

03-08-2019 LETTING ITEM 037

FOR INDEX OF SHEETS, SEE SHEET NO. 2

FOR LIST OF HIGHWAY STANDARDS, SEE SHEET NO. 2

PROJECT IS LOCATED IN CAPITAL AND WILLIAMS TOWNSHIPS

TRAFFIC DATA:

INTERSTATE 55

S.N. 084-0020 2015 ADT = 16,650
S.N. 084-0022 2015 ADT = 16,650
S.N. 084-0023 2015 ADT = 16,650
UNDER S.N. 084-0050 2015 ADT = 56,000
UNDER S.N. 084-0051 2015 ADT = 56,000

INTERSTATE 72

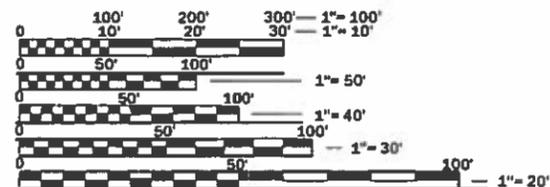
S.N. 084-0050 2015 ADT = 8,800
S.N. 084-0051 2015 ADT = 8,800

COOK STREET

S.N. 084-0103 2015 ADT = 100

DESIGN DESIGNATION = INTERSTATE (I-55/I-72)
LOCAL ROAD OR STREET (COOK STREET)

DESIGN SPEED = 65/70 MPH (I-55 & I-72, ASSUMED)
30 MPH (COOK STREET, ASSUMED)
POSTED SPEED = 65/70 MPH (I-55 & I-72)
30 MPH (COOK STREET, ASSUMED)



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 EXCAVATION
1-800-892-0123
OR 811

PROJECT ENGINEER: KEITH DONOVAN (217) 782-4761
PROJECT MANAGER: ED KERN (217) 524-7547

CONTRACT NO. 72J97

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS PROPOSED HIGHWAY PLANS

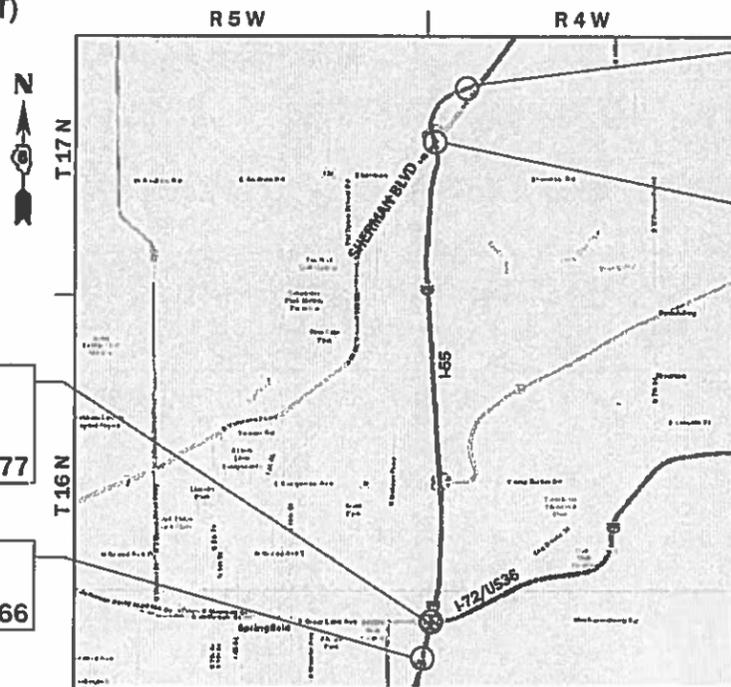
FAI ROUTES 55 & 72
SECTION: (84-2) & (84-3) BRR
PROJECT: NHPP 9Q6J (306)
STRUCTURE REPAIRS
SANGAMON COUNTY

C-96-061-17

* 98 + 1 = 99 TOTAL SHEETS

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(84-2) & (84-3) BRR	SANGAMON	98	1
		ILLINOIS	CONTRACT NO 72J97	

D-96-061-17



FANCY CREEK
S.N. 084-0022
S.N. 084-0023
STA 290+31 TO STA 292+02

SHERMAN INTERCHANGE
S.N. 084-0020
STA 344+56 TO STA 348+55

CLEAR LAKE AVE.
S.N. 084-0050
S.N. 084-0051
STA 46+24 TO STA 53+77

COOK ST.
S.N. 084-0103
STA 6+55 TO STA 11+66

CAPITAL AND WILLIAMS TOWNSHIPS

LOCATION MAP

NOT TO SCALE
GROSS LENGTH = 1,834 FT. = 0.35 MILES
NET LENGTH = 1,834 FT. = 0.35 MILES



Michael J. Haley 12-11-2018
MICHAEL T. HALEY, S.E.
ILLINOIS REGISTERED ENGINEER NO. 081-005991
REGISTRATION EXPIRES NOV. 30, 2020



Fred M. Lin 12/10/2018
FRED M. LIN, P.E.
ILLINOIS REGISTERED ENGINEER NO. 062-056704
REGISTRATION EXPIRES NOV. 30, 2019

LI LIN ENGINEERING, LTD.
Consulting Engineers
Westmont, Illinois

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
SUBMITTED *14 December 2018*
[Signature] REGIONAL ENGINEER
[Signature] ENGINEER OF DESIGN AND ENVIRONMENT
[Signature] DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

- 1 COVER SHEET
- 2 INDEX OF SHEETS AND GENERAL NOTES
- 3-9 SUMMARY OF QUANTITIES
- 10-11 SCHEDULES OF QUANTITIES
- 12-47 STAGING PLANS
- 48-52 ROADWAY PLANS
- * 53-98 STRUCTURAL PLANS

* INCLUDES SHEET 91A

HIGHWAY STANDARDS

- 000001-07 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001006 DECIMAL OF AN INCH AND OF A FOOT
- 610001-08 SHOULDER INLET WITH CURB
- 630001-12 STEEL PLATE BEAM GUARDRAIL
- 631011-10 TRAFFIC BARRIER TERMINAL, TYPE 2
- 631031-15 TRAFFIC BARRIER TERMINAL, TYPE 6
- 701321-17 LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
- 701326-04 LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS >= 45 MPH
- 701400-09 APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
- 701401-12 LANE CLOSURE, FREEWAY/EXPRESSWAY
- 701402-12 LANE CLOSURE, FREEWAY/EXPRESSWAY, WITH BARRIER
- 701406-12 LANE CLOSURE, FREEWAY/EXPRESSWAY, DAY OPERATIONS ONLY
- 701411-09 LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS >= 45 MPH
- 701422-10 LANE CLOSURE, MULTILANE, FOR SPEEDS >= 45 MPH to 55 MPH
- 701423-10 LANE CLOSURE, MULTILANE, WITH BARRIER, FOR SPEEDS >= 45 MPH to 55 MPH
- 701451-05 RAMP CLOSURE FREEWAY/EXPRESSWAY
- 701901-08 TRAFFIC CONTROL DEVICES
- 704001-08 TEMPORARY CONCRETE BARRIER
- 725001-01 OBJECT AND TERMINAL MARKERS
- 782006 GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

DISTRICT STANDARDS

- 780001a DISTRICT 6 PAVEMENT MARKING GUIDE

GENERAL NOTES

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE APRIL 1, 2016 EDITION OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", AND IN ACCORDANCE WITH IDOT'S "SUPPLEMENTAL SPECIFICATION AND RECURRING SPECIAL PROVISIONS" ADOPTED JANUARY 1, 2019. THE ENGINEER WILL RESOLVE ANY CONFLICT WHICH MAY EXIST BETWEEN THESE SPECIFICATIONS.
2. ANY AND ALL REFERENCES TO "ENGINEER" SHALL BE INTERPRETED AS THE RESIDENT ENGINEER.
3. PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO VARIATIONS FOUND IN THE FIELD. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING MATERIALS. ANY ADJUSTMENTS PROPOSED BY THE CONTRACTOR MUST BE APPROVED BY THE ENGINEER. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE OF WORK, HOWEVER THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED BASED UPON THE UNIT PRICE.
4. THE CONTRACTOR SHALL MAKE A REASONABLE EFFORT TO MINIMIZE THE SIZE OF DISTURBED AREAS. ALL AREAS DISTURBED BY THE CONTRACTOR OUTSIDE THE PROPOSED CONSTRUCTION LIMITS SHALL BE RESTORED AT THE CONTRACTOR'S EXPENSE.
5. IN ADDITION TO THE REQUIREMENTS OF ARTICLE 107.16, THE CONTRACTOR SHALL PROTECT THE SURFACE OF ALL BRIDGE DECKS AND BRIDGE APPROACH PAVEMENTS IN A MANNER SATISFACTORY TO THE ENGINEER BEFORE ANY EQUIPMENT IS ALLOWED TO CROSS THE STRUCTURE. PROTECTION SHALL BE PROVIDED FOR ALL EQUIPMENT AS DEFINED IN ARTICLE 107.16 REGARDLESS IF TRACK MOUNTED OR WHEELED.
6. EXISTING PAVEMENT CROSS SLOPES, SUPERELEVATION RATES, TRANSITION LENGTHS, AND SHOULDER CROSS SLOPES SHALL BE RETAINED WITH THE PROPOSED RESURFACING AND TEMPORARY PAVEMENT CONSTRUCTION.
7. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE, COUNTY, OR MUNICIPAL PROPERTY WITHOUT WRITTEN PERMISSION FROM THE JURISDICTIONAL AGENCY OR MUNICIPALITY.
8. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
9. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO ASSURE THAT NO DEBRIS FALLS INTO THE WATERWAYS. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF THE VARIOUS PAY ITEMS.
10. CONCRETE WASHOUT AREAS SHALL BE ADEQUATELY SIGNED AND MAINTAINED. CONCRETE WASHOUT SHALL NOT ENTER ANY DRAINAGE STRUCTURE.
11. THE CONTRACTOR SHALL ENSURE THAT ALL MUD, SEDIMENT, AND DEBRIS RESULTING FROM CONSTRUCTION RELATED ACTIVITIES SHALL BE CONTAINED WITHIN THE PROJECT LIMITS.
12. SAW CUTTING PRIOR TO ANY REMOVAL ITEMS NOTED ON THE PLANS OR DIRECTED BY THE ENGINEER SHALL BE CONSIDERED INCLUDED IN THE COST OF THE ITEMS BEING REMOVED.
13. THE CONTRACTOR SHALL USE CARE IN REMOVING OR EXCAVATING NEAR ALL EXISTING ITEMS WHICH WILL REMAIN. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

COMMITMENTS

NONE.

HOT- MIX ASPHALT MIXTURE REQUIREMENTS			
MIXTURE USE:	HMA SURFACE	HMA BASE	HMA SHOULDERS
PG GRADE:	SBS PG 70-22	PG 64-22	PG 64-22
DESIGN AIR VOIDS:	4.0% @ N90	4.0% @ N70	4.0% @ N50
MIXTURE COMPOSITION:	IL-9.5	IL-19.0	IL-9.5
FRICTION AGGREGATE:	MIX "E"	N/A	MIX "C"
QUALITY MANAGEMENT:	QC/QA	QC/QA	QC/QA
SUBLOT:	N/A	N/A	N/A

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

HMA BITUMINOUS MATERIALS (TACK COAT)	0.05 LB/SQFT (MILLED SURFACE) 0.025 LB/SQFT (BETWEEN HMA LIFTS)
HMA SURFACE/BASE/SOULDER	112 LB/SQYD/IN
NITROGEN FERTILIZER NUTRIENTS	90 LB/ACRE
PHOSPHORUS FERTILIZER NUTRIENTS	90 LB/ACRE
POTASSIUM FERTILIZER NUTRIENTS	90 LB/ACRE
AGRICULTURAL GROUND LIMESTONE	2 TON/ACRE

DISTRICT SIX

EXAMINED November 29th 20 18
John C. Cunningham
 OPERATIONS ENGINEER

EXAMINED Nov 28th 20 18
Scott D. Graham
 PROJECT IMPLEMENTATION ENGINEER

EXAMINED December 4 20 18
Jeffrey P. Meyer
 PROGRAM DEVELOPMENT ENGINEER

REV. - MS



USER NAME = lin	DESIGNED - RC	REVISED -
	DRAWN - RC	REVISED -
PLOT SCALE = 100.0000" / in.	CHECKED - FL	REVISED -
PLOT DATE = 12/11/2018	DATE = 12/20/18	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-55/I-72 STRUCTURE REPAIRS
INDEX OF SHEETS AND GENERAL NOTES**

SCALE: N.T.S.	SHEET 1 OF 1 SHEETS	STA. TO STA.	F.A.I. RTF: 55	SECTION (84-2) & (84-3) BRR	COUNTY SANGAMON	TOTAL SHEETS 98	SHEET NO. 2
						CONTRACT NO. 72197	
ILLINOIS FED. AID PROJECT							

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE					
				6-01029-0000	6-01029-0000	6-01029-0000	6-01126-0000	6-01126-0000	6-01126-0000
				90% FED 10% ST	90% FED 10% ST	90% FED 10% ST	90% FED 10% ST	90% FED 10% ST	90% FED 10% ST
				BRIDGE	BRIDGE	BRIDGE	BRIDGE	BRIDGE	BRIDGE
				0047	0047	0047	0047	0047	0047
URBAN				084-0020	084-0022	084-0023	084-0050	084-0051	084-0103
20200500	EARTH EXCAVATION (WIDENING)	CU YD	65				25	40	
20400800	FURNISHED EXCAVATION	CU YD	9				3	6	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	30				12	18	
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	30				12	18	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	30				12	18	
25000700	AGRICULTURAL GROUND LIMESTONE	TON	0.5				0.2	0.3	
25100115	MULCH, METHOD 2	ACRE	0.25				0.10	0.15	
35501324	HOT-MIX ASPHALT BASE COURSE, 10"	SQ YD	7,396	1,311	1,982	2,126	871	874	232
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	2,400	121	123	155	881	885	235
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	2,276	320	340	435	598	583	
40603570	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N90	TON	565	22	20	25	249	249	
44004250	PAVED SHOULDER REMOVAL	SQ YD	7,164	1,311	1,982	2,126	871	874	
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	38				19	19	
48203100	HOT-MIX ASPHALT SHOULDERS	TON	758	147	222	238	76	75	

* SPECIALTY ITEM

REV. - MS



USER NAME = Lin	DESIGNED - RC	REVISED -
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PLOT SCALE = 100.0000' / in.	CHECKED - FL	REVISED -
PLOT DATE = 12/13/2018	DATE - 12/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-55/I-72 STRUCTURE REPAIRS
SUMMARY OF QUANTITIES**

SCALE: N.T.S. SHEET 1 OF 7 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(84-2) & (84-3) BRR	SANGAMON	98	3
ILLINOIS FED. AID PROJECT			CONTRACT NO. 72197	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE					
				6-01029-0000	6-01029-0000	6-01029-0000	6-01126-0000	6-01126-0000	6-01126-0000
				90% FED 10% ST					
				BRIDGE	BRIDGE	BRIDGE	BRIDGE	BRIDGE	BRIDGE
				0047	0047	0047	0047	0047	0047
				084-0020	084-0022	084-0023	084-0050	084-0051	084-0103
50102400	CONCRETE REMOVAL	CU YD	64.5	10.0	7.2	8.7	17.7	18.3	2.6
50157300	PROTECTIVE SHIELD	SQ YD	2,575	780			759	759	277
50300225	CONCRETE STRUCTURES	CU YD	47.6				23.8	23.8	
50300255	CONCRETE SUPERSTRUCTURE	CU YD	73.1	11.3	8.2	10.0	19.7	21.3	2.6
50300300	PROTECTIVE COAT	SQ YD	8,339	2,045	859	1,052	1,775	1,775	833
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	13,090	1,110	900	1,090	4,820	4,810	360
50800515	BAR SPLICERS	EACH	104	24	12	12	24	24	8
52000110	PREFORMED JOINT STRIP SEAL	FOOT	605	119	94	118	109	109	56
59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	9.0			3.0	4.5	1.5	
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	575.0				225.0	350.0	
* 63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	2				1	1	
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	6				3	3	
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4				2	2	
63200310	GUARDRAIL REMOVAL	FOOT	1,425				712.5	712.5	

* SPECIALTY ITEM

REV. - MS



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-55/I-72 STRUCTURE REPAIRS
SUMMARY OF QUANTITIES**

SCALE: N.T.S. SHEET 2 OF 7 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(84-2) & (84-3) BRR	SANGAMON	98	4
CONTRACT NO. 72197			ILLINOIS FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE					
				6-01029-0000	6-01029-0000	6-01029-0000	6-01126-0000	6-01126-0000	6-01126-0000
				90% FED 10% ST	90% FED 10% ST	90% FED 10% ST	90% FED 10% ST	90% FED 10% ST	90% FED 10% ST
				BRIDGE	BRIDGE	BRIDGE	BRIDGE	BRIDGE	BRIDGE
				0047	0047	0047	0047	0047	0047
URBAN				084-0020	084-0022	084-0023	084-0050	084-0051	084-0103
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	12	1	2	2	3	3	1
67100100	MOBILIZATION	L SUM	1	0.08	0.17	0.17	0.25	0.25	0.08
70100205	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	EACH	2				1	1	
70100207	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402	EACH	5	1	1	1	1	1	
70100315	TRAFFIC CONTROL AND PROTECTION, STANDARD 701422	EACH	2				1	1	
70100325	TRAFFIC CONTROL AND PROTECTION, STANDARD 701423	EACH	2				1	1	
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1						1
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	3	1			1	1	
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1						1
70100701	TRAFFIC CONTROL AND PROTECTION, STANDARD 701406	EACH	3	1	1	1			
70100820	TRAFFIC CONTROL AND PROTECTION, STANDARD 701451	L SUM	1						1
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	30	5	5	5	5	5	5
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1				0.5	0.5	
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	475	40	35	70	150	150	30

* SPECIALTY ITEM

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-55/I-72 STRUCTURE REPAIRS
SUMMARY OF QUANTITIES**

SCALE: N.T.S. SHEET 3 OF 7 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(84-2) & (84-3) BRR	SANGAMON	98	5
			CONTRACT NO. 72197	
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE					
				6-01029-0000	6-01029-0000	6-01029-0000	6-01126-0000	6-01126-0000	6-01126-0000
				90% FED 10% ST	90% FED 10% ST	90% FED 10% ST	90% FED 10% ST	90% FED 10% ST	90% FED 10% ST
				BRIDGE	BRIDGE	BRIDGE	BRIDGE	BRIDGE	BRIDGE
				0047	0047	0047	0047	0047	0047
URBAN				084-0020	084-0022	084-0023	084-0050	084-0051	084-0103
70200100	NIGHTTIME WORK ZONE LIGHTING	L SUM	1				0.5	0.5	
70300100	SHORT TERM PAVEMENT MARKING	FOOT	4,970	756	1,091	1,495	694	694	240
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	10,350	1,575	2,272	3,114	1,445	1,445	499
70300230	TEMPORARY PAVEMENT MARKING - LINE 5"	FOOT	47,961	7,300	10,528	14,431	6,696	6,696	2,310
70300250	TEMPORARY PAVEMENT MARKING - LINE 8"	FOOT	1,717	1,717					
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	18						18
70400100	TEMPORARY CONCRETE BARRIER	FOOT	4,625.0	587.5	375.0	425.0	1,025.0	975.0	1,237.5
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	3,575.0	525.0	300.0	387.5	975.0	975.0	412.5
70600250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	5				1	1	3
70600260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	4	1	1	1			1
70600332	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	3	1	1	1			
70600350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	4				1	1	2
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4				2	2	
* 78009005	MODIFIED URETHANE PAVEMENT MARKING - LINE 5"	FOOT	15,647	4,553	4,376	6,718			

* SPECIALTY ITEM

REV. - MS



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-55/I-72 STRUCTURE REPAIRS
SUMMARY OF QUANTITIES

SCALE: N.T.S. SHEET 4 OF 7 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(84-2) & (84-3) BRR	SANGAMON	98	6
CONTRACT NO. 72197			ILLINOIS FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE					
				6-01029-0000	6-01029-0000	6-01029-0000	6-01126-0000	6-01126-0000	6-01126-0000
				90% FED 10% ST					
				BRIDGE	BRIDGE	BRIDGE	BRIDGE	BRIDGE	BRIDGE
				0047	0047	0047	0047	0047	0047
URBAN				084-0020	084-0022	084-0023	084-0050	084-0051	084-0103
* 78009008	MODIFIED URETHANE PAVEMENT MARKING - LINE 8"	FOOT	1,013	1,013					
* 78100300	REPLACEMENT REFLECTOR	EACH	223	41	104	38	20	20	
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	24				9	15	
* 78200010	BARRIER WALL REFLECTORS, TYPE B	EACH	57	24	15	18			
* 78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	65				32	33	
X0325748	ACRYLIC COATING	SQ YD	6.8						6.8
X0325749	FIBER WRAP	SQ FT	54.8						54.8
X0327979	PAVEMENT MARKING REMOVAL - GRINDING	SQ FT	8,503	2,572	1,824	2,799	576	578	154
X0931400	INLET BOXES TO BE ADJUSTED (SPECIAL)	EACH	12	4	2	2	2	2	
X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.25				0.10	0.15	
X5030250	BRIDGE DECK GROOVING (LONGITUDINAL)	SQ YD	6,229	1,670	694	883	1,491	1,491	
X7010206	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401 (SPECIAL)	EACH	2				1	1	
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	0.08	0.17	0.17	0.25	0.25	0.08
X7200201	WIDTH RESTRICTION SIGNING	L SUM	1	0.56	0.11	0.11			0.22

* SPECIALTY ITEM

REV. - MS



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-55/I-72 STRUCTURE REPAIRS
SUMMARY OF QUANTITIES**

SCALE: N.T.S. SHEET 5 OF 7 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(84-2) & (84-3) BRR	SANGAMON	98	7
			CONTRACT NO. 72197	
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE					
				6-01029-0000	6-01029-0000	6-01029-0000	6-01126-0000	6-01126-0000	6-01126-0000
				90% FED 10% ST					
				BRIDGE	BRIDGE	BRIDGE	BRIDGE	BRIDGE	BRIDGE
				0047	0047	0047	0047	0047	0047
URBAN				084-0020	084-0022	084-0023	084-0050	084-0051	084-0103
X7830050	RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REMOVAL	EACH	223	41	104	38	20	20	
Z0001800	APPROACH SLAB REPAIR (PARTIAL DEPTH)	SQ YD	7.6	1.7	3.0	2.9			
* Z0007101	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 1	L SUM	1				1		
* Z0007102	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 2	L SUM	1					1	
* Z0010501	CLEANING AND PAINTING STEEL BRIDGE NO. 1	L SUM	1				1		
* Z0010502	CLEANING AND PAINTING STEEL BRIDGE NO. 2	L SUM	1					1	
Z0012130	BRIDGE DECK SCARIFICATION 3/4"	SQ YD	6,393	1,726	713	900	1,527	1,527	
Z0012166	BRIDGE DECK MICROSILICA CONCRETE OVERLAY 2 3/4"	SQ YD	6,393	1,726	713	900	1,527	1,527	
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5")	SQ FT	124	26		12	28	16	42
Z0016001	DECK SLAB REPAIR (FULL DEPTH TYPE I)	SQ YD	3.4	0.5		1.0	0.9	0.6	0.4
Z0016002	DECK SLAB REPAIR (FULL DEPTH TYPE II)	SQ YD	181.7	14.0	20.0	75.0	26.0	42.2	4.5
Z0016200	DECK SLAB REPAIR (PARTIAL)	SQ YD	73.4						73.4
Z0016702	DETOUR SIGNING	L SUM	1				0.5	0.5	
Z0018051	DRAINAGE SCUPPER TO BE ADJUSTED	EACH	4	2			1	1	

* SPECIALTY ITEM

REV. - MS

BITUMINOUS MATERIALS (TACK COAT)

FROM STATION	TO STATION	LT/RT	# OF LIFTS	POUND
289+80.07	290+15.07	RT	1	48.4
289+96.68	290+31.68	LT	1	38.6
290+15.07	290+35.07	RT	1	28.6
290+31.68	290+51.68	LT	1	22.9
291+89.72	292+09.72	RT	1	28.9
291+99.11	292+19.11	LT	1	22.9
292+09.72	292+44.72	RT	1	49.4
292+19.11	292+54.11	LT	1	37.8
344+19.20	344+54.20	LT	1	36.9
344+54.20	344+74.20	LT	1	24.9
348+35.64	348+55.64	LT	1	24.3
348+55.64	348+90.64	LT	1	35.2
CLEAR LAKE AVE/COOK ST TOTAL				2,001
ROUNDED TOTAL				2,400

HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT

FROM STATION	TO STATION	LT/RT	SQ YD
289+80.07	290+15.07	RT	214.9
289+96.68	290+31.68	LT	171.6
292+09.72	292+44.72	RT	219.7
292+19.11	292+54.11	LT	167.9
344+19.20	344+54.20	LT	163.9
348+55.64	348+90.64	LT	156.6
CLEAR LAKE AVE/COOK ST TOTAL			1,181
ROUNDED TOTAL			2,276

IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3

STATION	LT/RT	EACH
288+00.60	RT	1
293+37.89	LT	1
349+90.59	LT	1
CLEAR LAKE AVE/COOK ST TOTAL		1
TOTAL		4

POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N90

FROM STATION	TO STATION	LT/RT	TON
290+15.07	290+35.07	RT	12.47
290+31.68	290+51.68	LT	9.95
291+89.72	292+09.72	RT	12.57
291+99.11	292+19.11	LT	9.98
344+54.20	344+74.20	LT	10.85
348+35.64	348+55.64	LT	10.60
CLEAR LAKE AVE/COOK ST TOTAL			498
ROUNDED TOTAL			565

PAVED SHOULDER REMOVAL

FROM STATION	TO STATION	LT/RT	SQ YD
284+98.00	290+55.80	LT	694.10
286+00.21	290+41.37	RT	494.14
286+36.59	290+49.02	LT	345.36
286+38.20	290+35.08	RT	443.12
291+85.16	295+94.23	RT	480.36
291+92.83	297+96.38	RT	707.99
291+96.87	294+10.35	LT	202.28
291+99.23	298+36.14	LT	739.74
342+01.76	344+93.44	LT	323.88
342+50.85	344+67.47	LT	251.01
348+16.94	352+15.10	LT	438.85
348+53.94	351+77.84	LT	297.61
CLEAR LAKE AVE/COOK ST TOTAL			1,745
ROUNDED TOTAL			7,164

IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3

STATION	LT/RT	EACH
287+69.47	RT	1
294+20.26	LT	1
350+62.84	LT	1
TOTAL		3

HOT-MIX ASPHALT BASE COURSE, 10"

FROM STATION	TO STATION	LT/RT	SQ YD
STAGE 1			
284+98.00	290+55.80	LT	694.10
286+38.20	290+35.08	RT	443.12
291+85.16	295+94.23	RT	480.36
291+99.23	298+36.14	LT	739.74
342+50.85	344+67.47	LT	251.01
348+16.94	352+15.10	LT	438.85
STAGE 2			
286+00.21	290+41.37	RT	494.14
286+36.59	290+49.02	LT	345.36
291+92.83	297+96.38	RT	707.99
291+96.87	294+10.35	LT	202.28
342+01.76	344+93.44	LT	323.88
348+53.94	351+77.84	LT	297.61
CLEAR LAKE AVE/COOK ST TOTAL			1,977
ROUNDED TOTAL			7,396

HOT-MIX ASPHALT SHOULDERS

FROM STATION	TO STATION	LT/RT	TON
STAGE 1			
284+98.00	290+55.80	LT	77.74
286+38.20	290+35.08	RT	49.63
291+85.16	295+94.23	RT	53.80
291+99.23	298+36.14	LT	82.85
342+50.85	344+67.47	LT	28.11
348+16.94	352+15.10	LT	49.15
STAGE 2			
286+00.21	290+41.37	RT	55.34
286+36.59	290+49.02	LT	38.68
291+92.83	297+96.38	RT	79.29
291+96.87	294+10.35	LT	22.65
342+01.76	344+93.44	LT	36.27
348+53.94	351+77.84	LT	33.33
CLEAR LAKE AVE/COOK ST TOTAL			151
ROUNDED TOTAL			758

TEMPORARY CONCRETE BARRIER

FROM STATION	TO STATION	LT/RT	FOOT
STAGE 1			
287+97.94	291+89.97	RT	387.50
290+41.06	293+37.87	LT	300.00
344+71.80	349+90.49	LT	525.00
STAGE 2			
287+69.59	292+00.11	RT	37.50
290+48.20	294+20.20	LT	75.00
344+82.57	350+62.76	LT	62.50
CLEAR LAKE AVE/COOK ST TOTAL			3,237.5
ROUNDED TOTAL			4,625.0

RELOCATE TEMPORARY CONCRETE BARRIER

FROM STATION	TO STATION	LT/RT	FOOT
STAGE 2			
287+69.59	292+00.11	RT	387.50
290+48.20	294+20.20	LT	300.00
344+82.57	350+62.76	LT	525.00
CLEAR LAKE AVE/COOK ST TOTAL			2,362.5
ROUNDED TOTAL			3,575.0

BARRIER WALL REFLECTORS, TYPE B

FROM STATION	TO STATION	LT/RT	EACH
STAGE 1			
287+97.94	291+89.97	RT	16
290+41.06	293+37.87	LT	12
344+71.80	349+90.49	LT	21
STAGE 2			
287+69.59	292+00.11	RT	2
290+48.20	294+20.20	LT	3
344+82.57	350+62.76	LT	3
TOTAL			57



USER NAME = Lin
 DESIGNED - RC
 DRAWN - RC
 PLOT SCALE = 100,0000' / in.
 CHECKED - FL
 PLOT DATE = 12/11/2018
 DATE - 12/2018

REVISER -
 REVISION -
 REVISION -
 REVISION -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**I-55/I-72 STRUCTURE REPAIRS
 SCHEDULE OF QUANTITIES**

SCALE: N.T.S. SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(84-2) & (84-3) BRR	SANGAMON	98	10
CONTRACT NO. 72197			ILLINOIS FED. AID PROJECT	

TEMPORARY PAVEMENT MARKING - LINE 5"

FROM STATION	TO STATION	LT/RT	FOOT
STAGE 1			
270+88.33	297+12.64	RT	2,582.68
270+88.33	285+88.82	RT	368.94
270+88.33	297+12.64	RT	2,596.53
283+65.60	298+60.80	LT	1,508.05
283+65.60	298+60.80	LT	1,505.55
283+65.60	298+60.80	LT	1,503.07
285+88.82	297+12.64	RT	1,113.49
339+06.44	353+82.07	LT	1,113.49
339+06.44	353+82.07	LT	1,478.78
340+25.33	342+50.77	LT	56.35
342+50.77	353+82.07	LT	1,139.67
STAGE 2			
268+42.88	298+28.50	RT	2,954.04
268+43.20	283+43.96	RT	371.07
268+43.34	298+28.37	RT	2,967.16
283+43.96	298+28.43	RT	1,476.64
286+36.54	338+04.02	LT	5,232.71
286+36.57	294+10.35	LT	778.80
340+75.04	342+02.51	LT	31.87
342+01.76	351+77.84	LT	978.35
342+02.51	366+77.84	LT	2,501.55
CLEAR LAKE AVE/COOK ST TOTAL			15,702
ROUNDED TOTAL			47,961

TEMPORARY PAVEMENT MARKING - LINE 8"

FROM STATION	TO STATION	LT/RT	FOOT
STAGE 1			
337+97.48	340+25.33	LT	223.03
337+98.25	342+50.77	LT	446.79
339+06.44	340+25.33	LT	116.55
STAGE 2			
338+05.27	340+75.04	LT	266.36
338+05.27	340+75.04	LT	271.02
338+05.27	342+02.16	LT	392.83
ROUNDED TOTAL			1,717

MODIFIED URETHANE PAVEMENT MARKING-LINE 8"

FROM STATION	TO STATION	LT/RT	FOOT
337+97.48	340+74.15	LT	276.67
337+98.25	343+66.14	LT	567.89
339+06.44	340+74.15	LT	167.71
ROUNDED TOTAL			1,013

TEMPORARY INFORMATION SIGNING

DESCRIPTION	LT/RT	HEIGHT	WIDTH	SQ FT
W4-1B	RT	4.00	4.00	16.00
W4-1B	RT	4.00	4.00	16.00
W4-1B	RT	4.00	4.00	16.00
W4-1B	RT	4.00	4.00	16.00
W4-1B	LT	4.00	4.00	16.00
W4-1B	LT	4.00	4.00	16.00
W4-1B	LT	4.00	4.00	16.00
W4-1B	LT	4.00	4.00	16.00
W4-1B	LT	4.00	4.00	16.00
W4-1B	LT	4.00	4.00	16.00
W4-1B	LT	4.00	4.00	16.00
W4-1B	LT	4.00	4.00	16.00
W4-1R	LT	4.00	4.00	16.00
W4-1R	LT	4.00	4.00	16.00
W4-1L	LT	4.00	4.00	16.00
W4-1L	LT	4.00	4.00	16.00
W4-1R	LT	4.00	4.00	16.00
W4-1L	LT	4.00	4.00	16.00
ROUNDED TOTAL				272

MODIFIED URETHANE PAVEMENT MARKING-LINE 5"

FROM STATION	TO STATION	LT/RT	FOOT
268+42.89	298+28.50	RT	2,985.61
268+42.89	298+28.50	RT	2,985.61
268+42.89	298+28.50	RT	746.40
283+65.60	298+60.80	LT	1,495.20
283+65.60	298+60.80	LT	1,495.20
283+65.60	298+60.80	LT	373.80
298+60.80	339+06.44	LT	1,011.41
339+06.44	353+82.07	LT	1,475.63
339+06.44	353+82.07	LT	368.91
340+74.15	343+66.14	LT	73.00
343+66.14	353+82.07	LT	1,015.93
353+82.07	366+77.84	LT	1,295.77
353+82.07	366+77.84	LT	323.94
ROUNDED TOTAL			15,647

REPLACEMENT REFLECTOR

FROM STATION	TO STATION	LT/RT	EACH
268+42.89	298+28.50	RT	38
283+65.60	366+77.84	LT	104
337+97.48	340+74.15	LT	7
337+98.25	343+66.14	LT	29
339+06.44	340+74.15	LT	5
CLEAR LAKE AVE/COOK ST TOTAL			40
TOTAL			223

RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REMOVAL

FROM STATION	TO STATION	LT/RT	EACH
268+42.89	298+28.50	RT	38
283+65.60	366+77.84	LT	104
337+97.48	340+74.15	LT	7
337+98.25	343+66.14	LT	29
339+06.44	340+74.15	LT	5
CLEAR LAKE AVE/COOK ST TOTAL			40
TOTAL			223

PAVEMENT MARKING REMOVAL - GRINDING

FROM STATION	TO STATION	LT/RT	WIDTH (IN.)	SQ FT
EXISTING PAVEMENT MARKINGS				
268+42.89	298+28.50	RT	5	1,244.00
268+42.89	298+28.50	RT	5	1,244.00
268+42.89	298+28.50	RT	5	311.00
283+65.60	298+60.80	LT	5	623.00
283+65.60	298+60.80	LT	5	623.00
283+65.60	298+60.80	LT	5	155.75
298+60.80	339+06.44	LT	5	421.42
337+97.48	340+74.15	LT	8	184.45
337+98.25	343+66.14	LT	8	378.59
339+06.44	340+74.15	LT	8	111.81
339+06.44	353+82.07	LT	5	614.85
339+06.44	353+82.07	LT	5	153.71
340+74.15	343+66.14	LT	5	30.42
343+66.14	353+82.07	LT	5	423.30
353+82.07	366+77.84	LT	5	539.90
353+82.07	366+77.84	LT	5	134.98
CLEAR LAKE AVE/COOK ST TOTAL				1,308.00
ROUNDED TOTAL				8,503



USER NAME = Lin
 PLOT SCALE = 100,0000' / in.
 PLOT DATE = 12/11/2018

DESIGNED - RC
 DRAWN - RC
 CHECKED - FL
 DATE - 12/2018

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

I-55/I-72 STRUCTURE REPAIRS
 SCHEDULE OF QUANTITIES

SCALE: N.T.S. SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(84-2) & (84-3) BRR	SANGAMON	98	11
CONTRACT NO. 72197			ILLINOIS FED. AID PROJECT	

MAINTENANCE OR TRAFFIC GENERAL NOTES

BRIDGE REPAIRS

1. THE MAINTENANCE OF TRAFFIC PLANS SHALL SERVE AS A GUIDE FOR THE SAFE DIVERSION OF TRAFFIC DURING THE EXECUTION OF THIS CONTRACT. THE CONTRACTOR MAY MODIFY THE MAINTENANCE OF TRAFFIC PLANS TO MEET CONSTRUCTION NEEDS BUT NOT AT EXPENSE OF PUBLIC SAFETY OR CONVENIENCE. ANY CHANGES TO THE TRAFFIC CONTROL PLANS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
2. EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH TEMPORARY MARKINGS SHALL BE REMOVED. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT FOR PAVEMENT MARKING REMOVAL.
3. BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES (RAISED REFLECTIVE PAVEMENT MARKERS) IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF THE RELATED PAVEMENT MARKING PAY ITEMS.
4. EXISTING RAISED REFLECTIVE PAVEMENT MARKER REFLECTORS THAT CONFLICT WITH THE REVISED TRAFFIC PATTERN SHALL BE REMOVED FROM THE EXISTING CASTINGS LOCATED IN THE PAVEMENT. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REMOVAL.
5. THE CONTRACTOR SHALL REMOVE ALL TEMPORARY PAVEMENT MARKINGS THAT CONFLICT WITH THE FOLLOWING STAGE OR THE FINAL PAVEMENT MARKING. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT FOR PAVEMENT MARKING REMOVAL.
6. ALL TRAFFIC CONTROL DEVICES SHALL BE REFLECTORIZED PRIOR TO INSTALLATION AND CLEANED AS SPECIFIED IN THE TRAFFIC CONTROL SPECIAL PROVISIONS OR AS DIRECTED BY THE ENGINEER.
7. ALL DRUMS, VERTICAL PANELS, AND BARRICADES ADJACENT TO THE EDGE OF THE TRAVELED WAY SHALL BE EQUIPPED WITH MONO-DIRECTIONAL STEADY BURNING LIGHTS.
8. FOR STABILIZATION, ALL TYPE III BARRICADES SHALL REQUIRE A MINIMUM OF FOUR SAND BAGS PER BARRICADE.
9. EXISTING SIGNS WITHIN THE LIMITS OF TRAFFIC CONTROL WHICH ARE OBSTRUCTED BY OR OTHERWISE INTERFERED WITH BY CONSTRUCTION OPERATIONS OF DESIGNATED TRAFFIC CONTROL, SHALL BE COVERED OR REMOVED BY THE CONTRACTOR UNLESS SPECIFIED IN THE PLANS OR WHEN DIRECTED BY THE ENGINEER. THIS WORK SHALL BE AS SPECIFIED IN ARTICLE 107.25 OF THE STANDARD SPECIFICATIONS.
10. CHANGEABLE MESSAGE SIGNS SHALL BE INSTALLED AS DIRECTED BY THE ENGINEER PRIOR TO THE START OF CONSTRUCTION.
11. SEE STRUCTURAL PLANS FOR ADDITIONAL BRIDGE STAGING INFORMATION.
12. THE CONTRACTOR SHALL CONTACT THE DISTRICT 6 TRAFFIC CONTROL SECTION OF THE BUREAU OF OPERATIONS AT (217) 785-5312 AT LEAST 21 DAYS PRIOR TO IMPLEMENTING ANY LANE CLOSURES, 48 HOURS PRIOR TO A SWITCH IN TRAFFIC STAGING, AND ONE WEEK PRIOR TO CLOSING A RAMP.

SUGGESTED SEQUENCE OF OPERATIONS

PRE-STAGE 1

1. CONSTRUCT TEMPORARY PAVEMENT ALONG NB AND SB OUTSIDE SHOULDERS AT LOCATIONS SHOWN ON STAGING TYPICAL SECTIONS AND STAGING PLANS WITH HIGHWAY STANDARD 701406.

PRE-STAGE 2

1. CONSTRUCT TEMPORARY PAVEMENT ALONG NB AND SB INSIDE SHOULDERS AT LOCATIONS SHOWN ON STAGING TYPICAL SECTIONS AND STAGING PLANS WITH HIGHWAY STANDARD 701406.

STAGE 1

1. CLOSE NB INSIDE LANE AND SHOULDER AT S.N. 084-0020 & 084-0022 & SB INSIDE LANE AND SHOULDER AT S.N. 084-0023. INSTALL TRAFFIC CONTROL DEVICES AND TEMPORARY PAVEMENT MARKINGS AS SHOWN ON THE PLAN SHEETS "STAGING PLAN - STAGE 1" AND UTILIZING HIGHWAY STANDARDS 701400 & 701411.
2. REMOVE CONCRETE DECK AND PARAPETS AT THE EXPANSION JOINTS IN ORDER TO REPLACE STRIP SEAL JOINTS.
3. APPLY 3/4" HYDRO-SCARIFICATION TO DECK SLAB.
4. PERFORM DECK AND APPROACH SLAB REPAIRS.
5. PLACE NEW SUPERSTRUCTURE CONCRETE AND PREFORMED JOINT STRIP SEAL AT ABUTMENTS.
6. PLACE 2 3/4" MICROSILICA CONCRETE OVERLAY ON DECK SLAB.
7. PERFORM 1/2" DIAMOND GRINDING.
8. PERFORM BRIDGE DECK GROOVING ON NEW DECK SURFACE.
9. APPLY PROTECTIVE COAT TO NEW CONCRETE SURFACES.
10. REPAIR DETERIORATED CONCRETE ON SUBSTRUCTURE AND FILL VOIDS UNDER SHOULDER AND FIX BROKEN APPROACH CURB AS INDICATED.

STAGE 2

1. CLOSE NB OUTSIDE LANE AND SHOULDER AT S.N. 084-0020 & 084-0022 & SB OUTSIDE LANE AND SHOULDER AT S.N. 084-0023. INSTALL TRAFFIC CONTROL DEVICES AND TEMPORARY PAVEMENT MARKINGS AS SHOWN ON THE PLAN SHEETS "STAGING PLAN - STAGE 2" AND UTILIZING HIGHWAY STANDARDS 701400, 701402, & 701411.
2. WHEN S.N. 084-0020 & S.N. 084-0022 ARE UNDER CONSTRUCTION AND NB I-55 TRAFFIC IS MAINTAINED USING A SINGLE LANE OF TRAFFIC, THE LANE CLOSURE SHALL BE MAINTAINED BETWEEN S.N. 084-0020 & S.N. 084-0022.
3. REMOVE CONCRETE DECK AND PARAPETS AT THE EXPANSION JOINTS IN ORDER TO REPLACE STRIP SEAL JOINTS.
4. APPLY 3/4" HYDRO-SCARIFICATION TO DECK SLAB.
5. PERFORM DECK AND APPROACH SLAB REPAIRS.
6. PLACE NEW SUPERSTRUCTURE CONCRETE AND PREFORMED JOINT STRIP SEAL AT ABUTMENTS.
7. PLACE 2 3/4" MICROSILICA CONCRETE OVERLAY ON DECK SLAB.
8. PERFORM 1/2" DIAMOND GRINDING.
9. PERFORM BRIDGE DECK GROOVING ON NEW DECK SURFACE.
10. APPLY PROTECTIVE COAT TO NEW CONCRETE SURFACES.
11. REPAIR DETERIORATED CONCRETE ON SUBSTRUCTURE AND FILL VOIDS UNDER SHOULDER AND FIX BROKEN APPROACH CURB AS INDICATED.

FINAL PHASE

1. PLACE TRAFFIC IN THE PERMANENT LANES.
2. REPLACE ALL EXISTING PAVEMENT MARKINGS THAT MAY HAVE BEEN REMOVED OR DAMAGED DURING CONSTRUCTION AND REPLACE REFLECTORS IN RAISED REFLECTIVE PAVEMENT MARKERS WITH HIGHWAY STANDARD 701406.



USER NAME = Lin	DESIGNED - RC	REVISED -
	DRAWN - RC	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - FL	REVISED -
PLOT DATE = 12/12/2018	DATE - 12/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-55/I-72 STRUCTURE REPAIRS
STAGING GENERAL NOTES - 084-0020, S.N. 084-0022 & 084-0023**

SCALE: 1"=50' SHEET 1 OF 16 SHEETS STA. TO STA.

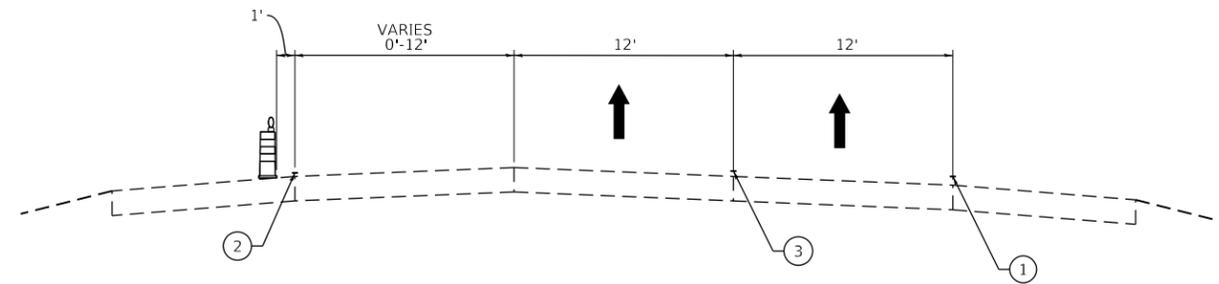
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(84-2) & (84-3) BRR	SANGAMON	98	12
			CONTRACT NO. 72197	
			ILLINOIS FED. AID PROJECT	

TYPICAL SECTION SYMBOLS

-  PAVED SHOULDER REM
PR HMA SHOULDER 2"
PR HMA BASE CSE 10"
-  DIRECTION OF TRAFFIC
-  TEMPORARY CONCRETE BARRIER
-  DRUM WITH STEADY BURN
MONODIRECTIONAL LIGHT

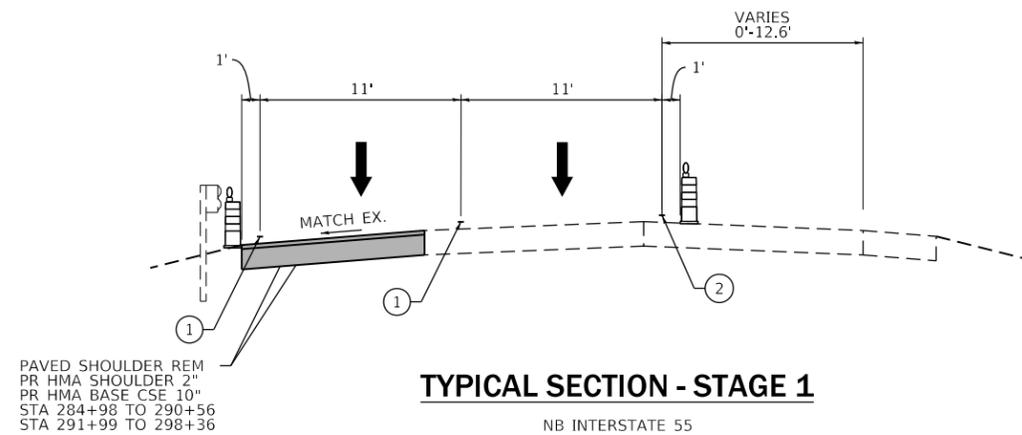
MOT PROPOSED LEGEND

- ① TEMPORARY PAVEMENT MARKING -
LINE 5" (SOLID WHITE)
- ② TEMPORARY PAVEMENT MARKING -
LINE 5" (SOLID YELLOW)
- ③ TEMPORARY PAVEMENT MARKING -
LINE 5" (SKIP DASH WHITE)



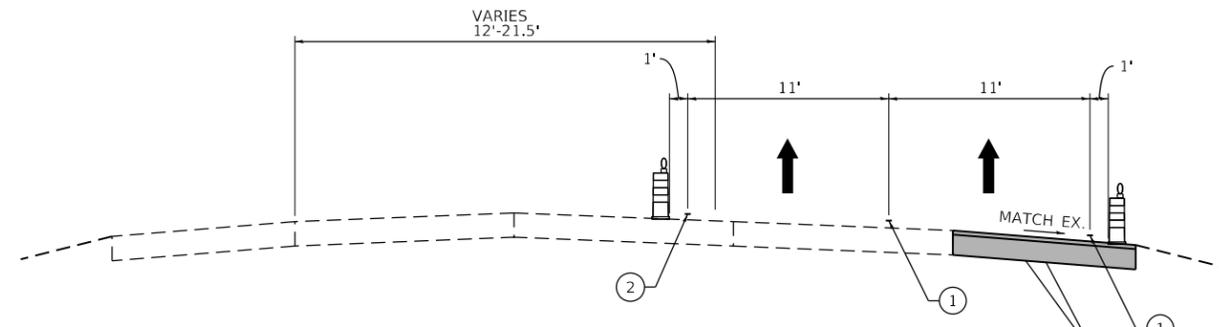
TYPICAL SECTION - STAGE 1

SB INTERSTATE 55
STA 270+88 TO STA 285+88
LOOKING SOUTH



TYPICAL SECTION - STAGE 1

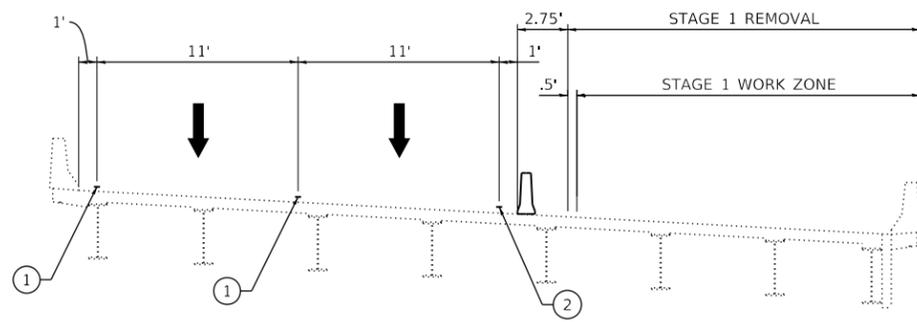
NB INTERSTATE 55
STA 283+66 TO STA 290+54
STA 291+99 TO STA 298+61
LOOKING SOUTH



TYPICAL SECTION - STAGE 1

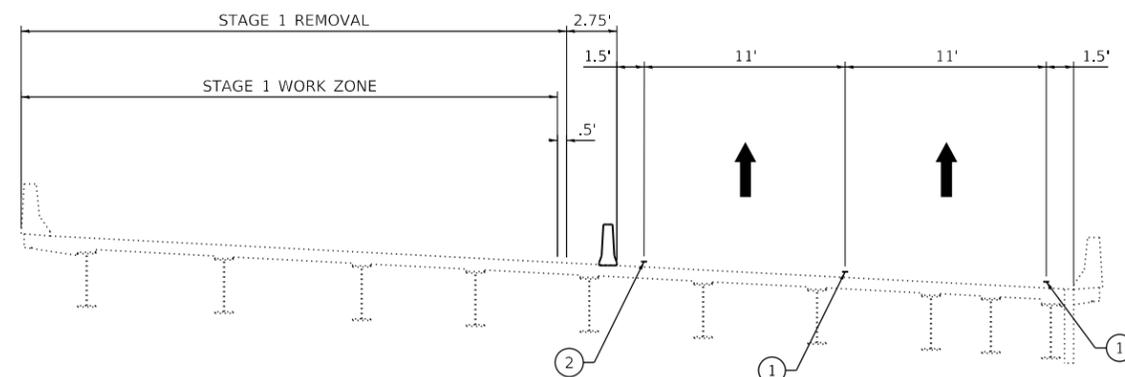
SB INTERSTATE 55
STA 285+88 TO STA 290+36
STA 291+87 TO STA 297+13
LOOKING SOUTH

PAVED SHOULDER REM
PR HMA SHOULDER 2"
PR HMA BASE CSE 10"
STA 286+39 TO 290+35
STA 291+85 TO 295+94



TYPICAL SECTION - STAGE 1

NB INTERSTATE 55
S.N. 084-0022
STA 290+54 TO STA 291+99
LOOKING SOUTH



TYPICAL SECTION - STAGE 1

SB INTERSTATE 55
S.N. 084-0023
STA 290+36 TO STA 291+87
LOOKING SOUTH

USER NAME = Lin	DESIGNED - RC	REVISED -
DRAWN - RC	REVISIONS -	
PLOT SCALE = 10.0000 ' / in.	CHECKED - FL	REVISIONS -
PLOT DATE = 12/11/2018	DATE - 12/2018	REVISIONS -

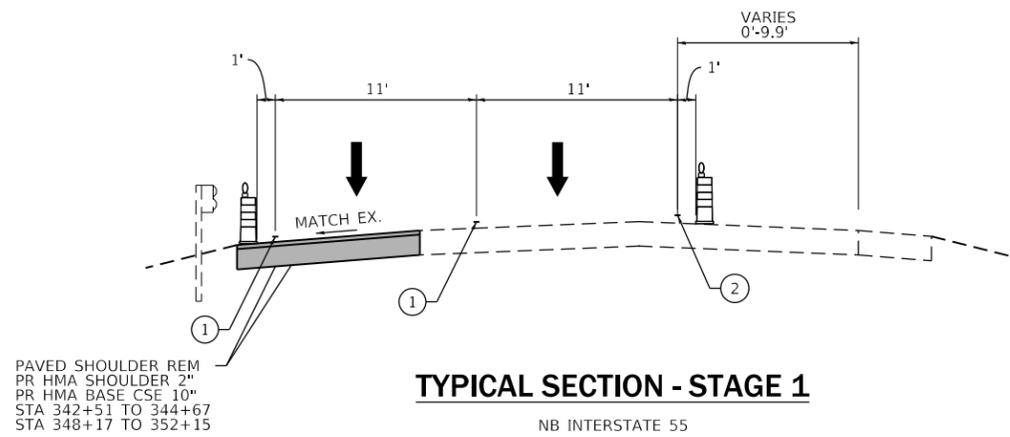
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(84-2) & (84-3) BRR	SANGAMON	98	13
			CONTRACT NO. 72197	
ILLINOIS FED. AID PROJECT				

TYPICAL SECTION SYMBOLS

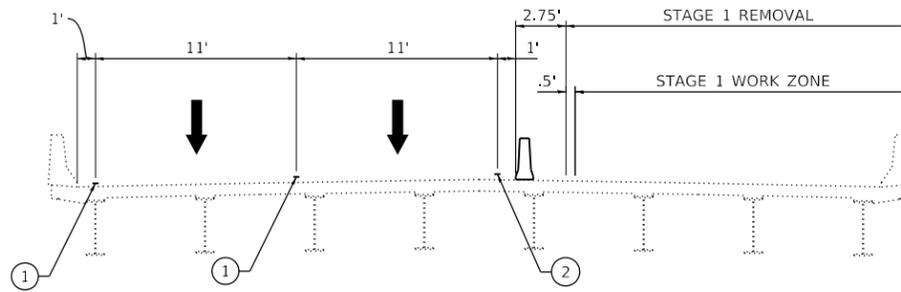
-  PAVED SHOULDER REM
PR HMA SHOULDER 2"
PR HMA BASE CSE 10"
-  DIRECTION OF TRAFFIC
-  TEMPORARY CONCRETE BARRIER
-  DRUM WITH STEADY BURN
MONODIRECTIONAL LIGHT

MOT PROPOSED LEGEND

- ① TEMPORARY PAVEMENT MARKING -
LINE 5" (SOLID WHITE)
- ② TEMPORARY PAVEMENT MARKING -
LINE 5" (SOLID YELLOW)
- ③ TEMPORARY PAVEMENT MARKING -
LINE 5" (SKIP DASH WHITE)



PAVED SHOULDER REM
PR HMA SHOULDER 2"
PR HMA BASE CSE 10"
STA 342+51 TO 344+67
STA 348+17 TO 352+15



TYPICAL SECTION - STAGE 1

NB INTERSTATE 55
S.N. 084-0020
STA 344+69 TO STA 348+27
LOOKING SOUTH



USER NAME = Lin	DESIGNED - RC	REVISED -
	DRAWN - RC	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED - FL	REVISED -
PLOT DATE = 12/11/2018	DATE - 12/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-55/I-72 STRUCTURE REPAIRS
STAGING TYPICAL SECTIONS - STAGE 1: S.N. 084-0020**

SCALE: 1"=50' SHEET 3 OF 16 SHEETS STA. TO STA.

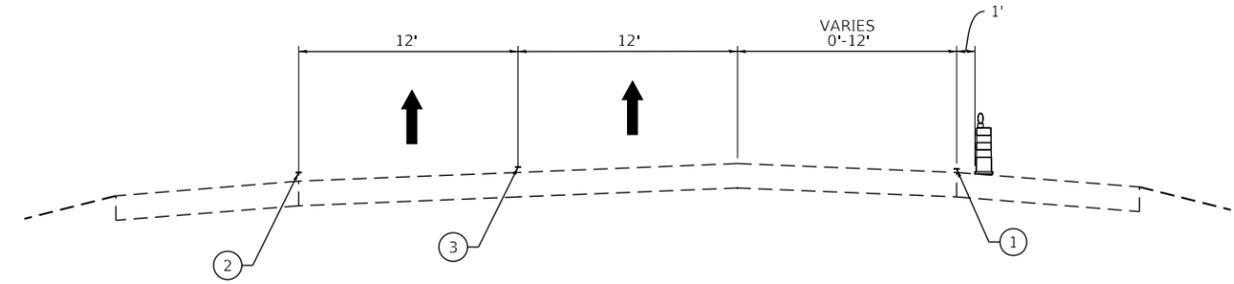
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(84-2) & (84-3) BRR	SANGAMON	98	14
			CONTRACT NO. 72197	
ILLINOIS FED. AID PROJECT				

TYPICAL SECTION SYMBOLS

-  PAVED SHOULDER REM
PR HMA SHOULDER 2"
PR HMA BASE CSE 10"
-  DIRECTION OF TRAFFIC
-  TEMPORARY CONCRETE BARRIER
-  DRUM WITH STEADY BURN
MONODIRECTIONAL LIGHT

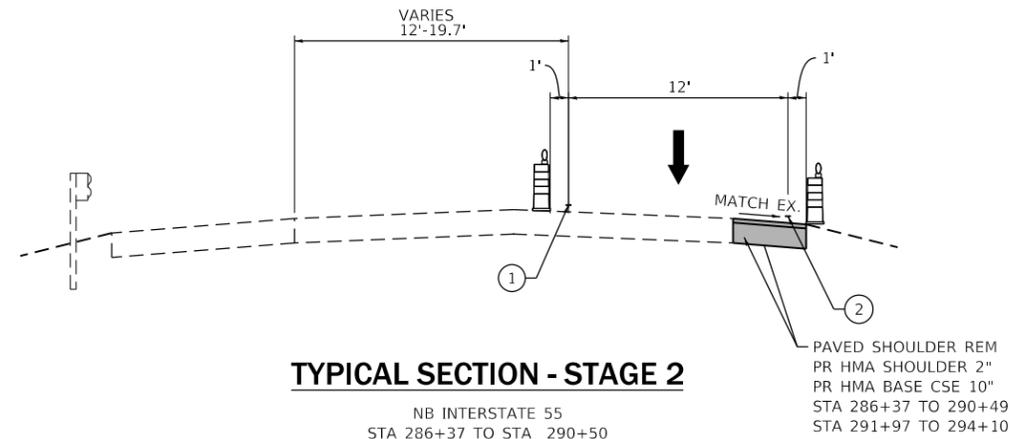
MOT PROPOSED LEGEND

- ① TEMPORARY PAVEMENT MARKING -
LINE 5" (SOLID WHITE)
- ② TEMPORARY PAVEMENT MARKING -
LINE 5" (SOLID YELLOW)
- ③ TEMPORARY PAVEMENT MARKING -
LINE 5" (SKIP DASH WHITE)



TYPICAL SECTION - STAGE 2

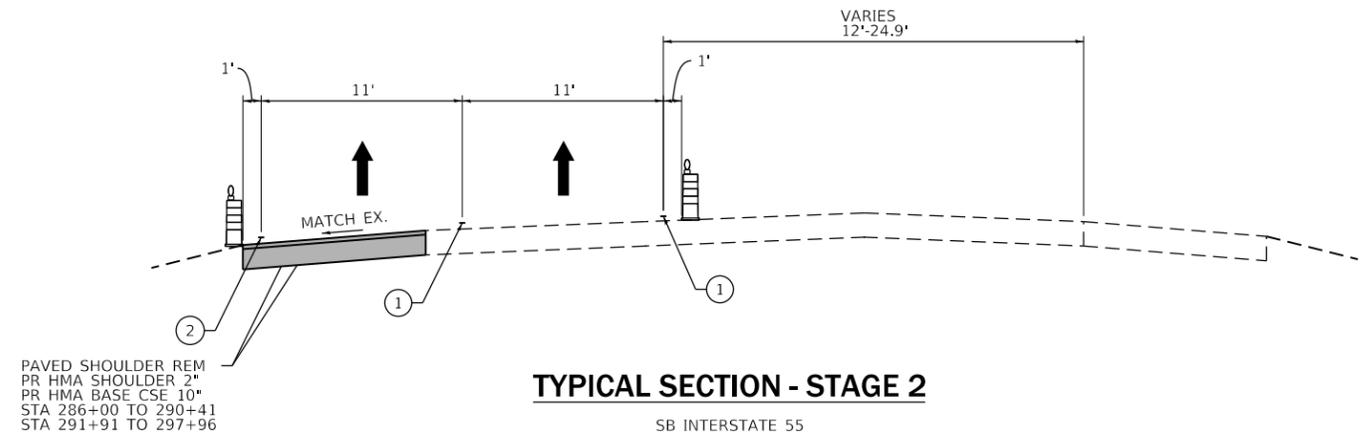
SB INTERSTATE 55
STA 268+43 TO STA 283+43
LOOKING SOUTH



TYPICAL SECTION - STAGE 2

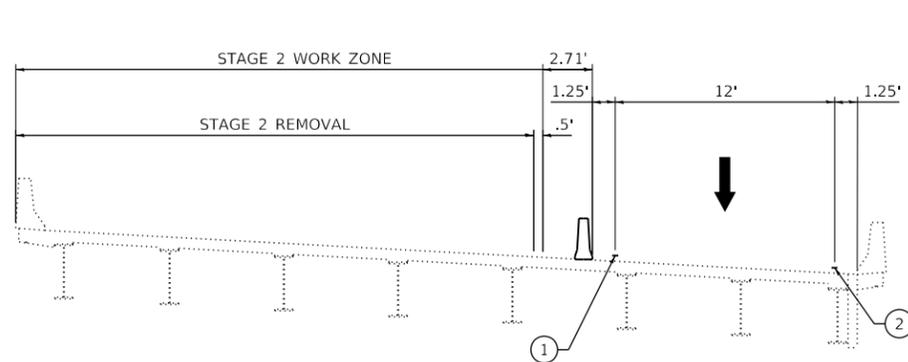
NB INTERSTATE 55
STA 286+37 TO STA 290+50
STA 291+98 TO STA 294+10
LOOKING SOUTH

PAVED SHOULDER REM
PR HMA SHOULDER 2"
PR HMA BASE CSE 10"
STA 286+37 TO 290+49
STA 291+97 TO 294+10



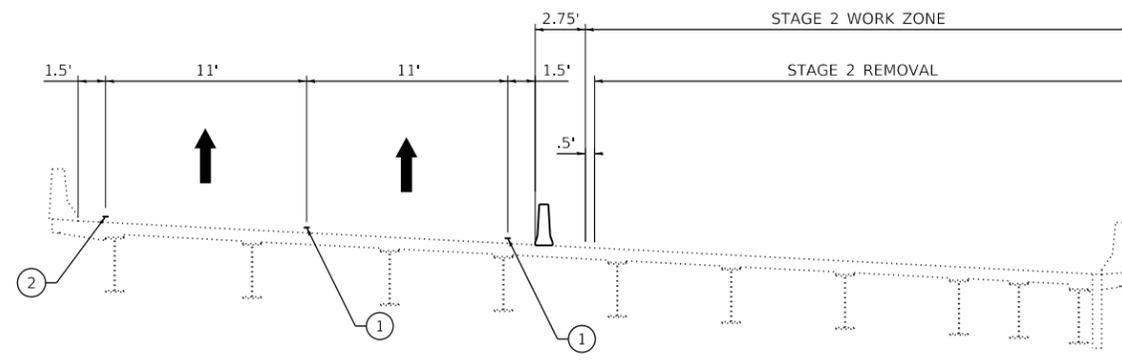
TYPICAL SECTION - STAGE 2

SB INTERSTATE 55
STA 283+43 TO STA 290+37
STA 291+93 TO STA 298+28
LOOKING SOUTH



TYPICAL SECTION - STAGE 2

NB INTERSTATE 55
S.N. 084-0022
STA 290+50 TO STA 291+98
LOOKING SOUTH



TYPICAL SECTION - STAGE 2

SB INTERSTATE 55
S.N. 084-0023
STA 290+37 TO STA 291+93
LOOKING SOUTH

USER NAME = Lin	DESIGNED - RC	REVISED -
	DRAWN - RC	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED - FL	REVISED -
PLOT DATE = 12/11/2018	DATE - 12/2018	REVISED -

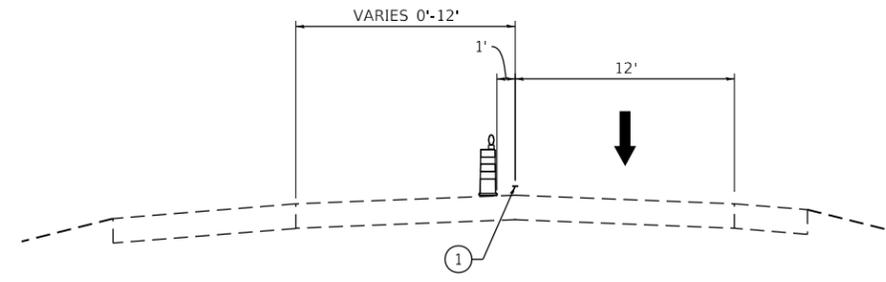
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(84-2) & (84-3) BRR	SANGAMON	98	15
ILLINOIS FED. AID PROJECT			CONTRACT NO. 72197	

TYPICAL SECTION SYMBOLS

-  PAVED SHOULDER REM
PR HMA SHOULDER 2"
PR HMA BASE CSE 10"
-  DIRECTION OF TRAFFIC
-  TEMPORARY CONCRETE BARRIER
-  DRUM WITH STEADY BURN
MONODIRECTIONAL LIGHT

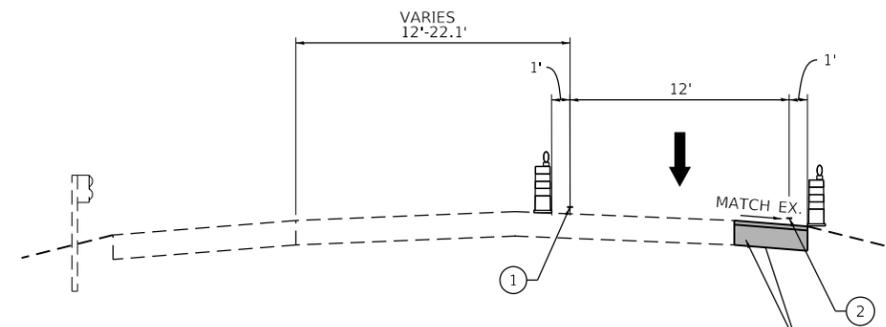
MOT PROPOSED LEGEND

- ① TEMPORARY PAVEMENT MARKING -
LINE 5" (SOLID WHITE)
- ② TEMPORARY PAVEMENT MARKING -
LINE 5" (SOLID YELLOW)
- ③ TEMPORARY PAVEMENT MARKING -
LINE 5" (SKIP DASH WHITE)



TYPICAL SECTION - STAGE 2

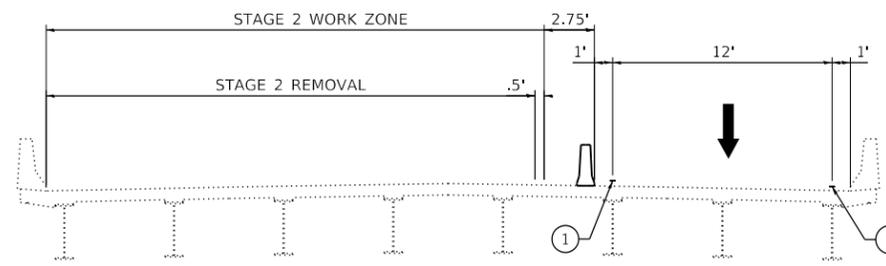
NB INTERSTATE 55
STA 294+10 TO STA 342+02
STA 351+78 TO STA 366+78
LOOKING SOUTH



TYPICAL SECTION - STAGE 2

NB INTERSTATE 55
STA 342+02 TO STA 344+83
STA 348+44 TO STA 351+78
LOOKING SOUTH

PAVED SHOULDER REM
PR HMA SHOULDER 2"
PR HMA BASE CSE 10"
STA 342+02 TO 344+93
STA 348+40 TO 351+78



TYPICAL SECTION - STAGE 2

NB INTERSTATE 55
S.N. 084-0020
STA 344+83 TO STA 348+44
LOOKING SOUTH

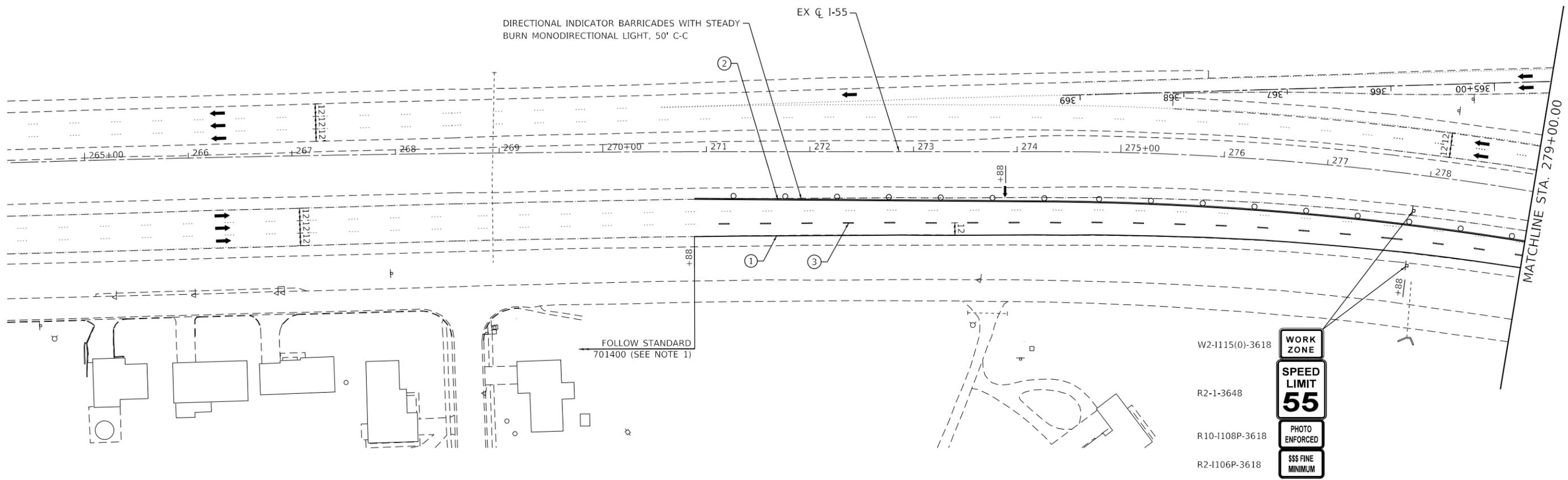
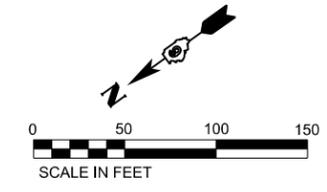


USER NAME = Lin	DESIGNED - RC	REVISED -
	DRAWN - RC	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED - FL	REVISED -
PLOT DATE = 12/11/2018	DATE - 12/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-55/I-72 STRUCTURE REPAIRS
STAGING TYPICAL SECTIONS - STAGE 2: S.N. 084-0020
SCALE: 1"=50' SHEET 5 OF 16 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(84-2) & (84-3) BRR	SANGAMON	98	16
ILLINOIS FED. AID PROJECT			CONTRACT NO. 72197	



NOTES:

- "ROAD CONSTRUCTION AHEAD 2 MILES" AND WORK ZONE SPEED LIMIT ARRAY SIGNS SHALL BE ERCTED BY THE CONTRACTOR ALONG THE SB ENTRANCE RAMP OF THE WEIGH STATION UPSTREAM OF THE WORK ZONE. LOCATIONS SHALL BE AS DETERMINED BY THE ENGINEER.

MAINTENANCE OF TRAFFIC LEGEND

- | | | | |
|--|--|---|--|
| | WORK ZONE | ① | TEMPORARY PAVEMENT MARKING - LINE 5" (SOLID WHITE) |
| | PAVED SHOULDER REMOVAL, PR HMA SHOULDER 2", PR HMA BASE CSE 10' | ② | TEMPORARY PAVEMENT MARKING - LINE 5" (SOLID YELLOW) |
| | DIRECTION OF TRAFFIC | ③ | TEMPORARY PAVEMENT MARKING - LINE 5" (SKIP-DASH, WHITE 10' DASH, 30' SKIP) |
| | SIGN | ④ | TEMPORARY PAVEMENT MARKING - LINE 5" (SKIP-DASH, WHITE 2' DASH, 6' SKIP) |
| | DIRECTIONAL INDICATOR BARRICADE, DRUM, OR T2 BARRICADE (SEE PLAN SHEET FOR SPACING-STEADY BURN MONODIRECTIONAL LIGHT IN TAPERS ONLY) | ⑤ | TEMPORARY PAVEMENT MARKING - LINE 8" (SOLID WHITE) |
| | TYPE III BARRICADE WITH FLASHING LIGHTS | ⑥ | IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3 |
| | ARROW BOARD | ⑦ | IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3 |
| | TEMPORARY CONCRETE BARRIER | ⑧ | TEMPORARY CONCRETE BARRIER |
| | MONODIRECTIONAL BARRIER WALL REFLECTOR | | |
| | IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3 | | |



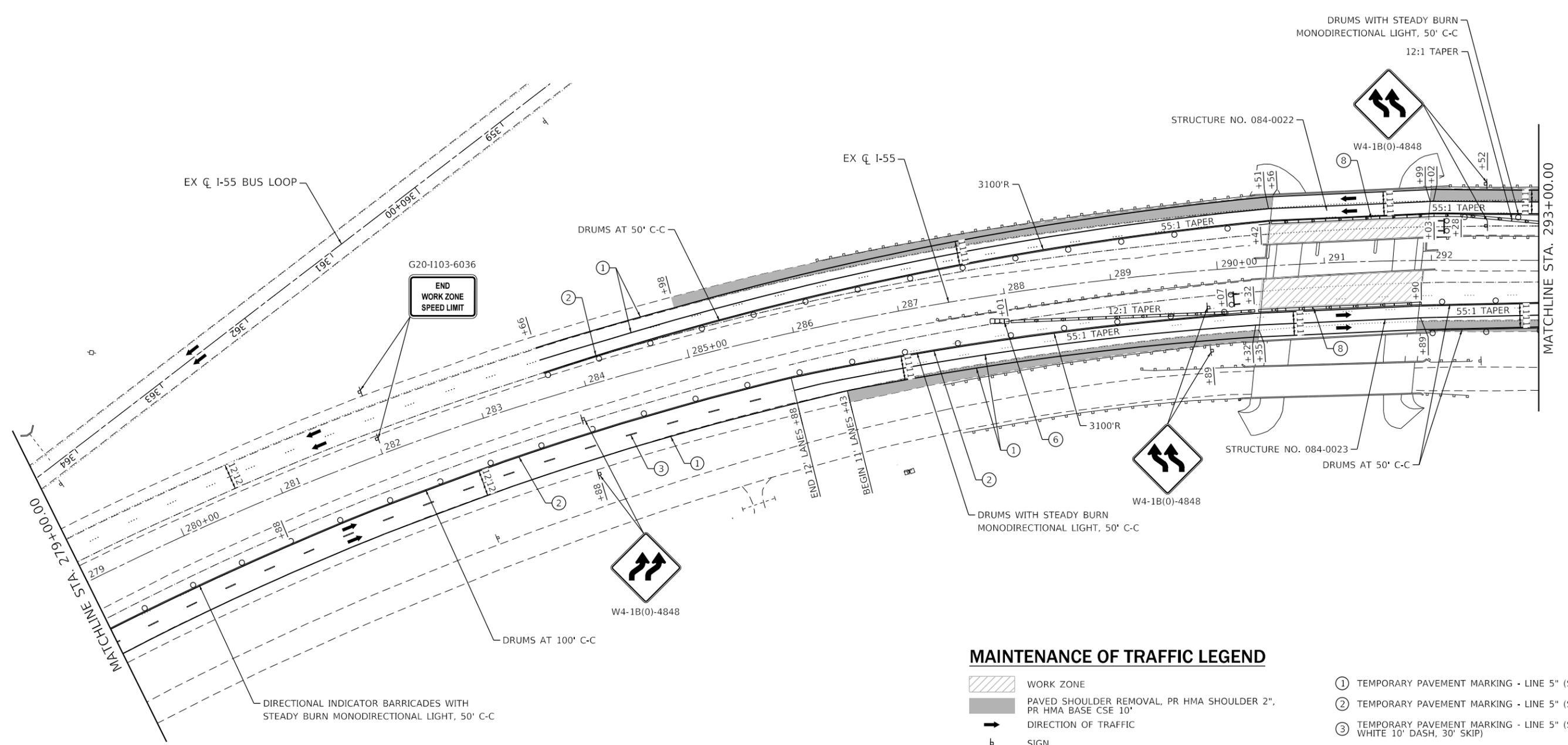
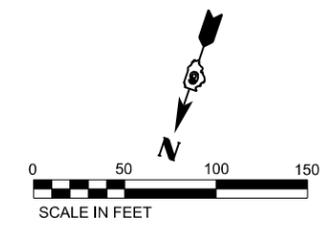
USER NAME = Lin	DESIGNED - RC	REVISED -
	DRAWN - RC	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - FL	REVISED -
PLOT DATE = 12/11/2018	DATE - 12/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-55/I-72 STRUCTURE REPAIRS
STAGING PLAN - STAGE 1: S.N. 084-0022 & 084-0023**

SCALE: 1"=50' SHEET 6 OF 16 SHEETS STA. 264+00.00 TO STA. 279+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(84-2) & (84-3) BRR	SANGAMON	98	17
			CONTRACT NO. 72197	
ILLINOIS FED. AID PROJECT				

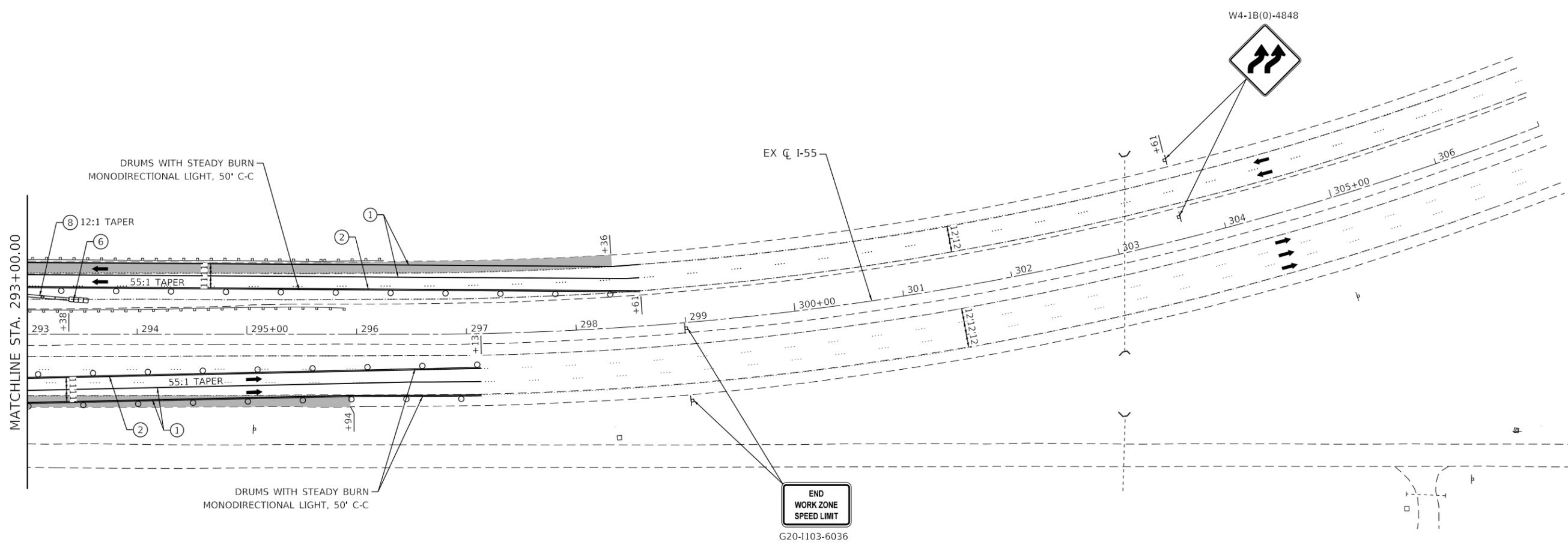
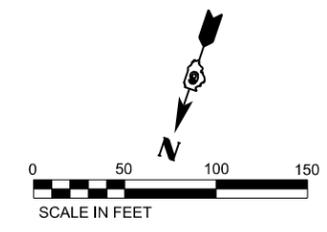


MAINTENANCE OF TRAFFIC LEGEND

- | | | | |
|--|--|---|--|
| | WORK ZONE | ① | TEMPORARY PAVEMENT MARKING - LINE 5" (SOLID WHITE) |
| | PAVED SHOULDER REMOVAL, PR HMA SHOULDER 2", PR HMA BASE CSE 10' | ② | TEMPORARY PAVEMENT MARKING - LINE 5" (SOLID YELLOW) |
| | DIRECTION OF TRAFFIC | ③ | TEMPORARY PAVEMENT MARKING - LINE 5" (SKIP-DASH, WHITE 10' DASH, 30' SKIP) |
| | SIGN | ④ | TEMPORARY PAVEMENT MARKING - LINE 5" (SKIP-DASH, WHITE 2' DASH, 6' SKIP) |
| | DIRECTIONAL INDICATOR BARRICADE, DRUM, OR T2 BARRICADE (SEE PLAN SHEET FOR SPACING-STEADY BURN MONODIRECTIONAL LIGHT IN TAPERS ONLY) | ⑤ | TEMPORARY PAVEMENT MARKING - LINE 8" (SOLID WHITE) |
| | TYPE III BARRICADE WITH FLASHING LIGHTS | ⑥ | IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3 |
| | ARROW BOARD | ⑦ | IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3 |
| | TEMPORARY CONCRETE BARRIER | ⑧ | TEMPORARY CONCRETE BARRIER |
| | MONODIRECTIONAL BARRIER WALL REFLECTOR | | |
| | IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3 | | |

USER NAME = Lin	DESIGNED - RC	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN - RC	REVISED -
PLOT DATE = 12/13/2018	CHECKED - FL	REVISED -
	DATE - 12/2018	REVISED -

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(84-2) & (84-3) BRR	SANGAMON	98	18
CONTRACT NO. 72197				
ILLINOIS FED. AID PROJECT				

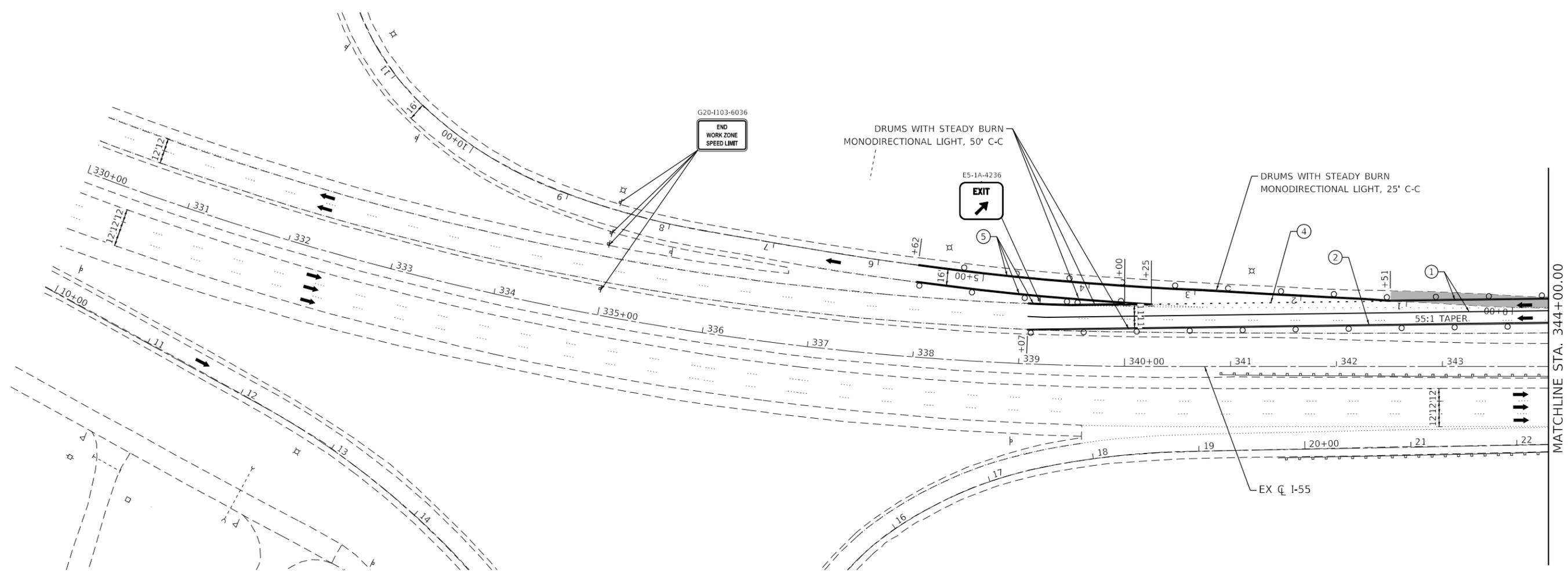
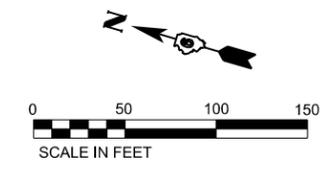


MAINTENANCE OF TRAFFIC LEGEND

- WORK ZONE
 - PAVED SHOULDER REMOVAL, PR HMA SHOULDER 2", PR HMA BASE CSE 10'
 - DIRECTION OF TRAFFIC
 - SIGN
 - DIRECTIONAL INDICATOR BARRICADE, DRUM, OR T2 BARRICADE (SEE PLAN SHEET FOR SPACING-STEADY BURN MONODIRECTIONAL LIGHT IN TAPERS ONLY)
 - TYPE III BARRICADE WITH FLASHING LIGHTS
 - ARROW BOARD
 - TEMPORARY CONCRETE BARRIER
 - MONODIRECTIONAL BARRIER WALL REFLECTOR
 - IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3
- ① TEMPORARY PAVEMENT MARKING - LINE 5" (SOLID WHITE)
 - ② TEMPORARY PAVEMENT MARKING - LINE 5" (SOLID YELLOW)
 - ③ TEMPORARY PAVEMENT MARKING - LINE 5" (SKIP-DASH, WHITE 10' DASH, 30' SKIP)
 - ④ TEMPORARY PAVEMENT MARKING - LINE 5" (SKIP-DASH, WHITE 2' DASH, 6' SKIP)
 - ⑤ TEMPORARY PAVEMENT MARKING - LINE 8" (SOLID WHITE)
 - ⑥ IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3
 - ⑦ IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3
 - ⑧ TEMPORARY CONCRETE BARRIER

USER NAME = Lin	DESIGNED - RC	REVISED -
DRAWN - RC	REVISIONS -	
PLOT SCALE = 100,0000' / in.	CHECKED - FL	REVISED -
PLOT DATE = 12/11/2018	DATE - 12/2018	REVISED -

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(84-2) & (84-3) BRR	SANGAMON	98	19
ILLINOIS FED. AID PROJECT			CONTRACT NO. 72197	



MAINTENANCE OF TRAFFIC LEGEND

- WORK ZONE
- PAVED SHOULDER REMOVAL, PR HMA SHOULDER 2", PR HMA BASE CSE 10'
- DIRECTION OF TRAFFIC
- SIGN
- DIRECTIONAL INDICATOR BARRICADE, DRUM, OR T2 BARRICADE (SEE PLAN SHEET FOR SPACING-STEADY BURN MONODIRECTIONAL LIGHT IN TAPERS ONLY)
- TYPE III BARRICADE WITH FLASHING LIGHTS
- ARROW BOARD
- TEMPORARY CONCRETE BARRIER
- MONODIRECTIONAL BARRIER WALL REFLECTOR
- IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3
- ① TEMPORARY PAVEMENT MARKING - LINE 5" (SOLID WHITE)
- ② TEMPORARY PAVEMENT MARKING - LINE 5" (SOLID YELLOW)
- ③ TEMPORARY PAVEMENT MARKING - LINE 5" (SKIP-DASH, WHITE 10' DASH, 30' SKIP)
- ④ TEMPORARY PAVEMENT MARKING - LINE 5" (SKIP-DASH, WHITE 2' DASH, 6' SKIP)
- ⑤ TEMPORARY PAVEMENT MARKING - LINE 8" (SOLID WHITE)
- ⑥ IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3
- ⑦ IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3
- ⑧ TEMPORARY CONCRETE BARRIER



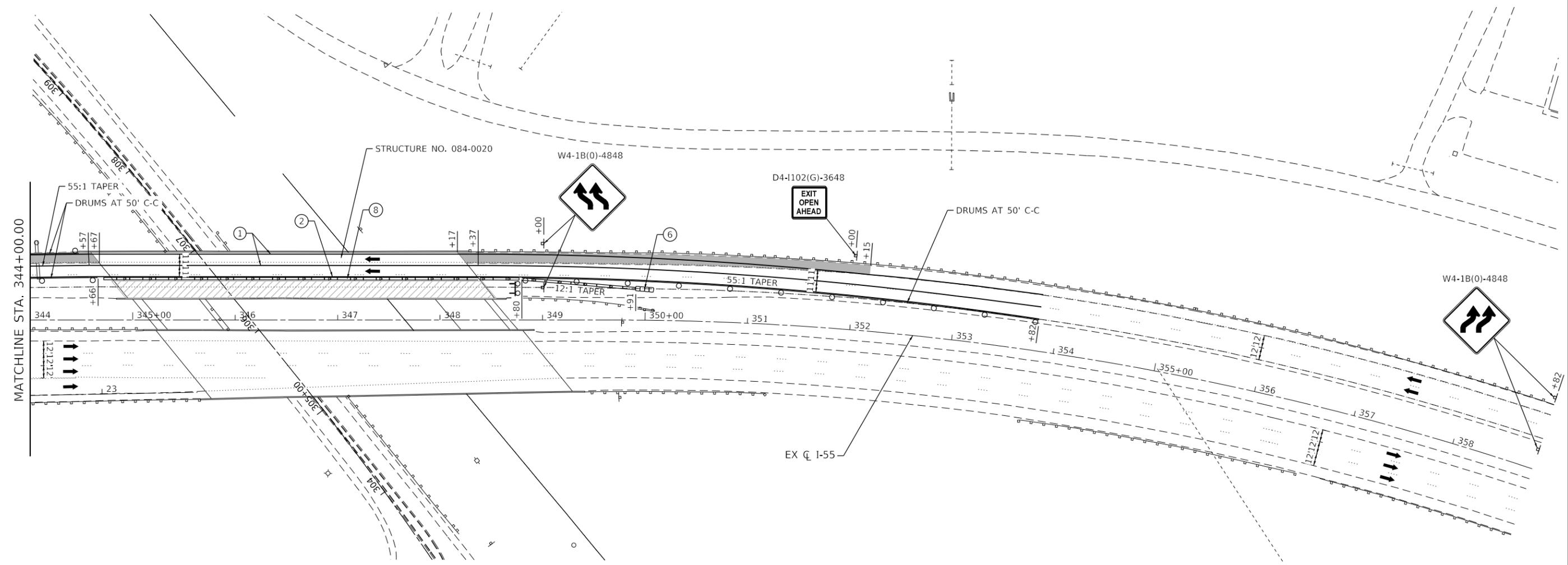
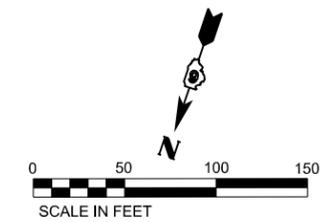
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DRAWN - RC	REVISIONS	
PLOT SCALE = 100,0000' / in.	CHECKED - FL	REVISIONS
PLOT DATE = 12/11/2018	DATE - 12/2018	REVISIONS

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-55/I-72 STRUCTURE REPAIRS
STAGING PLAN - STAGE 1: S.N. 084-0020**

SCALE: 1"=50' SHEET 9 OF 16 SHEETS STA. 330+00.00 TO STA. 344+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(84-2) & (84-3) BRR	SANGAMON	98	20
CONTRACT NO. 72197				
ILLINOIS FED. AID PROJECT				

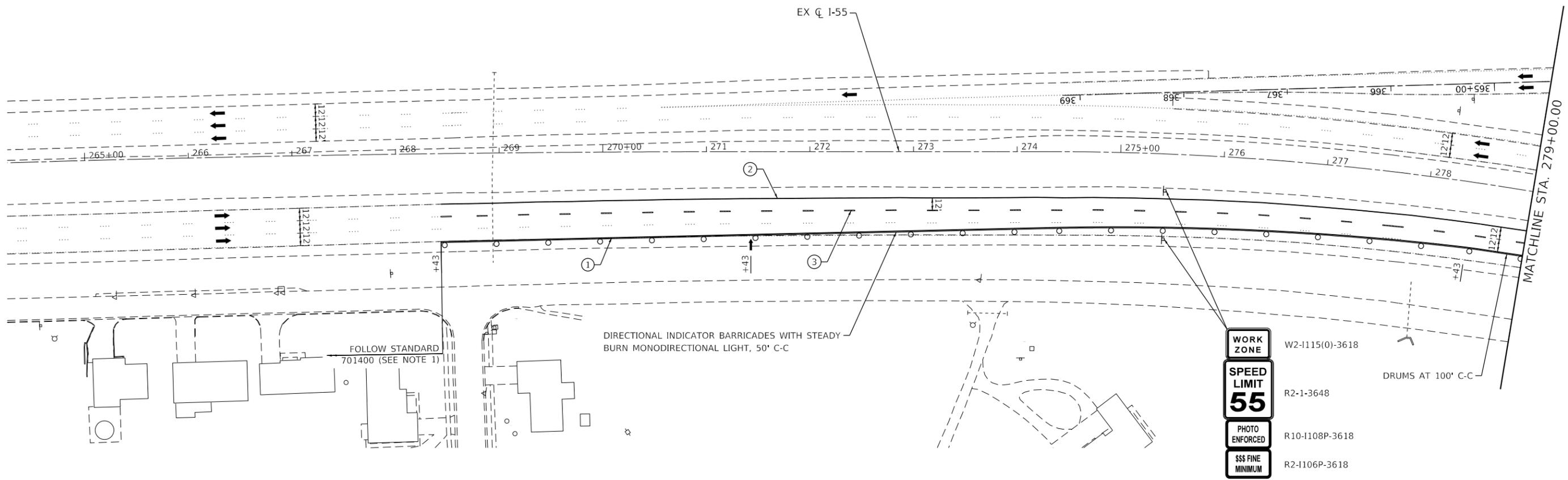
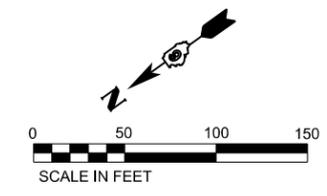


MAINTENANCE OF TRAFFIC LEGEND

- WORK ZONE
 - PAVED SHOULDER REMOVAL, PR HMA SHOULDER 2", PR HMA BASE CSE 10'
 - DIRECTION OF TRAFFIC
 - SIGN
 - DIRECTIONAL INDICATOR BARRICADE, DRUM, OR T2 BARRICADE (SEE PLAN SHEET FOR SPACING-STEADY BURN MONODIRECTIONAL LIGHT IN TAPERS ONLY)
 - TYPE III BARRICADE WITH FLASHING LIGHTS
 - ARROW BOARD
 - TEMPORARY CONCRETE BARRIER
 - MONODIRECTIONAL BARRIER WALL REFLECTOR
 - IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3
- ① TEMPORARY PAVEMENT MARKING - LINE 5" (SOLID WHITE)
 - ② TEMPORARY PAVEMENT MARKING - LINE 5" (SOLID YELLOW)
 - ③ TEMPORARY PAVEMENT MARKING - LINE 5" (SKIP-DASH, WHITE 10' DASH, 30' SKIP)
 - ④ TEMPORARY PAVEMENT MARKING - LINE 5" (SKIP-DASH, WHITE 2' DASH, 6' SKIP)
 - ⑤ TEMPORARY PAVEMENT MARKING - LINE 8" (SOLID WHITE)
 - ⑥ IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3
 - ⑦ IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3
 - ⑧ TEMPORARY CONCRETE BARRIER

USER NAME = Lin	DESIGNED - RC	REVISED -
DRAWN - RC	REVISIONS -	
PLOT SCALE = 100,0000' / in.	CHECKED - FL	REVISIONS -
PLOT DATE = 12/13/2018	DATE - 12/2018	REVISIONS -

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(84-2) & (84-3) BRR	SANGAMON	98	21
CONTRACT NO. 72197				
ILLINOIS FED. AID PROJECT				



- WORK ZONE W2-I115(0)-3618
- SPEED LIMIT 55 R2-1-3648
- PHOTO ENFORCED R10-I108P-3618
- \$\$\$ FINE MINIMUM R2-I106P-3618

DIRECTIONAL INDICATOR BARRICADES WITH STEADY BURN MONODIRECTIONAL LIGHT, 50' C-C

FOLLOW STANDARD 701400 (SEE NOTE 1)

DRUMS AT 100' C-C

MATCHLINE STA. 279+00.00

NOTES:

1. "ROAD CONSTRUCTION AHEAD 2 MILES" AND WORK ZONE SPEED LIMIT ARRAY SIGNS SHALL BE ERECTED BY THE CONTRACTOR ALONG THE SB ENTRANCE RAMP OF THE WEIGH STATION UPSTREAM OF THE WORK ZONE. LOCATIONS SHALL BE AS DETERMINED BY THE ENGINEER.

MAINTENANCE OF TRAFFIC LEGEND

- WORK ZONE
 - PAVED SHOULDER REMOVAL, PR HMA SHOULDER 2", PR HMA BASE CSE 10'
 - DIRECTION OF TRAFFIC
 - SIGN
 - DIRECTIONAL INDICATOR BARRICADE, DRUM, OR T2 BARRICADE (SEE PLAN SHEET FOR SPACING-STEADY BURN MONODIRECTIONAL LIGHT IN TAPERS ONLY)
 - TYPE III BARRICADE WITH FLASHING LIGHTS
 - ARROW BOARD
 - TEMPORARY CONCRETE BARRIER
 - MONODIRECTIONAL BARRIER WALL REFLECTOR
 - IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3
- ① TEMPORARY PAVEMENT MARKING - LINE 5" (SOLID WHITE)
 - ② TEMPORARY PAVEMENT MARKING - LINE 5" (SOLID YELLOW)
 - ③ TEMPORARY PAVEMENT MARKING - LINE 5" (SKIP-DASH, WHITE 10' DASH, 30' SKIP)
 - ④ TEMPORARY PAVEMENT MARKING - LINE 5" (SKIP-DASH, WHITE 2' DASH, 6' SKIP)
 - ⑤ TEMPORARY PAVEMENT MARKING - LINE 8" (SOLID WHITE)
 - ⑥ IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3
 - ⑦ IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3
 - ⑧ TEMPORARY CONCRETE BARRIER

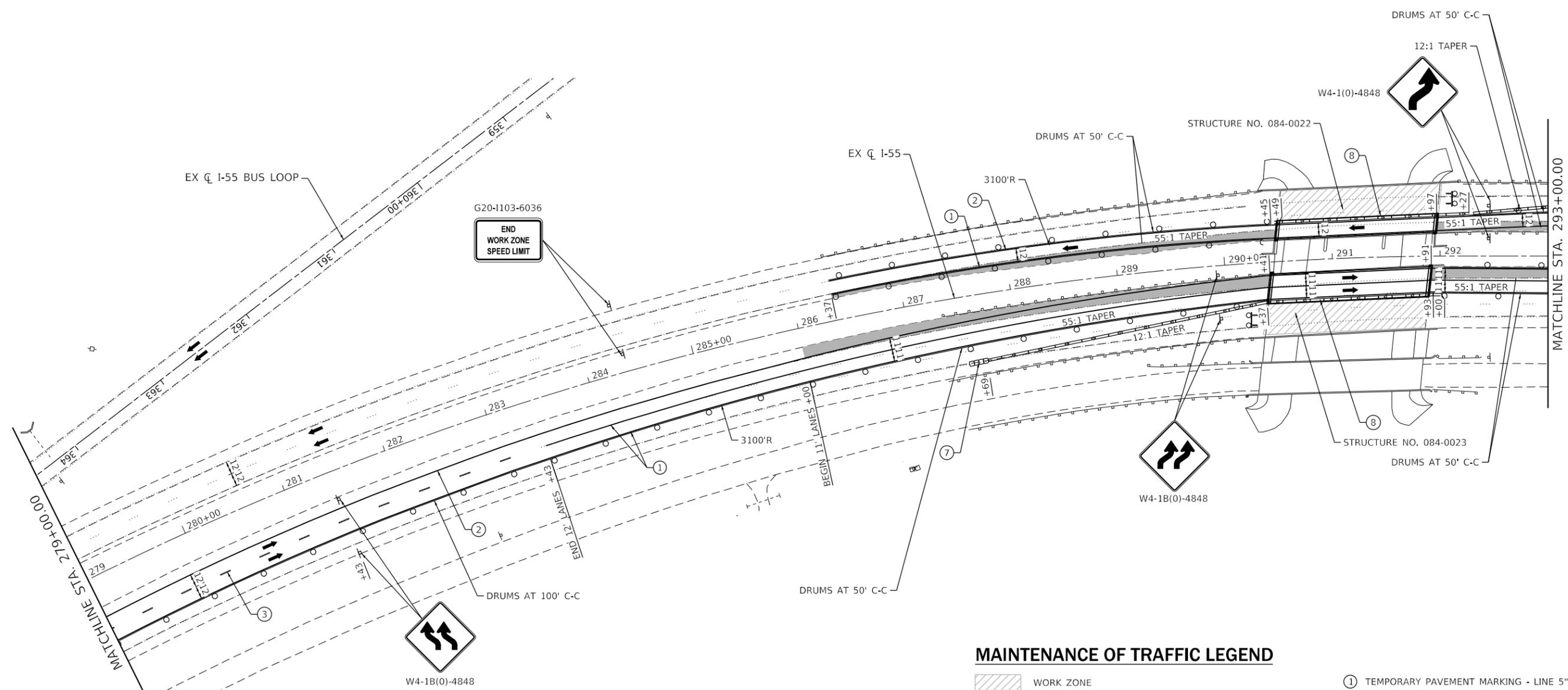
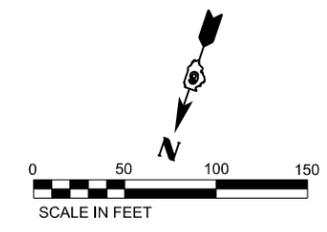


USER NAME = Lin	DESIGNED - RC	REVISED -
	DRAWN - RC	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - FL	REVISED -
PLOT DATE = 12/11/2018	DATE - 12/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-55/I-72 STRUCTURE REPAIRS
STAGING PLAN - STAGE 2: S.N. 084-0022 & 084-0023
SCALE: 1"=50' SHEET 11 OF 16 SHEETS STA. 264+00.00 TO STA. 279+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(84-2) & (84-3) BRR	SANGAMON	98	22
			CONTRACT NO. 72197	
ILLINOIS FED. AID PROJECT				

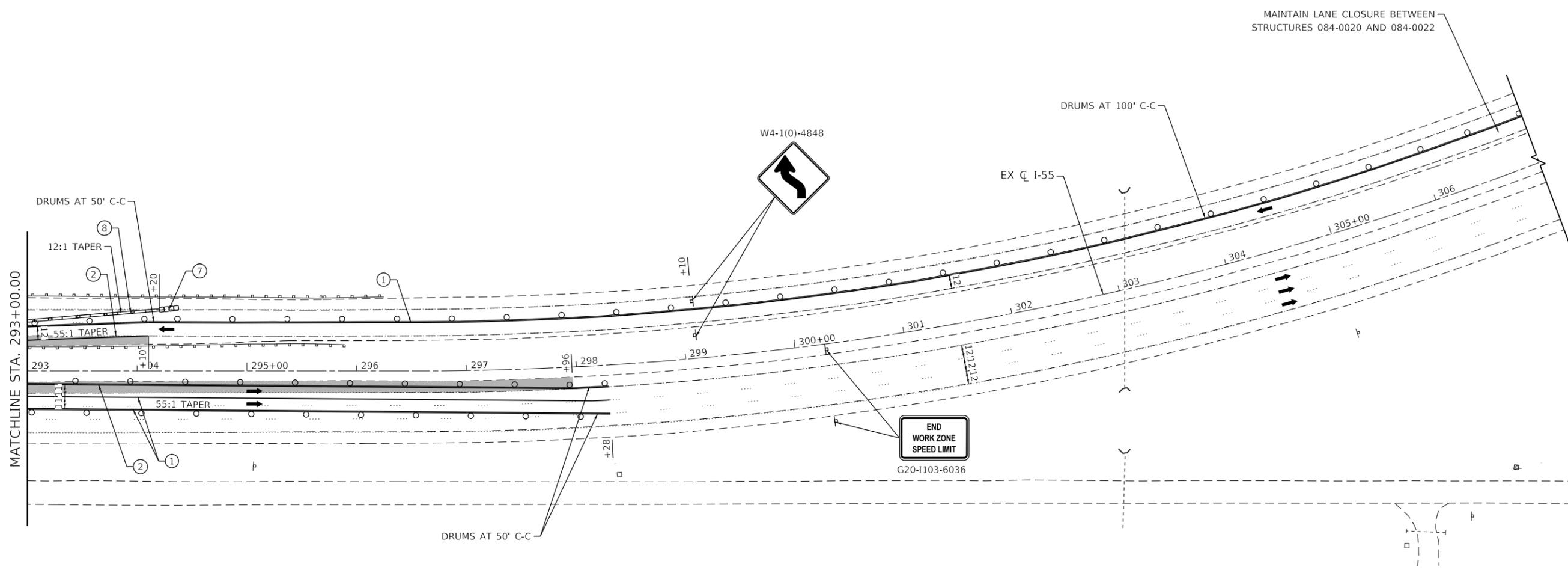
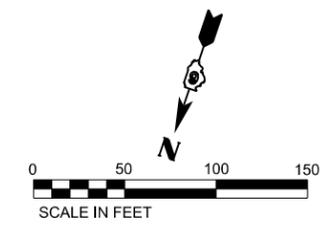


MAINTENANCE OF TRAFFIC LEGEND

- | | | | |
|--|--|---|--|
| | WORK ZONE | ① | TEMPORARY PAVEMENT MARKING - LINE 5" (SOLID WHITE) |
| | PAVED SHOULDER REMOVAL, PR HMA SHOULDER 2", PR HMA BASE CSE 10' | ② | TEMPORARY PAVEMENT MARKING - LINE 5" (SOLID YELLOW) |
| | DIRECTION OF TRAFFIC | ③ | TEMPORARY PAVEMENT MARKING - LINE 5" (SKIP-DASH, WHITE 10' DASH, 30' SKIP) |
| | SIGN | ④ | TEMPORARY PAVEMENT MARKING - LINE 5" (SKIP-DASH, WHITE 2' DASH, 6' SKIP) |
| | DIRECTIONAL INDICATOR BARRICADE, DRUM, OR T2 BARRICADE (SEE PLAN SHEET FOR SPACING-STEADY BURN MONODIRECTIONAL LIGHT IN TAPERS ONLY) | ⑤ | TEMPORARY PAVEMENT MARKING - LINE 8" (SOLID WHITE) |
| | TYPE III BARRICADE WITH FLASHING LIGHTS | ⑥ | IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3 |
| | ARROW BOARD | ⑦ | IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3 |
| | TEMPORARY CONCRETE BARRIER | ⑧ | TEMPORARY CONCRETE BARRIER |
| | MONODIRECTIONAL BARRIER WALL REFLECTOR | | |
| | IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3 | | |

USER NAME = Lin	DESIGNED - RC	REVISED -
PLOT SCALE = 100.0000' / in.	DRAWN - RC	REVISED -
PLOT DATE = 12/13/2018	CHECKED - FL	REVISED -
	DATE - 12/2018	REVISED -

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(84-2) & (84-3) BRR	SANGAMON	98	23
CONTRACT NO. 72197				
ILLINOIS FED. AID PROJECT				

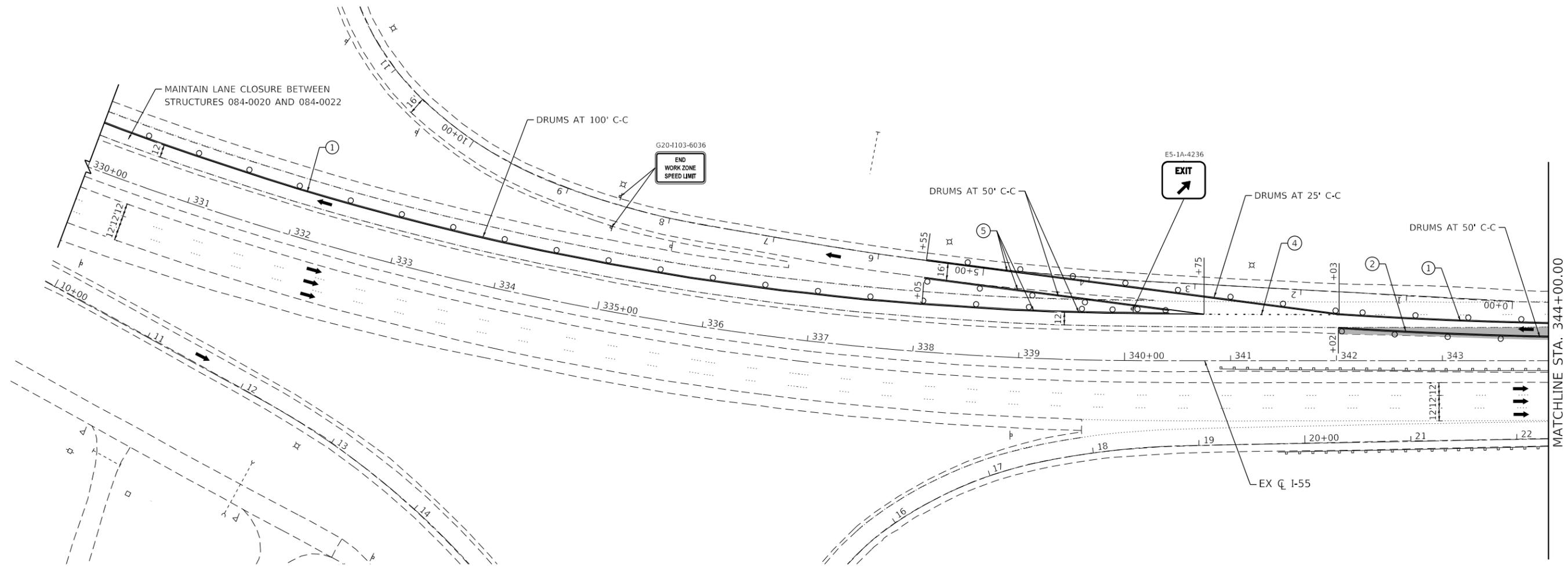
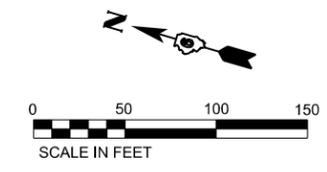


MAINTENANCE OF TRAFFIC LEGEND

- | | | | |
|--|--|---|--|
| | WORK ZONE | ① | TEMPORARY PAVEMENT MARKING - LINE 5" (SOLID WHITE) |
| | PAVED SHOULDER REMOVAL, PR HMA SHOULDER 2", PR HMA BASE CSE 10' | ② | TEMPORARY PAVEMENT MARKING - LINE 5" (SOLID YELLOW) |
| | DIRECTION OF TRAFFIC | ③ | TEMPORARY PAVEMENT MARKING - LINE 5" (SKIP-DASH, WHITE 10' DASH, 30' SKIP) |
| | SIGN | ④ | TEMPORARY PAVEMENT MARKING - LINE 5" (SKIP-DASH, WHITE 2' DASH, 6' SKIP) |
| | DIRECTIONAL INDICATOR BARRICADE, DRUM, OR T2 BARRICADE (SEE PLAN SHEET FOR SPACING-STEADY BURN MONODIRECTIONAL LIGHT IN TAPERS ONLY) | ⑤ | TEMPORARY PAVEMENT MARKING - LINE 8" (SOLID WHITE) |
| | TYPE III BARRICADE WITH FLASHING LIGHTS | ⑥ | IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3 |
| | ARROW BOARD | ⑦ | IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3 |
| | TEMPORARY CONCRETE BARRIER | ⑧ | TEMPORARY CONCRETE BARRIER |
| | MONODIRECTIONAL BARRIER WALL REFLECTOR | | |
| | IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3 | | |

USER NAME = Lin	DESIGNED - RC	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN - RC	REVISED -
PLOT DATE = 12/13/2018	CHECKED - FL	REVISED -
	DATE - 12/2018	REVISED -

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(84-2) & (84-3) BRR	SANGAMON	98	24
			CONTRACT NO. 72197	
ILLINOIS FED. AID PROJECT				

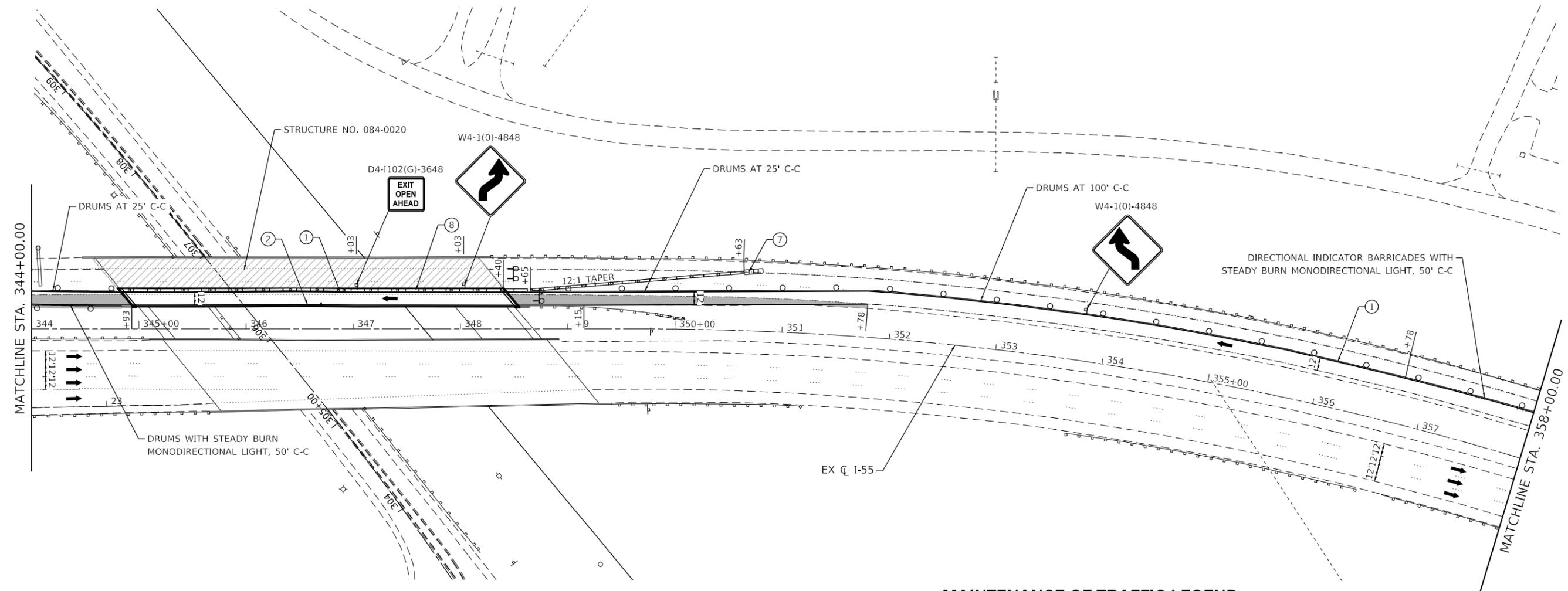
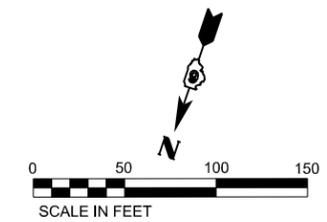


MAINTENANCE OF TRAFFIC LEGEND

- WORK ZONE
- PAVED SHOULDER REMOVAL, PR HMA SHOULDER 2", PR HMA BASE CSE 10'
- DIRECTION OF TRAFFIC
- SIGN
- DIRECTIONAL INDICATOR BARRICADE, DRUM, OR T2 BARRICADE (SEE PLAN SHEET FOR SPACING-STEADY BURN MONODIRECTIONAL LIGHT IN TAPERS ONLY)
- TYPE III BARRICADE WITH FLASHING LIGHTS
- ARROW BOARD
- TEMPORARY CONCRETE BARRIER
- MONODIRECTIONAL BARRIER WALL REFLECTOR
- IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3
- ① TEMPORARY PAVEMENT MARKING - LINE 5" (SOLID WHITE)
- ② TEMPORARY PAVEMENT MARKING - LINE 5" (SOLID YELLOW)
- ③ TEMPORARY PAVEMENT MARKING - LINE 5" (SKIP-DASH, WHITE 10' DASH, 30' SKIP)
- ④ TEMPORARY PAVEMENT MARKING - LINE 5" (SKIP-DASH, WHITE 2' DASH, 6' SKIP)
- ⑤ TEMPORARY PAVEMENT MARKING - LINE 8" (SOLID WHITE)
- ⑥ IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3
- ⑦ IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3
- ⑧ TEMPORARY CONCRETE BARRIER

USER NAME = Lin	DESIGNED - RC	REVISED -
	DRAWN - RC	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED - FL	REVISED -
PLOT DATE = 12/13/2018	DATE - 12/2018	REVISED -

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(84-2) & (84-3) BRR	SANGAMON	98	25
			CONTRACT NO. 72197	
ILLINOIS FED. AID PROJECT				

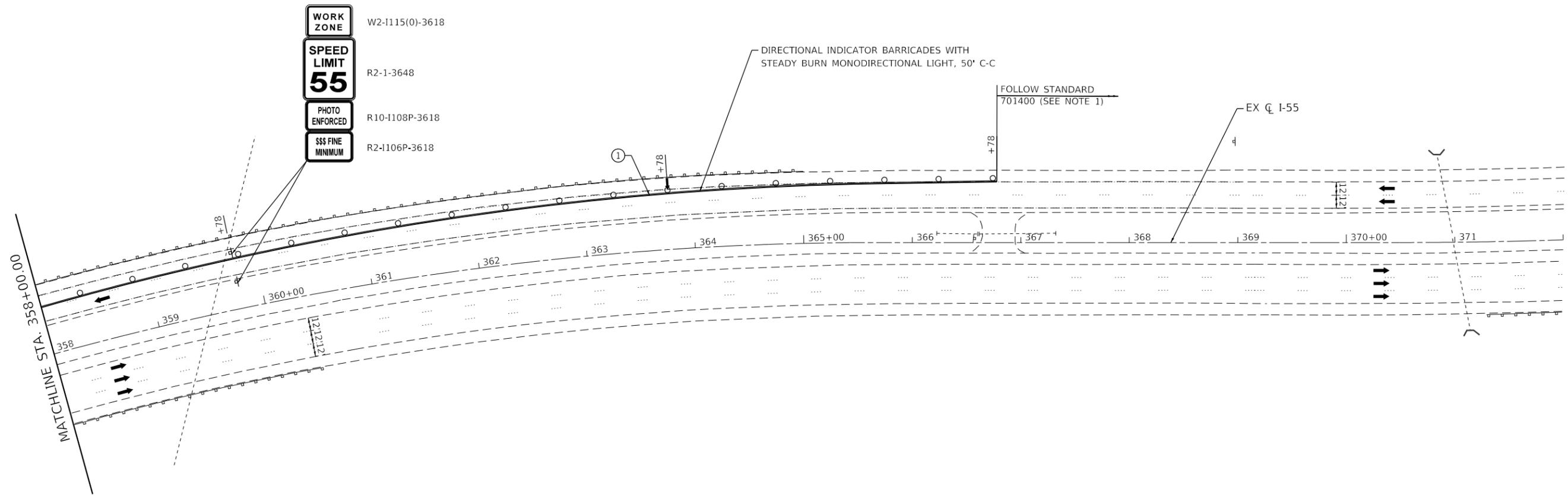
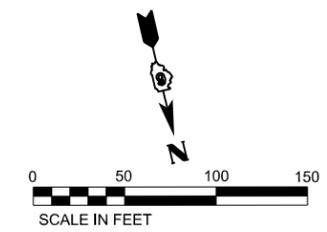


MAINTENANCE OF TRAFFIC LEGEND

- WORK ZONE
 - PAVED SHOULDER REMOVAL, PR HMA SHOULDER 2", PR HMA BASE CSE 10'
 - DIRECTION OF TRAFFIC
 - SIGN
 - DIRECTIONAL INDICATOR BARRICADE, DRUM, OR T2 BARRICADE (SEE PLAN SHEET FOR SPACING-STEADY BURN MONODIRECTIONAL LIGHT IN TAPERS ONLY)
 - TYPE III BARRICADE WITH FLASHING LIGHTS
 - ARROW BOARD
 - TEMPORARY CONCRETE BARRIER
 - MONODIRECTIONAL BARRIER WALL REFLECTOR
 - IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3
- ① TEMPORARY PAVEMENT MARKING - LINE 5" (SOLID WHITE)
 - ② TEMPORARY PAVEMENT MARKING - LINE 5" (SOLID YELLOW)
 - ③ TEMPORARY PAVEMENT MARKING - LINE 5" (SKIP-DASH, WHITE 10' DASH, 30' SKIP)
 - ④ TEMPORARY PAVEMENT MARKING - LINE 5" (SKIP-DASH, WHITE 2' DASH, 6' SKIP)
 - ⑤ TEMPORARY PAVEMENT MARKING - LINE 8" (SOLID WHITE)
 - ⑥ IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3
 - ⑦ IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3
 - ⑧ TEMPORARY CONCRETE BARRIER

USER NAME = Lin	DESIGNED - RC	REVISED -
DRAWN - RC	REVISIONS -	
PLOT SCALE = 100,0000' / in.	CHECKED - FL	REVISED -
PLOT DATE = 12/13/2018	DATE - 12/2018	REVISED -

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(84-2) & (84-3) BRR	SANGAMON	98	26
CONTRACT NO. 72197				
ILLINOIS FED. AID PROJECT				



- WORK ZONE** W2-1115(0)-3618
- SPEED LIMIT 55** R2-1-3648
- PHOTO ENFORCED** R10-1108P-3618
- SSS FINE MINIMUM** R2-1106P-3618

DIRECTIONAL INDICATOR BARRICADES WITH STEADY BURN MONODIRECTIONAL LIGHT, 50' C-C

FOLLOW STANDARD 701400 (SEE NOTE 1)

EX C I-55

MATCHLINE STA. 358+00.00

MAINTENANCE OF TRAFFIC LEGEND

- WORK ZONE
- PAVED SHOULDER REMOVAL, PR HMA SHOULDER 2", PR HMA BASE CSE 10'
- DIRECTION OF TRAFFIC
- SIGN
- DIRECTIONAL INDICATOR BARRICADE, DRUM, OR T2 BARRICADE (SEE PLAN SHEET FOR SPACING-STEADY BURN MONODIRECTIONAL LIGHT IN TAPERS ONLY)
- TYPE III BARRICADE WITH FLASHING LIGHTS
- ARROW BOARD
- TEMPORARY CONCRETE BARRIER
- MONODIRECTIONAL BARRIER WALL REFLECTOR
- IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3
- ① TEMPORARY PAVEMENT MARKING - LINE 5" (SOLID WHITE)
- ② TEMPORARY PAVEMENT MARKING - LINE 5" (SOLID YELLOW)
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- ⑤ TEMPORARY PAVEMENT MARKING - LINE 8" (SOLID WHITE)
- ⑥ IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3
- ⑦ IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3
- ⑧ TEMPORARY CONCRETE BARRIER

NOTES:
 1. "ROAD CONSTRUCTION AHEAD 2 MILES" AND WORK ZONE SPEED LIMIT ARRAY SIGNS SHALL BE ERECTED BY THE CONTRACTOR ALONG NB ENTRANCE RAMP OF THE REST AREA UPSTREAM OF THE WORK ZONE. LOCATIONS SHALL BE AS DETERMINED BY THE ENGINEER.



USER NAME = Lin	DESIGNED - RC	REVISED -
DRAWN - RC	REVISIONS -	
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-55/I-72 STRUCTURE REPAIRS
STAGING PLAN - STAGE 2: S.N. 084-0020**

SCALE: 1"=50' SHEET 16 OF 16 SHEETS STA. 358+00.00 TO STA. 372+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(84-2) & (84-3) BRR	SANGAMON	98	27
CONTRACT NO. 72197				
ILLINOIS FED. AID PROJECT				

MAINTENANCE OR TRAFFIC GENERAL NOTES

BRIDGE REPAIRS

1. THE MAINTENANCE OF TRAFFIC PLANS SHALL SERVE AS A GUIDE FOR THE SAFE DIVERSION OF TRAFFIC DURING THE EXECUTION OF THIS CONTRACT. THE CONTRACTOR MAY MODIFY THE MAINTENANCE OF TRAFFIC PLANS TO MEET CONSTRUCTION NEEDS BUT NOT AT THE EXPENSE OF PUBLIC SAFETY OR CONVENIENCE. ANY CHANGES TO THE TRAFFIC CONTROL PLANS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
2. EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH TEMPORARY MARKINGS SHALL BE REMOVED. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT FOR PAVEMENT MARKING REMOVAL.
3. EXISTING RAISED REFLECTIVE PAVEMENT MARKER REFLECTORS THAT CONFLICT WITH THE REVISED TRAFFIC PATTERN SHALL BE REMOVED FROM THE EXISTING CASTINGS LOCATED IN THE PAVEMENT. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REMOVAL.
4. THE CONTRACTOR SHALL REMOVE ALL TEMPORARY PAVEMENT MARKINGS THAT CONFLICT WITH THE FOLLOWING STAGE OR THE FINAL PAVEMENT MARKING. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR PAVEMENT MARKING REMOVAL.
5. ALL TRAFFIC CONTROL DEVICES SHALL BE REFLECTORIZED PRIOR TO INSTALLATION AND CLEANED AS SPECIFIED IN THE TRAFFIC CONTROL SPECIAL PROVISIONS OR AS DIRECTED BY THE ENGINEER.
6. ALL DRUMS, VERTICAL PANELS, AND BARRICADES ADJACENT TO THE EDGE OF THE TRAVELED WAY SHALL BE EQUIPPED WITH MONO-DIRECTIONAL STEADY BURNING LIGHTS.
7. EXISTING SIGNS WITHIN THE LIMITS OF TRAFFIC CONTROL WHICH ARE OBSTRUCTED BY OR OTHERWISE INTERFERED WITH BY CONSTRUCTION OPERATIONS OF DESIGNATED TRAFFIC CONTROL, SHALL BE COVERED OR REMOVED BY THE CONTRACTOR UNLESS SPECIFIED IN THE PLANS OR WHEN DIRECTED BY THE ENGINEER. THIS WORK SHALL BE AS SPECIFIED IN ARTICLE 107.25 OF THE STANDARD SPECIFICATIONS.
8. CHANGEABLE MESSAGE SIGNS SHALL BE INSTALLED AS SPECIFIED IN THE SPECIAL PROVISIONS PRIOR TO THE START OF CONSTRUCTION.
9. SEE STRUCTURAL PLANS FOR ADDITIONAL BRIDGE STAGING INFORMATION.
10. THE CONTRACTOR SHALL CONTACT THE DISTRICT 6 TRAFFIC CONTROL SECTION OF THE BUREAU OF OPERATIONS AT (217) 785-5312 AT LEAST 21 DAYS PRIOR TO IMPLEMENTING ANY LANE CLOSURES, 48 HOURS PRIOR TO A SWITCH IN TRAFFIC STAGING, AND ONE WEEK PRIOR TO CLOSING A RAMP.

SUGGESTED SEQUENCE OF OPERATIONS

PRE-STAGE 1

1. CLOSE EB OUTSIDE LANE WITH STANDARDS 701422 AND 701411.
2. REMOVE PAVED SHOULDERS AND CONSTRUCT HMA BASE COURSE 10"
3. CLOSE WB OUTSIDE LANE WITH STANDARDS 701400, 701401, AND 701411.
4. REMOVE PAVED SHOULDERS AND CONSTRUCT HMA BASE COURSE 10"

STAGE 1

1. INSTALL TRAFFIC CONTROL DEVICES AS SHOWN ON THE PLAN SHEETS "MAINTENANCE OF TRAFFIC STAGE 1" AND SHIFT TRAFFIC TO THE OUTSIDE LANES.
2. RECONSTRUCT EXPANSION JOINTS.
3. SCARIFY DECK AND CONSTRUCT FULL DEPTH PATCHES.
4. CONSTRUCT MICROSILICA CONCRETE OVERLAY
5. ADJUST SHOULDER INLETS
6. MILL BUTT JOINTS AND RESURFACE PAVEMENT AND SHOULDERS.
7. CONSTRUCT AGGREGATE WEDGE SHOULDERS.
8. INSTALL PROPOSED GUARDRAIL, TRAFFIC BARRIER TERMINALS, TERMINAL MARKERS, AND GUARDRAIL MARKERS.
9. CONSTRUCT DIAMOND GRINDING (BRIDGE SECTION) AND BRIDGE DECK GROOVING.

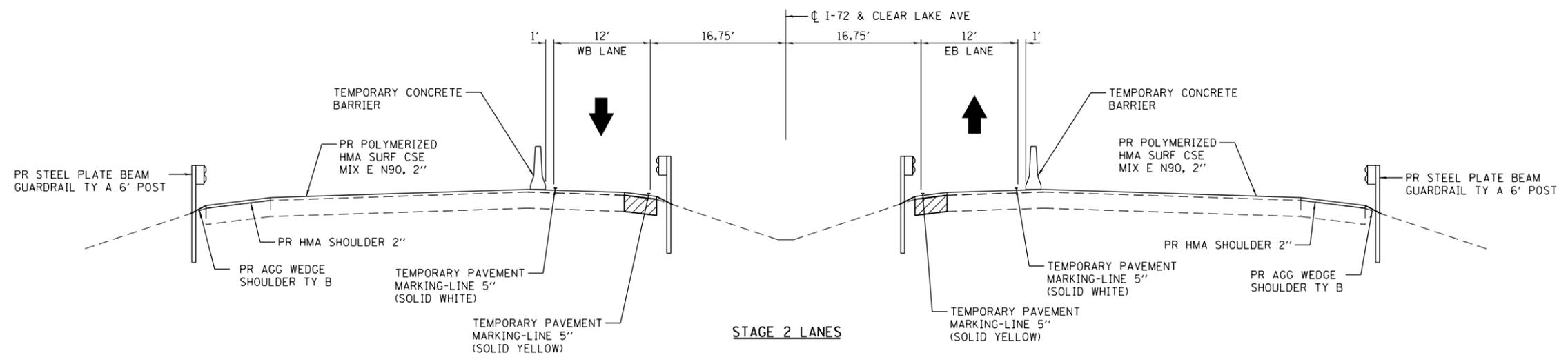
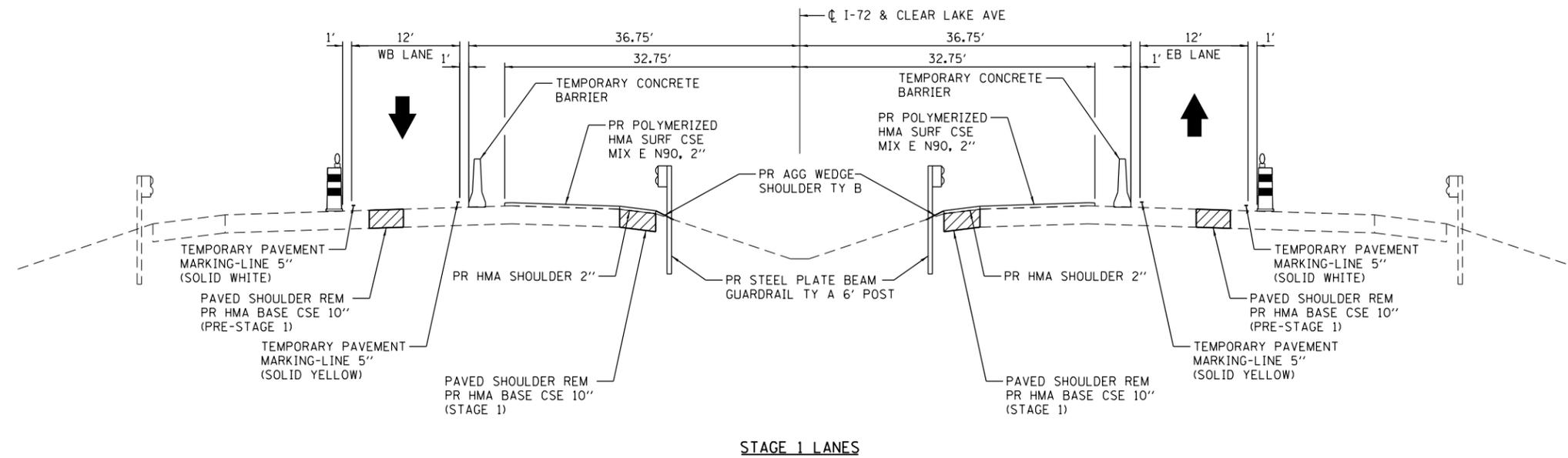
STAGE 2

1. INSTALL DETOUR SIGNING AND CLOSE THE FOUR LOOP RAMPS.
2. WITH THE FOUR LOOP RAMPS CLOSED, INSTALL TRAFFIC CONTROL DEVICES AND TEMPORARY PAVEMENT MARKINGS AS SHOWN ON THE PLANS SHEETS "MAINTENANCE OF TRAFFIC STAGE 2", AND SHIFT TRAFFIC TO THE MEDIAN LANES.
3. RECONSTRUCT EXPANSION JOINTS.
4. SCARIFY DECK AND CONSTRUCT FULL DEPTH PATCHES.
5. CONSTRUCT MICROSILICA CONCRETE OVERLAY
6. ADJUST SHOULDER INLETS
7. MILL BUTT JOINTS AND RESURFACE PAVEMENT AND SHOULDERS.
8. CONSTRUCT AGGREGATE WEDGE SHOULDERS.
9. INSTALL PROPOSED GUARDRAIL, TRAFFIC BARRIER TERMINALS, TERMINAL MARKERS, AND GUARDRAIL MARKERS.
10. CONSTRUCT DIAMOND GRINDING (BRIDGE SECTION) AND BRIDGE DECK GROOVING

FINAL PHASE

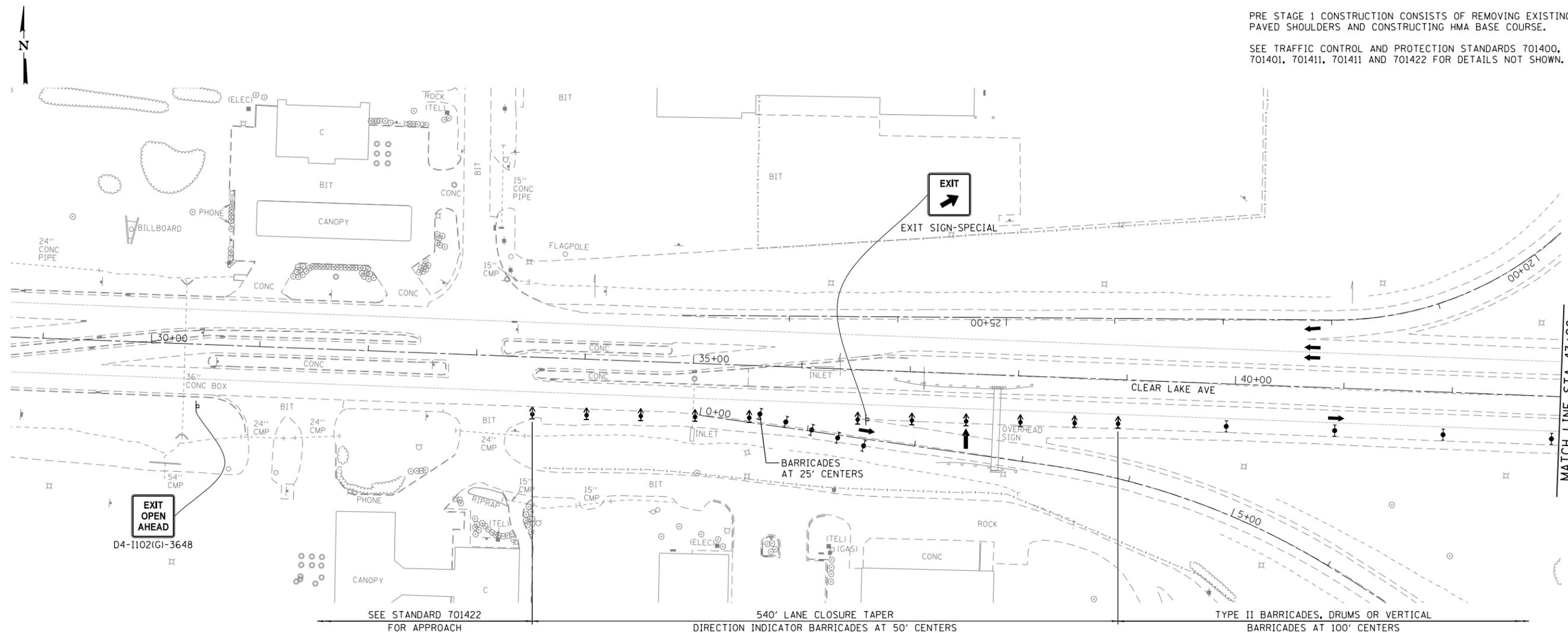
1. PLACE TRAFFIC IN THE PERMANENT LANES AND OPEN LOOP RAMPS
2. INSTALL PAVEMENT MARKINGS AND REPLACE REFLECTORS IN RAISED REFLECTIVE PAVEMENT MARKERS.

	JOB = 2304.7	DESIGNED - NAK	REVISED -	<p align="center">STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</p>	<p align="center">S.N. 084-0050, 084-0051, & 084-0103 MAINTENANCE OR TRAFFIC GENERAL NOTES AND SUGGESTED SEQUENCE OF OPERATIONS</p>	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	FILE NAME = d672h44-sht-prestage1.dgn	DRAWN - SJS	REVISED -			55	(84-2) & (84-3) BRR	SANGAMON	98	28
	PLOT SCALE = 100.0000' / in.	CHECKED - NAK	REVISED -			CONTRACT NO. 72J97				
	PLOT DATE = 12/11/2018	DATE - 6/21/2016	REVISED -			SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT



PRE STAGE 1 CONSTRUCTION CONSISTS OF REMOVING EXISTING PAVED SHOULDERS AND CONSTRUCTING HMA BASE COURSE.

SEE TRAFFIC CONTROL AND PROTECTION STANDARDS 701400, 701401, 701411, 701411 AND 701422 FOR DETAILS NOT SHOWN.



SEE STANDARD 701411 FOR RAMP DETAILS

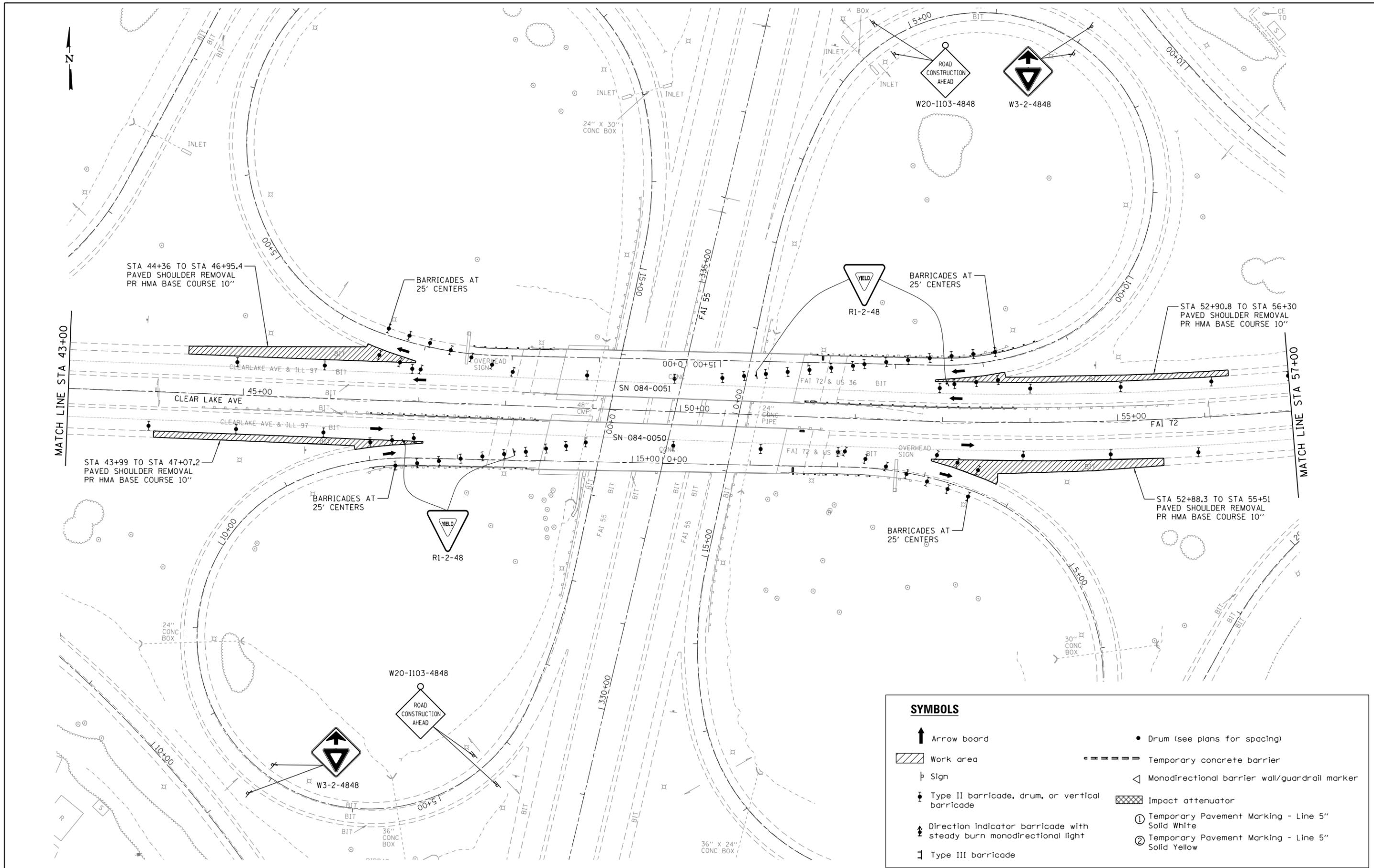
PRE-STAGE 1 CONSISTS OF RECONSTRUCTION OF THE OUTSIDE SHOULDERS FOR USE AS TEMPORARY LANES IN STAGE 1

TRAFFIC CONTROL

CLOSE EB CLEAR LAKE AVE OUTSIDE LANE USING TRAFFIC CONTROL AND PROTECTION STANDARDS 701422 AND 701411

CLOSE WB I-72 OUTSIDE LANE USING TRAFFIC CONTROL AND PROTECTION STANDARDS 701400, 701401 AND 701411

SYMBOLS	
↑ Arrow board	• Drum (see plans for spacing)
▨ Work area	--- Temporary concrete barrier
⊥ Sign	◁ Monodirectional barrier wall/guardrail marker
⊥ Type II barricade, drum, or vertical barricade	⊠ Impact attenuator
↑ Direction indicator barricade with steady burn monodirectional light	① Temporary Pavement Marking - Line 5" Solid White
⊥ Type III barricade	② Temporary Pavement Marking - Line 5" Solid Yellow



SYMBOLS	
	Arrow board
	Work area
	Sign
	Type II barricade, drum, or vertical barricade
	Direction indicator barricade with steady burn monodirectional light
	Type III barricade
	Drum (see plans for spacing)
	Temporary concrete barrier
	Monodirectional barrier wall/guardrail marker
	Impact attenuator
	Temporary Pavement Marking - Line 5' Solid White
	Temporary Pavement Marking - Line 5' Solid Yellow

CEC Cummins Engineering Corporation
Civil and Structural Engineering

JOB = 2304.7
FILE NAME = d672H44-sht-prestage1.dgn
PLOT SCALE = 100.0000' / in.
PLOT DATE = 12/13/2018

DESIGNED - NAK
DRAWN - SJS
CHECKED - NAK
DATE - 6/21/2016

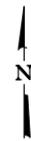
REVISED -
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REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PRE - STAGE 1 MAINTENANCE OF TRAFFIC

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(84-2) & (84-3) BRR	SANGAMON	98	31
CONTRACT NO. 72J97				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



TYPE II BARRICADES, DRUMS
OR VERTICAL BARRICADES
AT 100' CENTERS

1000' LANE CLOSURE TAPER
DIRECTION INDICATOR BARRICADES AT 50' CENTERS

SEE STANDARD 701400
FOR APPROACH

EXIT
OPEN
AHEAD
D4-1102(G)-3648

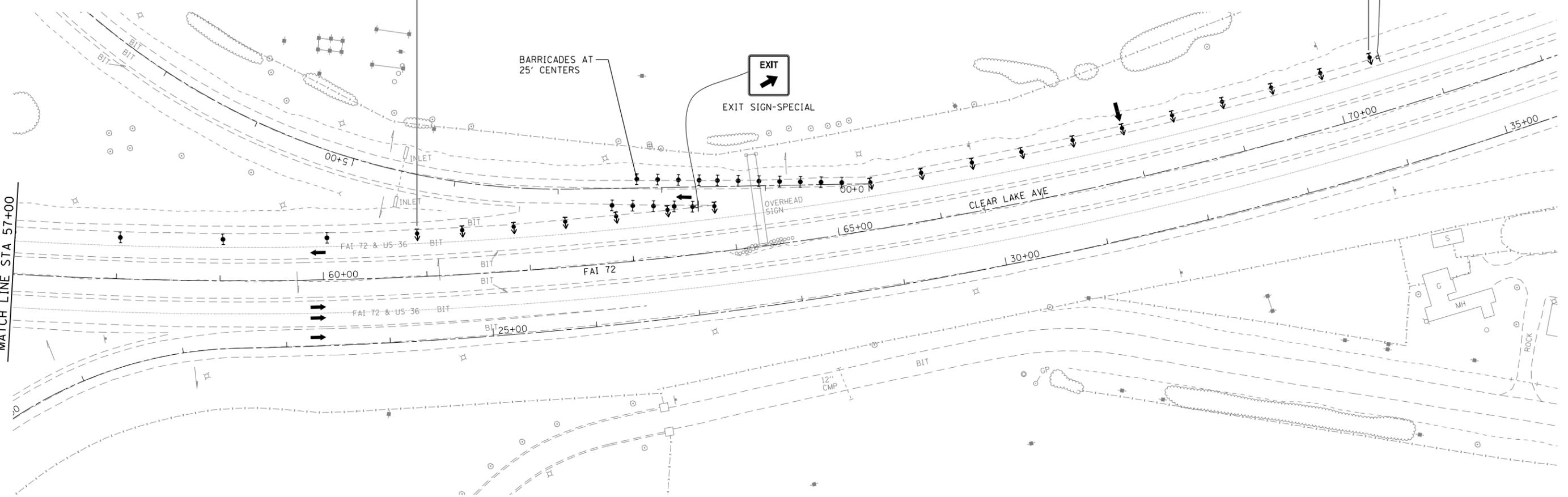
BARRICADES AT
25' CENTERS

EXIT
EXIT SIGN-SPECIAL

OVERHEAD
SIGN

CLEAR LAKE AVE

MATCH LINE STA 57+00



SYMBOLS

- ↑ Arrow board
- ▨ Work area
- ⊥ Sign
- ⏏ Type II barricade, drum, or vertical barricade
- ↗ Direction Indicator barricade with steady burn monodirectional light
- ⌌ Type III barricade
- Drum (see plans for spacing)
- ==== Temporary concrete barrier
- ◁ Monodirectional barrier wall/guardrail marker
- ▩ Impact attenuator
- ① Temporary Pavement Marking - Line 5" Solid White
- ② Temporary Pavement Marking - Line 5" Solid Yellow



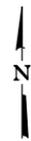
JOB = 2304.7	DESIGNED - NAK	REVISED -
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PLOT SCALE = 100.0000' / in.	CHECKED - NAK	REVISED -
PLOT DATE = 12/13/2018	DATE - 6/21/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PRE - STAGE 1 MAINTENANCE OF TRAFFIC

SCALE: SHEET NO. OF SHEETS STA. TO STA.

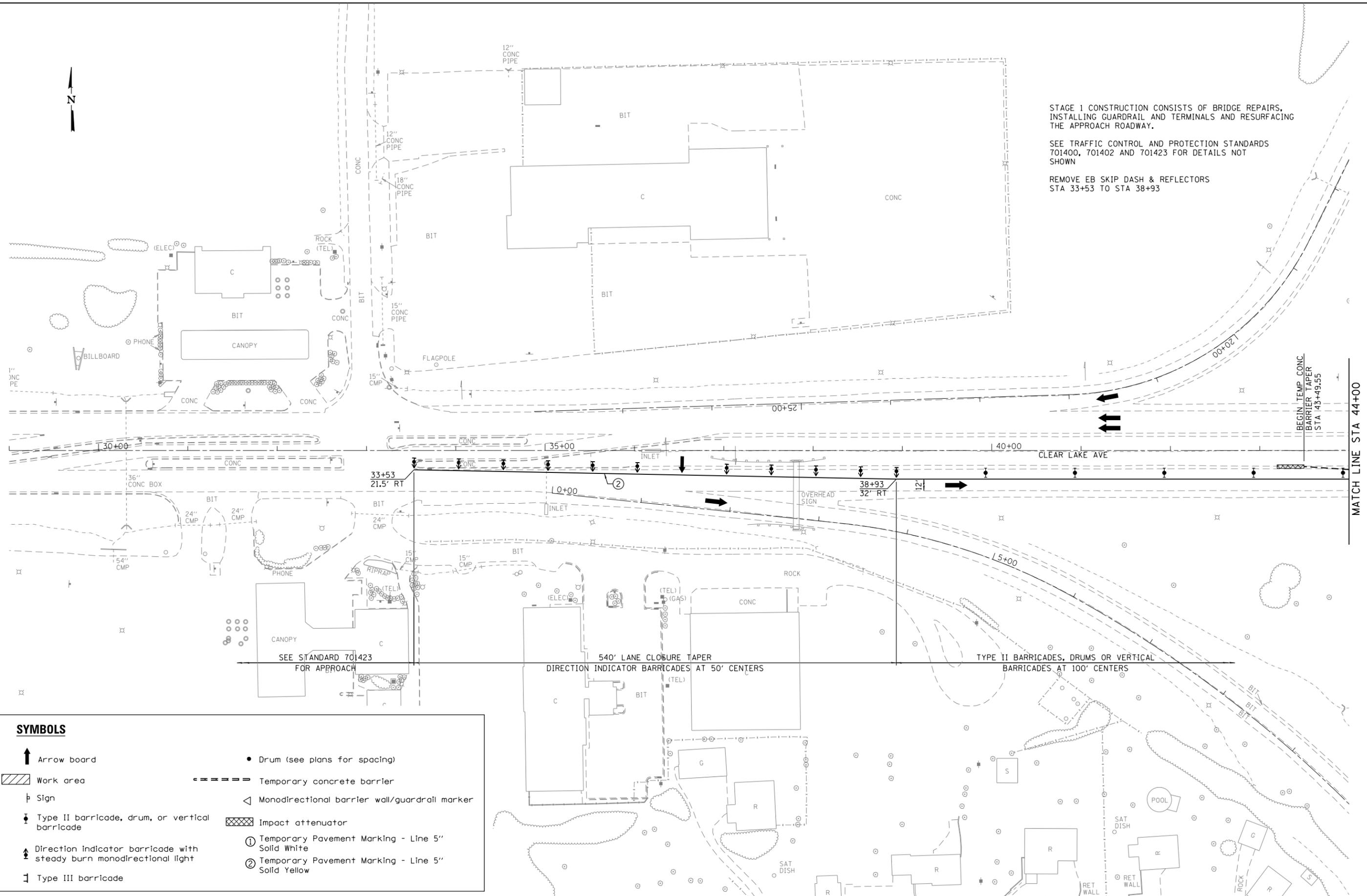
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(84-2) & (84-3) BRR	SANGAMON	98	32
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 72J97	



STAGE 1 CONSTRUCTION CONSISTS OF BRIDGE REPAIRS, INSTALLING GUARDRAIL AND TERMINALS AND RESURFACING THE APPROACH ROADWAY.

SEE TRAFFIC CONTROL AND PROTECTION STANDARDS 701400, 701402 AND 701423 FOR DETAILS NOT SHOWN

REMOVE EB SKIP DASH & REFLECTORS STA 33+53 TO STA 38+93



SYMBOLS

- ↑ Arrow board
- ▨ Work area
- † Sign
- ⏏ Type II barricade, drum, or vertical barricade
- ↗ Direction Indicator barricade with steady burn monodirectional light
- ⌌ Type III barricade
- Drum (see plans for spacing)
- Temporary concrete barrier
- ◁ Monodirectional barrier wall/guardrail marker
- ▩ Impact attenuator
- ① Temporary Pavement Marking - Line 5" Solid White
- ② Temporary Pavement Marking - Line 5" Solid Yellow

SEE STANDARD 701423 FOR APPROACH

540' LANE CLOSURE TAPER
DIRECTION INDICATOR BARRICADES AT 50' CENTERS

TYPE II BARRICADES, DRUMS OR VERTICAL BARRICADES AT 100' CENTERS



JOB = 2304.7
 FILE NAME = d672H44-sht-stage1.dgn
 PLOT SCALE = 100.0000' / in.
 PLOT DATE = 12/13/2018

DESIGNED - NAK
 DRAWN - SJS
 CHECKED - NAK
 DATE - 6/21/2016

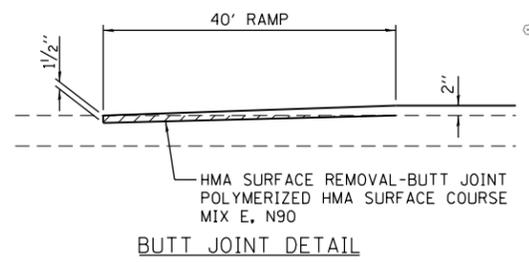
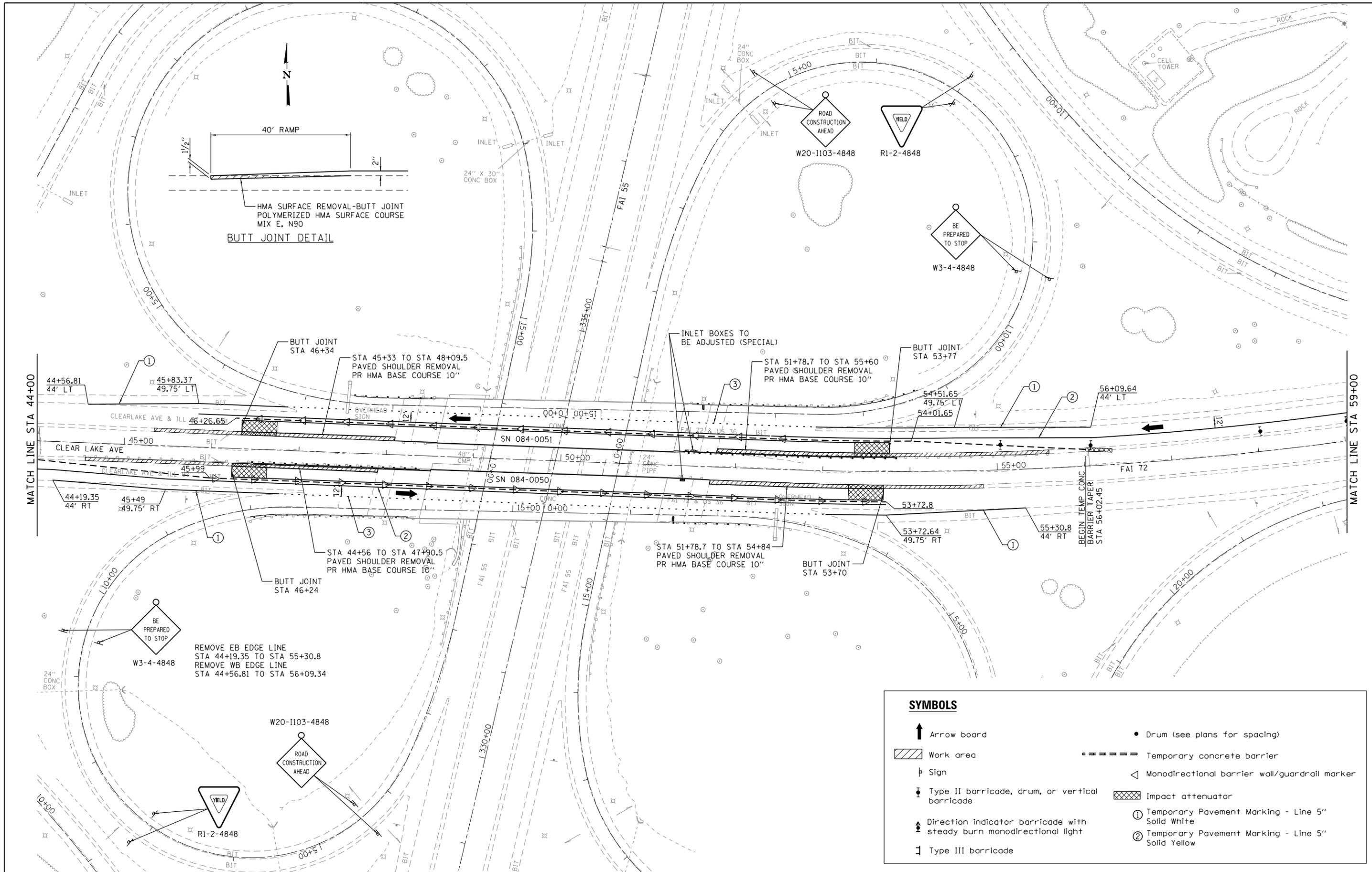
REVISED -
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 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**STAGE 1 MAINTENANCE OF TRAFFIC
 S.N. 084-0050 & 084-0051**

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(84-2) & (84-3) BRR	SANGAMON	98	33
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 72J97	



SYMBOLS	
	Arrow board
	Work area
	Sign
	Type II barricade, drum, or vertical barricade
	Direction indicator barricade with steady burn monodirectional light
	Type III barricade
	Drum (see plans for spacing)
	Temporary concrete barrier
	Monodirectional barrier wall/guardrail marker
	Impact attenuator
	① Temporary Pavement Marking - Line 5' Solid White
	② Temporary Pavement Marking - Line 5' Solid Yellow

CEC Cummins Engineering Corporation
Civil and Structural Engineering

JOB = 2304.7
FILE NAME = d672H44-sht-stage1.dgn
PLOT SCALE = 100.0000' / in.
PLOT DATE = 12/13/2018

DESIGNED - NAK
DRAWN - SJS
CHECKED - NAK
DATE - 6/21/2016

REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGE 1 MAINTENANCE OF TRAFFIC
S.N. 084-0050 & 084-0051**

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(84-2) & (84-3) BRR	SANGAMON	98	34
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 72J97	

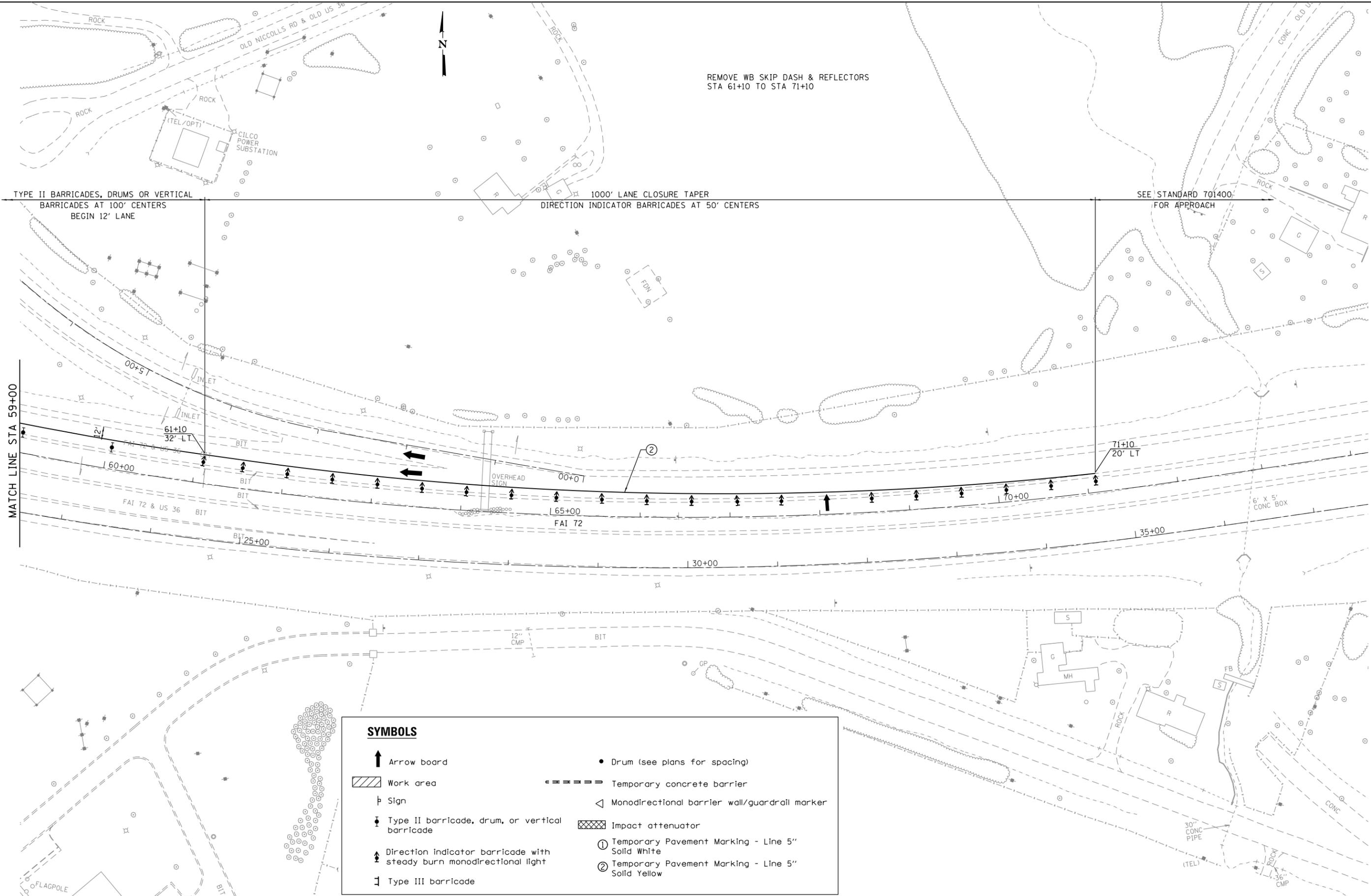
REMOVE WB SKIP DASH & REFLECTORS
STA 61+10 TO STA 71+10

TYPE II BARRICADES, DRUMS OR VERTICAL
BARRICADES AT 100' CENTERS
BEGIN 12' LANE

1000' LANE CLOSURE TAPER
DIRECTION INDICATOR BARRICADES AT 50' CENTERS

SEE STANDARD 701400
FOR APPROACH

MATCH LINE STA 59+00



SYMBOLS

↑ Arrow board	• Drum (see plans for spacing)
▨ Work area	--- Temporary concrete barrier
⊥ Sign	◁ Monodirectional barrier wall/guardrail marker
⊥ Type II barricade, drum, or vertical barricade	▩ Impact attenuator
↑ Direction indicator barricade with steady burn monodirectional light	① Temporary Pavement Marking - Line 5" Solid White
⊥ Type III barricade	② Temporary Pavement Marking - Line 5" Solid Yellow

CEC Cummins Engineering Corporation
Civil and Structural Engineering

JOB = 2304.7
FILE NAME = d672h44-sht-stage1.dgn
PLOT SCALE = 100.0000' / in.
PLOT DATE = 12/13/2018

DESIGNED - NAK
DRAWN - SJS
CHECKED - NAK
DATE - 6/21/2016

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REVISED -

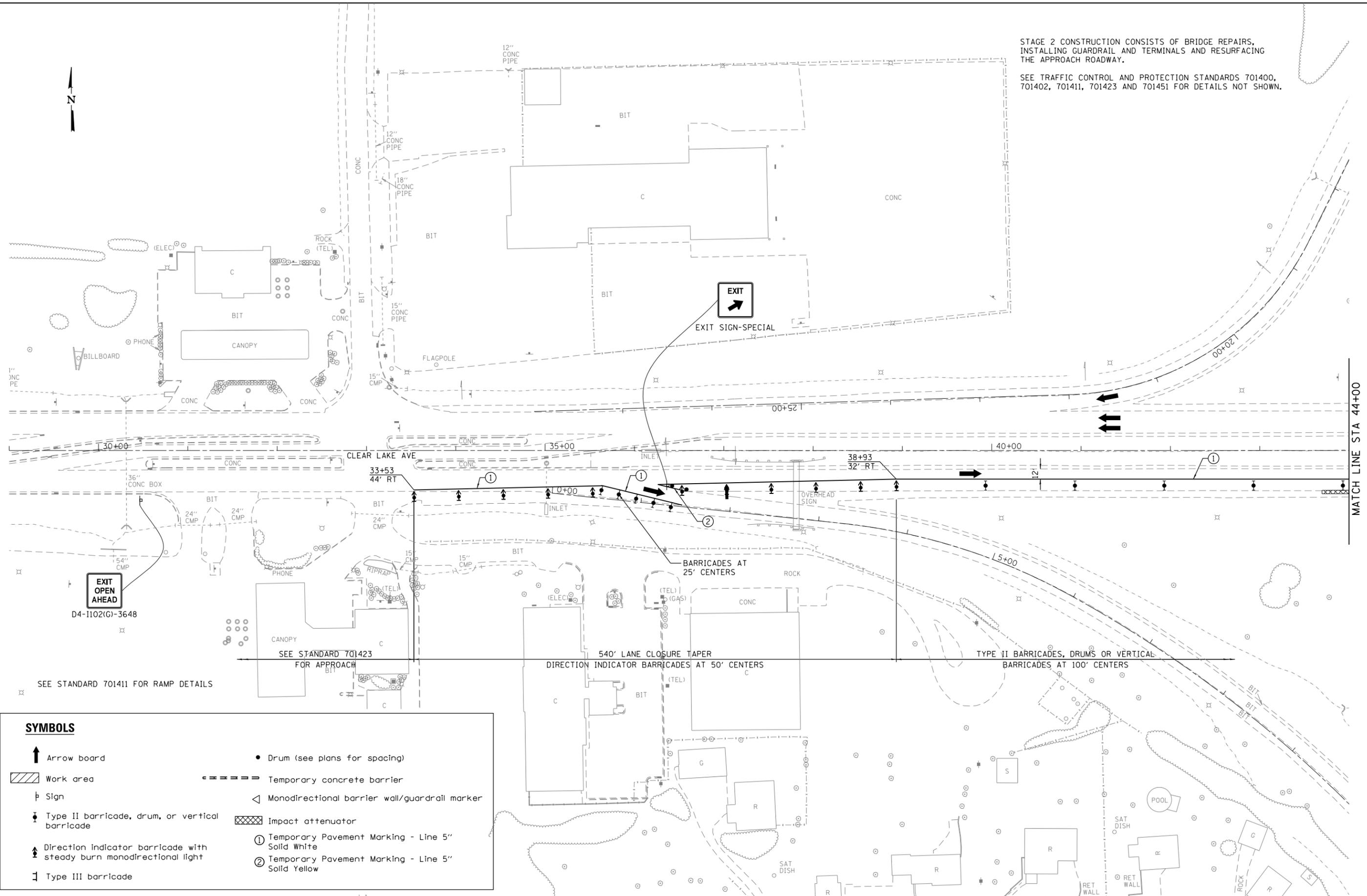
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE 1 MAINTENANCE OF TRAFFIC
S.N. 084-0050 & 084-0051

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(84-2) & (84-3) BRR	SANGAMON	98	35
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 72J97	

STAGE 2 CONSTRUCTION CONSISTS OF BRIDGE REPAIRS, INSTALLING GUARDRAIL AND TERMINALS AND RESURFACING THE APPROACH ROADWAY.
SEE TRAFFIC CONTROL AND PROTECTION STANDARDS 701400, 701402, 701411, 701423 AND 701451 FOR DETAILS NOT SHOWN.



MATCH LINE STA 44+00

SYMBOLS	
	Arrow board
	Work area
	Sign
	Type II barricade, drum, or vertical barricade
	Direction indicator barricade with steady burn monodirectional light
	Type III barricade
	Drum (see plans for spacing)
	Temporary concrete barrier
	Monodirectional barrier wall/guardrail marker
	Impact attenuator
	Temporary Pavement Marking - Line 5" Solid White
	Temporary Pavement Marking - Line 5" Solid Yellow

CEC Cummins Engineering Corporation
Civil and Structural Engineering

JOB = 2304.7
FILE NAME = d672H44-sht-stage2.dgn
PLOT SCALE = 100.0000' / in.
PLOT DATE = 12/13/2018

DESIGNED - NAK
DRAWN - SJS
CHECKED - NAK
DATE - 6/21/2016

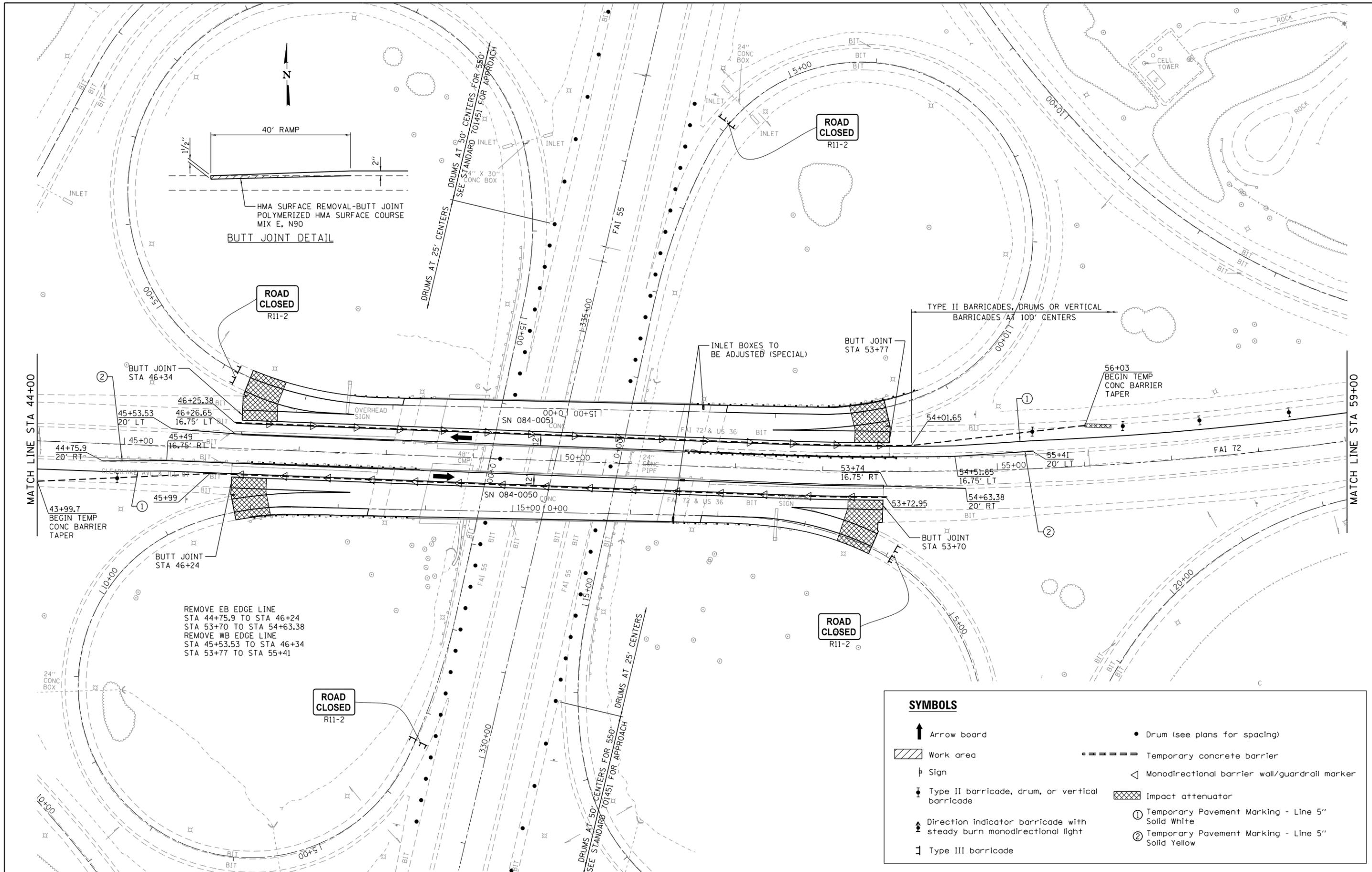
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REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE 2 MAINTENANCE OF TRAFFIC
S.N. 084-0050 & 084-0051

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(84-2) & (84-3) BRR	SANGAMON	98	36
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 72J97	



HMA SURFACE REMOVAL-BUTT JOINT
POLYMERIZED HMA SURFACE COURSE
MIX E, N90

BUTT JOINT DETAIL

ROAD CLOSED
R11-2

ROAD CLOSED
R11-2

ROAD CLOSED
R11-2

REMOVE EB EDGE LINE
STA 44+75.9 TO STA 46+24
STA 53+70 TO STA 54+63.38
REMOVE WB EDGE LINE
STA 45+53.53 TO STA 46+34
STA 53+77 TO STA 55+41

ROAD CLOSED
R11-2

SYMBOLS

- ↑ Arrow board
- ▨ Work area
- ⊥ Sign
- ⏏ Type II barricade, drum, or vertical barricade
- ↔ Direction indicator barricade with steady burn monodirectional light
- ⌌ Type III barricade
- Drum (see plans for spacing)
- Temporary concrete barrier
- ◁ Monodirectional barrier wall/guardrail marker
- ▩ Impact attenuator
- ① Temporary Pavement Marking - Line 5' Solid White
- ② Temporary Pavement Marking - Line 5' Solid Yellow

CEC Cummins
Engineering
Corporation
Civil and Structural Engineering

JOB = 2304.7
FILE NAME = d672h44-sht-stage2.dgn
PLOT SCALE = 100.0000' / in.
PLOT DATE = 12/13/2018

DESIGNED - NAK
DRAWN - SJS
CHECKED - NAK
DATE - 6/21/2016

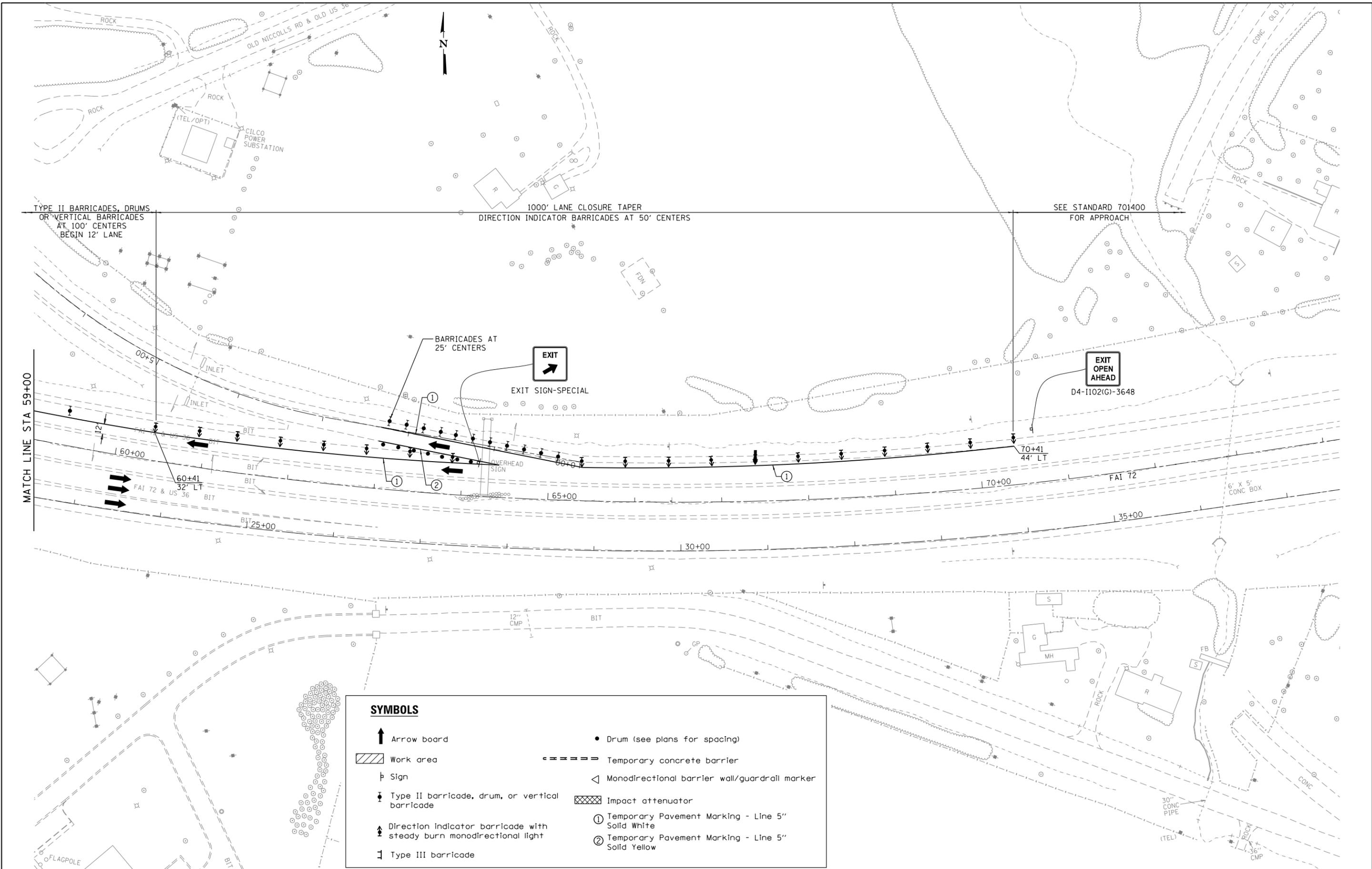
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REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGE 2 MAINTENANCE OF TRAFFIC
S.N. 084-0050 & 084-0051**

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(84-2) & (84-3) BRR	SANGAMON	98	37
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 72J97	



SYMBOLS	
	Arrow board
	Work area
	Sign
	Type II barricade, drum, or vertical barricade
	Direction indicator barricade with steady burn monodirectional light
	Type III barricade
	Drum (see plans for spacing)
	Temporary concrete barrier
	Monodirectional barrier wall/guardrail marker
	Impact attenuator
	① Temporary Pavement Marking - Line 5" Solid White
	② Temporary Pavement Marking - Line 5" Solid Yellow

CEC Cummins Engineering Corporation
Civil and Structural Engineering

JOB = 2304.7
FILE NAME = d672H44-sht-stage2.dgn
PLOT SCALE = 100.0000' / in.
PLOT DATE = 12/13/2018

DESIGNED - NAK
DRAWN - SJS
CHECKED - NAK
DATE - 6/21/2016

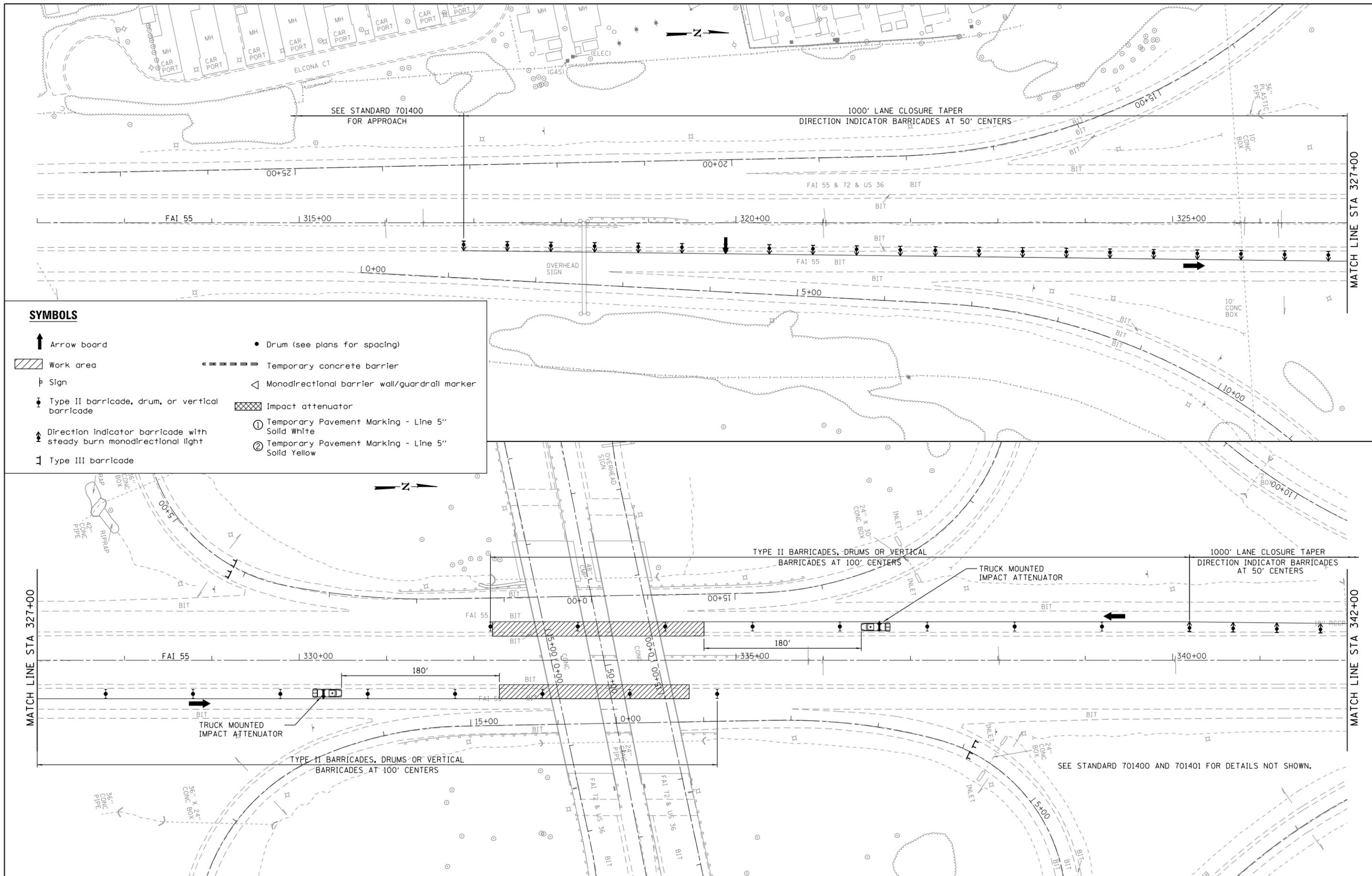
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REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGE 2 MAINTENANCE OF TRAFFIC
S.N. 084-0050 & 084-0051**

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(84-2) & (84-3) BRR	SANGAMON	98	38
CONTRACT NO. 72J97				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



SYMBOLS

- ↑ Arrow board
- ▨ Work area
- ⊥ Sign
- ⏏ Type II barricade, drum, or vertical barricade
- ➡ Direction indicator barricade with steady burn monodirectional light
- ⌌ Type III barricade
- Drum (see plans for spacing)
- Temporary concrete barrier
- ◁ Monodirectional barrier wall/guardrail marker
- ▩ Impact attenuator
- ① Temporary Pavement Marking - Line 5" Solid White
- ② Temporary Pavement Marking - Line 5" Solid Yellow



JOB = 2304.7
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 PLOT SCALE = 100.0000' / in.
 PLOT DATE = 12/13/2018

DESIGNED - NAK
 DRAWN - SJS
 CHECKED - NAK
 DATE - 6/21/2016

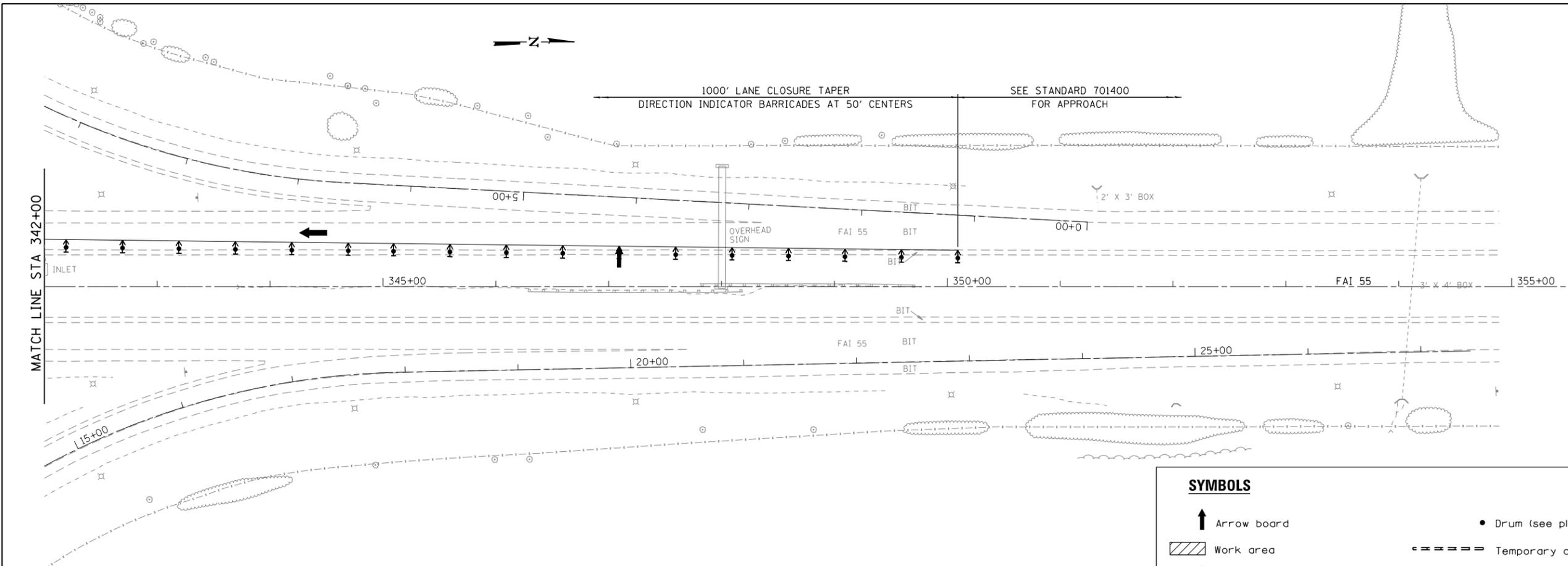
REVISED -
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 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**STAGE 1 BRIDGE PAINTING MAINTENANCE OF TRAFFIC
 S.N. 084-0050 & 084-0051**

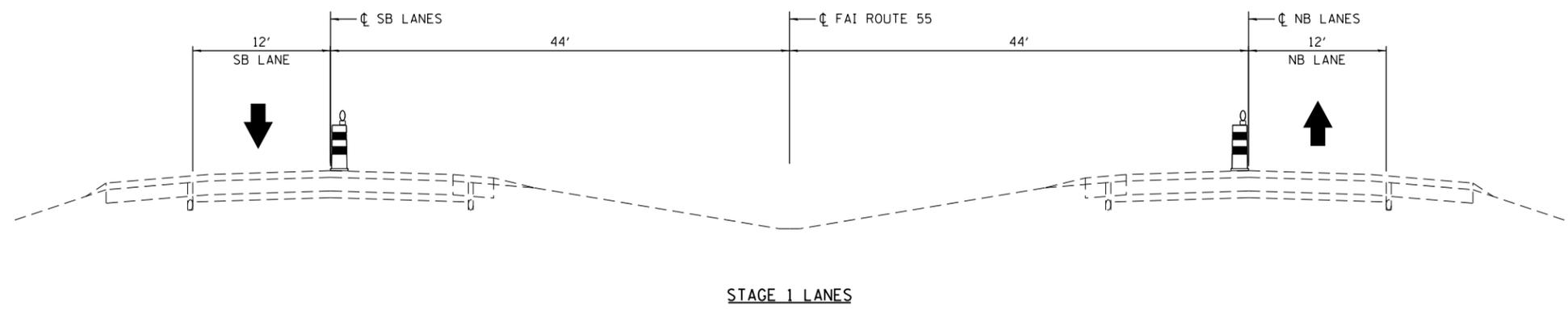
SCALE: SHEET NO. OF SHEETS STA. TO STA.

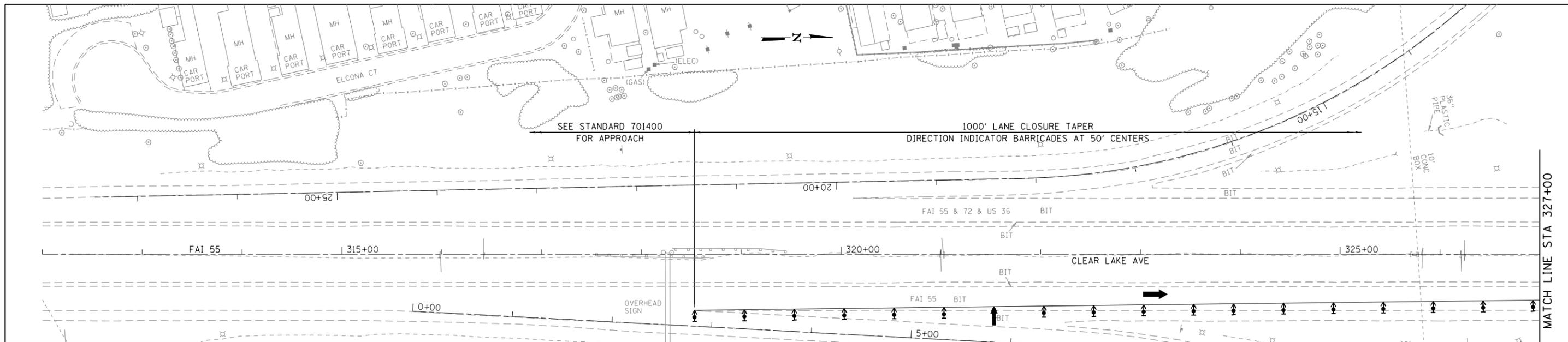
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(84-2) & (84-3) BRR	SANGAMON	98	39
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 72J97	



SYMBOLS

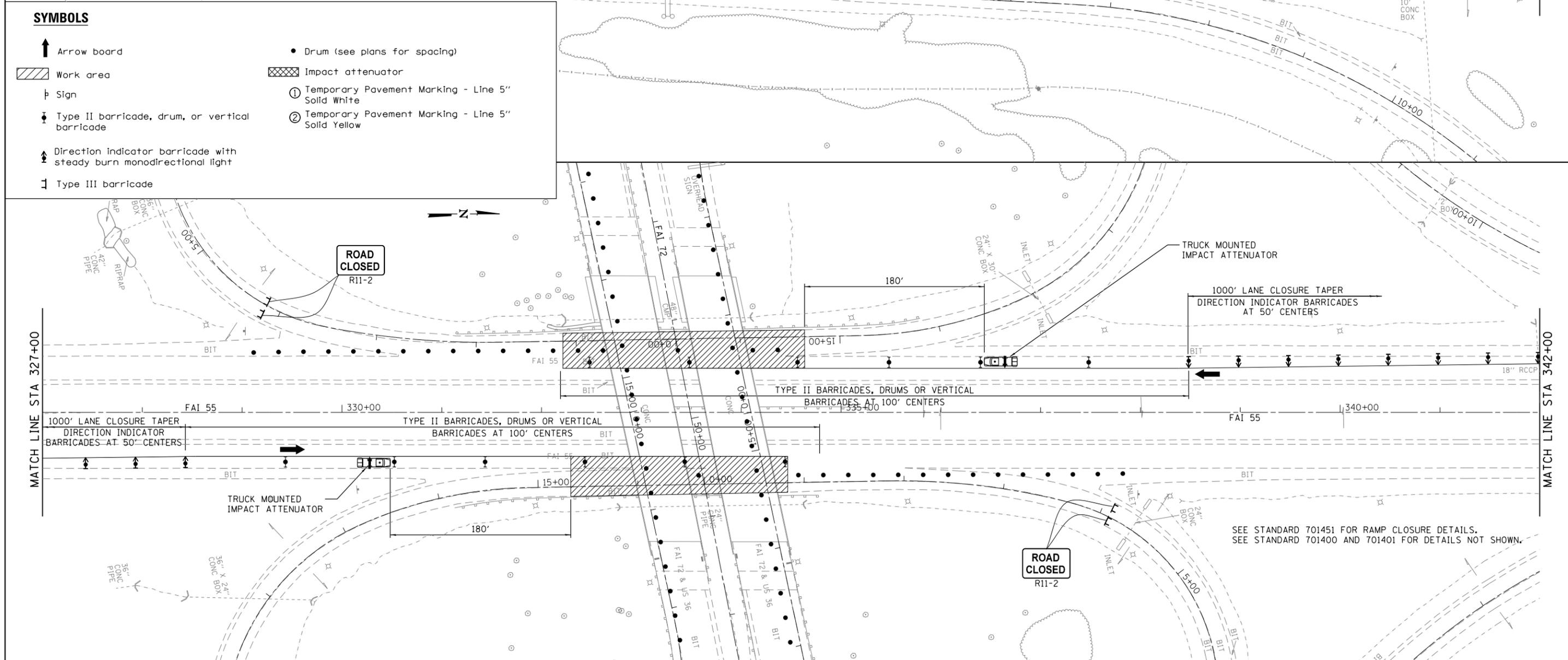
	Arrow board		Drum (see plans for spacing)
	Work area		Temporary concrete barrier
	Sign		Monodirectional barrier wall/guardrail marker
	Type II barricade, drum, or vertical barricade		Impact attenuator
	Direction indicator barricade with steady burn monodirectional light		Temporary Pavement Marking - Line 5' Solid White
	Type III barricade		Temporary Pavement Marking - Line 5' Solid Yellow





SYMBOLS

- ↑ Arrow board
- ▨ Work area
- ⊥ Sign
- ⏏ Type II barricade, drum, or vertical barricade
- ↔ Direction indicator barricade with steady burn monodirectional light
- ⌌ Type III barricade
- Drum (see plans for spacing)
- ▣ Impact attenuator
- ① Temporary Pavement Marking - Line 5" Solid White
- ② Temporary Pavement Marking - Line 5" Solid Yellow



JOB = 2304.7
 FILE NAME = d672H44-sht-stage1.bpdgn
 PLOT SCALE = 100.0000' / in.
 PLOT DATE = 12/13/2018

DESIGNED - NAK
 DRAWN - SJS
 CHECKED - NAK
 DATE - 6/21/2016

REVISED -
 REVISED -
 REVISED -
 REVISED -

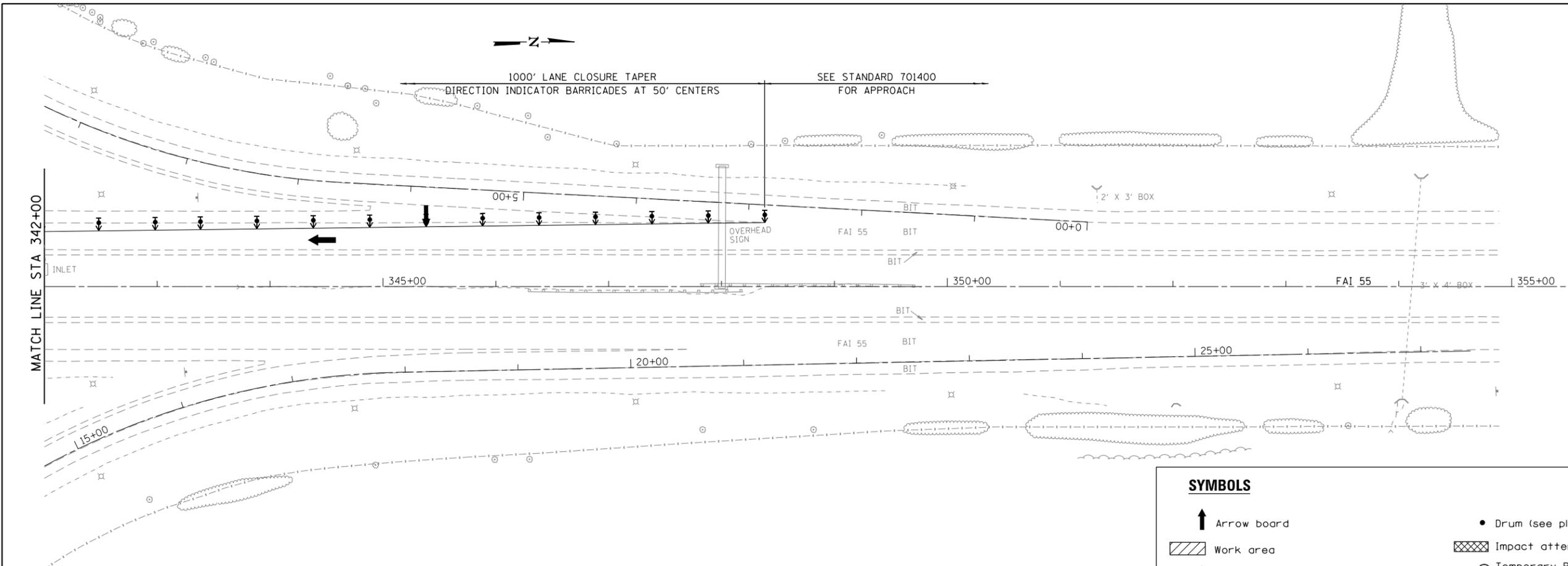
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**STAGE 2 BRIDGE PAINTING MAINTENANCE OF TRAFFIC
 S.N. 084-0050 & 084-0051**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(84-2) & (84-3) BRR	SANGAMON	98	41
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	

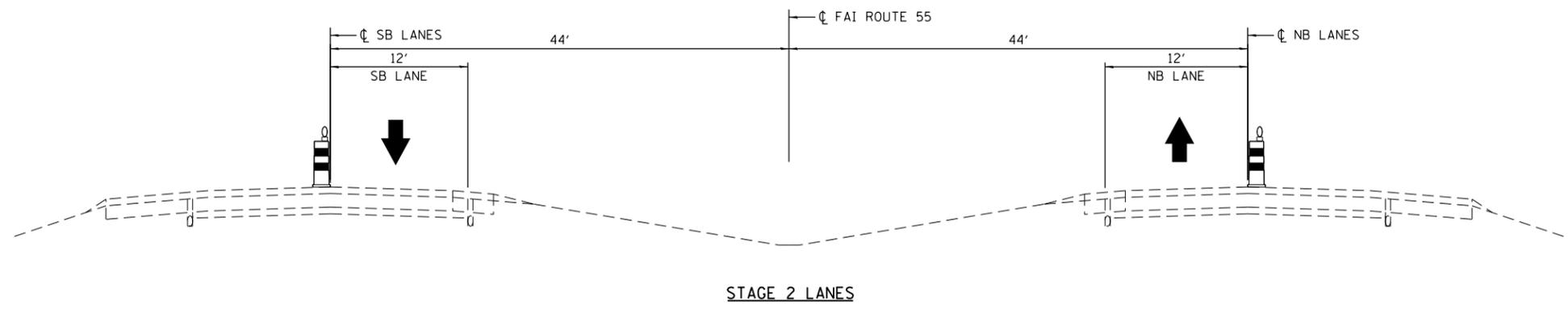
SCALE: SHEET NO. OF SHEETS STA. TO STA.

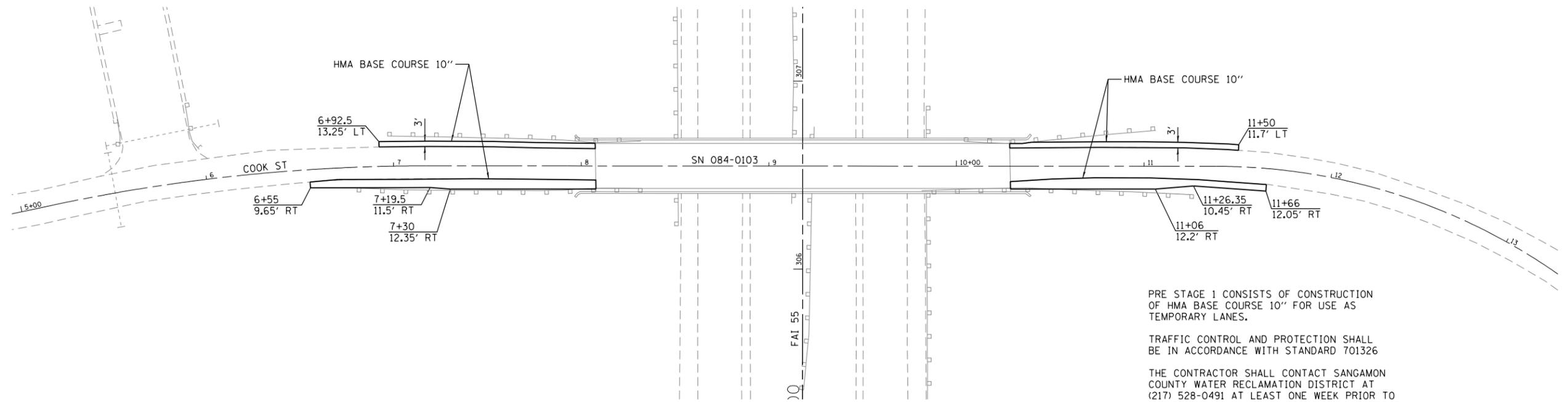
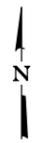
SEE STANDARD 701451 FOR RAMP CLOSURE DETAILS.
 SEE STANDARD 701400 AND 701401 FOR DETAILS NOT SHOWN.



SYMBOLS

	Arrow board		Drum (see plans for spacing)
	Work area		Impact attenuator
	Sign		Temporary Pavement Marking - Line 5' Solid White
	Type II barricade, drum, or vertical barricade		Temporary Pavement Marking - Line 5' Solid Yellow
	Direction indicator barricade with steady burn monodirectional light		
	Type III barricade		



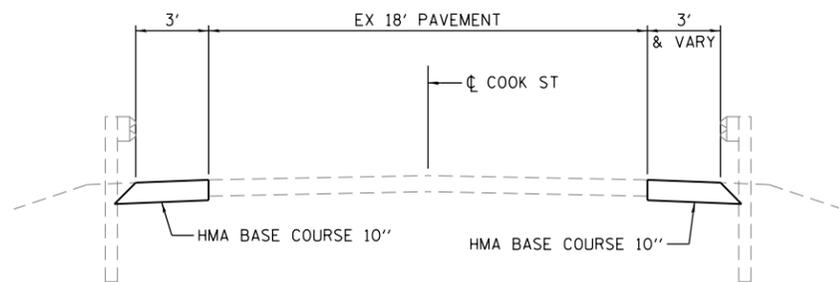


PRE STAGE 1 CONSISTS OF CONSTRUCTION OF HMA BASE COURSE 10" FOR USE AS TEMPORARY LANES.

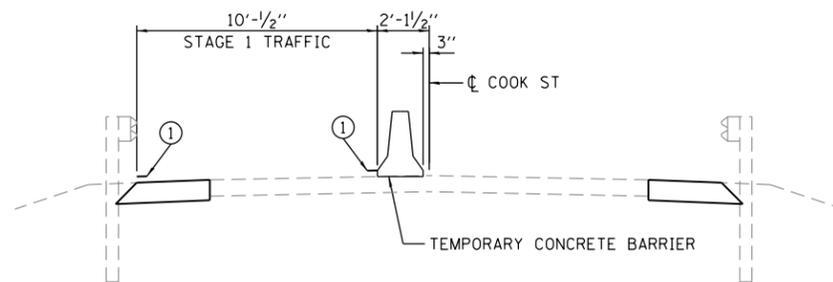
TRAFFIC CONTROL AND PROTECTION SHALL BE IN ACCORDANCE WITH STANDARD 701326

THE CONTRACTOR SHALL CONTACT SANGAMON COUNTY WATER RECLAMATION DISTRICT AT (217) 528-0491 AT LEAST ONE WEEK PRIOR TO IMPLEMENTING ANY CLOSURES ON COOK STREET.

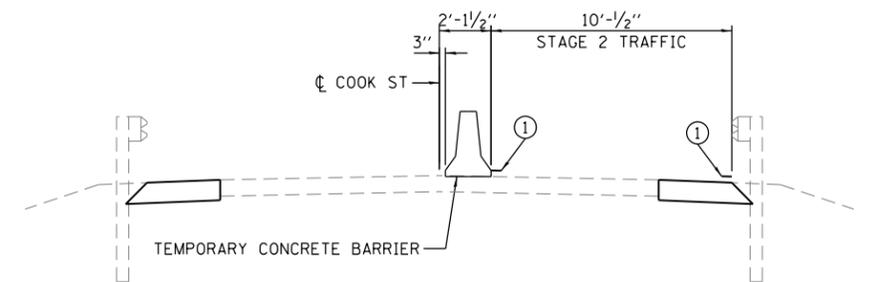
PRE STAGE 1



PRE STAGE 1

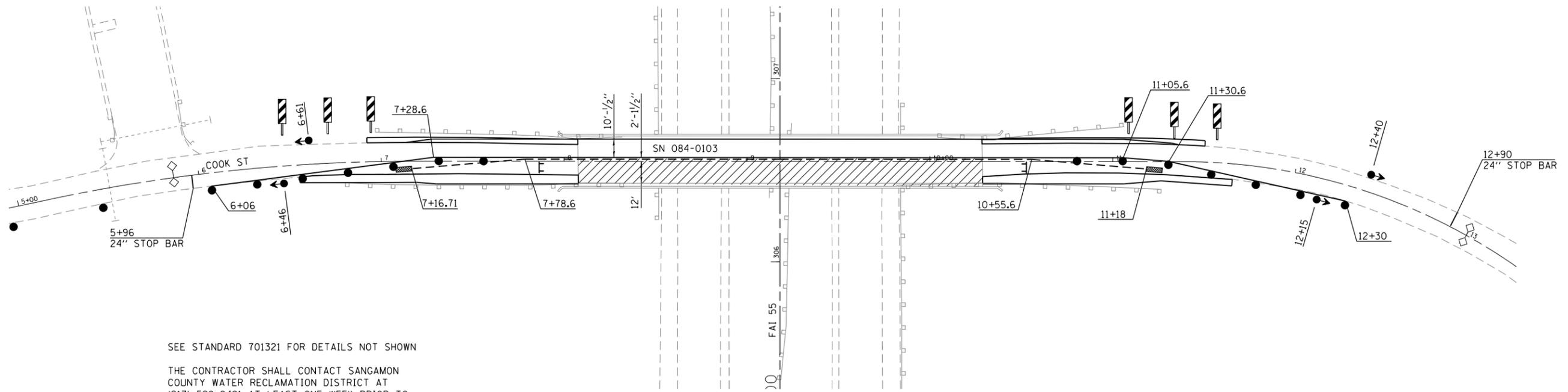


STAGE 1



STAGE 2

① TEMPORARY PAVEMENT MARKING LINE 5" (SOLID WHITE)



SEE STANDARD 701321 FOR DETAILS NOT SHOWN

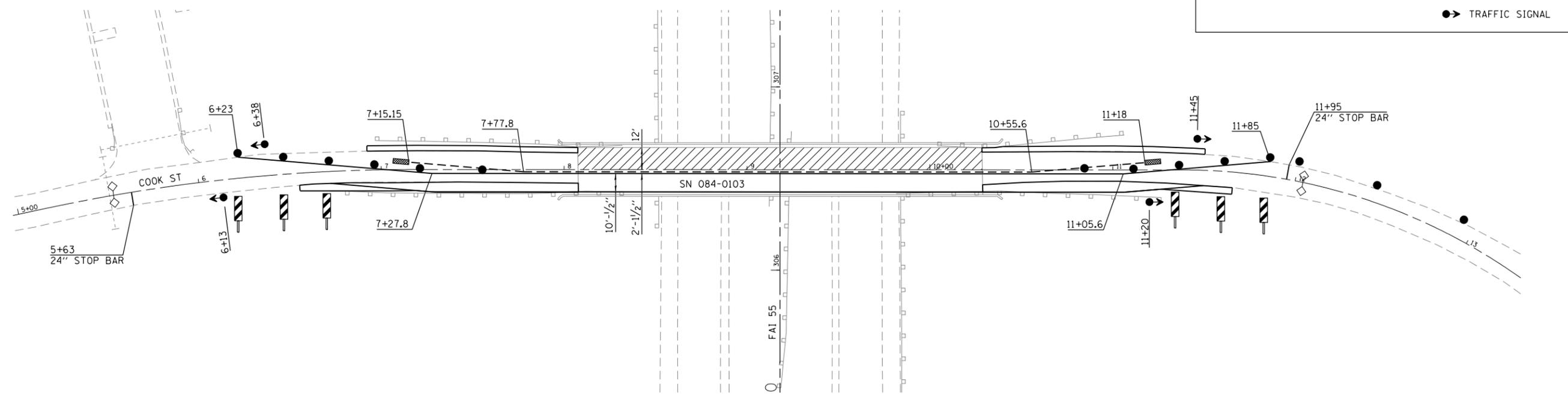
THE CONTRACTOR SHALL CONTACT SANGAMON COUNTY WATER RECLAMATION DISTRICT AT (217) 528-0491 AT LEAST ONE WEEK PRIOR TO IMPLEMENTING ANY CLOSURES ALONG COOK STREET.

THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 72 HOURS IN ADVANCE OF ACTIVATING THE TEMPORARY BRIDGE TRAFFIC SIGNALS. IDOT DISTRICT 6 OPERATIONS TRAFFIC SIGNAL SECTION SHALL BE CONTRACT AT (217) 524-9161 FOR CONTROLLER PROGRAMMING AND TIMING APPROVAL.

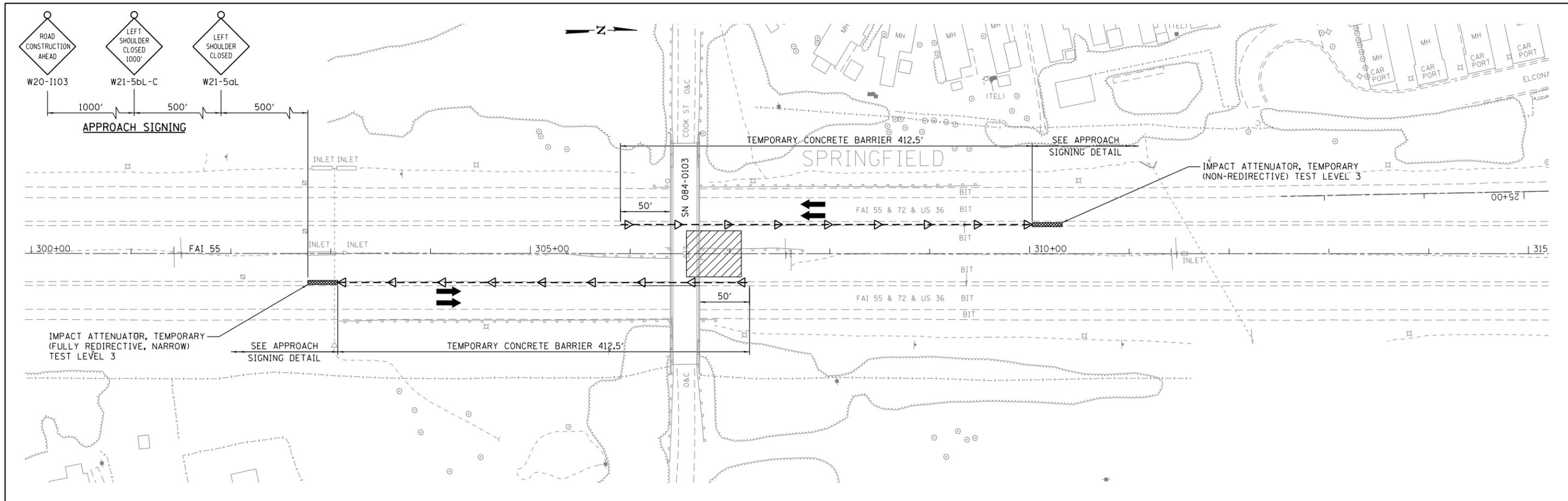
STAGE 1

LEGEND

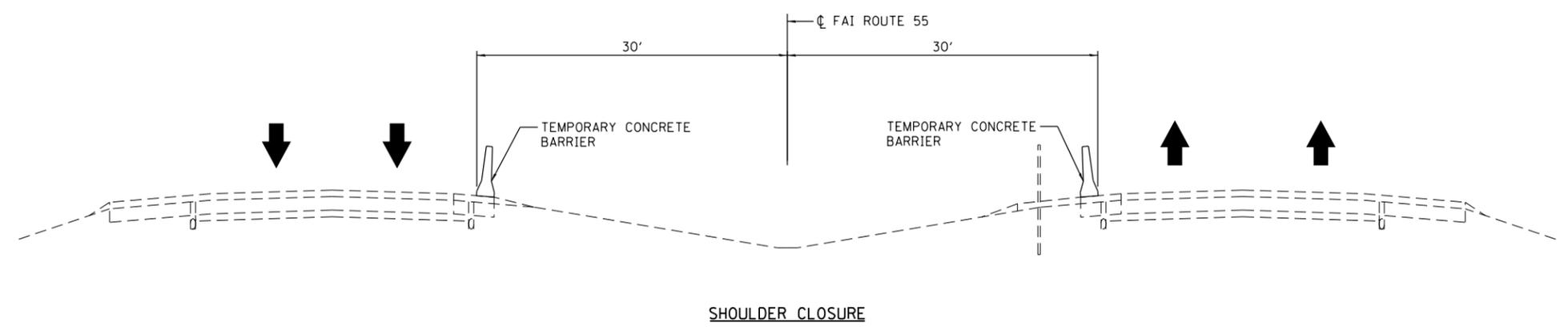
	WORK AREA		DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT (TAPERS ONLY)
	IMPACT ATTENUATOR		DOUBLE VERTICAL PANEL
	TEMPORARY CONCRETE BARRIER		CRYSTAL, BI-DIRECTIONAL BARRIER WALL/GUARDRAIL MARKER
	TYPE III BARRICADE		TRAFFIC SIGNAL



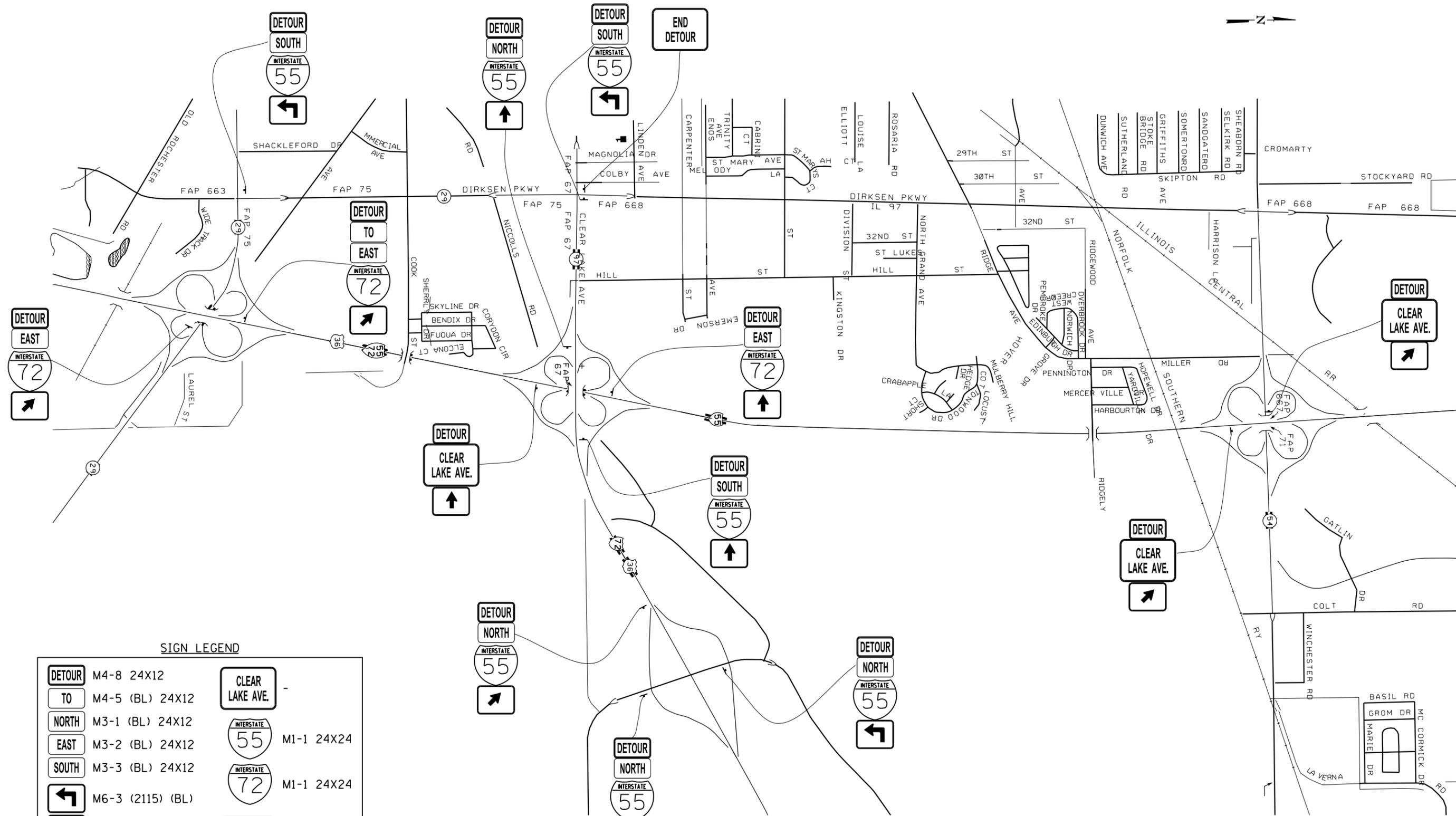
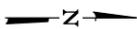
STAGE 2



SYMBOLS	
	Work area
	Sign
	Temporary concrete barrier
	Monodirectional barrier wall/guardrail marker
	Impact attenuator



 Cummins Engineering Corporation <small>Civil and Structural Engineering</small>	JOB = 2304.7 FILE NAME = d672H44-sht-shoulder.DGN PLOT SCALE = 100.0000 ' / in. PLOT DATE = 12/11/2018	DESIGNED - NAK DRAWN - SJS CHECKED - NAK DATE - 6/21/2016	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAINTENANCE OF TRAFFIC I-55 SHOULDER CLOSURE	F.A.I. RTE. 55	SECTION (84-2) & (84-3) BRR	COUNTY SANGAMON	TOTAL SHEETS 98	SHEET NO. 45
	SCALE:	SHEET NO. OF SHEETS	STA. TO STA.			FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	CONTRACT NO. 72J97		



SIGN LEGEND

DETOUR	M4-8 24X12	CLEAR LAKE AVE.	-
TO	M4-5 (BL) 24X12	INTERSTATE 55	M1-1 24X24
NORTH	M3-1 (BL) 24X12	INTERSTATE 72	M1-1 24X24
EAST	M3-2 (BL) 24X12	END DETOUR	M4-8a
SOUTH	M3-3 (BL) 24X12		
←	M6-3 (2115) (BL)		
↑	M6-2R (2115) (BL)		
↗	M5-1L (2115) (BL)		
←	M6-1R (2115) (BL)		



JOB = 2304.7
 FILE NAME = d672H44-sht-detour.dgn
 PLOT SCALE = 1500.0000' / in.
 PLOT DATE = 12/13/2018

DESIGNED - NAK
 DRAWN - SJS
 CHECKED - NAK
 DATE - 6/21/2016

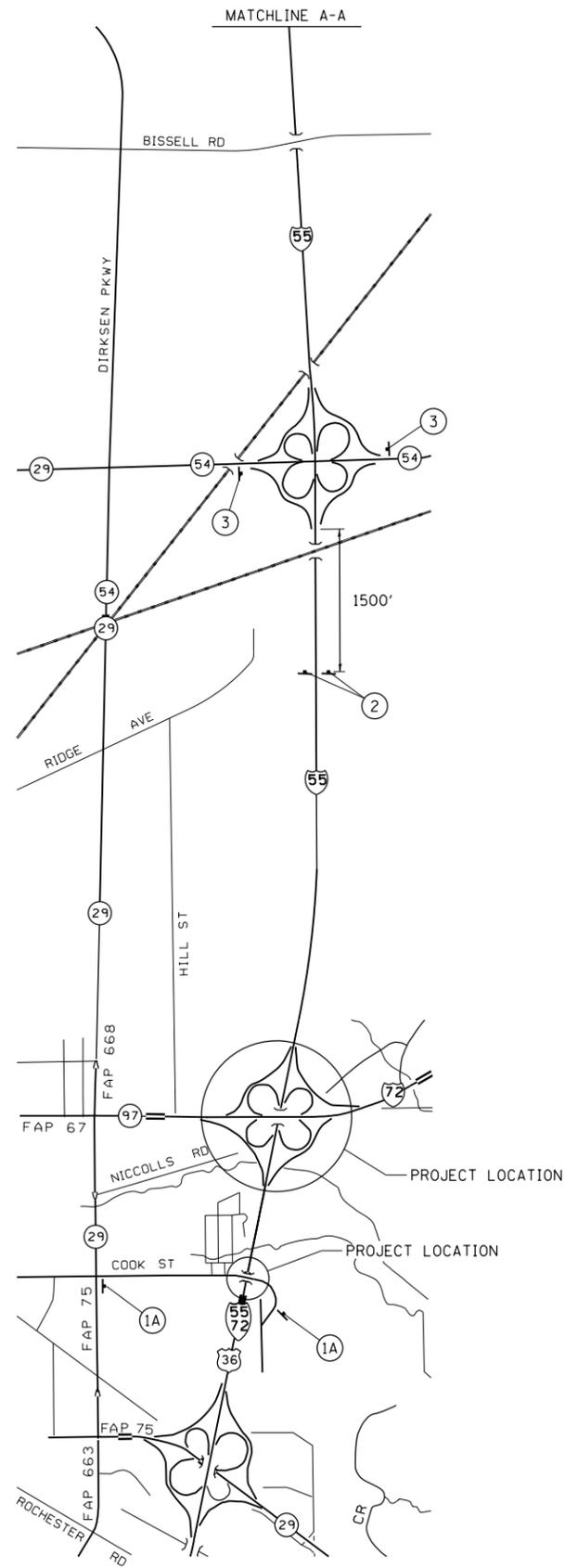
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

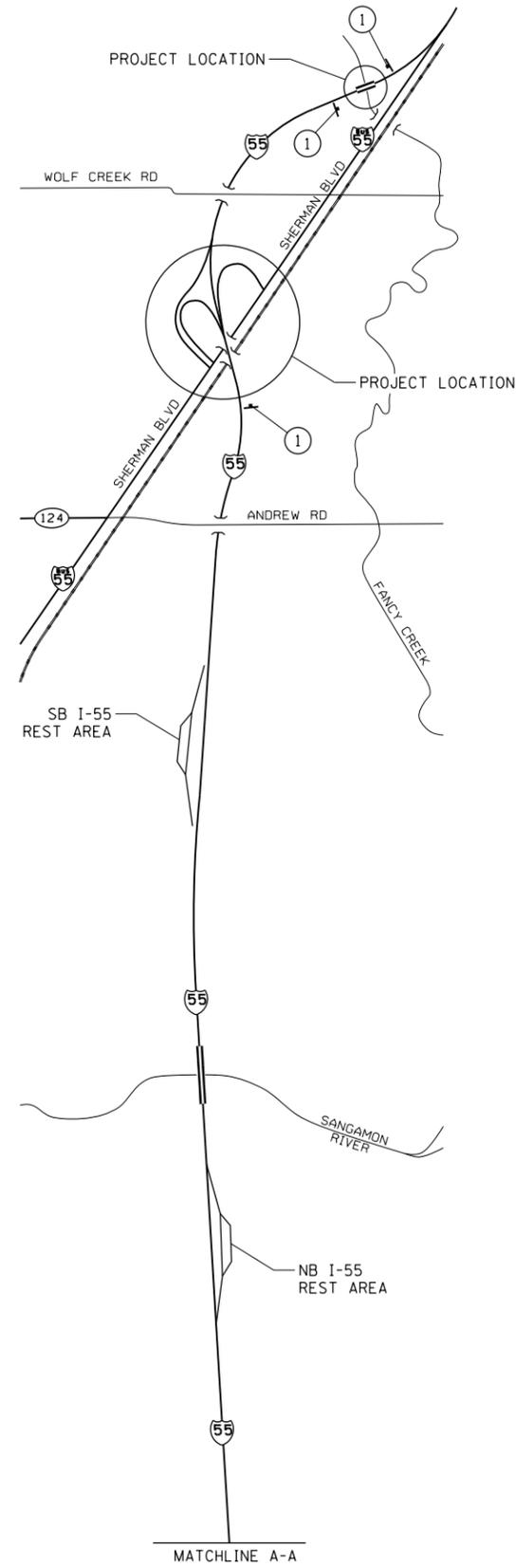
**DETOUR PLAN
 LOOP RAMPS CLOSED (S.N. 084-0050 & 084-0051)**

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(84-2) & (84-3) BRR	SANGAMON	98	46
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 72J97	

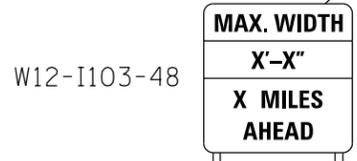


LOCATION MAP
NOT TO SCALE



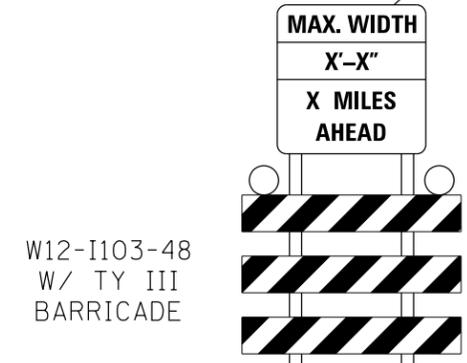
W12-I102-48

1



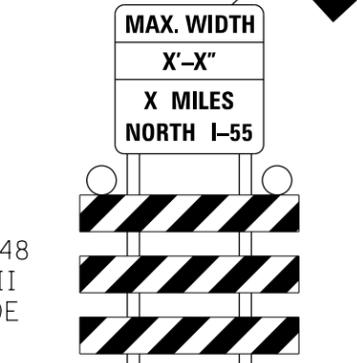
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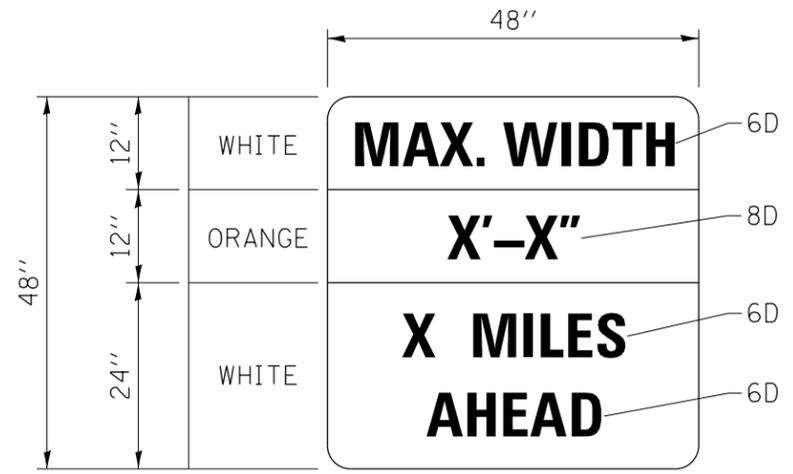
W12-I103-48
W/ TY III
BARRICADE

2



W12-I103-48
W/ TY III
BARRICADE

3



W12-I103-48

GENERAL NOTES

1. ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED AND MAINTAINED BY THE CONTRACTOR.
2. THE LOCATION OF TRAFFIC CONTROL DEVICES MAY BE ADJUSTED BY THE ENGINEER.
3. ALL TRAFFIC CONTROL DEVICES SHOWN ON THIS SHEET WILL BE PAID FOR AT THE CONTRACT LUMP SUM PRICE FOR WIDTH RESTRICTION SIGNING.
4. THE WIDTH SHOWN ON THE SIGN SHALL BE 18" LESS THAN THE ACTUAL WIDTH SHOWN ON THE PLANS.



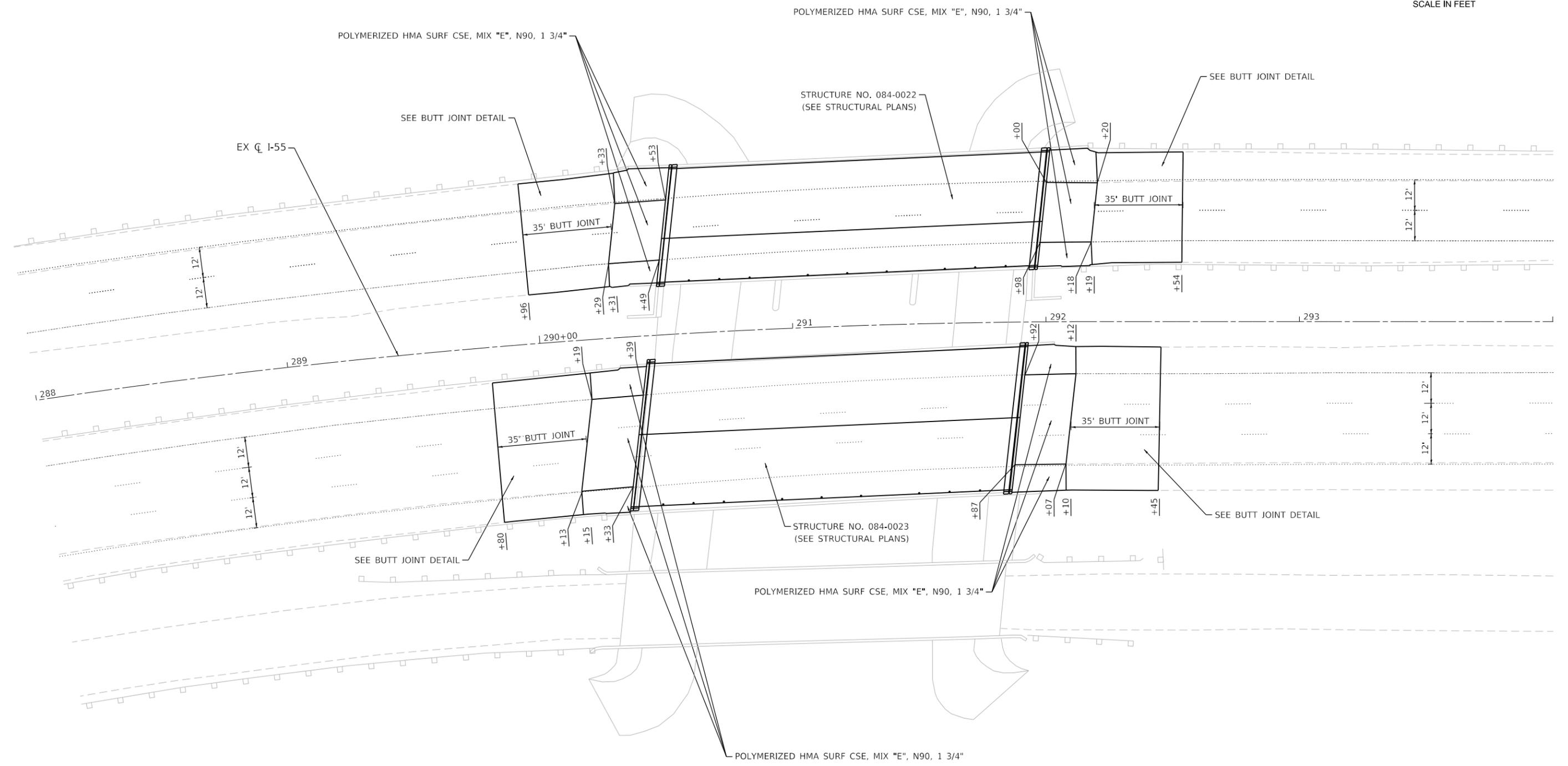
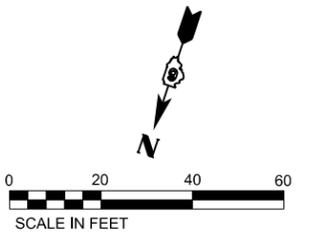
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PLOT SCALE = 60.0000' / in.	CHECKED - NAK	REVISED -
PLOT DATE = 12/18/2018	DATE - 6/21/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAXIMUM WIDTH SIGN DETAILS

SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(84-2) & (84-3) BRR	SANGAMON	98	47
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 72J97	

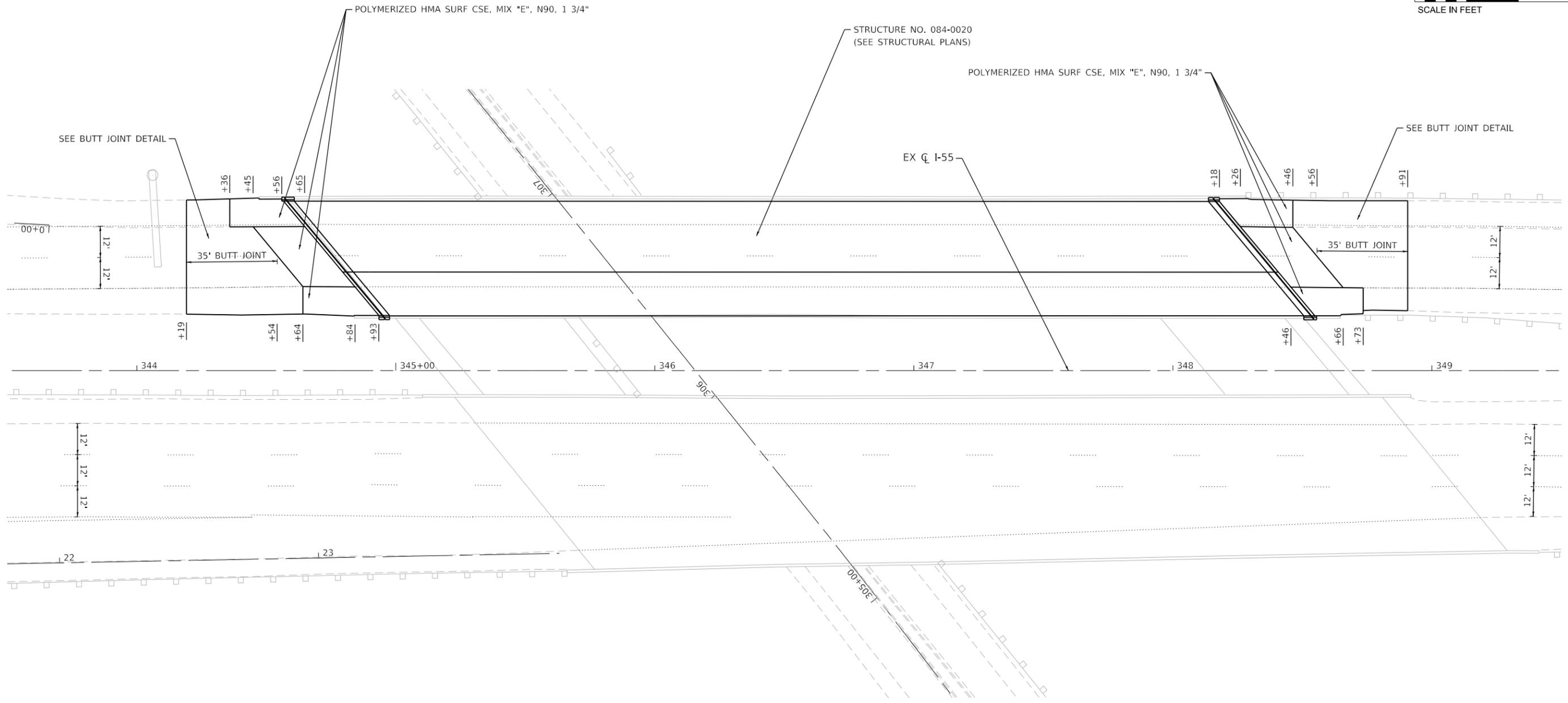
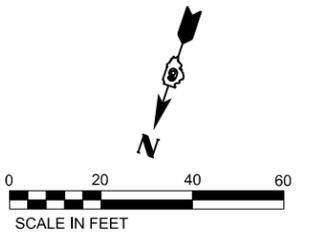


USER NAME = Lin	DESIGNED - RC	REVISED -
DRAWN - RC	REVISIONS -	
PLOT SCALE = 40,0000' / in.	CHECKED - FL	REVISIONS -
PLOT DATE = 12/11/2018	DATE - 12/2018	REVISIONS -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

I-55/I-72 STRUCTURE REPAIRS ROADWAY PLAN	
SCALE: 1"=20'	SHEET 1 OF 2 SHEETS
STA. 288+00.00	TO STA. 294+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(84-2) & (84-3) BRR	SANGAMON	98	48
CONTRACT NO. 72197				
ILLINOIS FED. AID PROJECT				



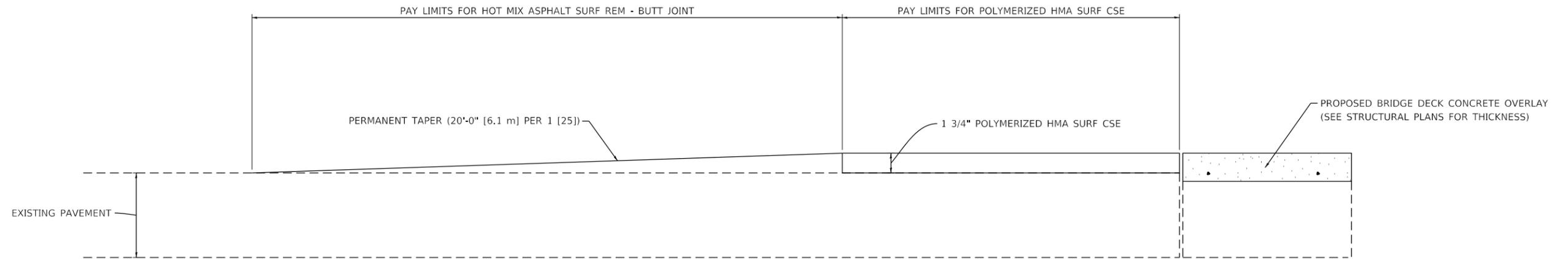
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DRAWN - RC	REVISIONS -	
PLOT SCALE = 40,0000 ' / in.	CHECKED - FL	REVISIONS -
PLOT DATE = 12/11/2018	DATE - 12/2018	REVISIONS -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-55/I-72 STRUCTURE REPAIRS
ROADWAY PLAN**

SCALE: 1"=20' SHEET 2 OF 2 SHEETS STA. 343+50.00 TO STA. 349+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(84-2) & (84-3) BRR	SANGAMON	98	49
			CONTRACT NO. 72197	
ILLINOIS FED. AID PROJECT				



BUTT JOINT DETAIL

GENERAL NOTES

1. THIS WORK SHALL BE DONE IN ACCORDANCE WITH ARTICLE 406.08 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
2. THE LENGTH OF BUTT JOINT IS BASED ON THE TAPER RATE TIMES CHANGE IN COLD MILLING DEPTH WITHIN THE BUTT JOINT PAY LIMITS, UNLESS OTHERWISE INDICATED.
3. INSTALLATION AND REMOVAL OF ANY TEMPORARY RAMPS NEEDED DURING STAGING ACTIVITIES IS INCLUDED IN THE COST OF HMA SURFACE REMOVAL - BUTT JOINT.

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



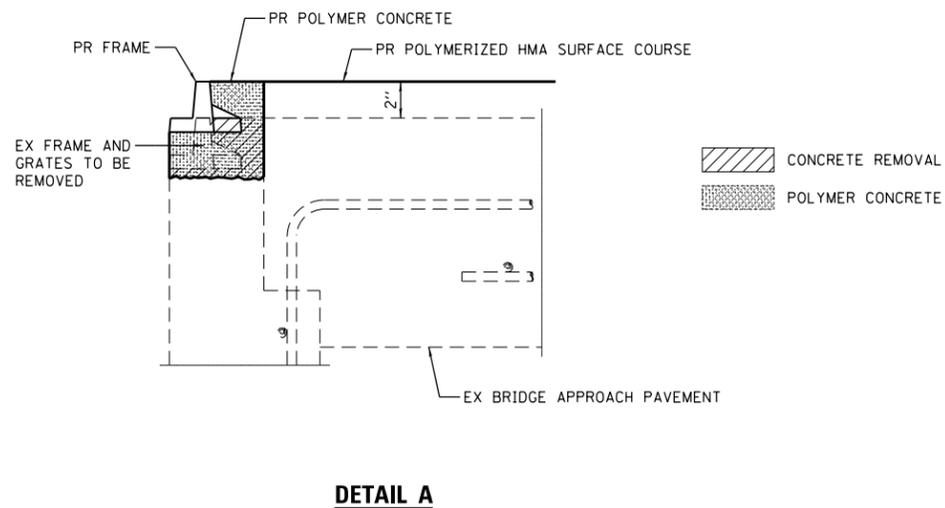
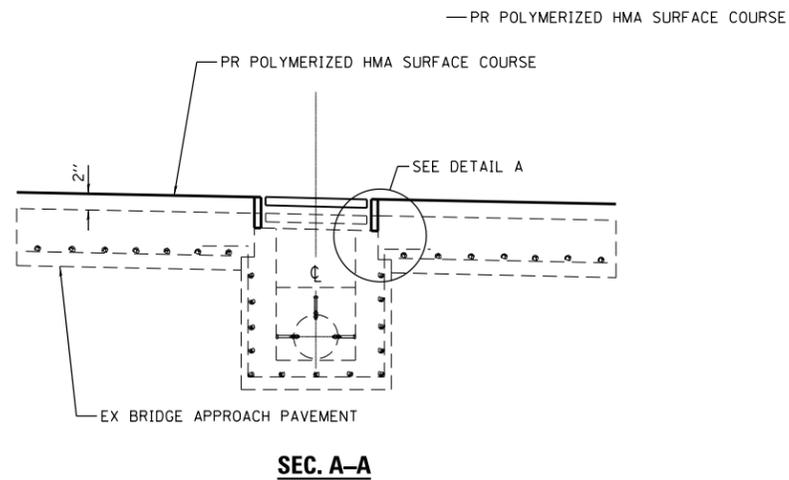
USER NAME = Lin	DESIGNED - RC	REVISED -
	DRAWN - RC	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - FL	REVISED -
PLOT DATE = 12/11/2018	DATE - 12/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-55/I-72 STRUCTURE REPAIRS
BUTT JOINT DETAIL**

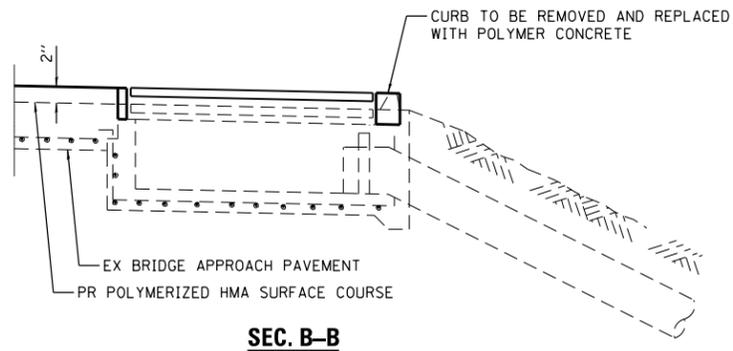
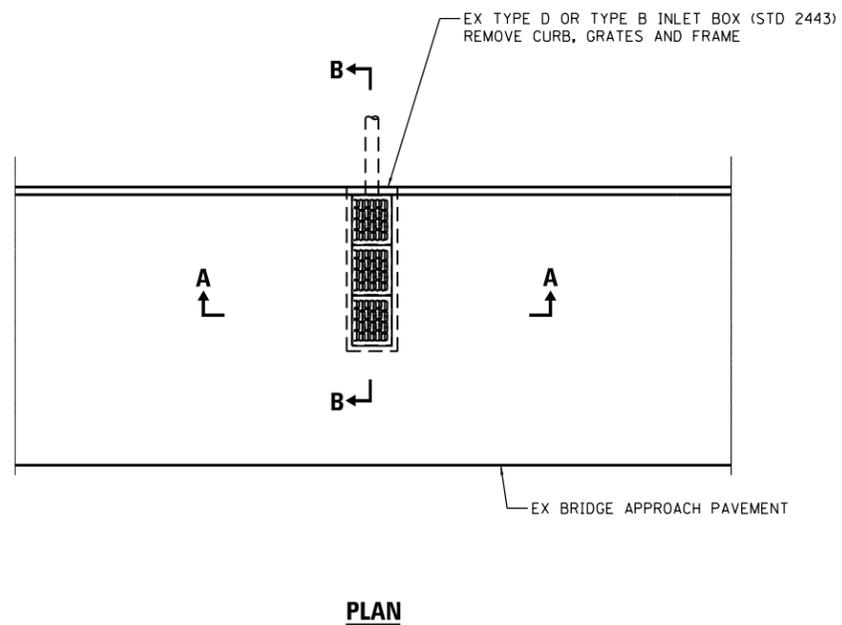
SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

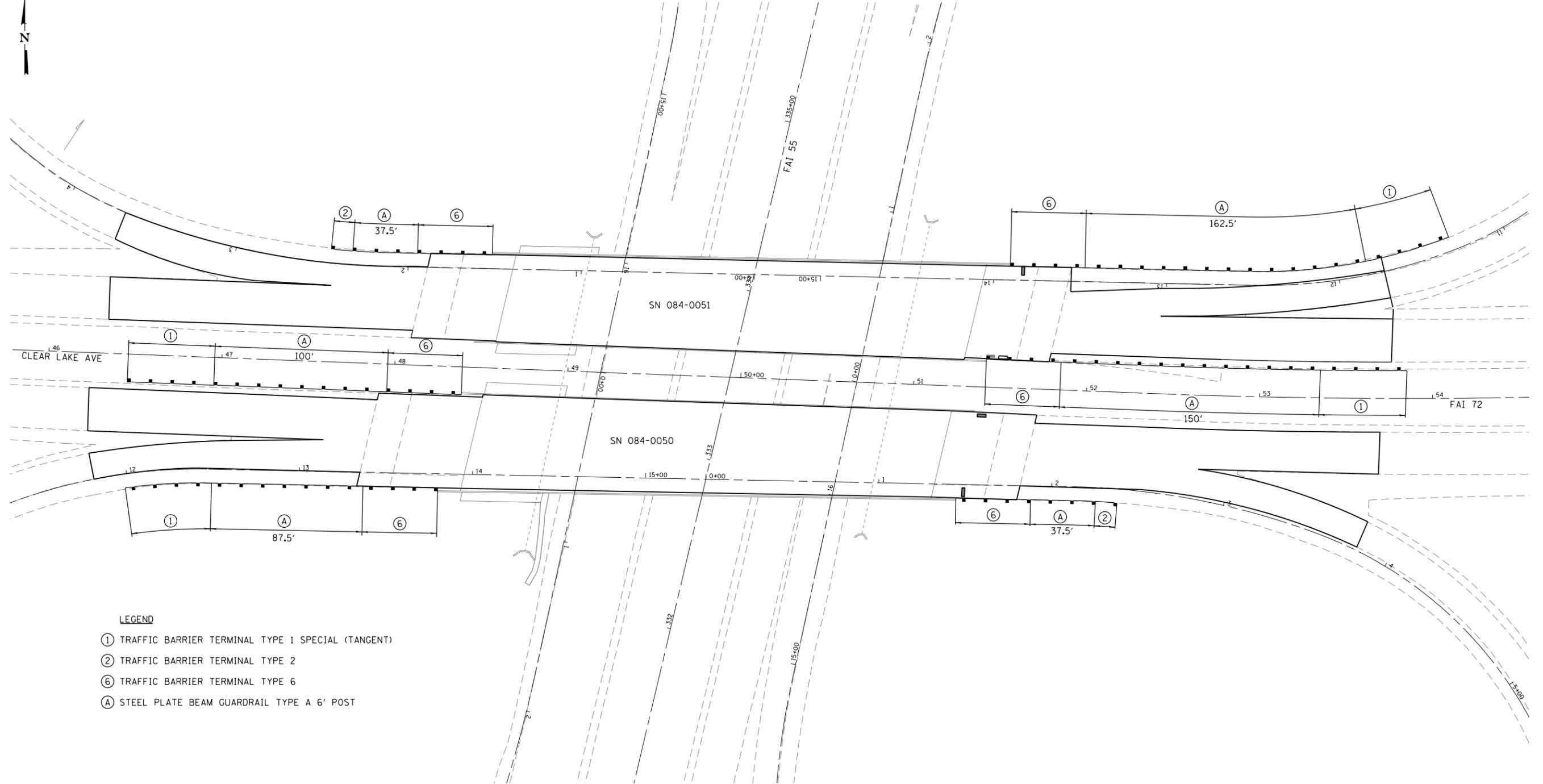
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(84-2) & (84-3) BRR	SANGAMON	98	50
ILLINOIS FED. AID PROJECT			CONTRACT NO. 72197	



GENERAL NOTES

THE CONTRACTOR SHALL FURNISH AND INSTALL A NEW CAST FRAME AND CAST GRATES AS SPECIFIED ON STANDARD 610001 FOR THE TYPE F INLET BOX (OUTSIDE SHOULDERS) OR TYPE G INLET BOX (MEDIAN SHOULDERS)





LEGEND

- ① TRAFFIC BARRIER TERMINAL TYPE 1 SPECIAL (TANGENT)
- ② TRAFFIC BARRIER TERMINAL TYPE 2
- ⑥ TRAFFIC BARRIER TERMINAL TYPE 6
- Ⓐ STEEL PLATE BEAM GUARDRAIL TYPE A 6' POST

Existing Structure: S.N. 084-0103 was originally constructed in 1963 as F.A.I. Rte 55, Section 84, 3HB-8. The deck was sealed in 2014. The existing structure is a four span PPC I-Beam bridge with a CIP concrete deck. The center spans contain 5 beams and the outer spans contain 4 beams. The total bridge length is 221'-1" Bk. to Bk. of abutments and is 29'-8" O. to O. of deck. The substructure consists of stub abutments on concrete piles and 3 hammerhead piers on timber piles. The structure is not skewed. All repairs to be made while traffic is maintained utilizing stage construction.

SCOPE OF WORK

1. Repair North end of Pier 2 utilizing Temporary Shoring and Cribbing.
2. Remove and replace joints at Piers 1 and 3.
3. Remove and replace silicone joint sealer at Pier 2.
4. Complete Deck Slab Repairs.
5. Perform PPC I-Beam Repairs.

INDEX OF SHEETS

1. General Plan and Elevation
2. Stage Construction Details
3. Deck Slab Repair Plan Details
4. Expansion Joint Replacement Details
5. Parapet and Joint Replacement Details
6. Preformed Joint Strip Seal
7. Pier 2 Repair Details
8. Bar Splicer Assembly and Mechanical Splicer Details
- 8A. PPC I-Beam Repair Details

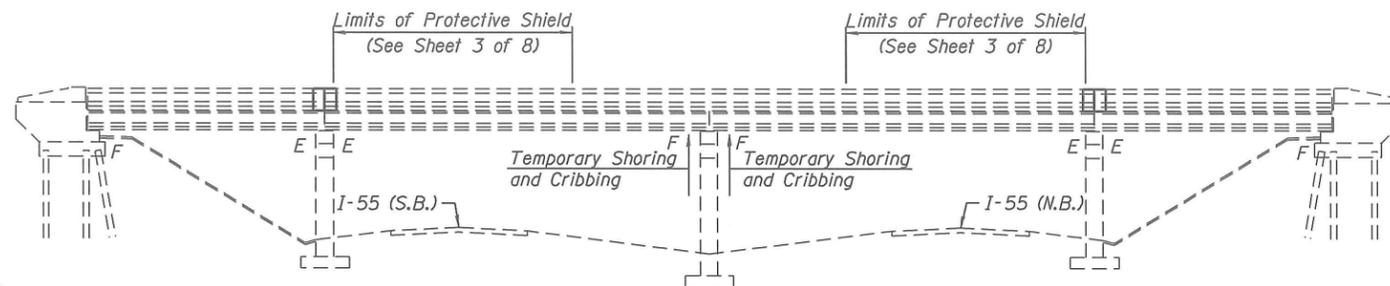
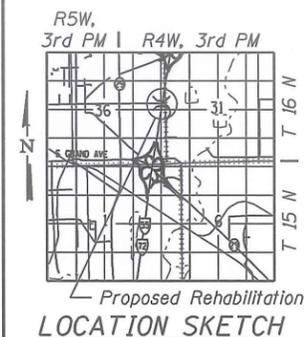
GENERAL NOTES

Reinforcement bars designated (E) shall be epoxy coated.
 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.
 Joint openings shall be adjusted according to Article 520.04 of the Std. Specs. when the deck is poured at an ambient temperature other than 50° F.
 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.

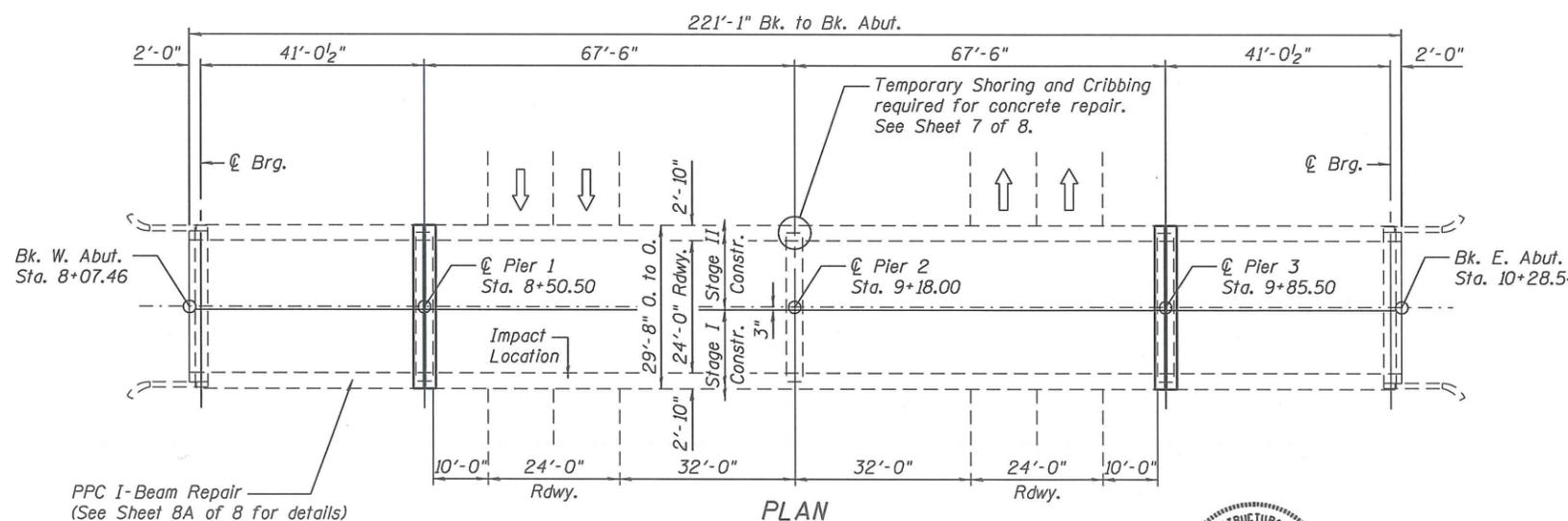
TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Concrete Removal	Cu. Yd.	2.6
Protective Shield	Sq. Yd.	277
Concrete Superstructure	Cu. Yd.	2.6
Protective Coat	Sq. Yd.	833
Reinforcement Bars, Epoxy Coated	Pound	360
Bar Splicers	Each	8
Preformed Joint Strip Seal	Foot	56
Structural Repair of Concrete (Depth Equal To Or Less Than 5 Inches)	Sq. Ft.	42
Deck Slab Repair (Full Depth Type I)	Sq. Yd.	0.4
Deck Slab Repair (Full Depth Type II)	Sq. Yd.	4.5
Deck Slab Repair (Partial)	Sq. Yd.	73.4
Temporary Shoring and Cribbing	Each	2
Silicone Joint Sealer, 3/4"	Foot	30
Fiber Wrap	Sq. Ft.	54.8
Acrylic Coating	Sq. Yd.	6.8
Precast Prestressed Concrete I-Beam Repair	Sq. Ft.	3.7

*Apply to top and inside faces of parapets and sidewalks, and top of deck slab including new concrete adjacent to expansion joints.



ELEVATION



PLAN



DESIGN STRESSES

(New Construction)

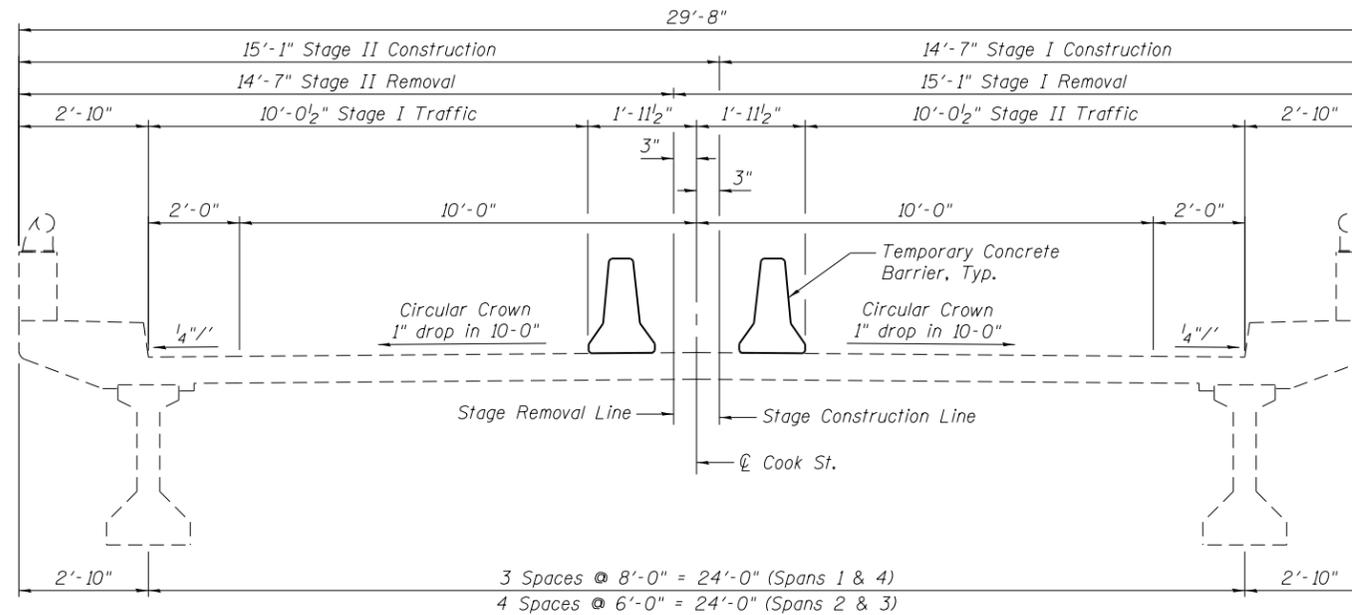
FIELD UNITS

$f_y = 60,000$ psi (Reinforcement)

Michael J. Haley 01-13-2019
 Michael T. Haley
 Licensed Structural Engineer
 State of Illinois No. 81-5991
 Expires 11/30/2020

GENERAL PLAN AND ELEVATION
COOK STREET OVER F.A.I. 55
SECTION (84-3-2) RS-2, BP, BDR
SANGAMON COUNTY
STRUCTURE NO. 084-0103

ORIGINAL: CEC Consulting Engineers Corporation UPDATED: LN ENGINEERING LTD Consulting Engineers DATE = 1/13/2019	JOB =	DESIGNED - AAN MTH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	F.A.I. RTE. 55	SECTION (84-3-2) RS-2, BP, BDR	COUNTY SANGAMON	TOTAL SHEETS 98	SHEET NO. 53
	FILE = 0840103-72J97-001-GP&E.dgn	CHECKED - MDC VPT	REVISED -		CONTRACT NO. 72J97				
	DATE = 1/13/2019	DRAWN - SJS DAS	REVISED -		ILLINOIS FED. AID PROJECT				
		CHECKED - MDC MTH	REVISED -		SHEET NO. 1 OF 8 SHEETS				



STAGE CONSTRUCTION CROSS SECTION
(Looking East)

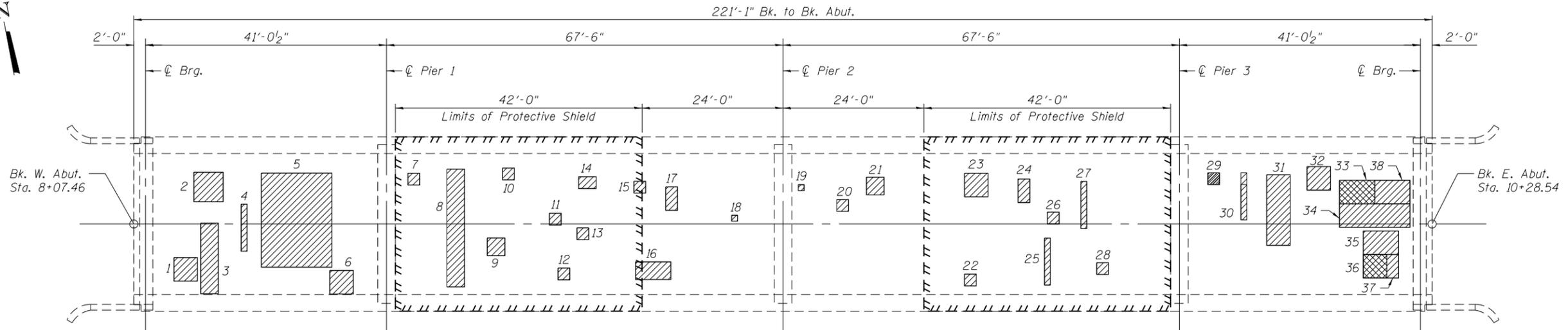
ORIGINAL:	UPDATED:	JOB =	DESIGNED - AAN MTH	REVISED -
CEC Consulting Engineering Corporation	LE ENGINEERING LTD. Consulting Engineers	FILE = 0840103-72J97-002-Stage.dgn	CHECKED - MDC VPT	REVISED -
		DATE = 12/10/2018	DRAWN - SJS DAS	REVISED -
			CHECKED - MDC MTH	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION DETAILS
STRUCTURE NO. 084-0103

SHEET NO. 2 OF 8 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(84-3-2) RS-2, BP, BDR	SANGAMON	98	54
CONTRACT NO. 72J97				
ILLINOIS FED. AID PROJECT				



DECK REPAIR PLAN

**ANTICIPATED DECK SLAB REPAIR
S.N. 084-0103**

PATCH NO.	LENGTH (FT.)	WIDTH (FT.)	AREA (SQ. YD.)
1	4	4	1.8
2	5	5	2.8
3	3	12	4.0
4	1	8	0.9
5	12	16	21.3
6	4	4	1.8
7	2	2	0.4
8	3	20	6.7
9	3	3	1.0
10	2	2	0.4
11	2	2	0.4
12	2	2	0.4
13	2	2	0.4
14	3	2	0.7
15	2	2	0.4
16	6	3	2.0
17	2	4	0.9
18	1	1	0.1
19	1	1	0.1

Continued

**ANTICIPATED DECK SLAB REPAIR
S.N. 084-0103**

PATCH NO.	LENGTH (FT.)	WIDTH (FT.)	AREA (SQ. YD.)
20	2	2	0.4
21	3	3	1.0
22	2	2	0.4
23	4	4	1.8
24	2	4	0.9
25	1	8	0.9
26	2	2	0.4
27	1	8	0.9
28	2	2	0.4
29	2	2	0.4
30	1	8	0.9
31	4	12	5.3
32	4	4	1.8
33	6	4	2.7
34	12	4	5.3
35	6	4	2.7
36	4	4	1.8
37	2	4	0.9
38	6	4	2.7

Total= 78.3

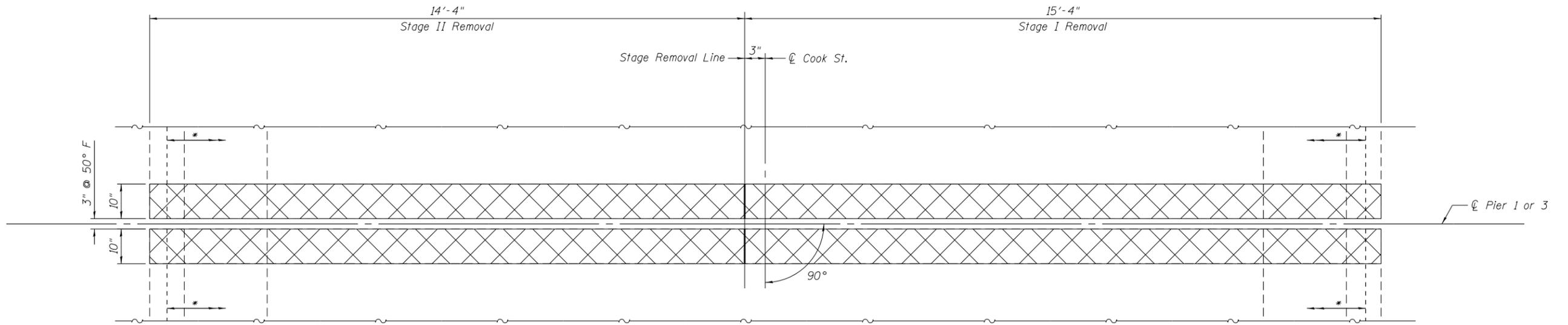
LEGEND

- Deck Slab Repair (Full Depth, Type I)
- Deck Slab Repair (Full Depth, Type II)
- Deck Slab Repair (Partial)
- Protective Shield

TOTAL BILL OF MATERIAL

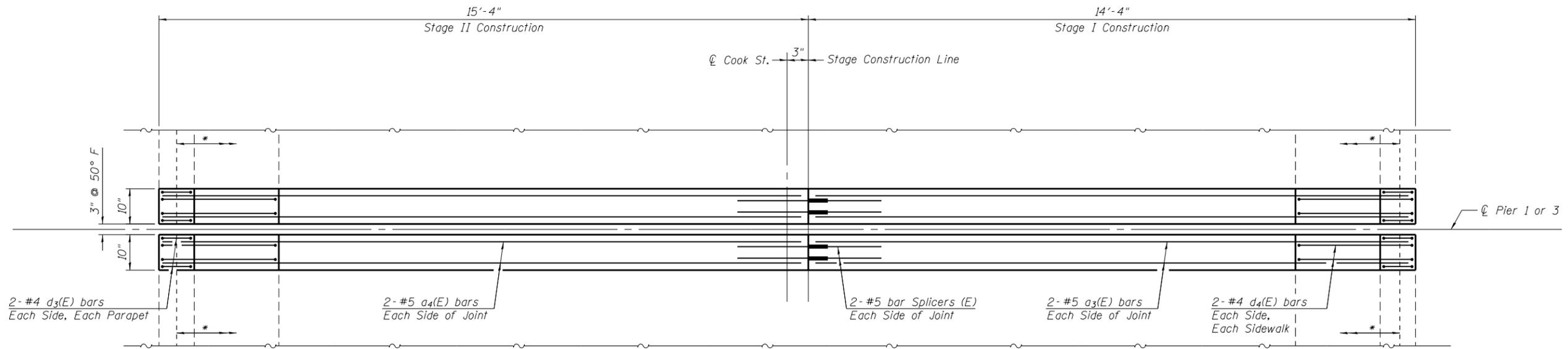
ITEM	UNIT	TOTAL
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	0.4
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	4.5
Deck Slab Repair (Partial)	Sq. Yd.	73.4
Protective Shield	Sq. Yd.	277

Note:
Areas of deck repairs shown are estimated.
The Engineer shall document actual locations
of deck repairs on As-Built Plans.



EXISTING PLAN AT EXPANSION JOINT

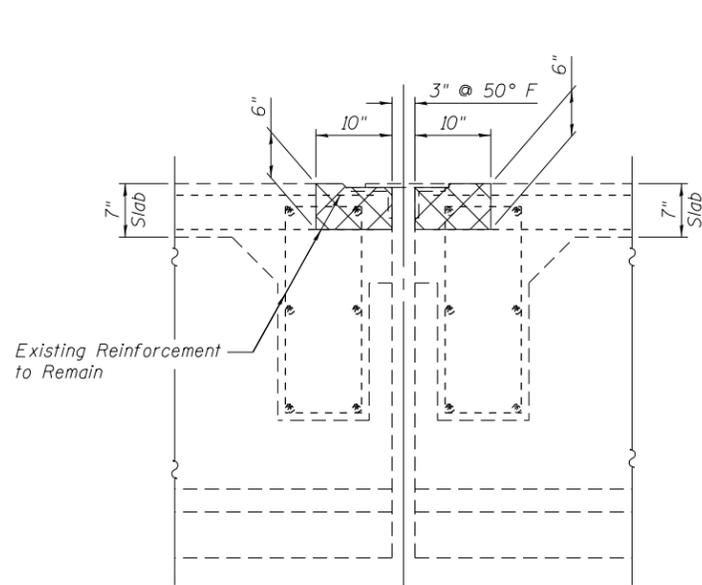
* Existing longitudinal reinforcement and stirrups in diaphragm shall be cleaned and incorporated into the new construction. Cost included with Concrete Removal.



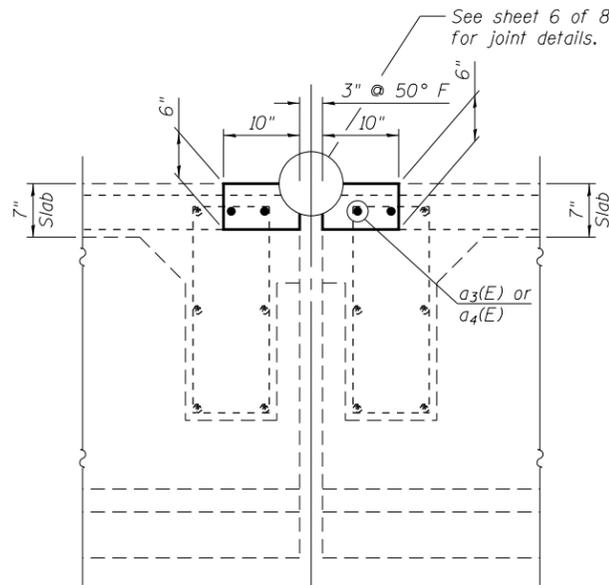
PROPOSED PLAN AT EXPANSION JOINT

Notes:
 Cross Hatched areas indicate limits of Concrete Removal. See Section Details on Sheet 5 of 8.
 Any reinforcement bars that are damaged during concrete removal operations shall be repaired or replaced using an approved bar splicer or anchorage system. Cost included with "Concrete Removal".

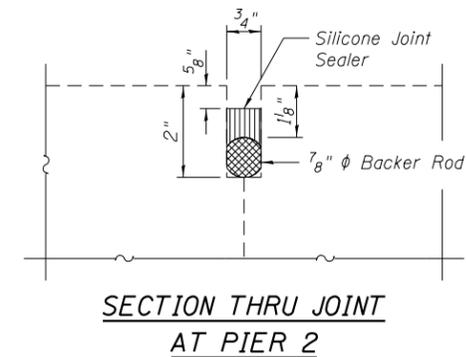
ORIGINAL: CEC Consulting Engineering Corporation UPDATED: LE ENGINEERING LTD. Consulting Engineers <small>Civil and Structural Engineering</small>	JOB =	DESIGNED - AAN MTH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXPANSION JOINT REPLACEMENT DETAILS STRUCTURE NO. 084-0103	F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	FILE = 0840103-72J97-004-005-JointRep.dgn	CHECKED - MDC VPT	REVISED -			55	(84-3-2) RS-2, BP, BDR	SANGAMON	98	56
DATE = 12/10/2018	DRAWN - SJS DAS	REVISED -	CONTRACT NO. 72J97							
	CHECKED - MDC MTH	REVISED -	SHEET NO. 4 OF 8 SHEETS			ILLINOIS FED. AID PROJECT				



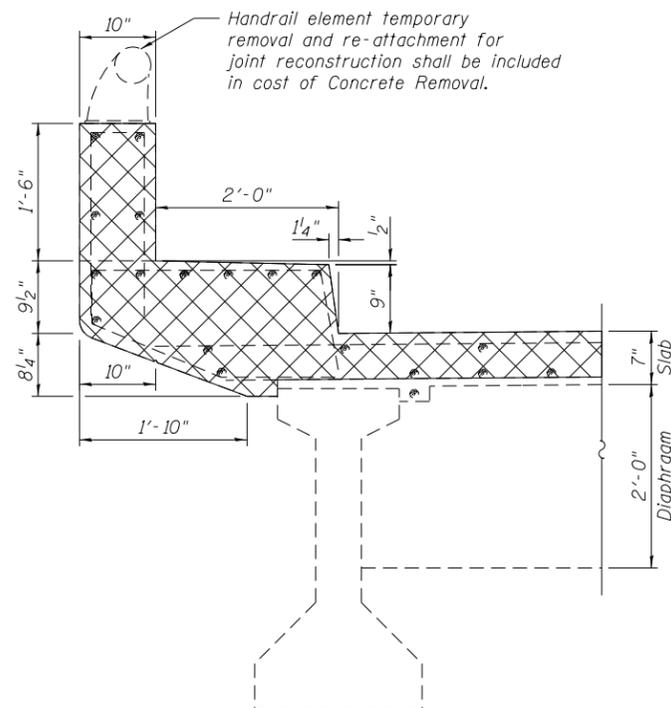
**SECTION THRU JOINT
AT PIER 1 OR 3**
(Showing Removal)



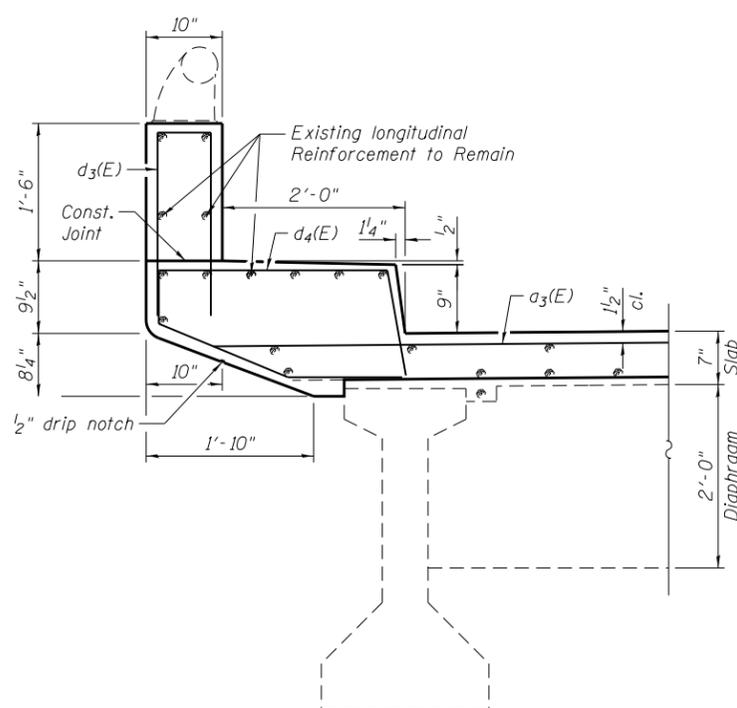
**SECTION THRU JOINT
AT PIER 1 OR 3**
(Showing Proposed)



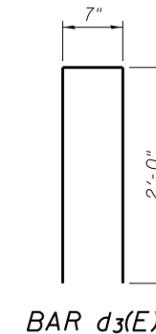
**SECTION THRU JOINT
AT PIER 2**



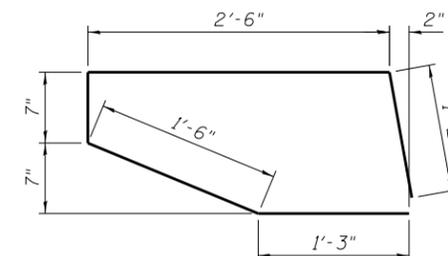
**SECTION THRU PARAPET
AT PIER 1 OR 3**
(Showing Removal)



**SECTION THRU PARAPET
AT PIER 1 OR 3**
(Showing Proposed)



BAR d3(E)



BAR d4(E)

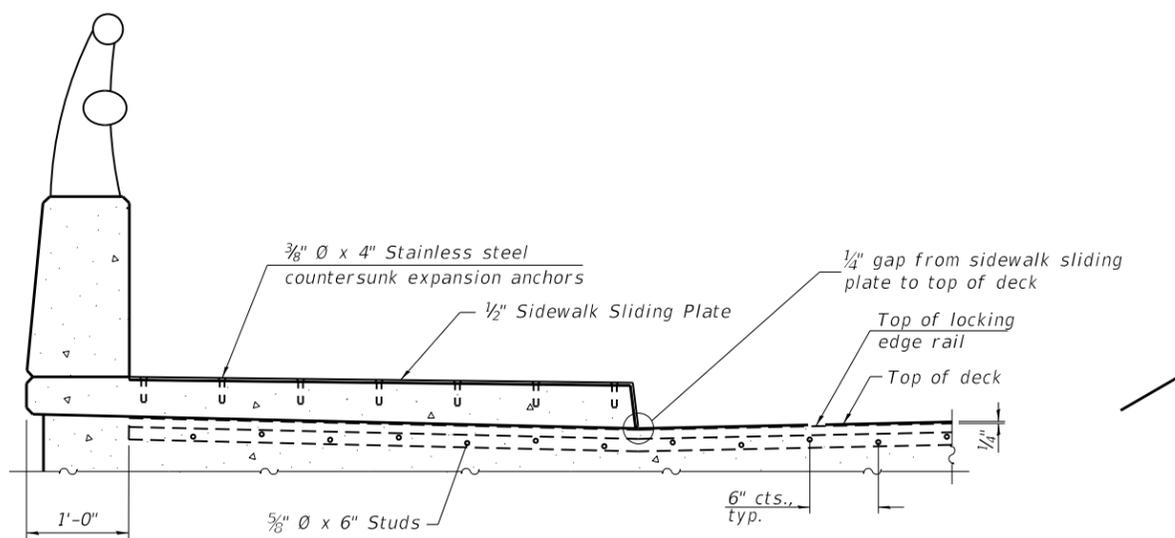
**SUPERSTRUCTURE
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a ₃ (E)	8	#5	13'-7"	—
a ₄ (E)	8	#5	14'-1"	—
d ₃ (E)	16	#4	4'-7"	⊓
d ₄ (E)	16	#4	7'-0"	⊓
Reinforcement Bars, Epoxy Coated			Pound	360
Concrete Superstructure			Cu. Yd.	2.6
Concrete Removal			Cu. Yd.	2.6
Bar Splicers			Each	8
Silicone Joint Sealer, 3/4"			Foot	30

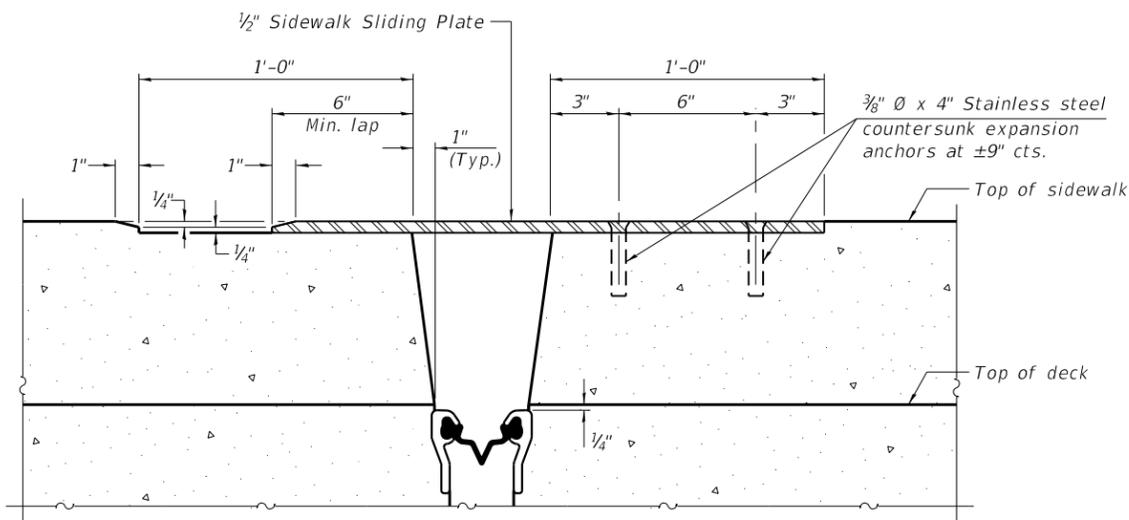
Cross Hatched areas indicate limits of Concrete Removal.

Existing reinforcement extending into the removal area shall be cleaned and incorporated into the new construction. Cost included with Concrete Removal.

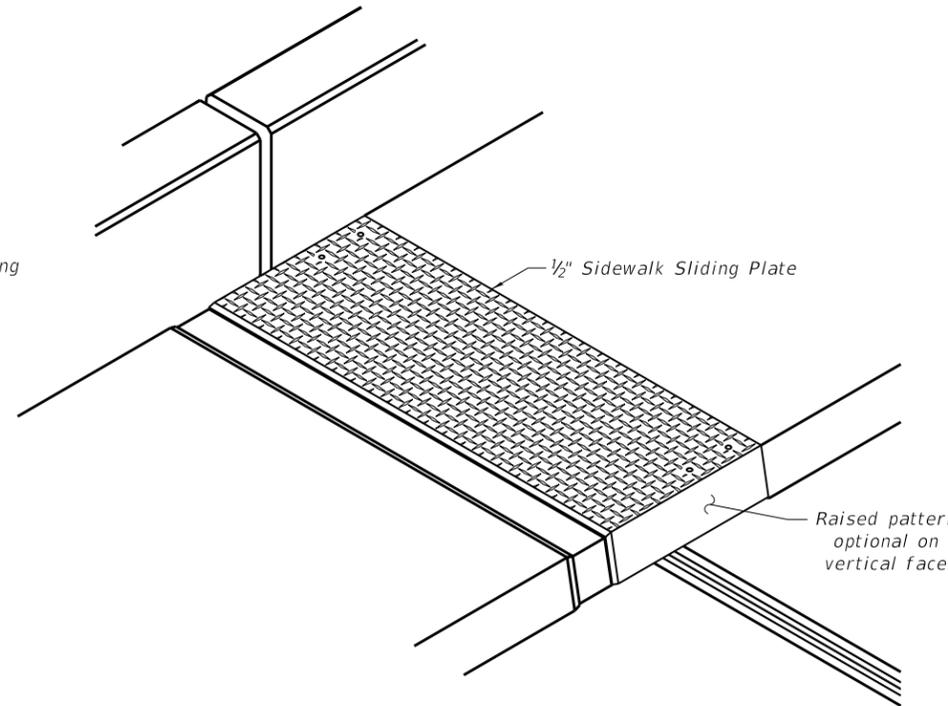
Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.



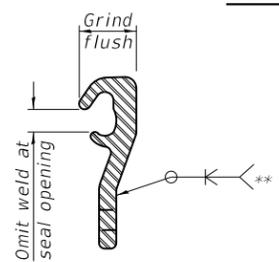
ELEVATION AT RAISED SIDEWALK



SECTION C-C

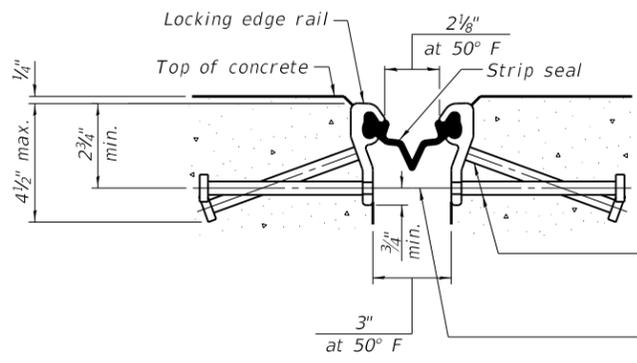


TRIMETRIC VIEW



LOCKING EDGE RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue. Rolled rail shown, welded rail similar.

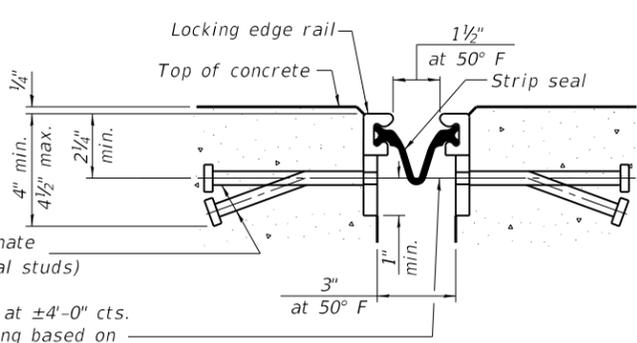


SHOWING ROLLED RAIL JOINT

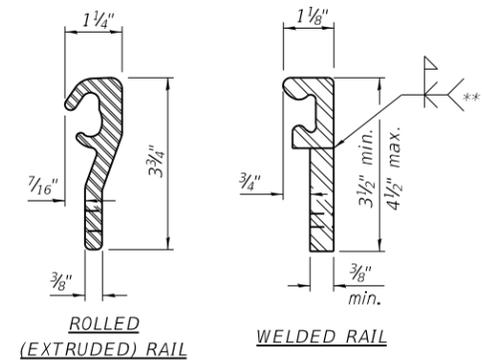
* 5/8" ϕ x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)
 3/8" ϕ threaded rods in 7/16" ϕ holes at $\pm 4'-0"$ cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

SECTION A-A

* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.

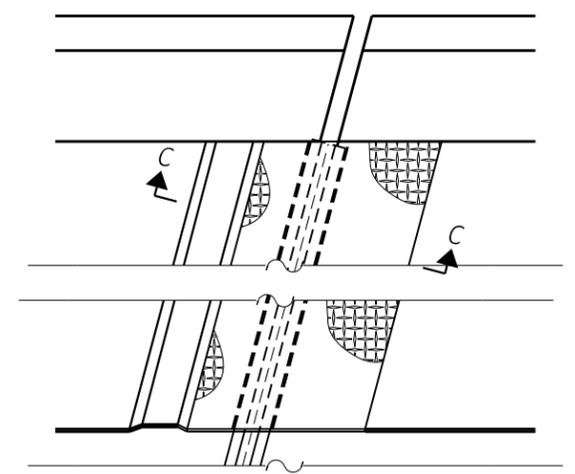


SHOWING WELDED RAIL JOINT



LOCKING EDGE RAILS

** Back gouge not required if complete joint penetration is verified by mock-up.



PLAN AT RAISED SIDEWALK

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	56

ORIGINAL: CEC
 UPDATED: E
 CEC Consulting Engineers Ltd.
 Civil and Structural Engineering

JOB =
 FILE = 0840103-72J97-006-Joint.dgn
 DATE = 12/10/2018

DESIGNED - AAN MTH
 CHECKED - MDC VPT
 DRAWN - SJS DAS
 CHECKED - MDC MTH
 REVISED -
 REVISED -
 REVISED -
 REVISED -

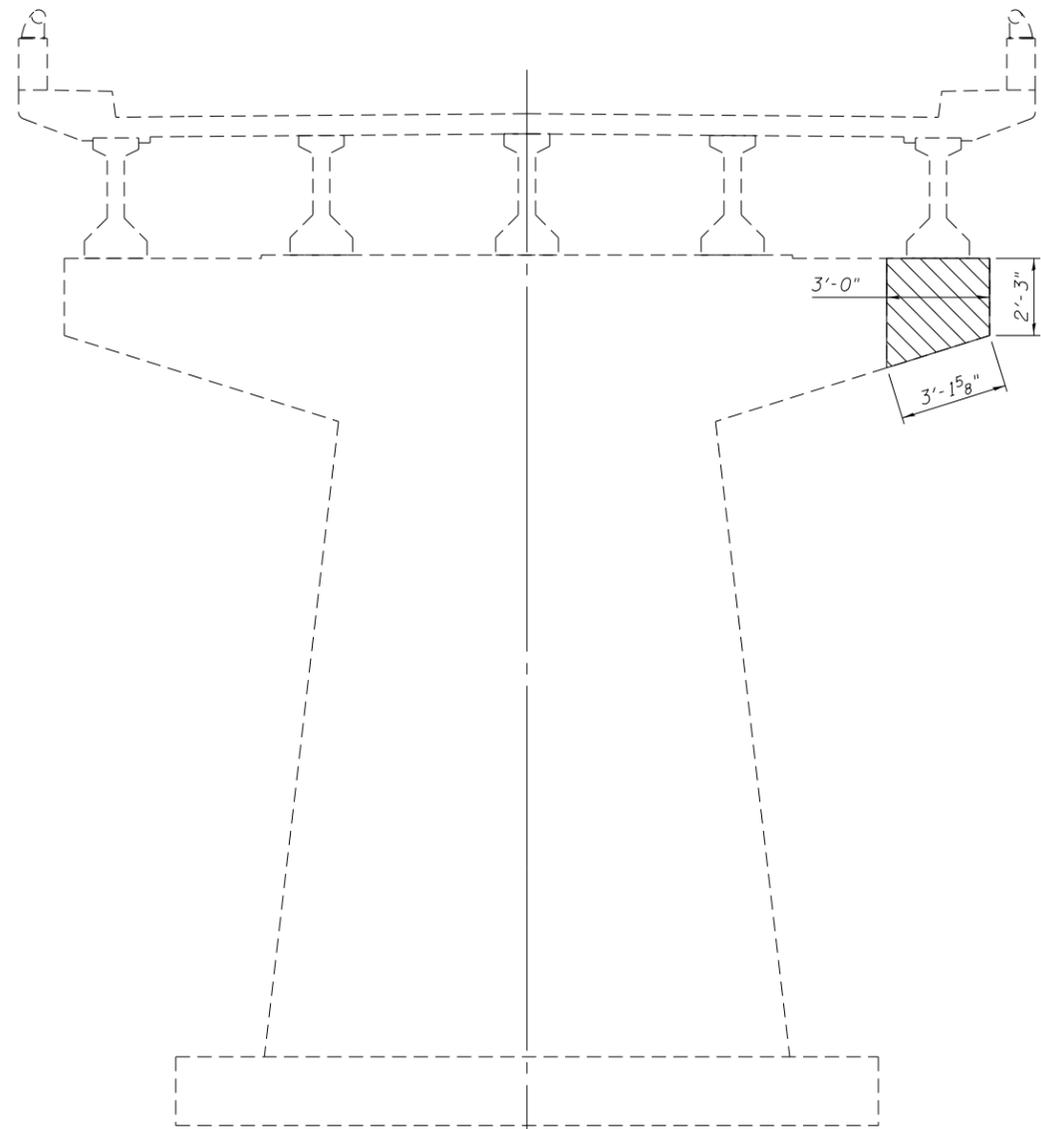
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL
 STRUCTURE NO. 084-0103

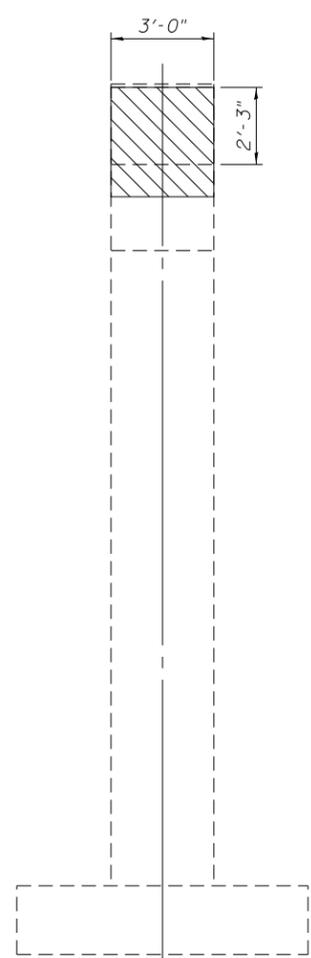
SHEET NO. 6 OF 8 SHEETS

F.A.I. R.T.E. SECTION COUNTY TOTAL SHEETS SHEET NO.
 55 (84-3-2) RS-2, BP, BDR SANGAMON 98 58
 CONTRACT NO. 72J97

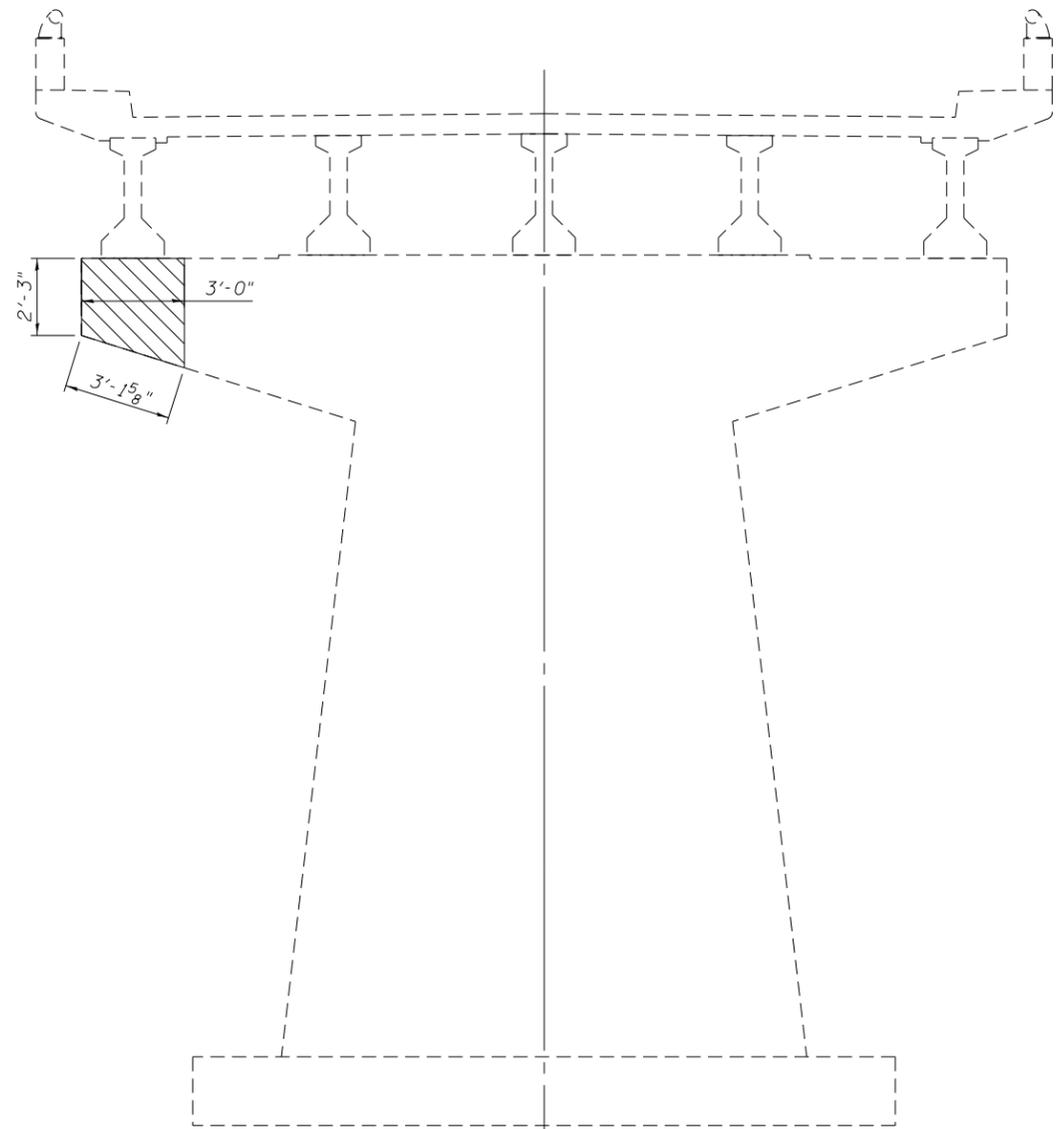
ILLINOIS FED. AID PROJECT



ELEVATION-PIER 2
(Looking West)



END VIEW
(Looking South)



ELEVATION-PIER 2
(Looking East)

**SINGLE BEAM
REACTION TABLE**

Dead Load	102.2 Kips
Live Load	33.8 Kips
Impact	8.8 Kips

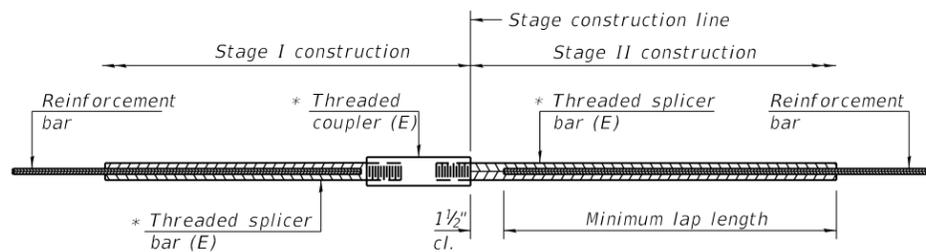
Reactions shown above are for a single beam. Northernmost beam in both Span 2 and Span 3 at Pier 2 shall be supported while concrete repairs are being made. See Special Provision for Temporary Shoring and Cribbing. Two (2) beam reactions shall be included, one for Span 2 and one for Span 3.

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structural Repair of Concrete (Depth Equal To Or Less Than 5 Inches)	Sq. Ft.	42
Temporary Shoring and Cribbing	Each	2

Hatched areas indicate limits of Structural Repair of Concrete.

Note:
Repair of existing piers shall include but may not be limited to the areas shown. The actual areas to be repaired shall be determined by the Engineer at time of construction.

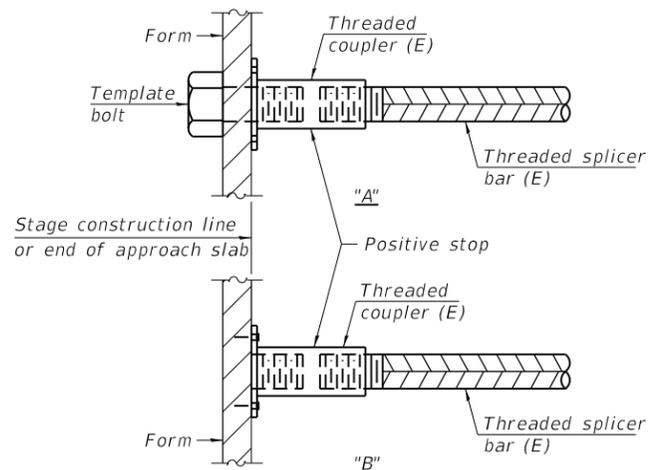


STANDARD BAR SPLICER ASSEMBLY

Threaded splicer bar length = min. lap length + 1 1/2" + thread length

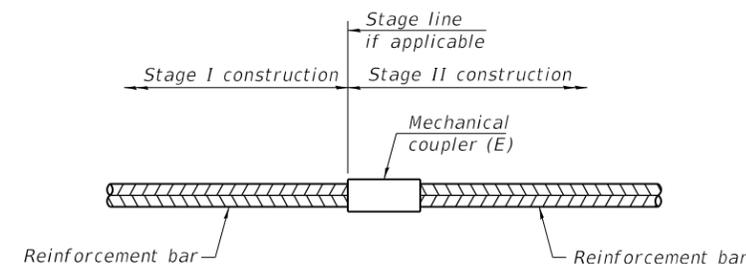
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
Joints	#5	8	3'-6"



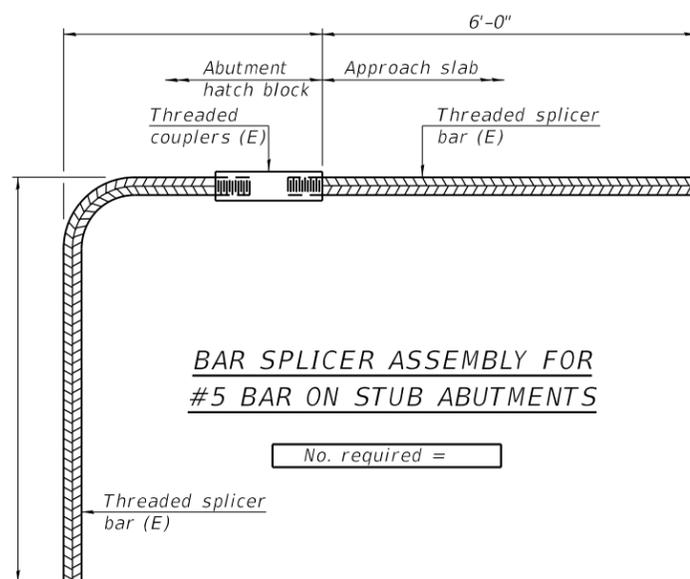
INSTALLATION AND SETTING METHODS

"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



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. 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 2-17-2017

ORIGINAL: CEC UPDATED: LBN ENGINEERING LTD. CEC Consulting Engineers CIVIL AND STRUCTURAL ENGINEERING	JOB =	DESIGNED - AAN MTH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS STRUCTURE NO. 084-0103	F.A.I. R.T.E. =	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	FILE = 0840103-72J97-008-Splicer.dgn	CHECKED - MDC VPT	REVISED -			55	(84-3-2) RS-2, BP, BDR	SANGAMON	98	60
DATE = 12/10/2018	DRAWN - SJS DAS	REVISED -				CONTRACT NO. 72J97				
	CHECKED - MDC MTH	REVISED -				ILLINOIS FED. AID PROJECT				

Existing Structures: S.N. 084-0050 and 084-0051 were originally constructed in 1963 as F.A.I. Rte. 55, Section 84, 3HB, F. The structures were reconstructed in 1993. The existing structures are four span continuous steel beam bridges. The total bridge length is 273'-4" Bk. to Bk. of abutments. The deck width varies from 52'-4 3/8" to 56'-11 7/8" O. to O. The bridges are skewed 11°12'00" left forward. The abutments are the open type and are founded on steel H-piles. The piers are multi-column hammerheads founded on spread footings on rock. The joints will be replaced with strip seal joints and a microsilica overlay will be added. The entire steel superstructure will be cleaned and painted. Traffic will be maintained utilizing stage construction.

DESIGN STRESSES

(New Construction)

FIELD UNITS

fy = 60,000 psi (Reinforcement)

SCOPE OF WORK

1. Remove existing neoprene joints at Abutments.
2. Remove concrete near expansion joints at Abutments.
3. Perform bridge deck scarification.
4. Complete deck slab repairs.
5. Adjust drainage scuppers.
6. Install new concrete and strip seal expansion joints at both abutments.
7. Pour new microsilica concrete overlay.
8. Perform Diamond Grinding.
9. Perform bridge deck grooving on new deck surface.
10. Apply protective coat.
11. Clean and Paint Structural Steel

Note: Up to 1/4" will be ground off the microsilica overlay.

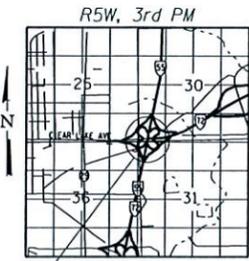
INDEX OF SHEETS

1. General Plan and Elevation
2. General Data
- 3.-4. Deck Slab Repair Plan Details
5. Adjusting Existing Scuppers
- 6.-7. Expansion Joint Replacement Details
8. Parapet and Joint Replacement Details
9. Preformed Joint Strip Seal
10. Slopewall Repairs
11. Bar Splicer Details
- 12.-17. Pier Crashwall Extension
- 18.-22. Existing Plans

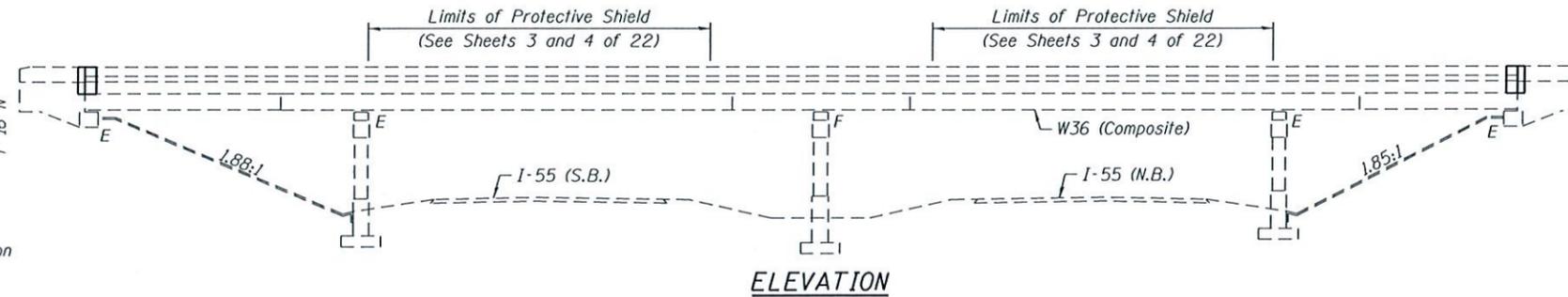
Notes:

Existing curbs shall be re-constructed as per the Engineer. Cost included with Structural Repair of Concrete (Depth Equal to or Less than 5 Inches).

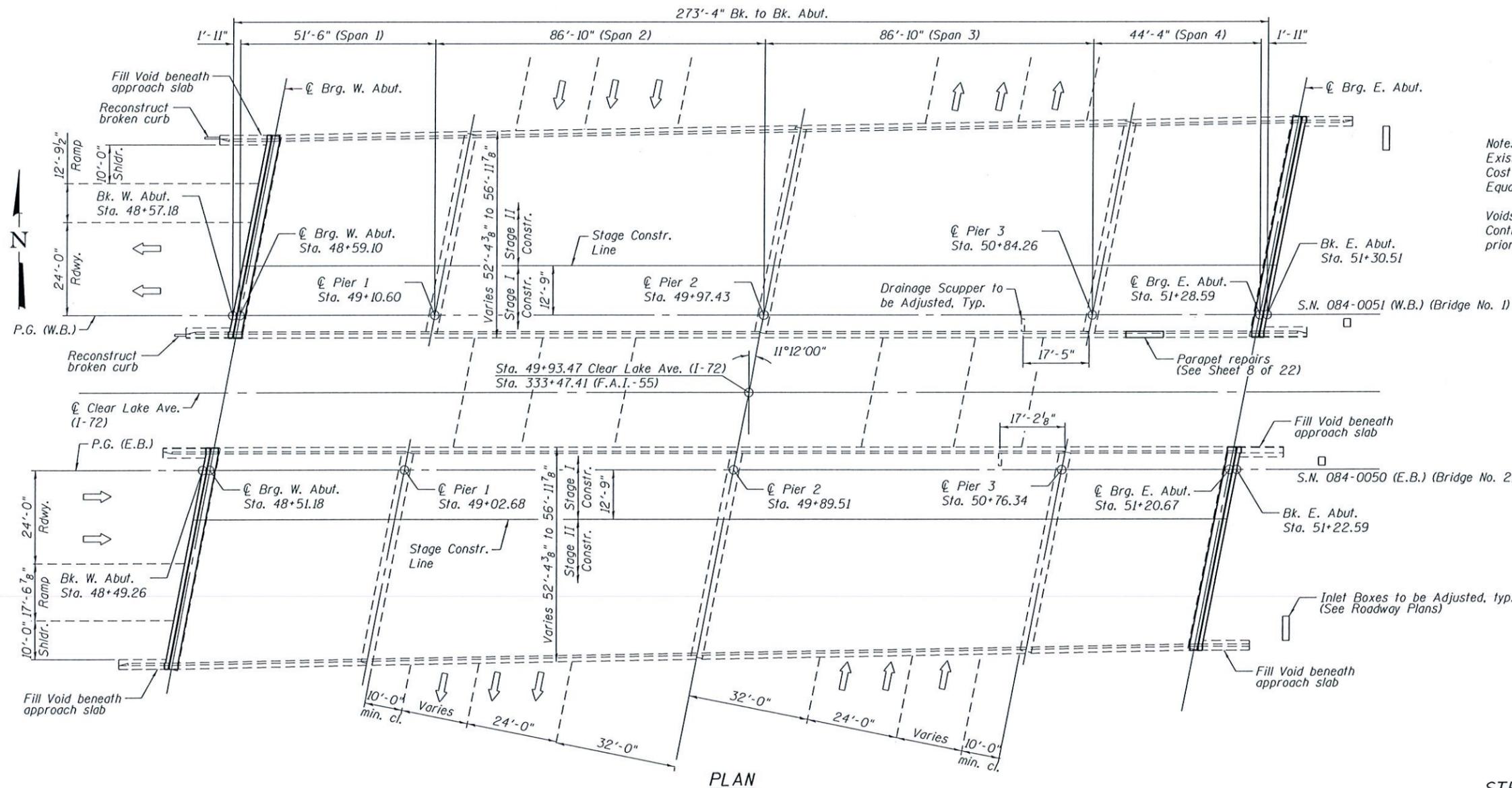
Voids beneath the approach slab shall be filled with Controlled Low-Strength Material as directed by the Engineer, prior to Stage I Traffic being shifted.



Proposed Rehabilitation
LOCATION SKETCH



ELEVATION



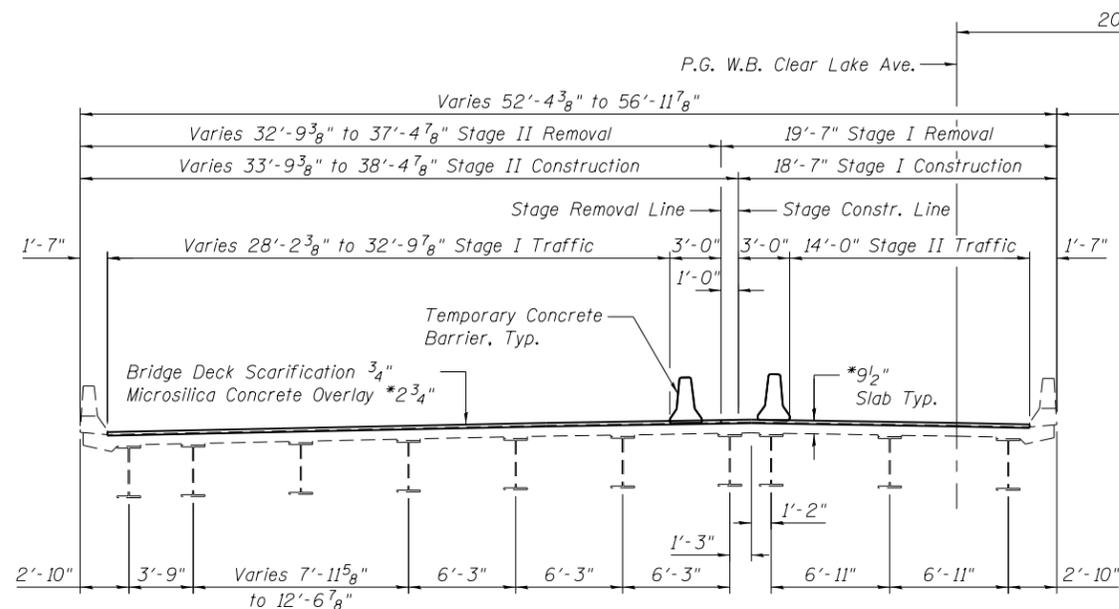
PLAN



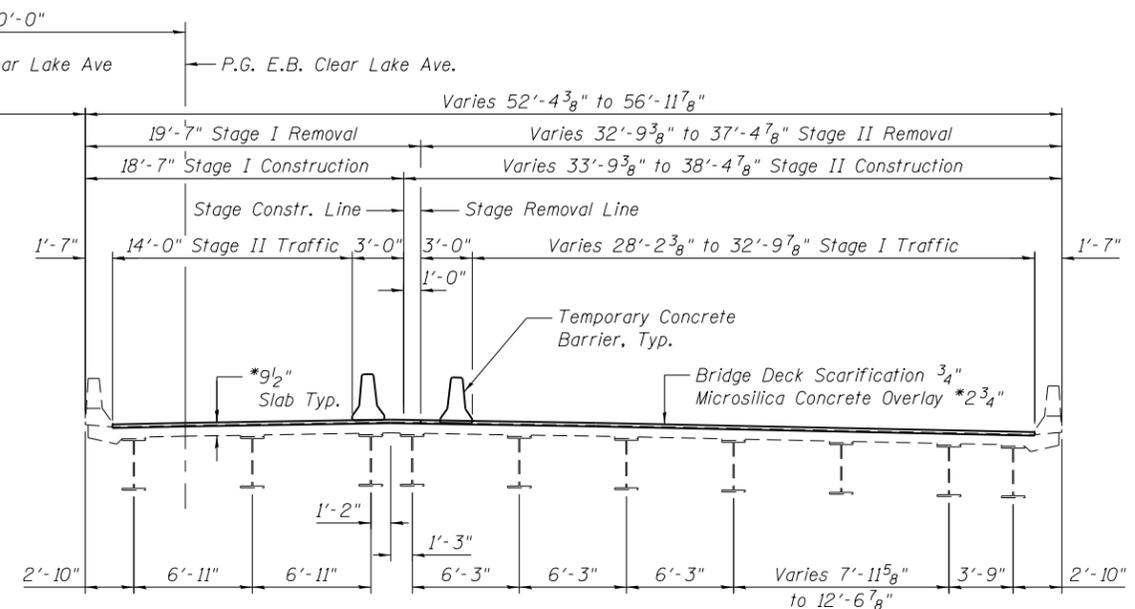
Michael T. Haley 12-11-2018
 Michael T. Haley
 Licensed Structural Engineer
 State of Illinois No. 81-5991
 Expires 11/30/2020

GENERAL PLAN AND ELEVATION
F.A.P. 67 OVER F.A.I. 55
SECTION (84-3-2) RS-2, BP, BDR
SANGAMON COUNTY
STRUCTURE NO. 084-0050 (EB) & 0051 (WB)

ORIGINAL: CEC UPDATED: E CONSULTING ENGINEERS	JOB =	DESIGNED - AAN MTH	REVISD -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	F.A.P. RTE. = 67	SECTION = (84-3-2) RS-2, BP, BDR	COUNTY = SANGAMON	TOTAL SHEETS = 98	SHEET NO. = 61
	FILE = 0840050-0051-72J97-001-GP&E.dgn DATE = 12/10/2018	CHECKED - MDC VPT DRAWN - SJS DAS	REVISD - REVISD -		SHEET NO. 1 OF 22 SHEETS	ILLINOIS FED. AID PROJECT			



STAGE I & STAGE II REMOVAL & CONSTRUCTION
(Westbound Lanes)
(Looking East)

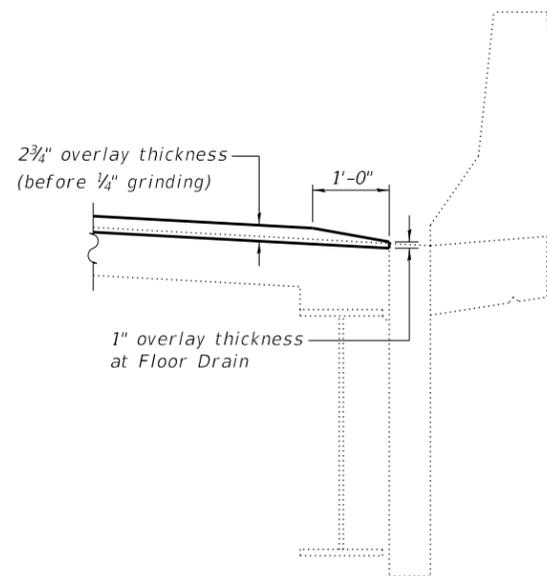


STAGE I & STAGE II REMOVAL & CONSTRUCTION
(Eastbound Lanes)
(Looking East)

* Prior to 1/4" Grinding

GENERAL NOTES

Reinforcement bars designated (E) shall be epoxy coated.
 Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. 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 the existing concrete.
 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.
 The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.
 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 shall be painted according to the requirements of Paint System 1-OZ/E/U. The color of the final finish coat for all interior steel surfaces shall be Gray, Munsell No 5B 7/1. The color of the final finish coat for the exterior and bottom flange of the fascia beams shall be Interstate Green, Munsell No 7.5G 4/8.
 Synthetic fibers shall be added to the Bridge Deck Microsilica Concrete Overlay. See Special Provisions.



OVERLAY AT DRAIN

TOTAL BILL OF MATERIAL

ITEM	UNIT	SN 084-0050	SN 084-0051	TOTAL
Concrete Removal	Cu. Yd.	17.7	18.3	36.0
Protective Shield	Sq. Yd.	759	759	1,518
Concrete Structures	Cu. Yd.	23.8	23.8	47.6
Concrete Superstructure	Cu. Yd.	19.7	21.3	41.0
Bridge Deck Grooving (Longitudinal)	Sq. Yd.	1,491	1,491	2,982
Reinforcement Bars, Epoxy Coated	Pound	4,820	4,810	9,630
Bar Splicers	Each	24	24	48
Preformed Joint Strip Seal	Foot	109	109	218
Controlled Low-Strength Material	Cu. Yd.	4.5	1.5	6.0
Containment and Disposal of Lead Paint Cleaning Residues No. 1	L. Sum	1	-	1
Containment and Disposal of Lead Paint Cleaning Residues No. 2	L. Sum	-	1	1
Cleaning and Painting Steel Bridge No. 1	L. Sum	1	-	1
Cleaning and Painting Steel Bridge No. 2	L. Sum	-	1	1
Bridge Deck Scarification 3/4"	Sq. Yd.	1,527	1,527	3,054
Bridge Deck Microsilica Concrete Overlay 2 3/4"	Sq. Yd.	1,527	1,527	3,054
Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)	Sq. Ft.	28	16	44
Deck Slab Repair (Full Depth Type I)	Sq. Yd.	0.9	0.6	1.5
Deck Slab Repair (Full Depth Type II)	Sq. Yd.	26.0	42.2	68.2
Drainage Scupper to be Adjusted	Each	1	1	2
Diamond Grinding (Bridge Section)	Sq. Yd.	1,441	1,441	2,882
Slope Wall Slurry Pumping	Cu. Yd.	27.2	0	27.2
** Protective Coat	Sq. Yd.	1,775	1,775	3,550

** Apply to top and inside faces of parapets, and to top of deck slab including new concrete adjacent to expansion joints.

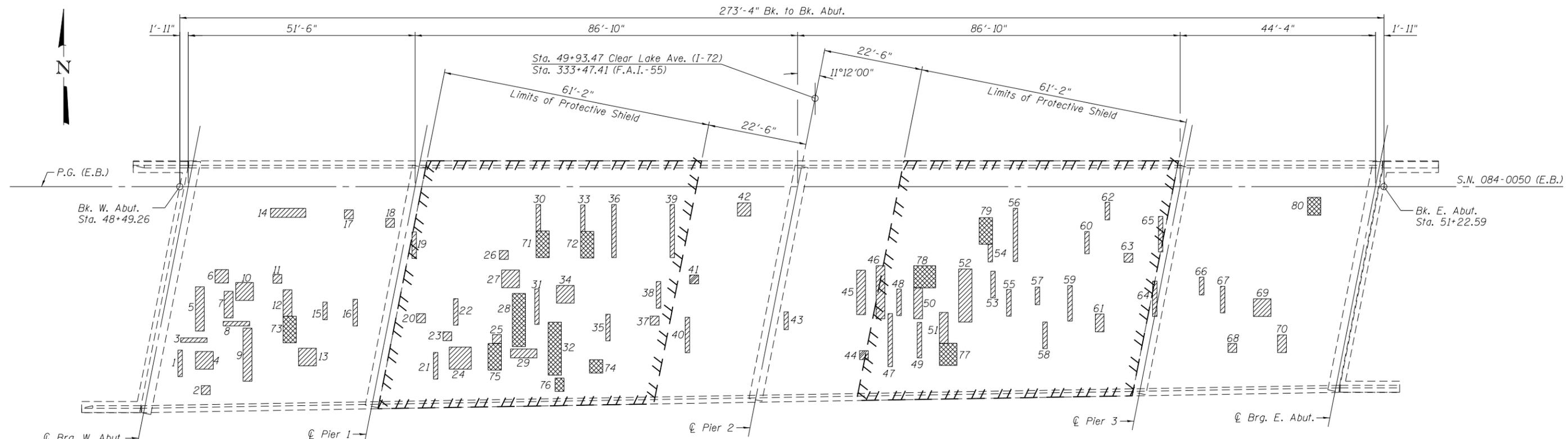
ORIGINAL:	UPDATED:	JOB =	DESIGNED - AAN MTH	REVISED -
CEC	IB ENGINEERING LTD.	FILE = 0840050-0051-72J97-002-Stage.dgn	CHECKED - MDC VPT	REVISED -
		DATE = 12/10/2018	DRAWN - SJS DAS	REVISED -
			CHECKED - MDC MTH	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL DATA
STRUCTURE NO. 084-0050 (EB) & 0051 (WB)

SHEET NO. 2 OF 22 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
67	(84-3-2) RS-2, BP, BDR	SANGAMON	98	62
			CONTRACT NO. 72J97	
ILLINOIS FED. AID PROJECT				



DECK REPAIR PLAN
(S.N. 084-0050 EB)

ANTICIPATED DECK SLAB REPAIR
S.N. 084-0050 (E.B.)

PATCH NO.	LENGTH (FT.)	WIDTH (FT.)	AREA (SQ. YD.)
1	1	6	0.7
2	2	2	0.4
3	6	1	0.7
4	4	4	1.8
5	2	10	2.2
6	3	3	1.0
7	2	4	0.9
8	6	1	0.7
9	2	12	2.7
10	4	4	1.8
11	2	2	0.4
12	2	6	1.3
13	4	4	1.8
14	8	2	1.8
15	1	4	0.4
16	1	6	0.7
17	2	2	0.4
18	2	2	0.4
19	1	6	0.7
20	2	2	0.4
21	1	6	0.7
22	1	6	0.7
23	2	2	0.4
24	5	5	2.8
25	2	2	0.4
26	2	2	0.4
27	4	4	1.8
28	3	12	4.0
29	6	2	1.3
30	1	6	0.7
31	1	8	0.9
32	3	12	4.0
33	1	6	0.7
34	4	4	1.8
35	1	6	0.7

Continued

ANTICIPATED DECK SLAB REPAIR
S.N. 084-0050 (E.B.)

PATCH NO.	LENGTH (FT.)	WIDTH (FT.)	AREA (SQ. YD.)
36	1	12	1.3
37	2	2	0.4
38	1	6	0.7
39	1	12	1.3
40	1	8	0.9
41	2	2	0.4
42	3	3	1.0
43	1	4	0.4
44	2	2	0.4
45	2	10	2.2
46	2	12	2.7
47	1	12	1.3
48	1	6	0.7
49	1	8	0.9
50	2	7	1.6
51	2	7	1.6
52	3	12	4.0
53	1	6	0.7
54	1	4	0.4
55	1	6	0.7
56	1	12	1.3
57	1	4	0.4
58	1	6	0.7
59	1	8	0.9
60	1	5	0.6
61	2	4	0.9
62	1	4	0.4
63	2	2	0.4
64	1	8	0.9
65	1	8	0.9
66	1	4	0.4
67	1	6	0.7
68	2	2	0.4
69	4	4	1.8
70	2	4	0.9

Continued

ANTICIPATED DECK SLAB REPAIR
S.N. 084-0050 (E.B.)

PATCH NO.	LENGTH (FT.)	WIDTH (FT.)	AREA (SQ. YD.)
71	3	6	2.0
72	3	6	2.0
73	3	6	2.0
74	3	3	1.0
75	3	6	2.0
76	2	3	0.7
77	4	5	2.2
78	5	5	2.8
79	3	6	2.0
80	3	4	1.3

Total= 95.7

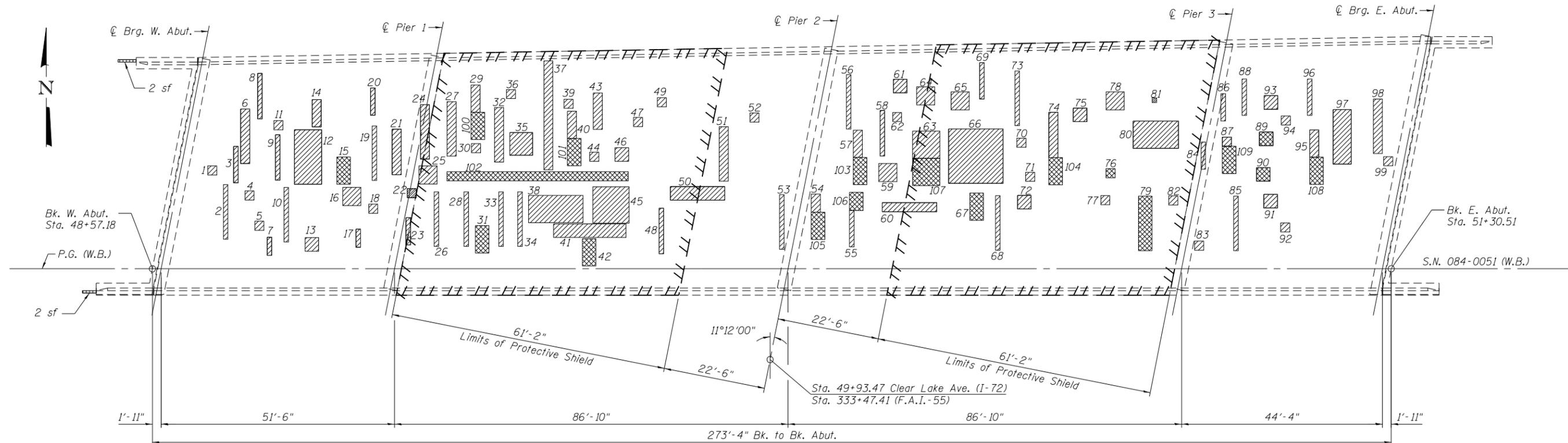
LEGEND

- Deck Slab Repair (Full Depth, Type I)
- Deck Slab Repair (Full Depth, Type II)
- Deck Slab Repair (Partial)
- Protective Shield

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	0.9
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	26.0
Protective Shield	Sq. Yd.	759

Notes:
Areas of deck repairs shown are estimated. The Engineer shall document actual locations of deck repairs on As-Built Plans.
Quantity listed for Deck Slab Repair (Partial) is for information only. See Bridge Deck Microsilica Concrete Overlay Special Provisions.



DECK REPAIR PLAN
(S.N. 084-0051 WB)

ANTICIPATED DECK SLAB REPAIR
S.N. 084-0051 (W.B.)

PATCH NO.	LENGTH (FT.)	WIDTH (FT.)	AREA (SQ. YD.)
1	2	2	0.4
2	1	12	1.3
3	1	8	0.9
4	2	2	0.4
5	2	2	0.4
6	2	12	2.7
7	1	4	0.4
8	1	10	1.1
9	1	10	1.1
10	1	12	1.3
11	2	2	0.4
12	6	12	8.0
13	3	3	1.0
14	2	6	1.3
15	3	6	2.0
16	4	4	1.8
17	1	4	0.4
18	2	2	0.4
19	1	12	1.3
20	1	6	0.7
21	2	10	2.2
22	2	2	0.4
23	1	6	0.7
24	2	12	2.7
25	4	4	1.8
26	1	12	1.3
27	2	12	2.7
28	1	12	1.3
29	2	6	1.3
30	2	2	0.4
31	3	6	2.0
32	2	12	2.7
33	1	12	1.3
34	1	12	1.3
35	5	5	2.8

Continued

ANTICIPATED DECK SLAB REPAIR
S.N. 084-0051 (W.B.)

PATCH NO.	LENGTH (FT.)	WIDTH (FT.)	AREA (SQ. YD.)
36	2	2	0.4
37	2	24	5.3
38	12	6	8.0
39	2	2	0.4
40	2	6	1.3
41	16	3	5.3
42	3	6	2.0
43	2	8	1.8
44	2	2	0.4
45	8	8	7.1
46	3	3	1.0
47	2	2	0.4
48	1	10	1.1
49	2	2	0.4
50	12	3	4.0
51	2	12	2.7
52	2	2	0.4
53	1	12	1.3
54	2	4	0.9
55	1	8	0.9
56	1	12	1.3
57	2	6	1.3
58	1	10	1.1
59	4	4	1.8
60	12	2	2.7
61	3	3	1.0
62	2	2	0.4
63	6	6	4.0
64	4	4	1.8
65	4	4	1.8
66	12	12	16.0
67	3	6	2.0
68	1	12	1.3
69	1	8	0.9
70	2	2	0.4

Continued

ANTICIPATED DECK SLAB REPAIR
S.N. 084-0051 (W.B.)

PATCH NO.	LENGTH (FT.)	WIDTH (FT.)	AREA (SQ. YD.)
71	2	2	0.4
72	3	3	1.0
73	1	12	1.3
74	2	10	2.2
75	3	3	1.0
76	2	2	0.4
77	2	2	0.4
78	4	4	1.8
79	3	12	4.0
80	10	6	6.7
81	1	1	0.1
82	2	2	0.4
83	2	2	0.4
84	1	6	0.7
85	1	12	1.3
86	1	6	0.7
87	2	2	0.4
88	1	8	0.9
89	3	3	1.0
90	3	3	1.0
91	3	3	1.0
92	2	2	0.4
93	3	3	1.0
94	2	2	0.4
95	2	6	1.3
96	1	8	0.9
97	4	12	5.3
98	2	12	2.7
99	2	2	0.4
100	3	6	2.0
101	3	6	2.0
102	40	2	8.9
103	3	6	2.0
104	3	6	2.0
105	3	6	2.0

Continued

ANTICIPATED DECK SLAB REPAIR
S.N. 084-0051 (W.B.)

PATCH NO.	LENGTH (FT.)	WIDTH (FT.)	AREA (SQ. YD.)
106	3	4	1.3
107	6	6	4.0
108	3	6	2.0
109	3	6	2.0

Total= 204.1

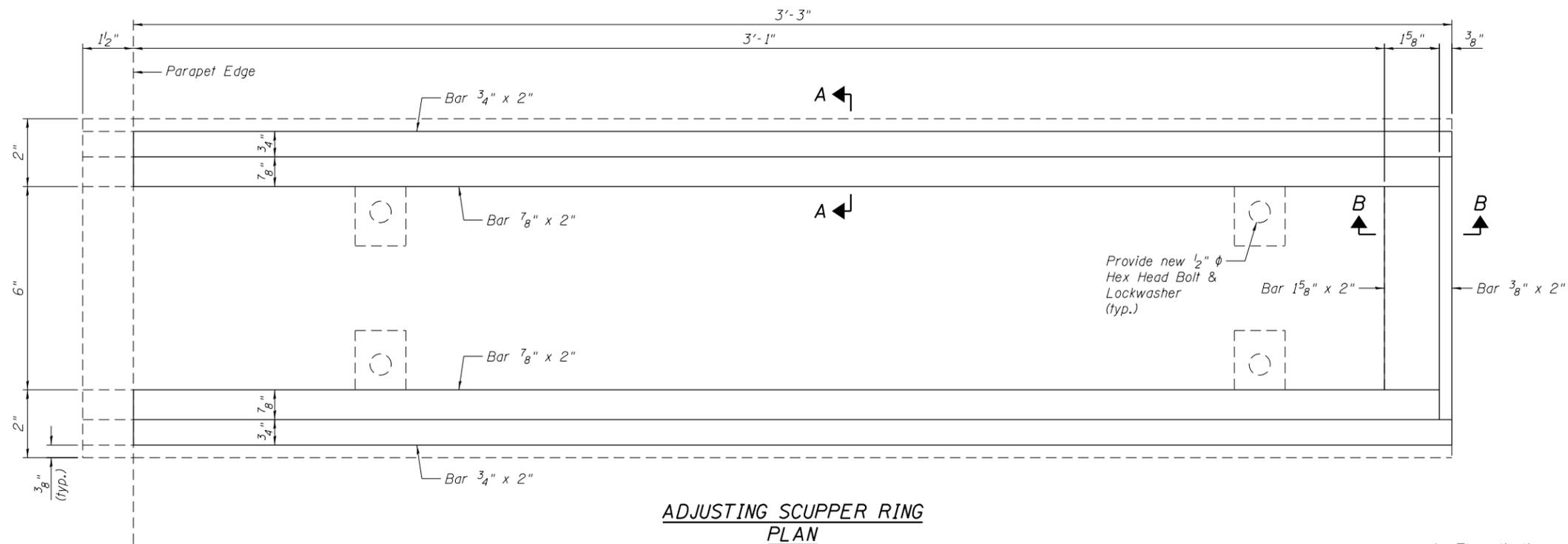
LEGEND

- Deck Slab Repair (Full Depth, Type I)
- Deck Slab Repair (Full Depth, Type II)
- Deck Slab Repair (Partial)
- Protective Shield
- Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	0.6
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	42.2
Protective Shield	Sq. Yd.	759
Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)	Sq. Ft.	4

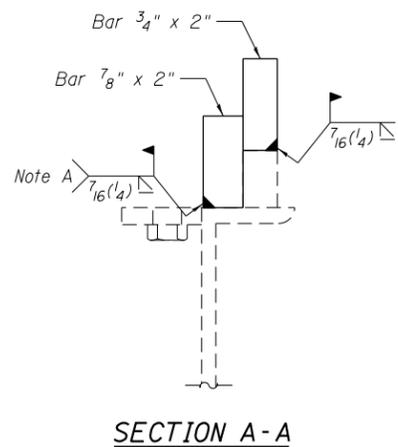
Notes:
 Areas of deck repairs shown are estimated.
 The Engineer shall document actual locations of deck repairs on As-Built Plans.
 Quantity listed for Deck Slab Repair (Partial) is for information only. See Bridge Deck Microsilica Concrete Overlay Special Provisions.



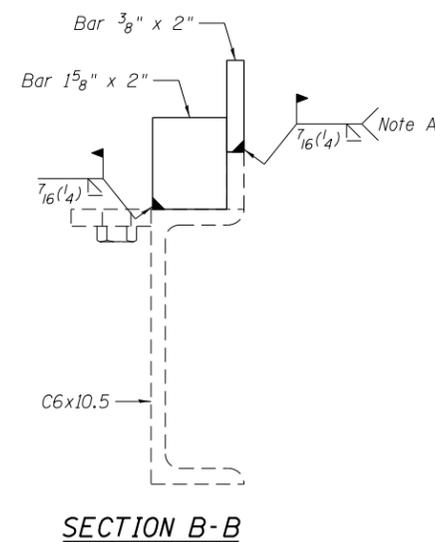
**ADJUSTING SCUPPER RING
PLAN**

NOTES:

1. The adjusting scupper ring shall be galvanized.
2. Bolts shall be 1/2" φ, AASHTO M164 Type I, mechanically galvanized.
3. The contractor shall ensure that no damage is done to existing grates to be reused.
4. Shop plans for proposed adjusting scupper ring shall be submitted for approval prior to fabrication.
5. Cost of all labor and materials necessary to remove existing grates, clean existing scuppers, install adjusting scupper rings and reinstalling grates is included in the cost per unit each for Drainage Scupper to be Adjusted.
6. See Sheet 1 of 22 for Scupper locations.



SECTION A-A

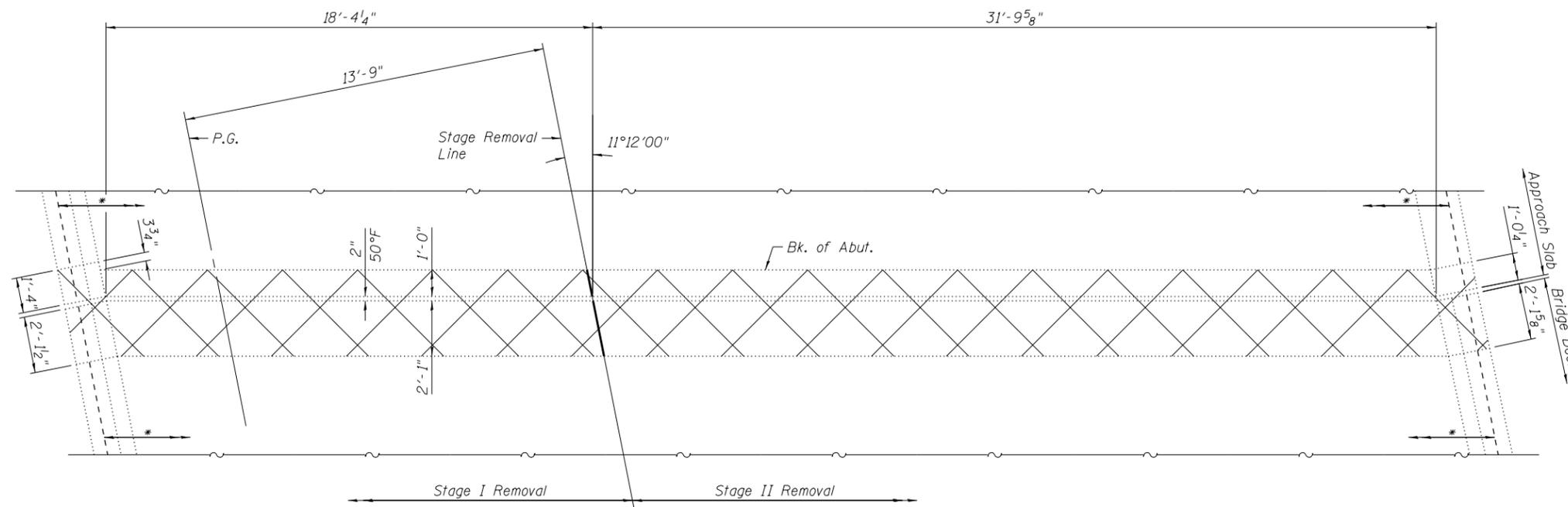


SECTION B-B

Note A: Surface of weld shall be recessed 1/16" Max. or placed flush with inside face of bars to provide clearance for Grate.

BILL OF MATERIAL

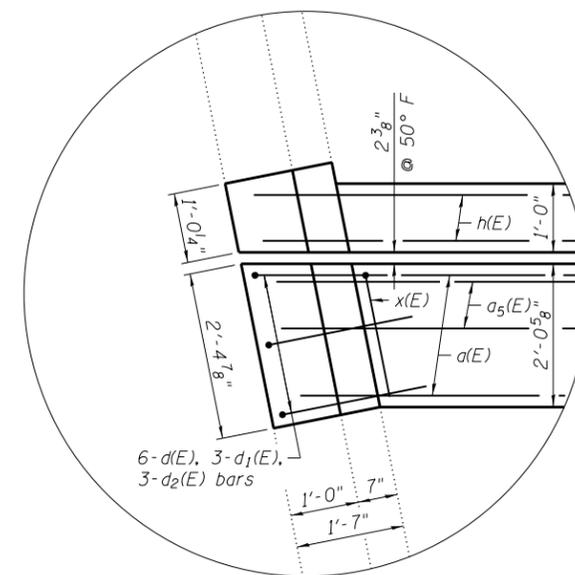
ITEM	UNIT	TOTAL
Drainage Scupper to be Adjusted	Each	2



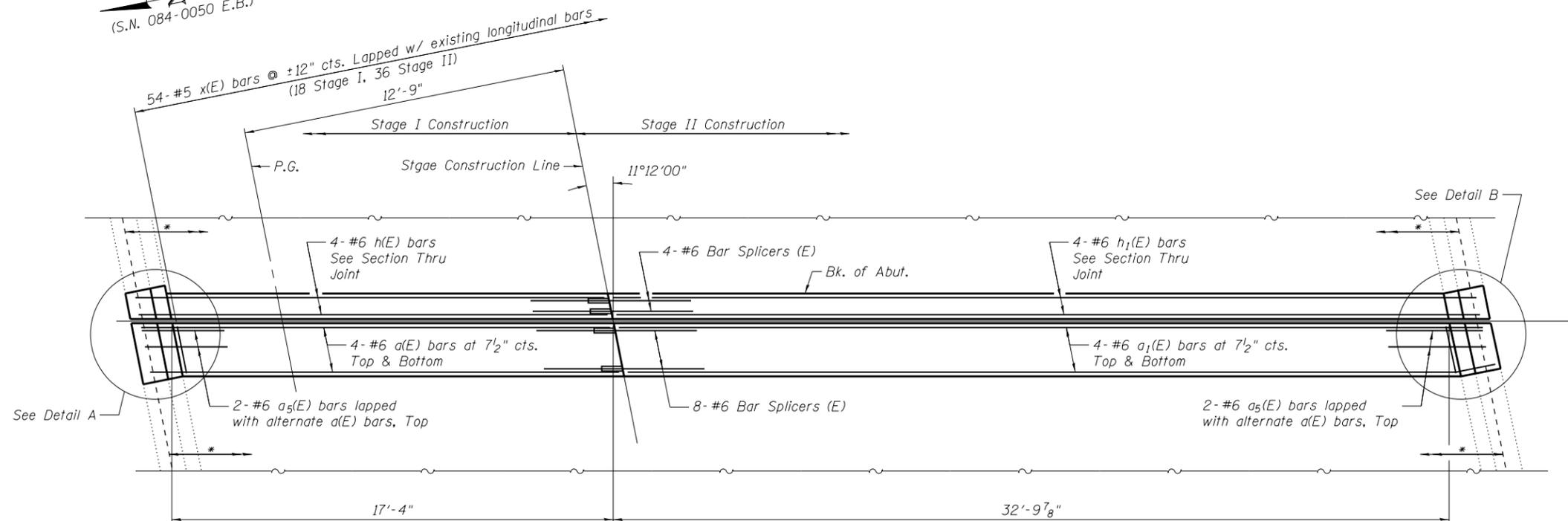
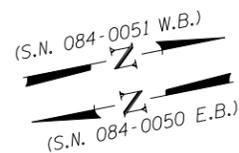
Cross-hatched area indicates limits of Concrete Removal.

EXISTING PLAN AT EXPANSION JOINT

(W. Abut. W.B. Structure, E. Abut. E.B. Structure)

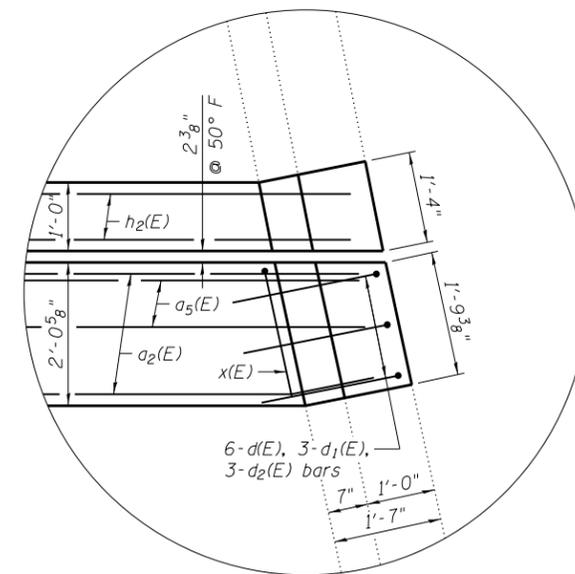


DETAIL A



PROPOSED PLAN AT EXPANSION JOINT

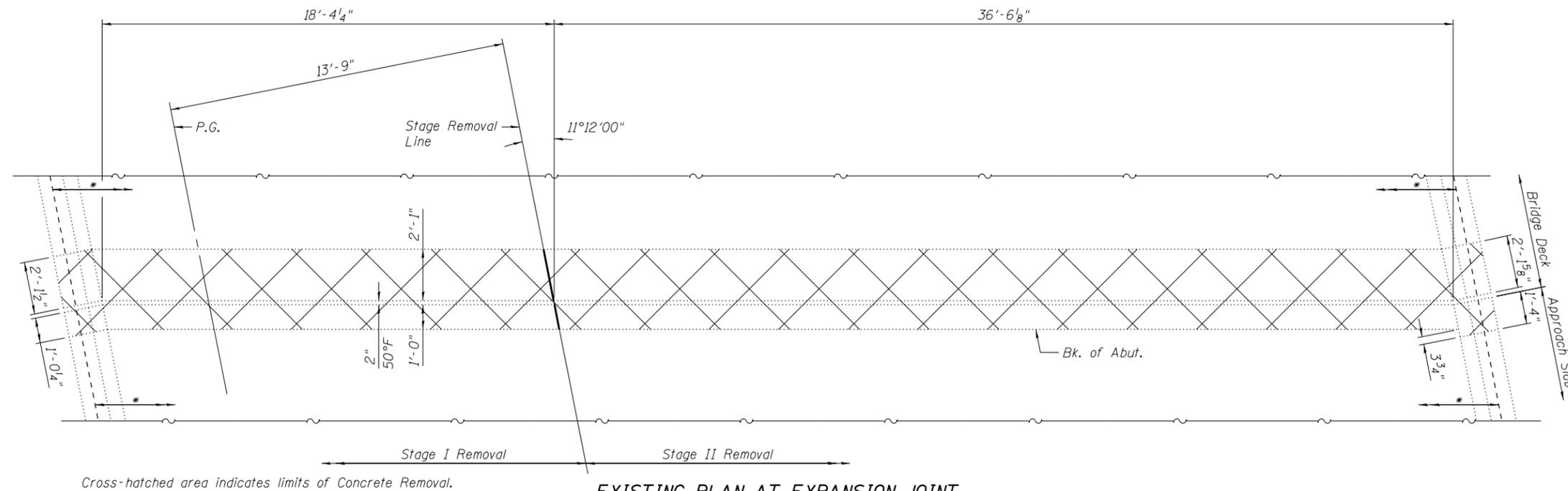
(W. Abut. W.B. Structure, E. Abut. E.B. Structure)



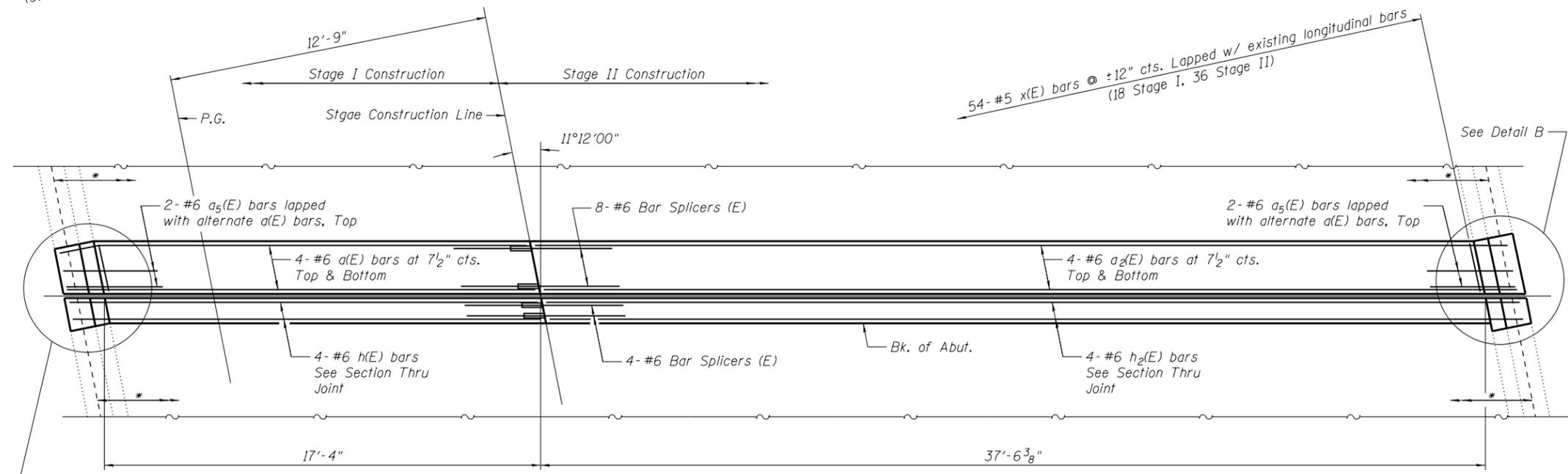
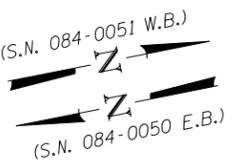
DETAIL B

* Existing longitudinal reinforcement shall be cleaned 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.

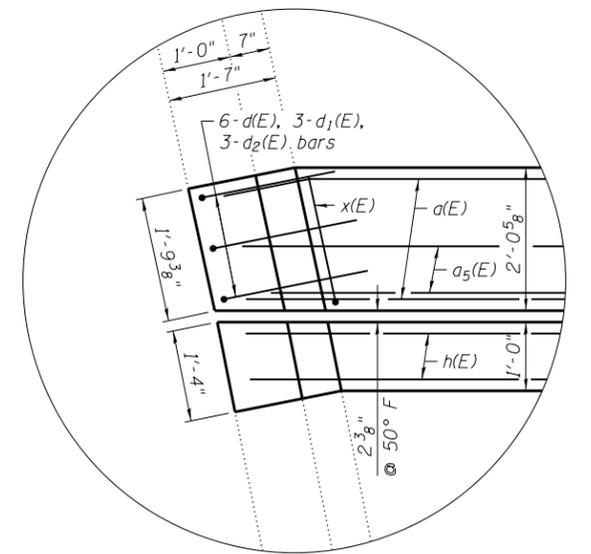
ORIGINAL: CEC UPDATED: L CEC ENGINEERING CORPORATION L ENGINEERING LTD. CONSULTING ENGINEERS ILLINOIS, INC.	JOB = FILE = 0840050-0051-72J97-006.007.008-009-010-011-012-013-014-015-016-017-018-019-020-021-022-023-024-025-026-027-028-029-030-031-032-033-034-035-036-037-038-039-040-041-042-043-044-045-046-047-048-049-050-051-052-053-054-055-056-057-058-059-060-061-062-063-064-065-066-067-068-069-070-071-072-073-074-075-076-077-078-079-080-081-082-083-084-085-086-087-088-089-090-091-092-093-094-095-096-097-098-099-100-101-102-103-104-105-106-107-108-109-110-111-112-113-114-115-116-117-118-119-120-121-122-123-124-125-126-127-128-129-130-131-132-133-134-135-136-137-138-139-140-141-142-143-144-145-146-147-148-149-150-151-152-153-154-155-156-157-158-159-160-161-162-163-164-165-166-167-168-169-170-171-172-173-174-175-176-177-178-179-180-181-182-183-184-185-186-187-188-189-190-191-192-193-194-195-196-197-198-199-200-201-202-203-204-205-206-207-208-209-210-211-212-213-214-215-216-217-218-219-220-221-222-223-224-225-226-227-228-229-230-231-232-233-234-235-236-237-238-239-240-241-242-243-244-245-246-247-248-249-250-251-252-253-254-255-256-257-258-259-260-261-262-263-264-265-266-267-268-269-270-271-272-273-274-275-276-277-278-279-280-281-282-283-284-285-286-287-288-289-290-291-292-293-294-295-296-297-298-299-300-301-302-303-304-305-306-307-308-309-310-311-312-313-314-315-316-317-318-319-320-321-322-323-324-325-326-327-328-329-330-331-332-333-334-335-336-337-338-339-340-341-342-343-344-345-346-347-348-349-350-351-352-353-354-355-356-357-358-359-360-361-362-363-364-365-366-367-368-369-370-371-372-373-374-375-376-377-378-379-380-381-382-383-384-385-386-387-388-389-390-391-392-393-394-395-396-397-398-399-400-401-402-403-404-405-406-407-408-409-410-411-412-413-414-415-416-417-418-419-420-421-422-423-424-425-426-427-428-429-430-431-432-433-434-435-436-437-438-439-440-441-442-443-444-445-446-447-448-449-450-451-452-453-454-455-456-457-458-459-460-461-462-463-464-465-466-467-468-469-470-471-472-473-474-475-476-477-478-479-480-481-482-483-484-485-486-487-488-489-490-491-492-493-494-495-496-497-498-499-500-501-502-503-504-505-506-507-508-509-510-511-512-513-514-515-516-517-518-519-520-521-522-523-524-525-526-527-528-529-530-531-532-533-534-535-536-537-538-539-540-541-542-543-544-545-546-547-548-549-550-551-552-553-554-555-556-557-558-559-560-561-562-563-564-565-566-567-568-569-570-571-572-573-574-575-576-577-578-579-580-581-582-583-584-585-586-587-588-589-590-591-592-593-594-595-596-597-598-599-600-601-602-603-604-605-606-607-608-609-610-611-612-613-614-615-616-617-618-619-620-621-622-623-624-625-626-627-628-629-630-631-632-633-634-635-636-637-638-639-640-641-642-643-644-645-646-647-648-649-650-651-652-653-654-655-656-657-658-659-660-661-662-663-664-665-666-667-668-669-670-671-672-673-674-675-676-677-678-679-680-681-682-683-684-685-686-687-688-689-690-691-692-693-694-695-696-697-698-699-700-701-702-703-704-705-706-707-708-709-710-711-712-713-714-715-716-717-718-719-720-721-722-723-724-725-726-727-728-729-730-731-732-733-734-735-736-737-738-739-740-741-742-743-744-745-746-747-748-749-750-751-752-753-754-755-756-757-758-759-760-761-762-763-764-765-766-767-768-769-770-771-772-773-774-775-776-777-778-779-780-781-782-783-784-785-786-787-788-789-790-791-792-793-794-795-796-797-798-799-800-801-802-803-804-805-806-807-808-809-810-811-812-813-814-815-816-817-818-819-820-821-822-823-824-825-826-827-828-829-830-831-832-833-834-835-836-837-838-839-840-841-842-843-844-845-846-847-848-849-850-851-852-853-854-855-856-857-858-859-860-861-862-863-864-865-866-867-868-869-870-871-872-873-874-875-876-877-878-879-880-881-882-883-884-885-886-887-888-889-890-891-892-893-894-895-896-897-898-899-900-901-902-903-904-905-906-907-908-909-910-911-912-913-914-915-916-917-918-919-920-921-922-923-924-925-926-927-928-929-930-931-932-933-934-935-936-937-938-939-940-941-942-943-944-945-946-947-948-949-950-951-952-953-954-955-956-957-958-959-960-961-962-963-964-965-966-967-968-969-970-971-972-973-974-975-976-977-978-979-980-981-982-983-984-985-986-987-988-989-990-991-992-993-994-995-996-997-998-999-1000	DESIGNED - AAN MTH CHECKED - MDC VPT DRAWN - SJS DAS CHECKED - MDC MTH	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXPANSION JOINT REPLACEMENT DETAILS STRUCTURE NO. 084-0050 (EB) & 0051 (WB)	F.A.P. RT. = 67	SECTION = (84-3-2) RS-2, BP, BDR	COUNTY = SANGAMON	TOTAL SHEETS = 98	SHEET NO. = 66
	DATE = 12/10/2018	SHEET NO. = 6 OF 22 SHEETS	CONTRACT NO. 72J97			ILLINOIS FED. AID PROJECT				



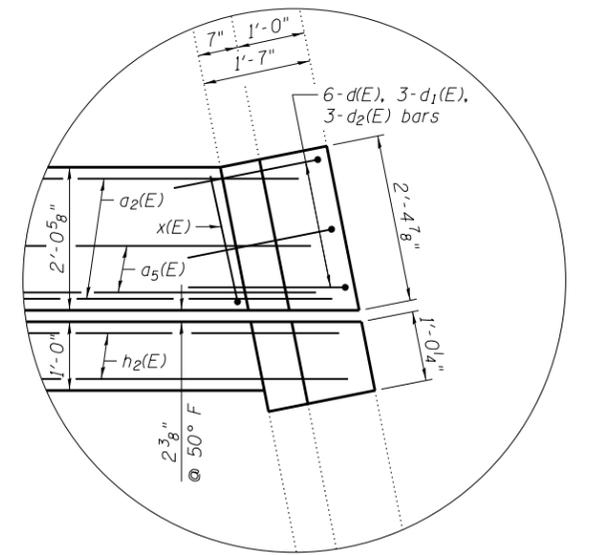
EXISTING PLAN AT EXPANSION JOINT
(E. Abut. W.B. Structure, W. Abut. E.B. Structure)



PROPOSED PLAN AT EXPANSION JOINT
(E. Abut. W.B. Structure, W. Abut. E.B. Structure)



DETAIL A



DETAIL B

* Existing longitudinal reinforcement shall be cleaned 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.

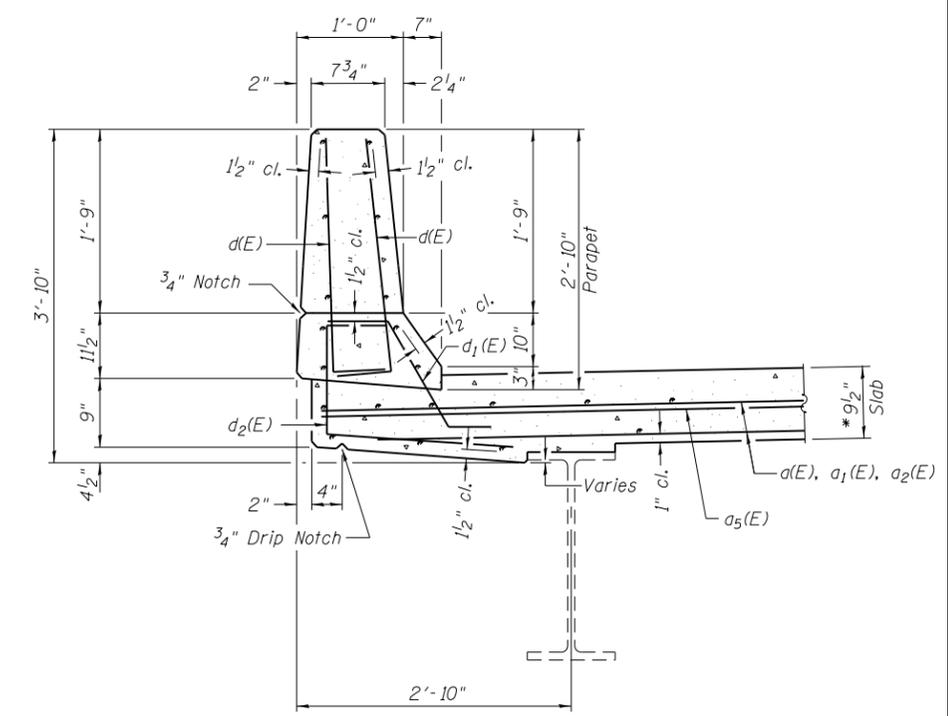
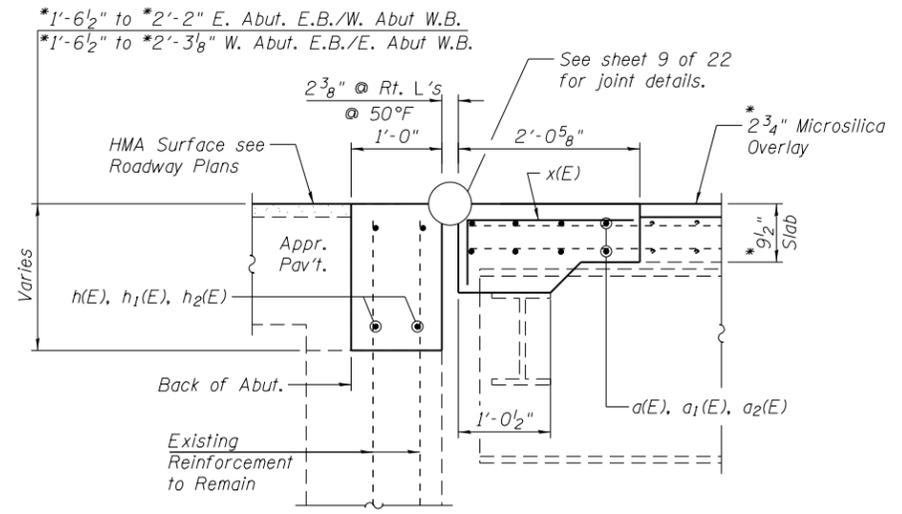
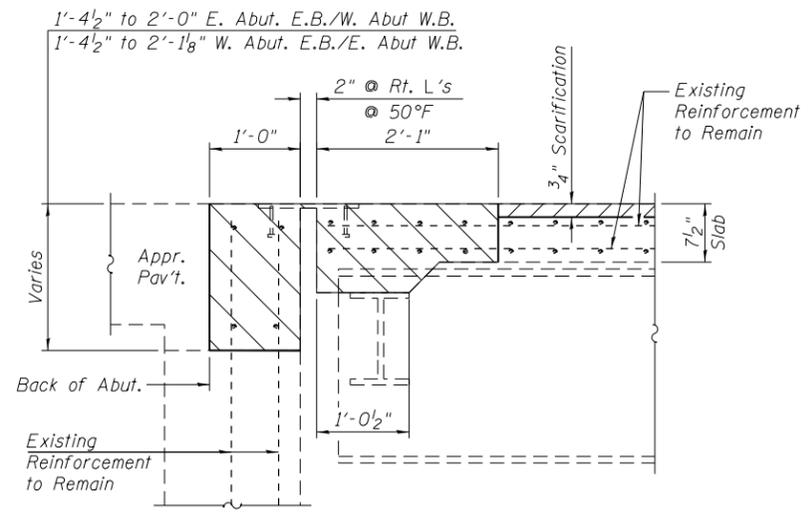
ORIGINAL: CEC
UPDATED: E

JOB =	DESIGNED - AAN MTH	REVISOR -	
FILE = 0840050-0051-72J97-006-007-008-009-010-011-012-013-014-015-016-017-018-019-020-021-022-023-024-025-026-027-028-029-030-031-032-033-034-035-036-037-038-039-040-041-042-043-044-045-046-047-048-049-050-051-052-053-054-055-056-057-058-059-060-061-062-063-064-065-066-067-068-069-070-071-072-073-074-075-076-077-078-079-080-081-082-083-084-085-086-087-088-089-090-091-092-093-094-095-096-097-098-099-100-101-102-103-104-105-106-107-108-109-110-111-112-113-114-115-116-117-118-119-120-121-122-123-124-125-126-127-128-129-130-131-132-133-134-135-136-137-138-139-140-141-142-143-144-145-146-147-148-149-150-151-152-153-154-155-156-157-158-159-160-161-162-163-164-165-166-167-168-169-170-171-172-173-174-175-176-177-178-179-180-181-182-183-184-185-186-187-188-189-190-191-192-193-194-195-196-197-198-199-200-201-202-203-204-205-206-207-208-209-210-211-212-213-214-215-216-217-218-219-220-221-222-223-224-225-226-227-228-229-230-231-232-233-234-235-236-237-238-239-240-241-242-243-244-245-246-247-248-249-250-251-252-253-254-255-256-257-258-259-260-261-262-263-264-265-266-267-268-269-270-271-272-273-274-275-276-277-278-279-280-281-282-283-284-285-286-287-288-289-290-291-292-293-294-295-296-297-298-299-300-301-302-303-304-305-306-307-308-309-310-311-312-313-314-315-316-317-318-319-320-321-322-323-324-325-326-327-328-329-330-331-332-333-334-335-336-337-338-339-340-341-342-343-344-345-346-347-348-349-350-351-352-353-354-355-356-357-358-359-360-361-362-363-364-365-366-367-368-369-370-371-372-373-374-375-376-377-378-379-380-381-382-383-384-385-386-387-388-389-390-391-392-393-394-395-396-397-398-399-400-401-402-403-404-405-406-407-408-409-410-411-412-413-414-415-416-417-418-419-420-421-422-423-424-425-426-427-428-429-430-431-432-433-434-435-436-437-438-439-440-441-442-443-444-445-446-447-448-449-450-451-452-453-454-455-456-457-458-459-460-461-462-463-464-465-466-467-468-469-470-471-472-473-474-475-476-477-478-479-480-481-482-483-484-485-486-487-488-489-490-491-492-493-494-495-496-497-498-499-500-501-502-503-504-505-506-507-508-509-510-511-512-513-514-515-516-517-518-519-520-521-522-523-524-525-526-527-528-529-530-531-532-533-534-535-536-537-538-539-540-541-542-543-544-545-546-547-548-549-550-551-552-553-554-555-556-557-558-559-560-561-562-563-564-565-566-567-568-569-570-571-572-573-574-575-576-577-578-579-580-581-582-583-584-585-586-587-588-589-590-591-592-593-594-595-596-597-598-599-600-601-602-603-604-605-606-607-608-609-610-611-612-613-614-615-616-617-618-619-620-621-622-623-624-625-626-627-628-629-630-631-632-633-634-635-636-637-638-639-640-641-642-643-644-645-646-647-648-649-650-651-652-653-654-655-656-657-658-659-660-661-662-663-664-665-666-667-668-669-670-671-672-673-674-675-676-677-678-679-680-681-682-683-684-685-686-687-688-689-690-691-692-693-694-695-696-697-698-699-700-701-702-703-704-705-706-707-708-709-710-711-712-713-714-715-716-717-718-719-720-721-722-723-724-725-726-727-728-729-730-731-732-733-734-735-736-737-738-739-740-741-742-743-744-745-746-747-748-749-750-751-752-753-754-755-756-757-758-759-760-761-762-763-764-765-766-767-768-769-770-771-772-773-774-775-776-777-778-779-780-781-782-783-784-785-786-787-788-789-790-791-792-793-794-795-796-797-798-799-800-801-802-803-804-805-806-807-808-809-810-811-812-813-814-815-816-817-818-819-820-821-822-823-824-825-826-827-828-829-830-831-832-833-834-835-836-837-838-839-840-841-842-843-844-845-846-847-848-849-850-851-852-853-854-855-856-857-858-859-860-861-862-863-864-865-866-867-868-869-870-871-872-873-874-875-876-877-878-879-880-881-882-883-884-885-886-887-888-889-890-891-892-893-894-895-896-897-898-899-900-901-902-903-904-905-906-907-908-909-910-911-912-913-914-915-916-917-918-919-920-921-922-923-924-925-926-927-928-929-930-931-932-933-934-935-936-937-938-939-940-941-942-943-944-945-946-947-948-949-950-951-952-953-954-955-956-957-958-959-960-961-962-963-964-965-966-967-968-969-970-971-972-973-974-975-976-977-978-979-980-981-982-983-984-985-986-987-988-989-990-991-992-993-994-995-996-997-998-999-1000	DATE = 12/10/2018	CHECKED - MDC MTH	REVISOR -
	DRAWN - SJS DAS	REVISOR -	
	CHECKED - MDC MTH	REVISOR -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXPANSION JOINT REPLACEMENT DETAILS
STRUCTURE NO. 084-0050 (EB) & 0051 (WB)

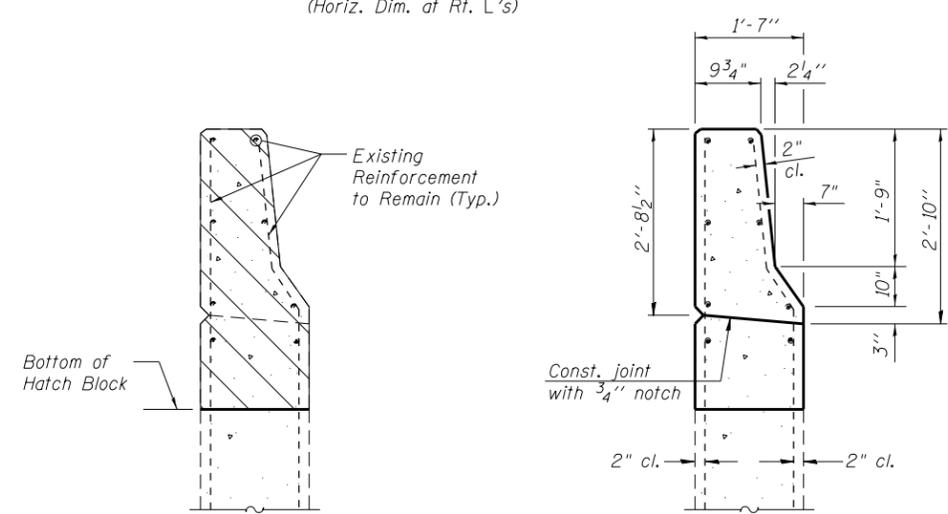
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
67	(84-3-2) RS-2, BP, BDR	SANGAMON	98	67
CONTRACT NO. 72J97				



SECTION THRU JOINT
(Showing Removal)
(Horiz. Dim. at Rt. L's)

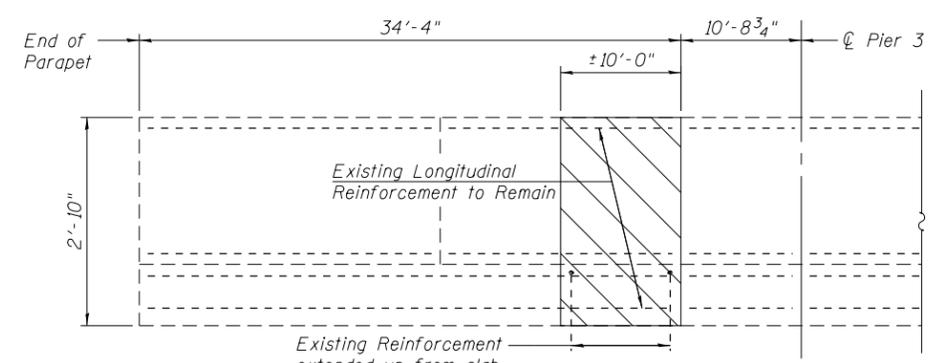
SECTION THRU JOINT
(Showing Proposed)
(Horiz. Dim. at Rt. L's)

SECTION THRU PARAPET

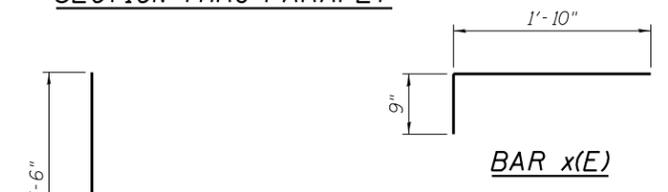


SECTION THRU APPROACH PARAPET
(Showing Removal)

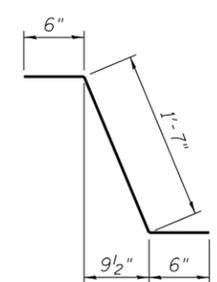
SECTION THRU APPROACH PARAPET
(Showing Proposed)



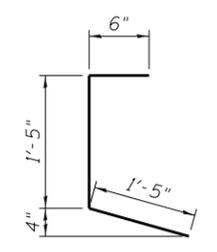
INSIDE ELEVATION OF MEDIAN PARAPET
(Showing Removal-S.N. 084-0051 WB)



BAR d(E)



BAR d1(E)



BAR d2(E)

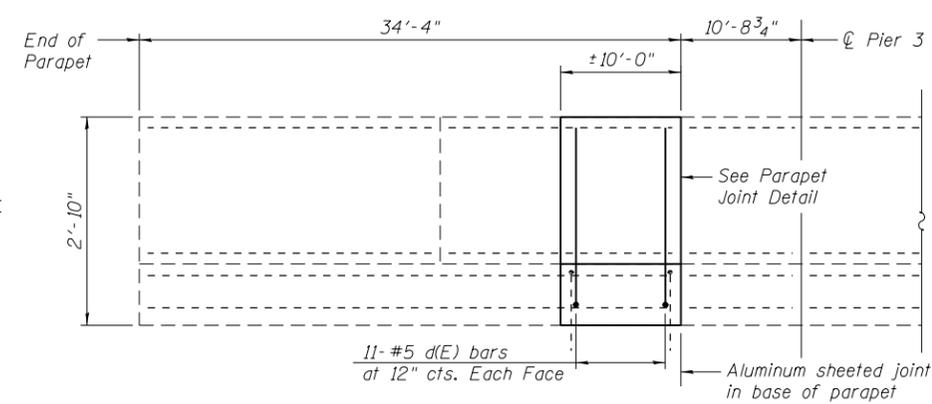
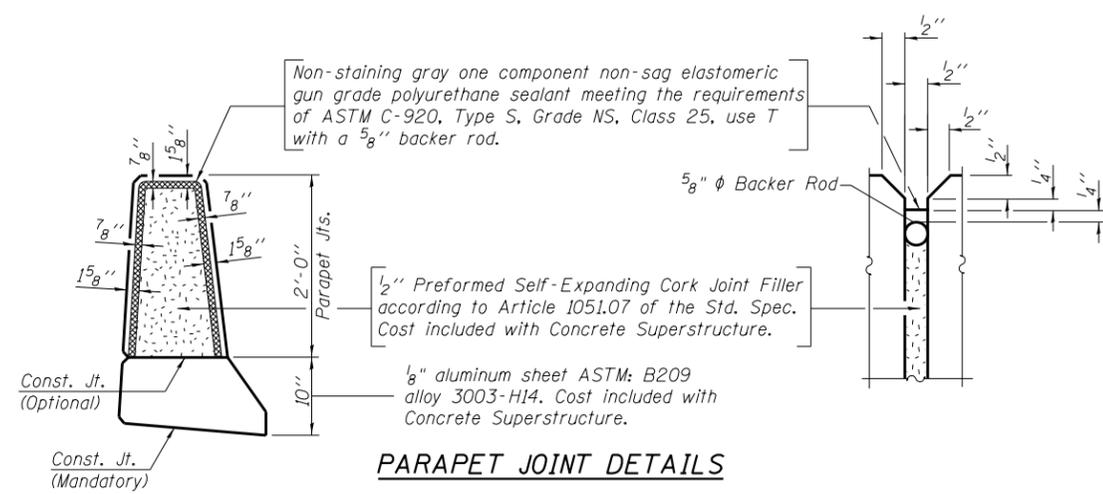
SUPERSTRUCTURE
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	32	#6	18'-5"	—
a1(E)	16	#6	33'-11"	—
a2(E)	16	#6	38'-7"	—
a5(E)	16	#6	4'-6"	—
d(E)	70	#5	3'-0"	—
d1(E)	24	#5	2'-7"	┌
d2(E)	24	#4	3'-4"	┌
h(E)	16	#6	18'-5"	—
h1(E)	8	#6	33'-11"	—
h2(E)	8	#6	38'-7"	—
x(E)	216	#5	2'-7"	—
Reinforcement Bars, Epoxy Coated			Pound	4,980
Concrete Superstructure			Cu. Yd.	41.0
Concrete Removal			Cu. Yd.	36.0

Hatched areas indicate limits of Concrete Removal.

Existing reinforcement to remain shall be cleaned and incorporated into the new construction. Cost included with Concrete Removal.

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.



INSIDE ELEVATION OF MEDIAN PARAPET
(Showing Proposed-S.N. 084-0051 WB)

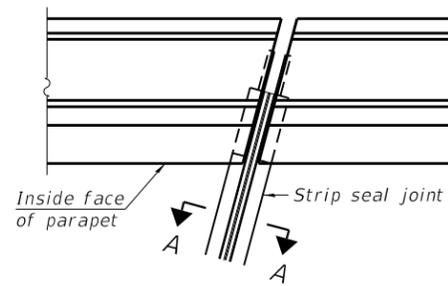
ORIGINAL:	DESIGNED - AAN MTH	REVISOR -
UPDATED:	CHECKED - MDC VPT	REVISOR -
FILE = 0840050-0051-72J97-006.007-008-Joint	DRAWN - SJS DAS	REVISOR -
DATE = 12/10/2018	CHECKED - MDC MTH	REVISOR -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PARAPET AND JOINT REPLACEMENT DETAILS
STRUCTURE NO. 084-0050 (EB) & 0051 (WB)

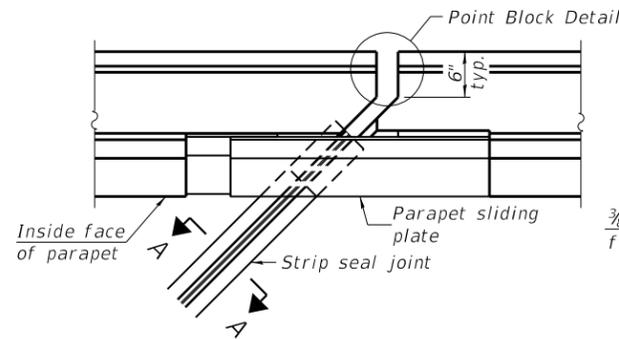
SHEET NO. 8 OF 22 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
67	(84-3-2) RS-2, BP, BDR	SANGAMON	98	68
CONTRACT NO. 72J97				
ILLINOIS FED. AID PROJECT				

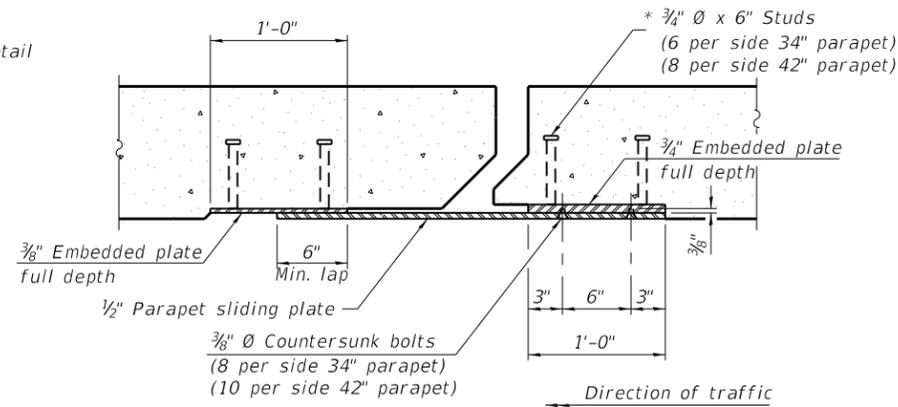


FOR SKEWS $\leq 30^\circ$

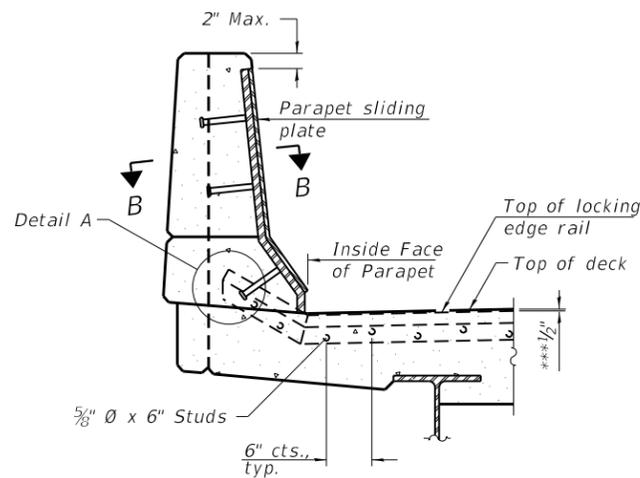
PLAN AT PARAPET



FOR SKEWS $> 30^\circ$

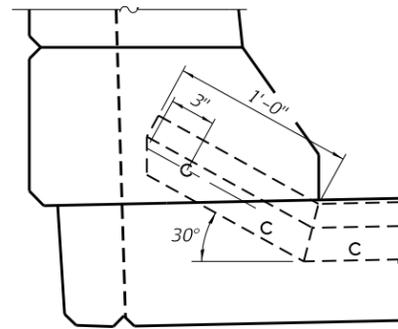


SECTION B-B

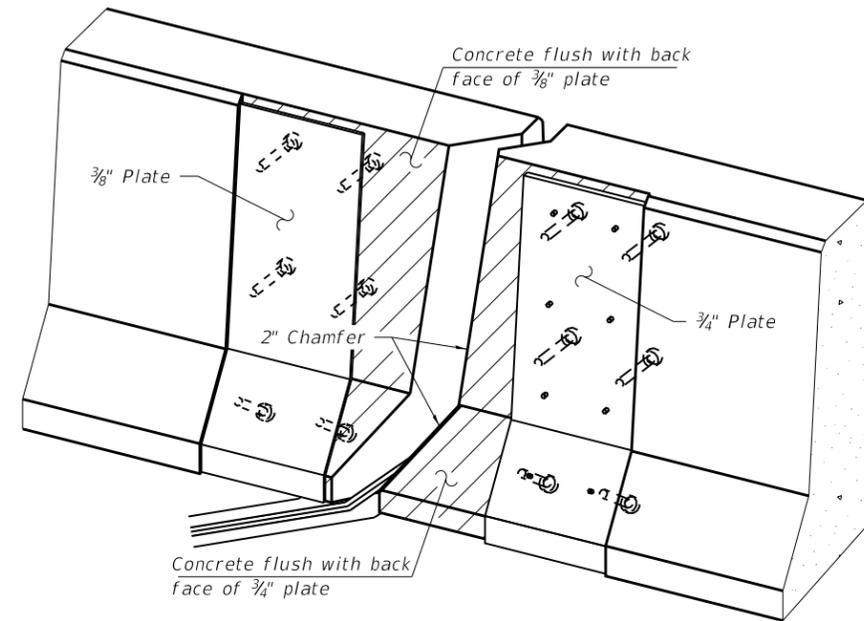


ELEVATION AT PARAPET

(Skews $> 30^\circ$ shown. Skews $\leq 30^\circ$ similar except as shown in plan view.)



DETAIL A



TRIMETRIC VIEW
(Showing embedded plates only)

Notes:

The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the locking edge rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.

The locking edge rails depicted are configured for typical applications and are conceptual only. The actual configuration of the locking edge rails and matching strip seal may vary from manufacturer to manufacturer provided they fit the application and meet the minimum anchorage shown. Flanged edge rails, however, will not be allowed. Locking edge rails may exceed the 4 1/2" maximum depth provided the anchorage system is revised according to the manufacturer's recommendation.

The manufacturer's recommended installation methods shall be followed.

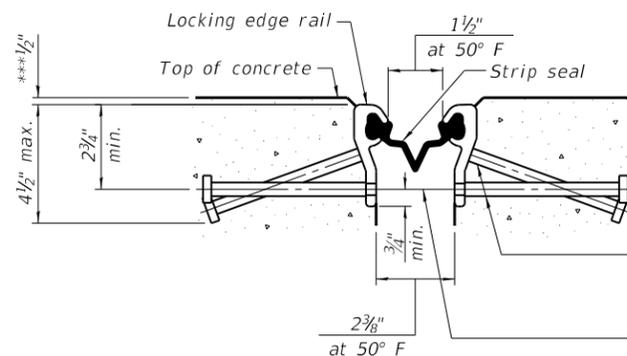
All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

The Maximum space between locking edge rail segments shall be 3/16" and sealed with a suitable sealant; however, any rail joint within 10' measured perpendicular to the face of the curb or parapet shall be welded as shown in the locking edge rail splice detail.

Cost of parapet sliding plates, embedded plates, and anchorage studs included with Preformed Joint Strip Seal.

34" F-shape barrier shown, 42" F-shape similar as noted. The concrete opening below the strip seal will vary based on the locking edge rail chosen by the Contractor. Deck and parapet lengths shown elsewhere in the plans are dimensioned to the concrete opening, not the joint opening, and are based on the rolled locking edge rail. If the Contractor elects to use a different locking edge rail, dimensional adjustments may be required. One exception to this would be the strip seal joint at the end of the precast bridge approach slab. For these cases the pavement connector length shall be adjusted, not the length of the bridge approach slab.

***Prior to 1/4" grinding.



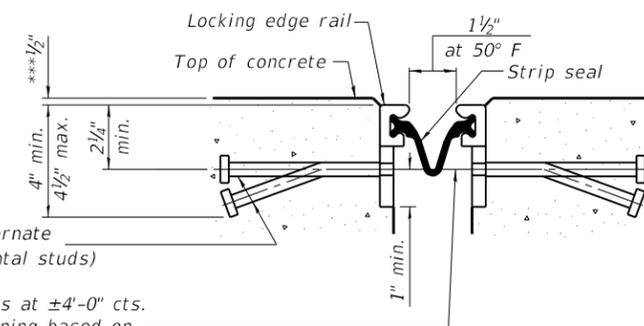
SHOWING ROLLED RAIL JOINT

* 5/8" ϕ x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)

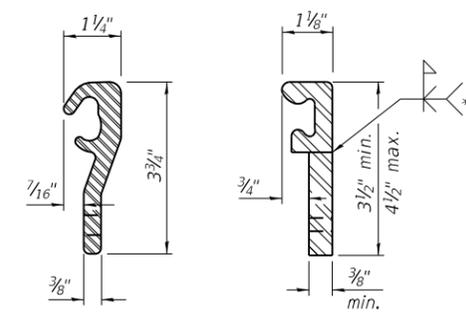
3/8" ϕ threaded rods in 7/16" ϕ holes at ± 4 -0" cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

SECTION A-A

* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.



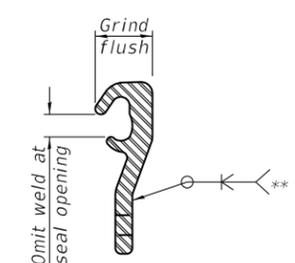
SHOWING WELDED RAIL JOINT



LOCKING EDGE RAILS

LOCKING EDGE RAILS

** Back gouge not required if complete joint penetration is verified by mock-up.



LOCKING EDGE RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue. Rolled rail shown, welded rail similar.

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	218

EJ-SS

8-11-17

ORIGINAL: CEC
 UPDATED: E
 CUMMINS ENGINEERING CORPORATION
 CONSULTING ENGINEERS

JOB =
 FILE = 0840050-0051-72J97-009-Joint.dgn
 DATE = 12/10/2018

DESIGNED - AAN MTH
 CHECKED - MDC VPT
 DRAWN - SJS DAS
 CHECKED - MDC MTH

REVISED -
 REVISED -
 REVISED -
 REVISED -

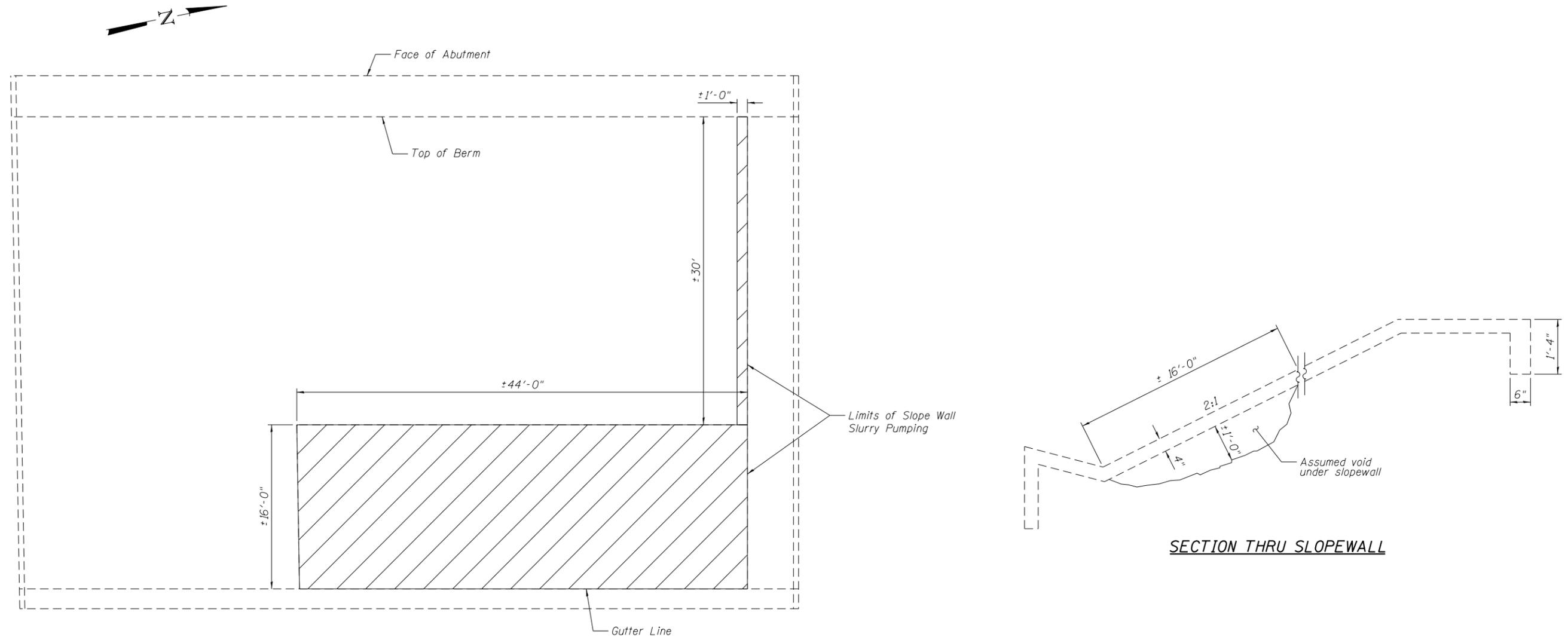
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL
 STRUCTURE NO. 084-0050 (EB) & 0051 (WB)

SHEET NO. 9 OF 22 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
67	(84-3-2) RS-2, BP, BDR	SANGAMON	98	69
				CONTRACT NO. 72J97

ILLINOIS FED. AID PROJECT



PLAN
WEST SLOPEWALL - S.N. 084-0050 EB

SECTION THRU SLOPEWALL

Notes:

Voided area under slope wall shall be filled with Slope Wall Slurry Pumping as directed by the Engineer.

Hatched areas indicate assumed limits of Slope Wall Slurry Pumping. Actual limits to be determined by the Engineer.

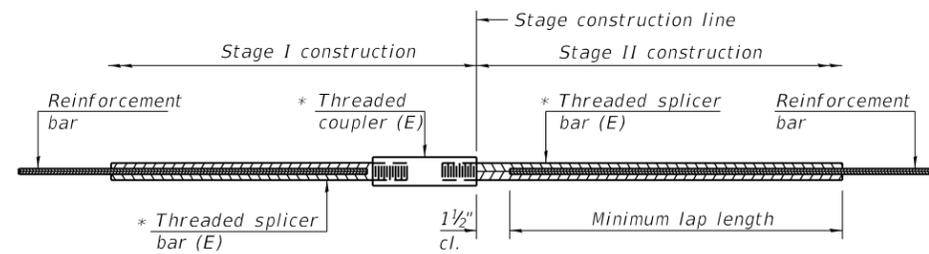
All silt, sand and other debris in gutter at bottom of slope wall to be removed. Cost included with Slope Wall Slurry Pumping.

Small areas of slope wall may need to be removed to access voids. Cost of removal and replacement of slope wall shall be included with Slope Wall Slurry Pumping.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Slope Wall Slurry Pumping	Cu. Yd.	27.2

ORIGINAL: CEC Consulting Engineering Corporation UPDATED: LE ENGINEERING LTD. Consulting Engineers <small>Ill. No. 084-0050</small>	JOB =	DESIGNED - AAN MTH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SLOPEWALL REPAIRS STRUCTURE NO. 084-0050 (EB) & 0051 (WB)	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	FILE = 0840050-0051-72J97-010-SlopeWall.dwg	CHECKED - MDC VPT	REVISED -			67	(84-3-2) RS-2, BP, BDR	SANGAMON	98	70
DATE = 12/10/2018	DRAWN - SJS DAS	REVISED -		SHEET NO. 10 OF 22 SHEETS		CONTRACT NO. 72J97				
	CHECKED - MDC MTH	REVISED -				ILLINOIS FED. AID PROJECT				

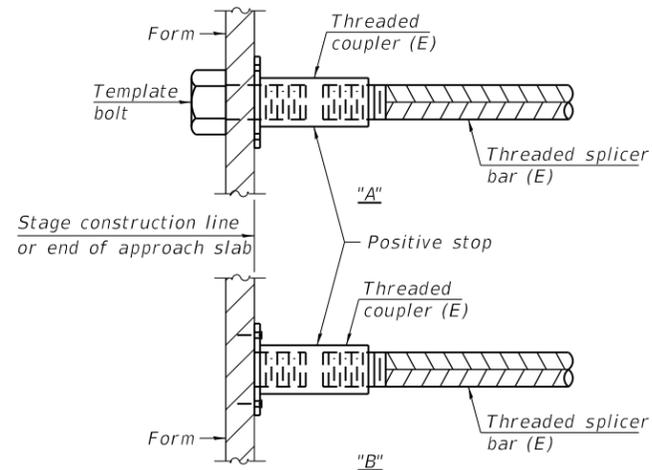


STANDARD BAR SPLICER ASSEMBLY

Threaded splicer bar length = min. lap length + 1 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 lap length
Hatch Block	#6	16	4'-0"
End of Deck	#6	32	3'-7"

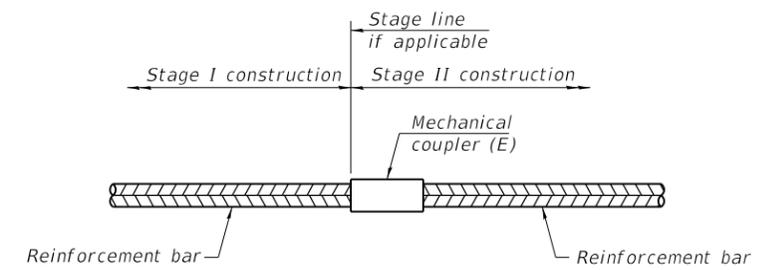


INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.

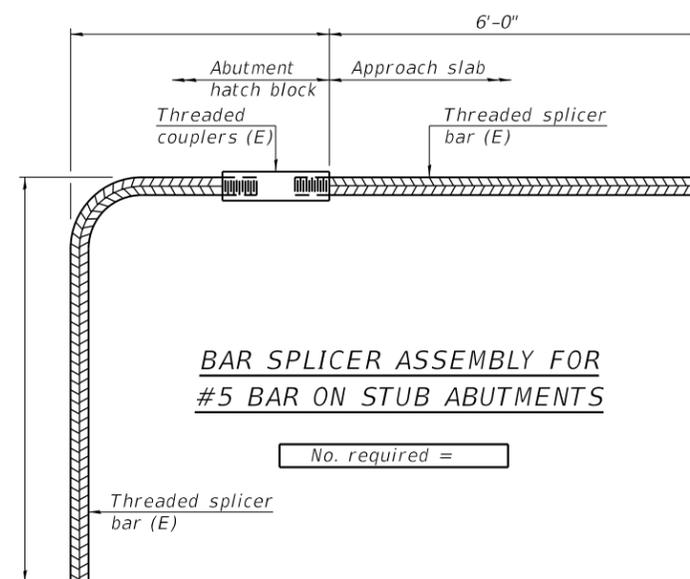
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. 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

2-17-2017

ORIGINAL: CEC
 UPDATED: CEC
 CEC CONSULTING ENGINEERS

JOB =	DESIGNED - AAN MTH	REVISD -
FILE = 0840050-0051-72J97-011-Splicer.dgn	CHECKED - MDC VPT	REVISD -
DATE = 12/10/2018	DRAWN - SJS DAS	REVISD -
	CHECKED - MDC MTH	REVISD -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
 STRUCTURE NO. 084-0050 (EB) & 0051 (WB)

SHEET NO. 11 OF 22 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
67	(84-3-2) RS-2, BP, BDR	SANGAMON	98	71
CONTRACT NO. 72J97				

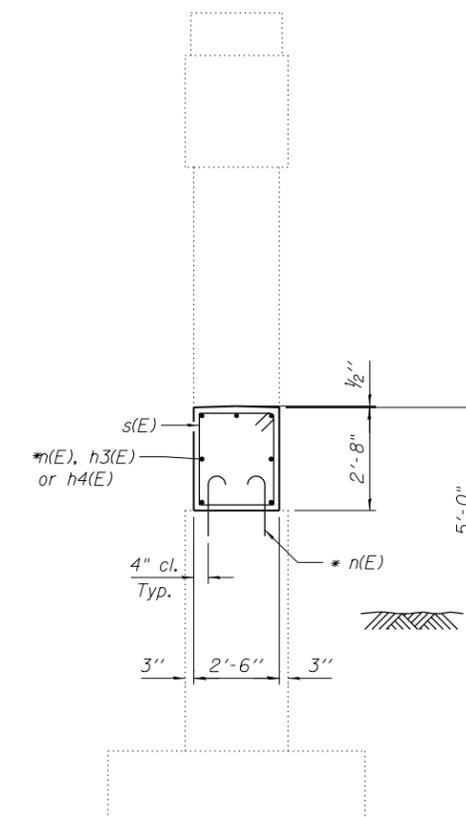
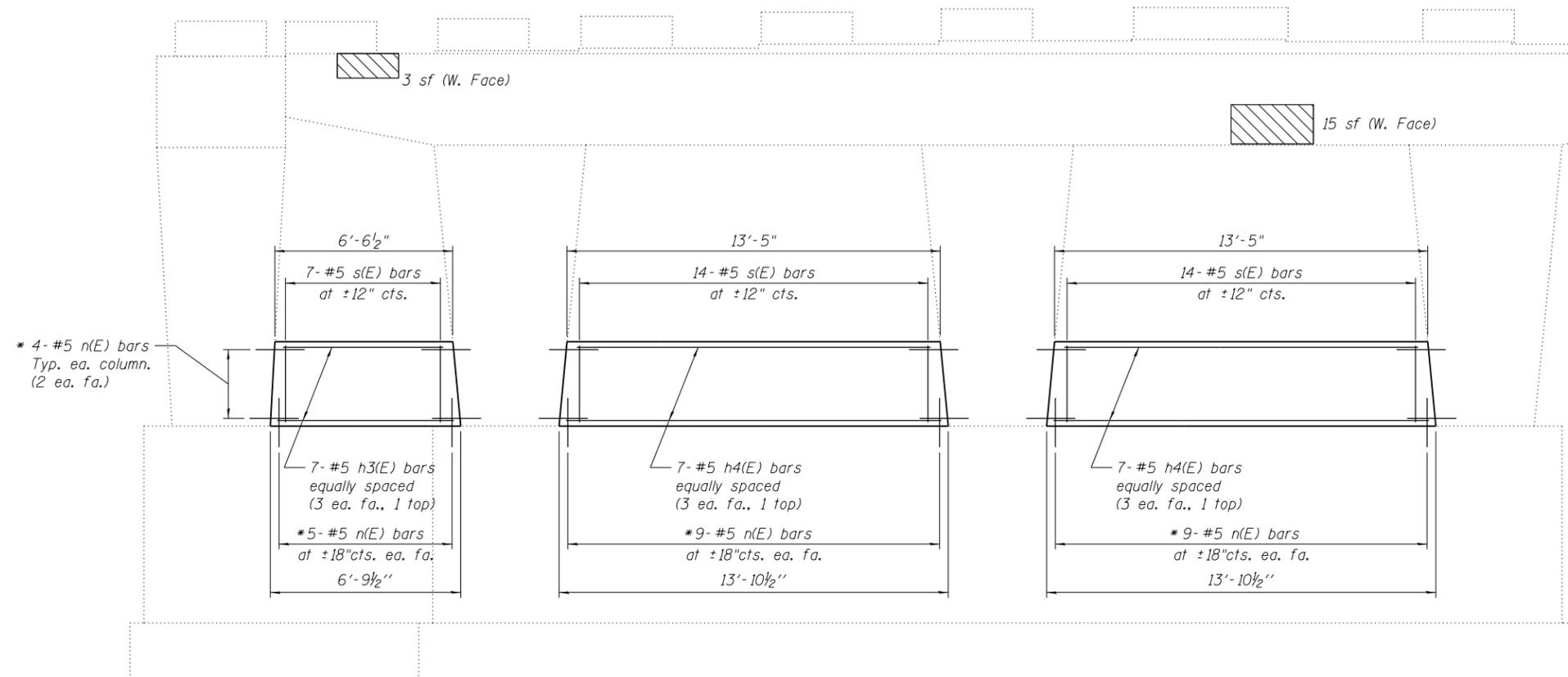
ILLINOIS FED. AID PROJECT

LEGEND

-  Structural Repair of Concrete (Depth Equal To or Less Than 5in.)
- sf Square Feet

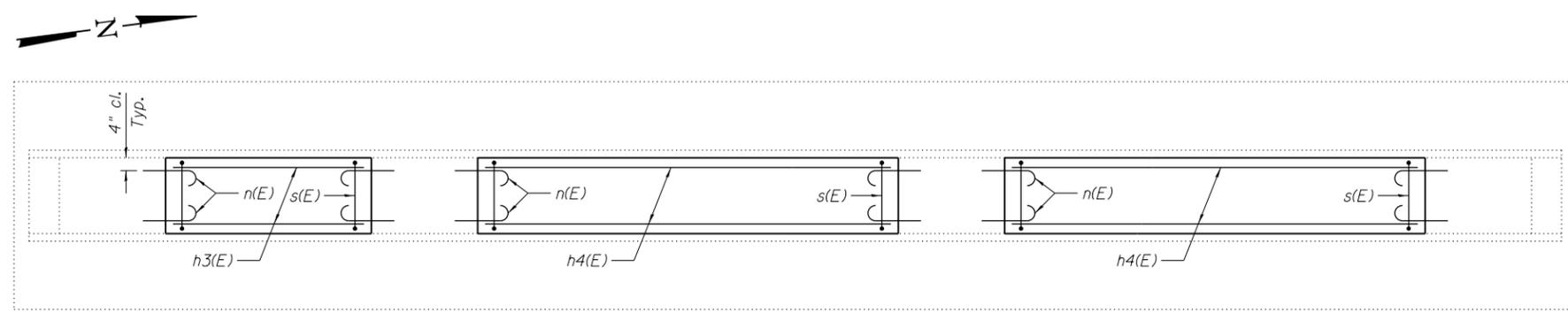
NOTES

The cost of epoxy grouting threaded rods shall be included with Reinforcement Bars, Epoxy Coated.
 Repair of existing piers shall include but may not be limited to the areas shown.
 The actual areas to be repaired shall be determined by the Engineer at time of construction.



ELEVATION
(Looking West)

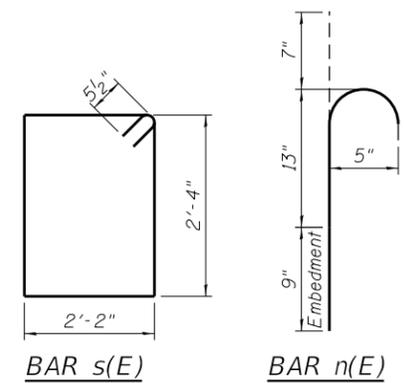
* Epoxy grout n(E) bars in 9" min. holes according to Article 584 of the Standard Specifications.



PLAN

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h3(E)	7	#5	6'-1"	—
h4(E)	14	#5	13'-1"	—
n(E)	70	#5	2'-5"	⌒
s(E)	35	#5	9'-11"	□
Concrete Structures		Cu. Yd.	8.4	
Reinforcement Bars, Epoxy Coated		Pound	730	
Structural Repair of Concrete (Depth ≤ 5 Inches)		Sq. Ft.	18	



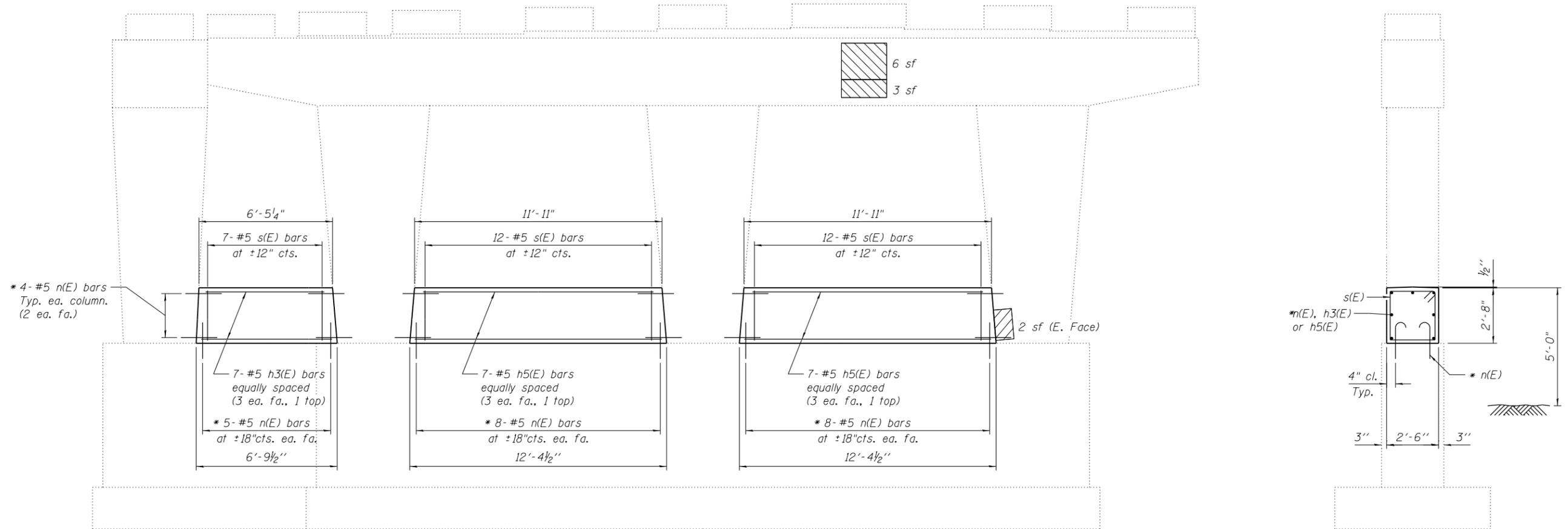
LEGEND

 Structural Repair of Concrete (Depth Equal To or Less Than 5in.)

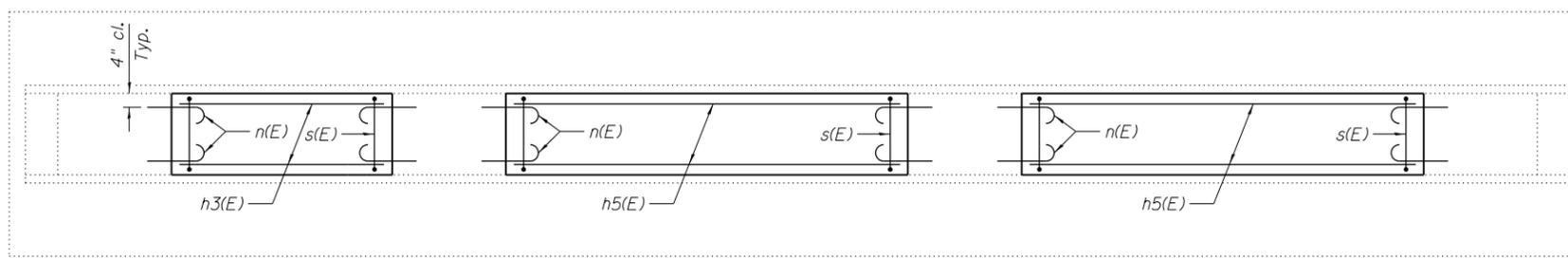
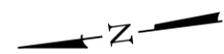
sf Square Feet

NOTES

The cost of epoxy grouting threaded rods shall be included with Reinforcement Bars, Epoxy Coated.
 Repair of existing piers shall include but may not be limited to the areas shown.
 The actual areas to be repaired shall be determined by the Engineer at time of construction.



ELEVATION
(Looking East)

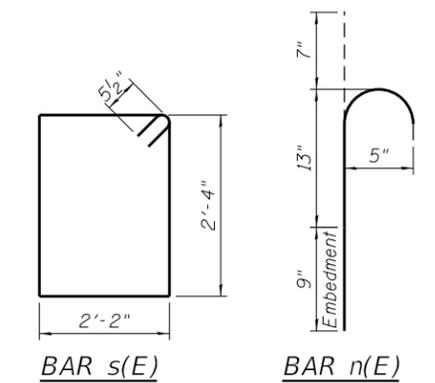


PLAN

* Epoxy grout n(E) bars in 9" min. holes according to Article 584 of the Standard Specifications.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h3(E)	7	#5	6'-1"	—
h5(E)	14	#5	11'-7"	—
n(E)	66	#5	2'-5"	⌋
s(E)	31	#5	9'-11"	□
Concrete Structures		Cu. Yd.	7.6	
Reinforcement Bars, Epoxy Coated		Pound	700	
Structural Repair of Concrete (Depth ≤ 5 Inches)		Sq. Ft.	11	



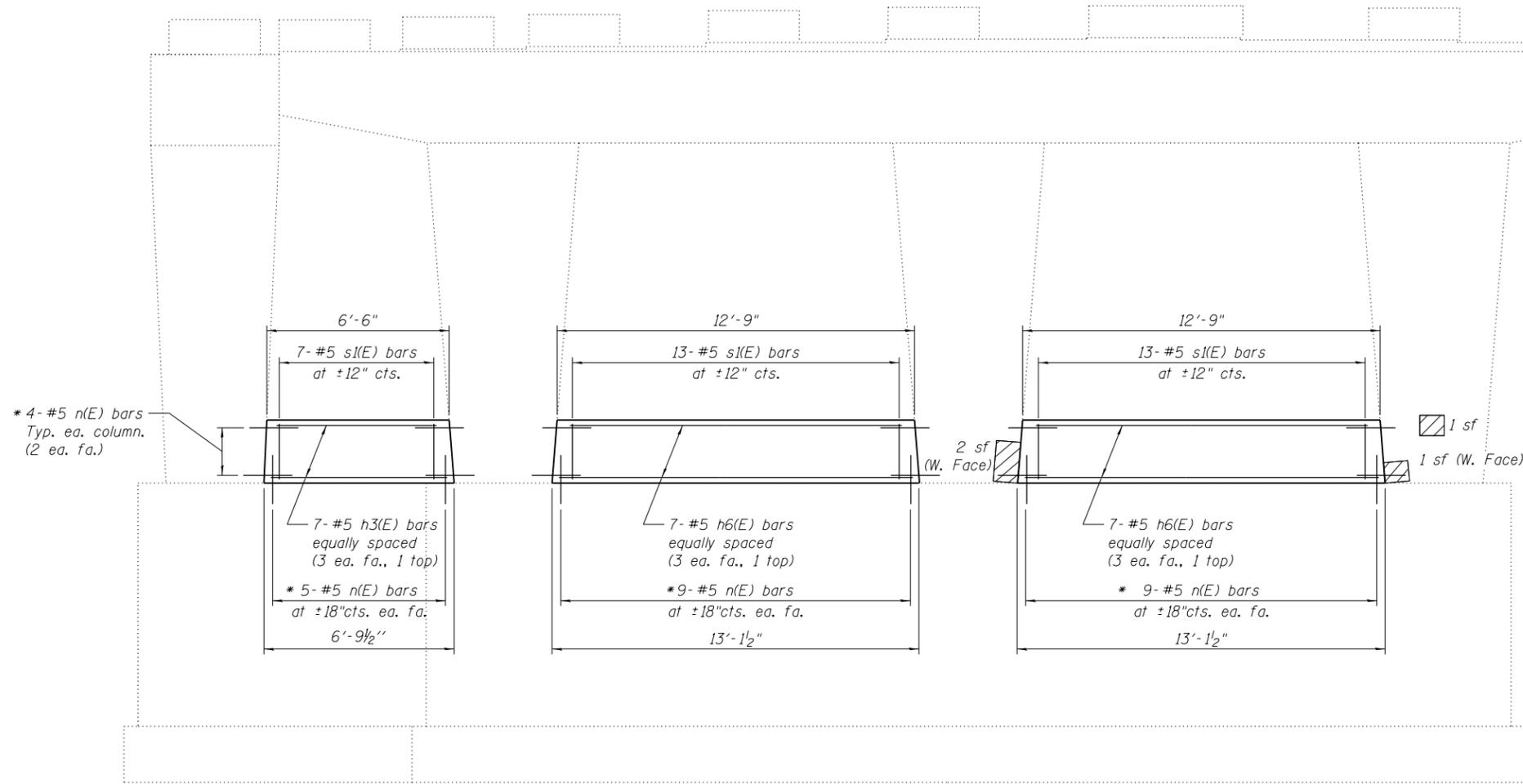
LEGEND

 Structural Repair of Concrete (Depth Equal To or Less Than 5in.)

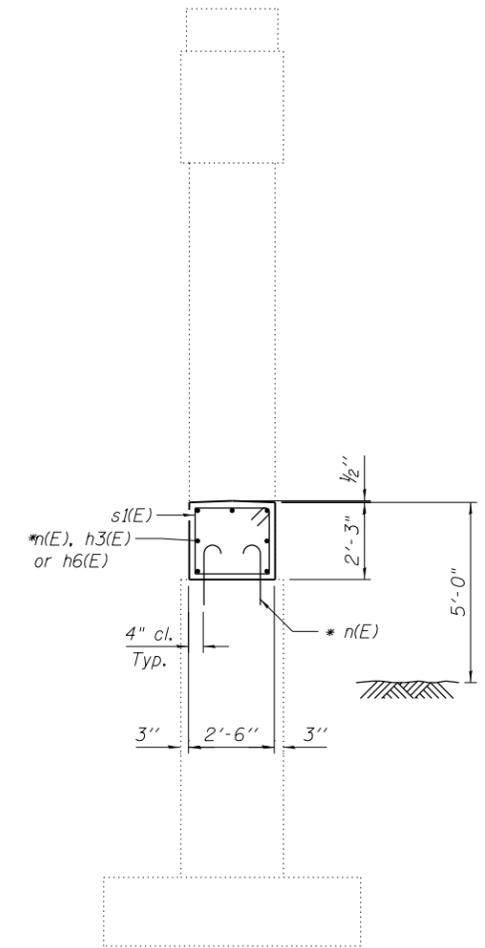
sf Square Feet

NOTES

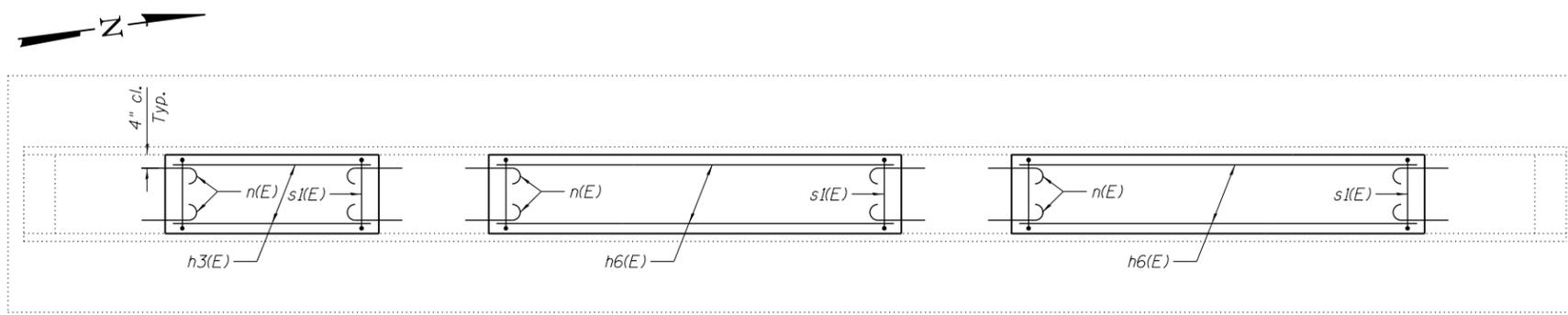
The cost of epoxy grouting threaded rods shall be included with Reinforcement Bars, Epoxy Coated.
 Repair of existing piers shall include but may not be limited to the areas shown.
 The actual areas to be repaired shall be determined by the Engineer at time of construction.



ELEVATION
(Looking West)



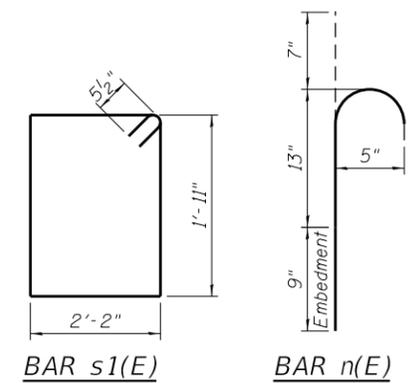
* Epoxy grout n(E) bars in 9" min. holes according to Article 584 of the Standard Specifications.



PLAN

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h3(E)	7	#5	6'-1"	—
h6(E)	14	#5	12'-5"	—
n(E)	70	#5	2'-5"	⌋
s1(E)	33	#5	9'-1"	□
Concrete Structures		Cu. Yd.	6.8	
Reinforcement Bars, Epoxy Coated		Pound	720	
Structural Repair of Concrete (Depth ≤ 5 Inches)		Sq. Ft.	4	

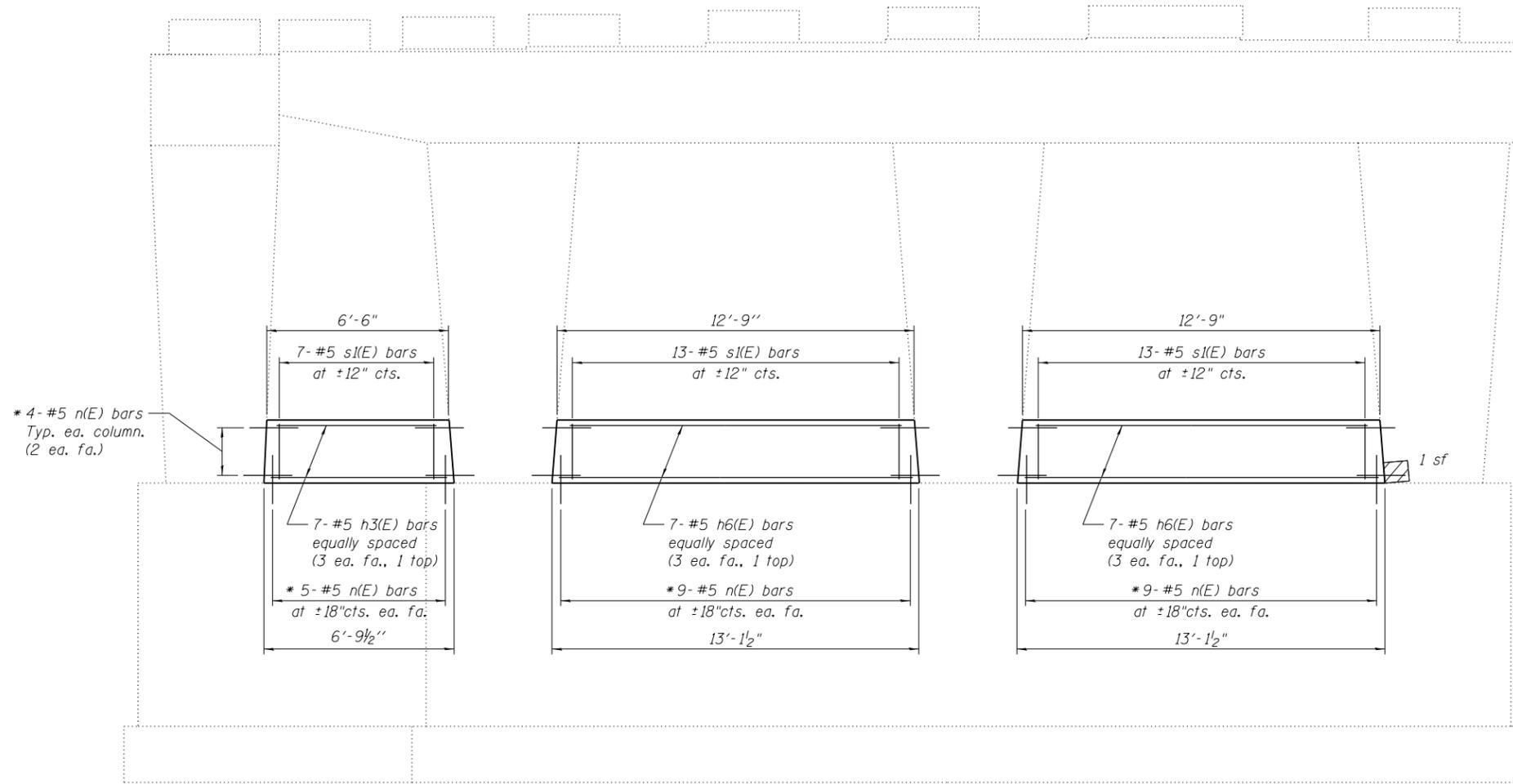


NOTES

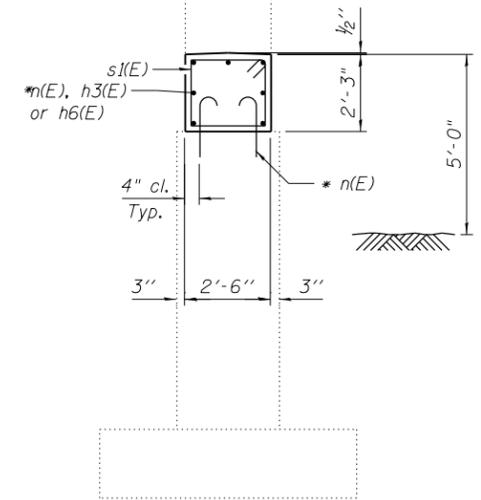
The cost of epoxy grouting threaded rods shall be included with Reinforcement Bars, Epoxy Coated.
 Repair of existing piers shall include but may not be limited to the areas shown.
 The actual areas to be repaired shall be determined by the Engineer at time of construction.

LEGEND

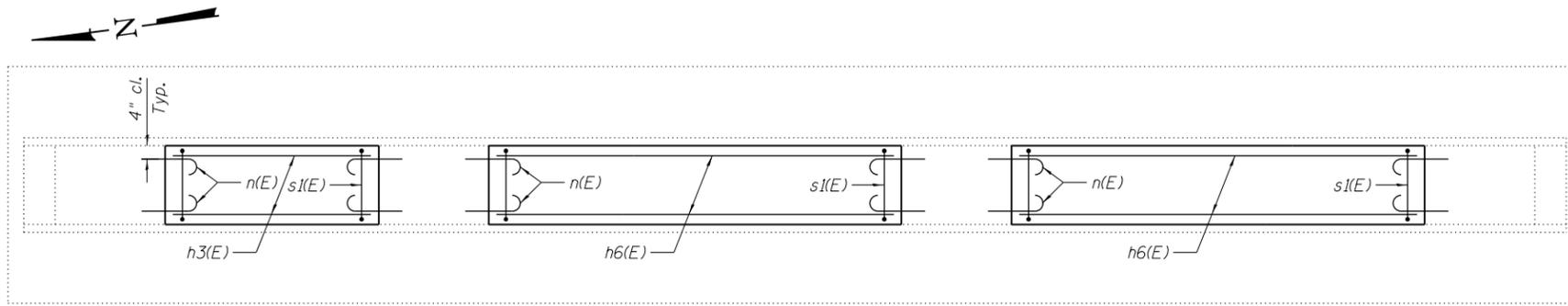
-  Structural Repair of Concrete (Depth Equal To or Less Than 5in.)
- sf Square Feet



ELEVATION
(Looking East)



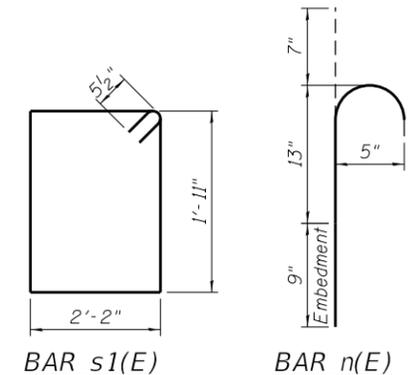
* Epoxy grout n(E) bars in 9" min. holes according to Article 584 of the Standard Specifications.



PLAN

BILL OF MATERIAL

Bar	No.	Size	Length	Shape	
h3(E)	7	#5	6'-1"	—	
h6(E)	14	#5	12'-5"	—	
n(E)	70	#5	2'-5"	⌋	
s1(E)	33	#5	9'-1"	□	
Concrete Structures				Cu. Yd.	6.8
Reinforcement Bars, Epoxy Coated				Pound	720
Structural Repair of Concrete (Depth ≤ 5 Inches)				Sq. Ft.	1



BAR s1(E)

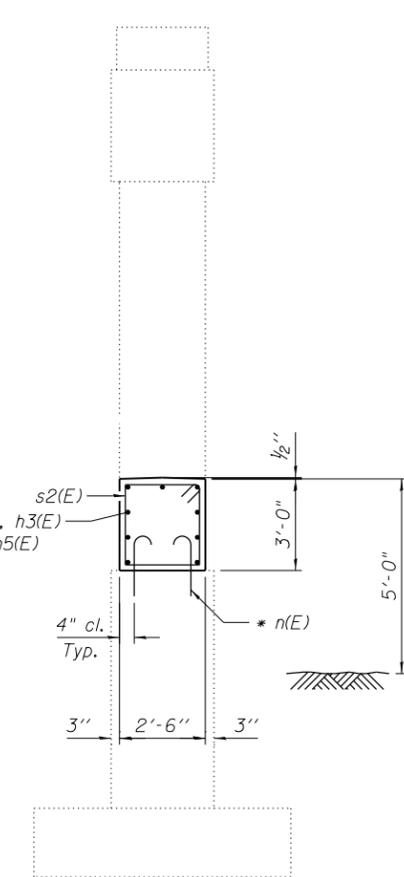
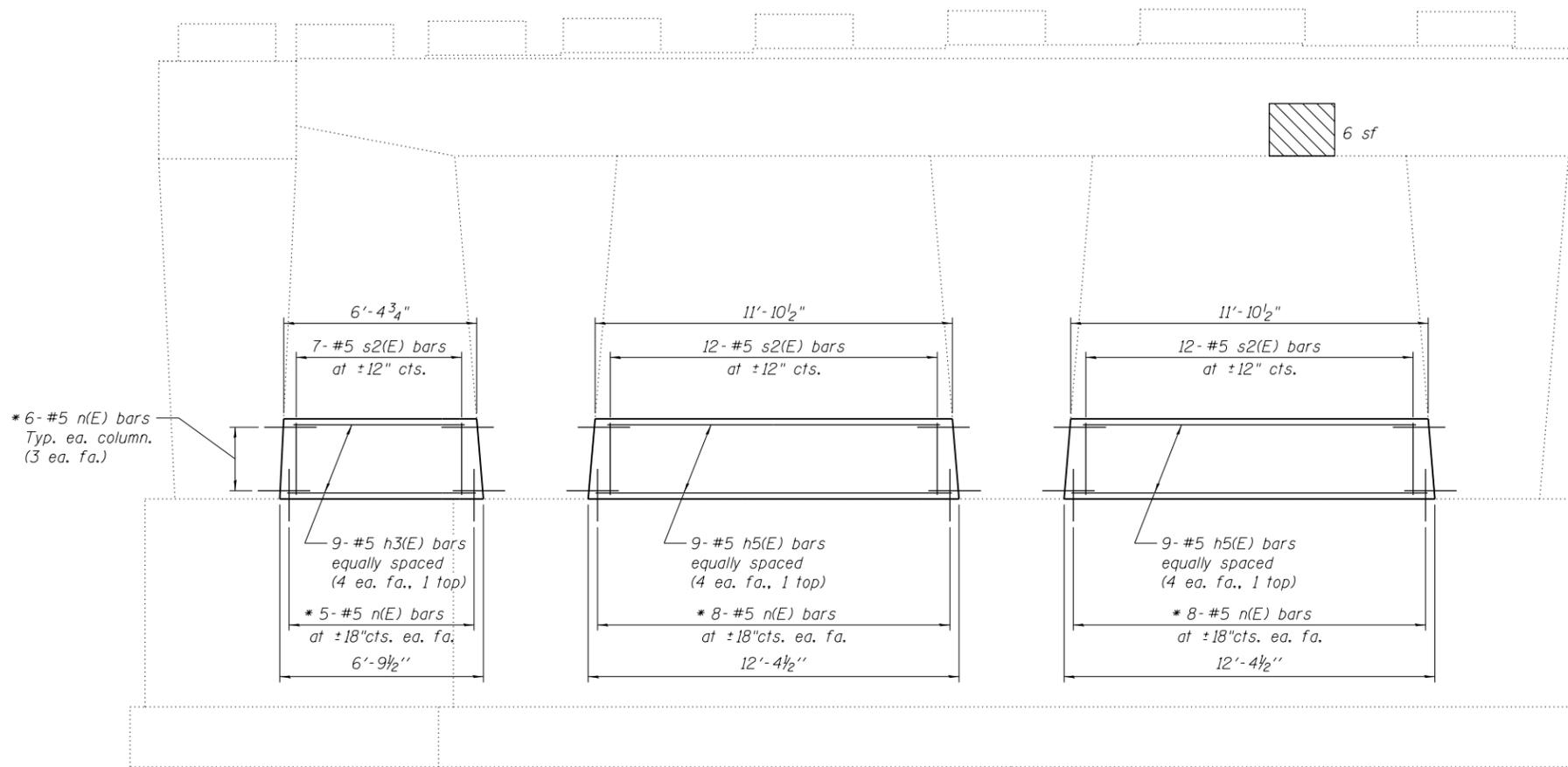
BAR n(E)

LEGEND

-  Structural Repair of Concrete (Depth Equal To or Less Than 5in.)
- sf Square Feet

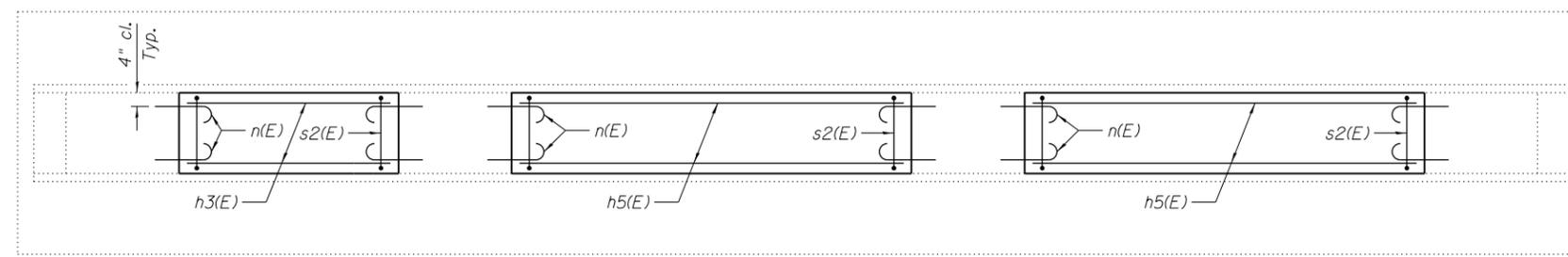
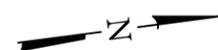
NOTES

The cost of epoxy grouting threaded rods shall be included with Reinforcement Bars, Epoxy Coated.
 Repair of existing piers shall include but may not be limited to the areas shown.
 The actual areas to be repaired shall be determined by the Engineer at time of construction.



ELEVATION
(Looking West)

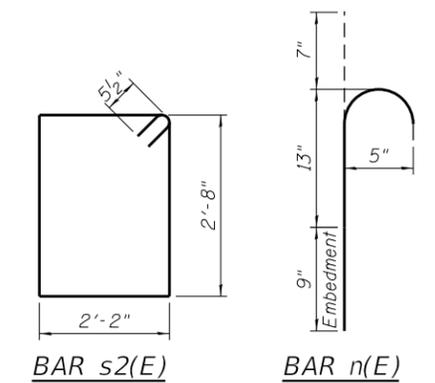
* Epoxy grout n(E) bars in 9" min. holes according to Article 584 of the Standard Specifications.



PLAN

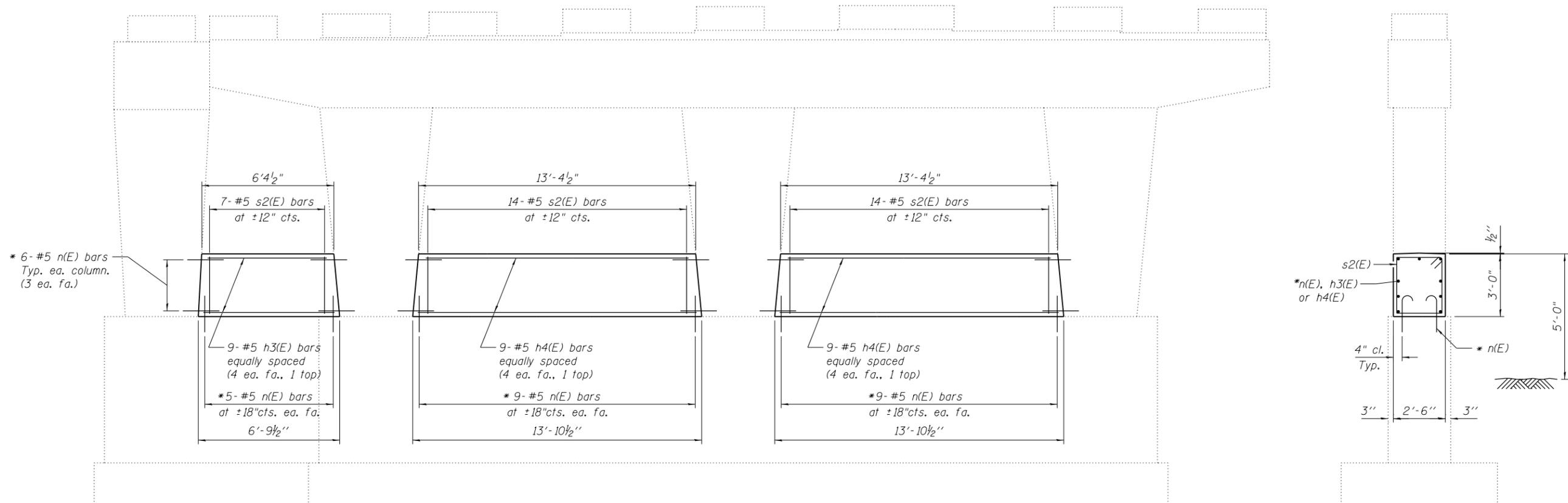
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h3(E)	9	#5	6'-1"	—
h5(E)	18	#5	11'-7"	—
n(E)	78	#5	2'-5"	⌒
s2(E)	31	#5	10'-7"	□
Concrete Structures			Cu. Yd.	8.6
Reinforcement Bars, Epoxy Coated			Pound	880
Structural Repair of Concrete (Depth ≤ 5 Inches)			Sq. Ft.	6



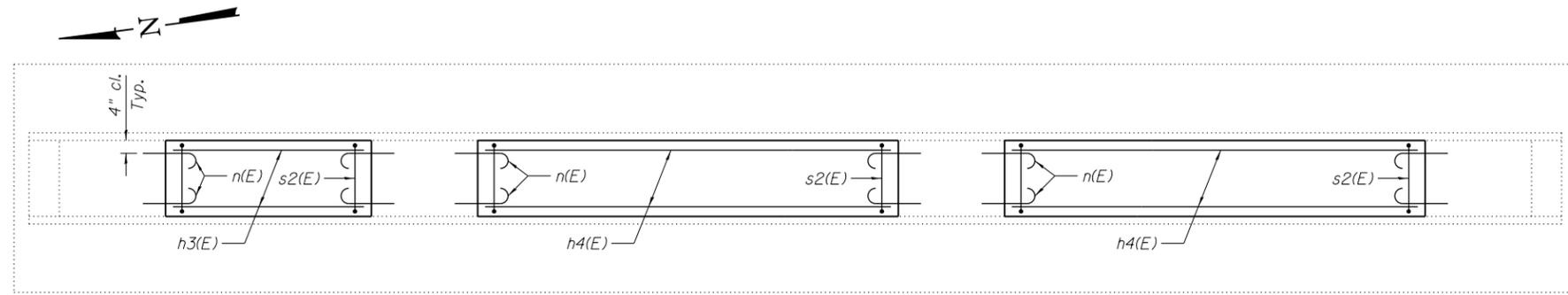
NOTES

The cost of epoxy grouting threaded rods shall be included with Reinforcement Bars, Epoxy Coated.



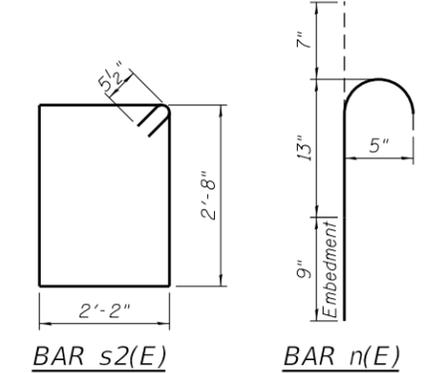
ELEVATION
(Looking East)

* Epoxy grout n(E) bars in 9" min. holes according to Article 584 of the Standard Specifications.

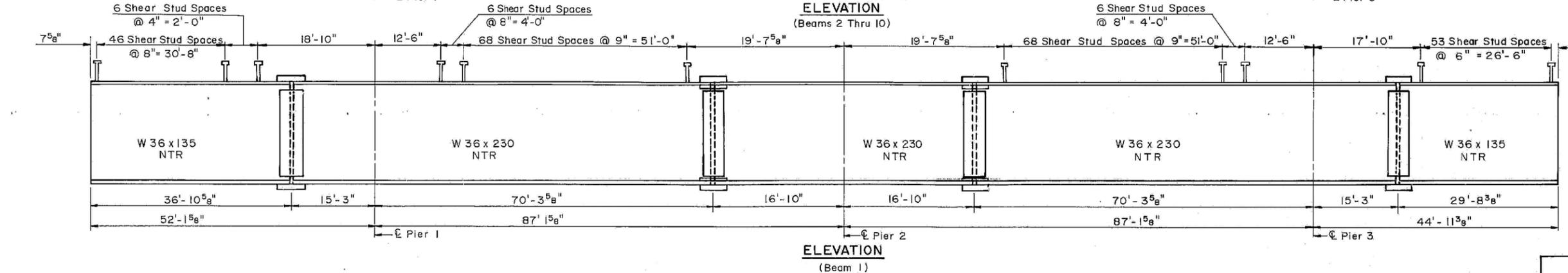
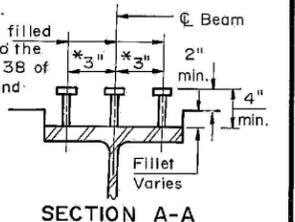
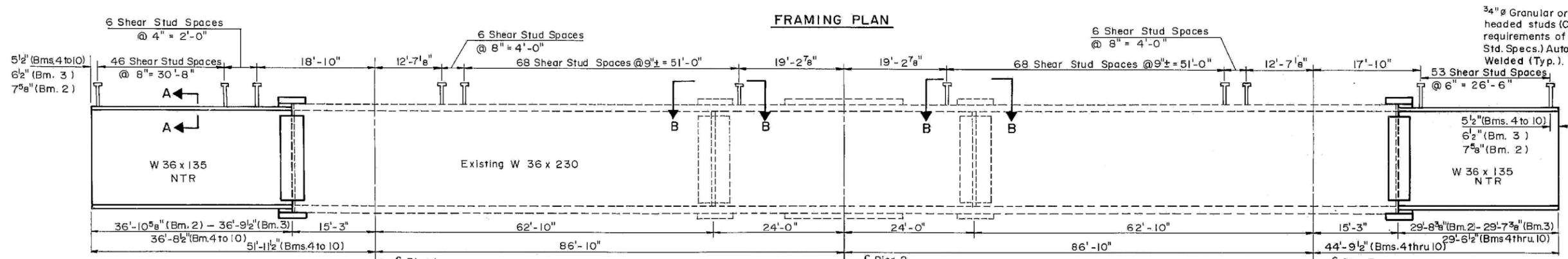
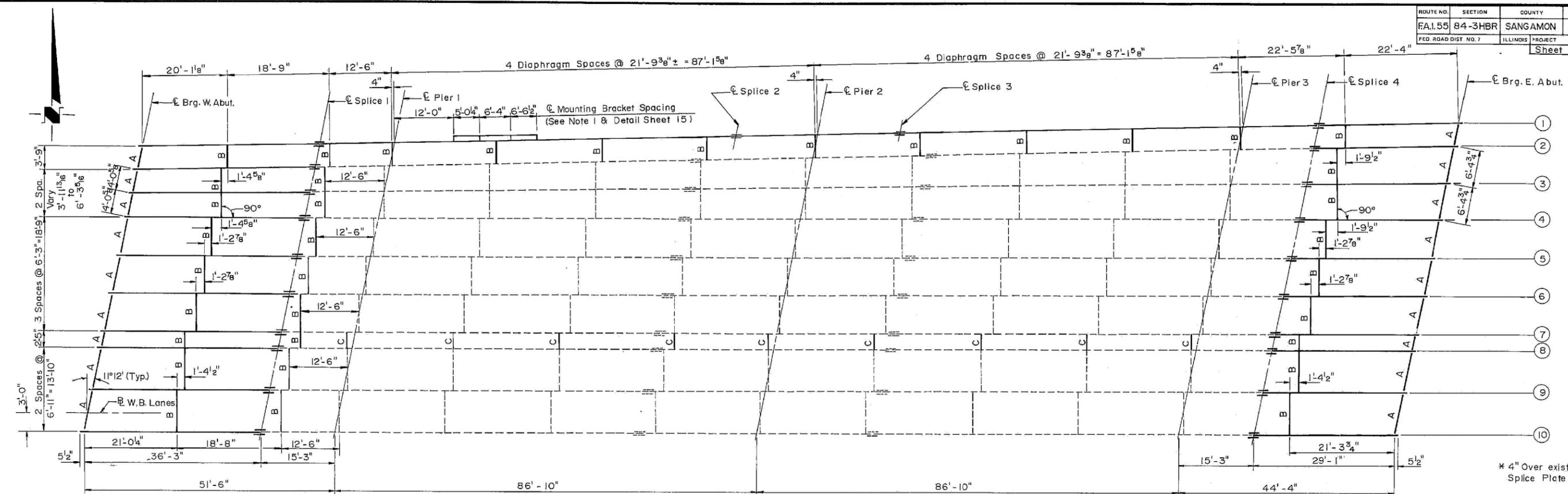


BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h3(E)	9	#5	6'-1"	—
h4(E)	18	#5	13'-1"	—
n(E)	82	#5	2'-5"	⌒
s2(E)	35	#5	10'-7"	□
Concrete Structures			Cu. Yd.	9.4
Reinforcement Bars, Epoxy Coated			Pound	900



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI.55	84-3HBR	SANGAMON	85	47
FED. ROAD DIST. NO. 7	ILLINOIS PROJECT		Sheet 16 of 36	



FOR INFORMATION ONLY

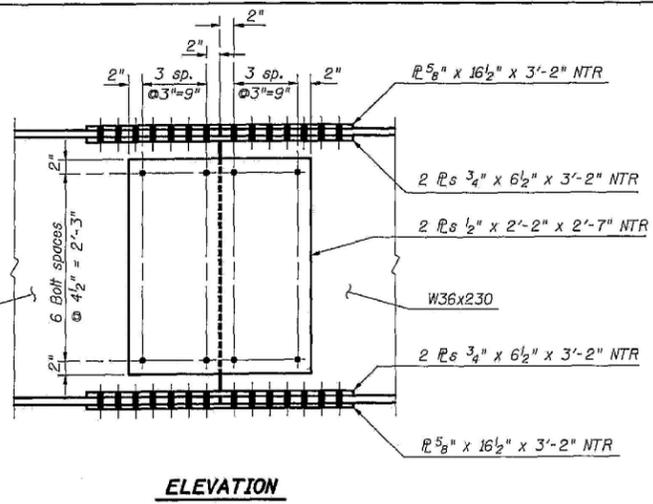
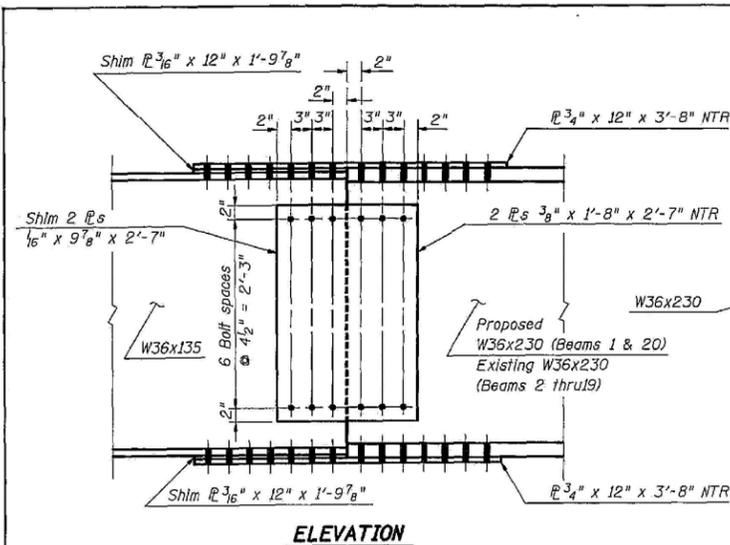
FRAMING PLAN
CLEAR LAKE AVE. (I-72)
OVER F.A.I. RTE. 55
SECTION 84-3HBR
STA. 333+47.41 (F.A.I.-55)
SANGAMON COUNTY
STR. NO. 084-0051

MTA, INCORPORATED
 DESIGNED G.B.M. CHECKED B.G.H.
 DRAWN J.P.H. DATE July 1993 NO.

"NTR" denotes Notch Toughness Requirements

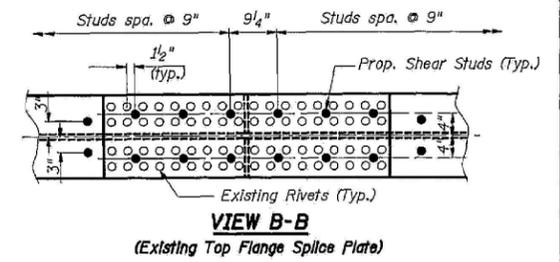
Work this Sheet with Sheet 17 of 36.

ORIGINAL: CEC UPDATED: E JOB: 084-0050-0051-72J97-018, 019, 020, 021, 022, 023, 024, 025, 026, 027, 028, 029, 030, 031, 032, 033, 034, 035, 036, 037, 038, 039, 040, 041, 042, 043, 044, 045, 046, 047, 048, 049, 050, 051, 052, 053, 054, 055, 056, 057, 058, 059, 060, 061, 062, 063, 064, 065, 066, 067, 068, 069, 070, 071, 072, 073, 074, 075, 076, 077, 078, 079, 080, 081, 082, 083, 084, 085, 086, 087, 088, 089, 090, 091, 092, 093, 094, 095, 096, 097, 098, 099, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000	DESIGNED - AAN MTH REVISIONS - DATE - 12/10/2018 DRAWN - SJS DAS CHECKED - MDC MTH	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING PLANS STRUCTURE NO. 084-0050 (EB) & 0051 (WB) (FOR INFORMATION) SHEET NO. 18 OF 22 SHEETS	F.A.P. RTE. 67 SECTION (84-3-2) RS-2, BP, BDR COUNTY SANGAMON TOTAL SHEETS 98 SHEET NO. 78 CONTRACT NO. 72J97 ILLINOIS FED. AID PROJECT
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GIRDER 9 & 12 MOMENT TABLE

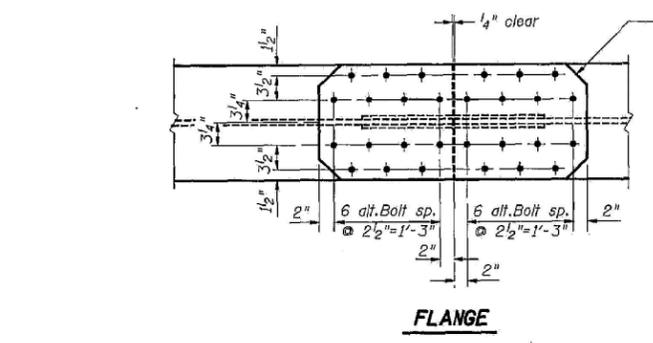
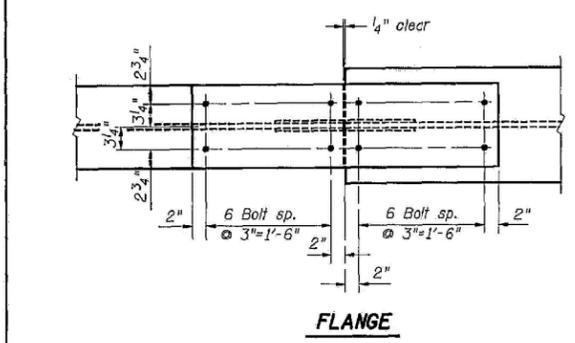
	0.4 Sp. 1	Pier 1	.5 Sp. 2	Pier 2	.5 Sp. 3	Pier 3	.6 Sp. 4
I_s (in ⁴)	7,800	15,000	15,000	21,250	15,000	15,000	7,800
I_c (in ⁴)	20,490	---	31,544	---	31,544	---	20,490
I_c (3n) (in ⁴)	14,940	---	23,150	---	23,150	---	14,940
S_s (in ³)	439	837	837	1,144	837	837	439
S_c (in ³)	647	---	1,096	---	1,096	---	647
S_o (3n) (in ³)	582	---	993	---	993	---	582
M (K/FT.)	.84	.94	.94	1.01	.94	.94	.84
M (K)	90.4	451.8	304.3	721.8	317.8	424.8	32.2
f_s (non-comp.) (ksi)	2.47	6.48	4.36	7.57	4.56	6.09	0.88
s (K/FT.)	.216	.216	.216	.216	.216	.216	.216
M_s (K)	30.4	95.9	80.8	149.6	84.0	89.6	15.1
f_s (comp.) (ksi)	.63	1.37	.98	1.57	1.01	1.28	.31
M_i (K)	332.9	318.0	564.6	430.5	557.9	303.5	271.8
M (Imp) (K)	94.3	82.0	133.2	101.6	131.7	79.7	80.2
f_s (k + imp) (ksi)	7.93	5.74	7.64	5.58	7.55	5.50	6.54
f_s (Total) (ksi)	11.03	13.59	12.98	14.72	13.12	12.87	7.73
VR (K)	51.9	55.7	55.7	56.0	56.0	52.2	52.2



GIRDER 9 & 12 REACTION TABLE

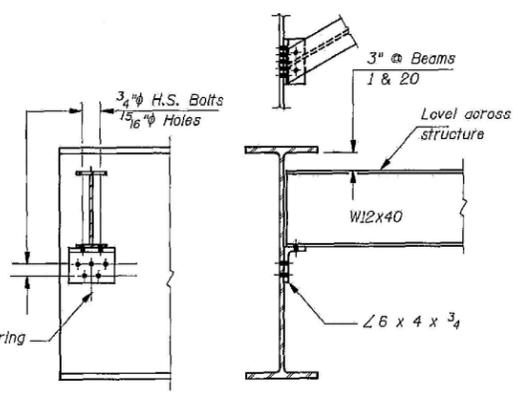
	W. Abut	Pier 1	Pier 2	Pier 3	E. Abut
R (K)	16.7	85.7	109.9	82.5	12.0
R (K)	35.6	49.0	55.5	47.9	34.2
Imp. (K)	10.0	12.6	13.2	12.5	10.1
R (Total) (K)	62.3	147.3	178.6	142.9	56.3

I_s and S_s are the moment of inertia and section modulus of the steel section used in computing f_s (Total).
 I_c (n), I_c (3n) and S_c (n), S_c (3n) are the moment of inertia and section modulus of the composite section used computing f_s (Total).
 VR is the maximum u + Impact shear range in span.

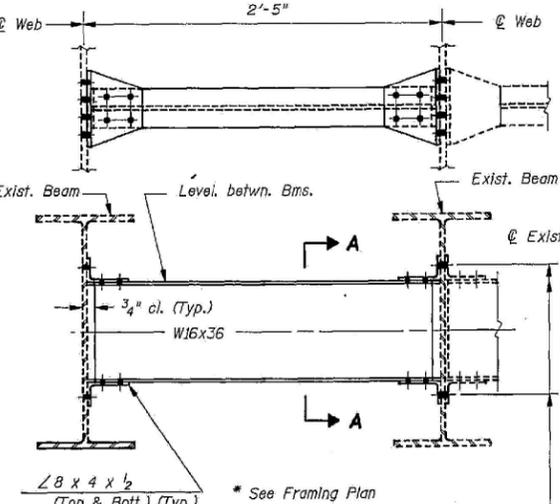
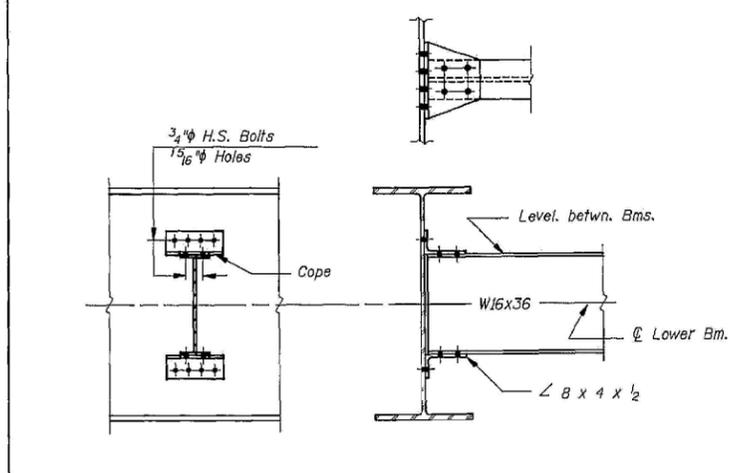


Note:
 Splice 4 similar by rotation

Note:
 $\frac{3}{8}$ " H.S. Bolts Typical all Splices.
 "NTR" denotes Notch Toughness Requirements.
 Use holes in splice plates as a template for drilling holes in existing beams.



Note:
 Two hardened washers shall be required over all oversize holes.



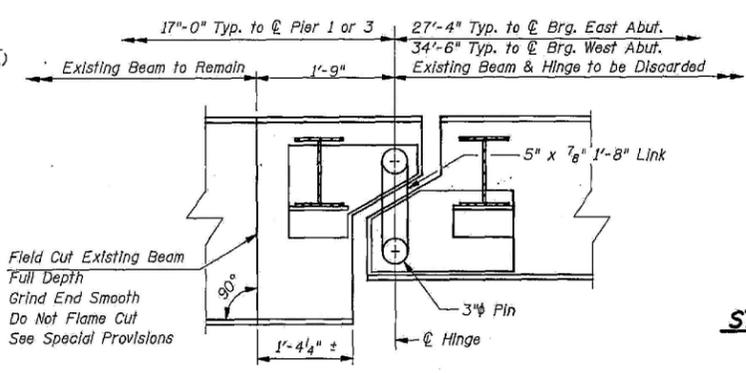
Remove existing bolts in Exist. Beam. Field drill $\frac{15}{16}$ " ϕ holes in new angles using holes in existing beams as a template. Existing bolts are to be replaced with $\frac{3}{4}$ " ϕ H.S. bolts. Cost of Bolt Removal and Field Drilling is incidental to "Structural Steel".

PROPOSED TOP FLANGE ELEVATIONS

WESTBOUND (NORTH BRIDGE)									
BEAM	W. ABUT	SPL. 1	PIER 1	SPL. 2	PIER 2	SPL. 3	PIER 3	SPL. 4	E. ABUT
1	590.36	590.14	590.04	589.56	589.40	589.24	588.40	588.22	587.86
2	590.44	590.22	590.09	589.56	589.38	589.10	588.43	588.29	587.95
3	590.53	590.31	590.18	589.66	589.49	589.22	588.57	588.42	588.10
4	590.61	590.41	590.28	589.77	589.60	589.34	588.72	588.57	588.25
5	590.75	590.54	590.40	589.89	589.73	589.46	588.85	588.71	588.40
6	590.86	590.66	590.53	590.02	589.85	589.58	588.97	588.83	588.52
7	590.96	590.70	590.56	590.08	589.92	589.67	589.06	588.90	588.64
8	590.96	590.70	590.56	590.08	589.92	589.67	589.06	588.90	588.65
9	590.86	590.64	590.50	590.02	589.86	589.59	518.99	588.85	588.56
10	590.74	590.55	590.42	589.93	589.76	589.51	588.90	588.74	588.45

EASTBOUND (SOUTH BRIDGE)									
BEAM	W. ABUT	SPL. 1	PIER 1	SPL. 2	PIER 2	SPL. 3	PIER 3	SPL. 4	E. ABUT
11	590.61	590.39	590.27	589.90	589.79	589.56	589.02	588.90	588.63
12	590.74	590.52	590.40	590.03	589.92	589.69	589.16	589.04	588.77
13	590.85	590.58	590.45	590.09	589.98	589.74	589.21	589.10	588.90
14	590.85	590.58	590.45	590.09	589.98	589.74	589.21	589.10	588.90
15	590.75	590.51	590.37	590.02	589.92	589.68	589.15	589.05	588.82
16	590.65	590.43	590.31	589.93	589.83	589.61	589.08	588.96	588.73
17	590.52	590.32	590.19	589.81	589.71	589.49	589.01	588.88	588.61
18	590.39	590.20	590.07	589.74	589.63	589.42	588.91	588.79	588.54
19	590.27	590.12	590.01	589.61	589.49	589.28	588.81	588.69	588.46
20	590.19	590.04	589.98	589.66	589.54	589.43	588.80	588.66	588.40

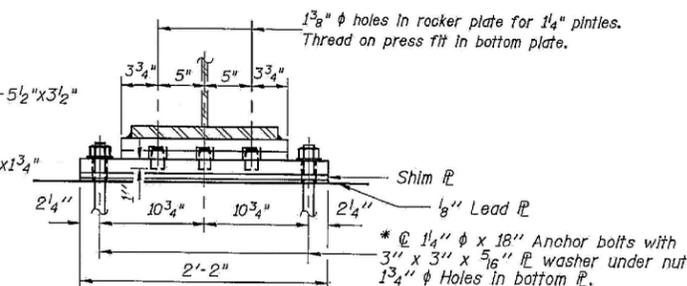
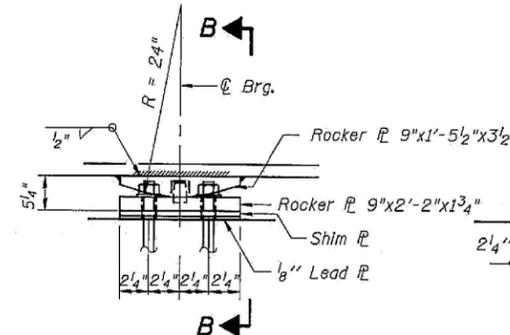
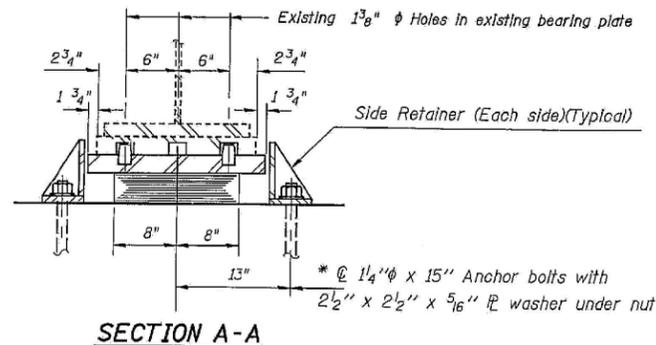
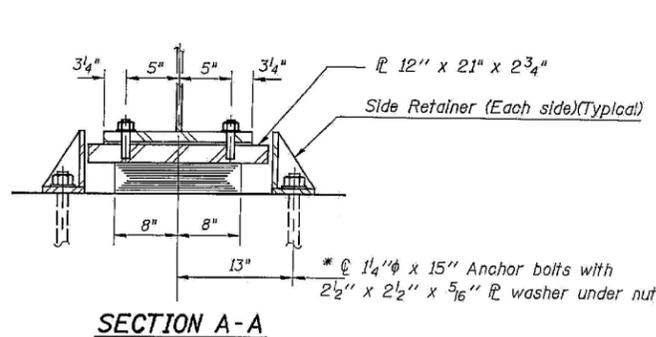
* Elevation @ top of Existing cover plate @ Pier 2 only Beams 2 thru 19
 ** Elevation @ splices are developed from existing plans and are given for information only.



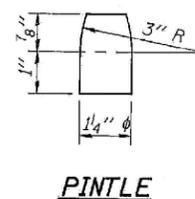
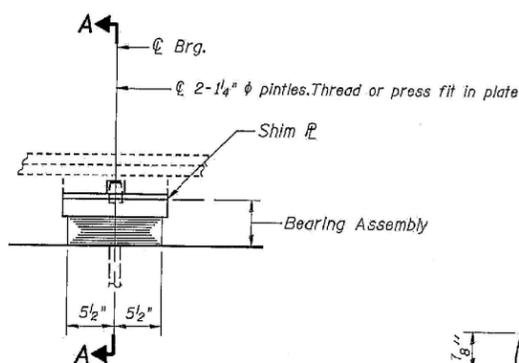
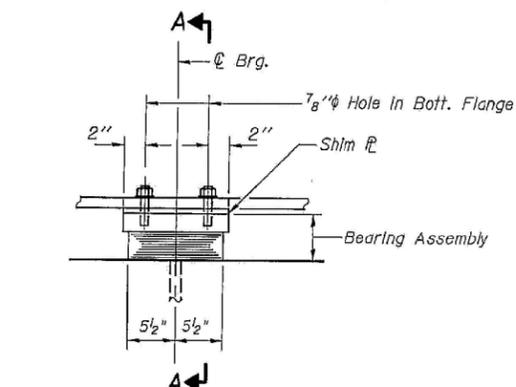
FOR INFORMATION ONLY

STEEL DETAILS
 CLEAR LAKE AVE. (I-72)
 OVER F.A.I. RTE. 55
 SECTION 84-3HBR
 STA. 333+47.41 (F.A.I. RTE. 55)
 SANGAMON COUNTY
 S.N. 084-0050 & 084-0051

MTA INCORPORATED
 DESIGNED: GBM CHECKED: TMM
 DRAWN: BRB DATE: JULY, 1993

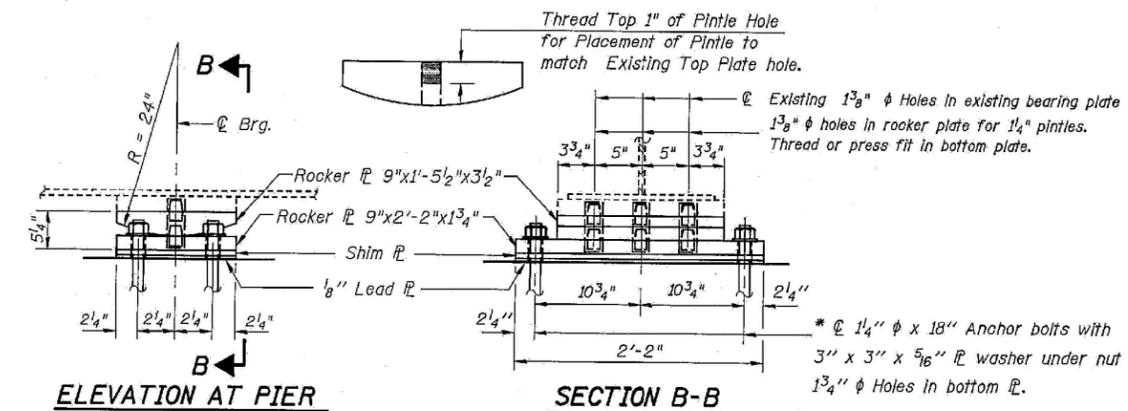


FIXED BEARING (BEAMS 1 & 20)
(2 - Req'd.)

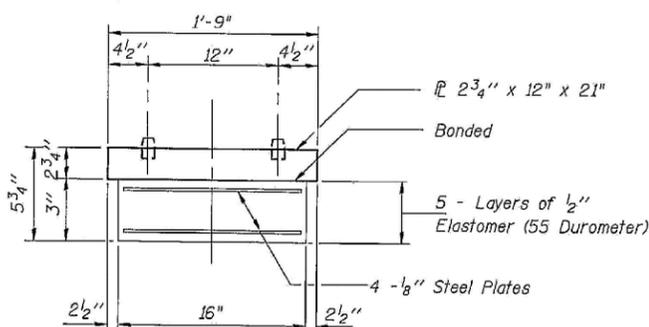
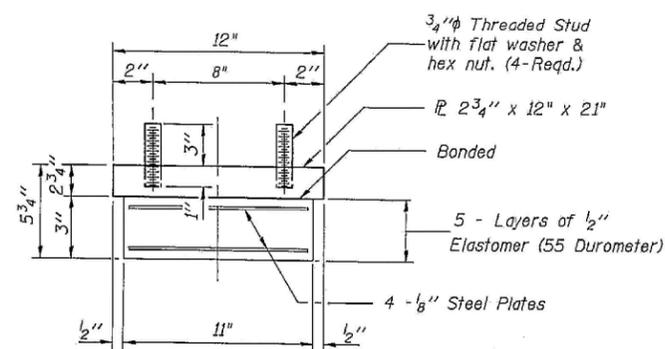


TYPE I ELASTOMERIC EXP. BRG.
(BEAMS 2 THRU 19)
36 Required

TYPE I ELASTOMERIC EXP. BRG.
(BEAMS 1 & 20)
4 Required



FIXED BEARING (BEAMS 2 thru 19)
(18 - Req'd.)
FIXED BEARING (PIER 2)



Note: Shim plates shall not be placed under Bearing Assembly.

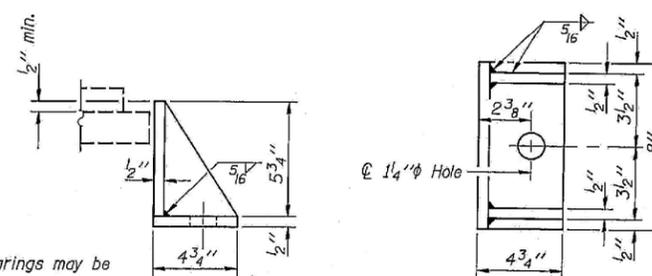
Note: Shim plates shall not be placed under Bearing Assembly.

* Notes: Anchor bolts at fixed bearings may be built into the masonry. See sheet #31 for Anchor Bolt installation.

Weight of Fixed Bearing Included with Structural Steel. The Contractor shall verify elevations and dimensions of existing piers and abutments before ordering materials.

SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates. Weight included with Structural Steel.



BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type 1	Each	40

BEARING DETAILS - PIERS
CLEAR LAKE AVE. (I-72)
OVER F.A.I. RTE. 55
SECTION 84-3HBR
STA. 333+47.41 (F.A.I. RTE. 55)
SANGAMON COUNTY
S.N. 084-00508 & 084-0051

MTA INCORPORATED

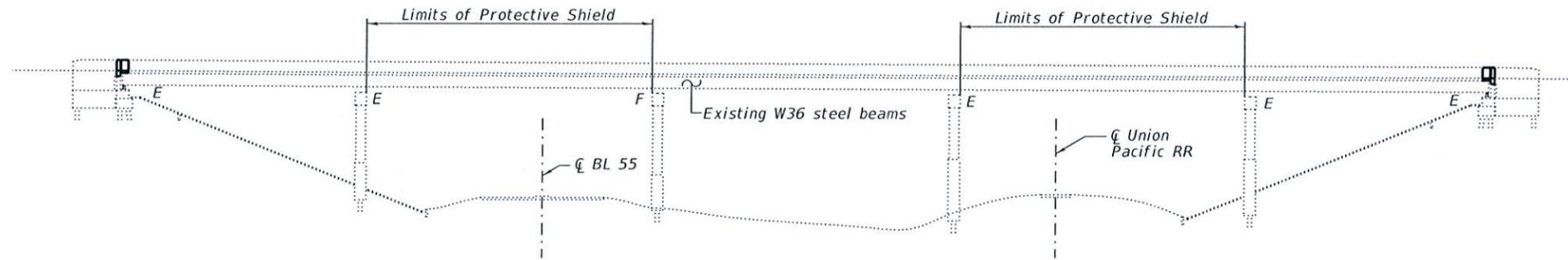
DESIGNED: BGH CHECKED: GBM
DRAWN: TNJR. DATE: July 1993

FOR INFORMATION ONLY

Existing Structure: S.N. 084-0020 was built in 1962 as FAI Route 55, Section 84-2V(B,F) at Station 346+93.36. In 1993, the bridge was widened and the deck slab was replaced. In 2010, the bridge expansion joints were replaced. Structure consists of 5-span continuous rolled steel beam superstructure with 7½" concrete deck 47'-2" out to out width and 361'-4" back to back abutments, founded on pile supported stub abutments and concrete multi-column piers. Stage construction shall be utilized to maintain one lane of traffic.

SCOPE OF WORK

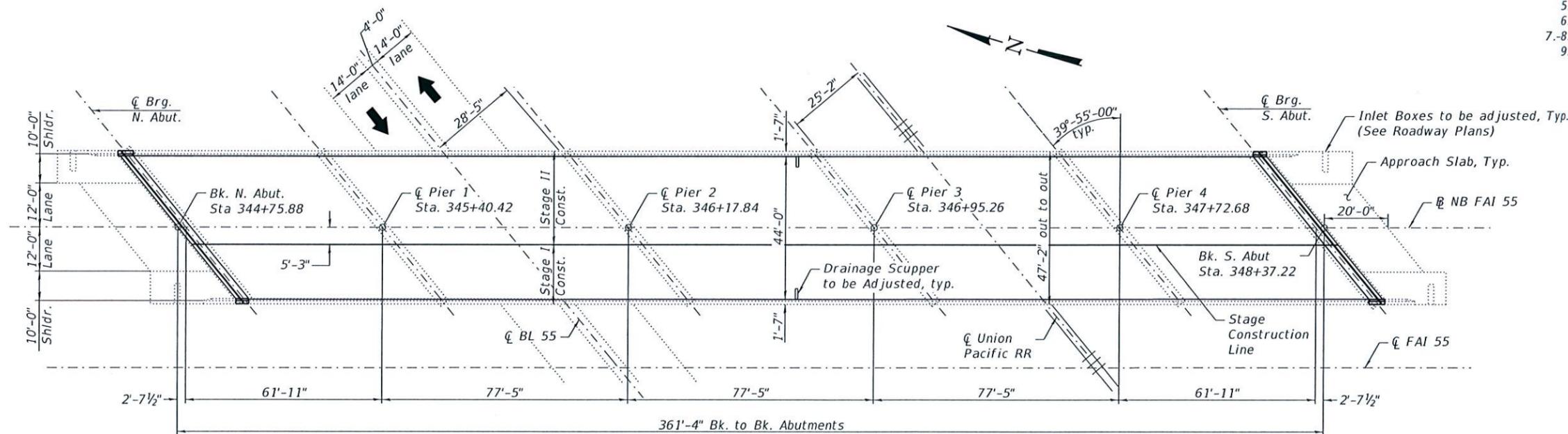
1. Remove concrete deck and parapets at the expansion joints in order to replace strip seal joints.
2. Apply ¾" hydro-scarification to deck slab.
3. Perform deck and approach slab repairs.
4. Place new superstructure concrete and preformed joint strip seal at abutments.
5. Place 2¾" microsilica concrete overlay on deck slab.
6. Perform ¼" Diamond Grinding.
7. Perform bridge deck grooving on new deck surface.
8. Apply protective coat.
9. Repair deteriorated concrete on substructure.



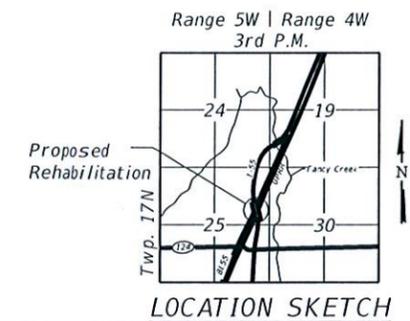
ELEVATION

INDEX OF SHEETS

1. General Plan and Elevation
2. General Data
3. Deck Slab Repair Plan
4. Adjusting Existing Scupper Details
5. Joint Replacement Details
6. Expansion Joint Strip Seal
- 7-8. Pier Repair Details
9. Bar Splicer Details



PLAN



LOCATION SKETCH

DESIGN STRESSES

(New Construction)

FIELD UNITS

$f_y = 60,000$ psi (Reinforcement)



Michael T. Haley 12-11-2018
 Michael T. Haley
 Licensed Structural Engineer
 State of Illinois No. 81-5991
 Expires 11/30/2020

GENERAL PLAN AND ELEVATION
I-55 NORTHBOUND OVER BL55 & UPRR
F.A.I. RTE. 55 - SEC. (84-2) & (84-3) BRR
SANGAMON COUNTY
STATION 346+93.36
STRUCTURE NO. 084-0020

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET 1 OF 9 SHEETS

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(84-2) & (84-3) BRR	SANGAMON	98	83
CONTRACT NO. 72J97				

ILLINOIS FED. AID PROJECT

MODEL: Default
 FILE NAME: E:\1030-131G_SN 084-00204 - Final Design\Design Plans\CADD_Sheets\084-0020-D672\97-001-GPE.dgn
 12/10/2018 2:37:40 PM



USER NAME =	DESIGNED - MTH	REVISED -
PLOT SCALE =	CHECKED - VPT	REVISED -
PLOT DATE =	DRAWN - DAS	REVISED -
	CHECKED - MTH	REVISED -

GENERAL NOTES

No field welding is permitted except as specified in the contract documents. Reinforcement bars designated (E) shall be epoxy coated. Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. 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 the existing concrete.

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.

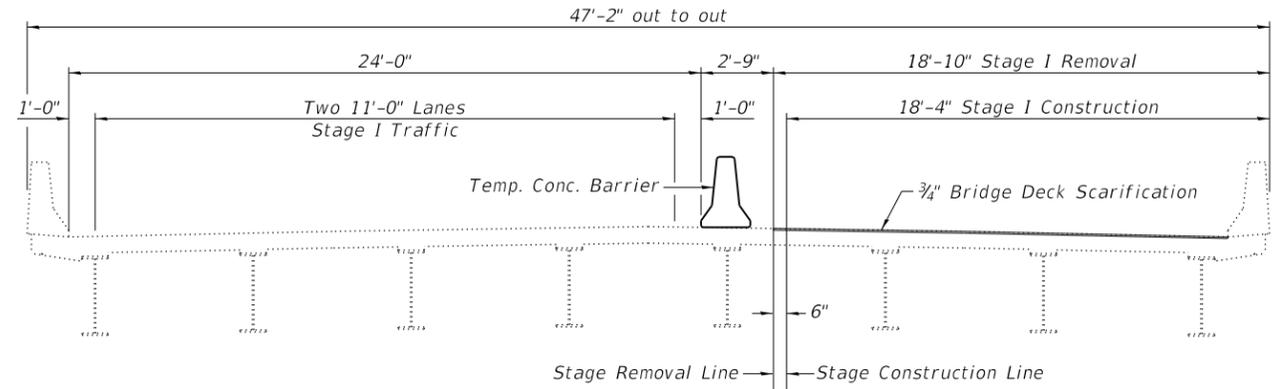
Cleaning and field painting of structural steel shall be done under a separate painting contract.

The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.

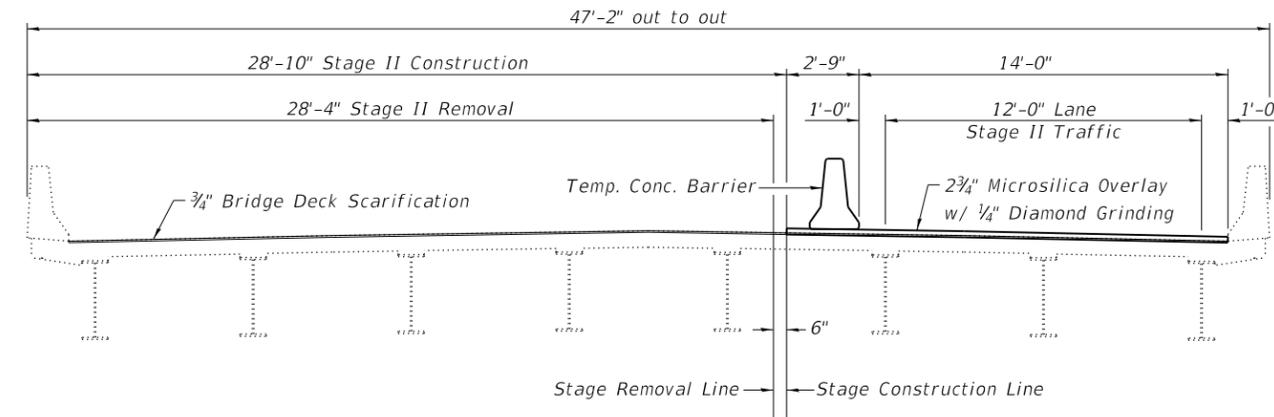
Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.

Joint openings shall be adjusted according to Article 520.04 of the Std. Specs. when the deck is poured at an ambient temperature other than 50° F.

Synthetic fibers shall be added to the Bridge Deck Microsilica Concrete Overlay. See Special Provisions.



STAGE I REMOVAL & CONSTRUCTION
(Looking South)



STAGE II REMOVAL & CONSTRUCTION
(Looking South)

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Concrete Removal	Cu. Yd.	10.0
Protective Shield	Sq. Yd.	780
Concrete Superstructure	Cu. Yd.	11.3
* Protective Coat	Sq. Yd.	2,045
Reinforcement Bars, Epoxy Coated	Pound	1,110
Bar Splicers	Each	24
Preformed Joint Strip Seal	Foot	119
Bridge Deck Grooving (Longitudinal)	Sq. Yd.	1,670
Bridge Deck Scarification 3/4"	Sq. Yd.	1,726
Drainage Scupper to be Adjusted	Each	2
Bridge Deck Microsilica Concrete Overlay, 2 3/4"	Sq. Yd.	1,726
Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)	Sq. Ft.	26
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	0.5
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	14.0
Approach Slab Repair (Partial Depth)	Sq. Yd.	1.7
Diamond Grinding (Bridge Section)	Sq. Yd.	1,604

* Apply to top and inside faces of parapets, and to top of deck slab including new concrete adjacent to expansion joints.

Note:
See Roadway Plans for Temporary Concrete Barrier quantities.

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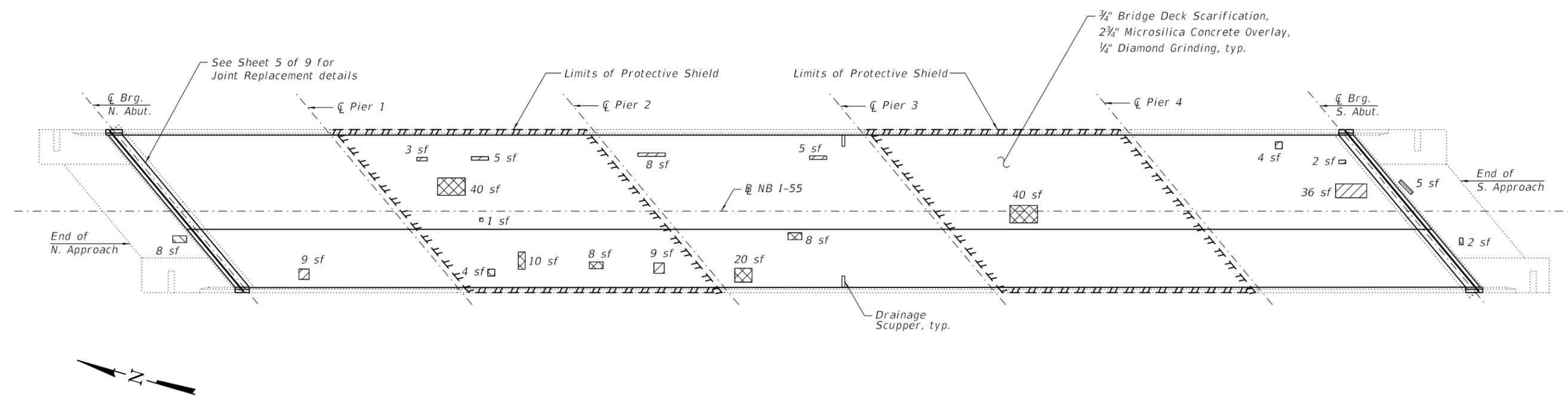
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL DATA
STRUCTURE NO. 084-0020**

SHEET 2 OF 9 SHEETS

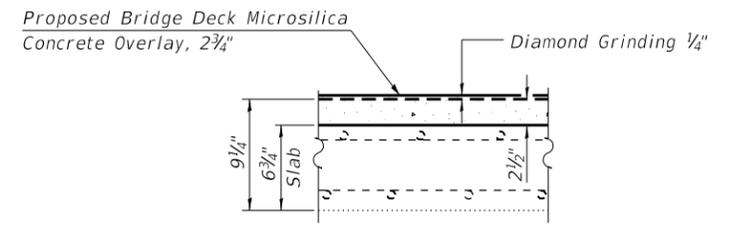
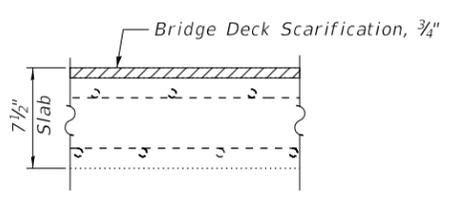
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(84-2) & (84-3) BRR	SANGAMON	98	84
CONTRACT NO. 72J97				
		ILLINOIS	FED. AID PROJECT	

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BILL OF MATERIAL

ITEM	UNIT	TOTAL
Approach Slab Repair (Partial Depth)	Sq. Yd.	1.7
Deck Slab Repair (Partial Depth)	Sq. Yd.	5.1
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	0.5
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	14.0



Notes:
 Areas of deck repairs shown are estimated.
 The Engineer shall document actual locations of deck repairs on As-Built Plans.
 Quantity listed for Deck Slab Repair (Partial) is for information only. See Bridge Deck Microsilica Concrete Overlay Special Provisions.

- LEGEND**
- Indicates Approach Slab Repair (Partial Depth)
 - Indicates Deck Slab Repair (Partial) (For information only)
 - Indicates Deck Slab Repair (Full Depth)
- sf - Square Feet



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PLOT DATE =	DRAWN - DAS	REVISED -
	CHECKED - MTH	REVISED -

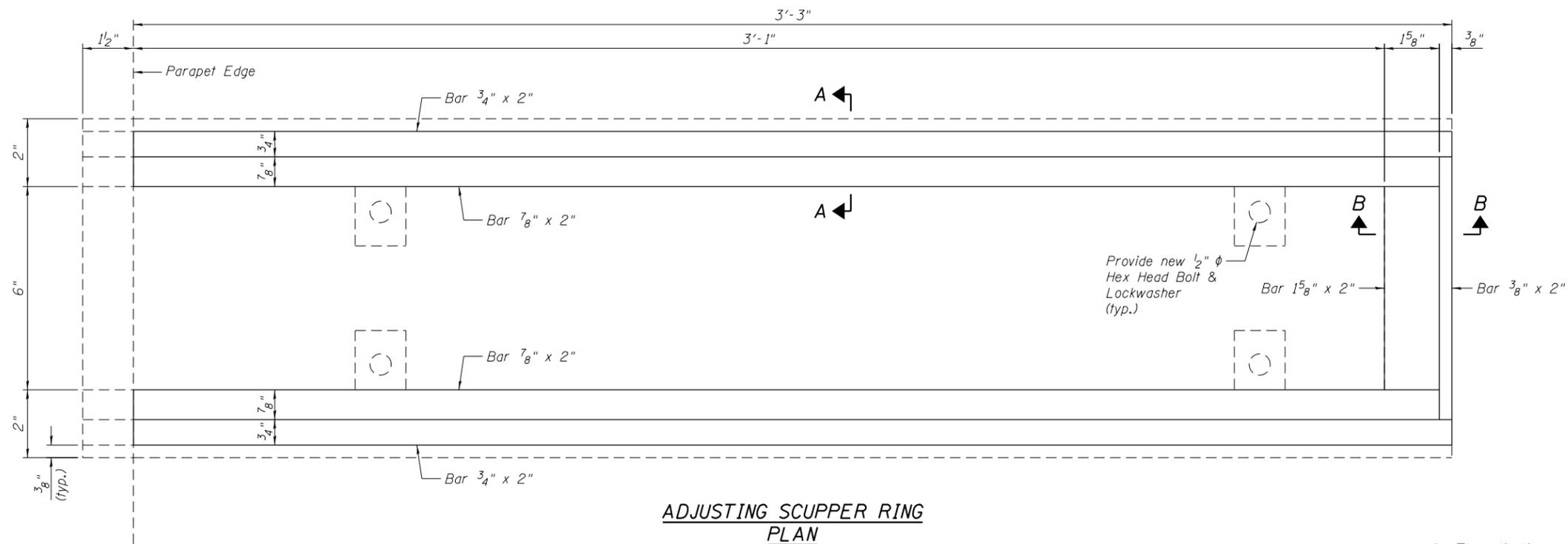
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

DECK SLAB REPAIR PLAN
 STRUCTURE NO. 084-0020

SHEET 3 OF 9 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(84-2) & (84-3) BRR	SANGAMON	98	85
CONTRACT NO. 72J97				

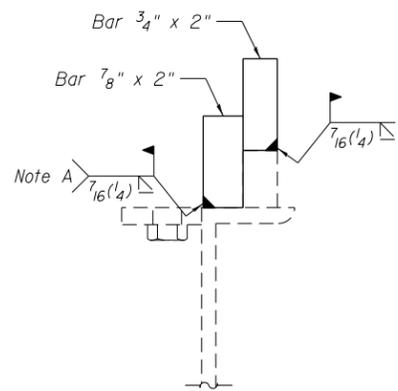
ILLINOIS FED. AID PROJECT



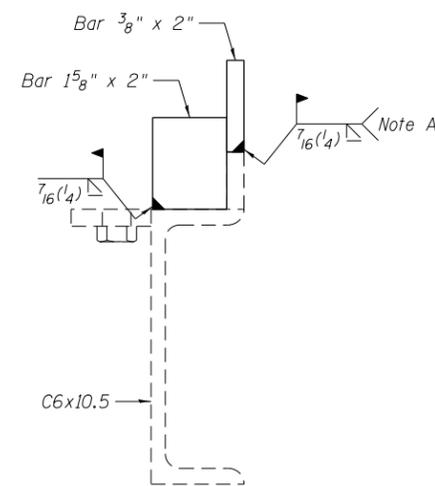
**ADJUSTING SCUPPER RING
PLAN**

NOTES:

1. The adjusting scupper ring shall be galvanized.
2. Bolts shall be 1/2" ϕ , AASHTO M164 Type I, mechanically galvanized.
3. The contractor shall ensure that no damage is done to existing grates to be reused.
4. Shop plans for proposed adjusting scupper ring shall be submitted for approval prior to fabrication.
5. Cost of all labor and materials necessary to remove existing grates, clean existing scuppers, install adjusting scupper rings and reinstalling grates is included in the cost per unit each for Drainage Scupper to be Adjusted.
6. See Sheet 1 of 9 for Scupper locations.



SECTION A-A



SECTION B-B

Note A: Surface of weld shall be recessed 1/16" Max. or placed flush with inside face of bars to provide clearance for Grate.

BILL OF MATERIAL

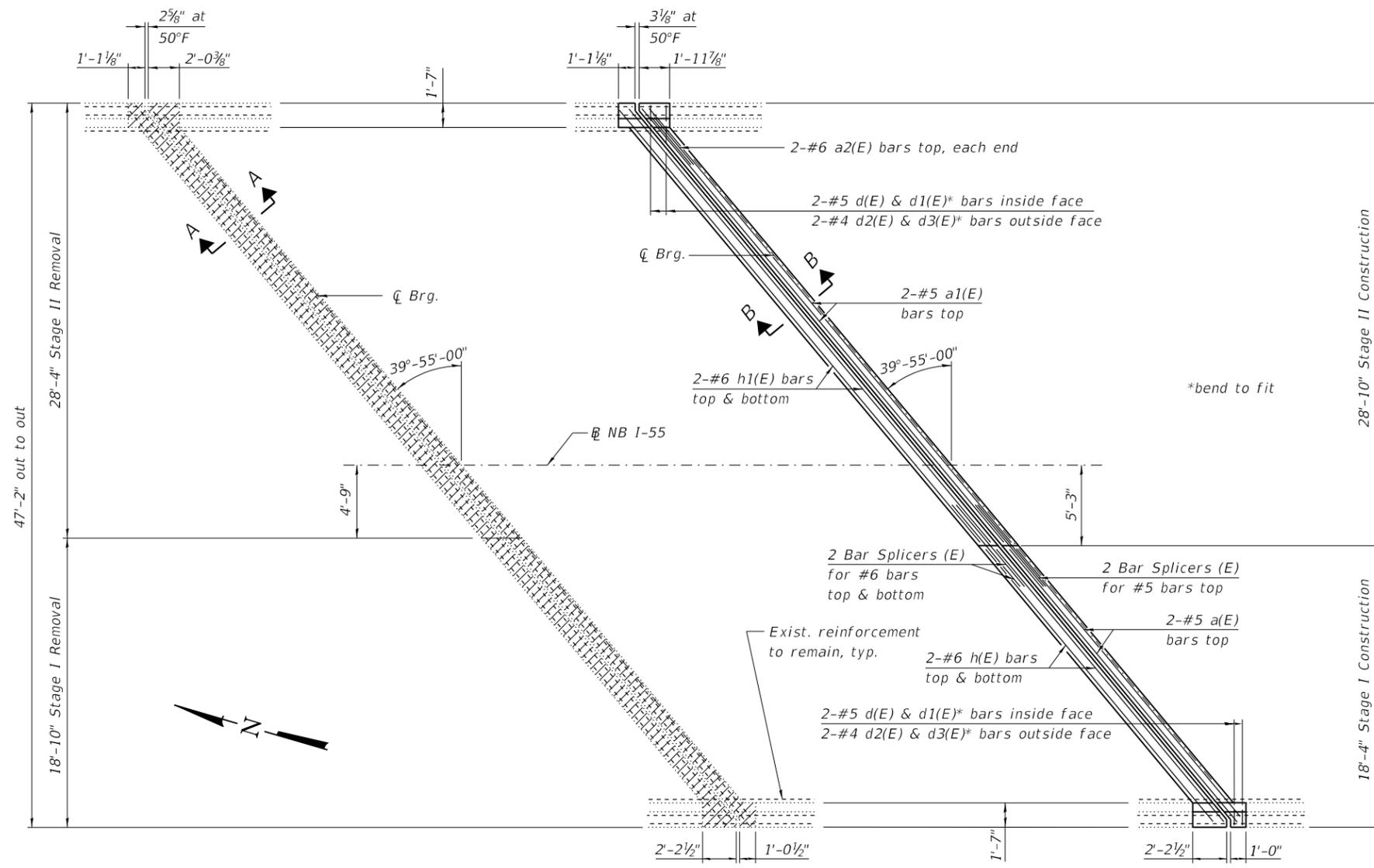
ITEM	UNIT	TOTAL
Drainage Scupper to be Adjusted	Each	2

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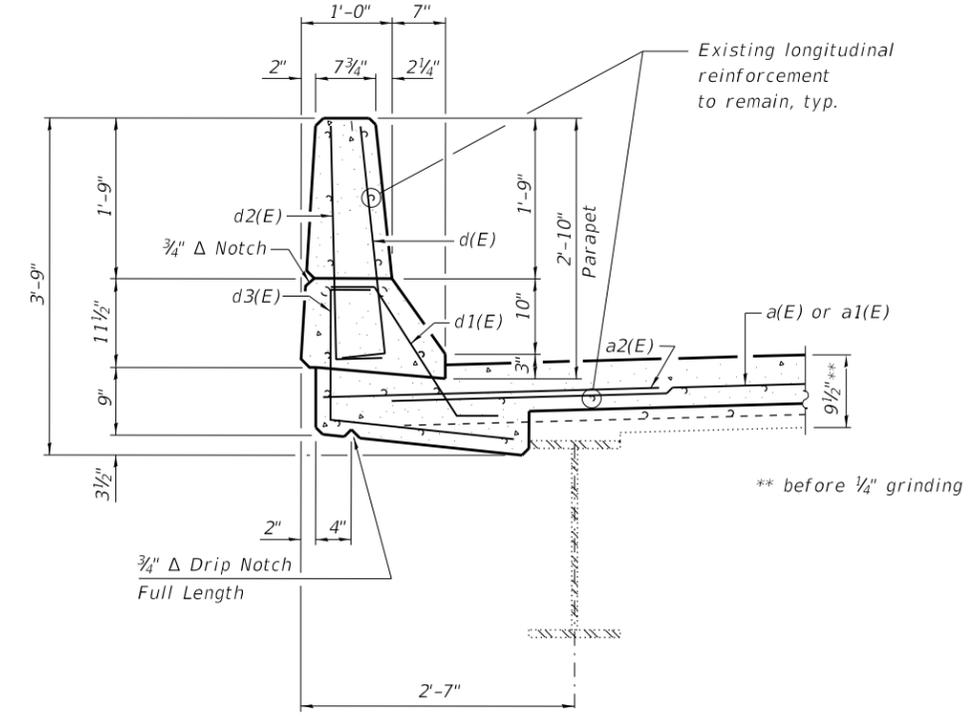
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CONTRACT NO. 72J97				
		ILLINOIS	FED. AID PROJECT	

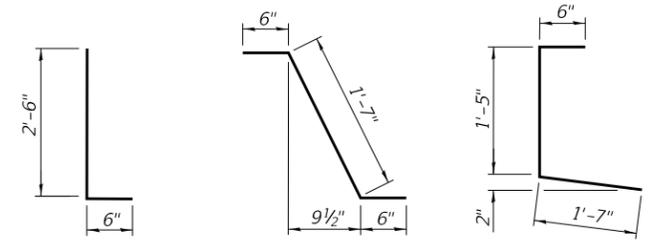
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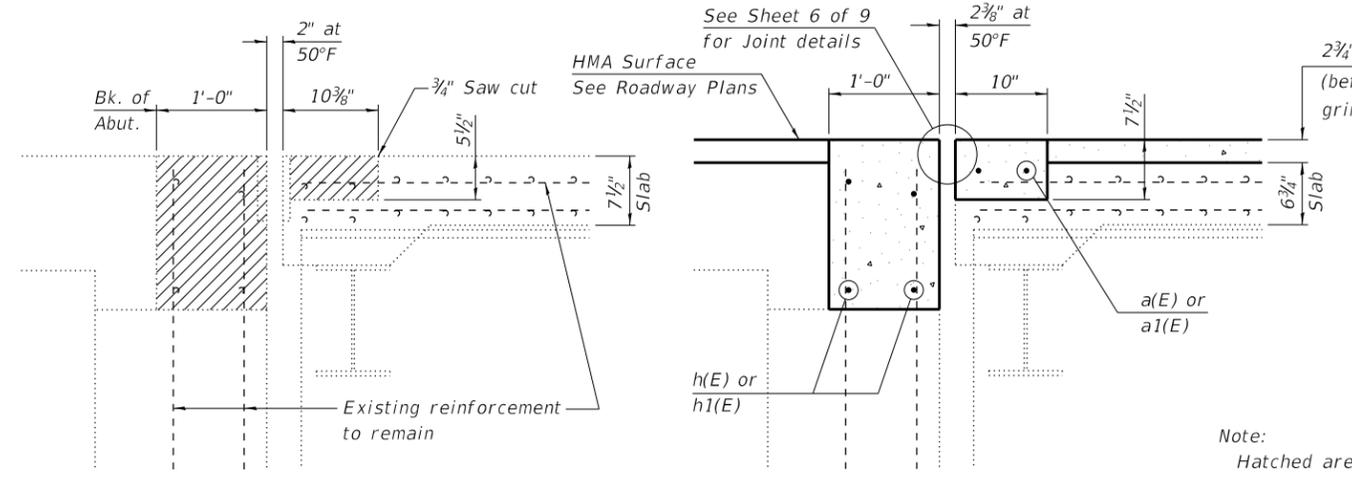
REMOVAL PLAN North Abutment shown.
 South Abutment similar by rotation.
REPLACEMENT PLAN



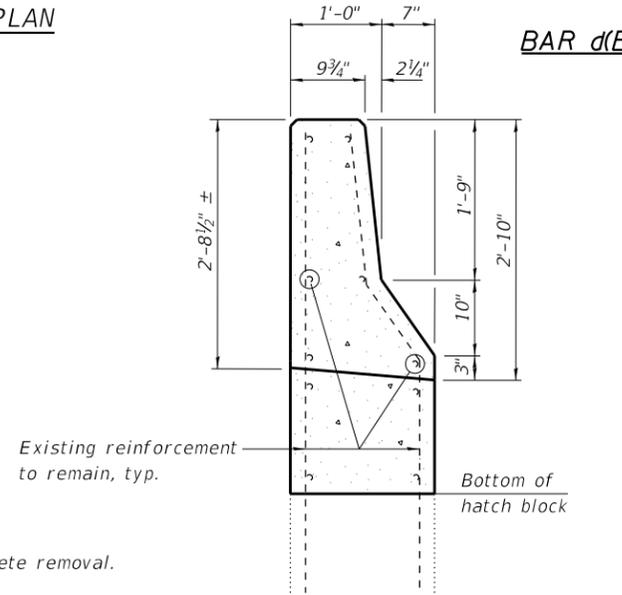
TYPICAL PARAPET SECTION



BAR d(E) & d2(E) **BAR d1(E)** **BAR d3(E)**



SECTION A-A (Dimensions at right angles)
SECTION B-B (Dimensions at right angles)



SECTION THRU APPROACH PARAPET

BILL OF MATERIAL

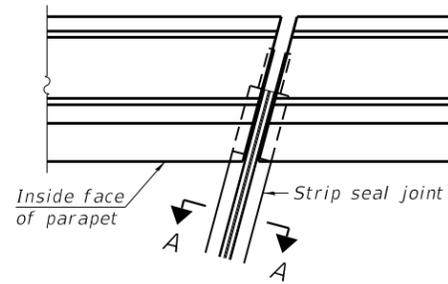
Bar	No.	Size	Length	Shape
a(E)	4	#5	22'-10"	—
a1(E)	4	#5	36'-7"	—
a2(E)	8	#6	4'-0"	—
d(E)	8	#5	3'-0"	┌
d1(E)	8	#5	2'-7"	└
d2(E)	8	#4	3'-0"	┌
d3(E)	8	#4	3'-6"	└
h(E)	8	#6	23'-6"	—
h1(E)	8	#6	37'-3"	—
Concrete Removal			Cu. Yds.	10.0
Concrete Superstructure			Cu. Yds.	11.3
Reinforcement Bars, Epoxy Coated			Lbs.	1,110

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

JOINT REPLACEMENT DETAILS
STRUCTURE NO. 084-0020

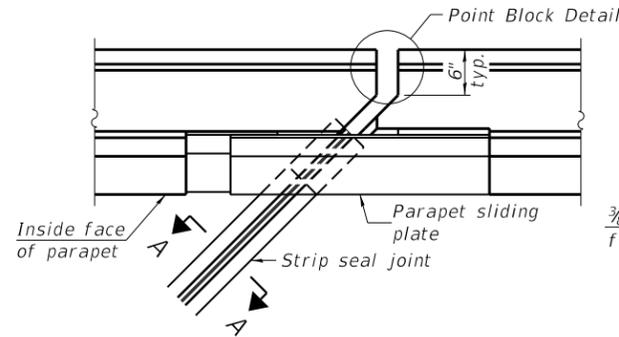
SHEET 5 OF 9 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 72J97				
ILLINOIS FED. AID PROJECT				

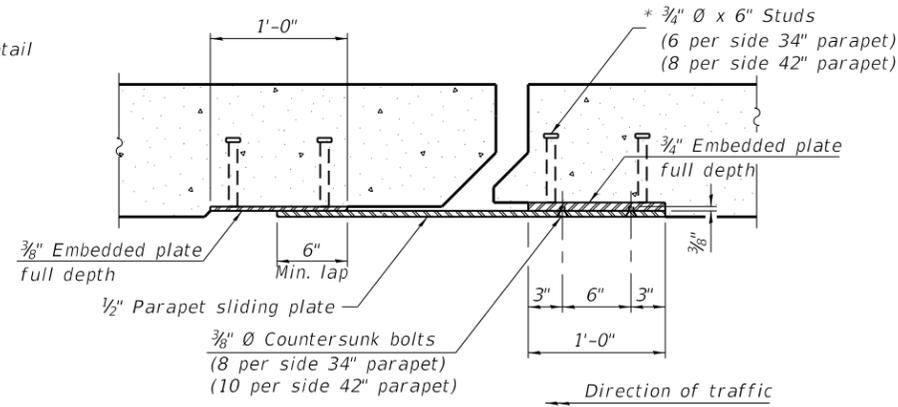


FOR SKEWS $\leq 30^\circ$

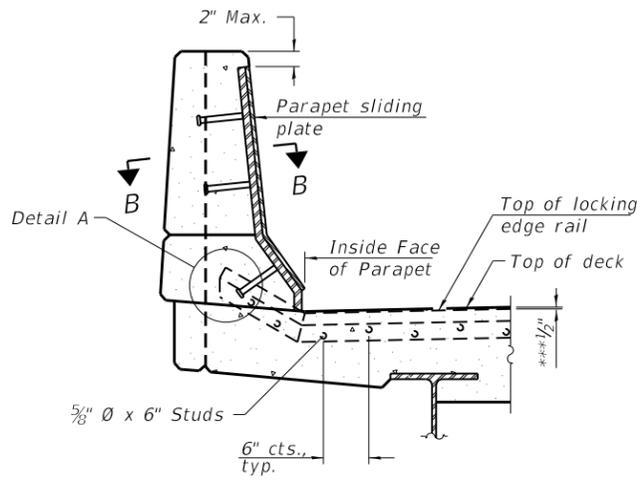
PLAN AT PARAPET



FOR SKEWS $> 30^\circ$

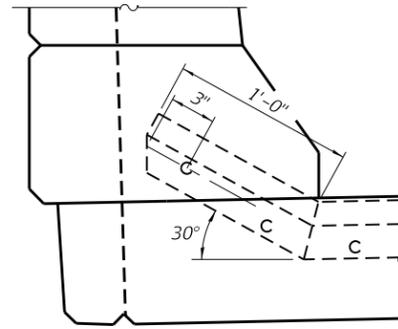


SECTION B-B

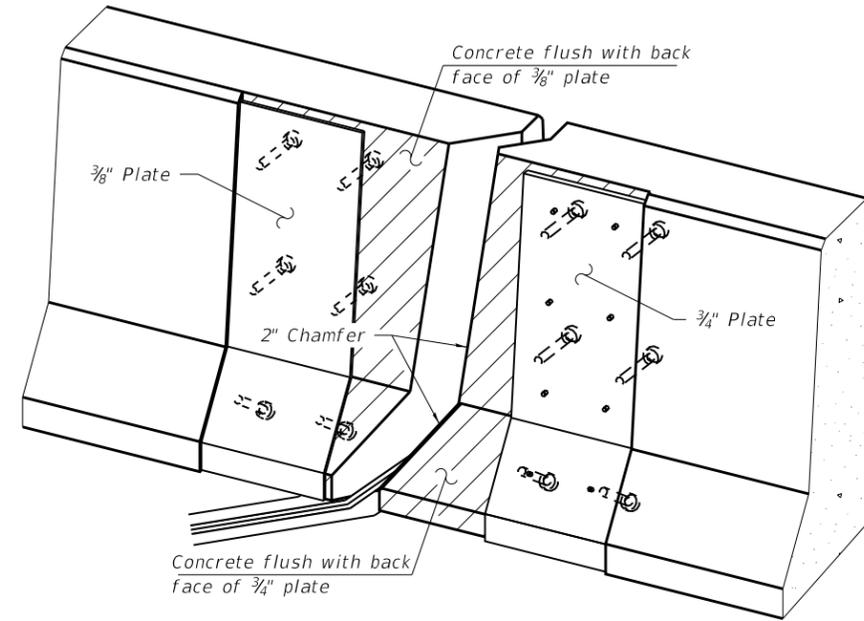


ELEVATION AT PARAPET

(Skews $> 30^\circ$ shown. Skews $\leq 30^\circ$ similar except as shown in plan view.)



DETAIL A



TRIMETRIC VIEW
(Showing embedded plates only)

Notes:

The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the locking edge rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.

The locking edge rails depicted are configured for typical applications and are conceptual only. The actual configuration of the locking edge rails and matching strip seal may vary from manufacturer to manufacturer provided they fit the application and meet the minimum anchorage shown. Flanged edge rails, however, will not be allowed. Locking edge rails may exceed the 4 1/2" maximum depth provided the anchorage system is revised according to the manufacturer's recommendation.

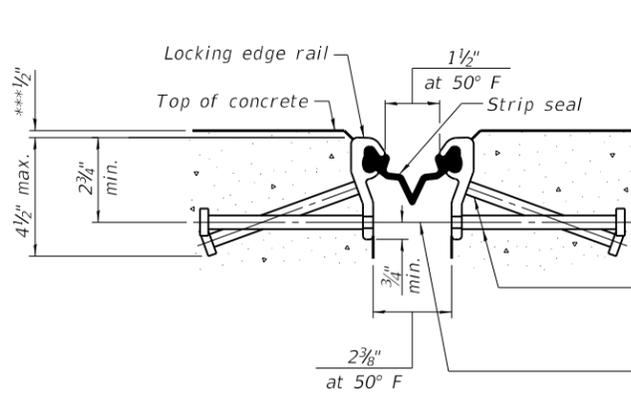
The manufacturer's recommended installation methods shall be followed.

All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

The Maximum space between locking edge rail segments shall be 3/16" and sealed with a suitable sealant; however, any rail joint within 10' measured perpendicular to the face of the curb or parapet shall be welded as shown in the locking edge rail splice detail.

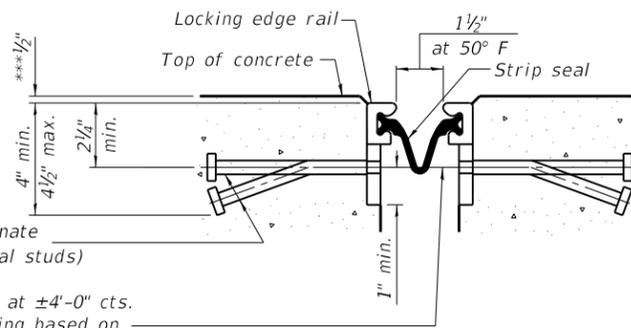
Cost of parapet sliding plates, embedded plates, and anchorage studs included with Preformed Joint Strip Seal.

34" F-shape barrier shown, 42" F-shape similar as noted. The concrete opening below the strip seal will vary based on the locking edge rail chosen by the Contractor. Deck and parapet lengths shown elsewhere in the plans are dimensioned to the concrete opening, not the joint opening, and are based on the rolled locking edge rail. If the Contractor elects to use a different locking edge rail, dimensional adjustments may be required. One exception to this would be the strip seal joint at the end of the precast bridge approach slab. For these cases the pavement connector length shall be adjusted, not the length of the bridge approach slab.



SHOWING ROLLED RAIL JOINT

***Prior to 1/4" grinding



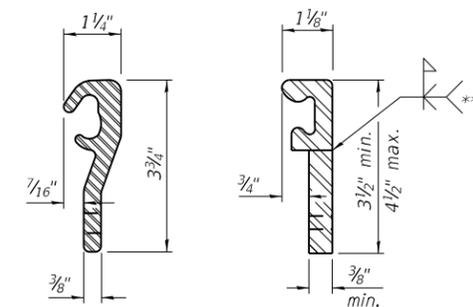
SHOWING WELDED RAIL JOINT

* 3/8" ϕ x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)

3/8" ϕ threaded rods in 7/16" ϕ holes at ± 4 -0" cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

SECTION A-A

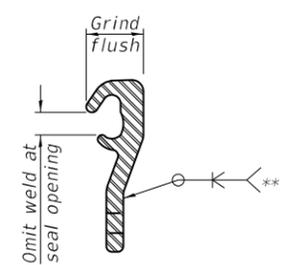
* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.



LOCKING EDGE RAILS

LOCKING EDGE RAILS

** Back gouge not required if complete joint penetration is verified by mock-up.



LOCKING EDGE RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue. Rolled rail shown, welded rail similar.

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	119

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FILE NAME: E:\1030-13\G_5N_084-0020\4_Final Design\Design Plans\CADD_Sheets\084-0020-D672197-006-Strip_Seal_base_sheet.dgn

EJ-SS

8-11-17

LE LIN ENGINEERING, LTD.
Consulting Engineers
Springfield, Illinois

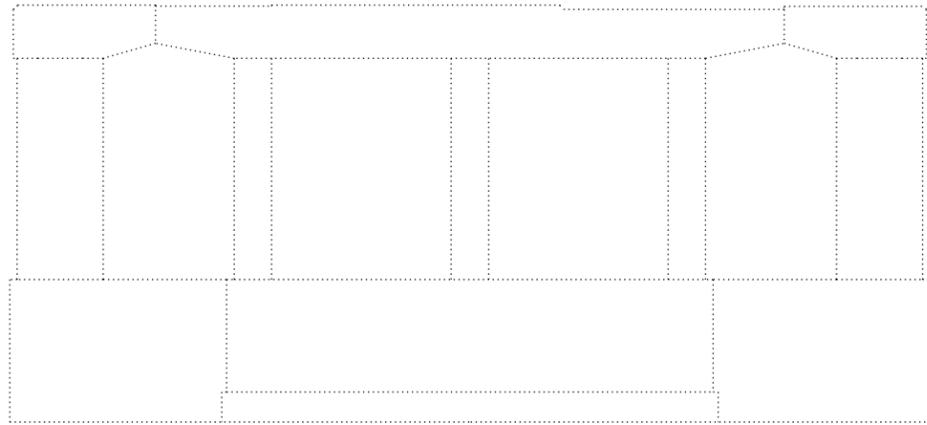
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

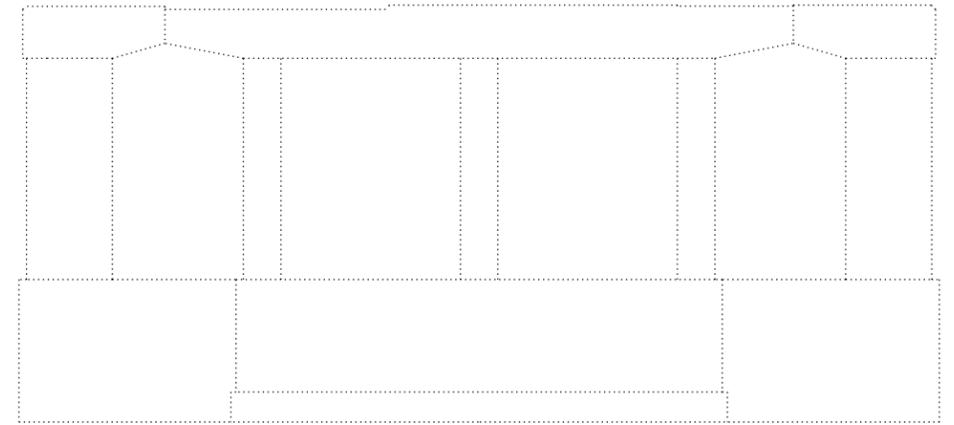
PREFORMED JOINT STRIP SEAL
STRUCTURE NO. 084-0020

SHEET 6 OF 9 SHEETS

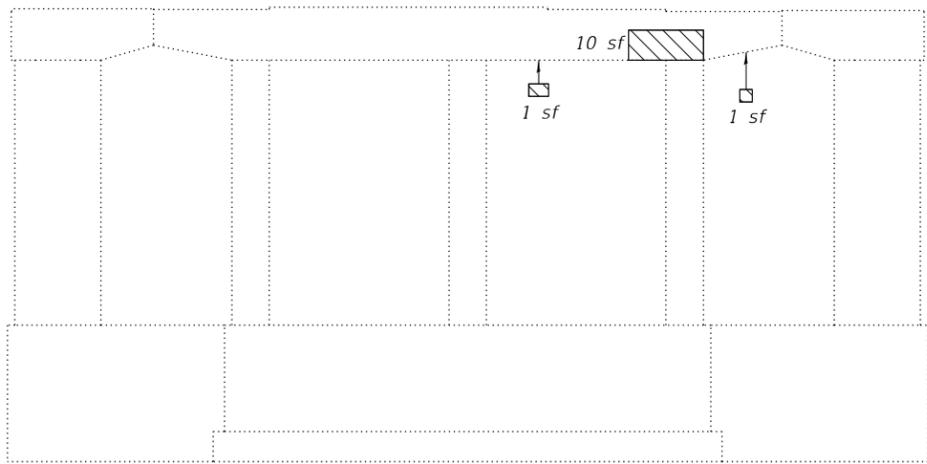
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CONTRACT NO. 72J97				
ILLINOIS FED. AID PROJECT				



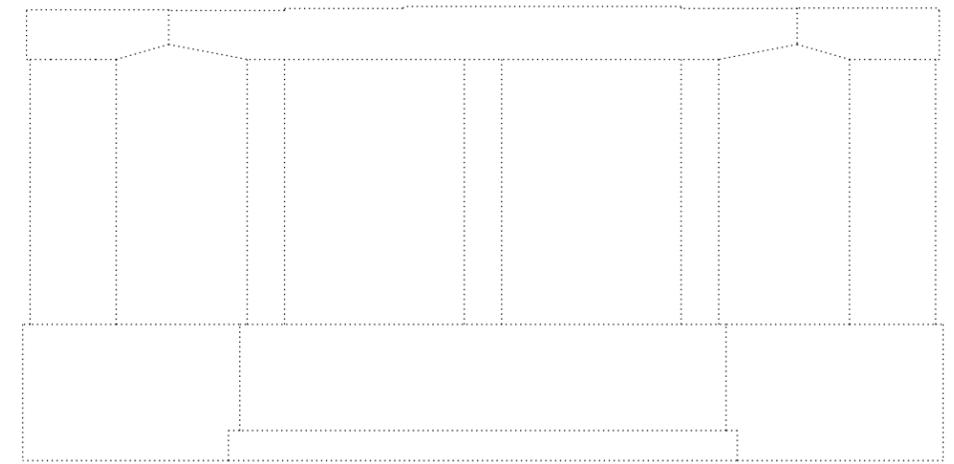
PIER 1 ELEVATION
(Looking North)



PIER 1 ELEVATION
(Looking South)



PIER 2 ELEVATION
(Looking North)



PIER 2 ELEVATION
(Looking South)

LEGEND

 Structural Repair of Concrete (Depth Equal To or Less Than 5in.)

sf Square Feet

Note:
Repair of existing piers shall include but may not be limited to the areas shown. The actual areas to be repaired shall be determined by the Engineer at time of construction.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structural Repair of Concrete (Depth Equal To or Less Than 5 Inches)	Sq. Ft.	12

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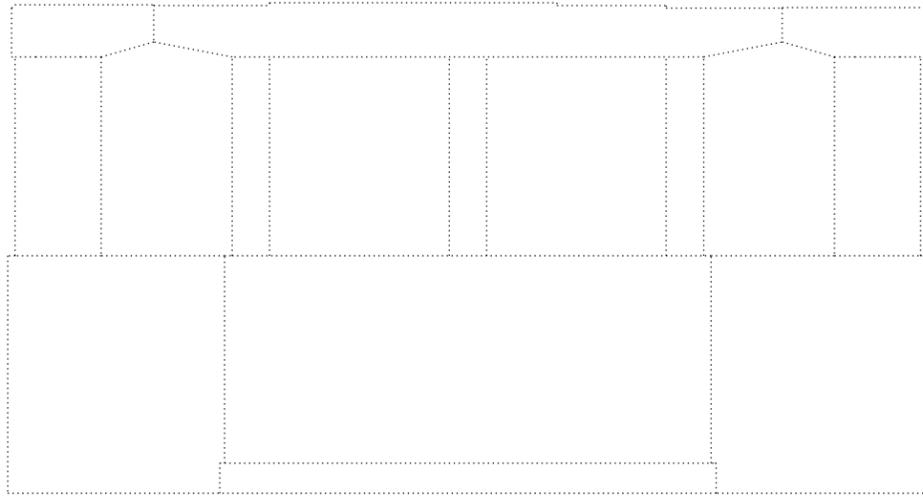
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

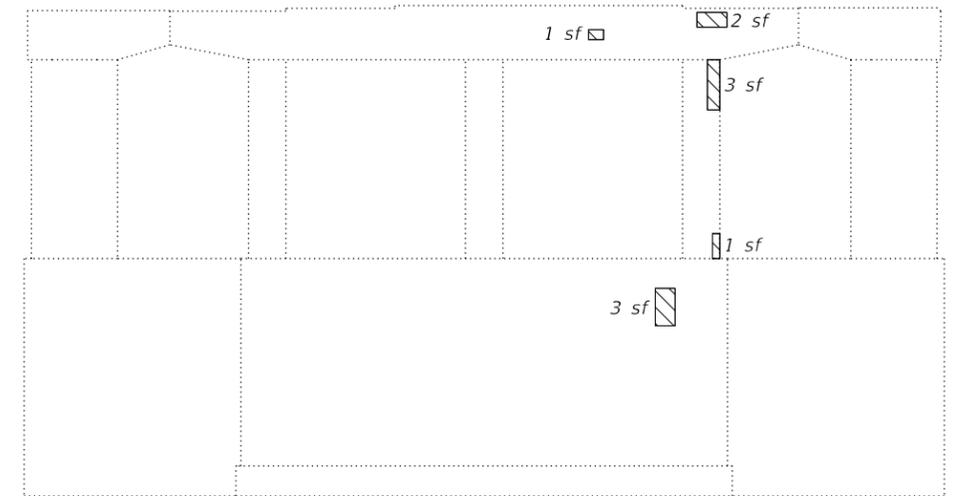
**PIER REPAIR DETAILS-1
STRUCTURE NO. 084-0020**

SHEET 7 OF 9 SHEETS

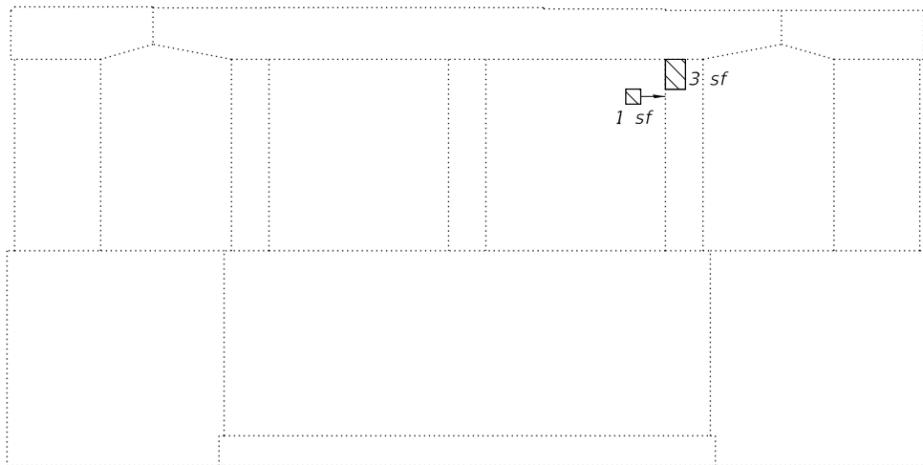
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 72J97				
		ILLINOIS	FED. AID PROJECT	



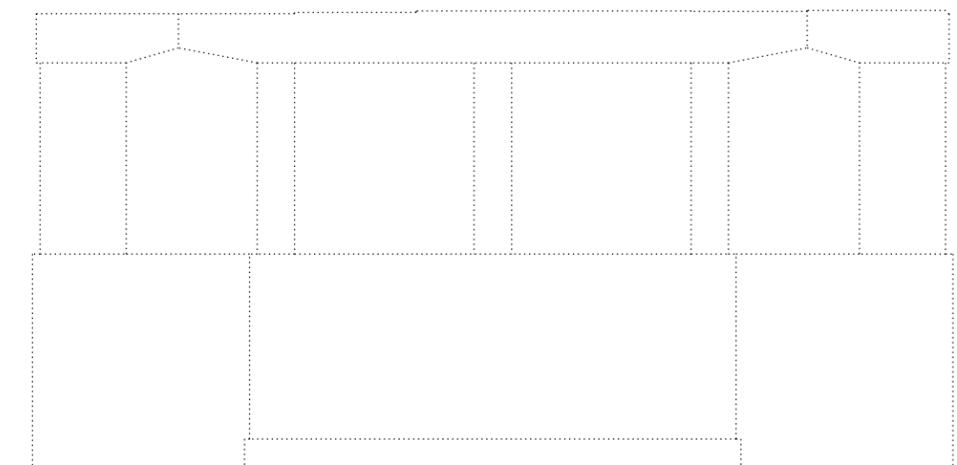
PIER 3 ELEVATION
(Looking North)



PIER 3 ELEVATION
(Looking South)



PIER 4 ELEVATION
(Looking North)



PIER 4 ELEVATION
(Looking South)

LEGEND

- Structural Repair of Concrete (Depth Equal To or Less Than 5in.)
- sf Square Feet

Note:
Repair of existing piers shall include but may not be limited to the areas shown. The actual areas to be repaired shall be determined by the Engineer at time of construction.

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structural Repair of Concrete (Depth Equal To or Less Than 5 Inches)	Sq. Ft.	14

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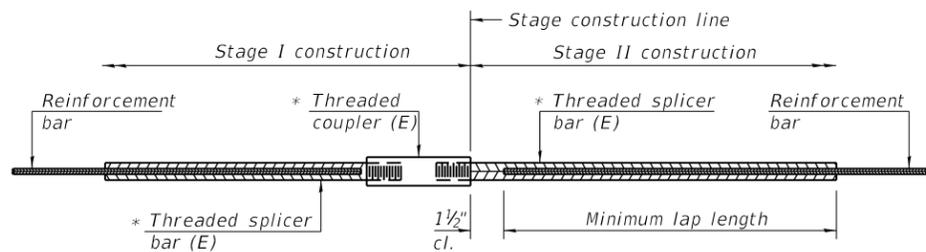
LE LIN ENGINEERING, LTD. Consulting Engineers Springfield, Illinois	USER NAME =	DESIGNED - MTH	REVISED -
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	PLOT DATE =	CHECKED - MTH	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER REPAIR DETAILS-2
STRUCTURE NO. 084-0020

SHEET 8 OF 9 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 72J97				
		ILLINOIS	FED. AID PROJECT	

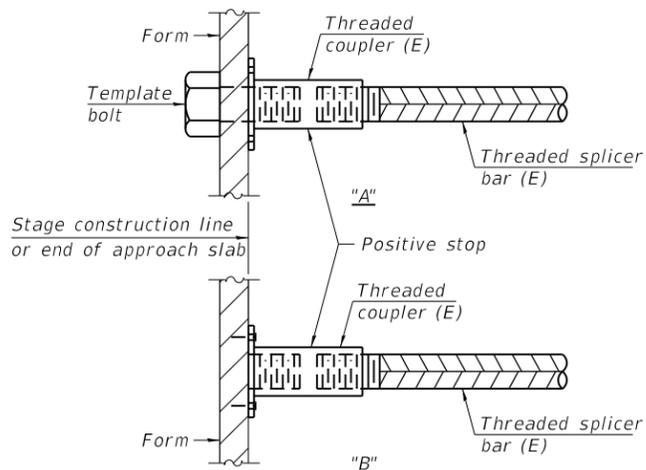


STANDARD BAR SPLICER ASSEMBLY

Threaded splicer bar length = min. lap length + 1 1/2" + thread length

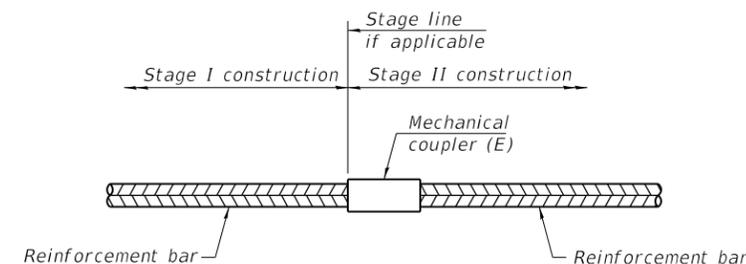
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
North Abutment	#5	8	3'-6"
North Abutment	#6	4	4'-0"
South Abutment	#5	8	3'-6"
South Abutment	#6	4	4'-0"



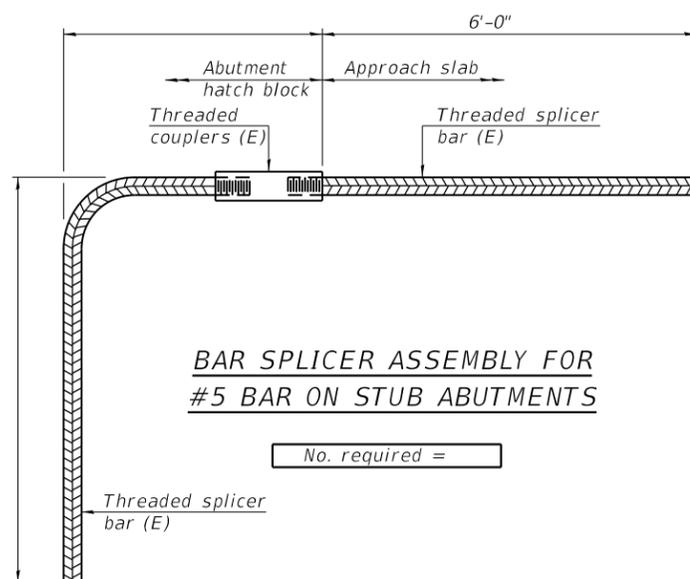
INSTALLATION AND SETTING METHODS

"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.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. 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.

MODEL: Default
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BSD-1

2-17-2017



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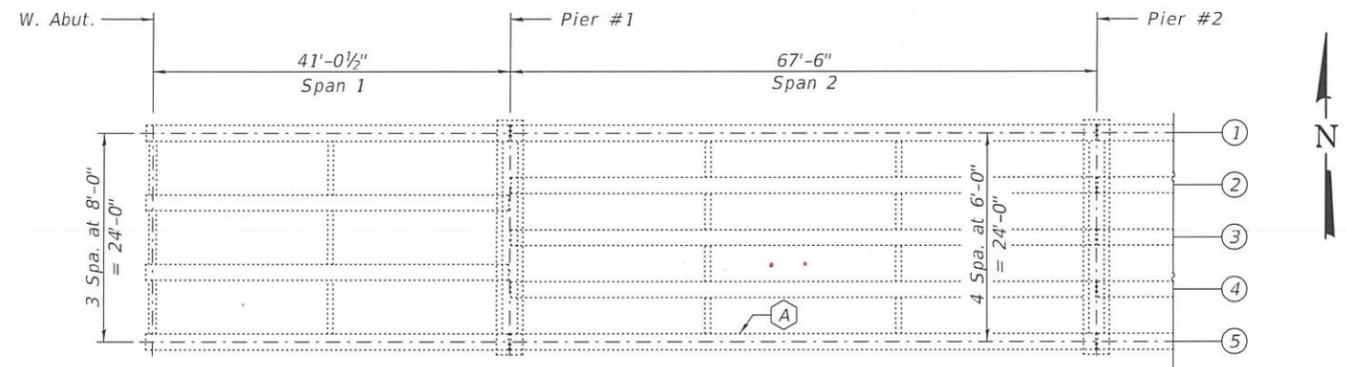
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
 STRUCTURE NO. 084-0020

SHEET 9 OF 9 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(84-2) & (84-3) BRR	SANGAMON	98	91
CONTRACT NO. 72J97				

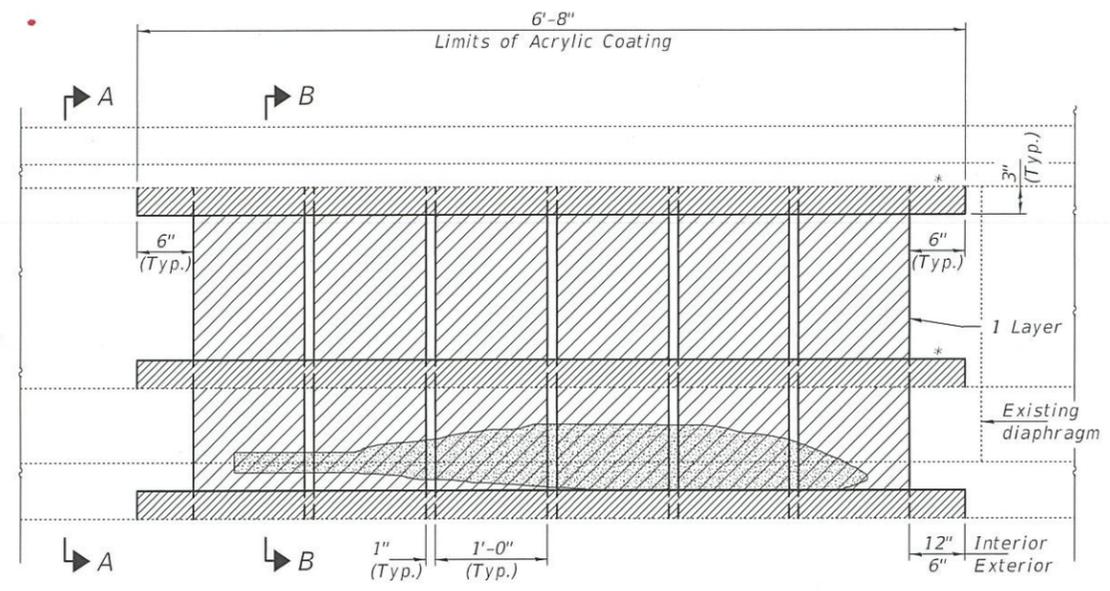
ILLINOIS FED. AID PROJECT



PARTIAL PLAN

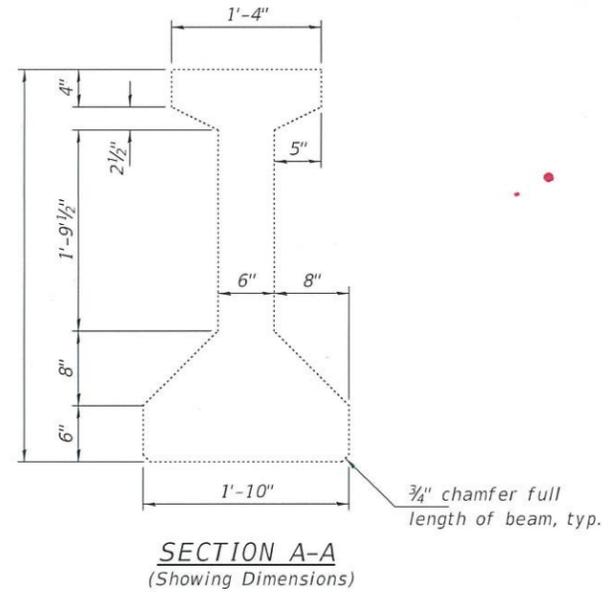
A - Area of Fiber Wrap repair.

Fiber Wrap
I-Beam Repair

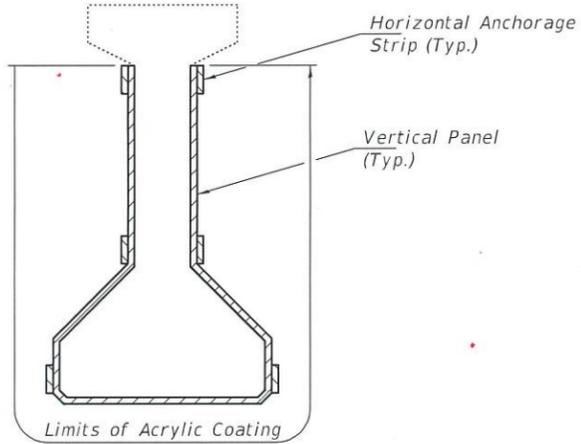


LOCATION "A" ELEVATION
(Beam 5 - Looking South)

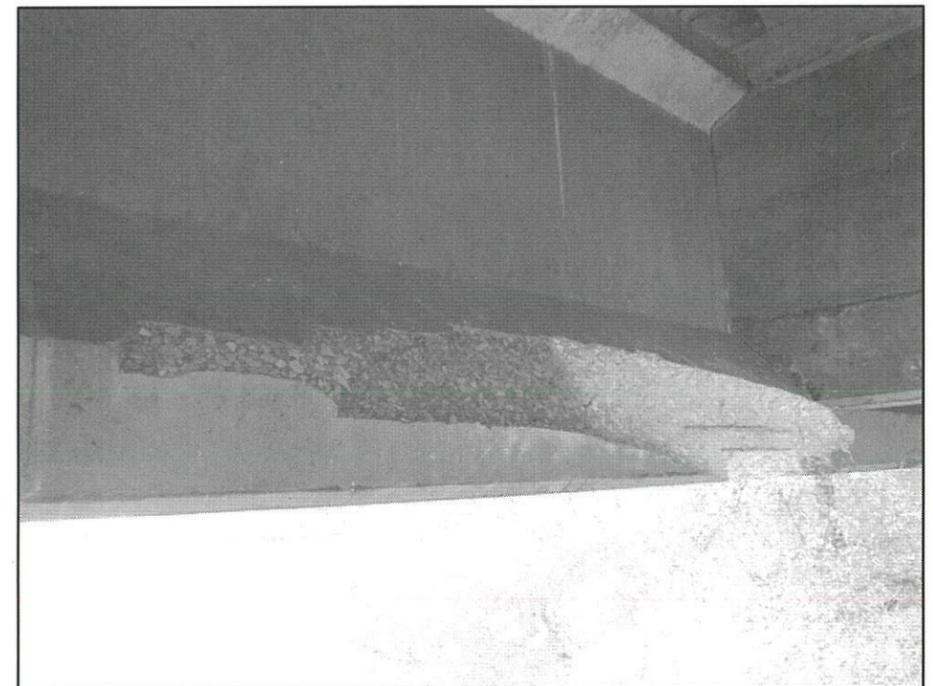
* Wrap interior horizontal anchorage strips onto diaphragm.



SECTION A-A
(Showing Dimensions)



SECTION B-B



LOCATION "A" DAMAGE

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Fiber Wrap	Sq. Ft.	60.6
Acrylic Coating	Sq. Yd.	6.2
Precast Prestressed Concrete I-Beam Repair	Sq. Ft.	3.7

Notes:
 The Contractor shall use extreme care during concrete removal so as not to damage the PPC I-Beam.
 The existing concrete surface shall be cleaned and prepared in accordance with the Special Provisions.
 Acrylic coating shall be placed over fiber wrap repairs. Two coats shall be applied.
 See Special Provisions for "FRP strengthening for PPC I-Beam Repair."
 See Special Provisions for "Precast Prestressed Concrete I-Beam Repair."



Seal applies to this sheet only.

EXPIRES 11-30-2020

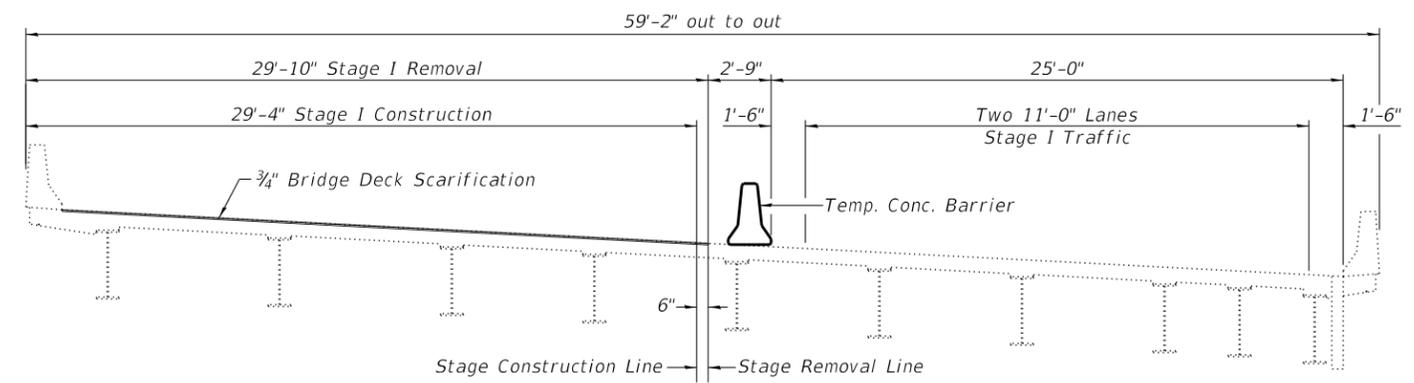
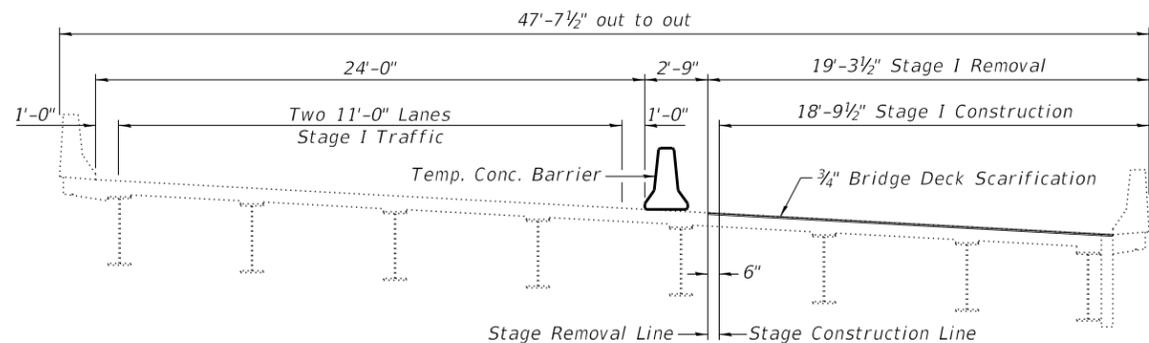
DESIGNED - <i>W. S. B. Halloway</i>	EXAMINED - <i>Tim A. Puzey</i>	DATE - JANUARY 14, 2019
CHECKED - <i>daburdell</i>	PASSED - <i>David Carl Puzey</i>	REVISED -
CHECKED - <i>JSB</i>		REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REPAIR DETAILS
COOK ST. OVER FAI 55
SN 084-0103

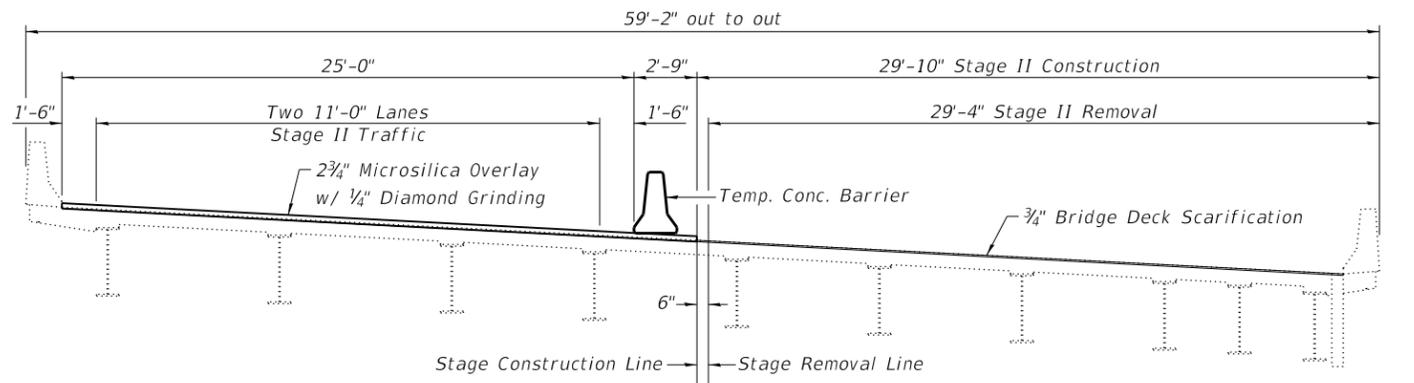
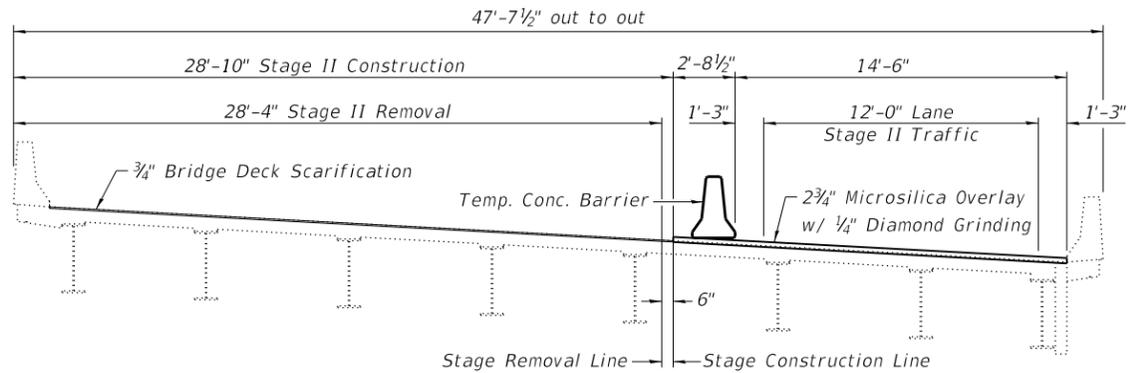
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(84-3-2) RS-2, BP, BDR	SANGAMON	98	91A
CONTRACT NO. 72J97				
ILLINOIS FED. AID PROJECT				

SHEET NO. 8A OF 8 SHEETS



STAGE I REMOVAL & CONSTRUCTION

(Looking West)



STAGE II REMOVAL & CONSTRUCTION

(Looking West)

GENERAL NOTES

No field welding is permitted except as specified in the contract documents. Reinforcement bars designated (E) shall be epoxy coated. Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. 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 the existing concrete. 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. Cleaning and field painting of structural steel shall be done under a separate painting contract. The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project. 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. Joint openings shall be adjusted according to Article 520.04 of the Std. Specs. when the deck is poured at an ambient temperature other than 50° F. Synthetic fibers shall be added to the Bridge Deck Microsilica Concrete Overlay. See Special Provisions.

Note:
See Roadway Plans for Temporary Concrete Barrier quantities.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SN 084-0022	SN 084-0023	TOTAL
Concrete Removal	Cu. Yd.	7.2	8.7	15.9
Concrete Superstructure	Cu. Yd.	8.2	10.0	18.2
Protective Coat	Sq. Yd.	859	1,052	1,911
Reinforcement Bars, Epoxy Coated	Pound	900	1,090	1,990
Bar Splicers	Each	12	12	24
Preformed Joint Strip Seal	Foot	94	118	212
Controlled Low Strength Material	Cu. Yd.	0	3.0	3.0
Bridge Deck Grooving (Longitudinal)	Sq. Yd.	694	883	1,577
Bridge Deck Scarification 3/4"	Sq. Yd.	713	900	1,613
Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)	Sq. Ft.	0	12	12
Bridge Deck Microsilica Concrete Overlay, 2 3/4"	Sq. Yd.	713	900	1,613
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	0	1.0	1.0
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	20.0	75.0	95.0
Approach Slab Repair (Partial Depth)	Sq. Yd.	3.0	2.9	5.9
Diamond Grinding (Bridge Section)	Sq. Yd.	675	868	1,543

* Apply to top and inside faces of parapets, and to top of deck slab including new concrete adjacent to expansion joints.

MODEL: Default
FILE NAME: EX1030-13(G).SN.084-0022 & 0023(4).Final.Design.Design.Plans\CADD_Sheets\084-0022&0023-D67297-002-GeneralData.dgn

LE LIN ENGINEERING, LTD.
Consulting Engineers
Springfield, Illinois

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PLOT DATE =	DRAWN - DAS	REVISED -
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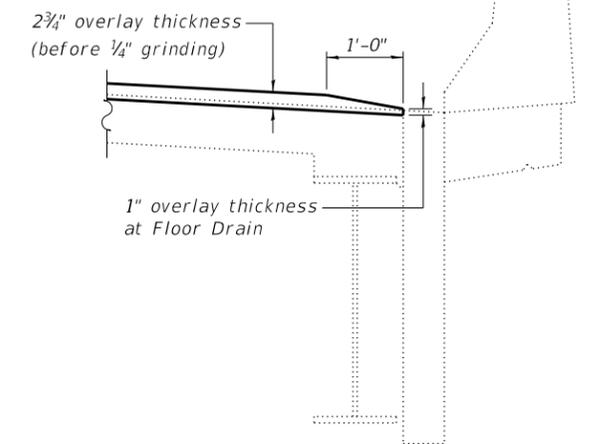
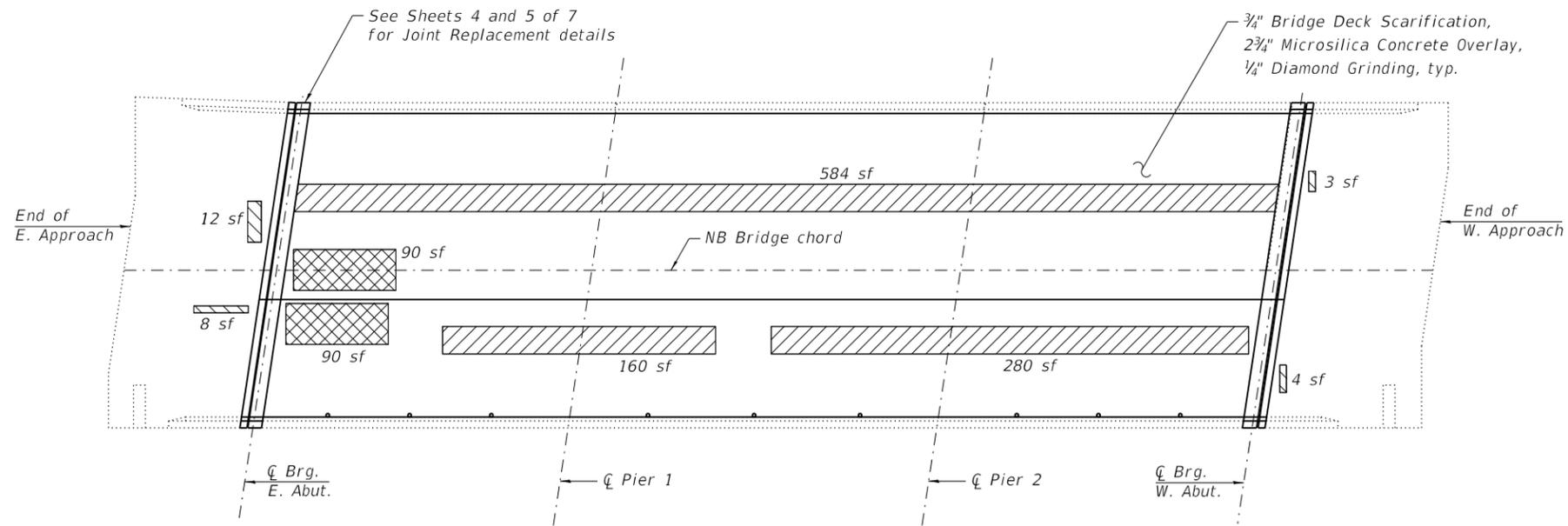
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL DATA
STRUCTURE NOS. 084-0022 & 084-0023**

SHEET 2 OF 7 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(84-2) & (84-3) BRR	SANGAMON	98	93
CONTRACT NO. 72J97				
ILLINOIS FED. AID PROJECT				

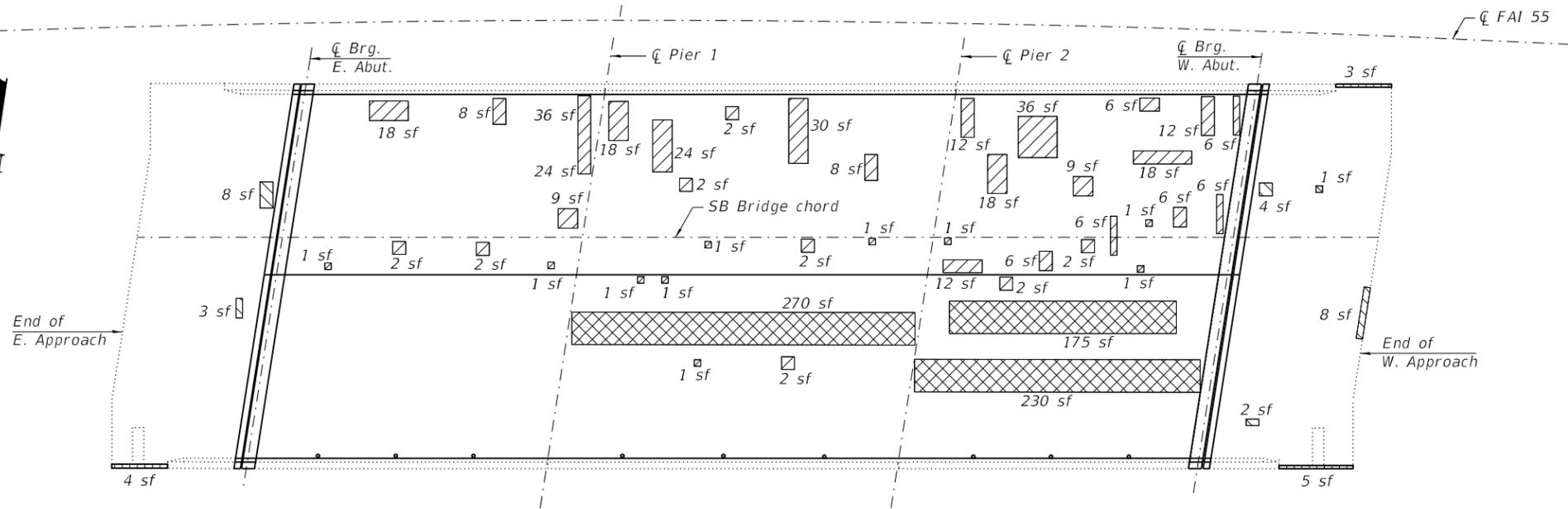
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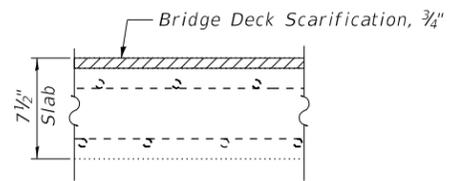
OVERLAY AT DRAIN

BILL OF MATERIAL

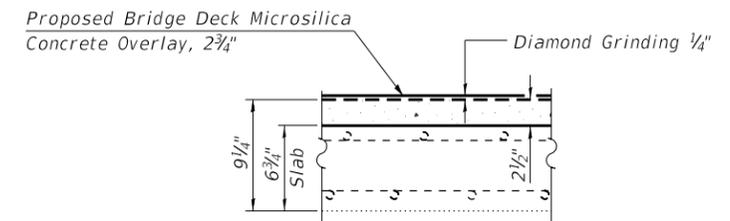
ITEM	UNIT	TOTAL
Approach Slab Repair (Partial Depth)	Sq. Yd.	5.9
Deck Slab Repair (Partial Depth)	Sq. Yd.	153.4
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	1.0
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	95.0
Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)	Sq. Ft.	12



DECK PLAN



EXISTING BRIDGE DECK CROSS SECTION



PROPOSED BRIDGE DECK CROSS SECTION

Notes:
 Areas of deck repairs shown are estimated. The Engineer shall document actual locations of deck repairs on As-Built Plans.
 Quantity listed for Deck Slab Repair (Partial) is for information only. See Bridge Deck Microsilica Concrete Overlay Special Provisions.

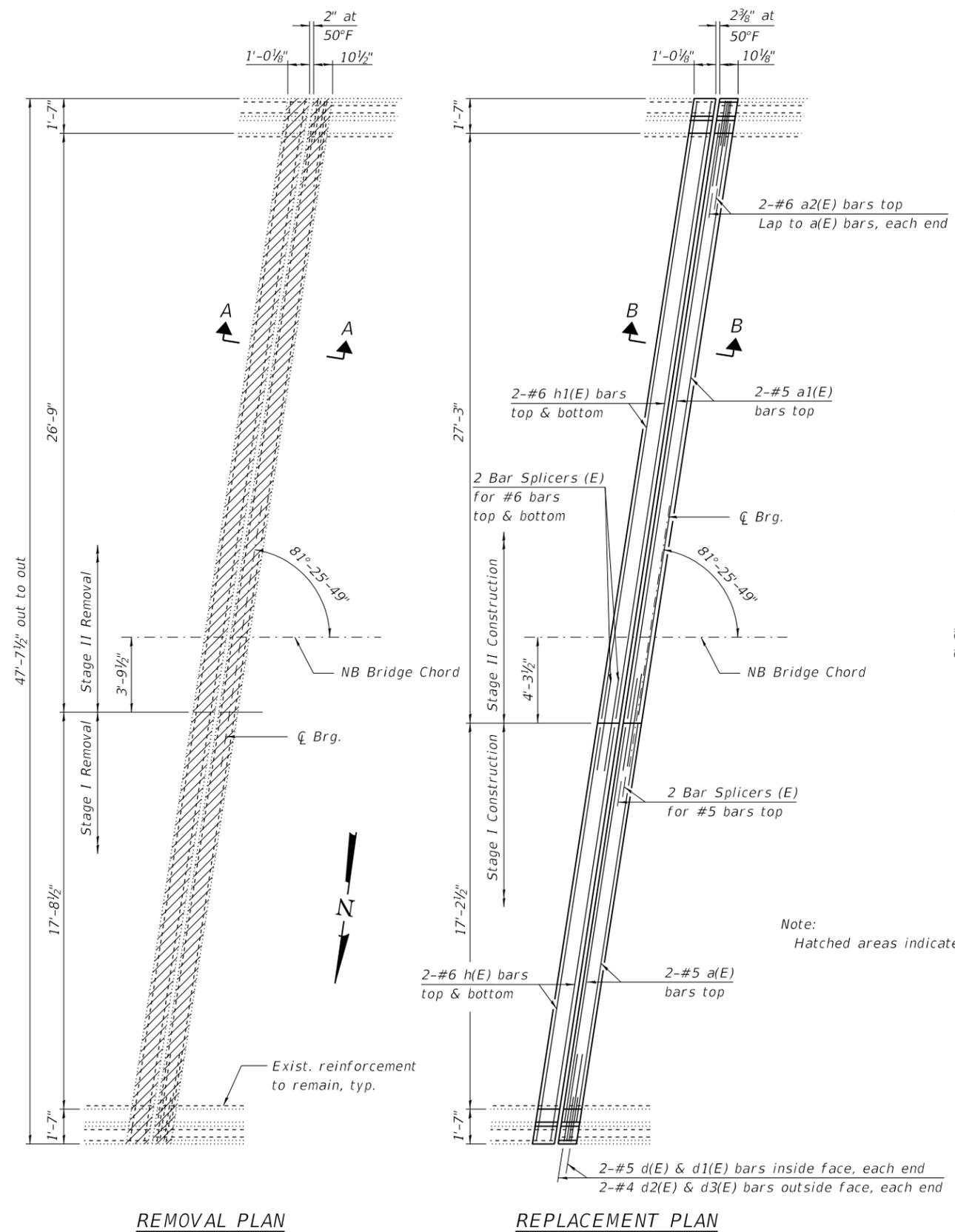
LEGEND

- Indicates Approach Slab Repair (Partial Depth)
 - Indicates Deck Slab Repair (Partial) (For information only)
 - Indicates Deck Slab Repair (Full Depth)
 - Indicates Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)
- sf - Square Feet

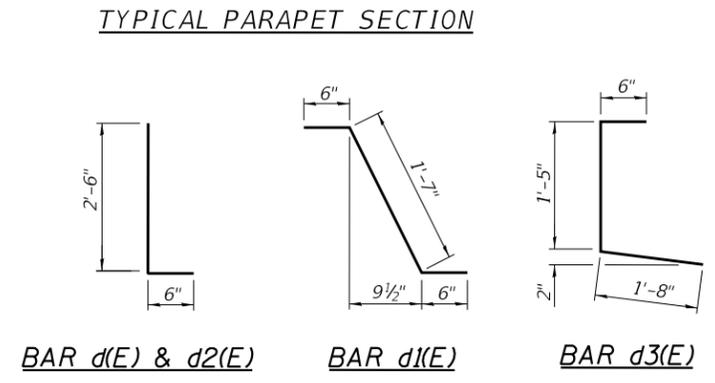
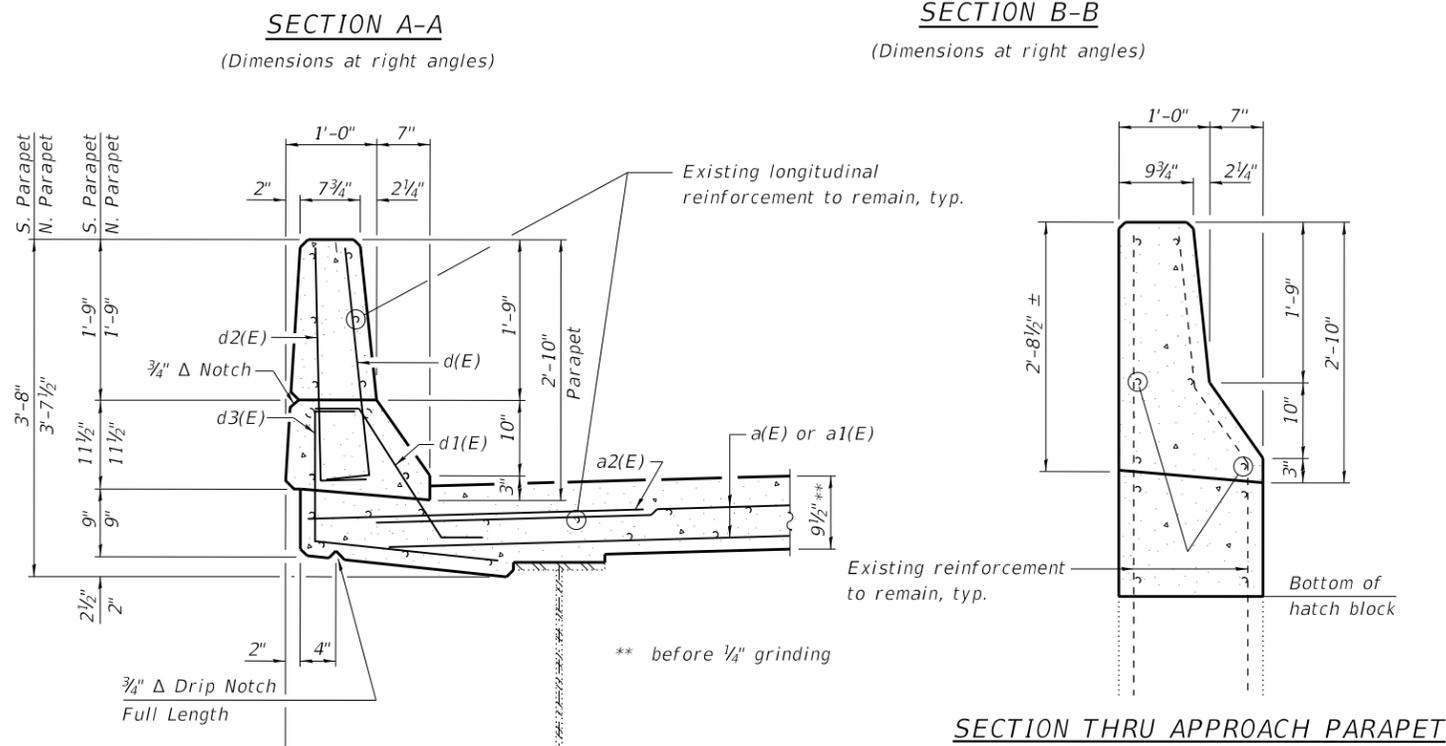
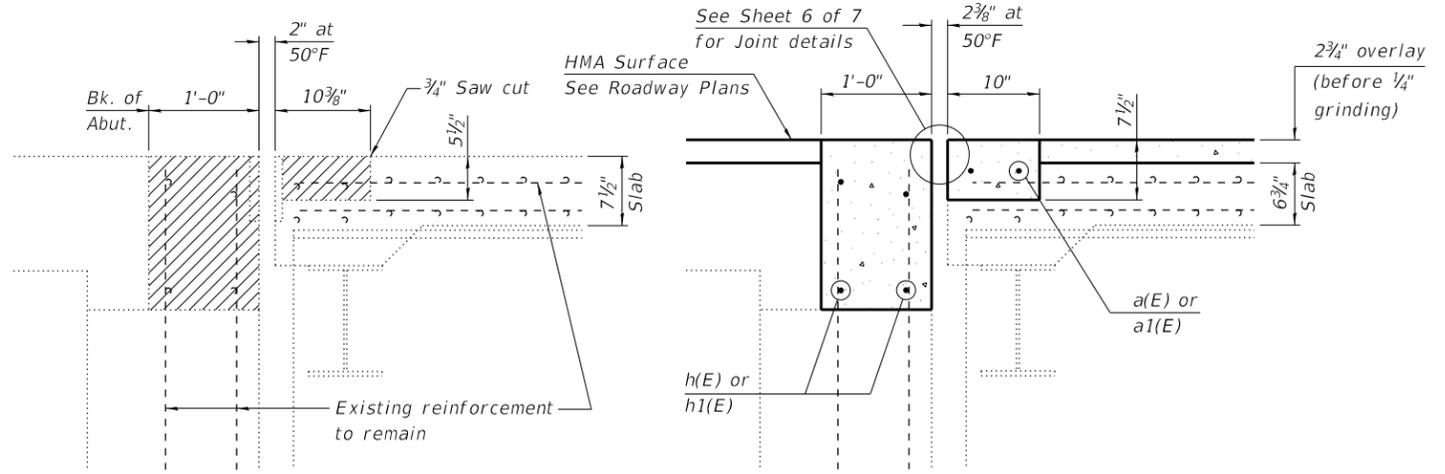
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PLOT DATE =	CHECKED - MTH	REVISED -

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(84-2) & (84-3) BRR	SANGAMON	98	94
CONTRACT NO. 72J97				

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East Abutment shown.
 West Abutment similar by rotation.



BILL OF MATERIAL
 SN 084-0022

Bar	No.	Size	Length	Shape
a(E)	4	#5	18'-0"	—
a1(E)	4	#5	28'-2"	—
a2(E)	8	#6	4'-0"	—
d(E)	8	#5	3'-0"	┌
d1(E)	8	#5	2'-7"	└
d2(E)	8	#4	3'-0"	┌
d3(E)	8	#4	3'-7"	└
h(E)	8	#6	18'-8"	—
h1(E)	8	#6	28'-10"	—
Concrete Removal		Cu. Yds.	7.2	
Concrete Superstructure		Cu. Yds.	8.2	
Reinforcement Bars, Epoxy Coated		Lbs.	900	

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

JOINT REPLACEMENT DETAILS (SN 084-0022)
 STRUCTURE NOS. 084-0022 & 084-0023

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(84-2) & (84-3) BRR	SANGAMON	98	95
CONTRACT NO. 72J97				

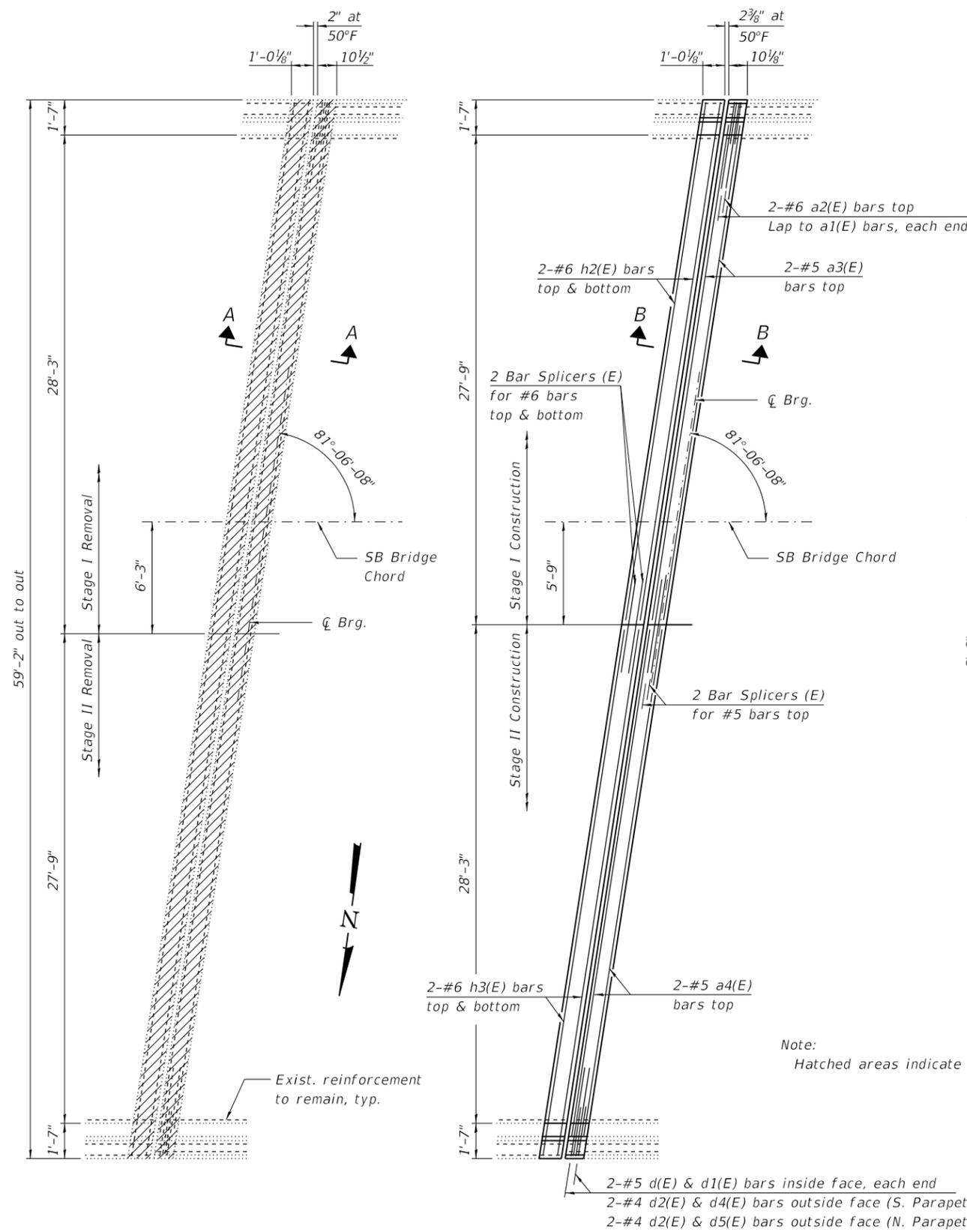
SHEET 4 OF 7 SHEETS

ILLINOIS FED. AID PROJECT



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	VPT	-
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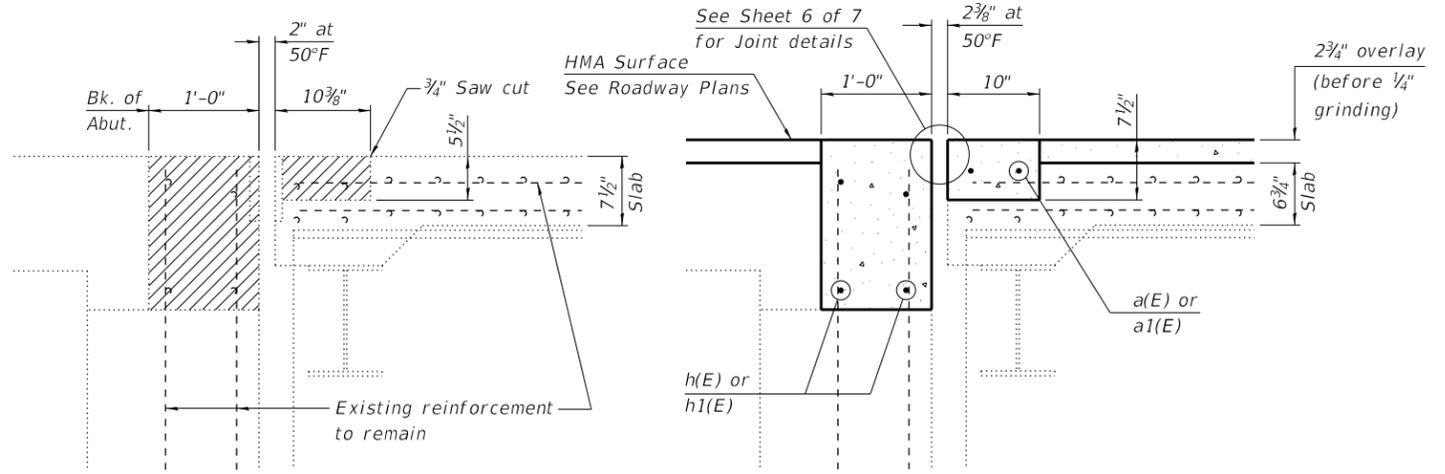


REMOVAL PLAN

REPLACEMENT PLAN

East Abutment shown.
 West Abutment similar by rotation.

Note:
 Hatched areas indicate concrete removal.

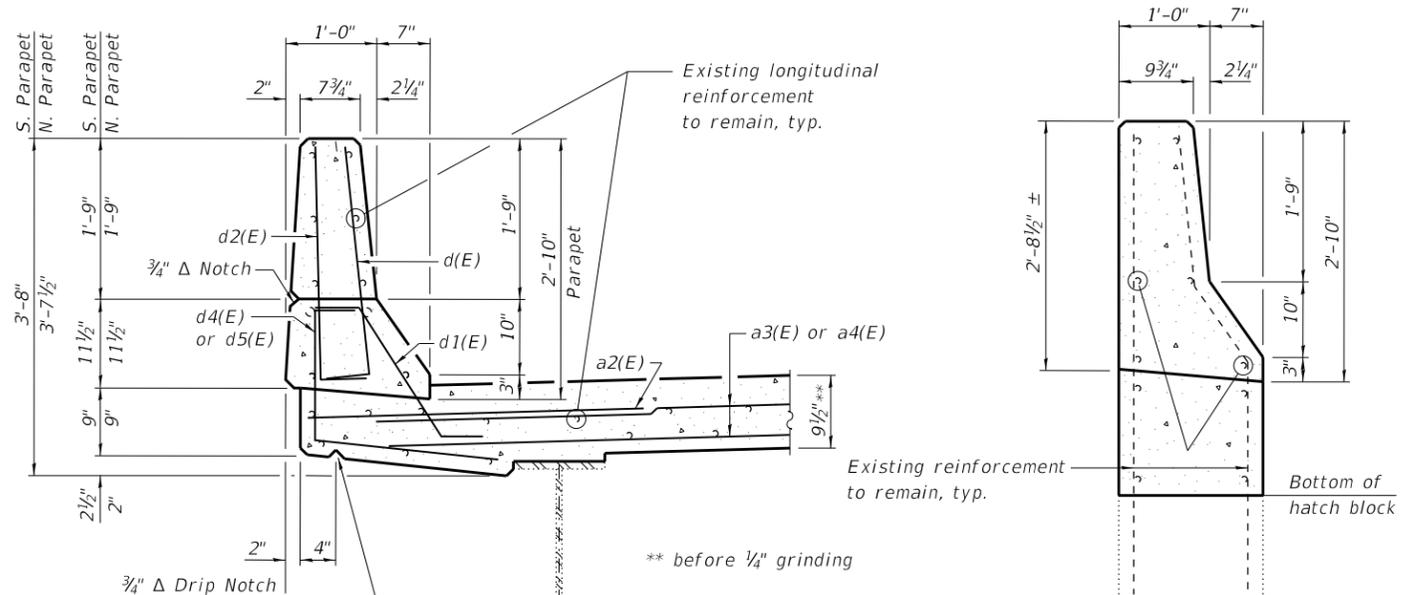


SECTION A-A

(Dimensions at right angles)

SECTION B-B

(Dimensions at right angles)

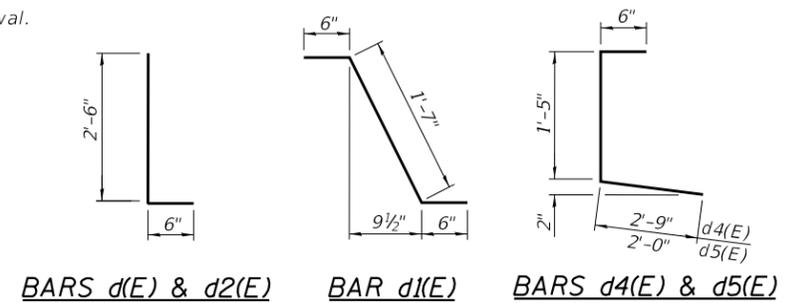


TYPICAL PARAPET SECTION

SECTION THRU APPROACH PARAPET

BILL OF MATERIAL
 SN 084-0023

Bar	No.	Size	Length	Shape
a2(E)	8	#6	4'-0"	—
a3(E)	4	#5	28'-8"	—
a4(E)	4	#5	29'-2"	—
d(E)	8	#5	3'-0"	┌
d1(E)	8	#5	2'-7"	└
d2(E)	8	#4	3'-0"	┌
d4(E)	4	#4	4'-8"	└
d5(E)	4	#4	3'-11"	└
h2(E)	8	#6	29'-4"	—
h3(E)	8	#6	29'-10"	—
Concrete Removal			Cu. Yds.	8.7
Concrete Superstructure			Cu. Yds.	10.0
Reinforcement Bars, Epoxy Coated			Lbs.	1,090



BARS d(E) & d2(E)

BAR d1(E)

BARS d4(E) & d5(E)



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PLOT DATE =	DRAWN - DAS	REVISED -
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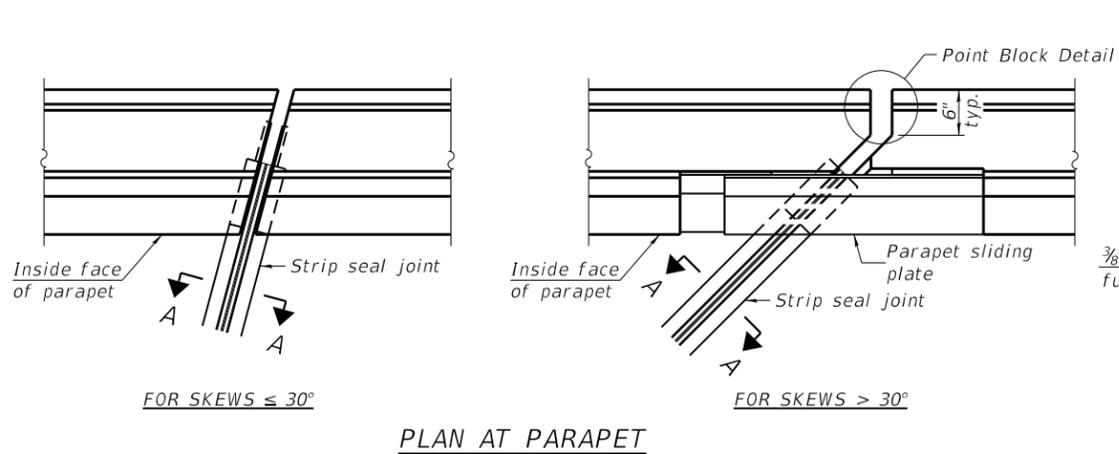
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JOINT REPLACEMENT DETAILS (SN 084-0023)
STRUCTURE NOS. 084-0022 & 084-0023

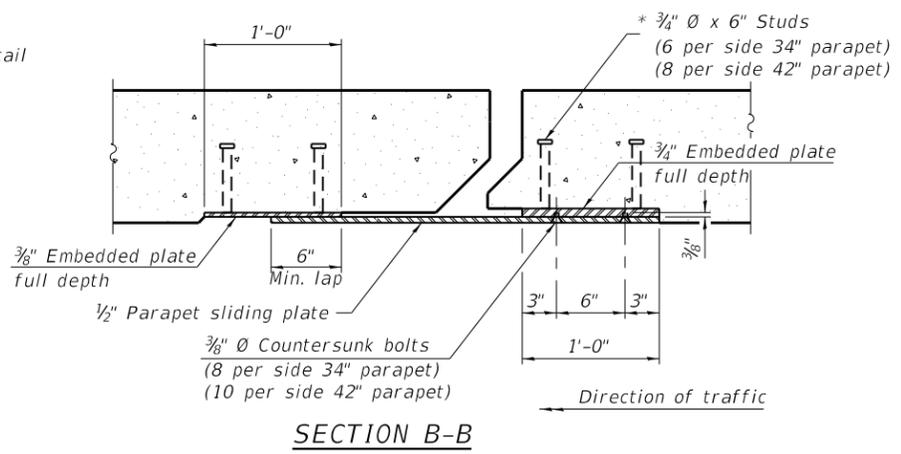
SHEET 5 OF 7 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(84-2) & (84-3) BRR	SANGAMON	98	96
CONTRACT NO. 72J97				
ILLINOIS FED. AID PROJECT				

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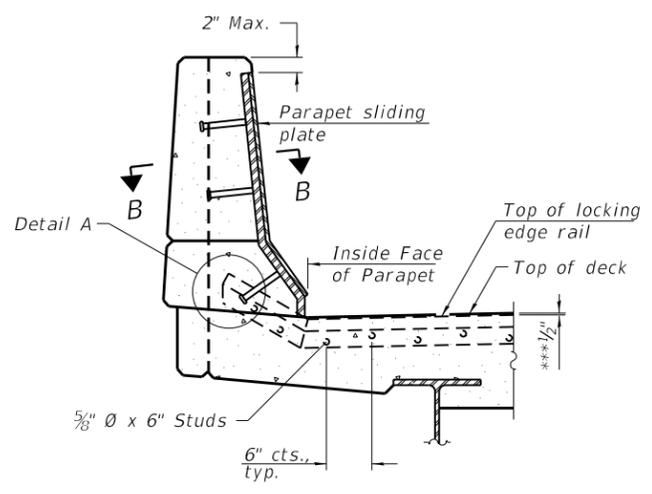


PLAN AT PARAPET



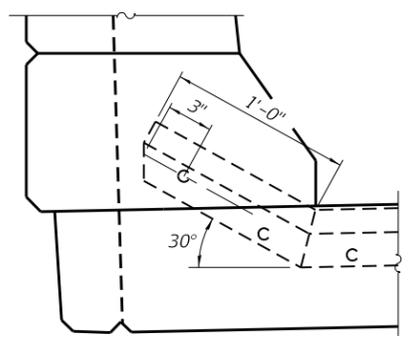
SECTION B-B

Notes:
 The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the locking edge rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.
 The locking edge rails depicted are configured for typical applications and are conceptual only. The actual configuration of the locking edge rails and matching strip seal may vary from manufacturer to manufacturer provided they fit the application and meet the minimum anchorage shown. Flanged edge rails, however, will not be allowed. Locking edge rails may exceed the 4 1/2" maximum depth provided the anchorage system is revised according to the manufacturer's recommendation.
 The manufacturer's recommended installation methods shall be followed.
 All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.
 The Maximum space between locking edge rail segments shall be 3/16" and sealed with a suitable sealant; however, any rail joint within 10' measured perpendicular to the face of the curb or parapet shall be welded as shown in the locking edge rail splice detail.

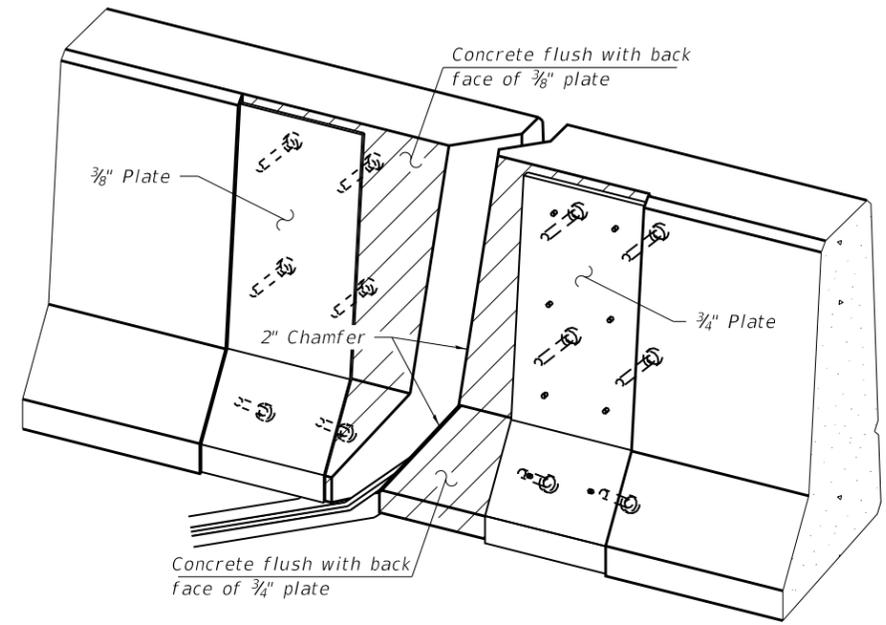


ELEVATION AT PARAPET

(Skews > 30° shown. Skews ≤ 30° similar except as shown in plan view.)

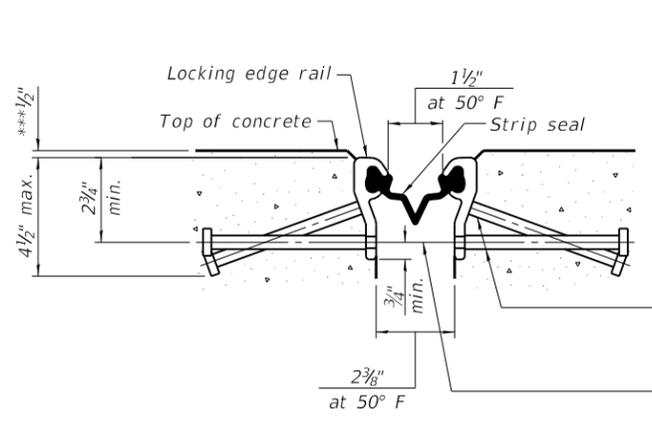


DETAIL A



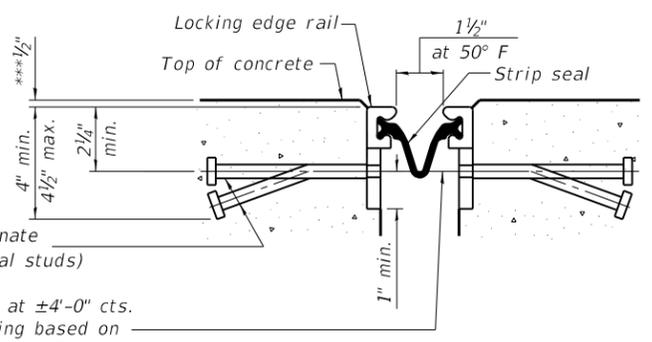
TRIMETRIC VIEW
 (Showing embedded plates only)

Cost of parapet sliding plates, embedded plates, and anchorage studs included with Preformed Joint Strip Seal.
 34" F-shape barrier shown, 42" F-shape similar as noted.
 The concrete opening below the strip seal will vary based on the locking edge rail chosen by the Contractor. Deck and parapet lengths shown elsewhere in the plans are dimensioned to the concrete opening, not the joint opening, and are based on the rolled locking edge rail. If the Contractor elects to use a different locking edge rail, dimensional adjustments may be required. One exception to this would be the strip seal joint at the end of the precast bridge approach slab. For these cases the pavement connector length shall be adjusted, not the length of the bridge approach slab.



SHOWING ROLLED RAIL JOINT

***Prior to 1/4" grinding.

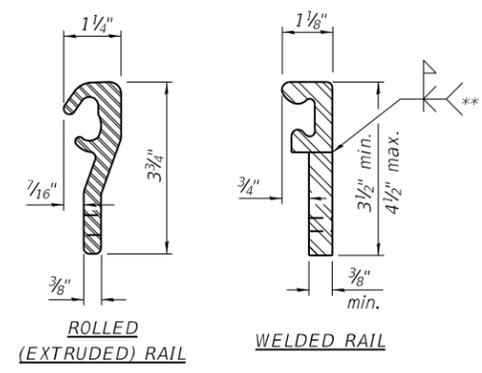


SHOWING WELDED RAIL JOINT

* 3/8" Ø x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)
 3/8" Ø threaded rods in 7/16" Ø holes at ±4'-0" cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

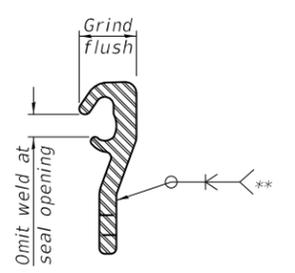
SECTION A-A

* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.



LOCKING EDGE RAILS

** Back gouge not required if complete joint penetration is verified by mock-up.



LOCKING EDGE RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue.
 Rolled rail shown, welded rail similar.

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	212

EJ-SS

8-11-17



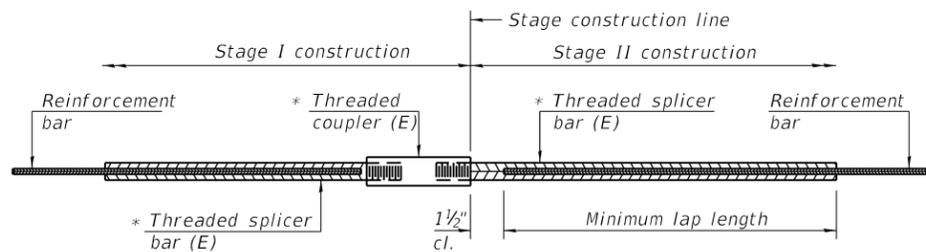
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PLOT DATE =	DRAWN - DAS	REVISED -
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PREFORMED JOINT STRIP SEAL
 STRUCTURE NOS. 084-0022 & 084-0023

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(84-2) & (84-3) BRR	SANGAMON	98	97
CONTRACT NO. 72J97				
ILLINOIS FED. AID PROJECT				

SHEET 6 OF 7 SHEETS



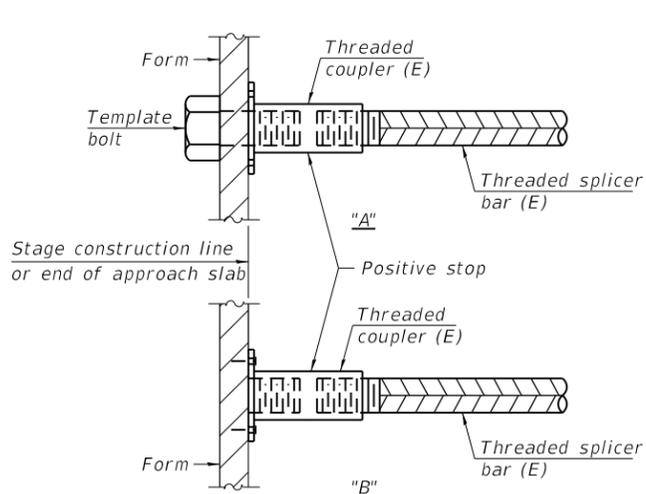
STANDARD BAR SPLICER ASSEMBLY

Threaded splicer bar length = min. lap length + 1 1/2" + thread length

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

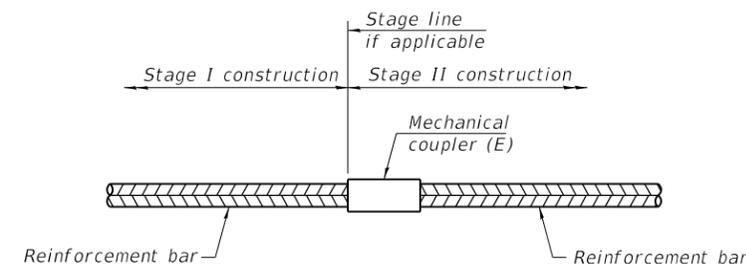
Location	**Bar size	No. assemblies required	**Minimum lap length
West Abutment	#5	2	3'-6"
West Abutment	#6	4	4'-0"
East Abutment	#5	2	3'-6"
East Abutment	#6	4	4'-0"

** Typical each structure



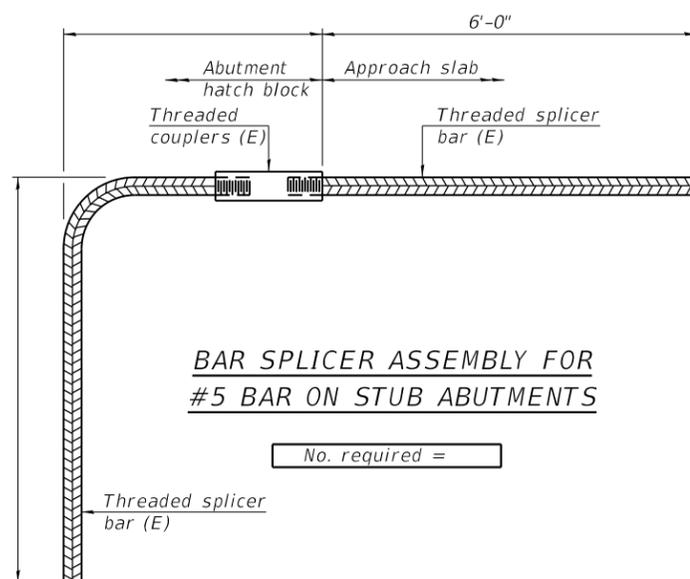
INSTALLATION AND SETTING METHODS

"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



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. 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.

MODEL: Default
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2-17-2017



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PLOT DATE =	DRAWN - DAS	REVISED -
	CHECKED - MTH	REVISED -

STATE OF ILLINOIS
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BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
 STRUCTURE NOS. 084-0022 & 084-0023

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(84-2) & (84-3) BRR	SANGAMON	98	98
CONTRACT NO. 72J97				

SHEET 7 OF 7 SHEETS

ILLINOIS FED. AID PROJECT