09-16-2016 LETTING ITEM 033

INDEX OF SHEETS

SEE SHEET NO. 2

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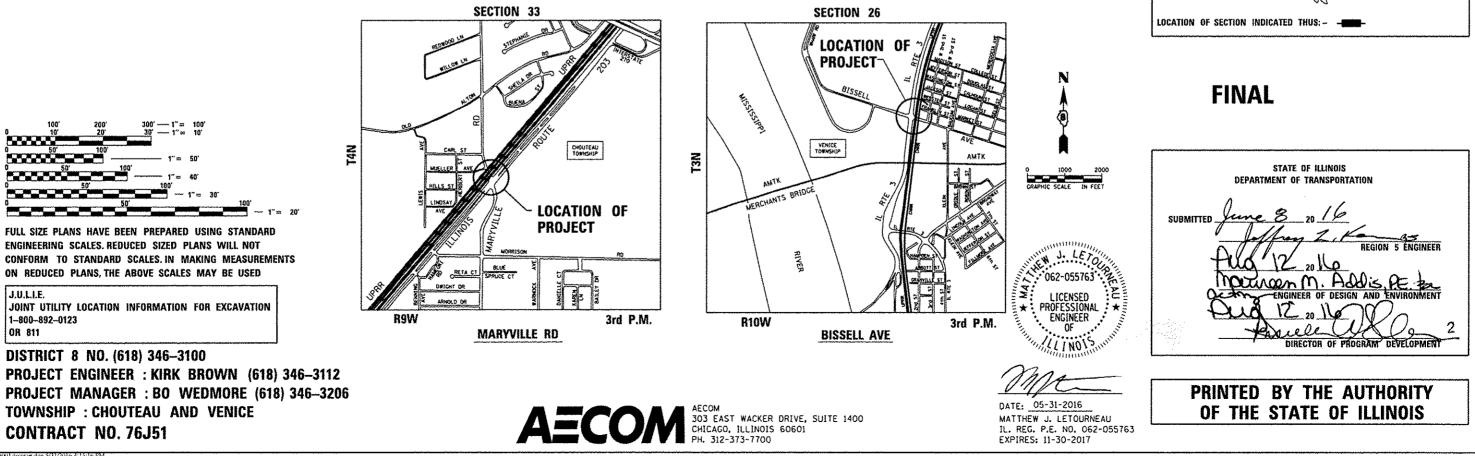
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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS PROPOSED **HIGHWAY PLANS**

FAP ROUTE 594 / FAP ROUTE 2 (ILLINOIS ROUTE 203 / ILLINOIS ROUTE 3) SECTION X-3-RR-HSR, 104-RR-HSR **MADISON COUNTY**

PROJECT: HSR-DOOV (081)

C-98-026-16

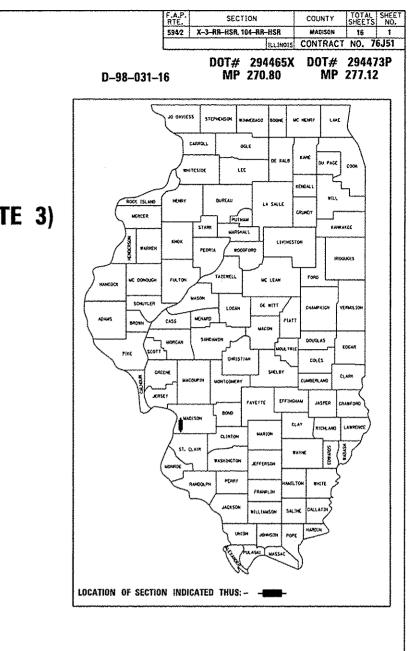


CONTRACT NO. 76J51

J.U.L.I.E.

OR 811

1-800-892-0123



INDEX OF SHEETS

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HIGHWAY STANDARDS

- 000001-06 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 701101-05 OFF-ROAD OPERATIONS, MULTILANE, 15 FT (4.5 M) TO 24 IN (600 MM) FROM PAVEMENT EDGE
- 701106-02 OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15 FT (4.5 M) AWAY
- LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATIONS, FOR 701426-08 SPEEDS >= 45 MPH
- TRAFFIC CONTROL DEVICES 701901-05
- SIGN PANEL MOUNTING DETAILS 720001-01
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- 814001-03 HANDHOLES
- 814006-02 DOUBLE HANDHOLES
- 857006-01 SUPERVISED RAILROAD INTERCONNECT CIRCUIT
- 862001-01 UNINTERRUPTABLE POWER SUPPLY (UPS)
- 873001-02 TRAFFIC SIGNAL GROUNDING & BONDING

DISTRICT DETAILS

TC-10 TRAFFIC CONTROL & PROTECTION FOR SIDE ROADS

TC-22 ARTERIAL ROAD INFORMATION SIGN

COMMITMENTS

NONE: MAY 31. 2016

GENERAL NOTES

- 1. NO WORK SHALL COMMENCE UNTIL THE PROPOSED TRAFFIC CONTROL IS IN PLACE AND HAS REEN APPROVED BY THE ENGINEER.
- 2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING MATERIALS.
- 3. FOR STABILIZATION, ALL TYPE III BARRICADES SHALL REQUIRE A MINIMUM OF FOUR SAND BAGS PER BARRICADE.
- 4. 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 ANS AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE UNDERGROUND CONDUIT.
- 5. ANY REFERENCE TO A HIGHWAY STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE REVISION NUMBER SHOWN IN THE LIST OF HIGHWAY STANDARDS OR THE COPY INCLUDED IN THESE PLANS.
- 6. THE SCALE SHOWN ON THE DRAWINGS APPLIES ONLY TO FULL SIZE PLANS AND NOT TO THE REDUCED SIZE PLANS. REDUCED SIZE PLANS CAN BE PRINTED TO SCALE FOR USE IN THE FIELO.
- 7. NS RAILROAD (AT MARYVILLE RD) AND UP RAILROAD (AT BISSELL AVE) FLAGGERS SHALL BE PRESENT WHEN WORKING WITHIN 25' OF THE RAILROAD TRACKS. THE CONTRACTOR SHALL COORDINATE DIRECTLY WITH NS OR THE UP RAILROAD TO ASSURE FLAGGERS ARE PRESENT DURING CONSTRUCTION. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- 8. BENCHMARKS FOR THE PROJECT ARE DESCRIBED IN THE PLANS AND ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88). ALL BEARINGS AND COORDINATES REFERENCED IN THE PLAN DRAWINGS AND ALL CONTROL COORDINATES ARE BASED ON THE ILLINOIS STATE PLANE COORDINATE SYSTEM, WEST ZONE, NAD 83 (2011).
- EXISTING UTILITIES ARE SHOWN ON THE PLANS ACCORDING TO INFORMATION OBTAINED FROM 9. THE LOCAL AGENCIES, OWNERS, AND FIELD SURVEYS. THE ACCURACY AND COMPLETENESS OF SAID INFORMATION IS NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE EXISTENCE. NATURE AND EXACT LOCATIONS OF ALL UTILITY LINES AND APPURTENANCES WITHIN THE LIMITS OF IMPROVEMENTS.
- 10. ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE BE GIVEN TO ALL UTILITIES WITHIN THE PROJECT AREA BEFORE DIGGING. FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING J.U.L.I.E. OR FOR NON-MEMBERS, THE UTILITY COMPANY DIRECTLY, AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS:

MARYVILLE RD

NON-J.U.L.I.E.

UNION PACIFIC RAILROAD COMPANY UNION PACIFIC RAILROAD COMPANY (NEW FIBER OPTIC LINE)

J.U.L.I.E.

LEVEL 3 COMMUNICATIONS SPRINT AMEREN ILLINOIS AT&T - DISTRIBUTION ZAYO/FNA 360 NETWORKS CHARTER COMMUNICATIONS STATE OF ILLINOIS - CMS MITCHELL PUBLIC WATER DISTRIBUTION CITY OF GRANITE CITY MADISON COUNTY SANITARY

BISSELL AVE

NON-J.U.L.I.E.

UNION PACIFIC RAILROAD COMPANY UNION PACIFIC RAILROAD COMPANY (NEW FIBER OPTIC LINE)

J.U.L.I.E.

LEVEL 3 COMMUNICATIONS SPRINT AMEREN ILLINOIS AT&T - DISTRIBUTION AT&T - TRANSMISSION ZAYO/FNA 360 NETWORKS CHARTER COMMUNICATIONS CENTURY LINK CITY OF MADISON ENABLE MISSISSIPPI RIVER TRANSMISSION TRI-CITY REGIONAL PORT DISTRIBUTION AMERICAN WATER - GRANITE CITY DE REGULATED



DESIGNED - KMO REVISED -INDEX OF SHEETS, HIGHWAY STAND DRAWN - SRS REVISED STATE OF ILLINOIS COMMITMENTS AND GEI CHECKED - M.II REVISED DEPARTMENT OF TRANSPORTATION 05/31/16 DATE REVISED SCALE: NTS SHEET I OF I SHEETS

- WITHIN RAILROAD R.O.W.

11. MEMBERS OF J.U.L.I.E. CALL TOLL FREE (800) 892-0123 OR 811. NON-J.U.L.I.E. MEMBERS MUST BE NOTIFIED INDIVIDUALLY.

12. THE CONTRACTOR SHALL COORDINATE WITH THE NS RAILROAD (AT MARYVILLE RD) OR THE UP RAILROAD (AT BISSELL AVE) SIGNAL DEPARTMENT FOR ITEMS INSTALLED BY THE NS OR UP RAILROAD SIGNAL DEPARTMENT.

13. ALL FIELD TILE ENCOUNTERED SHALL BE CAREFULLY PRESERVED AND REPAIRED OR CONNECTED TO THE PROPOSED DRAINAGE STRUCTURES, SEWERS OR DITCHES AS DIRECTED BY THE ENGINEER, PAYMENT FOR THIS WORK SHALL BE IN ACCORDANCE WITH ARTLCLE 109.04.

14. THE CONTRACTOR SHALL COORDINATE WITH UPRR FOR RIGHT OF ENTRY PERTAINING TO WORK

15. THE RESIDENT ENGINEER SHALL VERIFY THE EXISTENCE OF HIGHWAY LIGHTING AND/OR INTELLIGENT TRANSPORTATION SYSTEMS (I.T.S.) UTILITIES WITHIN THE PROJECT LIMITS. IF HIGHWAY LIGHTING AND/OR I.T.S. EXISTS WITHIN THE PROJECT LIMITS. AND IF THESE ITEMS REQUIRE LOCATING, THE CONTRACTOR SHALL BE DIRECTED TO DO SO ACCORDING TO SECTION 803 OF THE STANDARD SPECIFICATIONS. THIS WORK SHALL BE PAID FOR ACCORDING TO ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS

16. THE DEPARTMENT STONGLY ENCOURAGES THE PRIME CONTRACTOR AND THEIR APPROVED SUBCONTRACTORS TO HIRE MINORITY, WOMEN AND DISADVANTAGED INDIVIDUALS FROM ITS FEDERALLY FUNDED HIGHWAY CONSTRUCTION CAREERS TRAINING PROGRAM (HCCTP) TO HELP MEET WORKFORCE AND TRAINEE GOALS. THIS PROGRAM IS TRAINING MINORITIES, WOMEN AND DISADVANTAGED INDIVIDUALS IN HIGHWAY CONSTRUCTION-RELATED SKILLS, E.G., MATH FOR THE TRADES, JOB READINESS, TECHNICAL SKILLS COURSE WORK (CARPENTRY, CONCRETE FLATWORK, BLUEPRINT READING, SITE PLANS, SITE WORK, TOOLS USE, ETC.) AND OSHA 10 HOUR CERTIFICATION, TO PREPARE THEM FOR A CAREER IN THE HIGHWAY CONSTRUCTION TRADES. GRADUATES ARE WELL-TRAINED AND READY TO BECOME PRODUCTIVE ENTRY-LEVEL CONSTRUCTION WORKERS, CONTACT THE DISTRICT 8 EEO OFFICE AT 618-346-3360 AND/OR THE HCCTP COORDINATOR AT 618-874-6528 TO LEARN MORE ABOUT THE PROGRAM AND FOR ASSISTANCE IN MEETING WORKFORCE AND TRAINEE GOALS,

17. NORFOLK SOUTHERN DOT " IS 480324A.

DARDS, DISTRICT	DETAILS,	F.A.P. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
NERAL NOTES		594/2	X-3-RR-HSR, 104-RR-HSR	MADISON	16	2
NELIME WOILD				CONTRACT	NO. 7	6J51
STA.	TO STA.		ILLINOIS FED. AI	D PROJECT		

				FAP594 CONSTRUCT	FAP 2]
				MARYVILLE RD	BISSELL AVE	
	SUMMARY OF QUANTITIES			CROSSING NO. 294465X	CROSSING NO. 294473P	
				SIGNAL	SIGNAL	
<u></u>				100% HSR (FED.)	100%. HSR (FED.)	
CODE			TOTAL	URBAN	URBAN	
N0.	ITEM	UNIT	QUANTITY	0021	0021	
				-		-
66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	20	10	10	-
66900450	SPECIAL WASTE PLANS AND REPORTS	L SUM	1	0.5	0.5	
					0.5	
66900530	SOIL DISPOSAL ANALYSIS	EACH	1	0.5	0. 5	
67100100	MOBILIZATION	L SUM	1	0.5	0.5	
	MODILIZATION		L	0.5	0.5	
72000100	SIGN PANEL - TYPE 1	SO FT	56	24	32	
73000100	WOOD SIGN SUPPORT	FOOT	60	30	30	
78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	244	122	122	
78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	796	565	231	
78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	2202	1173	1029	
78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	93	44	49	
78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	182	82	100	
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FODT	104	· · · · · · · · · · · · · · · · · · ·	104	
81028350	UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	339	164	175	
			· ·			
81400100	HANDHOLE	EACH	1		1	
	USER NAME = #USER# DESIGNED - KMO REVISED -	l			· · · · · · · · · · · · · · · · · · ·	+ Specialty Items F.A.P. SECTION COUNTY SHEE
	DRAWN - KMO REVISED - PLOT SCALE * *SCALE * CHECKED - MUL REVISED -		STATE OF ILLIN		SUMMARY OF QUANTITIES	594/2 X-3-RR-HSR, 104-RR-HSR MADISON 16 CONTRACT NO.

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2		PLOT DATE + NOATER	DATE	-	05/31/16	REVISED	-	
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SUMMARY OF QUANTITIES CODE NO.

CROSSING NO. 294465X

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0005				100% HSR (FED.)
CODE NO.	ITEM	I IN I T		URBAN
		UNIT	QUANTITY	0021
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	2	1
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	453	453
87301750	ELECTRIC CABLE IN CONDUIT, RAILROAD, NO. 14 3C	EACH	611	296
87900200	DRILL EXISTING HANDHOLE	EACH	5	4
			-	
88030070	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	1	1
88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	e cod	1
89100400	ILLUMINATED SIGN, LED	EACH	4	2

89502215	MODIFY EXISTING CONTROLLER FOUNDATION	EACH	2	
89502300	REMOVE EXISTING ELECTRIC CABLE FROM CONDUIT	FOOT	598	
X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SO FT	971	
X1400144	UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL	EACH	2	

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X8950105	REMOVE EXISTING TRAFFIC CONTROLLER AND CABINET	EACH
20013798	CONSTRUCTION LAYOUT	L SUM
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM

X8571215 | RAILROAD, FULL ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL

USER NAME = +USER+ DESIGNED - KMO DRAWN - KMO PLOT SCALE + +SCALE+ CHECKED - MJL PLOT BATE + BOATER DATE - 05/31/16

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STATE OF ILLINOIS SUMMARY OF QUANTI DEPARTMENT OF TRANSPORTATION SCALE: NONE SHEET 2 OF 2 SHEETS STA

FAP594

MARYVILLE RD

SIGNAL

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CONSTRUCTION CODE

BISSELL AVE CROSSING NO. 294473P SIGNAL 1000, HSR/AZO.) UMBAN 0021 1 315 1 2 1 302 94 1 1 0.5	······	<u> </u>		 	······	
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TRAFFIC SIGNAL GENERAL NOTES

- 1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION.
- 2. THE EXACT LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE ORDERING ANY MATERIALS AND STARTING ANY WORK. FOR LOCATIONS OF UTILITIES, LOCALLY OWNED EQUIPMENT, AND IDOT UNDERGROUND FACILITIES, CONTACT THE LOCAL COUNTIES, MUNICIPALITIES AND IDOT FOR LOCATES. THE CONTRACTOR SHALL CALL 'JULIE' AT (800) 892-0123.
- 3. THE CONTRACTOR SHALL CALL THE UNION PACIFIC (UPRR) "CALL BEFORE YOU DIG" OPERATION AT 1-800-336-9193 FOR FIELD LOCATIONS OF UNION PACIFIC OWNED BURIED FIBER OPTIC CABLES IN UNION PACIFIC RIGHT OF WAY. THE CONTRACTOR SHALL ALSO CONTACT THE NORFOLK SOUTHERN RAILWAY AT 1-478-832-0958 (JOEL VAN AKKEREN, C&S SUPERVISOR). JOEL.VANAKKEREN@NSCORP.COM
- THE CONTRACTOR SHALL COORDINATE WITH NORFOLK SOUTHERN (NS) RAILROAD BEFORE STARTING ANY WORK ON NS PROPERTY. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND FOLLOWING CURRENT SPECIFICATIONS FOR PIPELINE OCCUPANCY OF NORFOLK SOUTHERN CORPORATION PROPERTY. (NS DOT #480324A)
- 5. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH GATEWAY EASTERN RAILWAY, A SUBSIDIARY OF KANSAS CITY SOUTHERN RAILWAY, AS NECESSARY.
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, LOCAL GOVERNMENT AGENCIES, IDOT, UPRR, NS RAILWAY, AND GATEWAY EASTERN RAILWAY.
- 7. COORDINATE ALL WORK WITH THE RAILROAD FORCES. SEE SPECIAL PROVISION "RAILROAD COORDINATION AND FLAGGERS."
- 8. THE ILLINOIS DEPARTMENT OF TRANSPORTATION SHALL BE NOTIFIED AT LEAST 72 HOURS PRIOR TO THE REPLACING OF AND TURNING ON OF THE UPGRADED CONTROLLER UNIT.
- 9. THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF UNCOVERING OR HAND DIGGING AROUND UTILITIES, AS NECESSARY; COST TO BE INCLUDED WITH THE CONDUIT PAY ITEM.
- 10. THE CONTRACTOR SHALL PROVIDE A SELF-ADHERED PHASE DIAGRAM ON THE INSIDE OF THE CONTROLLER CABINET DOOR. 11. PROPOSED UNDERGROUND CONDUIT SHALL AVOID UNDERGROUND UTILITIES.
- 12. RAILROAD, FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL SHALL INCLUDE VEHICLE DETECTOR AMPS, REMOTE MONITORING. AND AN INTERSECTION MONITOR
- 13. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE EXISTING TRAFFIC SIGNAL INSTALLATION DURING THE WORK.

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR THE PICK UP OF ALL EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY AS PER THE SPECIAL PROVISION.

AGENCY: ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT 8

PLOT DATE = \$DATE\$

1 EACH CONTROLLER AND CABINET (COMPLETE)

NOTE: ALL TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE".

RESTORATION OF WORK AREA. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCLUDED WITH THE RELATED PAY ITEM SUCH AS MODIFY EXISTING CONTROLLER FOUNDATION, CONDUIT, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAYEMENT, 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.

STAGING OF RAILROAD INTERCONNECT WORK. THE EXISTING RAILROAD INTERCONNECT WILL BE MAINTAINED THROUGHOUT THE WORK UNTIL A NEW RAILROAD INTERCONNECT CABLE IS INSTALLED FROM THE NEW CONTROLLER TO THE RAILROAD BUNGALOW AS SHOWN.

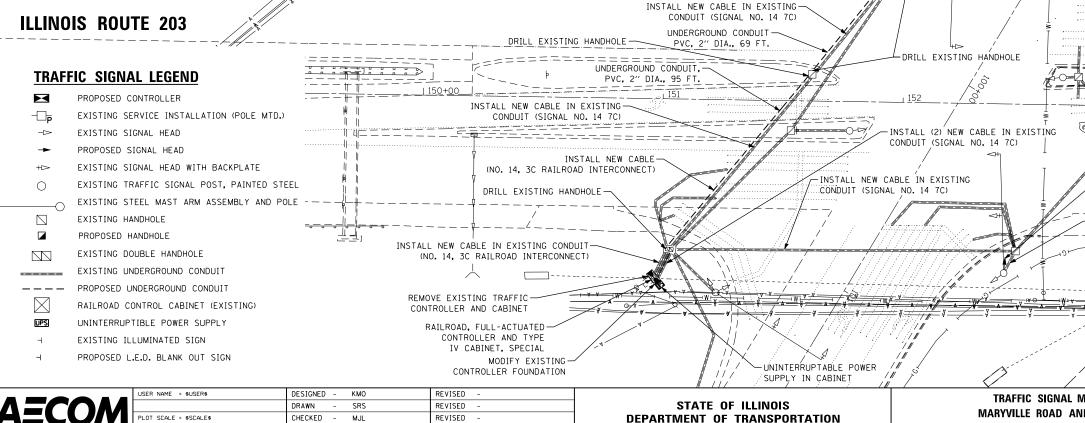
ANY DAMAGE DONE TO THE EXISTING SIGNAL ITEMS OR APPURTENANCES SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR, PER SECTION 895.02 OF THE STANDARD SPECIFICATIONS.

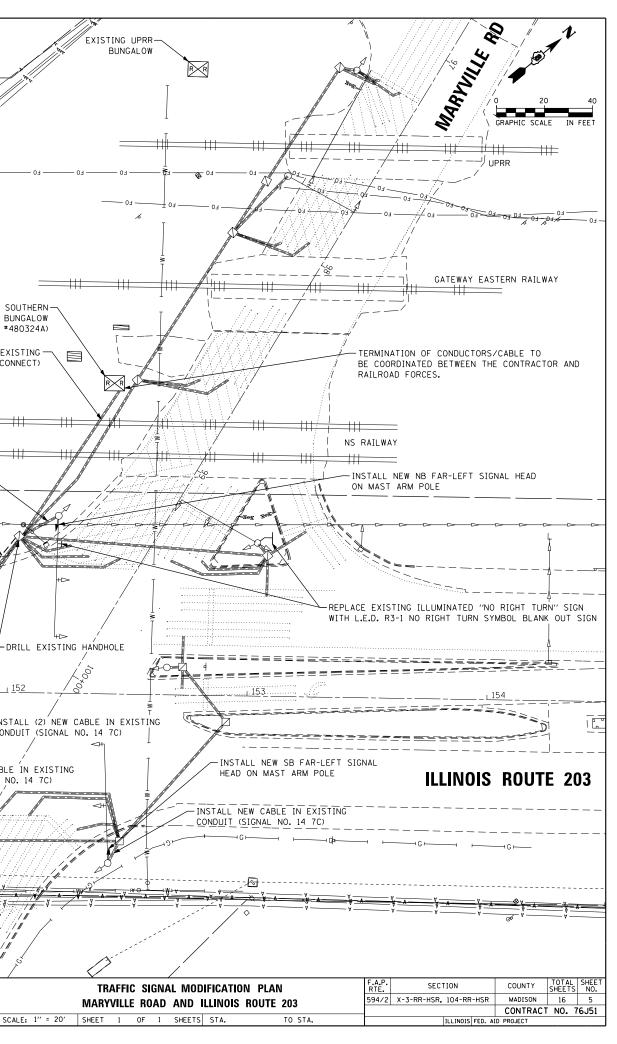
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05/31/16

REVISED

ILLINOIS ROUTE 203





EXISTING UPRR

EX RR ROW

EXISTING NORFOLK SOUTHERN-RAILROAD BUNGALOW

INSTALL NEW CABLE IN EXISTING -

CONDUIT (NO. 14 3C RAILROAD INTERCONNECT)

INSTALL NEW CABLE IN EXISTING-CONDUIT (SIGNAL NO. 14 7C)

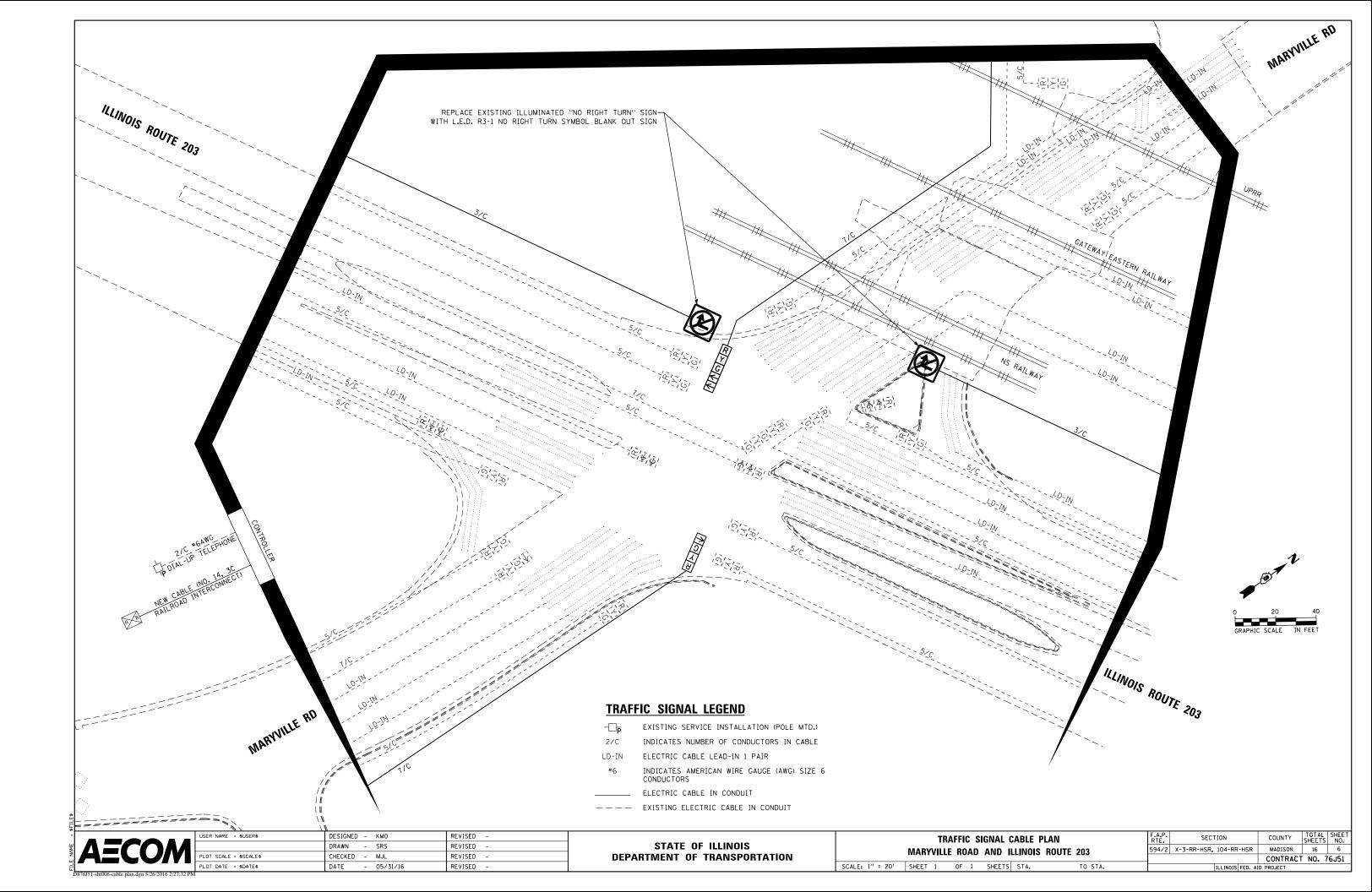
3C RAILROAD INTERCONNECT)

EX RR ROW INSTALL NEW CABLE (NO. 14,-

STORM SEWER TO BE AVOIDED-

(NS DOT #480324A)

BUNGALOW



SEQUENCE OF OPERATION

MOVEMENT					7 5 1)				25			6					2			3				A			OL	F L A S H
PHASE				1 + 5					2 + 5			1 + 6					2 +	6					3				4		
INTERVAL	1	2A	2B	3A	3B	44	4B	5	6A	6B	7	8A	8B	9	10A	10B	11A	11B	12A	12B	13	14A	14B	14C	14D	15	16A	16B	
CHANGE TO		2	+ 5	1 -	+ 6	2	+ 6		2 ·	+ 6		2 -	+ 6		2 +	- 5	1 -	+ 6	3, 1 ·	4, + 5			1 -	+ 5 + 5 + 6 + 6	1		1	+ 5 + 6 + 5 + 6	
ILLINOIS ROUTE 203 SW/B FAR LEFT AND LEFT POST MOUNTED SIGNALS	G	G	G	Y	R	Y	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
ILLINOIS ROUTE 203 SW/B LEFT AND RIGHT MAST ARM AND NEAR RIGHT SIGNALS	R	R	R	R	R	R	R	G	G	G	R	R	R	G	G	G	Y	R	Y	R	R	R	R	R	R	R	R	R	R
ILLINOIS ROUTE 203 NE/B FAR LEFT AND LEFT POST MOUNTED SIGNALS	G	Y	R	G	G	Y	R	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
ILLINOIS ROUTE 203 NE/B LEFT AND RIGHT MAST ARM AND NEAR RIGHT SIGNALS	R	R	R	R	R	R	R	R	R	R	G	G	G	G	Y	R	G	G	Y	R	R	R	R	R	R	R	R	R	R
MARYVILLE ROAD FAR LEFT AND LEFT MAST ARM SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G G	Y	R	R
MARYVILLE ROAD NW/B RIGHT MAST ARM AND NEAR RIGHT SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	R
MARYVILLE ROAD (PRE-SIGNAL) SE/B ALL SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	R	R	R	R	R	R
MARYVILLE ROAD (EAST OF TRACKS) SE/B FAR LEFT AND LEFT MAST ARM SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	↓°°	°°	G G G	Y	R	R	R	R	R
MARYVILLE ROAD (EAST OF TRACKS) SE/B RIGHT MAST ARM AND NEAR RIGHT SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	G	Y	R	R	R	R	R

PHASES 2 AND 6 SHALL BE PLACED ON RECALL.

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	USER NAME = \$USER\$	DESIGNED - MJL DRAWN - MJL	REVISED - REVISED -	STATE OF ILLINOIS		TRAFFIC SIGNAL SEQUENCE OF OPERATION MARYVILLE ROAD AND ILLINOIS ROUTE 203	F.A.P. RTE. SECTION COUNTY SHEETS TOTAL SHEETS SHEET NO. 594/2 X-3-RR-HSR, 104-RR-HSR MADISON 16 7
D876J51-sht007-seq.dgn 5/25/2016 12:39:13 PM	PLOT SCALE = \$SCALE\$ PLOT DATE = \$DATE\$	CHECKED - JAL DATE - 05/31/16	REVISED - REVISED -	DEPARTMENT OF TRANSPORTATION	SCALE: NTS	SHEET 1 OF 1 SHEETS STA. TO STA.	CONTRACT NO. 76J51

RAILROAD PREEMPTION SEQUENCE OF OPERATION

													PREEMPTOR NUMBER 2				
CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER		1		5		7		9	1	3	1	5					
RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1A	1B	1C	1D	1E	1F	1G	1H	1J	1K	1L	1M	2	3	4	5	CLE
CHANGE TO RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1B	2	1D	2	1F	2	1H	2	1K	2	1M	2	3	4	5	*	SEC
ILLINOIS ROUTE 203 FAR LEFT AND LEFT POST MOUNTED SIGNALS	¥	R	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	
ILLINOIS ROUTE 203 SW/B LEFT AND RIGHT MAST ARM AND NEAR RIGHT SIGNALS	R	R	Y	R	R	R	Y	R	R	R	R	R	R	R	R	G	
ILLINOIS ROUTE 203 NE/B FAR LEFT AND LEFT POST MOUNTED SIGNALS	Y	R	R	R	Y	R	R	R	R	R	R	R	R	R	R	R	
ILLINOIS ROUTE 203 NE/B LEFT AND RIGHT MAST ARM AND NEAR RIGHT SIGNALS	R	R	R	R	Y	R	Y	R	R	R	R	R	R	R	R	G	
MARYVILLE ROAD FAR LEFT AND LEFT MAST ARM SIGNALS	R	R	R	R	R	R	R	R	R	R	Y	R	R	R	R	R	
MARYVILLE ROAD RIGHT MAST ARM AND NEAR RIGHT SIGNALS	R	R	R	R	R	R	R	R	R	R	Y	R	R	R	R	R	
MARYVILLE ROAD (PRE-SIGNAL) SE/B ALL SIGNALS SE/B	R	R	R	R	R	R	R	R	Y	R	R	R	R	R	R	R	
MARYVILLE ROAD (EAST OF TRACKS) SE/B FAR LEFT AND LEFT MAST ARM SIGNALS	R	R	R	R	R	R	R	R	G ↓	G G	R	R	G G	Y	R	R	
MARYVILLE ROAD (EAST OF TRACKS) SE/B RIGHT MAST ARM AND NEAR RIGHT SIGNALS	R	R	R	R	R	R	R	R	G	G	R	R	G	Y	R	R	
INTERNALLY ILLUMINATED NO RIGHT TURN SIGNS	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT									
																HOLD	

* THE RAILROAD PREEMPTION SEQUENCE SHALL BE CAPABLE OF CYCLING BETWEEN PHASES 4, 2+5, AND 2+6 UNTIL PREEMPTION IS TERMINATED.

NOTES:

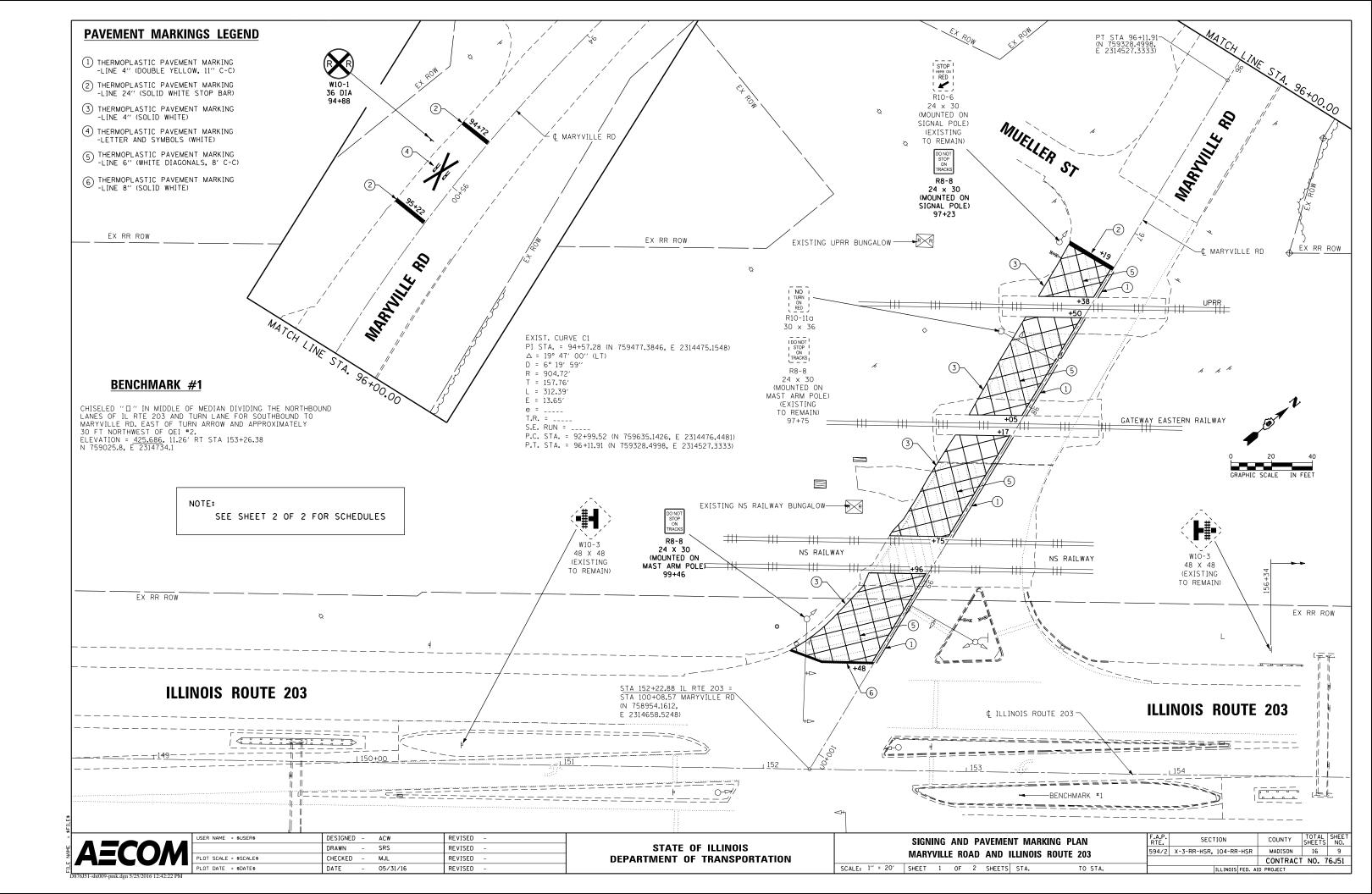
1. ONCE PREEMPTION HAS BEEN CALLED, THE TRACK CLEAR SIGNAL DISPLAY SHALL APPEAR IMMEDIATELY AFTER ALL NECESSARY VEHICULAR CLEARANCES HAVE BEEN PROVIDED.

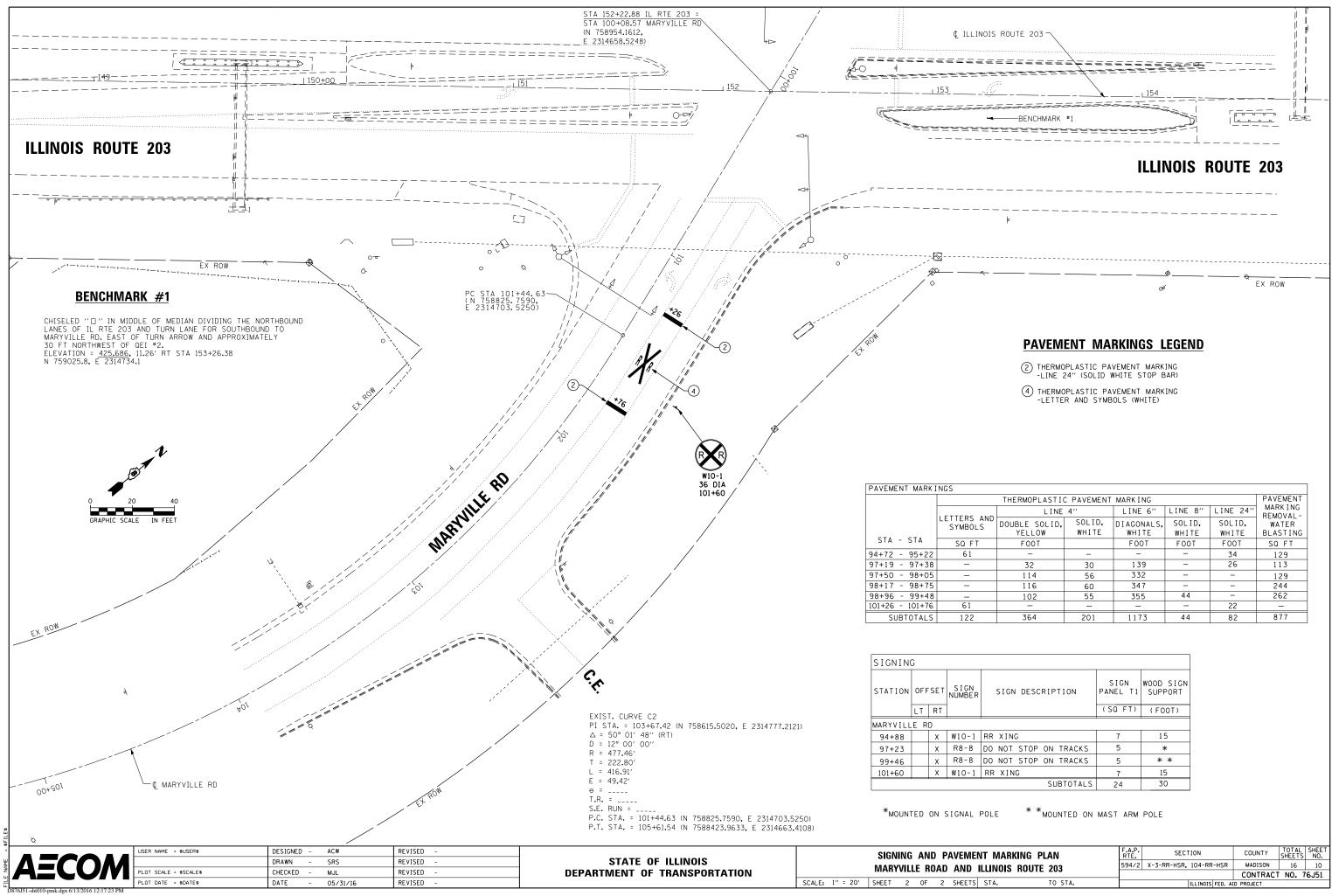
2. THE RAILROAD PREEMPTION SEQUENCE OF OPERATION SHALL HAVE PRIORITY OVER ALL OTHER SEQUENCES OF OPERATION.

 Δ railroad preemption sequence shall provide the proper clearance interval to resume the normal sequence of operation after railroad interval 5 is terminated.

" Lu		DESIGNED – MJL DRAWN – MJL	REVISED -	STATE OF ILLINOIS	RAILROAD PREEMPTION SEQUENCE OF OPERATION	F.A.P. SECTION	COUNTY TOTAL SHEET SHEETS NO.
E NAM	AECOM PLOT SCALE = \$SCALE\$	CHECKED - JAL	REVISED -	DEPARTMENT OF TRANSPORTATION	MARYVILLE ROAD AND ILLINOIS ROUTE 203	594/2 X-3-RR-HSR, 104-RR-HSR	MADISON 16 8 CONTRACT NO. 76J51
	PLOT DATE = \$DATE\$	DATE - 5/31/16	REVISED -		SCALE: NTS SHEET 1 OF 1 SHEETS STA. TO STA.	ILLINOIS FED. AI	ID PROJECT
	J51-sht008-rrseq.dgn 5/25/2016 12:40:43 PM						

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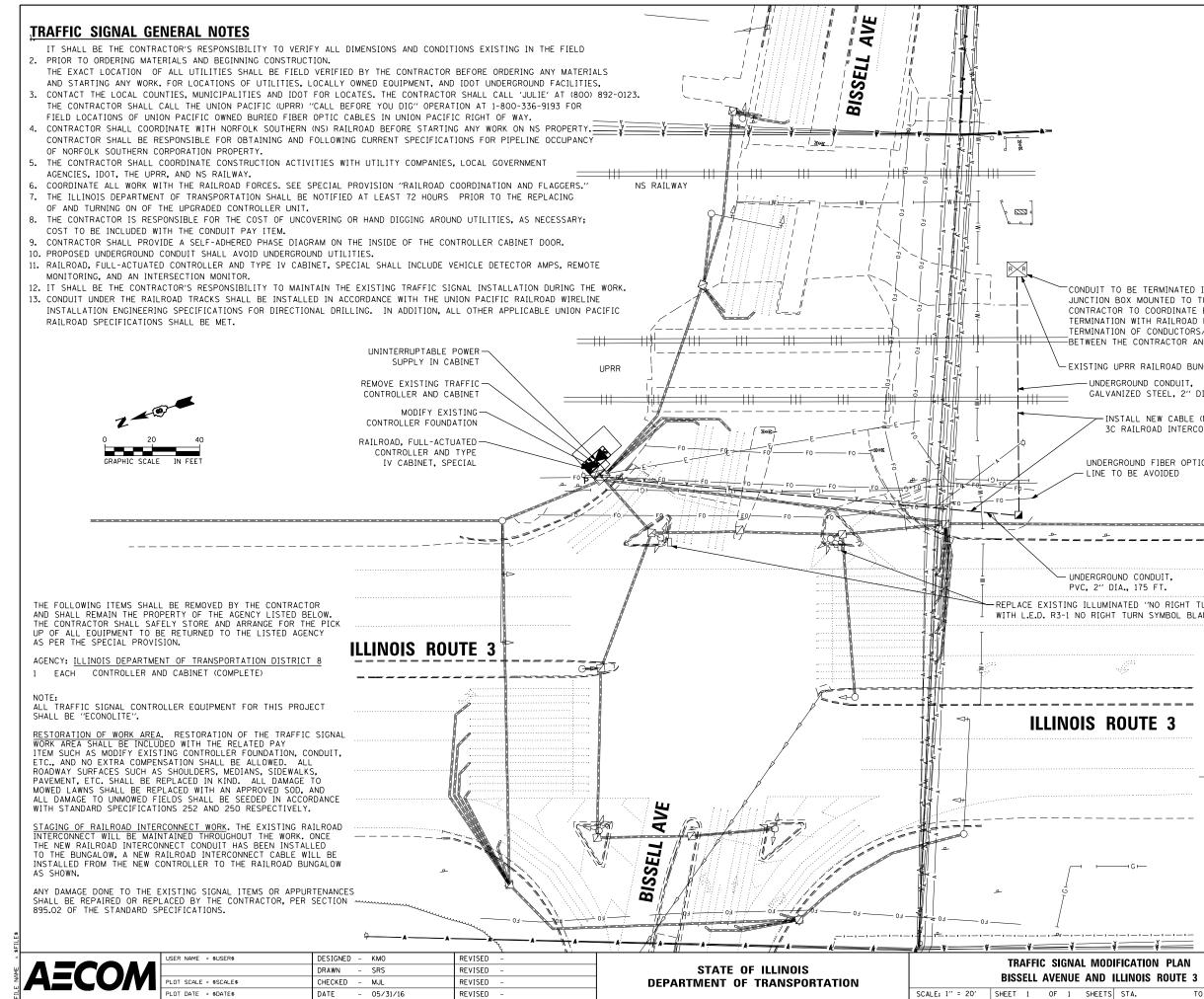




	THERMOPLASTI	C PAVEMENT	MARKING			PAVEMENT
	LINE	4''	LINE 6"	LINE 8"	LINE 24"	MARKING REMOVAL -
S AND DLS	DOUBLE SOLID, YELLOW	SOLID, WHITE	DIAGONALS, WHITE	SOLID, WHITE	SOLID, WHITE	WATER BLASTING
FΤ	FOOT		FOOT	FOOT	FOOT	SQ FT
	-	1	-	—	34	129
	32	30	139	—	26	113
	114	56	332	_	-	129
	116	60	347	-	-	244
	102	55	355	44	-	262
	-	_	_	_	22	_
2	364	201	1173	44	82	877

N E R	SIGN DESCRIPTION	SIGN PANEL T1	WOOD SIGN SUPPORT
		(SQ FT)	(F00T)
1	RR XING	7	15
3	DO NOT STOP ON TRACKS	5	*
3	DO NOT STOP ON TRACKS	5	* *
1	RR XING	7	15
	SUBTOTALS	24	30

ENT MARKING PLAN	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ILLINOIS ROUTE 203	594/2	X-3-RR-HSR, 104-RR-HSR	MADISON	16	10
ELINOIS NOOTE 205			CONTRACT	NO. 7	6J51
'S STA. TO STA.		ILLINOIS FED. AI	D PROJECT		



CONDUIT TO BE TERMINATED INTO THE BUNGALOW OR JUNCTION BOX MOUNTED TO THE BUNGALOW (IF PRESENT). CONTRACTOR TO COORDINATE EXACT CONDUIT TERMINATION WITH RAILROAD FORCES IN THE FIELD. TERMINATION OF CONDUCTORS/CABLE TO BE COORDINATED BETWEEN THE CONTRACTOR AND RAILROAD FORCES.

EXISTING UPRR RAILROAD BUNGALOW - UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA., 104 FT.

> INSTALL NEW CABLE (NO. 14, 3C RAILROAD INTERCONNECT)

UNDERGROUND FIBER OPTIC LINE TO BE AVOIDED

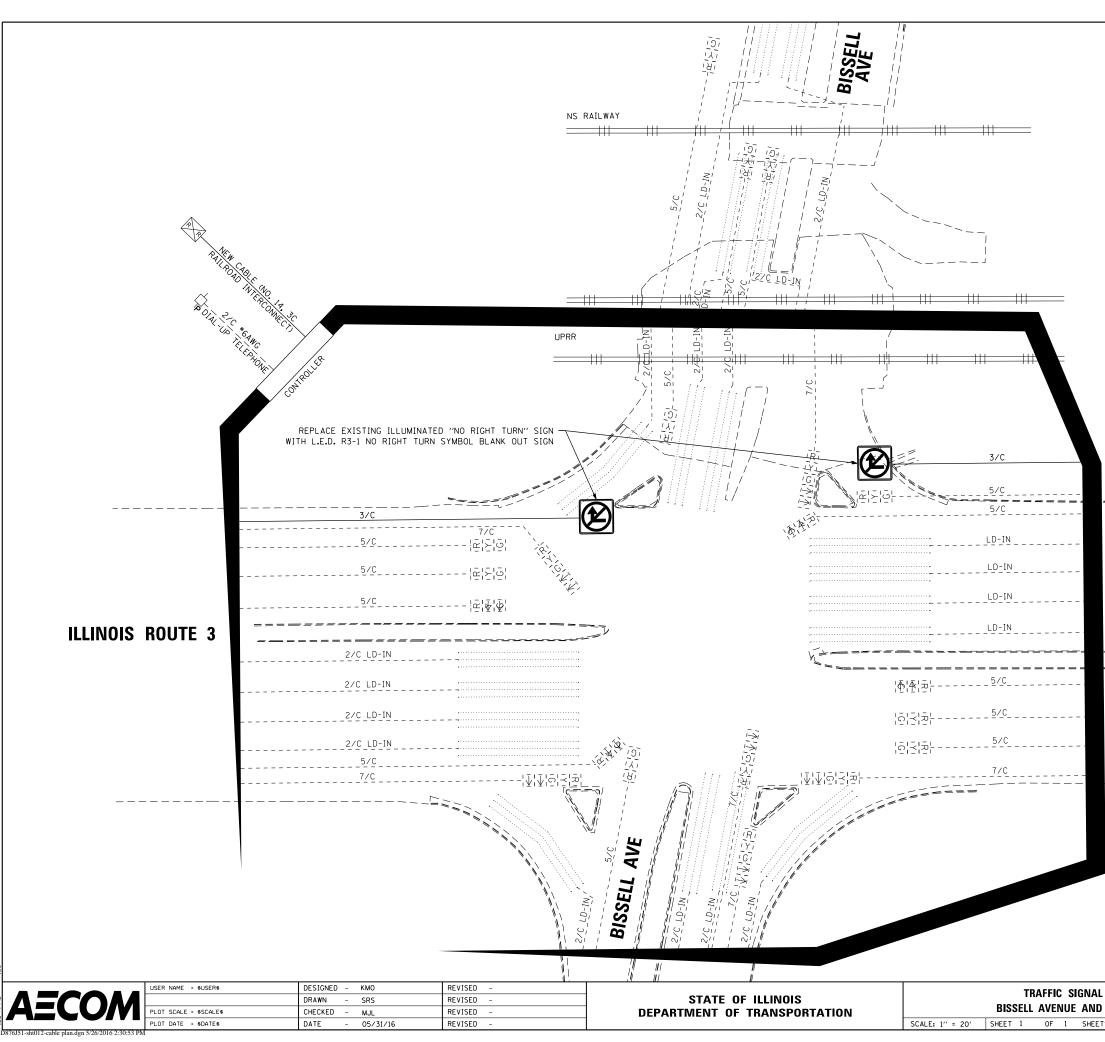
UNDERGROUND CONDUIT. PVC. 2" DIA. 175 FT.

-REPLACE EXISTING ILLUMINATED "NO RIGHT TURN" SIGN WITH L.E.D. R3-1 NO RIGHT TURN SYMBOL BLANK OUT SIGN

TRAFFIC SIGNAL LEGEND

		PROPOSED CONTROLLER
	-0p	EXISTING SERVICE INSTALLATION (POLE MTD.)
	\neg	EXISTING SIGNAL HEAD
ROUTE 3		PROPOSED HANDHOLE
	+1>	EXISTING SIGNAL HEAD WITH BACKPLATE
	0	EXISTING TRAFFIC SIGNAL POST, PAINTED STEEL
•	0	EXISTING STEEL MAST ARM ASSEMBLY AND POLE
		EXISTING HANDHOLE
		EXISTING DOUBLE HANDHOLE
		EXISTING UNDERGROUND CONDUIT
		PROPOSED UNDERGROUND CONDUIT
	\square	RAILROAD CONTROL CABINET (EXISTING)
	UPS	UNINTERRUPTIBLE POWER SUPPLY
	-	EXISTING ILLUMINATED SIGN
	4	PROPOSED L.E.D. BLANK OUT SIGN
x _ x _ x _ x _ x _ x _ x _ 1 _ 1 _ 1 _		

_	s v -						
)DI	FICATION	PLAN	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	ILLINOIS R	OUTE 3	594/2	X-3-RR-HSR, 104-RR-HSR	MADISON	16	11
· ·					CONTRACT	NO. 7	6J51
ΤS	STA.	TO STA.		ILLINOIS FED. A	ID PROJECT		



GRAPHIC SCALE IN FEET

ILLINOIS ROUTE 3

TRAFFIC SIGNAL LEGEND

-🗆 _P	EXISTING SERVICE INSTALLATION (POLE MTD.)
2/C	INDICATES NUMBER OF CONDUCTORS IN CABLE
LD-IN	ELECTRIC CABLE LEAD-IN 1 PAIR
*6	INDICATES AMERICAN WIRE GAUGE (AWG) SIZE 6 CONDUCTORS
	ELECTRIC CABLE IN CONDUIT
	EXISTING ELECTRIC CABLE IN CONDUIT

ILLINOIS ROUTE 3 594/2 X-3-RR-HSR, 104-RR-HSR MADISON 16 12 CONTRACT NO. 76J51	. C	ABLE PLAN		F.A.P. RTE.	SECT	ION		COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO. 76J5			2	594/2	X-3-RR-HSR,	104-RR	-HSR	MADISON	16	12
			J					CONTRACT	NO. 7	'6J51
TS STA. TO STA. ILLINOIS FED. AID PROJECT	TS	STA.	TO STA.			ILLINOIS	FED. AI	D PROJECT		

SEQUENCE OF OPERATION

MOVEMENT		OL 🔨 D				Ę		OL C										OL C			, FI								` 3				ς		F L A S H
PHASE				1 + 5					2 + 5	5		1 + 6							2 + 0	6							3				4				
INTERVAL	1	2A	2B	3A	3B	4A	4B	5	6A	6B	7	84	8B	9	10A	10B	11A	11B	12A	12B	13A	13B	14A	14B	15	16A	16B	16C	16D	17	18A	18B	19A	19B	
CHANGE TO		2	+ 5	1 +	- 6	2 +	+ 6		2	+ 6		2 -	+ 6		1 -	+ 5	2 +	- 5	1 +	- 6	3	5	4	1			+ 5, + 5, 3				-	+ 5 + 6		+ 5 + 6	
ILLINOIS ROUTE 3 S/B FAR LEFT AND LEFT POST MOUNTED SIGNALS	G	G	G	Y	R	Y	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
ILLINOIS ROUTE 3 S/B LEFT AND RIGHT MAST ARM SIGNALS	R	R	R	R	R	R	R	G	G	G	R	R	R	G	Y	R	G	G	Y	R	Y	R	Y	R	R	R	R	R	R	R	R	R	R	R	R
ILLINOIS ROUTE 3 S/B FAR RIGHT AND NEAR RIGHT SIGNALS	R	R	R	R	R	R	R	G G ►	G G	G G →	R	R	R	G G ►	Y Y →	R	G G ►	و م	Y Y	R	Y Y ↓	R	Y G ↓	R G ↓	R	R	R	R	R	R G ┣	R Y →	R	R G ┣	R G ┣	R
ILLINOIS ROUTE 3 N/B FAR LEFT AND LEFT POST MOUNTED SIGNALS	G 🕇	Y	R	G	م	Y	R	R	R	R	G 🕇	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
ILLINOIS ROUTE 3 N/B LEFT AND RIGHT MAST ARM AND NEAR RIGHT SIGNALS	R	R	R	R	R	R	R	R	R	R	G	G	G	G	Y	R	Y	R	G	G	Y	R	Y	R	R	R	R	R	R	R	R	R	R	R	R
BISSELL AVENUE E/B FAR LEFT SIGNAL	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	°°	Y	R	Y	R	R
BISSELL AVENUE E/B FAR RIGHT AND NEAR RIGHT SIGNALS	R G	R Y	R	R G →	R G ▲	R −¥	R	R	R	R	R G ➡	R Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G G ►	Y G ➡	R G →	Y Y	R	R
BISSELL AVENUE (PRE-SIGNAL) W/E	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	R	R	R	R	R	R	R	R
BISSELL AVENUE (WEST OF TRACKS) W/E FAR LEFT SIGNAL	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	♦₀℃	€ G	°°	Y	R	R	R	R	R	R	R
BISSELL AVENUE (WEST OF TRACKS) W/E FAR RIGHT AND NEAR RIGHT SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	G	Y	R	R	R	R	R	R	R

PHASES 2 AND 6 SHALL BE PLACED ON RECALL.

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AME = 4	A=COM	USER NAME = \$USER\$	DESIGNED - MJL DRAWN - MJL	REVISED - REVISED -	STATE OF ILLINOIS		TRAFFIC SIGNAL SEQUENCE OF OPERATION BISSELL AVENUE AND ILLINOIS ROUTE 3	F.A.P. RTE. SECTION COUNTY TOTAL SHEETS SHEETS NO. 594/2 X-3-RR-HSR, 104-RR-HSR MADISON 16 13
z u		PLOT SCALE = \$SCALE\$	CHECKED – JAL	REVISED -	DEPARTMENT OF TRANSPORTATION		DISSELL AVENUE AND ILLINUIS NOUTE 5	CONTRACT NO. 76J51
Ē		PLOT DATE = \$DATE\$	DATE - 05/31/16	REVISED -		SCALE: NTS	SHEET 1 OF 1 SHEETS STA. TO STA.	ILLINOIS FED. AID PROJECT
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RAILROAD PREEMPTION SEQUENCE OF OPERATION

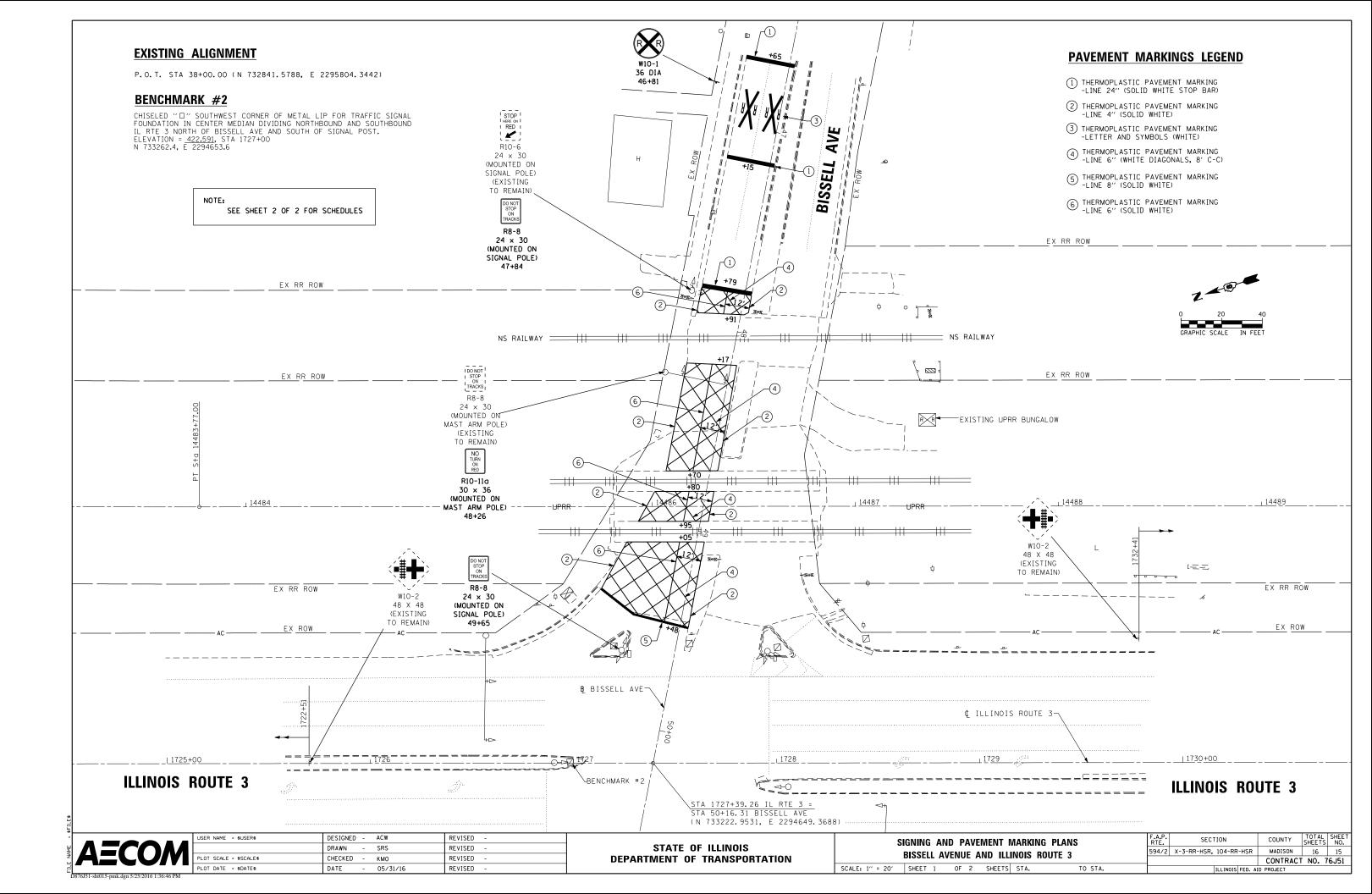
CHANGE FROM NORMAL SEQUENCE OF DPERATION INTERVAL NUMBER		1	ļ	5		7	9	9	1	5	1	7					
RAILROAD PREEMPTION SEQUENCE F OPERATION INTERVAL NUMBER	1 A	1B	1C	1D	1E	1F	1G	1H	1L	1M	1N	1P	2	3	4	5	CLEAR TO
CHANGE TO RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1B	2	1D	2	1F	2	1H	2	1M	2	1P	2	3	4	5	ж	NORMAL SEQUENCE
LLINOIS ROUTE 3 S/B FAR LEFT AND LEFT POST MOUNTED SIGNALS	Y	R	¥	R	R	R	R	R	R	R	R	R	R	R	R	R	Δ
LLINOIS ROUTE 3 S/B .EFT AND RIGHT MAST ARM SIGNALS	R	R	Y	R	R	R	Y	R	R	R	R	R	R	R	R	G	Δ
LLINOIS ROUTE 3 S/B FAR RIGHT AND NEAR RIGHT SIGNALS	R	R	Y Y	R	R	R	Y Y	R	R	R	R Y	R	R	R	R	G	Δ
LLINOIS ROUTE 3 N/B FAR LEFT AND LEFT POST MOUNTED SIGNALS	Y ▲	R	R	R	Y	R	R	R	R	R	R	R	R	R	R	R	Δ
LLINOIS ROUTE 3 N/B EFT AND RIGHT MAST ARM AND NEAR RIGHT SIGNALS	R	R	R	R	Y	R	Y	R	R	R	R	R	R	R	R	G	Δ
BISSELL AVENUE E/F FAR LEFT SIGNAL	R	R	R	R	R	R	R	R	R	R	Y	R	R	R	R	R	Δ
BISSELL AVENUE E/E FAR RIGHT AND NEAR RIGHT SIGNALS	R Y	R	R	R	R Y	R	R	R	R	R	Y Y	R	R	R	R	R	Δ
BISSELL AVENUE (PRE-SIGNAL) W/ ALL SIGNALS	³ R	R	R	R	R	R	R	R	Y	R	R	R	R	R	R	R	Δ
BISSELL AVENUE (WEST OF TRACKS) W/I FAR LEFT SIGNAL	³ R	R	R	R	R	R	R	R	G G	G G	R	R	°°G	Y	R	R	Δ
BISSELL AVENUE (WEST OF TRACKS) W/I FAR RIGHT AND NEAR RIGHT SIGNALS	³ R	R	R	R	R	R	R	R	G	G	R	R	G	Y	R	R	Δ
INTERNALLY ILLUMINATED NO RIGHT TURN SIGNS	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	Δ
HASES 2 AND 6 SHALL BE PLACED ON RECALL.	1		1		1	I	1			I	I			1	I	HOLD	

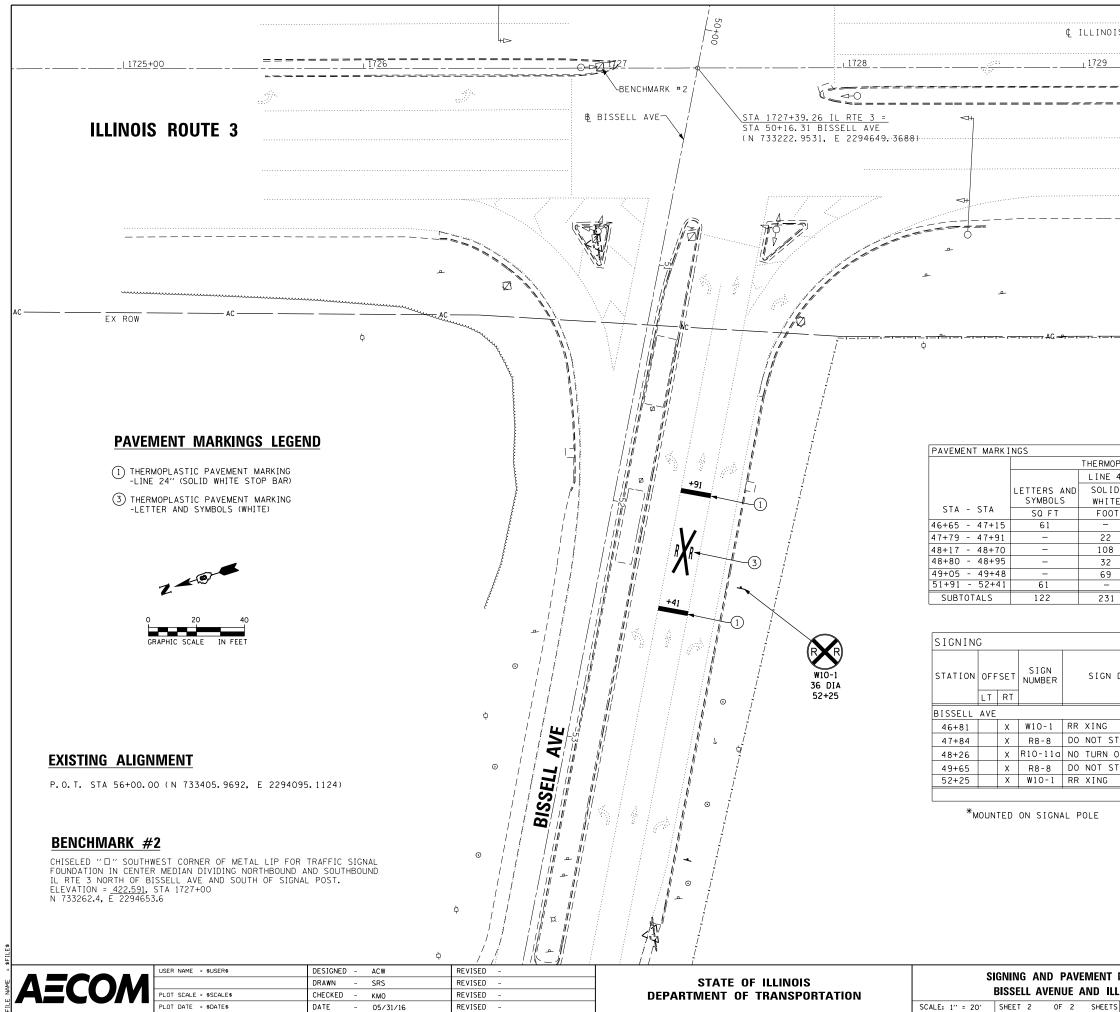
- * THE RAILROAD PREEMPTION SEQUENCE SHALL BE CAPABLE OF CYCLING BETWEEN PHASES 4, 1+6, AND 2+6 UNTIL PREEMPTION IS TERMINATED.
- Δ railroad preemption sequence shall provide the proper clearance interval to resume the normal sequence of operation after railroad INTERVAL 5 IS TERMINATED.

NOTES:

- 1. ONCE PREEMPTION HAS BEEN CALLED, THE TRACK CLEAR SIGNAL DISPLAY SHALL APPEAR IMMEDIATELY AFTER ALL NECESSARY VEHICULAR CLEARANCES HAVE BEEN PROVIDED.
- 2. THE RAILROAD PREEMPTION SEQUENCE OF OPERATION SHALL HAVE PRIORITY OVER ALL OTHER SEQUENCES OF OPERATION.

Image: Name = subsers DESIGNED - MJL REVISED - MJL REVISED - MAECONN DRAWN - MJL REVISED - A REVISED - COUNTY SHEET NO. PLOT SCALE = stockes CHECKED - JAL REVISED - A REVISED - Malicon STATE OF ILLINOIS BEPARTMENT OF TRANSPORTATION Fr.e. Section COUNTY SHEET NO. 594/2 X-3-RR-HSR, 104-RR-HSR Malicon No. 14 PLOT SCALE = stockes CHECKED - JAL REVISED - REVISED - CONTRACT NO. SHEET 1 OF 1 SHEET 5 STA. TO STA. ILLINOIS/FED. AID PROJECT TO STA.
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 ILLINOIS ROUTE 3	
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EX ROW

PLAS	PAVEMENT					
4″	LINE 6"		LINE 8"	LINE 24"	MARKING REMOVAL-	
D,	DIAGONALS,	SOLID,	SOLID,	SOLID,	WATER	
ΓE	WHITE	WHITE	WHITE	WHITE	BLASTING	
Т	FOOT		FOOT	FOOT	SQ FT	
	-	-	-	49	-	
	75	11	-	25	_	
	330	54	—	-	_	
	119	15	_	_	_	
	385	40	49	-	94	
	-	-	-	26	-	
l	909	120	49	100	94	

DESCRIPTION	SIGN PANEL T1	WOOD SIGN SUPPORT							
	(SQ FT)	(F00T)							
	7	15							
TOP ON TRACKS	5	*							
ON RED	8	* *							
TOP ON TRACKS	5	*							
	7	15							
SUBTOTAL	32	30							
NK NK									

* * MOUNTED ON MAST ARM POLE

MARKING PLANS LLINOIS ROUTE 3		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		594/2	X-3-RR-HSR, 104-RR-HSR	MADISON	16	16
			CONTRACT NO. 76J51			'6J51
TS STA.	TO STA.		ILLINOIS FED. AID PROJECT			