

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED HIGHWAY PLANS

FAP ROUTE 653 (IL 18)
SECTION (106)SFY
PROJECT HSIP-GDL3(629)
FLASHING BEACON INSTALLATION
LASALLE COUNTY

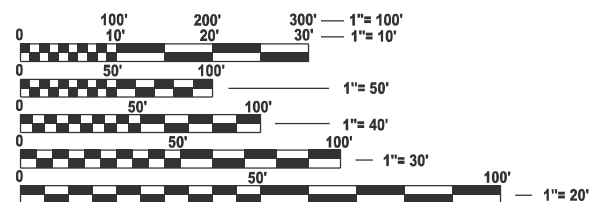
C-93-058-26



GROSS LENGTH = POINT LOCATION
NET LENGTH = POINT LOCATION

INDEX OF SHEETS

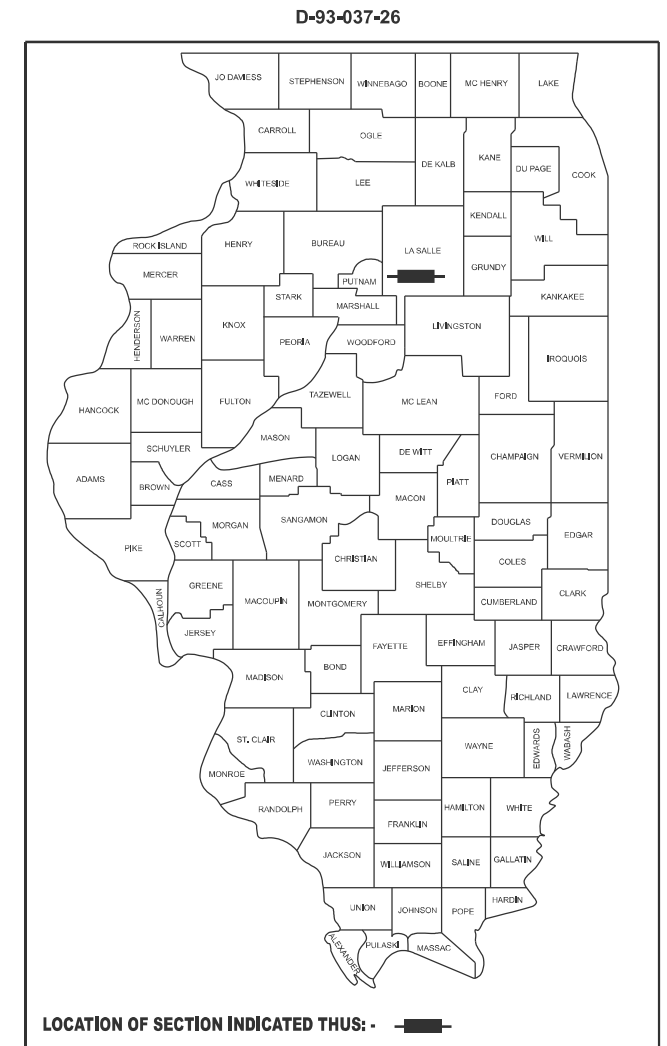
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**FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD
ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT
CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS
ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.**

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

PROJECT ENGINEER: NICK SPENCE, P.E.
UNIT CHIEF: CODY JOHNSON, P.E.
DISTRICT 3 NO. 815-434-6131
CONTRACT NO. 66T30



IL 18 - OTHER PRINCIPAL ARTERIAL
2025 AADT = 3650
P.V. = 89.2% S.U. = 4.7% M.U. = 6.1%

E 15TH RD - MAJOR COLLECTOR
2025 AADT = 950
P.V. = 90.4% S.U. = 5.5% M.U. = 4.1%

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED May 12, 2026
Trisha Thompson ^{ms} REGIONAL ENGINEER
June 26, 2026
Scott Etkin
ENGINEER OF DESIGN AND ENVIRONMENT
June 26, 2026
Chadley 5
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS**

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LIST OF ILLINOIS DOT HIGHWAY STANDARDS

000001-09	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
701001-02	OFF-ROAD OPERATIONS 2L, 2W, MORE THAN 15' AWAY
701006-05	OFF-ROAD OPERATIONS 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701201-05	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
701901-11	TRAFFIC CONTROL DEVICES
782001-01	CURB REFLECTORS
805001-01	ELECTRICAL SERVICE INSTALLATION DETAILS
814001-03	HANDHOLES
873001-02	TRAFFIC SIGNAL GROUNDING & BONDING
880001-01	SPAN WIRE MOUNTED SIGNALS AND FLASHING BEACON INSTALLATION

GENERAL NOTES

THE TRAFFIC SIGNAL SECTION AT THE ILLINOIS DEPARTMENT OF TRANSPORTATION, DISTRICT 3, SHALL BE NOTIFIED BY THE CONTRACTOR AT 815-434-8506 AT LEAST 72 HOURS PRIOR TO TURNING ON ANY FLASHER OR CONTROLLER UNITS.

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 THE CONDUIT PAY ITEM.

THE CONTRACTOR SHALL ARRANGE FOR A FACTORY OR SUPPLIER REPRESENTATIVE TO BE PRESENT AT THE INTERSECTION WHEN THE FLASHERS ARE TURNED ON. COST TO BE INCLUDED WITH THE FLASHER CONTROLLER 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.

ALL UTILITIES CROSSING UNDER DITCHES AND RAILROAD TRACKAGE USING HORIZONTAL DIRECTIONAL DRILLING (HDD) INSTALLATION SHOULD HAVE A MINIMUM DEPTH OF COVER OF SIX (6) FEET BELOW THE FLOWLINE OF THE DITCH OR GROUND SURFACE AND TWELVE (12) FEET FROM BASE OF RAIL IN FILL SECTIONS, THE NATURAL GROUND LINE AT THE TOE OF SLOPE WILL BE CONSIDERED AS DITCH GRADE.

THE ELECTRICAL CONDUCTORS FOR ALL FLASHERS SHALL BE SOLID, SOFT COPPER

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.

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

ALL VEHICLE AND PEDESTRIAN SIGNAL HEADS SHALL HAVE POLYCARBONATE HOUSING AND METAL BRACKETS.

THE NEW SERVICE ELECTRICAL BILL SHALL INCLUDE THE ROADWAY LOCATION AND FLASHER DESIGNATION: IL 18 & E 15TH RD, LOC 85F

THE SURGE PROTECTOR IN THE CONTROLLER CABINET SHALL HAVE AN INDICATOR LIGHT.

MEMBERS OF JULIE KNOWN TO BE WITHIN THE LIMITS OF THE IMPROVEMENT ARE:

- COMED
- FRONTIER
- IL AMERICAN WATER
- LASALLE COUNTY HIGHWAY DEPT.
- MARSEILLES TELEPHONE CO.
- METRO COMMUNICATIONS
- NICOR

NON-MEMBERS OF JULIE KNOWN TO BE WITHIN THE LIMITS OF THE IMPROVEMENT ARE:

- NO KNOWN NON-MEMBERS OF JULIE

	USER NAME = Cody.M.Johnson	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -					653	(106)SFY	LASALLE	11	2
		CHECKED -	REVISED -					CONTRACT NO. 66T30				
	PLOT DATE = 5/8/2026	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	ILLINOIS FED. AD PROJ EC T	

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				90% FED 10% STATE
				SAFETY
				0021 RURAL
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	52	52
60603900	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (ABUTTING EXISTING PAVEMENT)	FOOT	52	52
60618300	CONCRETE MEDIAN SURFACE, 4 INCH	SQ FT	136	136
67100100	MOBILIZATION	L SUM	1	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1
73000100	WOOD SIGN SUPPORT	FOOT	52	52
* 78200020	CURB REFLECTORS	EACH	12	12
80500300	SERVICE INSTALLATION, TYPE C	EACH	1	1
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	271	271
81028350	UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	1433	1433
81100500	CONDUIT ATTACHED TO STRUCTURE, 1 1/2" DIA., GALVANIZED STEEL	FOOT	83	83
81400700	HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	8	8
85800100	FLASHER CONTROLLER	EACH	1	1
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1831	1831

	USER NAME = Cody.M.Johnson	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -					653	(106)SFY	LASALLE	11	3
		CHECKED -	REVISED -					CONTRACT NO. 66T30				
	PLOT DATE = 4/6/2026	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT	

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				90% FED 10% STATE
				SAFETY 0021
				RURAL
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	5	5
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1831	1831
88040030	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 1-SECTION, POST MOUNTED	EACH	5	5
X4402805	ISLAND REMOVAL	SQ FT	136	136
X8302125	WOOD POLE, 25 FT, CLASS 4	EACH	1	1

	USER NAME = Cody.M.Johnson	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -						653	(106)SFY	LASALLE	11	4
		CHECKED -	REVISED -						CONTRACT NO. 66T30				
	PLOT DATE = 4/6/2026	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		

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MAINLINE SCHEDULE								
NAME	UNIT	TOTAL	SW QUAD	SE QUAD	ROADWAY	NW QUAD	NE QUAD	NOTES
SERVICE INSTALLATION, TYPE C	EACH	1	0	0	0	1	0	
ISLAND REMOVAL	SQFT	136	0	0	136	0	0	
CONCRETE MEDIAN SURFACE, 4 INCH	SQFT	136	0	0	136	0	0	
COMBINATION CURB AND GUTTER REMOVAL	FOOT	52	0	0	52	0	0	
COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (ABUTTING EXISTING PAVEMENT)	FOOT	52	0	0	52	0	0	
CURB REFLECTORS	EACH	12	0	0	12	0	0	
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	271	0	0	271	0	0	
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	1433	666	705	6	36	20	
CONDUIT ATTACHED TO STRUCTURE, 1 1/2" DIA., GALVANIZED STEEL	FOOT	83	16	16	16	19	16	
HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	8	3	3	1	0	1	
FLASHER CONTROLLER	EACH	1	0	0	0	1	0	
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1831	699	739.5	298.5	54	40	
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	5	0	0	0	5	0	
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1831	699	739.5	298.5	54	40	
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 1-SECTION, POST MOUNTED	EACH	5	1	1	1	1	1	
WOOD SIGN SUPPORT	FOOT	52	9.5	11	11	11	9.5	
WOOD POLE, 25 FT, CLASS 4	EACH	1	0	0	0	1	0	

	USER NAME = Cody.M.Johnson	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULES			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -					653	(106)SFY	LASALLE	11	5
		CHECKED -	REVISED -					CONTRACT NO. 66T30				
	PLOT DATE = 4/20/2026	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	ILLINOIS	FED. AID PROJECT

UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.

UNDERGROUND CONDUIT, PVC, 2" DIA.

HANDHOLE, PORTLAND CEMENT CONCRETE

DOUBLE HANDHOLE, PORTLAND CEMENT CONCRETE

SIGN LOCATION

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		CHECKED	-	REVISED	-
PLOT DATE	= 4/20/2026	DATE	-	REVISED	-

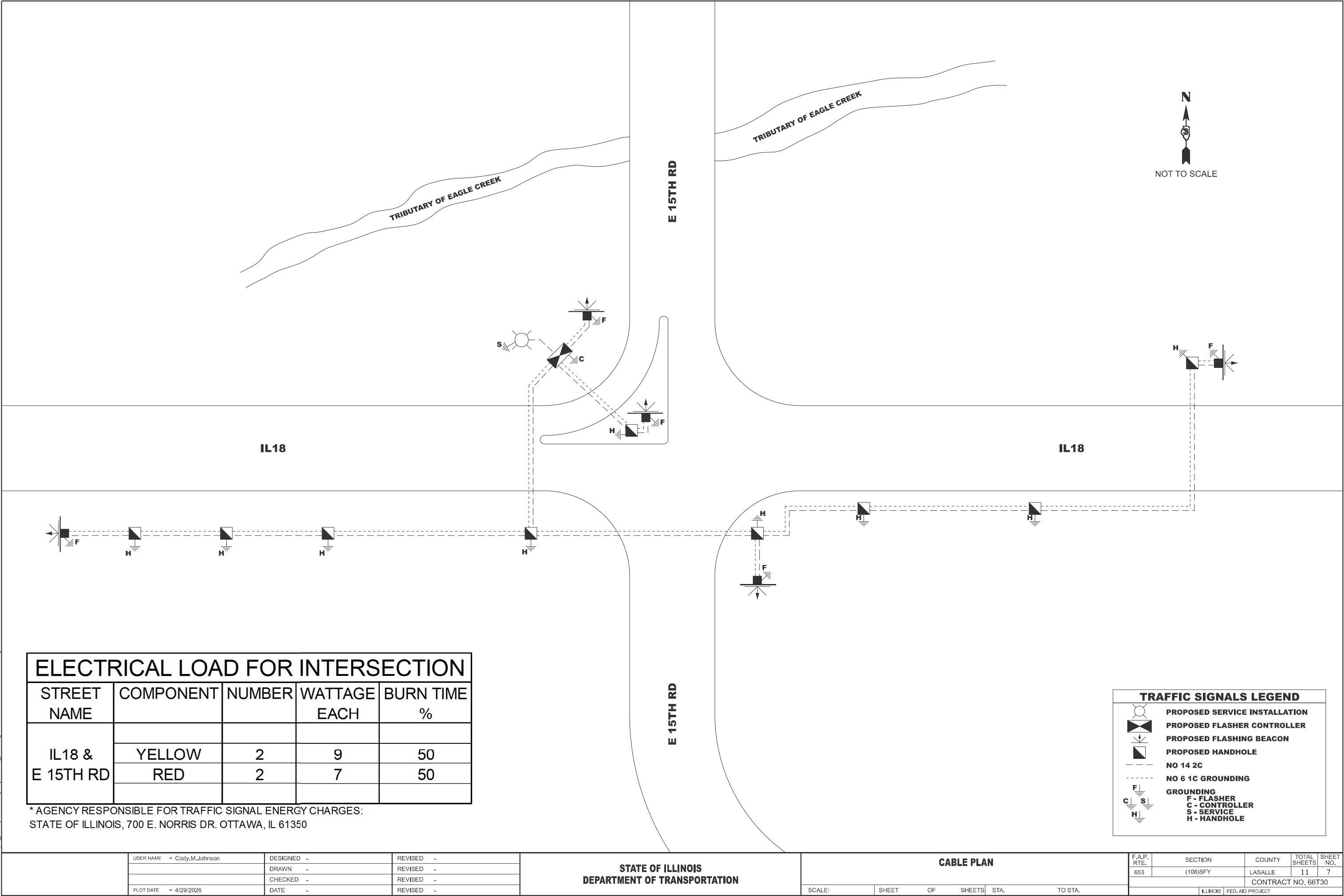
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN SHEETS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
653	(106)SFY	LASALLE	11	6
CONTRACT NO. 66T30				
ILLINOIS FED. AID PROJECT				

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ELECTRICAL LOAD FOR INTERSECTION				
STREET NAME	COMPONENT	NUMBER	WATTAGE EACH	BURN TIME %
IL18 & E 15TH RD	YELLOW	2	9	50
	RED	2	7	50

* AGENCY RESPONSIBLE FOR TRAFFIC SIGNAL ENERGY CHARGES:
STATE OF ILLINOIS, 700 E. NORRIS DR. OTTAWA, IL 61350

TRAFFIC SIGNALS LEGEND	
	PROPOSED SERVICE INSTALLATION
	PROPOSED FLASHER CONTROLLER
	PROPOSED FLASHING BEACON
	PROPOSED HANDHOLE
	NO 14 2C
	NO 6 1C GROUNDING
	GROUNDING
	F - FLASHER
	C - CONTROLLER
	S - SERVICE
	H - HANDHOLE

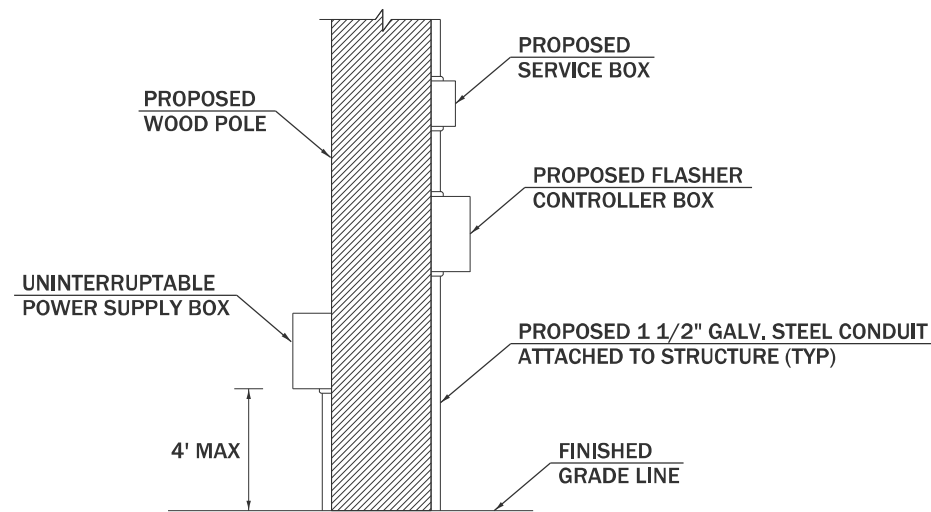
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	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 4/29/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN

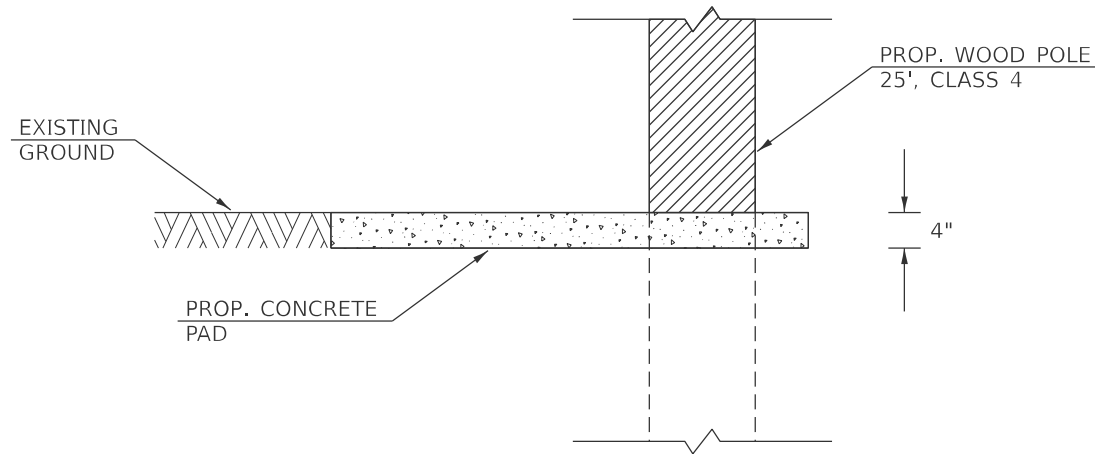
SCALE: SHEET OF SHEETS STA. TO STA.

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653	(106)SFY	LASALLE	11	7
CONTRACT NO. 66T30				
ILLINOIS FED. AID PROJECT				

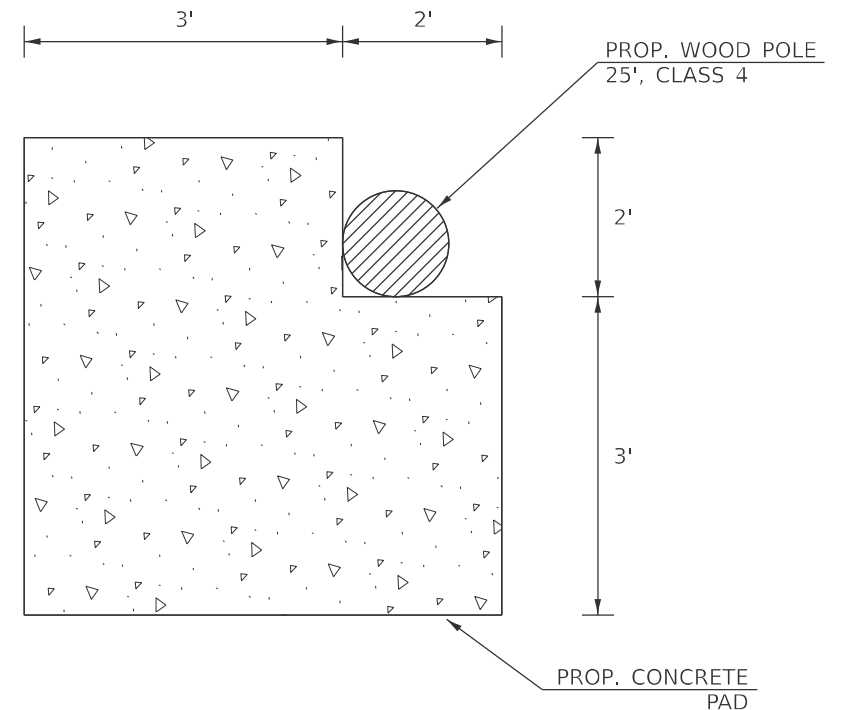


INTERSECTION CONTROLLER/SERVICE BOX INSTALLATION DETAIL (NTS)

NOTE: THE IDOT TRAFFIC SIGNAL SECTION SHALL BE CONTACTED AT 815-434-8506 BEFORE THE EQUIPMENT IS MOUNTED TO VERIFY AN ACCEPTABLE PLACEMENT AND ORIENTATION ON THE POLE

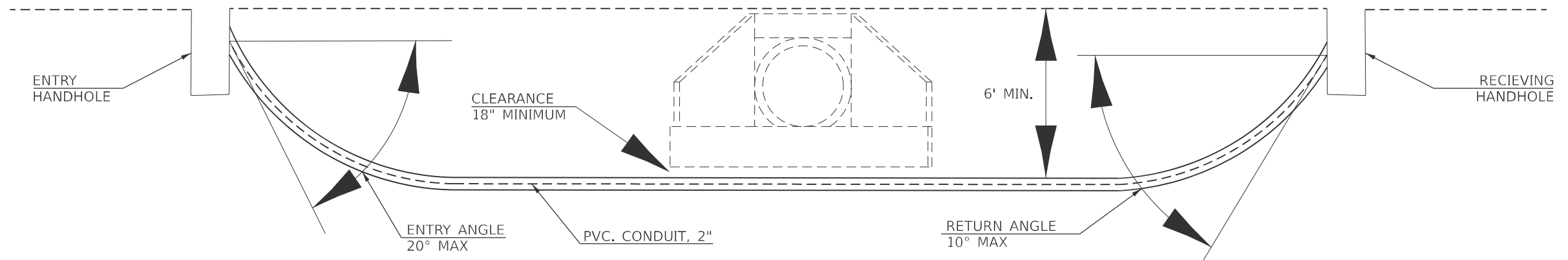


FRONT VIEW



TOP VIEW

WOOD POLE AND CONCRETE PAD LAYOUT



CONDUIT UNDER CULVERT

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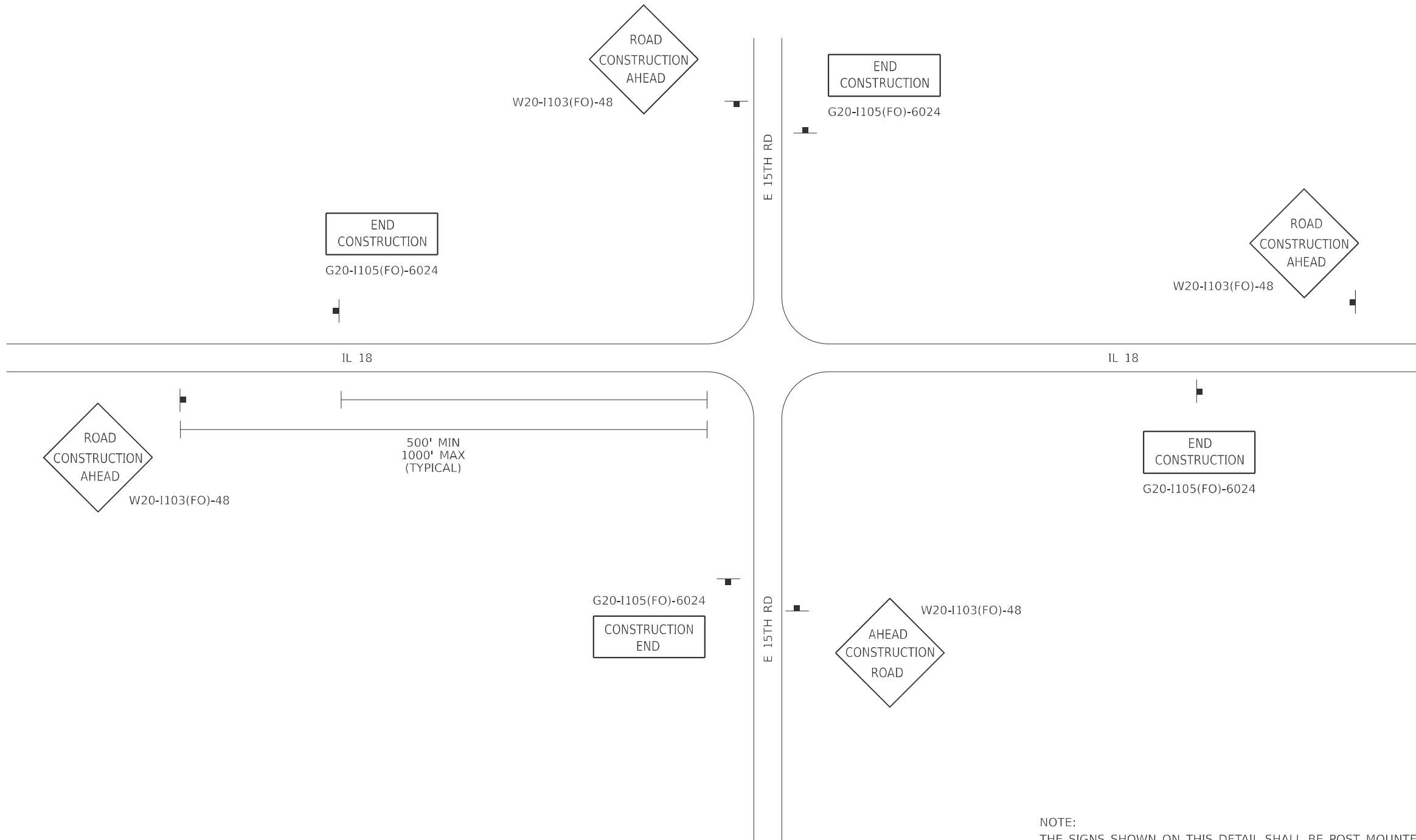
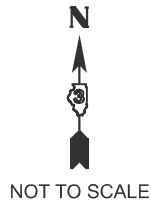
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	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 4/29/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAILS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
653	(106)SFY	LASALLE	11	8
CONTRACT NO. 66T30				
ILLINOIS FED. AID PROJECT				



NOTE:
THE SIGNS SHOWN ON THIS DETAIL SHALL BE POST MOUNTED
AND THE PLACEMENT OF SIGNS SHALL BE CONSIDERED INCIDENTAL
TO TRAFFIC CONTROL AND PROTECTION STANDARD 701306

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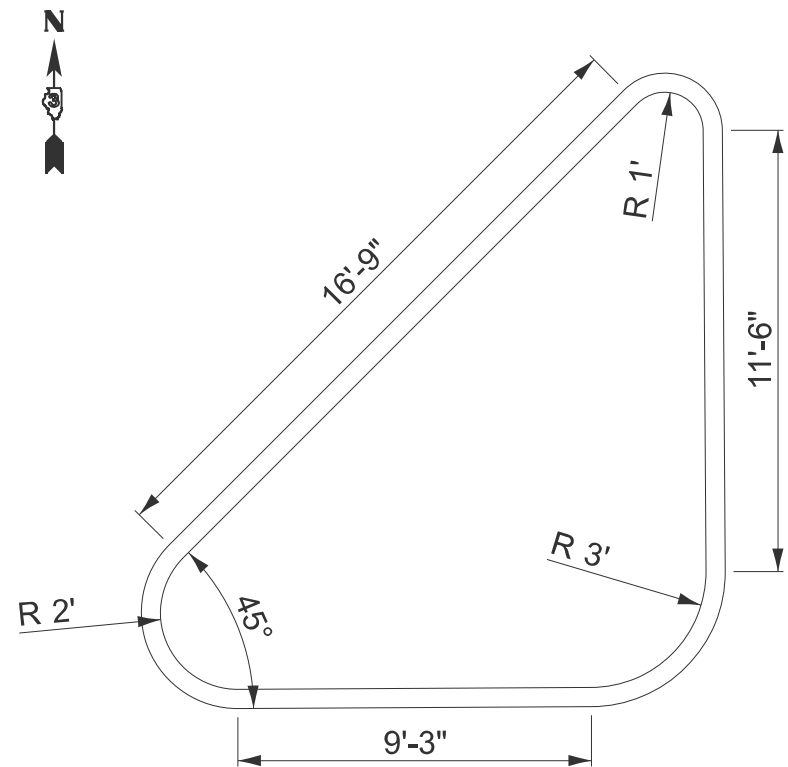
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	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 4/29/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

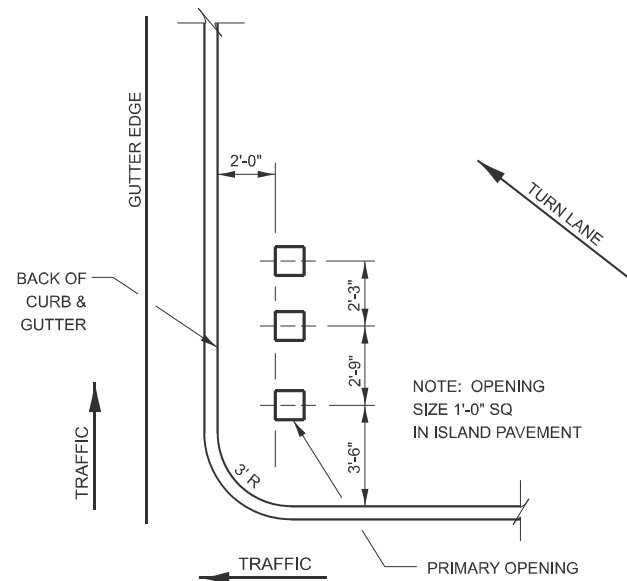
DETAILS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
653	(106)SFY	LASALLE	11	9
CONTRACT NO. 66T30				
ILLINOIS FED. AID PROJECT				



EXISTING ISLAND DIMENSIONS (FOR RECONSTRUCTION)



ISLAND SIGN POST SPACING DETAIL

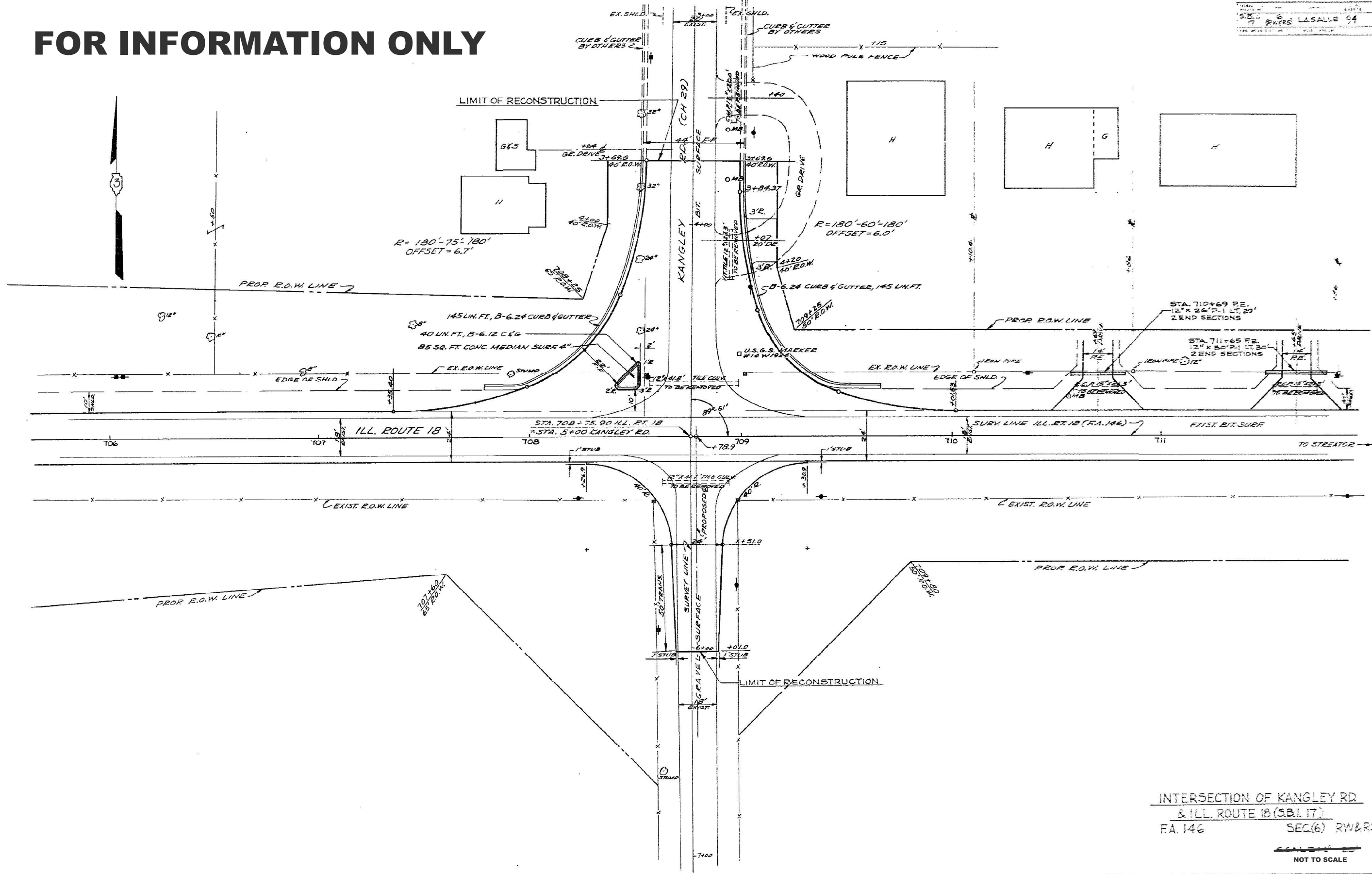
NOTE: THE ENGINEER SHALL DETERMINE THE NUMBER OF OPENINGS REQUIRED.

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	USER NAME = Cody.M.Johnson	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETAILS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -					653	(106)SFY	LASALLE	11	10
		CHECKED -	REVISED -					CONTRACT NO. 66T30				
	PLOT DATE = 4/29/2026	DATE -	REVISED -		SCALE:	SHEET	OF SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		

FOR INFORMATION ONLY

SEAL 6 LASALLE 04 30
17 RIVERS



INTERSECTION OF KANGLEY RD
& ILL. ROUTE 18 (S.B. 17)
FA. 146 SEC(6) RW&RS

NOT TO SCALE

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USER NAME = Cody.M.Johnson	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 4/29/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAILS
OLD INTERSECTION PLAN (F.I.O.)

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
653	(106)SFY	LASALLE	11	11
CONTRACT NO. 66T30				
ILLINOIS FED. AID PROJECT				