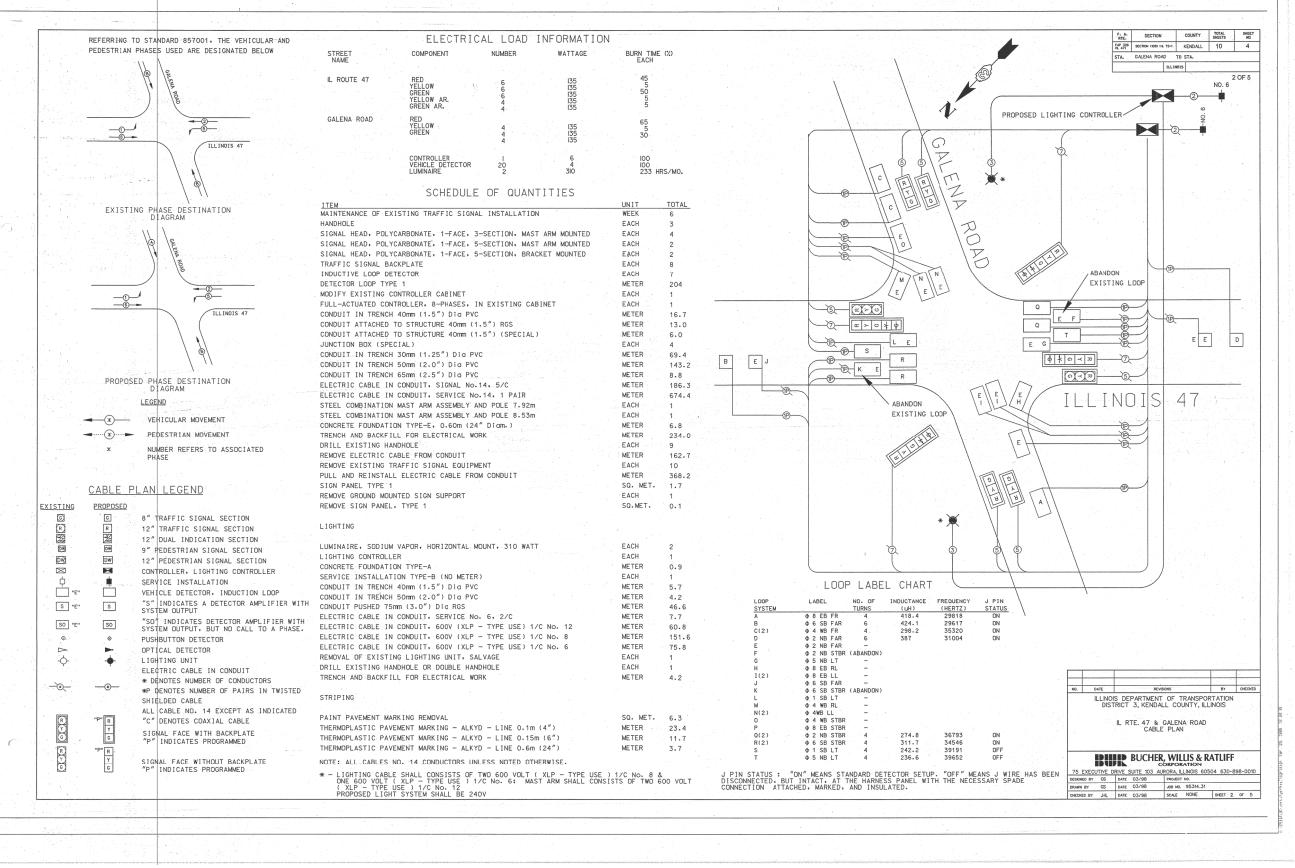
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:

SUMMARY OF QUANTITIES

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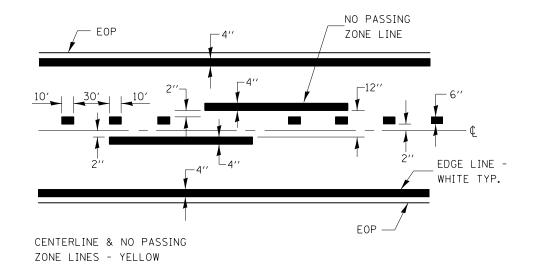
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STATE OF ILLINOIS
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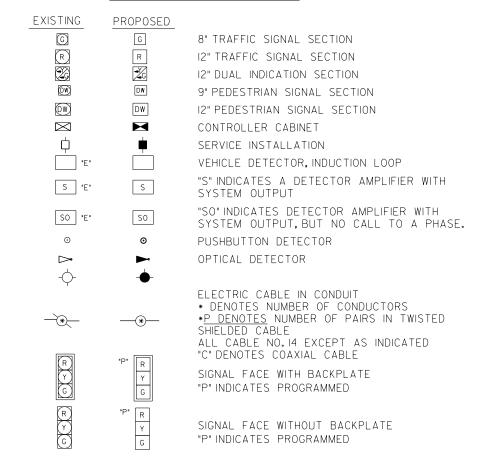
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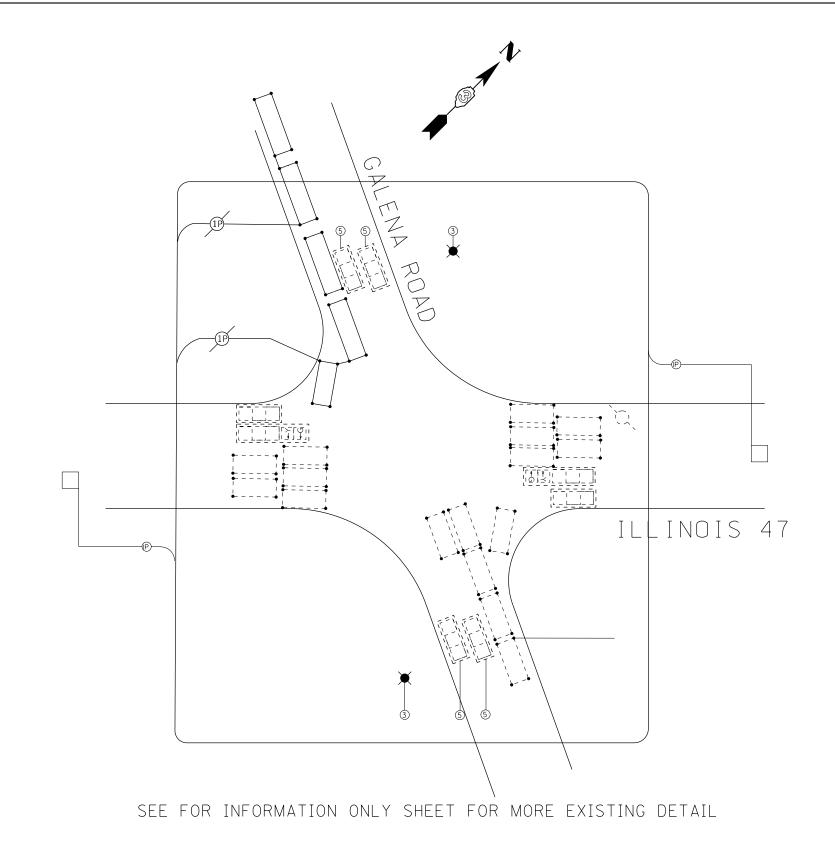
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CABLE PLAN SHEET		326 (108)MRK		KENDALL	9	6
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PAVEMENT MARKING

CABLE PLAN LEGEND





SHEET

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PLOT DATE = 7/11/2017	DATE -	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
 DETAIL SHEET
 F.A. RTE.
 SECTION
 COUNTY SHEETS NO.
 TOTAL SHEETS NO.

 326
 (108)MRK
 KENDALL
 7
 7

 CONTRACT NO. 66H64

FILE NAME: \$FILEL\$