01-21-2022 LETTING ITEM 135

F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	(81-3B-1) BDR	STEPHENSON	11	1
	ILLINOIS	CONTRACT NO. 64R 32		

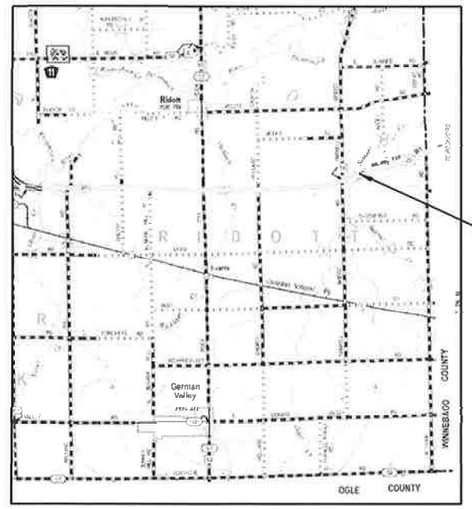
STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

PROPOSED HIGHWAY PLANS

FAP 301 (US 20 WB)
SECTION (18BR)RS
PROJECT
MAINTENANCE OF TRAFFIC
STEPHENSON COUNTY

C-92-005-22

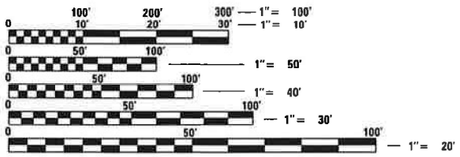


PROJECT LOCATION
SN 089-0074
OVER SUMNER CREEK

LOCATION OF SECTION INDICATED THUS: –

LICENSED PROFESSIONAL ENGINEER
MICHAEL G. BUITING
062-052330
OF ILLINOIS

Exp 11/30/2021
Michael G Buiting
For Maintenance of Traffic



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 EXCAVATORS
1–800–892–0123
OR 811

PROJECT ENGINEER: SCOTT WYATT
PROJECT MANAGER: MAHMOUD ETEMADI

CONTRACT NO. 64R 32

GROSS LENGTH = x.xx FT. = x.xxx MILE
NET LENGTH = x.xx FT. = x.xxx MILE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED October 26 ,20 21
Mahmoud Etemadi
REGIONAL ENGINEER

December 10 ,20 21
ENGINEER OF DESIGN AND ENVIRONMENT

December 10 ,20 21
Stephen M Travis
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

REV. 12/1/21REV. 11/30/21 REV. 11/29/21

SHEET INDEX

STATE HIGHWAY STANDARDS

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
701101-05	OFF ROAD MULTILANE OPERATIONS 15' TO 24" FROM PAVEMENT EDGE
701400-11	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-13	LANE CLOSURE, FREEWAY/EXPRESSWAY
701402-12	LANE CLOSURE, FREEWAY/EXPRESSWAY, WITH BARRIER
701426-09	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS > 45 MPH
701901-08	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
780001-05	TYPICAL PAVEMENT MARKINGS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

SUGGESTED MAINTENANCE OF TRAFFIC SEQUENCING

STAGE 1

INSTALL ALL STAGE 1 CONSTRUCTION TRAFFIC CONTROL SIGNS, DRUMS, BARRICADES, TEMPORARY CONCRETE BARRIER, TEMPORARY IMPACT ATTENUATORS, AND TEMPORARY PAVEMENT MARKINGS AS DETAILED IN STAGE 1 PLANS AND APPROPRIATE STANDARD DRAWINGS.

MERGE ALL WESTBOUND TRAFFIC TO THE EXISTING/TEMPORARY INSIDE LANE EAST OF SN 089-0074 CROSSING SUMNER CREEK.

COORDINATE WORK TO BE COMPLETED IN THIS STAGE WITH DETAILS IN THE BRIDGE PLANS.

STAGE 2

CHANGE STAGE 1 CONSTRUCTION TRAFFIC CONTROL SIGNS, DRUMS, BARRICADES, TEMPORARY CONCRETE BARRIER, TEMPORARY IMPACT ATTENUATORS, AND TEMPORARY PAVEMENT MARKINGS AS NEEDED TO REFLECT STAGE 2 PLANS AND APPROPRIATE STANDARD DRAWINGS.

MERGE ALL WESTBOUND TRAFFIC TO THE EXISTING/TEMPORARY OUTSIDE LANE EAST OF SN 089-0074 CROSSING SUMNER CREEK.

REMOVE ALL CONFLICTING TRAFFIC CONTROL ITEMS FROM STAGE 1 SETUP.

COORDINATE WORK TO BE COMPLETED IN THIS STAGE WITH DETAILS IN THE BRIDGE PLANS.

POST STAGE

REMOVE ALL CONSTRUCTION TRAFFIC CONTROL AND TEMPORARY CONSTRUCTION ITEMS.

REMOVE ANY REMAINING EXISTING TEMPORARY PAVEMENT MARKINGS WITHIN THE PERMANENT PAVEMENT MARKING LIMITS.

SCHEDULE OF PAVEMENT MARKING AND REMOVAL

Item	Location	Station Begin	Station End	Offset Min	Offset Max	Pavement Markings 6" Blackout Tape Foot	Pavement Markings 4" Temp Foot	Short Term Marking Removal Blackout Tape Sq Ft	Short Term Marking Removal 4" Temporary Sq Ft
STAGE 1									
6" Blackout Tape	Yellow WB Edgeline	1461+60	1467+75	12' Rt	12' Rt	615		308	
4" White Temp Tape	Westbound Lane	1460+60	1482+40	12' Lt	3.0' Rt		2180		
4" Yellow Temp Tape	Westbound Lane	1461+60	1467+75	12' Rt	15' Rt		615		
STAGE 2									
Temp Marking Removal	WB Stage 1 White Temp	1460+60	1482+40	12' Lt	3.0' Rt				727
6" Blackout Tape	White WB Edgeline	1461+35	1467+70	12' Lt	12' Lt	635		212	
4" Yellow Temp Tape	Westbound Lane	1460+35	1482+70	12' Rt	4.0' Lt		2235		
4" White Temp Tape	Westbound Lane	1461+35	1467+70	12' Lt	16' Lt		635		
POST STAGE									
Temp Marking Removal	WB Stage 1 Yellow Temp	1461+60	1467+75	12' Rt	15' Rt				205
Temp Marking Removal	WB Stage 2 Yellow Temp	1460+35	1482+70	12' Rt	4.0' Lt				745
Temp Marking Removal	WB Stage 2 White Temp	1461+35	1467+70	12' Lt	16' Lt				212
TOTAL						1,250	5,665	2,408	

MAINTENANCE OF TRAFFIC GENERAL NOTES

1. THE MAINTENANCE OF TRAFFIC CONTROL (MOT) PLANS SHALL SERVE AS A GUIDE FOR SAFE DIVERSION OF TRAFFIC DURING EXECUTION OF THIS CONTRACT. HOWEVER, THE CONTRACTOR MAY MODIFY THE MOT PLANS TO MEET CONSTRUCTION NEEDS, BUT NOT AT THE EXPENSE OF PUBLIC SAFETY OR CONVENIENCE. ANY CHANGES TO THE MOT PLANS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
2. THE ENGINEER SHALL BE INFORMED 48 HOURS IN ADVANCE OF ANY PROPOSED CHANGE TO THE MOT PLANS.
3. ALL EXISTING PAVEMENT MARKINGS IN CONFLICT WITH THE MAINTENANCE OF TRAFFIC STRIPING SHALL BE REMOVED TO THE LIMITS SHOWN IN THE PLANS.
4. ALL TEMPORARY PAVEMENT MARKING WHICH CONFLICTS WITH THE NEXT STAGE OR FINAL STRIPING SHALL BE REMOVED OR BLACKED OUT TO THE LIMITS SPECIFIED IN THE PLANS AND IN THE SCHEDULES OF PAVEMENT MARKING.
5. ALL TRAFFIC CONTROL DEVICES USED FOR THE MAINTENANCE OF TRAFFIC, AS DETAILED ON THE PLANS OR HIGHWAY STANDARD, SHALL BE REFLECTORIZED PRIOR TO INSTALLATION AND CLEANED AS SPECIFIED IN THE MAINTENANCE OF TRAFFIC SPECIAL PROVISIONS OR AS DIRECTED BY THE ENGINEER.
6. ALL DRUMS, VERTICAL PANELS AND BARRICADES ADJACENT TO THE EDGE OF TRAVELED WAY SHALL BE EQUIPPED WITH BI-DIRECTIONAL STEADY-BURNING LIGHTS.
7. ALL EXISTING SIGNS WITHIN MAINTENANCE OF TRAFFIC LIMITS WHICH ARE OBSCURED BY OR INTERFERE WITH CONSTRUCTION OPERATIONS AND MAINTENANCE OF TRAFFIC, SHALL BE COVERED OR REMOVED BY THE CONTRACTOR UNLESS SPECIFIED IN THE PLANS OR WHEN DIRECTED BY THE ENGINEER. THIS WORK SHALL BE IN ACCORDANCE WITH ARTICLE 107.25 OF THE IDOT STANDARD SPECIFICATIONS.
8. A FULL DEPTH SAWCUT WILL BE REQUIRED BETWEEN PAVEMENT, CURB AND/OR GUTTER TO REMAIN AND PAVEMENT, CURB AND/OR GUTTER TO BE REMOVED PRIOR TO BEGINNING OF REMOVAL WORK. COST TO BE INCLUDED WITH APPLICABLE REMOVAL ITEMS.
9. THE CONTRACTOR SHALL CONTACT THE IDOT DISTRICT 2 ENGINEER AT (815)284-2271 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

PAY ITEMS FOR MAINTENANCE OF TRAFFIC WORK

ITEM "TRAFFIC CONTROL AND PROTECTION, STANDARD 701401" IS INTENDED FOR THE MATERIAL, EQUIPMENT AND LABOR NECESSARY FOR THE INSTALLATION, MAINTENANCE AND RELOCATION OF SIGNS, DRUMS, LIGHTS, PANELS, AND REFLECTORS NECESSARY TO MAINTAIN SAFE TRAFFIC FLOW DURING THE SETUP OF STAGED CONSTRUCTION MAINTENANCE OF TRAFFIC IN ACCORDANCE WITH IDOT STANDARDS 701400 AND 701401.

ITEM "TRAFFIC CONTROL AND PROTECTION, STANDARD 701402" IS INTENDED FOR THE MATERIAL, EQUIPMENT AND LABOR NECESSARY FOR THE INSTALLATION, MAINTENANCE AND RELOCATION OF SIGNS, DRUMS, LIGHTS, PANELS, AND REFLECTORS NECESSARY TO MAINTAIN SAFE TRAFFIC FLOW DURING STAGED CONSTRUCTION IN ACCORDANCE WITH IDOT STANDARDS 701400 AND 701402.

ITEM "PAVEMENT MARKING TAPE" IS INTENDED FOR THE MATERIAL, EQUIPMENT AND LABOR NECESSARY TO PLACE AND MAINTAIN TEMPORARY PAVEMENT MARKING TAPE OF THE TYPE, SIZE AND LIMITS SPECIFIED IN THE PLANS, SPECIFICATIONS, AND IDOT STANDARD 780001.

ITEM "TEMPORARY PAVEMENT MARKING REMOVAL" IS INTENDED FOR THE MATERIAL, EQUIPMENT AND LABOR NECESSARY TO REMOVE TEMPORARY PAVEMENT MARKINGS TO THE LIMITS SPECIFIED IN THE PLANS.

SCHEDULE OF TEMP CONCRETE BARRIER AND REFLECTORS

Location	Station Begin	Station End	Temporary Conc Barrier Set Stage 1 Foot	Temporary Conc Barrier Reloc Stage 2 Foot	Guardrail Refl Type A Stage 1 Each	Guardrail Refl Type A Stage 2 Each	Barrier Refl Type B Stage 1 Each	Barrier Refl Type B Stage 2 Each
Westbound Lanes	1463+10	1467+75	475	475				
WB Bridge Guardrail	1465+00	1467+40			10	10		
WB Bridge Parapet	1464+00	1465+00					8	8
TOTAL			475	475	20		16	

HAMILTON CONSULTING ENGINEERS, INC.
3230 Executive Drive, Joliet, Illinois 60431
Ph: (815) 730•3444 Fax: (815) 730•6703
IL LICENSE NO. 184-003205

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 20 CROSSING SUMNER CREEK
GENERAL NOTES / CONSTRUCTION SEQUENCE

SCALE: NA | SHEET 2 OF 8 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	(18BR)RS	STEPHENSON	11	2
		CONTRACT NO. 64R32		
	ILLINOIS	FED. AID PROJECT		

0013
100% STATE

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY
	67100100	MOBILIZATION	L SUM	1
	70100205	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	EACH	1
	70100207	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402	EACH	1
	70107006	PAVEMENT MARKING BLACKOUT TAPE, 6''	FOOT	1,250
	70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	2,408
	70301720	TEMPORARY PAVEMENT MARKING-LINE-4''-TYPE IV	FOOT	5,665
	70400100	TEMPORARY CONCRETE BARRIER	FOOT	475
	70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	475
	70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	1
	70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	1
*	78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	20
*	78200010	BARRIER WALL REFLECTORS, TYPE B	EACH	16
	42001300	PROTECTIVE COAT	SQ YD	82.1
	50300225	CONCRETE STRUCTURES	CU YD	4.9
	50300255	CONCRETE SUPERSTRUCTURE	CU YD	35.6
	50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	5,920
	50800515	BAR SPLICERS	EACH	27
	50800530	MECHANICAL SPLICERS	EACH	120
	Z0016200	DECK SLAB REPAIR (PARTIAL)	SQ YD	5.0
	Z0004552	APPROACH SLAB REMOVAL	SQ YD	82.1

*= SPECIALTY ITEM

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IL LICENSE NO. 184-003205

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 20 CROSSING SUMNER CREEK
SCHEDULE OF QUANTITIES

SCALE: | SHEET 3 OF 8 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	(18BR)RS	STEPHENSON		3
		CONTRACT NO. 64R32		
	ILLINOIS	FED. AID PROJECT		

REV. 12/10/21 REV. 12/7/21 REV. 12/1/21 REV. 11/30/21

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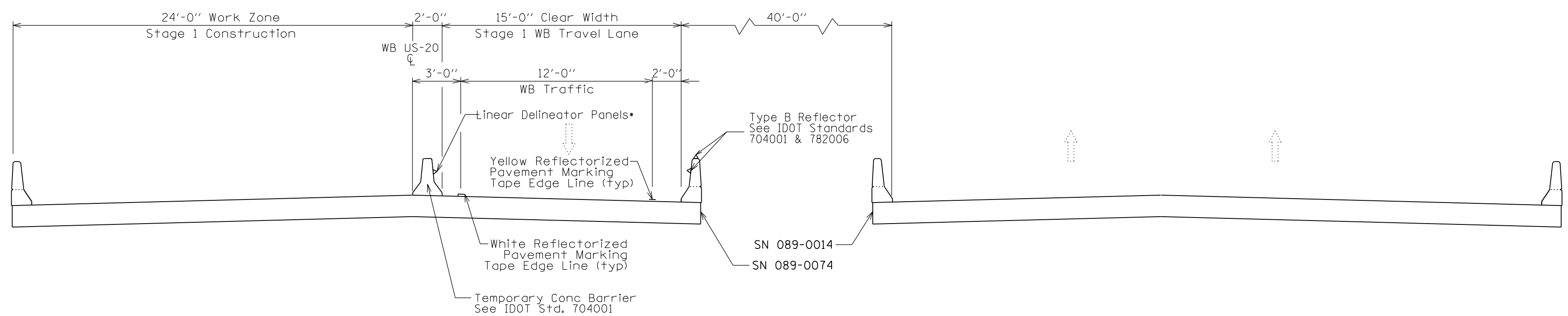
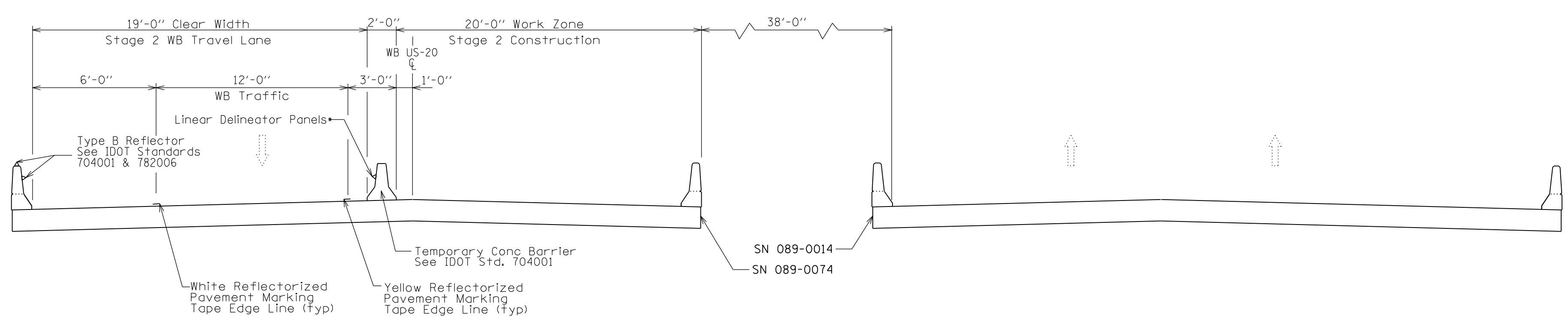


STAGE 1

(LOOKING EAST)



STAGE 2

(LOOKING EAST)

•Linear Delineator Panels included in items "Temporary Concrete Barrier" and "Relocate Temporary Concrete Barrier".

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		DRAWN - MGB	REVISED -		
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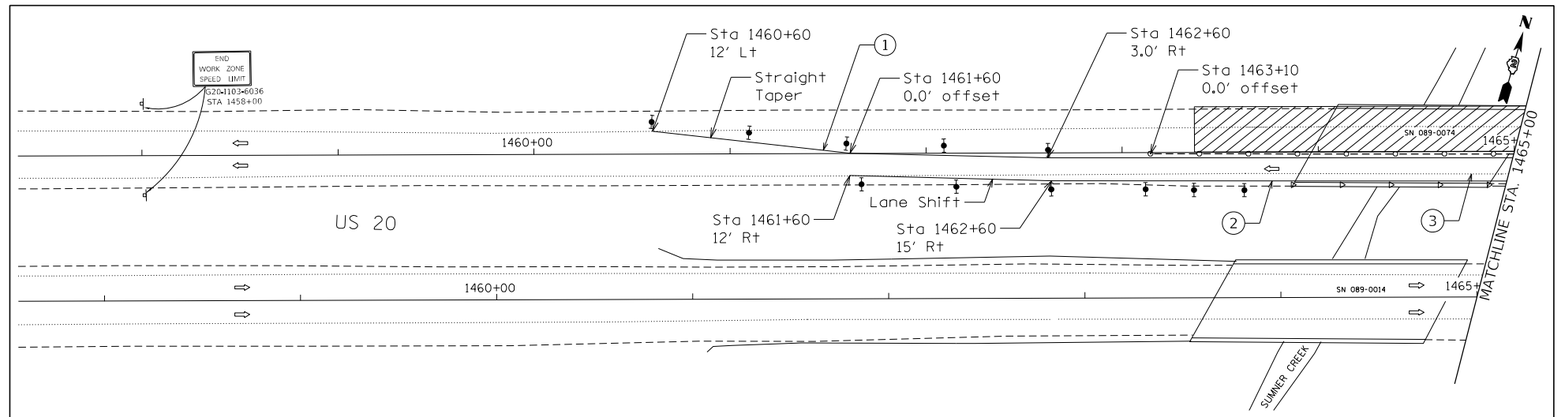
	PLOT DATE = 10/20/2021	DATE -	REVISED -		SCALE: NTS · SHEET 4 OF 8 SHEETS · STA. · TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	(18BR)RS	STEPHENSON	11	4
CONTRACT NO. 64R32				
ILLINOIS FED. AID PROJECT				



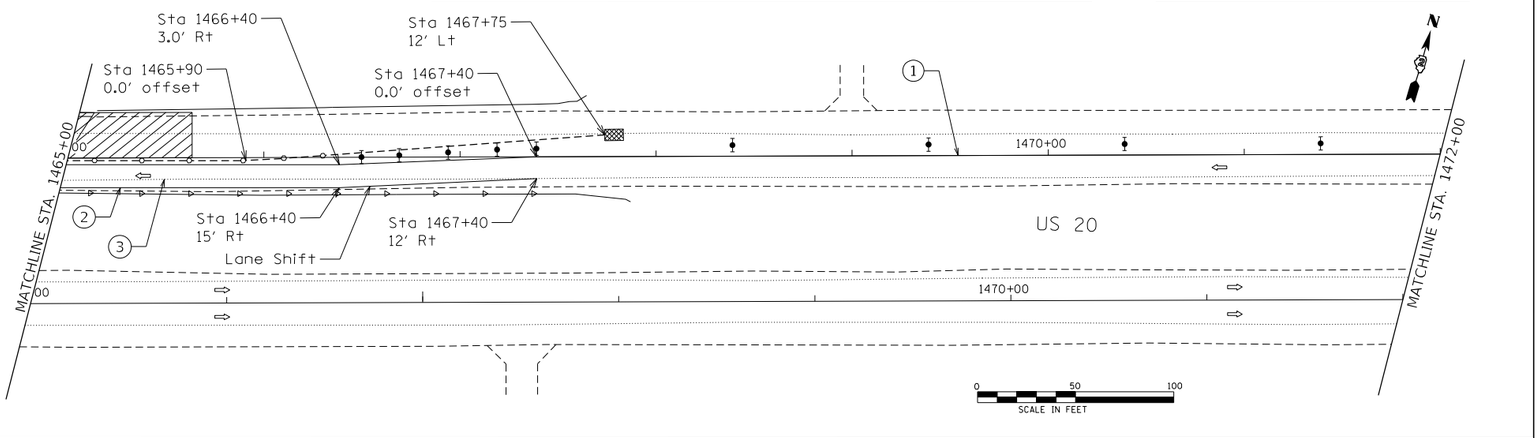
SYMBOLS

- Work area
- Direction indicator barricade with steady burn monodirectional light. See IDOT Std 701901.
- Linear delineator panels on 25' centers.
- Monodirectional reflector. See IDOT Std 782006.
- Temporary impact attenuator, non-redirective, test level 3.
- Arrow board located in accordance with IDOT Stds 701400 and 701402
- Trailer mounted sign
- Sign
- Type II or vertical barricade, or drum, with mono-directional steady-burn light. See IDOT Std 701901.
- Temp. concrete barrier. See IDOT Std 704001.

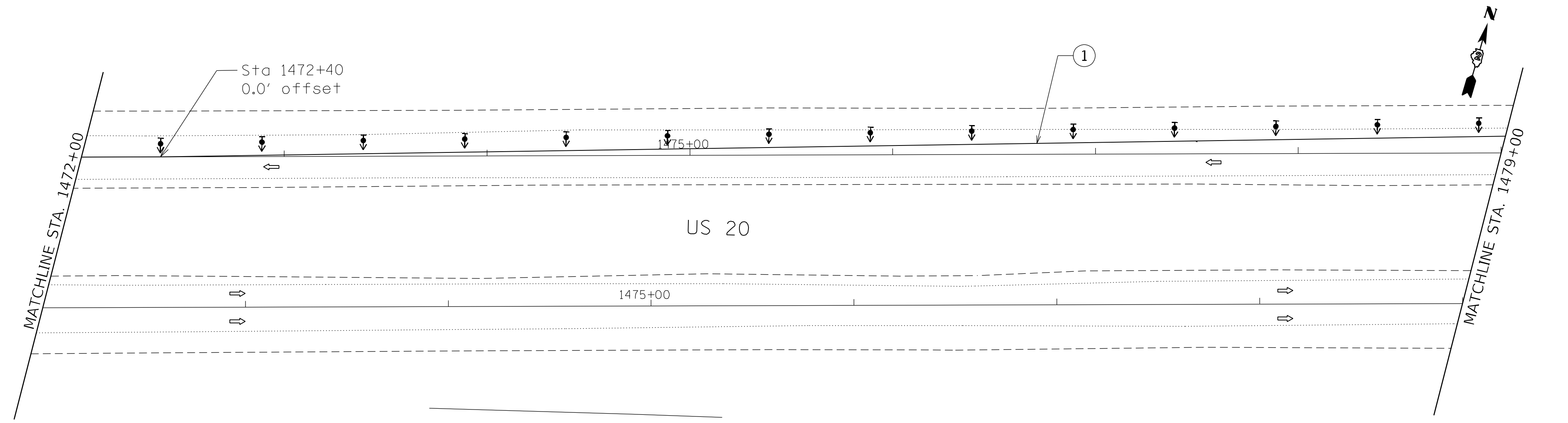
PAVEMENT MARKING CALLOUTS

1. Pavement Marking Tape, Type IV, 4" White
2. Pavement Marking Tape, Type IV, 4" Yellow
3. Pavement Marking Blackout Tape, 6"

NOTE: All barricades, drums, vertical panels and reflectors shall be offset and spaced in accordance with IDOT Standards 701400 and 701402. WB centerline stationing used to locate MOT items.



HAMILTON CONSULTING ENGINEERS, INC. 1234 Executive Drive, Joliet, Illinois 60431 PH: (815) 730-1444 FAX: (815) 730-1760 E-MAIL: HAMILTON@HCE.COM © 2020 HAMILTON CONSULTING ENGINEERS, INC.	USER NAME = mbuiting	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	US 20 CROSSING SUMNER CREEK TRAFFIC CONTROL STAGE 1 PLAN SHEET	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 50.0000 ' / in	DRAWN -	REVISED -			301	11BRRS	STEPHENSON	11	5
	PLOT DATE = 10/2/2021	CHECKED -	REVISED -					CONTRACT NO. 64R32		
		DATE -	REVISED -		SCALE: 1"=50' SHEET 5 OF 8 SHEETS STA. 1457+50 TO STA. 1472+00			ILLINOIS FED. AID PROJECT		



SYMBOLS

- Work area
- Direction indicator barricade with steady burn monodirectional light. See IDOT Std 701901.
- Linear delineator panels on 25' centers.
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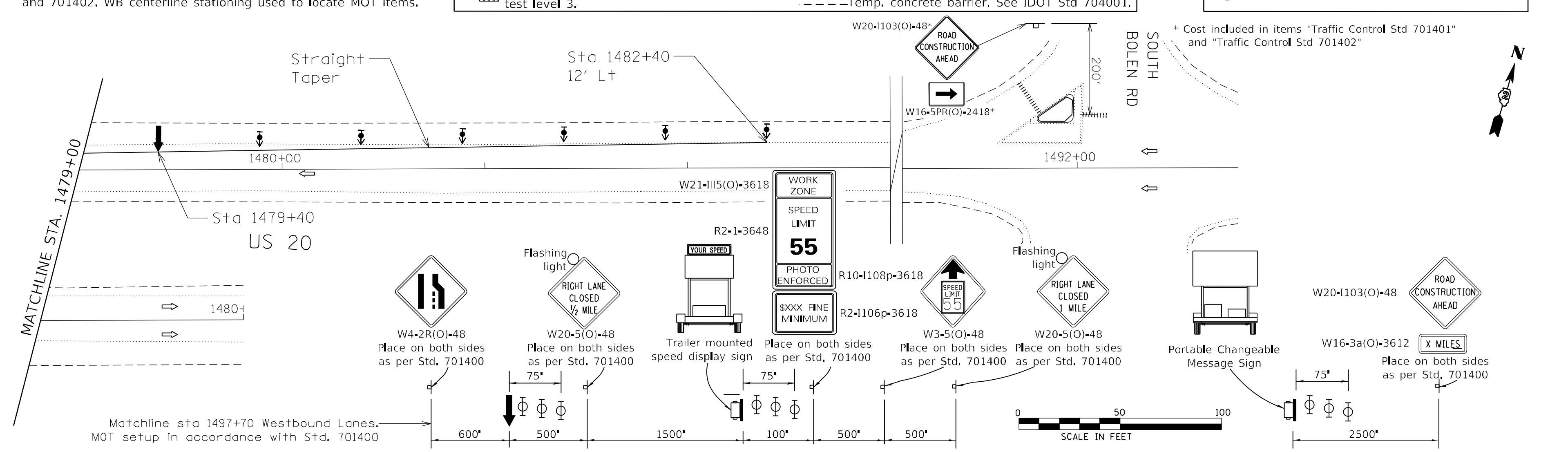
NOTE: All barricades, drums, vertical panels and reflectors shall be offset and spaced in accordance with IDOT Standards 701400 and 701402. WB centerline stationing used to locate MOT items.

* Cost included in items "Traffic Control Std 701401" and "Traffic Control Std 701402"



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IL LICENSE NO. 184-003205

USER NAME = mbulting	DESIGNED -	REVISED -	
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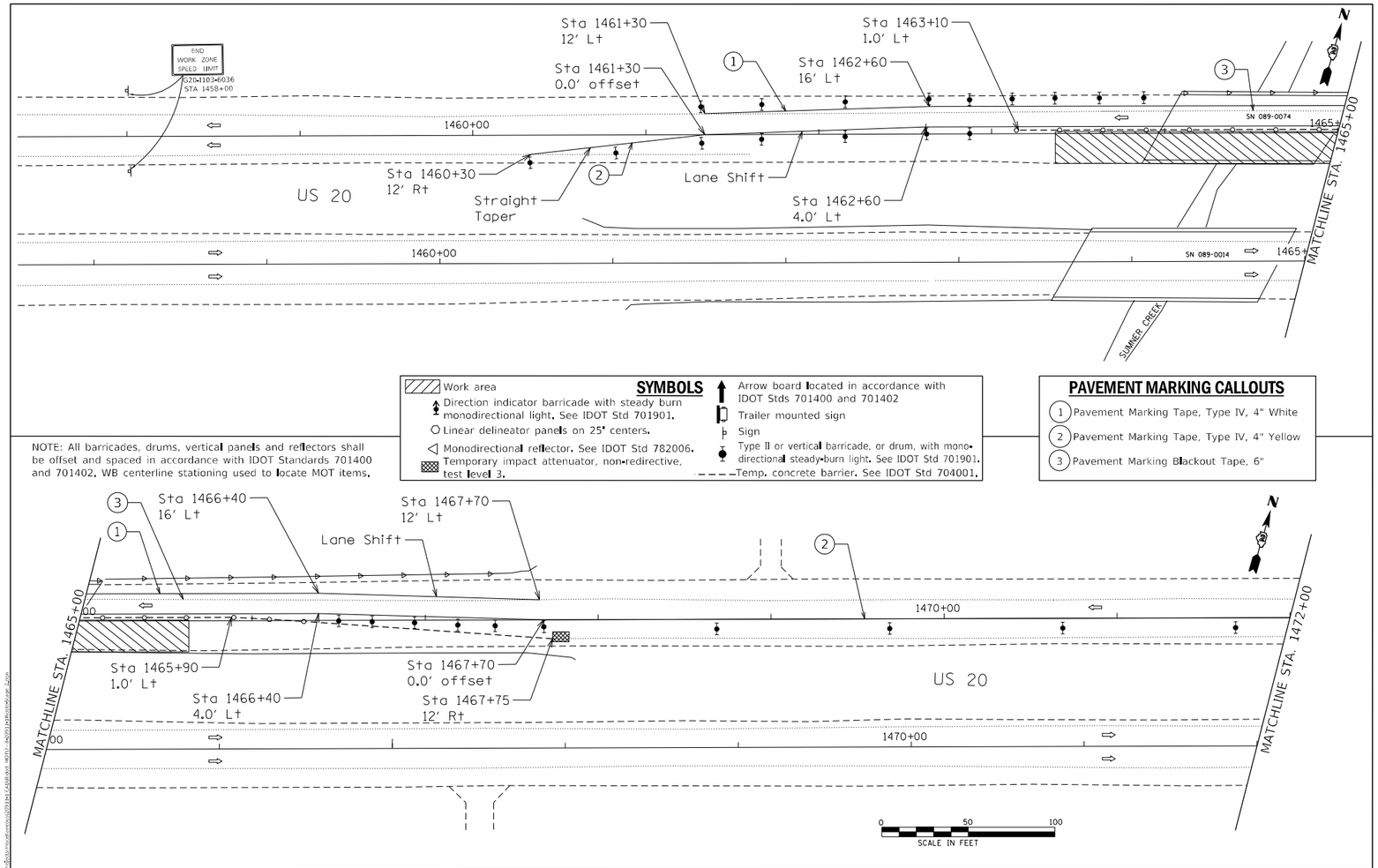
PLOT SCALE = 50.0349 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 10/20/2021	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 20 CROSSING SUMNER CREEK
TRAFFIC CONTROL STAGE 1 PLAN SHEET

SCALE: 1"=50' | SHEET 6 OF 8 SHEETS | STA. 1472+00 TO STA. 1534+70

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	(18BR)RS	STEPHENSON	11	6
		CONTRACT NO. 64R32		
		ILLINOIS FED. AID PROJECT		



SYMBOLS

- Work area
- Direction indicator barricade with steady burn monodirectional light. See IDOT Std 701901.
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NOTE: All barricades, drums, vertical panels and reflectors shall be offset and spaced in accordance with IDOT Standards 701400 and 701402. WB centerline stationing used to locate MOT items.

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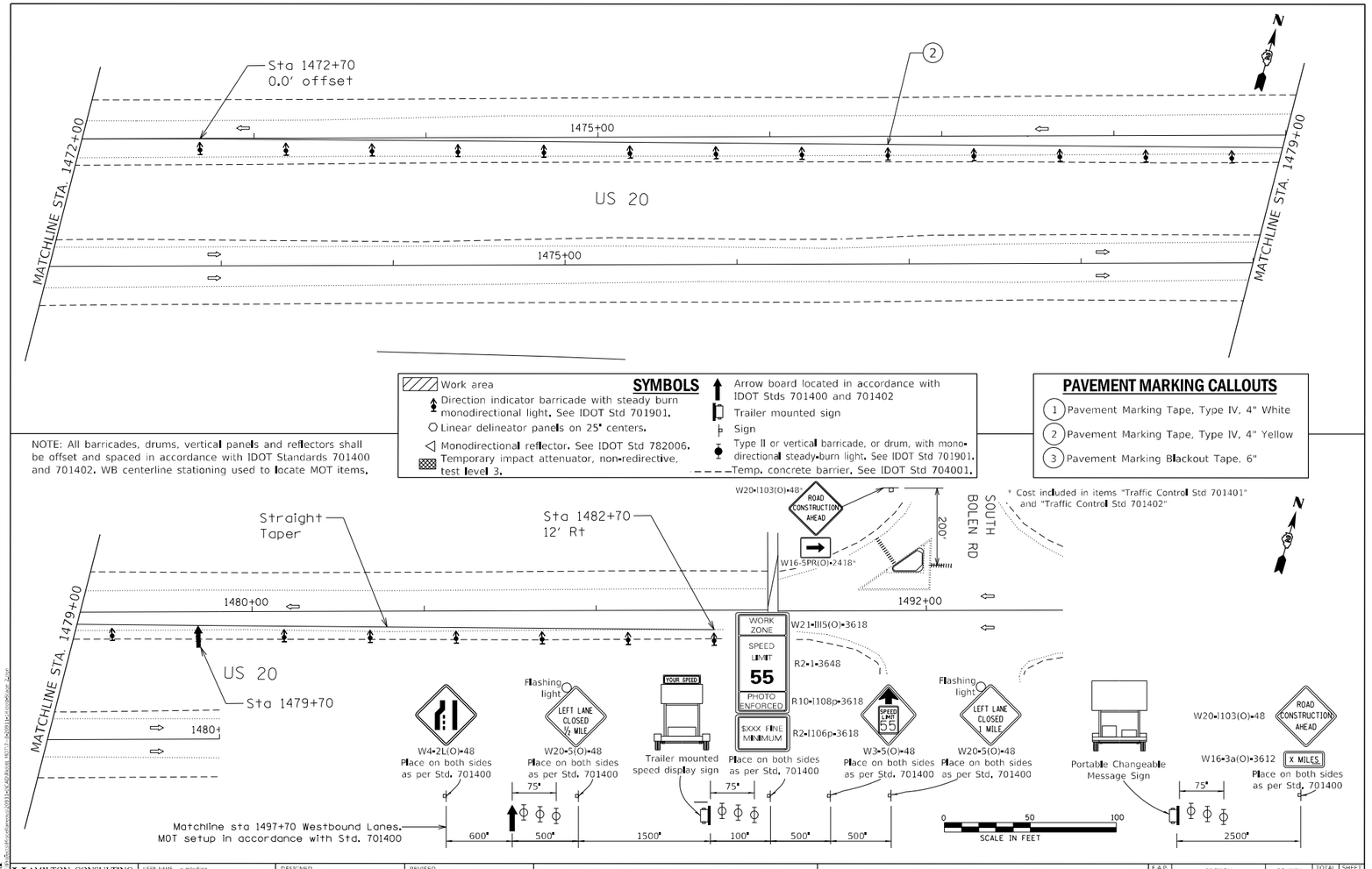
USER NAME = hbuiting	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 50.0000 ' / in	CHECKED -	REVISED -
PLOT DATE = 10/2/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 20 CROSSING SUMNER CREEK
TRAFFIC CONTROL STAGE 2 PLAN SHEET

SCALE: 1"=50' | SHEET 7 OF 8 SHEETS | STA. 1457+50 TO STA. 1472+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	11BBRRS	STEPHENSON	11	7
		CONTRACT NO. 64R32		
	ILLINOIS FED. AID PROJECT			



SYMBOLS

- Work area
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NOTE: All barricades, drums, vertical panels and reflectors shall be offset and spaced in accordance with IDOT Standards 701400 and 701402. WB centerline stationing used to locate MOT items.

HAMILTON CONSULTING ENGINEERS, INC.

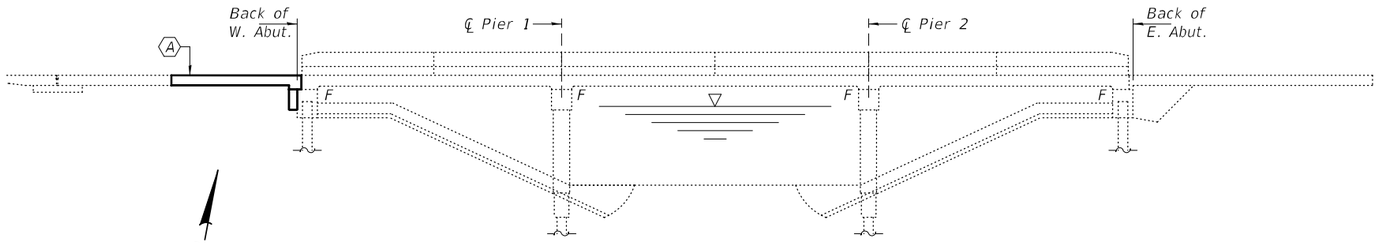
USER NAME = mbolling	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 10/20/2021	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

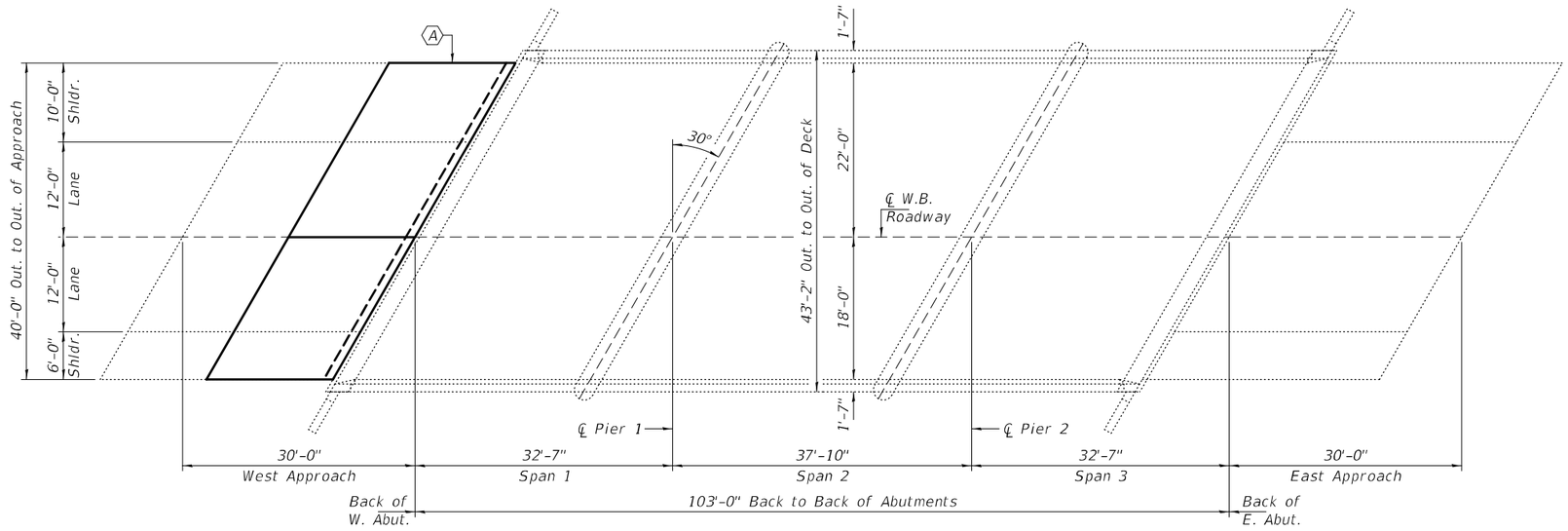
US 20 CROSSING SUMNER CREEK
TRAFFIC CONTROL STAGE 2 PLAN SHEET

SCALE: 1"=50' | SHEET 8 OF 8 SHEETS | STA. 1472+00 TO STA. 1534+70

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	18BR)RS	STEPHENSON	11	8
		CONTRACT NO. 64R32		
	ILLINOIS FED. AID PROJECT			

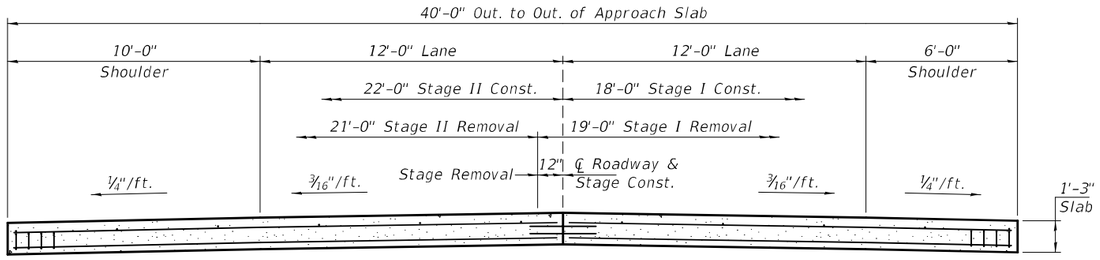


ELEVATION



PLAN

(A) - Remove & Replace 16'-0" of Approach Slab



CROSS SECTION THRU WEST APPROACH

(Looking East)

GENERAL NOTES

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 at the unit price bid for the work.

Reinforcement bars designated (E) shall be epoxy coated.

Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.

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.

TOTAL BILL OF MATERIAL

	ITEM	UNIT	QUANTITY
	Approach Slab Removal	Sq. Yd.	82.1
	Concrete Superstructure	Cu. Yd.	35.6
	Concrete Structures	Cu. Yd.	4.9
	Reinforcement Bars, Epoxy Coated	Pound	5920
	Mechanical Splicers	Each	120
	Bar Splicers	Each	27
	Protective Coat	Sq. Yd.	82.1
*	Deck Slab Repair (Partial Depth)	Sq. Yd.	5.0

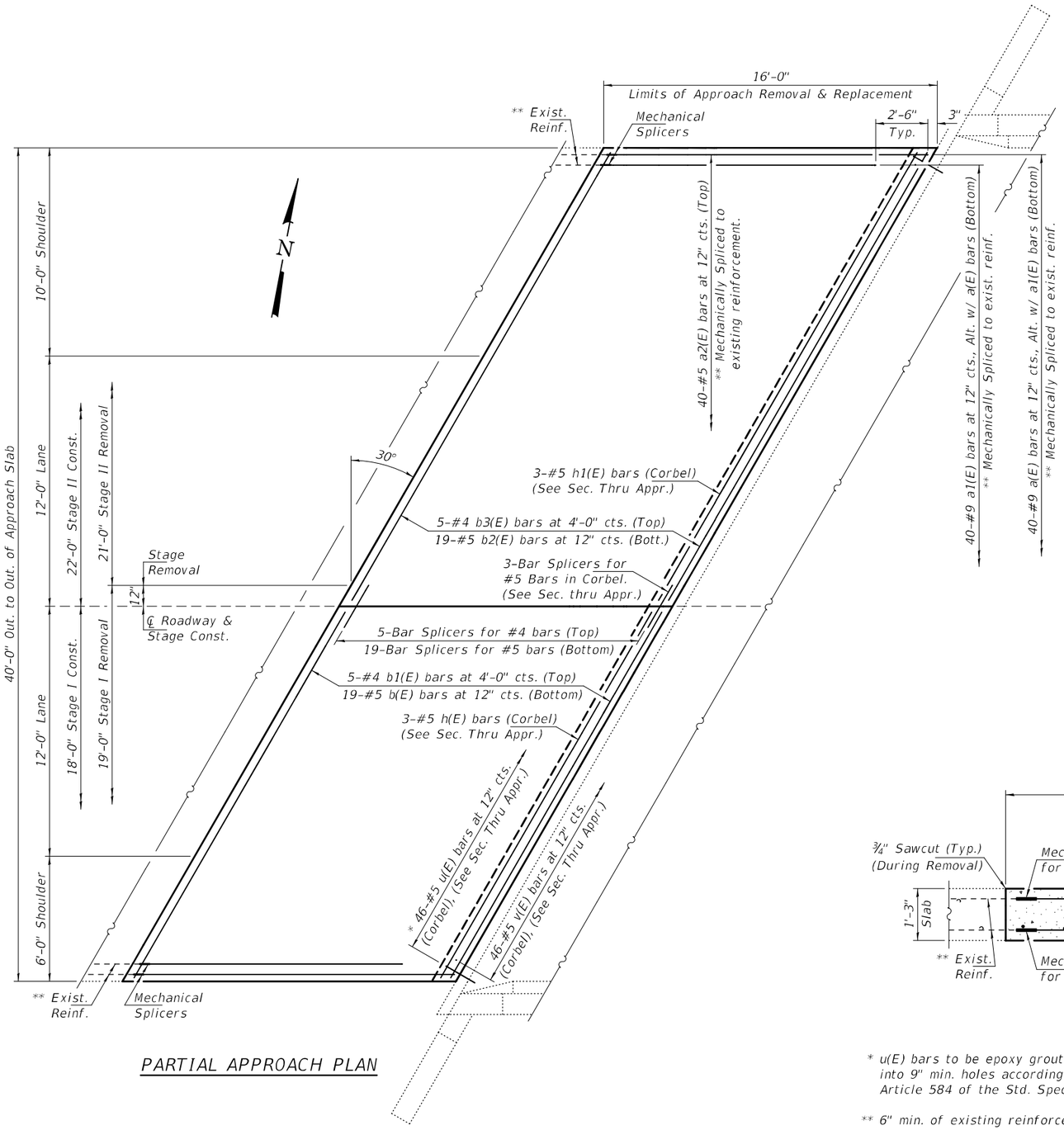
* Quantity is estimated, actual location and size of patches to be determined by the Engineer in the field.

LICENSED STRUCTURAL ENGINEER
DAVID CARL PUZEY
081-005470
SPRINGFIELD ILLINOIS
STATE OF ILLINOIS

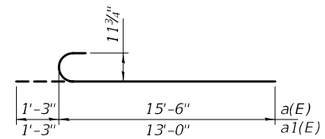
Expires: November 30, 2022

DESIGNED - Stephen M. Ryan	EXAMINED		DATE - DECEMBER 6, 2021	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL PLAN AND ELEVATION U.S. ROUTE 20 (W.B.) OVER SUMNER CREEK SN 089-0074
CHECKED - Adrian T. Halloway		ENGINEER OF STRUCTURAL SERVICES			SHEET NO. 1 OF 3 SHEETS
DRAWN - STEFFEN	PASSED		REVISED -		
CHECKED - SMR ATH		ENGINEER OF BRIDGES AND STRUCTURES	REVISED -		

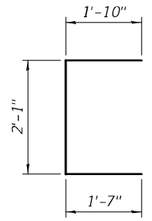
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	(18BR)RS	STEPHENSON	11	9
		CONTRACT NO. 64R32		
	ILLINOIS FED. AID PROJECT			



PARTIAL APPROACH PLAN



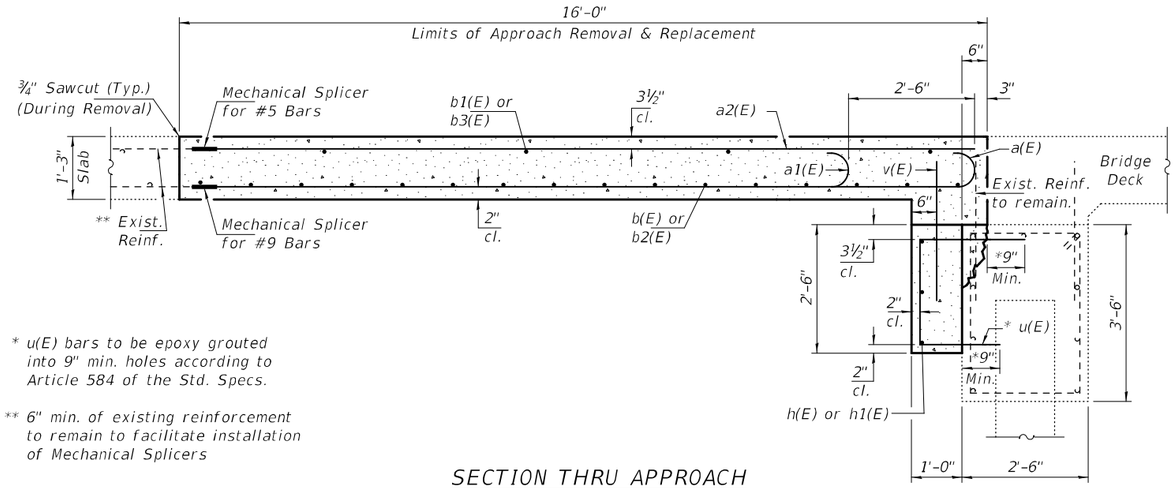
BARS a & a1



* BAR u(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	40	#9	16'-9"	
a1(E)	40	#9	14'-3"	
a2(E)	40	#5	15'-8"	
b(E)	19	#5	20'-2"	
b1(E)	5	#4	20'-2"	
b2(E)	19	#5	25'-0"	
b3(E)	5	#4	25'-0"	
h(E)	3	#5	20'-2"	
h1(E)	3	#5	25'-0"	
u(E)	46	#5	5'-6"	
v(E)	46	#5	2'-9"	
Appr. Slab Removal			Sq. Yd.	71.1
Concrete Superstructure			Cu. Yd.	35.6
Concrete Structures			Cu. Yd.	4.9
Reinforcement Bars, Epoxy Coated			Pound	5920
Mechanical Splicers			Each	120
Bar Splicers			Each	27
Protective Coat			Sq. Yd.	71.1

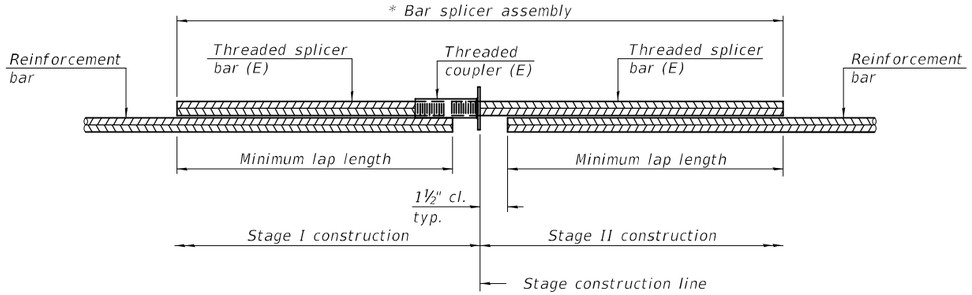


* u(E) bars to be epoxy grouted into 9" min. holes according to Article 584 of the Std. Specs.

** 6" min. of existing reinforcement to remain to facilitate installation of Mechanical Splicers

SECTION THRU APPROACH

DESIGNED - SMR	EXAMINED		DATE - DECEMBER 6, 2021	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	APPROACH & ABUTMENT REPAIR DETAILS SN 089-0074	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED - ATH		ENGINEER OF STRUCTURAL SERVICES				301	(18BR)RS	STEPHENSON	11	10
DRAWN - STEFFEN	PASSED		REVISED -					CONTRACT NO. 64R32		
CHECKED - SMR ATH		ENGINEER OF BRIDGES AND STRUCTURES	REVISED -		SHEET NO. 2 OF 3 SHEETS			ILLINOIS FED. AID PROJECT		



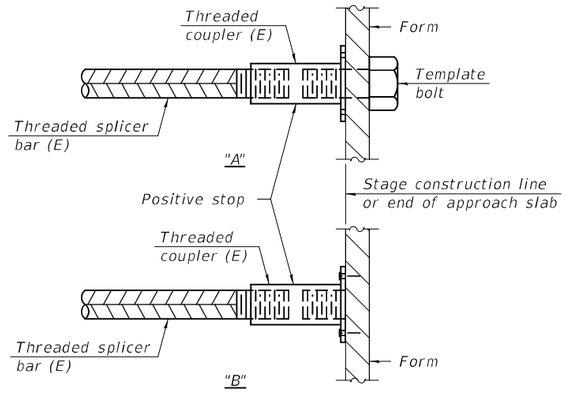
STANDARD BAR SPLICER ASSEMBLY PLAN

(All components shall be provided from one supplier)

Threaded splicer bar length = min. lap length + 1½" + thread length

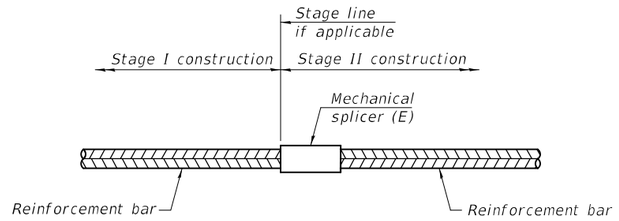
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
W. Appr. Slab	#4	5	2'-8"
W. Appr. Slab	#5	19	3'-0"
W. Appr. Corbel	#5	3	3'-6"



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
W. Appr. Slab	#5	40
W. Appr. Slab	#9	80

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 - SMR	EXAMINED	Timothy A. Bradley ENGINEER OF STRUCTURAL SERVICES	DATE - DECEMBER 6, 2021	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS SN 089-0074**
CHECKED - ATH					
DRAWN - STEFFEN	PASSED	D. Carl Tenney ENGINEER OF BRIDGES AND STRUCTURES	REVISED -		
CHECKED - SMR ATH			REVISED -		SHEET NO. 3 OF 3 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	(18BR)RS	STEPHENSON	11	11
		CONTRACT NO. 64R32		
	ILLINOIS	FED. AID PROJECT		