STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

14-12HB-P 112BR-2-P CLINTON 11 1 ILLINOIS CONTRACT NO. 76T40

FOR INDEX OF SHEETS, SEE SHEET NO. 2

TRAFFIC DATA

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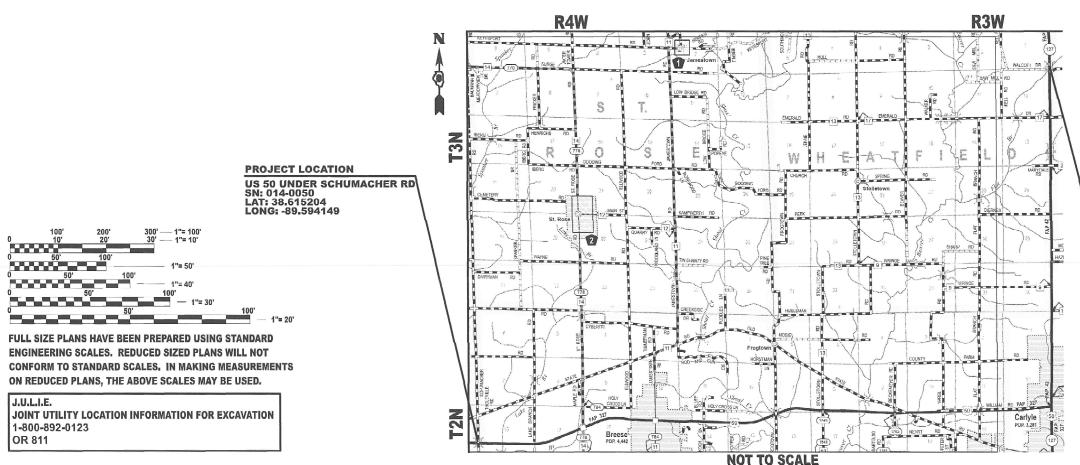
SN: 014-0063 2023 ADT = 3150 (ACTUAL) 2024 ADT = 3200 (ESTIMATED) 2044 ADT = 3700 (ESTIMATED) MU = 14.3%

SN: 014-0050 2023 ADT = 6850 (ACTUAL) 2024 ADT = 6900 (ESTIMATED) 2044 ADT = 8100 (ESTIMATED) SU = 4.0% MU = 10.2%

PROPOSED HIGHWAY PLANS

FAP ROUTE 327/42 (US 050/ IL 127) SECTION 14-12HB-P, 112BR-2-P PROJECT NHPP-STP-2LRS(437) **BRIDGE PAINTING CLINTON COUNTY**

C-98-158-24



GROSS/NET LENGTH = 418 FT. = 0.079 MILE

LOCATION OF SECTION INDICATED THUS: -

D-98-007-24

PROJECT LOCATION

IL 127 OVER FLAT BRANCH CREEK SN: 014-0063 LAT: 38,727010 LONG: -89.371936

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION SUBMITTED FEBRUARY 1 20 24 KILL Browns March 22, 202 ENGINEER OF DESIGN AND ENVIRONMENT March 22, 2024 DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

CONTRACT NO. 76T40

PROJECT ENGINEER: BILLIE OWEN

PROJECT MANAGER: MEIWU AN

INDEX OF SHEETS

- COVER SHEET INDEX OF SHEETS, STANDARDS, GENERAL NOTES, AND COMMITMENTS SUMMARY OF QUANTITIES
- SCHEDULE OF QUANTITIES
 TRAFFIC CONTROL AND PROTECTION, STANDARD 701321 (SPECIAL) FOR SN: 014-0063
 STRUCTURE DETAILS 014-0050
- STRUCTURE DETAILS 014-0063

HIGHWAY STANDARDS

STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
DECIMAL OF AN INCH AND OF A FOOT
OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 m) AWAY
OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
TRAFFIC CONTROL DEVICES
TEMPORARY CONCRETE BARRIER
GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS 000001**-**08 001006 701001-02 701006-05 701321-18 701901-09

GENERAL NOTES

AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS:

UTILITY	ABOVE GROUND	BELOW GROUND
AT&T ILLINOIS (COMMUNICATIONS)	X	Х
METRO (COMMUNICATIONS)	х	Х

THE RESIDENT ENGINEER SHALL VERIFY THE EXISTENCE OF HIGHWAY LIGHTING, INTELLIGENT TRANSPORTATION SYSTEMS (I.T.S.) UTILITIES, AND/OR ELECTRICAL CABLES ASSOCIATED WITH TRAFFIC SIGNALS WITHIN THE PROJECT LIMITS, IF ANY OF THESE EXIST WITHIN THE PROJECT LIMITS, AND IF THESE ITEMS REQUIRE LOCATING, THE CONTRACTOR SHALL BE DIRECTED TO DO SO ACCORDING TO SECTION 803 OF THE STANDARD SPECIFICATIONS. THIS WORK SHALL BE PAID FOR ACCORDING TO ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

- TWO CHANGEABLE MESSAGE SIGNS SHALL BE REQUIRED FOR THIS PROJECT. THEY SHALL BE PLACED TWO WEEKS PRIOR TO ANY LANE CLOSURE AND SHALL REMAIN UP FOR THE DURATION OF THE PROJECT. THE CHANGEABLE MESSAGE SIGNS SHALL BE PLACED ALONG IL-127 AND US 50 OR AT THE DIRECTION OF THE ENGINEER.
- ALL TURF AREAS DISTURBED BY THE CONTRACTOR SHALL BE SEEDED WITH THE APPROPRIATE EROSION CONTROL, AS DIRECTED BY THE ENGINEER, AT THE CONTRACTOR'S EXPENSE.
- 5. THE SSPC-QP1 AND QP-2 CERTIFICATIONS WILL BE REQUIRED FOR THESE BRIDGES.
- FOR LOCATION 1 (SN 014-0063), CLEANING AND PAINTING OF THE EXISTING STRUCTURAL STEEL SHALL BE AS SPECIFIED IN THE SPECIAL PROVISION FOR "CLEANING AND PAINTING EXISTING STEEL STRUCTURES." ALL EXISTING STEEL WITHIN 10 FEET OF THE EXISTING DECK JOINTS (MEASURED ALONG THE BEAM), AND THE EXTERIOR SURFACES AND BOTTOM OF THE BOTTOM FLANGES OF THE FASCIA BEAMS SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING SHALL BE PAINTED ACCORDING TO THE REQUIREMENTS OF PAINT SYSTEM 1-OZ/E/U. FOR LOCATION 1, THE COLOR OF THE FINAL COAT FOR ALL SURFACES SHALL BE BROWN, FED STD 595C 30045. GALVANIZED BEARINGS AND DIAPHRAGMS ARE EXEMPT FROM CLEANING AND PAINTING. IF DAMAGE OCCURS TO THE GALVANIZED BEARINGS OR DIAPHRAGMS, THE CONTRACTOR SHALL REPAIR TO THE SATISFACTION OF THE RESIDENT ENGINEER, AND NO FURTHER COMPENSATION WILL BE ALLOWED.
- FOR LOCATION 2 (SN 014-0050), CLEANING AND PAINTING OF THE EXISTING STRUCTURAL STEEL SHALL BE AS SPECIFIED IN THE SPECIAL PROVISION FOR "CLEANING AND PAINTING EXISTING STEEL STRUCTURES." ALL EXISTING STEEL SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP10. ALL EXISTING STEEL CLEANED PER NEAR WHITE BLAST CLEANING SHALL BE PAINTED ACCORDING TO THE REQUIREMENTS OF PAINT SYSTEM 1-0Z/E/U. FOR LOCATION 2, THE COLOR OF THE FINAL FINISH COAT FOR ALL SURFACES SHALL BE GRAY (MUNSELL NO 5B 7/1).
- FOR LOCATION 2, A MINIMUM OF TWO AIR MONITORS WILL BE REQUIRED TO MONITOR ABRASIVE BLAST OPERATIONS AT THIS SITE. SEE SPECIAL PROVISION FOR "CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES."
- NO SURVEY WAS PERFORMED FOR THIS PROJECT AND THE PLANS WERE CREATED USING MICROFILM AND FIELD MEASUREMENTS.

COMMITMENTS

NONE

REV. - MS

CONTRACT NO. 76T40

11

COUNTY

CLINTON I

JSER NAME = Joseph.Arteen DESIGNED -REVISED -SECTION INDEX OF SHEETS, HIGHWAY STANDARDS, STATE OF ILLINOIS DRAWN REVISED -GENERAL NOTES, AND COMMITMENTS 327/42 14-12HB-P, 112BR-2-P PLOT SCALE = 0.16666633 ' / in CHECKED -REVISED -**DEPARTMENT OF TRANSPORTATION** SHEET 1 OF 1 SHEETS STA. SCALE: TO STA. PLOT DATE = 1/25/2024 REVISED -DATE

80% FED 20% STATE CONSTRUCTION CODE

				CONSTRUC	TION CODE
				STP	NHPP
				RURAL	RURAL
				BRIDGE	BRIDGE
CODE			TOTAL	0047	0047
	LTEM				
NO.	ITEM	UNIT	QUANTITY	014-0063	014-0050
67100100	MODILIZATION	L SUM	1	0 5	0.5
67100100	MOBILIZATION	LSUM	1	0.5	0.5
		+			
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	0	1
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	2	1	1
70106700	TEMPORARY RUMBLE STRIPS	EACH	12	6	6
		1			
70107005	PAVEMENT MARKING BLACKOUT TAPE, 5"	FOOT	2756	1 5 / 1	1215
70107003	PAVEIVIENT IVARRING BLACKOUT TAFE, 3	FOOT	2756	1541	1215
		 			
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	138	69	69
		1			
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	1148	642	506
70400100	TEMPORARY CONCRETE BARRIER	FOOT	612.5	375	237.5
		1			
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	237.5	0	237.5
		-			
70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	4	2	2
			,		-
70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	0	2
70000330	IN ACT ATTENDATORS, RELOCATE (NON-REDIRECTIVE), TEST EEVELS	LACIT			
VEG. 0.0 :		1			_
X5060601	CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES NO. 1	L SUM	1	1	0
X7010202	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321 (SPECIAL)	EACH	1	1	0
	1	1			
Z0007102	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 2	L SUM	1	0	1
		<u> </u>			

80% FED 20% STATE

				CONSTRUC [*]	TION CODE
				STP	NHPP
				RURAL	RURAL
				BRIDGE	BR I DGE
CODE			TOTAL	0047	0047
NO.	ITEM	UNIT	QUANTITY	014-0063	014-0050
Z0010501	CLEANING AND PAINTING STEEL BRIDGE NO. 1	L SUM	1	1	0
Z0010502	CLEANING AND PAINTING STEEL BRIDGE NO. 2	L SUM	1	0	1

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USER NAME = Joseph.Arteen	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.16666633 ' / in.	CHECKED -	REVISED -
PLOT DATE = 2/1/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:

SUMMARY OF QUANTITIES						SECTION	COUNTY TOTA		SHEET NO.
30	INIMINIA	UF QUA	WIIIIE9		327/42	14-12HB-P, 112BR-2-P	CLINTON	11	3
							CONTRACT	NO. 76	Γ40
SHEET 1	1 OF 1 SHEETS STA. TO STA.					ILLINOIS FED. AI	D PROJECT		

		WORK	ZONE TRA	AFFIC CON	ITROL SCH	DULE			
LOCATION	LENGTH	TEMPORARY BRIDGE TRAFFIC SIGNALS	TEMPORARY RUMBLE STRIPS	PAVEMENT MARKING BLACKOUT TAPE, 5"	SHORT TERM PAVEMENT MARKING REMOVAL	TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER	IMPACT ATTENUATORS, TEMPORARY (NON REDIRECTIVE), TEST LEVEL 3	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3
ROUTE & STRUCTURE NUMBER	FOOT	EACH	EACH	FOOT	SQFT	FOOT	FOOT	EACH	EACH
US 50									
US 50 UNDER SCHUMACHER RD									
SN 014-0050	540	1	6	1215	506	237.5	237.5	2	2
IL 127 OVER FLAT BRANCH RD									
SN 014-0063	685	1	6	1541	642	375	0	2	0
TOTAL		2	12	2756	1148	612.5	237.5	4	2

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 USER NAME
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 PLOT DATE
 = 2/1/2024
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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

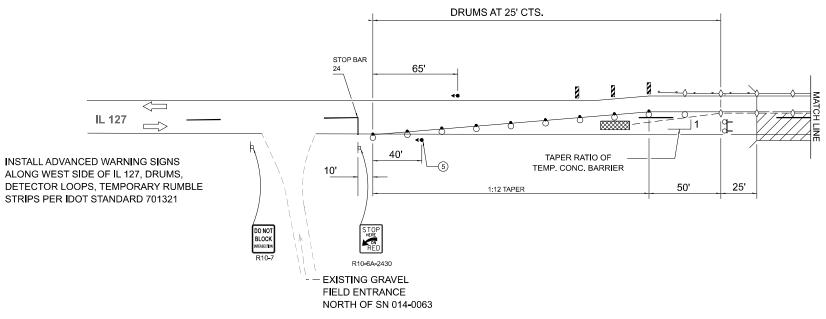
SCALE:

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	•	эсп	EDUL	E UF QU	ANIIII	ES	327/42	14-12HB-P, 112BR-2-P	CLINTON	11	4
									CONTRACT	NO. 76	Γ40
	SHEET 1		OF 1	SHEETS	STA.	TO STA.		ILLINOIS FED AL	D PROJECT		



NOTE

- THE TRAFFIC CONTROL LAYOUT SHALL FOLLOW IDOT HIGHWAY STANDARD
 701321 FOR DETAILS NOT SHOWN ON THIS TRAFFIC CONTROL PLAN
- 2. THE CONTRACTOR SHALL EXERCISE CARE WHEN PLACING TEMPORARY CONCRETE BARRIER TO ENSURE THAT THE SPACE BETWEEN PARAPET WALL/ GUARDRAIL AND THE TEMPORARY CONCRETE BARRIER SHALL NOT BE LESS THAN 17-6° FOR TRAVELING PUBLIC



SYMBOLS

WORK AREA

◆ DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT

▼ SIGN

TEMPORARY CONCRETE BARRIER

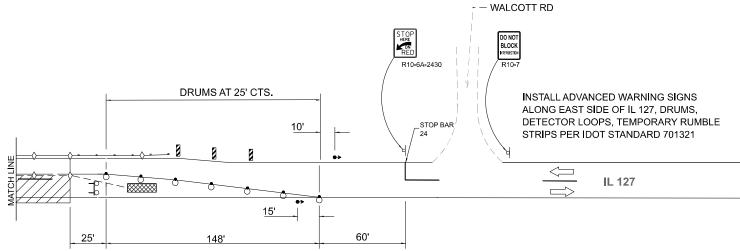
DOUBLE VERTICAL PANEL (SEE DETAIL)

TRAFFIC SIGNAL

◇ CRYSTAL, BIDIRECTIONAL GUARDRAIL/BARRIER WALL REFLECTOR

MMACT ATTENUATOR

○ DRUM



USER NAME = Joseph.Arteen	DESIGNED -	REVISED -
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PLOT DATE = 1/30/2024	DATE -	REVISED -

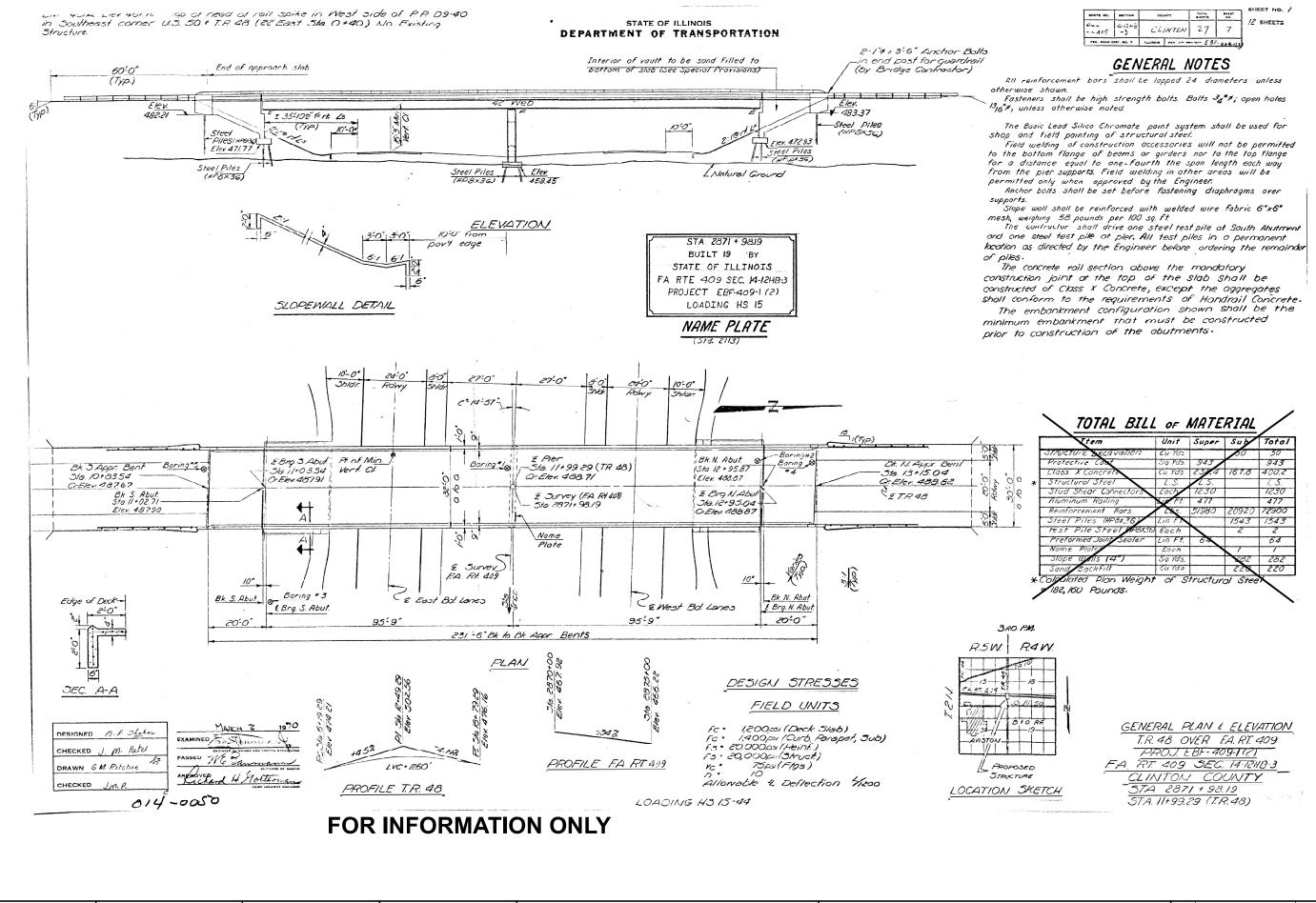
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:

SHEET

TRAFFIC	CONTRO	L PLAN		F.A.P RTE.	SECT	ION		COUNTY	TOTAL SHEETS	SHEET NO.
FOR	SN: 014-0	063		327/42	14-12HB-P,	112BR-2	-P	CLINTON	11	5
								CONTRACT	NO. 76	Г40
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MODEL: Traffic Control-1 [Sheet]

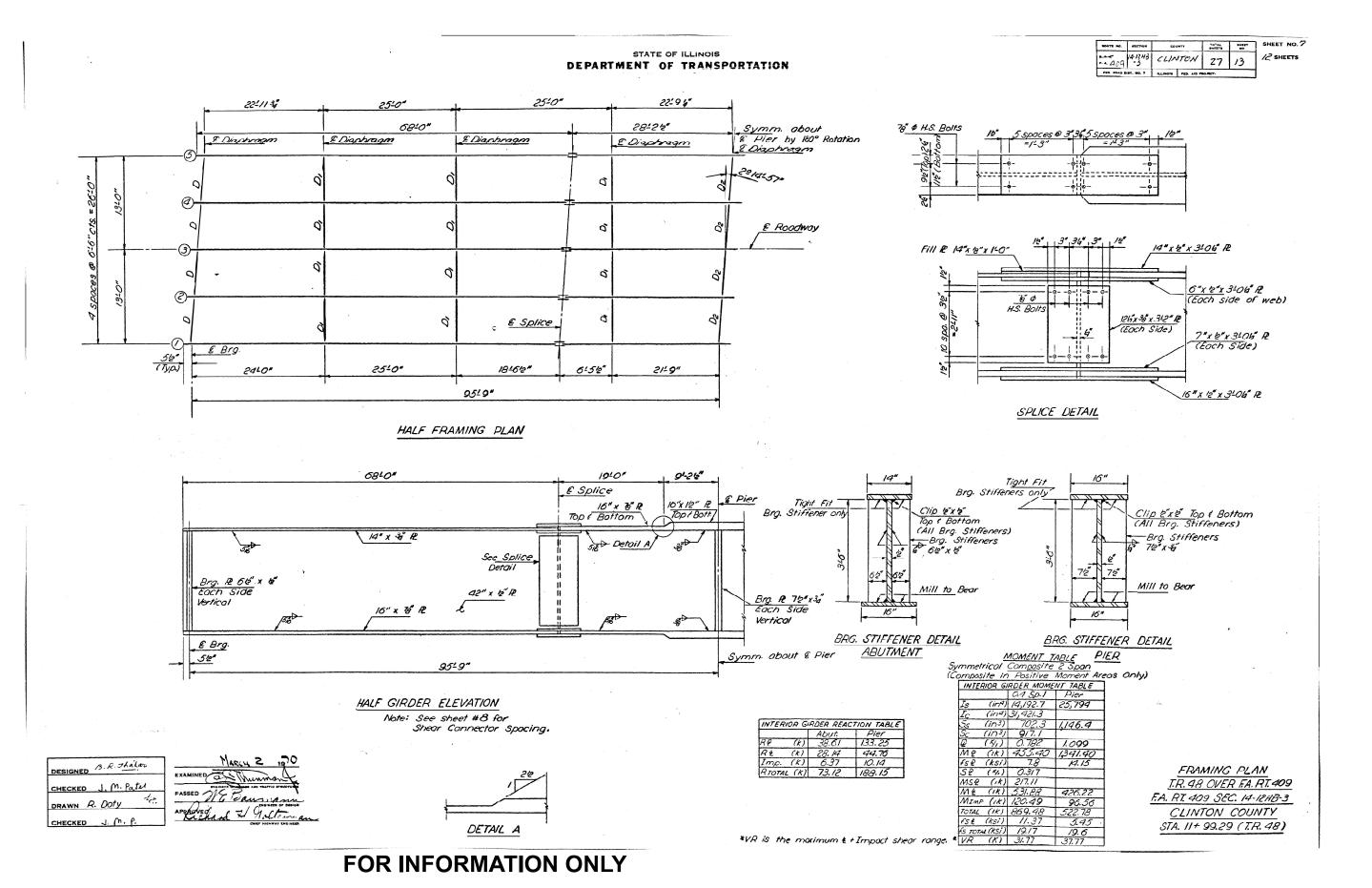
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE DETAILS
014-0050

OF SHEETS STA. TO STA

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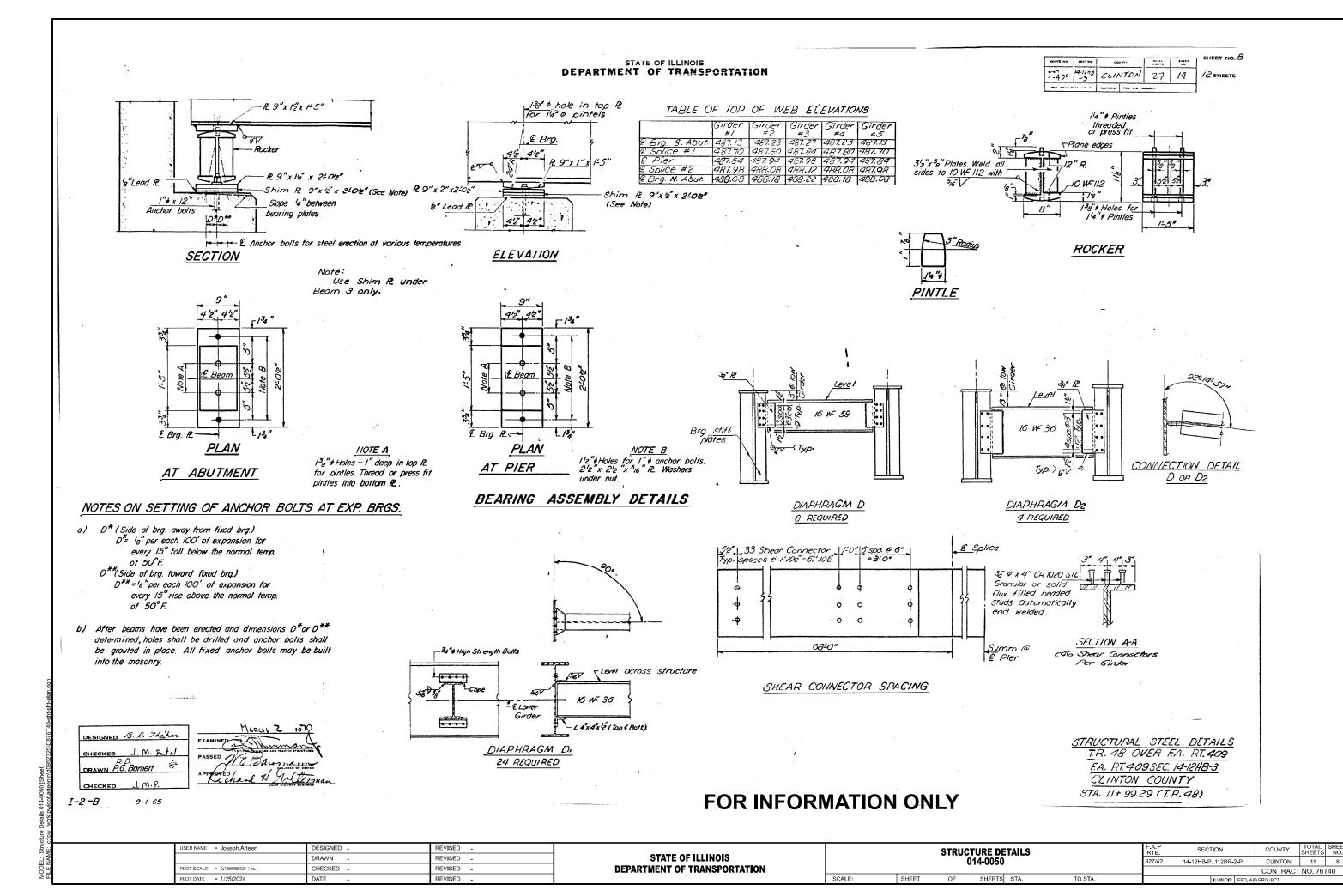
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		DRAWN -	REVISED -		014-0050					327/42	14-12HB-P, 112BR-2-P
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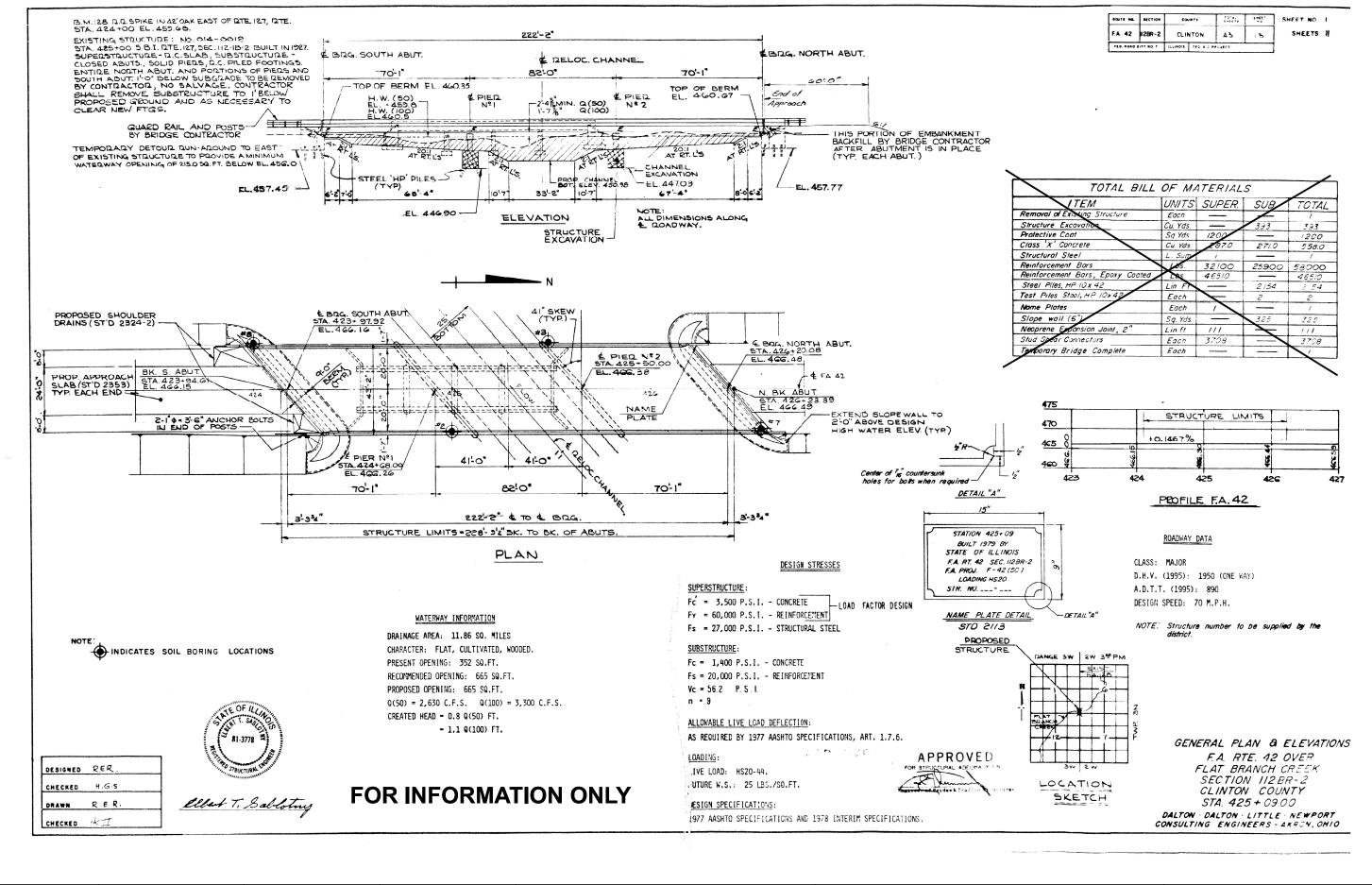
COUNTY

CLINTON

CONTRACT NO. 76T40

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MODEL: Structure Details 014-0063

JSER NAME = Joseph.Arteen

LOT DATE = 1/25/2024

DESIGNED -

CHECKED -

DRAWN

DATE

REVISED REVISED -

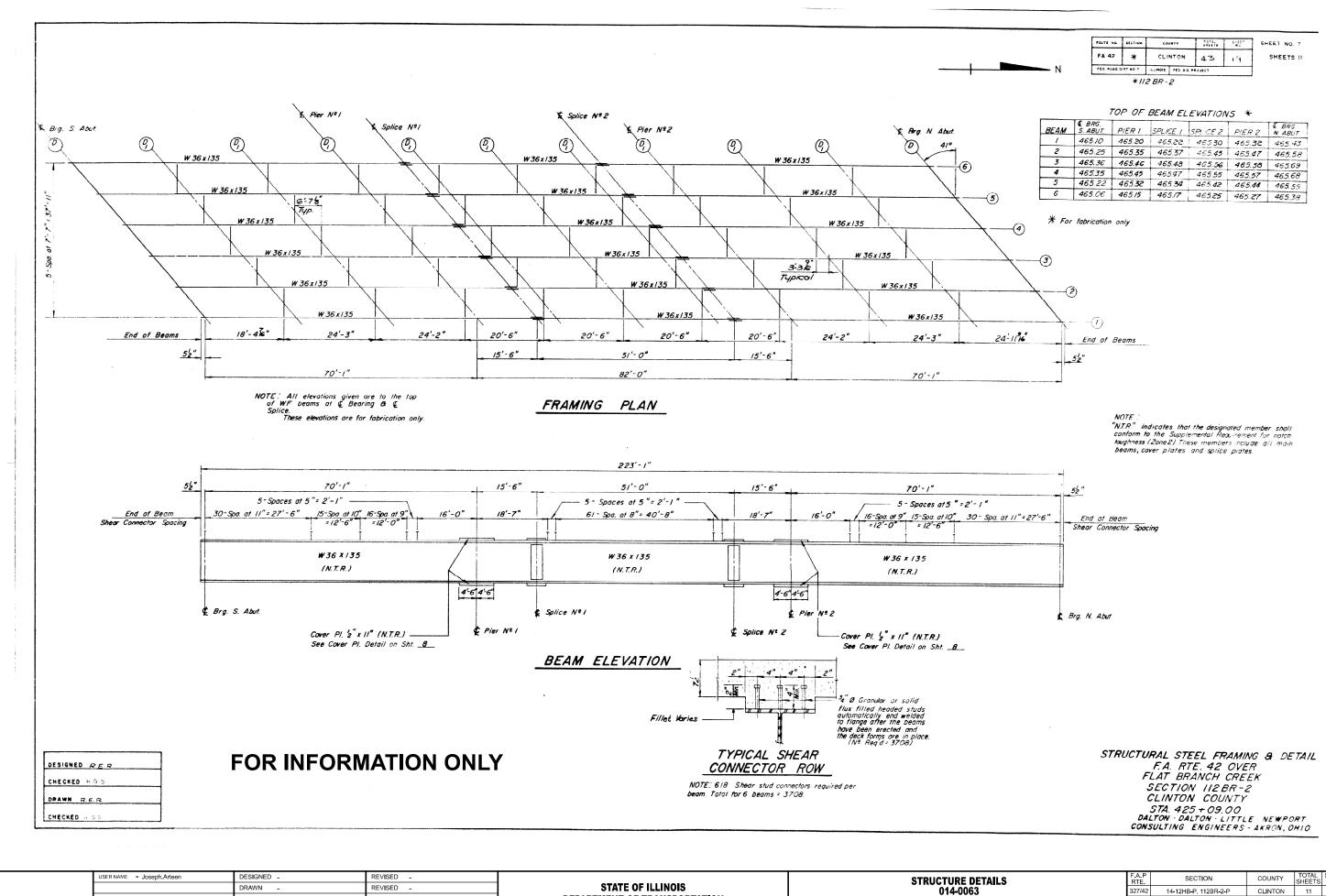
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:

SHEET

| F.A. P | SECTION | COUNTY | SHEETS | STA. | TO STA. | TO STA. | TO STA. | SHEETS | STA. | TO STA. | TO STA. | SHEETS | STA. | TO STA



PLOT DATE = 1/25/2024

CHECKED -REVISED -DATE REVISED

DEPARTMENT OF TRANSPORTATION

014-0063 SHEETS STA. TO STA. OF

SHEET

CONTRACT NO. 76T40

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

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COMMENT	SHEETS		SHEET NO.
LINTON	43	20	SHEETS
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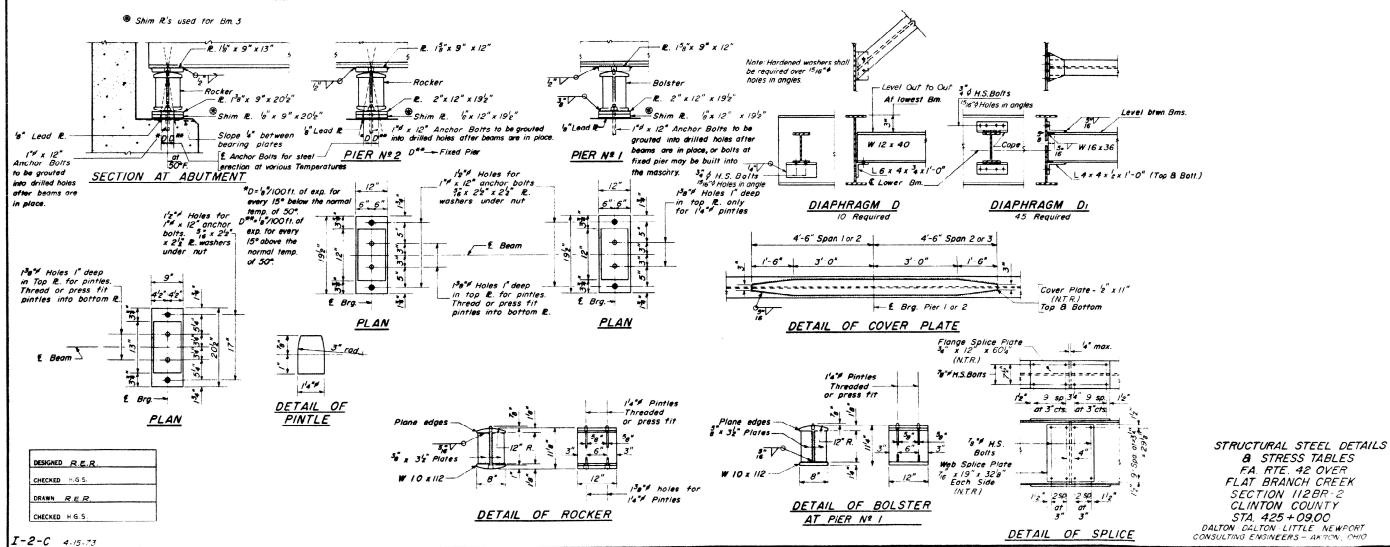
INTERIOR BEAM MOMENT TABLE						
		0.4 Sp. 1 or 3	Pier or 2	0.5 Sp. 2		
/s	(in4)	780 0	//374	7800		
/c	(in4)	19773		19773		
Ss	(in3)	439	622	439		
Sc	(in3)	631		631		
e	(k/·)	0.885	0.922	0.885		
Me	('k)	306	539	206		
fs-non-comp.(ksi)		8.4	10.4	5.6		
SQ	(k/·)	0.298	0. 298	0.29 8		
Mse	('k)	120	147	108		
ME	('k)	577	372	578		
Mimp. ('k)		149	89	140		
TOTAL ('k)		846	608	826		
fs-comp. (ksi)		16.1	11. 7	15 7		
fstotal (ksi)		24.5	22.1	21.3		
VR	(K)	58		49		

3 - Span Symmetrical Structure Composite in Positive Moment

INTERIOR BEAM REACTION TABLE						
		Abut.	Pier			
Re	(k)	31.5	100.4			
RŁ	(k)	42.0	56.6			
Ітр.	(k)	10.7	13.7			
RTOTAL	(k)	84.2	170.7			

FOR INFORMATION ONLY

Is and Ss are the moment of inertia and section modulus of the steel section used in computing fs TOTAL. Ic and Sc are the moment of inertia and section modulus of the composite section used in computing is TOTAL. VR is the maximum & Impact shear range in span used to determine shear connector spacing.



JSER NAME = Joseph.Arteen DESIGNED -REVISED -DRAWN REVISED CHECKED -REVISED -DATE

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SHEET

SECTION COUNTY STRUCTURE DETAILS 014-0063 14-12HB-P, 112BR-2-P CLINTON 11 CONTRACT NO. 76T40 SHEETS STA.