0

09-20-2019 LETTING ITEM 029

STATE OF ILLINOIS

PROPOSED

HIGHWAY PLANS

DEPARTMENT OF TRANSPORTATION

D-93-101-19



FUNCTIONAL CLASSIFICATION

RURAL MINOT ARTERIAL F.A.P. ROUTE 840 (IL 49) 2017 ADT = 1400 P.V. 77.2% S.U. 10.7% M.U. 12.1%

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

REGIONAL ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

STANDARDS

INDEX OF SHEETS

TYPICAL SECTION SHOULDER DETAILS

COVER SHEET
GENERAL NOTES
SUMMARY OF QUANTITIES

MISCELLANEOUS DETAILS

SITE PLAN - EXISTING DETAILS SITE PLAN - PROPOSED DETAILS

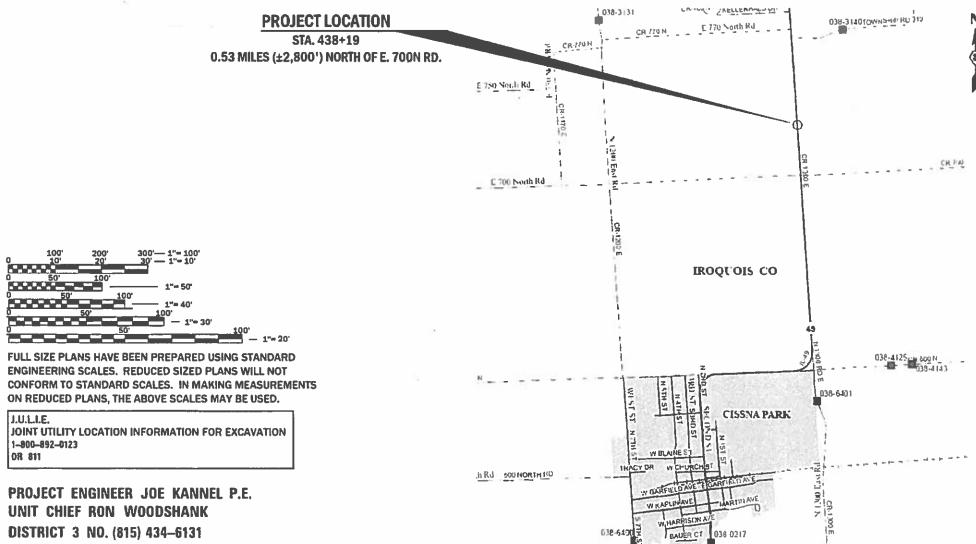
000001-07 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS 001001-02 AREAS OF REINFORCEMENT BARS DECIMAL OF AN INCH AND OF A FOOT 001006 701001-02 OFF-ROAD OPERATIONS 2L, 2W, MORE THAN 15' (4.5 m) AWAY OFF-ROAD OPERATIONS 2L, 2W, 15" (4.5 m) TO 24" (600 mm) FROM 701006-05 PAVEMENT EDGE 701201-05 LANE CLOSURE, 2L. 2W, DAY ONLY, FOR SPEEDS 2 45 MPH 701206-05 LANE CLOSURE, 2L, 2W, NIGHT ONLY, FOR SPEEDS 2 45 MPH 701301-04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS 701321-17 LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER 701326-04 LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS 2 45 MPH 701901-08 TRAFFIC CONTROL DEVICES TEMPORARY CONCRETE BARRIER

TRAFFIC CONTROL AND PROTECTION, STANDARD 701321

F.A.P. ROUTE 840 (IL 49) SECTION (135)T STORM SEWER REPLACEMENT **IROQUOIS COUNTY**

C-93-124-19

POINT LOCATION



REV. 8/20/19

CONTRACT NO. 66K34

GENERAL NOTES

BEFORE ORDERING PIPE CULVERTS OR PIPE DRAINS, THE CONTRACTOR SHALL CONSULT THE ENGINEER FOR EXACT LENGTHS.

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

SEEDING WILL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET, OR IN AN UNTILLABLE CONDITION. LOCATIONS TO BE SEEDED WILL BE DETERMINED BY THE ENGINEER.

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

ALL ELEVATIONS REFERRING TO U.S.G.S. MEAN SEA LEVEL DATUM.

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

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

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

GRANULAR MATERIALS	2.05	TONS / CU YD

THE WORK REQUIRED TO CONNECT ANY SEWER TO AN EXISTING DRAINAGE STRUCTURE OR PIPE WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICE BID FOR THE SEWER ITEMS.

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

EASTERN ILLINI ELECTRIC CORP. FRONTIER
METRO COMMUNICATIONS

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

COMMITMENTS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DISTRICT THREE
AS BUILT INFORMATION

SUPERVISING CONSTRUCTION FIELD ENGINEER

RESIDENT ENGINEER / TECHNICIAN

START & END DATES OF CONSTRUCTION:

INSPECTORS:

SCALE:

EXAMINED BY:

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT THREE

DISTRICT STUDIES & PLANS ENGINEE

7-9-19

PREPARED BY:

DATE:

iv: Zwal

STRUCTION ENGINEER

DISTRICT MATERIALS ENGINEER

DISTRICT OPERATIONS ENGINEER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

 GENERAL NOTES
 F A.P. RTE.
 SECTION
 COUNTY SHEETS NO.
 SHEETS NO.

 840
 (135)T
 IROQUOIS
 15
 2

 CONTRACT NO. 66K34

MODEL: Detault

				CONSTRUCTION CODE
				CONTRACT MAINTANCE
				100% STATE
				ROADWAY
CODE			TOTAL	0043
NO.	ITEM	UNIT	QUANTITY	RURAL
20200100	EARTH EXCAVATION	CU YD	569	569
20700220	POROUS GRANULAR EMBANKMENT	CU YD	120	120
20700220	TOROGS GIVINGENT ERDANGENT	60 15	120	120
25000210	SEEDING, CLASS 2A	ACRE	0.05	0.05
23000210	SEEDING, CEASS ZA	ACILE	0.03	0.03
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	4	4
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	4	4
23000300		. 33.13	·	·
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	4	4
25100630	EROSION CONTROL BLANKET	SQ YD	220	220
44200050	WELDED WIRE REINFORCEMENT	SQ YD	150	150
44201037	CLASS B PATCHES, TYPE IV, 15 INCH	SQ YD	150	150
44201299	DOWEL BARS 1 1/2"	EACH	48	48
44213200	SAW CUTS	FOOT	364	364
44213204	TIE BARS 3/4"	EACH	18	18
48203037	HOT-MIX ASPHALT SHOULDERS, 10"	SQ YD	421	421
52200020	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	697	697

Δ SPECIALITY ITEMS

USER NAME = MARINIEJ	DESIGNED -	RW	REVISED -
	DRAWN -	RW	REVISED -
PLOT SCALE = 3.9370 ' / mm	CHECKED -	TG	REVISED -
PLOT DATE = 7/9/2019	DATE -	6/6/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

		F.A.P. RTE	SECT	ION		COUNTY	TOTAL SHEETS	SHEET NO.
	SUMMARY OF QUANTITIES	840	840 (135)T		IROQUOIS	15	3	
١						CONTRACT	NO. 66	5K34
	SCALE: SHEET 1 OF 3 SHEETS STA. TO STA.			ILLINOIS	FED. AI	D PROJECT		

CONSTRUC	TION	CODE
CONTRACT	MAIN	TANCE
100%	STAT	Е
RΩΔ	DWAY	

				ROADWAY
CODE			TOTAL	0043
NO.	ITEM	UNIT	QUANTITY	RURAL
61133200	FIELD TILE JUNCTION VAULTS, 3' DIA.	EACH	2	2
61140600	STORM SEWERS (SPECIAL), 18"	FOOT	104	104
67100100	MOBILIZATION	L SUM	1	1
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1
70100455	TRAFFIC CONTROL AND PROTECTION, STANDARD 701206	L SUM	1	1
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	1
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1
70300100	SHORT TERM PAVEMENT MARKING	FOOT	62	62
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	20	20
70400100	TEMPORARY CONCRETE BARRIER	FOOT	300	300
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	300	300
70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2
70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2

SCALE:

MODEL: Default

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	DRAWN -	RW	REVISED -
PLOT SCALE = 100.0000 / in.	CHECKED -	TG	REVISED -
PLOT DATE = 7/8/2019	DATE -	6/6/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

	F.A.P. SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
SUMMARY OF QUANTITIES		840 (135)T		15	4
			CONTRACT	NO. 66	K34
SHEET 2 OF 3 SHEETS STA. TO STA.		ILLINOIS FED. AI	D PROJECT		

CONSTRUCTION CODE

CONTRACT MAINTANCE

100% STATE

				100% STATE
				ROADWAY
CODE			TOTAL	0043
NO.	ITEM	UNIT	QUANTITY	RURAL
78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	1240	1240
78001130	PAINT PAVEMENT MARKING - LINE 6"	FOOT	310	310
X0324079	EXISTING FIELD TILE REMOVAL	FOOT	107	107
X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	487	487
X0358300	REMOVE AND RELAY END SECTIONS	EACH	1	1
X2130010	EXPLORATION TRENCH, SPECIAL	FOOT	200	200
X5000015	REMOVE AND RE-INSTALL PIPE CULVERTS	FOOT	8	8
			_	
Z0017099	DOWEL BAR ASSEMBLY	EACH	6	6
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	42	42

SCALE:

Δ SPECIALITY ITEMS

 USER NAME
 = woodshankrl
 DESIGNED
 RW
 REVISED

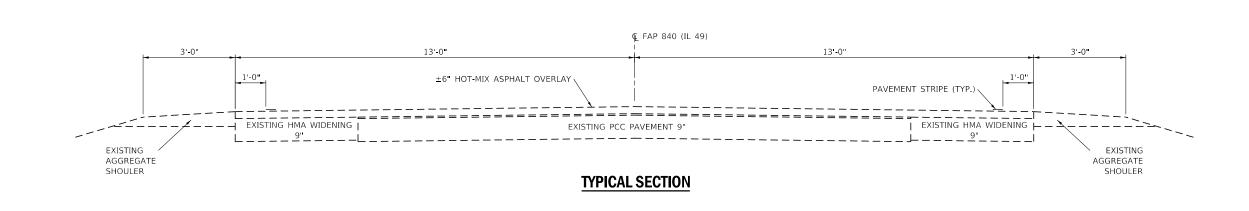
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 = 100,0000 ¹ / in.
 CHECKED
 TG
 REVISED

 PLOT DATE
 = 7/8/2019
 DATE
 6/6/2019
 REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

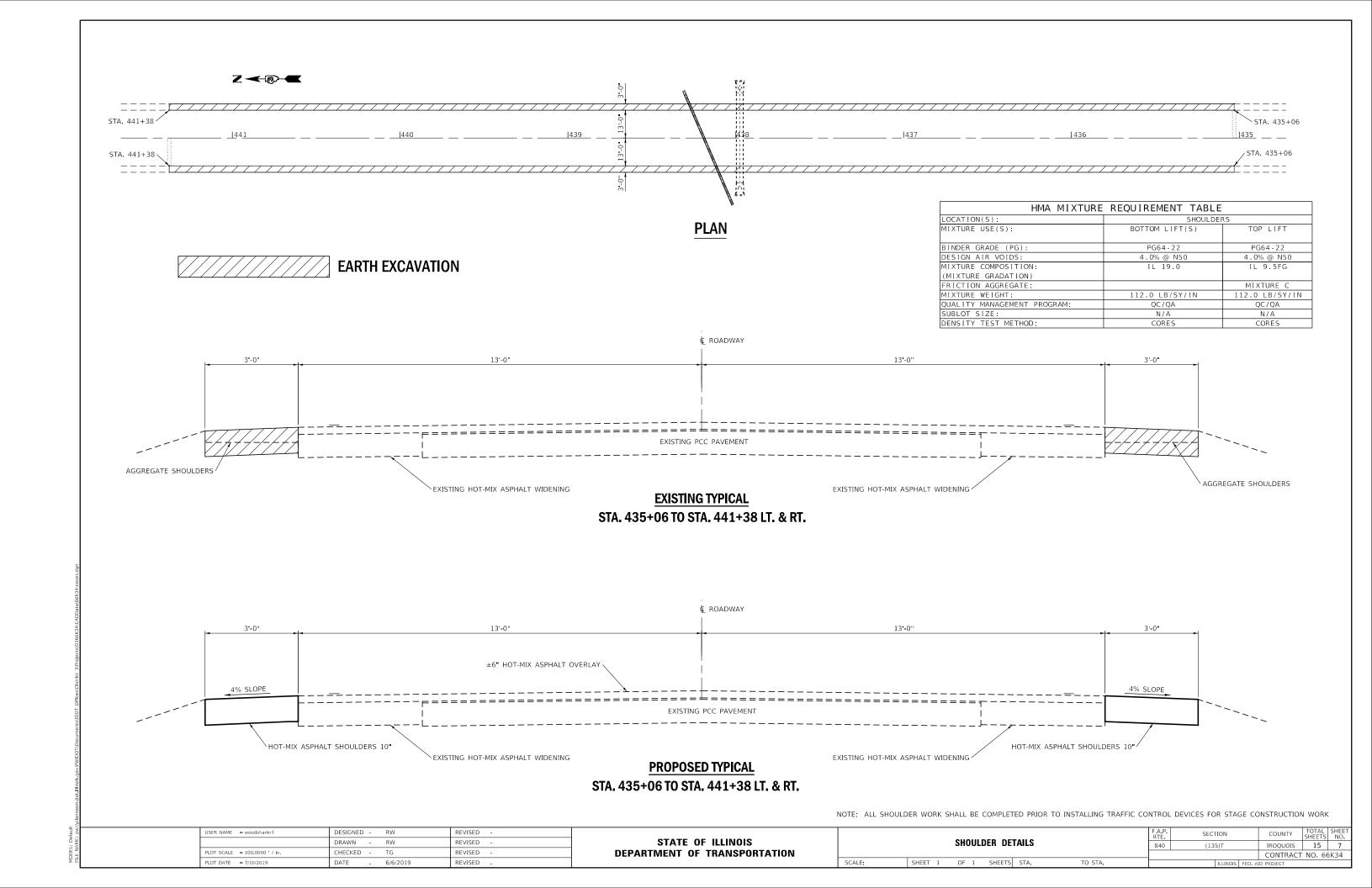
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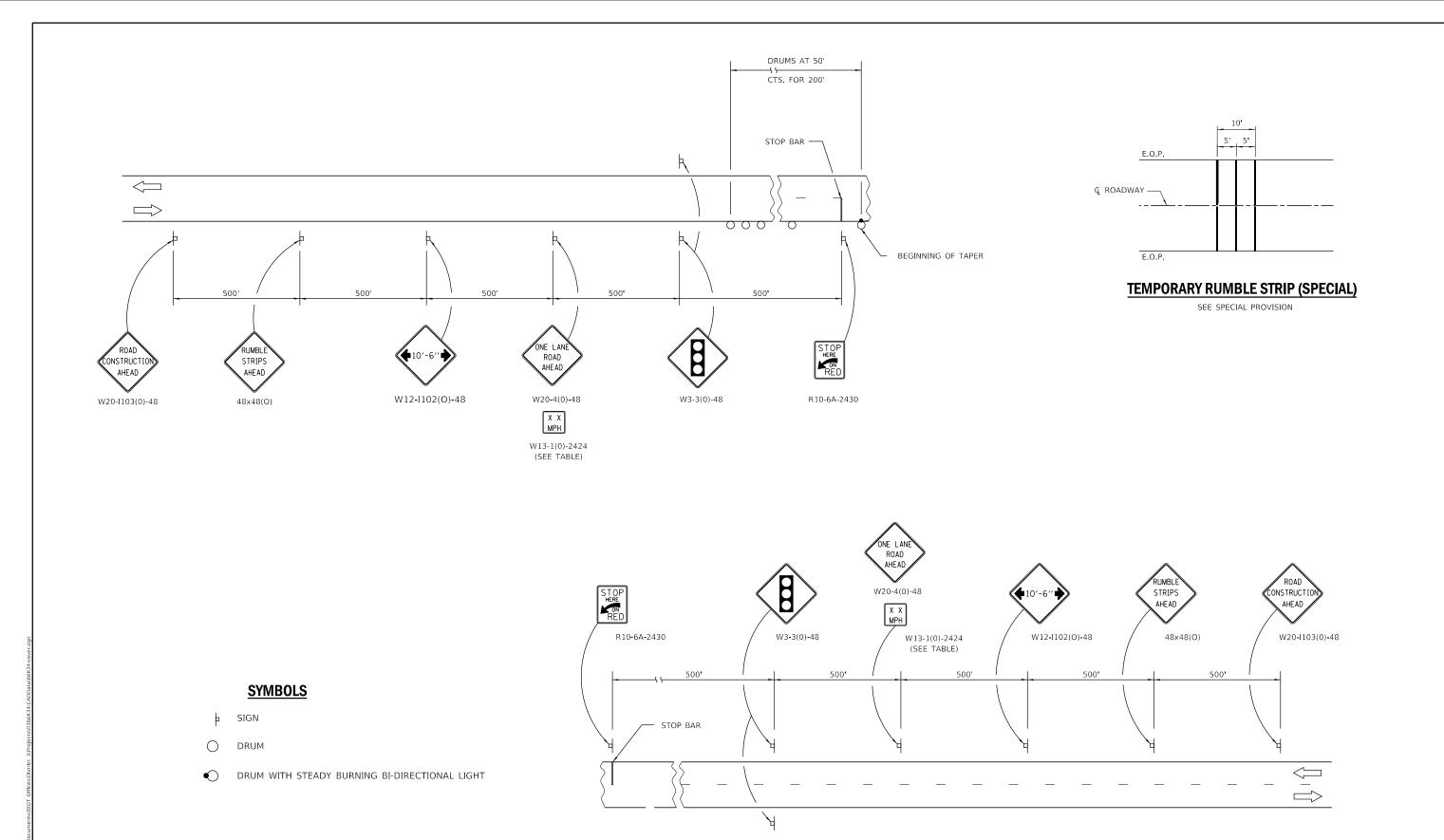


STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
 TYPICAL SECTION
 FAP: SECTION

 840
 (135)T

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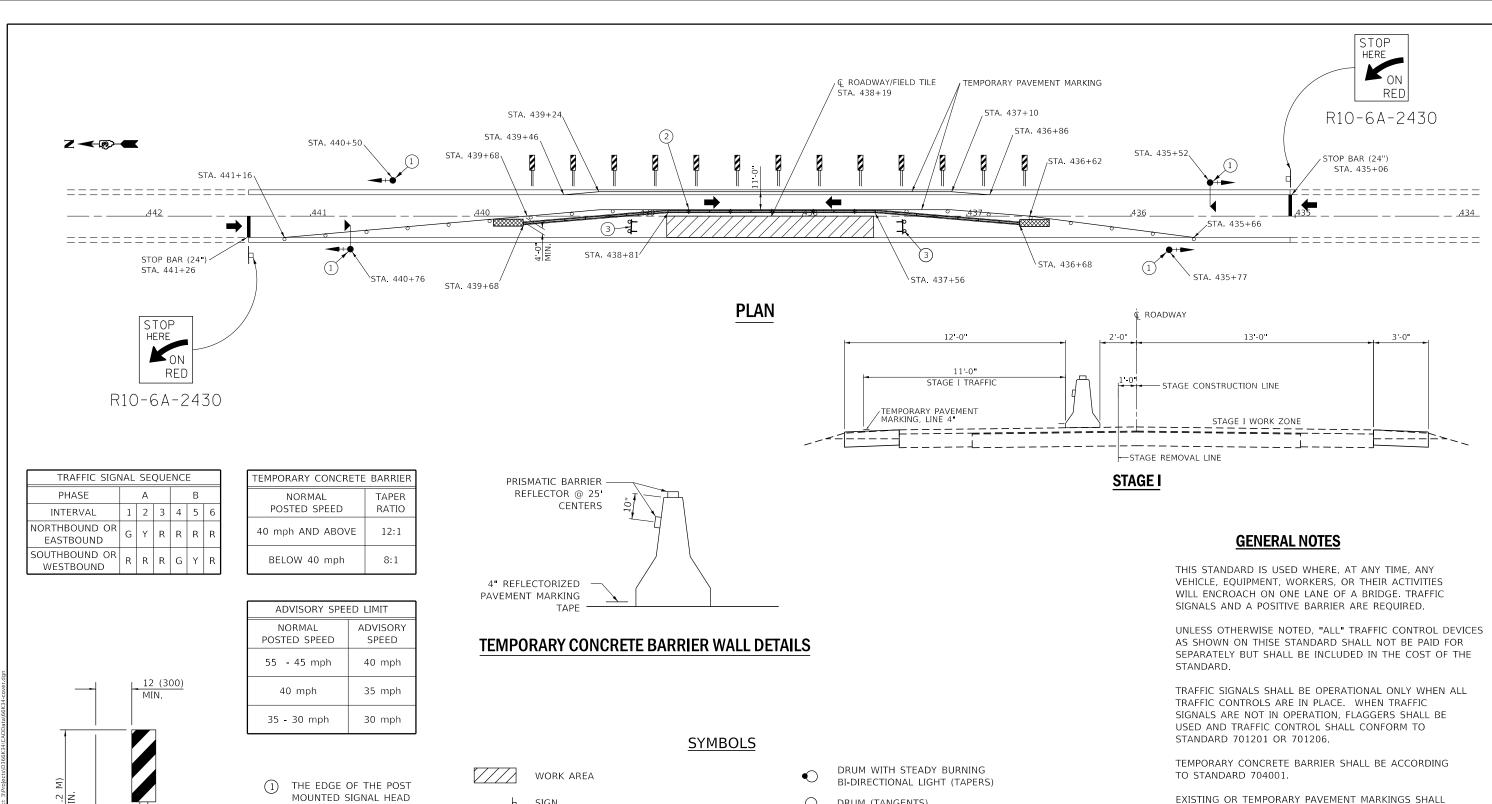


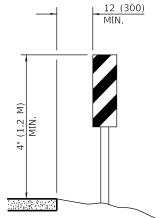


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	DRAWN -	RW	REVISED -
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PLOT DATE = 7/8/2019	DATE -	6/6/2019	REVISED -

SCALE:

				F.A.P. RTE				COUNTY	TOTAL SHEETS	SHEET NO.			
CTAN			840	840 (135)T			IROQUOIS	15	8				
STANDARD 701321 – ADVANCE SIGNING								CONTRACT	NO. 66	5K34			
SHEET :	1	OF	3	SHEETS	STA.	TO STA.			ILLINOIS	FED. AI	D PROJECT		

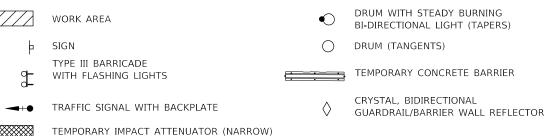




VERTICAL PANELS

(POST MOUNTED, ONE EACH SIDE)

- SHALL BE BETWEEN 24 (610) AND 6' (1.8 M) FROM EDGE OF SHOULDER.
- GUARDRAIL/BARRIER WALL REFLECTORS AT 25' (7.6 M) CTS. SEE STANDARDS 704001 & 782006.
- (3) TYPE III BARRICADE TO BE PLACED WHEN NO WORK IS BEING PERFORMED.



BE ON BOTH SIDES OF OPEN LANE FROM STOP BAR TO STOP BAR.

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

TEMPORARY PAVEMENT MARKING AS SHOWN ON THIS DETAIL, SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE STANDARD.

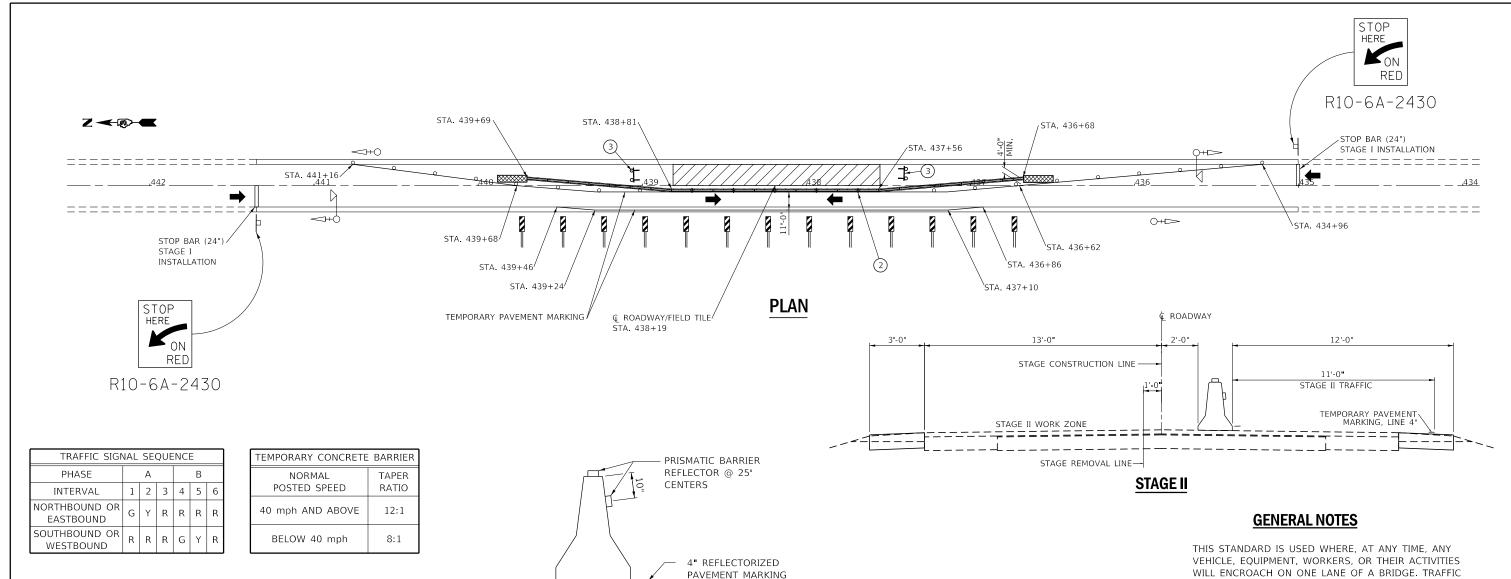
THE ARROW ON THE BACKSIDE OF THE DIRECTIONAL INDICATOR BARRICADES MUST BE COVERED OR REMOVED. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE INCLUDED IN THE COST OF THE APPLICABLE TRAFFIC CONTROL STANDARD.

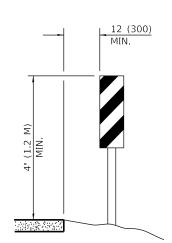
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STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

MICROWAVE DETECTOR

TRAFFIC CONTROL AND PROTECTION, STANDARD 701321 - STAGE I OF 3 SHEETS STA. TO STA. SECTION COUNTY IROQUOIS 15 9 (135)T CONTRACT NO. 66K34



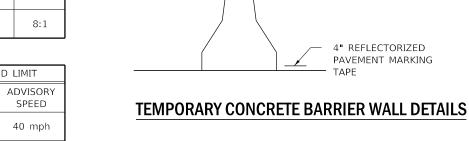


VERTICAL PANELS

(POST MOUNTED, ONE EACH SIDE)

ADVISORY SPEED LIMIT					
ADVISORY SPEED					
40 mph					
35 mph					
30 mph					

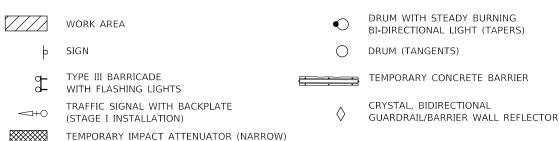
- THE EDGE OF THE POST MOUNTED SIGNAL HEAD SHALL BE BETWEEN 24 (610) AND 6' (1.8 M) FROM EDGE OF SHOULDER.
- GUARDRAIL/BARRIER WALL REFLECTORS AT 25' (7.6 M) CTS. SEE STANDARDS 704001 & 782006.
- (3) TYPE III BARRICADE TO BE PLACED WHEN NO WORK IS BEING PERFORMED.



MICROWAVE DETECTOR

(STAGE I INSTALLATION)

SYMBOLS



SIGNALS AND A POSITIVE BARRIER ARE REQUIRED. UNLESS OTHERWISE NOTED, "ALL" TRAFFIC CONTROL DEVICES

AS SHOWN ON THISE STANDARD SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE STANDARD.

TRAFFIC SIGNALS SHALL BE OPERATIONAL ONLY WHEN ALL TRAFFIC CONTROLS ARE IN PLACE. WHEN TRAFFIC SIGNALS ARE NOT IN OPERATION, FLAGGERS SHALL BE USED AND TRAFFIC CONTROL SHALL CONFORM TO STANDARD 701201 OR 701206.

TEMPORARY CONCRETE BARRIER SHALL BE ACCORDING TO STANDARD 704001.

EXISTING OR TEMPORARY PAVEMENT MARKINGS SHALL BE ON BOTH SIDES OF OPEN LANE FROM STOP BAR TO STOP BAR.

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

TEMPORARY PAVEMENT MARKING AS SHOWN ON THIS DETAIL, SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE STANDARD.

THE ARROW ON THE BACKSIDE OF THE DIRECTIONAL INDICATOR BARRICADES MUST BE COVERED OR REMOVED. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE INCLUDED IN THE COST OF THE APPLICABLE TRAFFIC CONTROL STANDARD.

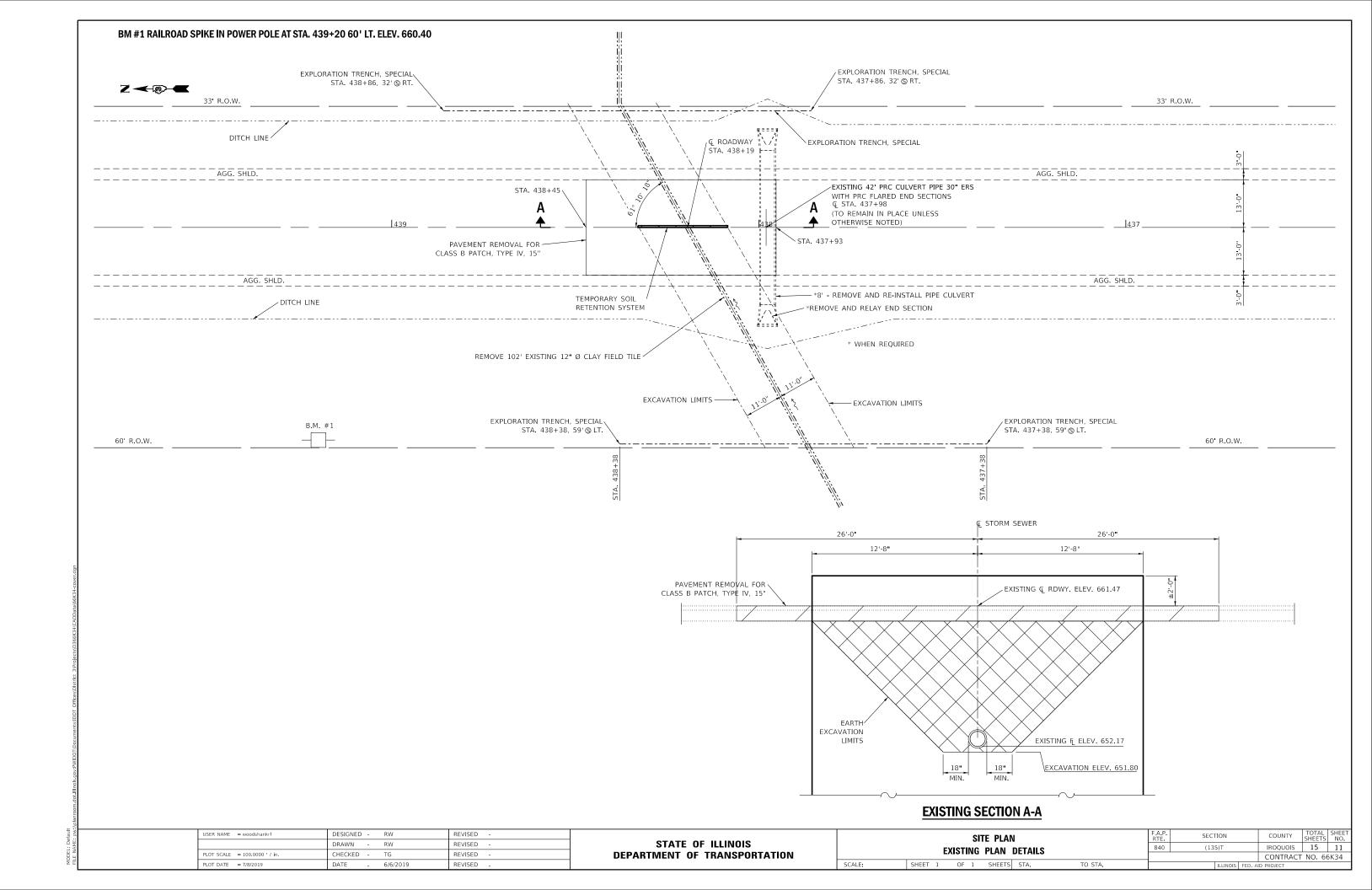
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PLOT DATE = 7/8/2019	DATE -	6/6/2019	REVISED -

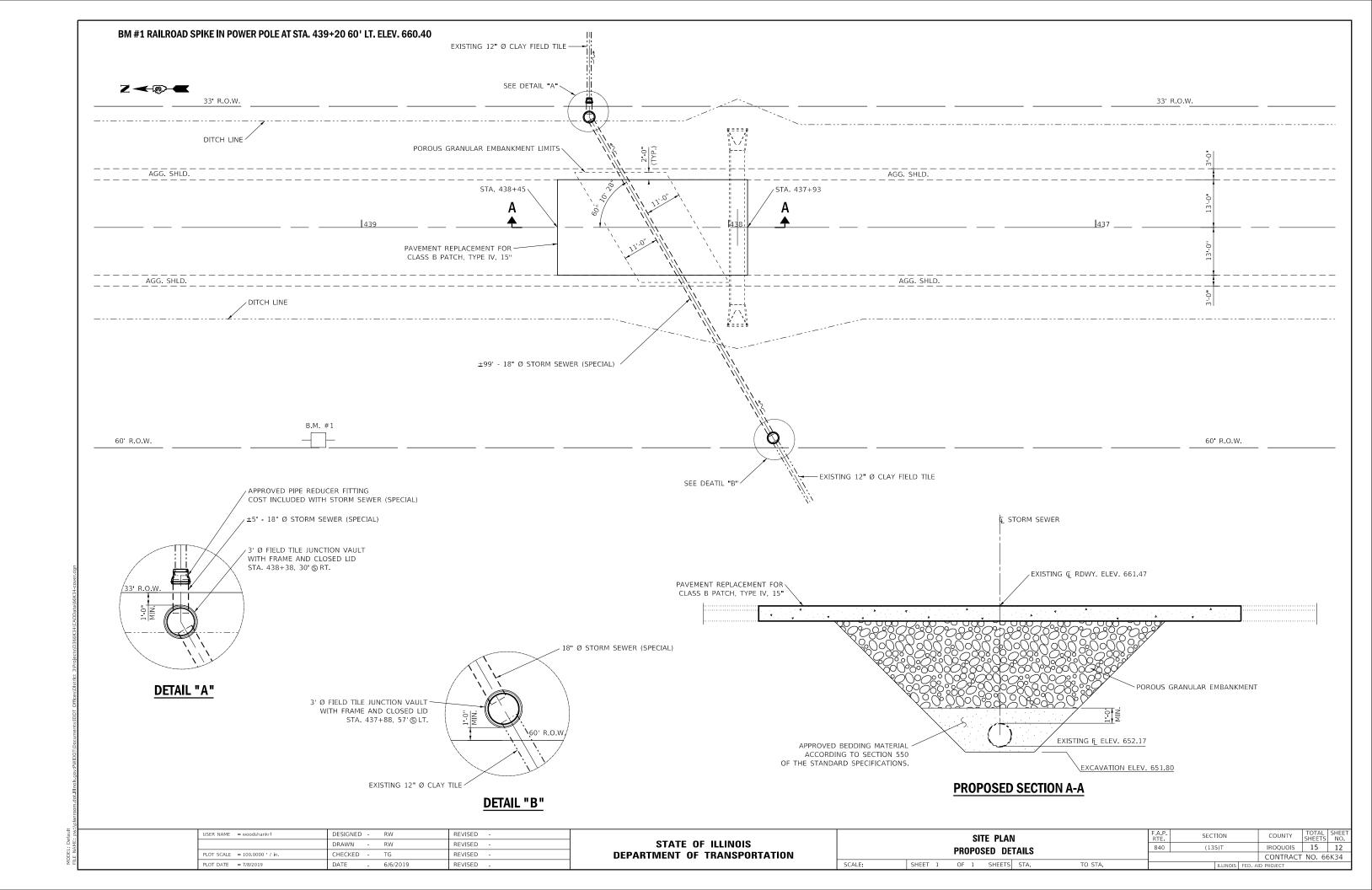
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

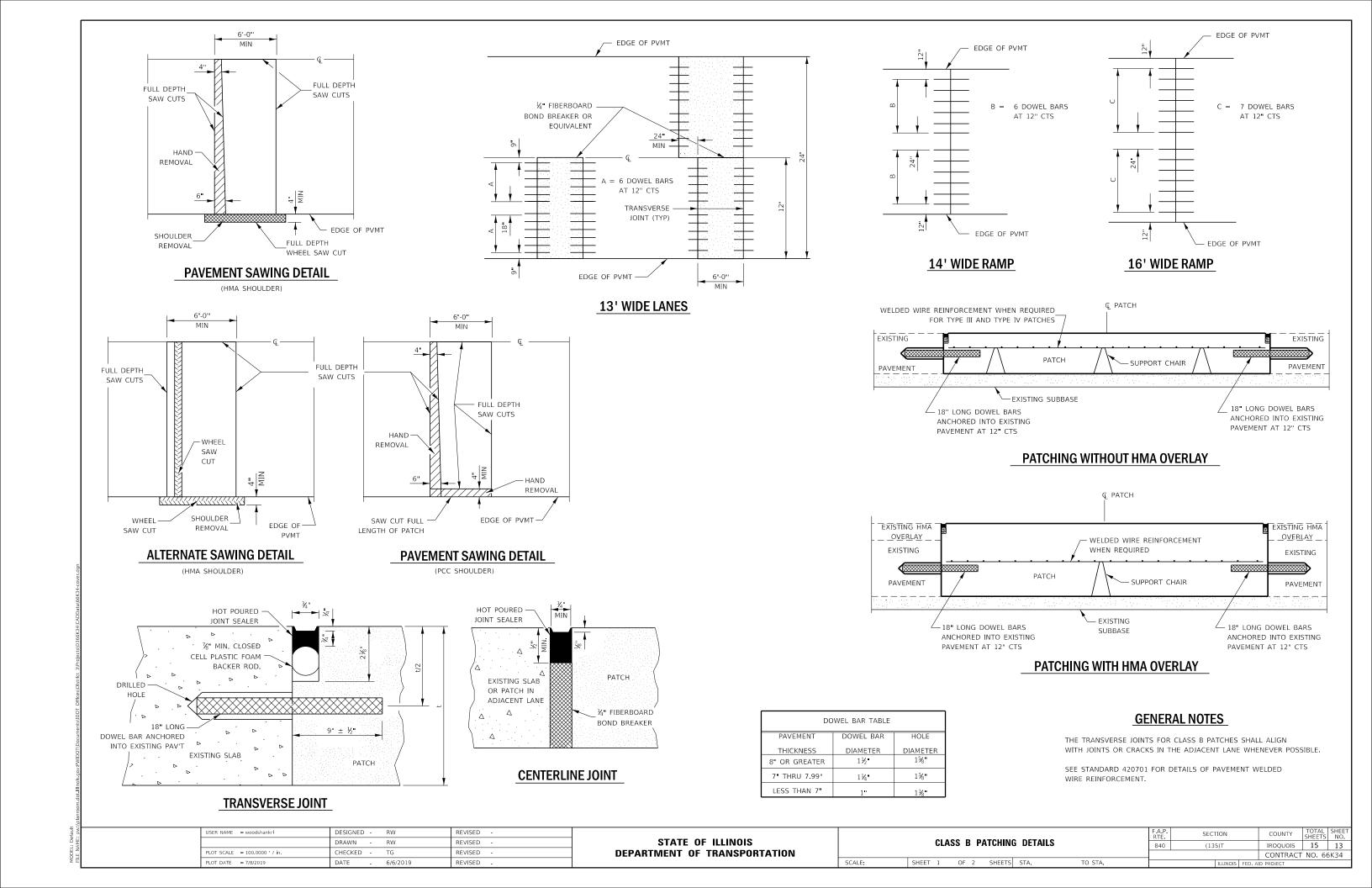
TRAFFIC CONTROL AND	F.A.P. RTE	SECTION		
STANDARD 701321	840	(135)T		
STANDAND 701321				
CHEET 3 OF 3 CHEETC	CTA	TO CTA		

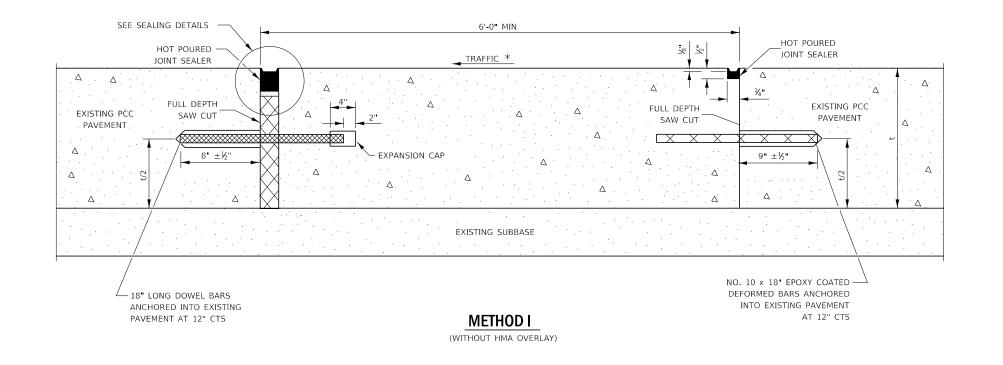
IROQUOIS 15 10 CONTRACT NO. 66K34

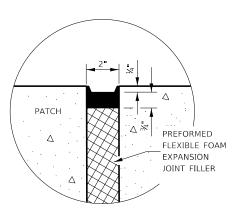
COUNTY



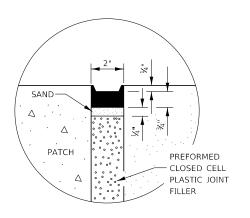








SEALING DETAIL



SEALING DETAIL

NOTE

* WHEN RE-ESTABLISHING A TRANSVERSE EXPANSION JOINT ON A TWO-WAY ROAD, REVERSE THE ORIENTATION OF THE DOWEL BARS WITH RESPECT TO TRAFFIC FOR ONE OF THE PATCHES SUCH THAT THE JOINT WILL BE CONTINUOUS ACROSS BOTH LANES.

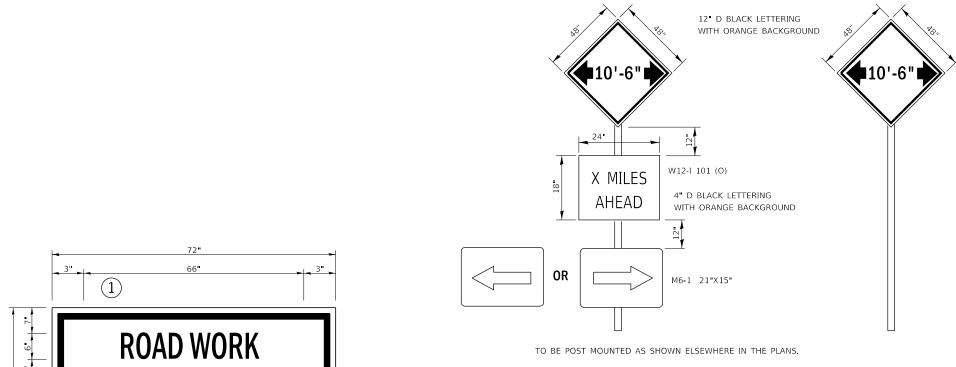
	I 	──	
		TRAFFIC *	HOT POURED JOINT SEALER
VARIES	2" JOINT FILLER A FULL DEPTH SAW CUT EXISTING PCC PAVEMENT A 8" ±½ A	A A A A A A A A A A A A A	Δ
	18" LONG DOWEL BARS ANCHORED INTO EXISTING PAVEMENT AT 12" CTS	METHOD II (WITH HMA OVERLAY)	NO. 10 × 18" EPOXY COATED DEFORMED BARS ANCHORED INTO EXISTING PAVEMENT AT 12" CTS

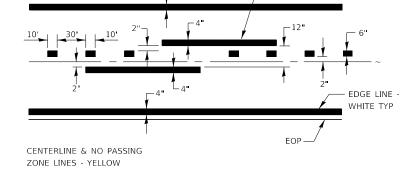
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PLOT SCALE = 100.0000 ' / in.	CHECKED -	TG	REVISED -	
PLOT DATE = 7/8/2019	DATE -	6/6/2019	REVISED -	

STATE OF ILLINOIS							
DEPARTMENT OF TRANSPORTATION							

SCALE:

CLACC D DATCHING DETAILS							F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CLASS B PATCHING DETAILS					840	840 (135)T		15	14		
									CONTRACT	NO. 66	5K34
SHEET	2	OF	2	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT				



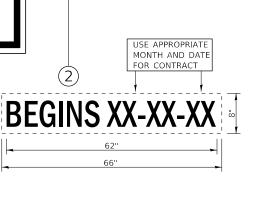


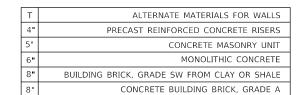
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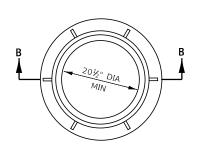
PAVEMENT MARKING

COST OF SUPPLYING, INSTALLING, MAINTAINING AND REMOVING WIDTH RESTRICTION SIGNS SHALL BE INCLUDED IN THE COST OF THE TRAFFIC CONTROL AND PROTECTION PAY ITEMS.

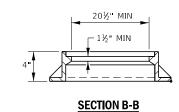
WIDTH RESTRICTION SIGNING DETAILS







± 145#



NON-REINF CONC PIPE FULL BELL AND SPIGOT CLASS SI CONCRETE OR PRECAST REINFORCED CONCRETE SLABS NOT LESS THAN 12" WIDE 1 NO 4 BAR LIFT LOOP DIA AS REQUIRED TO FIT JUNCTION VAULT

FIELD TILE JUNCTION VAULT

TEMPORARY INFORMATION SIGNING

AHEAD

EXPECT DELAYS

-¾" BLACK BORDER

NOTES:

- 1. USE 6" D BLACK LETTERING ON FLUORESCENT ORANGE BACKGROUND.
- 2. ERECT SIGNS AT LOCATIONS IN ADVANCE OF THE "ROAD CONSTRUCTION AHEAD" SIGNS AS DIRECTED BY THE ENGINEER.
- 3. ERECT SIGN 1 WITH INSTALLED PANEL 2 A MINIMUM OF ONE WEEK PRIOR TO THE START OF THE LANE CLOSURE.
- 4. REMOVE PANEL(2)ON THAT DATE.
- 5. SEE SPECIAL PROVISION "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
- 6. WILL BE PAID FOR PER SQ FT AS "TEMPORARY INFORMATION SIGNING". EACH SIGN = 21 SQ FT AND THE DATE PANEL (2) WILL NOT BE MEASURED SEPARATELY FOR PAYMENT.

NOTES

1. THE CONTRACT UNIT PRICE FOR FIELD TILE JUNCTION VAULT SHALL INCLUDE THE COST OF FURNISHING AND PLACING THE FRAME AND GRATE OR PRECAST CONCRETE LID AND THE SAND CUSHION.

2. ALL FIELD TILE JUNCTION VAULTS SHALL BE 2'-0" IN DIAMETER UNLESS OTHERWISE NOTED ON THE PLANS.

SHEET

FRAME & CLOSED LID

USER NAME = woodshankrl	DESIGNED -	RW	REVISED -
	DRAWN -	RW	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED -	TG	REVISED -
PLOT DATE = 7/12/2019	DATE	6/6/2019	REVISED

STATE OF	F ILLINOIS
DEPARTMENT OF	TRANSPORTATION

				F.A.P. RTE			COUNTY	TOTAL SHEETS	SHE		
MISCELLANEOUS DETAILS		S	840	(135)T		IROQUOIS	15	1			
									CONTRACT	NO. 6	5K3
1	OF	1	SHEETS	STA	TO STA		ILLINOIS EED AID PROJECT				