03-03-2017 LETTING ITEM 028

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
67	D6 2015-5 HSRR	SANGAMON	12	1
	ILLINOIS	CONTRACT NO. 72H81		

INDEX OF SHEETS

FUNCTIONAL CLASSIFICATION

URBAN PRINCIPAL ARTERIAL (MADISON STREET)
2013 ADT = 13,300
P.V.= N/A S.U.= N/A M.U.= N/A

URBAN PRINCIPAL ARTERIAL (JEFFERSON STREET)
2013 ADT = 13,400
P.V.= N/A S.U.= N/A M.U.= N/A

BEGIN PROJECT MADISON STREET STA. 49+38.00

BEGIN PROJECT JEFFERSON STREET STA. 45+47.00

0 100' 200' 300' — 1"= 100'
0 10' 20' 30' — 1"= 10'
0 50' 100' — 1"= 50'
0 50' 100' — 1"= 40'
0 50' 100' — 1"= 30'
0 50' 100' — 1"= 20'

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

DISTRICT 6 NO. (217) 782-7301
PROJECT ENGINEER: JAY WAVERING (217)785-9046
TOWNSHIP: CAPITAL

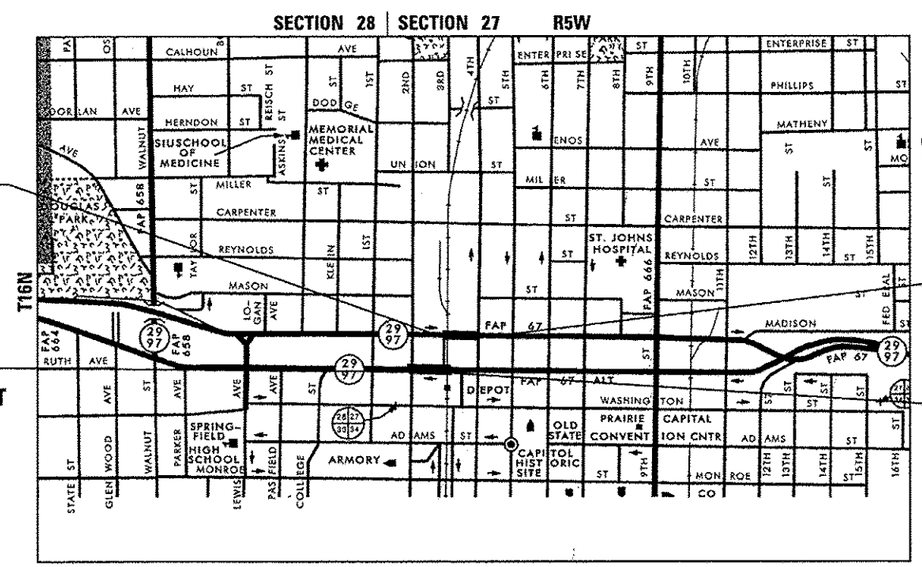
CONTRACT NO. 72H81

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED
HIGHWAY PLANS

F.A.P. ROUTE 67 (MADISON STREET) &
F.A.P. ROUTE 67 ALT (JEFFERSON STREET)
SECTION D6 2015-5 HSRR
PROJECT HSR-0067(085)
TRAFFIC SIGNAL AND RAILROAD
INTERCONNECT MODIFICATIONS
SANGAMON COUNTY /CITY OF SPRINGFIELD

C-96-058-15



CITY OF SPRINGFIELD 3rd P.M.

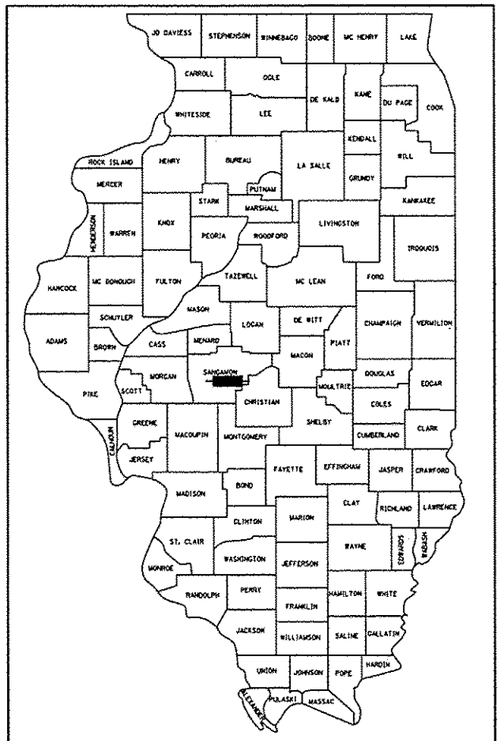
N

0 1000 2000
GRAPHIC SCALE FEET

LOCATION MAP

D-96-058-15

DOT#294303V MP 184.99 **DOT#294305J MP 185.07**



LOCATION OF SECTION INDICATED THUS:-

END PROJECT MADISON STREET STA. 53+67.00

END PROJECT JEFFERSON ST. STA. 50+50.00

	NET LENGTH	GROSS LENGTH
MADISON STREET	429.00 FT (0.081 MI)	429.00 FT (0.081 MI)
JEFFERSON STREET	503.00 FT (0.095 MI)	503.00 FT (0.095 MI)
TOTAL	932.00 FT (0.176 MI)	932.00 FT (0.176 MI)

FINAL

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED 8 December 20 16
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER
Jan 27 20 17
ENGINEER OF DESIGN AND ENVIRONMENT
Jan 27 20 17
DIRECTOR OF PROGRAM DEVELOPMENT

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

AECOM
AECOM Technical Services, Inc.
303 E. WACKER DRIVE, SUITE 1400
CHICAGO, ILLINOIS 60601
PH. 312-373-7700

MATTHEW J. LETOURNEAU
062-055763
LICENSED PROFESSIONAL ENGINEER OF ILLINOIS

DATE: 11/23/2016
MATTHEW J. LETOURNEAU
IL. REG. P.E. NO. 062-055763
EXPIRES: 11/30/2017

HIGHWAY STANDARDS

000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-06	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
805001-01	ELECTRICAL SERVICE INSTALLATION DETAILS
814001-03	HANDHOLES
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
857006-01	SUPERVISED RAILROAD INTERCONNECT CIRCUIT
862001-01	UNINTERRUPTABLE POWER SUPPLY (UPS)
878001-10	CONCRETE FOUNDATION DETAILS

GENERAL NOTES

1. NO WORK SHALL COMMENCE UNTIL TRAFFIC CONTROL REQUIREMENTS ARE MET. THE CONTRACTOR SHALL DEVELOP A PLAN TO ACCOMPLISH THIS WORK AND MINIMIZE DISRUPTION OF VEHICULAR, RAIL, AND PEDESTRIAN TRAFFIC. THIS PLAN SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

2. ALL UTILITIES, SCHOOL DISTRICTS, LOCAL POLICE, AND FIRE DEPARTMENTS SHALL BE NOTIFIED BY THE CONTRACTOR A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION.

3. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE AND MAINTAIN ACCESS TO ABUTTING PROPERTIES AT ALL TIMES DURING CONSTRUCTION OF THE PROJECT.

4. THE CONTRACTOR SHALL BE REQUIRED TO COMPLY WITH STATE REGULATIONS REGARDING AIR, WATER, AND NOISE POLLUTION.

5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL UNDERGROUND UTILITY FACILITIES. HE SHALL ALSO OBTAIN FROM THE RESPECTIVE UTILITY COMPANIES DETAILED INFORMATION RELATIVE TO THE LOCATION OF THEIR FACILITIES AND THE WORKING SCHEDULES OF THE UTILITY COMPANIES FOR THEIR MARKING OF THE EXACT LOCATION PRIOR TO CONSTRUCTION.

6. BEFORE STARTING ANY WORK, THE CONTRACTOR SHALL CALL "JULIE" AT 1-800-892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES (MINIMUM 48 HOURS NOTIFICATION IS REQUIRED). THE CONTRACTOR SHALL CALL THE UNION PACIFIC "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.

7. MEMBERS OF JULIE KNOWN TO BE WITHIN THE LIMITS OF THE IMPROVEMENT ARE:
   1. AMEREN ILLINOIS
   2. AT&T
   3. CITY OF SPRINGFIELD, PUBLIC WORKS
   4. CITY WATER LIGHT AND POWER
   5. COMCAST
   6. SPRINGFIELD METRO SANITARY DISTRICT
   7. SPRINT
   8. LEVEL 3 COMMUNICATIONS
   9. CENTURYLINK COMMUNICATIONS
   10. WINDSTREAM

8. NON-MEMBERS OF JULIE KNOWN TO BE WITHIN THE LIMITS OF THE IMPROVEMENT ARE:
   1. UNION PACIFIC RAILROAD COMPANY (FIBER OPTIC)
   2. UNION PACIFIC RAILROAD, IL HSR PROGRAM (RAILROAD SIGNALS)
   3. STATE OF ILLINOIS

9. THE CONTRACTOR SHALL COORDINATE WITH THE UPRR SIGNAL DEPARTMENT FOR ITEMS REMOVED OR INSTALLED BY THE UPRR SIGNAL DEPARTMENT.

10. U.P.R.R. FLAGGERS SHALL BE PRESENT WHEN WORKING WITHIN THE U.P.P.R. RIGHT-OF-WAY. THE CONTRACTOR SHALL COORDINATE DIRECTLY WITH THE THE U.P.P.R. TO ASSURE THAT FLAGGERS ARE PRESENT DURING CONSTRUCTION. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

11. FOR STABILIZATION, ALL TYPE III BARRICADES (WHERE NEEDED) SHALL REQUIRE A MINIMUM OF FOUR SAND BAGS PER BARRICADE.

12. SEEDING SHALL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET OR IN AN UNTILLABLE CONDITION. THE AREAS TO BE SEEDED SHALL CONSIST OF ALL DISTURBED EARTH SURFACES WITHIN THE RIGHT-OF-WAY. LOCATIONS TO BE SEEDED WILL BE DETERMINED BY THE ENGINEER.

13. 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 SHALL BE INCLUDED IN THE COST OF "MODIFY EXISTING CONTROLLER FOUNDATION".

14. ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUB NUMBER SHOWN IN THE LIST OF HIGHWAY STANDARDS INCLUDED ON THIS SHEET OR REFERENCED IN THESE PLANS.

15. THE CONTRACTOR SHALL KEEP EXISTING ADJACENT STREETS CLEAN OF DIRT, MUD, AND OTHER DEBRIS AND, WHEN NECESSARY, CLEAN SAID PAVEMENTS ON A DAILY BASIS OR WHEN DIRECTED BY THE ENGINEER. NO EXTRA COMPENSATION SHALL BE ALLOWED THE CONTRACTOR FOR THIS WORK.

16. THE SCALE SHOWN ON THE DRAWINGS APPLIES ONLY TO FULL SIZE PLANS AND NOT TO THE REDUCED SIZE PLANS. REDUCED SIZED PLANS CAN BE PRINTED TO SCALE FOR USE IN THE FIELD.

17. WHERE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED OF ANY SECTION OR SUB-SECTION MONUMENTS, BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER OR AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.

COMMITMENTS

NONE.
November 23, 2016

DISTRICT SIX

EXAMINED October 3, 20 16
OPERATIONS ENGINEER

EXAMINED October 3 20 16
PROJECT IMPLEMENTATION ENGINEER

EXAMINED October 12 20 16
PROGRAM DEVELOPMENT ENGINEER

FILE NAME = c:\projects\kevin.oneill\transportation\dgn\86465\2943837-SHT-Notes.dgn

AECOM

USER NAME = kevin.oneill	DESIGNED - KMO	REVISED -
	DRAWN - KMO	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - MJL	REVISED -
PLOT DATE = 11/22/2016	DATE - 11/23/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HIGHWAY STANDARDS, GENERAL NOTES AND COMMITMENTS

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
67	D6 2015-5 HSRR	SANGAMON	12	2
		CONTRACT NO. 72H81		
	ILLINOIS FED. AID PROJECT			

SUMMARY OF QUANTITIES

ITEM NO.	ITEM DESCRIPTION	UNIT	URBAN TOTAL QUANTITY	PPS # 6-00284-0700 CONSTRUCTION TYPE CODE SIGNALS MADISON ST. 100% HSR 0021	SIGNALS JEFFERSON ST. 100% HSR 0021
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	40	40	
25200100	SODDING	SQ YD	40	40	
42400100	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	SQ FT	405	50	355
44000100	PAVEMENT REMOVAL	SQ YD	4		4
44000600	SIDEWALK REMOVAL	SQ FT	405	50	355
44201737	CLASS D PATCHES, TYPE I, 8 INCH	SQ YD	4		4
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	165	82.5	82.5
67100100	MOBILIZATION	LSUM	1	0.5	0.5
* 66900450	SPECIAL WASTE PLANS AND REPORTS	L SUM	1	0.5	0.5
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	LSUM	1	0.5	0.5
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	4	2	2
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	LSUM	1	0.5	0.5
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	LSUM	1	0.5	0.5
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	2	1	1
* 72000100	SIGN PANEL - TYPE 1	SQ FT	48	24	24
81028350	UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	800	308	492
81028390	UNDERGROUND CONDUIT, PVC, 4" DIA.	FOOT	88		88

14

* DENOTES SPECIALTY ITEM

SUMMARY OF QUANTITIES

			URBAN	PPS # 6-00284-0700	
				CONSTRUCTION TYPE CODE	
ITEM NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	SIGNALS MADISON ST.	SIGNALS JEFFERSON ST.
				100% HSR	100% HSR
				0021	0021
81400100	HANDHOLE	EACH	4	1	3
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	2	1	1
85900100	TRANSCEIVER	EACH	2	1	1
87301750	ELECTRIC CABLE IN CONDUIT, RAILROAD, NO. 14 3C	FOOT	1165	511	654
87900200	DRILL EXISTING HANDHOLE	EACH	2	1	1
89502215	MODIFY EXISTING CONTROLLER FOUNDATION	EACH	2	1	1
X1400168	RAILROAD, FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	2	1	1
X7010234	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701, SPECIAL	LSUM	1	0.5	0.5
X8620200	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	2	1	1
X8950105	REMOVE EXISTING TRAFFIC CONTROLLER AND CABINET	EACH	2	1	1
X0327611	REMOVE AND REINSTALL BRICK PAVER	SQ FT	135		135
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	LSUM	1	0.5	0.5
X1400214	SPARE RAILROAD, FULL ACTUATED CONTROLLER, SPECIAL	EACH	2	1	1

12

* DENOTES SPECIALTY ITEM

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AECOM

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	DRAWN - KMO	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - MJL	REVISED -
PLOT DATE = 11/23/2016	DATE - 11/23/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NONE | SHEET 2 OF 2 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
67	D6 2015-5 HSRR	SANGAMON	12	4
		CONTRACT NO. 72H81		
		ILLINOIS FED. AID PROJECT		

TRAFFIC SIGNAL GENERAL NOTES

1. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING CONSTRUCTION (J.U.L.I.E. 800-892-0123).
2. COORDINATE ALL WORK WITH THE RAILROAD FORCES.
3. THE ILLINOIS DEPARTMENT OF TRANSPORTATION, DISTRICT 6 OPERATIONS, MIKE IRWIN (217-524-7765) AND THE CITY OF SPRINGFIELD DEPARTMENT OF PUBLIC WORKS (217-789-2260) SHALL BE NOTIFIED AT LEAST 72 HOURS PRIOR TO THE REPLACING OF AND TURNING ON OF THE UPGRADED CONTROLLER UNIT.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPORTING THE ELECTRICAL LOADS FOR THE UNMETERED SERVICES ON THIS IMPROVEMENT TO THE UTILITY COMPANY AND AGENCY RESPONSIBLE FOR ENERGY CHARGES: CITY OF SPRINGFIELD, ILLINOIS.
5. THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF UNCOVERING OR HAND DIGGING AROUND UTILITIES, AS NECESSARY; COST TO BE INCLUDED WITH THE "MODIFY EXISTING CONTROLLER FOUNDATION" PAY ITEM.
6. CONTRACTOR SHALL PROVIDE A SELF-ADHERED PHASE DIAGRAM ON THE INSIDE OF THE CONTROLLER CABINET DOOR.

SIGNING SCHEDULE							
	STATION	OFFSET LT	OFFSET RT	SIGN NO	SIGN DESCRIPTION	72000100 SIGN PANEL T1 (SQ FT)	ATTACHMENT
A1	52+80		X	X10-I101	CAUTION WALK TIME SHORTENED WHEN TRAIN APPROACHES (2 SIGNS)	6	* *
A2	52+91	X		X10-I101	CAUTION WALK TIME SHORTENED WHEN TRAIN APPROACHES (2 SIGNS)	6	* *
A3	53+42		X	X10-I101	CAUTION WALK TIME SHORTENED WHEN TRAIN APPROACHES (2 SIGNS)	6	* *
A4	53+51	X		X10-I101	CAUTION WALK TIME SHORTENED WHEN TRAIN APPROACHES (2 SIGNS)	6	*
					SUBTOTAL	24	

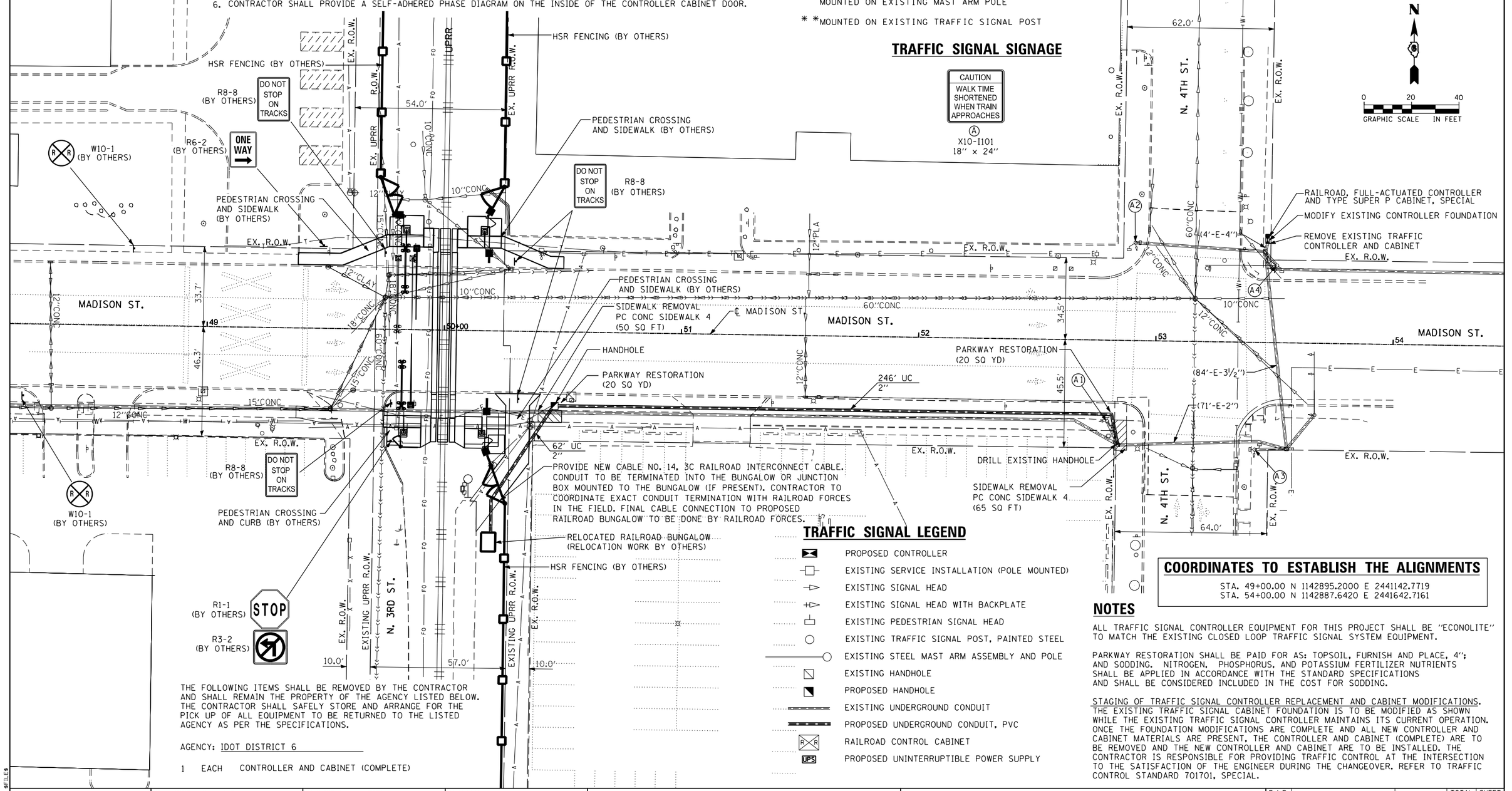
*MOUNTED ON EXISTING MAST ARM POLE

**MOUNTED ON EXISTING TRAFFIC SIGNAL POST

TRAFFIC SIGNAL SIGNAGE

CAUTION
WALK TIME SHORTENED WHEN TRAIN APPROACHES

(A) X10-I101
18" x 24"



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 SPECIFICATIONS.

AGENCY: IDOT DISTRICT 6

1 EACH CONTROLLER AND CABINET (COMPLETE)

TRAFFIC SIGNAL LEGEND

- PROPOSED CONTROLLER
- EXISTING SERVICE INSTALLATION (POLE MOUNTED)
- EXISTING SIGNAL HEAD
- EXISTING SIGNAL HEAD WITH BACKPLATE
- EXISTING PEDESTRIAN SIGNAL HEAD
- EXISTING TRAFFIC SIGNAL POST, PAINTED STEEL
- EXISTING STEEL MAST ARM ASSEMBLY AND POLE
- EXISTING HANDHOLE
- PROPOSED HANDHOLE
- EXISTING UNDERGROUND CONDUIT
- PROPOSED UNDERGROUND CONDUIT, PVC
- RAILROAD CONTROL CABINET
- PROPOSED UNINTERRUPTIBLE POWER SUPPLY

COORDINATES TO ESTABLISH THE ALIGNMENTS

STA. 49+00.00 N 1142895.2000 E 2441142.7719
STA. 54+00.00 N 1142887.6420 E 2441642.7161

NOTES

ALL TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM EQUIPMENT.

PARKWAY RESTORATION SHALL BE PAID FOR AS: TOPSOIL, FURNISH AND PLACE, 4"; AND SODDING. NITROGEN, PHOSPHORUS, AND POTASSIUM FERTILIZER NUTRIENTS SHALL BE APPLIED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS AND SHALL BE CONSIDERED INCLUDED IN THE COST FOR SODDING.

STAGING OF TRAFFIC SIGNAL CONTROLLER REPLACEMENT AND CABINET MODIFICATIONS. THE EXISTING TRAFFIC SIGNAL CABINET FOUNDATION IS TO BE MODIFIED AS SHOWN WHILE THE EXISTING TRAFFIC SIGNAL CONTROLLER MAINTAINS ITS CURRENT OPERATION. ONCE THE FOUNDATION MODIFICATIONS ARE COMPLETE AND ALL NEW CONTROLLER AND CABINET MATERIALS ARE PRESENT, THE CONTROLLER AND CABINET (COMPLETE) ARE TO BE REMOVED AND THE NEW CONTROLLER AND CABINET ARE TO BE INSTALLED. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING TRAFFIC CONTROL AT THE INTERSECTION TO THE SATISFACTION OF THE ENGINEER DURING THE CHANGEOVER. REFER TO TRAFFIC CONTROL STANDARD 701701, SPECIAL.

FILE NAME = $FILE$

AECOM

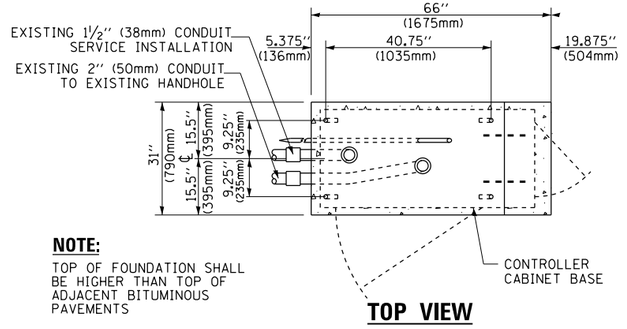
USER NAME = Verenskifa	DESIGNED - KMO	REVISED -
	DRAWN - KMO	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - MJL	REVISED -
PLOT DATE = 12/9/2016	DATE - 11/23/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL PLAN MADISON STREET (FAP 67)
(U.P.R.R. – N. 4TH ST.)

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

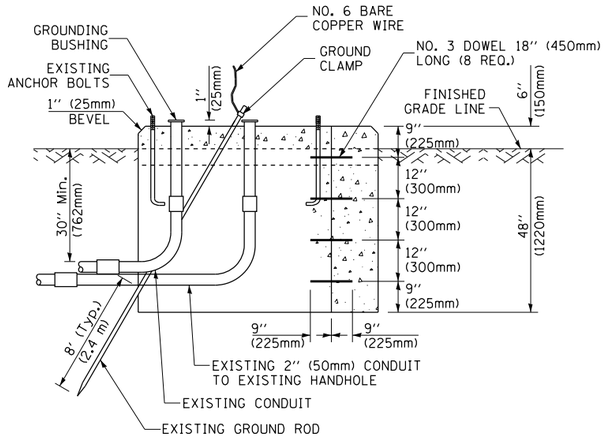
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
67	D6 2015-5 HSRR	SANGAMON	12	5
		CONTRACT NO. 72H81		
		ILLINOIS FED. AID PROJECT		



NOTE:

TOP OF FOUNDATION SHALL BE HIGHER THAN TOP OF ADJACENT BITUMINOUS PAVEMENTS

TOP VIEW



MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION FOR GROUND MOUNTED TYPE SUPER P CONTROLLER CABINETS (MADISON ST.)

NOTES:

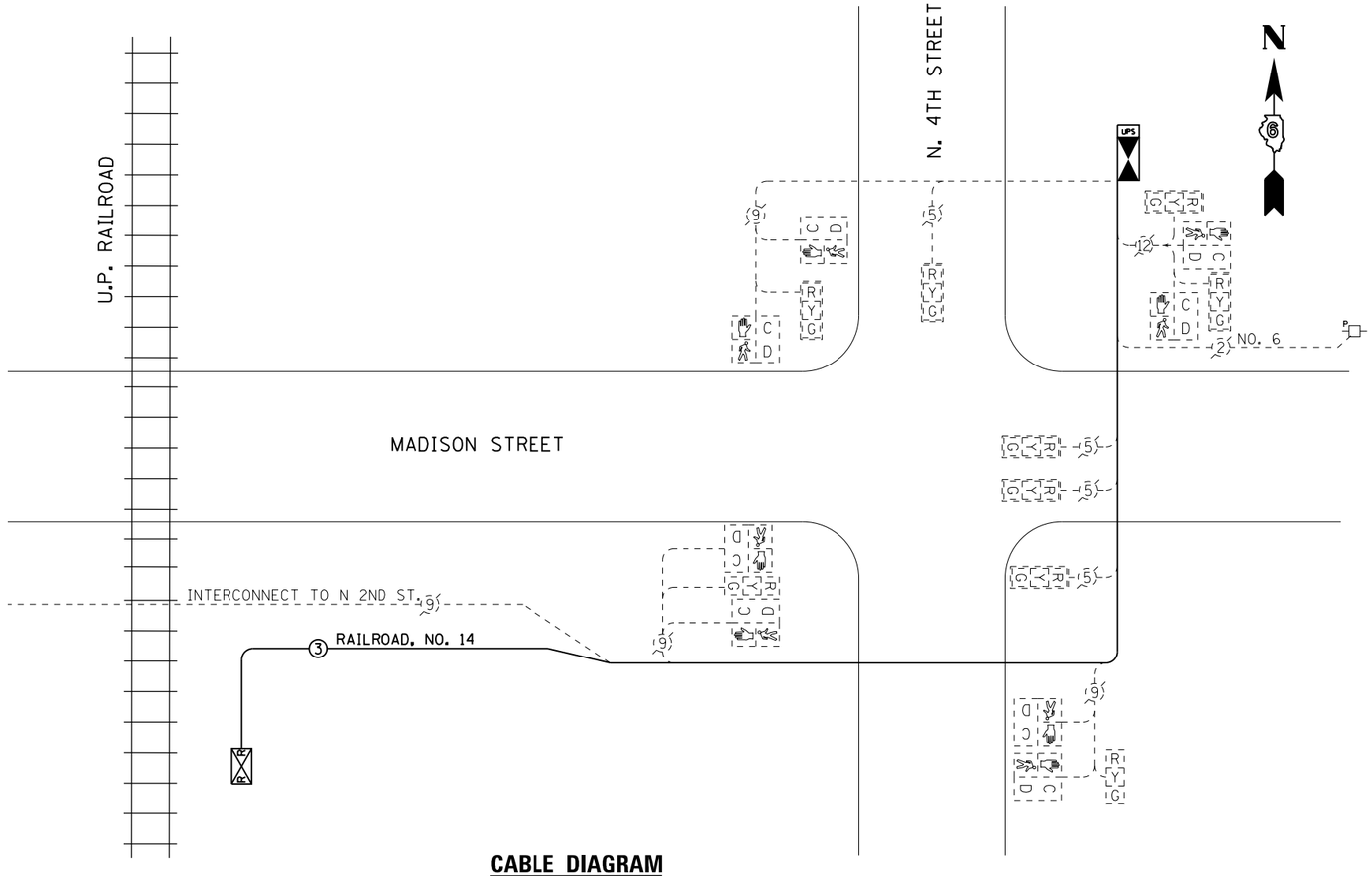
1. FURNISH AND INSTALL A 20 AMP, 1 POLE, 120VAC, 10,000 A/C AT 120VAC CIRCUIT BREAKER FOR DUPLEX RECEPTACLES, AND A U.L. LISTED GROUNDED THREE-WIRE, 120VAC, 20 AMP GROUND FAULT INTERRUPTER TYPE DUPLEX RECEPTACLE (NEMA 5-20R) ALL LOCATED IN THE CONTROLLER CABINET.

2. CONTROLLER SPECIFIED: FULL-ACTUATED CONTROLLER, STANDARD SEQUENCE II, 8 PHASE, IN TYPE SUPER P CABINET.

3. THE TRAFFIC SIGNAL CONTROLLER SHALL HAVE REMOTE MONITORING CAPABILITES INCLUDING ALL NECESSARY PERIPHERAL HARDWARE SUCH AS INTERSECTION MONITOR, ETC. TO ALLOW FOR BOTH REMOTE ACCESS AND AUTOMATIC CONTROLLER REPORTING OF ALARMS. THE COST OF THE NECESSARY ADDITIONAL HARDWARE SHALL BE INCLUDED IN THE UNIT PRICE FOR "RAILROAD, FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)."

4. CARE SHOULD BE TAKEN DURING MODIFICATION OF THE EXISTING FOUNDATION TO NOT DAMAGE THE EXISTING SERVICE CONDUIT AND SERVICE CABLE.

5. STAGING OF TRAFFIC SIGNAL CONTROLLER REPLACEMENT AND CABINET MODIFICATIONS. THE EXISTING TRAFFIC SIGNAL CABINET FOUNDATION IS TO BE MODIFIED AS SHOWN WHILE THE EXISTING TRAFFIC SIGNAL CONTROLLER MAINTAINS ITS' CURRENT OPERATION. ONCE THE FOUNDATION MODIFICATIONS ARE COMPLETE AND ALL NEW CONTROLLER AND CABINET MATERIALS ARE PRESENT, THE CONTROLLER AND CABINET (COMPLETE) ARE TO BE REMOVED AND THE NEW CONTROLLER AND CABINET ARE TO BE INSTALLED. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING TRAFFIC CONTROL AT THE INTERSECTION TO THE SATISFACTION OF THE ENGINEER DURING THE CHANGEOVER. REFER TO TRAFFIC CONTROL STANDARD 701701, SPECIAL.



CABLE DIAGRAM

CABLE DIAGRAM LEGEND

NOTE: ALL ITEMS ARE EXISTING TO REMAIN UNLESS OTHERWISE STATED.

- DENOTES NUMBER OF CONDUCTORS (EXISTING) ALL CABLE NO. 12 (UNLESS OTHERWISE NOTED)
- DENOTES NUMBER OF CONDUCTORS (PROPOSED) ALL CABLE NO. 14 EXCEPT AS INDICATED
- EXISTING SERVICE INSTALLATION, POLE MTD.
- PROPOSED CONTROLLER AND CABINET
- UPS — PROPOSED UNINTERRUPTIBLE POWER SUPPLY
- R R — PROPOSED RAILROAD CONTROL CABINET
- SIGNAL SECTION, 12''
- WALK/DON'T WALK SECTION
- TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC

SCHEDULE OF QUANTITIES

DESCRIPTION	UNIT	QUANTITY
UNDERGROUND CONDUIT, PVC, 2'' DIA.	FOOT	308
HANDHOLE	EACH	1
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
TRANSCEIVER	EACH	1
ELECTRIC CABLE IN CONDUIT, RAILROAD, NO. 14 3C	FOOT	511
DRILL EXISTING HANDHOLE	EACH	1
MODIFY EXISTING CONTROLLER FOUNDATION	EACH	1
RAILROAD, FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
REMOVE EXISTING TRAFFIC CONTROLLER AND CABINET	EACH	1
SPARE RAILROAD, FULL ACTUATED CONTROLLER, SPECIAL	EACH	1

FILE NAME = c:\pwworking\kevin.oneill\transportationus\dms18646\2943B3V-Sht-Cable Plan.dgn

AECOM

USER NAME = kevin.oneill	DESIGNED - KMO	REVISED -	
	DRAWN - KMO	REVISED -	
PLOT SCALE = 40.0000 '/ in.	CHECKED - MJL	REVISED -	
PLOT DATE = 11/22/2016	DATE - 11/23/2016	REVISED -	

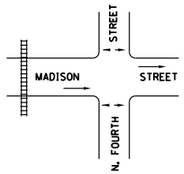
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

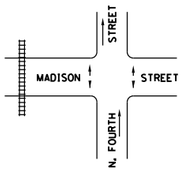
TRAFFIC SIGNAL CABLE PLAN AND SCHEDULE OF QUANTITIES
MADISON STREET (U.P.R.R. – N. 4TH ST.)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
67	D6 2015-5 HSRR	SANGAMON	12	6
		CONTRACT NO. 72H81		
	ILLINOIS FED. AID PROJECT			

SEQUENCE OF OPERATION





MOVEMENT										FLASH
PHASE		2				4				
INTERVAL		1	2	3A	3B	4	5	6A	6B	
CHANGE TO				4				2		
MADISON STREET ALL SIGNALS	E/B	G	G	Y	R	R	R	R	R	R
NORTH FOURTH STREET ALL SIGNALS	N/B	R	R	R	R	G	G	Y	R	R
PEDESTRIAN SIGNALS CROSSING N. FOURTH STREET ON BOTH SIDES OF MADISON STREET		P	**FH	H	H	H	H	H	H	DARK
PEDESTRIAN SIGNALS CROSSING MADISON STREET ON BOTH SIDES OF NORTH FOURTH STREET		H	H	H	H	P	**FH	H	H	

PHASE 2 SHALL BE PLACED ON RECALL

* = TO APPEAR ONLY UPON PUSHBUTTON ACTUATION

** = FLASHING "DON'T WALK" IS TO TERMINATE AT THE COMPLETION OF THE PEDESTRIAN INTERVAL CLEARANCE.

P = ILLUMINATED PERSON = WALK

FH = ILLUMINATED FLASHING HAND = FLASHING DON'T WALK

H = ILLUMINATED SOLID HAND = DON'T WALK

RAILROAD PREEMPTION SEQUENCE OF OPERATION

				PREEMPTOR NUMBER 2				
CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER	1	4						
RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1A	1B	1C	2	3	4	5	CLEAR TO NORMAL SEQUENCE
CHANGE TO RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	2	1C	2	3	4	5		
MADISON STREET ALL SIGNALS E/B	G	R	R	G	Y	R	R	△
NORTH FOURTH STREET ALL SIGNALS N/B	R	Y	R	R	R	R	G	△
PEDESTRIAN SIGNALS CROSSING N. FOURTH STREET ON BOTH SIDES OF MADISON STREET	FH	H	H	H	H	H	H	△
PEDESTRIAN SIGNALS CROSSING MADISON STREET ON BOTH SIDES OF NORTH FOURTH STREET	H	FH	H	H	H	H	H	△
							HOLD	

P = ILLUMINATED PERSON = WALK

FH = ILLUMINATED FLASHING HAND = FLASHING DON'T WALK

H = ILLUMINATED SOLID HAND = DON'T WALK

△ = RAILROAD PREEMPTION SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION OR PROPER CLEARANCE INTERVAL TO DISPLAY AN EMERENCY VEHICLE INTERVAL (IF APPLICABLE) 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. RAILROAD PREEMPTION WILL TERMINATE ACTIVE PEDESTRIAN PHASES IMMEDIATELY. PEDESTRIAN CLEARANCES WILL BE ABBREVIATED.
3. THE RAILROAD PREEMPTION SEQUENCE OF OPERATION SHALL HAVE PRIORITY OVER ALL OTHER SEQUENCES OF OPERATION.

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PLOT DATE = 11/22/2016	DATE - 11/23/2016	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL AND RAILROAD SEQUENCES OF OPERATION
MADISON STREET (U.P.R.R. – N. 4TH ST.)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
67	D6 2015-5 HSRR	SANGAMON	12	7
		CONTRACT NO. 72H81		
	ILLINOIS FED. AID PROJECT			

TRAFFIC SIGNAL GENERAL NOTES

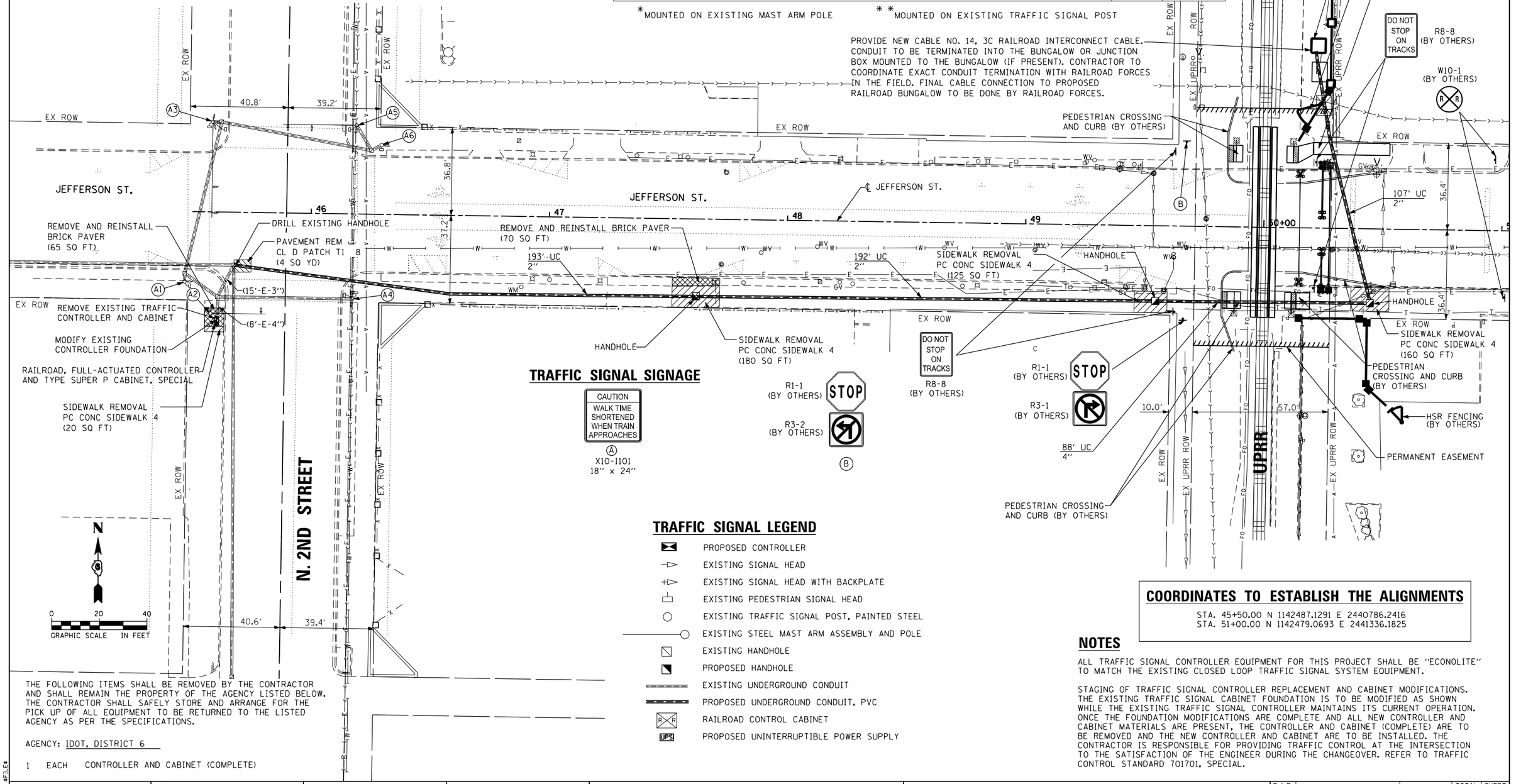
1. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING CONSTRUCTION (J.U.L.I.E. 800/892-0123).
2. COORDINATE ALL WORK WITH THE RAILROAD FORCES.
3. THE ILLINOIS DEPARTMENT OF TRANSPORTATION, DISTRICT 6 OPERATIONS, MIKE IRWIN (217-524-7765) AND THE CITY OF SPRINGFIELD DEPARTMENT OF PUBLIC WORKS (217-789-2260) SHALL BE NOTIFIED AT LEAST 72 HOURS PRIOR TO THE REPLACING OF AND TURNING ON OF THE UPGRADED CONTROLLER UNIT.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPORTING THE ELECTRICAL LOADS FOR THE UNMETERED SERVICES ON THIS IMPROVEMENT TO THE UTILITY COMPANY AND AGENCY RESPONSIBLE FOR ENERGY CHARGES: CITY OF SPRINGFIELD, ILLINOIS.
5. THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF UNCOVERING OR HAND DIGGING AROUND UTILITIES, AS NECESSARY; COST TO BE INCLUDED WITH THE "MODIFY EXISTING CONTROLLER FOUNDATION" PAY ITEM.
6. CONTRACTOR SHALL PROVIDE A SELF-ADHERED PHASE DIAGRAM ON THE INSIDE OF THE CONTROLLER CABINET DOOR.

SIGNING SCHEDULE

	STATION	OFFSET LT	OFFSET RT	SIGN NO	SIGN DESCRIPTION	72000100 SIGN PANEL T1 (SQ FT)	ATTACHMENT
A1	45+47		X	X10-1101	CAUTION WALK TIME SHORTENED WHEN TRAIN APPROACHES	3	* *
A2	45+58		X	X10-1101	CAUTION WALK TIME SHORTENED WHEN TRAIN APPROACHES	3	*
A3	45+58	X		X10-1101	CAUTION WALK TIME SHORTENED WHEN TRAIN APPROACHES (2 SIGNS)	6	*
A4	46+18		X	X10-1101	CAUTION WALK TIME SHORTENED WHEN TRAIN APPROACHES (2 SIGNS)	6	* *
A5	46+19	X		X10-1101	CAUTION WALK TIME SHORTENED WHEN TRAIN APPROACHES	3	*
A6	46+29	X		X10-1101	CAUTION WALK TIME SHORTENED WHEN TRAIN APPROACHES	3	* *
					SUBTOTAL	24	

*MOUNTED ON EXISTING MAST ARM POLE

**MOUNTED ON EXISTING TRAFFIC SIGNAL POST



TRAFFIC SIGNAL SIGNAGE

CAUTION
WALK TIME SHORTENED WHEN TRAIN APPROACHES
(A)
X10-1101
18" x 24"

TRAFFIC SIGNAL LEGEND

- PROPOSED CONTROLLER
- EXISTING SIGNAL HEAD
- EXISTING SIGNAL HEAD WITH BACKPLATE
- EXISTING PEDESTRIAN SIGNAL HEAD
- EXISTING TRAFFIC SIGNAL POST, PAINTED STEEL
- EXISTING STEEL MAST ARM ASSEMBLY AND POLE
- EXISTING HANDHOLE
- PROPOSED HANDHOLE
- EXISTING UNDERGROUND CONDUIT
- PROPOSED UNDERGROUND CONDUIT, PVC
- RAILROAD CONTROL CABINET
- PROPOSED UNINTERRUPTIBLE POWER SUPPLY

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 SPECIFICATIONS.

AGENCY: IDOT, DISTRICT 6

1 EACH CONTROLLER AND CABINET (COMPLETE)

COORDINATES TO ESTABLISH THE ALIGNMENTS

STA. 45+50.00 N 1142487.1291 E 2440786.2416
STA. 51+00.00 N 1142479.0693 E 2441336.1825

NOTES

ALL TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM EQUIPMENT.

STAGING OF TRAFFIC SIGNAL CONTROLLER REPLACEMENT AND CABINET MODIFICATIONS. THE EXISTING TRAFFIC SIGNAL CABINET FOUNDATION IS TO BE MODIFIED AS SHOWN WHILE THE EXISTING TRAFFIC SIGNAL CONTROLLER MAINTAINS ITS CURRENT OPERATION. ONCE THE FOUNDATION MODIFICATIONS ARE COMPLETE AND ALL NEW CONTROLLER AND CABINET MATERIALS ARE PRESENT, THE CONTROLLER AND CABINET (COMPLETE) ARE TO BE REMOVED AND THE NEW CONTROLLER AND CABINET ARE TO BE INSTALLED. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING TRAFFIC CONTROL AT THE INTERSECTION TO THE SATISFACTION OF THE ENGINEER DURING THE CHANGEOVER. REFER TO TRAFFIC CONTROL STANDARD 701701, SPECIAL.

FILE NAME = $FILE$

AECOM

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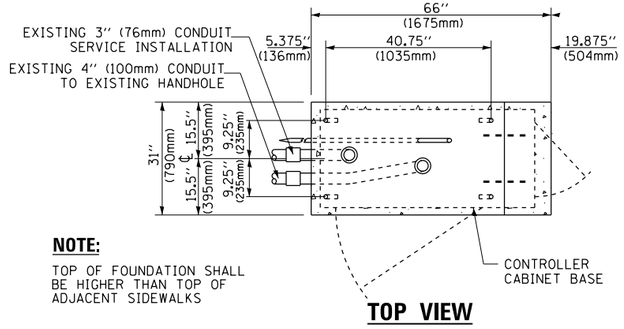
	DRAWN - KMO	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - MJL	REVISED -	
PLOT DATE = 12/9/2016	DATE - 11/23/2016	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL PLAN JEFFERSON STREET (FAP 67 ALT)
(N. 2ND ST. – U.P.R.R.)

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

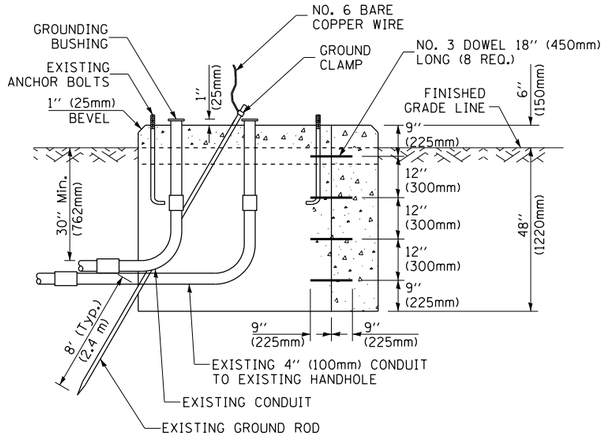
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
67 ALT	D6 2015-5 HSRR	SANGAMON	12	8
		CONTRACT NO. 72H81		
	ILLINOIS FED. AID PROJECT			



NOTE:

TOP OF FOUNDATION SHALL BE HIGHER THAN TOP OF ADJACENT SIDEWALKS

TOP VIEW



MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION FOR GROUND MOUNTED TYPE SUPER P CONTROLLER CABINETS (JEFFERSON ST.)

NOTES:

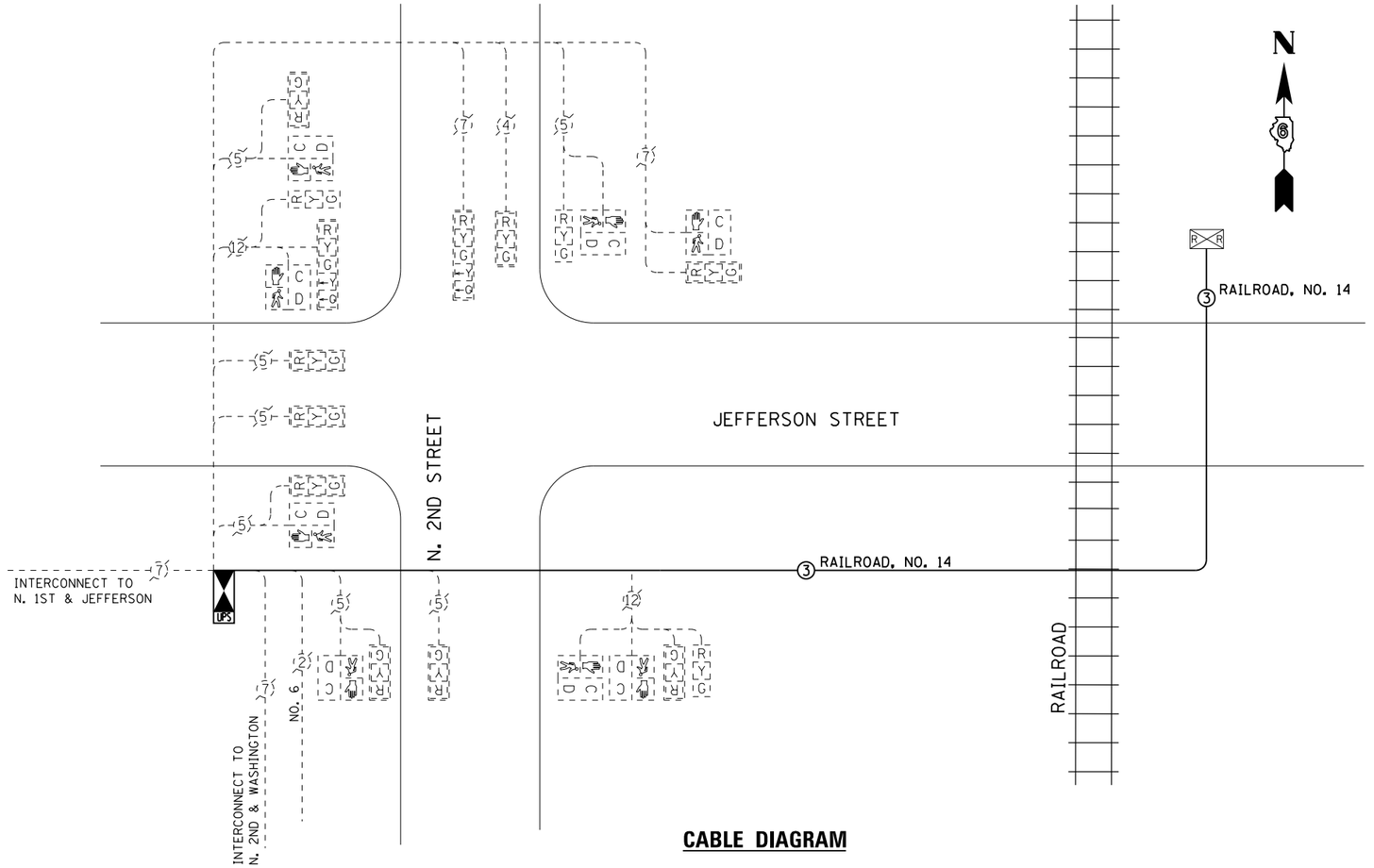
1. FURNISH AND INSTALL A 20 AMP, 1 POLE, 120VAC, 10,000 A/C AT 120VAC CIRCUIT BREAKER FOR DUPLEX RECEPTACLES, AND A U.L. LISTED GROUNDED THREE-WIRE, 120VAC, 20 AMP GROUND FAULT INTERRUPTER TYPE DUPLEX RECEPTACLE (NEMA 5-20R) ALL LOCATED IN THE CONTROLLER CABINET.

2. CONTROLLER SPECIFIED: FULL-ACTUATED CONTROLLER, STANDARD SEQUENCE II, 8 PHASE, IN TYPE SUPER P CABINET.

3. THE TRAFFIC SIGNAL CONTROLLER SHALL HAVE REMOTE MONITORING CAPABILITES INCLUDING ALL NECESSARY PERIPHERAL HARDWARE SUCH AS INTERSECTION MONITOR, ETC. TO ALLOW FOR BOTH REMOTE ACCESS AND AUTOMATIC CONTROLLER REPORTING OF ALARMS. THE COST OF THE NECESSARY ADDITIONAL HARDWARE SHALL BE INCLUDED IN THE UNIT PRICE FOR "RAILROAD, FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)."

4. CARE SHOULD BE TAKEN DURING MODIFICATION OF THE EXISTING FOUNDATION TO NOT DAMAGE THE EXISTING SERVICE CONDUIT AND SERVICE CABLE.

5. STAGING OF TRAFFIC SIGNAL CONTROLLER REPLACEMENT AND CABINET MODIFICATIONS. THE EXISTING TRAFFIC SIGNAL CABINET FOUNDATION IS TO BE MODIFIED AS SHOWN WHILE THE EXISTING TRAFFIC SIGNAL CONTROLLER MAINTAINS ITS' CURRENT OPERATION. ONCE THE FOUNDATION MODIFICATIONS ARE COMPLETE AND ALL NEW CONTROLLER AND CABINET MATERIALS ARE PRESENT, THE CONTROLLER AND CABINET (COMPLETE) ARE TO BE REMOVED AND THE NEW CONTROLLER AND CABINET ARE TO BE INSTALLED. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING TRAFFIC CONTROL AT THE INTERSECTION TO THE SATISFACTION OF THE ENGINEER DURING THE CHANGEOVER. REFER TO TRAFFIC CONTROL STANDARD 701701, SPECIAL.



CABLE DIAGRAM

CABLE DIAGRAM LEGEND

NOTE: ALL ITEMS ARE EXISTING TO REMAIN UNLESS OTHERWISE STATED.

- DENOTES NUMBER OF CONDUCTORS (EXISTING) ALL CABLE NO. 14 (UNLESS OTHERWISE NOTED)
- DENOTES NUMBER OF CONDUCTORS (PROPOSED) ALL CABLE NO. 14 EXCEPT AS INDICATED
- SERVICE INSTALLATION, POLE MTD.
- UPGRADED CONTROLLER AND CABINET
- UPS — PROPOSED UNINTERRUPTIBLE POWER SUPPLY
- EXISTING RAILROAD CONTROL CABINET
- EXISTING PHONE MODEM
- SIGNAL SECTION, 12''
- WALK/DON'T WALK SECTION
- TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC

SCHEDULE OF QUANTITIES

DESCRIPTION	UNIT	QUANTITY
UNDERGROUND CONDUIT, PVC, 2'' DIA.	FOOT	492
UNDERGROUND CONDUIT, PVC, 4'' DIA.	FOOT	88
HANDHOLE	EACH	3
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
TRANSCEIVER	EACH	1
ELECTRIC CABLE IN CONDUIT, RAILROAD, NO. 14 3C	FOOT	654
DRILL EXISTING HANDHOLE	EACH	1
MODIFY EXISTING CONTROLLER FOUNDATION	EACH	1
RAILROAD, FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
REMOVE EXISTING TRAFFIC CONTROLLER AND CABINET	EACH	1
SPARE RAILROAD, FULL ACTUATED CONTROLLER, SPECIAL	EACH	1

FILE NAME = c:\pwworking\kevin.oneill\transportations\dms21587\2943051-SHT-Cable Plan.dgn

AECOM

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	DRAWN - KMO	REVISED -	
PLOT SCALE = 40.0000 '/ in.	CHECKED - MJL	REVISED -	
PLOT DATE = 11/22/2016	DATE - 11/23/2016	REVISED -	

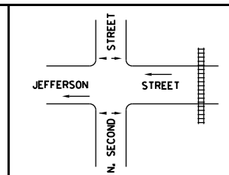
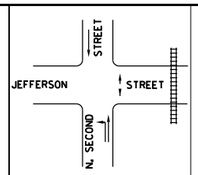
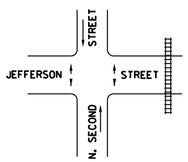
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL CABLE PLAN AND SCHEDULE OF QUANTITIES
JEFFERSON STREET (N. 2ND ST. – U.P.R.R.)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
67 ALT	D6 2015-5 HSRR	SANGAMON	12	9
		CONTRACT NO. 72H81		
	ILLINOIS FED. AID PROJECT			

SEQUENCE OF OPERATION

MOVEMENT													FLASH
PHASE		6				4 + 7			4 + 8				
INTERVAL		1	2	3A	3B	4	5	6	7	8	9A	9B	
CHANGE TO				4 + 7, 4 + 8		0	0	4 + 8			6		
JEFFERSON STREET ALL SIGNALS	W/B	G	G	Y	R	R	R	R	R	R	R	R	R
NORTH SECOND STREET MAST ARM AND FAR LEFT SIGNALS	N/B	R	R	R	R	G_G	G_G	G_Y	G	G	Y	R	R
NORTH SECOND STREET FAR RIGHT AND NEAR RIGHT SIGNALS	N/B	R	R	R	R	G	G	G	G	G	Y	R	R
NORTH SECOND STREET ALL SIGNALS	S/B	R	R	R	R	R	R	R	G	G	Y	R	R
PEDESTRIAN SIGNALS CROSSING N. SECOND STREET ON BOTH SIDES OF JEFFERSON STREET		P	**FH	H	H	H	H	H	H	H	H	H	DARK
PEDESTRIAN SIGNALS CROSSING JEFFERSON STREET ON WEST SIDE OF NORTH SECOND STREET		H	H	H	H	H	H	H	P	**FH	H	H	
PEDESTRIAN SIGNALS CROSSING JEFFERSON STREET ON EAST SIDE OF NORTH SECOND STREET		H	H	H	H	P	**FH	H	P	**FH	H	H	

PHASE 6 SHALL BE PLACED ON RECALL

* = TO APPEAR ONLY UPON PUSHBUTTON ACTUATION

** = FLASHING "DON'T WALK" IS TO TERMINATE AT THE COMPLETION OF THE PEDESTRIAN INTERVAL CLEARANCE.

P = ILLUMINATED PERSON = WALK

FH = ILLUMINATED FLASHING HAND = FLASHING DON'T WALK

H = ILLUMINATED SOLID HAND = DON'T WALK

Θ = THIS "WALK" OR FLASHING "DON'T WALK" INTERVAL MAY FINISH TIMING IN THE BIDIRECTIONAL STRAIGHT THROUGH MOVEMENT IF THE LEFT ARROW TIME IS NOT SUFFICIENT TO COMPLETE "WALK" OR FLASHING "DON'T WALK" INTERVALS.

RAILROAD PREEMPTION SEQUENCE OF OPERATION

						PREEMPTOR NUMBER 2				
CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER	1	4		7						
RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1A	1B	1C	1D	1E	2	3	4	5	CLEAR TO NORMAL SEQUENCE
CHANGE TO RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	2	1C	2	1E	2	3	4	5		
JEFFERSON STREET ALL SIGNALS W/B	G	R	R	R	R	G	Y	R	R	△
NORTH SECOND STREET MAST ARM AND FAR LEFT SIGNALS N/B	R	Y	R	Y	R	R	R	R	G	△
NORTH SECOND STREET FAR RIGHT AND NEAR RIGHT SIGNALS N/B	R	Y	R	Y	R	R	R	R	G	△
NORTH SECOND STREET ALL SIGNALS S/B	R	R	R	Y	R	R	R	R	G	△
PEDESTRIAN SIGNALS CROSSING N. SECOND STREET ON BOTH SIDES OF JEFFERSON STREET	FH	H	H	H	H	H	H	H	H	△
PEDESTRIAN SIGNALS CROSSING JEFFERSON STREET ON WEST SIDE OF NORTH SECOND STREET	H	H	H	FH	H	H	H	H	H	△
PEDESTRIAN SIGNALS CROSSING JEFFERSON STREET ON EAST SIDE OF NORTH SECOND STREET	H	FH	H	FH	H	H	H	H	H	△
									HOLD	

P = ILLUMINATED PERSON = WALK

FH = ILLUMINATED FLASHING HAND = FLASHING DON'T WALK

H = ILLUMINATED SOLID HAND = DON'T WALK

△ = RAILROAD PREEMPTION SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION OR PROPER CLEARANCE INTERVAL TO DISPLAY AN EMERENCY VEHICLE INTERVAL (IF APPLICABLE) 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. RAILROAD PREEMPTION WILL TERMINATE ACTIVE PEDESTRIAN PHASES IMMEDIATELY. PEDESTRIAN CLEARANCES WILL BE ABBREVIATED.
3. THE RAILROAD PREEMPTION SEQUENCE OF OPERATION SHALL HAVE PRIORITY OVER ALL OTHER SEQUENCES OF OPERATION.

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PLOT DATE = 11/22/2016	DATE - 11/23/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL AND RAILROAD SEQUENCES OF OPERATION
JEFFERSON STREET (N. 2ND ST. – U.P.R.R.)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
67 ALT	D6 2015-5 HSRR	SANGAMON	12	10
		CONTRACT NO. 72H81		
	ILLINOIS FED. AID PROJECT			

TRAFFIC SIGNAL LEGEND

PROPOSED HANDHOLE

EX ROW
EX UPRR ROW
PERMANENT EASEMENT
UPRR
JEFFERSON STREET
ONE WAY
℄ JEFFERSON ST.
49
50+00
51
36.4'
88' UC
4"
HANDHOLE
EX ROW
EX UPRR ROW
PERMANENT EASEMENT
JEFFERSON STREET
HANDHOLE
EX ROW
EX UPRR ROW
EX ROW

℄ EXISTING TRACK STA. 50+00.00

STA. 49+54.50
31.70' RT.

44'

FINISHED GRADE

44'

STA. 50+45.50
31.30' RT.

HANDHOLE

30'

30'

5.5' MINIMUM

HANDHOLE

4" HDPE

ELEVATION

N.T.S.

N

0 10 20

GRAPHIC SCALE IN FEET

NOTES:

1. ALL HORIZONTAL DISTANCES TO BE MEASURED AT RIGHT ANGLES FROM THE CENTERLINE OF TRACK.
2. A RAILROAD SIGNAL REPRESENTATIVE MUST BE PRESENT DURING INSTALLATION UNLESS A UPRR SIGNAL REPRESENTATIVE AUTHORIZES OTHERWISE, IN WRITING.

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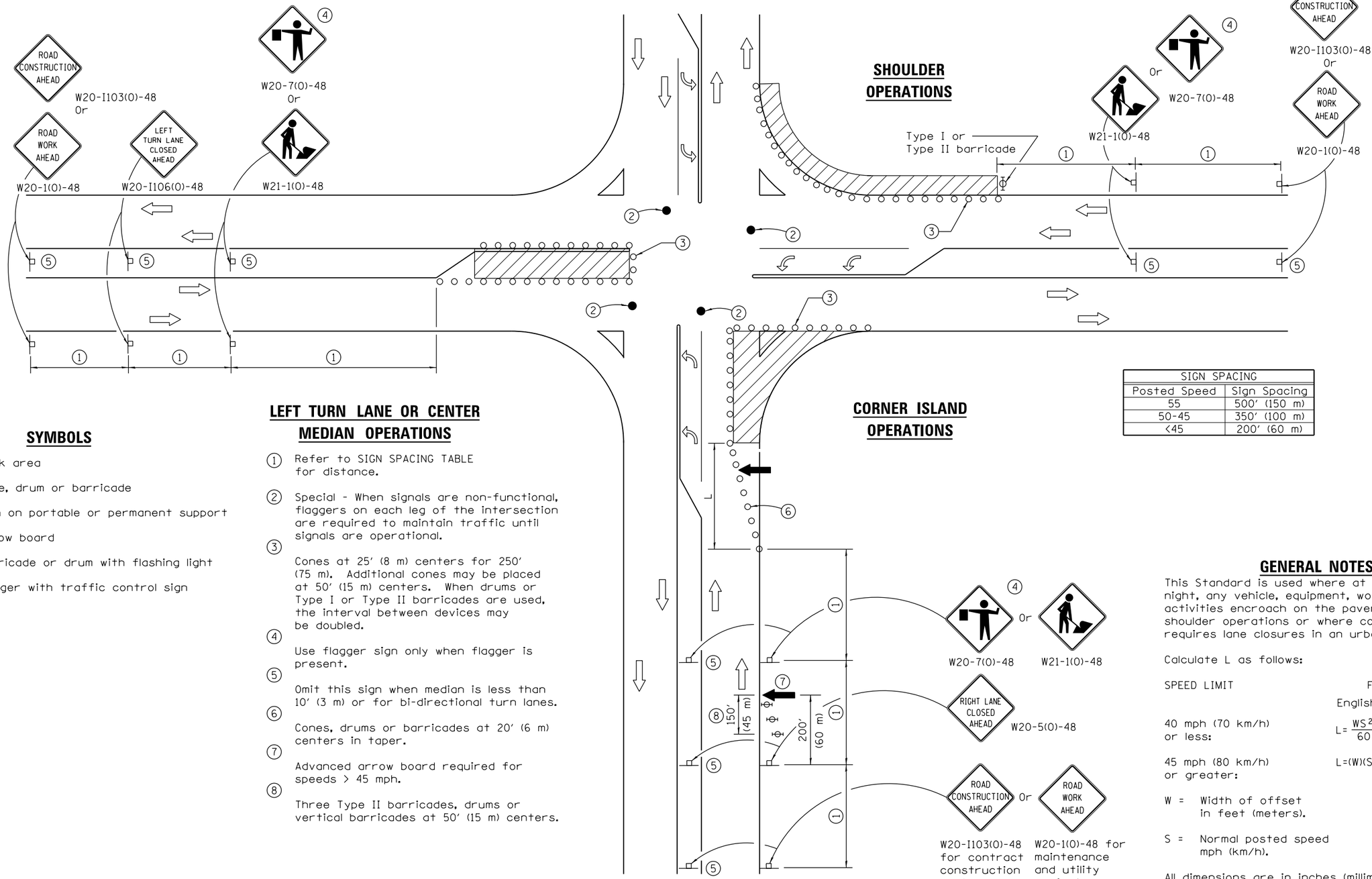
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONDUIT INSTALLATION UNDER RAILROAD TRACKS DETAIL
JEFFERSON STREET (N. 2ND ST. – N. 4TH ST.)

SCALE: 1"=10' | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
67 ALT	D6 2015-5 HSRR	SANGAMON	12	11
		CONTRACT NO. 72H81		
	ILLINOIS FED. AID PROJECT			



SYMBOLS

- Work area
- Cone, drum or barricade
- Sign on portable or permanent support
- Arrow board
- Barricade or drum with flashing light
- Flagger with traffic control sign

LEFT TURN LANE OR CENTER MEDIAN OPERATIONS

(1) Refer to SIGN SPACING TABLE for distance.

(2) Special - When signals are non-functional, flaggers on each leg of the intersection are required to maintain traffic until signals are operational.

(3) Cones at 25′ (8 m) centers for 250′ (75 m). Additional cones may be placed at 50′ (15 m) centers. When drums or Type I or Type II barricades are used, the interval between devices may be doubled.

(4) Use flagger sign only when flagger is present.

(5) Omit this sign when median is less than 10′ (3 m) or for bi-directional turn lanes.

(6) Cones, drums or barricades at 20′ (6 m) centers in taper.

(7) Advanced arrow board required for speeds > 45 mph.

(8) Three Type II barricades, drums or vertical barricades at 50′ (15 m) centers.

SIGN SPACING	
Posted Speed	Sign Spacing
55	500′ (150 m)
50-45	350′ (100 m)
<45	200′ (60 m)

GENERAL NOTES

This Standard is used where at any time, day or night, any vehicle, equipment, workers or their activities encroach on the pavement during shoulder operations or where construction requires lane closures in an urban area.

Calculate L as follows:

SPEED LIMIT	FORMULAS	
	English	(Metric)
40 mph (70 km/h) or less:	$L = \frac{WS^2}{60}$	$L = \frac{WS^2}{150}$
45 mph (80 km/h) or greater:	L=(W)(S)	L=0.65(W)(S)

W = Width of offset in feet (meters).

S = Normal posted speed mph (km/h).

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

TRAFFIC CONTROL AND PROTECTION, STANDARD 701701, SPECIAL DETAIL

FILE NAME = c:\pwworking\kevin.oneill\transportationus\dms18646\2943031r-SHT-interconnect2 TC&P Std 701701 Special.dgn

AECOM

USER NAME = kevin.oneill	DESIGNED - KMO	REVISED -	
	DRAWN - KMO	REVISED -	
PLOT SCALE = 100.0000 ′ / in.	CHECKED - MJL	REVISED -	
PLOT DATE = 11/22/2016	DATE - 11/23/2016	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAIL
TRAFFIC CONTROL AND PROTECTION, STANDARD 701701, SPECIAL

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
67	D6 2015-5 HSRR	SANGAMON	12	12
		CONTRACT NO. 72H81		
	ILLINOIS FED. AID PROJECT			