03-05-2021 LETTING ITEM 167

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

A.P. SECTION COUNTY TOTAL SHEET NO. 126 2020-241-T KANE 8 1

D-91-047-21



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED OCTOBER 20 20 ZO

January 29 2021

engineer of design and anuary 29, 221

DIRECTOR OF HIGHWAYS

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROPOSED

HIGHWAY PLANS

F.A.P. ROUTE 326: IL ROUTE 47

OVER DITCH 3.6 MIS OF US ROUTE 20

PROJECT: NHPP-TZFX(832)

SECTION: 2020–241–T CULVERT REPAIR

KANE COUNTY

C-91-047-21

TRAFFIC DATA

EXISTING ADT = 8800 (2019)

POSTED SPEED LIMIT = 55 MPH

THE IMPROVEMENT IS LOCATED IN THE PLATO TOWNSHIP



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.

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JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS 1-800-892-0123 OR 811

PROJECT MANAGER: ALAIN MIDY (847) 221-3056

LOCATION OF IMPROVEMENT:
SN 045-0229

ALLIE STARKS

STARKS

DUNNELL

DUNNEL

PLATO TOWNSHIP

GROSS LENGTH = 15 FT. = 0.0030 MILE

NET LENGTH = 15 FT. = 0.0030 MILE

CONTRACT NO. 62N10

REV-SEP

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	INDEX OF SHEETS, STANDARDS, AND GENERAL NOTES
3	SUMMARY OF QUANTITIES
4-5	PAVEMENT SLAB DETAILS
6	TRAFFIC CONTROL TYPICAL SECTIONS
7-8	TRAFFIC CONTROL PLAN
9	PAVEMENT MARKING PLAN
10	TEMPORARY LIGHT POLE DETAILS (BE-800)
11-13	TEMPORARY LIGHTING AND TRAFFIC SIGNALS FOR SINGLE LANE STAGING (BE-805)
14	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS (TC-10)
15	DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC-13)
16	ARTERIAL ROAD INFORMATION SIGN (TC-22)

HIGHWAY STANDARDS

STANDARD NO.	DESCRIPTION
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 m) AWAY
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701011-04	OFF-RD MOVING OPERATIONS, 2;, 2W, DAY ONLY
701201-05	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS > 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE 2L, 2W, MOVING OPERATIONS - DAY ONLY
701321-18	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701901-08	TRAFFIC CONTROL DEVICES

GENERAL NOTES

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL J.U.L.I.E. AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES. 48 HOUR NOTIFICATION IS REQUIRED.

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, AND THE PLATO TOWNSHIP.

PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN SCOPE OF THE WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED BASED AT THE UNIT PRICE BID FOR THE WORK.

THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.

ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT NO ADDITIONAL COST TO THE DEPARTMENT.

THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

THE RESIDENT ENGINEER SHALL CONTACT WALTER CZARNY, IDOT'S AREA TRAFFIC FIELD ENGINEER VIA EMAIL AT WALTER.CZARNY@ILLINOIS.GOV A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.

THESE PLANS HAVE BEEN PREPARED FROM NOTES RECEIVED FROM THE BUREAU OF MAINTENANCE.

THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

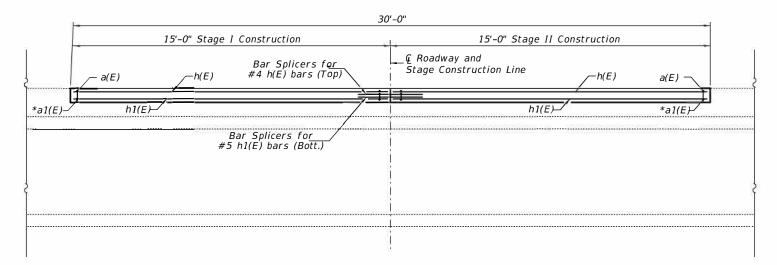
USER NAME = rothjp	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 1/21/2021	DATE -	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

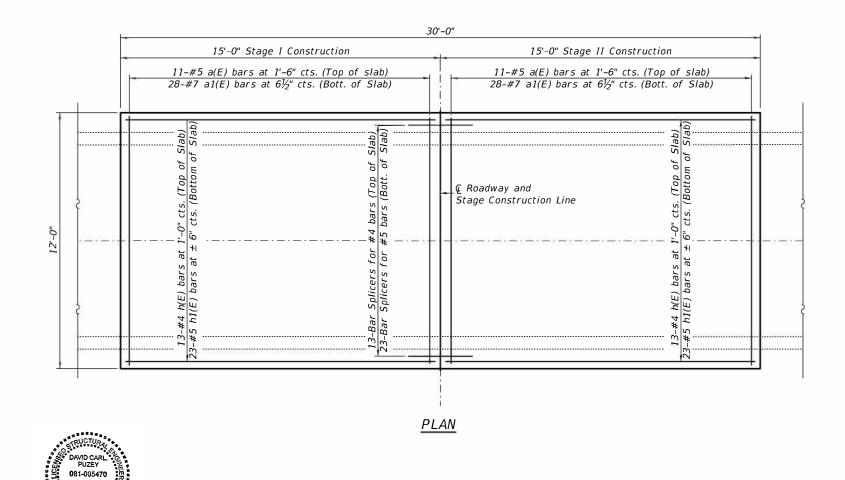
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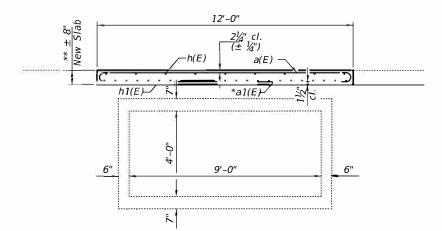
	INDEX OF SHEETS, STATE STANDARDS AND GENERAL NOTES						F.A.P. RTE	SEC ⁻	TION	COUNTY		TOTAL SHEETS	SHEET NO.		
							326	2020-	241-T		KANE	16	2		
	AND GENERAL NOTES											CONTRACT NO. 62N10			
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1900-00 - 101-01 - 10	42101300	PROTECTIVE COAT	SQ YD								* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	588						
2000000 100000000 100000000 100000000											-									
	44000182	HOT-MIX ASPHALT SURFACE REMOVAL, 8"	SO YD	40	40						78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	32	32					
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TOUGOIDO TEMPORAT RUMBLE STRIPS EACH 6 6 6																				
1030094 PAVEMENT MARKING TAPE, TYPE IV 4" FOOT 1528 1528	70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1						Z0030850	TEMPORARY INFORMATION SIGNING	SQFT	51.4	51.4					
70500920 PAVEMENT MARK ING TAPE, TYPE IV 24" FOOT 24 24 4	70106700	TEMPORARY RUMBLE STRIPS	EACH	6	6						_									
TOMODIO TEMPORARY CONCRETE BARRIER	70300904	PAVEMENT MARKING TAPE, TYPE IV 4"	FOOT	1528	1528						_									
78009004 MODIFIED URETHANE PAVEMENT MARKING - FOOT 45 45 45	70300924	PAVEMENT MARKING TAPE, TYPE IV 24"	FOOT	24	24															
LINE 4"	70400100	TEMPORARY CONCRETE BARRIER	F00T	200	200															
70400200 RELOCATE TEMPORARY CONCRETE BARRIER FOOT 200 200 200 200 200 200 200 200 200 20	78009004	MODIFIED URETHANE PAVEMENT MARKING -	FOOT	45	45															
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(NON-REDIRECTIVE), TEST LEVEL 3 ** SPECIALTY ITEM ** SPECIAL	70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	200	200						-									
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PLOT SCALE = 10000000 1/ In CHECKED - REVISED - DEPARTMENT OF TRANSPORTATION SUMMARY OF QUANTITIES CONTRACT NO. 62N						-			S.	TATE OF	ILLINOIS)			 	COUNTY SH	EETS NO.
PLOT DATE = 10/16/2020 DATE - REVISED - SCALE: SHEET NO. 1 OF 1 SHEETS STA. TO STA. FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT		PLOT SCALE = 100,0000 ' / In. CH	HECKED -			-		D								320	2020-241			



LONGITUDINAL SECTION





SECTION THRU BOX

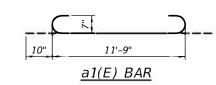
- * Tilt hook of a1(E) bars if necessary to maintain clearance.
- ** Adjust thickness to match top of existing roadway surface. Place top of slab to match existing crown of roadway.

GENERAL NOTES

Plan dimensions and details relative to existing plans are subject to routine variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished based upon the unit price bid for the work.

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.

Reinforcement bars designated (E) shall be epoxy coated.
The deck surface shall have its final finish tined according to Article
420.09(e)(1) of the Standard Specifications. Cost included with Concrete
Superstructure.



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	22	#5	11'-9"	<u> </u>
a1(E)	56	#7	13'-5"	
h(E)	26	#4	14'-9"	4
h1(E)	46	#5	14'-9"	
Ĭ.				j
Bar Sp	olicers		Each	36
	ix Asph ce Remo		Sq. Yd.	40
	rcemen Coated		Pound	2770
Concre Supers	ete structui	re	Cu. Yd.	13.3
Protec	tive Co.	at	Sq. Yd.	40

<u>DESIGN STRESSES</u>

f'c = 3,500 psi fy = 60,000 psi (Reinf.)

EXPIRES 11-30-2022

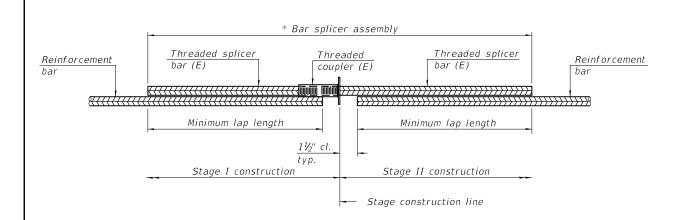
SPRINGFIELD ILLINOIS

DESIGNED - Victor H. Veliz	EXAMINED	Twin A. West	DATE -	DECEMBER 02, 2020
CHECKED - Adrian T. Halloway		ENGINEER OF STRUCTURAL SERVICES		-
DRAWN - Jim Ostermann	PASSED	So Corl Porcy	REVISED	2
CHECKED - VHV ATH	F	ENGINEER OF BRIDES AND STRUCTURES	REVISED	4

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
F.A.P. 326 (IL 47) OVER PINGREE CREEK
SN 045-0229
SHEET NO. 1 OF 2 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEE'
326		KANE	8	4
	76	CONTRACT	NO. 621	N10
	LILINOIS EED	AID BBO IECT		



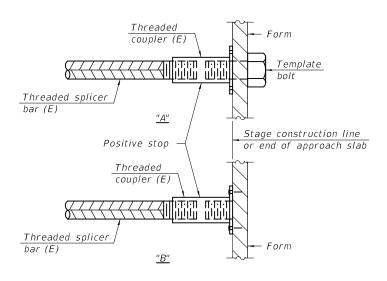
STANDARD BAR SPLICER ASSEMBLY PLAN

(All components shall be provided from one supplier)

Threaded splicer bar length = min. lap length + $1\frac{1}{2}$ " + thread length

* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

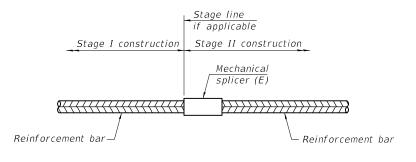
Location	Bar	No. assemblies	Minimum
Location	size	required	lap length
Top of slab	#4	13	2'-7"
Bott. of slab	#5	23	3'-2"



INSTALLATION AND SETTING METHODS

"A": Set bar splicer assembly by means of a template bolt "B": Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E): Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required

Notes:

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.

All reinforcement shall be lapped and tied to the splicer bars.

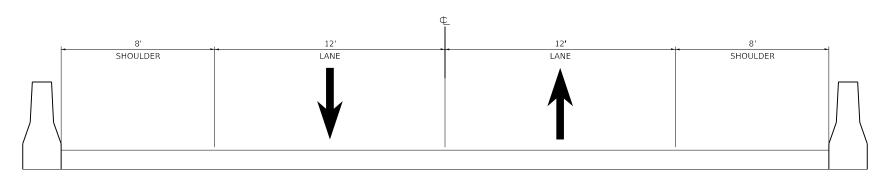
Bar splicer assemblies shall be epoxy coated according to the requirements

for reinforcement bars. See Section 508 of the Standard Specifications. See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1

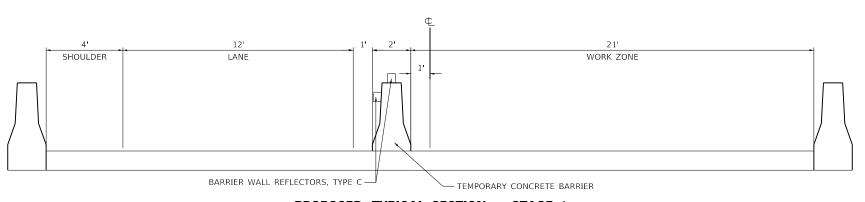
1-1-2020

DESIGNED -	VHV	EXAMINED	I mot A A a Cot	DATE -	DECEMBER 02, 2020	
CHECKED -	ATH	-	ENGINEER OF STRUCTURAL SERVICES			
DRAWN -	Jim Ostermann	PASSED	S. Carl Prayer	REVISED	-	
CHECKED -	\/H\/		ENGINEER OF BRIDGES AND STRUCTURES	REVISED	_	



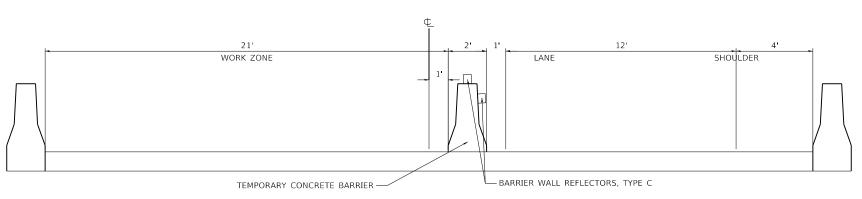
EXISTING TYPICAL SECTION

IL. RT. 47 (3.6 MI S/O US. RT. 20) (LOOKING NORTH)



PROPOSED TYPICAL SECTION - STAGE 1

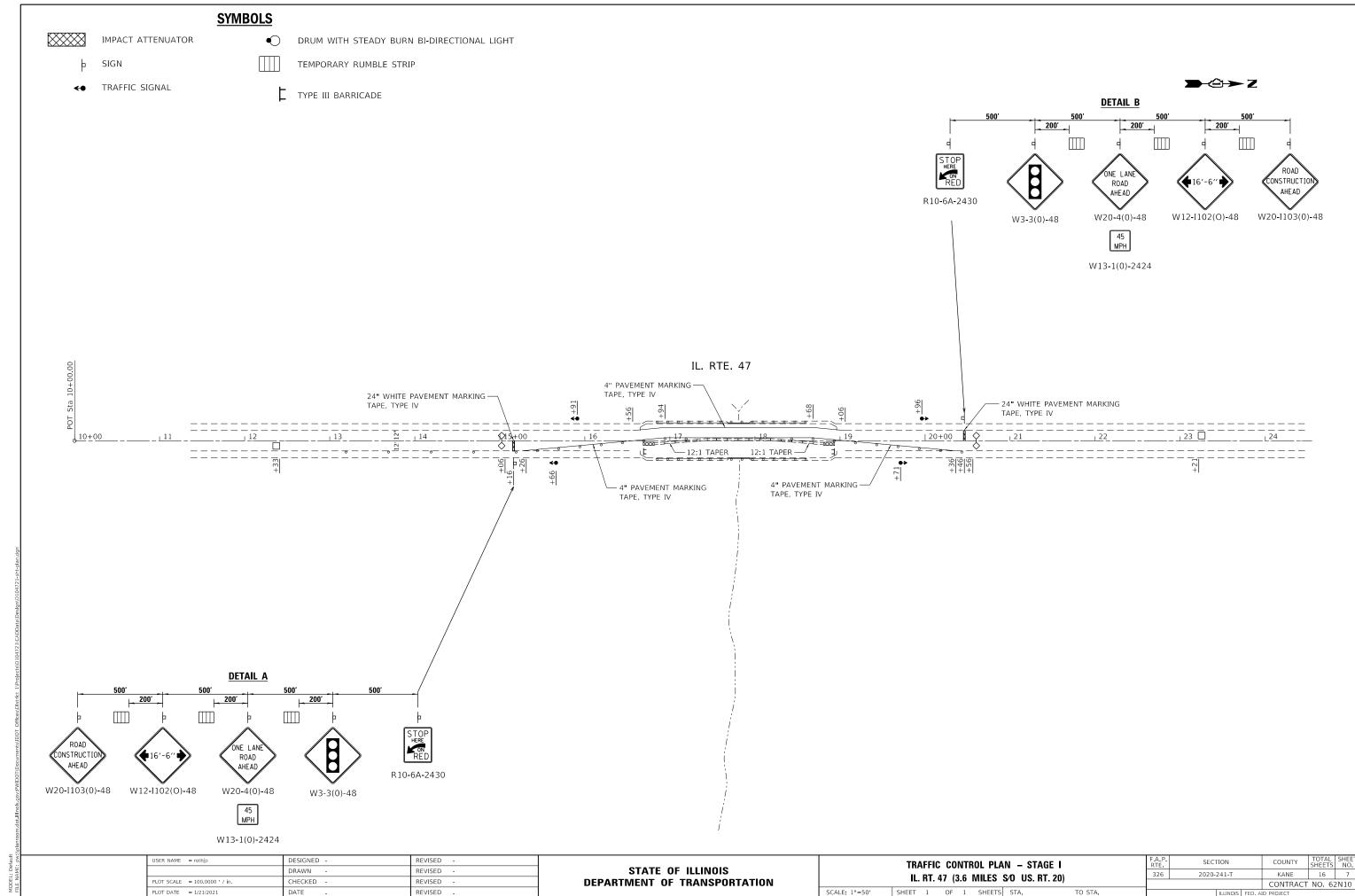
IL. RT. 47 (3.6 MI S/O US. RT. 20) (LOOKING NORTH)

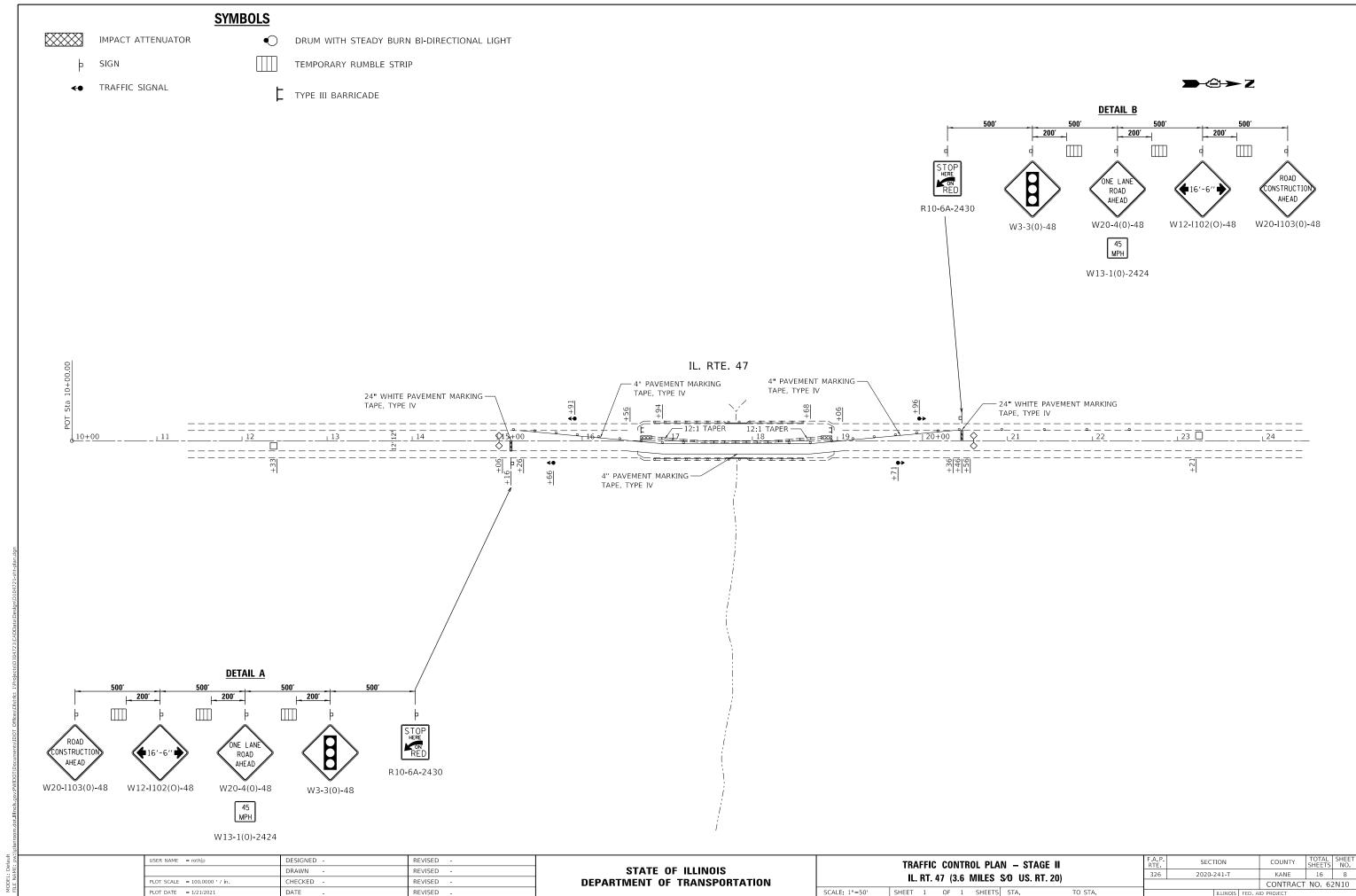


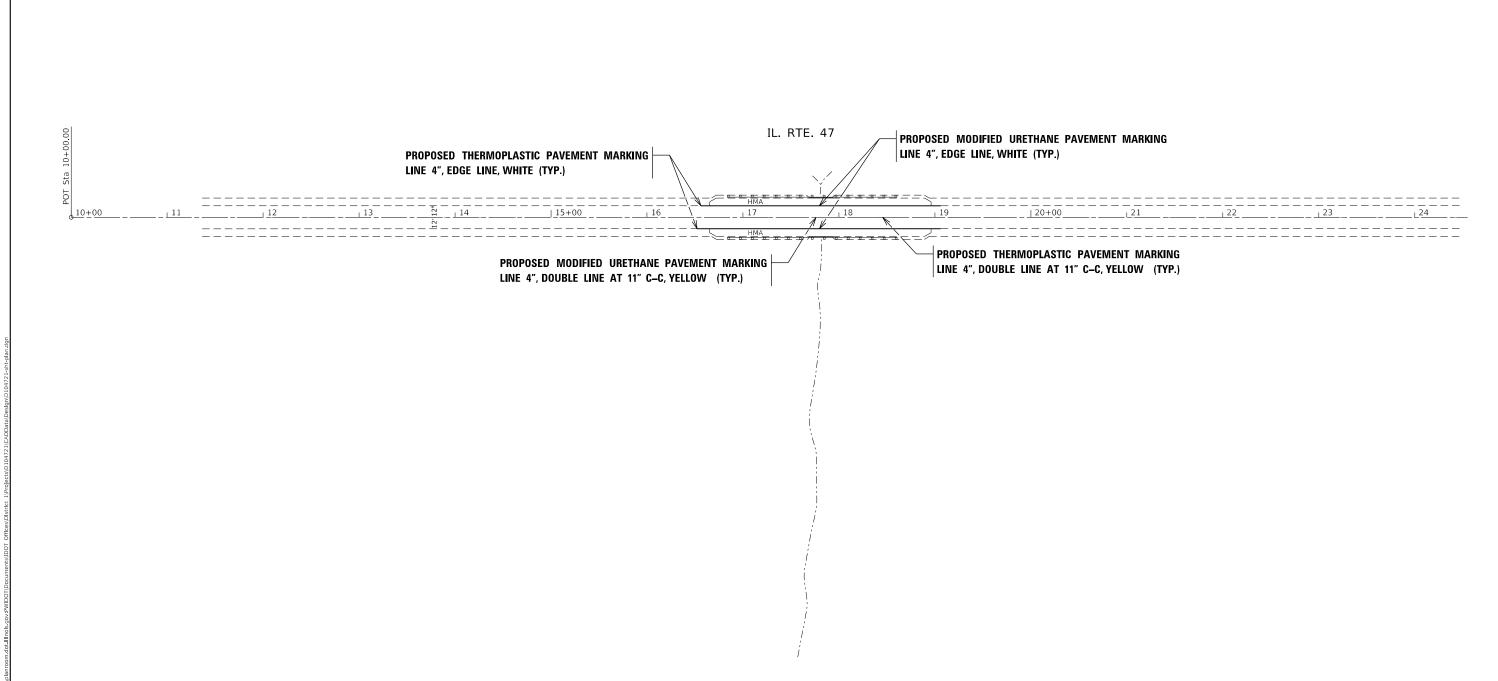
PORPOSED TYPICAL SECTION - STAGE 2

IL. RT. 47 (3.6 MI S/O US. RT. 20) (LOOKING NORTH)

	USER NAME = rothjp	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		TRAFFIC CONTROL TYPICAL SECTIONS				SECTION	COUNTY	TOTAL	SHE
Ţ		DRAWN -	REVISED -						326	2020-241-T	KANE	16	
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -		IL. RT. 47 (3.6 MI S/O US. RT. 20)						CONTRACT NO. 621		N 1
	PLOT DATE = 1/21/2021	DATE -	REVISED -		SCALE:	SHEET 1 OF 1 SHEETS	STA.	TO STA.		ILLINOIS FED. A	D PROJECT		_







MODEL - Default

JSER NAME = rothjp

PLOT DATE = 1/21/2021

PLOT SCALE = 100.0000 / in.

DESIGNED -

CHECKED -

DRAWN

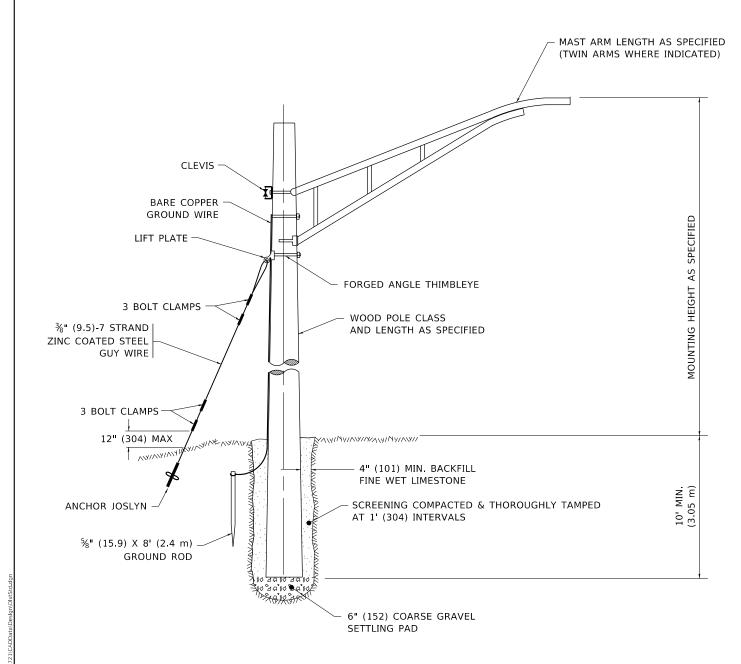
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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.P. SECTION COUNTY TOTAL SHEETS NO. 326 2020-241-T KANE 16 9 CONTRACT NO. 62N10



HEAVY DUTY INSULATED PULLEY CLEVIS WOOD POLE -- BARE COPPER GROUND WIRE EVERY THIRD POLE MESSENGER TIED TO INSULATOR WITH FACTORY FORMED CABLE TIE TO LUMINAIRE GROUND CLAMP -NEUTRAL CONDUCTOR AWG BARE COPPER PHASE CONDUCTOR GROUND WIRE WATERPROOF INSULATION WATERPROOF FUSEHOLDER & FUSE PIERCING TAP CONNECTOR WATERPROOF FUSEHOLDER AND SOLID NEUTRAL SLUG

TEMPORARY LIGHT POLE DETAIL

TEMPORARY LIGHT POLE ATTACHMENT DETAIL

NOTE:

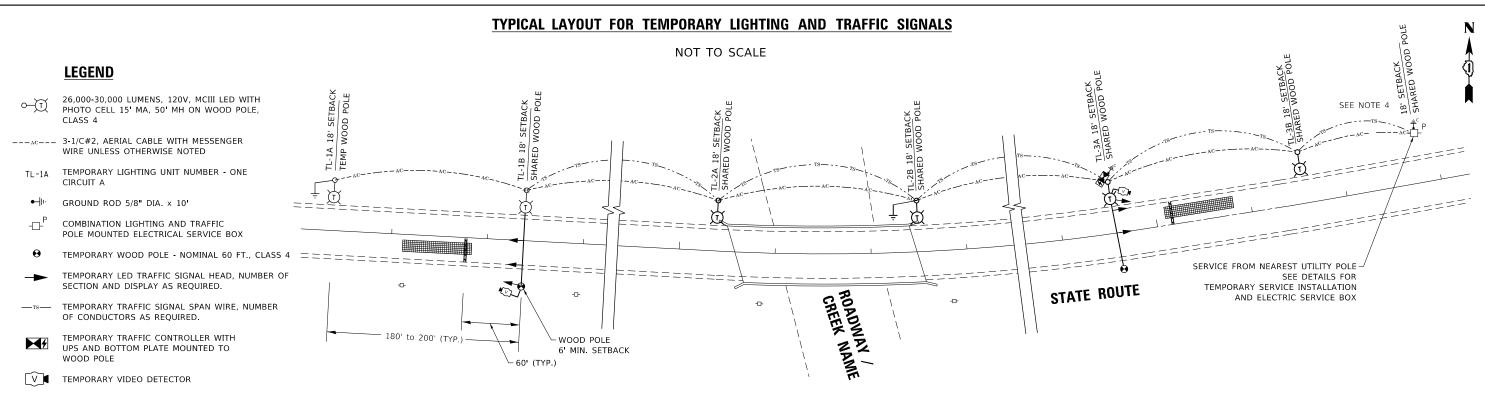
- 1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE INDICATED.
- 2. MAST ARM SHALL BE RATED FOR THE SPECIFIED MOUNTING HEIGHT.

USER NAME = rothjp	DESIGNED -	REVISED - 08-08-03
	DRAWN -	REVISED - R.T. 07-26-16
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 1/21/2021	DATE -	REVISED -

STATE	0F	ILLINOIS
DEPARTMENT	OF 1	TRANSPORTATION

SCALE: NONE

TEMPORARY LIGHT POLE DETAILS						F.A. RTE.	SEC ⁻	ΓΙΟΝ		COUNTY	TOTAL SHEETS	SHEET NO.	
16	:MPO	KAK	ΥI	LIGHT PO	OLE DEI	AILS							
								BE-800			CONTRACT	NO.	
SHEET	1	OF	1	SHEETS	STA.	TO STA.			ILLINOIS	FED. AI	ID PROJECT		



GENERAL NOTES:

1. CONTACT TO THE ELECTRIC UTILITY SHALL BE INITIATED BEFORE THE PRECONSTRUCTION MEETING, AND DOCUMENTATION OF CONTACT SHALL BE PRESENTED AT THAT MEETING. NO PLACEMENT OF POLES WILL BE ALLOWED WITHOUT EVIDENCE OF A SIGNED AGREEMENT WITH THE ELECTRIC UTILITY, FURNISHED TO THE ENGINEER.

2. UNLESS OTHERWISE INDICATED, AND EXCEPT AS OTHERWISE NOTED, THIS STANDARDIZED LAYOUT SHALL APPLY FOR BRIDGES NOT EXCEEDING A 250-FOOT SPAN. FOR BRIDGE SPANS IN EXCESS OF 250 FEET, THE POLES IMMEDIATELY ADJACENT TO THE BRIDGE SHALL BE 100-FOOT POLES (90-FOOT MOUNTING HEIGHT), WITH 56,000-60,000 LUMENS TYPE III LED HIGH-MAST LUMINAIRES AS APPROVED BY THE ENGINEER.

3. THE LAYOUT OF THE TEMPORARY EQUIPMENT WILL VARY BASED ON FIELD CONDITIONS, STAGING, UTILITY IMPACTS, AND THE ELECTRIC SERVICE LOCATION AS COORDINATED WITH THE ELECTRIC UTILITY. THE CONTRACTOR SHALL SUBMIT A PLAN INDICATING THE SETTING OF POLES, TRAFFIC SIGNALS, AND COMBINED SERVICE. THIS PLAN MUST BE APPROVED BY THE ENGINEER BEFORE ANY POLES ARE PLACED

4. THE ELECTRIC SERVICE SHALL BE 240/120V. WHERE 240V SERVICE IS NOT AVAILABLE, THE CONTRACTOR MAY SUBMIT A PROPOSAL FOR 120V SERVICE. DROP CABLE, MAIN BREAKER, AND ALL OTHER SERVICE APPURTENANCES SHALL BE APPROPRIATELY RATED AND INCLUDED REGARDLESS OF THE SERVICE VOLTAGE APPLIED.

5. THE TEMPORARY LIGHTING AND TRAFFIC SIGNAL INSTALLATION SHALL SHARE ANY COMMON ELEMENTS SUCH AS WOOD POLES, ELECTRICAL SERVICE, ELECTRIC SERVICE BOX, CABLE, ETC. THE CONTRACTOR SHALL COORDINATE TEMPORARY LIGHTING AND TRAFFIC SIGNAL INSTALLATIONS.

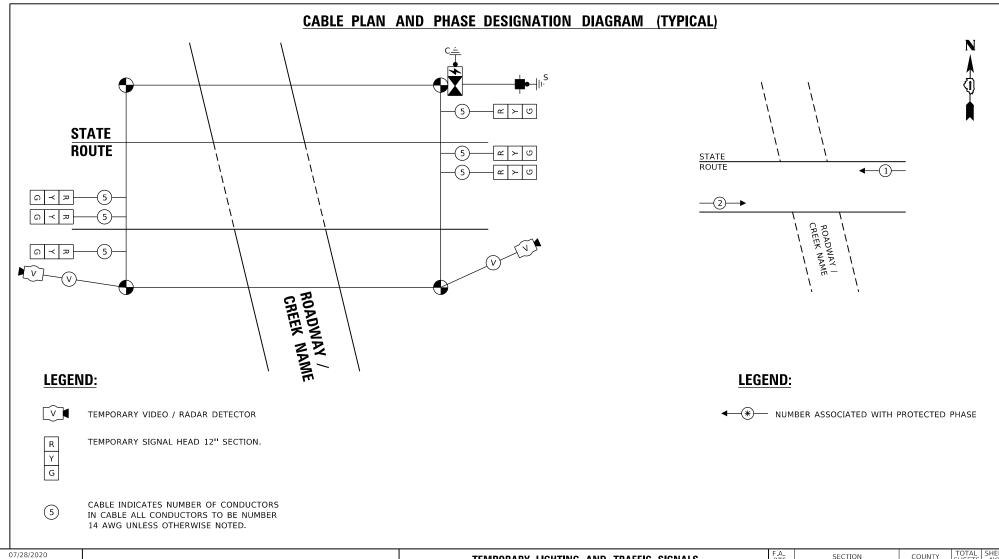
6. THE LIGHT POLE SETBACK FROM THE EDGE OF TRAVEL PAVEMENT SHALL BE 18 FT. UNLESS THE LIGHT POLE IS BEHIND GUARDRAIL. THE LIGHT POLES INSTALLED BEHIND THE GUARDRAIL OR BARRIER WALL SHOULD HAVE AT LEAST 8 FT. SETBACK FROM THE BACK OF THE SHOULDER AND OR AS DIRECTED BY THE ENGINEER.

7. EACH LIGHTING UNIT SHALL BE CONTROLLED BY A PHOTO CELL MOUNTED ON EACH LUMINAIRE WITH THE LIGHTING CIRCUIT FED FROM THE TEMPORARY SERVICE DISCONNECT BOX. OTHER MEANS OF LUMINAIRE CONTROL CAN BE CONSIDERED IF APPROVED BY THE ENGINEER.

8. THE CONTRACTOR SHALL SPLICE AERIAL CABLE AT THE LIGHT POLE USING HEAT SHRINKABLE CAPS WITH THE FACTORY APPLIED WATERPROOF SEALENT OR AN APPROVED UL LISTED AERIAL TAP DEVICE.

9. ALL AREAS DISTURBED UNDER THIS CONTRACT SHALL BE RESTORED TO THE ORIGINAL CONDITION OR BETTER, TO THE SATISFACTION OF THE ENGINEER.

10. THIS LAYOUT IS ONLY FOR SINGLE LANE STAGING WITHOUT PRIVATE DRIVEWAYS WITHIN SINGLE LANE WORK ZONE.



SCALE: NONE

| USER NAME | = rothip | DESIGNED | - REVISED | - 07/28/2020 | | ORAWN | - REVISED | - | ORAWN | - REVISED | - | ORAWN | - REVISED | - | ORAWN | -
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY LIGHTING AND TRAFFIC SIGNALS

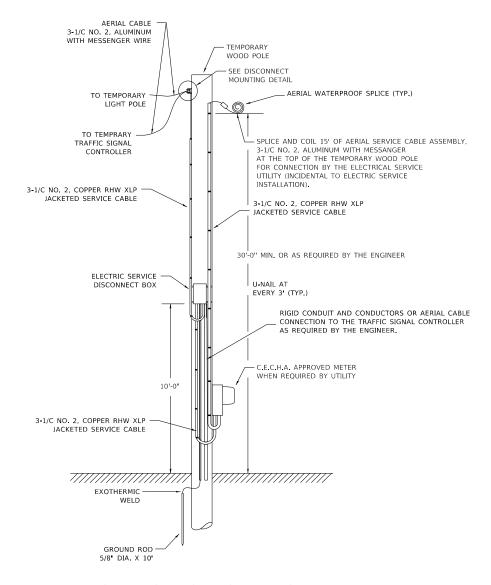
FOR SINGLE LANE STAGING

SHEET 1 OF 3 SHEETS STA. TO STA.

F.A. SECTION COUNTY TOTAL SHEETS NO.

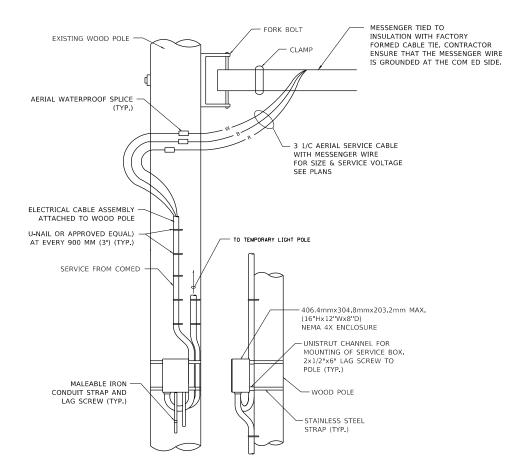
BE-805 CONTRACT NO.

BE-805 CONTRACT NO.



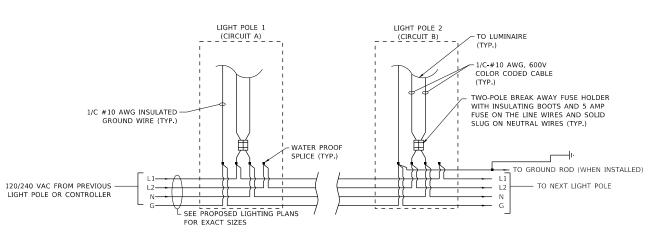
TEMPORARY SERVICE INSTALLATION DETAIL

NOT TO SCALE



DISCONNET MOUNTING DETAIL

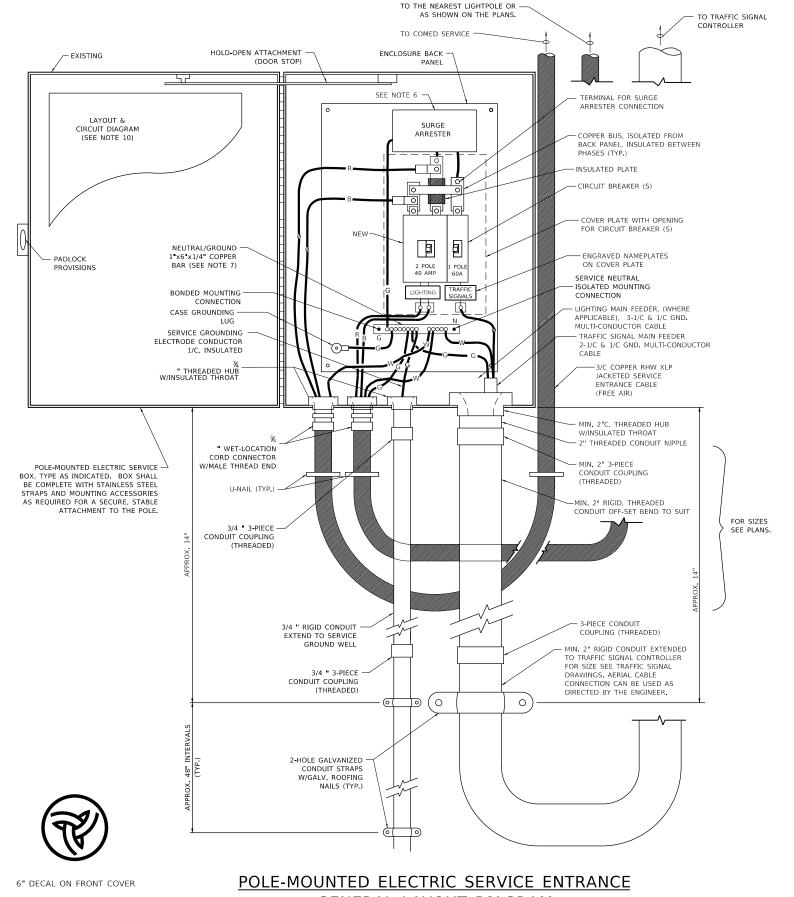
NOT TO SCALE



LIGHT POLE WIRING DETAIL

NOT TO SCALE

USER NAME = rothjp	DESIGNED - MP	REVISED -		TI	EMPORARY LIGHTING AND T	RAFFIC SIGNALS	F.A.	SECTION	COUNTY TOT	TAL SHEF	ET
	DRAWN -	REVISED -	STATE OF ILLINOIS	''			TOTE:		5112	2213 110	-
PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		FOR SINGLE LANE ST	AGING		BE-805	CONTRACT NC	J	\neg
PLOT DATE = 1/21/2021	DATE - 01/14/10	REVISED -		SCALE: NONE	SHEET 2 OF 3 SHEETS ST	ra. to sta.		ILLINOIS FED. AI	ID PROJECT		\neg

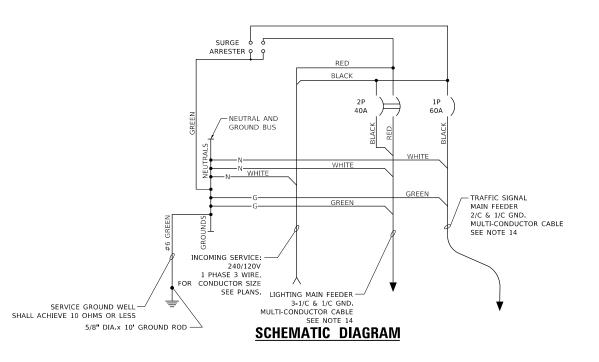


NOTES:

- ELECTRIC SERVICE SHALL BE OF THE VOLTAGE INDICATED OR DESIGNATED BY THE ENGINEER, AND SERVICE DROP CABLE SHALL BE COMPATIBLE WITH THE SERVICE ACCORDINGLY. SOME INSTALLATIONS MAY CALL FOR SERVICE ENTRANCE EQUIPMENT SUITABLE FOR 3-WIRE SERVICE EVEN THOUGH INITIALLY WIRED FOR 2-WIRE SERVICE.
- 2. THE POLE-MOUNTED ELECTRIC SERVICE BOX SHALL BE CONFIGURED AND FULLY EQUIPPED FOR 240/120V 3W SERVICE, COMPLETE WITH LIGHTING MAIN BREAKER AND TRAFFIC SIGNALS MAIN BREAKER AS REQUIRED.
- 3. THE ELECTRIC SERVICE EQUIPMENT ASSEMBLY SHALL BE UL LISTED AS SUITABLE FOR USE AS SERVICE ENTRANCE
- 4. THE ELECTRIC SERVICE EQUIPMENT ENCLOSURE SHALL BE NEMA 4X STAINLESS STEEL, NOMINALLY 12"W X 16"H X 8"D, WITH A PIANO-HINGED DOOR, STEEL BACK PANEL, FAST-ACTING STAINLESS STEEL ENCLOSURE CLAMPS, PADLOCK PROVISIONS AND DOOR STOP, HOFFMAN CATALOG NO. A-16H1208SS6LP/A-16 P12/A-DSTOPK/C-PMK12, OR APPROVED EQUAL.
- 5. CIRCUIT BREAKERS SHALL BE THERMAL MAGNETIC BOLT-ON TYPE WITH A MINIMUM INTERRUPTING CAPACITY OF 25,000 SYMMETRICAL AMPERES AT 240 VOLTS. THEY SHALL BE LOCKABLE IN THE "OFF" POSITION FOR COMPLIANCE WITH OSHA LOCK-OUT/ TAG-OUT REQUIREMENTS. HANDLES SHALL BE TRIP FREE.
- 6. THE SURGE PROTECTOR SHALL BE SUITABLE FOR THE SERVICE VOLTAGE SINGLE PHASE 60HZ AC. WITH A SURGE ENERGY CAPABILITY OF 2160 JOULES OR BETTER AT 8/20 MICRO-SECONDS, RATED -40 TO 60 DEGREES C., WITH LED OPERATING INDICATORS, AND SHALL BE UL LISTED PER UL 1449, CUTLER-HAMMER CM0V230L065XST OR APPROVED EOUAL.

SCALE: NONE

- BUS BARS, CONNECTORS, AND LUGS SHALL BE COPPER, INSULATED AND ISOLATED, AND CONFIGURED TO PREVENT SHORTED CONDITIONS FROM TIGHTENING TERMINATIONS, ETC. THE OVERALL BUS SECTION SHALL BE CONFIGURED BEHIND AN INSULATING BARRIER SHIELD WHICH IS REMOVABLE FOR ACCESS TO CONNECTIONS, OR THE ASSEMBLY SHALL BE A MANUFACTURED SPECIALTY PANELBOARD, CUTLER-HAMMER PRL2A OR APPROVED
- 8. THE COMBINATION GROUND AND NEUTRAL BAR SHALL BE CONFIGURED WITH SEPARATE GROUND AND NEUTRAL SECTIONS
 AND SPARE TERMINALS AS INDICATED. THE HEADS OF GROUND SCREWS
 SHALL BE PAINTED GREEN. THE HEADS OF REUTRAL SCREWS SHALL
 BE PAINTED WHITE. THE SERVICE NEUTRAL AND SERVICE GROUNDING FLECTRODE CONDUCTOR SHALL BE TERMINATED ADJACENT TO EACH OTHER AT THE DIVIDE BETWEEN THE SECTIONS AND WIRING SHALL BE TERMINATED ONLY UPON THE APPROPRIATE SECTION.
- THE WIRING TERMINALS, INCLUDING THE GROUND/NEUTRAL BAR SHALL BE ARRANGED TO PROVIDE ADEQUATE ROOM FOR PERFORMING FIELD TERMINATIONS.
- 10. A PLASTIC LAMINATED LAYOUT AND CIRCUIT DIAGRAM SHALL BE MECHANICALLY SECURED TO THE INTERIOR SIDE OF THE ENCLOSURE DOOR.
- 11. A 2-COLOR ENGRAVED PLASTIC NAMEPLATE, ATTACHED WITH SCREWS, AND ENGRAVED AS INDICATED, SHALL BE PROVIDED FOR EACH MAIN
- 12. LUGS AND CONNECTORS SHALL BE RATED FOR 75 C CONDUCTOR.
- 13. THE EXACT MOUNTING HEIGHT OF THE BOX SHALL BE FIELD DETERMINED TO AVOID OBSTRUCTIONS AND PUBLIC ACCESS. TYPICAL HEIGHT SHALL BE APPROXIMATELY 10 FEET ABOVE GRADE.



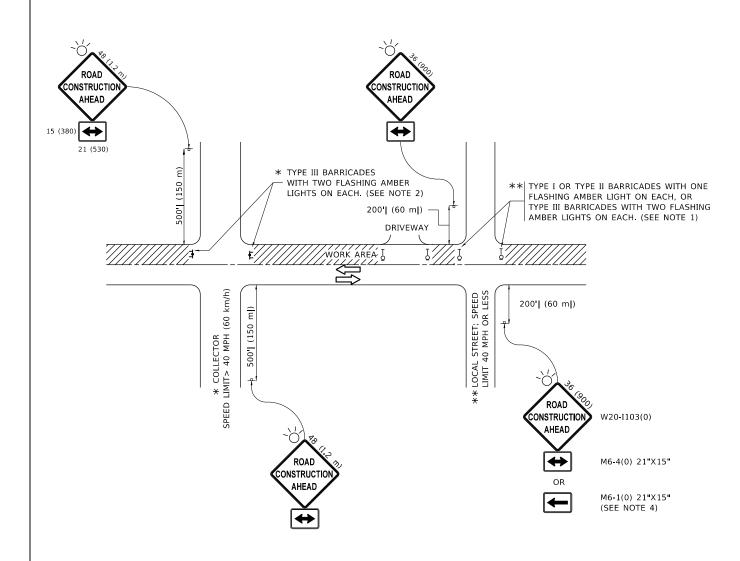
GENERAL LAYOUT DIAGRAM

NOT TO SCALE

USER NAME = rothjp	DESIGNED - MP	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 1/21/2021	DATE - 01/14/10	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

TE	MPOR	ARY	LIGH	ITIN	G AND	TRAFFIC	SIGNALS	F.A. RTE	SEC	TION		COUNTY	TOTAL SHEETS	SHEE NO.
		FNR	CII	nei i	FIANE	STACING								
	FOR SINGLE LANE STAGING						BE-80	5		CONTRACT	NO.			
	SHEET	3	OF	3	SHEETS	STA.	TO STA.			ILLINOIS	FED. A	ID PROJECT		



NOTES:

- 1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
- b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
- THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY
 b) BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION
 OF THE CLOSED PORTION.
- 3. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710)
- WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE
 4. SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL
 BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

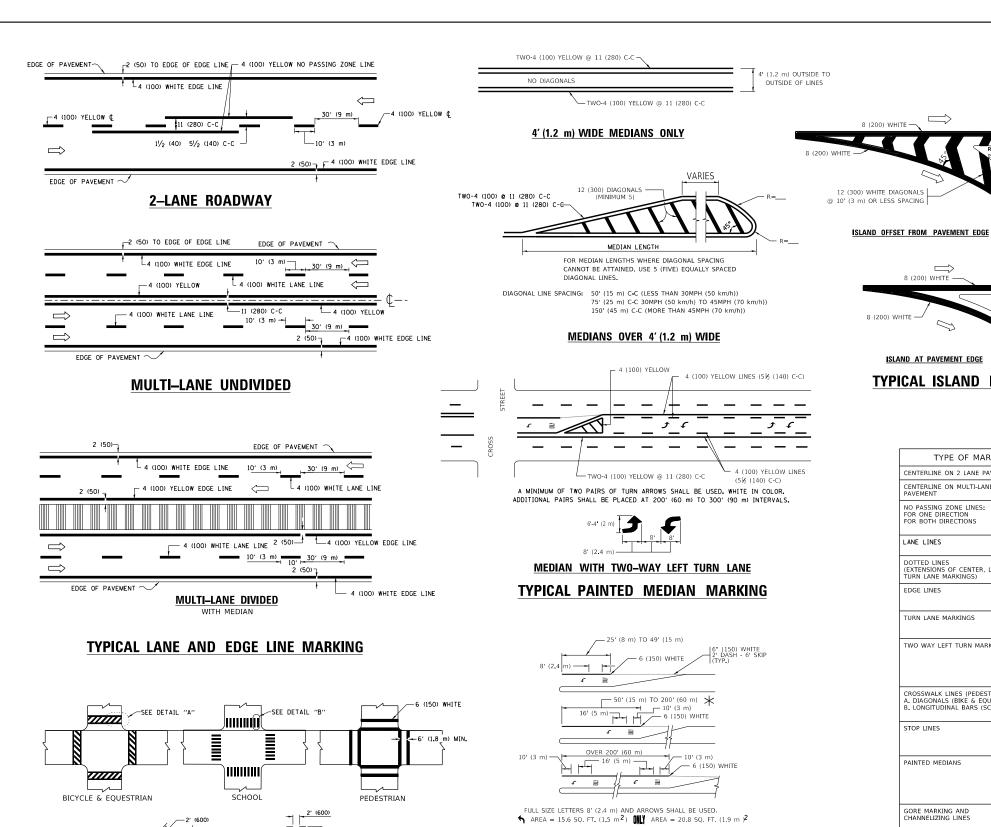
- 5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
- 6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER
- 7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

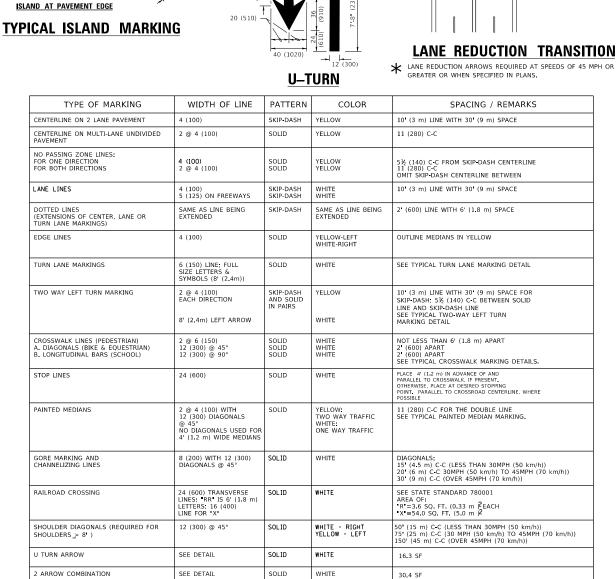
All dimensions are in inches (millimeters) unless otherwise shown.

USER NAME = rothjp	DESIGNED - L.H.A.	REVISED - A. HOUSEH 10-15-96
	DRAWN -	REVISED - T. RAMMACHER 01-06-00
PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED - A. SCHUETZE 07-01-13
PLOT DATE = 1/21/2021	DATE - 06-89	REVISED A SCHUETZE 09-15-16

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

s						TION FOR DRIVEWAYS
SCALE: NONE	SHEET :	l OF	1	SHEETS	STA.	TO STA.





COMBINATION

LEFT AND U-TURN

32 R (810)

— 2 (50)

2 (50)

RAISED

ISLAND

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

SCALE: NONE

All dimensions are in inches (millimeters unless otherwise shown.

D(FT)

665

SPEED LIMIT

50

55

USER NAME = rothjp	DESIGNED	-	EVERS	REVISED	-	C. JUCIUS 09-09-09
	DRAWN	-		REVISED	-	C. JUCIUS 07-01-13
PLOT SCALE = 100.0000 ' / in.	CHECKED	-		REVISED	-	C. JUCIUS 12-21-15
PLOT DATE = 1/21/2021	DATE	-	03-19-90	REVISED	_	C. JUCIUS 04-12-16

-12 (300) WHITE

DETAIL "B"

-6 (150) WHITE

TYPICAL CROSSWALK MARKING

* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF

DETAIL "A"

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

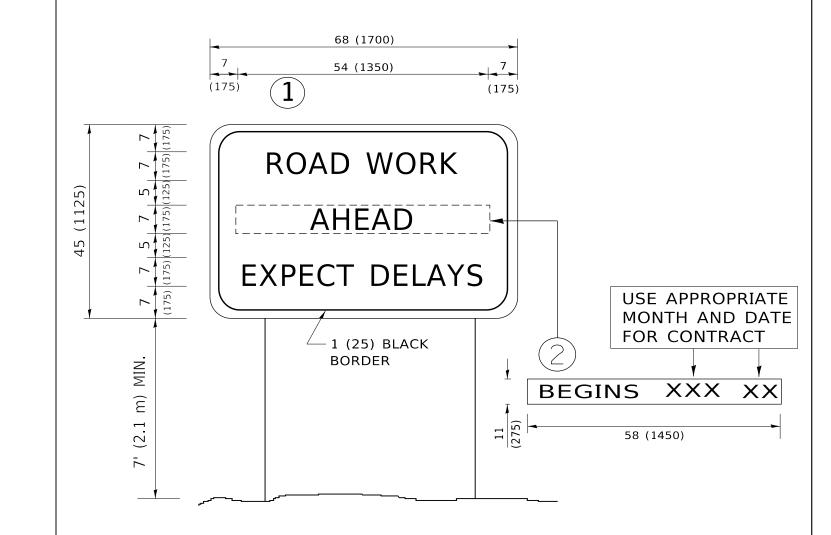
TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

ARROW - "ONLY".

		DIS	TRICT O	NE		F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TYPICAL PAVEMENT MARKINGS						2020-241-T	KANE	16	15
	TIFICAL FAVLIVILIVI IVIANKIIVOS						TC-13	CONTRAC	T NO. 62	N10
E	SHEET 1	OF 2	SHEETS	STA.	TO STA.		ILLINOIS FE	ED. AID PROJECT		



NOTES:

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

SCALE: NONE

7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

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

USER NAME = rothjp	DESIGNED -	REVISED	-	R. MIRS 09-15-97
	DRAWN -	REVISED	-	R. MIRS 12-11-97
PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED	- T.	RAMMACHER 02-02-9
PLOT DATE = 1/21/2021	DATE -	REVISED	-	C. JUCIUS 01-31-07

		Α	RT	ERIAL RO	AD		F.A.P. RTE	SECT
		INE	n R	MATION	SIGN		326	2020-
		IIVI V	UIII	WATION	JIGIN			TC-22
SHEET	1	OF	1	SHEETS	STA.	TO STA.		