

043

01-17-2020 LETTING ITEM 043

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAI DATE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	10-6,7)BDR	CHAMPAIGN	99	1
ILLINOIS CONTRACT NO. 70B92				

FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 4-7
FOR HIGHWAY STANDARDS LIST, SEE SHEET NO. 3
FOR INDEX OF SHEETS, SEE SHEET NO. 2

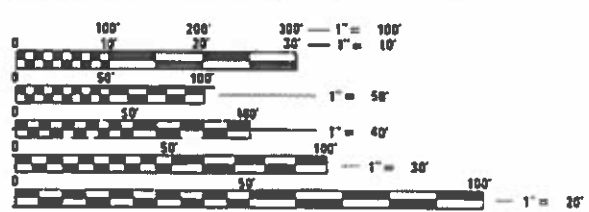
**PROPOSED
HIGHWAY PLANS**

FAI ROUTE 74 (I-74)
SECTION: (10-6,7)BDR
PROJECT: NHPP-LJIE(900)
BRIDGE DECK REPAIRS
CHAMPAIGN COUNTY

C-95-042-18

CURRENT TRAFFIC DATA				
		FAI-74	EAS 516	FAU 7196
2018	ADT	32,600.00	4,200.00	3000
2028	ADT	35,500.00	4,400.00	3150
2038	ADT	38,500.00	4,600.00	3300
2038	DHV (AM)	2,700.00	590.00	215
2038	DHV (PM)	3,045.00	450.00	325
	P.U./P.C %	75.70	94.90	95.1
	S.U. %	3.40	3.00	4.2
	M.U. %	20.90	2.10	0.7

DESIGN DESIGNATION
INTERSTATE

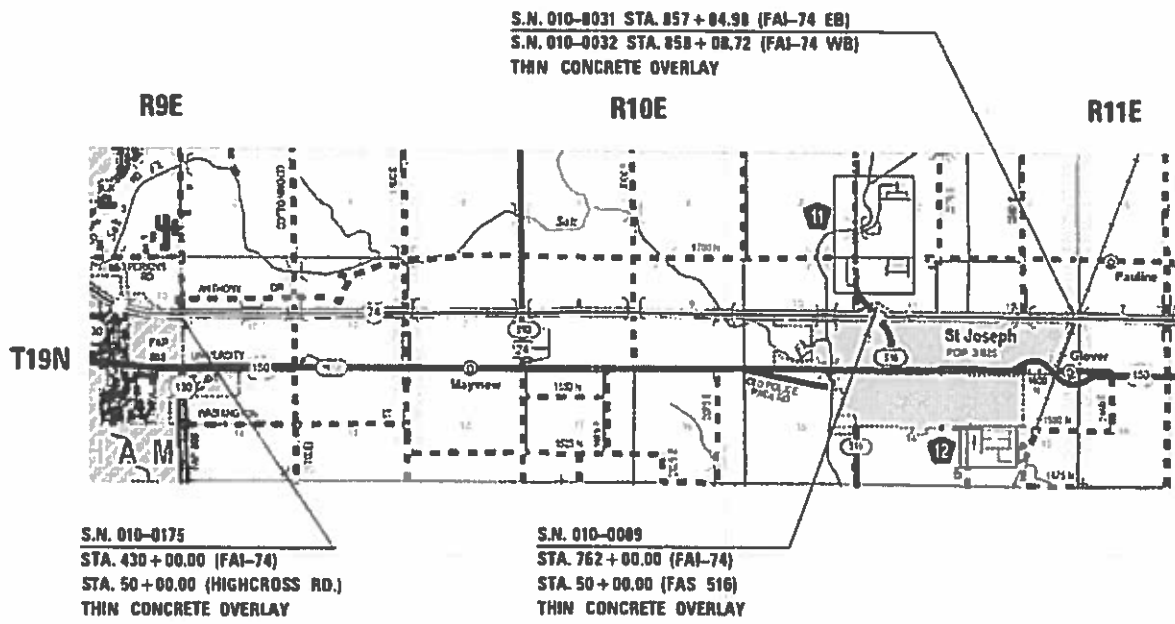


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

PROJECT ENGINEER TIM BRANDENBURG
PROJECT MANAGER JEFF SHERER

CONTRACT NO. 70B92



GROSS LENGTH = 600.68 FT. = 0.114 MILE
NET LENGTH = 600.68 FT. = 0.114 MILE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED October 8, 2019
Paul A. [Signature]
REGIONAL ENGINEER

Dec 6, 2019
[Signature]
ENGINEER OF DESIGN AND ENVIRONMENT

Dec 6, 2019
[Signature]
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

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2	INDEX OF SHEETS/ HIGHWAY STANDARDS
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4-7	SUMMARY OF QUANTITIES
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36-45	AS-BUILT PLANS 010-0031 & 010-0032
46-59	REPAIR PLANS 010-0089
60-67	AS-BUILT PLANS 010-0089
68-77	REPAIR PLANS 010-0175
78-83	AS-BUILT PLANS 010-0175
84	DETAIL FOR TEMPORARY RUMBLE STRIPS (SPECIAL)
85-86	DETAIL FOR SMART TRAFFIC MONITORING SYSTEM
87-94	DETAIL FOR WIDTH RESTRICTION SIGNING
95-99	DETAIL OF PAVEMENT MARKINGS

LIST OF STANDARDS

<u>STANDARD NO.</u>	<u>DESCRIPTION</u>
000001-07	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
482001-02	HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
701001-02	OFF RD OPERATIONS 2L, 2W, MORE THAN 15' AWAY
701006-05	OFF RD OPERATIONS, 2L,2W, 15' TO 24" FROM EOP
701011-04	OFF RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701101-05	OFF-RD OPERATIONS, MULTILANE, 15' TO 24" FROM EOP
701201-05	LANE CLOSURE, 2L 2W, DAY ONLY SPEEDS > 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS, DAY ONLY
701321-18	LANE CLOSURE, 2L 2W, BRIDGE REPAIR WITH BARRIER
701400-09	APPROACH TO LANE CLOSURE - FREEWAY/ EXPRESSWAY
701401-12	LANE CLOSURE FREEWAY/ EXPRESSWAY
701402-12	LANE CLOSURE FREEWAY/ EXPRESSWAY PLUS BARRIER
701411-09	LANE CLOSURE MULTILANE, AT ENTRANCE OR EXIT RAMP FOR SPEEDS > 45 MPH
701426-09	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATIONS, FOR SPEEDS > 45 MPH
701901-08	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
780001-05	TYPICAL PAVEMENT MARKINGS

MODEL: 440001.DWG
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USER NAME = shererjm	DESIGNED - JMS	REVISED -
	DRAWN - JMS	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 10/16/2019	DATE - 02/11/19	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

INDEX OF SHEETS/HIGHWAY STANDARDS

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-6.7)BDR	CHAMPAIGN	99	2
			CONTRACT NO. 70892	
ILLINOIS FED. AID PROJECT				

G.N.-100A

ELECTRONIC FILES AND/OR ELECTRONIC SURVEY INFORMATION INCLUDING CADD FILES WILL NOT BE AVAILABLE TO THE CONTRACTOR.

GN 105.07C

EXISTING STATE-OWNED AND MAINTAINED UNDERGROUND UTILITY FACILITIES EXIST WITHIN THE ROW. THE DEPARTMENT IS NOT A MEMBER OF JULIE AND DOES NOT LOCATE IT'S OWN FACILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE AT THEIR OWN EXPENSE FOR SECURING AN APPROVED LOCATING FIRM TO LOCATE ALL EXISTING IDOT UNDERGROUND FACILITIES PRIOR TO COMMENCING ANY EXCAVATION, PER THE REQUIREMENTS OF ARTICLE 803 OF THE STANDARD SPECIFICATIONS. UTILITY LOCATES MAY ALSO BE REQUIRED OUTSIDE THE PROJECT LIMITS, SUCH AS FOR TRAFFIC CONTROL SIGNING AND OTHER ITEMS. THE CONTRACTOR MAY OBTAIN, ON REQUEST, PLANS OF EXISTING ELECTRICAL FACILITIES FROM THE DEPARTMENT. FOR FURTHER INFORMATION, THE CONTRACTOR MAY CONTACT THE DISTRICT TRAFFIC OPERATIONS ENGINEER, GARY SIMS, AT 217-251-4859.

G.N.-107.12

THE NAME, ADDRESS AND TELEPHONE NUMBER OF THE LOCAL RAILROAD CONTACT IS:

Mr. Chris T. Keckeisen
 Union Pacific Railroad - Engineering Design - Public Projects
 1400 Douglas, MS 0910
 Omaha, NE 68179
 402-544-5131
ctkecke@up.com

SPECIAL ATTENTION IS CALLED TO ARTICLE 107.12 REGARDING RAILROAD FLAGGERS. THE NAME, ADDRESS AND TELEPHONE NUMBER OF THE RAILROAD CONTACT PERSON FOR FLAGGERS IS:

Flagging will be assigned by UP once the Right of Entry and Railroad Protective Liability Insurance requirements have been met.

Union Pacific requires contractors to obtain a Right Of Entry Permit before entering upon railroad right of way. It is the responsibility of the Contractor to obtain a Railroad Right of Entry permit from the railroad.

GN 406H

Location	I-74 (010-0031 & 010-0032)	I-74 (0031 & 0032) & FAS 516 (0089)
Mixture Use	Surface	Shoulder
AC/PG	SBS PG 70-22	PG 64-22
Design Air Voids	4.0% @ Ndes=90	4.0% @ Ndes=30
Mix Comp(Gradation)	IL 9.5	IL 9.5L
Friction Aggregate	Mix E	N.A.
Mixture Weight	112	112
Quality Management Program	QC/QA	QC/QA
Sublot Size	N.A.	N.A.

G.N.-703A

SHORT TERM PAVEMENT MARKING SHALL BE APPLIED TO THE PAVEMENT AFTER ANY OF THE FOLLOWING: COLD MILLING AND/OR PLACING

BITUMINOUS MATERIALS (PRIME COAT), LEVELING BINDER (MACHINE METHOD), BINDER AND SURFACE COURSES. SHORT TERM PAVEMENT MARKING PLACED ON THE SURFACE, SHALL COINCIDE WITH THE FINAL PAVEMENT STRIPING. SHORT TERM PAVEMENT MARKING PLACED PRIOR TO THE SURFACE SHALL COINCIDE WITH THE EXISTING PAVEMENT MARKINGS. USE 4 FEET PER 40 FEET (OR 10% PER STATION).

THE PLACEMENT AND REMOVAL OF SHORT TERM PAVEMENT MARKING SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST FOR PAINT PAVEMENT MARKING OF TYPE AND SIZE SPECIFIED.

G.N.-1004.01

COARSE AGGREGATE GRADATION CA-10 MAY BE USED WHENEVER COARSE AGGREGATE CA-6 IS SPECIFIED IN THE STANDARD SPECIFICATIONS.

THERE ARE NO COMMITMENTS ASSOCIATED WITH THIS PROJECT

XX006673 RECESSED POLYUREA PAVEMENT MARKING, TYPE 2- LINE 4"

	STATION	TO	STATION	EDGE LINE WHITE FOOT	EDGE LINE YELLOW FOOT	CENTERLINE WHITE SD FOOT	CENTERLINE DBL YELLOW FOOT
S.N. 010-0031	855+00.00		860+00.00	500.00	500.00	125.00	0.00
S.N.010-0032	856+00.00		861+00.00	500.00	500.00	125.00	0.00
S.N. 010-0089	48+49.00		51+51.00	604.00	0.00	0.00	604.00
TOTAL=				1,604.00	1,000.00	250.00	604.00
TOTAL QTY =				3,458.00			

70300100 SHORT TERM PAVEMENT MARKING

	STATION	TO	STATION	EDGE LINE WHITE FOOT	EDGE LINE YELLOW FOOT	CENTERLINE WHITE SD FOOT	CENTERLINE DBL YELLOW FOOT
S.N. 010-0031	855+00.00		860+00.00	20.00	20.00	50.00	0.00
S.N.010-0032	856+00.00		861+00.00	20.00	20.00	50.00	0.00
S.N. 010-0089	48+49.00		51+51.00	0.00	0.00	0.00	61.00
TOTAL=				40.00	40.00	100.00	61.00
TOTAL QTY =				241.00			

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USER NAME = shererjm	DESIGNED - JMS	REVISED -
	DRAWN - JMS	REVISED -
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PLOT DATE = 10/8/2019	DATE - 02/11/19	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

GENERAL NOTES

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-6.7)BDR	CHAMPAIGN	99	3
CONTRACT NO. 70B92				
ILLINOIS FED. AID PROJECT				

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CHAMPAIGN COUNTY STRUCTURE IMPROVEMENT F.A.I. 74 S.N. 010-0031 (EB) STA. 857+84.98 S.N. 010-0032 (WB) STA. 858+08.72 90% FED 10% STATE	CHAMPAIGN COUNTY STRUCTURE IMPROVEMENT F.A.I. 74 S.N. 010-0089 STA. 762+00.00 90% FED 10% STATE	CHAMPAIGN COUNTY STRUCTURE IMPROVEMENT F.A.I. 74 S.N. 010-0175 STA. 430+00.00 90% FED 10% STATE
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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0059 RURAL	0059 RURAL	0059 RURAL
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	163.0	63.0	39.0	61.0
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	1,522.0	1,388.0	0.0	134.0
40603570	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N90	TON	168.0	156.0	0.0	12.0
44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	86.0	0.0	86.0	0.0
48203100	HOT-MIX ASPHALT SHOULDERS	TON	70.0	60.0	10.0	0.0
50102400	CONCRETE REMOVAL	CU YD	20.0	20.0	0.0	0.0
50157300	PROTECTIVE SHIELD	SQ YD	1,220.0	520.0	410.0	290.0
50300100	FLOOR DRAINS	EACH	20.0	0.0	4.0	16.0
50300255	CONCRETE SUPERSTRUCTURE	CU YD	24.4	24.4	0.0	0.0
50300260	BRIDGE DECK GROOVING	SQ YD	1,372.0	0.0	873.0	499.0
50300300	PROTECTIVE COAT	SQ YD	3392	1963	913	516
50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	9,440.0	9,440.0	0.0	0.0
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	4,385.0	4,385.0	0.0	0.0
50800515	BAR SPLICERS	EACH	60.0	60.0	0.0	0.0
52000110	PREFORMED JOINT STRIP SEAL	FOOT	352.0	352.0	0.0	0.0

USER NAME = sherejrm	DESIGNED - JMS	REVISED -
DRAWN - JMS	CHECKED -	REVISED -
PLOT SCALE = 40.0000' / in.	DATE - 02/11/19	REVISED -
PLOT DATE = 10/16/2019		

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: NONE SHEET 1 OF 4 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-6.7)BDR	CHAMPAIGN	99	4
			CONTRACT NO. 70B92	
ILLINOIS FED. AID PROJECT				

CHAMPAIGN COUNTY STRUCTURE IMPROVEMENT F.A.I. 74 S.N. 010-0031 (EB) STA. 857+84.98 S.N. 010-0032 (WB) STA. 858+08.72 90% FED 10% STATE	CHAMPAIGN COUNTY STRUCTURE IMPROVEMENT F.A.I. 74 S.N. 010-0089 STA. 762+00.00 90% FED 10% STATE	CHAMPAIGN COUNTY STRUCTURE IMPROVEMENT F.A.I. 74 S.N. 010-0175 STA. 430+00.00 90% FED 10% STATE
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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0059 RURAL	0059 RURAL	0059 RURAL
70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	4.0	2.0	2.0	0.0
* 78008310	POLYUREA PAVEMENT MARKING, TYPE II- LINE 4"	FOOT	3,458.0	2,250.0	1,208.0	0.0
X0325748	ACRYLIC COATING	SQ YD	122.0	122.0	0.0	0.0
X0325749	FIBER WRAP	SQ FT	1,022.0	1,022.0	0.0	0.0
X0327640	REAL-TIME TRAFFIC CONTROL CENTRAL BASE UNIT	CAL MO	5.0	5.0	0.0	0.0
X0327641	REAL-TIME TRAFFIC CONTROL SENSOR UNIT	CAL MO	5.0	5.0	0.0	0.0
X1200030	FILLING INLETS, TEMPORARY	EACH	4.0	4.0	0.0	0.0
X2700001	TEMPORARY RUMBLE STRIPS (SPECIAL)	EACH	32.0	32.0	0.0	0.0
X5030250	BRIDGE DECK GROOVING (LONGITUDINAL)	SQ YD	1,215.0	1,215.0	0.0	0.0
X7040125	PINNING TEMPORARY CONCRETE BARRIER	EACH	150.0	98.0	52.0	0.0
X7200201	WIDTH RESTRICTION SIGNING	L SUM	1.0	0.5	0.5	0.0
* X7830070	GROOVING FOR RECESSED PAVEMENT MARKING, 5"	FOOT	3,458.0	2,250.0	1,208.0	0.0
Z0001899	JACK AND REMOVE EXISTING BEARINGS	EACH	51.0	51.0	0.0	0.0
Z0004556	HOT-MIX ASPHALT SURFACE REMOVAL (DECK)	SQ YD	919.0	0.0	919.0	0.0
Z0006012	BRIDGE DECK LATEX CONCRETE OVERLAY, 2 1/4 INCHES	SQ YD	516.0	0.0	0.0	516.0

* SPECIALTY ITEMS

MODEL: \\MODELS\MAME\...
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USER NAME = shererjm	DESIGNED - JMS	REVISED -
PLOT SCALE = 40.0000 ' / in.	DRAWN - JMS	REVISIONS -
PLOT DATE = 10/16/2019	CHECKED -	REVISIONS -
	DATE - 021119	REVISIONS -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES			
SCALE: NONE	SHEET 3	OF 4 SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-6.7)BDR	CHAMPAIGN	99	6
CONTRACT NO. 70B92				
ILLINOIS FED. AID PROJECT				

S.N. 010-0031 & 0032 WERE BUILT IN 1959 AS FAI ROUTE 74, SECTION 10-7VB AT STATION 857+96.85 IN CHAMPAIGN COUNTY. THE STRUCTURES WERE RECONSTRUCTED IN 1993, SECTION (10-7VB)BR. THE STRUCTURES ARE THREE (3) SPAN, 7 1/2" THICK REINFORCED DECK WITH PRESTRESSED CONCRETE BEAMS ON SPREAD FOOTING SUPPORTED PIERS AND CONCRETE PILE SUPPORTED ABUTMENTS.

THE STRUCTURES HAVE A BACK-TO-BACK ABUTMENT LENGTH OF 171'-3 3/8", OUT-TO-OUT WIDTH OF 42'-2", BRIDGE ROADWAY WIDTH OF 39'-0", AND AN APPROACH ROADWAY WIDTH OF 41'-0".

SEE LIST OF PROPOSED IMPROVEMENTS ON THIS SHEET.

WORK SHALL BE COMPLETED UTILIZING STAGED CONSTRUCTION.

GENERAL NOTES

PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN SCOPE OF WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.

REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.

PRIOR TO POURING NEW CONCRETE, ALL HEAVY OR LOOSE RUST, LOOSE MILL SCALE, AND OTHER LOOSE OR POTENTIALLY DETRIMENTAL FOREIGN MATERIAL SHALL BE REMOVED FROM THE SURFACE 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.

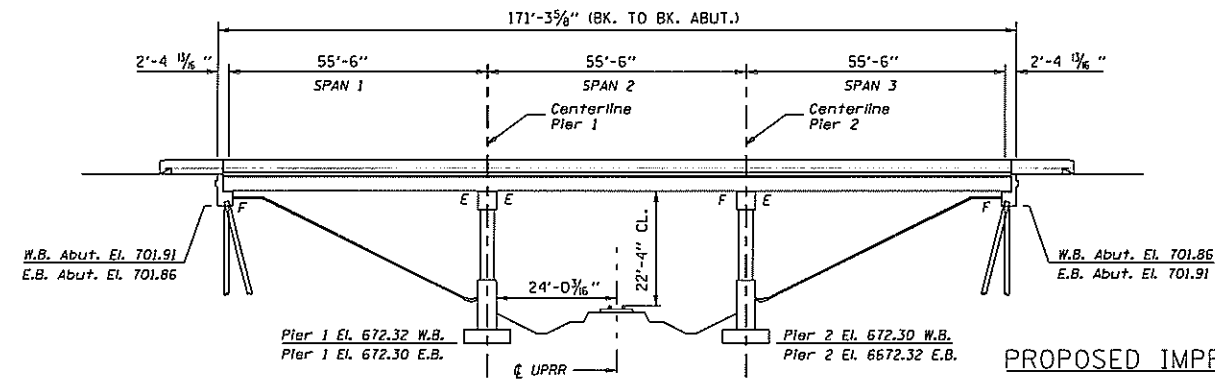
EXISTING REINFORCEMENT BARS EXTENDING INTO THE REMOVAL AREA SHALL BE CLEANED, STRAIGHTENED AND INCORPORATED INTO THE NEW CONSTRUCTION. COST INCLUDED WITH CONCRETE REMOVAL AND CONCRETE SUPERSTRUCTURE.

AREAS OF REPAIRS SHOWN ARE ESTIMATED. THE ENGINEER SHALL SHOW ACTUAL LOCATIONS OF THE REPAIRS ON AS-BUILT PLANS.

SYNTHETIC FIBERS SHALL BE INCLUDED IN THE BRIDGE DECK LATEX CONCRETE OVERLAYS. SEE SPECIAL PROVISIONS.

NO AREAS OF DECK SLAB REPAIR (FULL DEPTH) HAVE BEEN FOUND FROM MARCH 1ST, 2018 DECK SURVEY. NO DECK SLAB REPAIR (FULL DEPTH) IS EXPECTED AFTER HYDROSCARIFICATION.

PROTECTIVE COAT SHALL BE APPLIED TO THE BRIDGE DECK CONCRETE OVERLAY AND NEW CONCRETE AREAS ADJACENT TO THE DECK JOINTS ONLY.

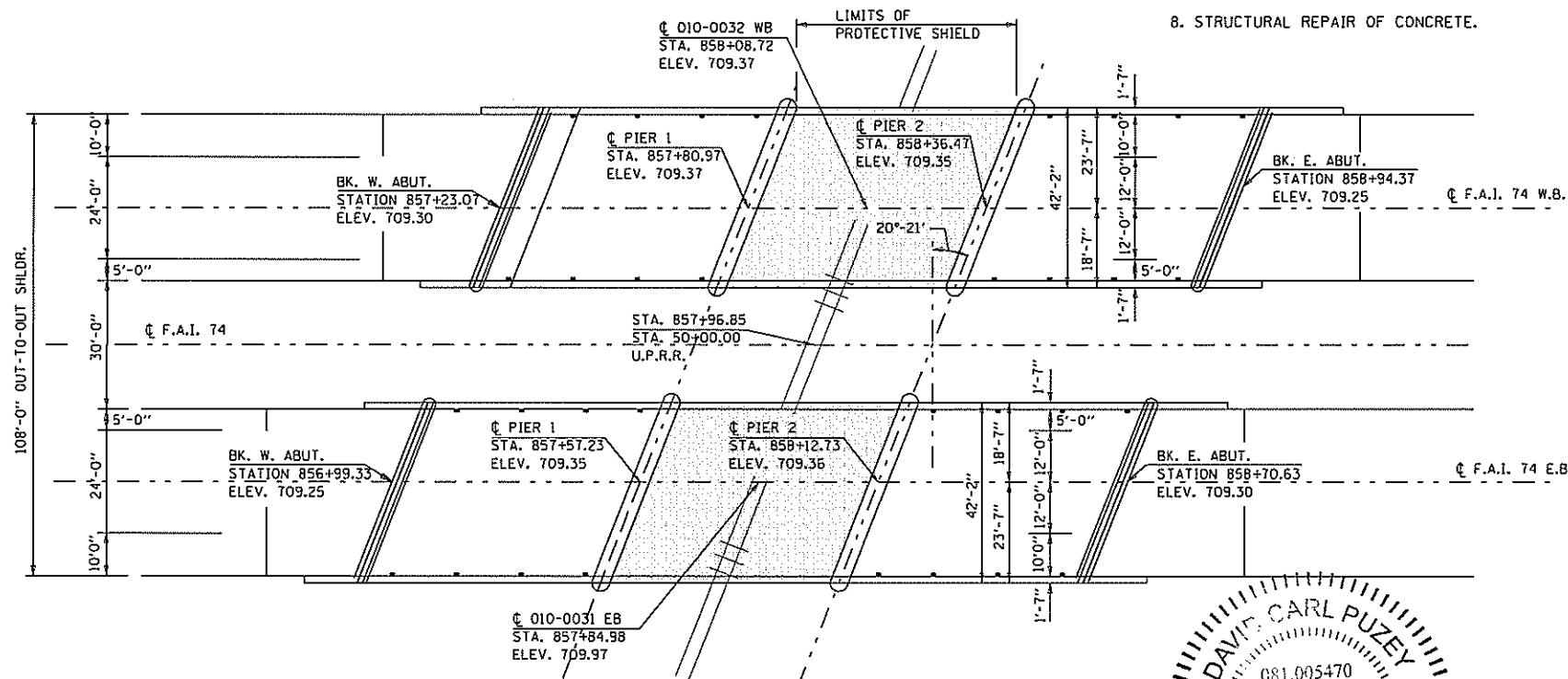


ELEVATION VIEW

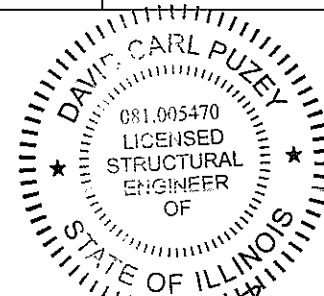
E.B. BRIDGE SHOWN
W.B. BRIDGE IDENTICAL EXCEPT FOR ELEVATIONS

PROPOSED IMPROVEMENTS

1. REMOVE AND REPLACE BEARINGS AT ALL ABUTMENTS AND PIERS.
2. FIBER WRAP AND BEAM END REPAIRS AT VARIOUS LOCATIONS.
3. DIAPHRAM REPAIRS AT VARIOUS LOCATIONS.
4. REMOVE AND REPLACE EXPANSION JOINTS AT ABUTMENTS AND PIERS.
5. BRIDGE DECK SCARIFICATION, 3/4".
6. PLACEMENT OF PROPOSED LATEX CONCRETE WEARING SURFACE.
7. PLACE POLYMERIZED HOT-MIX ASPHALT RUN-DOWNS.
8. STRUCTURAL REPAIR OF CONCRETE.



PLAN VIEW



As Carl Puzey 12/4/19 Expires 1/30/20

TOTAL BILL OF MATERIALS

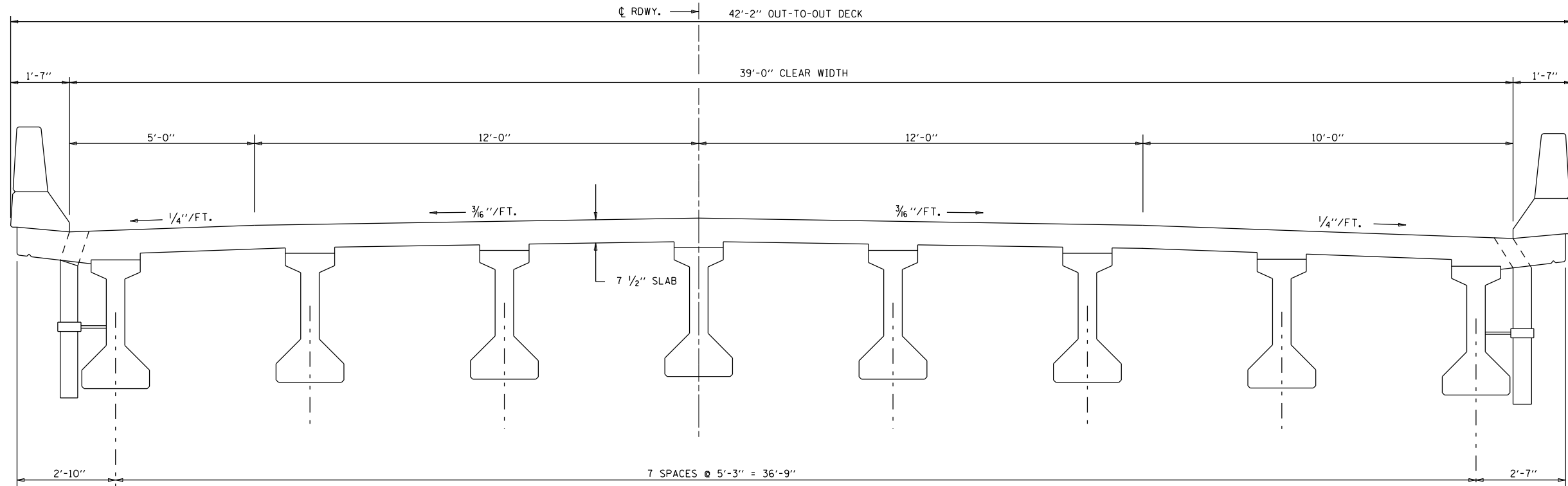
ITEM	UNIT	TOTAL
PROTECTIVE SHIELD	SO YD	520.0
CONCRETE REMOVAL	CU YD	20.0
CONCRETE SUPERSTRUCTURE	CU YD	24.4
PROTECTIVE COAT	SO YD	1963.0
REINFORCEMENT BARS, EPOXY COATED	POUND	4,385.0
FURNISH & ERECTING STRUCTURAL STEEL	POUND	9,440.0
BAR SPLICERS	EACH	60.0
PREFORMED JOINT STRIP SEAL	FOOT	352.0
ELASTOMERIC BEARING ASSEMBLY TYPE I	EACH	42.0
ANCHOR BOLTS 1"Ø	EACH	112.0
ACRYLIC COATING	SO YD	122.0
FIBER WRAP	SO FT	1,022.0
BRIDGE DECK GROOVING (LONGITUDINAL)	SO YD	1,215.0
JACK AND REMOVE EXISTING BEARINGS	EACH	51.0
BRIDGE DECK LATEX CONCRETE OVERLAY 2 1/2"	SO YD	1,898.0
BRIDGE DECK SCARIFICATION 3/4"	SO YD	1,898.0
STRUCTURAL REPAIR OF CONCRETE (DEPTH ≤ 5")	SO FT	253.0
STRUCTURAL REPAIR OF CONCRETE (DEPTH ≥ 5")	SO FT	123.0
DIAMOND GRINDING (BRIDGE SECTION)	SO YD	1,848.0
PPC CONCRETE I-BEAM REPAIR	SO FT	222.0
TEMPORARY SHORING & CRIBBING	EACH	8.0

FILE NAME =	USER NAME = shererjm	DESIGNED - JMS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL PLAN & ELEVATION S.N.(s) 010-0031 & 0032	F.A.I. RTE. 74	SECTION (10-6,7)BDR	COUNTY CHAMPAIGN	TOTAL SHEETS 99	SHEET NO. 8	CONTRACT NO. 70B92		
DRAWN to StructuralMS057092-sht-010-0031	CHECKED -	REVISOR -	SCALE: 1" = 20'			SHEET NO. 1 OF 28 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT					
PLOT SCALE = 40,0000' / in.	CHECKED -	REVISOR -											
PLOT DATE = 12/2/2019	DATE - 021318	REVISOR -											

EXISTING DECK CROSS SECTION

LOOKING EAST S.N. 010-0031

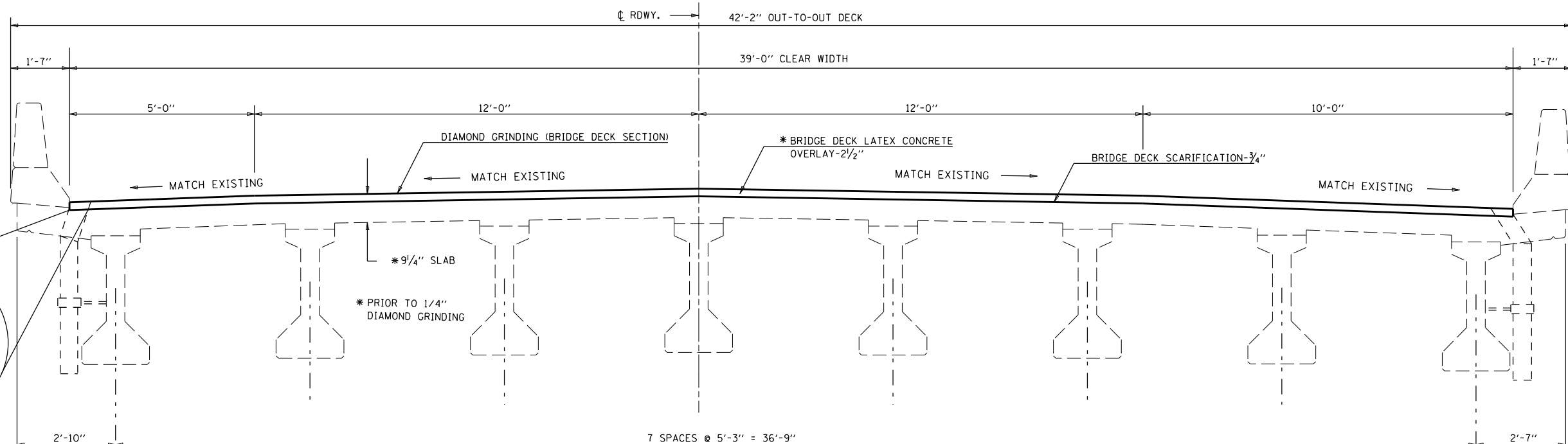
LOOKING WEST S.N. 010-0032



PROPOSED DECK CROSS SECTION

LOOKING EAST S.N. 010-0031

LOOKING WEST S.N. 010-0032

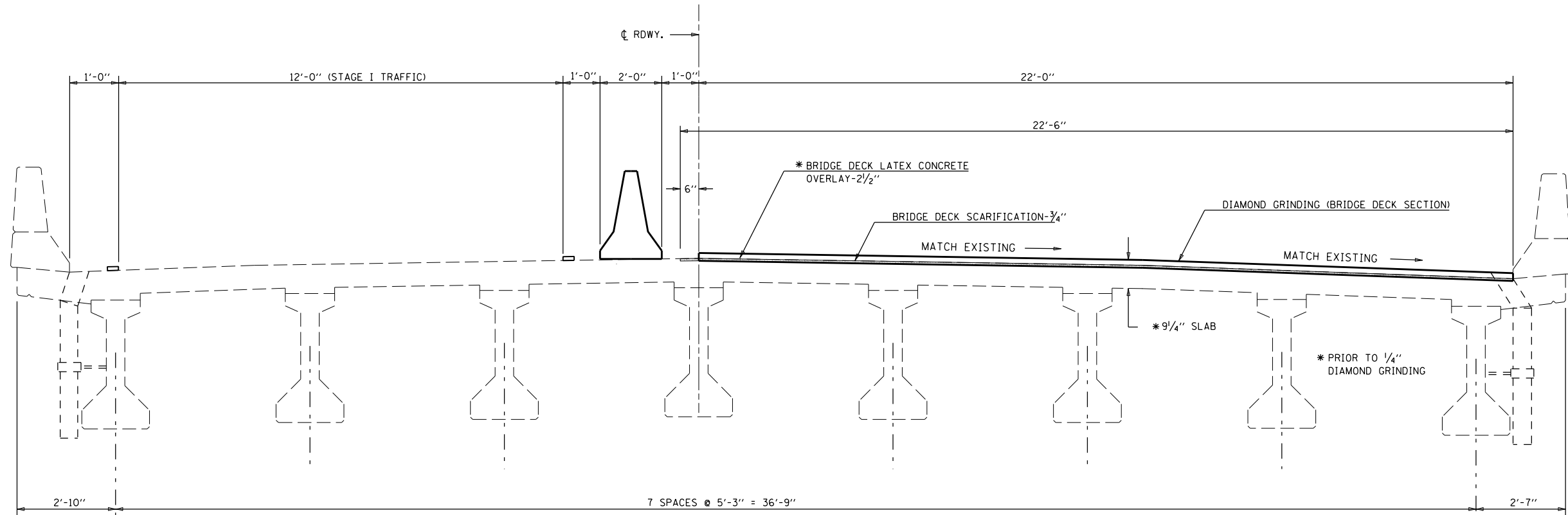


FILE NAME =	USER NAME = shererjm	DESIGNED - JMS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DECK CROSS SECTIONS S.N.(s) 010-0031 & 0032			F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT SCALE = 40.0000' / in.	DATE = 021318	REVISOR =	REVISOR =					CONTRACT NO. 70B92				
PLOT DATE = 5/1/2019	DATE = 021318	REVISOR =	REVISOR =	SCALE: NONE	SHEET NO. 2 OF 28 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT				

STAGE I CONSTRUCTION DETAIL

LOOKING EAST S.N. 010-0031

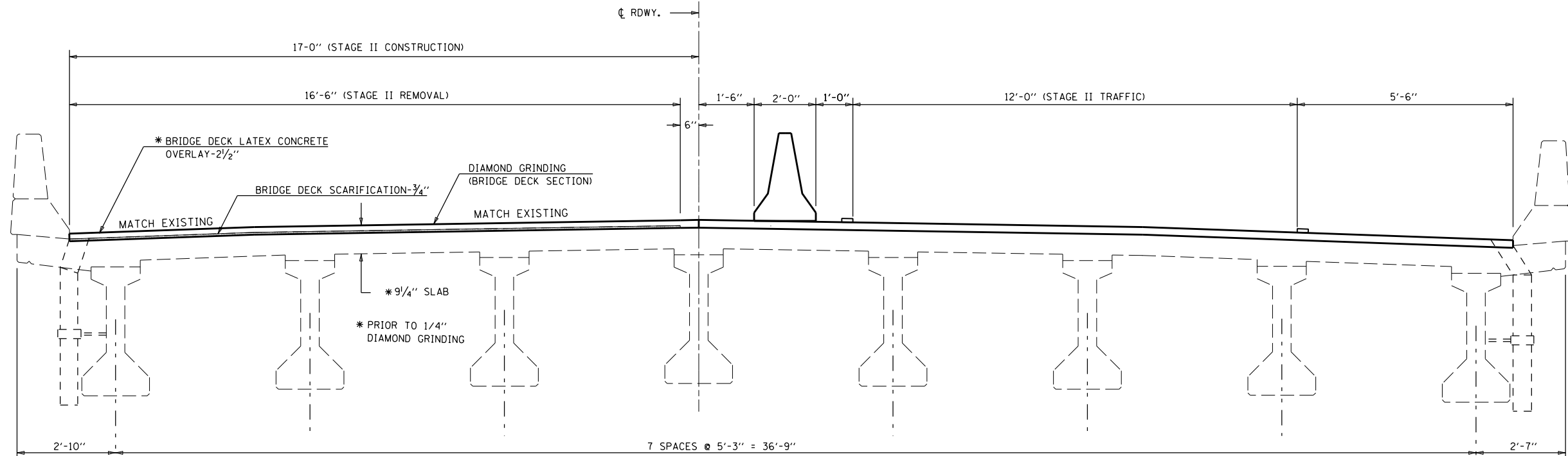
LOOKING WEST S.N. 010-0032



STAGE II CONSTRUCTION DETAIL

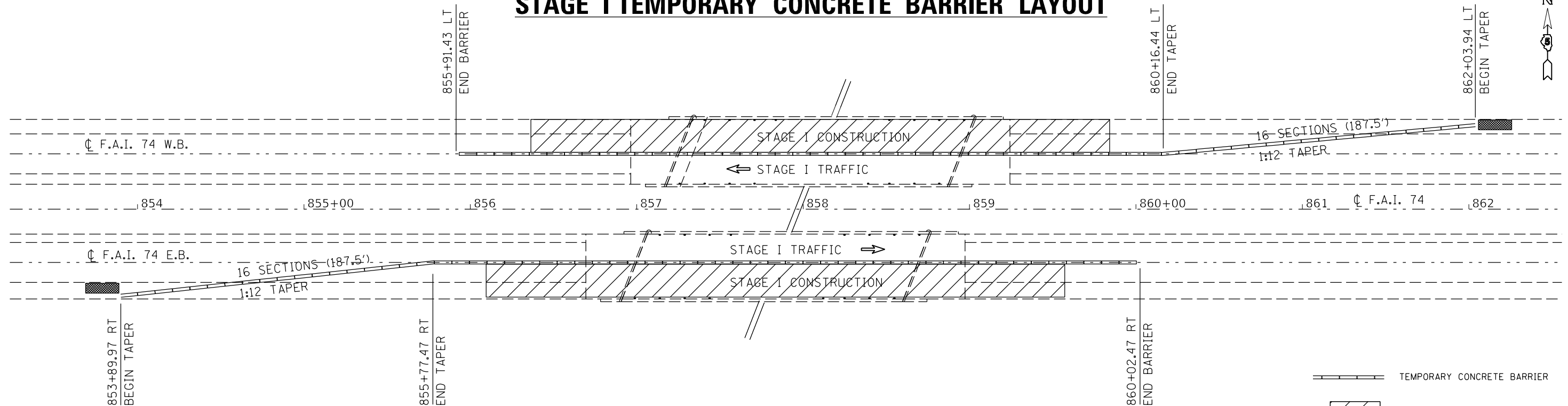
LOOKING EAST S.N. 010-0031

LOOKING WEST S.N. 010-0032

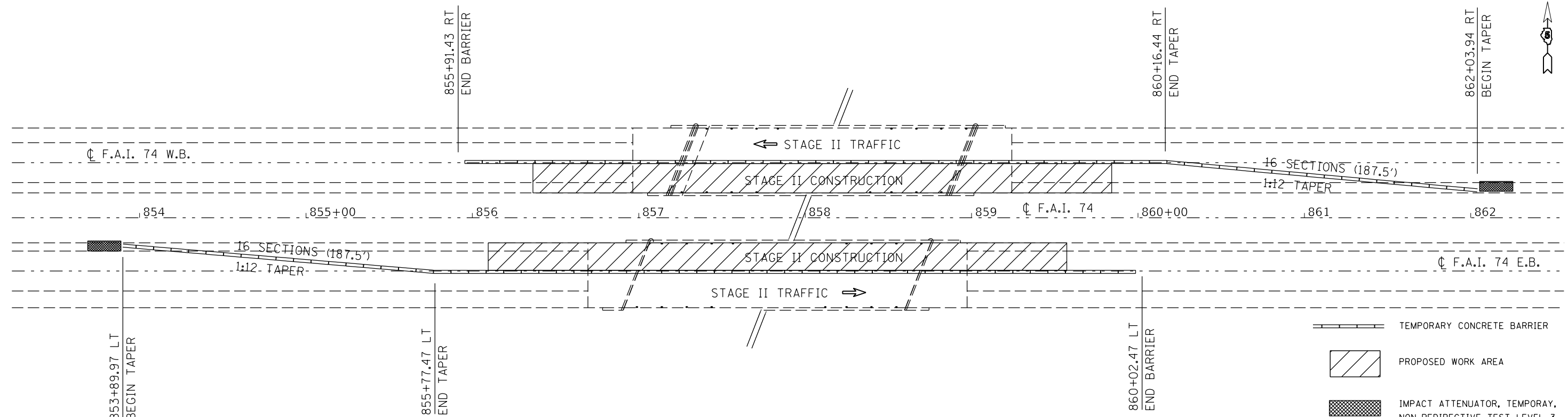


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PLOT SCALE = 40.0000' / in.	CHECKED -	DATE - 021318	REVISION		SCALE: NONE	SHEET NO. 3 OF 28 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT			

STAGE I TEMPORARY CONCRETE BARRIER LAYOUT



STAGE II TEMPORARY CONCRETE BARRIER LAYOUT



FILE NAME =	USER NAME = shererjm	DESIGNED - JMS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGED CONSTRUCTION DETAIL			F.A.I. RTE. =	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT SCALE = 40.0000' / in.		DATE - 021318	REVISED -		SCALE: NONE	SHEET NO. 4 OF 28 SHEETS	STA.	TO STA.		CONTRACT NO. 70B92		
PLOT DATE = 5/1/2019			REVISED -		ILLINOIS FED. AID PROJECT							

70400100 TEMPORARY CONCRETE BARRIER

	STATION	TO	STATION	FOOT	
EB S.N. 010-0031	RT 853+89.97		RT 855+77.47	187.5	TAPER
EB S.N. 010-0031	RT 855+77.47		RT 860+02.47	425.0	
WB S.N. 010-0032	LT 855+91.43		LT 860+16.44	425.0	
WB S.N. 010-0032	LT 860+16.44		LT 862+03.94	187.5	TAPER
TOTAL =				1,225.0	

70400200 RELOCATE TEMPORARY CONCRETE BARRIER

	STATION	TO	STATION	FOOT	
EB S.N. 010-0031	LT 853+89.97		LT 855+77.47	187.5	TAPER
EB S.N. 010-0031	LT 855+77.47		LT 860+02.47	425.0	
WB S.N. 010-0032	RT 855+91.43		RT 860+16.44	425.0	
WB S.N. 010-0032	RT 860+16.44		RT 862+03.94	187.5	TAPER
TOTAL =				1,225.0	

70600250 IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3

	STATION	EACH
EB S.N. 010-0031	RT 853+89.97	1.0
WB S.N. 010-0032	LT 862+03.94	1.0
TOTAL =		2.0

70600350 IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3

	STATION	EACH
EB S.N. 010-0031	LT 853+89.97	1.0
WB S.N. 010-0032	RT 862+03.94	1.0
TOTAL =		2.0

PLAN NOTES:

ALL STAGING DETAILS SHALL BE IN ACCORDANCE WITH TRAFFIC CONTROL AND PROTECTION STANDARDS 701400 AND 701402 AND PAID FOR AT THE CONTRACT UNIT PRICE PER EACH LOCATION.

ALL WORK WITHOUT TEMPORARY CONCRTE BARRIER IN PLACE SHALL BE IN ACCORDANCE WITH TRAFFIC CONTROL AND PROTECTION STANDARDS 701400 AND 701401.

FOR ADDITIONAL DETAILS ASSOCIATED WITH TEMPORARY CONCRETE BARRIER, SEE TRAFFIC CONTROL AND PROTECTION STANDARD 704001.

VERTICAL PANELS WITH LIGHTS AND REFLECTORS SHALL BE ATTACHED AT 25 FOOT CENTERS TO THE BARRIER WALL AND GUARDRAIL. COST INCLUDED WITH TRAFFIC CONTROL AND PROTECTION STANDARD 701402

REFLECTORIZED TEMPORARY MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER, AND ALONGSIDE BOTH SIDES OF THE WORK AREA. EXISTING MARKINGS THAT CONFLICT WITH THE STAGED TRAFFIC MARKINGS SHALL BE REMOVED. COST TO REMOVE EXISTING MARKINGS AND FOR THE PLACEMENT AND REMOVAL OF TEMPORARY MARKINGS SHALL BE INCLUDED WITH TRAFFIC CONTROL AND PROTECTION STANDARD 701402.

PORTABLE CHANGEABLE MESSAGE SIGNS ARE REQUIRED TWO WEEKS PRIOR TO CONSTRUCTION. THE RESIDENT ENGINEER OR TRAFFIC CONTROL SUPERVISOR SHALL PROVIDE AN APPROPRIATE MESSAGE.

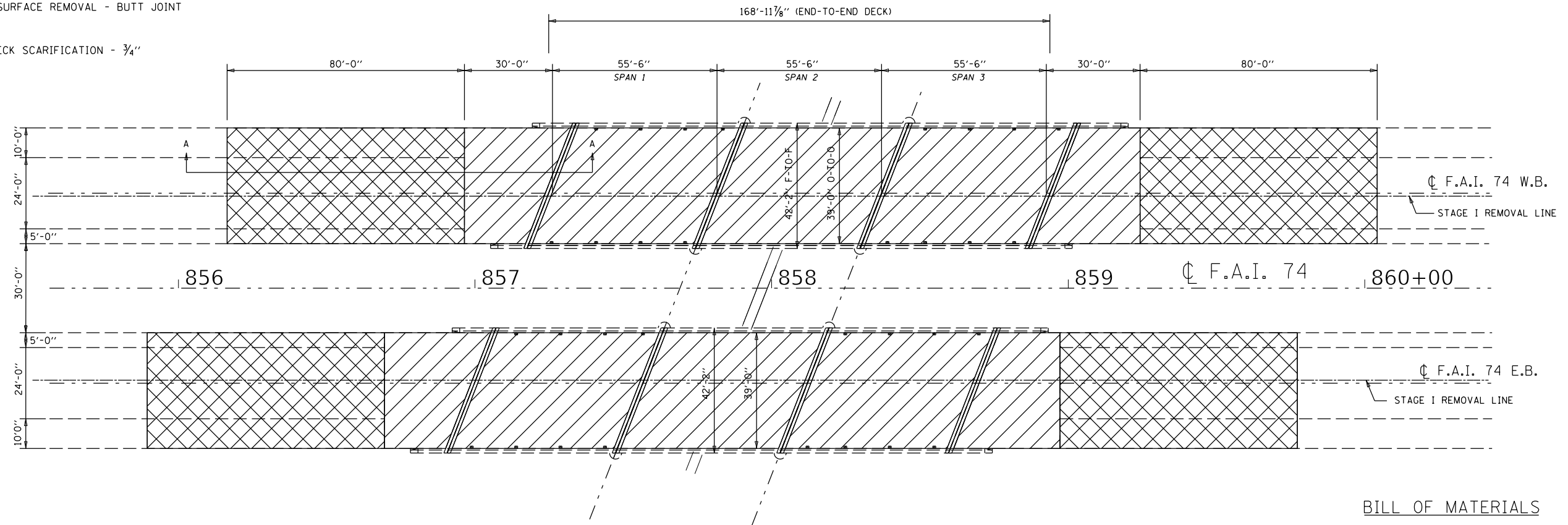
SEE SPECIAL PROVISION FOR FILLING INLETS, TEMPORARY.

BILL OF MATERIALS

ITEM	UNIT	TOTAL
TEMPORARY CONCRETE BARRIER	FOOT	1,225.0
IMPACT ATTENUATOR TEMPORARY NON-REDIRECTIVE TEST LEVEL 3	EACH	2.0
RELCOATE TEMP CONCRETE BARRIER	FOOT	1,225.0
REL IMPACT ATTENUATOR TEMPORARY NON-REDIRECTIVE TEST LEVEL 3	EACH	2.0

☒ HOT-MIX SURFACE REMOVAL - BUTT JOINT

▨ BRIDGE DECK SCARIFICATION - 3/4"



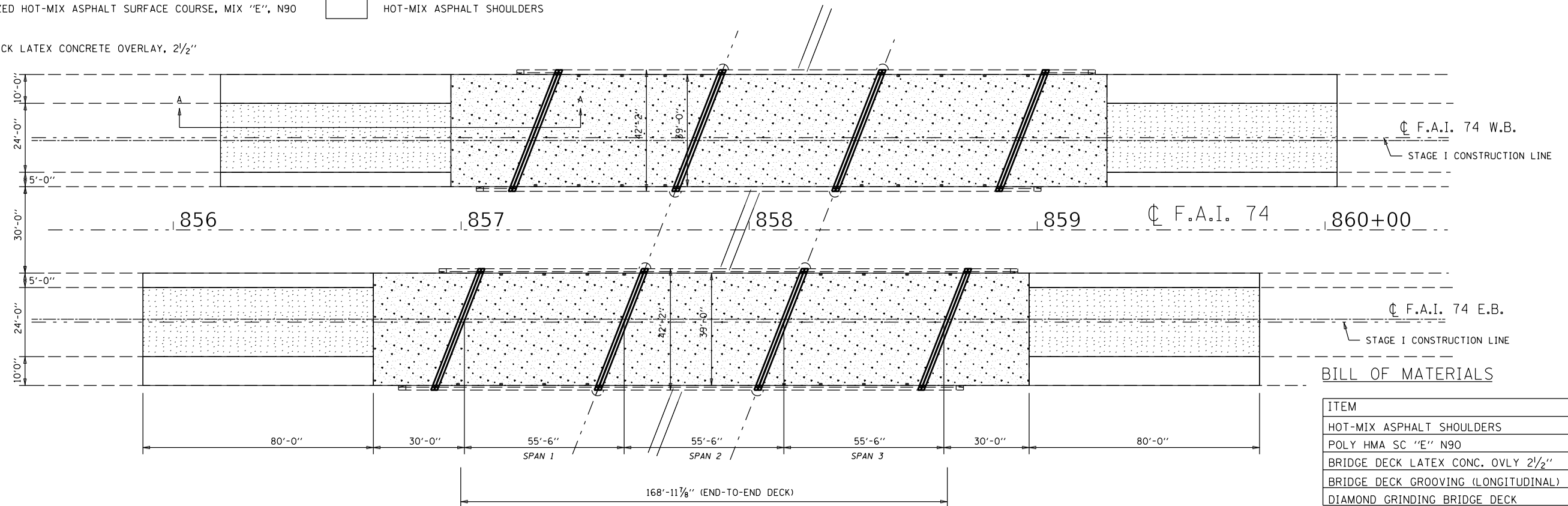
BILL OF MATERIALS

ITEM	UNIT	TOTAL
BRIDGE DECK SCARIFICATION - 3/4"	SQ YD	1,898.0
HMA SURFACE REMOVAL - BUTT JOINT	SQ YD	1,388.0

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

□ HOT-MIX ASPHALT SHOULDERS

▥ BRIDGE DECK LATEX CONCRETE OVERLAY, 2 1/2"



BILL OF MATERIALS

ITEM	UNIT	TOTAL
HOT-MIX ASPHALT SHOULDERS	TON	60.0
POLY HMA SC "E" N90	TON	156.0
BRIDGE DECK LATEX CONC. OVLY 2 1/2"	SQ YD	1,898.0
BRIDGE DECK GROOVING (LONGITUDINAL)	SQ YD	1,215.0
DIAMOND GRINDING BRIDGE DECK	SQ YD	1,848.0

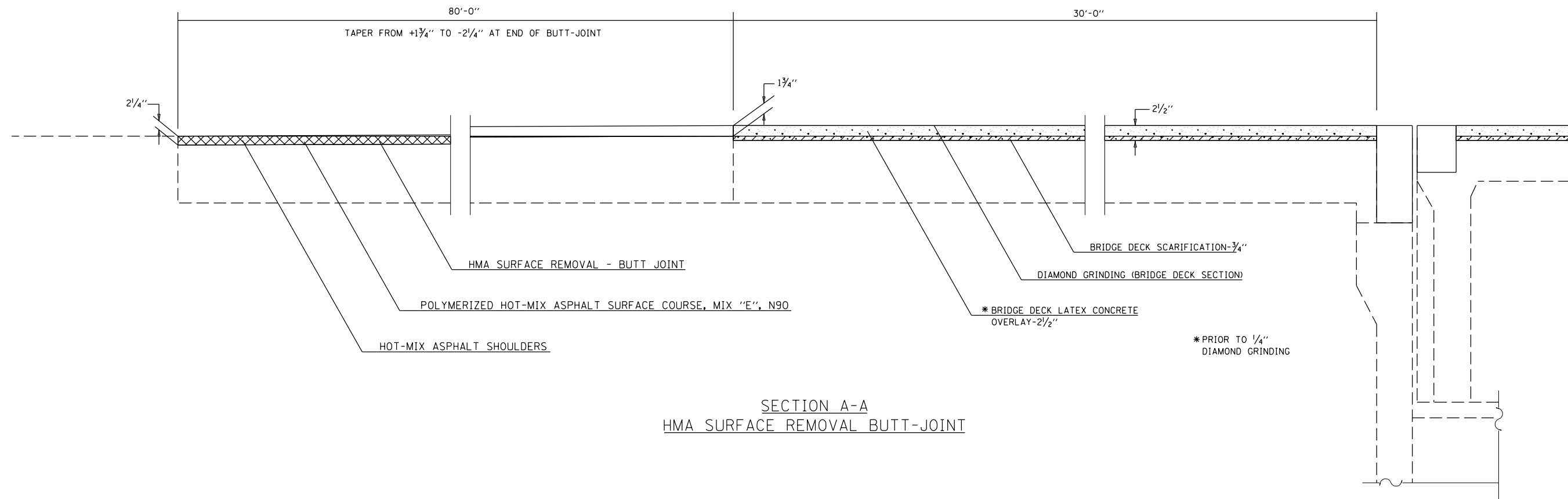
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	PLOT SCALE = 40.0000' / in.	DATE - 030518	REVISED -
	PLOT DATE = 5/1/2019		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**WEARING SURFACE DETAIL
S.N.(s) 010-0031 & 0032**

SCALE: NONE SHEET NO. 6 OF 28 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-6.7)BDR	CHAMPAIGN	99	13
CONTRACT NO. 70B92			ILLINOIS FED. AID PROJECT	



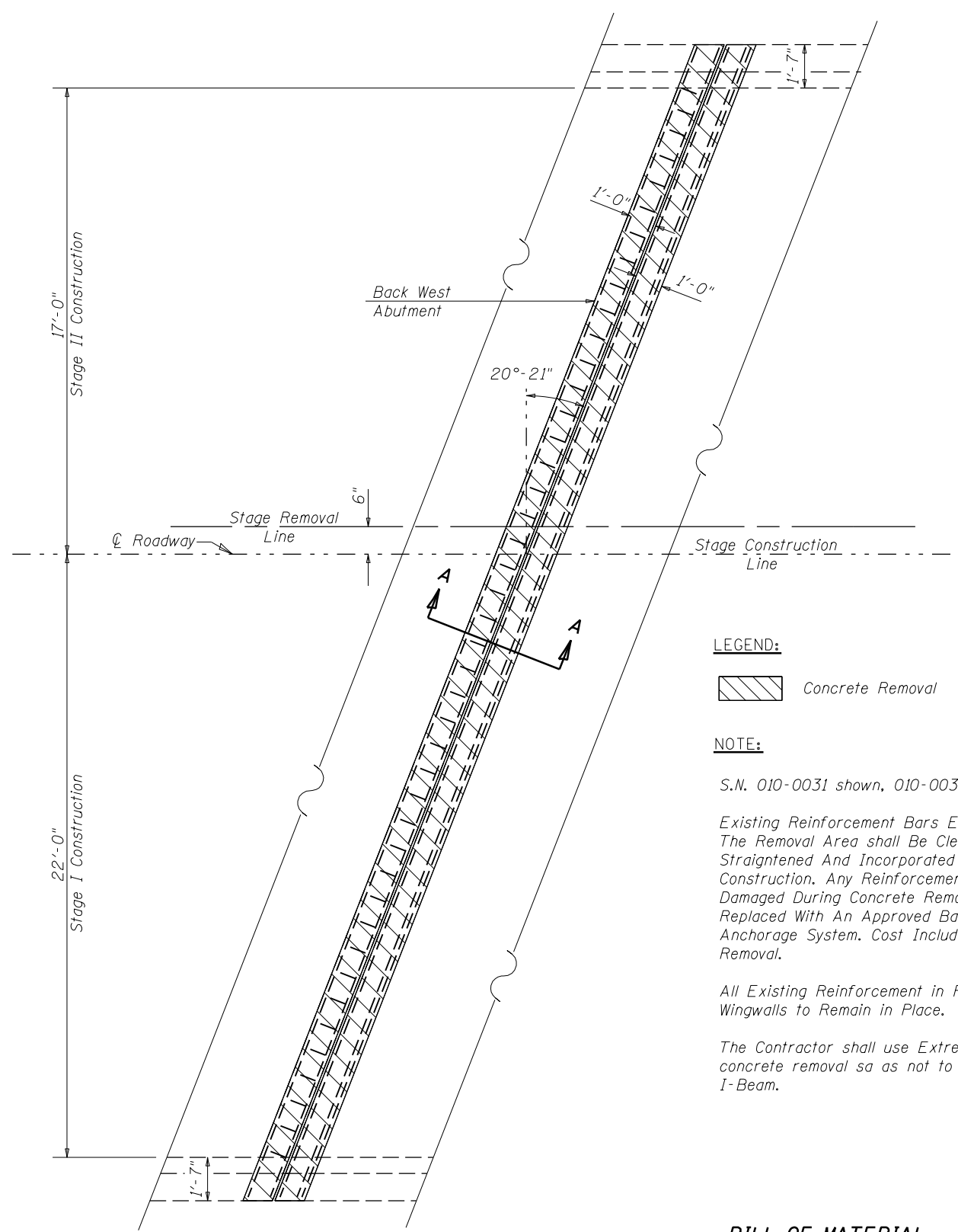
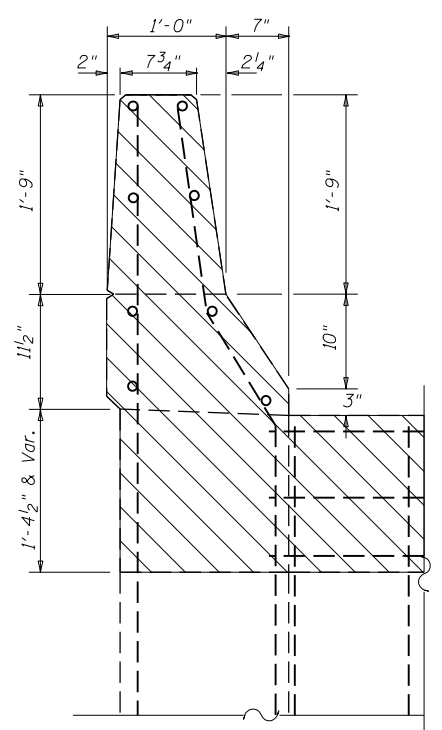
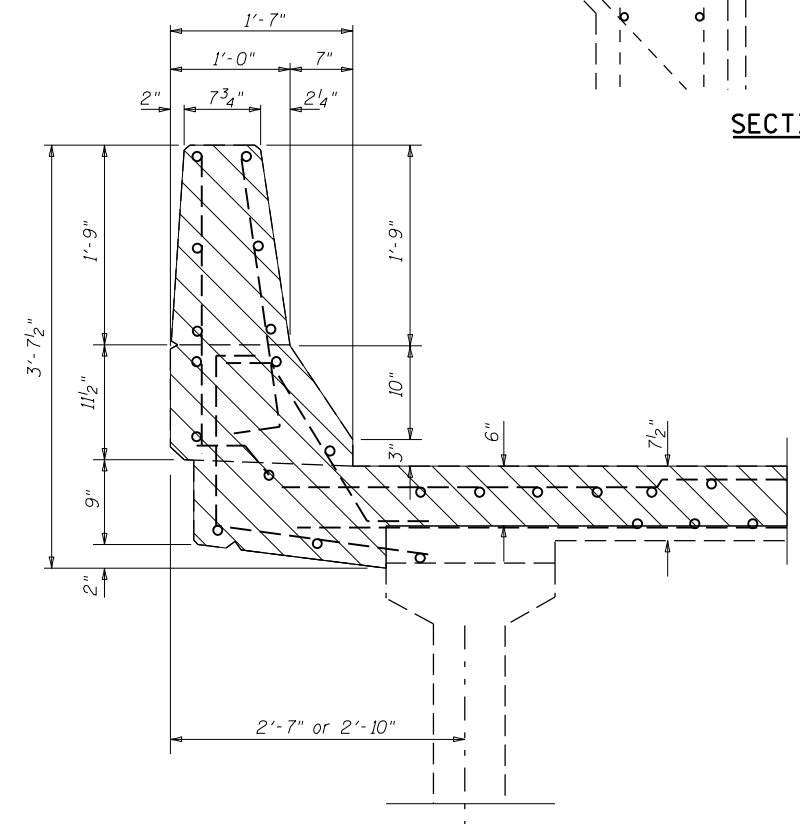
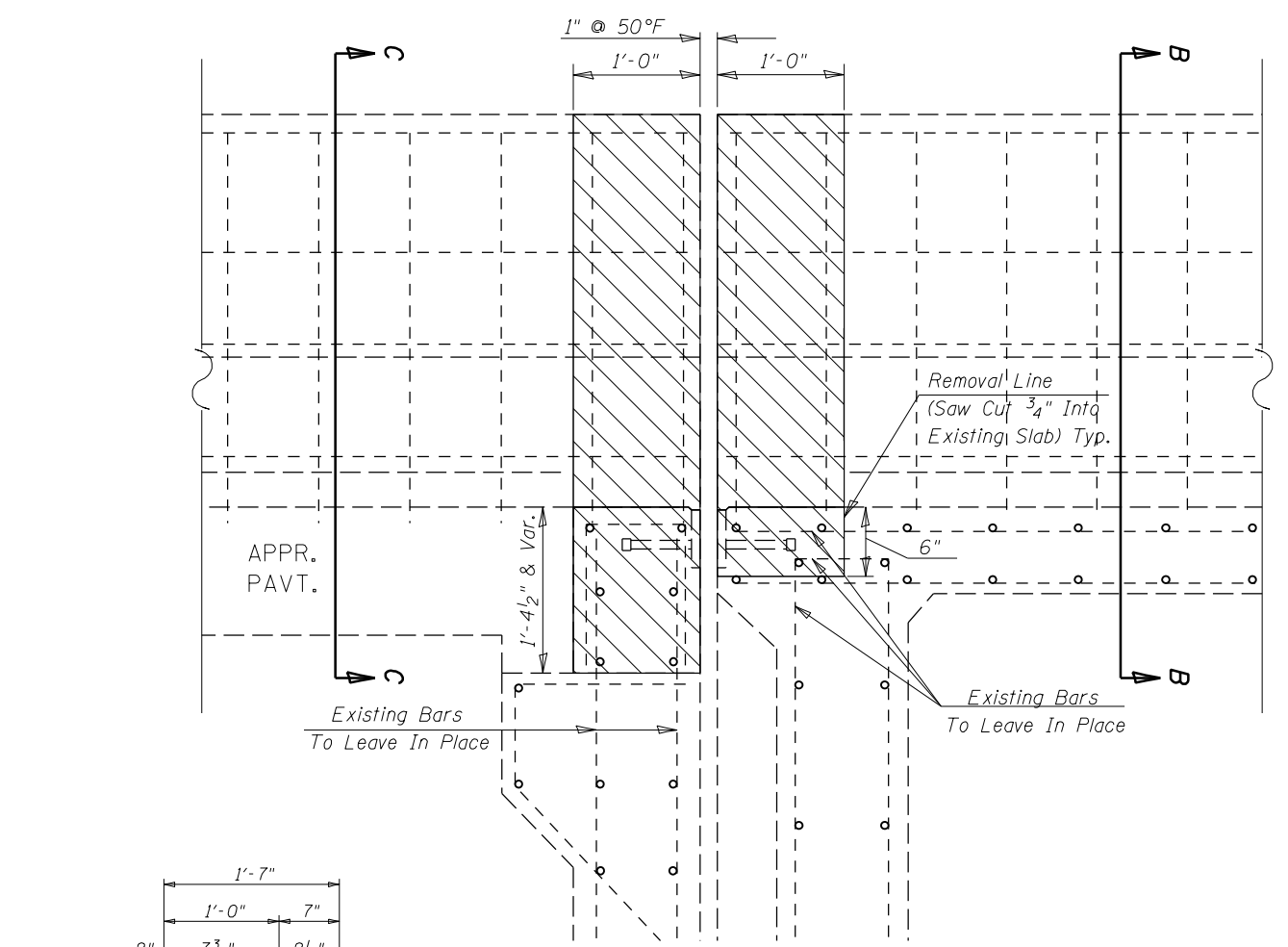
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	PLOT SCALE = 40.0000' / in.	DATE - 030518	REVISED -
	PLOT DATE = 5/1/2019		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WEARING SURFACE DETAIL
S.N.(s) 010-0031 & 0032

SCALE: NONE SHEET NO. 7 OF 28 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-6.7)BDR	CHAMPAIGN	99	14
CONTRACT NO. 70B92				
ILLINOIS FED. AID PROJECT				



LEGEND:

Concrete Removal

NOTE:

S.N. 010-0031 shown, 010-0032 similar.

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.

All Existing Reinforcement in Parapets and Wingwalls to Remain in Place.

The Contractor shall use Extreme Care during concrete removal so as not to damage the PPC I-Beam.

BILL OF MATERIAL

Item	Unit	Total
Concrete Removal	Cu Yd	12.8

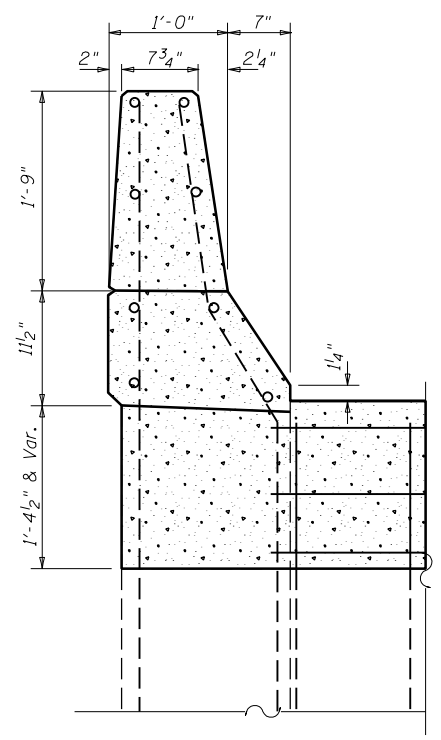
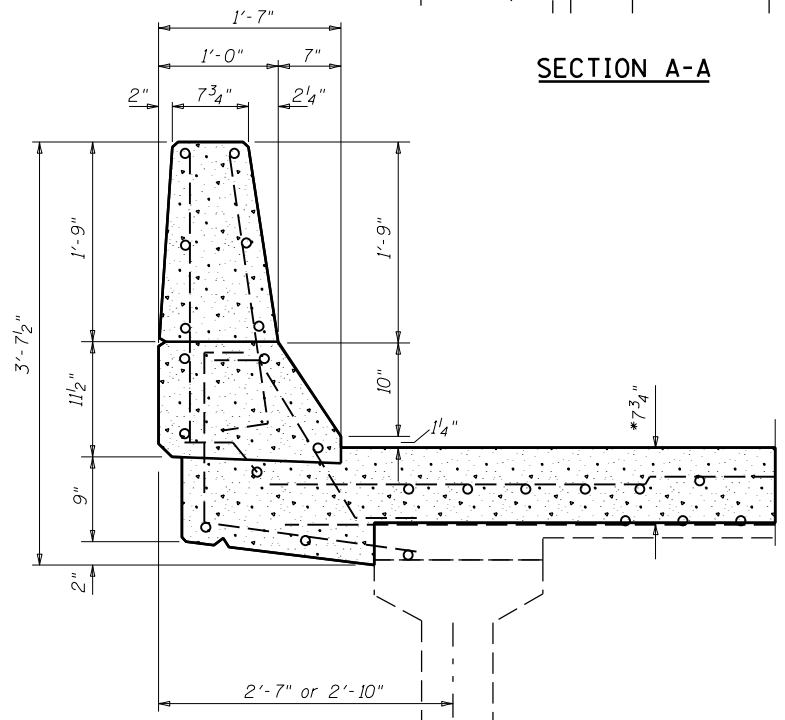
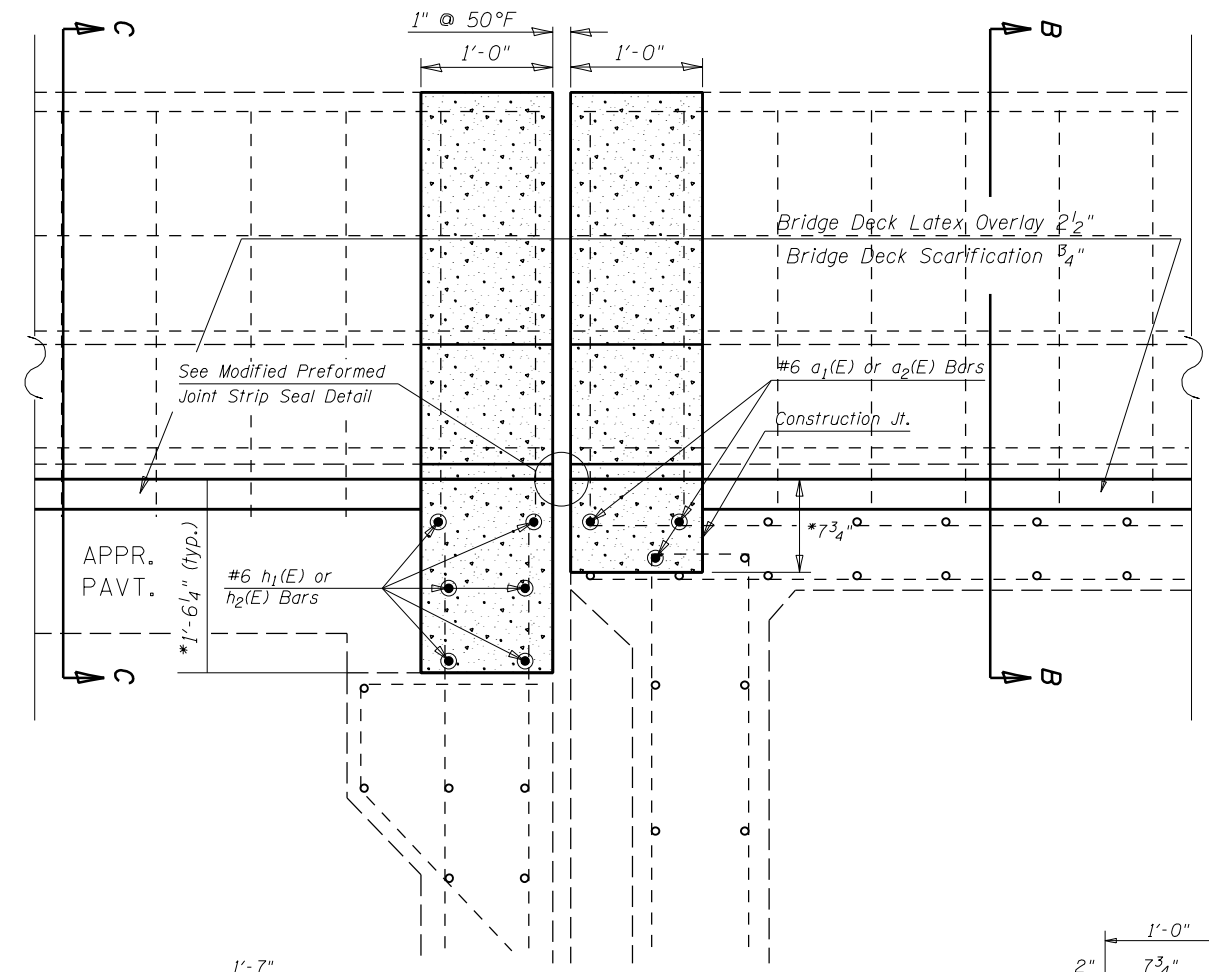
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PLOT SCALE = 40.0000' / in.	CHECKED -	DATE - 030518	REVISED -
PLOT DATE = 5/1/2019			REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETAIL OF CONCRETE REMOVAL AT ABUTMENTS
S.N.(s) 010-0031 & 0032**

SCALE: NONE SHEET NO. 8 OF 28 SHEETS STA. TO STA.

F.A.I. RE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-6.7)BDR	CHAMPAIGN	99	15
CONTRACT NO. 70B92				
ILLINOIS FED. AID PROJECT				

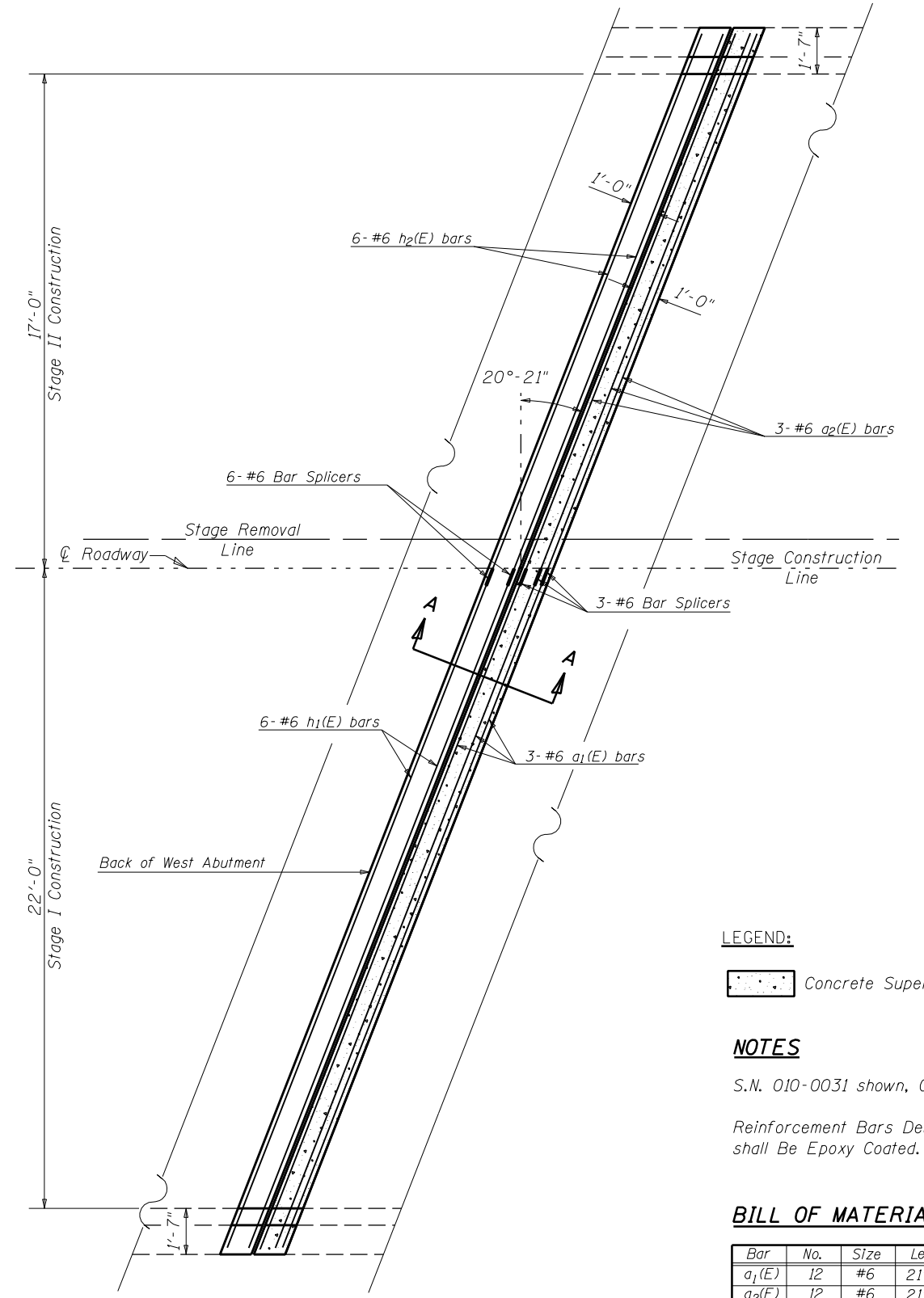


SECTION A-A

SECTION C-C

SECTION B-B

*Prior to 1/4" Diamond Grinding



PLAN VIEW

West Abutment Shown
East Abutment similar by rotation

LEGEND:

Concrete Superstructures

NOTES

S.N. 010-0031 shown, 010-0032 similar.

Reinforcement Bars Designated (E) shall Be Epoxy Coated.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a ₁ (E)	12	#6	21'-6"	—
a ₂ (E)	12	#6	21'-2"	—
h ₁ (E)	24	#6	21'-6"	—
h ₂ (E)	24	#6	21'-2"	—
Reinforcement Bars, Epoxy Coated		Pound	2,845.0	
Bar Splicers		Each	36.0	
Concrete Superstructures		Cu Yd	14.8	

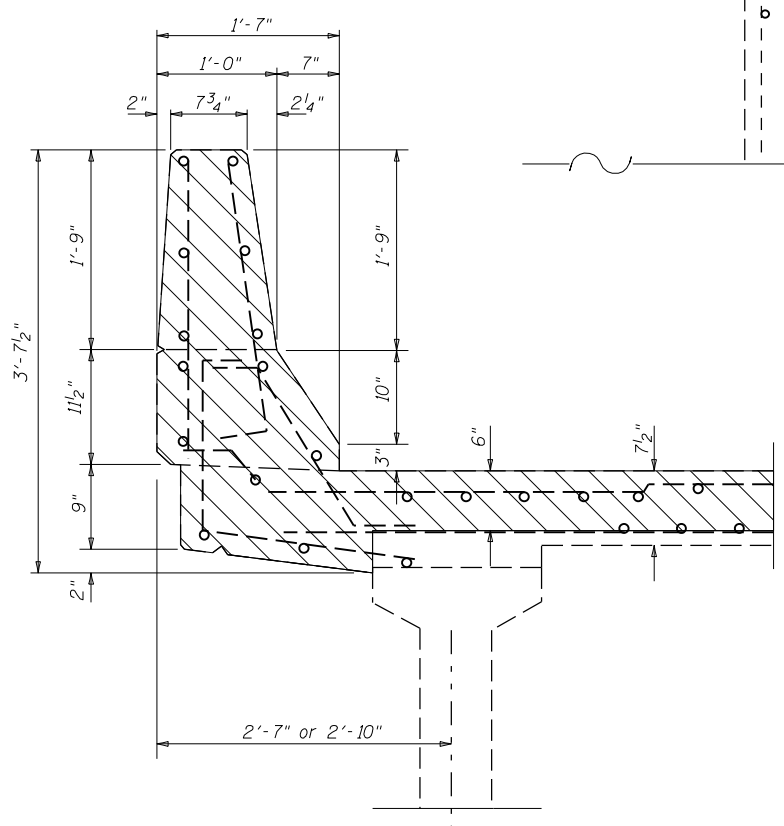
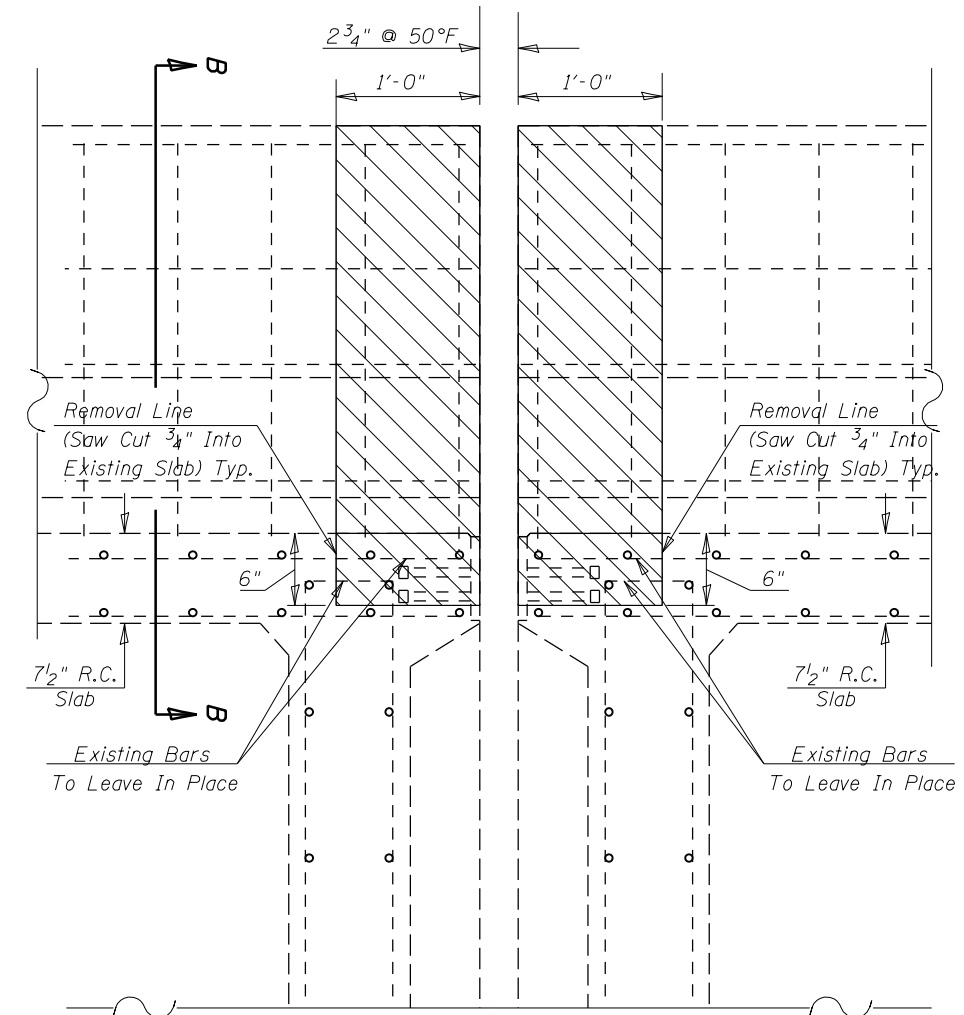
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PLOT DATE = 11/21/2019			

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETAIL OF CONCRETE SUPERSTRUCTURE AT ABUTMENTS
S.N.(s) 010-0031 & 0032**

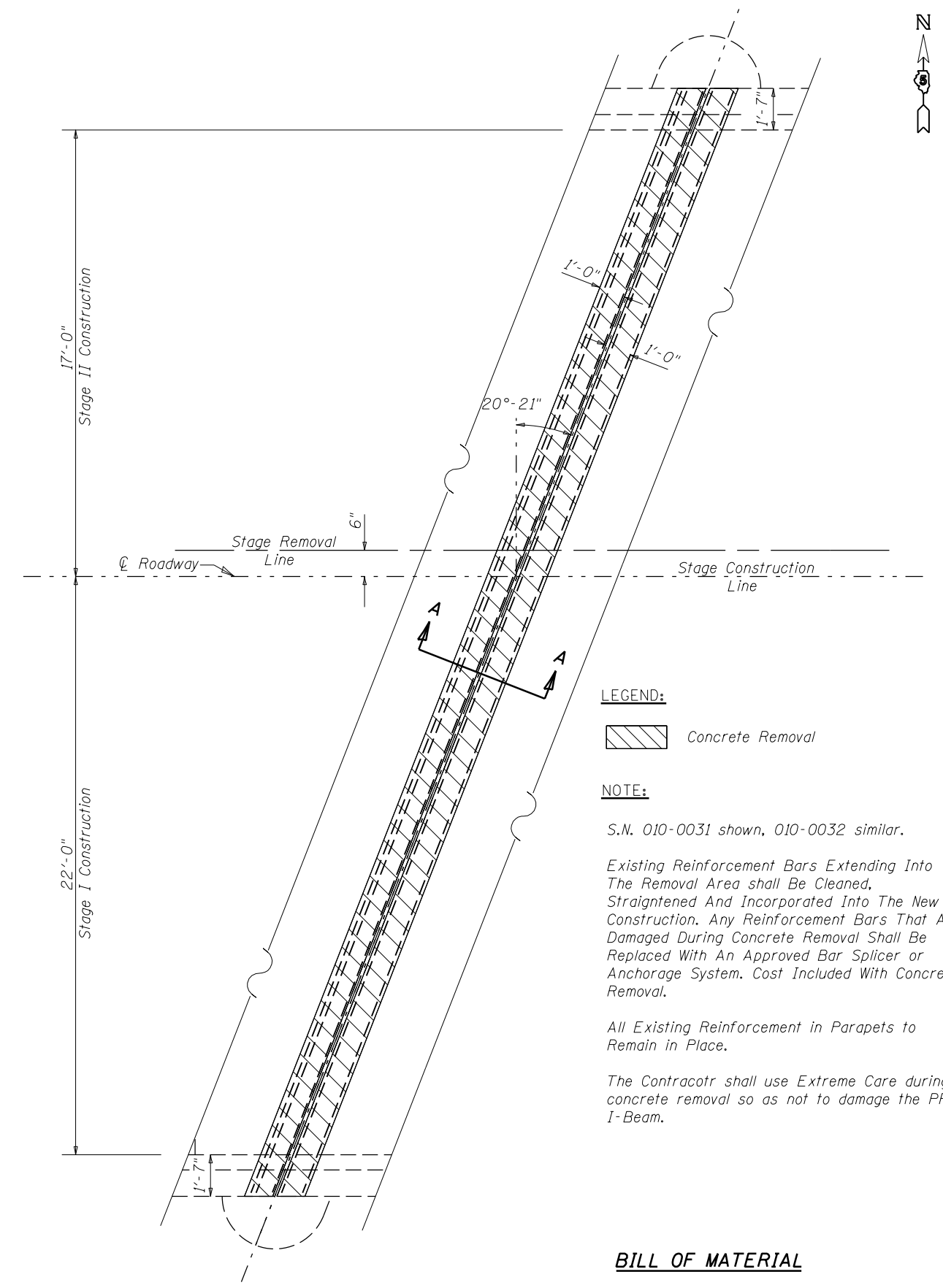
SCALE: NONE SHEET NO. 9 OF 28 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-6.7)BDR	CHAMPAIGN	99	16
CONTRACT NO. 70B92				
ILLINOIS FED. AID PROJECT				



SECTION A-A

SECTION B-B



PLAN VIEW

LEGEND:

Concrete Removal

NOTE:

S.N. 010-0031 shown, 010-0032 similar.

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.

All Existing Reinforcement in Parapets to Remain in Place.

The Contractor shall use Extreme Care during concrete removal so as not to damage the PPC I-Beam.

BILL OF MATERIAL

Item	Unit	Total
Concrete Removal	Cu Yd	3.6

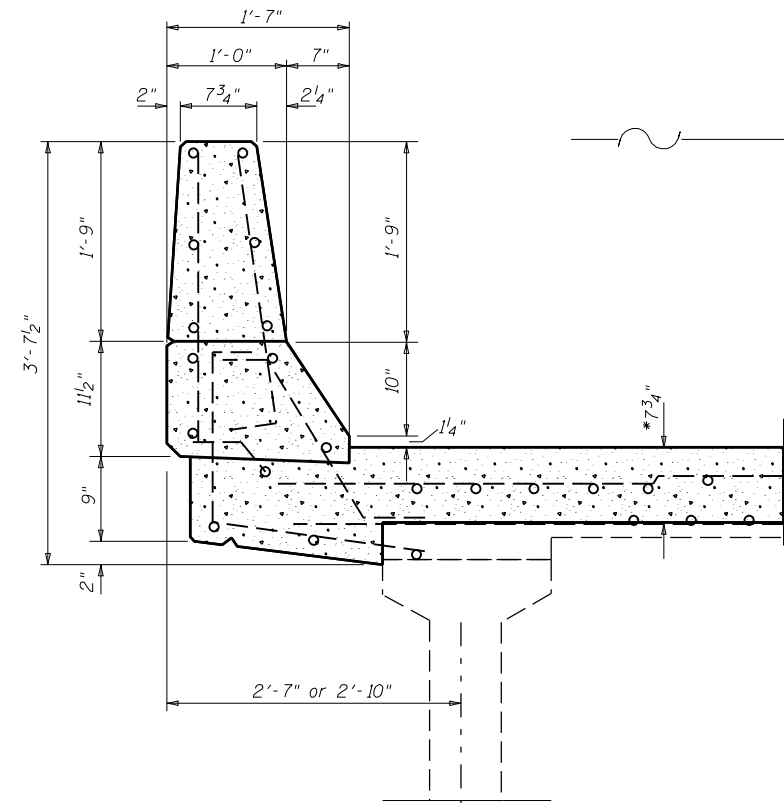
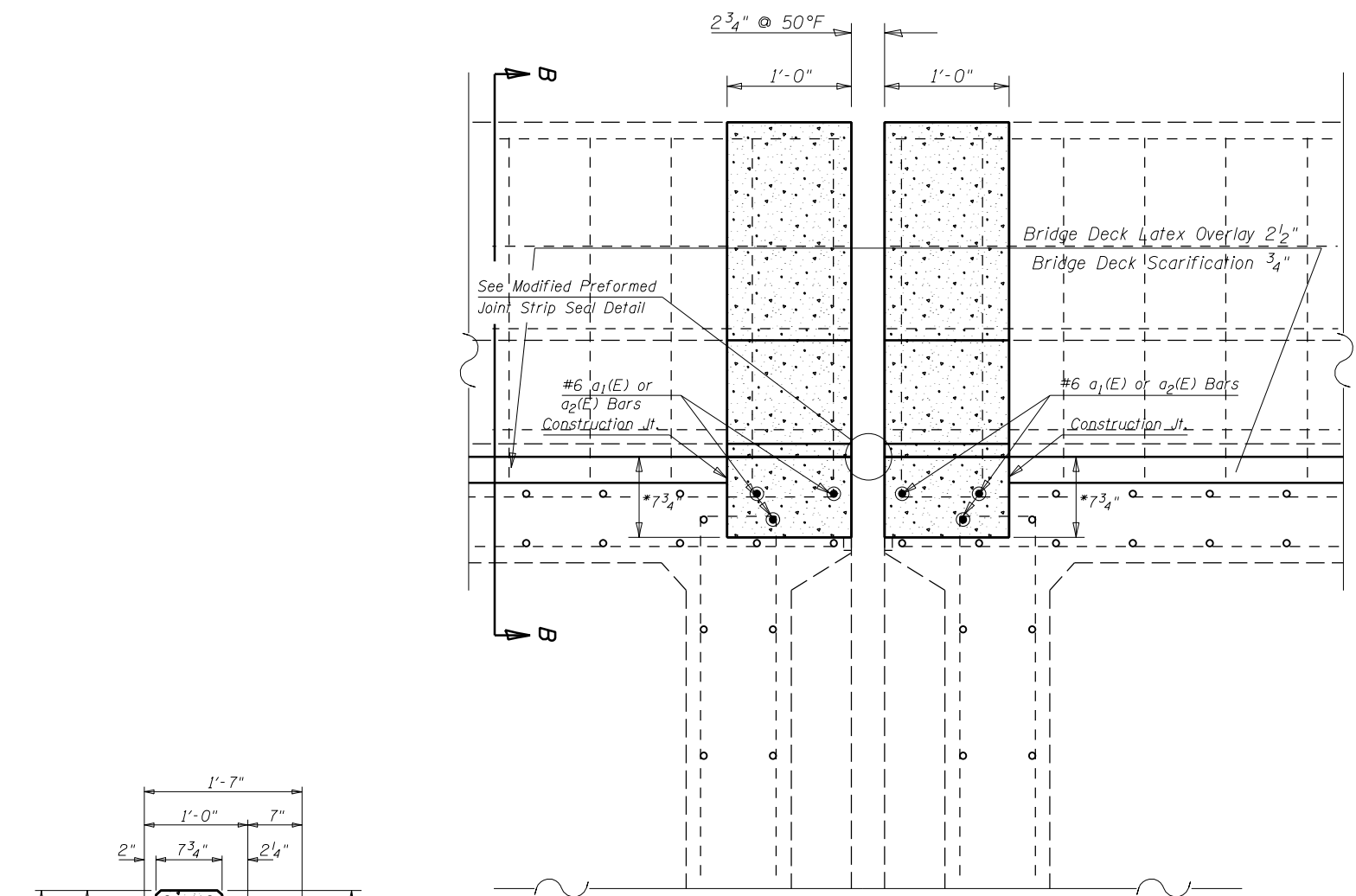
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PLOT DATE = 5/1/2019	DATE - 030518	REVISOR -	REVISOR -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETAIL OF STRUCTURAL CONCRETE REMOVAL PIER 1
S.N.(s) 010-0031 & 0032**

SCALE: NONE SHEET NO. 10 OF 28 SHEETS STA. TO STA.

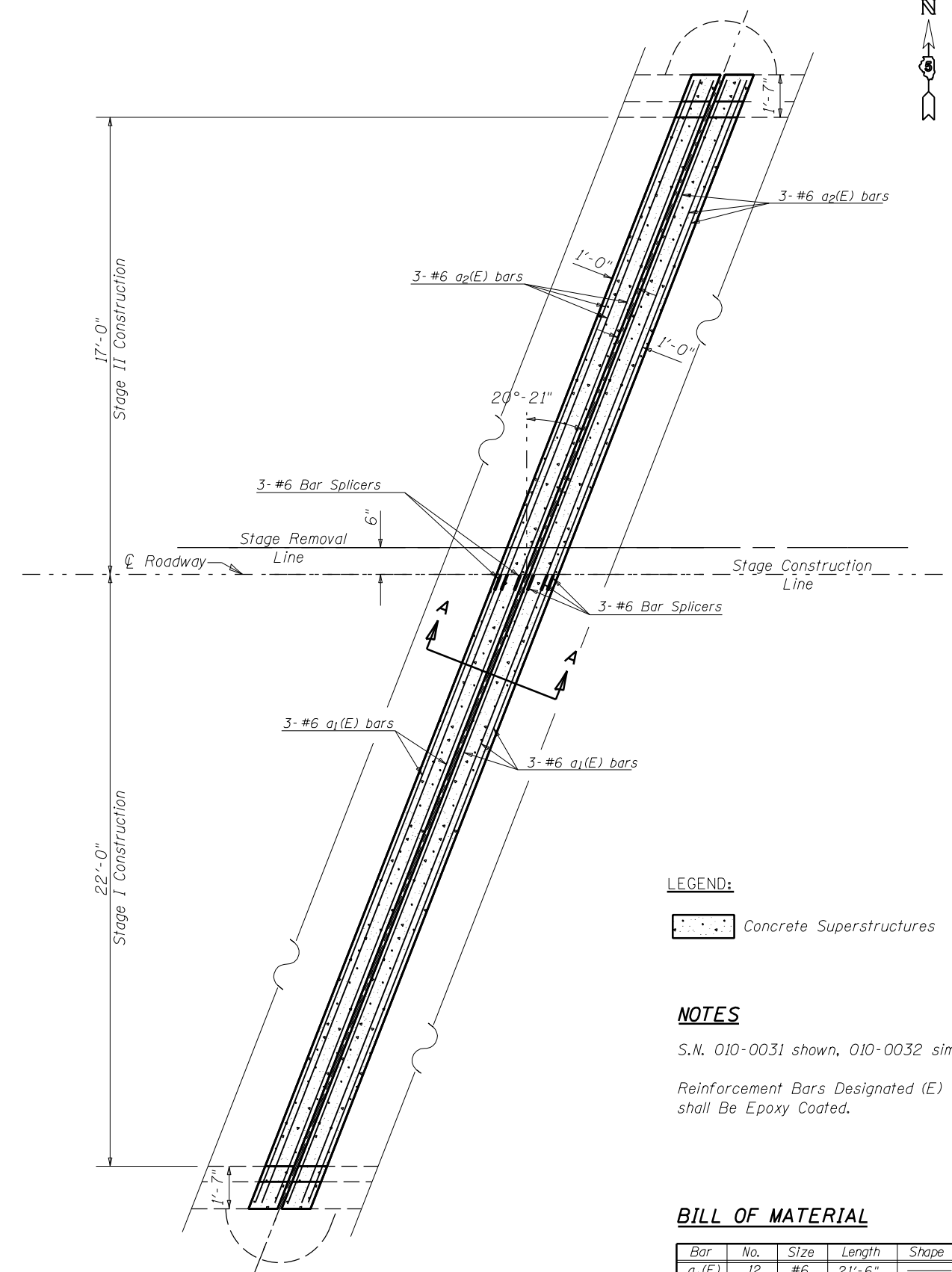
F.A.I. RE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-6.7)BDR	CHAMPAIGN	99	17
CONTRACT NO. 70B92			ILLINOIS FED. AID PROJECT	



SECTION A-A

SECTION B-B

*Prior to 1/4" Diamond Grinding



PLAN VIEW

LEGEND:

Concrete Superstructures

NOTES

S.N. 010-0031 shown, 010-0032 similar.
Reinforcement Bars Designated (E) shall Be Epoxy Coated.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a ₁ (E)	12	#6	21'-6"	—
a ₂ (E)	12	#6	21'-2"	—
Reinforcement Bars, Epoxy Coated			Pound	770.0
Bar Splicers			Each	12.0
Concrete Superstructures			Cu Yd	4.8

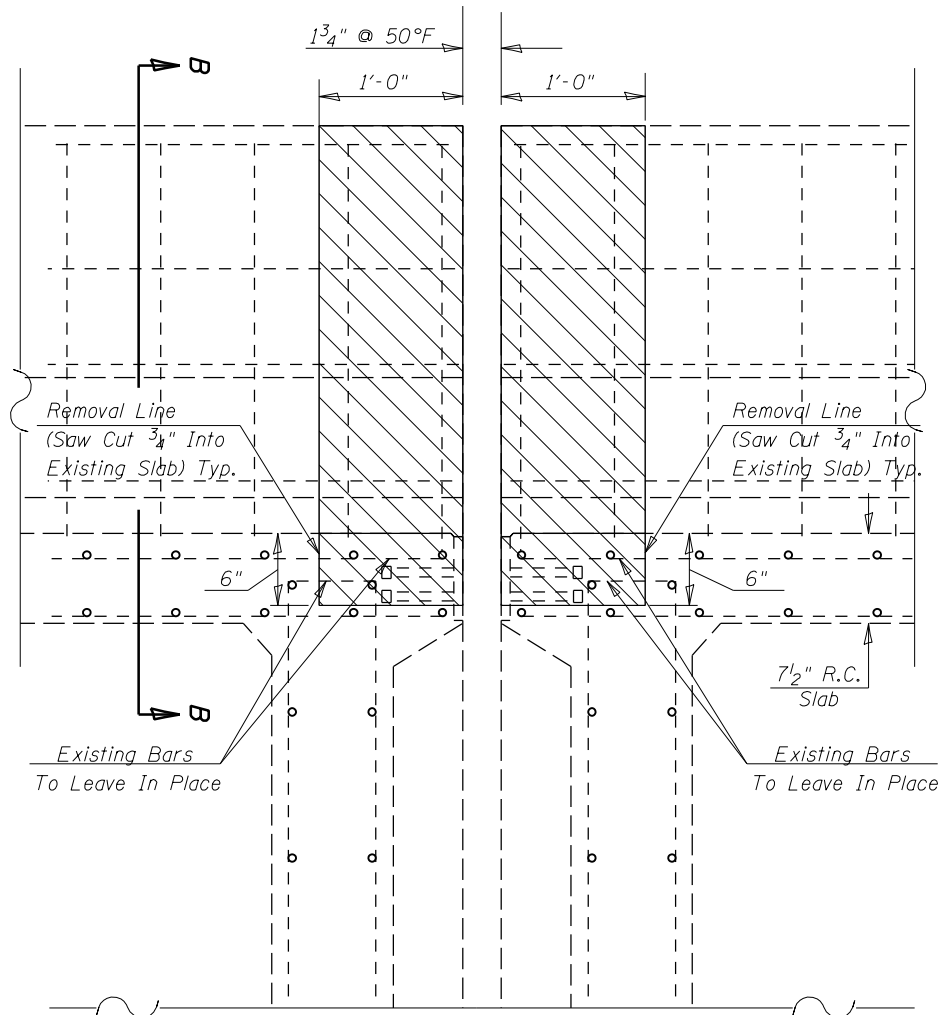
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PLOT DATE = 11/21/2019			

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

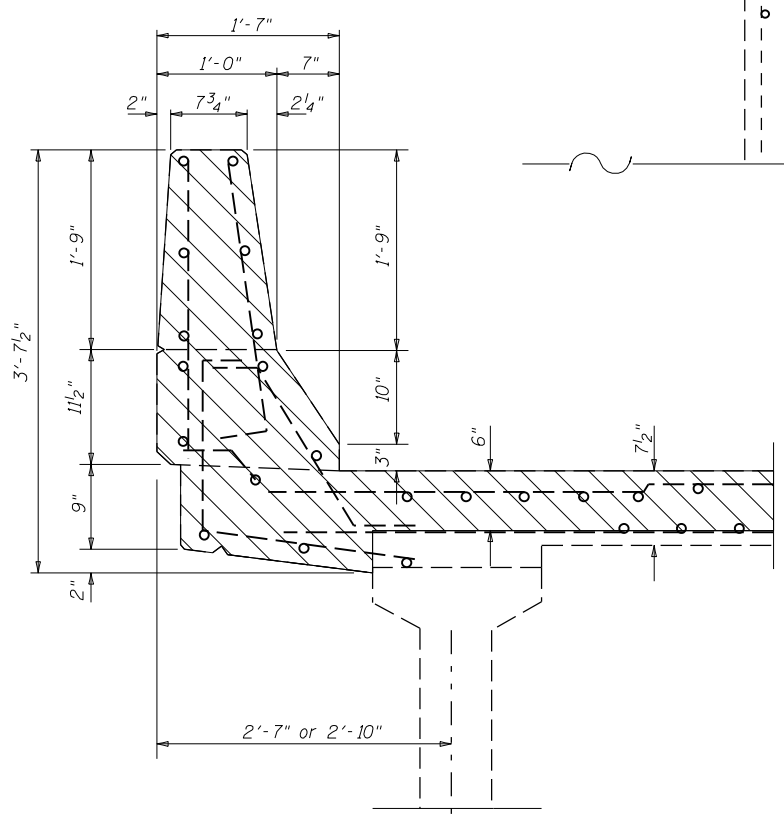
**DETAIL OF CONCRETE SUPERSTRUCTURE PIER 1
S.N.(s) 010-0031 & 0032**

SCALE: NONE SHEET NO. 11 OF 28 SHEETS STA. TO STA.

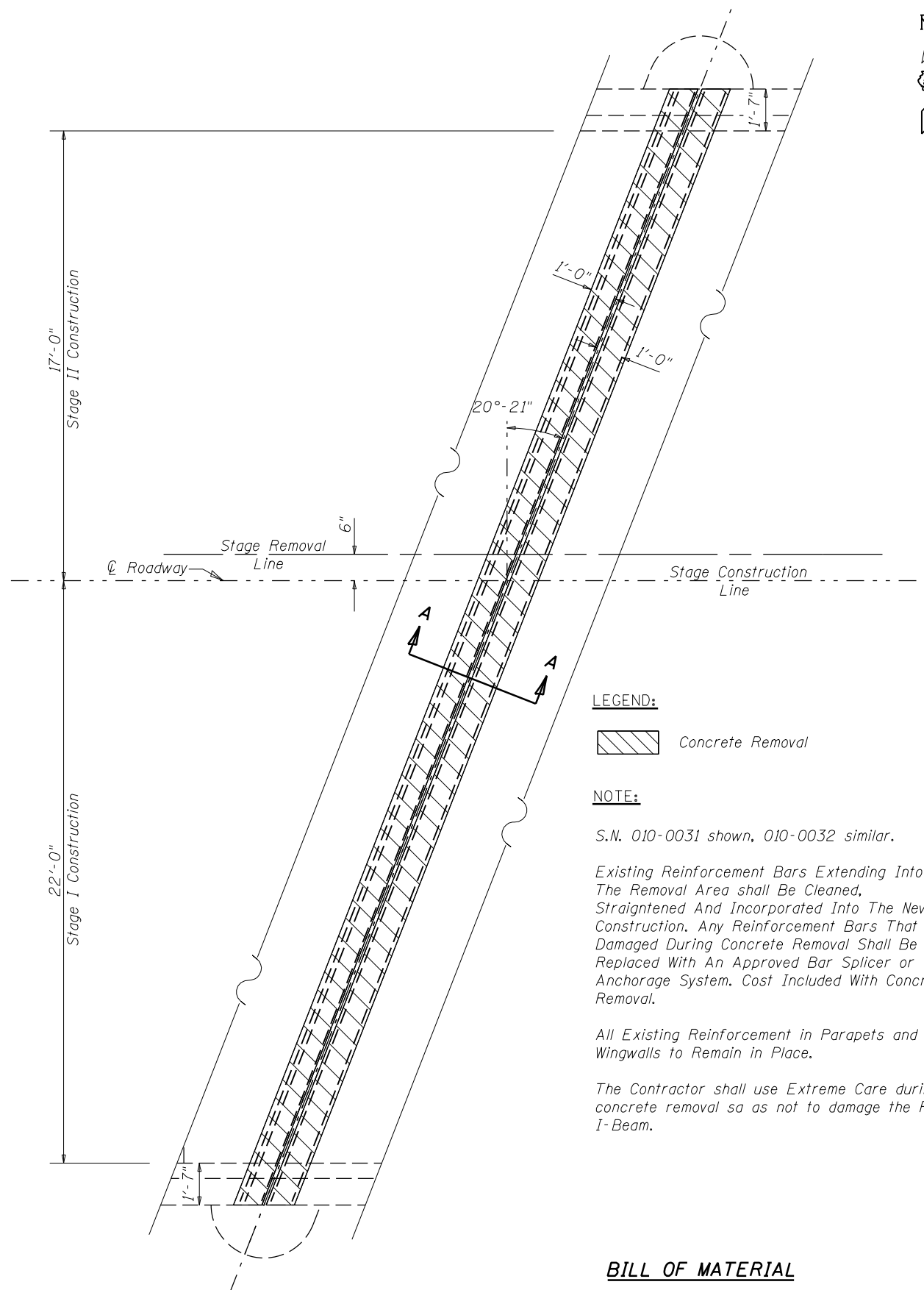
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-6.7)BDR	CHAMPAIGN	99	18
CONTRACT NO. 70B92				
ILLINOIS FED. AID PROJECT				



SECTION A-A



SECTION B-B



PLAN VIEW

LEGEND:

Concrete Removal

NOTE:

S.N. 010-0031 shown, 010-0032 similar.

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.

All Existing Reinforcement in Parapets and Wingwalls to Remain in Place.

The Contractor shall use Extreme Care during concrete removal so as not to damage the PPC I-Beam.

BILL OF MATERIAL

Item	Unit	Total
Concrete Removal	Cu Yd	3.6

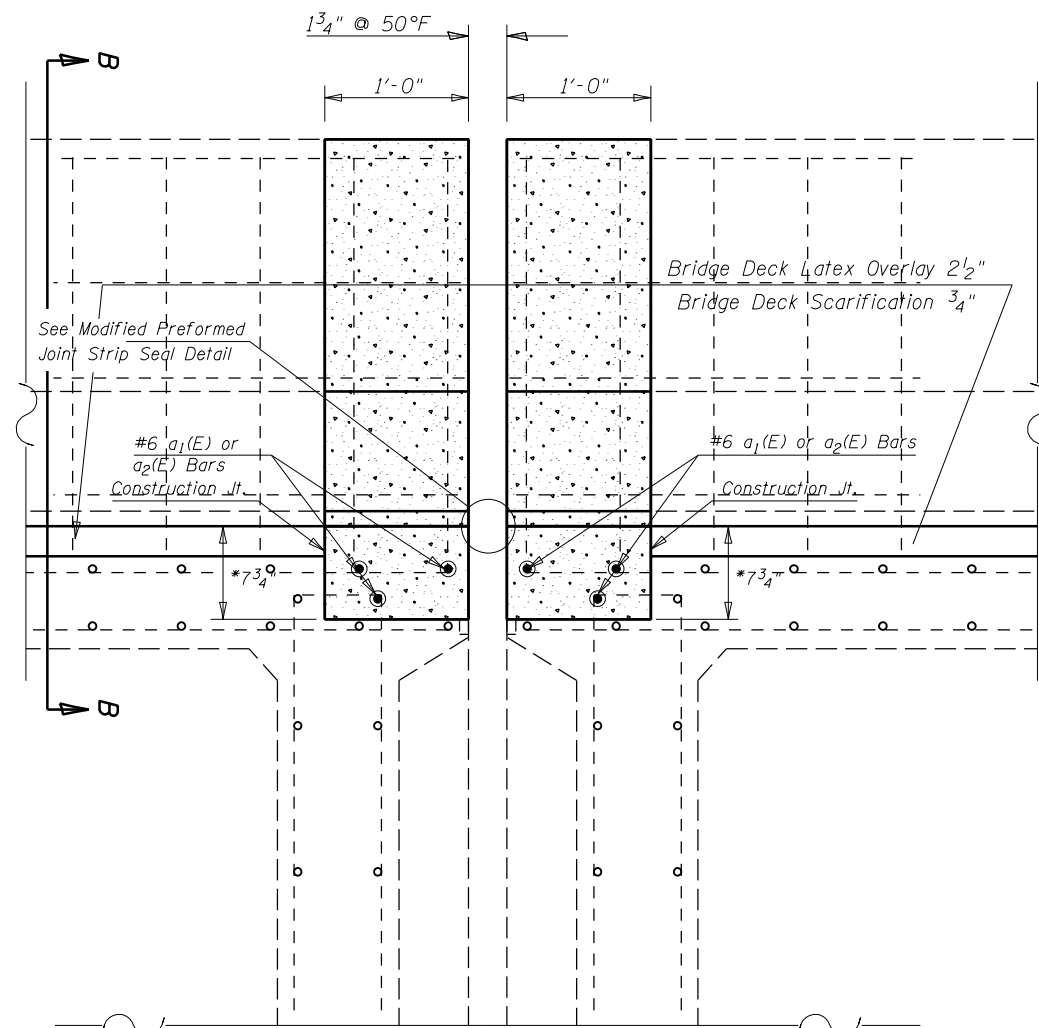
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	PLOT DATE = 5/1/2019		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

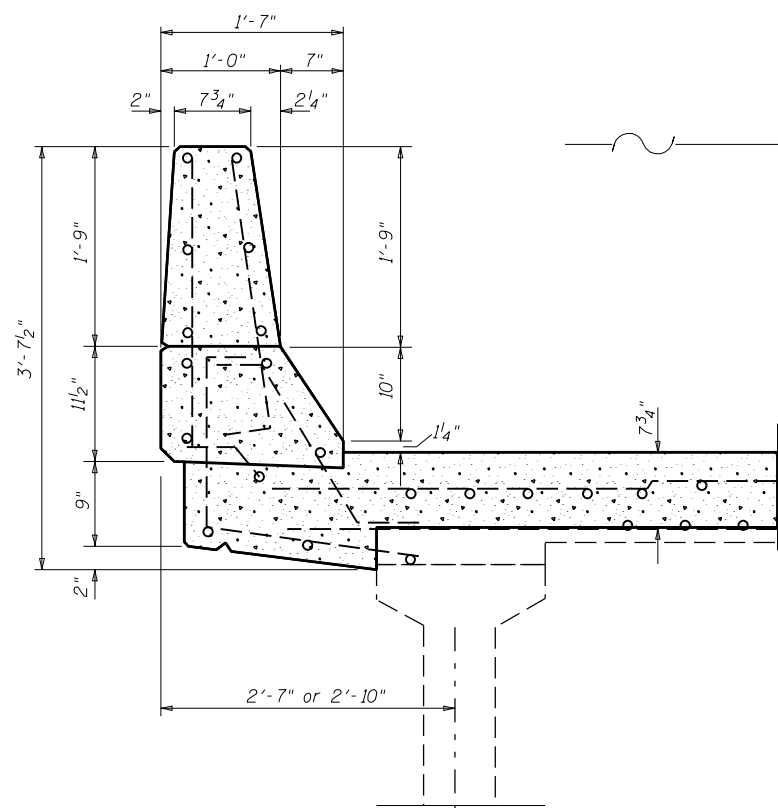
**DETAIL OF CONCRETE REMOVAL PIER 2
S.N.(s) 010-0031 & 0032**

SCALE: NONE SHEET NO. 12 OF 28 SHEETS STA. TO STA.

F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-6.7)BDR	CHAMPAIGN	99	19
ILLINOIS FED. AID PROJECT			CONTRACT NO. 70B92	

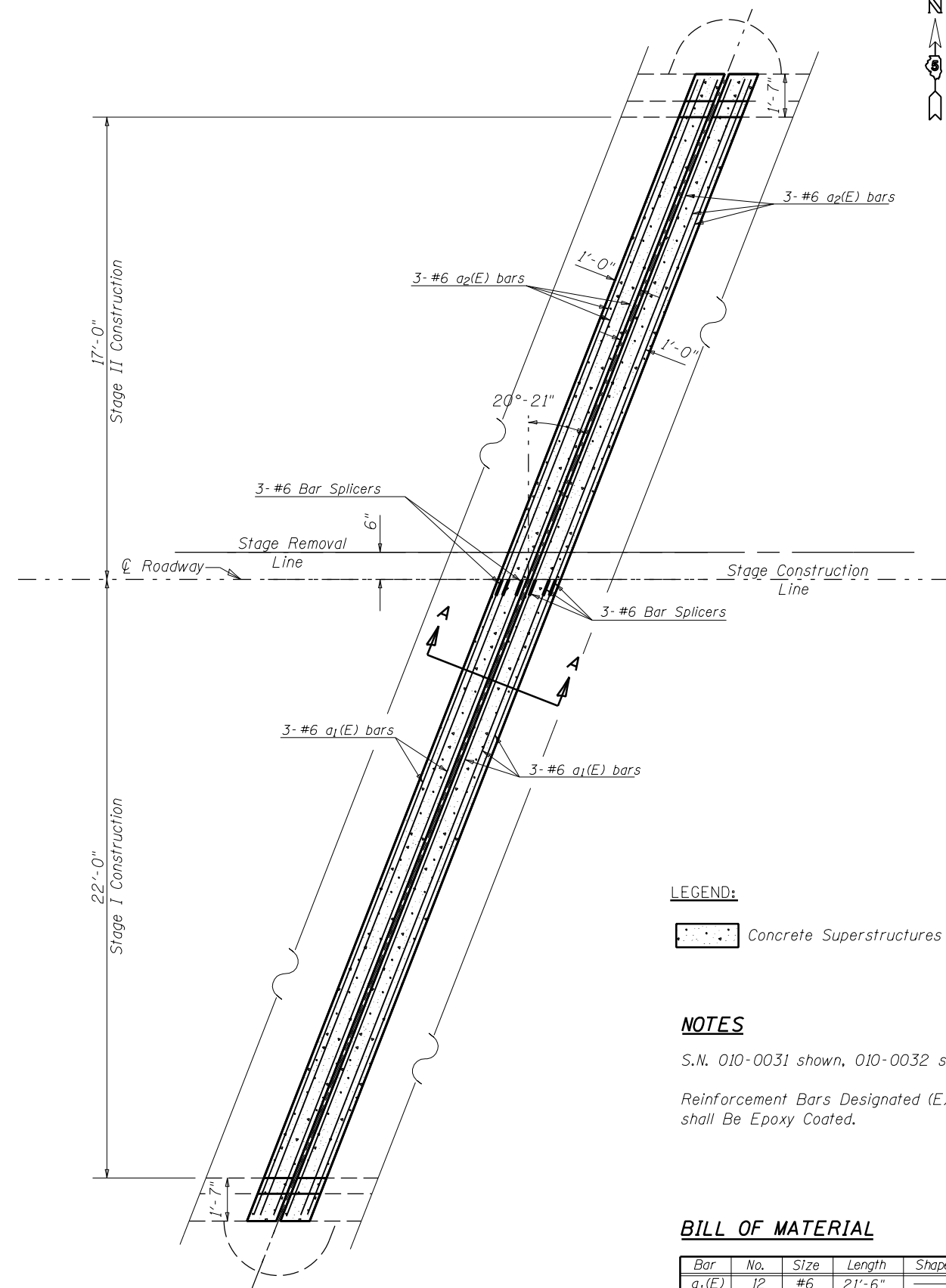


SECTION A-A
CONCRETE SUPERSTRUCTURE



SECTION B-B

*Prior to 1/4" Diamond Grinding



PLAN VIEW

LEGEND:

Concrete Superstructures

NOTES

S.N. 010-0031 shown, 010-0032 similar.
Reinforcement Bars Designated (E) shall Be Epoxy Coated.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a ₁ (E)	12	#6	21'-6"	—
a ₂ (E)	12	#6	21'-2"	—
Reinforcement Bars, Epoxy Coated			Pound	770.0
Bar Splicers			Each	12.0
Concrete Superstructures			Cu Yd	4.8

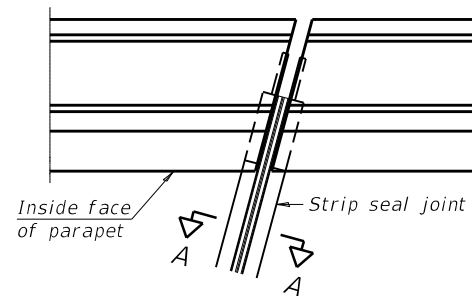
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PLOT DATE = 11/21/2019		DATE - 030518	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAIL OF CONCRETE SUPERSTRUCTURE PIER 2
S.N.(s) 010-0031 & 0032

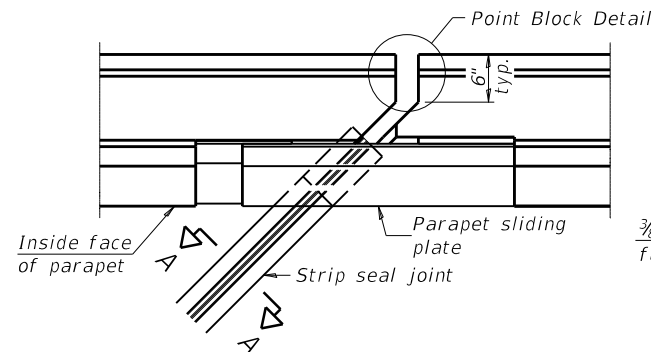
SCALE: NONE SHEET NO. 13 OF 28 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-6.7)BDR	CHAMPAIGN	99	20
CONTRACT NO. 70B92				
ILLINOIS FED. AID PROJECT				

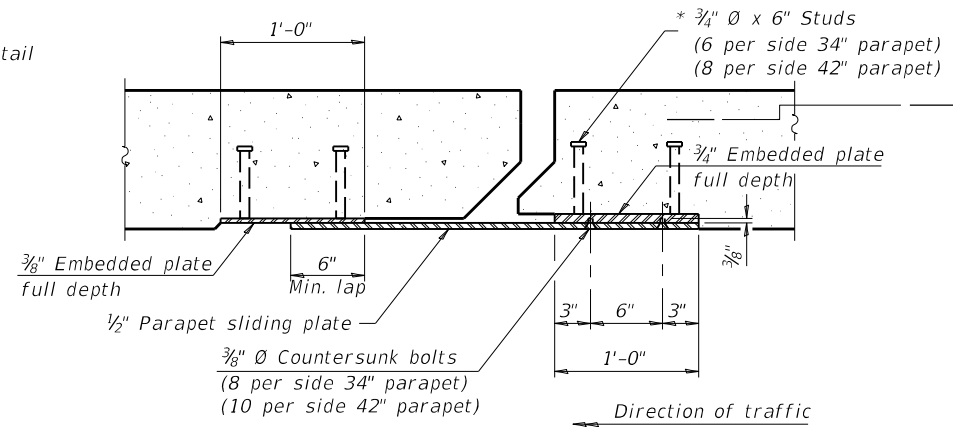


FOR SKEWS $\leq 30^\circ$

PLAN AT PARAPET

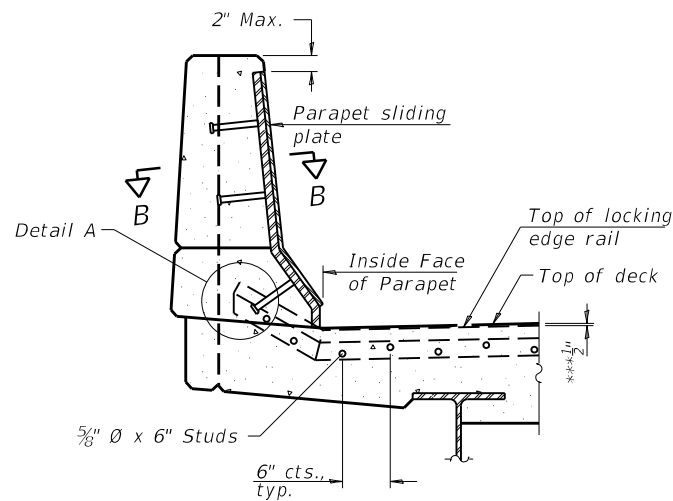


FOR SKEWS $> 30^\circ$



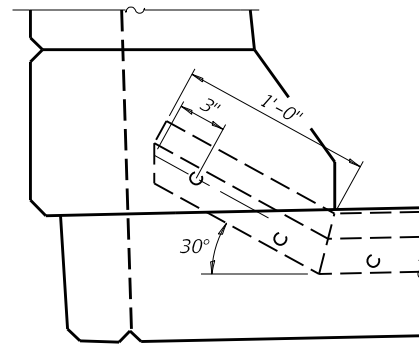
SECTION B-B

Notes:
 The strip seal shall be made continuous and shall have a minimum thickness of $\frac{1}{4}$ ". 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 $4\frac{1}{2}$ " maximum depth provided the anchorage system is revised according to the manufacturer's recommendation.
 The manufacturer's recommended installation methods shall be followed.

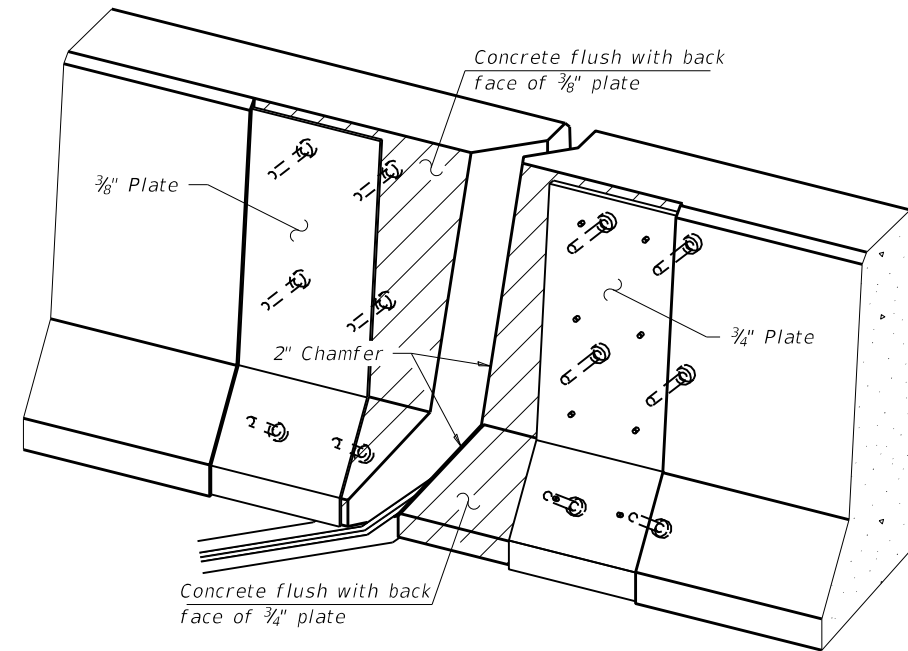


ELEVATION AT PARAPET

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

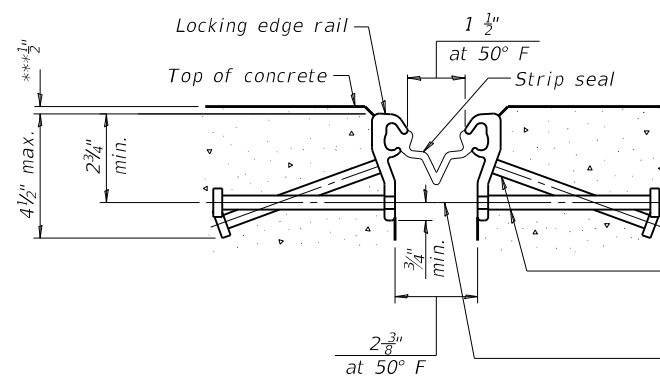


DETAIL A



TRIMETRIC VIEW
 (Showing embedded plates only)

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 $\frac{3}{16}$ " 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.

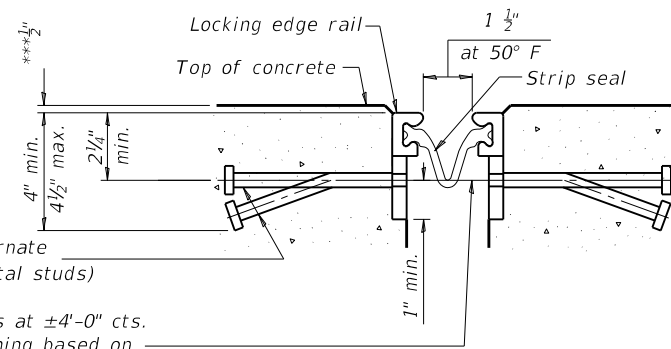


SHOWING ROLLED RAIL JOINT

* $\frac{5}{8}$ " ϕ x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)
 $\frac{3}{8}$ " ϕ threaded rods in $\frac{7}{16}$ " 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.

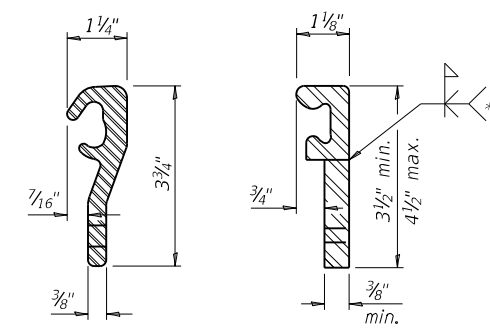
SECTION A-A

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



SHOWING WELDED RAIL JOINT

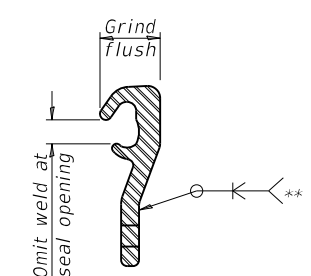
***Prior to $\frac{1}{4}$ " Diamond Grinding



LOCKING EDGE RAILS

LOCKING EDGE RAILS

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



LOCKING EDGE RAIL SPLICE

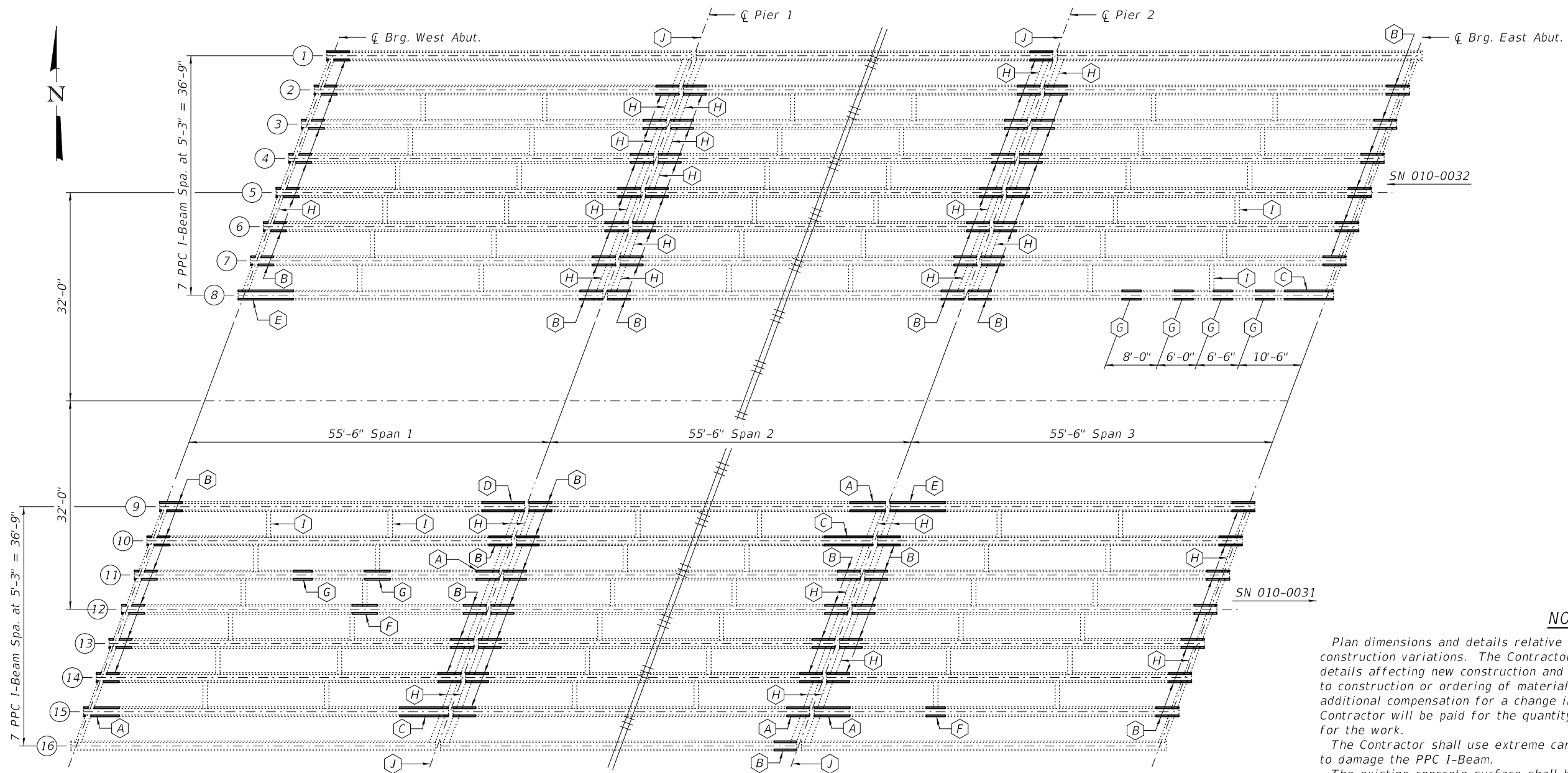
The inside of the locking edge rail groove shall be free of weld residue. Rolled rail shown, welded rail similar.

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	352.0

EJ-SS 8-11-17

FILE NAME =	USER NAME = shererjm	DESIGNED - JMS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETAIL OF STRIP SEAL JOINT S.N.(s) 010-0031 & 0032			F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\planroom\dot.illinois.gov\PWIDOT\Documents\IDOT Offices\District 5\Projects\0570892\Drawings\Structural\MSD570892-sht-010-0031		CHECKED -	REVISED -		74	(10-6.7)BDR	CHAMPAIGN	99	21			
PLOT SCALE = 40.0000' / in.		DATE - 030518	REVISED -		CONTRACT NO. 70B92			ILLINOIS FED. AID PROJECT				
PLOT DATE = 5/1/2019				SCALE: NONE	SHEET NO. 14 OF 28 SHEETS	STA.	TO STA.					



FRAMING PLAN

- (A) - Location of PPC I-Beam Repair - Repair A
- (B) - Location of PPC I-Beam Repair - Repair B
- (C) - Location of PPC I-Beam Repair - Repair C
- (D) - Location of PPC I-Beam Repair - Repair D
- (E) - Location of PPC I-Beam Repair - Repair E
- (F) - Location of PPC I-Beam Repair - Repair F
- (G) - Location of PPC I-Beam Repair - Repair G
- (H) - End Diaphragm Repair
- (I) - Interior Diaphragm Repair
- (J) - Bearing Removal & Replacement (Beams 2 - 15)

NOTES

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

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.

See Special Provisions for "FRP Strengthening for PPC I-Beam Repairs".

See Special Provisions for "Precast Prestressed Concrete I-Beam Repair".

Acrylic coating shall be placed over Fiber Wrap repairs. Two coats shall be applied.

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Fiber Wrap	Sq. Ft.	1022
Acrylic Coating	Sq. Yd.	122
Precast Prestressed Concrete I-Beam Repair	Sq. Ft.	222
Elastomeric Bearing Assembly, Type I	Each	42
Jack and Remove Existing Bearings	Each	51
Furnishing and Erecting Structural Steel	Pound	9440
Anchor Bolts, 1"Ø	Each	112
Structural Repair of Concrete (Depth ≤ 5")	Sq. Ft.	23
Structural Repair of Concrete (Depth > 5")	Sq. Ft.	123
Temporary Shoring and Cribbing	Each	5

DESIGNED - JSB
 CHECKED - SMR
 DRAWN - daburdell
 CHECKED - SMR JSB

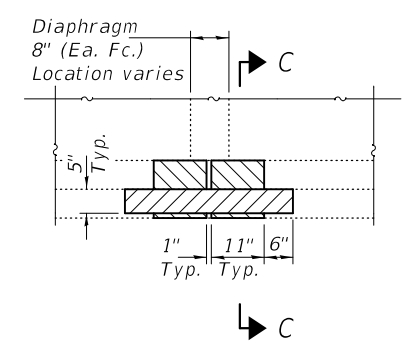
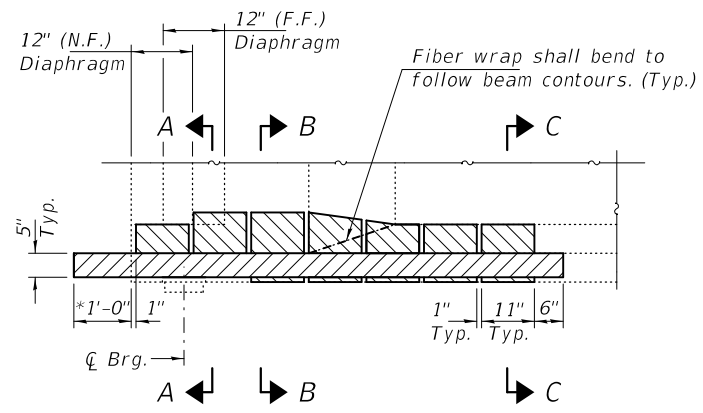
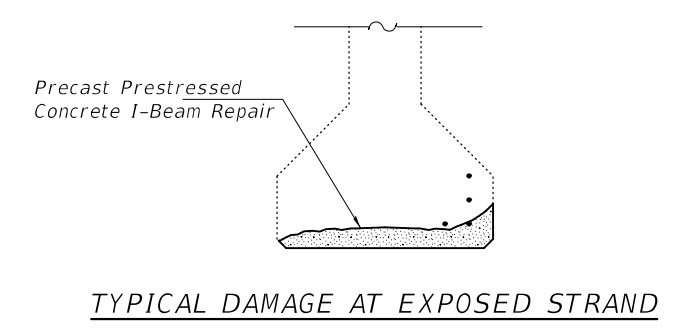
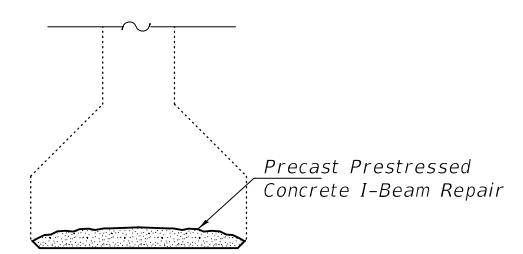
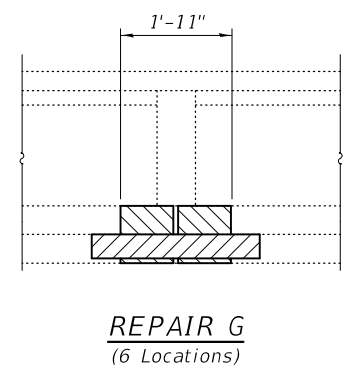
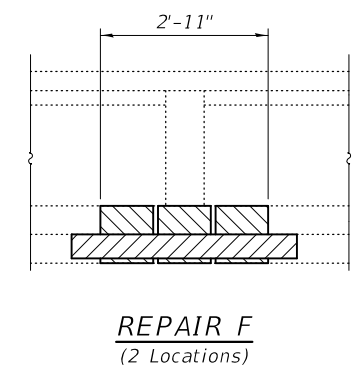
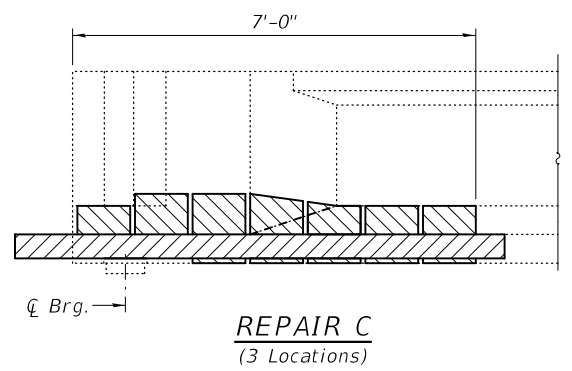
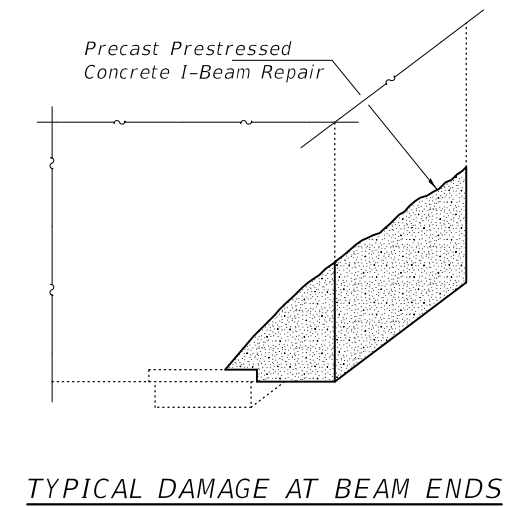
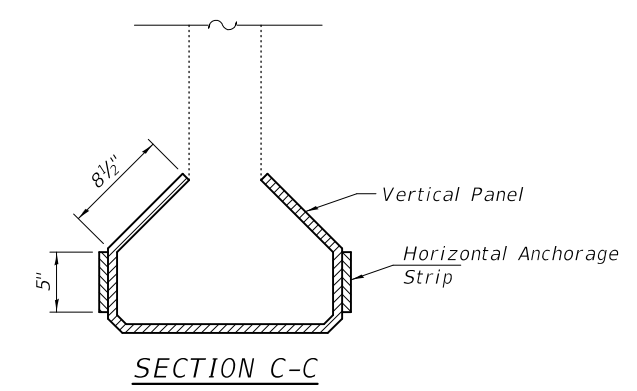
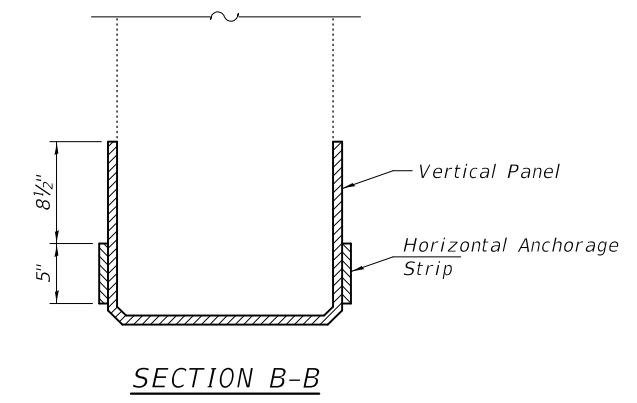
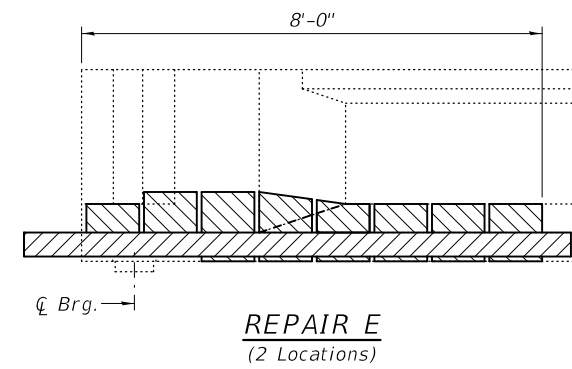
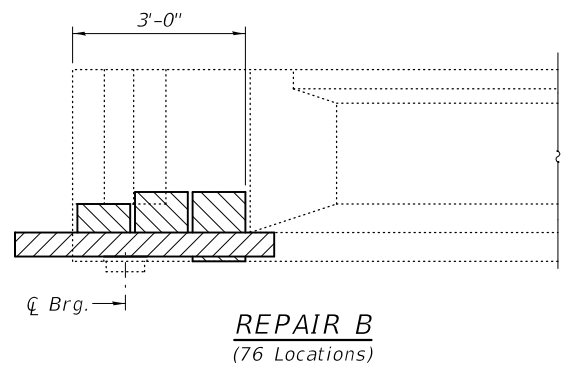
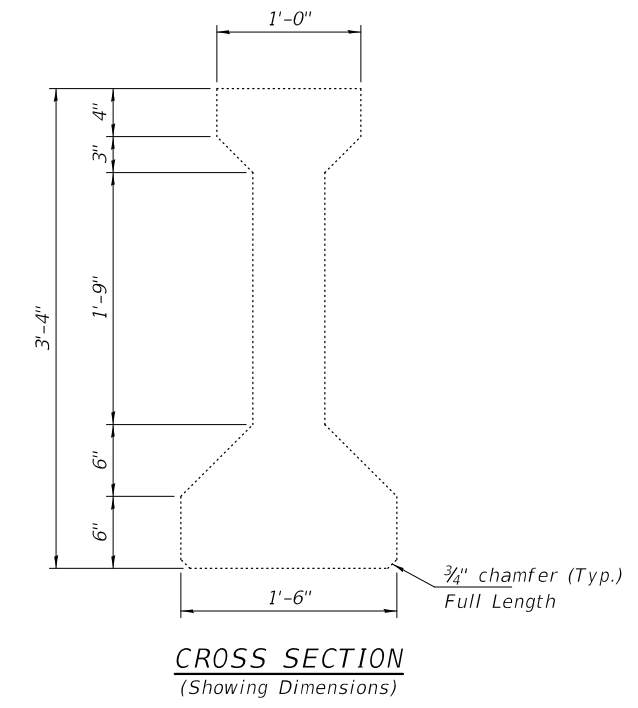
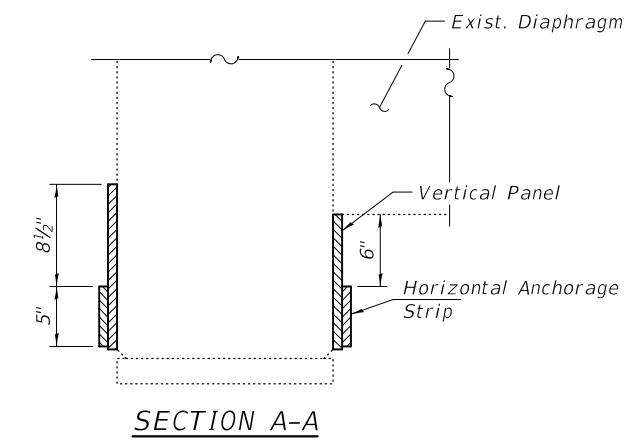
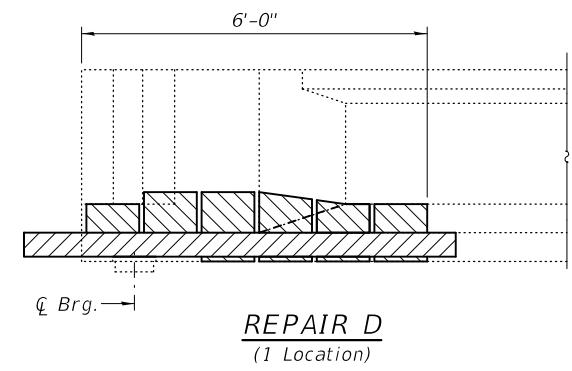
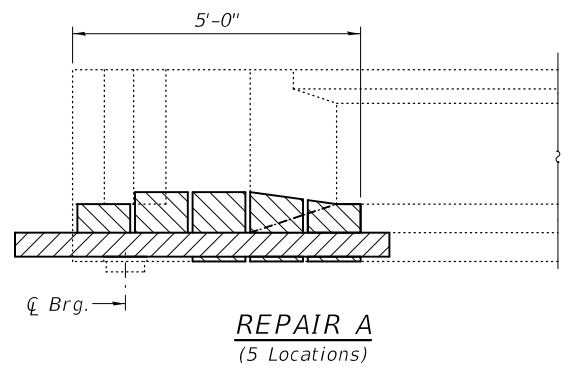
EXAMINED
 PASSED
 ENGINEER OF STRUCTURAL SERVICES
 ENGINEER OF BRIDGES AND STRUCTURES

DATE - NOVEMBER 27, 2019
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

GENERAL PLAN
 FAI 74 OVER U.P. RAILROAD
 SN 010-0031 (EB) & 0032 (WB)
 SHEET NO. 15 OF 28 SHEETS

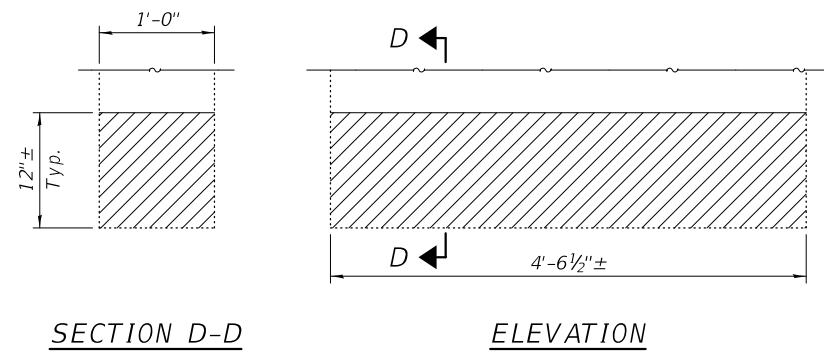
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-6, 7) BDR	CHAMPAIGN	99	22
ILLINOIS FED. AID PROJECT			CONTRACT NO. 70B92	



TYPICAL DAMAGE BETWEEN BEARINGS

TYPICAL DAMAGE AT EXPOSED STRAND

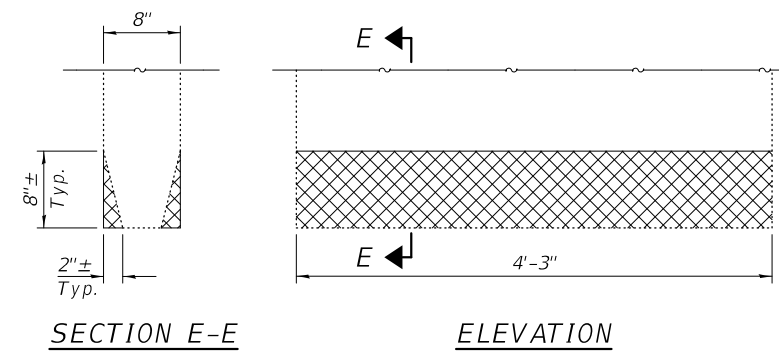
DESIGNED - JSB	EXAMINED - <i>Timothy A. Doolittle</i> ENGINEER OF STRUCTURAL SERVICES	DATE - NOVEMBER 27, 2019	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REPAIR DETAILS SN 010-0031 (EB) & 0032 (WB)		F.A.I. RTE. 74	SECTION (10-6, 7) BDR	COUNTY CHAMPAIGN	TOTAL SHEETS 99	SHEET NO. 23	
CHECKED - SMR	PASSED - <i>Carl R. Roper</i> ENGINEER OF BRIDGES AND STRUCTURES	REVISED -		SHEET NO. 16 OF 28 SHEETS		CONTRACT NO. 70B92		ILLINOIS FED. AID PROJECT			
DRAWN - daburdell		REVISED -									
CHECKED - SMR JSB											



SECTION D-D

ELEVATION



REPAIR H - END DIAPHRAGMS
(24 Locations)



SECTION E-E



ELEVATION

REPAIR I - INTERIOR DIAPHRAGMS
(4 Locations)

-  Structural Repair of Concrete
(Depth ≤ 5")
-  Structural Repair of Concrete
(Depth > 5")

BILL OF MATERIAL

Item	Unit	Total
Structural Repair of Concrete (Depth ≤ 5")	Sq. Ft.	23
Structural Repair of Concrete (Depth > 5")	Sq. Ft.	123

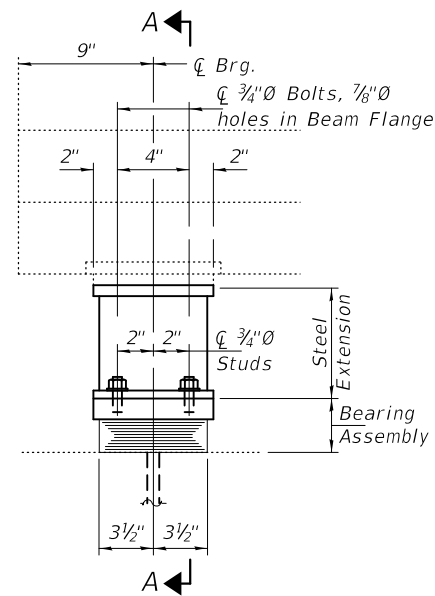
DESIGNED - JSB	EXAMINED	DATE - NOVEMBER 27, 2019
CHECKED - SMR	 ENGINEER OF STRUCTURAL SERVICES	
DRAWN - daburdell	PASSED	REVISED -
CHECKED - SMR JSB	 ENGINEER OF BRIDGES AND STRUCTURES	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

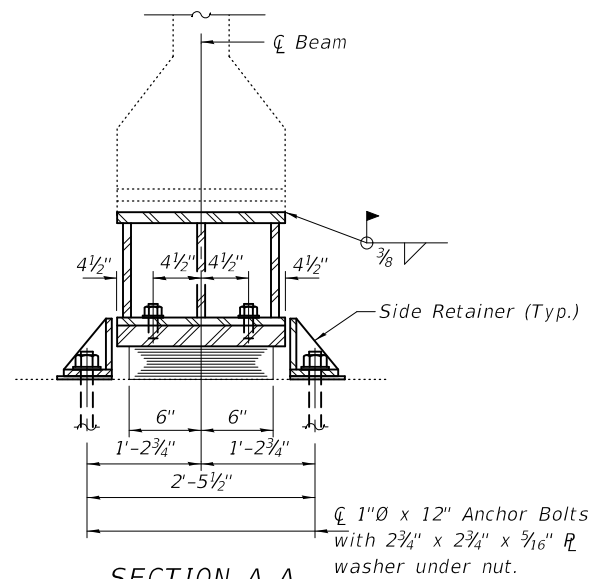
REPAIR DETAILS
SN 010-0031 (EB) & 0032 (WB)

SHEET NO. 17 OF 28 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-6, 7) BDR	CHAMPAIGN	99	24
			CONTRACT NO. 70B92	
		ILLINOIS FED. AID PROJECT		



ELEVATION AT ABUTMENT

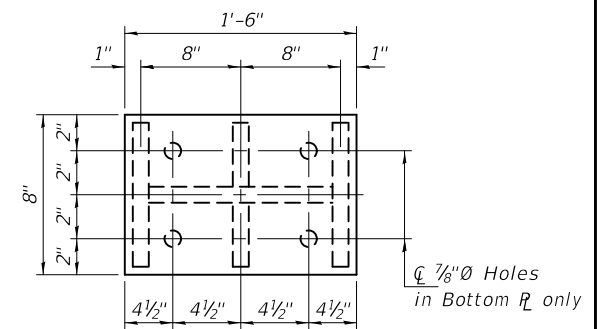


SECTION A-A

BEAM REACTIONS

R _l	(K)	28.9
R _r	(K)	36.9
Imp.	(K)	10.3
R (Total)	(K)	76.1

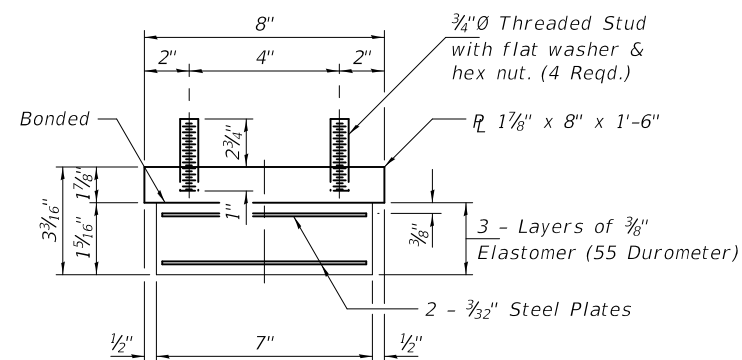
Notes:
 New steel extensions, shim plates and connection bolts are included with Furnishing and Erecting Structural Steel.
 Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions. Adjustment must account for deck heave due to pack rust (if present).
 Min. jack capacity = 53 Tons.
 Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (F_y=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.
 Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.
 Cost of Side retainers and Stainless Steel plates shall be included in the cost of Elastomeric Bearing Assembly, Type I.
 The steel components for the Elastomeric Bearing Assembly shall be hot-dip galvanized. See Special Provision for "Hot Dip Galvanizing for Structural Steel".



PLAN TOP AND BOTTOM PLATE

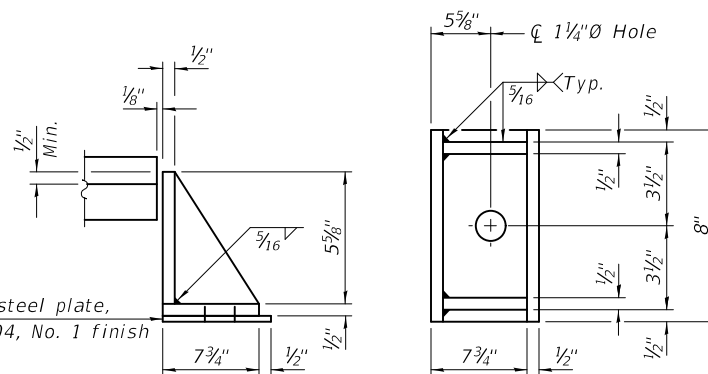
TYPE I ELASTOMERIC EXP. BRG.

(Typ. Pier 1 & East Brg's. Pier 2)
 (Beams 2 - 15)



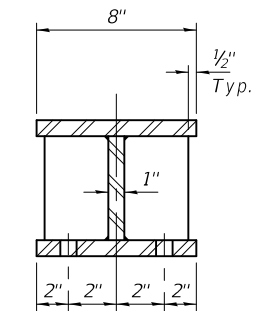
BEARING ASSEMBLY

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

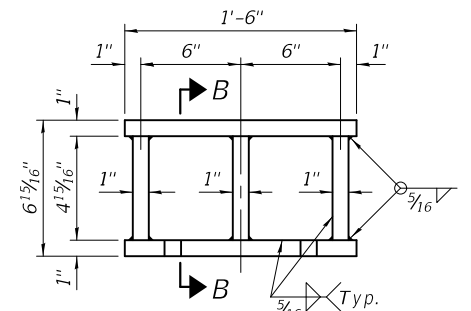


SIDE RETAINER

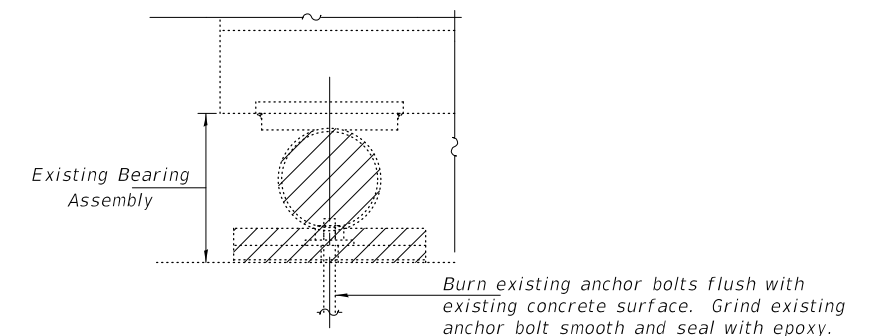
Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.



SECTION B-B



STEEL EXTENSION DETAIL



EXISTING BEARING REMOVAL DETAIL

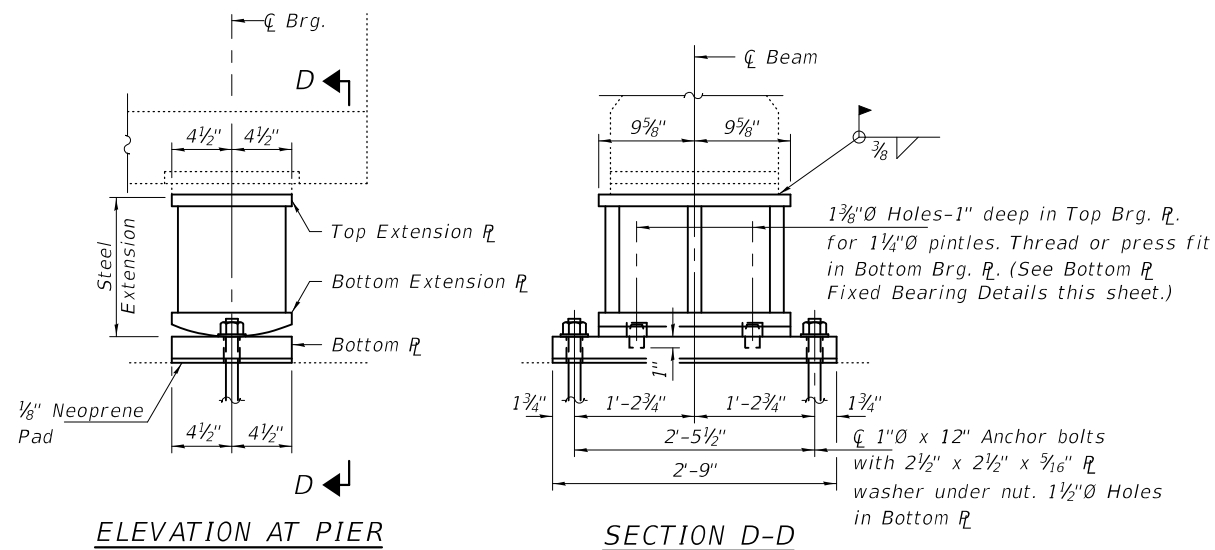
Cost included with Jack and Remove Existing Bearings.

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly, Type I	Each	42
Jack and Remove Existing Bearings	Each	39
Furnishing and Erecting Structural Steel	Pound	5580
Anchor Bolts, 1"Ø	Each	84
* Temporary Shoring and Cribbing	Each	3

* For location see sheet 28 thru 33 of 99.

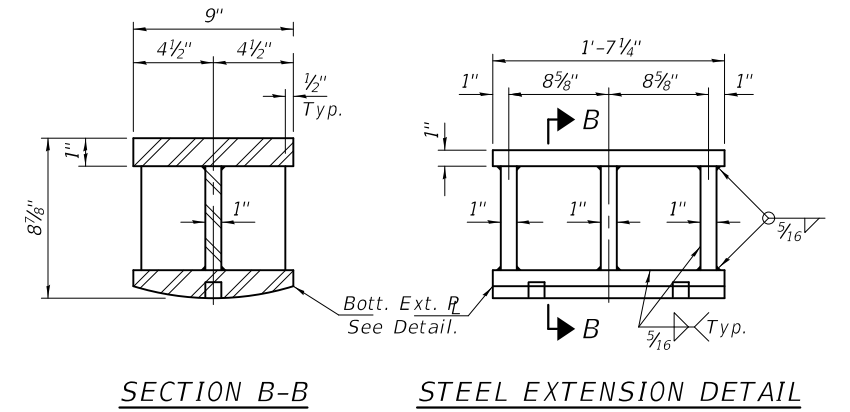
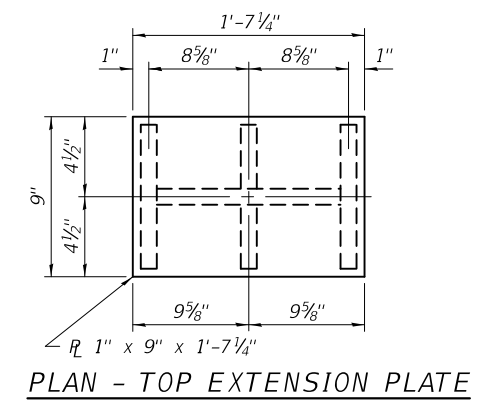
TYI/REPS 5-17-2018



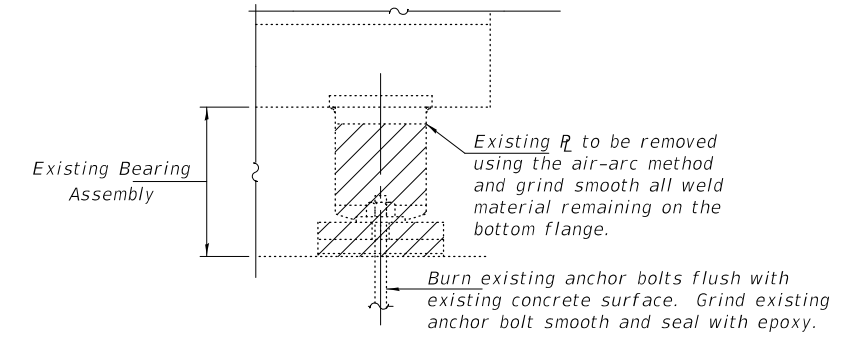
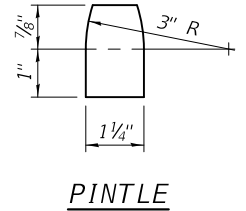
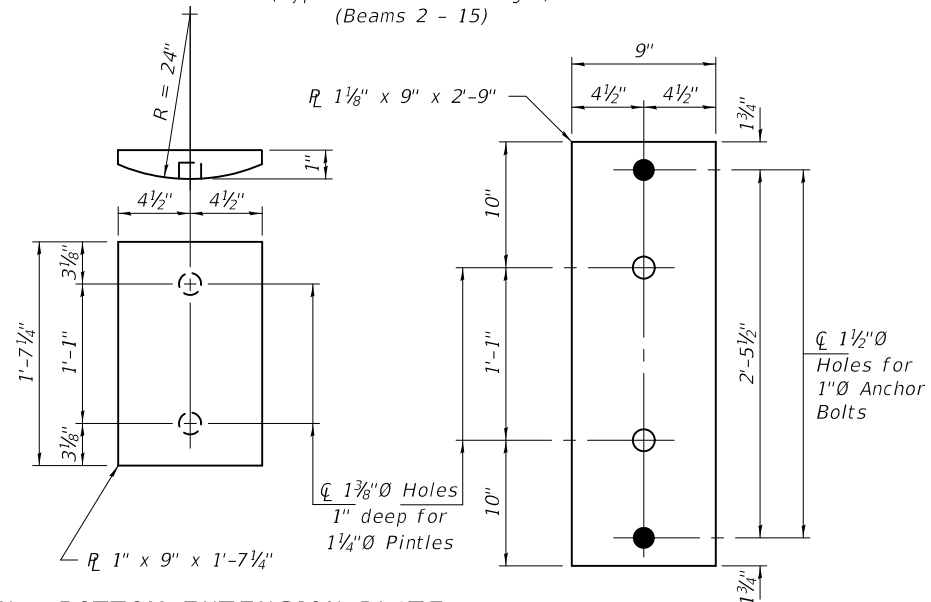
BEAM REACTIONS

R _l	(K)	28.9
R _r	(K)	36.9
Imp.	(K)	10.3
R (Total)	(K)	76.1

Notes:
 New fixed bearings, steel extensions, shim plates and connection bolts are included with Furnishing and Erecting Structural Steel.
 Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions. Adjustment must account for deck heave due to pack rust (if present).
 Min. jack capacity = 53 Tons.
 Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (F_y=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.
 Anchor bolts at fixed bearings may be either cast in place or installed in holes drilled after the supported member is in place.
 Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.
 The steel components for the Bearing Assembly shall be hot-dip galvanized. See Special Provision for "Hot Dip Galvanizing for Structural Steel".



FIXED BEARINGS
 (Typ. Pier 2 at West Brg's.)
 (Beams 2 - 15)



EXISTING BEARING REMOVAL DETAIL
 Cost included with Jack and Remove Existing Bearings.

BILL OF MATERIAL

Item	Unit	Total
Jack and Remove Existing Bearings	Each	12
Furnishing and Erecting Structural Steel	Pound	3860
Anchor Bolts, 1" Ø	Each	28
* Temporary Shoring and Cribbing	Each	2

* For location see sheet 28 thru 33 of 99.

DESIGNED - JSB	EXAMINED - <i>Timothy A. Daulton</i>	DATE - NOVEMBER 27, 2019
CHECKED - SMR	ENGINEER OF STRUCTURAL SERVICES	
DRAWN - daburdell	PASSED - <i>Carl Berger</i>	REVISED -
CHECKED - SMR JSB	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -

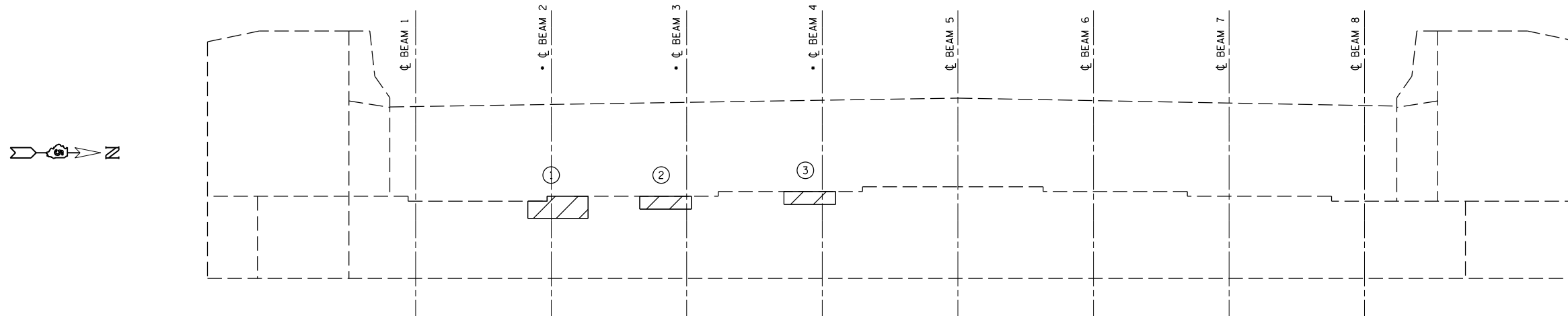
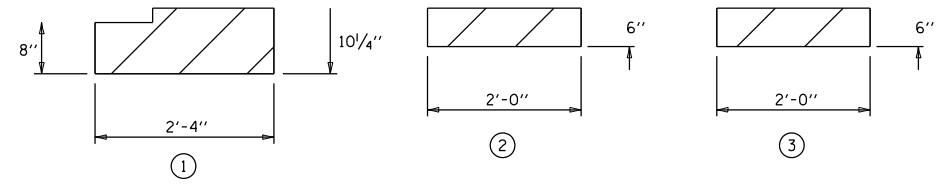
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FIXED BEARING REPLACEMENT DETAILS - PIER 2
SN 010-0031 (EB) & 0032 (WB)

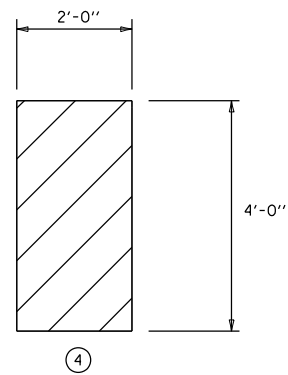
SHEET NO. 19 OF 28 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-6, 7) BDR	CHAMPAIGN	99	26
CONTRACT NO. 70B92				
ILLINOIS FED. AID PROJECT				

• LOCATION OF TEMPORARY SHORING AND CRIBBING

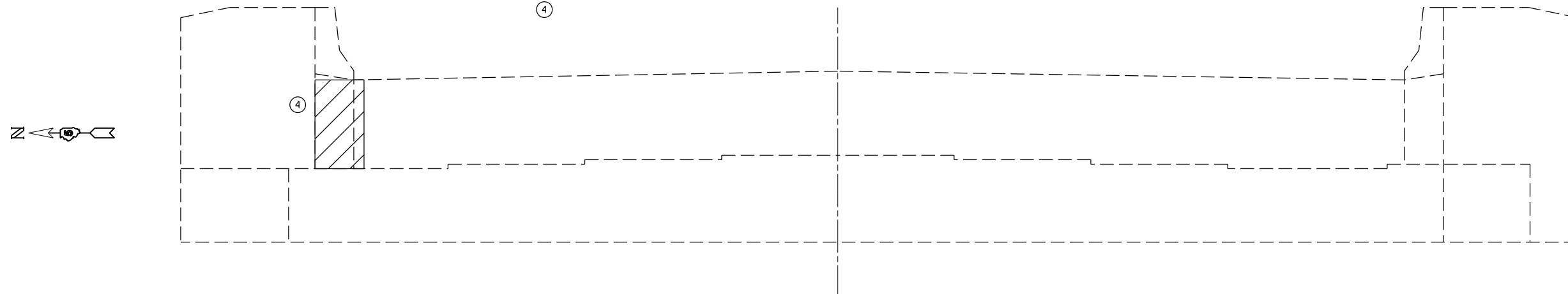


ELEVATION VIEW
WEST ABUTMENT (LOOKING WEST)



Reaction Table

R_{DL}	(K)	28.9
R_{LL}	(K)	36.9
IMP	(K)	10.3
R (Total)	(K)	76.1



ELEVATION VIEW
EAST ABUTMENT (LOOKING EAST)

BILL OF MATERIALS

ITEM	UNIT	TOTAL
STRUCTURAL REPAIR OF CONCRETE $\frac{1}{2}$ "	SQ FT	11.9
TEMPORARY SHORING AND CRIBBING	EACH	3.0

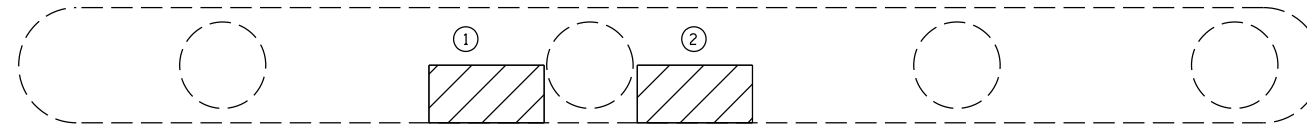
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pw:\planroom.dot\illinois.gov\PWIDOT\Documents\IDOT Offices\District 5\Projects\05708B\Drawings\Structural\MSD5708B92-sht-010-003	DRAWN BY =	CHECKED -	REVISED -
	PLOT SCALE = 40.0000' / in.	DATE - 030518	REVISED -
	PLOT DATE = 11/21/2019		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

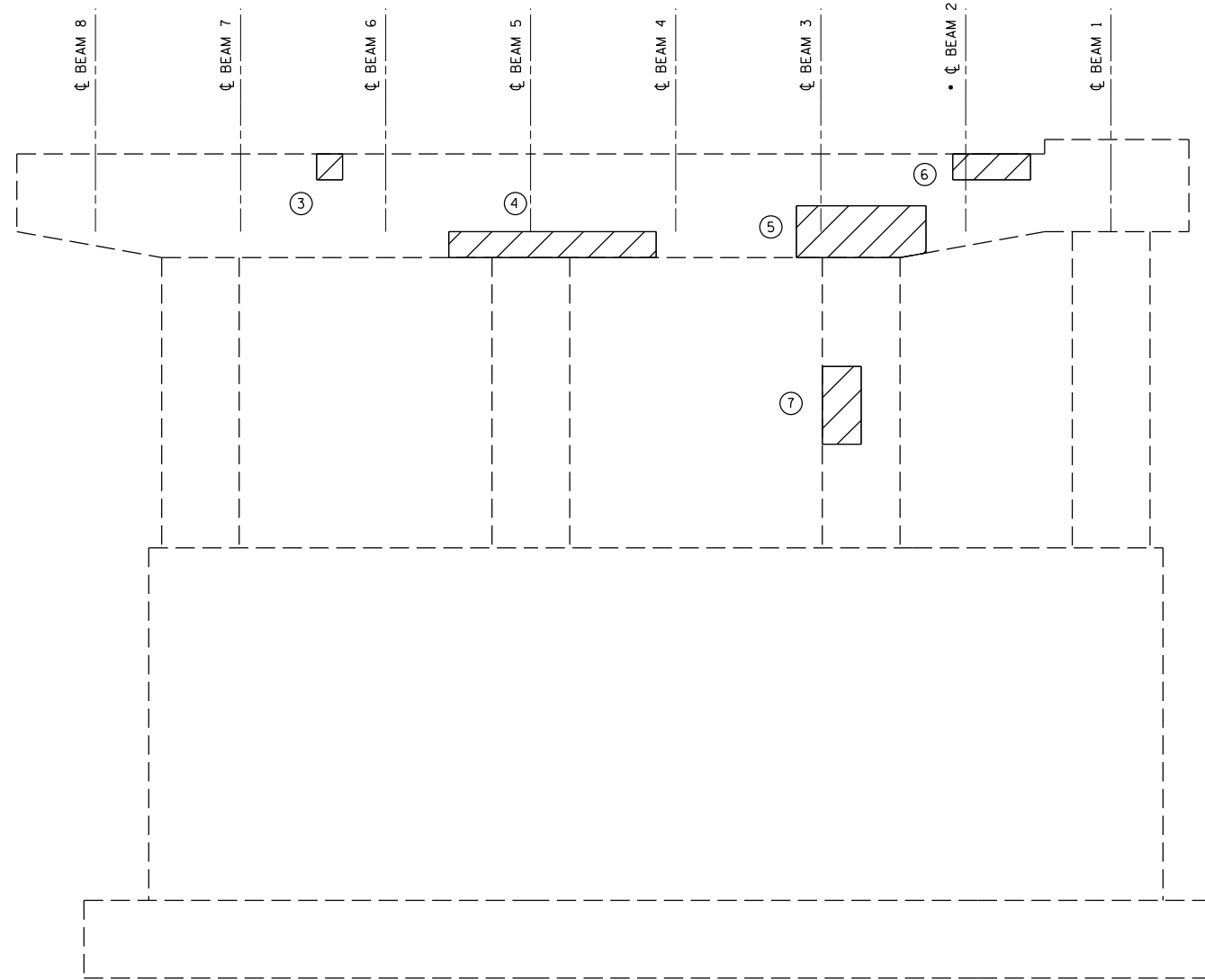
DETAIL OF STRUCTURAL CONCRETE REPAIR AT ABUTMENTS
S.N. 010-0031

SCALE: NONE SHEET NO. 20 OF 28 SHEETS STA. TO STA.

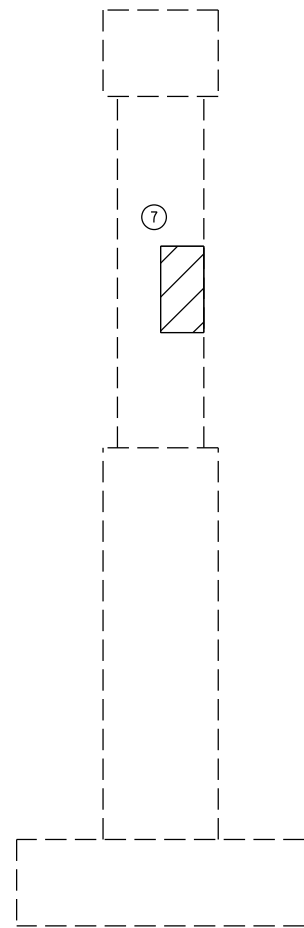
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-6.7)BDR	CHAMPAIGN	99	27
				CONTRACT NO. 70B92
ILLINOIS FED. AID PROJECT				



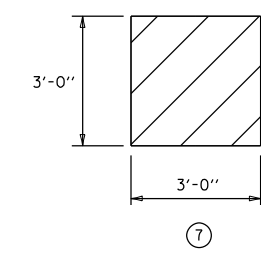
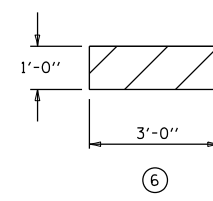
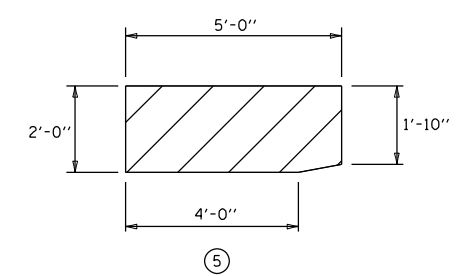
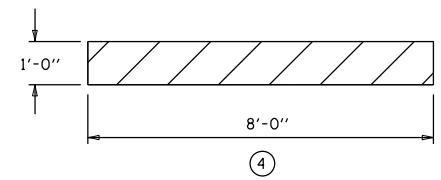
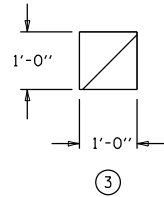
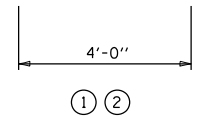
PLAN VIEW
PIER 1 WEST FACE (BOTTOM OF PIER) • LOCATION OF TEMPORARY SHORING AND CRIBBING



ELEVATION VIEW
PIER 1 WEST FACE (LOOKING EAST)



END ELEVATION VIEW
PIER 1 WEST FACE (LOOKING SOUTH)



BILL OF MATERIALS

ITEM	UNIT	TOTAL
STRUCTURAL REPAIR OF CONCRETE \leq 5"	SQ FT	46.9

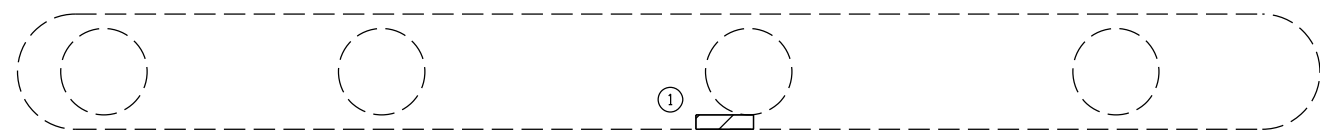
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	PLOT SCALE = 40.0000' / in.	DATE - 030518	REVISED -
	PLOT DATE = 11/21/2019		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAIL OF STRUCTURAL CONCRETE REPAIR AT PIER 1
S.N. 010-0031

SCALE: NONE SHEET NO. 21 OF 28 SHEETS STA. TO STA.

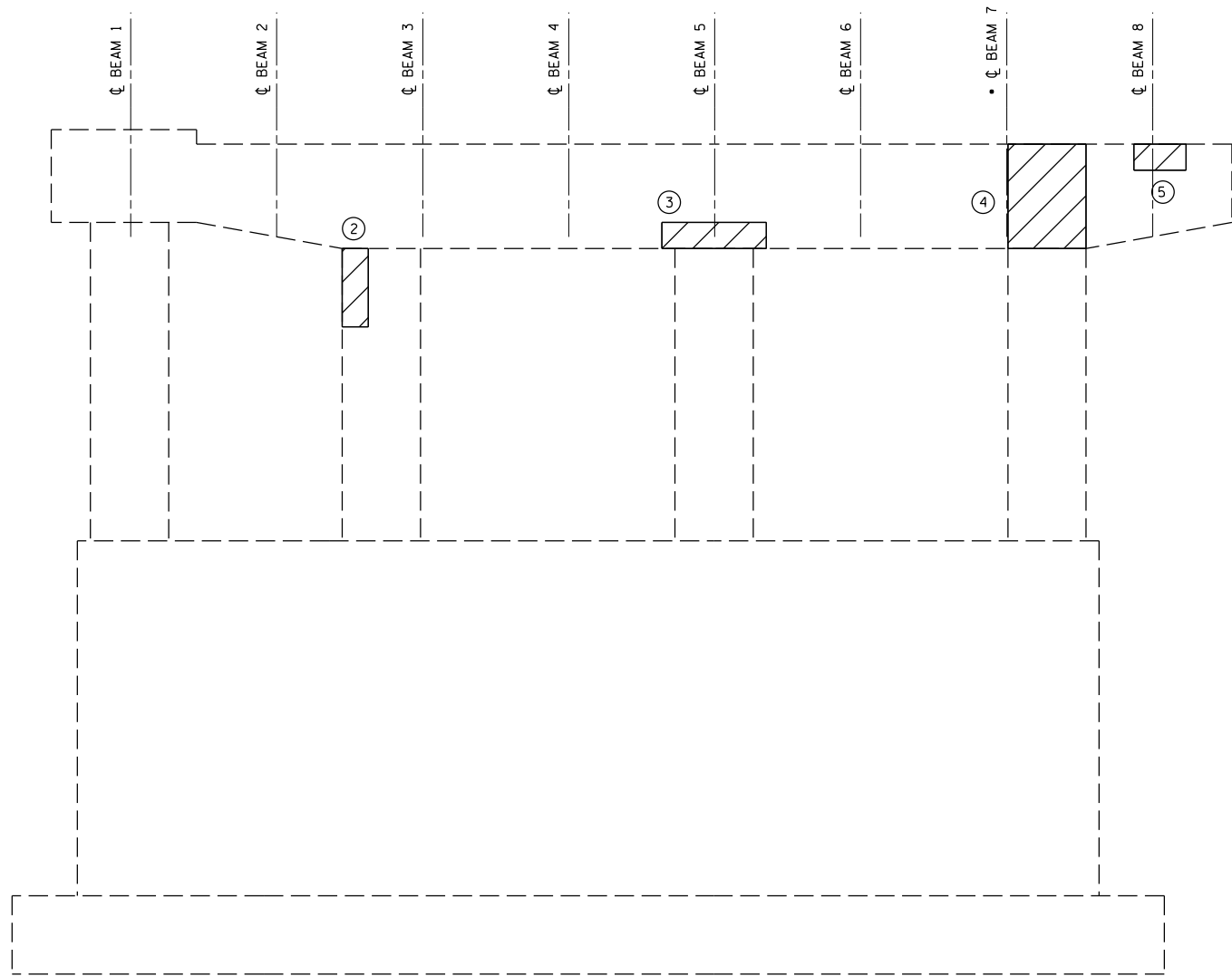
F.A.I. RTE. 74	SECTION (10-6.7)BDR	COUNTY CHAMPAIGN	TOTAL SHEETS 99	SHEET NO. 28
ILLINOIS FED. AID PROJECT			CONTRACT NO. 70B92	



PLAN VIEW

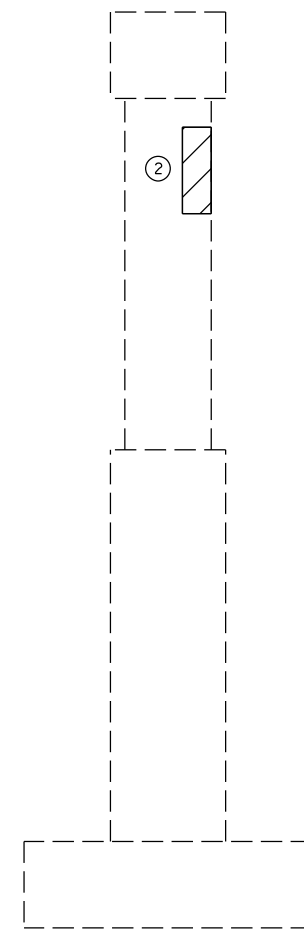
PIER 1 EAST FACE (BOTTOM OF PIER)

• LOCATION OF TEMPORARY SHORING AND CRIBBING



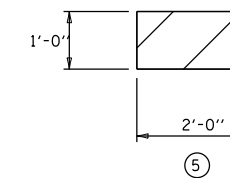
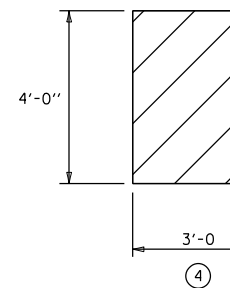
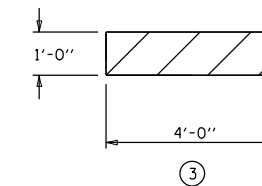
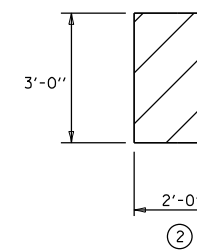
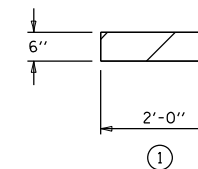
ELEVATION VIEW

PIER 1 EAST FACE (LOOKING WEST)



END ELEVATION VIEW

PIER 1 (LOOKING NORTH)



BILL OF MATERIALS

ITEM	UNIT	TOTAL
STRUCTURAL REPAIR OF CONCRETE \leq 5"	SQ FT	25.0

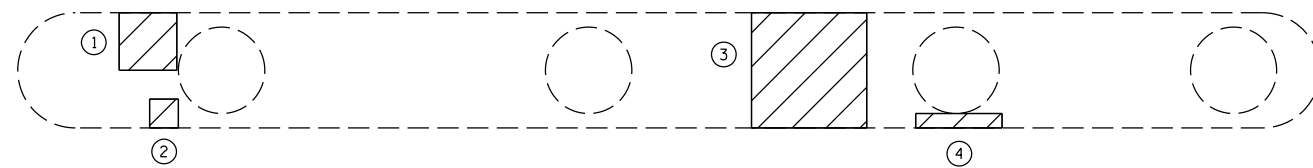
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	PLOT SCALE = 40.0000' / in.	DATE - 030518	REVISED -
	PLOT DATE = 11/21/2019		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETAIL OF STRUCTURAL CONCRETE REPAIR AT PIER 1
S.N. 010-0031**

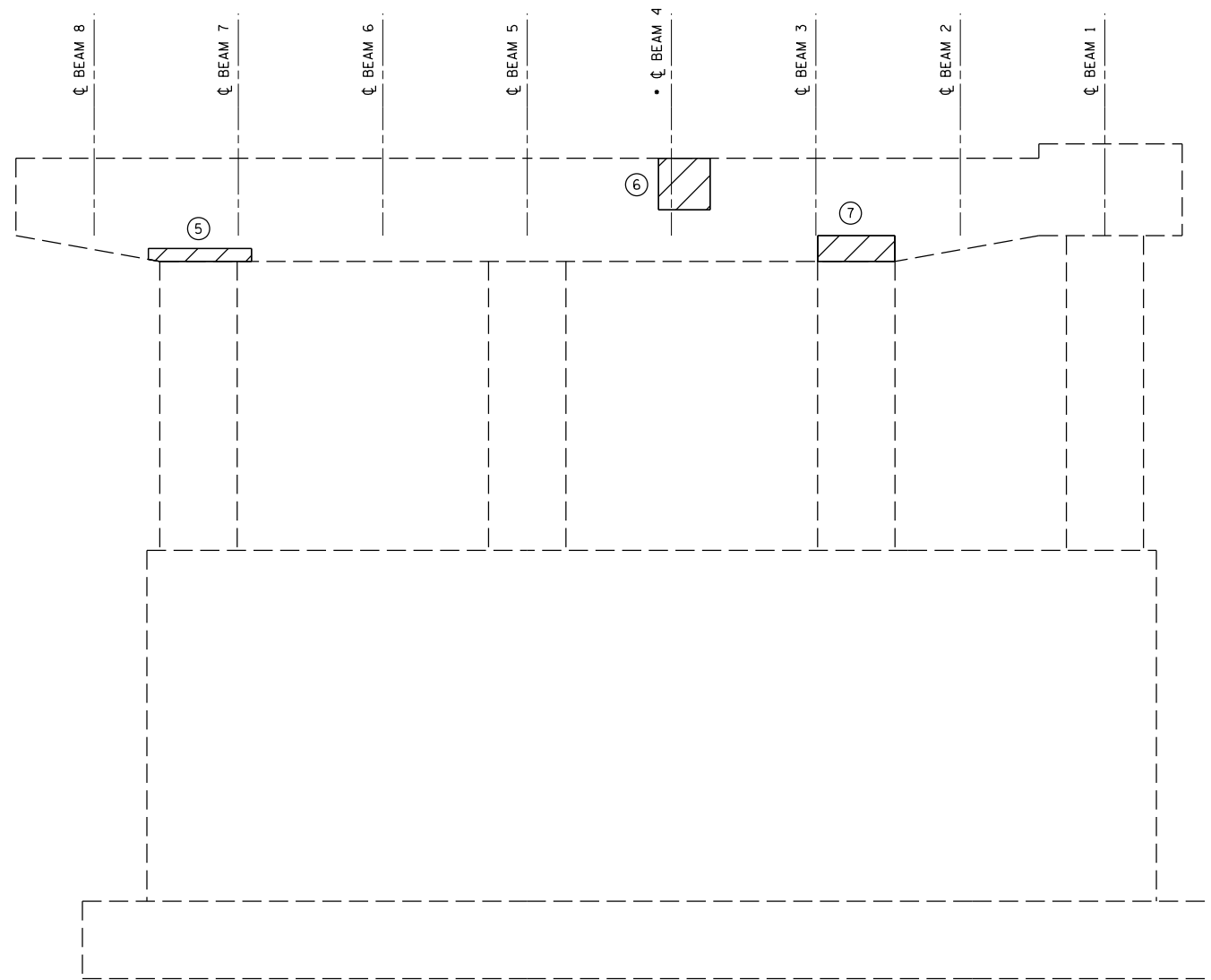
SCALE: NONE SHEET NO. 22 OF 28 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-6.7)BDR	CHAMPAIGN	99	29
CONTRACT NO. 70B92			ILLINOIS FED. AID PROJECT	

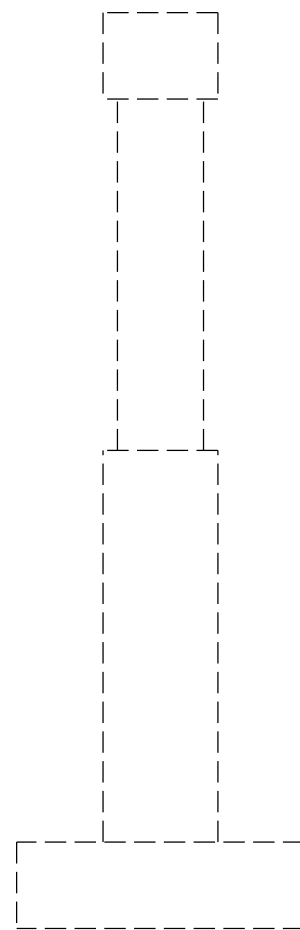


PLAN VIEW
PIER 2 WEST FACE (BOTTOM OF PIER)

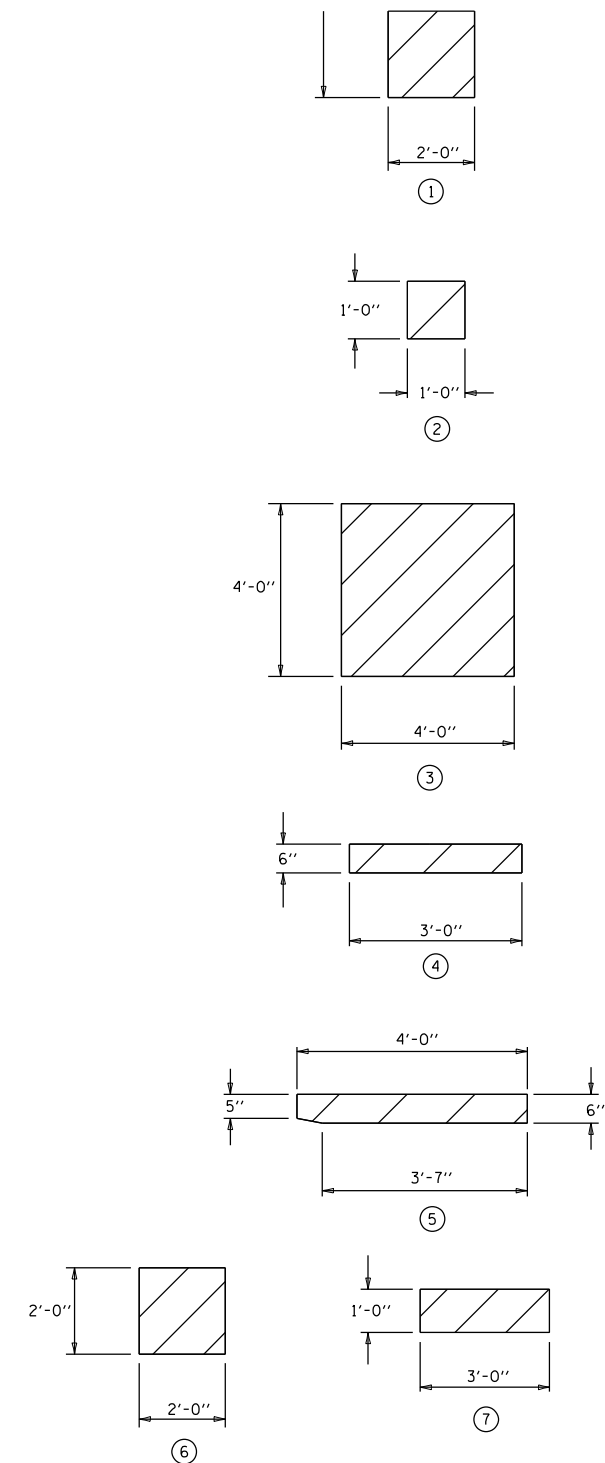
• LOCATION OF TEMPORARY SHORING AND CRIBBING



ELEVATION VIEW
PIER 2 WEST FACE (LOOKING EAST)



END ELEVATION VIEW
PIER 2 (LOOKING NORTH)



BILL OF MATERIALS

ITEM	UNIT	TOTAL
STRUCTURAL REPAIR OF CONCRETE \leq 5"	SO FT	31.5

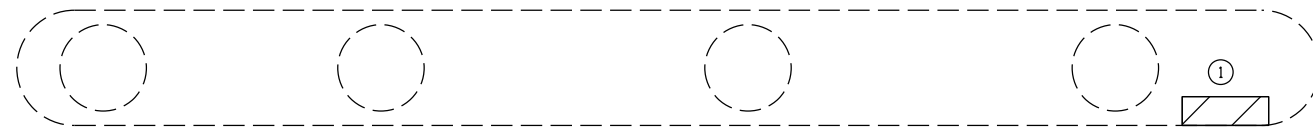
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	PLOT DATE = 12/2/2019		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

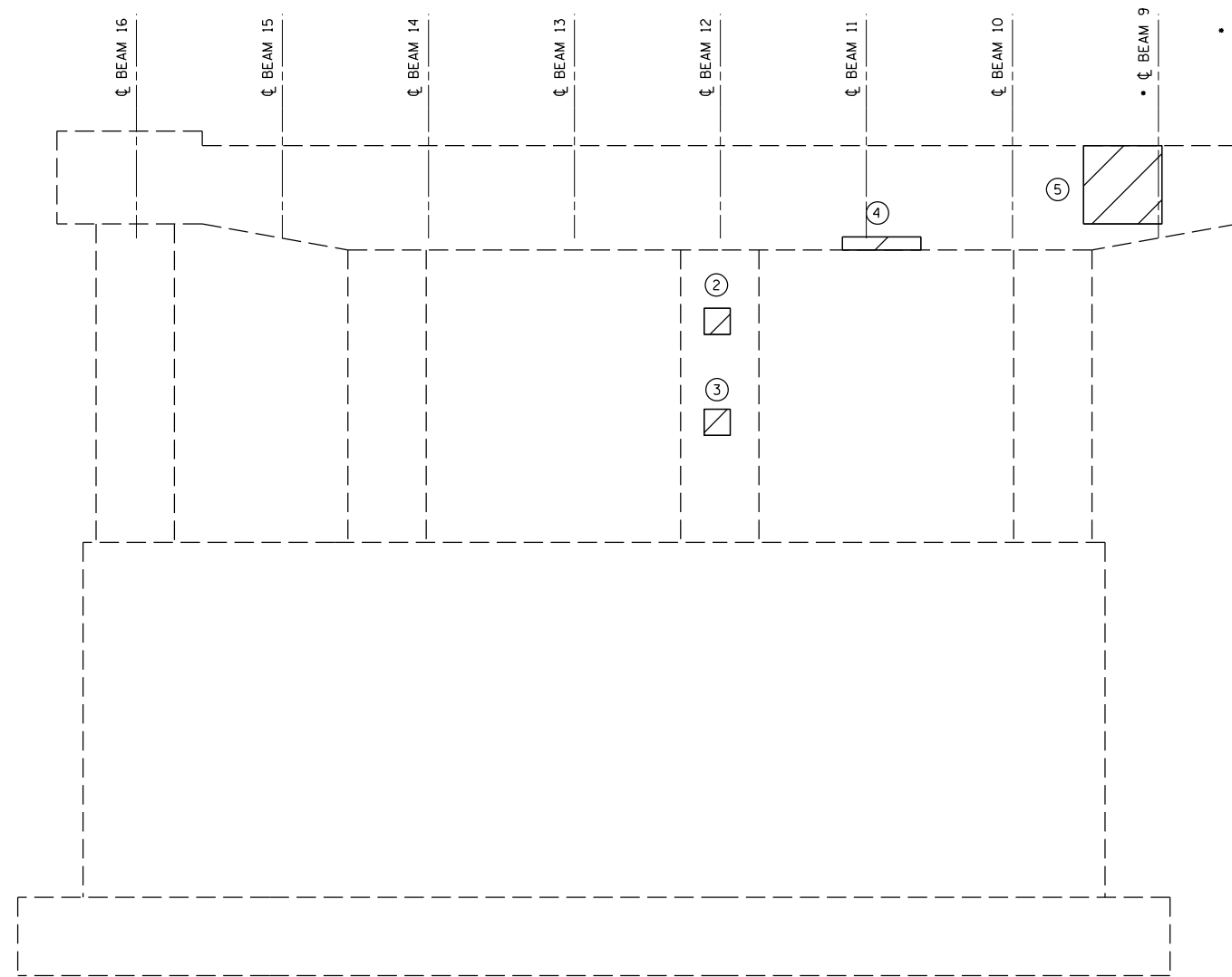
DETAIL OF STRUCTURAL CONCRETE REPAIR AT PIER 2
S.N. 010-0031

SCALE: NONE SHEET NO. 23 OF 28 SHEETS STA. TO STA.

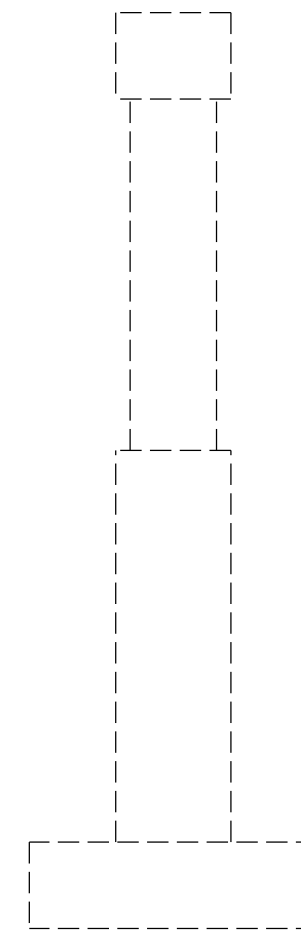
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-6.7)BDR	CHAMPAIGN	99	30
CONTRACT NO. 70B92			ILLINOIS FED. AID PROJECT	



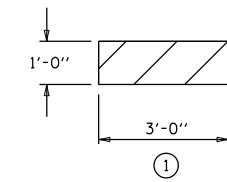
PLAN VIEW
PIER 1 WEST FACE (BOTTOM OF PIER)



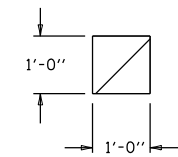
ELEVATION VIEW
PIER 1 WEST FACE (LOOKING EAST)



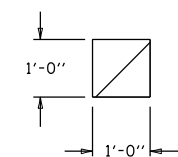
END ELEVATION VIEW
PIER 1 WEST FACE (LOOKING SOUTH)



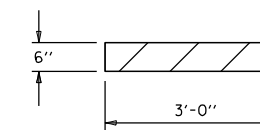
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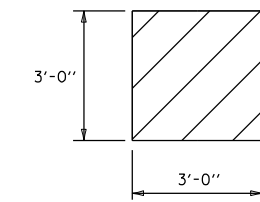
②



③



④



⑤

BILL OF MATERIALS

ITEM	UNIT	TOTAL
STRUCTURAL REPAIR OF CONCRETE \leq 5"	SQ FT	15.5

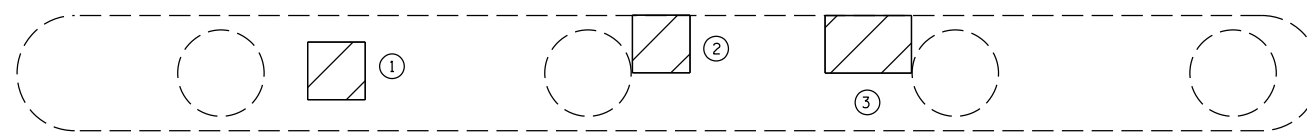
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	PLOT DATE = 11/21/2019		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

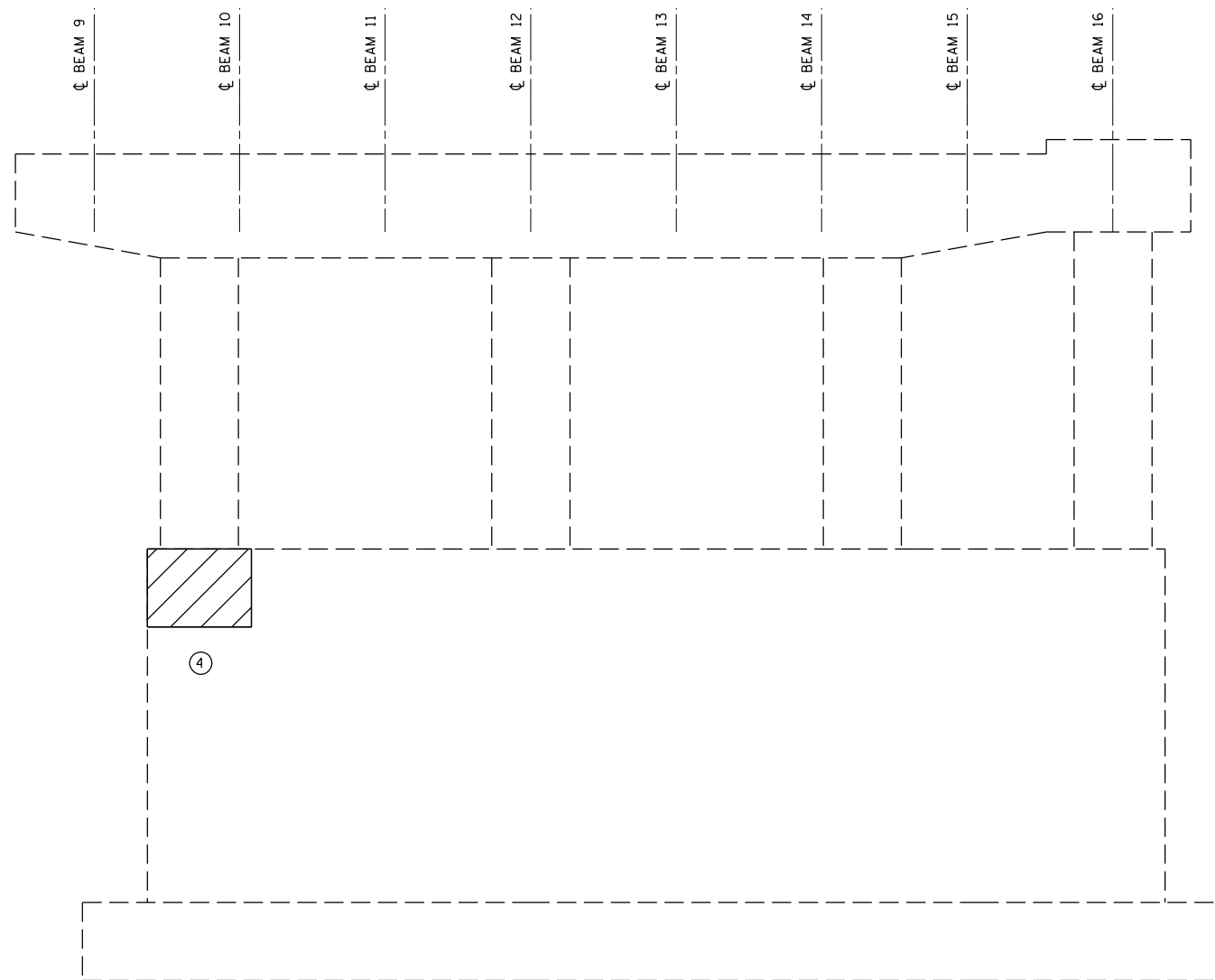
DETAIL OF STRUCTURAL CONCRETE REPAIR AT PIER 1
S.N. 010-0032

SCALE: NONE SHEET NO. 24 OF 28 SHEETS STA. TO STA.

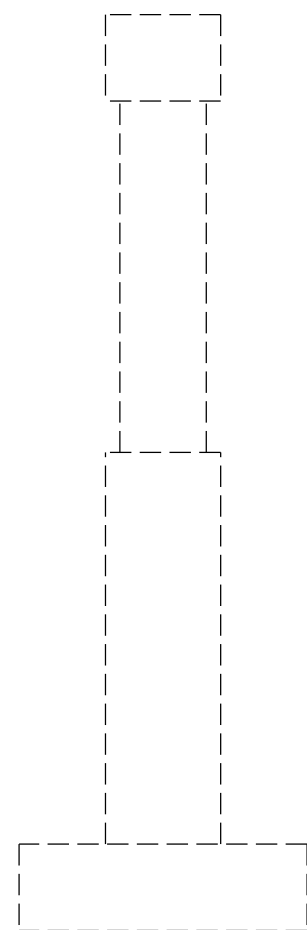
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-6.7)BDR	CHAMPAIGN	99	31
CONTRACT NO. 70B92			ILLINOIS FED. AID PROJECT	



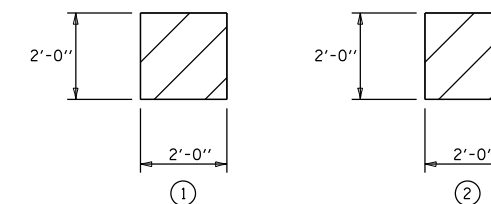
PLAN VIEW
PIER 1 EAST FACE (BOTTOM OF PIER)



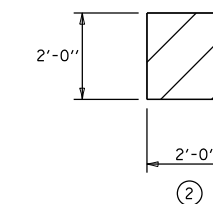
ELEVATION VIEW
PIER 1 EAST FACE (LOOKING WEST)



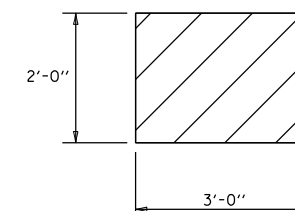
END ELEVATION VIEW
PIER 1 (LOOKING NORTH)



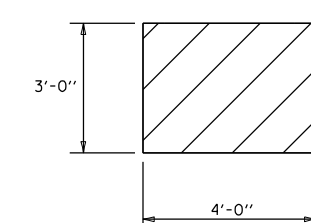
①



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④

BILL OF MATERIALS

ITEM	UNIT	TOTAL
STRUCTURAL REPAIR OF CONCRETE $\frac{1}{2}$ 5"	SQ FT	26.0

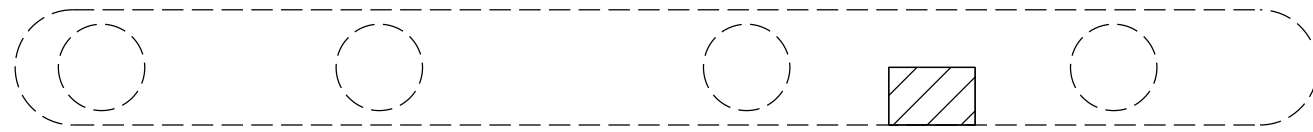
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	PLOT DATE = 5/1/2019		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

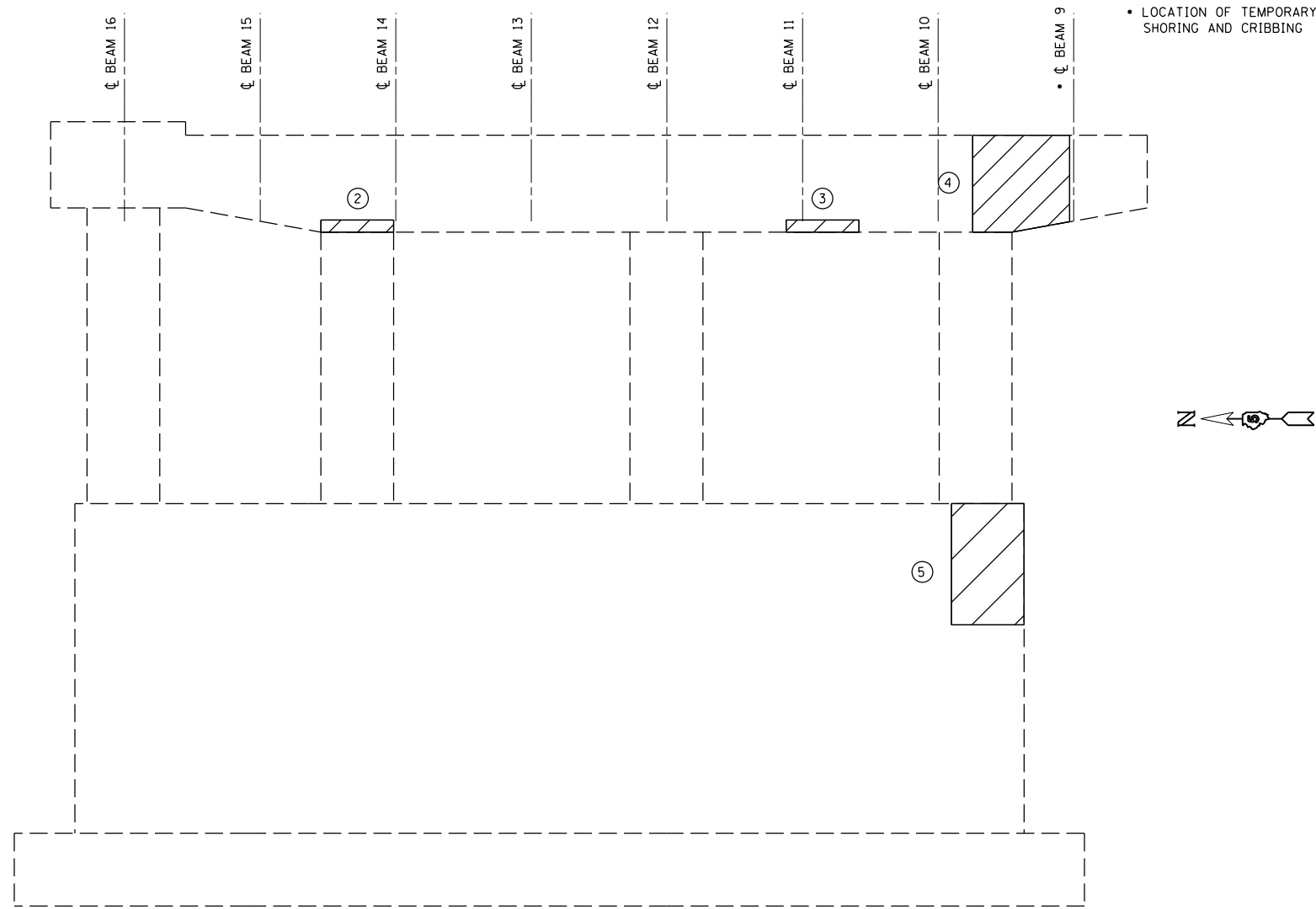
DETAIL OF STRUCTURAL CONCRETE REPAIR AT PIER 1
S.N. 010-0032

SCALE: NONE SHEET NO. 25 OF 28 SHEETS STA. TO STA.

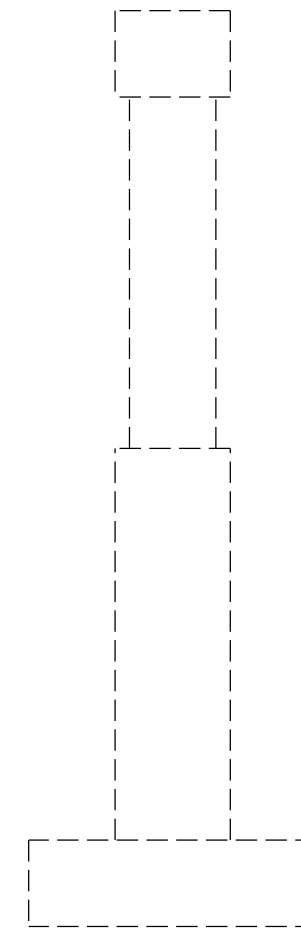
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-6.7)BDR	CHAMPAIGN	99	32
ILLINOIS FED. AID PROJECT			CONTRACT NO. 70B92	



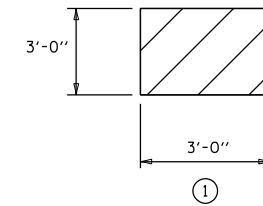
PLAN VIEW
PIER 2 WEST FACE (BOTTOM OF PIER)



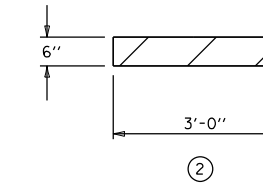
ELEVATION VIEW
PIER 2 WEST FACE (LOOKING EAST)



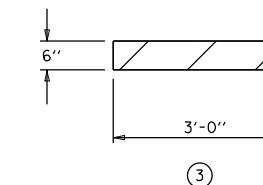
END ELEVATION VIEW
PIER 2 (LOOKING SOUTH)



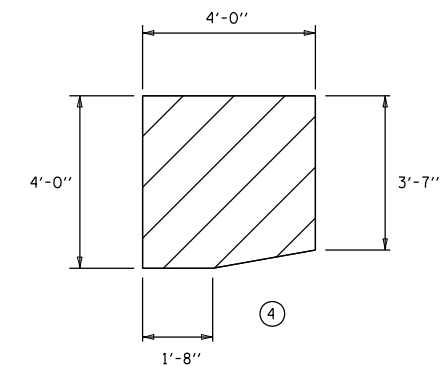
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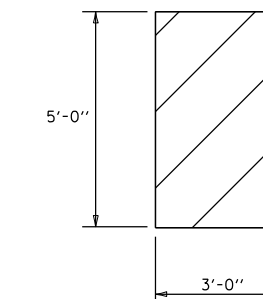
②



③



④



BILL OF MATERIALS

ITEM	UNIT	TOTAL
STRUCTURAL REPAIR OF CONCRETE ≤ 5"	SQ FT	39.5

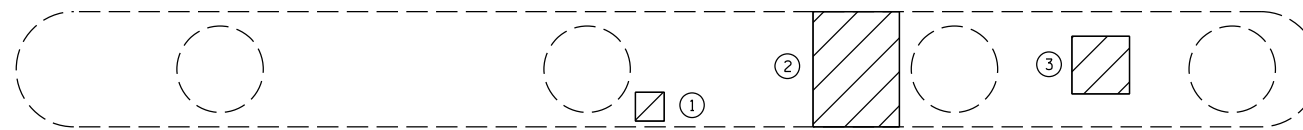
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	PLOT DATE = 11/21/2019		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

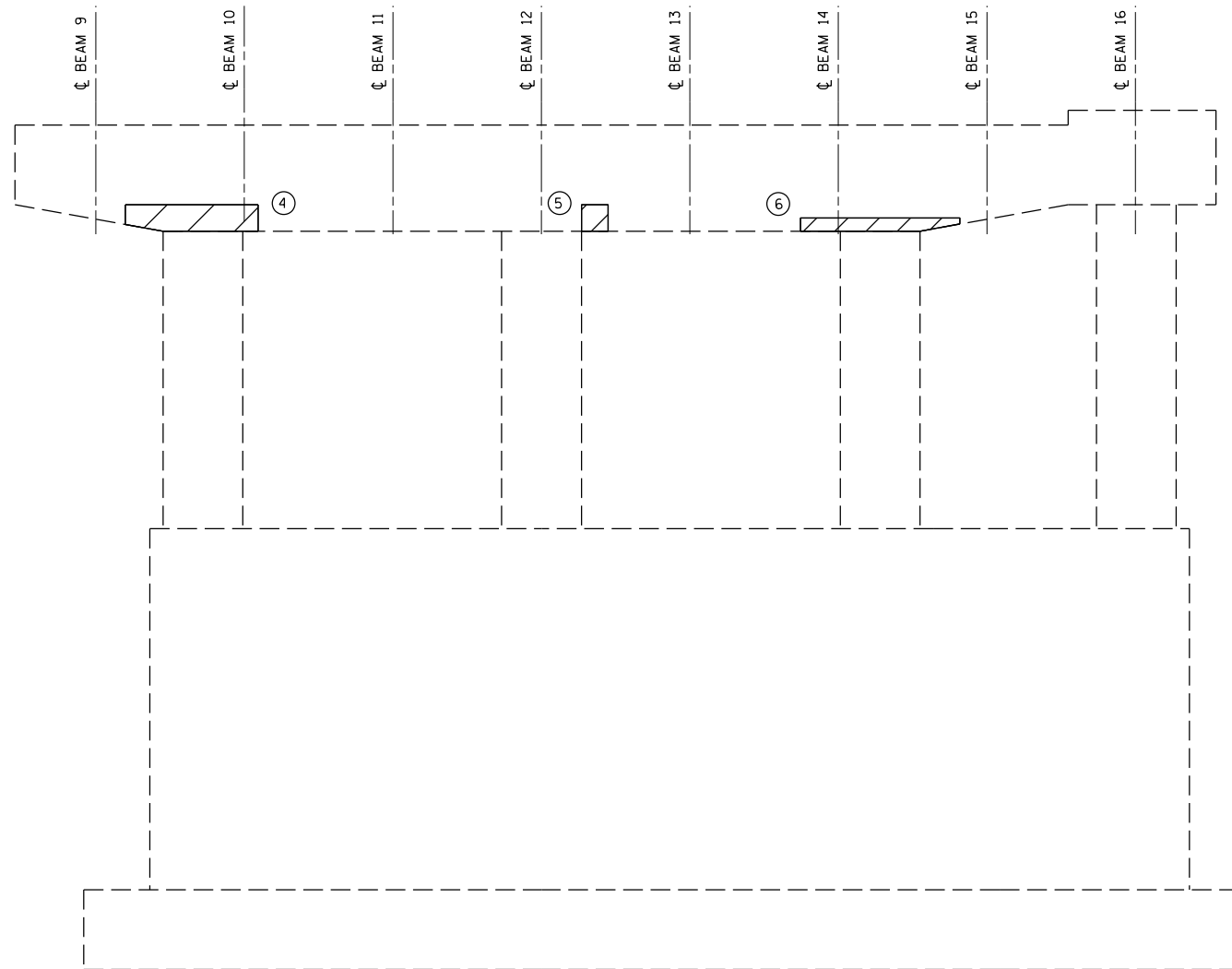
DETAIL OF STRUCTURAL CONCRETE REPAIR AT PIER 2
S.N. 010-0032

SCALE: NONE SHEET NO. 26 OF 28 SHEETS STA. TO STA.

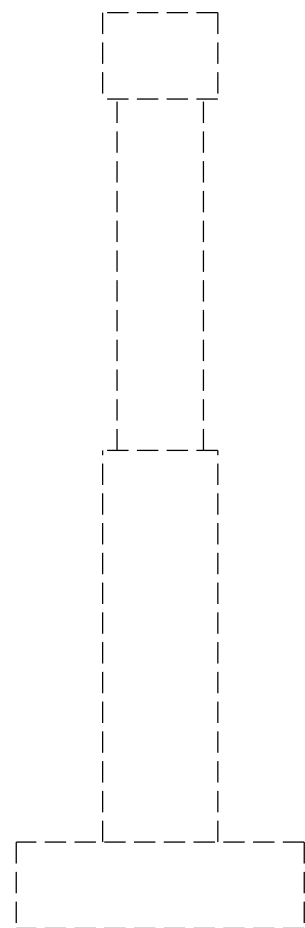
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-6.7)BDR	CHAMPAIGN	99	33
CONTRACT NO. 70B92			ILLINOIS FED. AID PROJECT	



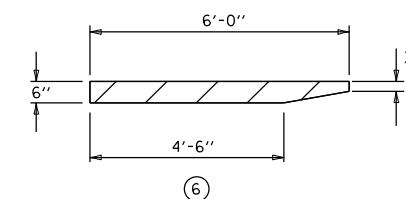
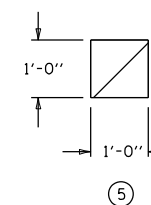
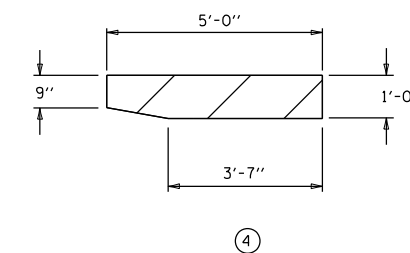
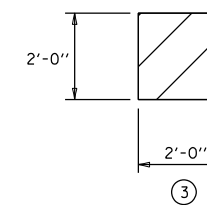
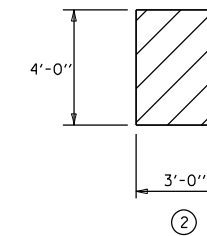
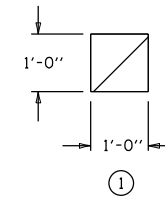
PLAN VIEW
PIER 2 EAST FACE (BOTTOM OF PIER)



ELEVATION VIEW
PIER 2 EAST FACE (LOOKING WEST)



END ELEVATION VIEW
PIER 2 (LOOKING NORTH)



BILL OF MATERIALS

ITEM	UNIT	TOTAL
STRUCTURAL REPAIR OF CONCRETE \leq 5"	SO FT	25.6

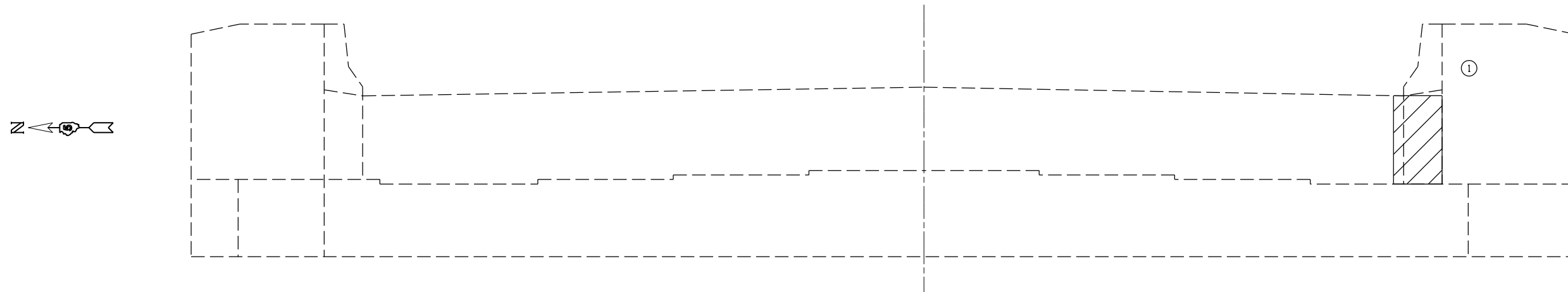
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	PLOT DATE = 5/1/2019		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

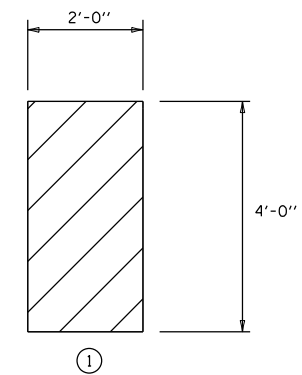
DETAIL OF STRUCTURAL CONCRETE REPAIR AT PIER 2
S.N. 010-0032

SCALE: NONE SHEET NO. 27 OF 28 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-6.7)BDR	CHAMPAIGN	99	34
ILLINOIS FED. AID PROJECT			CONTRACT NO. 70B92	



ELEVATION VIEW
EAST ABUTMENT (LOOKING EAST)



BILL OF MATERIALS

ITEM	UNIT	TOTAL
STRUCTURAL REPAIR OF CONCRETE \leq 5"	SO FT	8.0

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	PLOT SCALE = 40.0000' / in.	DATE - 030518	REVISED -
	PLOT DATE = 5/1/2019		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAIL OF STRUCTURAL CONCRETE REPAIR AT ABUTMENTS
S.N. 010-0032

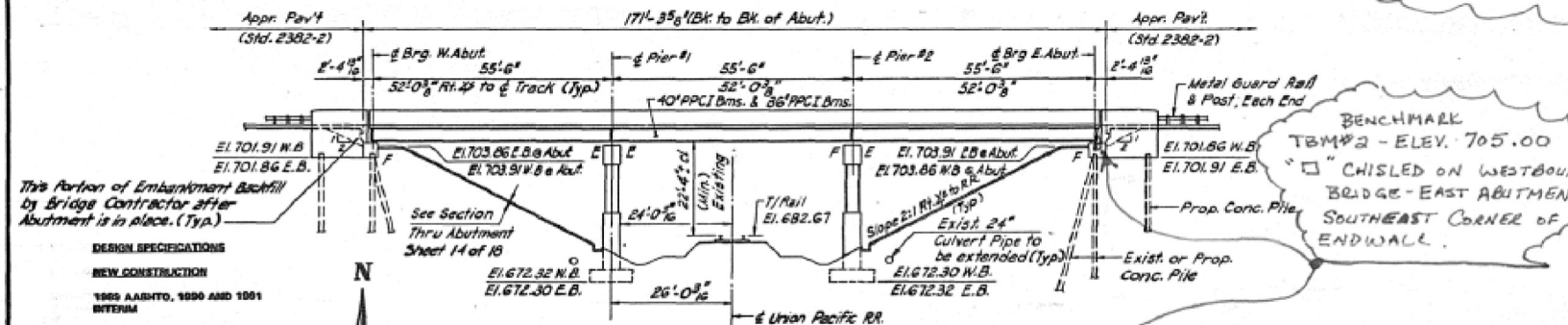
SCALE: NONE SHEET NO. 28 OF 28 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-6.7)BDR	CHAMPAIGN	99	35
ILLINOIS FED. AID PROJECT			CONTRACT NO. 70B92	

BM (MRT) - State of Illinois Disk at Bridge on I-74 over Railroad El. 708.85

AS-BUILT PLANS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 74	(10-7VB) BR	CHAMPAIGN	108	87



DESIGN SPECIFICATIONS

NEW CONSTRUCTION

1989 AASHTO, 1996 AND 1991 INTERIM

LOADING HS 20-44

NO FUTURE WEARING SURFACE

DESIGN STRESSES - FIELD LIMITS

$f_c = 3,500$ psi

$f_y = 60,000$ psi (Rein.)

$f_y = 50,000$ psi (A2323 Gr. 60)

PRECAST PRESTRESSED UNITS

$f_c = 6,000$ psi

$f_s = 4,200$ psi

Low Relaxation Strands

$f_a = 270,000$ psi (1728 Strands)

$f_y = 228,000$ psi

$f_s = 201,900$ psi

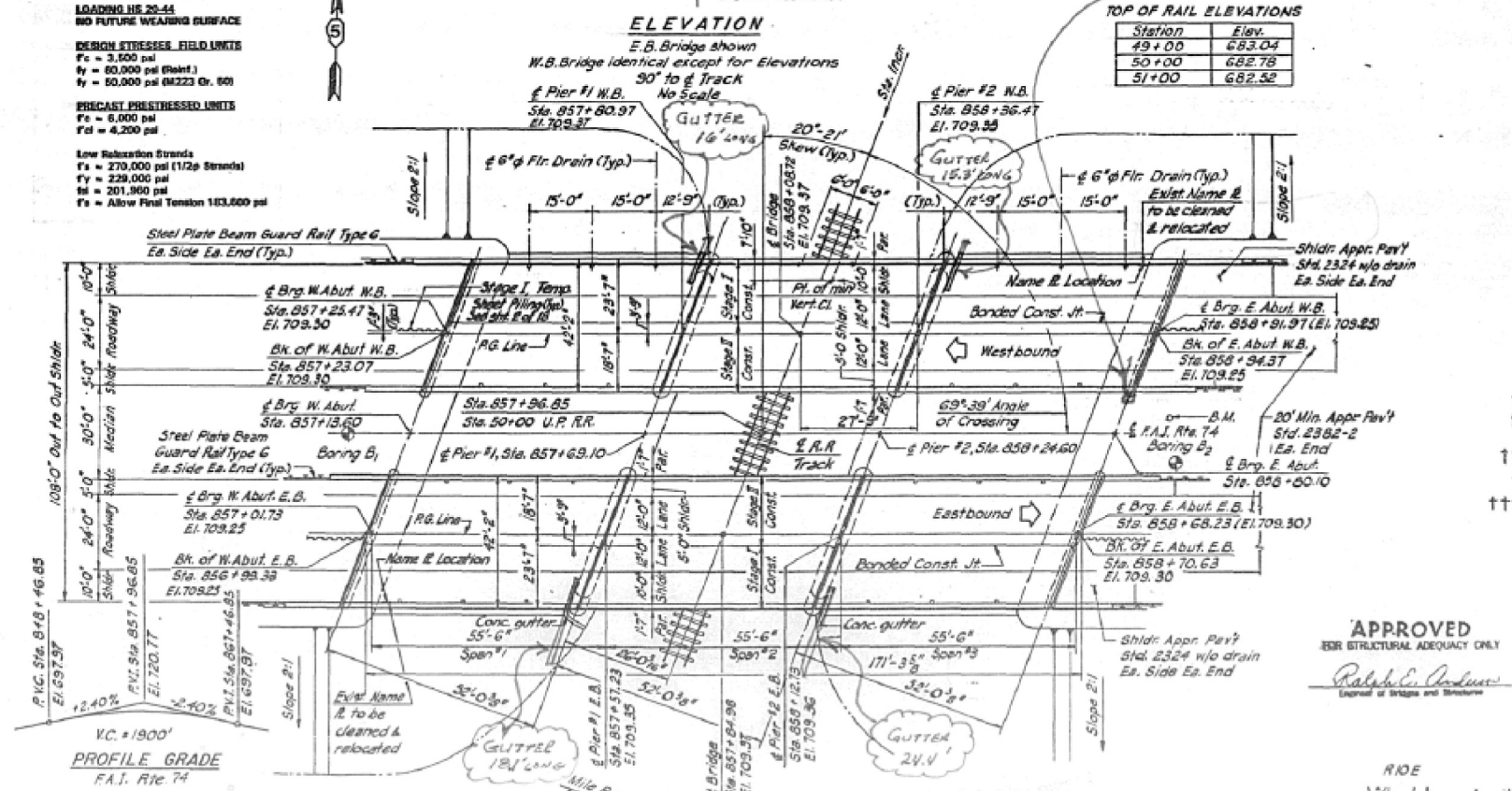
$f_s = \text{Allow Final Tension } 103,000$ psi

ELEVATION

E.B. Bridge shown
W.B. Bridge identical except for Elevations
90° to track
No Scale

TOP OF RAIL ELEVATIONS

Station	Elev.
49+00	683.04
50+00	682.78
51+00	682.52



PROFILE GRADE

F.A.I. RTE. 74

DESIGNED BY: M.E.F.

DRAWN BY: J.M.H./D.A.

CHECKED BY: M.E.F.

AMIR-FAZLI AND ASSOCIATES, INC.

CONSULTING ENGINEERS

EXISTING BRIDGE DESCRIPTION

STRUCTURE NOS. 010-0031, 0032 WERE BUILT IN 1957 CARRYING FAI ROUTE 74 OVER THE UNION PACIFIC RAILROAD, EACH WITH THREE SIMPLE SPANS OF 86'6" EACH, OVERALL LENGTH OF 171.3' BACK TO BACK OF ABUTMENTS, 36'6" OUT TO DUT WIDTH, R.C. DECK ON P.P.C. I-BEAM SUPERSTRUCTURE, BUILT-UP COLUMN PIERS ON SPREAD FOOTINGS, AND OPEN TYPE ABUTMENTS ON CONCRETE PILES. THE SUPERSTRUCTURES WILL BE WIDENED TO 42'2" OUT TO OUT. THE SUB-STRUCTURES AND EXISTING GIRDERS WILL BE REHABILITATED AND REUSED. THE TRAFFIC WILL BE MAINTAINED IN BOTH DIRECTIONS USING STAGE CONSTRUCTION. NO SALVAGE.

TOTAL BILL OF MATERIAL (E.B. & W.B.)

ITEM	UNIT	SUPER		TOTAL
		PERS	ABUT	
Structure Excavation	Cu. Yd.	420	1125	1545
Class X Concrete	Cu. Yd.	155	130	285
Class X Concrete Superstructure	Cu. Yd.	418		418
Reinforcement Bars	Lbs.	2,100		2,100
Reinforcement Bars (Epoxy Coated)	Lbs.	114,000	12,700	126,700
STONE RIPRAP CLASS A-3	Sq. Yd.		643	643
Protective Coat	Sq. Yd.	330		330
Concrete Piles	Lin. Ft.		450	450
Test Pile, Concrete	Each		2	2
Furnishing & Erecting Structural Steel	Lbs.	11,300	550	11,850
Floor Drains	Each	24		24
Furnishing & Erecting Precast Prestressed Concrete I Beams (36')	Lin. Ft.	335		335
Name Plates	Each	2		2
Temporary Sheet Piling	Sq. Ft.		650	650
Bridge Seat Sealer	Sq. Ft.		54	54
Repair Concrete Structure	Sq. Ft.	221		221
Epoxy Crack Sealing	Lin. Ft.	10		10
Epoxy Mortar Repair	Cu. Ft.	5		5
Preformed Joint Seal 1 1/2"	Lin. Ft.	184		184
Preformed Joint Seal 2 1/2"	Lin. Ft.	92		92
Preformed Joint Seal 4"	Lin. Ft.	92		92
Elastomeric Bearing Assembly, Type I	Each	6		6
Bridge Deck Grooving	Sq. Yds	1410		1410
Concrete Removal	Cu. Yd.		10	10
FILTER FABRIC FOR USE WITH RIPRAP	Sq. Yd.		694	694
REMOVAL OF EXISTING CONCRETE DECK NO. 5	EACH	1		1
REMOVAL OF EXISTING CONCRETE DECK NO. 6	EACH	1		1
BITUMINOUS MATERIALS SER. COAT (SPECIAL) GRL.			355	355
SERL COAT AGGREGATE	TON		8	8

INCLUDES TOP AND INSIDE FACES OF PARAPETS ONLY.

ALL SUPERSTRUCTURE REMOVAL IS INCIDENTAL TO "REMOVAL OF EXISTING CONCRETE DECK" OF THE A.D. SPECIFIED. SEE SHEET 70F10.

INCLUDES GUTTER QUANTITIES.

STATION 857 + 96.85
REBUILT IN 1999 BY
STATE OF ILLINOIS
F.A.I. RTE. 74 SEC. (10-7VB) BR

LOADING HS20 & ALT.
STR. NO. 010-0031

NAME PLATE

SEE STANDARD 2113
NOTE: EAST BOUND SHOWN, FOR WEST BOUND
USE STRUCTURE NUMBER 010-0032

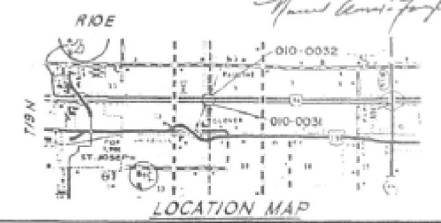
GENERAL PLAN

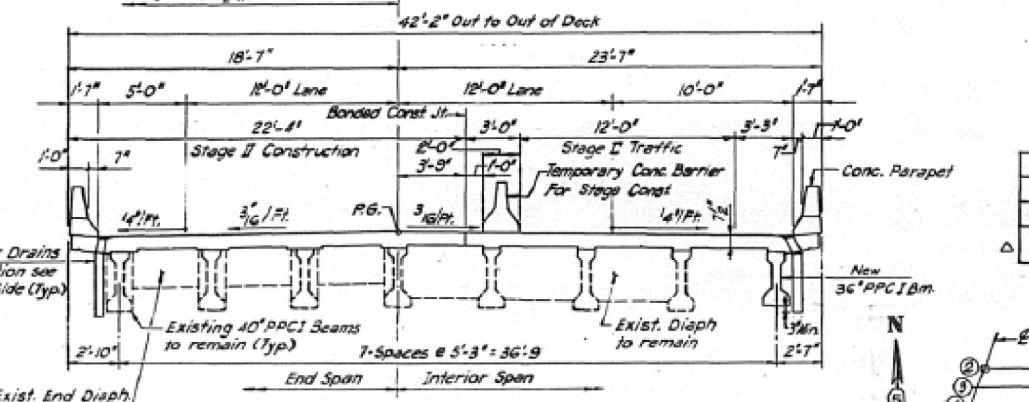
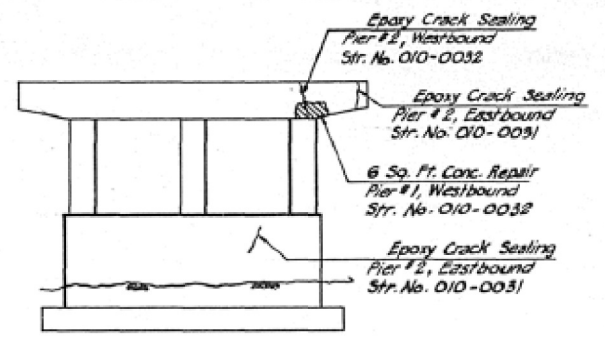
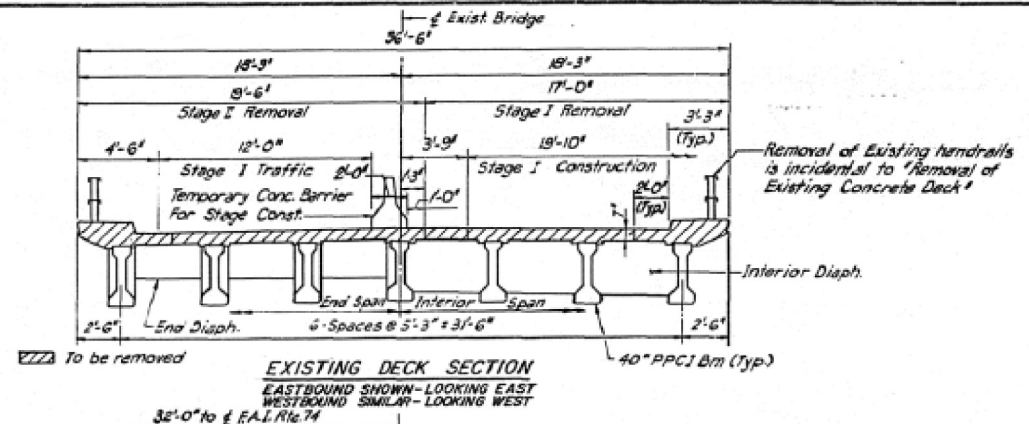
FAI RTE. 74 OVER
UNION PACIFIC RAILROAD
SEC. (10-7VB) BR
CHAMPAIGN COUNTY
STR. NO. 010-0031, 0032
STA. 857 + 96.85

APPROVED

SEER STRUCTURAL ADEQUACY ONLY

Ralph E. Anderson
Engineer of Bridges and Structures



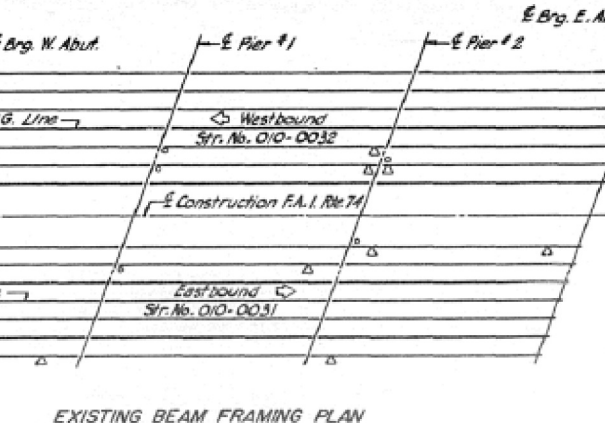
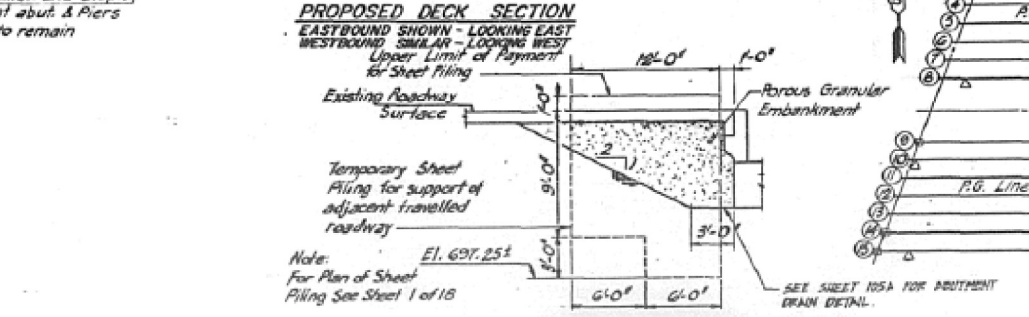


LEGEND

- Repair Concrete Structure
- Epoxy Crack Sealing

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Repair Concrete Structure	Sq. Ft.	6
Epoxy Crack Sealing	Lin. Ft.	10
Epoxy Mortar Repair	Sq. Ft.	5



BILL OF MATERIAL

ITEM	UNIT	QUANTITY
No. of Exp. Bearings to be adjusted	Each	5
No. of Fixed bearings to be cleaned or replaced	Each	4

LEGEND

- Bottom flange of beam to be repaired. Use 'Epoxy Mortar Repair'. See special provisions.
- Bearing plates and bolts to be cleaned or replaced as directed by the engineer. This work incidental to 'Jack and Reposition Bearings'. See special provisions.
- Expansion bearings to be adjusted. This work paid for under 'Jack and Reposition Bearings'. See special provisions.

GENERAL NOTES

CLASS 3 CONCRETE SHALL BE USED THROUGHOUT.

REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M-31, M-42 OR M-53 GRADE 60.

THE EXISTING EMBANKMENT CONFIGURATION IS THE MINIMUM TO BE MAINTAINED BY THE CONTRACTOR. ADDITIONAL MATERIAL SHALL BE PLACED ON TOP AS DIRECTED BY THE ENGINEER. COST INCIDENTAL TO 'SUB-BASE GRANULAR MATERIAL, TYPE B-6'.

THE CONTRACTOR SHALL DRIVE IN PERMANENT LOCATIONS, TWO CONCRETE TEST PILES (NO TON CAPACITY) ONE AT AN EAST ABUTMENT AND ONE AT A WEST ABUTMENT AS DIRECTED BY THE ENGINEER BEFORE ORDERING THE REMAINDER OF THE PILES.

PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING STRUCTURE HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SUCH DIMENSIONS AND DETAILS IN THE FIELD 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 THE SCOPE OF THE WORK. HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.

THE ZINC-BLENDED AND VINYL PAINT SYSTEM SHALL BE USED FOR SHOP AND FIELD PAINTING OF STRUCTURAL STEEL. THE COLOR OF THE VINYL FINISH COATS SHALL BE MUNSSELL No. 10y 7/1 LIGHT GREY.

ALL BARRICADES AND TRAFFIC CONTROL DEVICES NOTED IN THE CONTRACT DOCUMENTS AND DEEMED NECESSARY BY THE ENGINEER SHALL BE PLACED PRIOR TO THE START OF CONSTRUCTION.

THE LOCATION, QUANTITIES AND EXTENT OF THE REPAIRS AND/OR REPLACEMENT SHOWN ON THE PLANS ARE BASED ON VISUAL OBSERVATIONS MADE DURING THE FIELD INSPECTION. ADDITIONAL DETERIORATION WHICH COULD NOT BE DETERMINED VISUALLY OR WHICH MAY HAVE OCCURRED AFTER THE INSPECTION SHALL ALSO BE REPAIRED AS DIRECTED BY THE ENGINEER.

ALL MINOR DETERIORATION AND SPALLS AT ABUTMENTS AND PIERS SHALL BE REPAIRED USING PNEUMATIC APPLIED CONCRETE AND SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQ. FT. FOR 'REPAIR CONCRETE STRUCTURES'. SEE SPECIAL PROVISIONS.

ALL CRACKS IN THE CONCRETE FACES OF ABUTMENTS AND PIERS SHALL BE FILLED IN WITH EPOXY CRACK SEALING. SEE SPECIAL PROVISIONS.

FORMED CONCRETE REPAIR LESS THAN OR EQUAL TO 5" SHALL BE PERFORMED AT THE EXISTING INTERMEDIATE DIAPHRAGMS (SEE SHEET 3 OF 18) AND PIERS AS SHOWN ON PLANS AND SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQ. FT. FOR 'FORMED CONCRETE REPAIR LESS THAN OR EQUAL TO 5"'. SEE SPECIAL PROVISIONS.

REMOVE INTERMEDIATE DIAPHRAGMS BETWEEN LINES "C" AND "D" AS SHOWN ON SHEET 7 OF 18 BEFORE CONSTRUCTING THE NEW DECK.

THE CONTRACTOR WILL BE REQUIRED TO MARK ON TOP OF THE CONCRETE DECK THE LOCATIONS OF THE TOP FLANGE OF ALL THE CONCRETE BEAMS, PRIOR TO ANY REMOVAL OF THE BRIDGE CONCRETE DECK. SAW CUTTING DIRECTLY OVER THE TOP OF THE BEAM FLANGES IS NOT PERMITTED.

ALL SAWCUTTING SHALL BE CONSIDERED AS INCIDENTAL TO THE REMOVAL ITEM INVOLVED.

BRIDGE SEAT SEALER SHALL BE APPLIED TO THE TOP SURFACES OF THE PIERS AND ABUTMENT SEATS.

ESTIMATED BRIDGE SEAT SEALER QUANTITY = 84 SQ. FT.

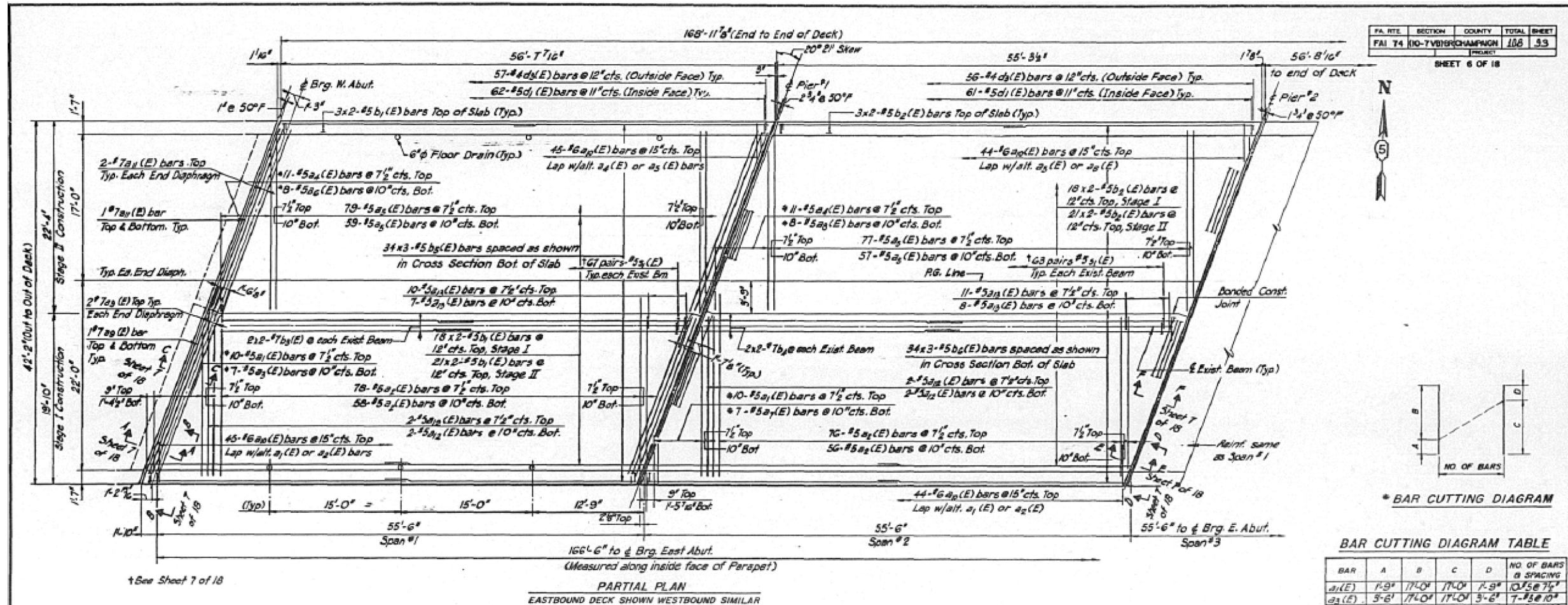
STAGING DETAILS & GENERAL NOTES

FAI RTE. 74 OVER
UNION PACIFIC RAILROAD
SEC. (10-7VB) BR
CHAMPAIGN COUNTY
STR. NO. 010-0031, 0032
STA. 857 + 96.85

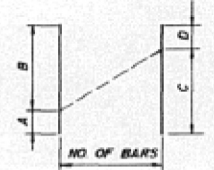
DATE

DESIGNED BY: N.A.F.
DRAWN BY: J.M.A. / J.B.A.
CHECKED BY: C.M.D.

AMIR-FAZLI AND ASSOCIATES, INC.
CONSULTING ENGINEERS



FA. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-7VB)R	CHAMPAIGN	106	93

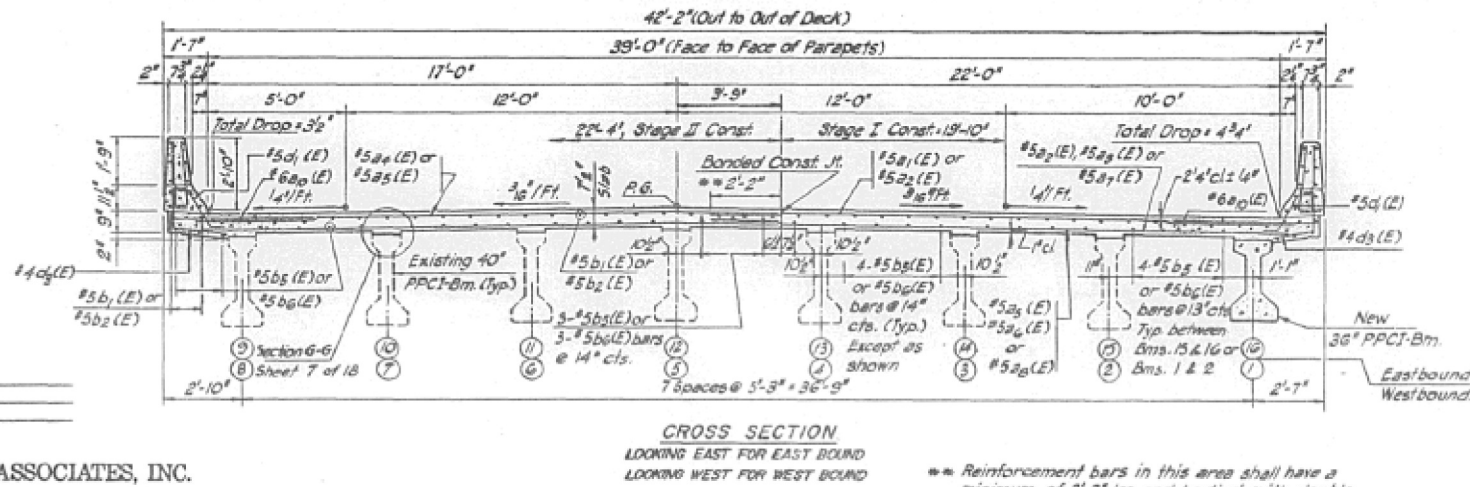


BAR CUTTING DIAGRAM TABLE

BAR	A	B	C	D	NO. OF BARS @ SPACING
a ₁ (E)	1'-9"	17'-0"	17'-0"	1'-9"	10 @ 56 7/8"
a ₂ (E)	5'-6"	17'-0"	17'-0"	5'-6"	7 @ 56 10"
a ₄ (E)	2'-0"	18'-9"	18'-9"	2'-0"	11 @ 56 7/8"
a ₅ (E)	3'-1"	18'-9"	18'-9"	3'-1"	8 @ 56 10"
a ₇ (E)	5'-8"	17'-0"	17'-0"	5'-8"	7 @ 56 10"
a ₉ (E)	3'-2"	19'-0"	19'-0"	3'-2"	8 @ 56 10"

DESIGNED BY: N.A.F.
 DRAWN BY: JNR/JBQ
 CHECKED BY: O.M.D.

AMIR-FAZLI AND ASSOCIATES, INC.
 CONSULTING ENGINEERS

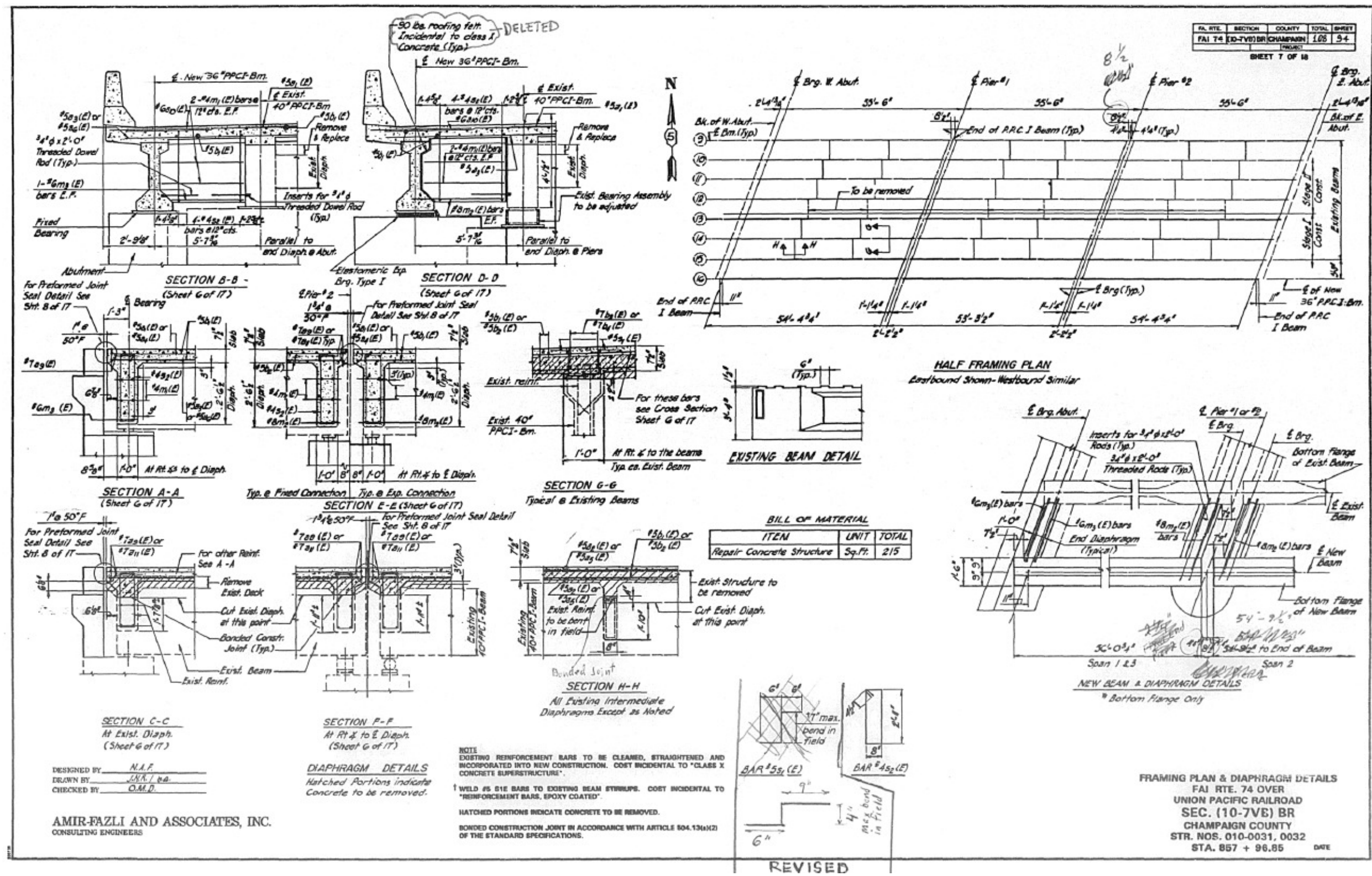


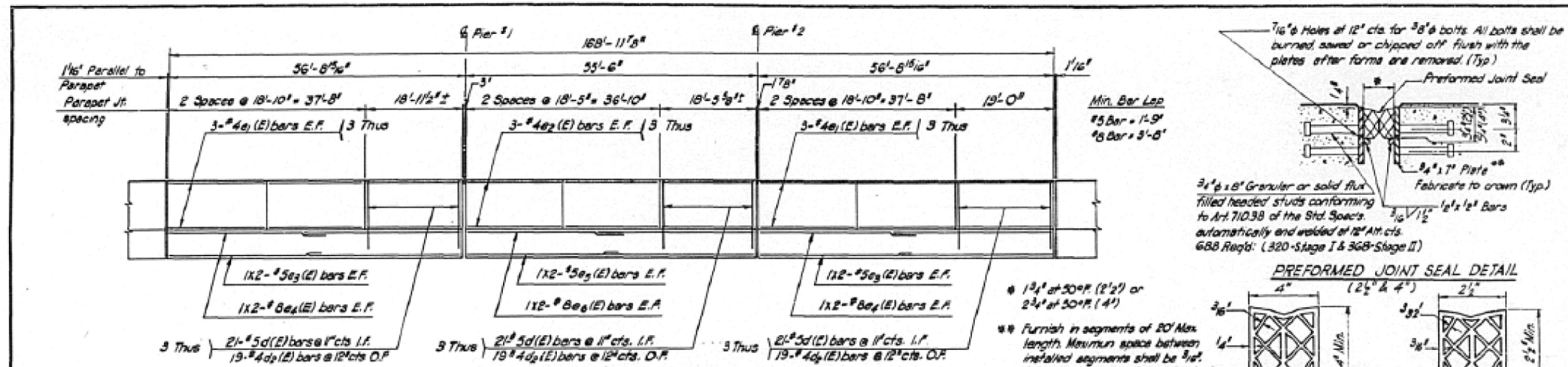
Reinforcement bars in this area shall have a minimum of 2'-2\"/>

NOTES:
 REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.
 BARS INDICATED THUS 29 x 4-25 etc., INDICATES 29 LINES OF BARS WITH 4 LENGTHS PER LINE.
 FOR BILL OF MATERIAL SEE SHEET 9 OF 10
 MINIMUM BAR LAPS FOR #5 BARS = 1'-9"
 * SUPPLY FULL LENGTH OF BARS. CUT AS SHOWN AND PLACE HALF OF THE BARS AT EACH END OF SPAN.
 MINIMUM BAR LAPS FOR #7 BARS = 2'-10"

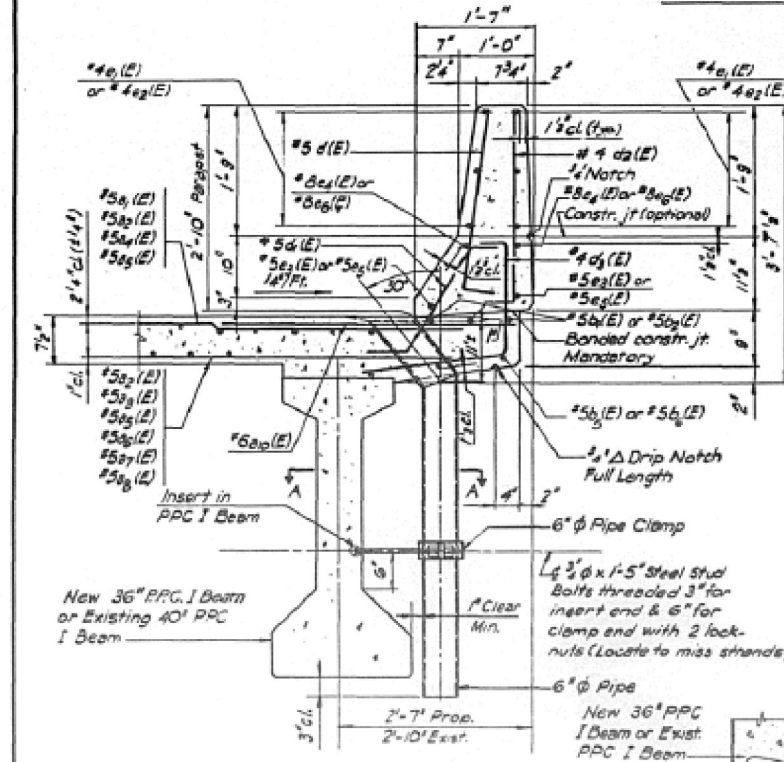
DECK PLAN AND SECTION
 FAI RTE. 74 OVER
 UNION PACIFIC RAILROAD
 SEC. (10-7VB) BR
 CHAMPAIGN COUNTY
 STR. NOS. 010-0031, 0032
 STA. 857 + 86.85

FAJ RTE.	SECTION	COUNTY	TOTAL SHEET
FAJ 74 (10-7VE) BR	CHAMPAIGN	108	94
PROJECT			
SHEET 7 OF 18			

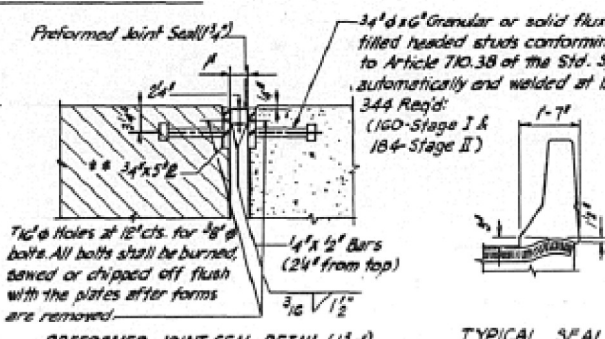




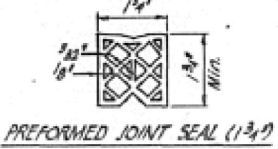
INSIDE ELEVATION OF PARAPET



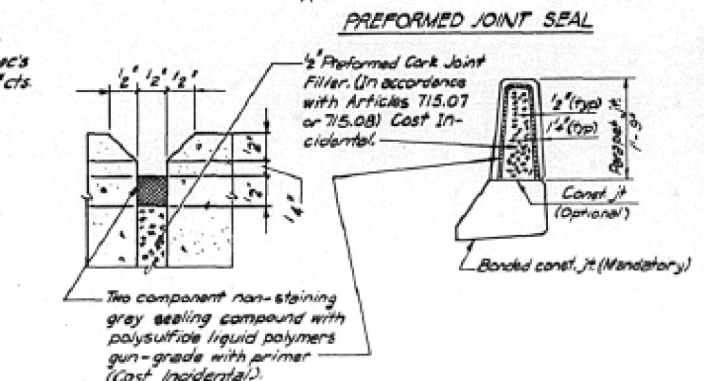
SECTION THRU PARAPET



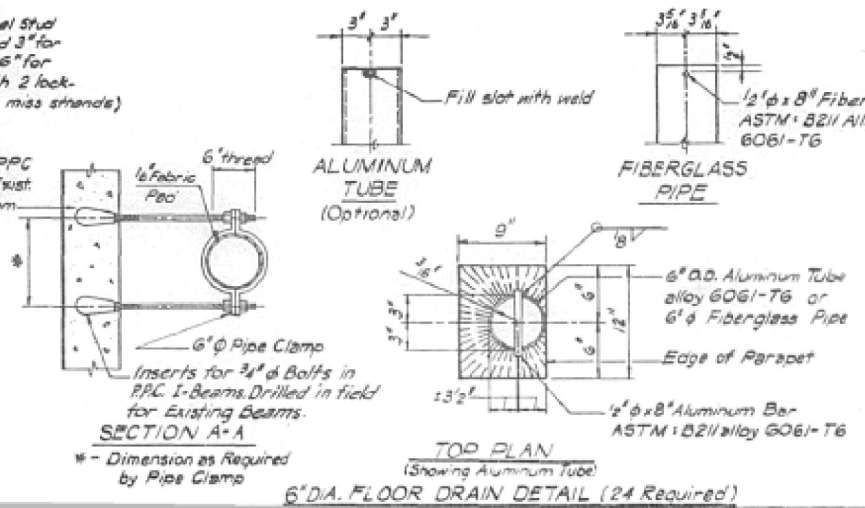
PREFORMED JOINT SEAL DETAIL (1 1/4")



PREFORMED JOINT SEAL (1 3/4")



DETAILS OF PARAPET JOINT



SECTION A-A

TOP PLAN

6" DIA. FLOOR DRAIN DETAIL (24 Required)

FA. RTE.	SECTION	COUNTY	TOTAL SHEET
FAI 74	10-7VB	CHAMPAIGN	108 3/5

SHEET 8 OF 10

SUPERSTRUCTURE BILL OF MATERIAL

BAR	No	SIZE	LENGTH	SHAPE
a1(E)	60	#5	18'-9"	
a2(E)	820	#5	21'-0"	
a3(E)	28	#5	20'-8"	
a4(E)	66	#5	20'-8"	
a5(E)	820	#5	21'-0"	
a6(E)	38	#5	21'-0"	
a7(E)	14	#5	20'-8"	
a8(E)	16	#5	21'-0"	
a9(E)	48	#7	23'-2"	
a10(E)	48	#7	22'-0"	
a11(E)	12	#5	19'-0"	
a12(E)	106	#5	3'-0"	
b1(E)	360	#5	29'-3"	
b2(E)	180	#5	28'-7"	
b3(E)	118	#7	28'-6"	
b4(E)	26	#7	28'-9"	
b5(E)	408	#5	19'-11"	
b6(E)	204	#5	19'-6"	
c(E)	156	#5	2'-10"	
d1(E)	140	#5	2'-7"	
d2(E)	684	#4	2'-10"	
d3(E)	680	#4	4'-7"	
e1(E)	144	#4	19'-7"	
e2(E)	72	#4	18'-7"	
e3(E)	32	#5	29'-4"	
e4(E)	32	#8	30'-0"	
e5(E)	16	#5	28'-9"	
e6(E)	16	#8	29'-4"	
m1(E)	48	#4	4'-8"	
m2(E)	16	#8	4'-0"	
m3(E)	8	#6	3'-7"	
s1(E)	5316	#5	1'-7"	
s2(E)	48	#4	1'-11"	
ITEM				UNIT QUANTITY
(Class) Concrete Superstructure				Cu.Yd 478
Reinforcement Bars (Epoxy Coated)				Lbs. 114,000

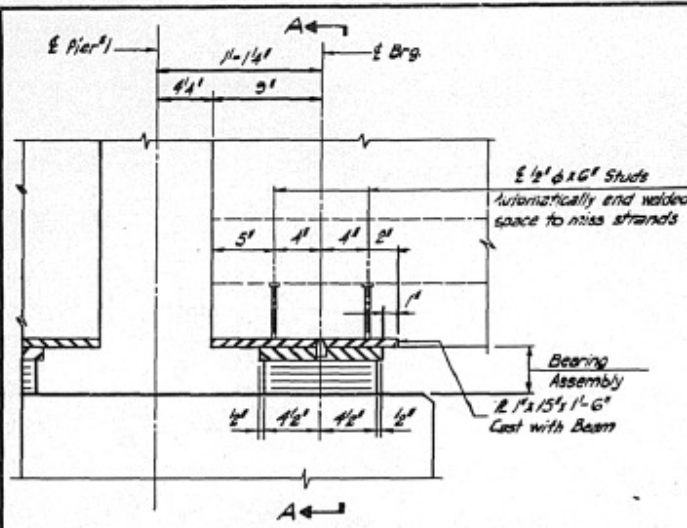
NOTES
 FIBERGLASS PIPE SHALL CONFORM TO ASTM D2396, WITH SHORT-TIME RUPTURE STRENGTH HOOP TENSILE STRESS OF 30,000 psi MINIMUM. THE SURFACE OF THE FIBERGLASS PIPE SHALL BE FREE OF BOND SETTING AGENTS.
 THE EXTERIOR SURFACES OF THE FIBERGLASS FLOOR DRAINS SHALL BE PAINTED WITH ONE COAT OF ALUMINUM PAINT. PAINTING OF THE FIBERGLASS FLOOR DRAINS WILL NOT BE REQUIRED WHEN THE EXTERIOR SURFACES OF THE FURNISHED DRAINS ARE COATED BY THE MANUFACTURER WITH SILVER PIGMENT OR A PIGMENT THAT MATCHES THE COLOR OF THE CONCRETE BEAM.
 THE CLAMPING DEVICE AND INSERTS SHALL BE GALVANIZED IN ACCORDANCE WITH AASHTO M-232.
 BARS DESIGNATED (E) SHALL BE EPOXY COATED.
 BARS INDICATED THUS 1 X 2 #5 ETC., INDICATES ONE LINE OF BARS WITH TWO LENGTHS PER LINE.

DESIGNED BY: N.A.F.
 DRAWN BY: S.S.
 CHECKED BY: O.M.D.

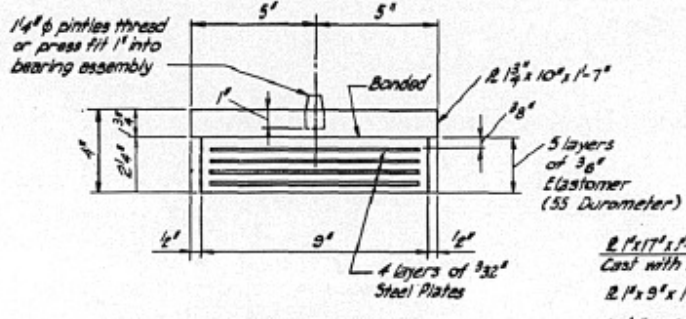
AMIR-FAZLI AND ASSOCIATES, INC.
 CONSULTING ENGINEERS

PARAPET DETAILS
 FAI RTE. 74 OVER
 UNION PACIFIC RAILROAD
 SEC. (10-7VB) BR
 CHAMPAIGN COUNTY
 STR. NOS. 010-0031, 0032
 STA. 857 + 96.85 DATE

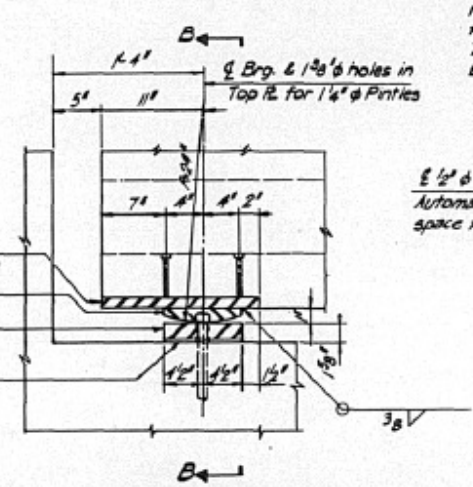
FAI RTE.	SECTION	COUNTY	TOTAL SHEET
FAI 74 (10-7VB) BR	CHAMPAIGN	188	96
PROJECT			
SHEET 9 OF 18			



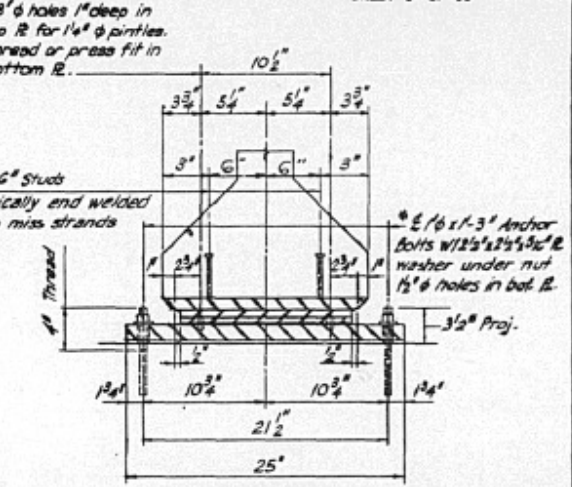
SECTION AT PIER #1 - SPAN 2
Type I Elastomeric Exp Bearing
Details for Span 1 Expansion Brg. Similar by rotation
Details for Expansion Brg. at Pier #2 are similar



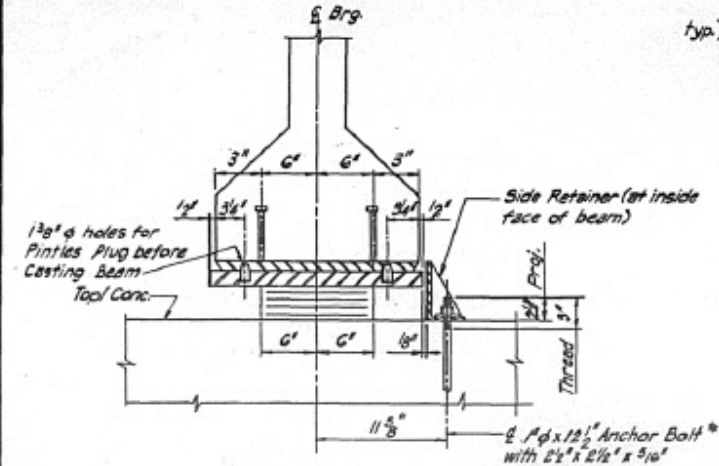
BEARING ASSEMBLY
Note: Shim plates shall not be placed under bearing Assembly



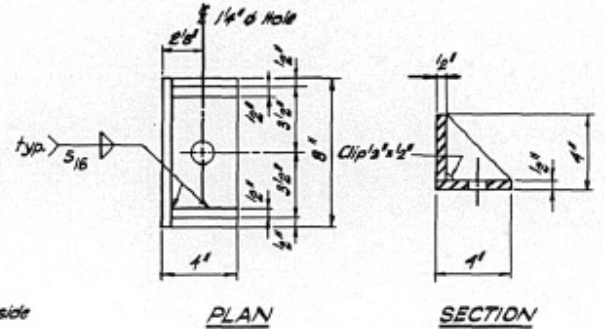
SECTION AT ABUTMENTS (Fixed Bearing)



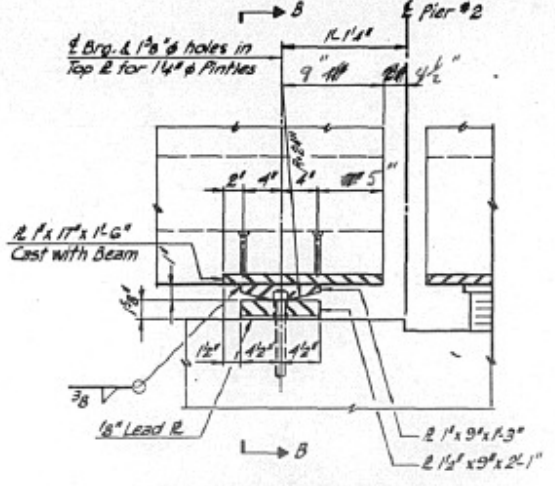
SECTION B-B
No Scale



SECTION A-A
No Scale



PLAN SECTION
SIDE RETAINER
G Required

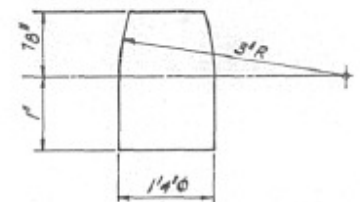


SECTION AT PIER #2 - SPAN 2 (Fixed Bearing)

- NOTES**
- THE STRUCTURAL STEEL BEARING PLATES OF ELASTOMERIC BEARING ASSEMBLIES AND FIXED BEARING ASSEMBLIES SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M223, GRADE 50.
 - ALL EXPOSED SHIM PLATES SHALL BE AASHTO M223, GRADE 50. SCOT INCIDENTAL TO THE ITEM INVOLVED.
 - EQUIVALENT ROLLED ANGLE WITH STIFFENERS WILL BE ALLOWED IN LIEU OF WELDED PLATES FOR SIDE RETAINER.
 - ALL ANCHORED BEARING PLATES IN PRESTRESSED CONCRETE BEAMS ARE INCLUDED IN THE UNIT PRICE BID FOR PRESTRESSED CONCRETE BEAMS (2'-8" DEPTH).
 - ANCHOR BOLTS MAY BE BUILT INTO THE MASONRY OR DRILLED AND GROUTED IN PLACE AFTER BEAMS HAVE BEEN ERECTED. SEE SHEET 10 OF 18 FOR INSTALLATION.
 - AFTER BEAMS HAVE BEEN ERECTED, HOLES SHALL BE DRILLED AND ANCHOR BOLTS GROUTED IN PLACE. SEE SHEET 10 OF 18 FOR ANCHOR BOLT INSTALLATION.

DESIGNED BY: N.A.F.
DRAWN BY: A.C.
CHECKED BY: A.A.

AMIR-FAZLI AND ASSOCIATES, INC.
CONSULTING ENGINEERS



PINTLE

BILL OF MATERIAL

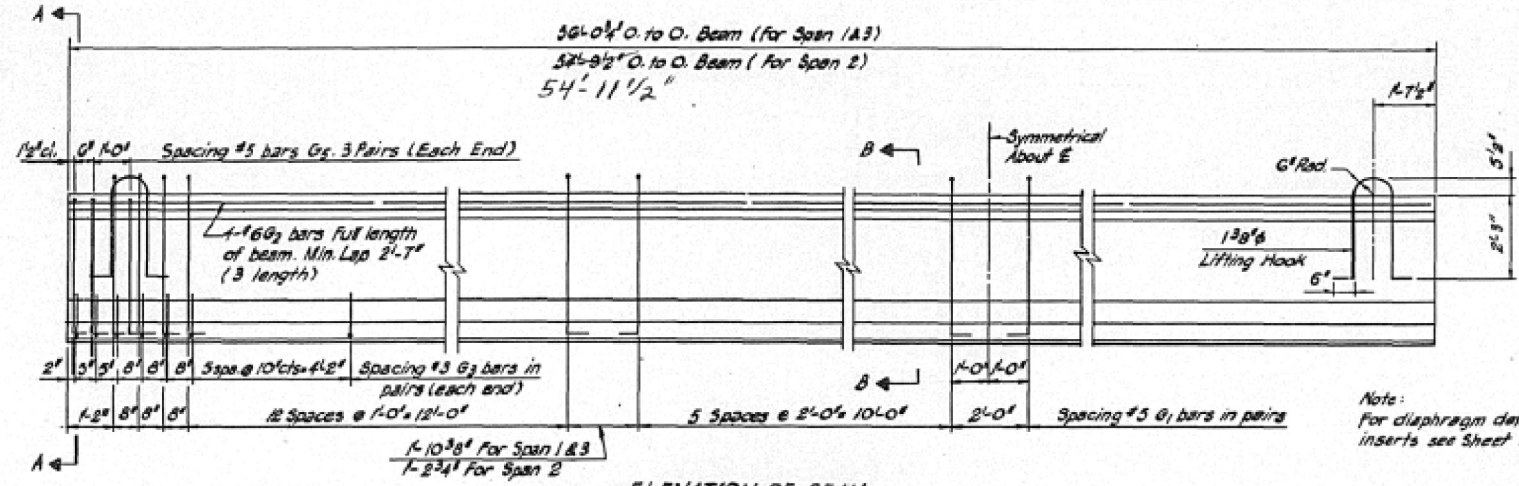
LOCATION	% of Elast. Brg. Type I
Pier #1 (E.B. & W.B.)	4
Pier #2 (E.B. & W.B.)	2
Total	6

ELASTOMERIC & FIXED BEARINGS
FAI RTE. 74 OVER
UNION PACIFIC RAILROAD
SEC. (10-7VB) BR
CHAMPAIGN COUNTY
STR. NOS. 010-0031, 0032
STA. 857 + 96.85

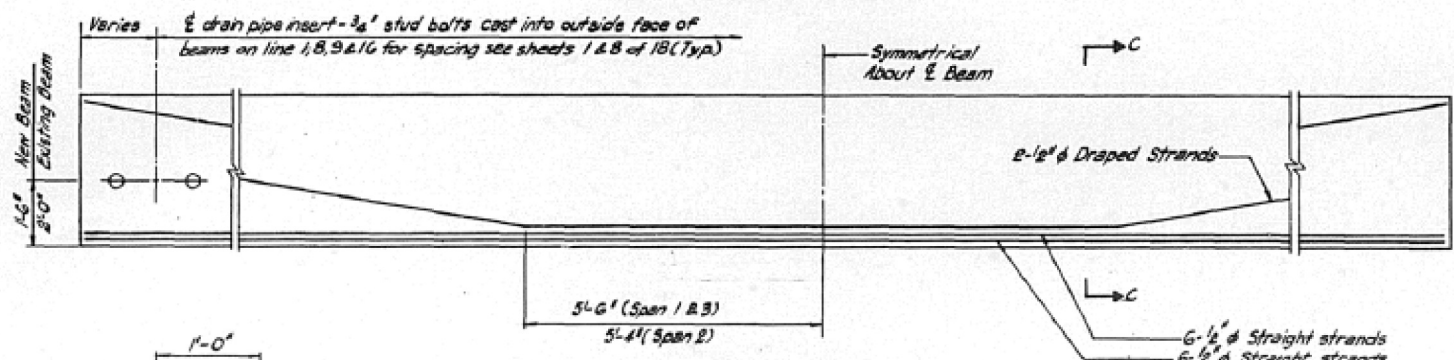
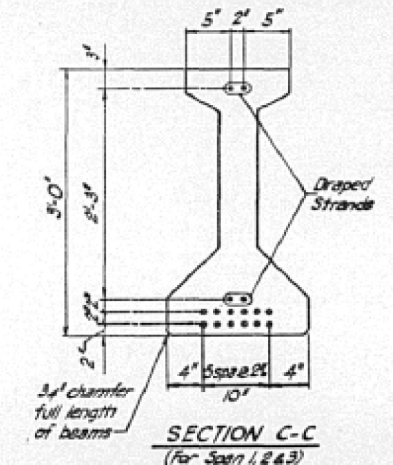
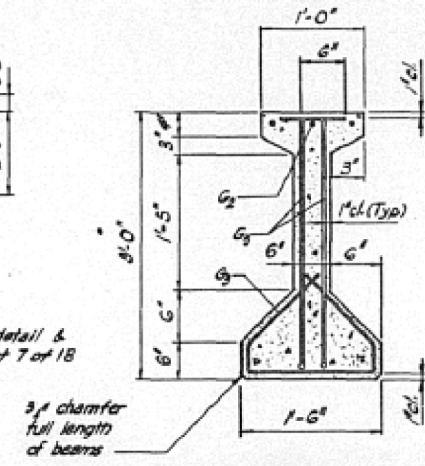
DATE

FAI RTE.	SECTION	COUNTY	TOTAL SHEET
74	(10-7VB) BR	CHAMPAIGN	108
PROJECT			98

SHEET 11 OF 18



ELEVATION OF BEAM
 Showing Reinforcement & Dimensions



ELEVATION OF BEAM
 Showing Prestressing Steel
 (For Span 1, 2 & 3)

BAR LIST (One Beam), For Span 1 & 3

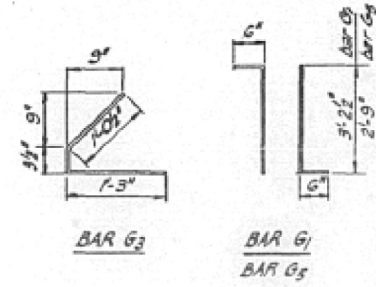
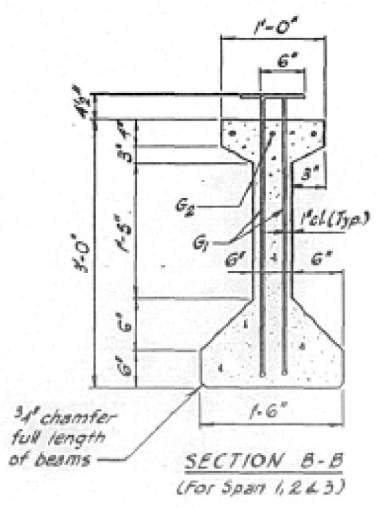
Bar	No.	Size	Length	Shape
G ₁	88	#5	4'-2 1/2"	TL
G ₂	9	#6	20'-8"	
G ₃	44	#3	2'-7"	L
G ₅	12	#5	3'-9"	TL

4 Beams Required

BAR LIST (One Beam), For Span 2

Bar	No.	Size	Length	Shape
G ₁	88	#5	4'-2 1/2"	TL
G ₂	9	#6	20'-8"	
G ₃	44	#3	2'-7"	L
G ₅	12	#5	3'-9"	TL

2 Beams Required



BILL OF MATERIAL (for Span 1 & 3)

Item	Unit	Total
Furnishing & Erecting Precast Prestressed Concrete I-Beams, 36"	Lin. Ft.	225

BILL OF MATERIAL (for Span 2)

Item	Unit	Total
Furnishing & Erecting Precast Prestressed Concrete I-Beams, 36"	Lin. Ft.	110

NOTES

PRESTRESSING STEEL SHALL BE NON-GALVANIZED HIGH STRENGTH LOW RELAXATION 7 WIRE STRAND, GRADE 270.

ALL INSERTS AND THREADED RODS FOR INSERTS, REINFORCING AND PRESTRESSING STEEL AND OTHER ITEMS WHICH ARE CAST INTO THE PRECAST CONCRETE GIRDERS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER LINEAL FOOT OF FURNISHING AND ERECTING PRECAST PRESTRESSED CONCRETE I BEAM 36".

PRESTRESSING STEEL SHALL BE A NOMINAL DIAMETER OF 1/2" AND A NOMINAL CROSS-SECTIONAL AREA SHALL BE 0.153 SQ. IN.

INSERTS FOR 3/4" φ THREADED RODS ARE TO BE TWO STRUT, SINGLE COIL, FLARED LOOP TYPE FOR EXTERIOR GIRDERS.

STEEL FOR LIFTING HOOKS SHALL BE NON-DEFORMED BARS f_y = 40,000 psi.

REQUIRED RELEASE STRENGTH f_r SHALL BE 4,200 psi.

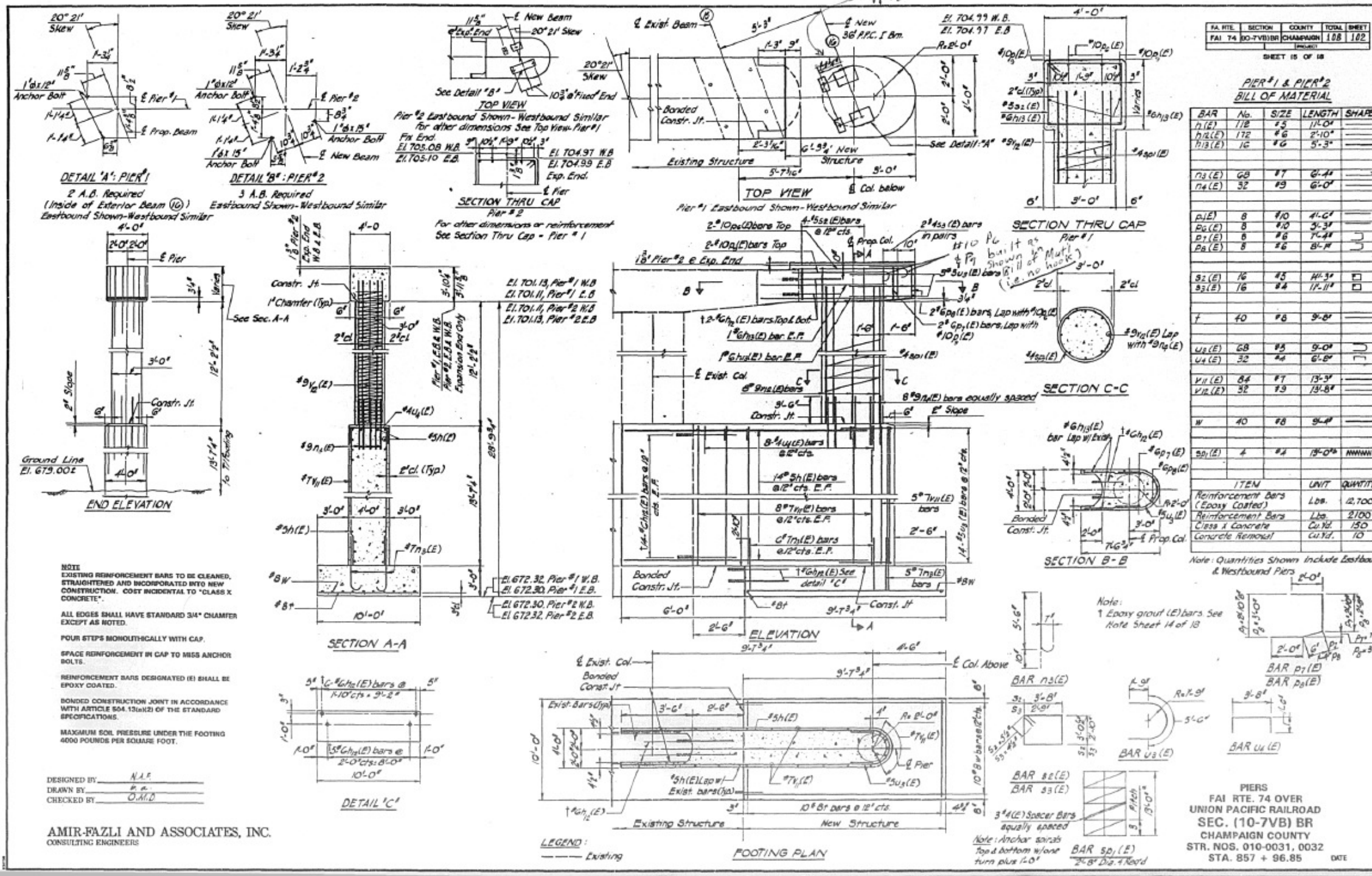
NON-PRESTRESSING STEEL SHALL CONFORM TO AASHTO DESIGNATION M-31, M-42, OR M-52, GRADE 60.

SEE DIAPHRAGM DETAILS ON SHEET 7 OF 18 BEFORE FABRICATING.

DESIGNED BY: N.A.F.
 DRAWN BY: B.C.
 CHECKED BY: A.A.

AMIR-FAZLI AND ASSOCIATES, INC.
 CONSULTING ENGINEERS

PRESTRESSED BEAMS - SPANS 1, 2 & 3
 FAI RTE. 74 OVER
 UNION PACIFIC RAILROAD
 SEC. (10-7VB) BR
 CHAMPAIGN COUNTY
 STR. NOS. 010-0031, 0032
 STA. 857 + 96.85



FA. RTE.	SECTION	COUNTY	TOTAL SHEET
FAI 74	10-7VB	CHAMPAIGN	108 102

SHEET 15 OF 18

PIER #1 & PIER #2
BILL OF MATERIAL

BAR	No.	SIZE	LENGTH	SHAPE
n1(E)	178	#5	11'-0"	
n2(E)	172	#6	2'-10"	
n3(E)	16	#6	5'-3"	
n4(E)	68	#7	6'-4"	
n5(E)	32	#9	6'-0"	
p1(E)	8	#10	4'-0"	
p2(E)	8	#10	3'-3"	
p3(E)	8	#6	7'-0"	
p4(E)	8	#6	8'-0"	
s1(E)	16	#5	14'-3"	
s2(E)	16	#4	17'-11"	
f	40	#8	9'-0"	
u3(E)	68	#5	9'-0"	
u4(E)	32	#4	6'-0"	
v1(E)	84	#7	13'-3"	
v2(E)	32	#3	13'-8"	
w	40	#8	9'-0"	
sp1(E)	4	#4	13'-0"	MWMM

ITEM	UNIT	QUANTITY
Reinforcement Bars (Epoxy Coated)	Lbs.	12,700
Reinforcement Bars	Lbs.	2,100
Class I Concrete	Cu.Yd.	150
Concrete Removal	Cu.Yd.	10

Note: Quantities Shown Include Eastbound & Westbound Piers

Note: 1 Epoxy grout (E) bars See Note Sheet 14 of 18

PIERS
FAI RTE. 74 OVER
UNION PACIFIC RAILROAD
SEC. (10-7VB) BR
CHAMPAIGN COUNTY
STR. NOS. 010-0031, 0032
STA. 857 + 96.85

S.N. 010-0089 WAS BUILT IN 1959 AS FAI ROUTE 74, SECTION 10-7HB-1 AT STATION 762+00.00 IN CHAMPAIGN COUNTY. THE STRUCTURE IS A FOUR (4) SPAN, 7" THICK REINFORCED DECK WITH PRESTRESSED CONCRETE BEAMS ON CONCRETE PILE SUPPORTED PIERS AND ABUTMENTS.

THE STRUCTURE HAS A BACK-TO-BACK ABUTMENT LENGTH OF 244'-10 1/2", OUT-TO-OUT WIDTH OF 34'-6", BRIDGE ROADWAY WIDTH OF 28'-0", AND AN APPROACH ROADWAY WIDTH OF 33'-6".

SEE LIST OF PROPOSED IMPROVEMENTS ON THIS SHEET.

WORK SHALL BE COMPLETED UTILIZING STAGED CONSTRUCTION

PROPOSED IMPROVEMENTS

1. PERFORM STRUCTURAL REPAIR OF CONCRETE ON SUBSTRUCTURE AND ABUTMENT.
2. HMA SURFACE REMOVAL (DECK)
3. HMA SURFACE REMOVAL 2"
4. BRIDGE DECK SCARIFICATION, 3/4".
5. REMOVE AND REPLACE SELECT FLOOR DRAINS.
6. FULL-DEPTH DECK PATCHING.
7. PLACEMENT OF PROPOSED LATEX CONCRETE WEARING SURFACE.
8. PLACE POLYMER CONCRETE.
9. PERFORM BRIDGE DECK GROOVING (LONGITUDINAL).
10. PLACE SILICONE JOINT SEALER
11. PLACE HOT-MIX ASPHALT SHOULDERS.

GENERAL NOTES

PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN SCOPE OF WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.

EXISTING REINFORCEMENT BARS EXTENDING INTO THE REMOVAL AREA SHALL BE CLEANED, STRAIGHTENED AND INCORPORATED INTO THE NEW CONSTRUCTION. COST INCLUDED WITH DECK SLAB REPAIR

AREAS OF DECK REPAIRS SHOWN ARE ESTIMATED. THE ENGINEER SHALL SHOW ACTUAL LOCATIONS OF THE DECK REPAIRS ON AS-BUILT PLANS.

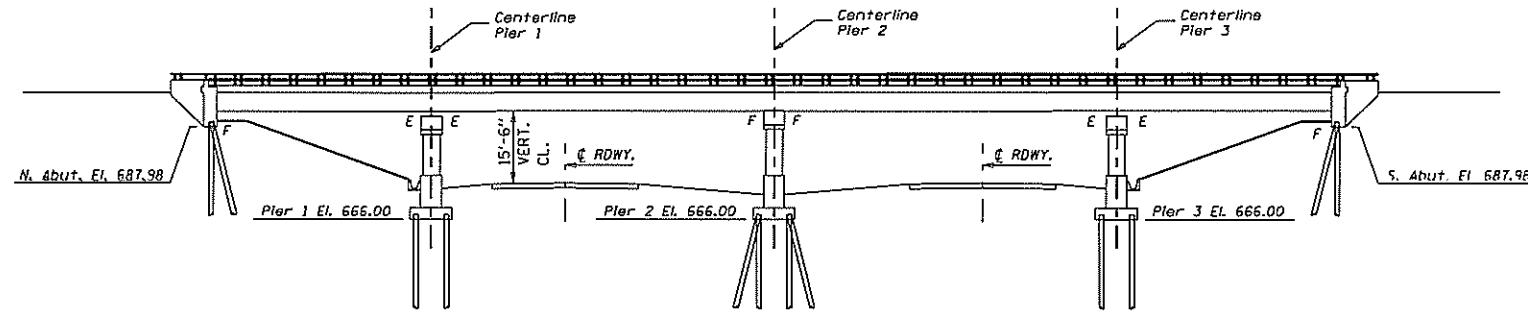
SYNTHETIC FIBERS SHALL BE INCLUDED IN THE BRIDGE DECK LATEX CONCRETE OVERLAYS. SEE SPECIAL PROVISIONS.

S.N. 010-0089 HAS BEEN DETERMINED, THROUGH TESTING, NOT TO INVOLVE ASBESTOS IN THE BITUMINOUS BRIDGE DECK WEARING SURFACE OR WATERPROOFING MEMBRANE AS CERTIFIED WITH BBS FORM 2536 DATED OCTOBER 19, 2001.

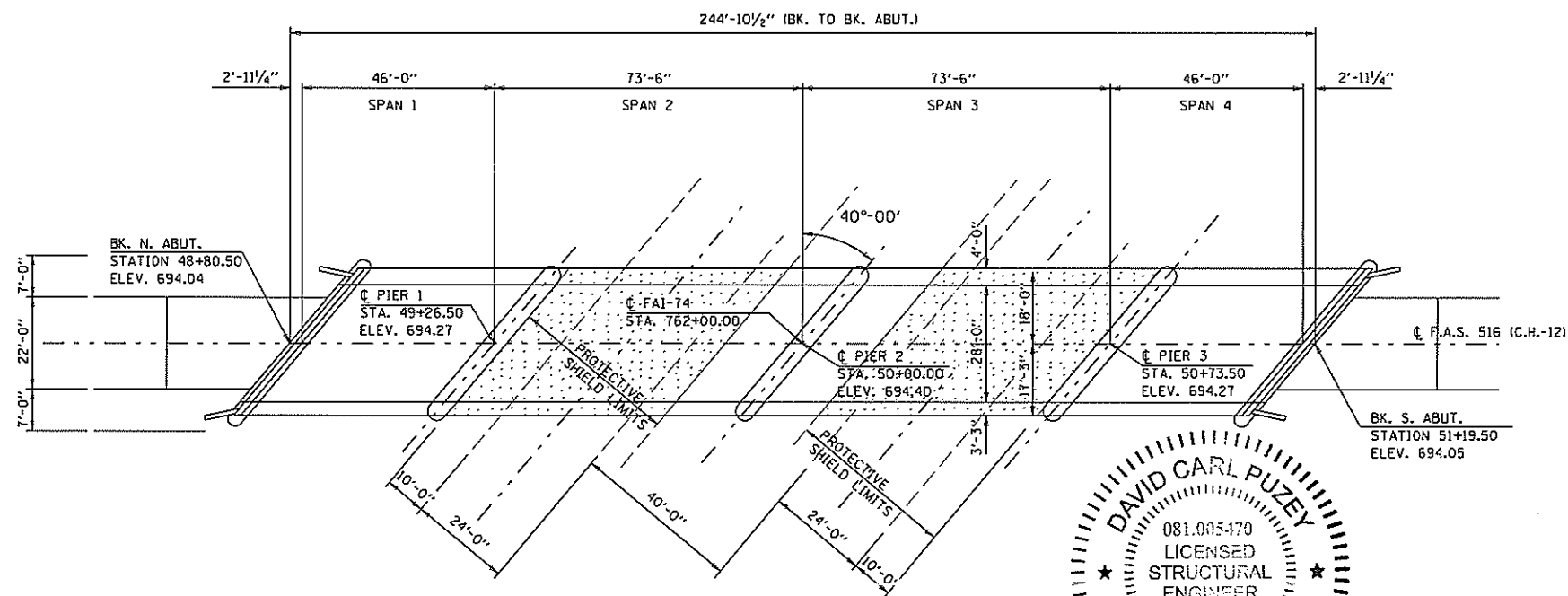
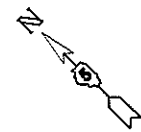
PROTECTIVE COAT SHALL BE APPLIED TO THE BRIDGE DECK CONCRETE OVERLAY AREAS ONLY.

TOTAL BILL OF MATERIALS

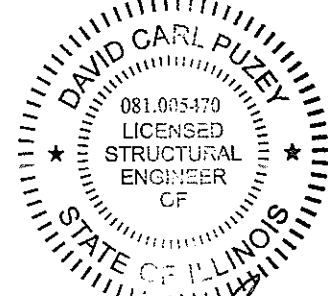
ITEM	UNIT	TOTAL
PROTECTIVE SHIELD	SO YD	410.0
PROTECTIVE COAT	SO YD	913.0
FLOOR DRAINS	EACH	4.0
BRIDGE DECK GROOVING	SO YD	873.0
HOT-MIX ASPHALT SURFACE REMOVAL (DECK)	SO YD	919.0
BRIDGE DECK LATEX CONCRETE OVERLAY 2 3/4"	SO YD	913.0
BRIDGE DECK SCARIFICATION 3/4"	SO YD	913.0
STRUCTURAL REPAIR OF CONCRETE $\leq 5''$	SO FT	10.4
DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SO YD	4.0
DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SO YD	104.8
SILICONE JOINT SEALER, 1"	FOOT	96.0
SILICONE JOINT SEALER, 1 1/2"	FOOT	192.0
POLYMER CONCRETE	CU FT	19.0



ELEVATION VIEW



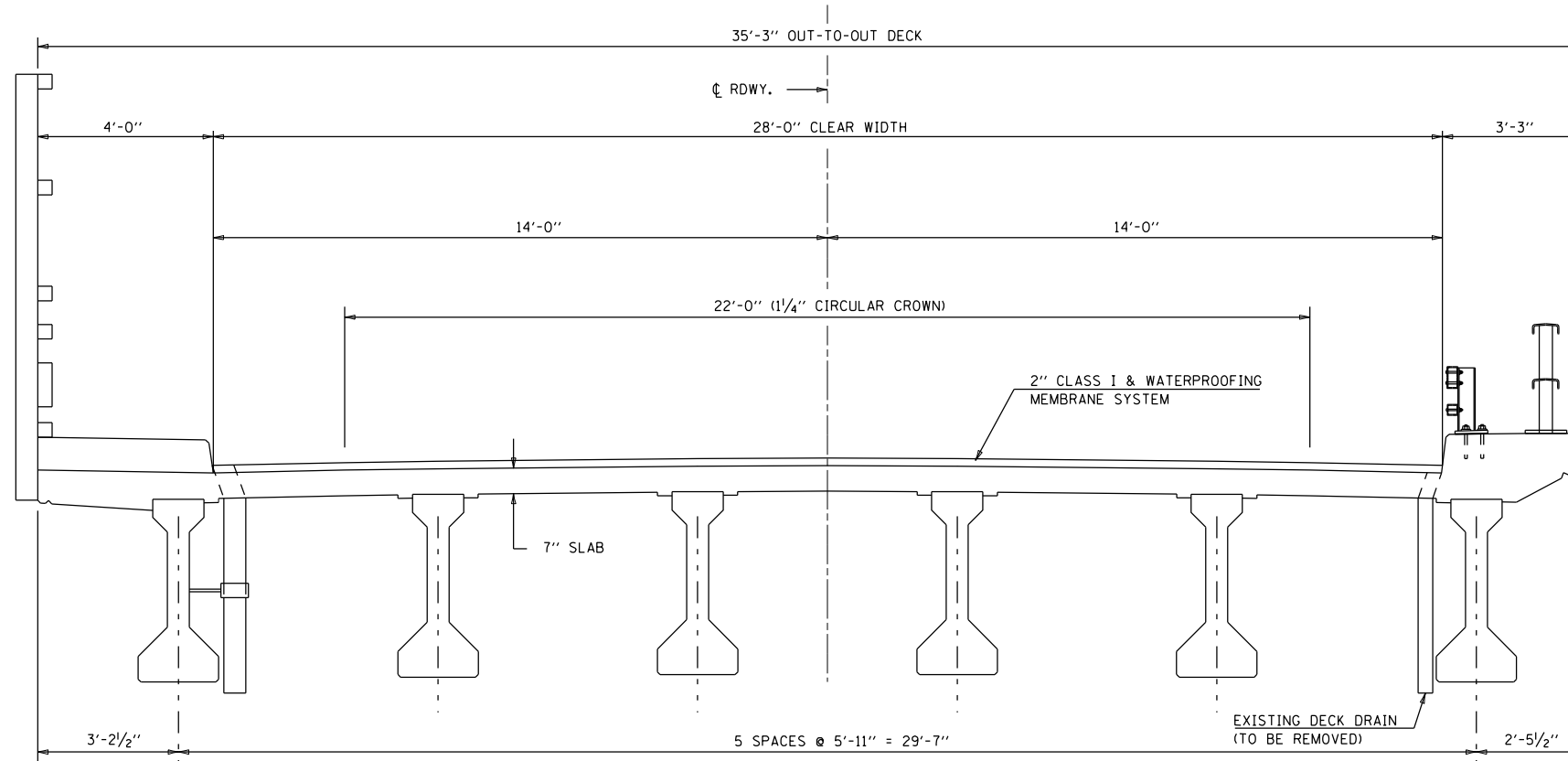
PLAN VIEW



David Carl Puzey 12/4/19 Expires 11/30/20

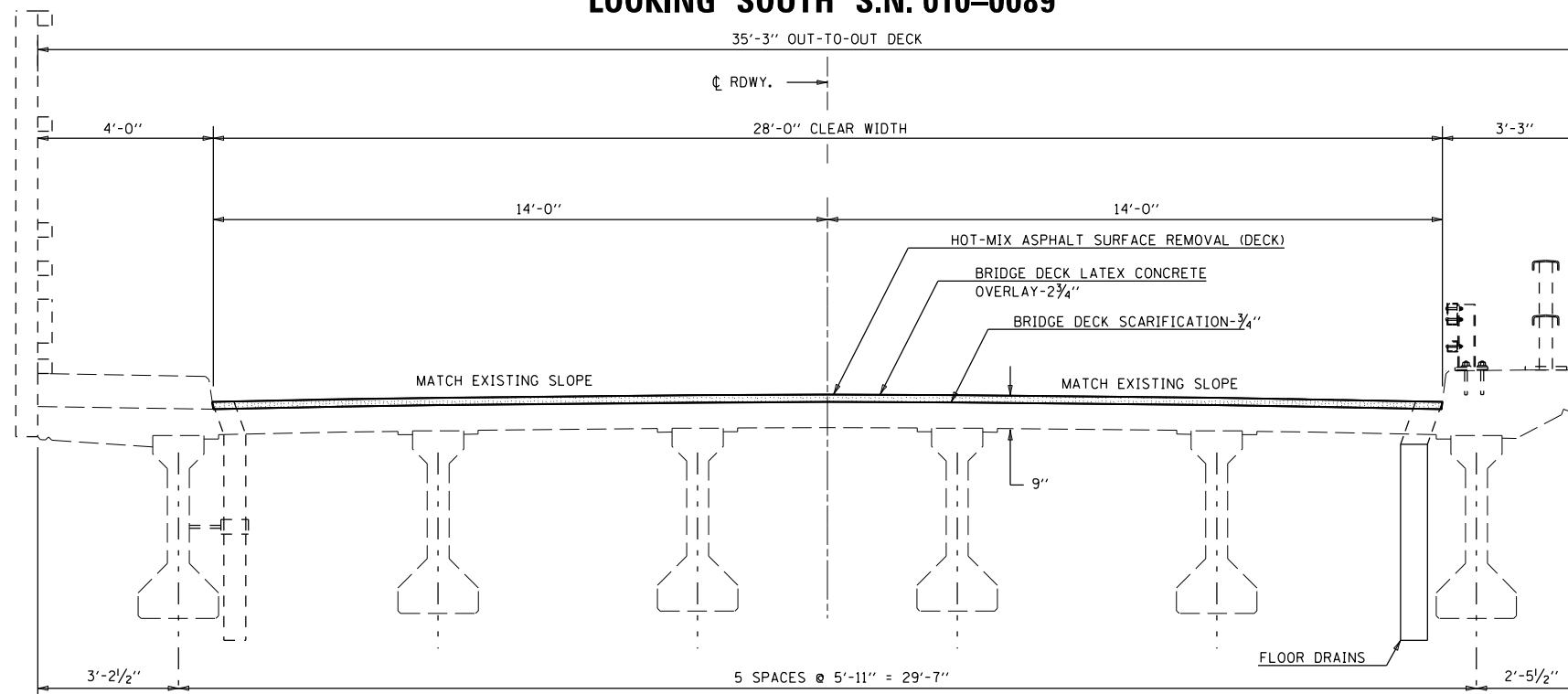
EXISTING DECK CROSS SECTION

LOOKING SOUTH S.N. 010-0089



PROPOSED DECK CROSS SECTION

LOOKING SOUTH S.N. 010-0089



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	PLOT DATE = 5/1/2019	DATE - 021318	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

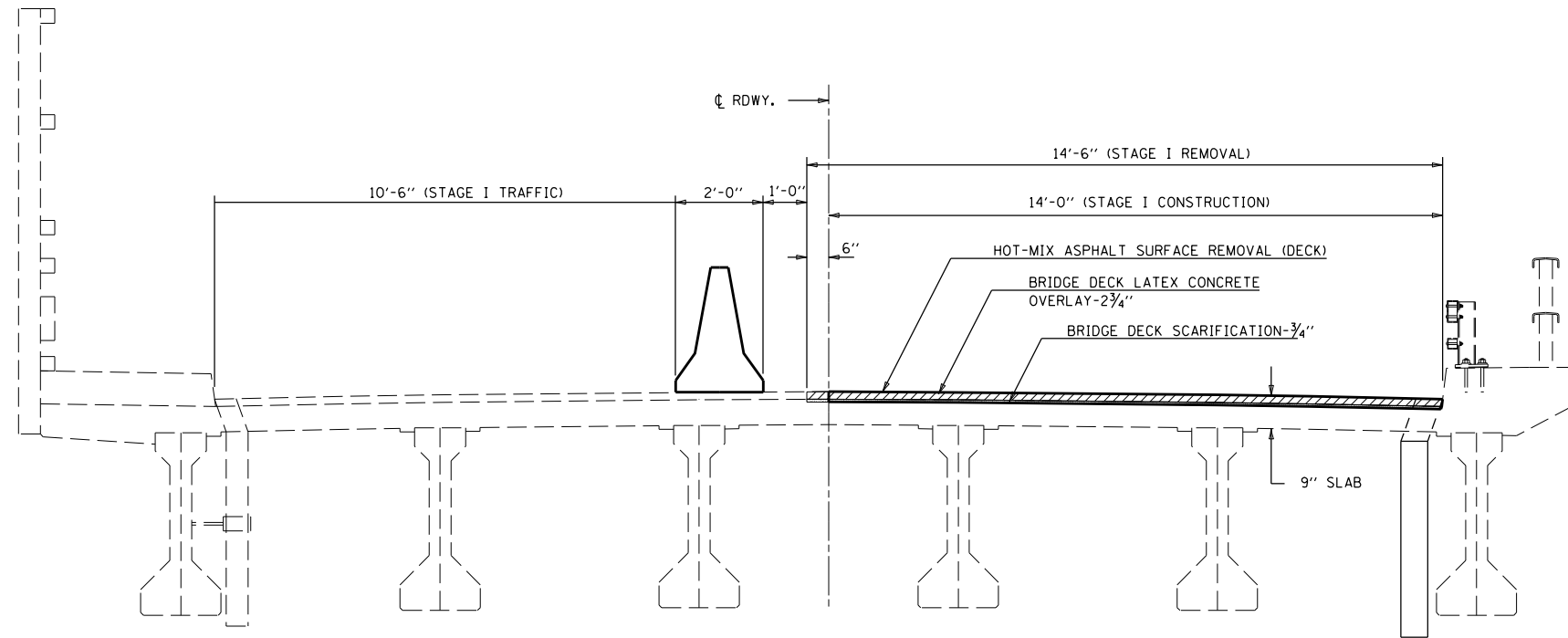
DECK CROSS SECTIONS
S.N. 010-0089

SCALE: NONE SHEET NO. 2 OF 14 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-6.7)BDR	CHAMPAIGN	99	47
CONTRACT NO. 70B92				
ILLINOIS FED. AID PROJECT				

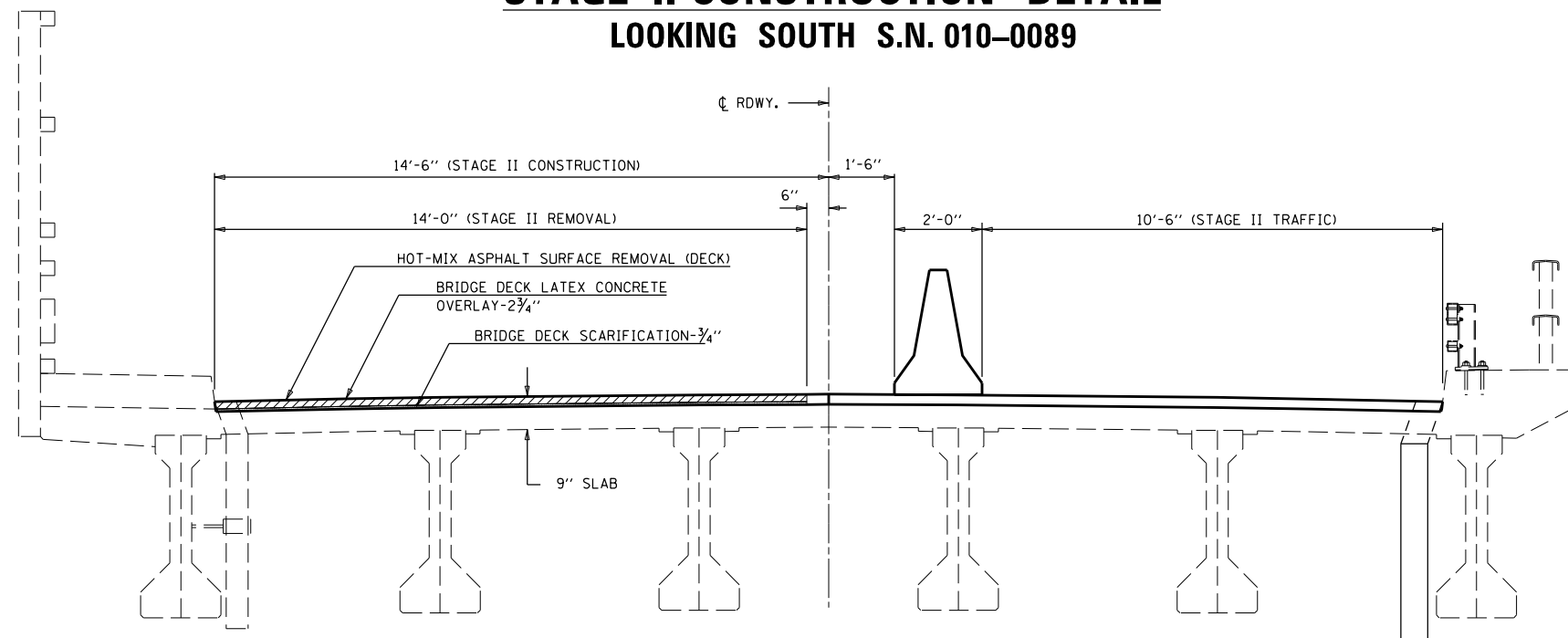
STAGE I CONSTRUCTION DETAIL

LOOKING SOUTH S.N. 010-0089



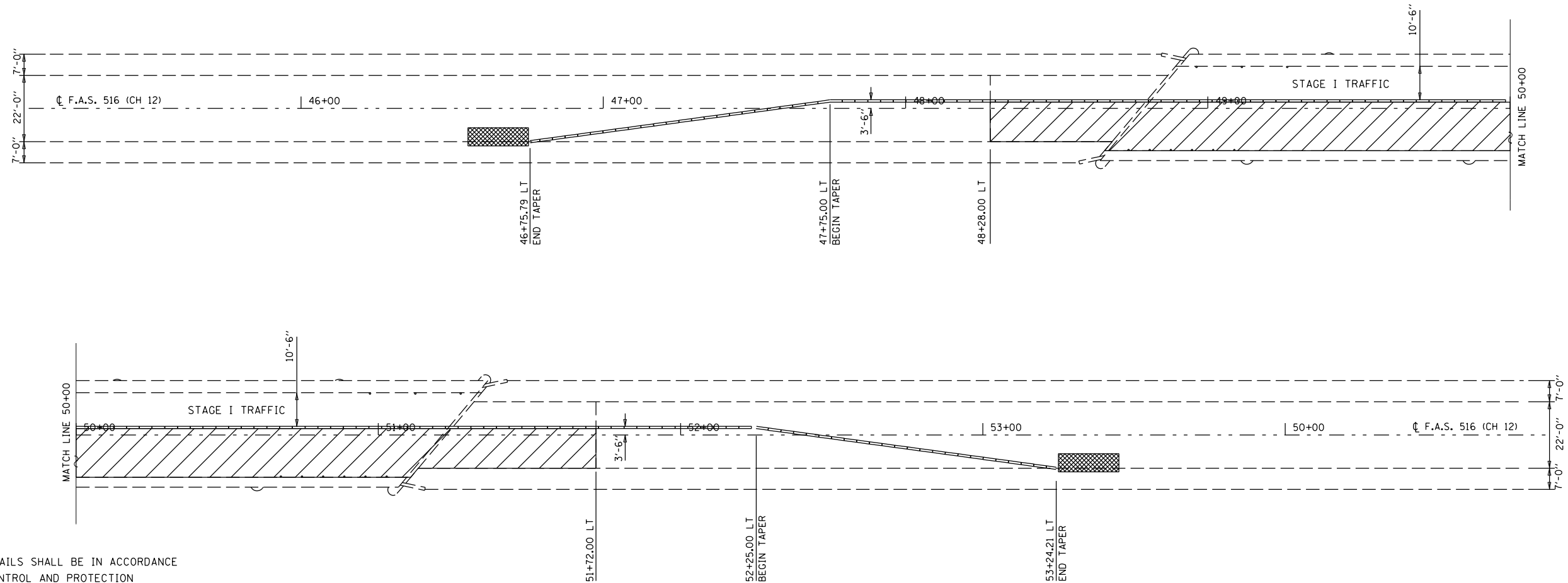
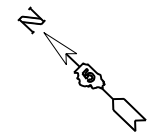
STAGE II CONSTRUCTION DETAIL

LOOKING SOUTH S.N. 010-0089



FILE NAME =	USER NAME = shererjm	DESIGNED - JMS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGED CONSTRUCTION DETAIL S.N. 010-0089			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT SCALE = 40.0000' / in.		CHECKED -	REVISED -		CONTRACT NO. 70B92			ILLINOIS FED. AID PROJECT				
PLOT DATE = 5/1/2019		DATE - 021318	REVISED -		SCALE: NONE	SHEET NO. 3 OF 14 SHEETS	STA.	TO STA.				

STAGE I TEMPORARY CONCRETE BARRIER LAYOUT



PLAN NOTES:

ALL STAGING DETAILS SHALL BE IN ACCORDANCE WITH TRAFFIC CONTROL AND PROTECTION STANDARD 701321 AND PAID FOR AT THE CONTRACT UNIT PRICE PER EACH LOCATION.

ALL WORK WITHOUT TEMPORARY CONCRETE BARRIER IN PLACE SHALL BE IN ACCORDANCE WITH TRAFFIC CONTROL AND PROTECTION STANDARDS 701201, 701301 AND 701311.

FOR ADDITIONAL DETAILS ASSOCIATED WITH TEMPORARY CONCRETE BARRIER, SEE HIGHWAY STANDARD 704001.

EXISTING OR TEMPORARY PAVEMENT MARKINGS SHALL BE ON BOTH SIDES OF THE OPEN LANE FROM STOP BAR TO STOP BAR. PAVEMENT MARKINGS THAT CONFLICT WITH STAGED TRAFFIC MARKINGS SHALL BE REMOVED. THIS WORK SHALL BE INCLUDED IN THE COST FOR TRAFFIC CONTROL AND PROTECTION STANDARD 701321.

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

70400100 TEMPORARY CONCRETE BARRIER

	STATION	TO	STATION	FOOT
LT	46+75.79		RT 47+75.00	100.0
LT	47+75.00		LT 52+25.00	450.0
LT	52+25.00		RT 53+24.21	100.0

TOTAL = 650.0

TEMPORARY CONCRETE BARRIER

PROPOSED WORK AREA

IMPACT ATTENUATOR, TEMPORARY, NON-REDIRECTIVE TEST LEVEL 3

BILL OF MATERIALS

ITEM	UNIT	TOTAL
TEMPORARY CONCRETE BARRIER	FOOT	650.0
IMPACT ATTENUATOR TEMPORARY NON-REDIRECTIVE TEST LEVEL 3	EACH	2.0

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PLOT DATE = 11/25/2019	DATE - 021318		REVISED -

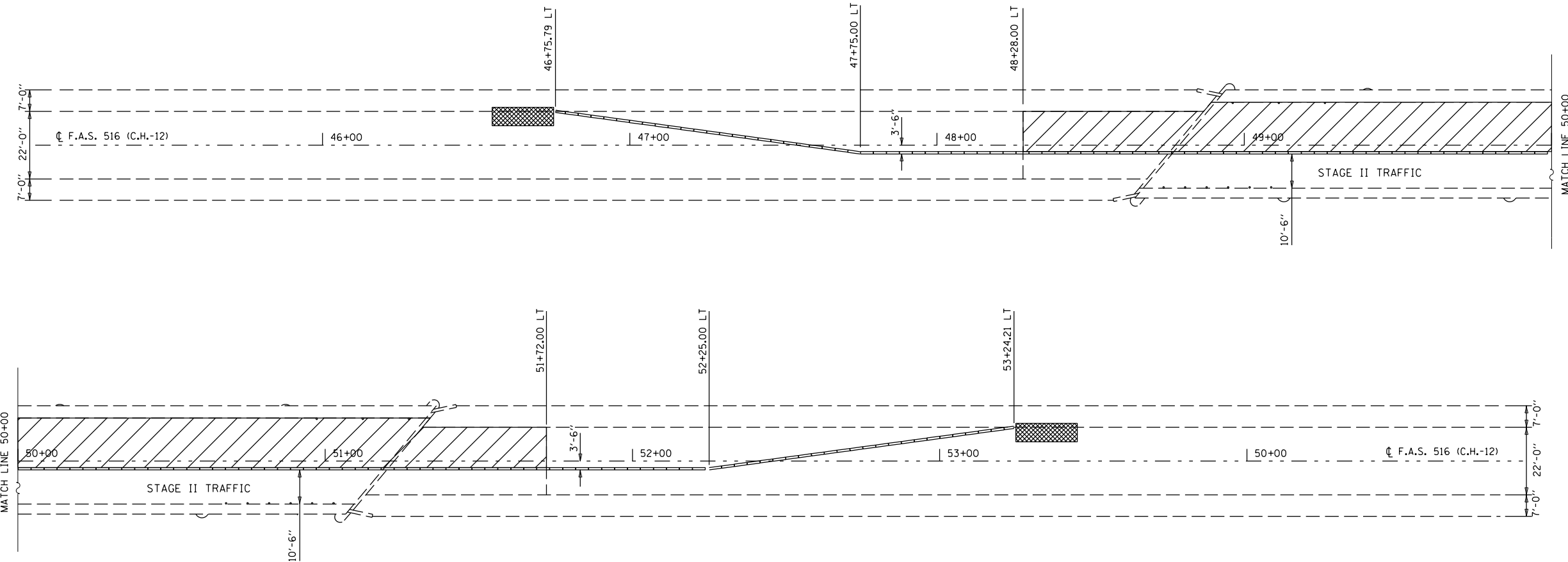
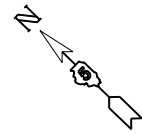
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGED CONSTRUCTION DETAIL
S.N. 010-0089**

SCALE: NONE SHEET NO. 4 OF 14 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-6.7)BDR	CHAMPAIGN	99	49
CONTRACT NO. 70B92			ILLINOIS FED. AID PROJECT	

STAGE II TEMPORARY CONCRETE BARRIER LAYOUT



ALL STAGING DETAILS SHALL BE IN ACCORDANCE WITH TRAFFIC CONTROL AND PROTECTION STANDARD 701321 AND PAID FOR AT THE CONTRACT UNIT PRICE PER EACH LOCATION.

ALL WORK WITHOUT TEMPORARY CONCRETE BARRIER IN PLACE SHALL BE IN ACCORDANCE WITH TRAFFIC CONTROL AND PROTECTION STANDARDS 701201, 701301 AND 701311.

FOR ADDITIONAL DETAILS ASSOCIATED WITH TEMPORARY CONCRETE BARRIER, SEE HIGHWAY STANDARD 704001.

EXISTING OR TEMPORARY PAVEMENT MARKINGS SHALL BE ON BOTH SIDES OF THE OPEN LANE FROM STOP BAR TO STOP BAR. PAVEMENT MARKINGS THAT CONFLICT WITH STAGED TRAFFIC MARKINGS SHALL BE REMOVED. THIS WORK SHALL BE INCLUDED IN THE COST FOR TRAFFIC CONTROL AND PROTECTION STANDARD 701321.

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

70400200 RELOCATE TEMPORARY CONCRETE BARRIER

	STATION	TO	STATION	FOOT
LT	46+75.79		RT 47+75.00	100.0
LT	47+75.00		LT 52+25.00	450.0
LT	52+25.00		RT 53+24.21	100.0

TOTAL = 650.0

TEMPORARY CONCRETE BARRIER

PROPOSED WORK AREA

IMPACT ATTENUATOR, TEMPORARY, NON-REDIRECTIVE TEST LEVEL 3

BILL OF MATERIALS

ITEM	UNIT	TOTAL
RELOCATE TEMP CONCRETE BARRIER	FOOT	650.0
REL IMPACT ATTENUATOR TEMPORARY NON-REDIRECTIVE TEST LEVEL 3	EACH	2.0

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PLOT DATE = 11/25/2019			

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGED CONSTRUCTION DETAIL
S.N. 010-0089**

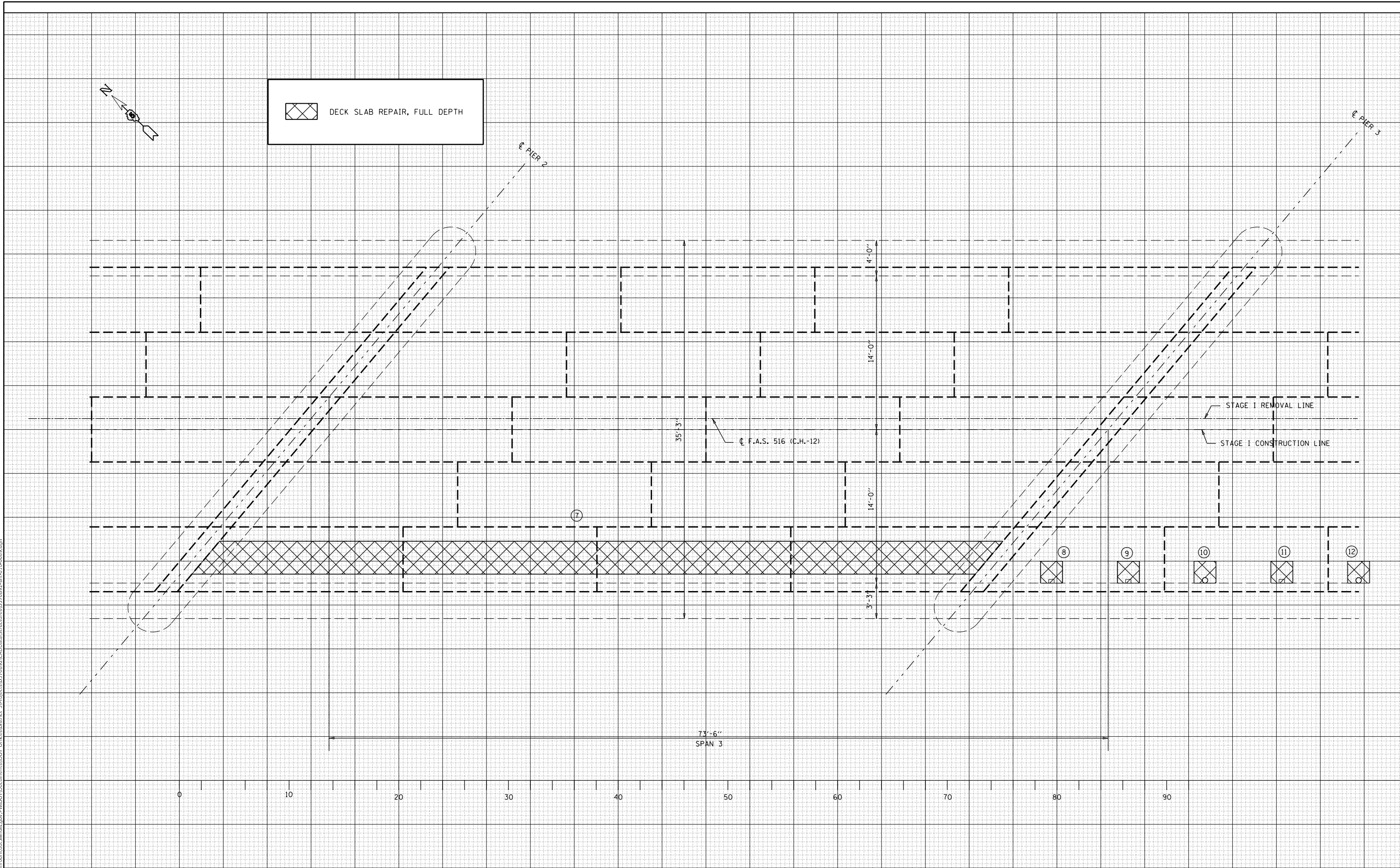
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-6.7)BDR	CHAMPAIGN	99	50
CONTRACT NO. 70B92				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY NO.	
SURVEYED PLOTTED AREAS CHECKED	
NOTE BOOK NO.	
TEMPLATE AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY NO.	
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TEMPLATE AREAS CHECKED	

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	DATE - 030518	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**DETAIL OF DECK REPAIRS
 S.N. 010-0089**

SCALE: 1" = 2' SHEET 8 OF 14 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-6.7)BDR	CHAMPAIGN	99	53
CONTRACT NO. 70B92				
ILLINOIS FED. AID PROJECT				

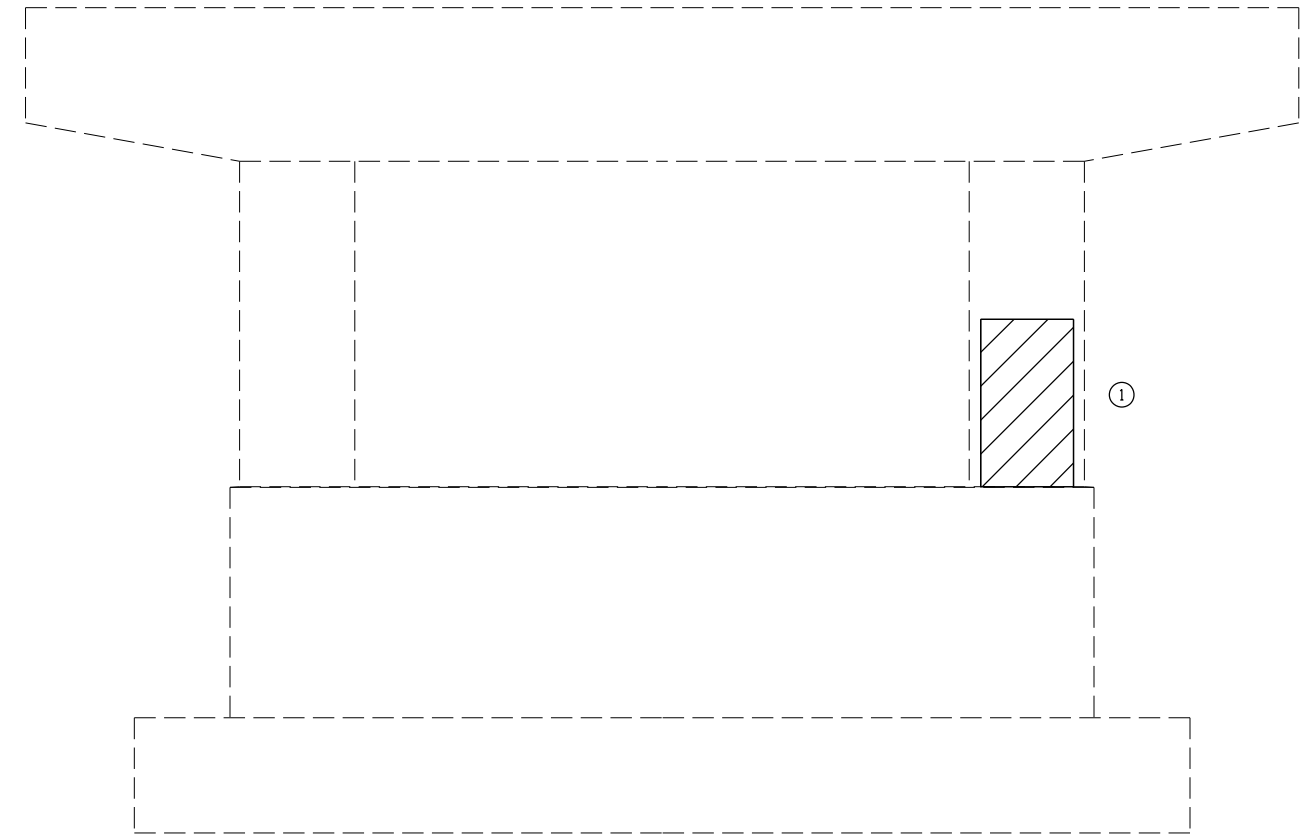
SCHEDULE OF BRIDGE DECK PATCHING

PATCH NO.	SIZE		DECK SLAB REPAIR (FULL DEPTH T1)	DECK SLAB REPAIR (FULL DEPTH T2)
	LENGTH (FT)	WIDTH (FT)	SQ YD	SQ YD
1	2	2	0.4	
* 2	2	2	0.4	
* 3	2	2	0.4	
4	2	2	0.4	
5	14.3	5		7.9
6	72.5	5		40.3
7	72.5	3		24.2
8	2	2	0.4	
9	2	2	0.4	
* 10	2	2	0.4	
11	2	2	0.4	
* 12	2	2	0.4	
13	2	2	0.4	

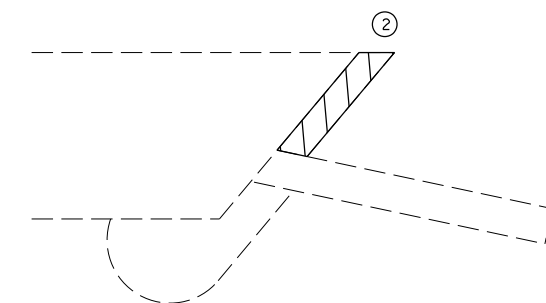
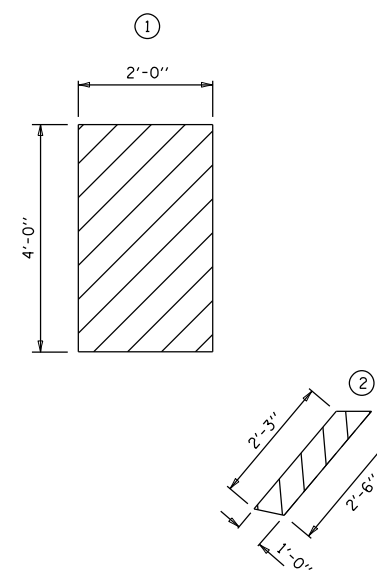
SUB-TOTAL = 4.0 72.4

TOTAL = 4.0 104.8

DETAIL OF STRUCTURAL CONCRETE REPAIR



ELEVATION VIEW
PIER 3 (LOOKING NORTH)



PLAN VIEW
SOUTHWEST ABUTMENT

NOTES:

AREA OF DECK SLAB REPAIR HAVE BEEN ESTIMATED FROM MARCH 1ST, 2018 DECK SURVEY. THE ACTUAL QUANTITY AND LOCATIONS SHALL BE DETERMINED BY THE ENGINEER. THE ENGINEER SHALL SHOW THE ACTUAL LOCATIONS OF THE DECK REPAIRS ON DECK PATCHING DETAIL SHEETS.

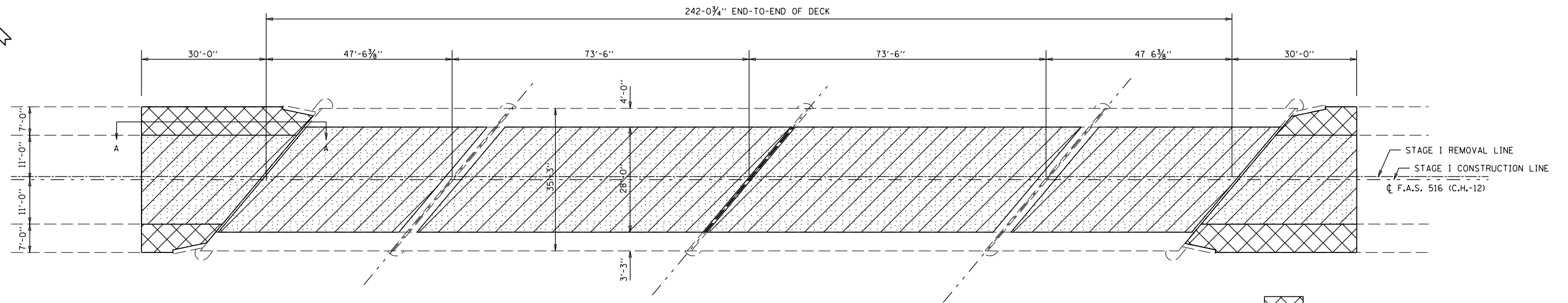
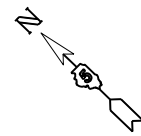
* NEW FLOOR DRAINS

BILL OF MATERIALS

ITEM	UNIT	TOTAL
DECK SLAB REPAIR, FD (TYPE I)	SQ YD	4.0
DECK SLAB REPAIR, FD (TYPE II)	SQ YD	104.8

BILL OF MATERIALS

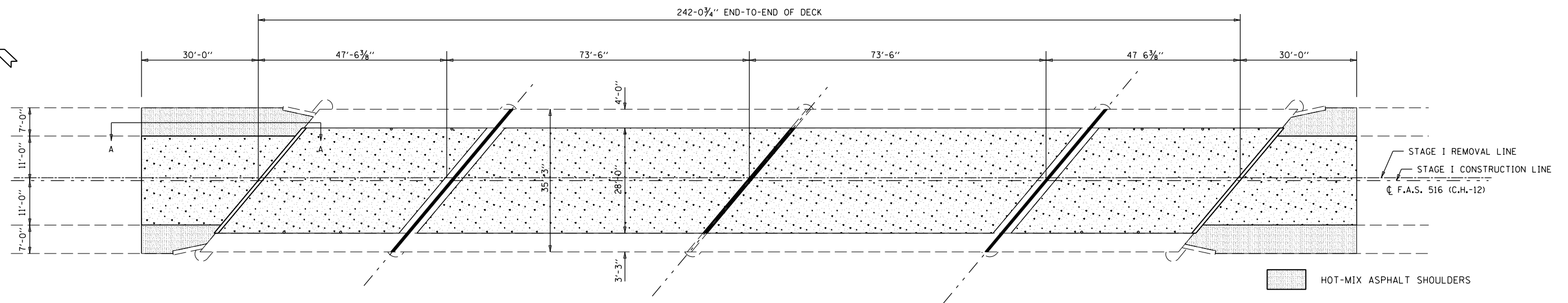
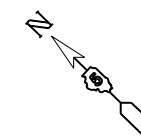
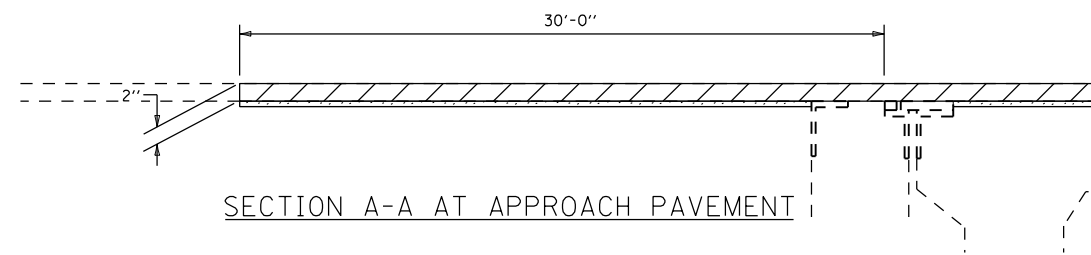
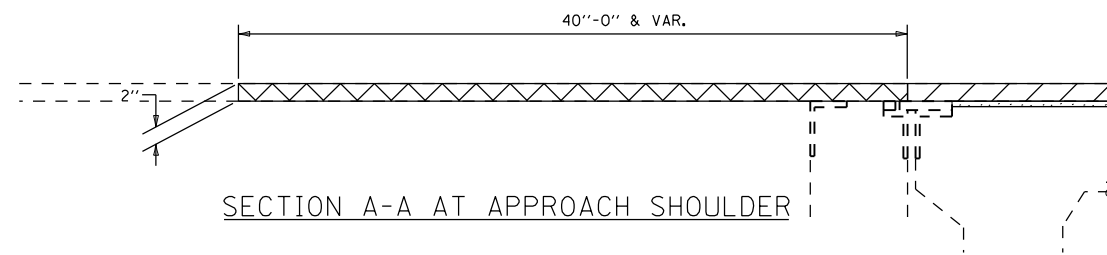
ITEM	UNIT	TOTAL
STRUCTURAL REPAIR OF CONCRETE $\frac{1}{2}$ 5"	SQ FT	10.4



- HOT-MIX SURFACE REMOVAL 2"
- HMA SURFACE REMOVAL (DECK)
- BRIDGE DECK SCARIFICATION - 3/4"

BILL OF MATERIALS

ITEM	UNIT	TOTAL
BRIDGE DECK SCARIFICATION - 3/4"	SQ YD	913.0
HMA SURFACE REMOVAL 2"	SQ YD	86.0
HMA SURFACE REMOVAL (DECK)	SQ YD	919.0



- HOT-MIX ASPHALT SHOULDERS
- BRIDGE DECK LATEX CONCRETE OVERLAY, 2 3/4"
- POLYMER CONCRETE

BILL OF MATERIALS

ITEM	UNIT	TOTAL
HOT-MIX ASPHALT SHOULDERS	TON	10.0
BRIDGE DECK LATEX CONC OVLY, 2 3/4"	SQ YD	913.0
BRIDGE DECK GROOVING	SQ YD	873.0

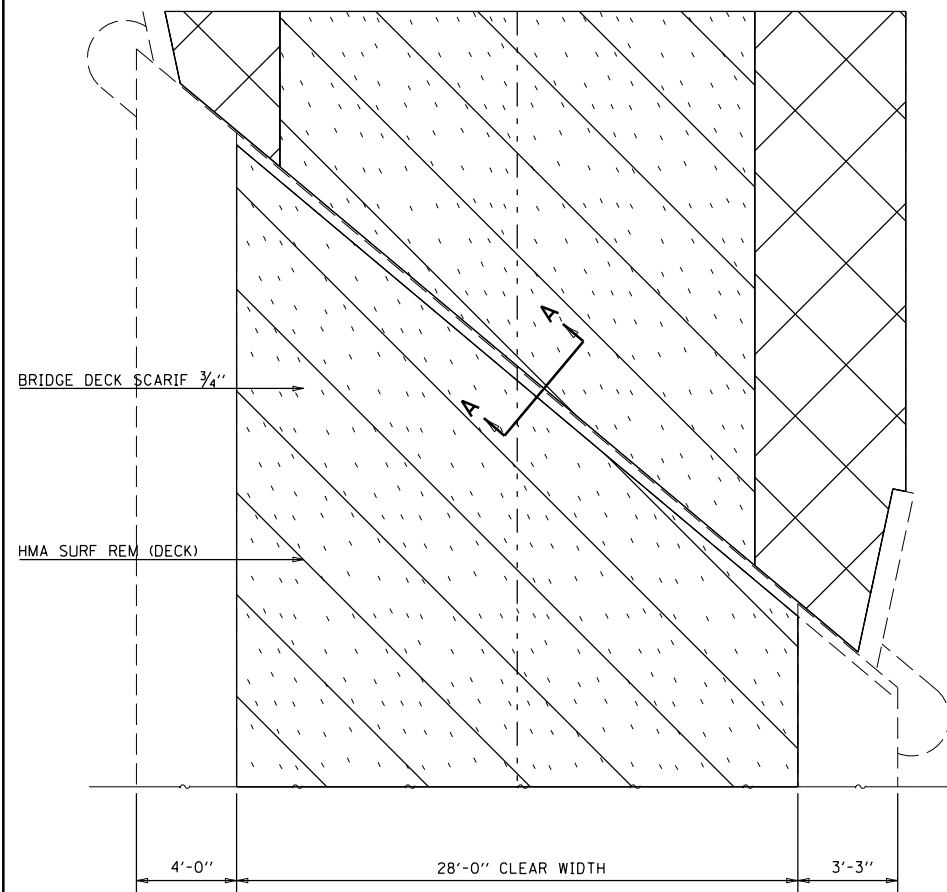
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	PLOT DATE = 11/25/2019	DATE - 030518	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

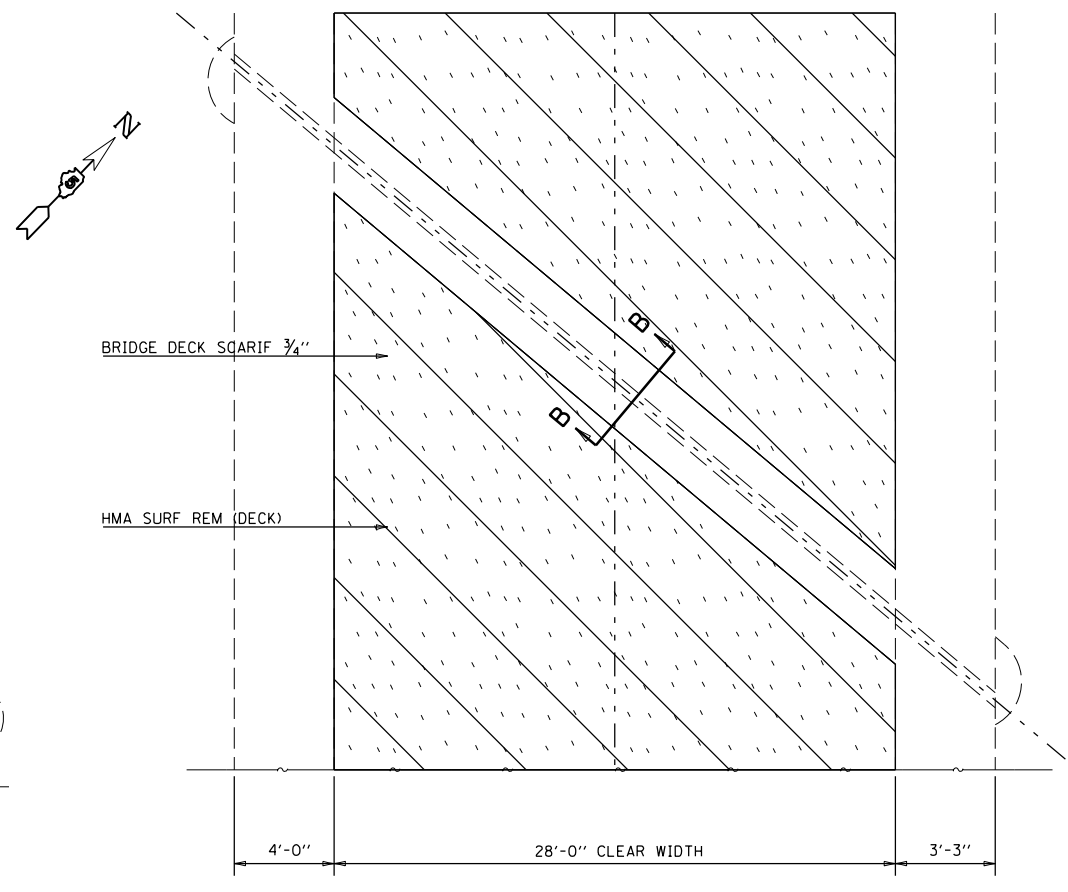
**WEARING SURFACE DETAIL
S.N. 010-0089**

SCALE: NONE SHEET NO. 11 OF 14 SHEETS STA. TO STA.

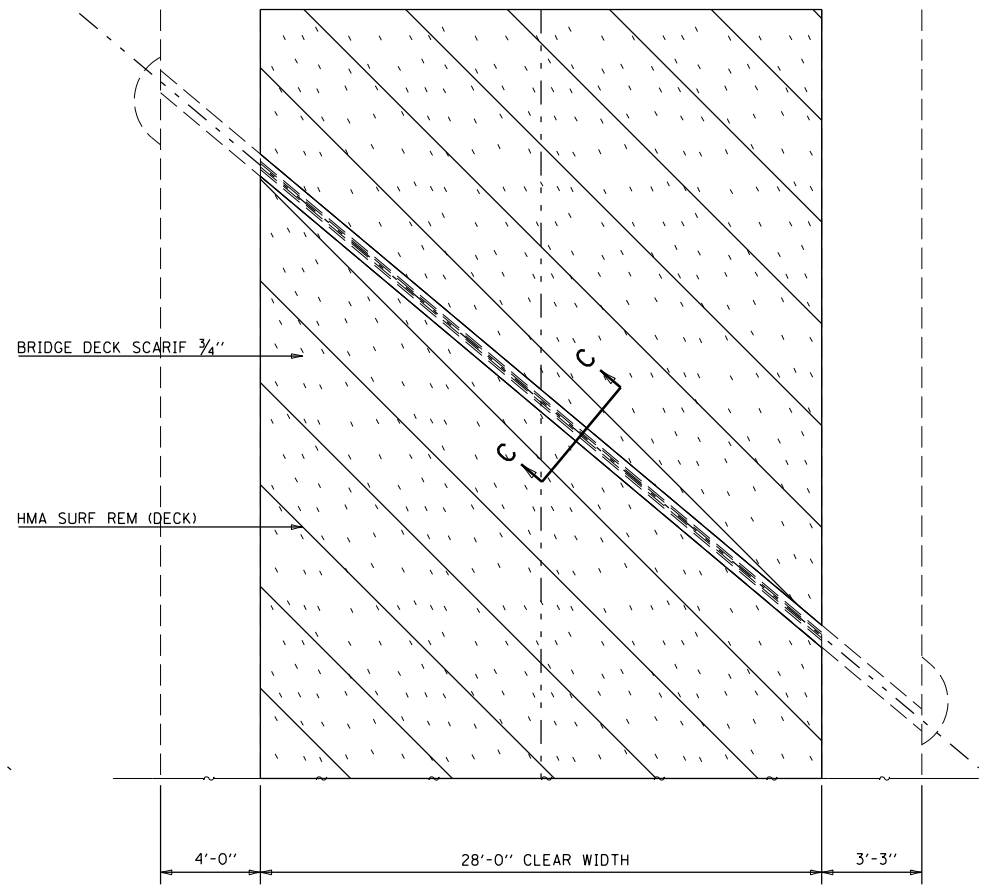
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-6.7)BDR	CHAMPAIGN	99	56
			CONTRACT NO. 70B92	
ILLINOIS FED. AID PROJECT				



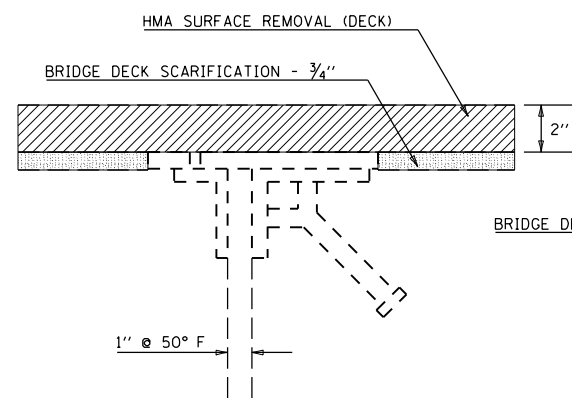
PLAN OF REMOVAL AT ABUTMENTS
(SOUTH ABUTMENT SHOWN, NORTH ABUTMENT SIMILAR)



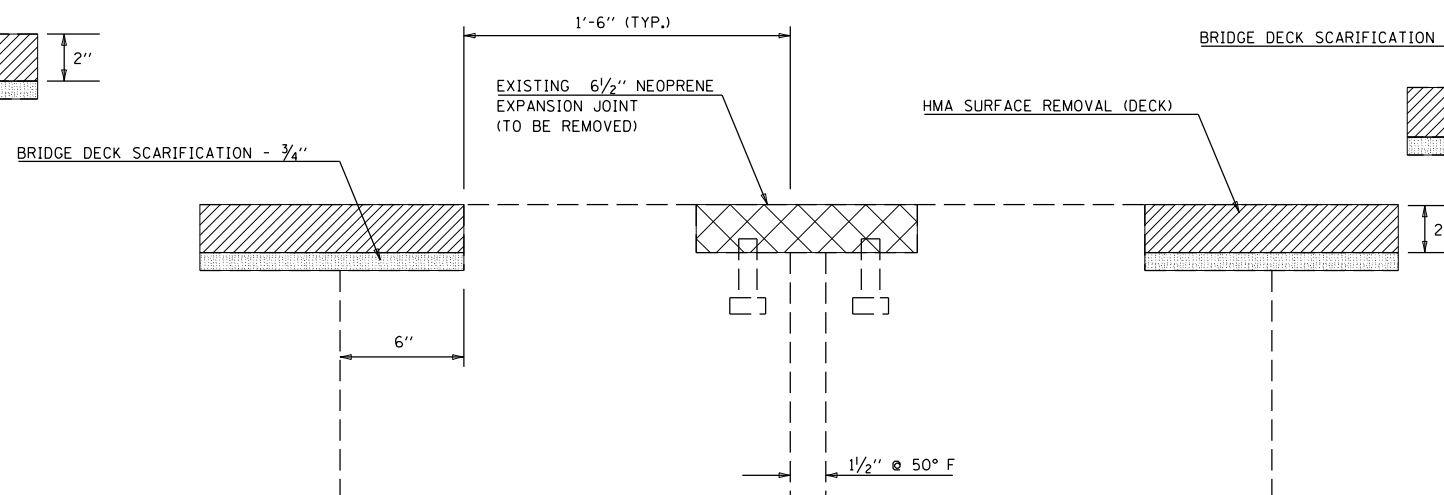
PLAN OF REMOVAL AT PIERS 1 & 3



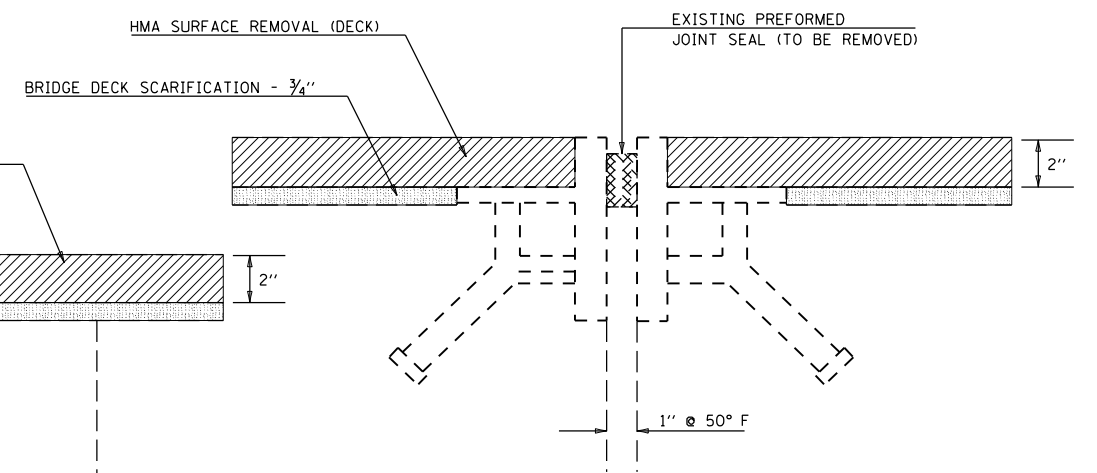
PLAN OF REMOVAL AT PIER 2



SECTION A-A AT ABUTMENTS



SECTION B-B AT PIERS 1 & 3



SECTION C-C AT PIER 2

- HOT-MIX SURFACE REMOVAL 2"
- HMA SURFACE REMOVAL (DECK)
- BRIDGE DECK SCARIFICATION - 3/4"

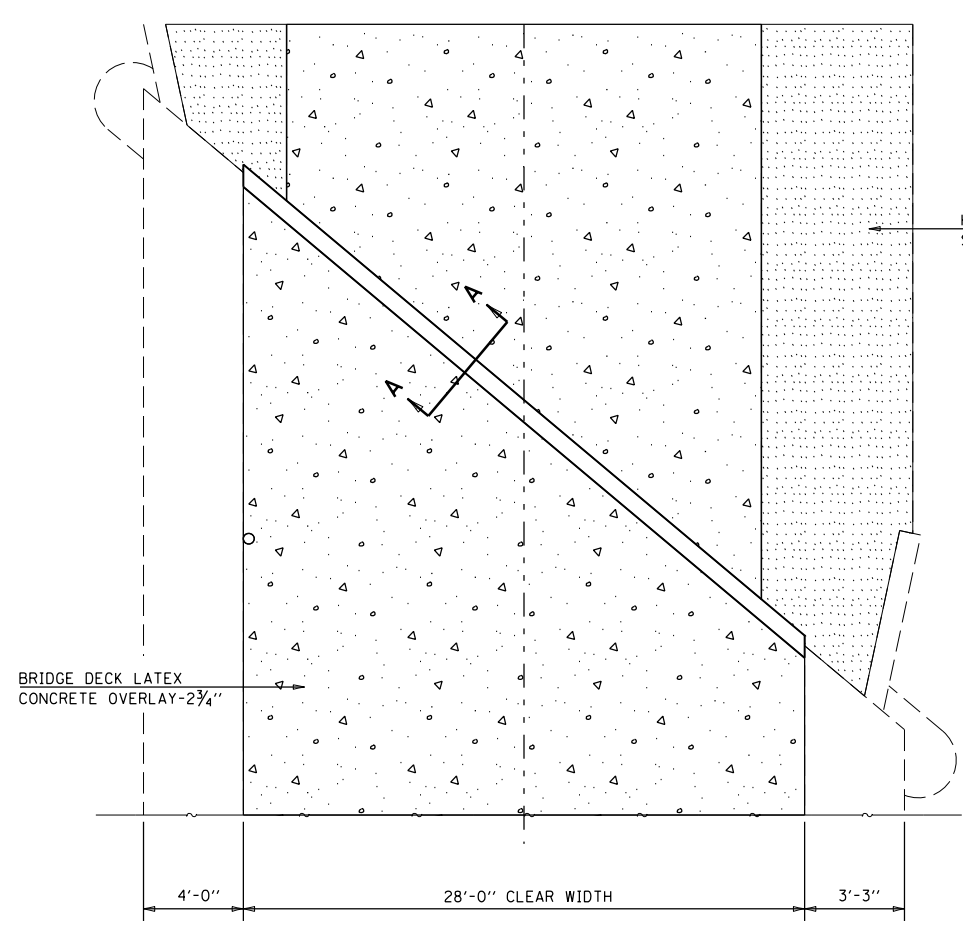
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PLOT SCALE = 40.0000' / in.		CHECKED -	REVISED -
PLOT DATE = 5/1/2019		DATE - 030518	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

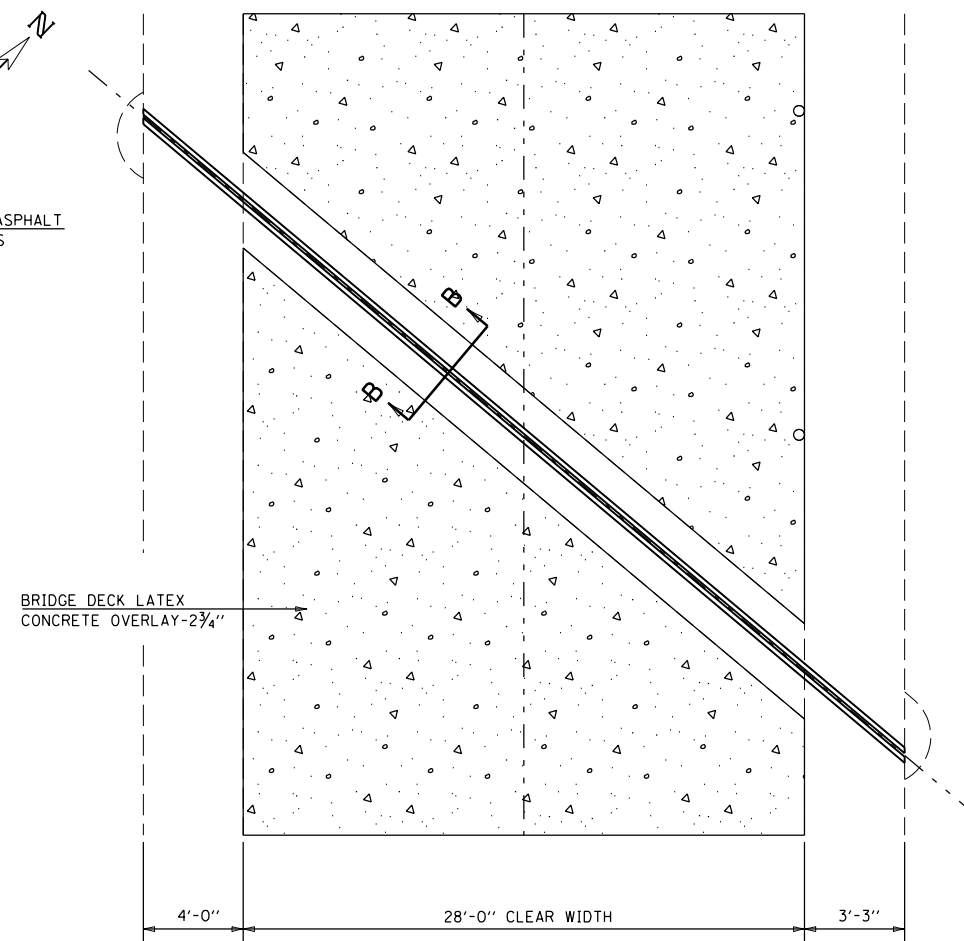
DETAIL OF EXPANSION JOINTS
S.N. 010-0089

SCALE: NONE SHEET NO. 12 OF 14 SHEETS STA. TO STA.

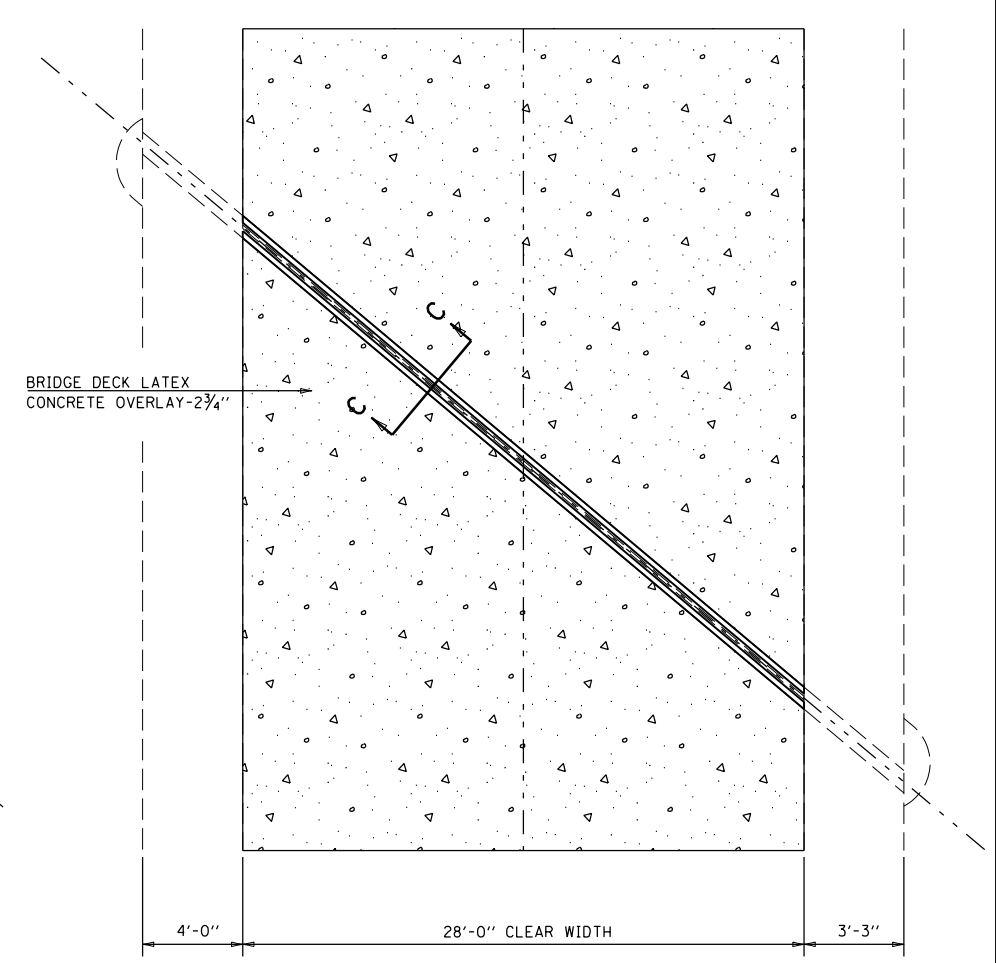
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-6.7)BDR	CHAMPAIGN	99	57
CONTRACT NO. 70B92				
ILLINOIS FED. AID PROJECT				



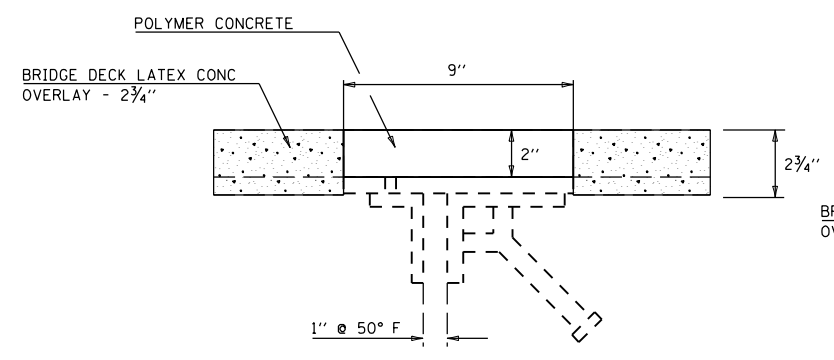
PLAN OF CONSTRUCTION AT ABUTMENTS
(SOUTH ABUTMENT SHOWN, NORTH ABUTMENT SIMILAR)



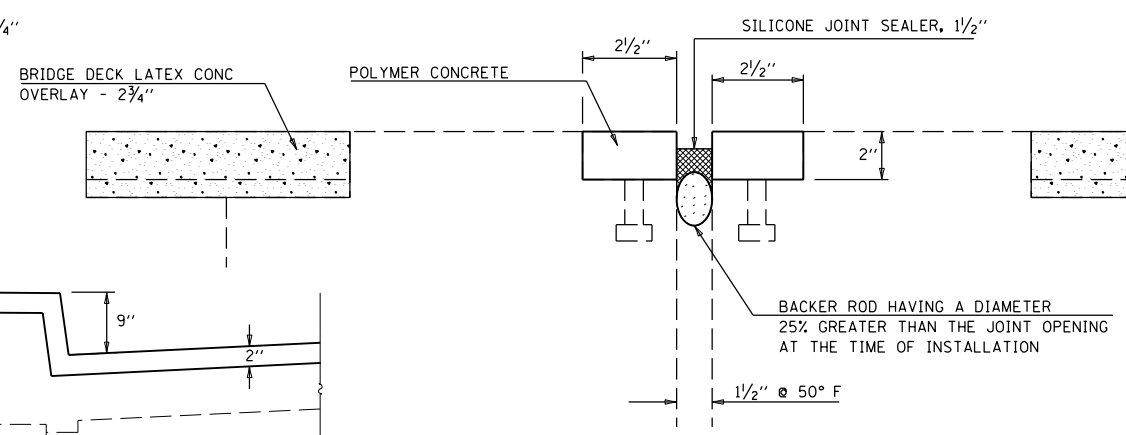
PLAN OF CONSTRUCTION AT PIERS 1 & 3



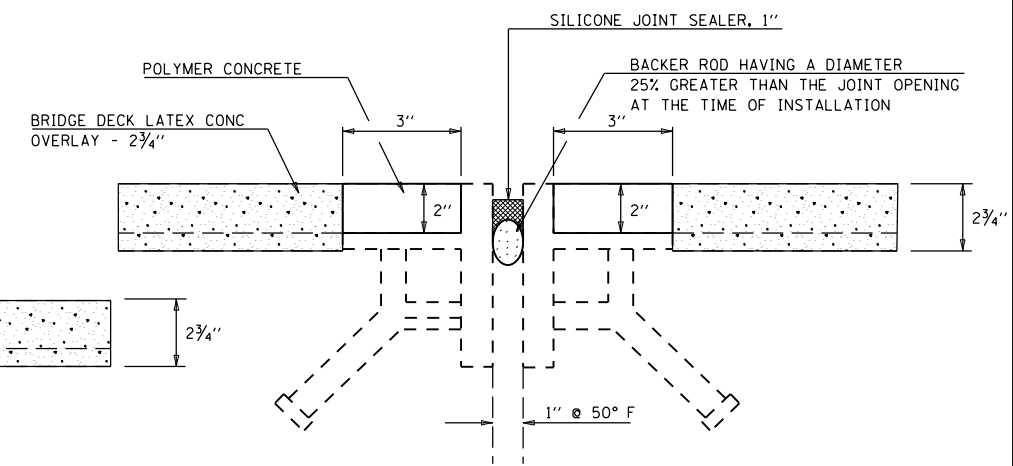
PLAN OF CONSTRUCTION AT PIER 2



SECTION A-A AT ABUTMENTS

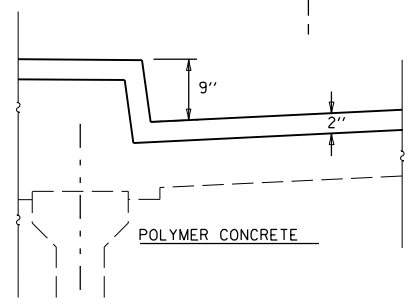


SECTION B-B AT PIERS 1 & 3



SECTION C-C AT PIER 2

- HOT-MIX ASPHALT SHOULDERS
- BRIDGE DECK LATEX CONCRETE OVERLAY, 2 3/4"
- POLYMER CONCRETE



DETAIL AT CURB
PIERS 1, 2 & 3

BILL OF MATERIALS

ITEM	UNIT	TOTAL
POLYMER CONCRETE	SQ FT	19.0
SILICONE JOINT SEALER, 1"	FOOT	96.0
SILICONE JOINT SEALER, 1 1/2"	FOOT	192.0

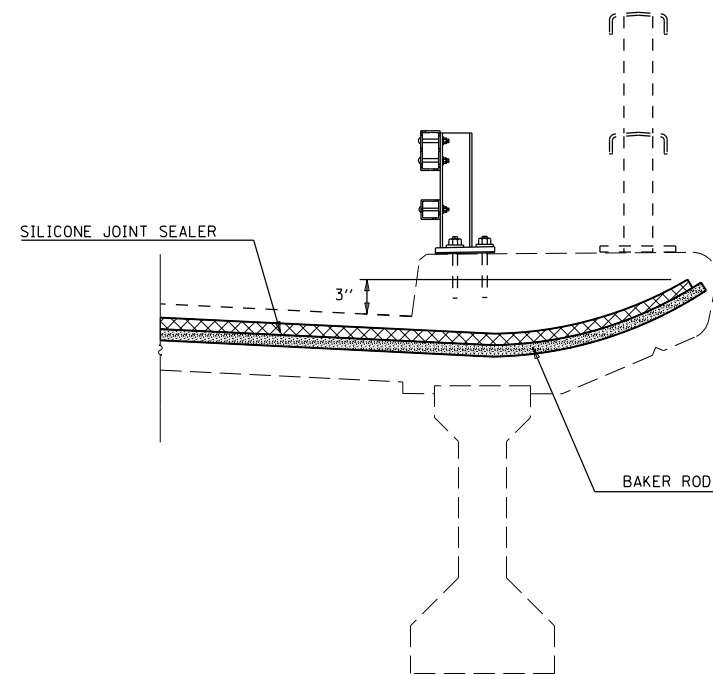
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PLOT SCALE = 40.0000' / in.		CHECKED -	REVISED -
PLOT DATE = 5/1/2019		DATE - 030518	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

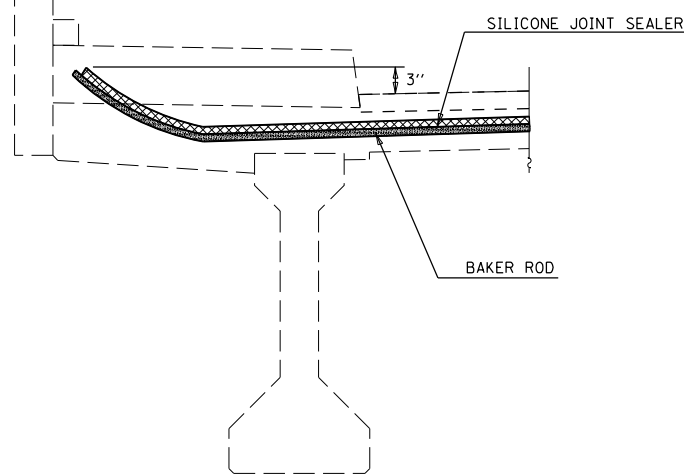
DETAILS OF EXPANSION JOINTS
S.N. 010-0089

SCALE: NONE SHEET NO. 13 OF 14 SHEETS STA. TO STA.

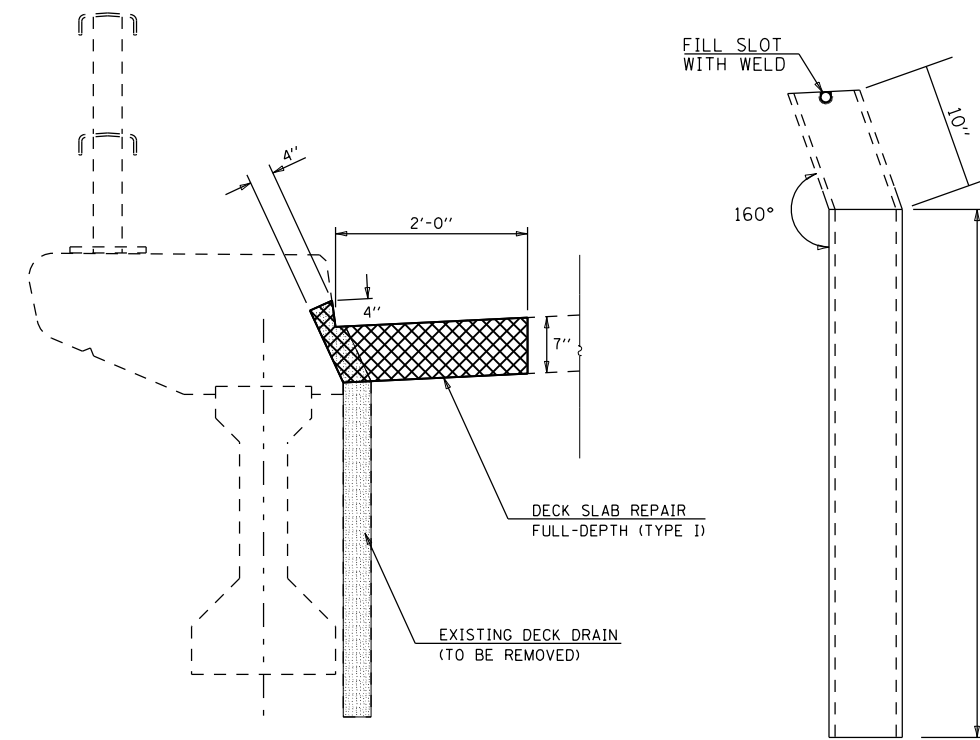
F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-6.7)BDR	CHAMPAIGN	99	58
CONTRACT NO. 70B92				
ILLINOIS FED. AID PROJECT				



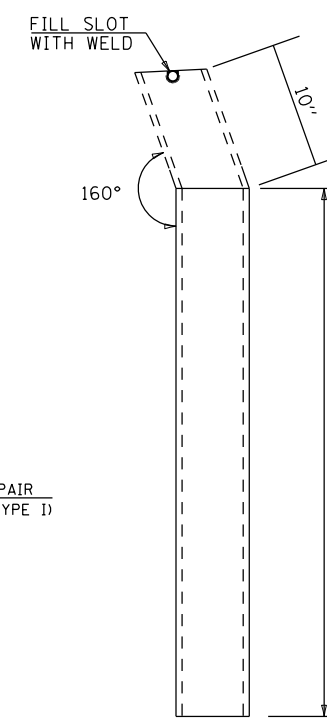
SECTION AT PARAPET
SILICONE JOINT SEALER
PIERS 1, 2 & 3



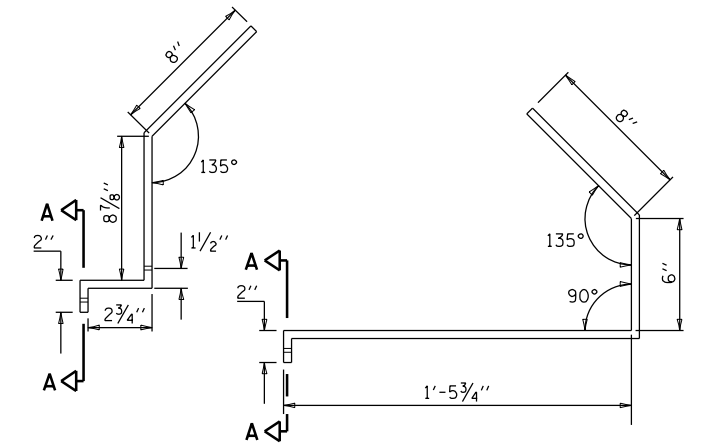
SECTION AT PARAPET WALKWAY
SILICONE JOINT SEALER
PIERS 1, 2 & 3



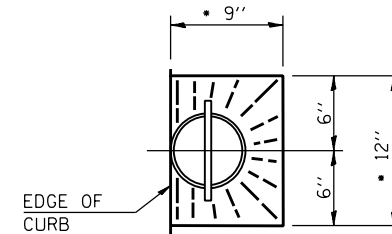
SECTION AT EXISTING DECK DRAIN



FLOOR DRAIN



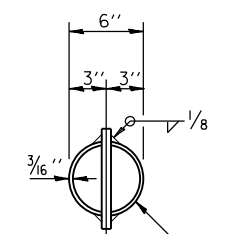
WIND BRACE DETAILS



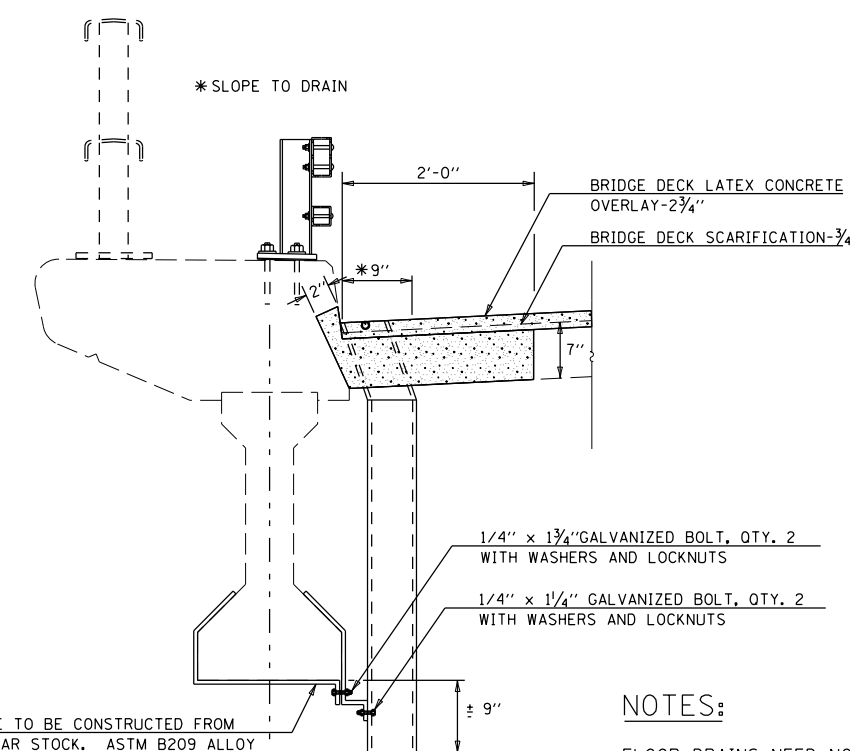
TOP PLAN

• SLOPE TO DRAIN

6" O.D. ALUMINUM TUBE ALLOY
6061-T6, 6" Ø FIBERGLASS
OR 6" Ø PVC



TOP PLAN
(ALUMINUM TUBE SHOWN)



SECTION PROPOSED FLOOR DRAIN

WIND BRACE TO BE CONSTRUCTED FROM
1/2" X 2" BAR STOCK, ASTM B209 ALLOY
6061-T6 TO DIMENSIONS AS SHOWN

NOTES:

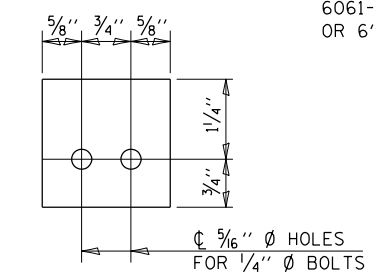
FLOOR DRAINS NEED NOT BE PAINTED.

FIBERGLASS PIPE SHALL CONFORM TO ASTM D 2996,
WITH SHORT-TIME RUPTURE STRENGTH HOOP TENSILE
STRESS OF 30,000 P.S.I. MINIMUM.

ALL DIMENSIONS SHALL BE FIELD VERIFIED BY THE
CONTRACTOR PRIOR TO ORDERING OF MATERIALS.

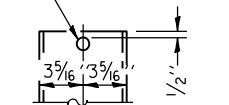
COST OF REMOVAL OF EXISTING DRAINS IS INCLUDED
IN DECK SLAB REPAIR.

COST OF WIND BRACE INCLUDED IN FLOOR DRAINS.



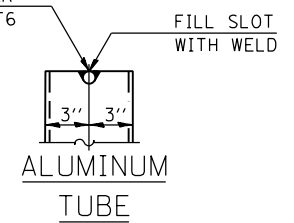
SECTION A-A

1/2" Ø x 8" FIBERGLASS
REINFORCED PLASTIC REBAR



FIBERGLASS/ PVC
PIPE

1/2" Ø x 8" ALUMINUM BAR
ASTM B 211 ALLOY 6061-T6



ALUMINUM
TUBE

BILL OF MATERIALS

ITEM	UNIT	TOTAL
FLOOR DRAINS	EACH	4.0

FILE NAME =	USER NAME = shererjm	DESIGNED - JMS	REVISED -
pw:\planroom.dot\illinois.gov\PIDOT\Documents\IDOT Offices\District 5\Projects\057089\BDR\to\Struct\MSD570892-sht-010-008		DRAWN - JMS	REVISED -
PLOT SCALE = 40.0000' / in.		CHECKED -	REVISED -
PLOT DATE = 11/25/2019		DATE - 030518	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAILS OF JOINTS/FLOOR DRAINS
S.N. 010-0089

SCALE: NONE SHEET NO. 14 OF 14 SHEETS STA. TO STA.

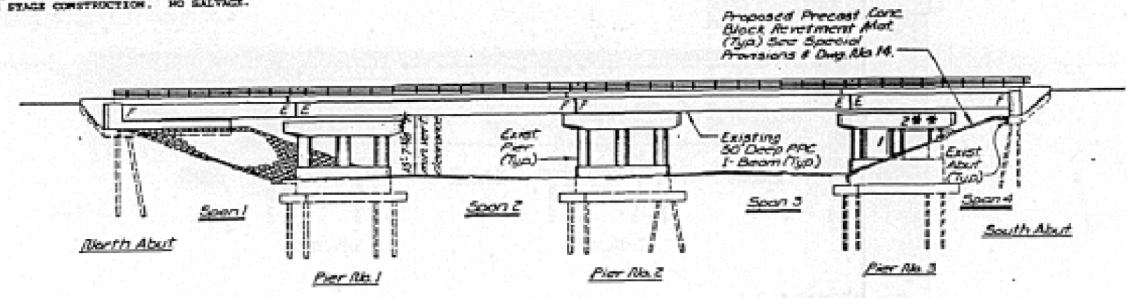
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-6.7)BDR	CHAMPAIGN	99	59
				CONTRACT NO. 70B92
ILLINOIS FED. AID PROJECT				

NOTE: STRUCTURE NO. 010-0089 WAS BUILT IN 1955 AS SA-13 OVER FAI-5, SECTION 10-7HB-1. REPAIRS PERFORMED IN 1977 INCLUDED DECK PAINTING, EXPANSION DEVICE RECONSTRUCTION, INSTALLATION OF WATERPROOFING MEMBRANE SYSTEM AND BITUMINOUS OVERLAYS. THE STRUCTURE CONSISTS OF A FOUR SPAN PRECAST I-BEAM AND REINFORCED CONCRETE DECK SUPERSTRUCTURE WITH MULTIPLE COLUMN PIERS AND PILE BENT SPILL THRU ABUTMENTS. OVERALL LENGTH IS 244'-10-1/2" AND CLEAR ROADWAY WIDTH IS 38'-0". TRAFFIC TO BE MAINTAINED UTILIZING STAGE CONSTRUCTION. NO SALVAGE.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 74	1	Champaign	84	84
BY: [Signature]				
DATE: 5/1/2019				

GENERAL NOTES

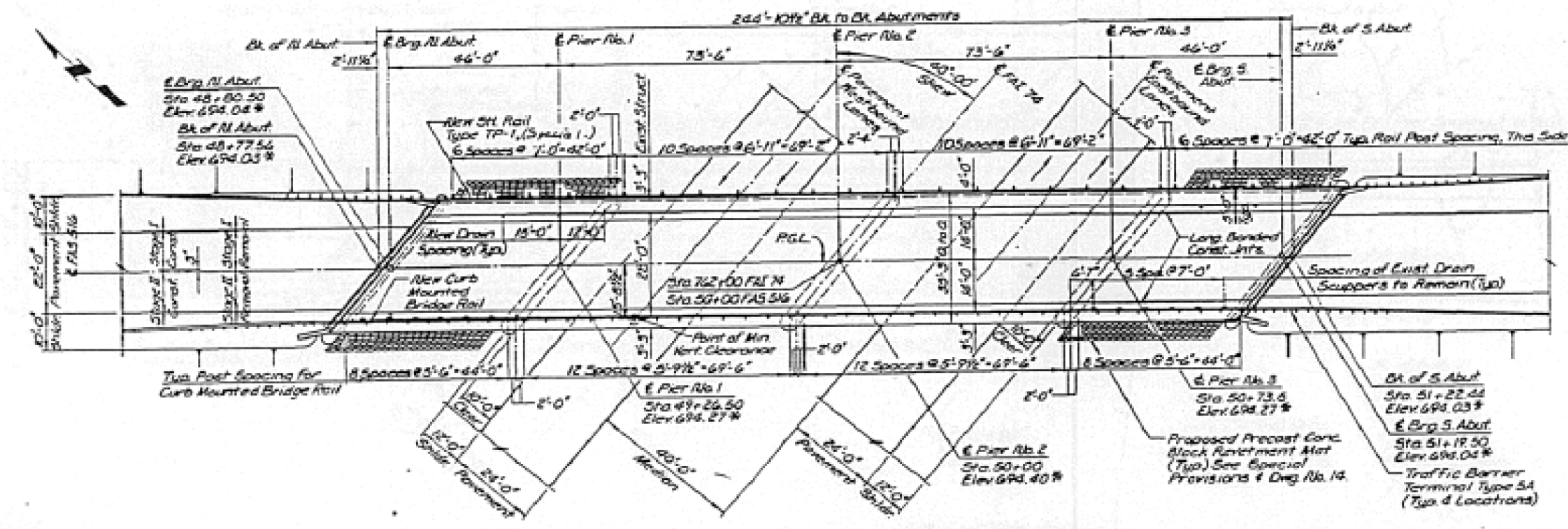
- REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A-618, A-615, OR A-616 GRADE 60.
- PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING STRUCTURE HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO NORMAL CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SUCH DIMENSIONS AND DETAILS IN THE FIELD 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 THE SCOPE OF THE WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.
- EXPANSION JOINTS SHALL CONSIST OF APPROVED EXPANSION ANCHORS, PROVIDING MINIMUM CERTIFIED TENSILE LOAD = 4,000LBS, AND 3/4" x 12" BOKED BOLTS.
- PROTECTIVE COAT SHALL NOT BE APPLIED TO SURFACES TO WHICH WATER-PROOFING MEMBRANE SYSTEM IS APPLIED.
- ALL NEW STRUCTURAL STEEL SHALL BE SHOP PAINT WITH THE ZINC-DILICATE AND WHITE PAINT SYSTEM. THE COLOR OF THE VINYL FINISH COAT SHALL BE MUNSHELL NO. 25 OR 312 - REDDISH BROWN. FOR PAINTING OF REPOSITIONING BEARING AREA. SEE DWG NO. 2.



ELEVATION

TOTAL BILL OF MATERIAL

ITEM	UNIT	QTY	UNIT PRICE	TOTAL
Bituminous Conc. Surface Course, Class 1	Ton	85.3		85.3
Concrete Removal	Cu Yd	6.1		6.1
Expansion Bolts, 1/2"	Each	186		186
Handrail Removal	Ln. Ft.	17		17
Floor Drains	Each	4		4
Preformed Joint Seal, 1 1/2"	Ln. Ft.	86		86
Neoprene Expansion Joint, 2'	Ln. Ft.	95		95
Protective Coat	Sq. Yd.	135		135
Class X Concrete	Cu Yd	28.2		28.2
Structural Steel	Lbs.	3,955		3,955
Repair Concrete Structures	Sq. Ft.	220		220
Reinforcement Bars (Epoxy Coated)	Lbs.	1,000		1,000
Deck Slab Repair (Full Depth, Type 1)	Sq. Yd.	3		3
Deck Slab Repair (Partial Depth)	Sq. Yd.	38		38
Waterproofing Membrane System	Sq. Yd.	79.5		79.5
Bituminous Conc. Surface Removal	Sq. Yd.	6.54		6.54
Epoxy Mortar Repairs	Cu Ft.	2.5		2.5
Jack & Reposition Bearings	Each	12		12
Class X Concrete Substructure	Cu Yd.	28.3		28.3
Steel Rail Type TP-1 (Spec. 10)	Ln. Ft.	250		250
Precast Conc. Block Retention Mat	Sq. Ft.	4,426		4,426
Curb Mounted Bridge Rail	Ln. Ft.	244		244



PLAN

LEGEND
 F - Fixed Brg.
 E - Exp. Brg.
 P.G.L. - Profile Grade Line

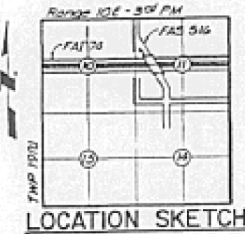
ESCA CONSULTANTS, INC.
 DESIGNED BY: IRDP 11/07
 DRAWN BY: IKEM 11/07
 CHECKED BY: JMC 11/07
 APPROVED BY: LJC 11/07

FAI 74 PROFILE GRADE*
 (Along & Pavement)

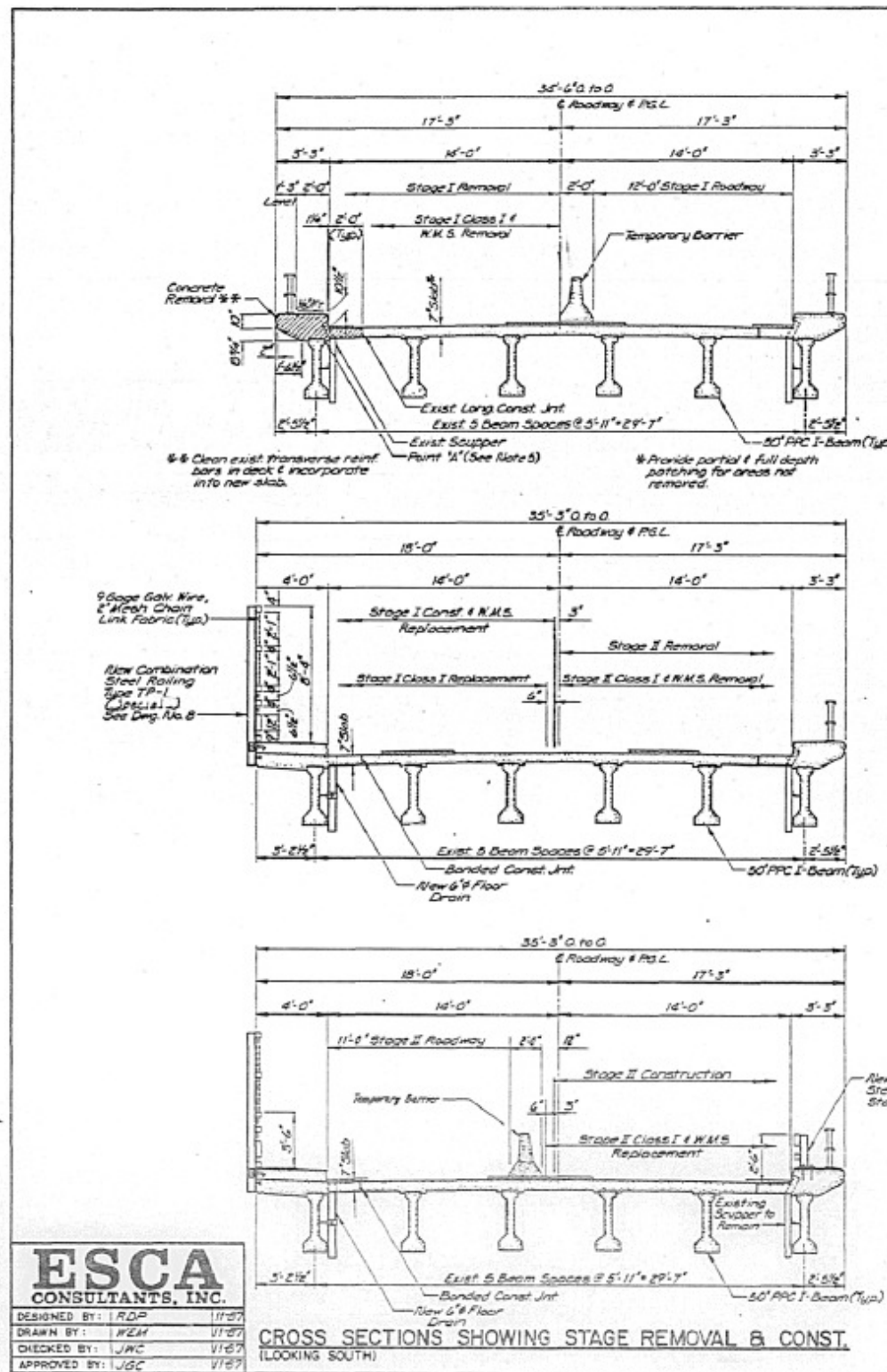
FAS 516 PROFILE GRADE*
 (Along & Pavement)

- DESIGN SPECIFICATIONS: AASHTO 1997 and applicable AASHTO 1997 & 2002 Retaining Guide Lines for Highway Bridges.
- LOADING: HS 20-44
- DESIGN STRESS (FIELD UNITS):
 f'c = 3,120 psi
 f' = 40,000 psi (TENT. BARS)
 E = 29,000,000 psi
- NEW CONSTRUCTION ONLY
- DESIGN STRESS (EXIST. PFC FIELD UNITS):
 f'c = 174,000 psi
 f' = 3,000 psi

APPROVED
 EDR STRUCTURAL DESIGN ONLY
 [Signature]



GENERAL PLAN & ELEVATION
 FAS 516 (CH-12) OVER FAI 74
 FAI RTE. 74 SECTION (10-7HB-11)
 CHAMPAIGN COUNTY
 STATION 762+00
 STRUCTURE NO. 010-0089

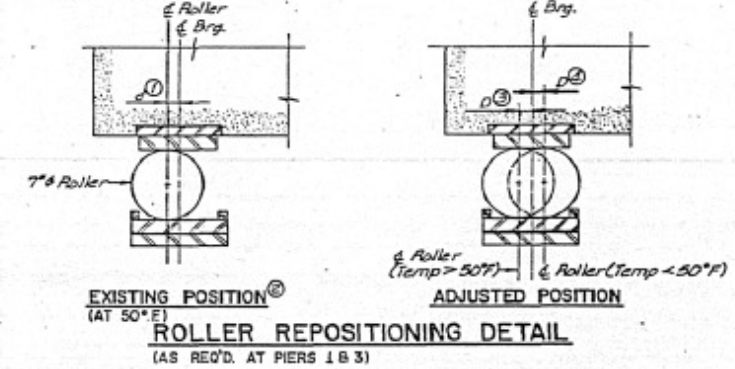


ESCA
CONSULTANTS, INC.

DESIGNED BY: RDP 11/07
 DRAWN BY: WEM 11/07
 CHECKED BY: JWC 11/07
 APPROVED BY: JGC 11/07

CROSS SECTIONS SHOWING STAGE REMOVAL & CONST.
(LOOKING SOUTH)

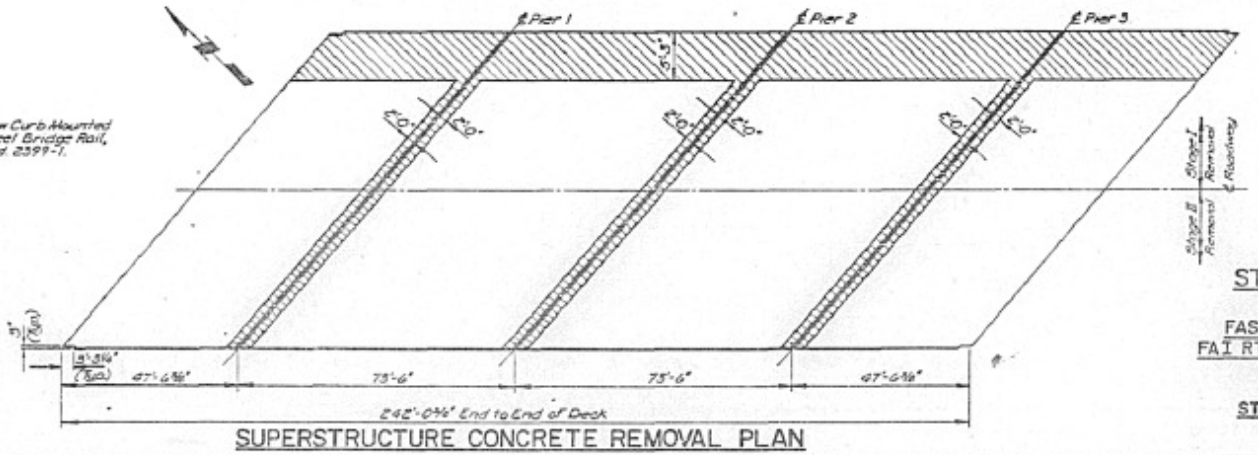
- ① Reposition Roller Only if "d" is Greater Than or Equal to 3/8" @ 50°F as Determined in the Field by the Engineer.
- ② Existing Position May be Opposite to That Shown.
- ③ $D = 1/8" / 100 \text{ Ft. of Expansion for Every } 20^\circ\text{F Above } 50^\circ\text{F}$
- ④ $D = 1/8" / 100 \text{ Ft. of Expansion for Every } 20^\circ\text{F Below } 50^\circ\text{F}$



- ROLLER REPOSITIONING DETAIL**
(AS REQ'D. AT PIERS 1 & 3)
- THE CONTRACTOR SHALL SUBMIT FOR APPROVAL TO THE ENGINEER PLANS FOR JACKING PRIOR TO COMMENCING ANY WORK AT THE BEARINGS. THE ESTIMATED DEAD LOAD REACTION PER BEARING IS 36 KIIPS FOR SPANS 1&4 AND 50 KIIPS FOR SPAN 2&3.
 - DURING EACH STAGE CONSTRUCTION, JACKING AND REPOSITIONING OF BEARINGS SHALL BE DONE AFTER CONCRETE REMOVAL IS COMPLETED AND BEFORE NEW CONCRETE IS POURED. IF NECESSARY, A HALFDON OF THREE BEAM ROLLERS PER STAGE MAY BE REPOSITIONED AT ONE TIME.
 - JACKING SHALL BE LIMITED TO 1/4" LEFT.
 - PRIOR TO JACKING, WELD TEMPORARY REINFORCING BARS (STEEL) TO BOTTOM PLATE TO PREVENT MOVEMENT OF REPOSITIONED ROLLERS DURING LOWERING OPERATIONS. AFTER ALL REPOSITIONING WORK IS COMPLETED, REMOVE REINFORCING BARS, CLEAN DISTURBED AREAS IN ACCORDANCE WITH METHOD A AS DESCRIBED IN THE SPECIAL PROVISIONS, AND PAINT WITH THE THREE COAT LEAD & CHROMATE FREE ALYD PAINT SYSTEM.
 - ALL WORK AT THE BEARINGS SHALL BE ENCLOSED IN "JACK AND REPOSITION BEARINGS." SEE SPECIAL PROVISIONS.
 - MISSING OR LOOSE ANCHOR BOLTS FOR BEARINGS SHALL BE REPLACED OR TIGHTENED, AS DIRECTED BY THE ENGINEER.

BILL OF MATERIAL
(SUPERSTRUCTURE)

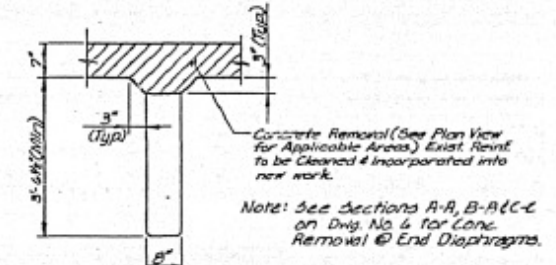
ITEM	UNIT	QUANTITY
Concrete Removal	CUYD	66.8



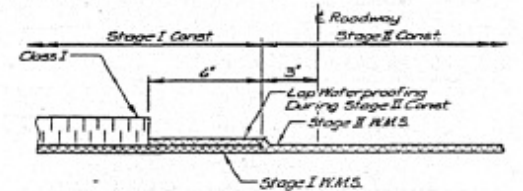
SUPERSTRUCTURE CONCRETE REMOVAL PLAN

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
111 N 1		Champaign	96	57
FED. ROAD DIST. NO.	ILLINOIS PROJECT		DRAWING NO. 2 OF 16	
110-4125-1, 110725-1, 120-1-1				

- NOTES**
- HATCHED AREAS INDICATE CONCRETE REMOVAL.
 - THE COST OF REMOVING EXISTING EXPANSION GUARD ANGLES AND BARS WITHIN CONCRETE REMOVAL AREAS IS INCIDENTAL TO "CONCRETE REMOVAL."
 - THE COST OF REMOVING THE EXISTING P.S. IS INCIDENTAL TO CONCRETE REMOVAL.
 - QUANTITY FOR TEMPORARY CONCRETE BARRIERS IS INCLUDED IN ROADWAY PLANS.
 - PRIOR TO CONCRETE REMOVAL, DETERMINE AND MARK POINT OF BOTTOM OF CONCRETE DECK AT INSIDE FACE OF FASCIA BEAR AT TEN FOOT INTERVALS ALONG THE LENGTH OF THE BRIDGE. THIS IS DESIGNATED POINT "A" ON THE CROSS SECTIONS. THE NEW DECK SHALL BE FORMED AND POURED AS SHOWN TO THESE SAME POINTS.



CONC. REMOVAL AT INTERMEDIATE DIAPHRAGMS
(TYPE AT 10 LOCATIONS)

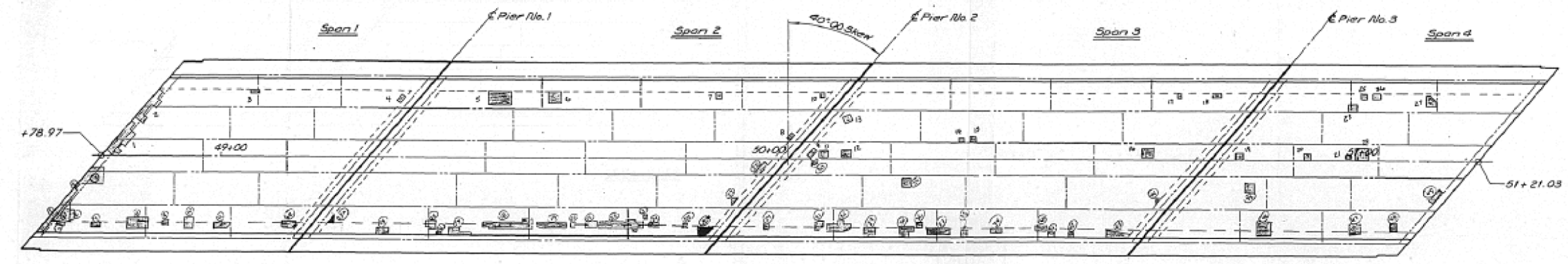


WATERPROOFING MEMBRANE

STAGE CONSTRUCTION DETAILS
 FAS 516 (CH-12) OVER FAI 74
 FAI RTE. 74 SECTION (10-7HB-11)
 CHAMPAIGN COUNTY
 STATION 762+00
 STRUCTURE NO. 010-0089

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS
181 N	A	CHAMPAIGN	56
Dwg No. 4 of 16			

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS
181 N	A	CHAMPAIGN	56
Dwg No. 4 of 16			



DECK PLAN

ITEM	UNIT	QUANTITY
Deck Slab Repair (Full Depth, Type II)	Sq Yd	0.60
Deck Slab Repair (Partial Depth)	Sq Yd	25.40

ESCA
CONSULTANTS, INC.
DESIGNED BY: JMS 4-08
DRAWN BY: WEM 8-08
CHECKED BY: WEM 8-08
APPROVED BY: JMS 8-08

**AS-BUILT
DECK SLAB REPAIR**
FAS 516 (CH-12) OVER FAL 74
FAL RTE 74 SECTION (10-7HB-11)
CHAMPAIGN COUNTY
STATION 762+00
STRUCTURE NO. 010-5089

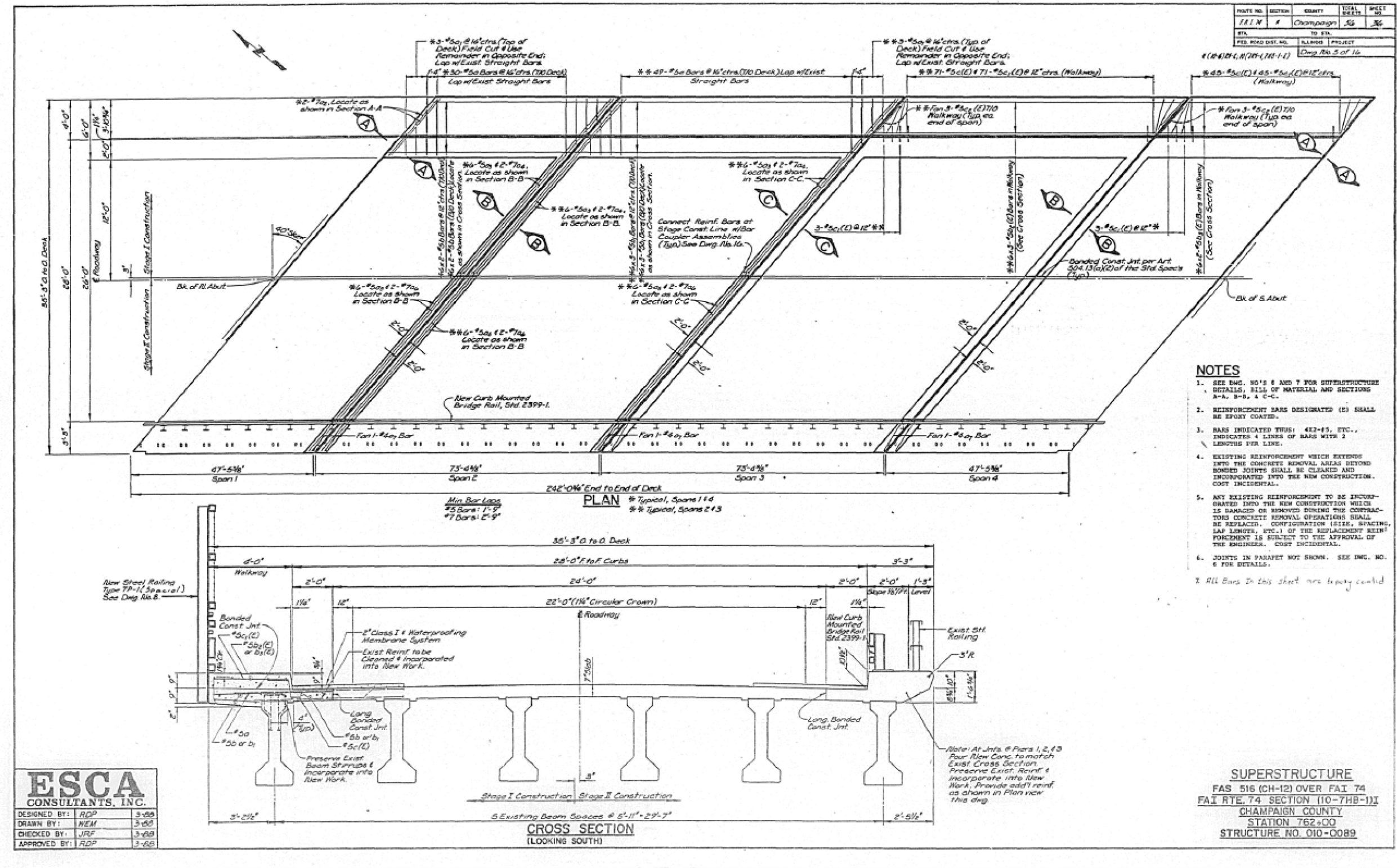


PLATE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
111-N	4	Champaign	56	36
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS PROJECT	CHAMPAIN COUNTY		
		Station 762+00		

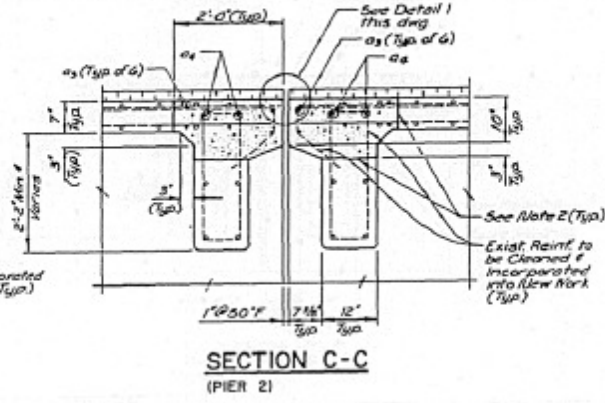
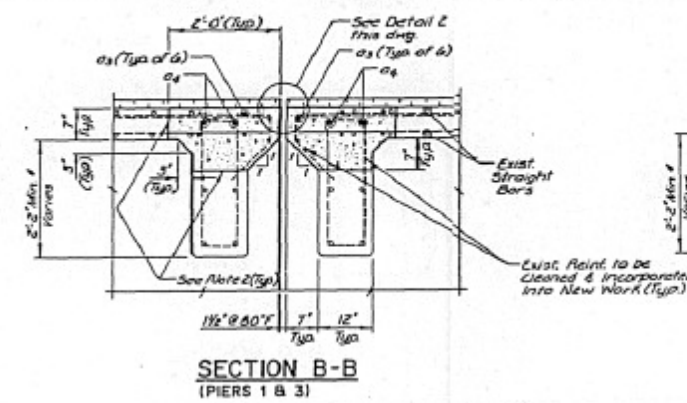
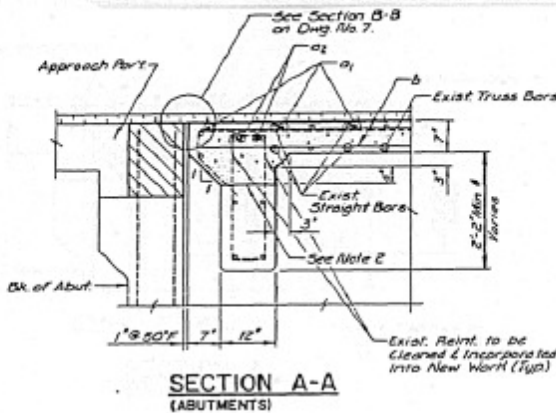
- NOTES**
- SEE ENG. NO'S 6 AND 7 FOR SUPERSTRUCTURE DETAILS, BILL OF MATERIAL AND SECTIONS A-A, B-B, & C-C.
 - REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.
 - BARS INDICATED THUS: 4#2-45, ETC., INDICATES 4 LINES OF BARS WITH 2 LENGTHS PER LINE.
 - EXISTING REINFORCEMENT WHICH EXTENDS INTO THE CONCRETE REMOVAL AREAS BEYOND BONDED JOINTS SHALL BE CLEANED AND INCORPORATED INTO THE NEW CONSTRUCTION. COST INCIDENTAL.
 - ANY EXISTING REINFORCEMENT TO BE INCORPORATED INTO THE NEW CONSTRUCTION WHICH IS DAMAGED OR REMOVED DURING THE CONTRACTOR'S CONCRETE REMOVAL OPERATIONS SHALL BE REPLACED. CONFIGURATION (SIZE, SPACING, LAP LENGTHS, ETC.) OF THE REPLACEMENT REINFORCEMENT IS SUBJECT TO THE APPROVAL OF THE ENGINEER. COST INCIDENTAL.
 - JOINTS IN PARAPET NOT SHOWN. SEE ENG. NO. 6 FOR DETAILS.
 - All Bars in this sheet are epoxy coated.

ESCA
CONSULTANTS, INC.

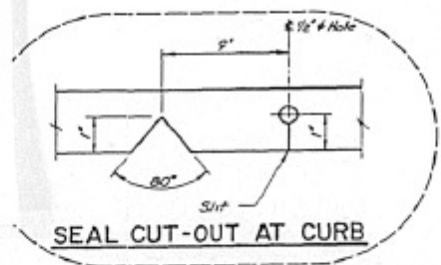
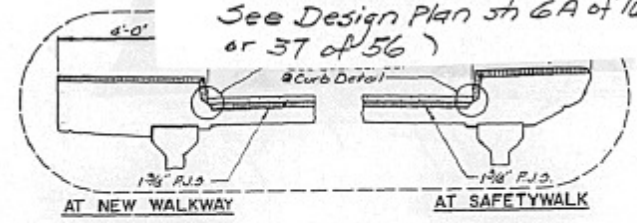
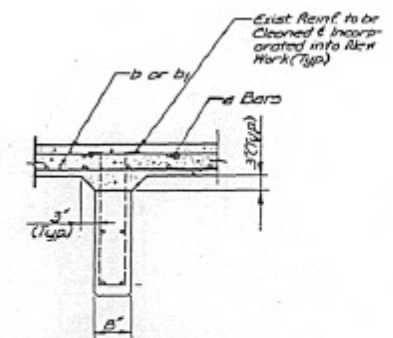
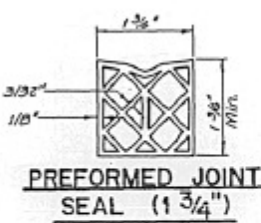
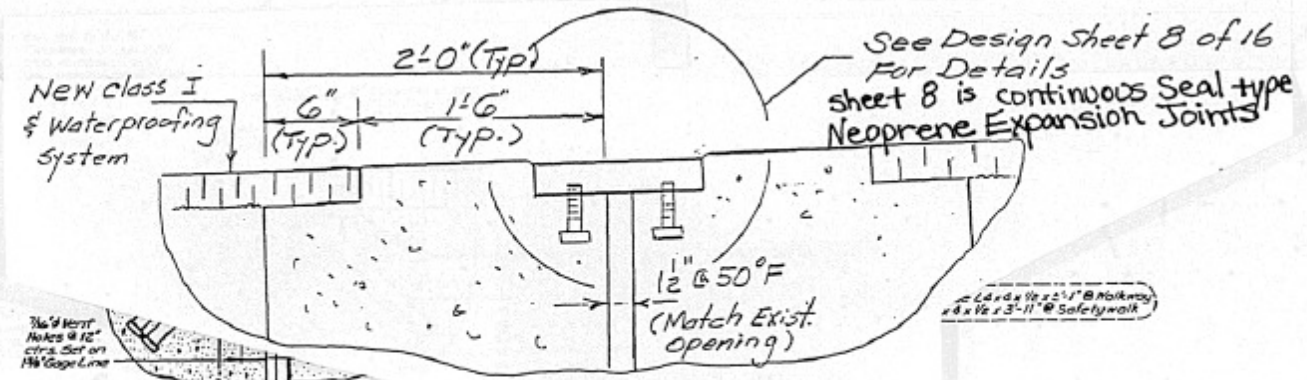
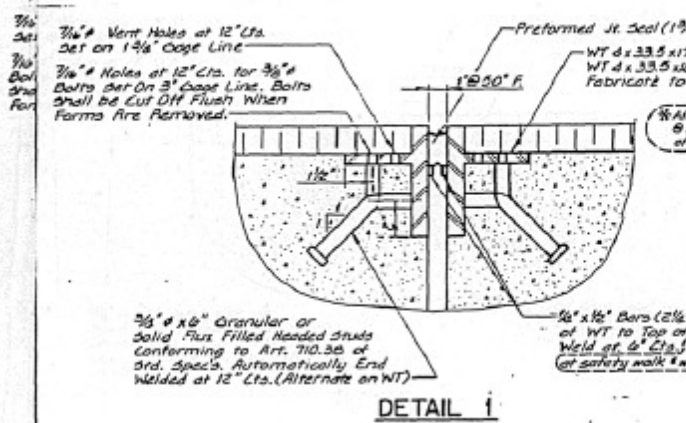
DESIGNED BY:	RDP	3-68
DRAWN BY:	NEM	3-68
CHECKED BY:	JRF	3-68
APPROVED BY:	RDP	3-68

SUPERSTRUCTURE
FAS 516 (CH-12) OVER FAI 74
FAI RTE. 74 SECTION (10-7HB-1)I
CHAMPAIGN COUNTY
STATION 762+00
STRUCTURE NO. 010-0089

NO. 1	SECTION	DRAWN	TOTAL SHEETS	SHEET
1	1	Champaign	56	57
F.A.I. R.T.E.		TO STA.		
FED. ROAD DIST. NO.		ALWAYS	PROJECT	
		Dwg. No. (64) of 16		



- NOTES**
1. SEE DWG. NO. 3 FOR LOCATION OF SECTIONS A-A, B-B, & C-C.
 2. PROVIDE BONDED CONSTRUCTION JOINT PER ARTICLE 504.13(a)(1) OF THE STD. SPEC'S. BETWEEN EXISTING DIAPHRAGGS AND NEW SLAB, AND BETWEEN NEW & EXISTING SLABS.
 3. ALL STUDS SHALL BE AUTOMATICALLY END WELDED. GRANULAR OR FLEX FILLED HEADED CONFORMING TO ARTICLE 710.38 OF THE STD. SPEC'S.
 4. ALL BARS IN THIS SHEET ARE Epoxy Coated

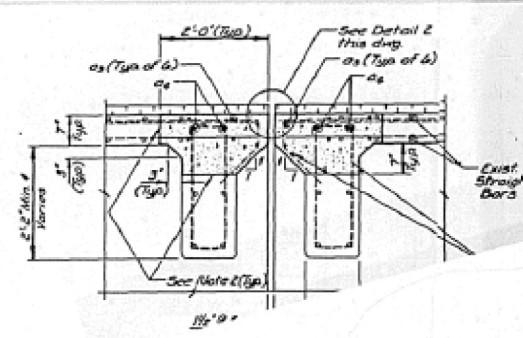
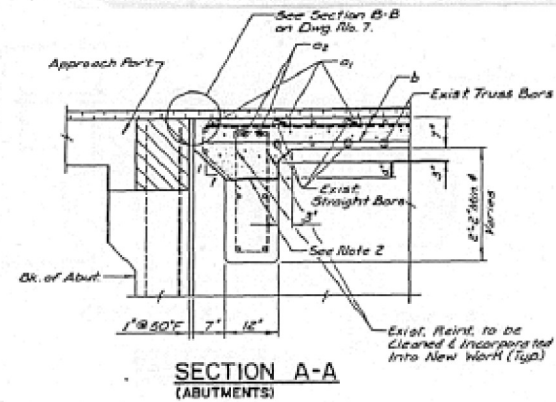


IESCA
CONSULTANTS, INC.

DESIGN	DESIGNED BY: LRDP	DATE: 11-88
DRAWN	DRAWN BY: JWM	DATE: 12-88
CHECKED	CHECKED BY: LJA	DATE: 12-88
APPROVED	APPROVED BY: LRDP	DATE: 12-88

SUPERSTRUCTURE DETAILS
FAS 516 (CH-12) OVER FAI 74
FAI RTE. 74 SECTION (10-7HB-11)
CHAMPAIGN COUNTY
STATION 762+00
STRUCTURE NO. 010-0089

ROUTE NO.	SECTION	QUANTITY	TOTAL SHEETS	SHEET NO.
FAI R	1	Champaign	56	37
TO STA.				
FED. ROAD DIST. NO.				
ILLINOIS PROJECT				
1(4)251, 1(4)251(10-1)				
Dwg. No. 6A of 16				

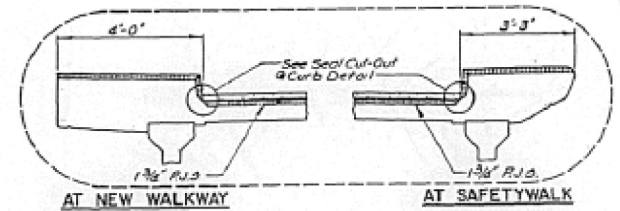
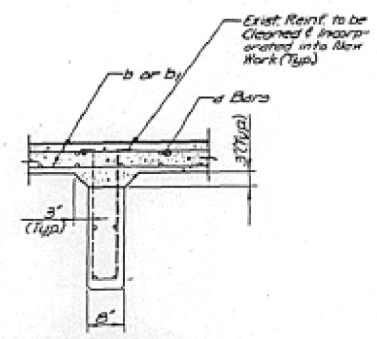
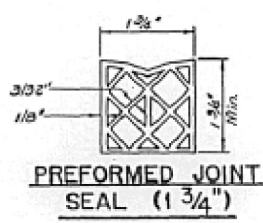
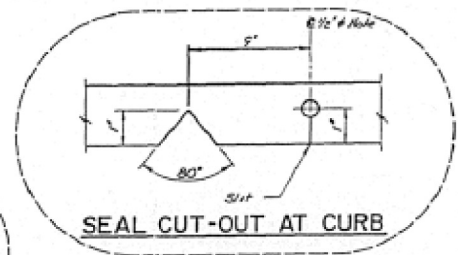
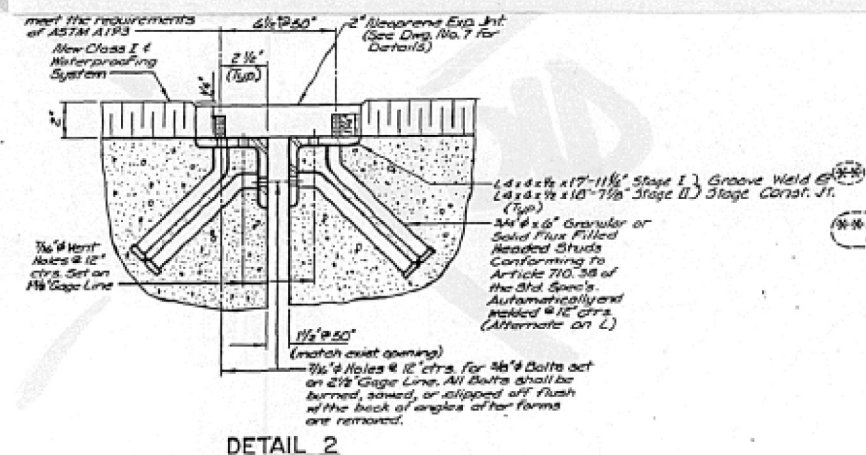
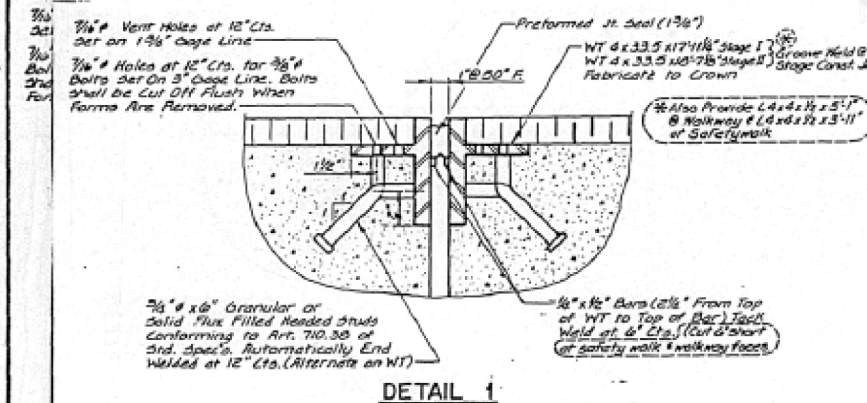


- NOTES**
- SEE DWG. NO. 5 FOR LOCATION OF SECTIONS A-A, B-B, & C-C.
 - PROVIDE DIVIDED CONSTRUCTION JOINT PER ARTICLE 504.13(a)(2) OF THE STD. SPEC'S. BETWEEN EXISTING DIAPHRAGGS AND NEW SLAB, AND BETWEEN NEW & EXISTING SLABS.
 - ALL STUDS SHALL BE AUTOMATICALLY END WELDED, GRANULAR OR FLOW FILLED READED CONFORMING TO ARTICLE 710.38 OF THE STD. SPEC'S.
 - ALL BARS IN THIS SHEET ARE EPOXY COATED

10' / 15' / 20' / 25' / 30' / 35' / 40' / 45' / 50' / 55' / 60' / 65' / 70' / 75' / 80' / 85' / 90' / 95' / 100'

- See Note 2 (Typ.)

- Exist Reinf. to be Cleaned & Incorporated into New Work (Typ.)



As Revised
8-15-91
RDP

SUPERSTRUCTURE DETAILS
FAS 516 (CH-12) OVER FAI 74
FAI RTE. 74 SECTION (10-7HB-111)
CHAMPAIGN COUNTY
STATION 762+00
STRUCTURE NO. 010-0089

IESCA
CONSULTANTS, INC.
DESIGNER: JMS
DRAWN: MEM
CHECKED: JRI
APPROVED: RDP

FILE NAME =	USER NAME = shererjm	DESIGNED - JMS	REVISED -
pw:\planroom.dot.illinois.gov\PWIDOT\Documents\DOT Offices\District 5\Projects\057089\DRWING\Structural\MSD570892-sht-010-0089		CHECKED -	REVISED -
PLOT SCALE = 40.0000' / in.		DATE - 021318	REVISED -
PLOT DATE = 5/1/2019			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS (INFORMATION ONLY)
S.N. 010-0089
SCALE: NONE SHEET NO. 7 OF 8 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-6.7)BDR	CHAMPAIGN	99	66
CONTRACT NO. 70B92				
ILLINOIS FED. AID PROJECT				

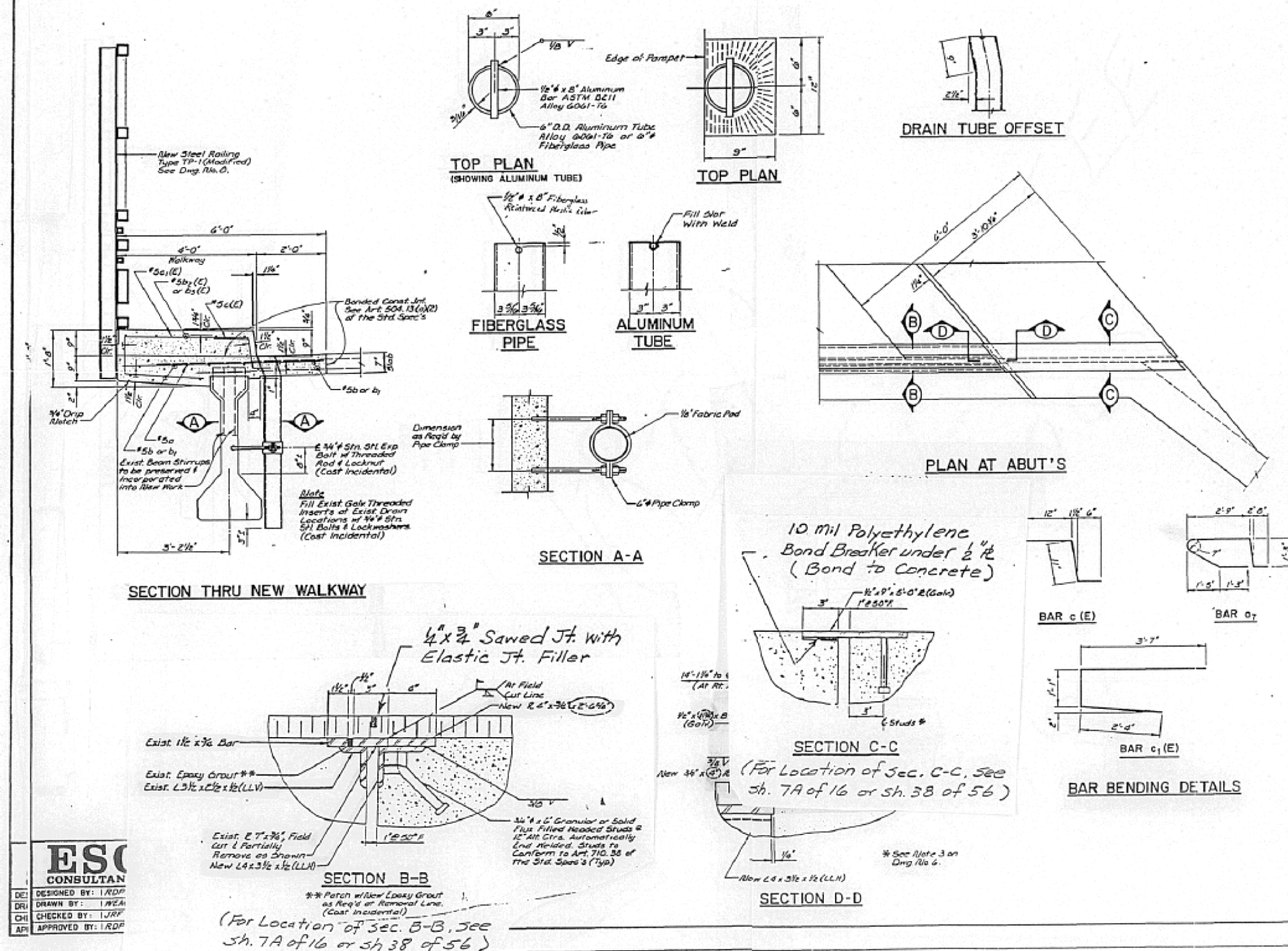
PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
111 N 1	Champaign	IL	16	10
FED. ROAD DIST. NO.		STATE PROJECT	DRAWING NO. (A) of 16	
10-4101, 4101-1, 4101-2				

NOTES

- FIBERGLASS PIPE SHALL CONFORM TO ASTM D3996, WITH SHORT-TIME RUPTURE STRENGTH HOOP TENSILE STRESS OF 30,000 P.S.I. MINIMUM.
- THE SURFACE OF THE FIBERGLASS PIPE SHALL BE FREE OF BOND INHIBITING AGENTS.
- THE EXTERIOR SURFACES OF FIBERGLASS FLOOR DRAINS SHALL BE PAINTED WITH ONE COAT OF ALUMINUM PAINT. PAINTING OF THE FIBERGLASS FLOOR DRAINS WILL NOT BE REQUIRED WHEN THE EXTERIOR SURFACES OF THE FIBERGLASS DRAINS ARE COATED BY THE MANUFACTURER WITH SILVER PIGMENT OR A PIGMENT THAT MATCHES THE COLOR OF THE CONCRETE BEAM.
- THE CLAMPING DEVICE SHALL BE GALVANIZED IN ACCORDANCE WITH AASHTO M-332.
- REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.
- All Bars in this Steel are Epoxy Coated

BILL OF MATERIAL

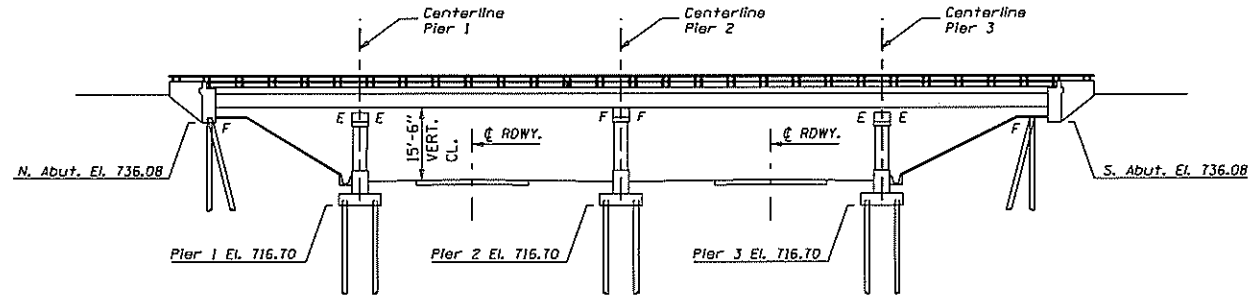
BAR	Ø"	SIZE	LENGTH	SHAPE
o ₁ (E)	150	#5	5'-8"	—
o ₁ (E)	12	#5	7'-0"	—
o ₂ (E)	4	#7	7'-6"	—
o ₂ (E)	36	#5	22'-8"	—
o ₂ (E)	12	#7	22'-8"	—
o ₂ (E)	36	#5	21'-1"	—
o ₂ (E)	12	#7	21'-1"	—
o ₂ (E)	6	#6	7'-10"	—
b ₁ (E)	48	#5	24'-6"	—
b ₁ (E)	72	#5	25'-6"	—
b ₂ (E)	36	#5	25'-6"	—
b ₂ (E)	24	#5	24'-6"	—
c ₁ (E)	232	#5	2'-5"	—
c ₁ (E)	244	#5	7'-0"	—
c ₁ (E)	24	#5	3'-6"	—
ITEM		UNIT	QUANTITY	
Reinf. Bars (Epoxy Coated)	Lbs		1100.0	
Class I Core Superstructure	Cu Yds		82.3	



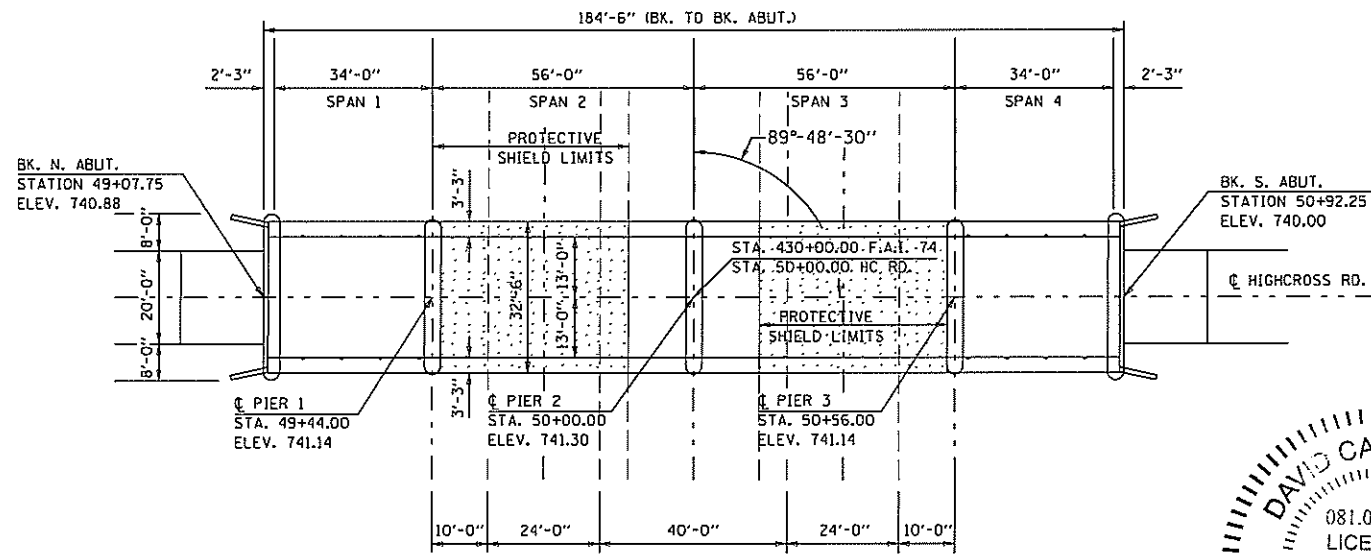
ESC CONSULTANT

DESIGNED BY: IRDP
 DRAWN BY: INEA
 CHECKED BY: JRF
 APPROVED BY: IRDP

SUPERSTRUCTURE DETAILS
 FAS 516 (CH-12) OVER FAI 74
 FAI RTE. 74 SECTION (10-7HB-11)
 CHAMPAIGN COUNTY
 STATION 762+00
 STRUCTURE NO. 010-0089



ELEVATION VIEW



PLAN VIEW

S.N. 010-0175 WAS BUILT IN 1960 AS FAI ROUTE 74, SECTION 10-6HB-2 AT STATION 430+69.46 IN CHAMPAIGN COUNTY. THE STRUCTURE IS A FOUR (4) SPAN, 7" THICK REINFORCED DECK WITH PRESTRESSED CONCRETE BEAMS ON CONCRETE PILE SUPPORTED PIERS AND ABUTMENTS.

THE STRUCTURE HAS A BACK-TO-BACK ABUTMENT LENGTH OF 184'-6", OUT-TO-OUT WIDTH OF 32'-6", BRIDGE ROADWAY WIDTH OF 26'-0", AND AN APPROACH ROADWAY WIDTH OF 24'-0".

SEE LIST OF PROPOSED IMPROVEMENTS ON THIS SHEET.
WORK SHALL BE COMPLETED UTILIZING A ROAD CLOSURE.

PROPOSED IMPROVEMENTS

1. PERFORM STRUCTURAL REPAIR OF CONCRETE ON SUBSTRUCTURE.
2. BRIDGE DECK SCARIFICATION, 3/4".
3. REMOVE AND REPLACE EXISTING FLOOR DRAINS.
4. FULL-DEPTH DECK PATCHING.
5. MODIFY EXISTING JOINTS AT PIERS AND ABUTMENTS.
6. PLACEMENT OF PROPOSED LATEX CONCRETE WEARING SURFACE.
7. PERFORM BRIDGE DECK GROOVING (LONGITUDINAL).
8. PLACE SILICONE JOINT SEALER, 1"
9. PLACE HOT-MIX ASPHALT RUN DOWNS AT APPROACHES.

GENERAL NOTES

PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN SCOPE OF WORK. HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.

EXISTING REINFORCEMENT BARS EXTENDING INTO THE REMOVAL AREA SHALL BE CLEANED, STRAIGHTENED AND INCORPORATED INTO THE NEW CONSTRUCTION. COST INCLUDED WITH DECK SLAB REPAIR

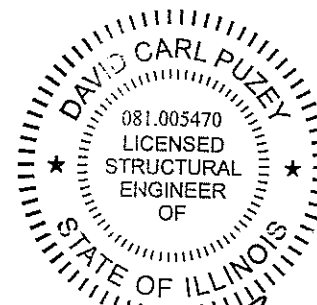
AREAS OF DECK REPAIRS SHOWN ARE ESTIMATED. THE ENGINEER SHALL SHOW ACTUAL LOCATIONS OF THE DECK REPAIRS ON AS-BUILT PLANS.

SYNTHETIC FIBERS SHALL BE INCLUDED IN THE BRIDGE DECK LATEX CONCRETE OVERLAYS. SEE SPECIAL PROVISIONS.

PROTECTIVE COAT SHALL BE APPLIED TO THE BRIDGE DECK CONCRETE OVERLAY AREAS ONLY.

TOTAL BILL OF MATERIALS

ITEM	UNIT	TOTAL
PROTECTIVE SHIELD	SQ YD	290.0
PROTECTIVE COAT	SQ YD	516.0
FLOOR DRAINS	EACH	16.0
BRIDGE DECK GROOVING	SQ YD	499.0
BRIDGE DECK LATEX CONCRETE OVERLAY 2 1/4"	SQ YD	516.0
BRIDGE DECK SCARIFICATION 3/4"	SQ YD	520.0
STRUCTURAL REPAIR OF CONCRETE ≤ 5"	SQ FT	35.0
DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQ YD	8.4
DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	45.1
SILICONE JOINT SEALER, 1"	FOOT	33.0
POLYMER CONCRETE	CU FT	19.1

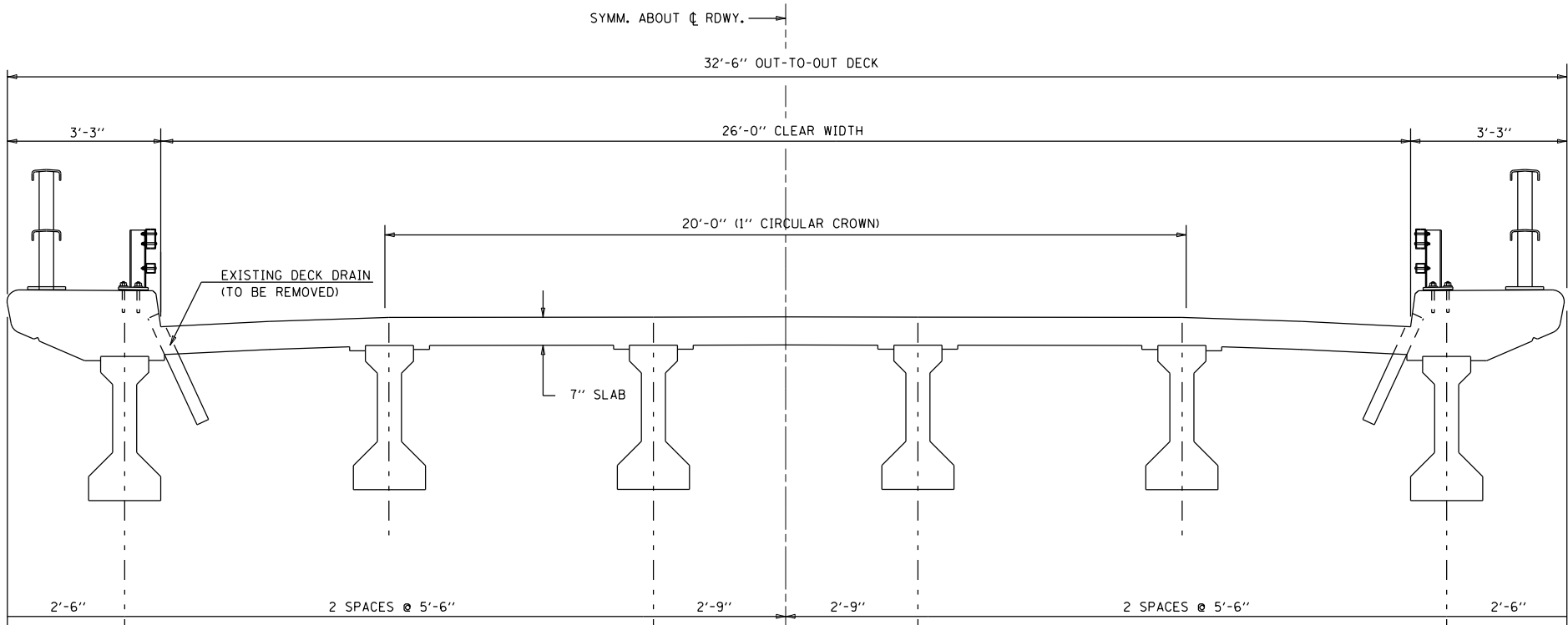


David Carl Puzey 12/4/19
Expires 11/30/20

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pc:\planroom\dtd\illinois.gov\PI001\Documents\DOT Offices\District 5\Projects\05708\DRAWING\Structural\AS0570892-sht-010-0175	DRAWN to Structural	AS0570892-sht-010-0175	REVISED -		S.N. 010-0175		74	(10-6.7)BDR	CHAMPAIGN	99	68
PLOT SCALE = 40.0000' / in.	CHECKED -	REVISD -	REVISD -		SCALE: 1" = 20'		SHEET NO. 1 OF 10 SHEETS		STA.	TO STA.	
PLOT DATE = 12/2/2019	DATE - 021318	REVISD -	REVISD -					ILLINOIS FED. AID PROJECT		CONTRACT NO. 70B92	

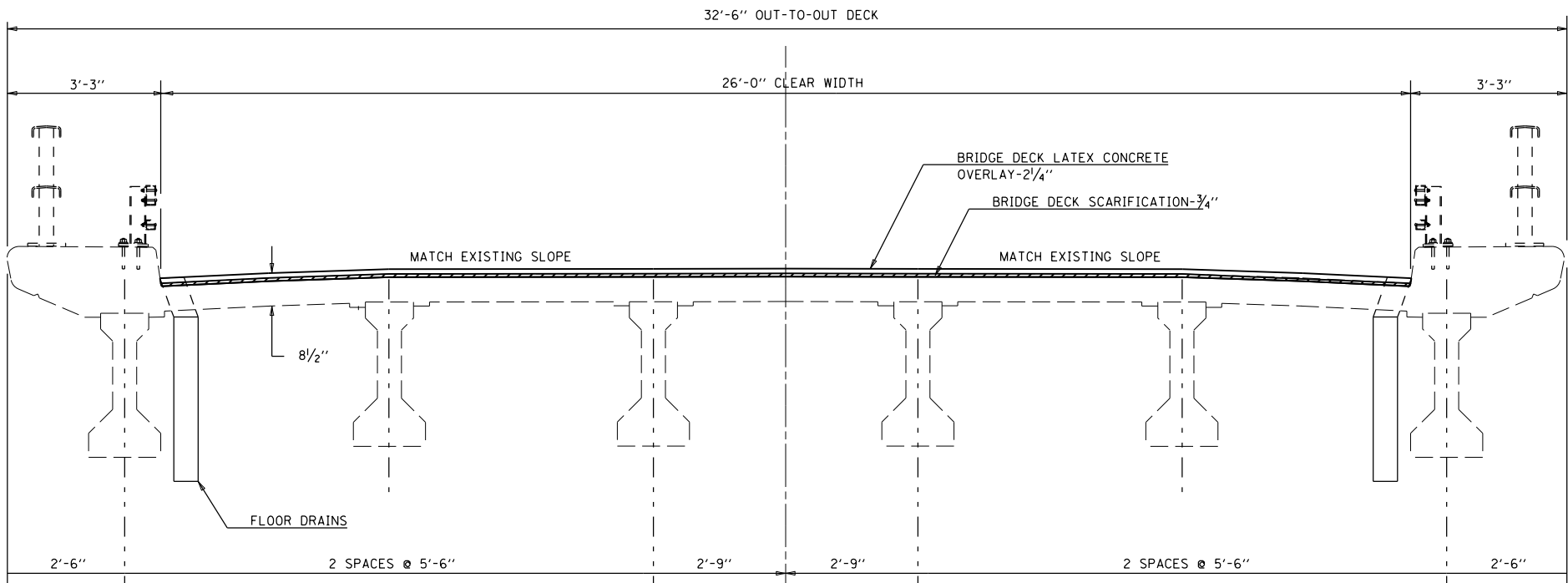
EXISTING DECK CROSS SECTION

S.N. 010-0175



PROPOSED DECK CROSS SECTION

S.N. 010-0175



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	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 5/1/2019	DATE - 021318	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DECK CROSS SECTIONS S.N. 010-0175			
SCALE: NONE	SHEET NO. 2 OF 10 SHEETS	STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-6.7)BDR	CHAMPAIGN	99	69
CONTRACT NO. 70B92				
ILLINOIS FED. AID PROJECT				

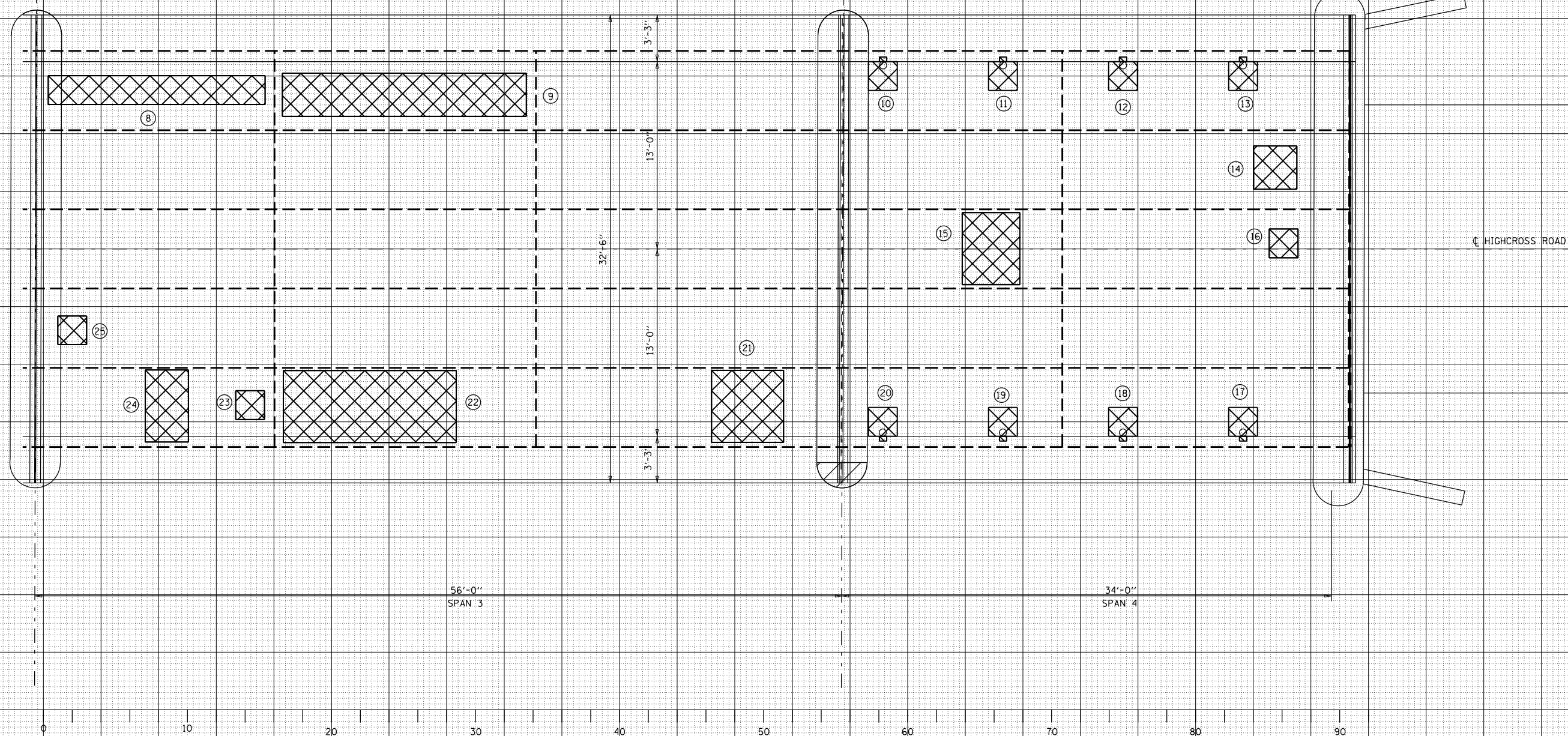
FINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	DATE
NOTE BOOK NO.	TEMPLATE AREAS CHECKED	

ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	DATE
NOTE BOOK NO.	TEMPLATE AREAS CHECKED	

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	DECK SLAB REPAIR, FULL DEPTH
	STRUCTURAL REPAIR OF CONCRETE



USER NAME = shererjm	DESIGNED - JMS	REVISED -
PLOT SCALE = 40.0000 ' / in.	DRAWN - JMS	REVISED -
PLOT DATE = 5/1/2019	CHECKED -	REVISED -
	DATE - 030518	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DETAIL OF DECK REPAIRS			
S.N. 010-0175			
SCALE: 1" = 2'	SHEET 4	OF 10 SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-6.7)BDR	CHAMPAIGN	99	71
CONTRACT NO. 70B92				

ILLINOIS FED. AID PROJECT

PATCH NO.	SIZE		DECK SLAB REPAIR (FULL DEPTH T1)	DECK SLAB REPAIR (FULL DEPTH T2)
	LENGTH (FT)	WIDTH (FT)	SQ YD	SQ YD
1	2	2	0.4	
2	2	2	0.4	
3	2	2	0.4	
4	2	2	0.4	
5	15.7	2		3.5
6	2	5		1.1
7	12	2		2.7
8	17.2	2		3.8
9	17.2	3		5.7
10	2	2	0.4	
11	2	2	0.4	
12	2	2	0.4	
13	2	2	0.4	
14	3	3		1.0
15	4	5		2.2
16	2	2	0.4	
17	2	2	0.4	

SUB-TOTAL = 4.4 20.0

PATCH NO.	SIZE		DECK SLAB REPAIR (FULL DEPTH T1)	DECK SLAB REPAIR (FULL DEPTH T2)
	LENGTH (FT)	WIDTH (FT)	SQ YD	SQ YD
18	2	2	0.4	
19	2	2	0.4	
20	2	2	0.4	
21	5	5		2.8
22	12	5		6.7
23	2	2	0.4	
24	3	5		1.7
25	2	2	0.4	
26	8	5		4.4
27	17.2	3		5.7
28	17.2	2		3.8
29	2	2	0.4	
30	2	2	0.4	
31	2	2	0.4	
32	2	2	0.4	

SUB-TOTAL = 4.0 25.1

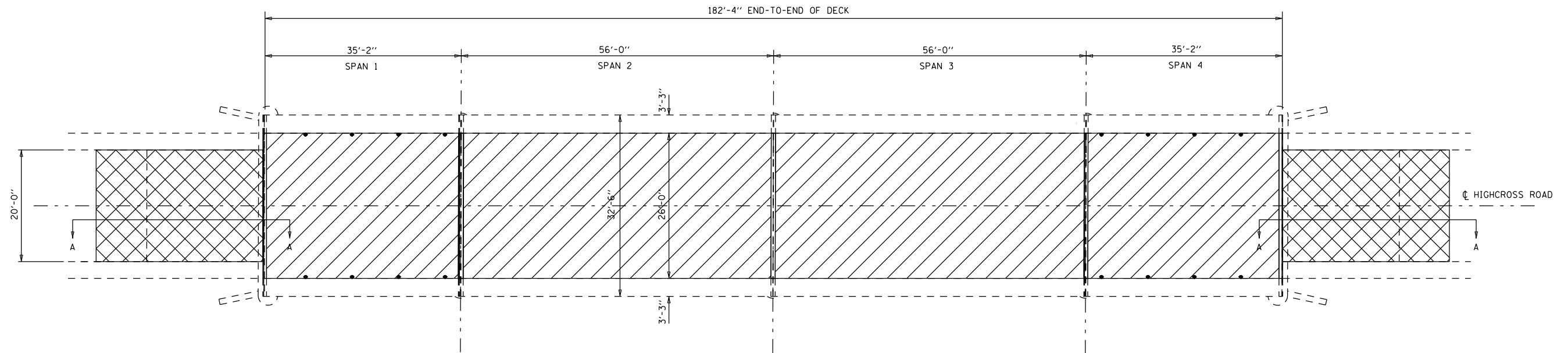
TOTAL = 8.4 45.1

NOTES:

AREA OF DECK SLAB REPAIR HAVE BEEN ESTIMATED FROM MARCH 1ST, 2018 DECK SURVEY. THE ACTUAL QUANTITY AND LOCATIONS SHALL BE DETERMINED BY THE ENGINEER. THE ENGINEER SHALL SHOW THE ACTUAL LOCATIONS OF THE DECK REPAIRS ON DECK PATCHING DETAIL SHEETS.

BILL OF MATERIALS

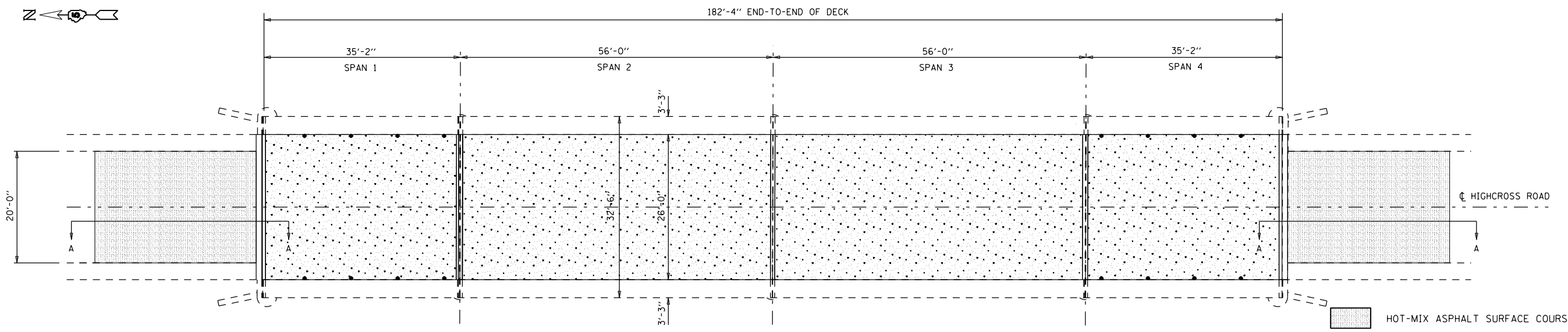
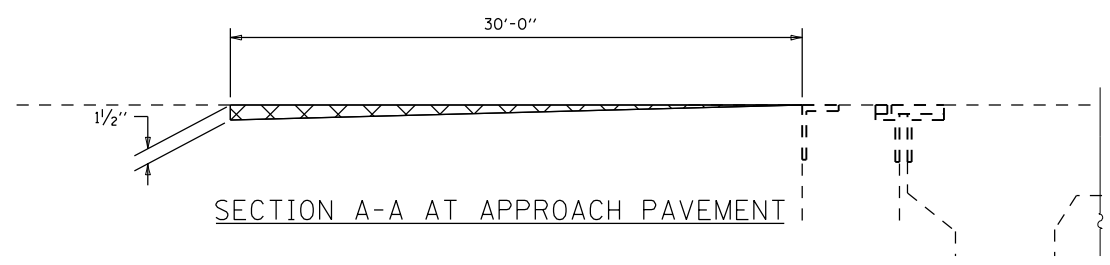
ITEM	UNIT	TOTAL
DECK SLAB REPAIR, FD (TYPE I)	SQ YD	8.4
DECK SLAB REPAIR, FD (TYPE II)	SQ YD	45.1



- HOT-MIX SURFACE REMOVAL - BUTT JOINT
- BRIDGE DECK SCARIFICATION - 3/4"

BILL OF MATERIALS

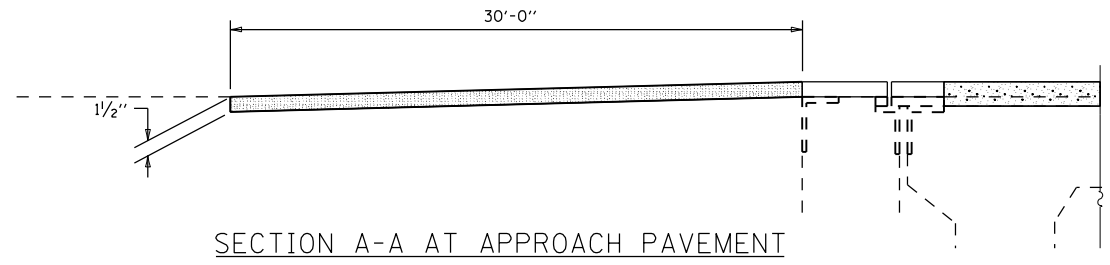
ITEM	UNIT	TOTAL
BRIDGE DECK SCARIFICATION - 3/4"	SQ YD	520.0
HMA SURFACE REMOVAL - BUTT JOINT	SQ YD	134.0



- HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50
- BRIDGE DECK LATEX CONCRETE OVERLAY, 2/4"

BILL OF MATERIALS

ITEM	UNIT	TOTAL
POLY HMA SC MIX "E" N90	TON	12.0
BRIDGE DECK LATEX CONC. OVLY., 2/4"	SQ YD	516.0
BRIDGE DECK GROOVING	SQ YD	499.0



FILE NAME =	USER NAME = shererjm	DESIGNED - JMS	REVISED -
pw:\planroom.dot.illinois.gov\PIDOT\Documents\IDOT Offices\District 5\Projects\D570892\Drawings\Structural\MSD570892-sht-010-0175		DRAWN BY - JMS	REVISED -
PLOT SCALE = 40.0000' / in.		CHECKED -	REVISED -
PLOT DATE = 5/1/2019		DATE - 030518	REVISED -

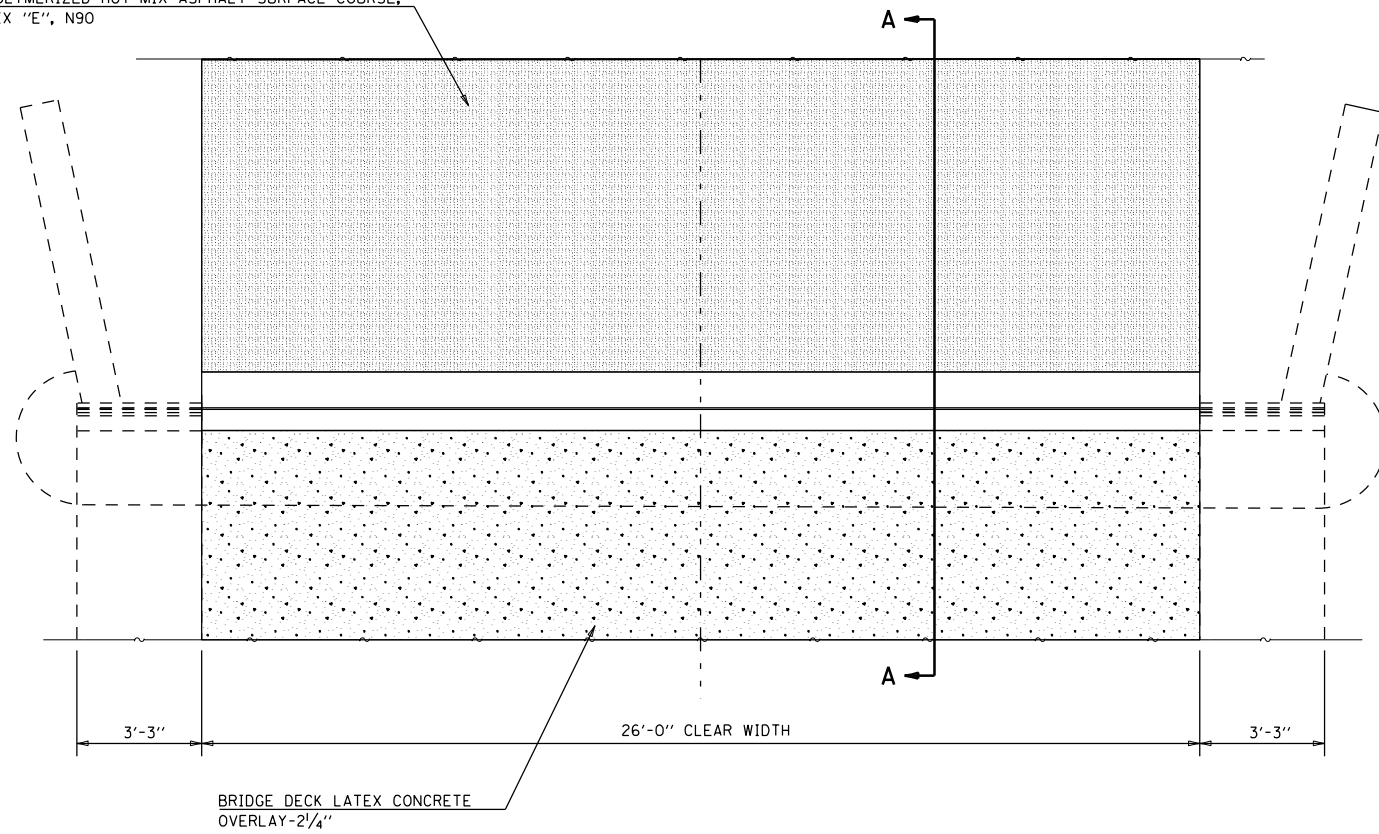
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**WEARING SURFACE DETAIL
S.N. 010-0175**

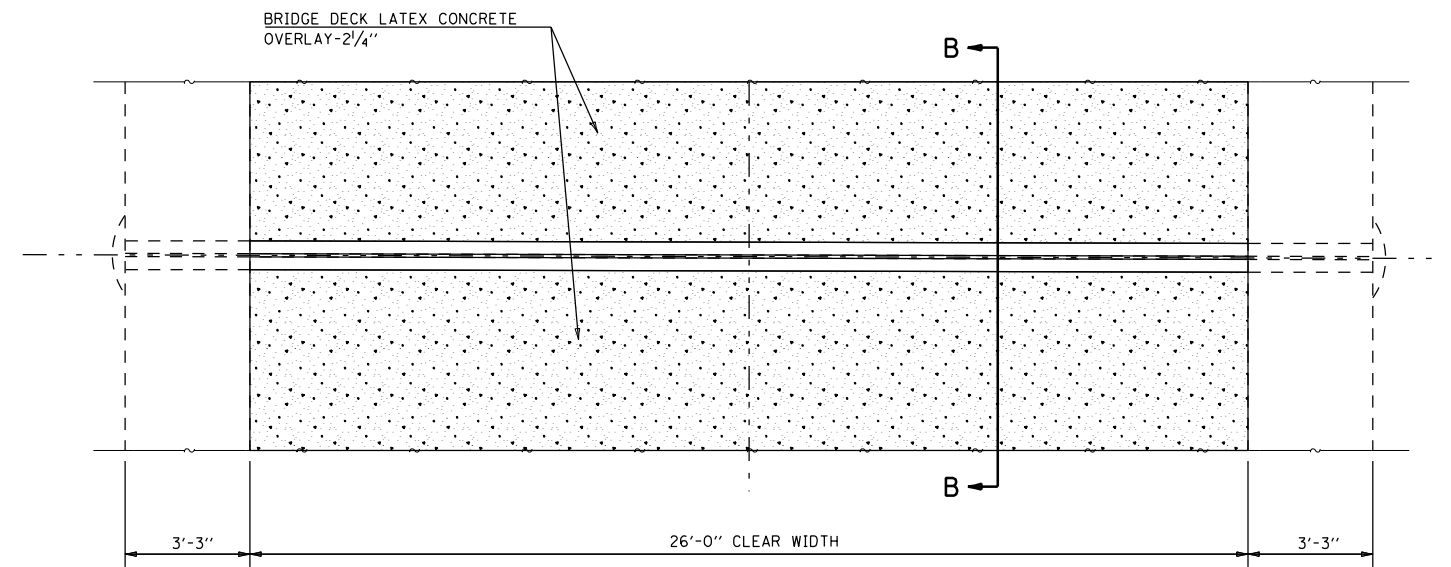
SCALE: NONE SHEET NO. 6 OF 10 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-6.7)BDR	CHAMPAIGN	99	73
CONTRACT NO. 70B92				
ILLINOIS FED. AID PROJECT				

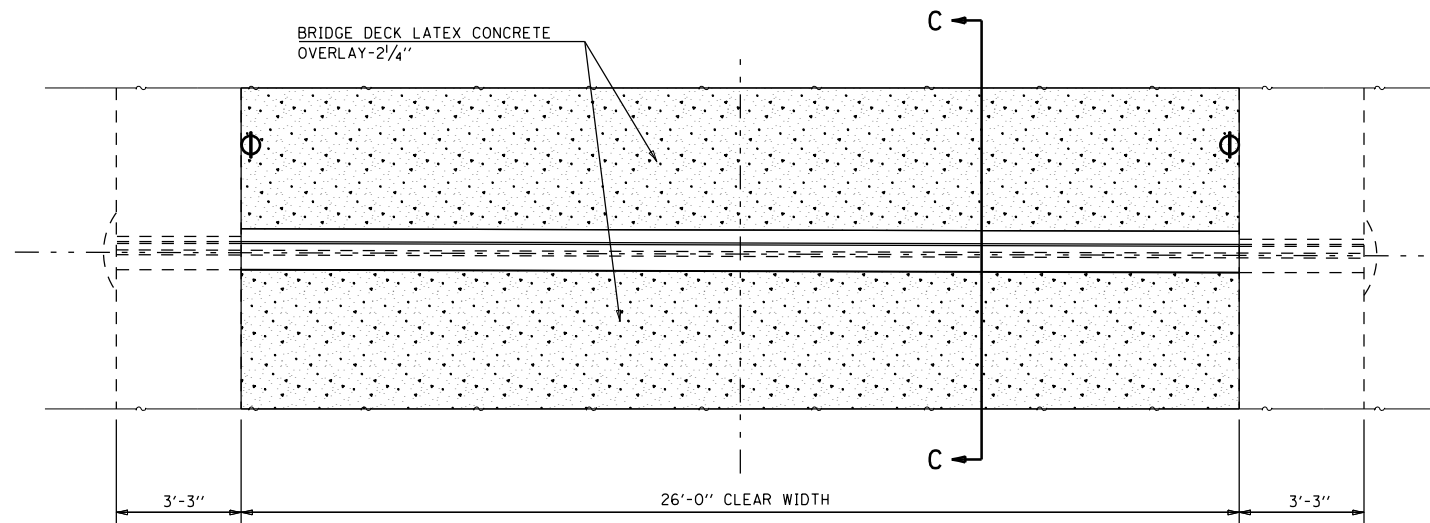
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE,
MIX "E", N90



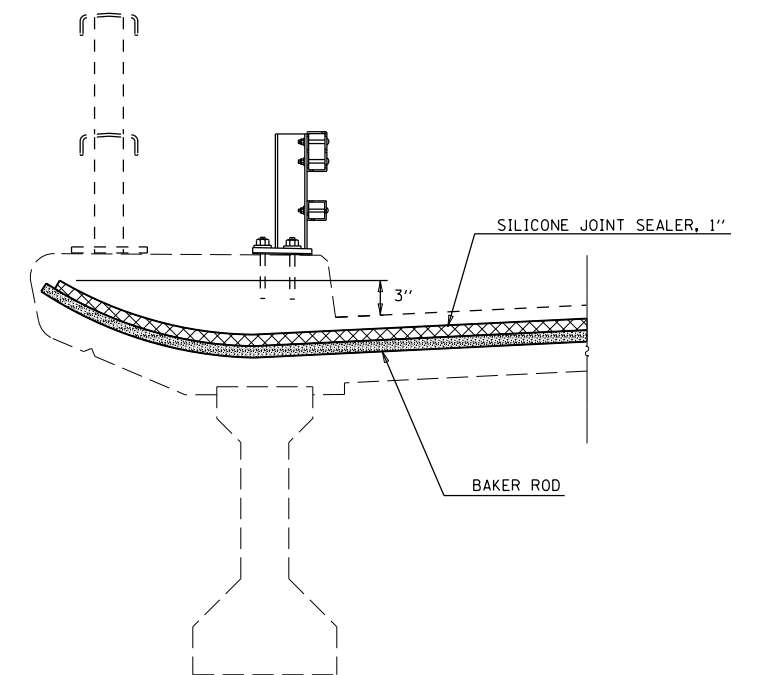
PLAN OF CONSTRUCTION AT ABUTMENTS



PLAN OF CONSTRUCTION AT PIER 2



PLAN OF CONSTRUCTION AT PIERS 1 & 3



SECTION AT PARAPET
SILICONE JOINT SEALER

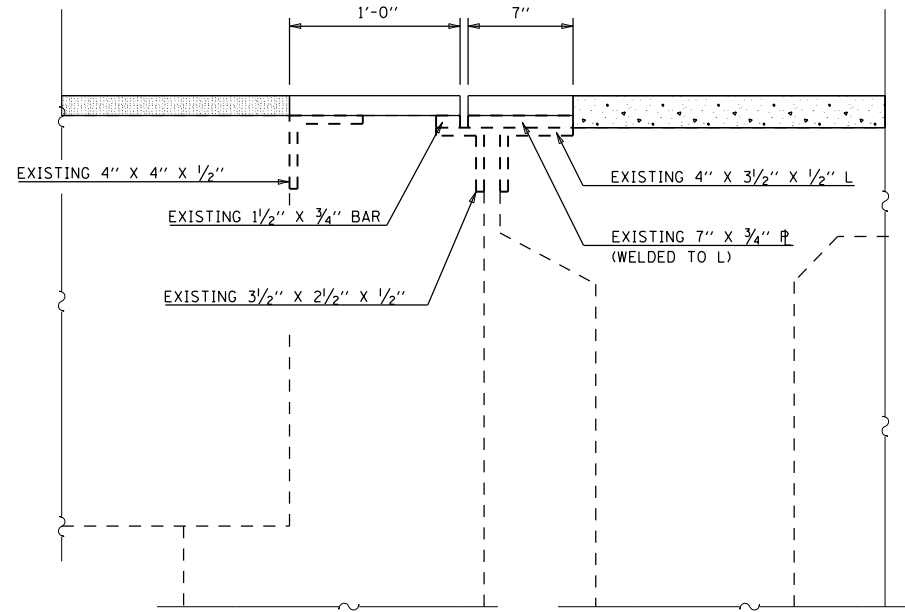
FILE NAME =	USER NAME = shererjm	DESIGNED - JMS	REVISED -
pw:\planroom.dot.illinois.gov\PIDOT\Documents\IDOT Offices\District 5\Projects\0570892\Drawings\Structural\MSD570892-sht-010-0175		DRAWN to Structural	REVISED -
	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 5/1/2019	DATE - 030518	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

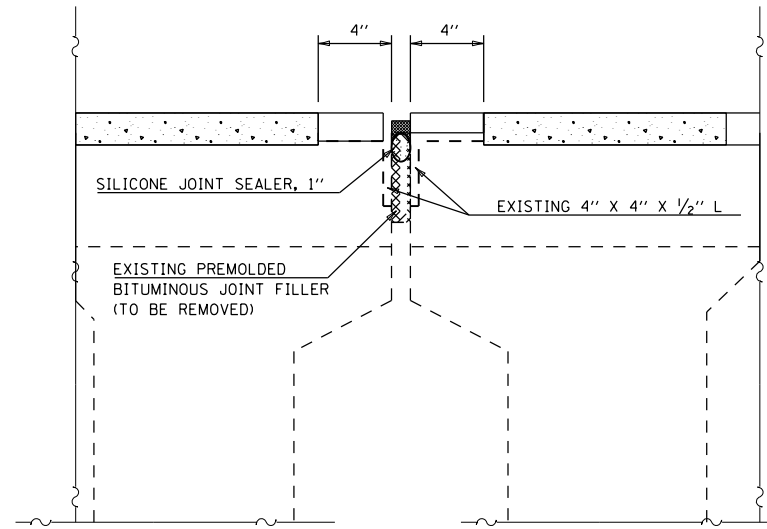
DETAIL OF EXPANSION JOINTS
S.N. 010-0175

SCALE: NONE SHEET NO. 7 OF 10 SHEETS STA. TO STA.

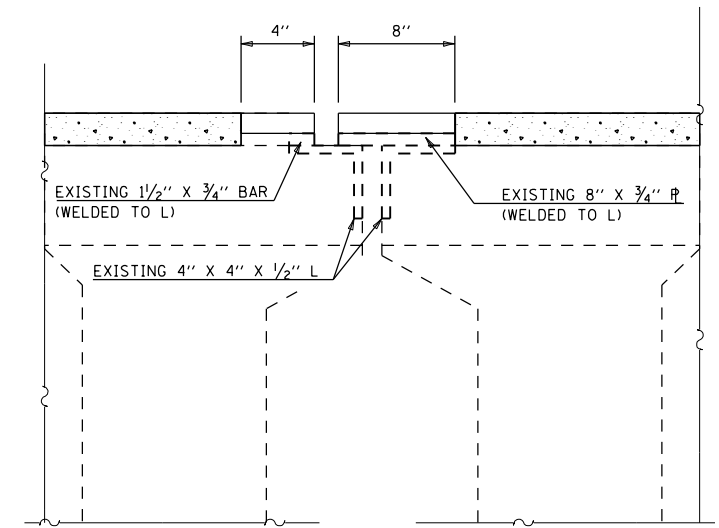
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-6.7)BDR	CHAMPAIGN	99	74
CONTRACT NO. 70B92			ILLINOIS FED. AID PROJECT	



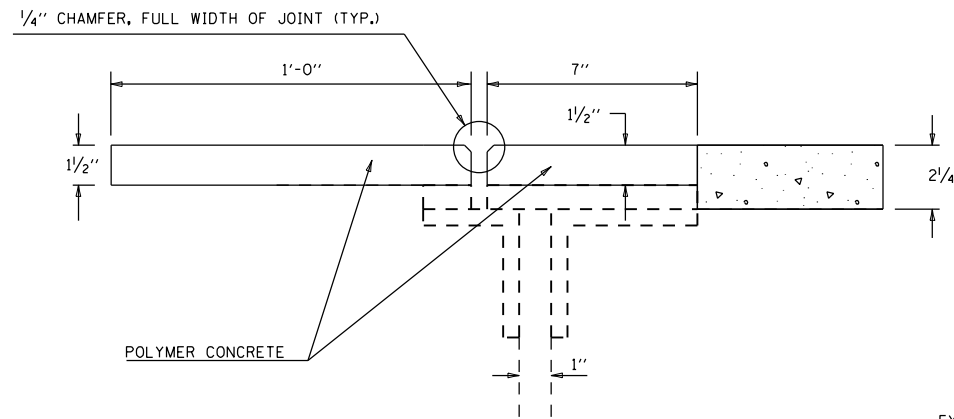
SECTION A-A AT ABUTMENTS



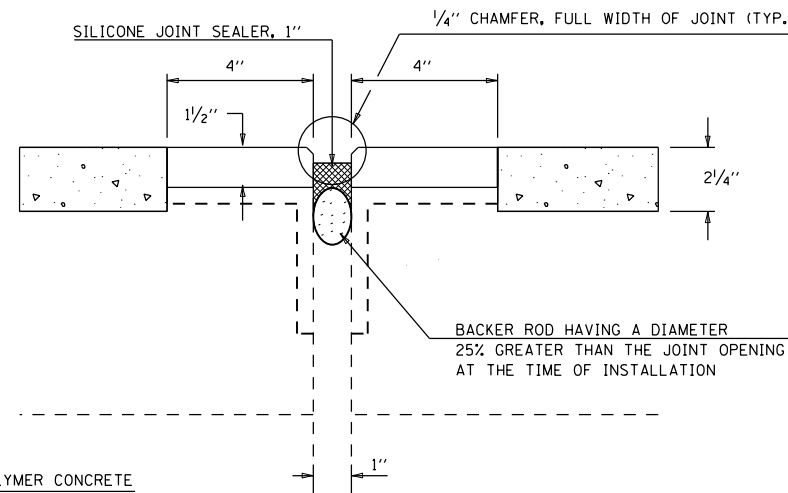
SECTION B-B AT PIER 2



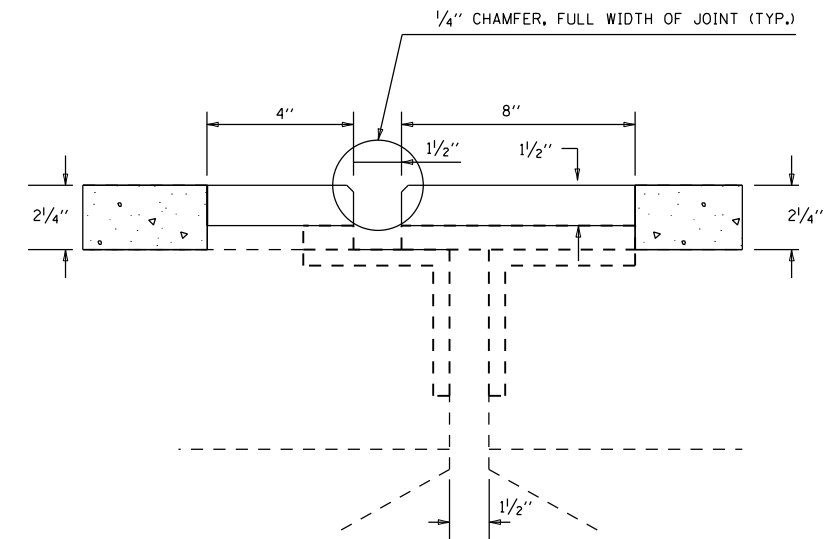
SECTION C-C AT PIERS 1 & 3



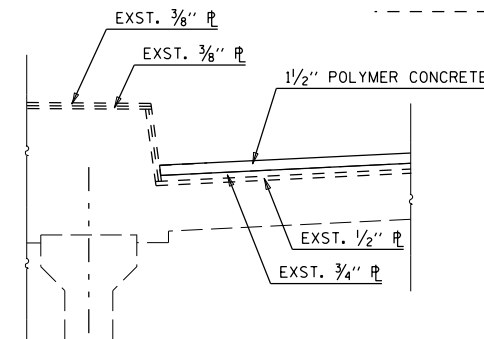
DETAIL AT PLATE



DETAIL AT PLATE



DETAIL AT PLATE



DETAIL AT CURB

BILL OF MATERIALS

ITEM	UNIT	TOTAL
POLYMER CONCRETE	CU FT	19.1
SILICONE JOINT SEALER, 1"	FOOT	33.0

FILE NAME =	USER NAME = shererjm	DESIGNED - JMS	REVISED -
pw:\planroom.dot.illinois.gov\PWIDOT\Documents\IDOT Offices\District 5\Projects\D570B92-010-0175	DRAWN to Structure	MSD570B92-sht-010-0175	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED -	REVISOR -	REVISOR -
PLOT DATE = 11/25/2019	DATE - 030518	REVISOR -	REVISOR -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

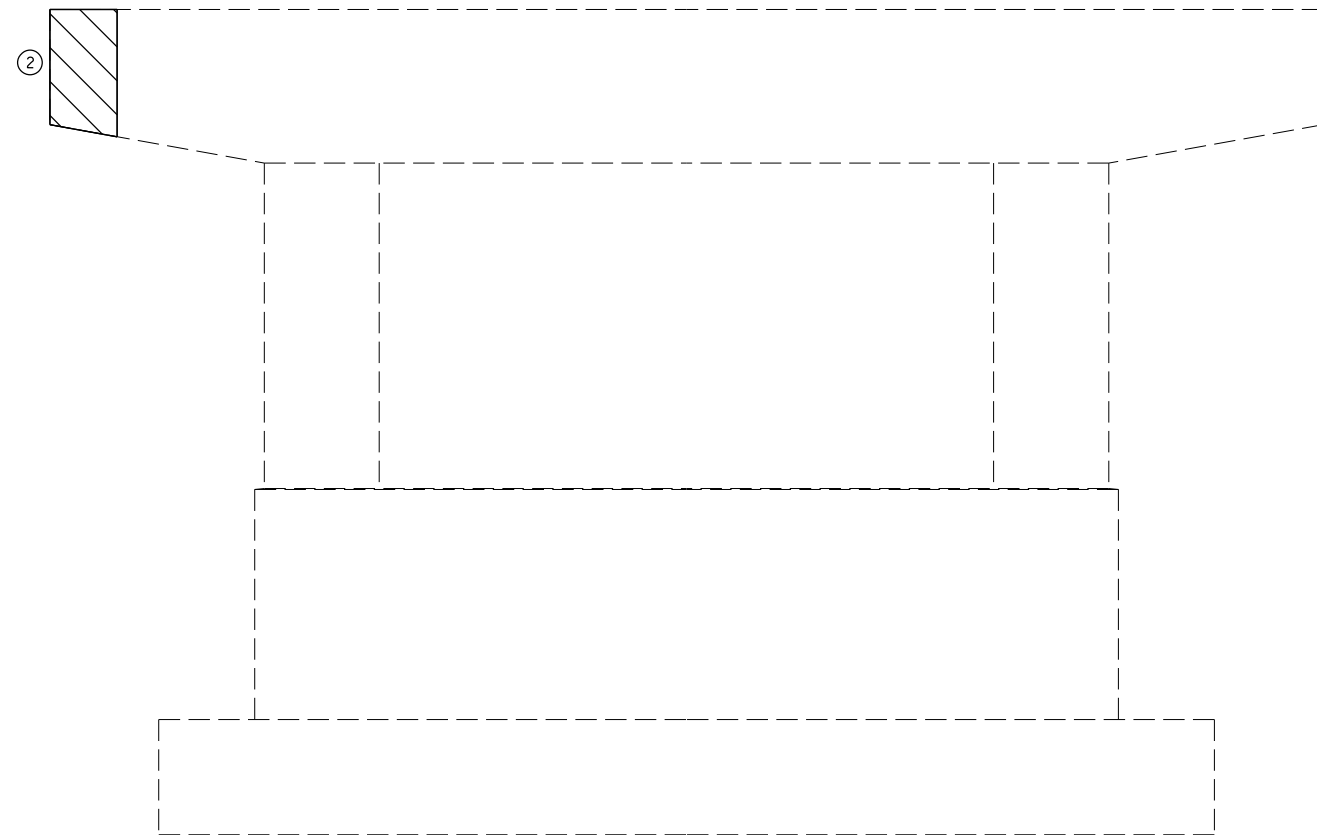
DETAIL OF EXPANSION JOINTS
S.N. 010-0175

SCALE: NONE SHEET NO. 8 OF 10 SHEETS STA. TO STA.

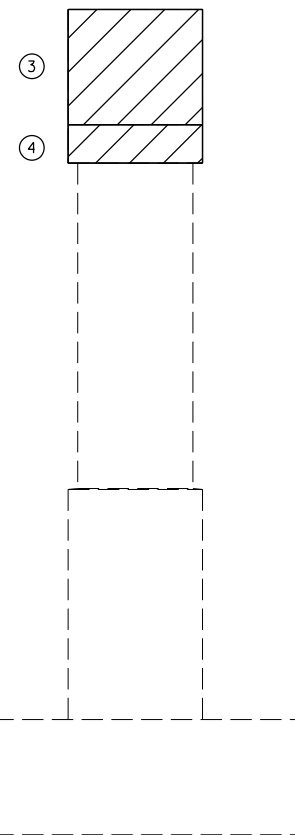
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-6.7)BDR	CHAMPAIGN	99	75
CONTRACT NO. 70B92				
ILLINOIS FED. AID PROJECT				



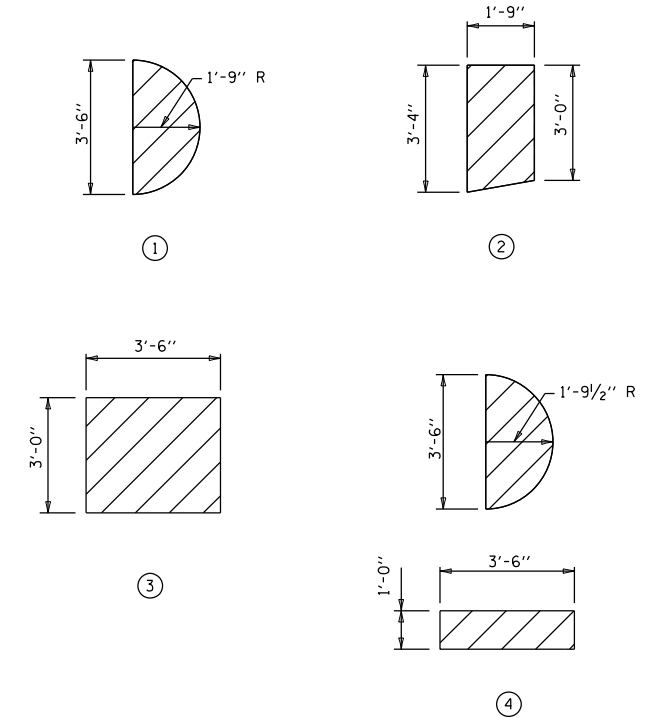
PLAN VIEW
PIER 3



ELEVATION VIEW
PIER 3



END ELEVATION VIEW
PIER 3



NOTES:

REPAIRS SHOULD NOT ENCRoACH WITHIN 2" OF ANY BEARING PLATE.

BILL OF MATERIALS

ITEM	UNIT	TOTAL
STRUCTURAL REPAIR OF CONCRETE $\frac{1}{2}$ 5"	SO FT	35.0

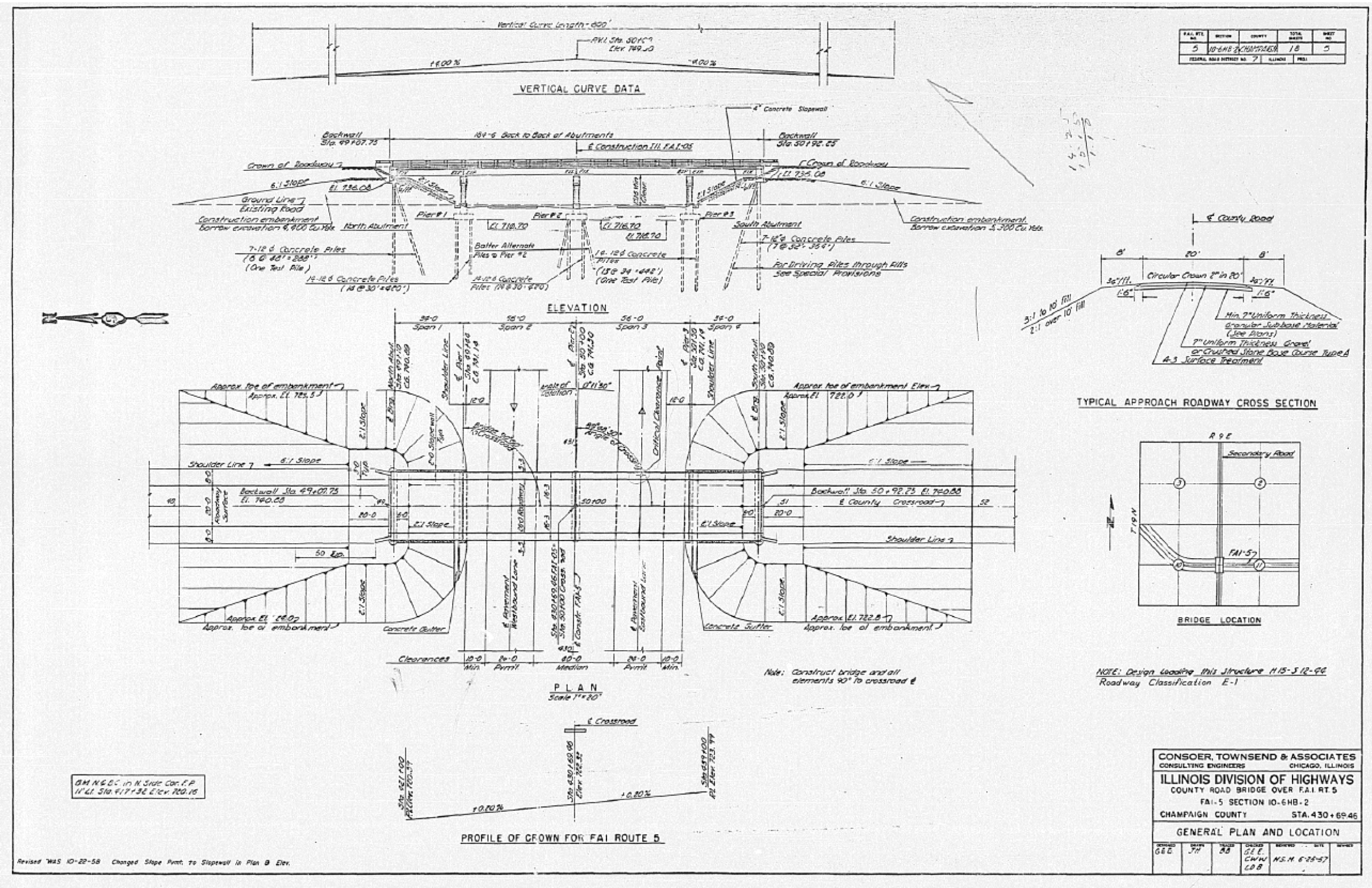
FILE NAME =	USER NAME = shererjm	DESIGNED - JMS	REVISED -
p:\planroom\dot.illinois.gov\PIDOT\Documents\IDOT Offices\District 5\Projects\057089\BDR\to\Structural\MSD570892-sht-010-0175	DRAWN BY =	CHECKED -	REVISED -
	PLOT SCALE = 40.0000' / in.	DATE - 030518	REVISED -
	PLOT DATE = 5/1/2019		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAIL OF STRUCTURAL CONCRETE REPAIR
S.N. 010-0175

SCALE: NONE SHEET NO. 10 OF 10 SHEETS STA. TO STA.

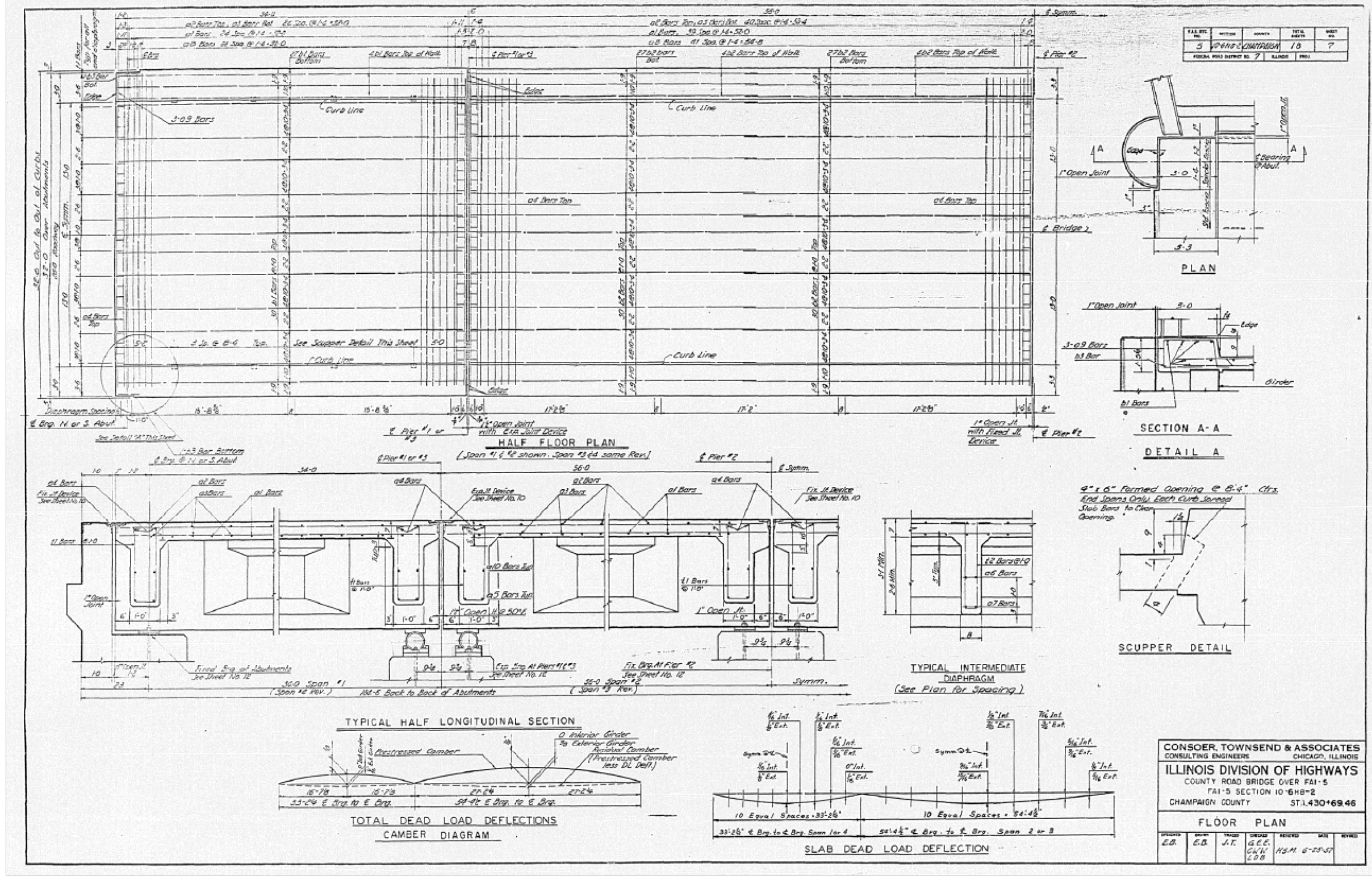
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-6.7)BDR	CHAMPAIGN	99	77
				CONTRACT NO. 70B92
ILLINOIS FED. AID PROJECT				



DM N&C in N Side Cor. P.P.
11+41 Sta. 417+36 Elev. 720.15

Revised WAS 10-22-58 Changed Slope from to Slopewall in Plan & Elev.

FILE NAME =	USER NAME = shererjm	DESIGNED - JMS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	AS-BUILT PLANS (INFORMATION ONLY) S.N. 010-0175	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
px:\planroom.dot.illinois.gov\PIDOT\Documents\DOT Offices\District 5\Projects\057089\DRANN\to\Struct\MSD570892-sht-010-0175	DRANN	CHECKED -	REVISED -			74	(10-6.7)BDR	CHAMPAIGN	99	78	
PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -	SCALE: 1" = 20'			SHEET NO. 1 OF 6 SHEETS	STA.	TO STA.	CONTRACT NO. 70B92		
PLOT DATE = 5/1/2019	DATE - 021318	REVISED -	ILLINOIS FED. AID PROJECT								

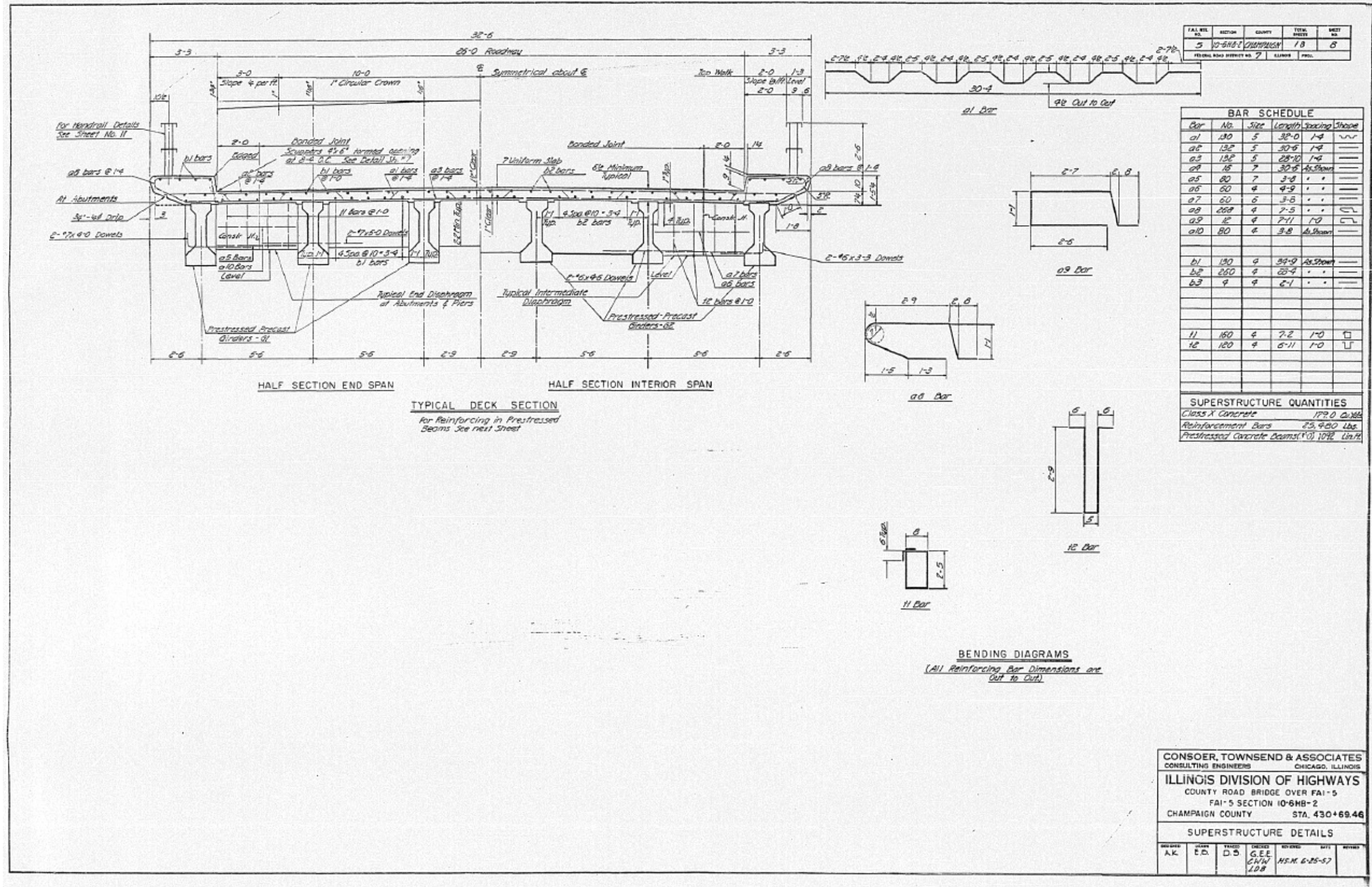


FILE NAME =	USER NAME = shererjm	DESIGNED - JMS	REVISED -
PROJECT =	PROJECT =	CHECKED -	REVISED -
PLOT SCALE = 40.0000' / in.	DATE = 021318		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS (INFORMATION ONLY)
S.N. 010-0175
SCALE: 1" = 20' SHEET NO. 2 OF 6 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-6.7)BDR	CHAMPAIGN	99	79
CONTRACT NO. 70B92				
ILLINOIS FED. AID PROJECT				

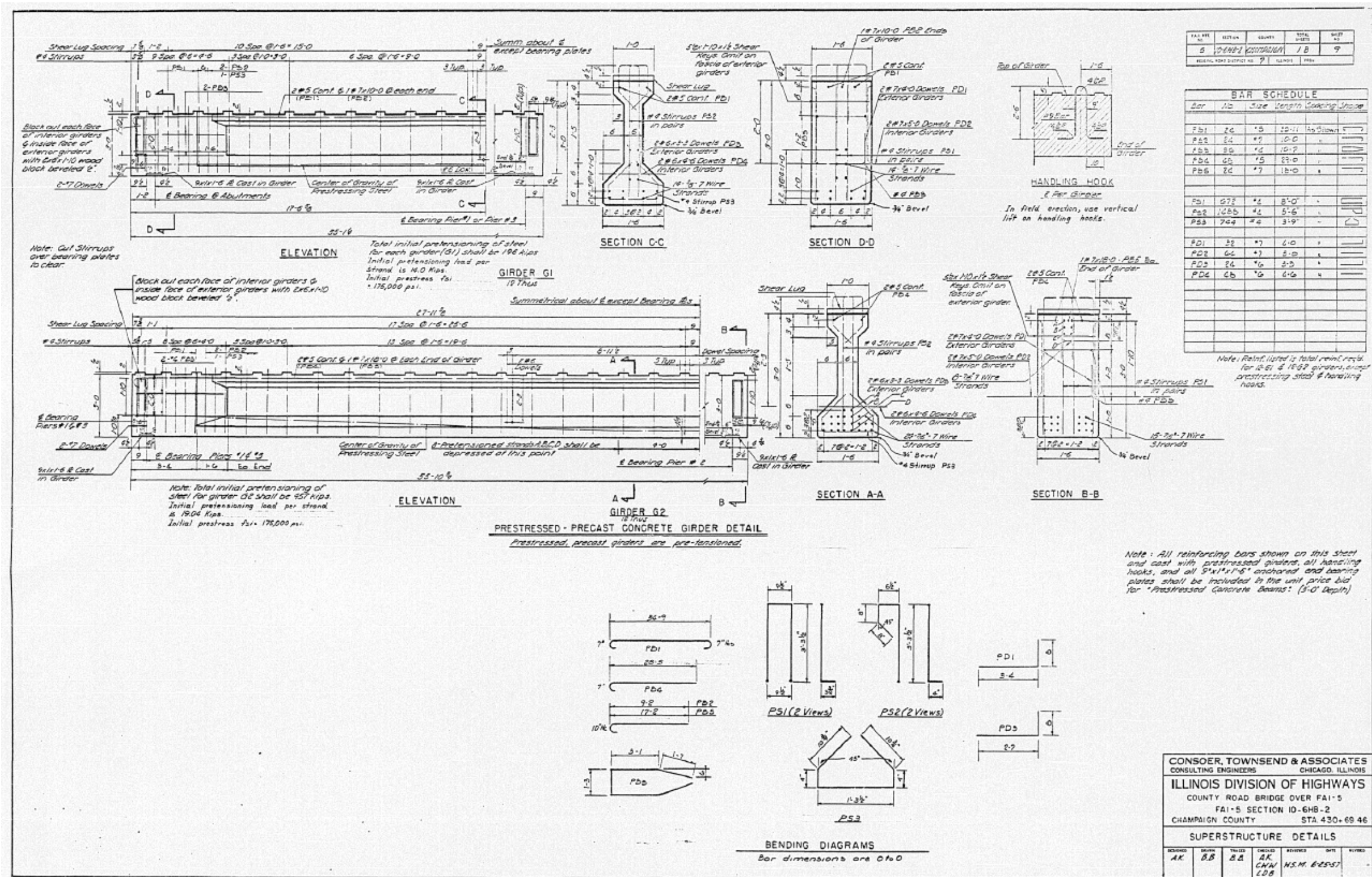


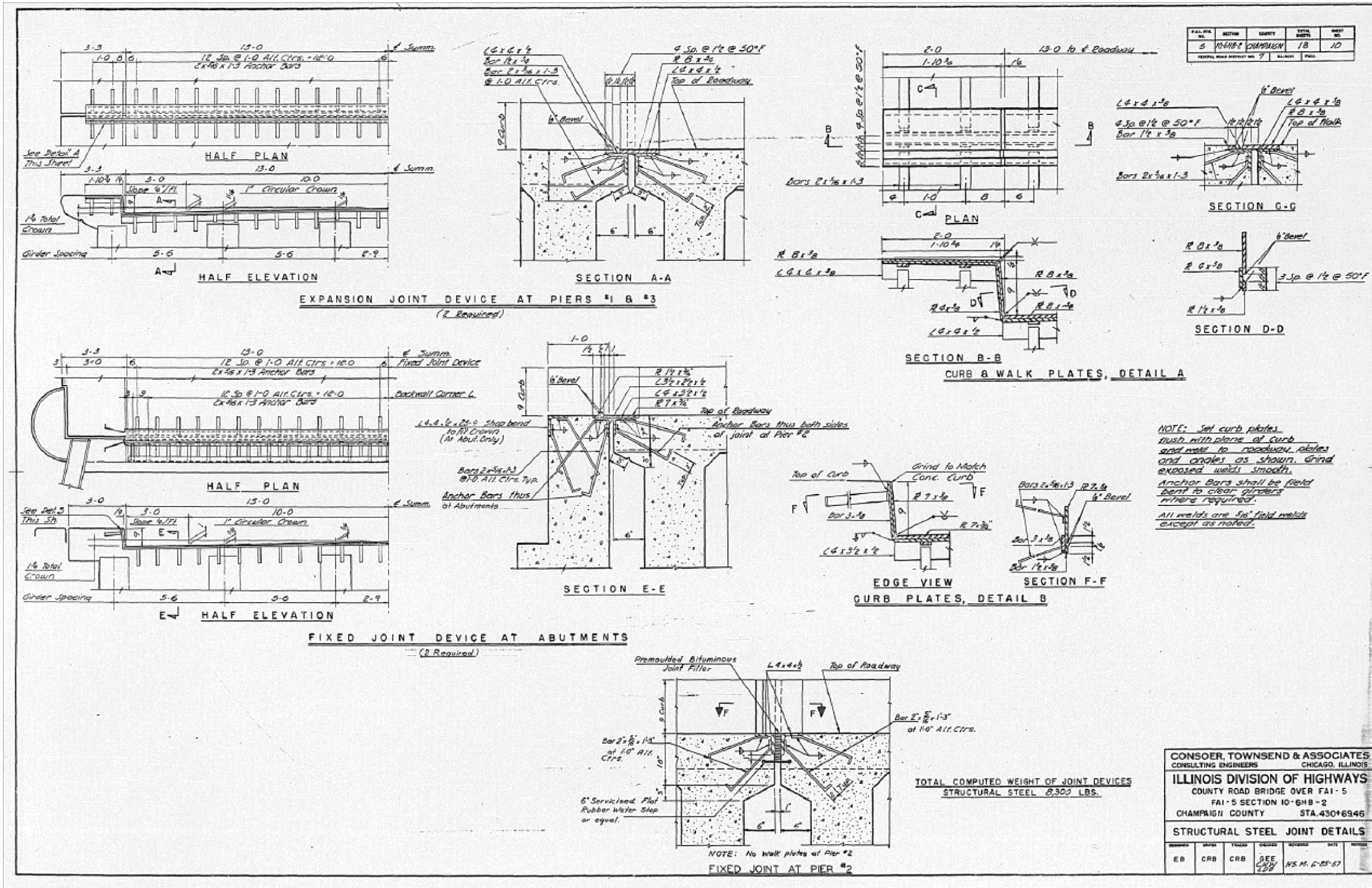
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px:\planroom.dot\illinois.gov\PWIDOT\Documents\IDOT Offices\District 5\Projects\057088\DRWING\Struct\MSD570892-sht-010-0175		CHECKED -	REVISED -
		DATE - 021318	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS (INFORMATION ONLY)
S.N. 010-0175
SCALE: 1" = 20'
SHEET NO. 3 OF 6 SHEETS
STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-6.7)BDR	CHAMPAIGN	99	80
CONTRACT NO. 70B92			ILLINOIS FED. AID PROJECT	





FILE NO.	SECTION	SHEET	TOTAL SHEETS	SHEET NO.
5	10-6.7	CHAMPAIGN	18	10

NOTE: Set curb plates flush with plane of curb and weld to roadway plates and angles as shown. Grind exposed welds smooth. Anchor Bars shall be field bent to clear girders where required. All welds are 5/16" field welds except as noted.

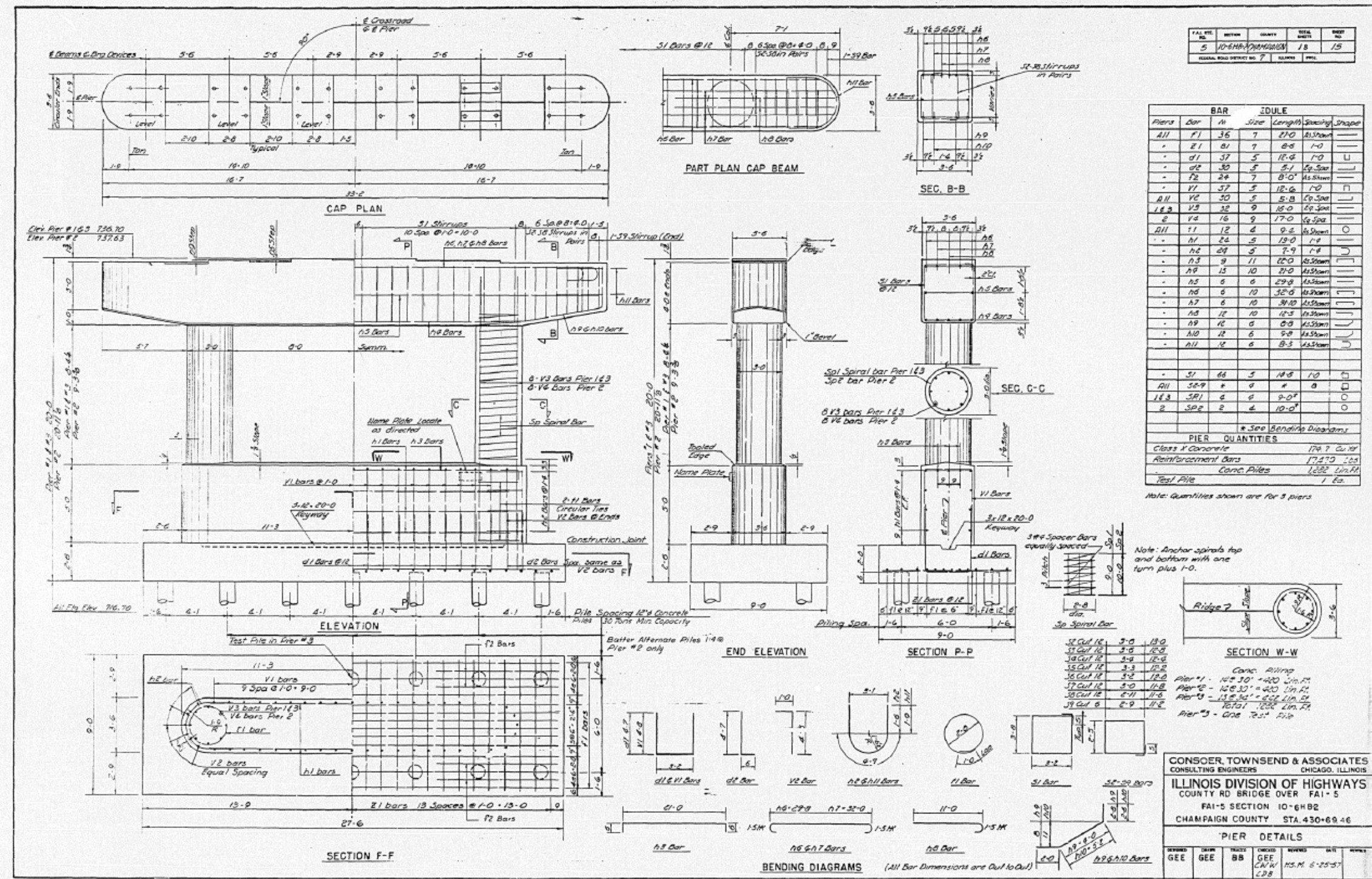
CONSOER, TOWNSEND & ASSOCIATES CONSULTING ENGINEERS CHICAGO, ILLINOIS				
ILLINOIS DIVISION OF HIGHWAYS				
COUNTY ROAD BRIDGE OVER FAI-5				
FAI-5 SECTION 10-6HB-2				
CHAMPAIGN COUNTY STA. 430+69.46				
STRUCTURAL STEEL JOINT DETAILS				
DESIGNED	CHECKED	DATE	BY	REVISION
JMS	SEE SHEET	02/13/18	H.S.M. C-25-57	

FILE NAME =	USER NAME = shererjm	DESIGNED - JMS	REVISED -
px:\planroom.dot.illinois.gov\PIDOT\Documents\1007 Offices\District 5\Projects\05708B\DRWING\Structural\MSD570892-sht-010-0175		CHECKED -	REVISED -
PLOT SCALE = 40.0000' / in.		DATE - 02/13/18	REVISED -
PLOT DATE = 5/1/2019			

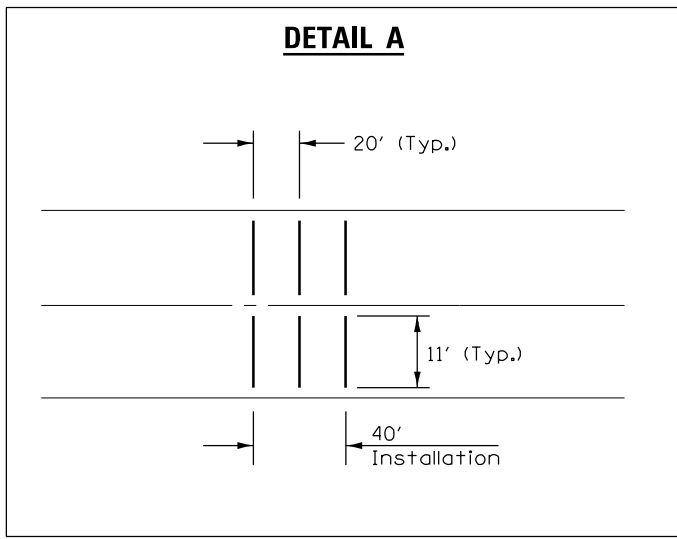
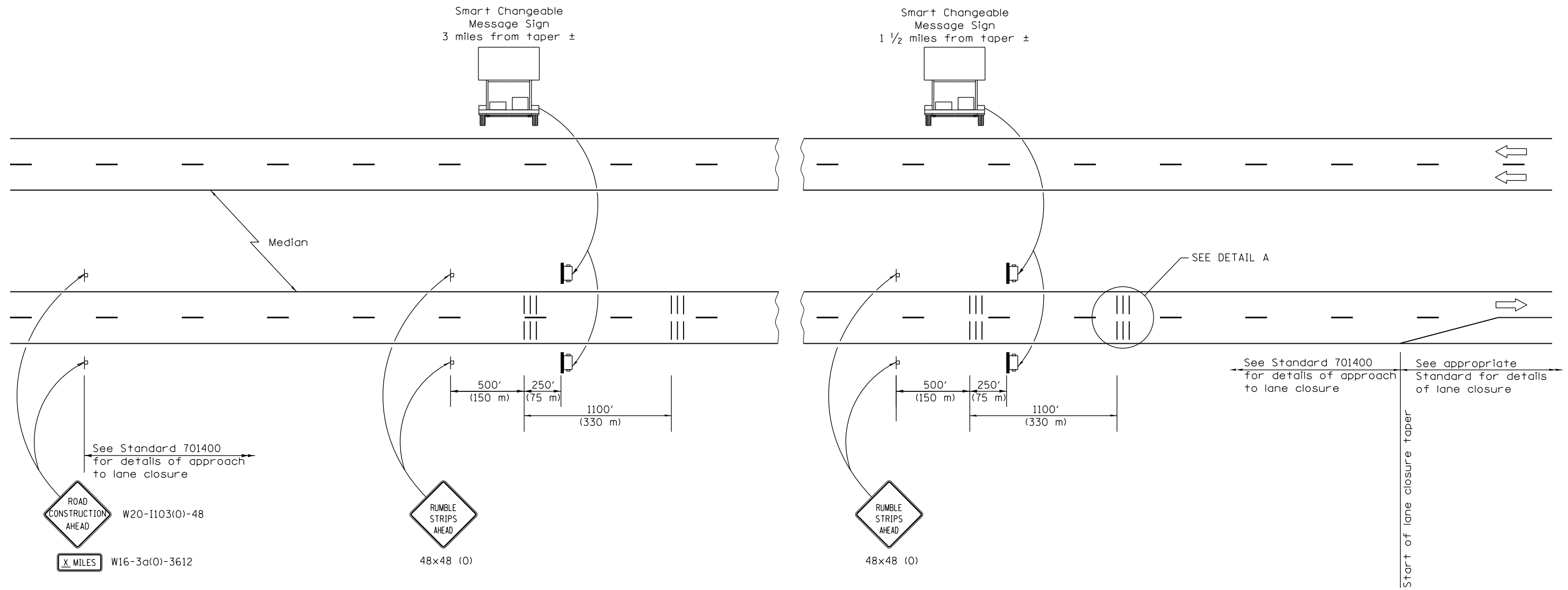
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS (INFORMATION ONLY)
S.N. 010-0175
SCALE: 1" = 20'
SHEET NO. 5 OF 6 SHEETS
STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-6.7)BDR	CHAMPAIGN	99	82
CONTRACT NO. 70B92				
ILLINOIS FED. AID PROJECT				



DETAIL FOR TEMPORARY RUMBLE STRIPS (SPECIAL)



SYMBOLS

- ┆ Sign
- ||| Temporary Rumble Strips (Special)
- ☐ Trailer Mounted Sign

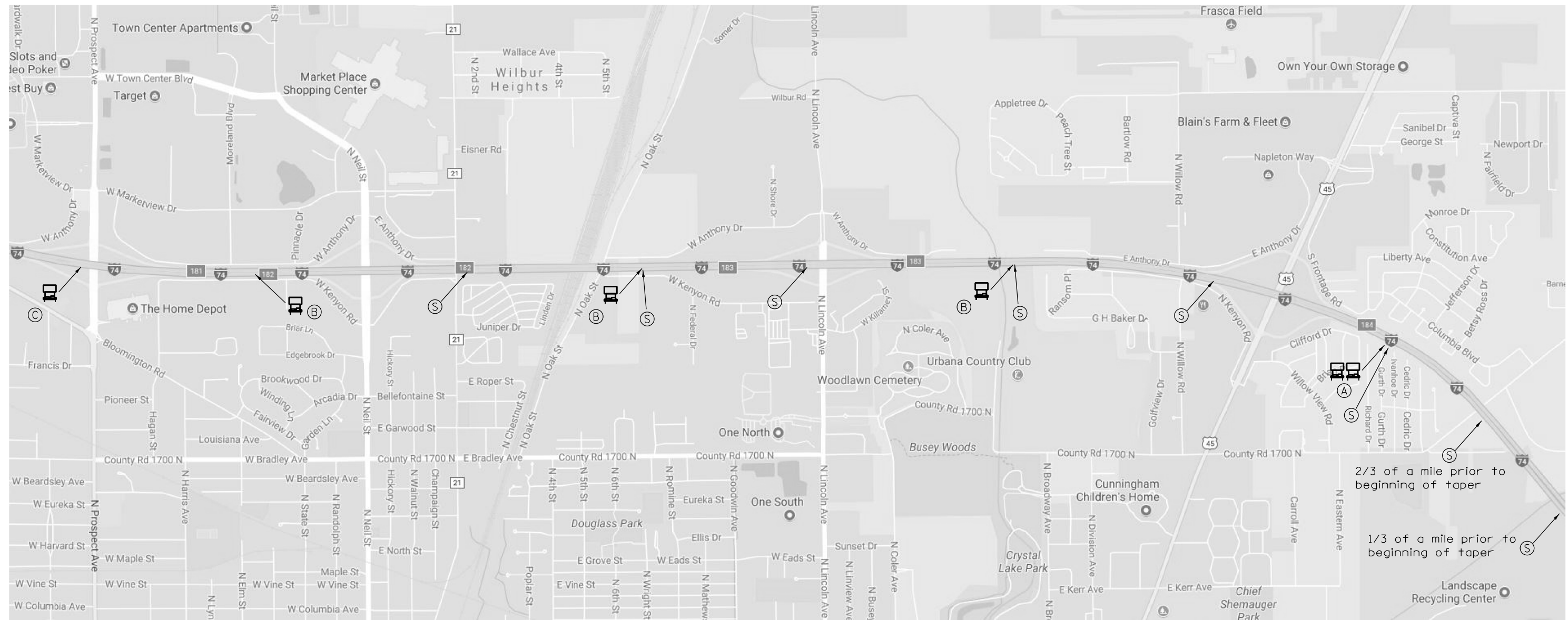
GENERAL NOTES


Remove the Temporary Rumble Strips (Special) prior to the removal of the advanced warning signs.

All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = shererjm	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETAIL FOR TEMPORARY RUMBLE STRIPS (SPECIAL)	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
pw:\planroom.dot.illinois.gov\PIDOT\Documents\IDOT Offices\District 5\Projects\D5708B92\DRAWING\Structures\D5708B92-sht-WRS.dgn		REVISIONS	REVISIONS			74	(10-6.7)BDR	CHAMPAIGN	99	84	
\$MODELNAME\$	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISIONS			CONTRACT NO. 70B92					
	PLOT DATE = 5/1/2019	DATE -	REVISIONS			ILLINOIS FED. AID PROJECT					
					SCALE: N.T.S.	SHEET	OF	SHEETS	STA.	TO STA.	

WORK ZONE SMART TRAFFIC MONITORING SYSTEM



- (A)  Dual Portable Changeable Message Signs with traffic sensors
•Paid for as Real-Time Traffic Control Sensor Unit
- (B)  Single Portable Changeable Message Sign with traffic sensors
•Paid for as Real-Time Traffic Control Sensor Unit
- (C)  Single Portable Changeable Message Sign placed 1/2 mile in advance of 4th RTCS board. It shall read "RIGHT/LEFT LANE CLOSED/5 MILES AHEAD"
•Paid for as Changeable Message Sign
- (S)  Speed Sensor

Note:

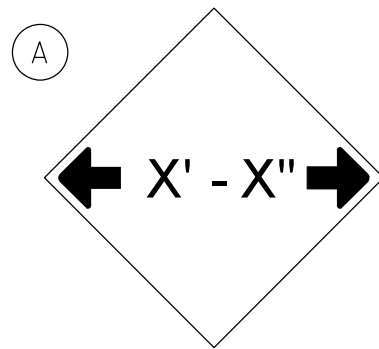
Portable Changeable Message Signs shall be as described in the WORK ZONE SMART TRAFFIC MONITORING SYSTEM Special Provision.

The number of Portable Changeable Message Signs (PCMSs) may be changed as directed by the Engineer. These additional PCMSs shall be paid for at the contract unit price by Calendar Month for Portable Changeable Message Signs and shall meet the requirements set forth in the special provision for Work Zone Smart Traffic Monitoring System.

FILE NAME =	USER NAME = shererjm	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SMART TRAFFIC MONITORING SYSTEM	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
DRAWN TO: Structures\0570892-sht-WRS.dgn				SCALE: N.T.S.	SHEET OF SHEETS	74	(10-6.7)BDR	CHAMPAIGN	99	85
PLOT SCALE = 40.0000' / in.				STA. TO STA.	CONTRACT NO. 70B92					
PLOT DATE = 5/1/2019				ILLINOIS FED. AID PROJECT						

DESIGNER NOTE: PROVIDE MAP WITH SIGN LOCATIONS (A, B, ETC.) AND COORDINATE WITH TRAFFIC OPERATIONS ENGINEER.

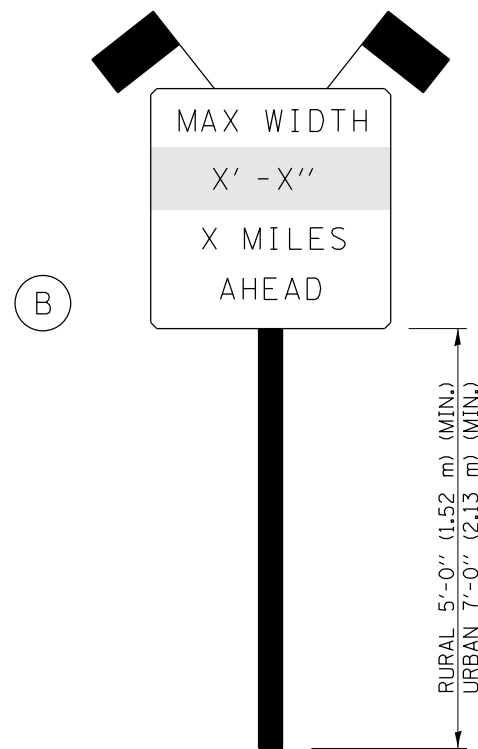
INCLUDE DISTRICT SPECIAL PROVISION - "WIDTH RESTRICTION SIGNING"



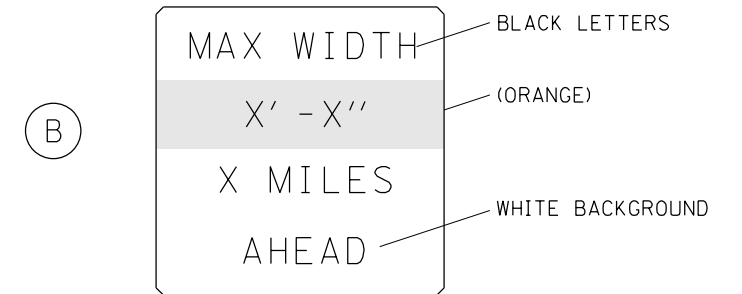
W12-2(O)-48"x48"(1200x1200)

SIGN (A) 2 SIGNS - W12-2(O)-48"x48"(1200x1200) ARE TO BE PLACED AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER.

SIGN (B) 2 SIGNS - (SIGN PANEL, TYPE II) AS SHOWN ARE TO BE PLACED AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER.



SIGN PANEL, TYPE II



W12-I103(O)-48"x48"(1200x1200)
"D" LETTERS/NUMBERS

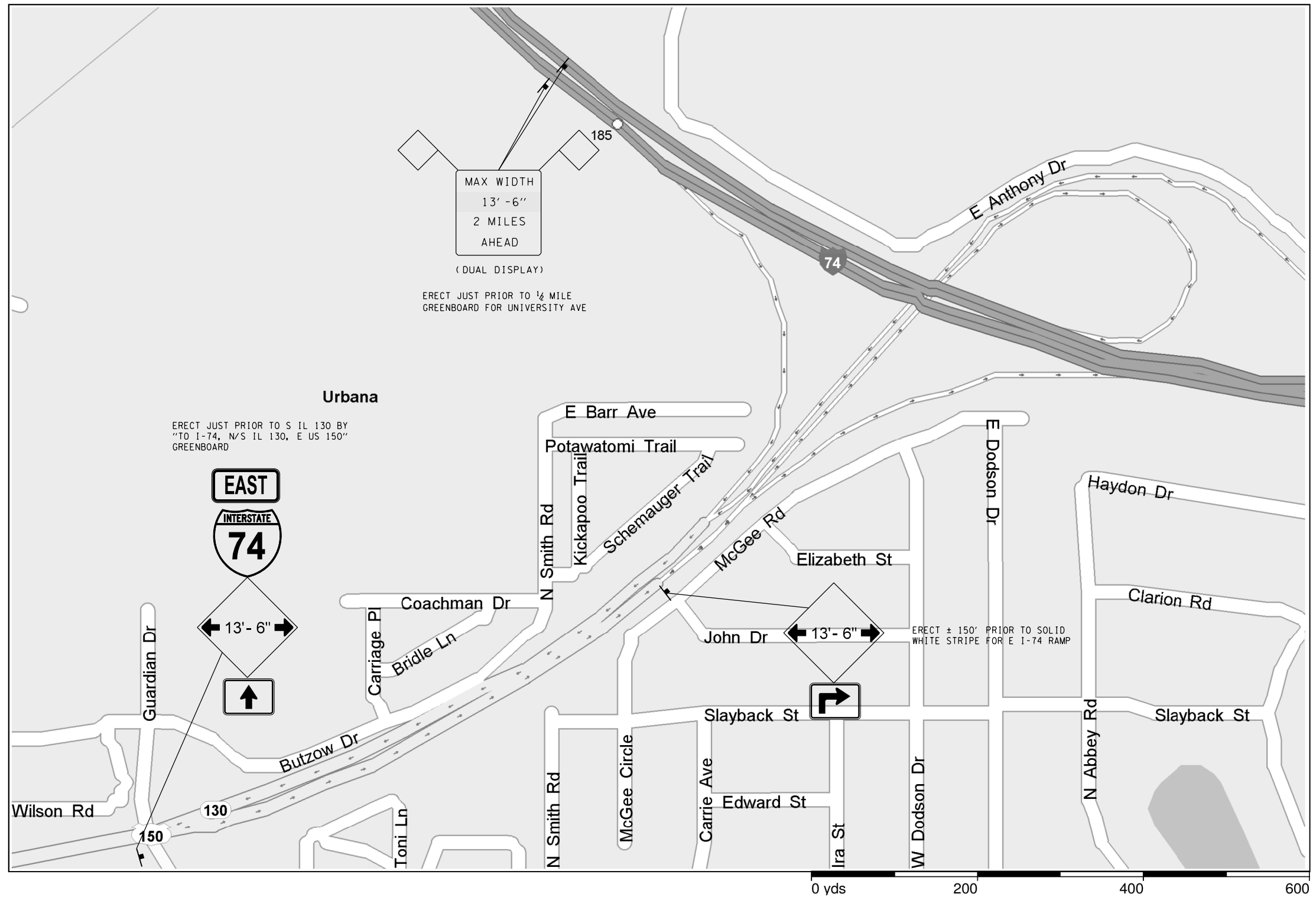
GENERAL NOTES

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

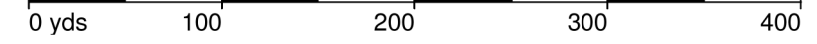
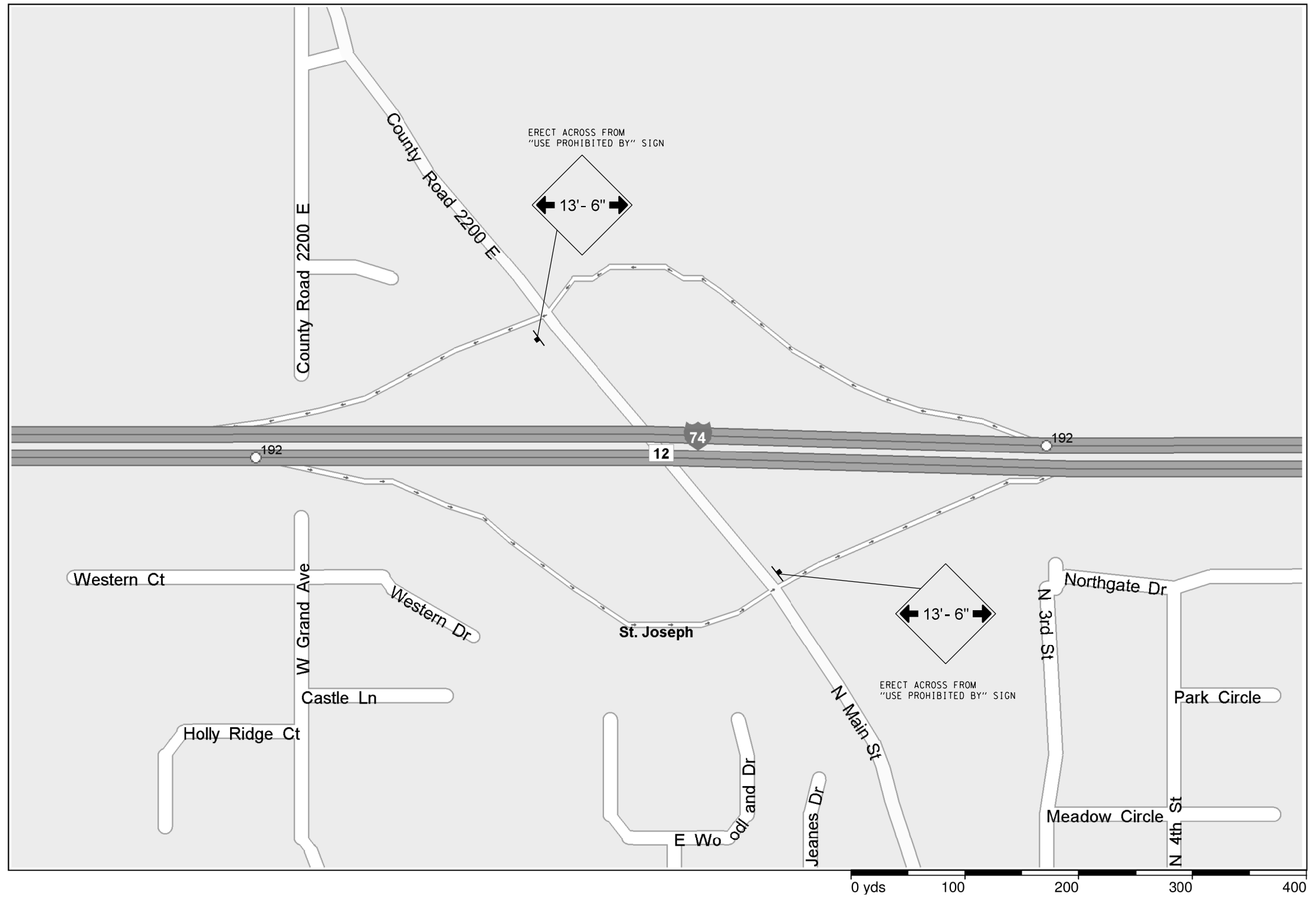
Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 5 DETAIL NO. X7200201

FILE NAME =	USER NAME = sherer,jm	DESIGNED -	REVISED - 03/11 -KJT	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WIDTH RESTRICTION SIGNING			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pet\planroom.do\illinois.gov\PI00T\Documents\IDOT Offices\District 5\Projects\0570892\BDR\Drawings\Structures\0570892-sht-WRS.dgn	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED - 05/08					74	(10-6,7)BDR	CHAMPAIGN	99	87
PLOT DATE = 5/1/2019	DATE -	REVISED - 10/08 - KJT	REVISED - 7/09 - KJT		SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
								CONTRACT NO. 70B92				



FILE NAME =	USER NAME = shererjm	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WIDTH RESTRICTION DETAIL S.N. 010-0031 & 010-0032			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
p:\planroom\dot\illinois.gov\PIDOT\Documents\IDOT Offices\District 5\Projects\057089\Drawings\Structures\0570892-sht-WRS.dgn		DRAWN -	REVISED -		74	(10-6,7)BDR	CHAMPAIGN	99	88	CONTRACT NO. 70B92		
MODELNAME	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -		SCALE: N.T.S.	SHEET 1	OF 3 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		
	PLOT DATE = 5/1/2019	DATE -	REVISED -									



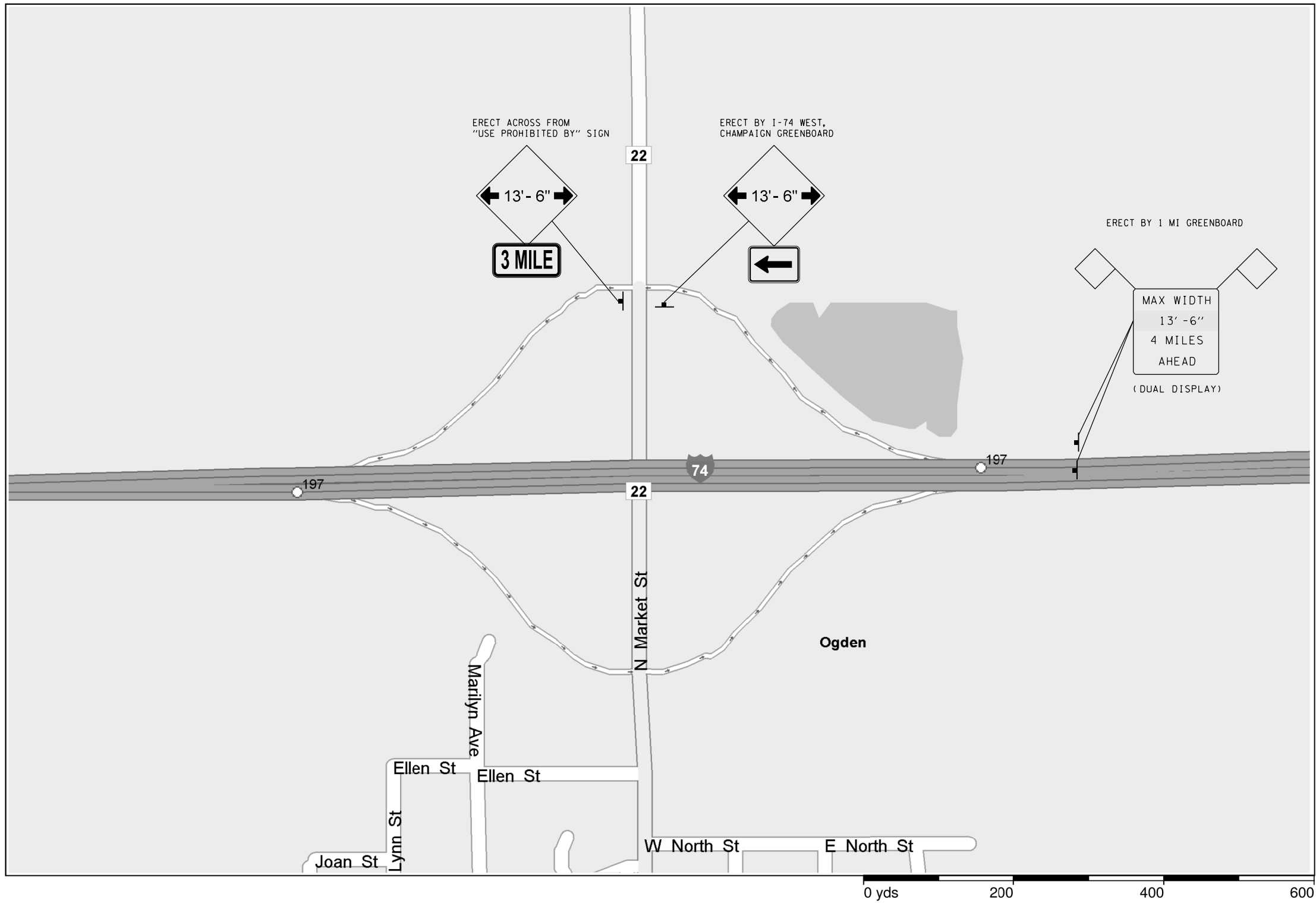
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	PLOT DATE = 5/1/2019	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

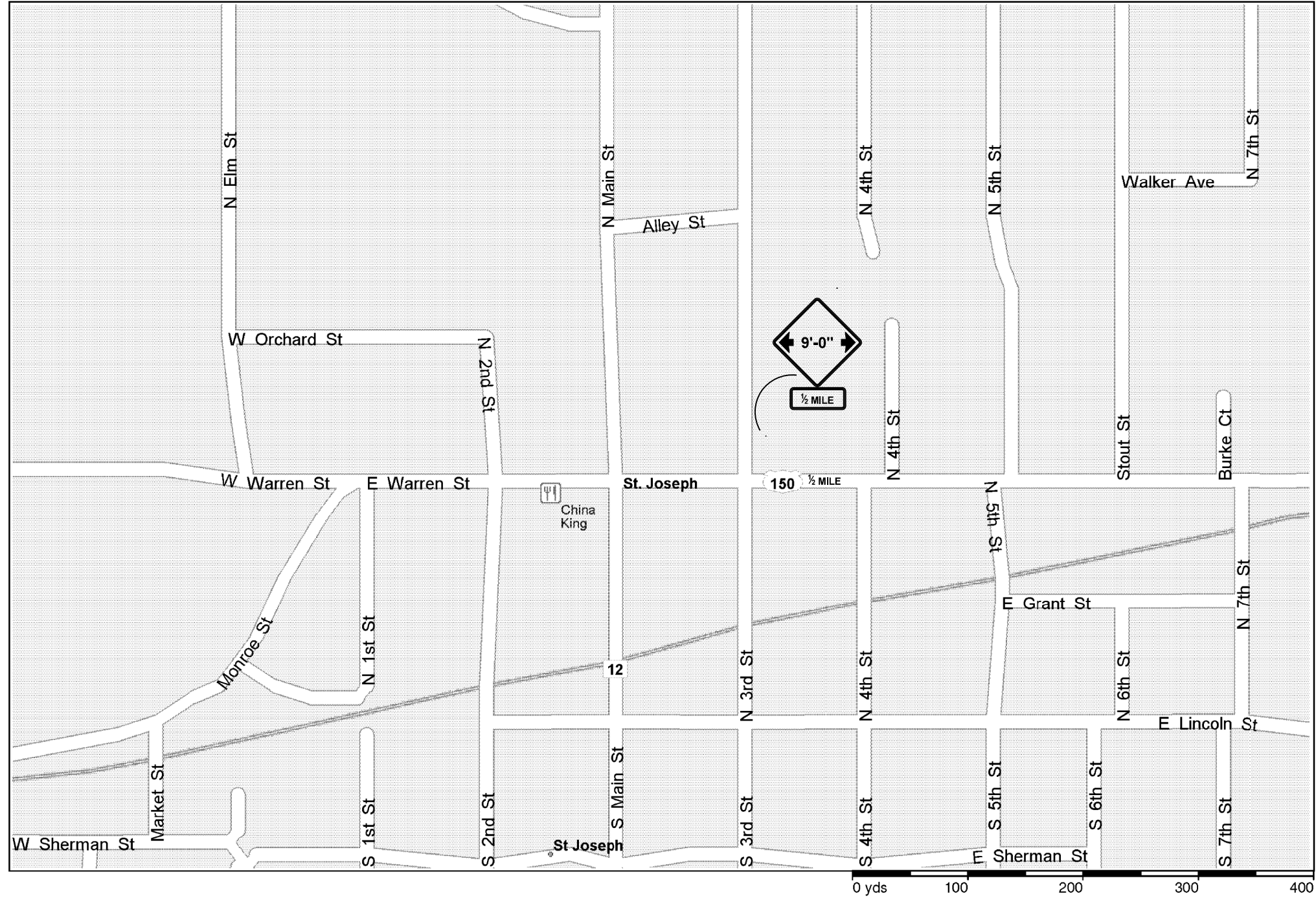
WIDTH RESTRICTION DETAIL S.N. 010-0031 & 010-0032

SCALE: N.T.S. SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-6,7)BDR	CHAMPAIGN	99	89
CONTRACT NO. 70B92			ILLINOIS FED. AID PROJECT	



FILE NAME =	USER NAME = shererjm	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WIDTH RESTRICTION DETAIL S.N. 010-0031 & 010-0032			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\planroom.dot\illinois.gov\PIDOT\Documents\IDOT Offices\District 5\Projects\0570892\Drawings\Structures\0570892-sht-WRS.dgn	DRAWN -	REVISED -	74					(10-6,7)BDR	CHAMPAIGN	99	90	
MODELNAME	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -		SCALE: N.T.S. SHEET 3 OF 3 SHEETS STA. TO STA.			CONTRACT NO. 70B92				
	PLOT DATE = 5/1/2019	DATE -	REVISED -		ILLINOIS FED. AID PROJECT							



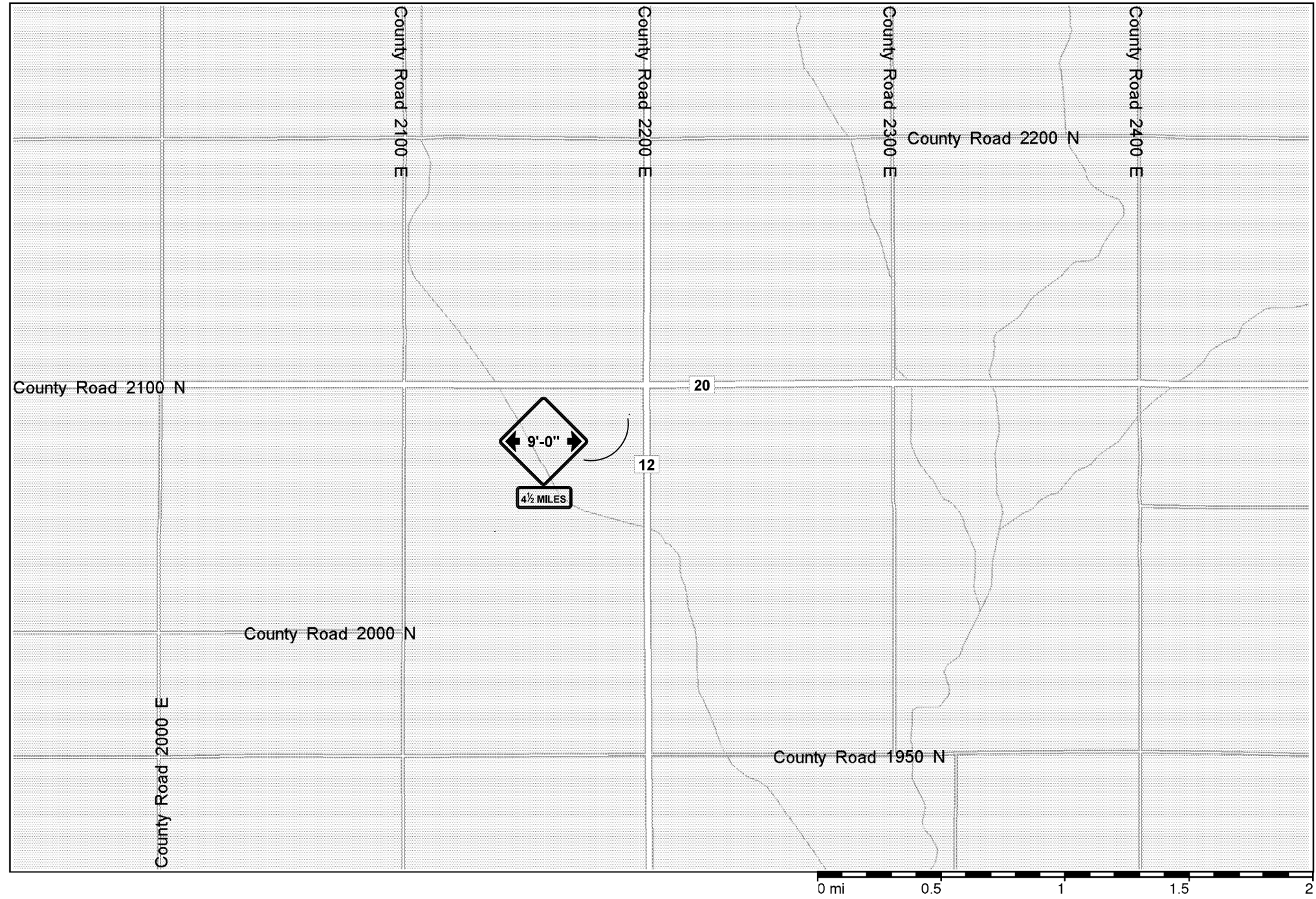
MODEL: \\MODELS\NAMES
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USER NAME = shererjm	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 5/1/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WIDTH RESTRICTION SIGNING DETAIL S.N. 010-0089 U.S. 150 /C.H. 12			
SCALE:	SHEET 1	OF 4 SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-6.7)BDR	CHAMPAIGN	99	91
ILLINOIS FED. AID PROJECT			CONTRACT NO. 70B92	



MODEL: \\MODELS\NAMES
 FILE NAME: \\pww\pww\com\dot\Illinois\gov\PHUDOT\Documents\DOT_Offices\Bldgdet_3\Project\0570892_CADD\Bldg\Structures\0570892-01-NRS.dgn

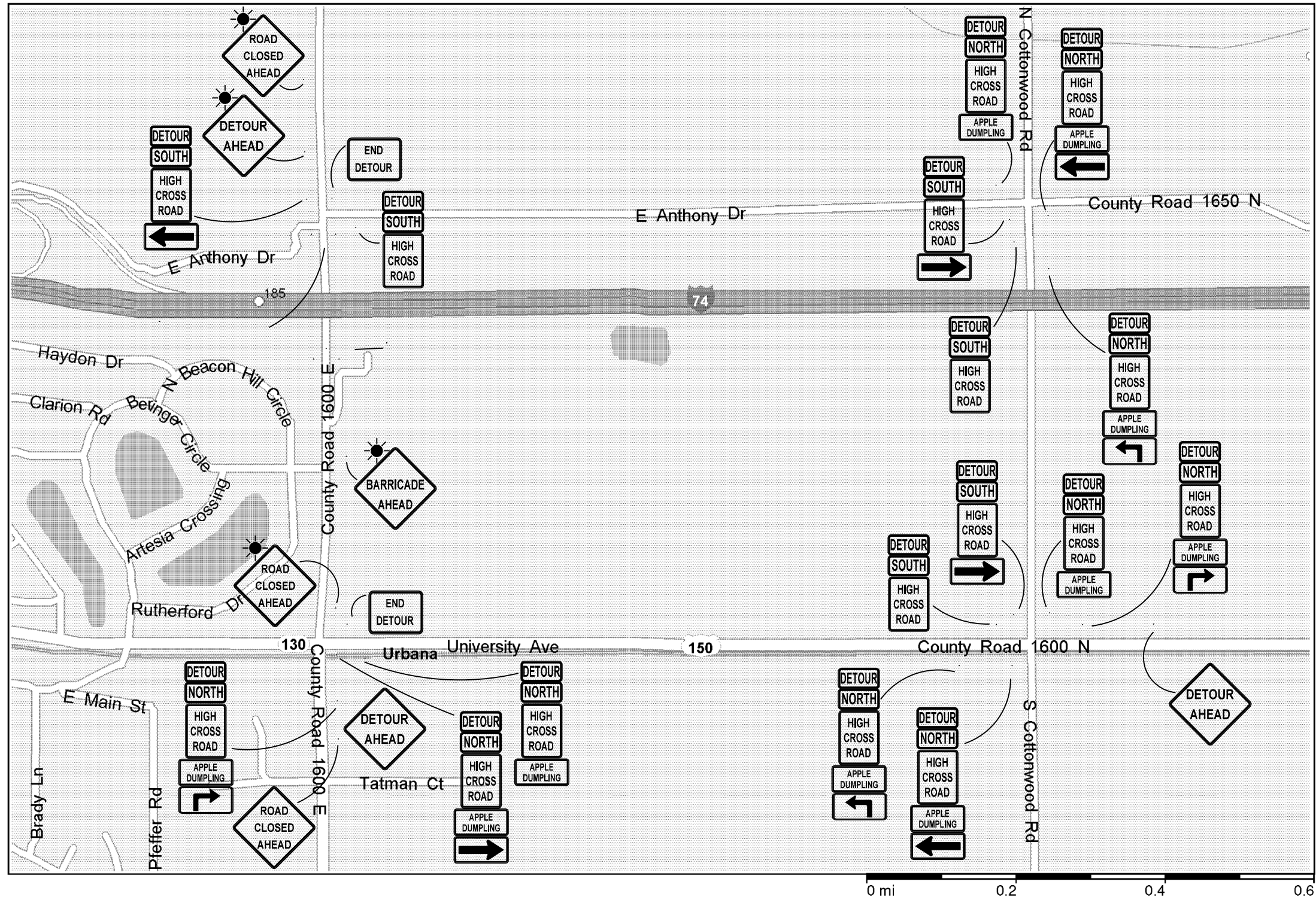
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	DRAWN -	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 5/1/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WIDTH RESTRICTION SIGNING DETAIL S.N. 010-0089
C.H. 12 /C.H. 20

SCALE: SHEET 2 OF 4 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-6,7)BDR	CHAMPAIGN	99	92
CONTRACT NO. 70B92				
ILLINOIS FED. AID PROJECT				



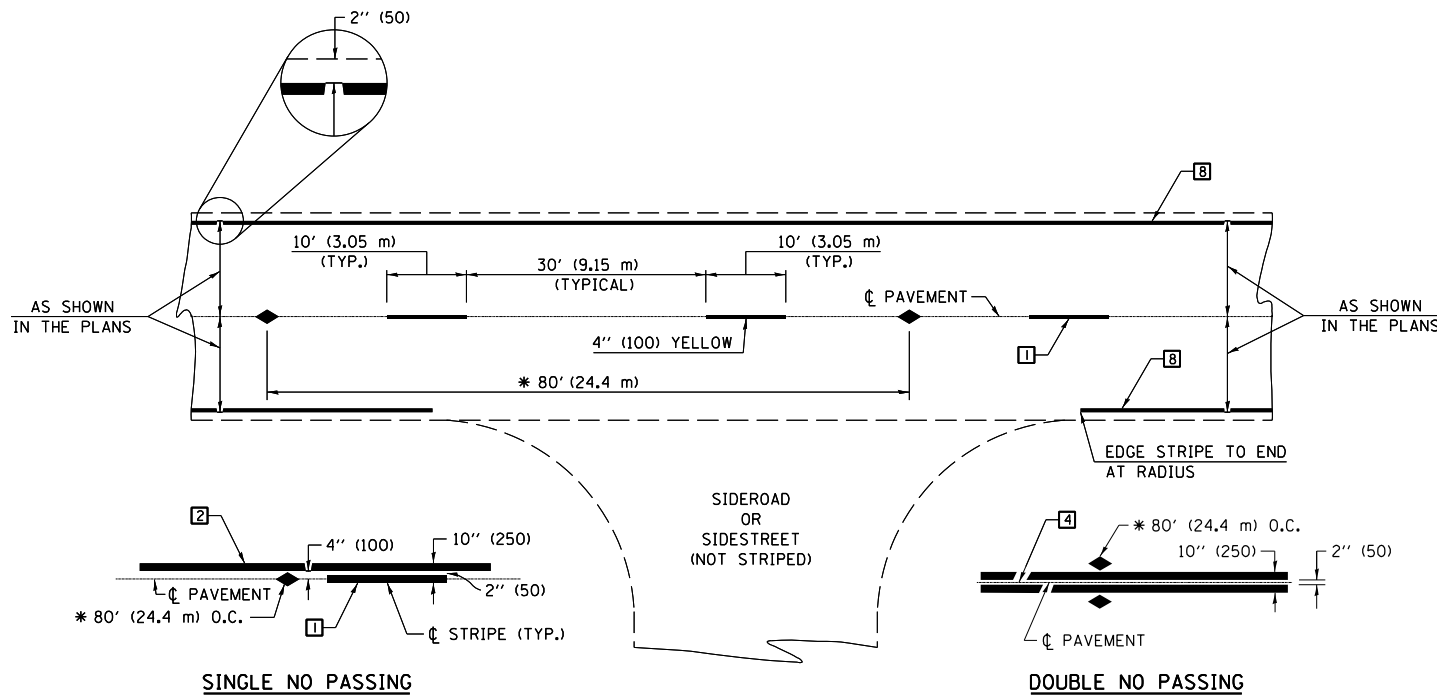
MODEL: \\MODELS\MAME5
 FILE: MAME5_Plan\I100\DOT\Documents\DOT_Offices\Bartlett_S\Projects\0570892\CADD\Drawings\Structures\0570892-ph-MS.dgn

USER NAME = sherrjrm	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 10/6/2019	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

DETOUR SIGNING DETAIL S.N. 010-0175 C.H. 12 (HIGH CROSS ROAD) OVER I-74	
SCALE:	SHEET 4 OF 4 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-6.7)BDR	CHAMPAIGN	99	94
			CONTRACT NO. 70B92	
ILLINOIS FED. AID PROJECT				



* REDUCE TO 40' (12.2 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEEDS OF 45 mph (70 km/h) OR LESS.

TWO LANE/TWO WAY

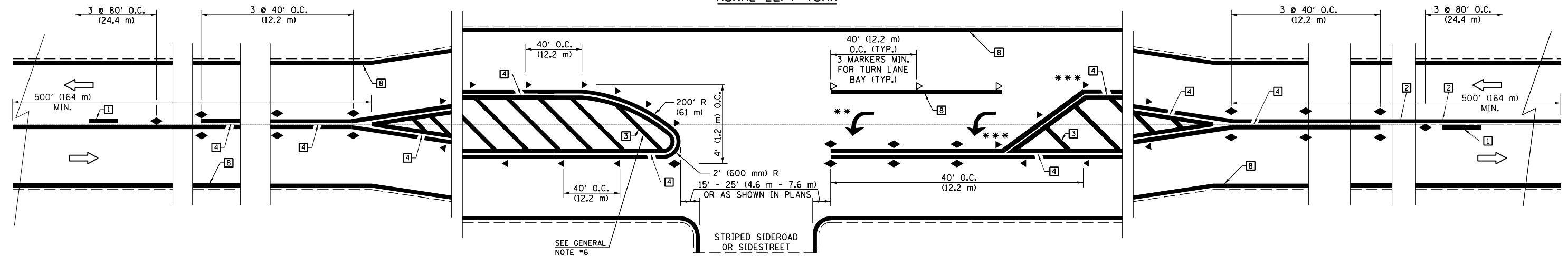
TYPICAL PAVEMENT MARKING LEGEND

- 1 4" (100) SKIP-DASH (YELLOW)
- 2 4" (100) SOLID (YELLOW)
- 3 12" (300) DIAGONAL (YELLOW)
- 4 4" (100) DOUBLE YELLOW (NARROW)
- 5 RESERVED
- 6 RESERVED
- 7 4" (100) SKIP-DASH (WHITE)
- 8 4" (100) SOLID (WHITE)
- 9 12" (300) DIAGONAL (WHITE)
- 10 6" (150) SOLID (WHITE)
- 11 24" (600) STOP BAR (WHITE)
- 12 8" (200) SOLID (WHITE)
- 13 4" (100) LANE LINE EXTENSIONS (WHITE)
- 14 4" (100) PARKING WHITE

TYPICAL PAVEMENT MARKERS LEGEND

- ◆ TWO-WAY AMBER MARKER
- ▶ ONE-WAY AMBER MARKER
- ▷ ONE-WAY CRYSTAL MARKER

RURAL LEFT TURN



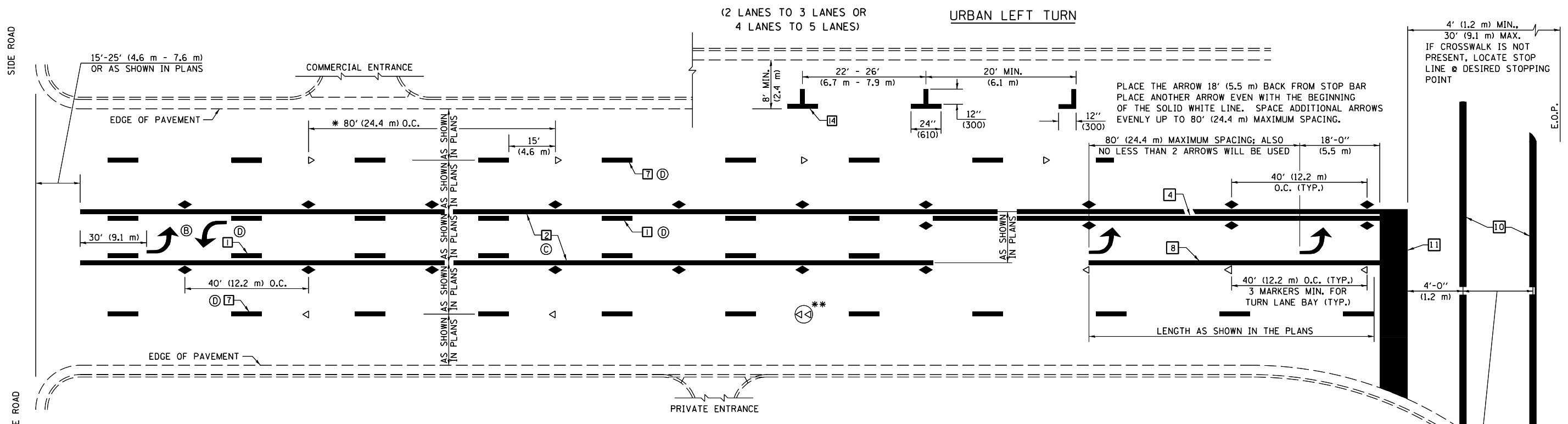
*** REDUCE SPACING IF NECESSARY TO ASSURE MARKERS AT CORNER POINTS.
 ** TURN ARROWS SHALL BE PLACED AS SHOWN ON SHEET #2.

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

DISTRICT 5 DETAIL NO. 7800AAAA

FILE NAME =	USER NAME = shererjm	DESIGNED -	REVISED - 11/06	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING AND MARKERS (RURAL & URBAN APPLICATIONS)	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\planroom\dottillinois.gov\PIWIDOT\Documents\IDOT Offices\District 5\Projects\057089\Drawings\Structures\0570892-sht-WRS.dgn		DRAWN -	REVISED - 09/2009 - KJT			74	(10-6,7)BDR	CHAMPAIGN	99	95
MODELNAME		CHECKED -	REVISED - 04/14 - JLA			CONTRACT NO. 70B92				
		DATE -	REVISED -			ILLINOIS FED. AID PROJECT				

SCALE: SHEET 1 OF 4 SHEETS STA. TO STA.

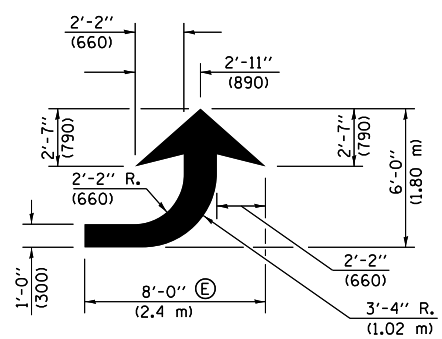


* REDUCE TO 40 FEET (12.2 METERS) ON CENTER ON CURVES WHERE ADVISORY SPEEDS ARE 10 MPH (15 km/h) LOWER THAN POSTED SPEEDS.

** DOUBLE LANE LINE MARKERS SHALL BE SPECIFIED AND SPACED AS SHOWN IN HIGHWAY STANDARD 781001 FOR MULTI-LANE DIVIDED AND UNDIVIDED HIGHWAYS.

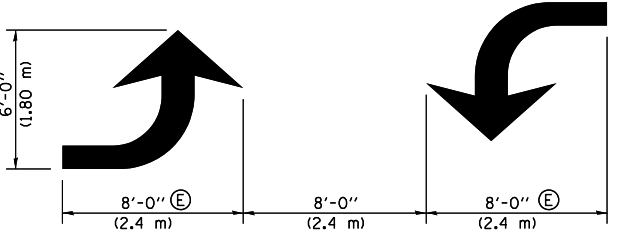
GENERAL NOTES:

- Ⓑ TURN ARROW PAIRS SHALL BE PLACED AT 250' (75 m) INTERVALS AND SHALL BE EVENLY SPACED BETWEEN BOTH ENDS OF THE BIDIRECTIONAL LEFT TURN LANE.
- Ⓒ THE SOLID YELLOW PAVEMENT MARKINGS [2] SHOULD GENERALLY START OR END NEAR THE RADIUS POINT OF EACH STREET RETURN EXCEPT WHERE ONE OR BOTH ENDS WOULD INCLUDE STOP BARS.
- Ⓓ THE SKIP-DASH PAVEMENT MARKINGS [1] OR [7] SHOULD BE CENTERED BETWEEN BOTH ENDS OF EACH CITY BLOCK AND SHALL BE PLACED SO THEY LINE UP ACROSS FROM EACH OTHER. SEE EXAMPLE ON SHEET 2 OF 3.
- Ⓔ USE LARGE ARROW SIZE FOR BOTH RURAL AND URBAN LOCATIONS. (SEE LAST PAGE OF SECTION 780x FOR SYMBOLS TABLE)



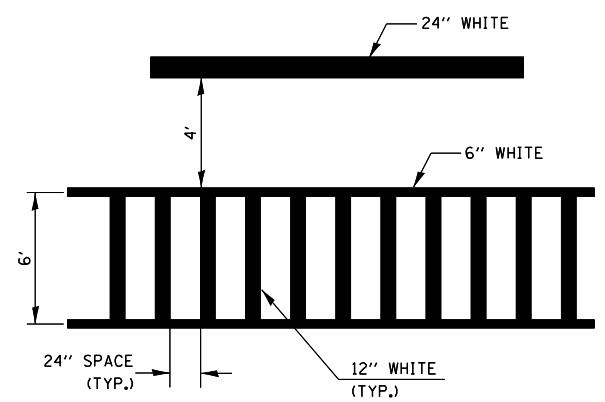
LEFT ARROW

REVERSE FOR RIGHT ARROW
AREA = 15.6 SQ. FT. (1.47 m²)
(WHITE)

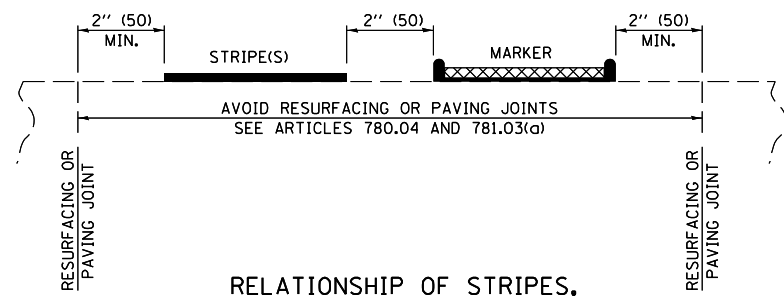


TYPICAL DOUBLE TURN ARROWS (WHITE)

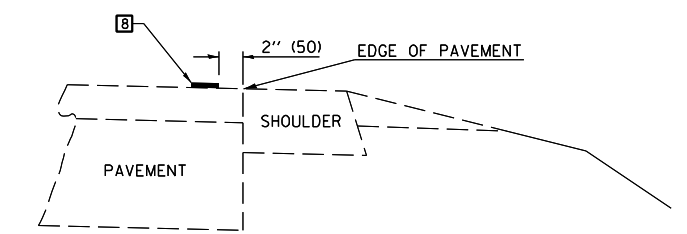
BLOOMINGTON-NORMAL CITY LIMITS ONLY



TYPICAL SPACING FOR CROSSWALKS & STOP BARS



RELATIONSHIP OF STRIPES, MARKERS AND JOINTS



RELATIONSHIP OF EDGE LINE TO EDGE OF PAVEMENT
(SAFETY SHOULDER OR PAVED SURFACE)
SEE ARTICLE 780.04

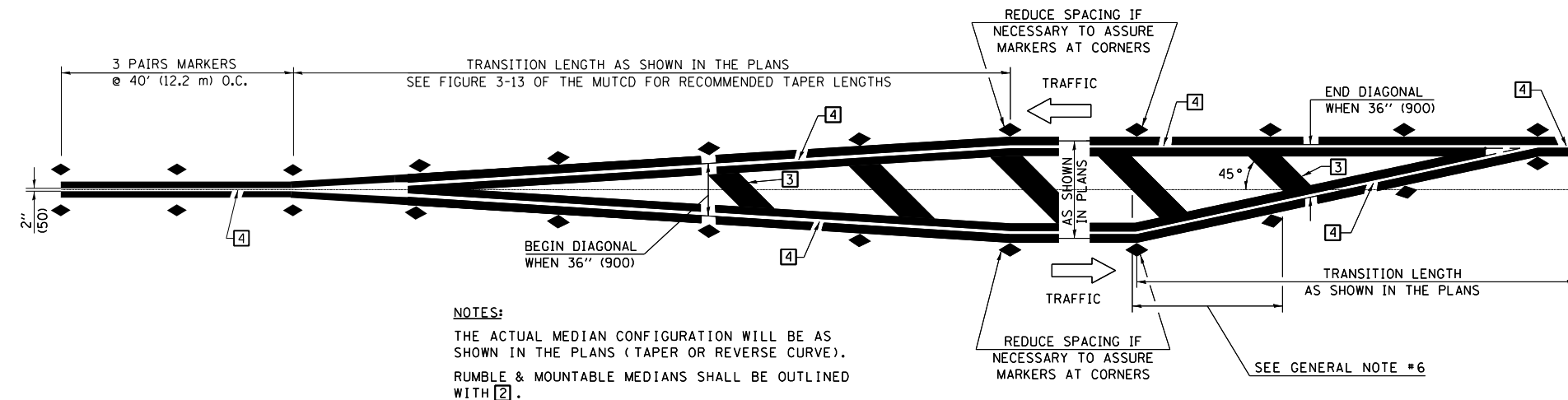
CROSSWALK WIDTH 6'-0" (1.8 m) OR AS SHOWN IN THE PLANS

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

FILE NAME =	USER NAME = shererjm	DESIGNED -	REVISED - 11/06	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING AND MARKERS (RURAL & URBAN APPLICATIONS)	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
pw:\planroom\dottillinois.gov\PIWIDOT\Documents\IDOT Offices\District 5\Projects\057089\Drawings\Structures\0570892-sht-WRS.dwg	DRAWN to Structures\0570892-sht-WRS.dwg	REVISOR -	REVISED - 09/2009 - KJT			74	(10-6.7)BDR	CHAMPAIGN	99	96	
MODELNAME	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED - 04/14 - JLA			CONTRACT NO. 70B92					
	PLOT DATE = 5/1/2019	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					

SCALE: SHEET 2 OF 4 SHEETS STA. TO STA.

DISTRICT 5 DETAIL NO. 7800AAA

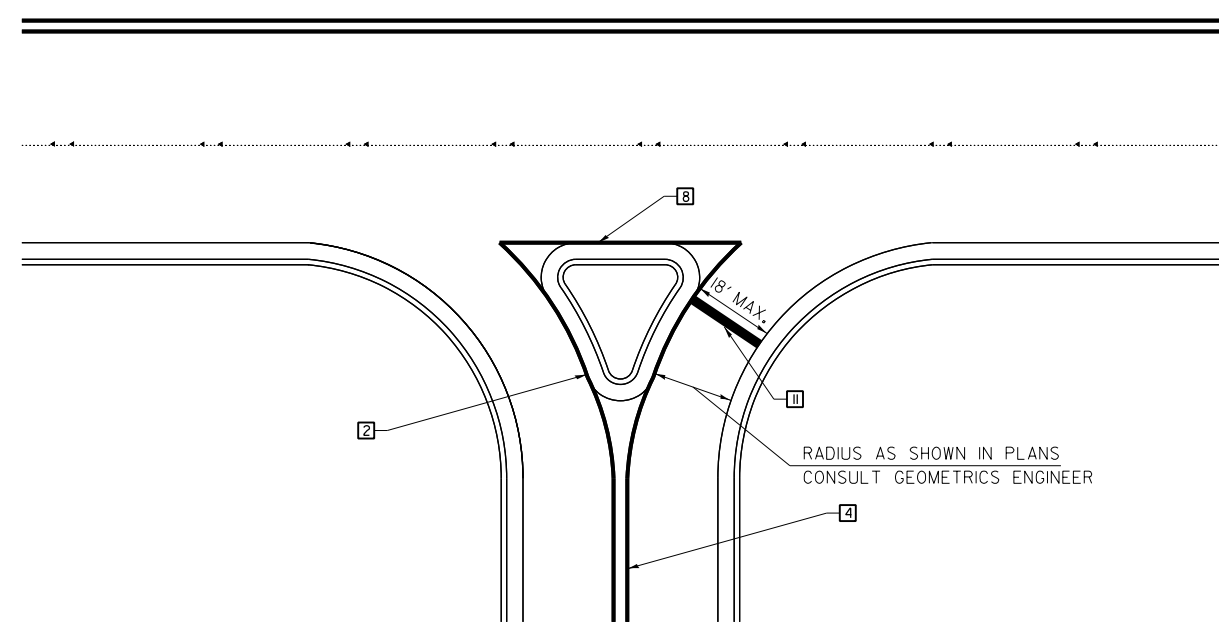


NOTES:
 THE ACTUAL MEDIAN CONFIGURATION WILL BE AS SHOWN IN THE PLANS (TAPER OR REVERSE CURVE).
 RUMBLE & MOUNTABLE MEDIANS SHALL BE OUTLINED WITH [2].

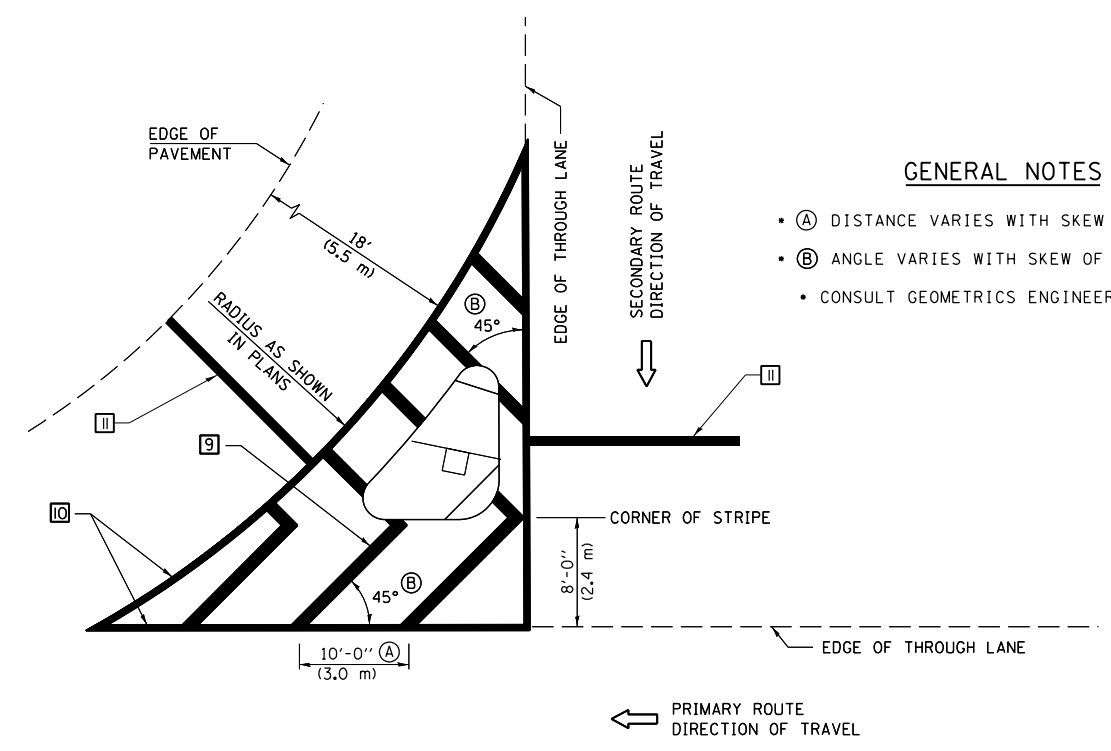
TYPICAL MEDIAN TRANSITIONS

GENERAL NOTES

1. WHEN MEDIANS ARE PRESENT, PAVEMENT MARKINGS ARE TO BE PLACED ADJACENT TO MEDIANS.
2. SOME OF THE INFORMATION INCLUDED WITH THIS DETAIL MAY NOT BE APPLICABLE TO THIS IMPROVEMENT.
3. PAVEMENT MARKINGS ARE TO BE EXTENDED THROUGH OMISSIONS WHEN APPLICABLE.
4. A STRIPING KEY IS AVAILABLE ELSEWHERE AND SHALL BE SHOWN WHERE THE QUANTITIES ARE LISTED.
5. FINAL PAVEMENT MARKINGS SHALL BE IN PLACE PRIOR TO PLACING ANY RAISED REFLECTIVE PAVEMENT MARKERS.
6. THE FOLLOWING CRITERIA SHALL BE USED FOR SELECTING THE DIAGONAL PAVEMENT MARKING SPACING,
 < 30 MPH USE 15' (< 50 km/h USE 4.5 m)
 30-45 MPH USE 20' (50-75 km/h USE 6.0 m)
 > 45 MPH USE 30' (> 75 km/h USE 9.0 m)



RIGHT IN - RIGHT OUT ACCESS



GENERAL NOTES

- (A) DISTANCE VARIES WITH SKEW OF INTERSECTION.
- (B) ANGLE VARIES WITH SKEW OF INTERSECTION.
- CONSULT GEOMETRICS ENGINEER

ISLAND

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

FILE NAME =	USER NAME = shererjm	DESIGNED -	REVISED - 11/06
pw:\planroom\dottillinois.gov\PIWIDOT\Documents\IDOT Offices\District 5\Projects\057089\BDR\to\Structures\0570892-sht-WRS.dgn		DRAWN -	REVISED - 09/2009 - KJT
#MODELNAME#	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED - 04/14 - JLA
	PLOT DATE = 5/1/2019	DATE -	REVISED -

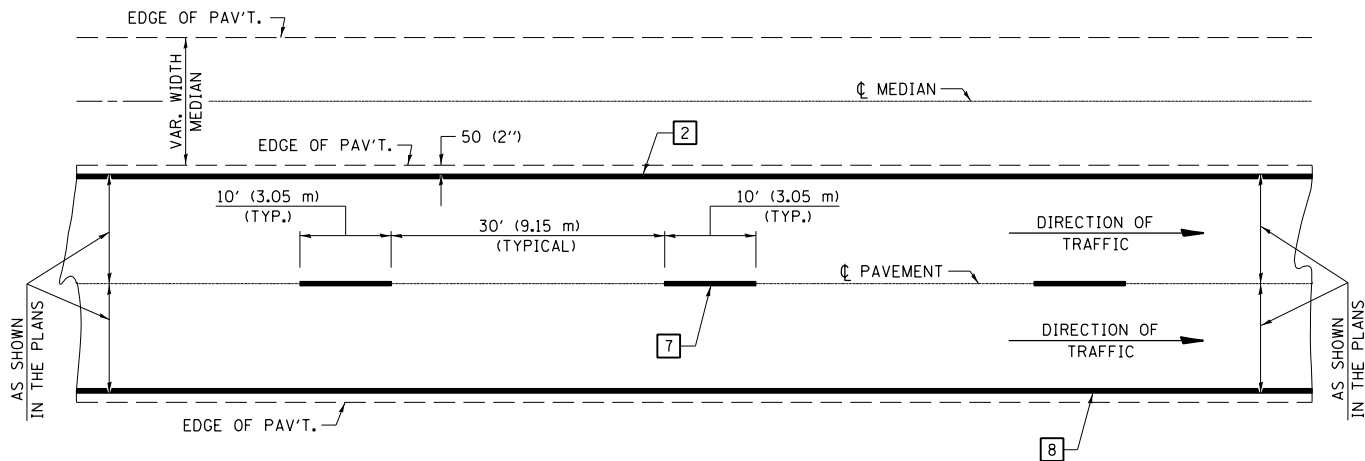
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND MARKERS
 (RURAL & URBAN APPLICATIONS)**

SCALE: SHEET 3 OF 4 SHEETS STA. TO STA.

DISTRICT 5 DETAIL NO. 7800AAA				
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-6,7)BDR	CHAMPAIGN	99	97
CONTRACT NO. 70B92				
ILLINOIS FED. AID PROJECT				

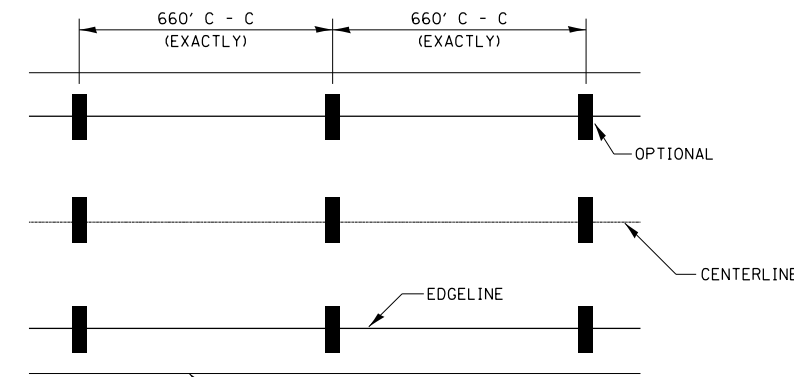
CENTERLINE INTERSTATE OR MULTI-LANE TWO WAY DIVIDED HIGHWAY



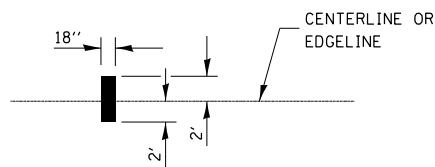
NOTE: PAVEMENT MARKINGS ARE TO BE EXTENDED THROUGH OMISSIONS WHEN APPLICABLE.

NOTE: SEE ARTICLES 780.04 & 781.03 FOR LOCATION OF STRIPES AND MARKERS RELATIVE TO EDGES OR JOINTS.

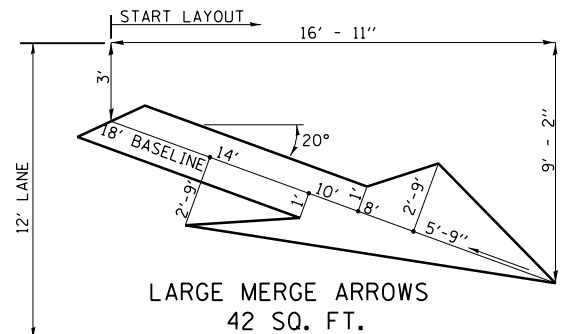
FOR RAISED REFLECTIVE PAVEMENT MARKERS, REFER TO STANDARD 781001.



IT WILL BE NECESSARY TO HAVE A REPRESENTATIVE OF THE STATE POLICE PRESENT SO THAT THE ACCURACY OF MEASUREMENT CAN BE ATTESTED TO IN COURT.

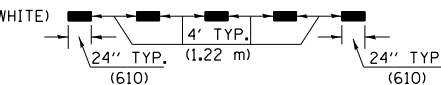
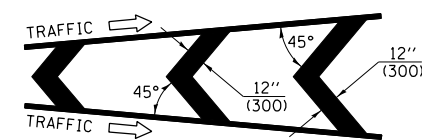
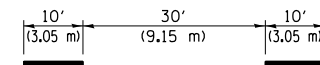
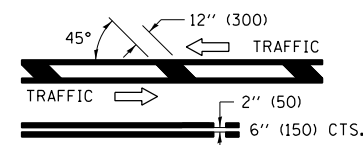
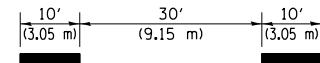


AERIAL SPEED CHECK ZONES

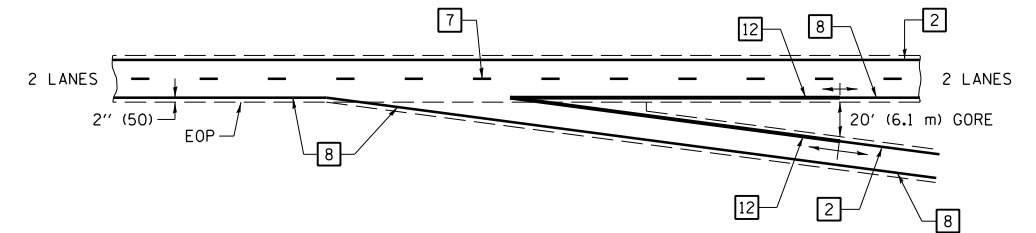


TYPICAL PAVEMENT MARKING LEGEND

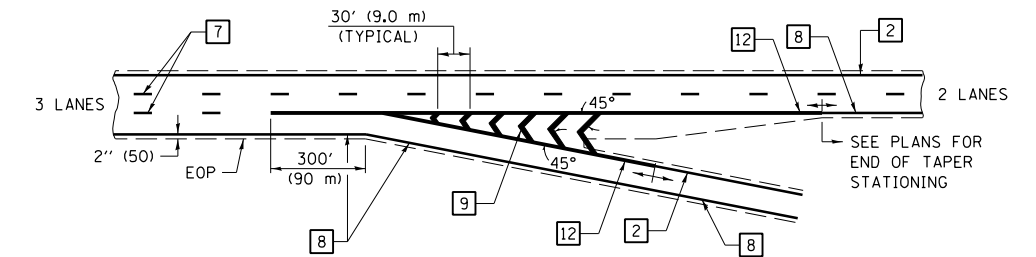
- 1 4" (100) SKIP-DASH (YELLOW)
- 2 4" (100) SOLID (YELLOW)
- 3 12" (300) DIAGONAL (YELLOW)
- 4 4" (100) DOUBLE YELLOW (NARROW)
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- 12 8" (200) SOLID (WHITE)
- 13 4" (100) LANE LINE EXTENSIONS (WHITE)



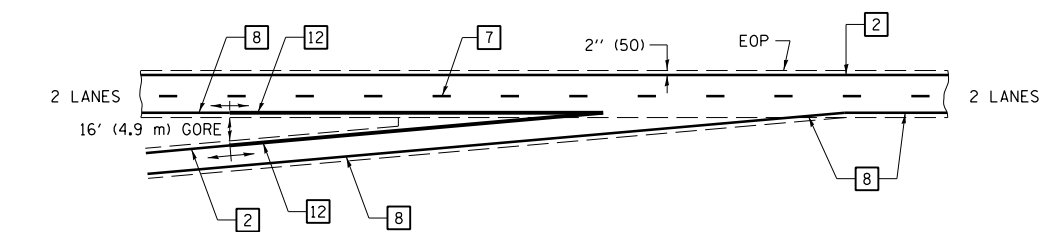
TYPICAL EXIT RAMP TERMINAL



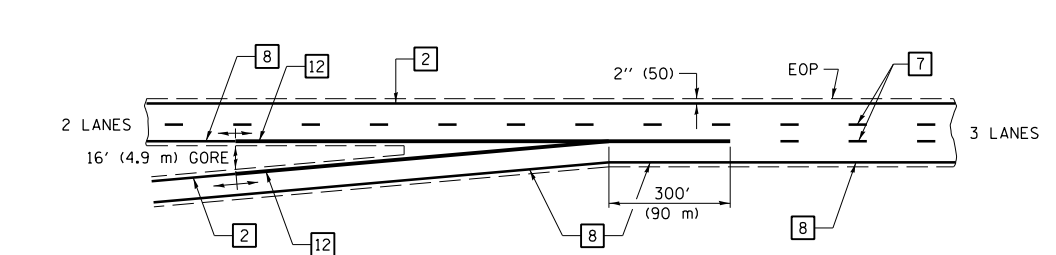
EXIT RAMP TERMINAL with EXCLUSIVE (auxiliary) LANE



TYPICAL ENTRANCE RAMP TERMINAL



ENTRANCE RAMP TERMINAL with EXCLUSIVE LANE



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

DISTRICT 5 DETAIL NO. 7800BBBB

FILE NAME =	USER NAME = shererjm	DESIGNED -	REVISED - 11/06
pw:\planroom.dot\illinois.gov\PIDOT\Documents\IDOT Offices\District 5\Projects\0570892\Drawings\Structures\0570892-sht-WRS.dwg		DRAWN -	REVISED -
MODELNAME	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 5/1/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING (INTERSTATE & MULTI-LANE APPLICATIONS)

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-6,7)BDR	CHAMPAIGN	99	99
CONTRACT NO. 70B92				
ILLINOIS FED. AID PROJECT				