



INDEX OF SHEETS

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LIST OF HIGHWAY STANDARDS

STANDARD NO.	DESCRIPTION
000001-07	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND FOOT
701006-05	OFF-ROAD OPERATIONS, MULTILANE, 15' TO 24" FROM EDGE OF PAVEMENT
701201-05	LANE CLOSURE, 2L,2W, DAY ONLY, FOR SPEEDS > = 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701321-17	LANE CLOSURE, 2L,2W, BRIDGE REPAIR WITH BARRIER
701901-08	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER

FILE NAME = JSER NAME = shawleres DESIGNED -REVISED INDEX OF SHEETS; HIGHW STATE OF ILLINOIS w:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Do DOT Offices\District 5\Projects\D570C97\CADData cDRAMMO0C97_sht_Index.dgn REVISED & GENERAL N LOT SCALE = 40.0000 ' / in. HECKED REVISED **DEPARTMENT OF TRANSPORTATION** PLOT DATE = 11/19/2018 SCALE: SHEET 1 OF 1 SHEETS MODELNAMES DATE REVISED

G.N.-100

ENGLISH UNITS OF MEASUREMENT SHALL GOVERN OVER AND SUPERSEDE ANY METRIC UNITS SHOWN IN THIS CONTRACT. WHERE INCLUDED, METRIC UNITS ARE FOR INFORMATION ONLY.

G.N. 105.09A

ALL ELEVATIONS SHOWN IN THE PLANS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988. (NAVD 88)

G.N.-406

THE QUANTITIES INCLUDED IN THE PLANS FOR HOT-MIX ASPHALT RESURFACING ARE INTENDED TO GIVE THE COVERAGE SHOWN ON THE TYPICAL CROSS SECTIONS. IT IS NOT INTENDED TO INCREASE THE THICKNESS OF THE HOT-MIX ASPHALT MIXTURE IN ORDER TO USE ALL OF THE QUANTITIES INCLUDED IN THE CONTRACT.

G.N.-406H

MIXTURE REQUIREMENTS

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

Location	IL 1	IL 1
Mixture Use	Surface &	Shoulders
	Top lift of Shoulders	(Bottom 4 1/2")
AC/PG	PG 64-22	PG 64-22
Design Air Voids	4.0% @ Ndes=50	4.0% @ Ndes=50
MIx Comp(Gradation)	IL 9.5	IL 19.0
Friction Aggregate	Mix D	N.A.
Mixture Weight	112	112
Quality Management Program	QC/QA	QC/QA
Sublot Size	N.A.	N.A.

G.N.-482

ALL LOW ESAL MIXTURE PLACED AS HOT-MIX ASPHALT SHOULDERS SHALL BE COMPACTED TO 94.0 – 98.4 PERCENT OF THE MAXIMUM THEORETICAL DENSITY. THIS REQUIREMENT SHALL APPLY TO IL 9.5L GRADATION MIXES. THIS MAXIMUM DENSITY SHALL BE DETERMINED FROM THE MOVING AVERAGE OF FOUR TESTS AS IN OTHER QC/QA TESTING. A NUCLEAR GAUGE DENSITY/CORE CORRELATION SHALL BE PERFORMED FOR THE IL 9.5L USING STANDARD CORRELATION PROCEDURES WHEN MORE THAN 3,000 TONS ARE TO BE PLACED.

SEE R.E. FILE FOR CALCULATIONS AND SCHEDULES.

THERE ARE NO COMMITMENTS ASSOCIATED WITH THIS PROJECT.

GENERAL NOTES

WAY STANDARDS			F.A.P. RTE	SEC	FION		COUNTY	TOTAL SHEETS	SHEET NO.		
INTES			332	(48X-3)BR-2			VERMILION	25	2		
							CONTRACT NO. 70C97				
5	STA.	TO STA.			ILLINOIS	FED. A	ID PROJECT				

SUMMARY OF QUANTITIES

			VERMILION CO.
			FAP 332 (IL-1)
			RURAL / TWO LANE
			BRIDGE DECK REPAIR
			S.N. 092-0033
			80% FEDERAL / 20% STATE
			0059
CODE			
NO.	ITEM	UNIT	QUANTITY
20200100	EARTH EXCAVATION	CU YD	41.0
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	222.0
40603415	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5FG, N50	TON	25.0
48203100	HOT-MIX ASPHALT SHOULDERS	TON	83.0
50102400	CONCRETE REMOVAL	CU YD	2.1
50300255	CONCRETE SUPERSTRUCTURE	CU YD	2.7
50300260	BRIDGE DECK GROOVING	SQ YD	981.0
50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	630.0
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	330.0
50800515	BAR SPLICERS	EACH	8.0
52100020	ELASTOMERIC BEARING ASSEMBLY, TYPE II	EACH	12.0
52100520	ANCHOR BOLTS 1"	EACH	48.0
67000500	ENGINEER'S FIELD OFFICE, TYPE B	CAL MO	6.0
67100100	MOBILIZATION	LSUM	1.0
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1.0

* SPECIALTY ITEM

FILE NAME =	USER NAME = shawleres	DESIGNED -	REVISED -		SUMMARY OF QUANTITIES		F.A.P. BTE	SECTION	COUNTY	TOTAI		ΞT					
pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documer	s\IDOT Offices\District 5\Projects\D570C97\CADData\SI	ruc DR:A%0511 0C97_sht_SOQ.dgn	REVISED -	STATE OF ILLINOIS		0				22		332	(48X-3)BR-2	VERMILION	25	3	<u> </u>
	PLOT SCALE = 40.0000 / in	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	5.11. 092-0035				<u> </u>		CONTRAC	T NO.	70C9	_			
SMODELNAMES	PLOT DATE = 10/16/2018	DATE -	REVISED -		SCALE:	SHEET 1	OF	3 SHI	EETS	STA.	TO STA.		ILLINOIS FED. A	ID PROJECT			_

SUMMARY OF QUANTITIES

FAP 332 (II-1) RURAL / TWO LANE BRIDGE DECK REPAR S.N. 092-0033 0009 S0% FEDERAL / 20% STATE 0009 0009 0000 ITEM 0100400 TRAFFIC CONTROL AND PROTECTION, STANDARD 701201 0100400 TEMPORARY BRIDGE TRAFFIC SIGNALS 0100400 TEMPORARY BRIDGE TRAFFIC SIGNALS 0100400 TEMPORARY CONCRETE BARRIER 70400100 TEMPORARY CONCRETE BARRIER 70400200 RELOCATE TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3 70400200 RELOCATE TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3 70400200 MPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3 70400200 MPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3 70400100 MPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3 70400100 MPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3 70400100 MPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3 70401100 MPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3 70401100 MPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3 70401100 MPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3 70401100 MPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3 70401100 MPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3 <th></th> <th></th> <th></th> <th>VERMILION CO.</th>				VERMILION CO.
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70600350 IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3 EACH 2.0 X4401198 HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH SQ YD 249.0 X4401198 HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH SQ YD 249.0 X7200201 WIDTH RESTRICTION SIGNING Image: Construction signing for the second sec	70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2.0
70600350 IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3 EACH 2.0 X4401198 HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH SQ YD 249.0 X4401198 HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH SQ YD 249.0 X7200201 WIDTH RESTRICTION SIGNING LSUM 1.0 X7200201 WIDTH RESTRICTION SIGNING LSUM 1.0 Z0001899 JACK AND REMOVE EXISTING BEARINGS EACH 12.0 Z0006014 BRIDGE DECK LATEX CONCRETE OVERLAY, 2 1/2 INCHES SQ YD 1,053.0 Z0012130 BRIDGE DECK SCARIFICATION 3/4" SQ YD 1,053.0 Z0012754 STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES) SQ FT 52.0 Z0013798 CONSTRUCTION LAYOUT L SUM 1.0				
X4401198 HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH SQ YD 249.0 X4401198 HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH SQ YD 249.0 X7200201 WIDTH RESTRICTION SIGNING Image: Comparison of the second secon	70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2.0
X4401198 HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH SQ YD 249.0 X4001198 HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH SQ YD 249.0 X7200201 WIDTH RESTRICTION SIGNING Image: Construction Signing Image: Construction Signing Image: Construction Signing X7200201 WIDTH RESTRICTION SIGNING Image: Construction Signing Image: Construction Signing Image: Construction Signing Z0001899 JACK AND REMOVE EXISTING BEARINGS EACH 12.0 Z0001809 JACK AND REMOVE EXISTING BEARINGS EACH 1.0 Z0001809 JACK AND REMOVE EXISTING BEARINGS EACH 1.053.0 Z0001809 JACK AND REMOVE EXISTING OVERLAY, 2 1/2 INCHES SQ YD 1.053.0 Z0012130 BRIDGE DECK SCARIFICATION 3/4" SQ YD 1.053.0 Z0012754 STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES) SQ FT 52.0 Z0013798 CONSTRUCTION LAYOUT L SUM 1.0				
Image: Construction layout Image: Constructin layout Image: Construction layout	X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	249.0
X7200201 WIDTH RESTRICTION SIGNING LSUM 1.0 Z0001899 JACK AND REMOVE EXISTING BEARINGS EACH 12.0 Z0006014 BRIDGE DECK LATEX CONCRETE OVERLAY, 2 1/2 INCHES SQ YD 1,053.0 Z0012130 BRIDGE DECK SCARIFICATION 3/4" SQ YD 1,053.0 Z0012754 STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES) SQ FT 52.0 Z0013798 CONSTRUCTION LAYOUT L SUM 1.0				
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Z0012130 BRIDGE DECK SCARIFICATION 3/4" SQ YD 1,053.0 Z0012754 STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES) SQ FT 52.0 Z0013798 CONSTRUCTION LAYOUT L SUM 1.0				-
Z0012754 STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES) SQ FT 52.0 Z0013798 CONSTRUCTION LAYOUT L SUM 1.0	Z0012130	BRIDGE DECK SCARIFICATION 3/4"	SQ YD	1,053.0
Z0012754 STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES) SQ FT 52.0 Z0013798 CONSTRUCTION LAYOUT L SUM 1.0				
Z0013798 CONSTRUCTION LAYOUT L SUM 1.0	Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	52.0
Z0013798 CONSTRUCTION LAYOUT L SUM 1.0				
	Z0013798	CONSTRUCTION LAYOUT	L SUM	1.0

* SPECIALTY ITEM

FILE NAME =	USER NAME = shawleres	DESIGNED -	REVISED -			SUMMARY OF OUANTITIES		F.A. P. BTE	SECTION	COUNTY	TOTAL SHEET
pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documen	s\IDOT Offices\District 5\Projects\D570C97\CADData\Str	uc DRAWAEN 0C97_sht_SOQ.dgn	REVISED -	STATE OF ILLINOIS				332	(48X-3)BR-2	VERMILION	25 4
	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	5.N. 092-0033					CONTRACT	NO. 70C97
\$MODELNAME\$	PLOT DATE = 10/16/2018	DATE -	REVISED -		SCALE:	SHEET 2 OF 3 SHEETS STA.	TO STA.		ILLINOIS FED. AI	ID PROJECT	

SUMMARY OF QUANTITIES

			VERMILION CO.
			FAP 332 (IL-1)
			RURAL / TWO LANE
			BRIDGE DECK REPAIR
			S.N. 092-0033
			80% FEDERAL / 20% STATE
			0059
CODE			
NO.	ITEM	UNIT	QUANTITY
Z0016001	DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQ YD	10.0
Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	10.0
Z0021914	SILICONE JOINT SEALER, 2.75"	FOOT	68.0
Z0041895	POLYMER CONCRETE	CU FT	7.8
Z0073200	TEMPORARY SHORING AND CRIBBING	EACH	4.0

* SPECIALTY ITEM

FILE NAME =	USER NAME = shawleres	DESIGNED -	REVISED -			SUMMARY OF OUANTITIES		F.A.P.	SECTION	COUNTY	TOTAL	SHEET		
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	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	5.N. 092-0033						,	CONTRACT	NO. 70	JC97
SMODELNAMES	PLOT DATE = 10/16/2018	DATE -	REVISED -		SCALE:	SHEET 3 OF 3	SHEETS	STA.	TO STA.		ILLINOIS FED	D. AID PROJECT		

STAGE I CONSTRUCTION S.N. 092–0033



PLAN NOTES:

ALL STAGING DETAILS SHALL BE IN ACCORDANCE

STANDARD 701321 AND PAID FOR ATTHE CONTRACT

ALL WORK WITHOUT TEMPORARY CONCRETE BARRIER IN PLACE SHALL BE IN ACCORDANCE WITH TRAFFIC CONTROL AND PROTECTION STANDARDS

FOR ADDITIONAL DETAILS ASSOCIATED WITH

TEMPORARY CONCRETE BARRIER, SEE HIGHWAY

WITH TRAFFIC CONTROL AND PROTECTION

UNIT PRICE PER EACH LOCATION.

701201 AND 701206.

STANDARD 704001.

REFLECTORIZED TEMPORARY MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER, AND ALONGSIDE BOTH SIDES OF THE WORK AREA. EXISTING MARKINGS THAT CONFLICT WITH THE STAGED TRAFFIC MARKINGS SHALL BE REMOVED OR COVERED. COST TO REMOVE EXISTING MARKINGSAND FOR THE PLACEMENT AND REMOVAL OF TEMPORARY MARKINGS SHALL BE INCLUDED WITH TRAFFIC CONTROL AND PROTECTION STANDARD 701321.

REFLECTORS SHALL BE ATTACHED TO GUARDRAIL AT 25 FOOT CENTERS. COST TO BE INCLUDED WITH TRAFFIC CONTROL AND PROTECTION STANDARD 701321.

EARTH EXCAVATION Stage I & II							
		Begin	End	Length	Shldr Width	Depth	Removal
Structure	Side	Station	Station	(foot)	(foot)	(foot)	(cu yd)
	Northbound	905+50	908+31	281.0	2.0	0.5	10.41
	Northbound	911+31	914+00	269.0	2.0	0.5	9.96
092-0033	Southbound	905+50	908+31	281.0	2.0	0.5	10.41
	Southbound	911+31	914+00	269.0	2.0	0.5	9.96
						Totals	40.74

STAGE II CONSTRUCTION S.N. 092–0033



Item
Earth Exc
Hot-Mix A:
Temporary
Relocate T
Impact Ati
Impact Ati

FILE NAME =	USER NAME = shawleres	DESIGNED - ESS	REVISED -			TEMPORARY CONCRETE B	F.A.P. RTE	SECTION	COUNTY	TOTAL SHEET	SHEET	
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	PLOT SCALE = 100.0000 ' / in.	CHECKED - TJB	REVISED -	DEPARTMENT OF TRANSPORTATION		5.10. 092-00			CONTRACT	ſNO.	0C97	
SMODELNAMES	PLOT DATE = 10/18/2018	DATE -	REVISED -		SCALE:	SHEET 1 OF 1 SHEETS	STA. TO STA.		ILLINOIS FED	AID PROJECT	л	

Impact Attenuators, Temporary (Non-Redirective), Test Level 3		
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Pre-Stage HMA Shoulder Widening, 6"

(Earth Excavation & HMA Shoulders)

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	HOT-MIX A	SPHALT SHO	OULDERS (Pr	e-Stage HMA	Shoulder 6")	Stage I & II	
		Begin	End	Length	Shldr Width	Area	HMA
Structure	Side	Station	Station	(foot)	(foot)	(sq yd)	Tons
	Northbound	905+50	908+31	281.0	2.0	62.45	20.98
	Northbound	911+31	914+00	269.0	2.0	59.78	20.09
092-0033	Southbound	905+50	908+31	281.0	2.0	62.45	20.98
	Southbound	911+31	914+00	269.0	2.0	59.78	20.09
					Totals	244.46	82.14



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BILL OF MATERIAL

	Unit	Total
vation	Cu Yd	41.0
phalt Shoulders	Tons	83.0
Concrete Barrier	Foot	600.0
emporary Concrete Barrier	Foot	600.0
enuators, Temporary (Non-Redirective), Test Level 3	Each	2.0
enuators, Relocate (Non-Redirective), Test Level 3	Each	2.0





SCALE:

REVISED -

SMODELNAMES

PLOT DATE = 6/13/2018

DATE

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Item	Unit	Total
Hot-Mix Asphalt Surface Removal, Variable Depth	Sq Yd	249.0
Hot-Mix Asphalt Surface Course, IL 9.5 FG, N50	Ton	25.0

APF	APPROACH TRANSITION DETAILS								SEC	TION		COUNTY	TOTAL SHEETS	SHEET NO.
S N 092-0033							332	(48X-	3)BR-2		VERMILION	25	8	
	5.11. 092-0035										CONTRAC	T NO. 70	C97	
SHEET 1 OF 1 SHEETS STA. TO STA.							ILLINOIS	FED. A	D PROJECT					

Structure 092-0033 Was Built In 1940 As SBI 1, Section 48X-3B At Station 909+81 By The State Of Illinois In Vermilion County. The Deck Was Replaced In 1986 As FAP 132, Section 48X-3BR At Station 909+81. In 2005 Day Labor Project 02F512 Removed And Replaced The Bearings And Joints At Both Abutments. The Scour Issue At This Structure Was Mitigated In 2010 As Section D5-SCOUR MITIGATION 2009-3 At Station 909+81. In 2016 Day Labor Project 16G507 Replaced Diaphragms And Completed Beam End Repairs. The Existing Structure Is A Four Span Steel Beam Structure On Untreated Timber Pile Supported Open Abutments And Piers. The Structure Measures 259'-11⁵8" Back To Back Of Abutments With An Out To Out Width Of 35'-2" And A Face To Face Parapet Width Of 32'-0".

Elev. 665.30

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ELEVATION VIEW

<u>Elev.</u> 665.30

Work Shall Be Completed With Stage Construction.



Elev

665.30

670.30



Reinforcement Bars Designated (E) Shall Be Epoxy Coated.

Plan Dimensions And Details Relative To The 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 Work, However, The Contractor Will Be Paid For The Quantity Actually Furnished At The Unit Price Bid For The Work.

Joint Openings Shall Be Adjusted According To Article 520.04 Of The Standard Specifications When The Deck Is Poured At An Ambient Temperature Other Than 50°F.

Prior To Pouring The New Concrete Deck, All Heavy Or Loss Rust, Loose Mill Scale And Other Loose Or Potentially Detrimental Foreign Material Shall Be Removed From The Surface In Contact With Concrete, Removal Shall Be Accomplished By Methods That Will Not Damage The Steel And The Cost Will Be Included In The Pay Item Covering Removal Of Existing Concrete.

(Elevations from As-Built	f Plans for Perspective Only)	Synthetic Fibers Shall Be Added To The Bridge Deck Latex Concrete Overlay. See Special Provisions.
Bk. So. Abut. Sta. 909+09.79 Bk. So. Abut. Elev. 685.48 Sta. 908+51.04 I.I.I. Stage I I.I.I. Construction I.I.I. Stage II I.I.I. Stage II I.I.I. Stage II I.I.I.	E Pier 2 Sta. 909+81.00 Elev. 685.55 Elev. 685.48 Bk. No. Abut. Sta. 910+52.29 Elev. 685.48 Bk. No. Abut. Sta. 911+11.01 Elev. 685.33	 Existing Structural Steel That Will Be In Contact With New Structural Steel Shall Be Cleaned And Painted Prior To Erection As Required By The GBSP "Cleaning And Painting Contact Surface Areas Of Existing Steel Structures". All New Structural Steel and Bearing Assemblies Shall Be Hot Dipped Galvanized. See Special Provisions for "Hot Dip Galvanizing For Structural Steel". A Visual Deck Survey Was Performed on May 09, 2017, Determined Full Depth Patching Would Not Be Required. Should Areas For Full-Depth Patching Be Identified After Bridge Deck Scarification, The R.E. shall Show Them On The Bridge Deck Patching Sheet Provided. See Special Provisions "Deck Slab Repair" For Additional Requirements Pertaining To Deck Slab Repair.
58'-9" 71'-2'2" 259'-1 bk. to bk	71'- 3 ¹ / ₂ " 58'- 8 ⁵ / ₈ "	BILL OF MATERIAL Item Unit Total Concrete Removal Cu Yd 2.1 Concrete Superstructures Cu Yd 2.7 Furnishing And Erecting Structural Steel Pound 630.0 Reinfersement Park (Form Control) Reund 370.0
PLAN 10.387% 10.37% 10.37% 10.387% 10.387% 10.387% 10.387% 10.387%	VIEW PUZEY OS1-005470 SELENCE OFFICED A Cultury VI5/19	Nember Centern Burs (Epoxy Correct)From StateBar SplicersEach8.0Elastomeric Bearing Assembly, Type IIEach12.0Anchor Bolts, 1"Each48.0Bridge Deck GroovingSq Yd981.0Jack And Remove Existing BearingsEach12.0Bridge Deck Latex Concrete Overlay, 2^{l_2} "Sq Yd1053.0Bridge Deck Scarification 3_4 "Sq Yd1053.0Bridge Deck Scarification 3_4 "Sq Yd52.0Structural Repair Of Concrete (Depth Equal To Or Less Than 5")Sq Yd52.0Silicone Joint Sealer, 2^{3}_4 "Foot68.0Polymer ConcreteCu Ft7.8Deck Slab Repair (Full Depth, Type I)SO YD10.0Deck Slab Repair (Full Depth, Type II)SO YD10.0Temporary Shoring and Cribbingeach4.0
FILE NAME = USER NAME = strowfores DESIGNED - RTC REVISED - pxrt12.084EBIDINTEGEInols.gov-PWIDOTDocuments/DDT Odcs/Disktc 50/Project/D570C97/CADData/Structures/D57DC9RAM/Bivige.dgn RTC REVISED - pxrt12.084EBIDINTEGEInols.gov-PWIDOTDocuments/DDT Odcs/Disktc 50/Project/D570C97/CADData/Structures/D57DC9RAM/Bivige.dgn RTC REVISED - pxrt12.084EBIDINTEGEInols.gov-PWIDOTDocuments/DDT Odcs/Disktc 50/Project/D570C97/CADData/Structures/D57DC9RAM/Bivige.dgn RTC REVISED - sMCDEUNAMES PLOT DATE = 10/15/2018 DATE - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL PLAN & ELEVATION F.A. P. RTE. SECTION COUNTY TOTAL SHEETS SHEETS S.N. 092-0033 332 (48X-3)BR-2 VERMILION 25 9 SHEET 1 OF 14 SHEETS STA. TO STA. ILLINOIS FED. AD PROJECT

All Structural Steel Shall Conform To AASHTO Classification M-270 Gr. 50, Unless Otherwise Noted.



s	SS SECTIONS			SEC.	SECTION			TOTAL SHEETS	SHEET NO.		
ი				(48X-3)BR-2		VERMILION 25 1				
							CONTRAC	C97			
s	STA. TO STA.				ILLINOIS	FED. AI	D PROJECT				
s	STA.	TO STA.			ILLINOIS	FED. All	D PROJECT	T NO. 70	C9		



1	ION DETAILS		F.A.P. RTE	SEC	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
n	033			(48X-3)BR-2		VERMILION	11	
							CONTRACT NO. 70C		
s	STA. TO STA.				ILLINOIS	FED. AI	D PROJECT		



SCALE:

\$MODELNAME\$

PLOT DATE = 1/15/2019

DATE

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REVISED -

Item	Unit	Total
Bridge Deck Scarification ${}^{3}_{4}$ "	Sq Yd	1053.0
Bridge Deck Latex Concrete Overlay 2 ¹ 2"	Sq Yd	1053.0
Bridge Deck Grooving	Sq Yd	981.0

A	CE PLAN		F.A.P. RTE	SEC.	TION		COUNTY	TOTAL SHEETS	SHEET NO.	
033		332	(48X-3)BR-2		VERMILION	25	12		
						CONTRACT NO. 70C9				
s	S STA. TO STA.				ILLINOIS	FED. A	D PROJECT			



FILE NAME =	USER NAME = shawleres	DESIGNED -	ESS	REVISED -		CONCRETE F	REMOVAL	& C	ONCR		IPERSTRUCTURE	DETAILS	F.A.P.	SECTION	COUN	TY TOT	AL SHE	ET
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	PLOT SCALE = 40.0000 ' / In.	CHECKED -	TJB	REVISED -	DEPARTMENT OF TRANSPORTATION		5.N. 092-0033		3			(CONT	RACT NO	. 70C97	7		
\$MODELNAME\$	PLOT DATE = 6/13/2018	DATE -		REVISED -		SCALE:	SHEET 5	OF	14 S	SHEETS S	STA. TO ST	A.		ILLINOIS F	ED. AID PROJECT			

BAR	NO.	SIZE	LENGTH	SHAPE
a(E)	8	#5	15'-9''	
h(E)	8	*6	15'-9''	
	1			
Concre	ete Remo	val	Cu Yd	2.1
Concre Supers	ete structure		Cu Yd	2.7
Reinfo (Epoxy	rcement Coated,	Pound	330.0	
Bar Splicers			Each	8.0



SECTION AT EXISTING JOINT





Silicone Polyme

SECTION AT PROPOSED JOINT

FILE NAME =	USER NAME = shawleres	DESIGNED - ESS	REVISED -				F.A. P. RTE	SECTION	COUNTY TOTAL SHEET SHEETS NO.			
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	PLOT SCALE = 40.0000 '/ In.	CHECKED - TJB	REVISED -	DEPARTMENT OF TRANSPORTATION	5.14. 092-0035					CONTRACT NO. 70C97		
\$MODELNAME\$	PLOT DATE = 6/13/2018	DATE -	REVISED -		SCALE: SHEET 6 OF 14 SHEETS STA.		TO STA.		ILLINOIS FED. AI) PROJECT		



<u>BILL OF MATERIAL</u>

Item	Unit	Total
e Joint Sealer, 2 ³ 4"	Foot	68.0
er Concrete	Cu Ft	7.8



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 size	No. assemblies required	Minimum Iap length
Hatch Blocks	#6	4	4'-0"
Deck Ends	#5	4	3'-0"



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.



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BSD-1



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.

LY AND MECHANICAL SPLICER DETAILS			F.A. P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
			332 (48X-3)BR-2 VERMILION 2			25	15		
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Item	Unit	Total
Structural Repair Of Concrete	Sa Et	52.0
(Depth Less Than Or Equal To 5")	5411	52.0
Temporary Shoring And Cribbing	Each	4.0

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BILL OF MATERIAL

Quantities Included for Both Abutments



BEAM REACTIONS

R₽	(K)	18.0
R4	(K)	.31.7
Imp.	(K)	8.7
R (Total)	(K)	58.4

Notes:

Diaphragm removal and reinstallation may be required to facilitate drilling holes. Cost included with Furnishing and Erecting Structural Steel.

New steel extensions, shim plates and connection bolts are included with Furnishing and Erecting Structural Steel. Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions. Adjustment must account for deck heave due to pack rust (if present).

Min. jack capacity = 30 Tons. Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (Fy=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

Anchor bolts at fixed bearings may be either cast in place or installed in holes drilled after the supported member is in place.

Anchor bolts for Type II bearings shall be placed in holes drilled through the bottom bearing plate after members are in place. Side retainers shall be placed after bolts are installed.

Drilled and set anchor bolts shall be installed according

to Article 521.06 of the Standard Specifications. Side retainers shall be included in the cost of Elastomeric Bearing Assembly, Type II. The b'' PTFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces.

Bonding of ${}_{\theta}''$ PTFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.



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(Move bott. brg. away from fixed brg.) (Move bott. brg. toward fixed brg.)

TYII/REPS 12-03-2008			<u>SIDE RETAINER</u> Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.	<u>SETTING ANCHOR BOLTS A</u> $D = {}'_8'' per each 100' of expansion forchange from the normal temp.$
DESIGNED SMR CHECKED -	_	DATEJANUARY 15, 2019	STATE OF ILLINOIS	ABUTMENT BEARING REPLA
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CHECKED SMR	ENGINEER OF BRIDGES AND	STRUCTURES REVISED		SHEET NO. 9 OF 14 S

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ILLINOIS FED. AID PROJECT

HEETS



	Unit	Total
o Repair (Full Depth, Type I)	SQ YD	10.0
o Repair (Full Depth, Type II)	SQ YD	10.0

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- 2. ALL (B) SIGNS SHALL HAVE FLAGS INSTALLED UNLESS OTHERWISE DIRECTED.
- 3. LOCATIONS OF TRAFFIC CONTROL DEVICES MAY BE ADJUSTED BY THE ENGINEER.
- 4. ALL TRAFFIC CONTROL SHOWN ON THIS SHEET SHALL BE PAID FOR AT THE CONTRACT LUMP SUM PRICE FOR WIDTH RESTRICTION SIGNING.
- 5. ALL SIGNS SHALL BE POST MOUNTED UNLESS OTHERWISE DIRECTED.
- 6. ALL SIGNS SHOWN ORANGE (0) SHALL BE FLUORESCENT ORANGE.
- 7. ALL SIGNS SHOWN SHALL CONSIST OF THE CURRENT RETROREFLECTIVE SHEETING REQUIREMENTS AS OUTLINED IN SECTION 1106.01 OF THE STANDARD SPECIFICATIONS BOOK.

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Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

<u>S.N. 092–0033</u>

WIDTH RESTRICTION SIGNINGS FOR IL-1 NORTHBOUND TRAFFIC



NORTHBOUND ERECT BY JUCTION IL-119 SIGN 7 MILES AHEAD



NORTHBOUND ERECT BY NORTH IL-1 SIGN INCLUDE 7.0 MILE AHEAD SIGN





NORTHBOUND ERECT BY SCHOOL SPEED LIMIT 20MPH AHEAD SIGN INCLUDE 2.0 MILE AHEAD SIGN







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ION SIGNING	F A P RTE	SECTION	COUNTY	TOTAL SHEETS	SH N
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2.0 MILES

<u>S.N. 092–0033</u>

WIDTH RESTRICTION SIGNINGS FOR IL-1 SOUTHBOUND TRAFFIC



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SOUTHBOUND ERECT BY SOUTH IL-1 SIGN INCLUDE 3.0 MILE AHEAD SIGN

3.0 MILES



SOUTHBOUND ERECT BY JUCTION IL-119 SIGN 3 MILES AHEAD

