

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55/74	(MBPM 2018)BJR	MCLEAN	25	1
		ILLINOIS	CONTRACT NO. 70C99	

FOR INDEX OF SHEETS, SEE SHEET NO. 2
FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 3

PROPOSED HIGHWAY PLANS

F.A.I. ROUTE 55/74
SECTION (MBPM 2018)BJR
PROJECT NHPP-TC4M(577)
BRIDGE JOINT REPAIR
MCLEAN COUNTY

C-95-021-18

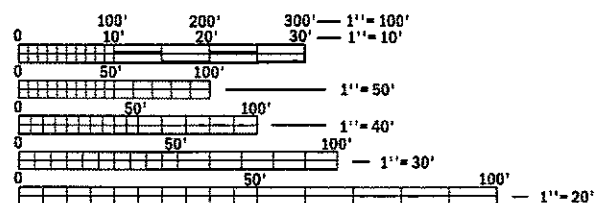
CURRENT TRAFFIC DATA

F.A.I. 55/74

2017	ADT	46,400
2027	ADT	51,500
2037	ADT	56,600
2037	DHV	3,595
	PU/PC%	70.9
	SU %	3.0
	MU %	26.1

DESIGN DESIGNATION

F.A.I. 55/74 - INTERSTATE

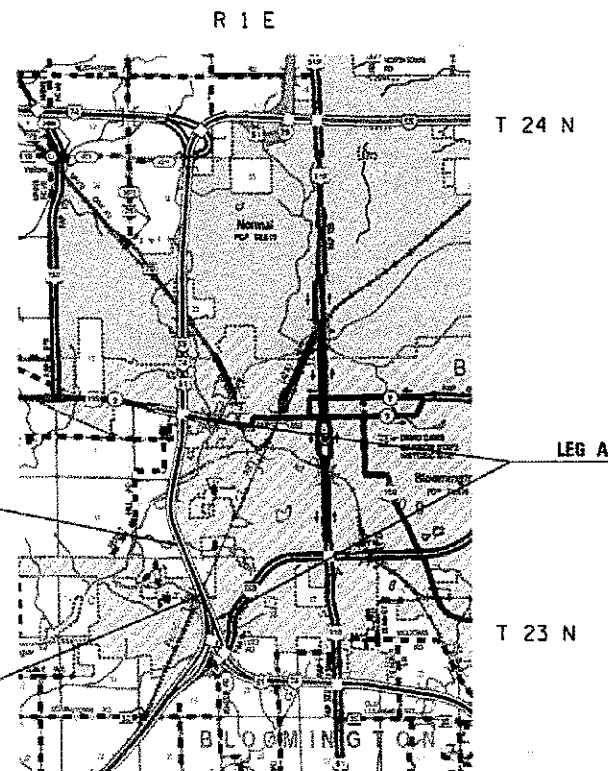


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER: TIM BRANDENBURG
SQUAD LEADER: JEFF M. SHERER

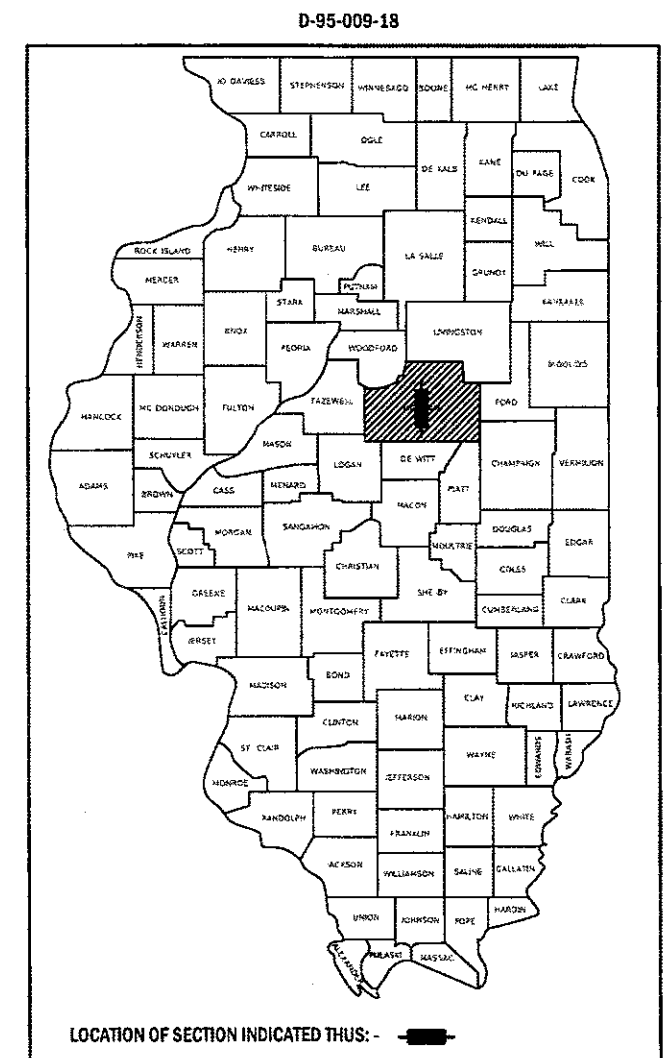
CONTRACT NO. 70C99



S.N. 057-0010 STA. 521 + 45.00 SB
S.N. 057-0011 STA. 521 + 45.00 NB
BRIDGE JOINT REPAIR
DECK SLAB REPAIR (PARTIAL DEPTH)

S.N. 057-0006 STA. 593 + 76.87 SB
S.N. 057-0007 STA. 593 + 76.87 NB
BRIDGE JOINT REPAIR
DECK SLAB REPAIR (PARTIAL DEPTH)

GROSS LENGTH = 548.00 FT. = 0.104 MILE
NET LENGTH = 548.00 FT. = 0.104 MILE



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED May 4 2018
James J. James REGIONAL ENGINEER
May 11 2018
Eric Etkin ENGINEER OF DESIGN AND ENVIRONMENT
May 10 2018
Paul P. [Signature] DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

SHEET NO.	ITEM
1	COVER SHEET
2	INDEX OF SHEETS/ HIGHWAY STANDARDS/ GENERAL NOTES
3	SUMMARY OF QUANTITIES
4-14	S.N. 057-0006 & 057-0007 DETAILS AND AS-BUILT PLANS
15-22	S.N. 057-0010 & 057-0011 DETAILS AND AS-BUILT PLANS
23-25	DETAIL OF TRAFFIC CONTROL (SPECIAL)

LIST OF STANDARDS

STANDARD NO.	DESCRIPTION
000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
7011101-05	OFF-ROAD OPERATIONS, MULTI-LANE 15' to 24" FROM EDGE OF PAVEMENT
701400-09	APPROACH TO LANE CLOSURE FREEWAY/EXPRESSWAY
701401-11	LANE CLOSURE FREEWAY/ EXPRESSWAY
701406-11	LANE CLOSURE FREEWAY/ EXPRESSWAY DAY OPERATIONS ONLY
701428-01	TRAFFIC CONTROL SETUP/REMOVAL FREEWAY/ EXPRESSWAY
701446-09	TWO-LANE CLOSURE FREEWAY/ EXPRESSWAY
780001-05	TYPICAL PAVEMENT MARKINGS
701901-07	TRAFFIC CONTROL DEVICES

GENERAL NOTES

G.N.-100

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

G.N.- 609

PRIOR TO ROUTING TRAFFIC ONTO THE SHOULDERS AS SHOWN IN THE STAGING PLANS, THE CONTRACTOR SHALL SECURE THE GRATINGS ON SHOULDER INLETS AS DIRECTED BY THE ENGINEER. THIS WORK WILL BE PAID FOR ACCORDING TO ARTICLE 109.04.

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

AREA OF DECK SLAB REPAIR HAVE BEEN ESTIMATED FROM JULY, 2017 DECK SURVEY. THE ACTUAL QUANTITY AND LOCATIONS SHALL BE DETERMINED BY ENGINEER. ADDITIONAL PATCHING QUANTITIES HAVE BEEN PROVIDED FOR THE ENGINEER TO USE AFTER FIELD REVIEW. THE ENGINEER SHALL SHOW THE ACTUAL LOCATIONS OF DECK REPAIRS ON DECK PATCHING DETAIL SHEETS.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS/ HIGHWAY STANDARDS
GENERAL NOTES

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55/74	(MBPM 2018)BJR	MCLEAN	25	2
CONTRACT NO. 70C99				
ILLINOIS FED. AID PROJECT				

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PLOT DATE = 5/2/2018	DATE - 08/29/2018	REVISED -

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 DATE: 5/2/2018

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	MCLEAN COUNTY FAI-55/FAI-74 URBAN INTERSTATE BRIDGE JOINT REPAIRS S.N. 057-0006 90% FED, 10% STATE	MCLEAN COUNTY FAI-55/FAI-74 URBAN INTERSTATE BRIDGE JOINT REPAIRS S.N. 057-0007 90% FED, 10% STATE	MCLEAN COUNTY FAI-55/FAI-74 URBAN INTERSTATE BRIDGE JOINT REPAIRS S.N. 057-0010 90% FED, 10% STATE	MCLEAN COUNTY FAI-55/FAI-74 URBAN INTERSTATE BRIDGE JOINT REPAIRS S.N. 057-0011 90% FED, 10% STATE
				0047	0047	0047	0047
50102400	CONCRETE REMOVAL	CU YD	1.7	1.7	0.0	0.0	0.0
50300255	CONCRETE SUPERSTRUCTURE	CU YD	1.7	1.7	0.0	0.0	0.0
50300300	PROTECTIVE COAT	SQ YD	18.0	18.0	0.0	0.0	0.0
67100100	MOBILIZATION	LSUM	1.0	0.25	0.25	0.25	0.25
70100700	TRAFFIC CONTROL AND PROTECTION, STANDARD 701406	LSUM	1.0	0.25	0.25	0.25	0.25
70100800	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	LSUM	1.0	0.25	0.25	0.25	0.25
70100815	TRAFFIC CONTROL AND PROTECTION, STANDARD 701446	LSUM	1.0	0.25	0.25	0.25	0.25
X7010218	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	EACH	4.0	1.0	1.0	1.0	1.0
X7010410	SPEED DISPLAY TRAILER	CAL MO	2.0	0.5	0.5	0.5	0.5
X7015005	CHANGEABLE MESSAGE SIGN	CAL DA	30.0	7.5	7.5	7.5	7.5
Z0001800	APPROACH SLAB REPAIR (PARTIAL DEPTH)	SQ YD	50.0	12.5	12.5	12.5	12.5
Z0016200	DECK SLAB REPAIR (PARTIAL)	SQ YD	50.0	12.5	12.5	12.5	12.5
Z0021908	SILICONE JOINT SEALER, 2"	FOOT	567.0	199.0	200.0	84.0	84.0
Z0021912	SILICONE JOINT SEALER, 2.5"	FOOT	168.0	0.0	0.0	84.0	84.0
Z0041895	POLYMER CONCRETE	CU FT	99.0	21.4	21.6	28.0	28.0

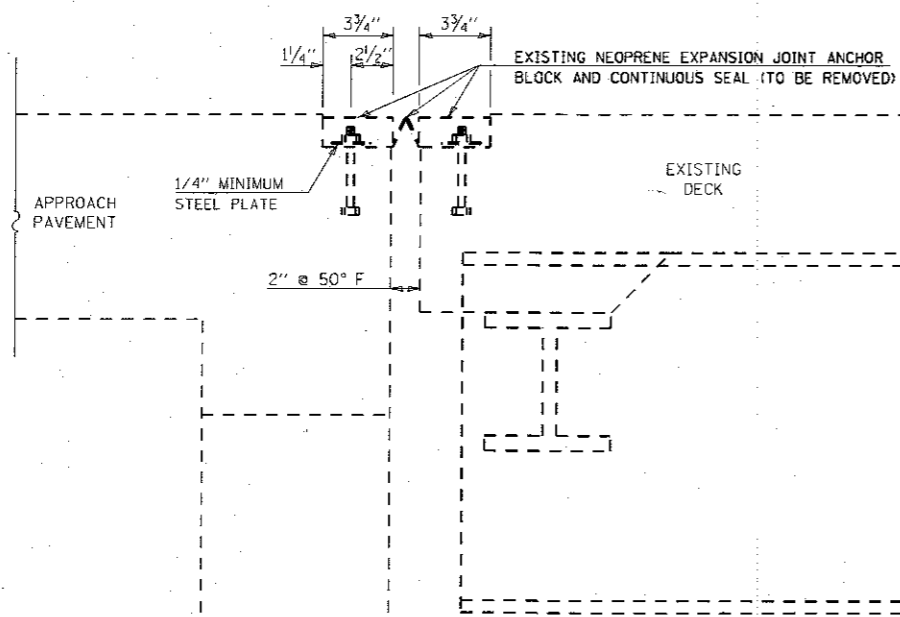
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PLOT DATE = 5/2/2018		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

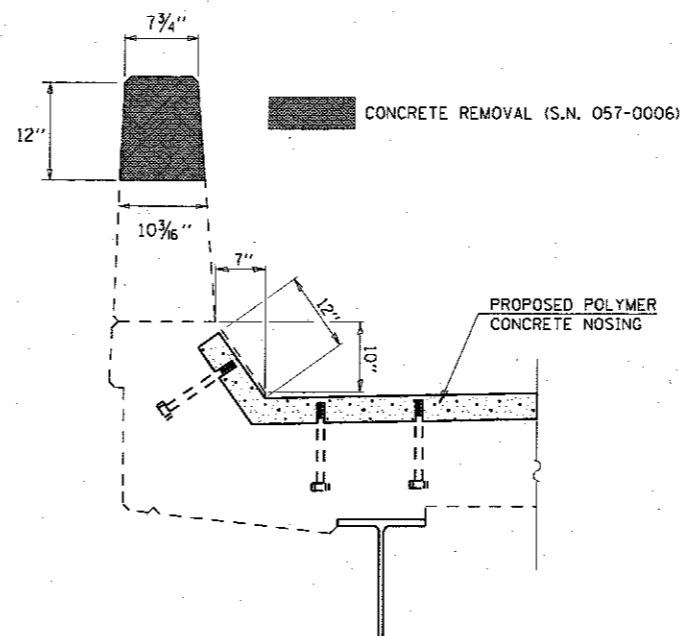
SUMMARY OF QUANTITIES

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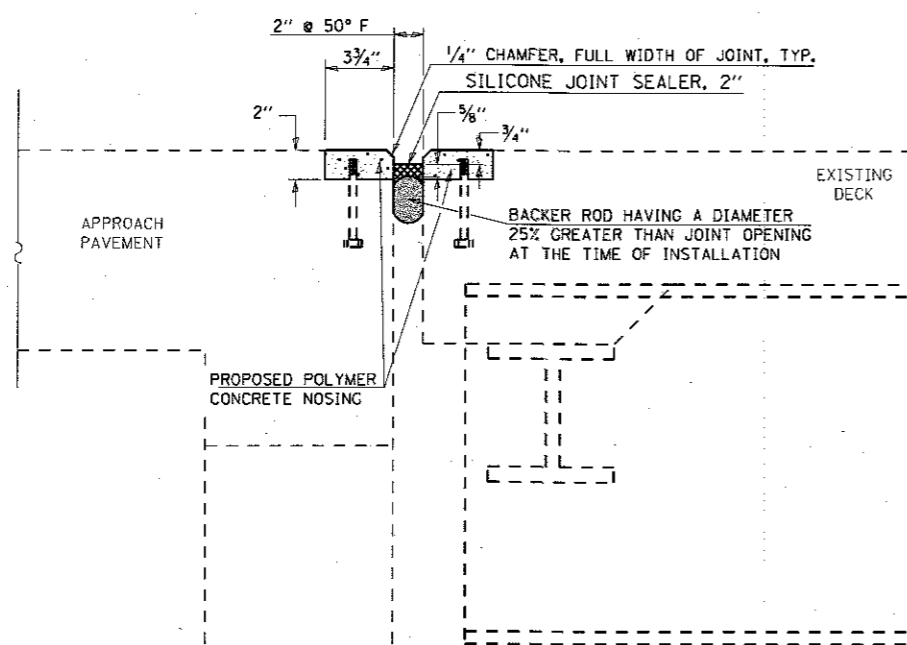
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CONTRACT NO. 70C99			ILLINOIS FED. AID PROJECT	



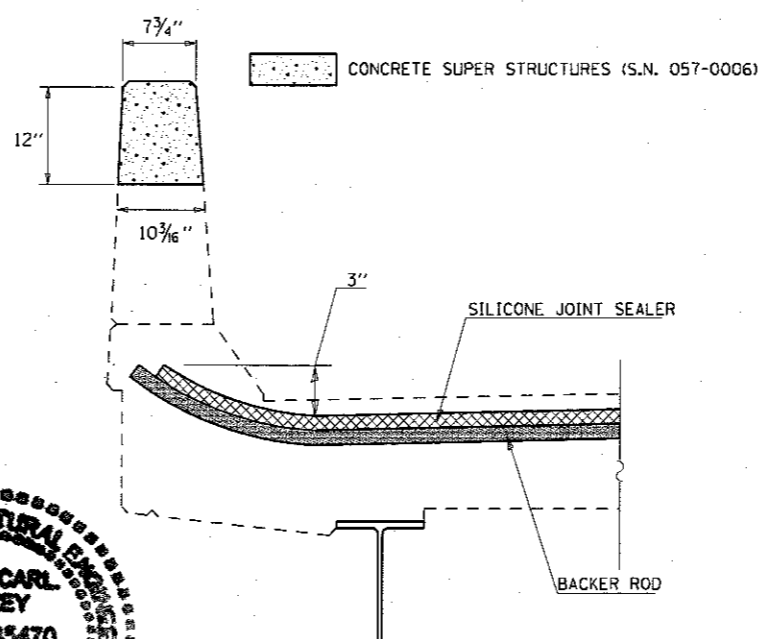
SECTION A-A AT JOINT (EXISTING)



**SECTION B-B AT PARAPET
POLYMER CONCRETE NOSING**



SECTION A-A AT JOINT (PROPOSED)



**SECTION AT PARAPET
SILICONE JOINT SEALER**

General Notes

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

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

Removal of the existing Neoprene Expansion Joint shall be included with the cost of SILICONE JOINT SEALER and POLYMER CONCRETE.

Proposed Improvements

1. Remove existing Neoprene Expansion Joint
2. Remove portion of parapet wall
3. Place Polymer Concrete Nosing
4. Place Concrete Superstructure at Parapet wall
5. Perform Deck Slab Repair (Partial Depth)
6. Place Backer Rod
7. Place Silicone Joint Sealer

BILL OF MATERIALS

Item	Unit	Total
Concrete Removal	Cu. Yd.	1.7
Concrete Superstructure	Cu. Yd.	1.7
Protective Coat	Sq. Yd.	18.0
Approach Slab Rep (Partial Depth)	Sq. Yd.	1.8
Deck Slab Repair (Partial Depth)	Sq. Yd.	1.4
Silicone Joint Sealer, 2"	Foot	399.0
Polymer Concrete	Cu. Ft.	43.0



*David Carl Puzey 5/17/18
Expires 11/30/18*

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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		JOINT REPAIR DETAILS S.N. 057-0006 & S.N. 057-0007	
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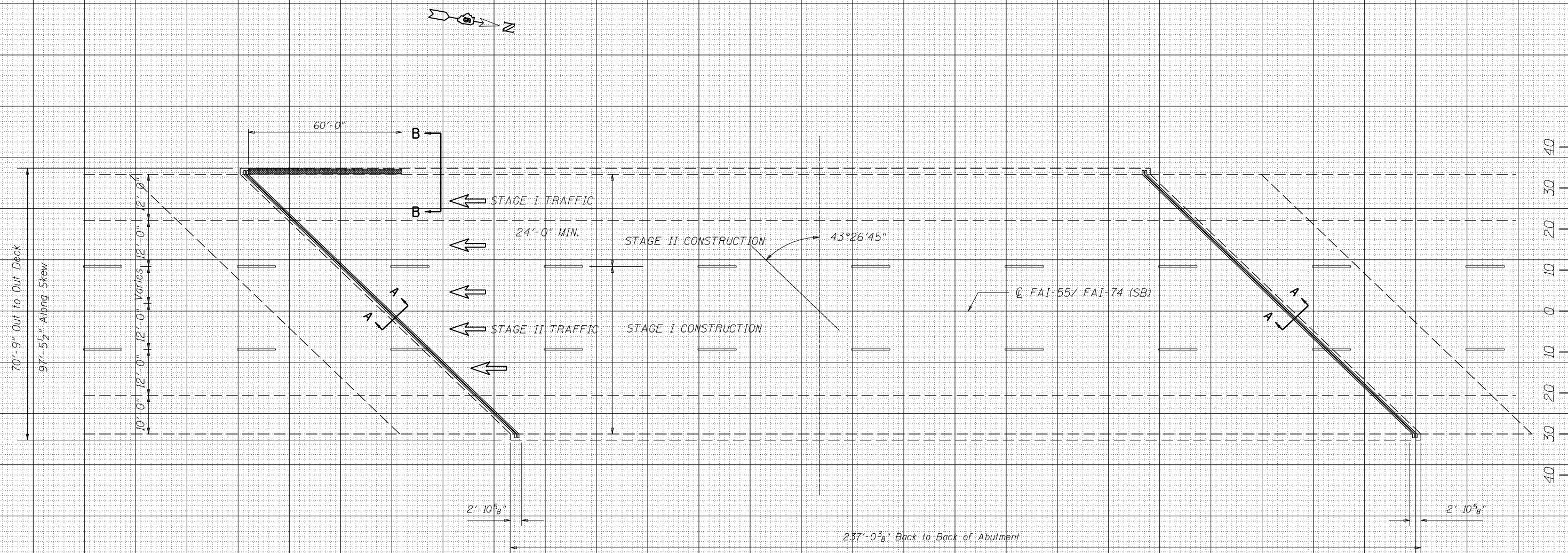
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55/74	(MBPM 2018)BJR	MCLEAN	25	4
CONTRACT NO. 70C99			ILLINOIS FED. AID PROJECT	

S.N. 057-0006

DATE	BY	DATE	BY
FINAL SURVEY	SURVEYED	PLOTTED	TEMPLATE
NOTE BOOK	AREAS CHECKED		

DATE	BY	DATE	BY
ORIGINAL SURVEY	SURVEYED	PLOTTED	TEMPLATE
NOTE BOOK	AREAS CHECKED		

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AREA OF DECK SLAB REPAIR HAVE BEEN ESTIMATED FROM JULY, 2017 DECK SURVEY. THE ACTUAL QUANTITY AND LOCATIONS SHALL BE DETERMINED BY ENGINEER. THE ENGINEER SHALL SHOW THE ACTUAL LOCATIONS OF THE DECK REPAIRS ON DECK PATCHING DETAIL SHEETS.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAIL OF PARTIAL DEPTH PATCHING
S.N. 057-0006 (SB)

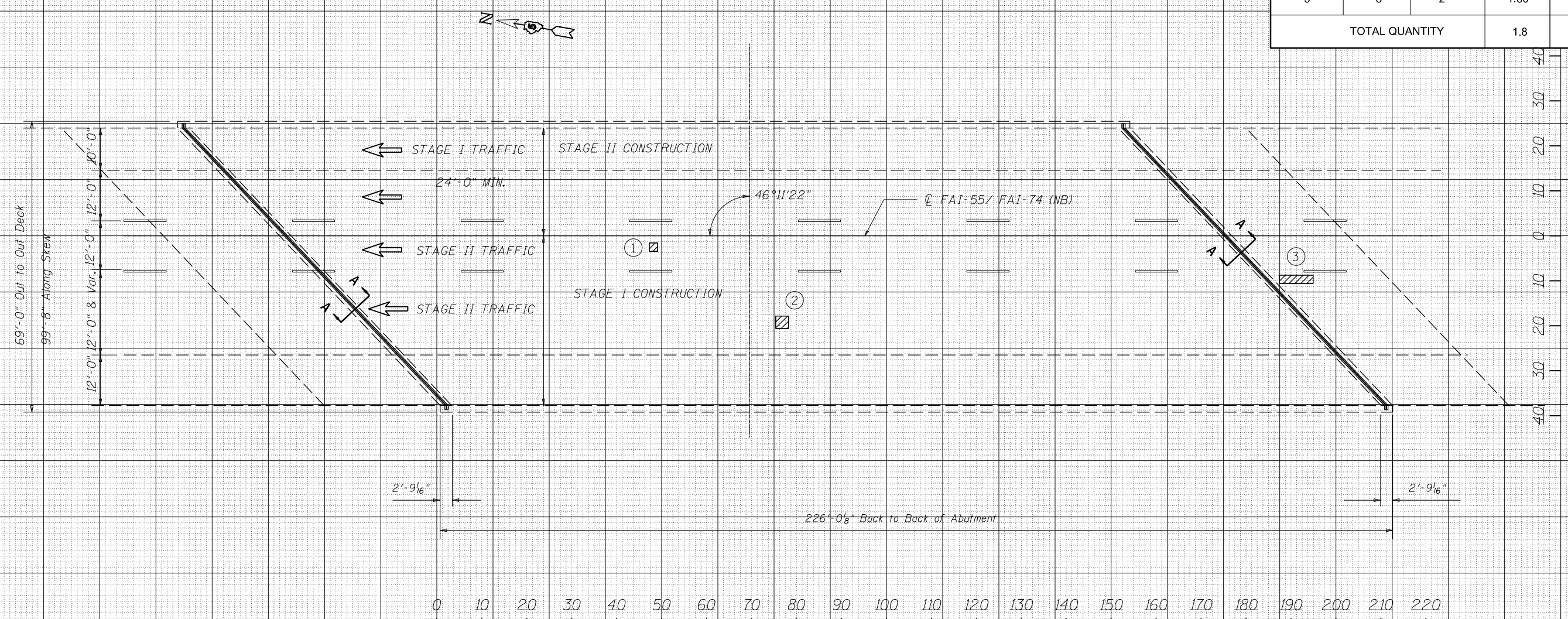
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55/74	(MBPM 2018)BJR	MCLEAN	25	5
CONTRACT NO. 70C99				

ILLINOIS FED. AID PROJECT

S.N. 057-0007

PATCH NO.	SIZE		APPR SLAB REPAIR (PARTIAL DEPTH)	DECK SLAB REPAIR (PARTIAL DEPTH)
	LENGTH (FT)	WIDTH (FT)	SQ YD	SQ YD
1	2	2	0.00	0.44
2	3	3	0.00	1.00
3	8	2	1.80	0.00
TOTAL QUANTITY			1.8	1.4



AREA OF DECK SLAB REPAIR HAVE BEEN ESTIMATED FROM JULY, 2017 DECK SURVEY. THE ACTUAL QUANTITY AND LOCATIONS SHALL BE DETERMINED BY ENGINEER. THE ENGINEER SHALL SHOW THE ACTUAL LOCATIONS OF THE DECK REPAIRS ON DECK PATCHING DETAIL SHEETS.

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

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

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	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAIL OF PARTIAL DEPTH PATCHING
S.N. 057-0007 (NB)

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

F.A.I. RTE. 55/74	SECTION (MBPM 2018)BJR	COUNTY MCLEAN	TOTAL SHEETS 25	SHEET NO. 6
CONTRACT NO. 70C99			ILLINOIS FED. AID PROJECT	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

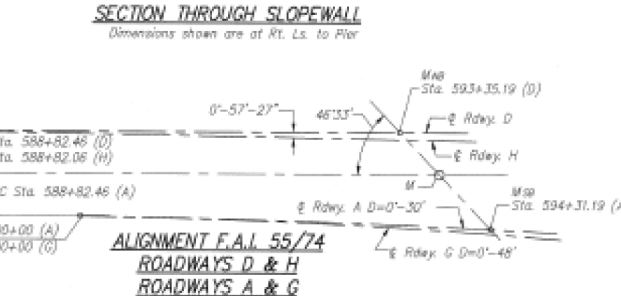
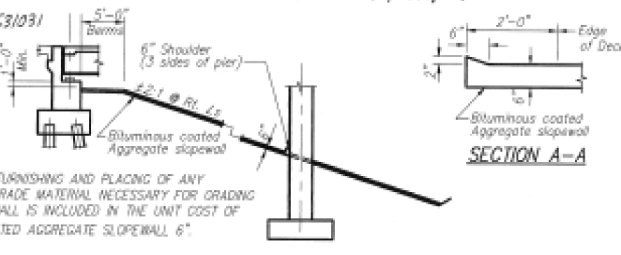
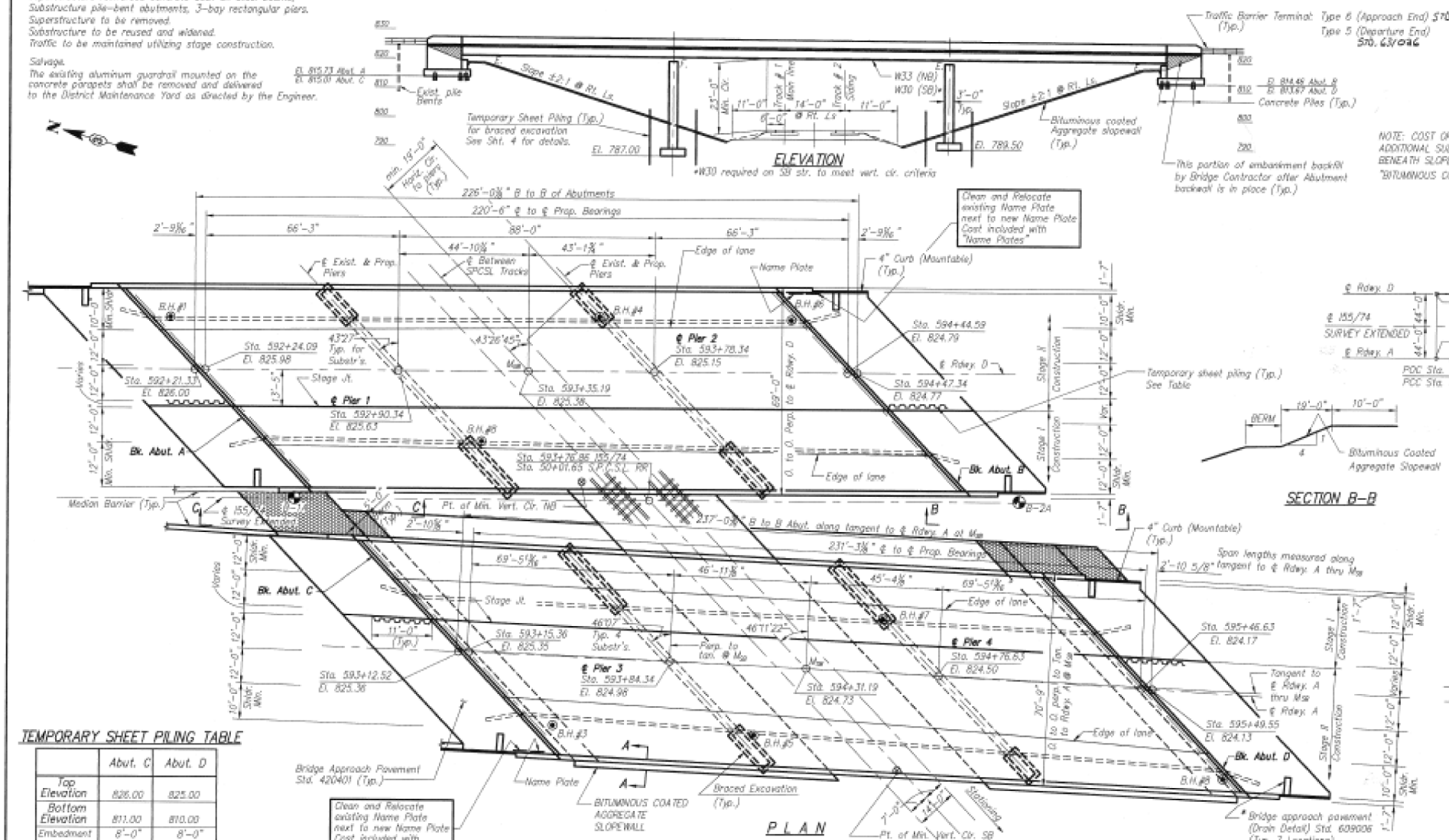
DATE	NO.	BY	REV.	BY
5/5/74		McLEAN	339	274

SHEET NO. 1
OF 29 SHEETS

B.M. - Sta. 593+69.45, \pm 155/74 survey line extended 41.41 ft. square cut on top of wall between pier columns, elev. 803.58

Existing Structures: Sta. 593+76.52, F.A.I. Route 55, Sec. 57-7VBR
Built in 1963, Structure numbers 057-0006 (S.B.) & 057-0007 (N.B.)
Length back to back of abutments 223'-0" 1/8" (N.B.), 237'-0" 1/2" (S.B.)
Width out to out of deck varies 41'-8" 9/16" to 45'-6" 5/8" (N.B.), 39'-0" to 45'-4" 5/16" (S.B.)
Superstructure reinforced concrete deck on steel beams.
Substructure pile-bent abutments, 3-bay rectangular piers.
Superstructure to be removed.
Substructure to be reused and widened.
Traffic to be maintained utilizing stage construction.

Salvage.
The existing aluminum guardrail mounted on the concrete parapets shall be removed and delivered to the District Maintenance Yard as directed by the Engineer.



ROADWAY A

P.I. Sta. = 600+86.87 (A)	$\Delta = 12^{\circ} 00' 00''$	D = 0' 30' 00"	R = 11,459.16	L = 2400'	T = 1204.41	E = 63.12'	P.C. Sta. = 588+82.46	P.T. Sta. = 612+82.46	S.E. = 0.02'/ft.
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ROADWAY G

P.I. Sta. = 593+00.18 (G)	$\Delta = 4^{\circ} 48' 00''$	D = 0' 48' 00"	R = 7,161.97'	L = 600'	T = 300.18'	E = 18.85'	P.C. Sta. = 590+00	P.T. Sta. = 596+00	S.E. = 0.02'/ft.
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TEMPORARY SHEET PILING TABLE

	Abut. C	Abut. D
Top Elevation	826.00	825.00
Bottom Elevation	811.00	810.00
Embedment	8'-0"	8'-0"
Minimum Section Modulus	8.1 in ³ /ft	

DESIGNED: MPP
CHECKED: WCM
DRAWN: RSB/SOI
CHECKED: WCM

DESIGN SPECIFICATIONS
1992 AASHTO and 1993 and 1994 Intern
LOADING HS 20-44 & ALTERNATE
Allow 25#/sq. ft. for future wearing surface.

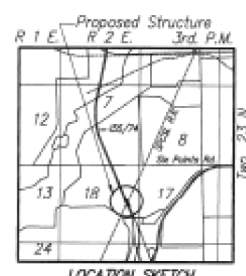
DESIGN STRESSES
FIELD UNITS
 $f_c = 3,500$ psi
 $f_y = 60,000$ psi (Rein.)
 $f_y = 50,000$ psi (Struct.) (M270 Gr.50)

SEISMIC DATA
Seismic Performance Category (S.P.C.) = A
Acceleration Coefficient (A) = 0.045g
Site Coefficient (S) = 1.0

TOP OF TRACK ELEVATION

Station	Track # 1	Track # 2
49+00	798.26	797.74
50+00	797.89	797.50
51+00	797.56	797.07
52+00	797.23	796.88

STATION 593+76.86
REBUILT BY
STATE OF ILLINOIS
F.A.I. RT. 55 SEC.57-7VBR
F.A. PROJ.
LOADING HS20+ALT
STR. NO. 057-0006
SOUTHBOUND NAME PLATE
See Std. 515001



APPROVED FOR STRUCTURAL ADEQUACY ONLY
ENGINEER OF BRIDGES AND STRUCTURES
DONALD C. YETTER
07-31-97
EXPIRES 11-30-98

This drawing includes information for Northbound as well as Southbound. Information related to the Northbound Structure is for information only (By Others).

GENERAL PLAN AND ELEVATION
SOUTHBOUND
155/74 OVER THE S.P.C.S.L. CORP. RAILROAD
F.A.I. RTE. 55 (155/74) SECTION 7VBR
McLEAN COUNTY
Sta. 593+76.86
STRUCTURE NUMBER: 057-0006

MODEL: MOD057.MMTS
FILE: MMTS_PlanElev.dwg
PROJECT: 057-0006
DRAWN: RSB/SOI
CHECKED: WCM
DATE: 5/2/2018

HAZLET & ERDAL
DAMES & MOORE
FILE NUMBER 812\SPCS1\59

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS 057-0006
(INFORMATION ONLY)

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	DRAWN -	REVISED -
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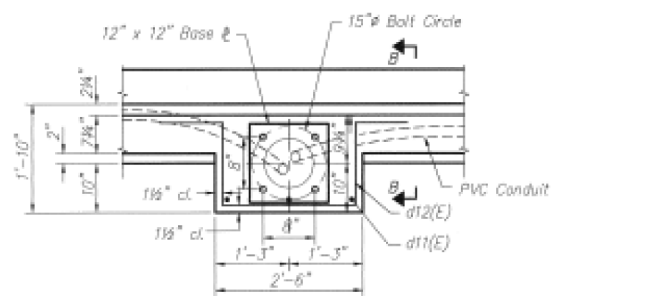
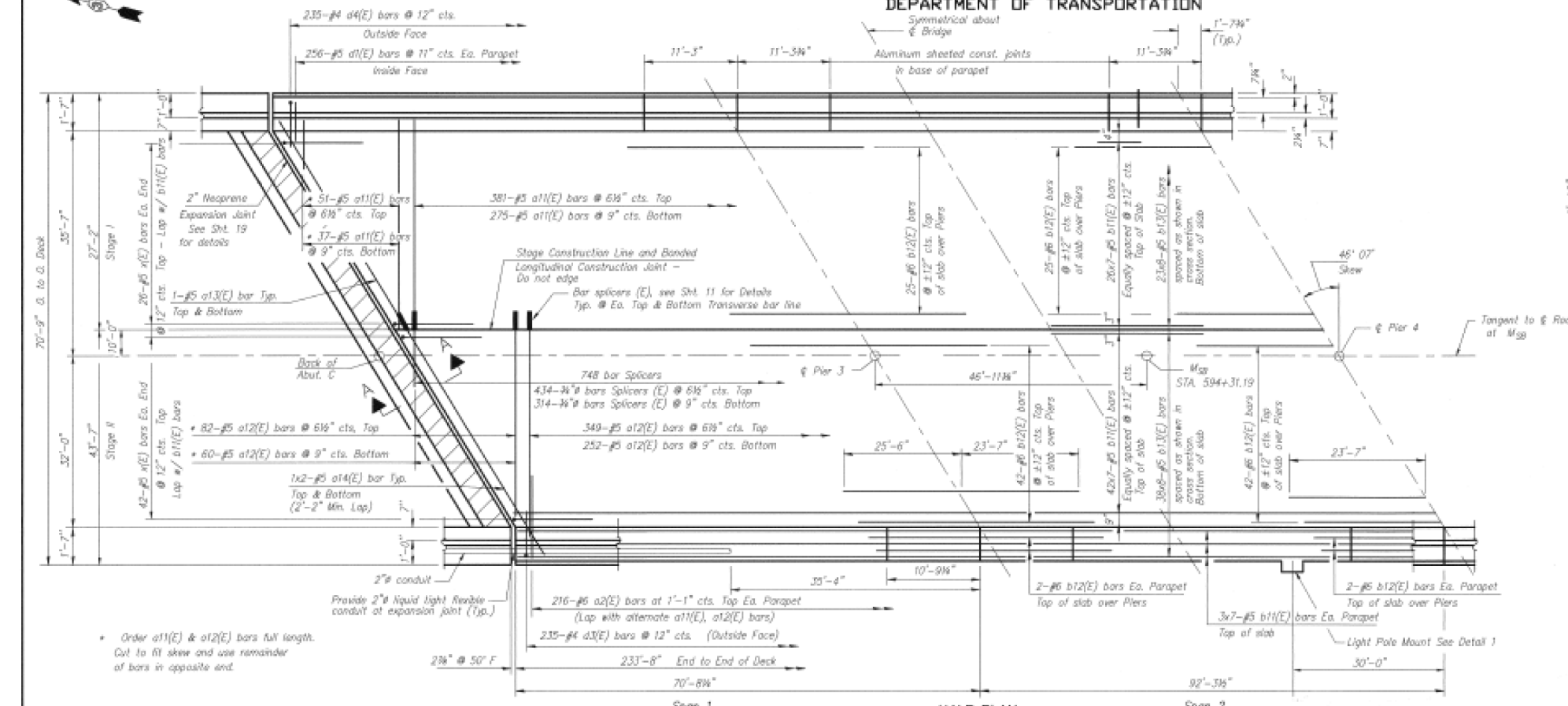
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55/74	(MBPM 2018)BJR	McLEAN	25	7
CONTRACT NO. 70C99			ILLINOIS FED. AID PROJECT	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

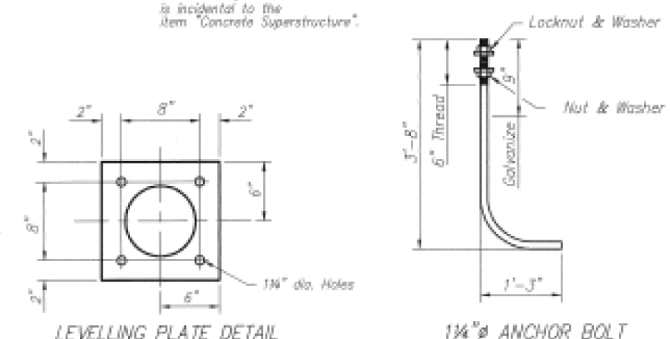
F.A.I. RTE.	SECTION	COUNTY	NO.	NO.	SHEET NO.
55/74		McLEAN	339	282	29
FROM SHEET 1					

*57-0.7R, 10R, 11, 16, 16R



PLAN DETAIL 1

Note:
Cost of anchor bolts, conduit, elbows and junction boxes is incidental to the item "Concrete Superstructure".

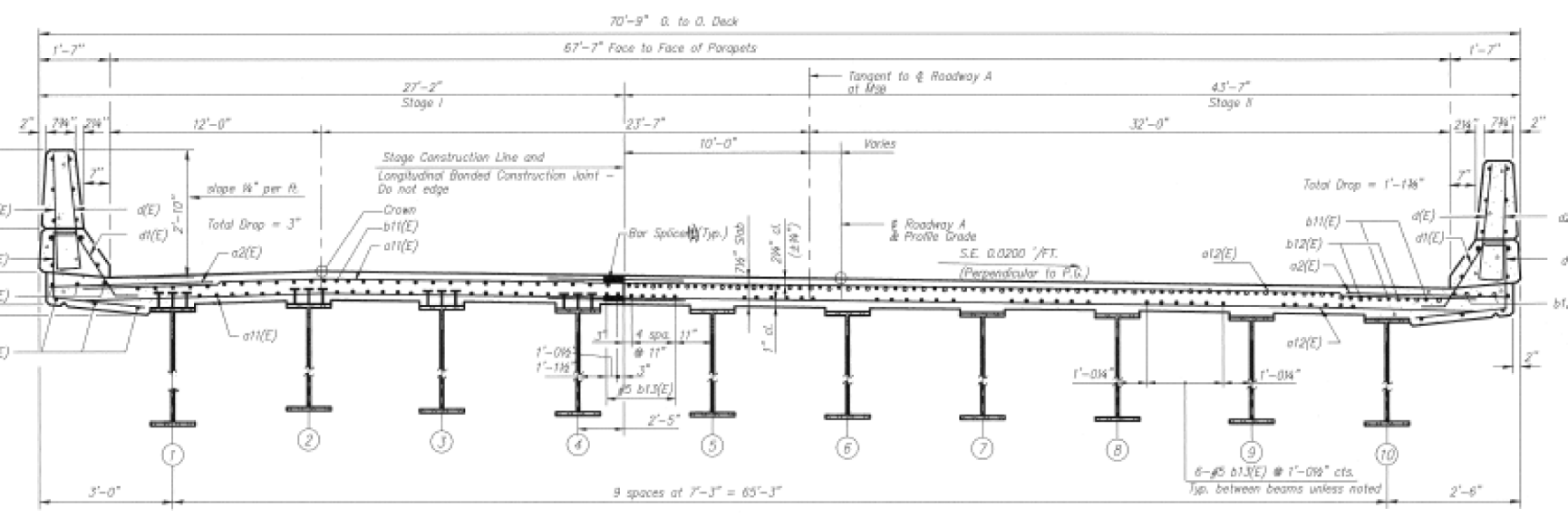


LIGHT POLE MOUNT DETAILS

- Notes:
- See Sheet 10 for Superstructure Details, Parapet Reinforcement, and Bill of Material.
 - Reinforcement bars designated (E) shall be epoxy coated.
 - Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 5 lengths per line.
 - See Sheet 10 for Section A-A.
 - Minimum lap length for #5 bars = 1'-8", except as noted.
 - Hatched area to be poured after Superstructure forms have been removed. Quantity of concrete included with "Concrete Superstructure".
- Work this Sheet with Sheet 10.

DESIGNED	DAS
CHECKED	MPP
DRAWN	RSB/MBS
CHECKED	MPP

**HAZELET & ERDAL
DAMES & MOORE**
FILE NUMBER: 612\SPC3\38



CROSS SECTION
(Looking South)

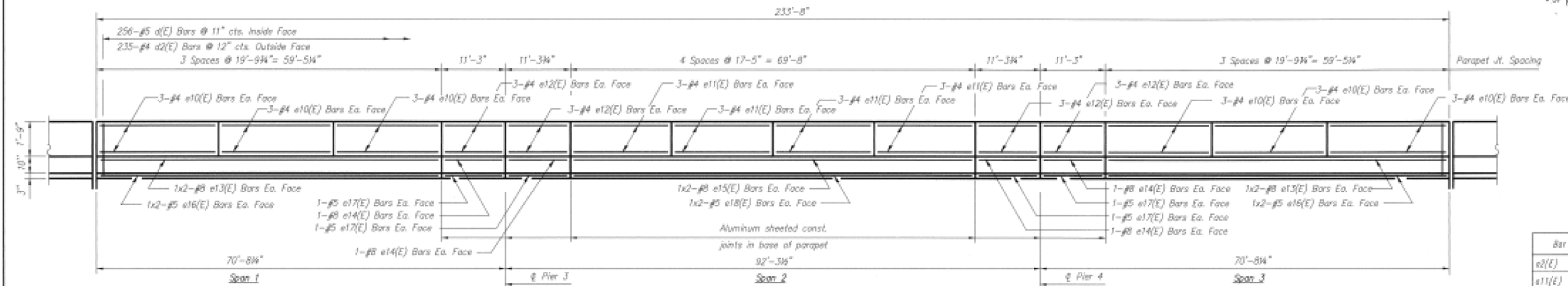
**DECK REINFORCEMENT
SOUTHBOUND**
155/74 OVER THE S.P.C.S.L. CORP. RAILROAD
F.A.I. RTE. 55 (155/74) SECTION 7VBR
McLEAN COUNTY
STA. 593+76.86
STRUCTURE NUMBER: 057-0006

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USER NAME	= sherejin	DESIGNED	-	REVISED	-	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	AS-BUILT PLANS 057-0006 (INFORMATION ONLY)				F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
DRAWN	-	CHECKED	-	REVISED	-		SCALE: NONE	SHEET 2	OF 8 SHEETS	STA.	TO STA.	55/74	(MBPM 2018)BJR	MCLEAN	25	7
PLOT SCALE	= 40.0000 ' / in.	DATE	-	REVISION	-		CONTRACT NO. 70C99									
PLOT DATE	= 5/2/2018	ILLINOIS FED. AID PROJECT														

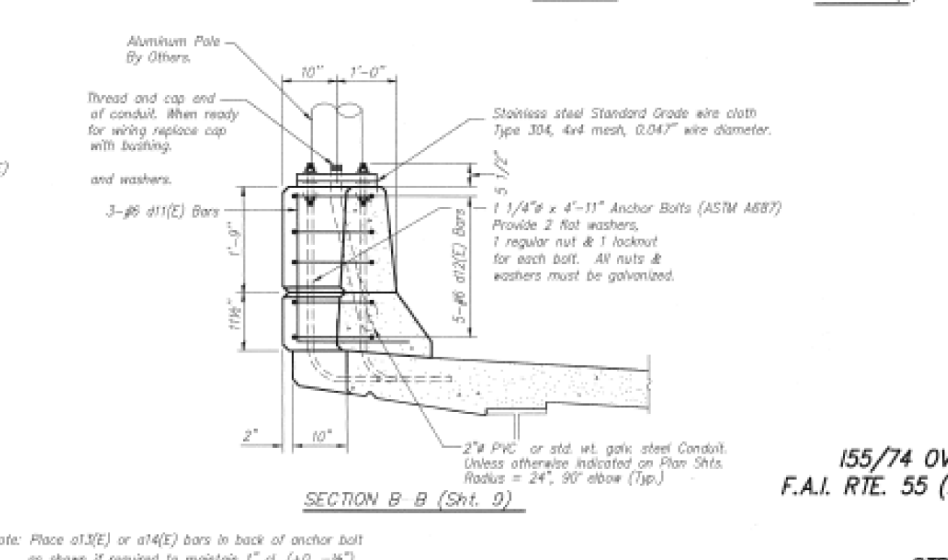
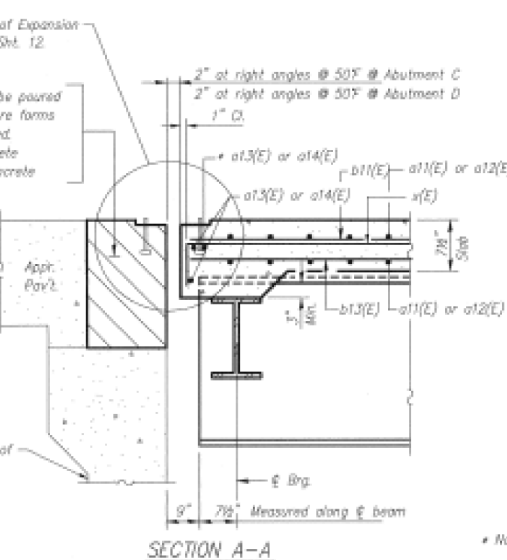
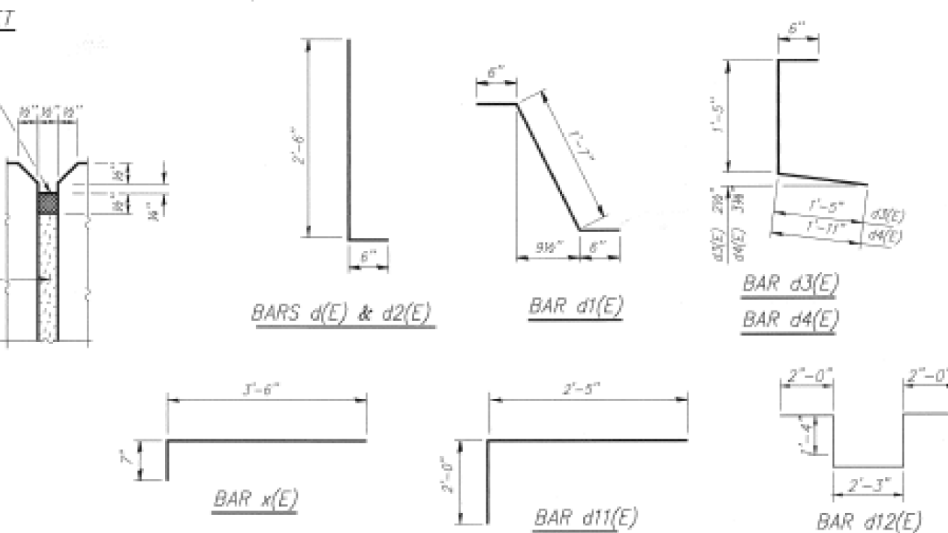
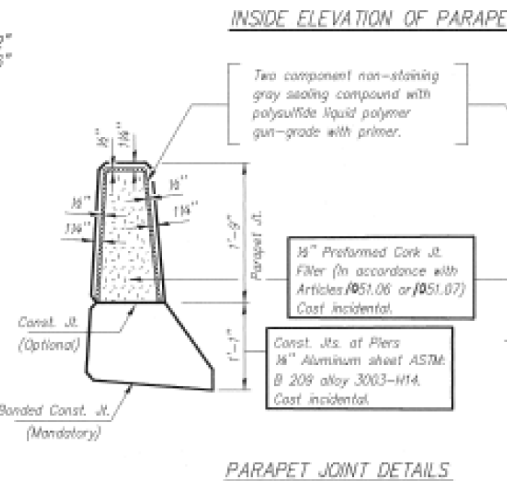
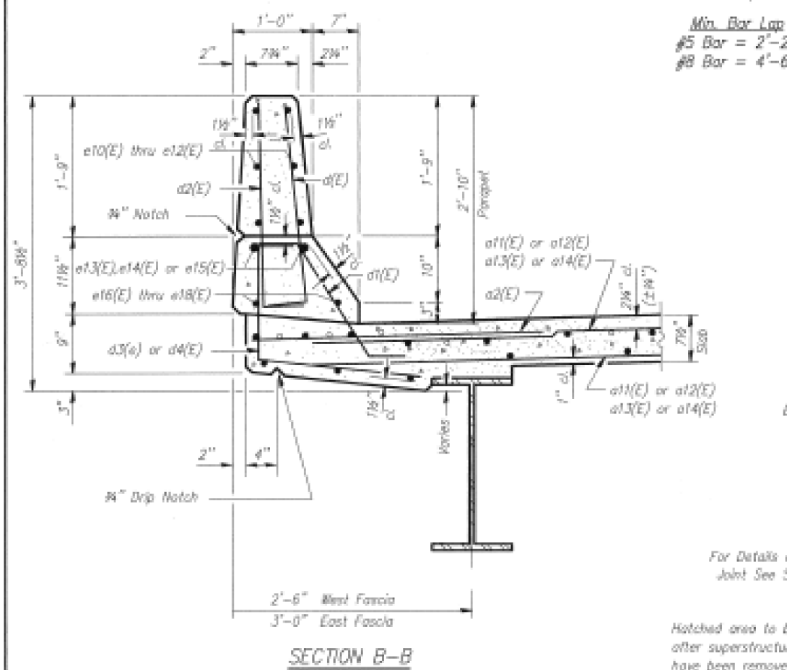
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FILE NO.	REVISION	DATE	BY	CHKD.	SHEET NO.
55/74	+	McLEAN	339	283	28 OF 28 SHEETS



SUPERSTRUCTURE
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
e2(E)	432	#6	4'-0"	—
e11(E)	744	#5	25'-11"	—
e12(E)	743	#5	42'-6"	—
e13(E)	4	#5	37'-5"	—
e14(E)	8	#5	38'-7"	—
e15(E)	8	#5	2'-0"	—
e11(E)	518	#5	34'-10"	—
e12(E)	142	#6	49'-1"	—
e13(E)	488	#5	36'-6"	—
e1(E)	512	#5	3'-0"	—
e1(E)	512	#5	2'-7"	—
e2(E)	470	#4	3'-0"	—
e3(E)	235	#4	3'-4"	—
e4(E)	235	#4	3'-10"	—
e11(E)	3	#6	4'-5"	—
e12(E)	5	#6	8'-11"	—
e10(E)	72	#4	18'-6"	—
e11(E)	48	#4	17'-1"	—
e12(E)	48	#4	11'-0"	—
e13(E)	16	#6	31'-9"	—
e14(E)	16	#6	11'-0"	—
e15(E)	8	#6	37'-0"	—
e16(E)	16	#5	38'-7"	—
e17(E)	16	#5	11'-0"	—
e18(E)	8	#5	35'-10"	—
e(E)	136	#5	4'-1"	—
REINFORCEMENT BARS, EPOXY COATED				114740
CONCRETE SUPERSTRUCTURE				430
BAR SPLICERS				748
BRIDGE DECK GROOVING				1783
PROTECTIVE COAT				1966



Notes:
1. Reinforcement bars designated (E) shall be epoxy coated.
2. Bars indicated thus 1 x 2-#5 etc. indicates 1 line of bar with 2 lengths per line.

PARAPET DETAILS
SOUTHBOUND
155/74 OVER THE S.P.C.S.L. CORP. RAILROAD
F.A.I. RTE. 55 (155/74) SECTION (57-6,7)R,6HB-3,7VBR
McLEAN COUNTY
STA. 593+76.86
STRUCTURE NUMBER: 057-0006

DESIGNED DAS
CHECKED NPP
DRAWN RSB/MBS
CHECKED NPP

HAZELET & ERDAL
DAMES & MOORE
FILE NUMBER 612\SPCSL\SB

5-1-D 3-31-25
3-14-11

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS 057-0006
(INFORMATION ONLY)

USER NAME = sherejm	DESIGNED -	REVISED -	SCALE: NONE	SHEET 3	OF 8 SHEETS	STA.	TO STA.	F.A.I. RTE. 55/74	SECTION (MBPM 2018)BJR	COUNTY MCLEAN	TOTAL SHEETS 25	SHEET NO. 9
PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -						ILLINOIS		FED. AID PROJECT		
PLOT DATE = 5/2/2018	DATE -	REVISED -						CONTRACT NO. 70C99				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

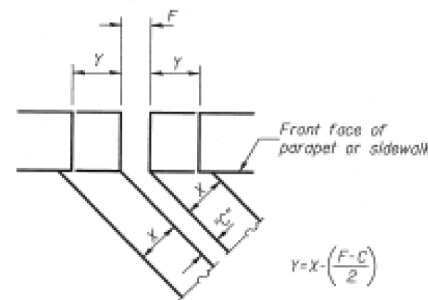
PROJECT NO.	SECTION	COUNTY	SHEET NO.	TOTAL SHEETS
F.A.I. 55	*	MCLEAN	339	285
SHEET NO. 12				
29 SHEETS				

Joint Size	10° at 50°F	10° at 50°F
2"	2"	1 1/2" Min.
2 1/2"	2 1/2"	1 3/4" Min.
4"	3"	2 1/2" Min.

INSTALLATION NOTES

- Install continuous seal in roadway, parapet, curb, and sidewalk.
- Install anchor blocks as indicated.

NOTE A: Maximum spacing of anchor bolts shall be 12" centers.



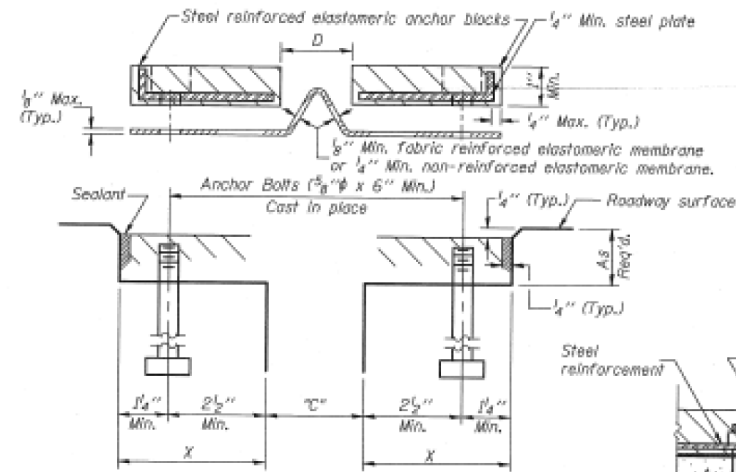
FORMING BLOCKOUT SKETCH

$$Y = X \cdot \left(\frac{F - C}{2} \right)$$

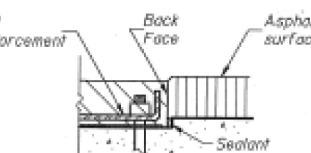
For dimension "F" see sheet # 9

SKREW LIMITATIONS

The details of the anchor blocks and the elastomeric membrane in the parapet, as shown, are for up to 50° skews. For skews greater than 50°, the anchor blocks and the elastomeric membrane, installed according to dimension "D", might require modifications to insure a minimum clearance of 1/2" from centerline of anchor studs to edge of parapet opening. The anchor blocks and the elastomeric membrane shall also be installed to the top of the parapet with the anchor studs spaced at ±12" cts.



CROSS SECTION



ANCHOR BLOCK WITH ASPHALT SURFACE

GENERAL NOTES

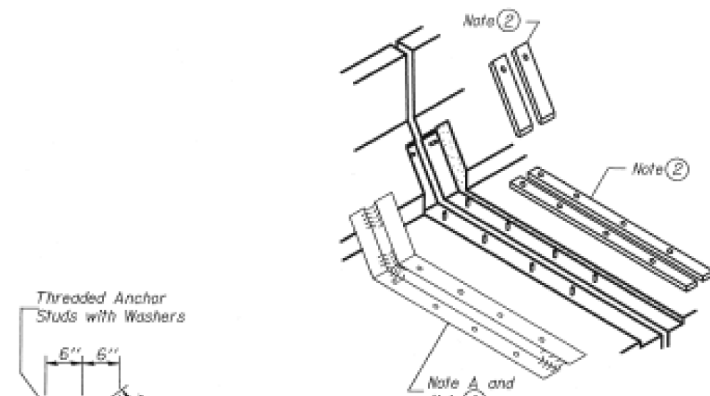
Continuous Seal Neoprene Expansion Joint shall consist of molded anchor blocks of elastomer and steel, field assembled over continuous lengths of elastomeric membrane.

The elastomeric membrane shall be preformed with a single or a double upward convolution that will have a "memory" to return to its molded position upon joint closure.

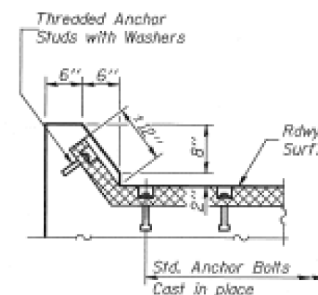
The convolution length shall be such that the extended length will not be greater than the manufactured length when the joint is fully expanded in its design range and will not protrude above the anchor blocks when the joint is fully compressed.

Joint openings shall be adjusted according to Article 503.10(c) of the Standard Specifications when the deck is poured at an ambient temperature other than 50° F.

The parapet and roadway membrane shall be made continuous by an approved vulcanizing process. Lapping will not be permitted.



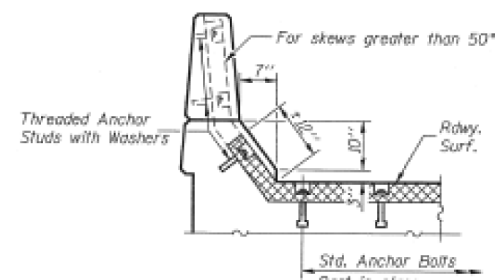
AT PARAPET



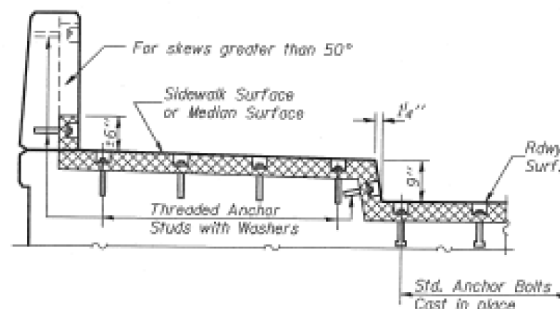
AT CURB

DESIGNED	CAD
CHECKED	NPP
DRAWN	RSB
CHECKED	NPP

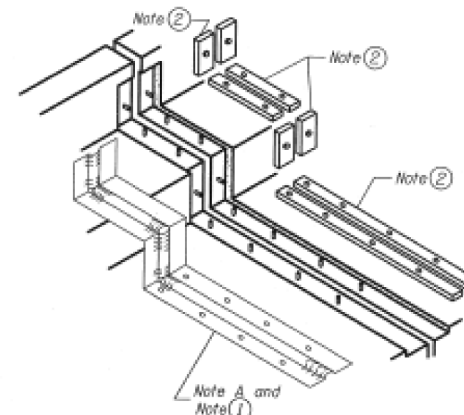
EJ-CS 4-30-97



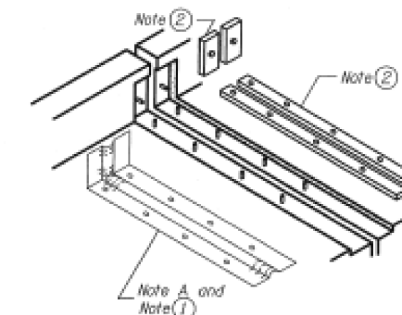
AT PARAPET



AT SIDEWALK OR MEDIAN TYPICAL END TREATMENTS



AT SIDEWALK OR MEDIAN



AT WALL

CONTINUOUS SEAL TYPE NEOPRENE EXPANSION JOINTS
For 2", 2 1/2" and 4" Movement

NEOPRENE EXPANSION JOINTS SOUTHBOUND
155/74 OVER S.P.C.S.L. CORP RAILROAD
F.A.I. RTE. 55 (155/74) SECTION 7VBR
MCLEAN COUNTY
STATION 593+76.86
STRUCTURE NO. 057-0006

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS 057-0006
(INFORMATION ONLY)

SCALE: NONE SHEET 4 OF 8 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55/74	(MBPM 2018)BJR	MCLEAN	25	10
CONTRACT NO. 70C99				
ILLINOIS FED. AID PROJECT				

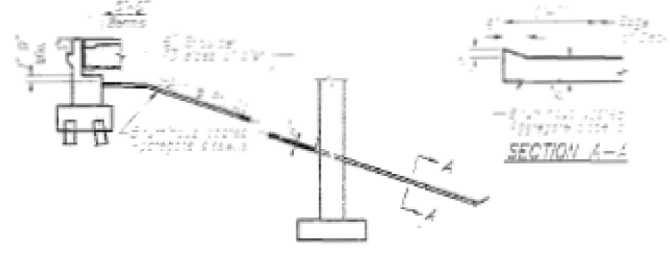
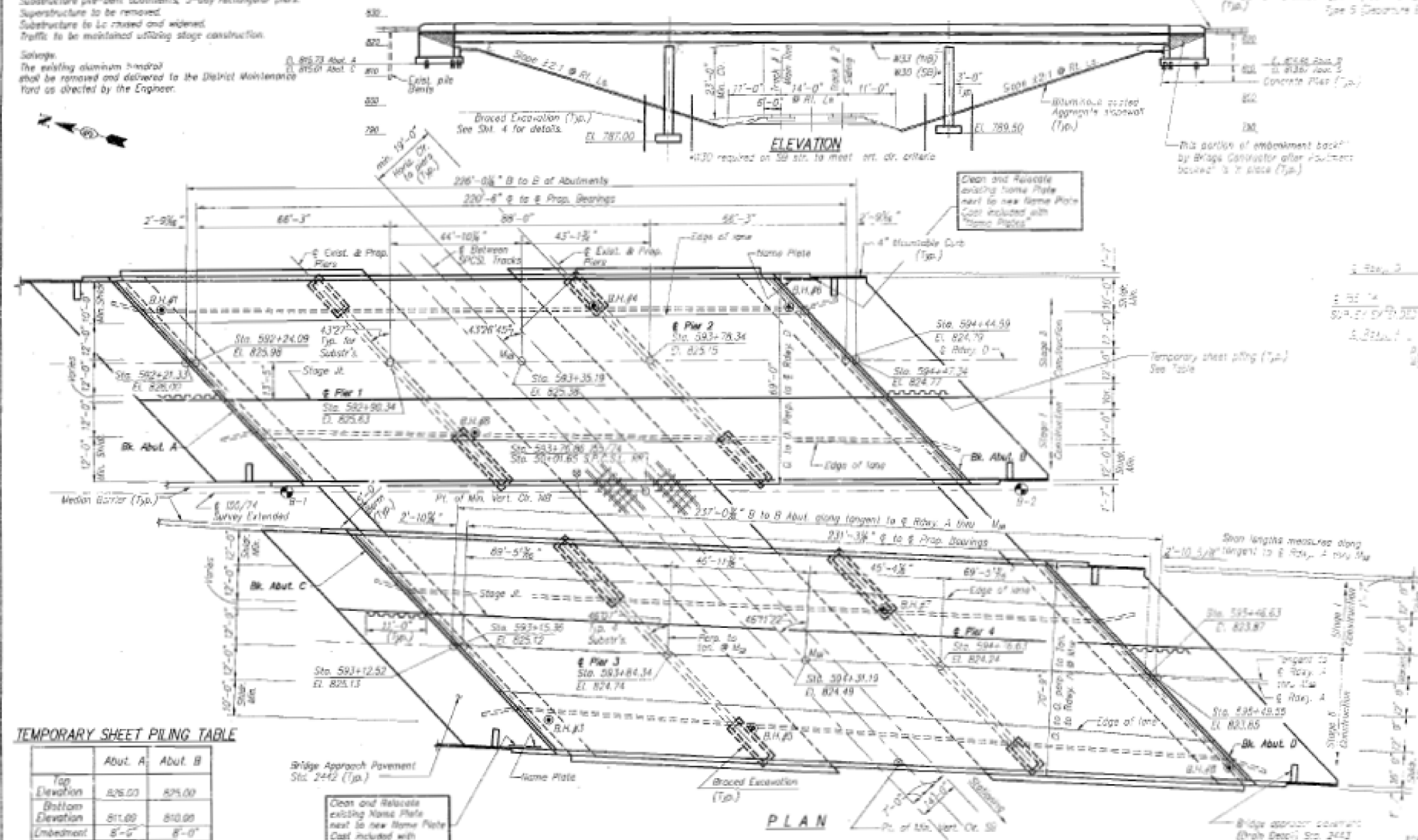
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NO. 55	SECTION	DATE	BY	CHKD.	DATE
55/74	(MBPM 2018)BJR	11B	77		

B.M. - Sta. 597+69.45, of 155/74 survey line extended 41.41 ft. square cut on top of wall between pier columns, elev. 803.58

Existing Structure: Sta. 593+76.52, F.A.I. Route 55, Sec. 57-7VBR Built in 1963, Structure numbers 057-0008 (S.B.) & 057-0007 (N.B.) Length back to back of abutments 223'-0" (1/8" N.B.), 237'-0" (1/2" S.B.) Width out to out of deck varies 41'-8 9/16" to 45'-6 5/8" (N.B.), 39'-0" to 45'-4 5/16" (S.B.) Superstructure reinforced concrete deck on steel beams. Substructure pile-bent abutments, 3-bay rectangular piers. Superstructure to be removed. Substructure to be raised and widened. Traffic to be maintained utilizing stage construction.

Salvage: The existing aluminum handrail shall be removed and delivered to the District Maintenance Yard as directed by the Engineer.



SECTION THROUGH SLOPEWALL

ALIGNMENT F.A.I. 55/74
ROADWAYS D & H
ROADWAYS A & G

GRADE DATA

STATION	ROADWAY A	ROADWAY B
592+00	825.00	825.00
592+10	825.00	825.00
592+20	825.00	825.00
592+30	825.00	825.00
592+40	825.00	825.00
592+50	825.00	825.00
592+60	825.00	825.00
592+70	825.00	825.00
592+80	825.00	825.00
592+90	825.00	825.00
593+00	825.00	825.00
593+10	825.00	825.00
593+20	825.00	825.00
593+30	825.00	825.00
593+40	825.00	825.00
593+50	825.00	825.00
593+60	825.00	825.00
593+70	825.00	825.00
593+80	825.00	825.00
593+90	825.00	825.00
594+00	825.00	825.00
594+10	825.00	825.00
594+20	825.00	825.00
594+30	825.00	825.00
594+40	825.00	825.00
594+50	825.00	825.00
594+60	825.00	825.00
594+70	825.00	825.00
594+80	825.00	825.00
594+90	825.00	825.00
595+00	825.00	825.00

TEMPORARY SHEET PILING TABLE

	Abut. A	Abut. B
Top Elevation	826.00	826.00
Bottom Elevation	811.00	810.00
Embedment	8'-0"	8'-0"
Minimum Section Modulus	8.1 in ³ /ft	

(See sheet 18 for details)

Graded Excavation at piers are estimated. The Contractor shall submit design to the Engineer for approval.

DESIGNED	NPP
CHECKED	WCM
DRAWN	RSB/SOI
CHECKED	WCM

HAZLET & ERDAL
DAMES & MOORE
FILE NUMBER 612/SP051/VBR

DESIGN SPECIFICATIONS

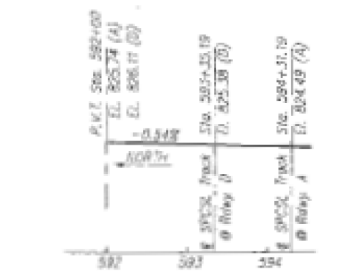
1992 AASHTO and 1993 and 1994 Interim
LOADING HS 20-44 & ALTERNATE
Allow 25g/sq. ft. for future wearing surface.

DESIGN STRESSES

FIELD UNITS
f_c = 3,500 psi
f_y = 60,000 psi (Rein.)
f_y = 50,000 psi (Struct.) (M270 Gr.50)

SEISMIC DATA

Seismic Performance Category (S.P.C.) = A
Acceleration Coefficient (A) = 0.045g
Site Coefficient (S) = 1.0



PROFILE GRADE ROADWAYS A & D

NOTE: Profile Grade & crown line of Roadway D is 0.17' above Profile Grade of Roadway A.

STATION 593+35.19
REBUILT 1997 BY
STATE OF ILLINOIS
F.A.I. RTE. 55 SEC.57-7VBR
F.A. PROJ.
LOADING HS20
STR. NO. 057-0007

NORTHBOUND NAME PLATE

STATION 594+31.19
REBUILT 1997 BY
STATE OF ILLINOIS
F.A.I. RTE. 55 SEC.57-7VBR
F.A. PROJ.
LOADING HS20
STR. NO. 057-0008

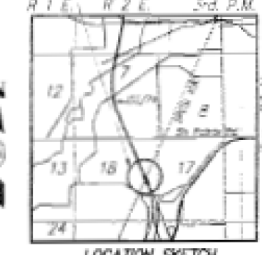
SOUTHBOUND NAME PLATE

TOP OF TRACK ELEVATION

Station	Track # 1	Track # 2
49+00	798.20	797.74
50+00	797.89	797.30
51+00	797.56	797.07
52+00	797.23	796.88



APPROVED
FOR STRUCTURAL ACCURACY ONLY



LOCATION SKETCH

This drawing includes information for Northbound as well as Southbound. Information related to the Southbound Structure is for information only (By Others).

GENERAL PLAN AND ELEVATION
NORTHBOUND
155/74 OVER THE S.P.C.S.L. CORP. RAILROAD
F.A.I. RTE. 55 (155/74) SECTION 57-7VBR
McLEAN COUNTY
Sta. 593+76.86
STRUCTURE NUMBER: 057-0007

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DRAWN -	REVISION -	
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PLOT DATE = 5/2/2018	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

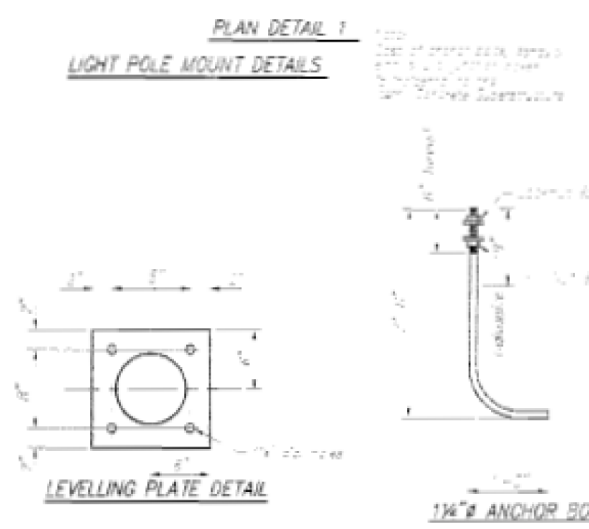
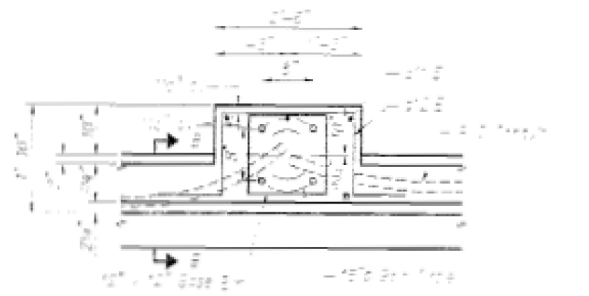
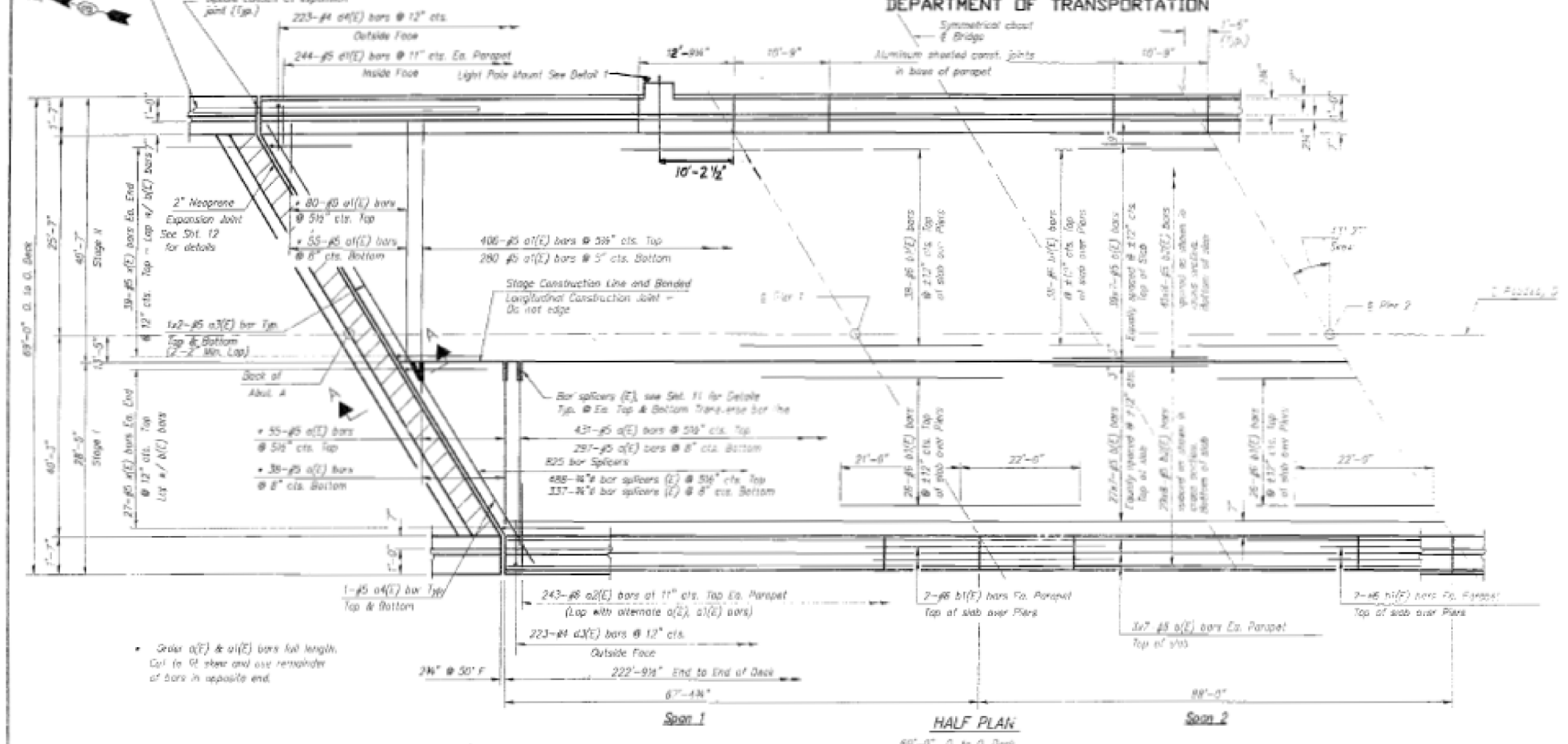
AS-BUILT PLANS 057-0007
(INFORMATION ONLY)

SCALE: NONE SHEET 5 OF 8 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55/74	(MBPM 2018)BJR	MCLEAN	25	11
CONTRACT NO. 70C99			ILLINOIS FED. AID PROJECT	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DATE	BY	CHKD	APP	SCALE
05/15/18	LRM	NPP	RSB	AS-BUILT

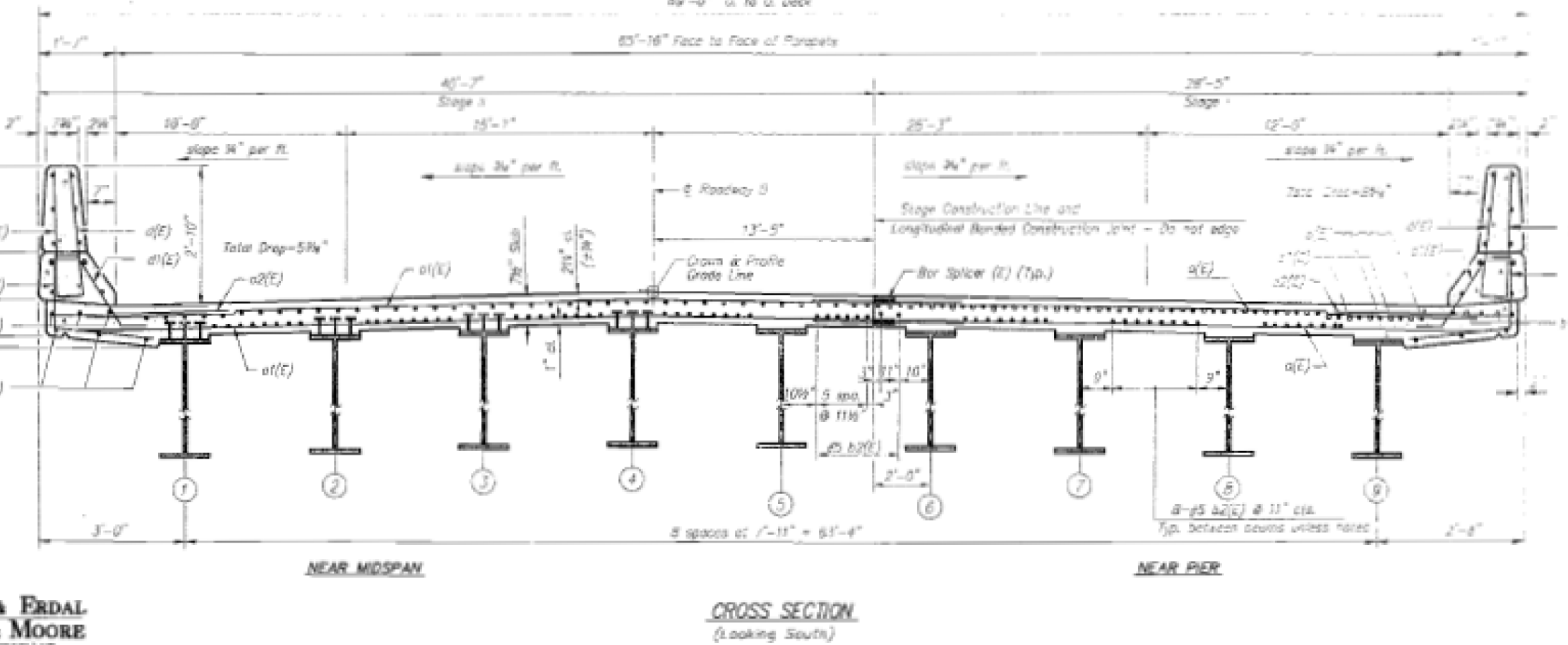


Order a1(E) & a1(E) bars full length. Cut to fit and use remainder of bars in opposite end.

- See Sheet 057-0007 for Superstructure Details, Parapet Reinforcement and 2" of Slabs.
- Reinforcement shall be placed in accordance with the above details.
- Bars indicated shall be placed with 90 degree bends.
- See Sheet 057-0007 for Section 57-7VBR and Section 57-8.
- Minimum concrete cover shall be 2" for all bars.
- Reinforcement shall be placed in accordance with the above details.

DESIGNED	LRM
CHECKED	NPP
DRAWN	RSB/MBS
CHECKED	NPP

**HAZLET & ERDAL
DAMES & MOORE**
FILE NUMBER 672/SPOC/1/18



**DECK REINFORCEMENT
NORTHBOUND
155/74 OVER THE S.P.C.S.L. CORP RAILROAD
F.A.I. RTE. 55 (155/74) SECTION 57-7VBR
MCLEAN COUNTY
STA. 593+76.86
STRUCTURE NUMBER: 057-0007**

MODEL: MOD057-0007
FILE NAME: P:\ILLINOIS\BID\NITEC\ibids\gov\p\DOT\Documents\DOT_Offices\District 5\Projects\057-0007\CADD\Bids\Structure\057-0007-01-01-Final\Bids.dwg

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	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 5/2/2018	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

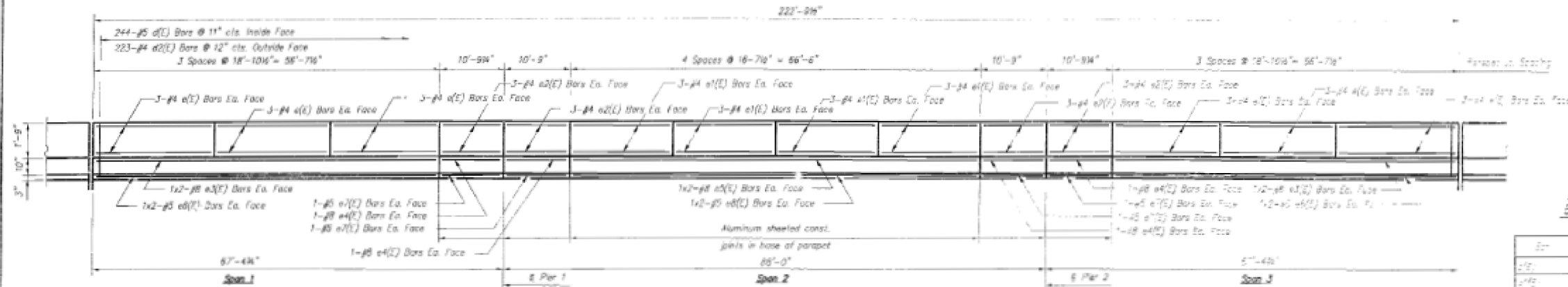
AS-BUILT PLANS 057-0007
(INFORMATION ONLY)

SCALE: NONE SHEET 6 OF 8 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55/74	(MBPM 2018)BJR	MCLEAN	25	12
CONTRACT NO. 70C99			ILLINOIS FED. AID PROJECT	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

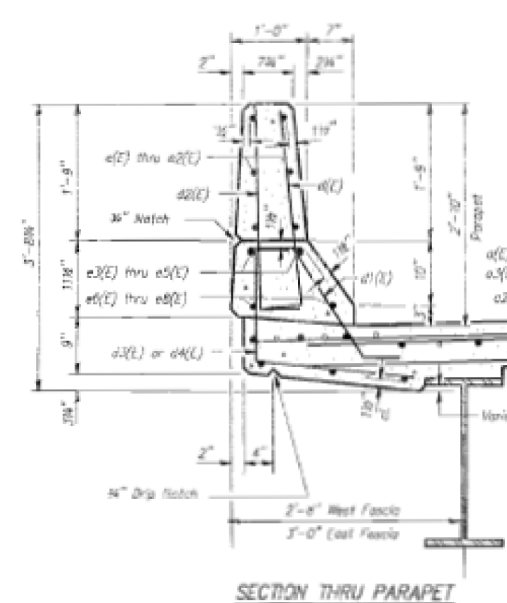
DATE	BY	CHECKED	SCALE	NO.
			1/8"	85



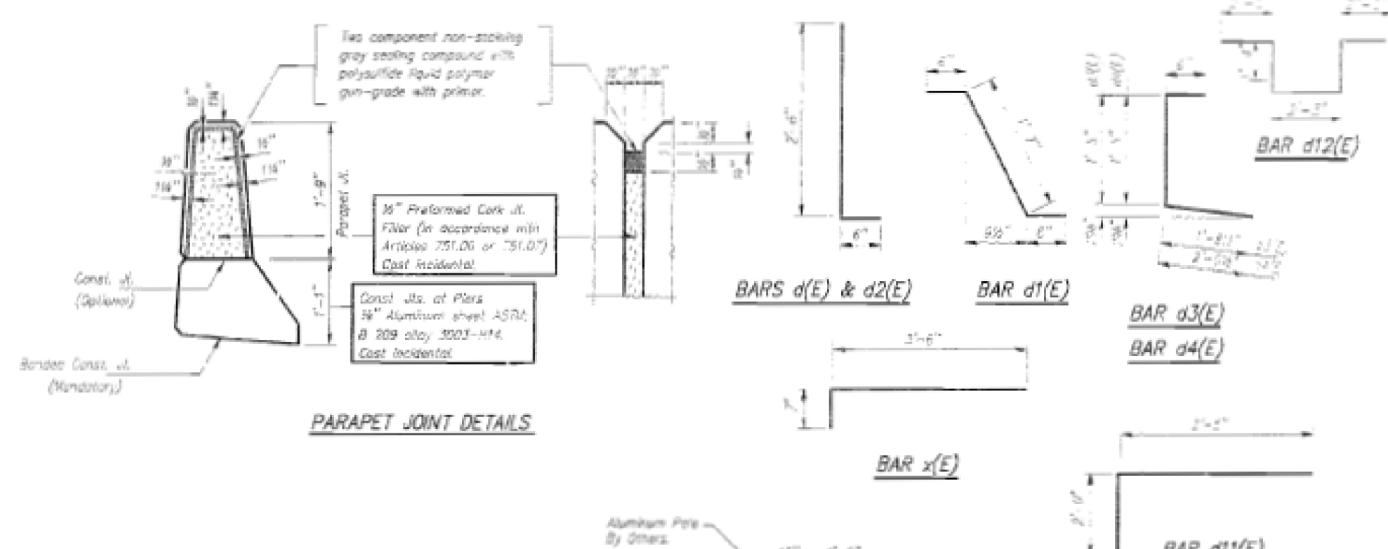
SUPERSTRUCTURE
BILL OF MATERIAL

Bar	Qty	Size	Length	Notes
e1(E)	27	#4	27'-0"	
e2(E)	27	#4	27'-0"	
e3(E)	27	#4	27'-0"	
e4(E)	27	#4	27'-0"	
e5(E)	27	#4	27'-0"	
e6(E)	27	#4	27'-0"	
e7(E)	27	#4	27'-0"	
e8(E)	27	#4	27'-0"	
e9(E)	27	#4	27'-0"	
e10(E)	27	#4	27'-0"	
e11(E)	27	#4	27'-0"	
e12(E)	27	#4	27'-0"	
e13(E)	27	#4	27'-0"	
e14(E)	27	#4	27'-0"	
e15(E)	27	#4	27'-0"	
e16(E)	27	#4	27'-0"	
e17(E)	27	#4	27'-0"	
e18(E)	27	#4	27'-0"	
e19(E)	27	#4	27'-0"	
e20(E)	27	#4	27'-0"	
e21(E)	27	#4	27'-0"	
e22(E)	27	#4	27'-0"	
e23(E)	27	#4	27'-0"	
e24(E)	27	#4	27'-0"	
e25(E)	27	#4	27'-0"	
e26(E)	27	#4	27'-0"	
e27(E)	27	#4	27'-0"	
e28(E)	27	#4	27'-0"	
e29(E)	27	#4	27'-0"	
e30(E)	27	#4	27'-0"	
e31(E)	27	#4	27'-0"	
e32(E)	27	#4	27'-0"	
e33(E)	27	#4	27'-0"	
e34(E)	27	#4	27'-0"	
e35(E)	27	#4	27'-0"	
e36(E)	27	#4	27'-0"	
e37(E)	27	#4	27'-0"	
e38(E)	27	#4	27'-0"	
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e44(E)	27	#4	27'-0"	
e45(E)	27	#4	27'-0"	
e46(E)	27	#4	27'-0"	
e47(E)	27	#4	27'-0"	
e48(E)	27	#4	27'-0"	
e49(E)	27	#4	27'-0"	
e50(E)	27	#4	27'-0"	
e51(E)	27	#4	27'-0"	
e52(E)	27	#4	27'-0"	
e53(E)	27	#4	27'-0"	
e54(E)	27	#4	27'-0"	
e55(E)	27	#4	27'-0"	
e56(E)	27	#4	27'-0"	
e57(E)	27	#4	27'-0"	
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e61(E)	27	#4	27'-0"	
e62(E)	27	#4	27'-0"	
e63(E)	27	#4	27'-0"	
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e66(E)	27	#4	27'-0"	
e67(E)	27	#4	27'-0"	
e68(E)	27	#4	27'-0"	
e69(E)	27	#4	27'-0"	
e70(E)	27	#4	27'-0"	
e71(E)	27	#4	27'-0"	
e72(E)	27	#4	27'-0"	
e73(E)	27	#4	27'-0"	
e74(E)	27	#4	27'-0"	
e75(E)	27	#4	27'-0"	
e76(E)	27	#4	27'-0"	
e77(E)	27	#4	27'-0"	
e78(E)	27	#4	27'-0"	
e79(E)	27	#4	27'-0"	
e80(E)	27	#4	27'-0"	
e81(E)	27	#4	27'-0"	
e82(E)	27	#4	27'-0"	
e83(E)	27	#4	27'-0"	
e84(E)	27	#4	27'-0"	
e85(E)	27	#4	27'-0"	
e86(E)	27	#4	27'-0"	
e87(E)	27	#4	27'-0"	
e88(E)	27	#4	27'-0"	
e89(E)	27	#4	27'-0"	
e90(E)	27	#4	27'-0"	
e91(E)	27	#4	27'-0"	
e92(E)	27	#4	27'-0"	
e93(E)	27	#4	27'-0"	
e94(E)	27	#4	27'-0"	
e95(E)	27	#4	27'-0"	
e96(E)	27	#4	27'-0"	
e97(E)	27	#4	27'-0"	
e98(E)	27	#4	27'-0"	
e99(E)	27	#4	27'-0"	
e100(E)	27	#4	27'-0"	

INSIDE ELEVATION OF PARAPET



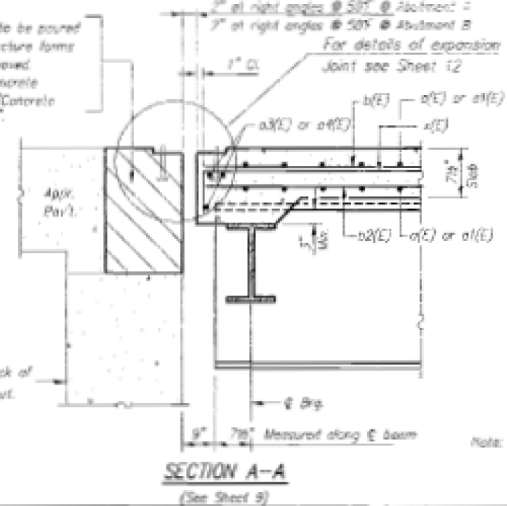
Min. Bar Lap
#5 Bar = 2'-2"
#8 Bar = 4'-6"



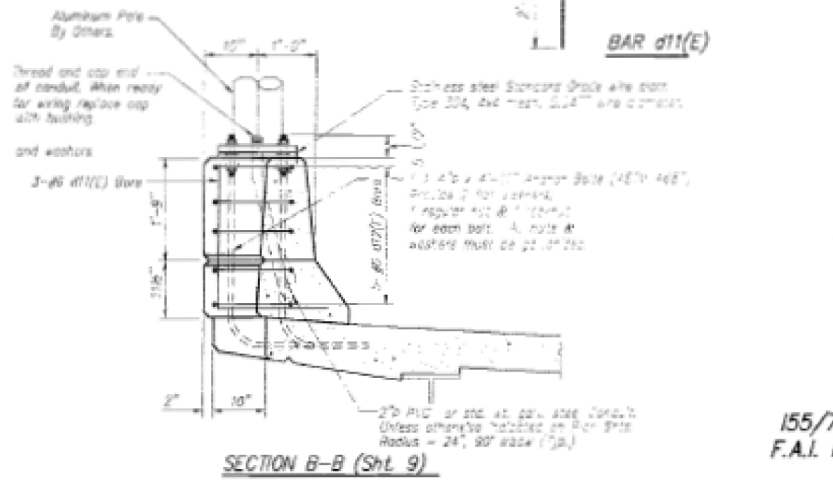
PARAPET JOINT DETAILS

DESIGNED	LRM
CHECKED	NPP
DRAWN	RSB/MBS
CHECKED	NPP

**HAZLET & ERDAL
DAMES & MOORE**
P.O. BOX 612 / SPEC. 1/10



SECTION A-A
(See Sheet 9)



SECTION B-B (Shl. 9)

**PARAPET DETAILS
NORTHBOUND
155/74 OVER S.P.C.S.L. CORP. RAILROAD
F.A.I. RTE. 55 (155/74) SECTION 57-7VBR
MCLEAN COUNTY
Sta. 593+76.86
STRUCTURE NUMBER: 057-0007**

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS 057-0007
(INFORMATION ONLY)

USER NAME	= sherejm	DESIGNED	-	REVISED	-
DRAWN	-	CHECKED	-	REVISED	-
PLOT SCALE	= 40.0000 "/td> <td>CHECKED</td> <td>-</td> <td>REVISED</td> <td>-</td>	CHECKED	-	REVISED	-
PLOT DATE	= 5/2/2018	DATE	-	REVISED	-

SCALE: NONE SHEET 7 OF 8 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55/74	(MBPM 2018)BJR	MCLEAN	25	13
CONTRACT NO. 70C99			ILLINOIS FED. AID PROJECT	

Joint Size	"C" of 50°F	"D" of 50°F
2"	2"	1 1/2" Min.
2 1/2"	2 1/2"	1 3/4" Min.
4"	3"	2 1/2" Min.

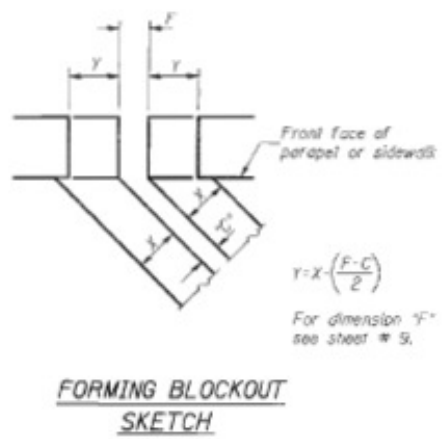
INSTALLATION NOTES

1. Install sponge mandrels into positions shown to form flap convolution.
2. Install parapet or sidewalk piece (trim roadway flap to fit before applying epoxy).
3. Install continuous seal in roadway.
4. Install anchor blocks as indicated.

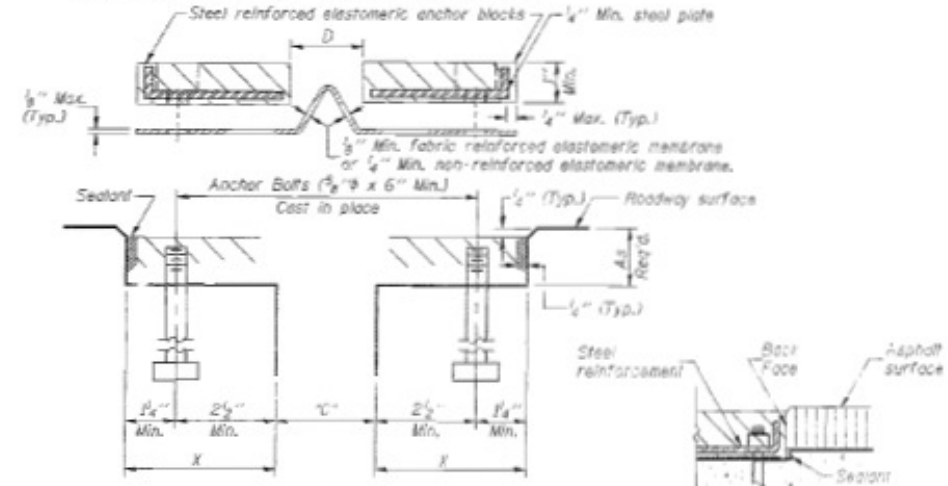
NOTE A: Maximum spacing of anchor bolts shall be 12" centers.

SKEW LIMITATIONS

The details of the anchor blocks and the elastomeric membrane in the parapet, as shown, are for up to 50° skews. For skews greater than 50°, the anchor blocks and the elastomeric membrane, installed in accordance with dimension "D", might require modifications to insure a minimum clearance of 1/2" from centerline of anchor studs to edge of parapet opening. The anchor blocks and the elastomeric membrane shall also be installed to the top of the parapet with the anchor studs spaced at ±12" cts.



STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION



GENERAL NOTES

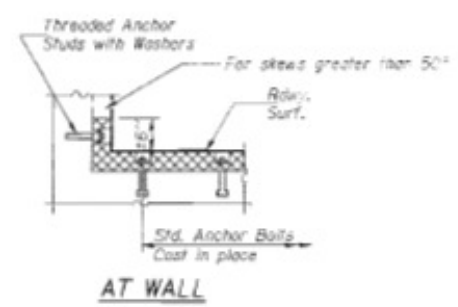
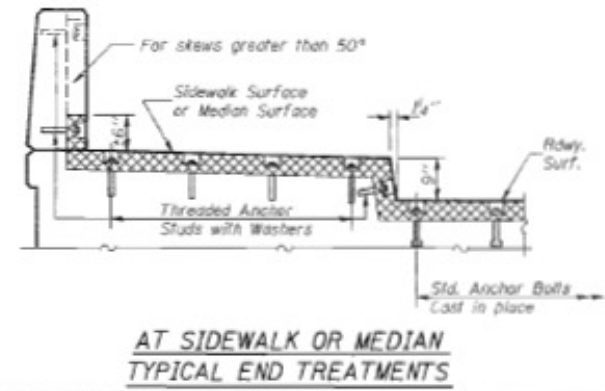
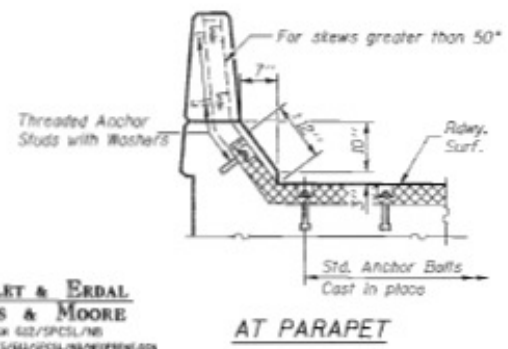
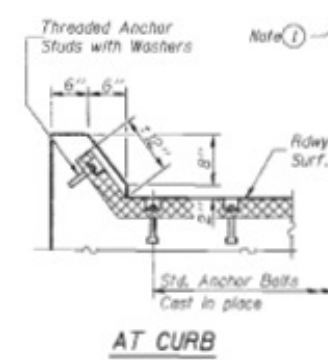
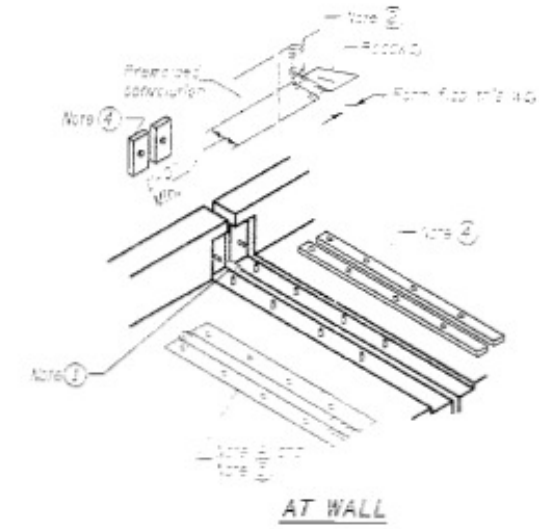
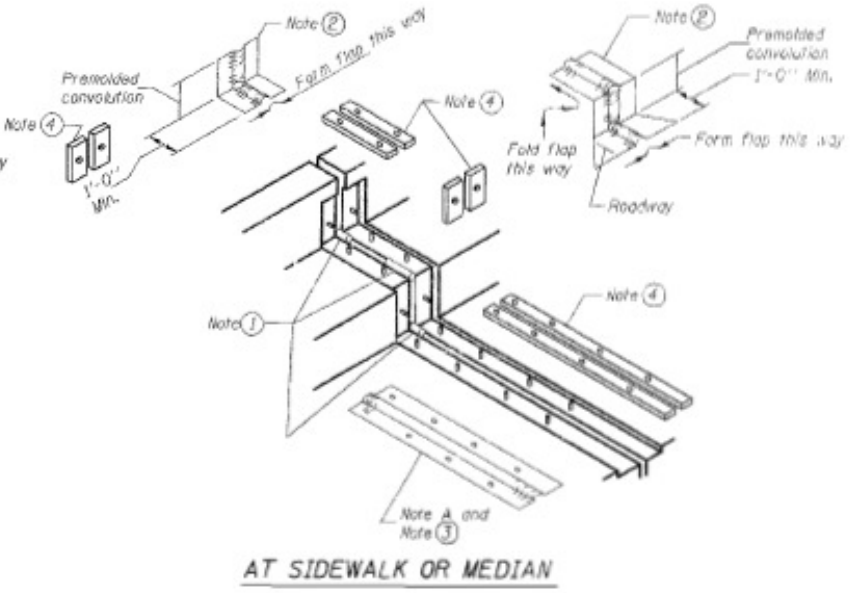
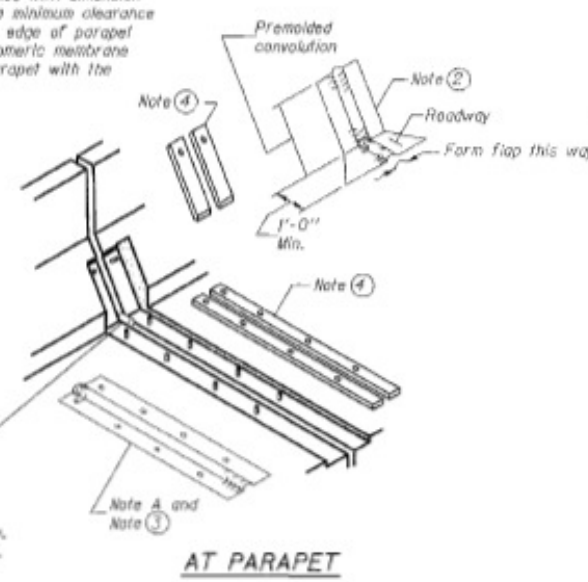
Continuously Sealed Neoprene Expansion Joints and joints of metal anchor blocks of elastomer and steel. They assembled over continuous lengths of elastomeric membrane.

The elastomeric membrane shall be provided with a shape and depth which shall conform with the shape and depth of the roadway surface. The elastomeric membrane shall be provided with a shape and depth which shall conform with the shape and depth of the roadway surface.

The convolution length and depth shall be such that the expanded length will not be greater than the manufactured length when the joint is fully expanded in the design range and will not produce stress in the anchor blocks when the joint is fully compressed.

Joint opening shall be calculated in accordance with Article 503.01 of the Standard Specifications when the seal is poured in an ambient temperature other than 50°F.

The parapet and sidewalk flap may be furnished factory attached to the roadway membrane provided the centerline of the convolution is maintained and the process and method meet the approval of the Engineer.



DESIGNED	CAD
CHECKED	NPP
DRAWN	RSB
CHECKED	NPP
EJ-CS	7-1-94

HAZELT & BERDAL DAMES & MOORE
FILE NUMBER: 02/SPCSL/NO
6100 WILSON AVENUE, CHICAGO, ILLINOIS 60644

CONTINUOUS SEAL TYPE NEOPRENE EXPANSION JOINTS
For 2", 2 1/2" and 4" Movement

NEOPRENE EXPANSION JOINTS NORTHBOUND
155/74 OVER S.P.C.S.L. CORP. RAILROAD
F.A.I. RTE. 55 (155/74) SECTION 57-7VBR
McLEAN COUNTY
Sta. 593+76.86
STRUCTURE NUMBER: 057-0007

MODEL: MODIF.MAINT. FILE NAME: P:\ILLINOIS\BID\DOT\Documents\DOT Office\District 5\Projects\057099\CADD\057099\Structures\057099-01-FinalPlans.dwg

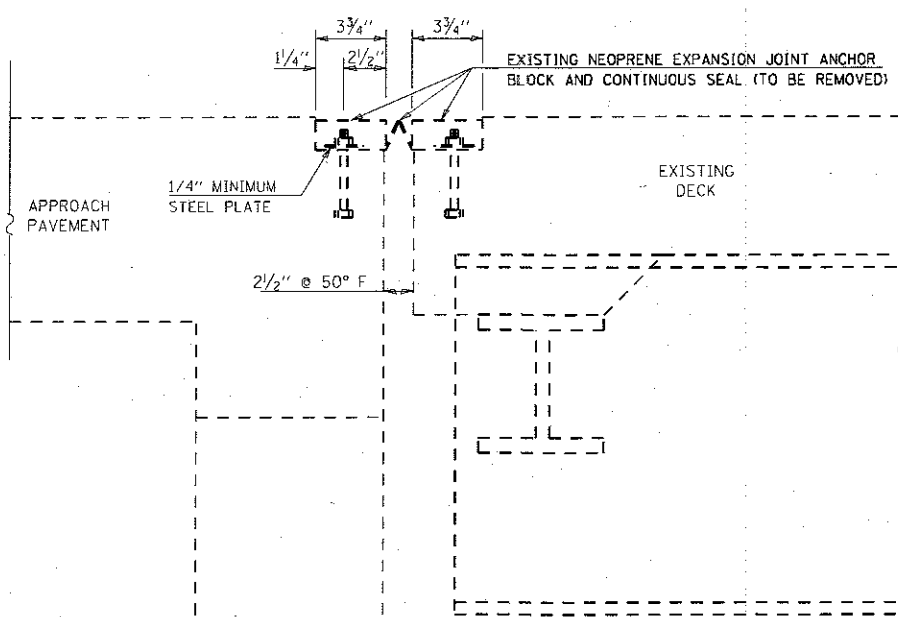
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	DRAWN -	REVISED -
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PLOT DATE = 5/2/2018	DATE -	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

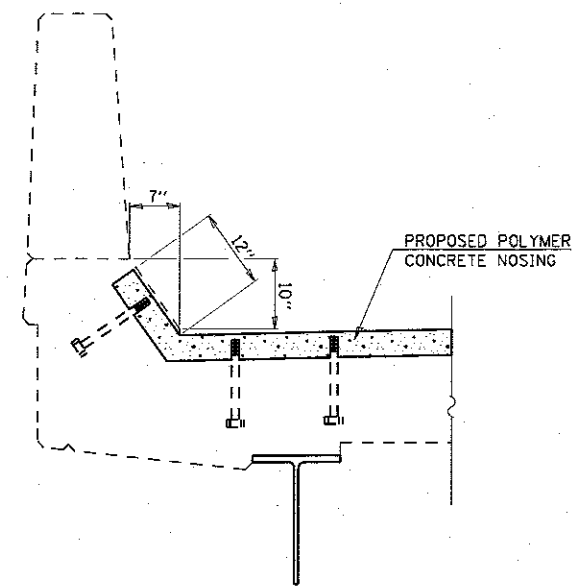
AS-BUILT PLANS 057-0007 (INFORMATION ONLY)

SCALE: NONE SHEET 8 OF 8 SHEETS STA. TO STA.

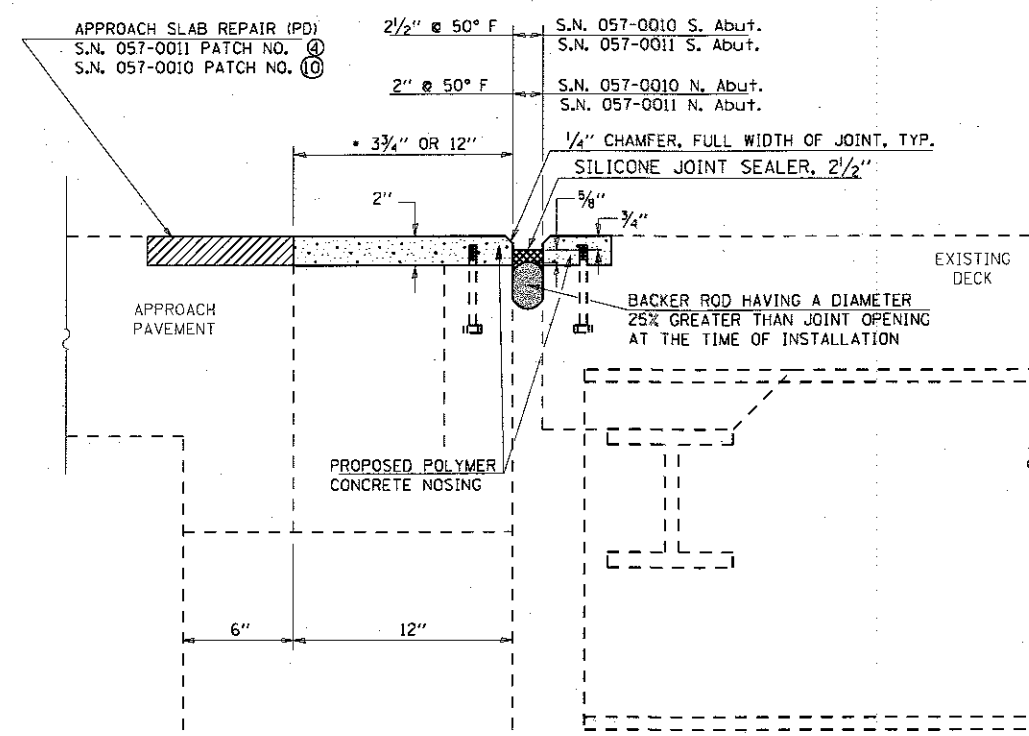
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55/74	(MBPM 2018)BJR	MCLEAN	25	14
CONTRACT NO. 70C99				
ILLINOIS FED. AID PROJECT				



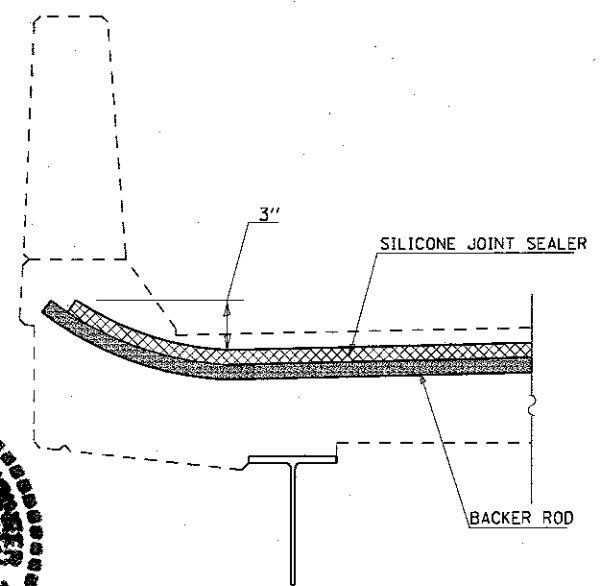
SECTION A-A AT JOINT (EXISTING)



SECTION AT PARAPET
POLYMER CONCRETE NOSING



SECTION A-A AT JOINT (PROPOSED)



SECTION AT PARAPET
SILICONE JOINT SEALER

General Notes

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

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

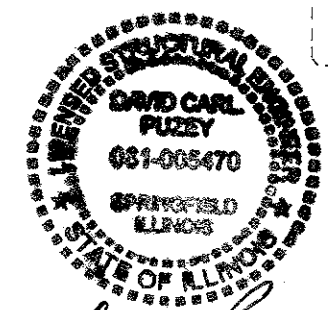
Removal of the existing Neoprene Expansion Joint shall be included with the cost of SILICONE JOINT SEALER and POLYMER CONCRETE.

Proposed Improvements

1. Remove existing Neoprene Expansion Joint
2. Perform Deck Slab Repair (Partial Depth)
3. Place Polymer Concrete Nosing
4. Place Backer Rod
5. Place Silicone Joint Sealer

BILL OF MATERIALS

Item	Unit	Total
Approach Slab Rep (Partial Depth)	Sq. Yd.	28.0
Deck Slab Repair (Partial Depth)	Sq. Yd.	6.3
Silicone Joint Sealer, 2"	Foot	168.0
Silicone Joint Sealer, 2 1/2"	Foot	168.0
Polymer Concrete	Cu. Ft.	56.0



David Carl Puzey 5/17/18
Expires 11/30/18

• 3 3/4" TYP.
12" AT S.N. 057-0011 N. ABUT.
12" AT S.N. 057-0010 S. ABUT.

MODEL: P:\MODEL\NAME: FILE NAME: P:\V\048\B\1\H\TEC\I\mod\proj\W\DOT\Documents\DOT_Office\0570010\0570010\0570010.dgn

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PLOT SCALE = 40,000' / in.	DRAWN -	REVISED -
PLOT DATE = 5/2/2018	CHECKED - MLD	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

JOINT REPAIR DETAILS			
S.N. 057-0010 & S.N. 057-0011			
SCALE: NONE	SHEET 1	OF 2 SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55/74	(MBPM 2018)BJR	MCLEAN	25	15
CONTRACT NO. 70C99				
ILLINOIS FED. AID PROJECT				

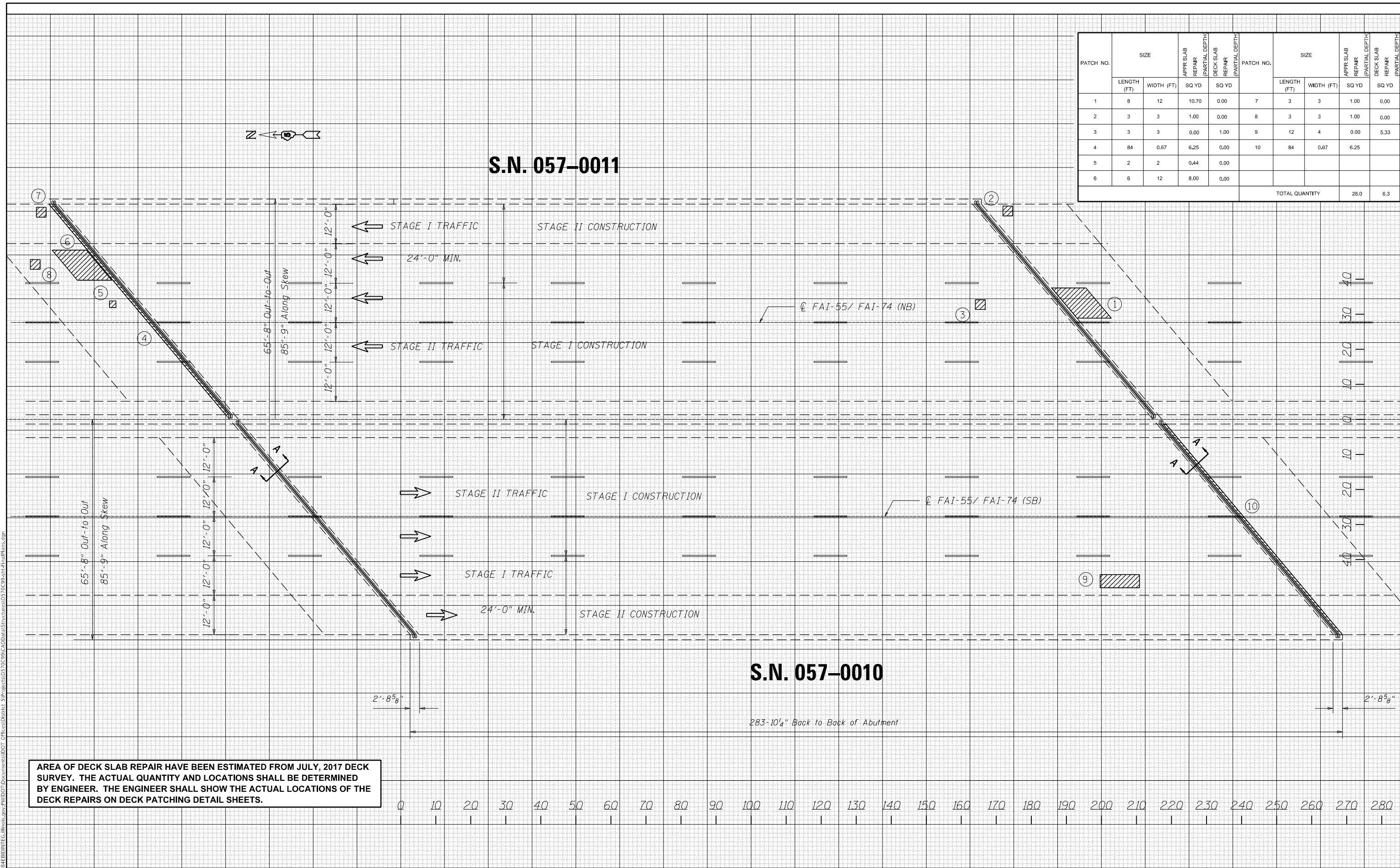
DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	

S.N. 057-0011

S.N. 057-0010

PATCH NO.	SIZE		APPR SLAB REPAIR (PARTIAL DEPTH) SQ YD	DECK SLAB REPAIR (PARTIAL DEPTH) SQ YD	PATCH NO.	SIZE		APPR SLAB REPAIR (PARTIAL DEPTH) SQ YD	DECK SLAB REPAIR (PARTIAL DEPTH) SQ YD
	LENGTH (FT)	WIDTH (FT)				LENGTH (FT)	WIDTH (FT)		
1	8	12	10.70	0.00	7	3	3	1.00	0.00
2	3	3	1.00	0.00	8	3	3	1.00	0.00
3	3	3	0.00	1.00	9	12	4	0.00	5.33
4	84	0.67	6.25	0.00	10	84	0.67	6.25	
5	2	2	0.44	0.00					
6	6	12	8.00	0.00					
TOTAL QUANTITY								28.0	6.3



AREA OF DECK SLAB REPAIR HAVE BEEN ESTIMATED FROM JULY, 2017 DECK SURVEY. THE ACTUAL QUANTITY AND LOCATIONS SHALL BE DETERMINED BY ENGINEER. THE ENGINEER SHALL SHOW THE ACTUAL LOCATIONS OF THE DECK REPAIRS ON DECK PATCHING DETAIL SHEETS.

USER NAME = shererjm	DESIGNED -	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 5/2/2018	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAIL OF PARTIAL DEPTH PATCHING
S.N. 057-0010 & S.N. 057-0011

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

F.A.I. RTE. 55/74	SECTION (MBPM 2018)BJR	COUNTY MCLEAN	TOTAL SHEETS 25	SHEET NO. 16
CONTRACT NO. 70C99			ILLINOIS FED. AID PROJECT	

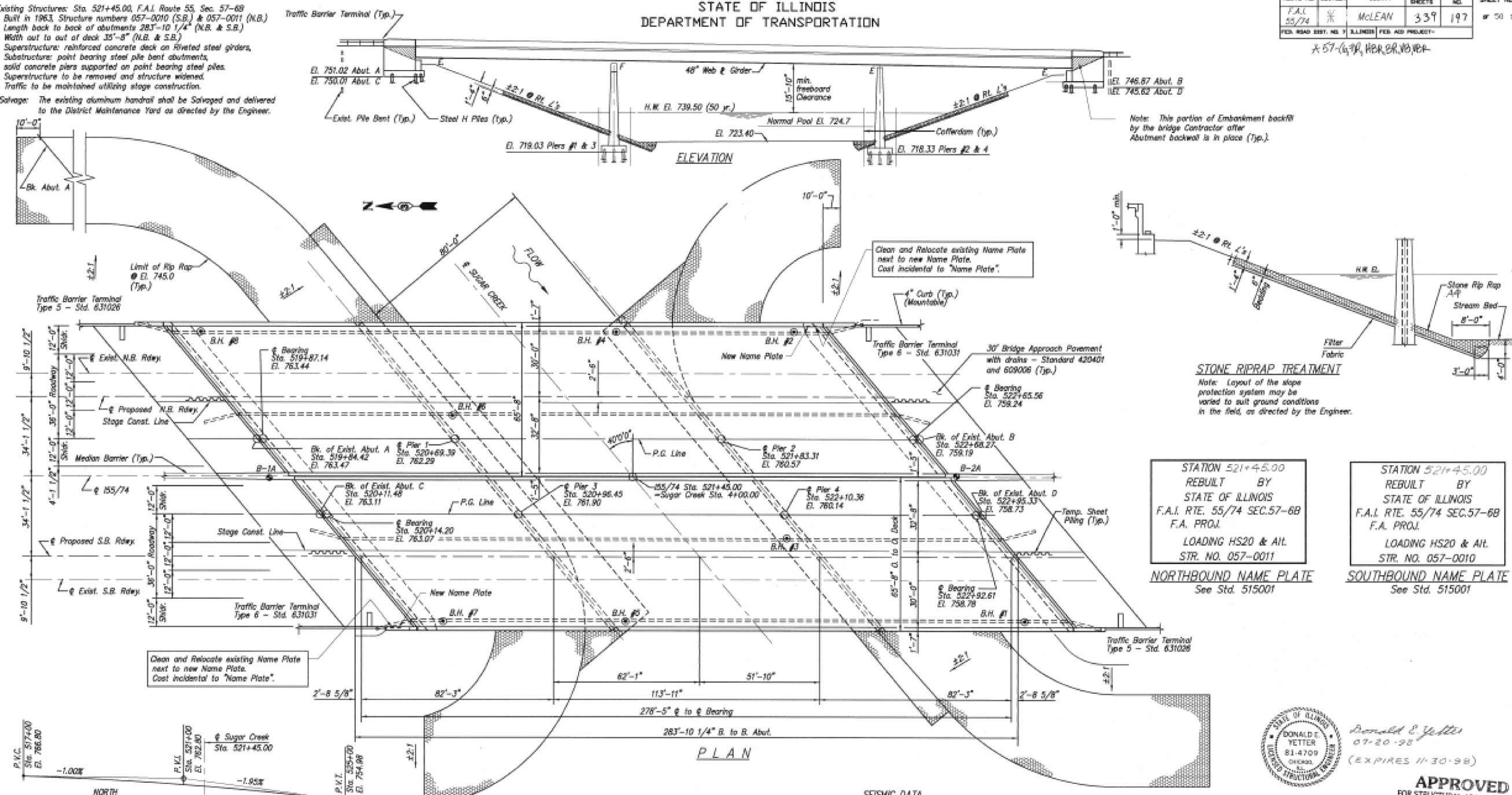
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 55/74	57	McLEAN	339	197
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT-		

B.M. Sta. 521+27.45, 162.59' LL, RR spike in electric pole, Elev. 741.22

Existing Structures: Sta. 521+45.00, F.A.I. Route 55, Sec. 57-6B
Built in 1963, Structure numbers 057-0010 (S.B.) & 057-0011 (N.B.)
Length back to back of abutments 283'-10 1/4" (N.B. & S.B.)
Width out to out of deck 35'-8" (N.B. & S.B.)
Superstructure: reinforced concrete deck on riveted steel girders,
Substructure: point bearing steel pile bent abutments,
solid concrete piers supported on point bearing steel piles.
Superstructure to be removed and structure widened.
Traffic to be maintained utilizing stage construction.

Salvage: The existing aluminum handrail shall be salvaged and delivered to the District Maintenance Yard as directed by the Engineer.



Note: This portion of Embankment backfill by the bridge Contractor after Abutment backfill is in place (Typ.).

STONE RIPRAP TREATMENT
Note: Layout of the slope protection system may be varied to suit ground conditions in the field, as directed by the Engineer.

STATION 521+45.00
REBUILT BY
STATE OF ILLINOIS
F.A.I. RTE. 55/74 SEC.57-6B
F.A. PROJ.
LOADING HS20 & AIL
STR. NO. 057-0011
NORTHBOUND NAME PLATE
See Std. 515001

STATION 521+45.00
REBUILT BY
STATE OF ILLINOIS
F.A.I. RTE. 55/74 SEC.57-6B
F.A. PROJ.
LOADING HS20 & AIL
STR. NO. 057-0010
SOUTHBOUND NAME PLATE
See Std. 515001

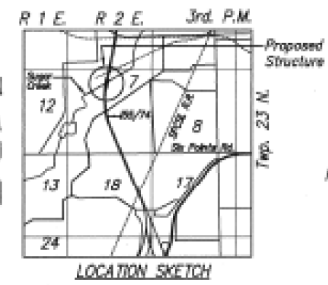


Ronald E. Yetter
07-20-98
(EXPIRES 11-30-98)

APPROVED
FOR STRUCTURAL ADEQUACY ONLY

Ralph C. Williams
ENGINEER OF BRIDGES AND STRUCTURES

GENERAL PLAN & ELEVATION
NORTHBOUND AND SOUTHBOUND
155/74 OVER SUGAR CREEK
F.A.I. RTE. 55 (155/74) SECTION 57-6B
STA. 521+45.00
McLEAN COUNTY
STRUCTURE NUMBER: 057-0010 (S.B.)
057-0011 (N.B.)



SEISMIC DATA
Seismic Performance Category (S.P.C.)= A
Acceleration Coefficient (A)= 0.045g
Site Coefficient (S)= 1.0

DESIGN SPECIFICATIONS
1992 AASHTO, 1993 and 1994 INTERMS.

LOADING HS 20-44 & ALTERNATE
Allow 25#/sq. ft. for future wearing surface.

DESIGN STRESSES
FIELD UNITS
f_c = 3,500 psi
f_y = 60,000 psi (Reinf.)
f_y = 50,000 psi (Struct.) (M270, Gr.50)
f_y = 38,000 psi (Struct.) (M270, Gr.36)

WATERWAY INFORMATION

Flood Yr.	Freq.	C.F.S.	Opening	Sq. Ft.	Nat.	Head-FL	Headwater-EL
Design	50	1750	15.57	15.57	739.5	0	739.4
Base	100	8630	1551	1551	739.6	0	739.6
Overlapping							
Max. Calc.	500	10,700	1740	1740	741.0	0	741.0

PROFILE GRADE 1-55/74
(AT MEDIAN EDGE OF PAVEMENT)

DESIGNED	DEM
CHECKED	NPP
DRAWN	SOI
CHECKED	NPP



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS 057-0010 & 057-0011
(INFORMATION ONLY)

USER NAME = sherejm
PLOT SCALE = 40.0000" / in.
PLOT DATE = 5/2/2018

DESIGNED	-	REVISED	-
DRAWN	-	REVISED	-
CHECKED	-	REVISED	-
DATE	-	REVISED	-

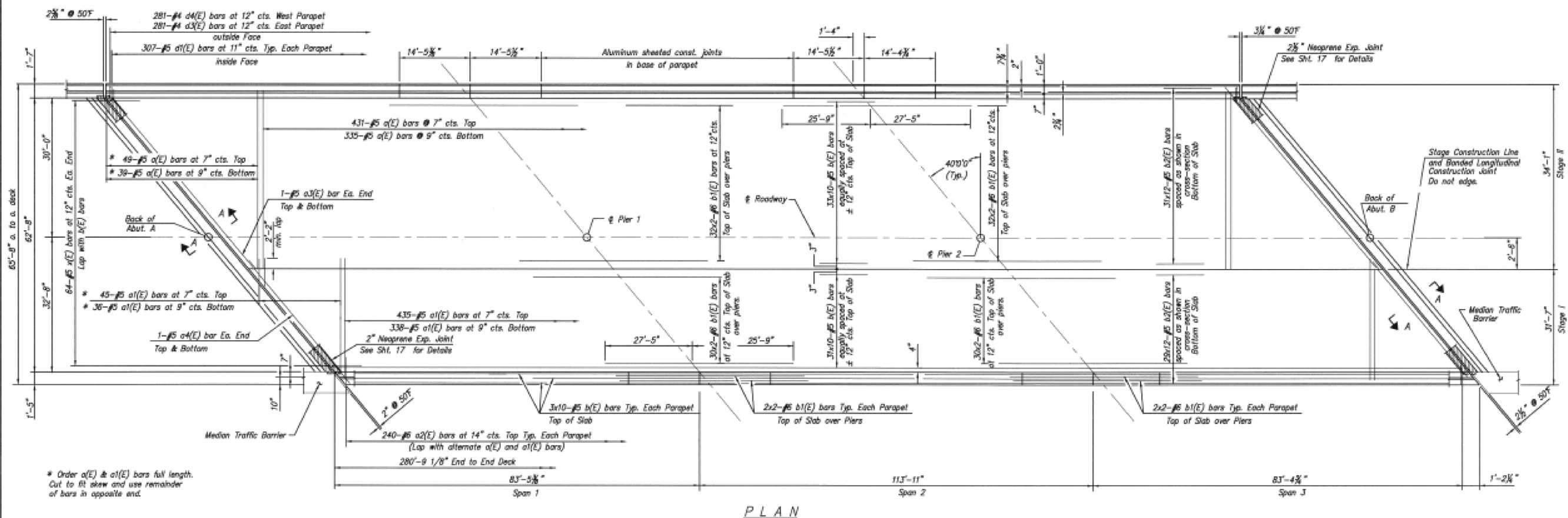
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55/74	(MBPM 2018)BJR	McLEAN	25	17
ILLINOIS FED. AID PROJECT			CONTRACT NO. 70C99	

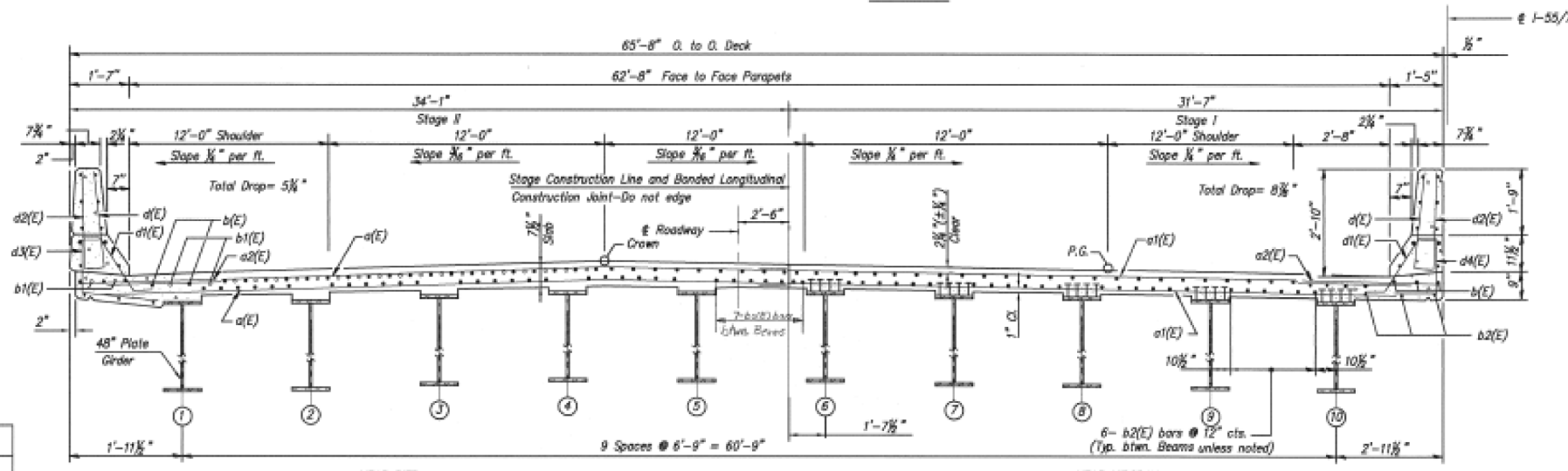
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 13
F.A.I. 55/74	1/2	McLEAN	339	209	OF 30 SHEETS
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					

*57-0017R, HER, BR, NB, VBR



PLAN



CROSS SECTION
(Looking South)

- Notes:**
1. Reinforcement bars designated (E) shall be epoxy coated.
 2. Bars indicated thus 31 x 10-#5 etc. indicates 31 lines of bars with 10 lengths per line.
 3. See sheet 14 for superstructure details, and Bill of Material and parapet reinforcement.
 4. See sheet 14 for section A-A. Min. bar lap for #5 bar = 2'-2\"/>

DECK REINFORCEMENT
NORTHBOUND
155/74 OVER SUGAR CREEK
F.A.I. RTE. 55 (155/74) SECTION 57-6B
McLEAN COUNTY
Sta. 521+45.00
STRUCTURE NUMBER: 057-0011

DESIGNED	EAB
CHECKED	DEM
DRAWN	MBS
CHECKED	DEM



MODEL: MODEL.MAKES FILE NAME: P:\ILLINOIS\PROJECTS\70C99\CADD\DATA\STRUCTURE\0570011\PLAN.DWG

USER NAME = sherrjm	DESIGNED -	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 5/2/2018	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

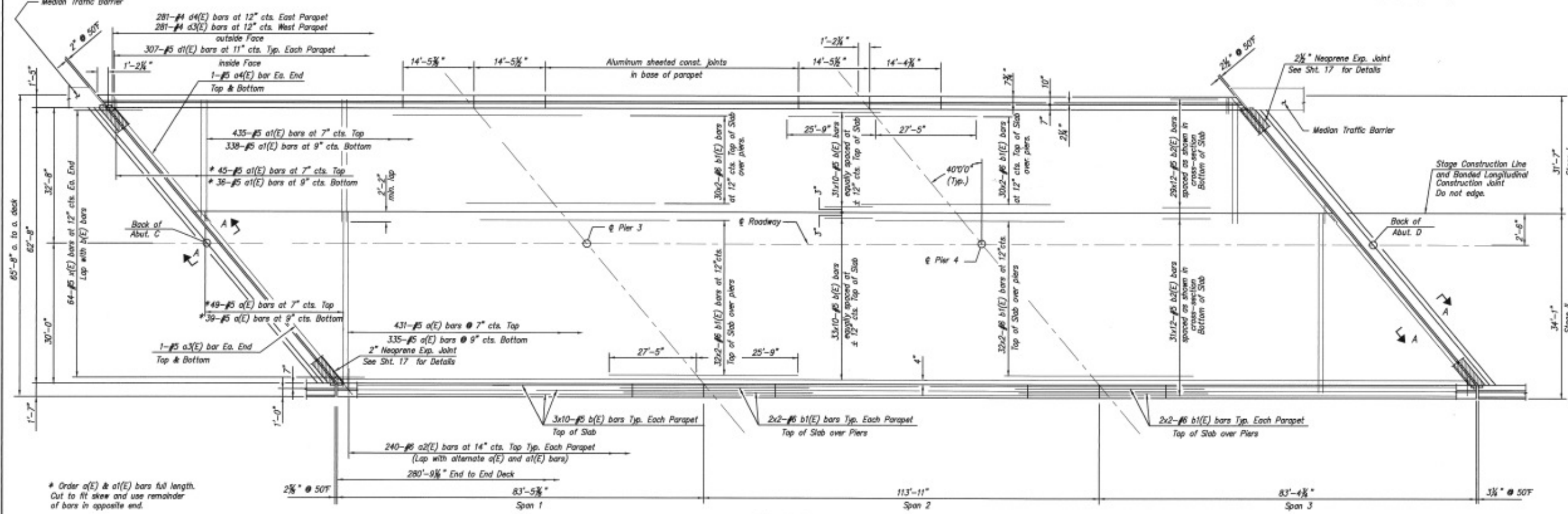
AS-BUILT PLANS 057-0010 & 057-0011
(INFORMATION ONLY)

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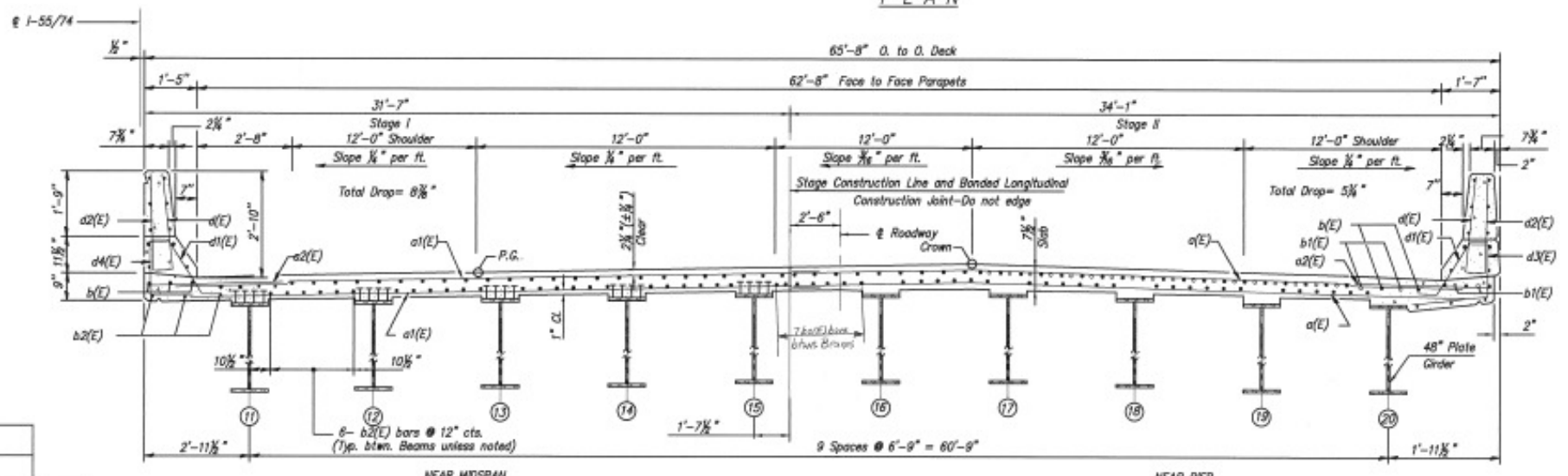
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55/74	(MBPM 2018)BJR	McLEAN	25	18
CONTRACT NO. 70C99				
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO.
F.A.I. 55/74	McLEAN	McLEAN	339	211	OF 30 SHEETS
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT #57-6B, H&R, B&N, V&P					



* Order a(E) & a1(E) bars full length. Cut to fit skew and use remainder of bars in opposite end.



- Notes:
1. Reinforcement bars designated (E) shall be epoxy coated.
 2. Bars indicated thus 31 x 10-#5 etc. indicates 31 lines of bars with 10 lengths per line.
 3. See sheet 16 for superstructure details, and B11 of Material and parapet reinforcement.
 4. See sheet 16 for section A-A. Min. bar lap for #5 bar = 2'-2". Min. bar lap for #6 bar = 2'-7".

DESIGNED	EAB
CHECKED	DEM
DRAWN	MBS
CHECKED	DEM



**DECK REINFORCEMENT
SOUTHBOUND**
155/74 OVER SUGAR CREEK
F.A.I. RTE. 55 (155/74) SECTION 57-6B
McLEAN COUNTY
Sta. 521+45.00
STRUCTURE NUMBER: 057-0010

MODEL: MOD057-0010.DWG FILE: 057-0010.DWG PROJECT: 057-0010.DWG DATE: 5/2/2018

USER NAME = sherejm	DESIGNED -	REVISED -
PLOT SCALE = 40.0000 "/in.	DRAWN -	REVISED -
PLOT DATE = 5/2/2018	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS 057-0010 & 057-0011 (INFORMATION ONLY)			
SCALE: NONE	SHEET 4	OF 6 SHEETS	STA. TO STA.

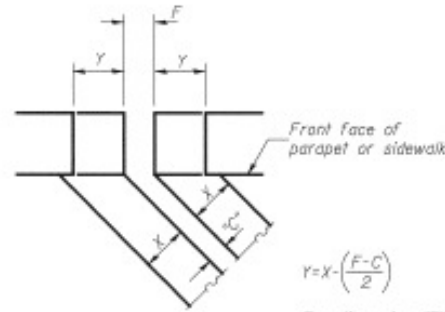
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55/74	(MBPM 2018)BJR	McLEAN	25	20
CONTRACT NO. 70C99				
ILLINOIS FED. AID PROJECT				

Joint Size	"C" at 50°F	"D" at 50°F
2"	2"	1 1/2" Min.
2 1/2"	2 1/2"	1 3/4" Min.
4"	3"	2 1/2" Min.

INSTALLATION NOTES

- ① Install continuous seal in roadway, parapet, curb, and sidewalk.
- ② Install anchor blocks as indicated.

NOTE A: Maximum spacing of anchor bolts shall be 12" centers.



$$Y = X \cdot \left(\frac{F - C}{2} \right)$$

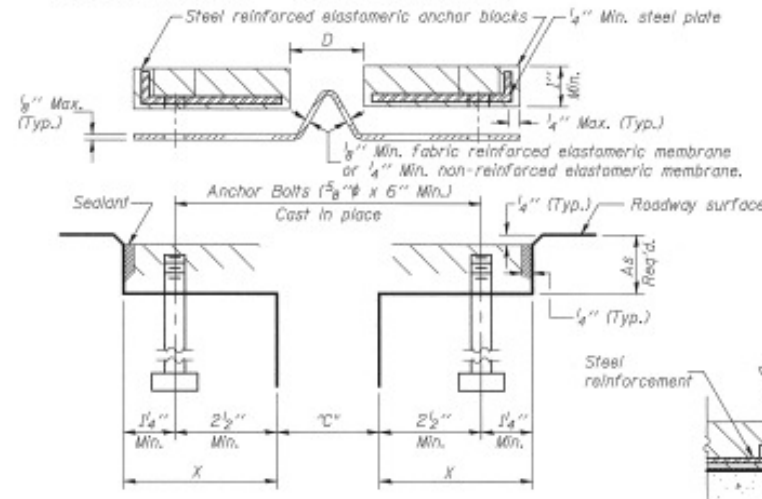
For dimension "F" see sheet #

SKEW LIMITATIONS

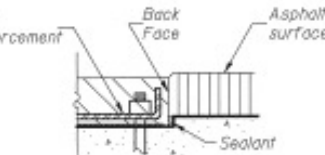
The details of the anchor blocks and the elastomeric membrane in the parapet, as shown, are for up to 50° skews. For skews greater than 50°, the anchor blocks and the elastomeric membrane, installed according to dimension "D", might require modifications to insure a minimum clearance of 1/2" from centerline of anchor studs to edge of parapet opening. The anchor blocks and the elastomeric membrane shall also be installed to the top of the parapet with the anchor studs spaced at ±12" cts.

FORMING BLOCKOUT SKETCH

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION



CROSS SECTION

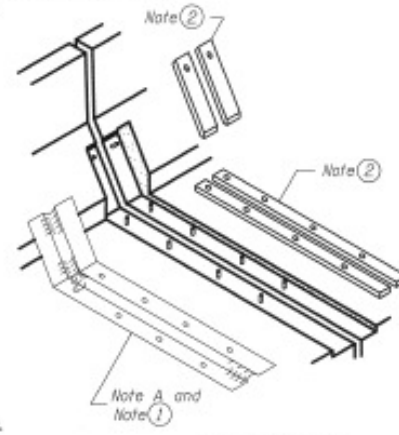


ANCHOR BLOCK WITH ASPHALT SURFACE

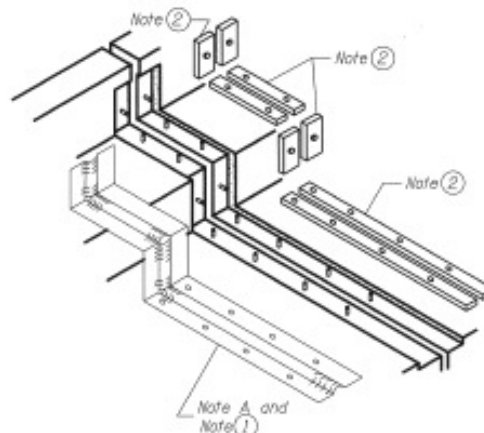
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. OF 60 SHEETS
F.A.I. 55	*	MCLEAN	339	213	

GENERAL NOTES

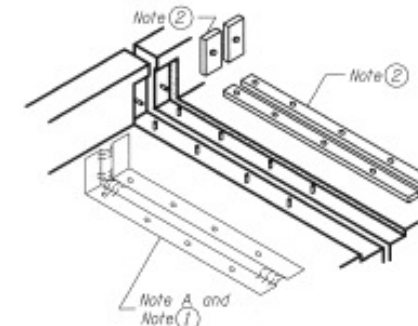
Continuous Seal Neoprene Expansion Joint shall consist of mated anchor blocks of elastomer and steel, field assembled over continuous lengths of elastomeric membrane. The elastomeric membrane shall be pre-molded with a single or a double upward convolution that will have a "memory" to return to its mated position upon joint closure. The convolution length shall be such that the extended length will not be greater than the manufactured length when the joint is fully expanded in its design range and will not protrude above the anchor blocks when the joint is fully compressed. Joint openings shall be adjusted according to Article 503.10(c) of the Standard Specifications when the deck is poured at an ambient temperature other than 50° F. The parapet and roadway membrane shall be made continuous by an approved vulcanizing process. Lapping will not be permitted.



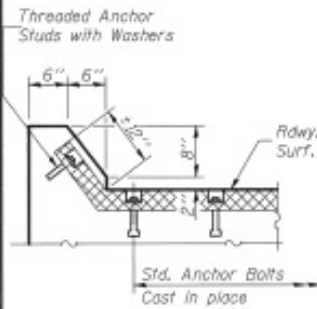
AT PARAPET



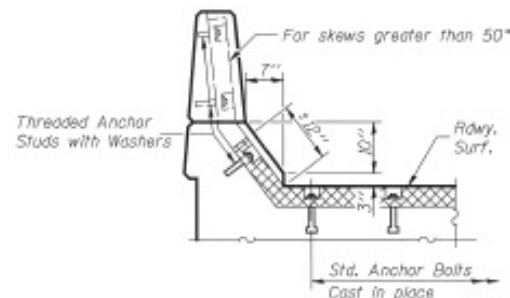
AT SIDEWALK OR MEDIAN



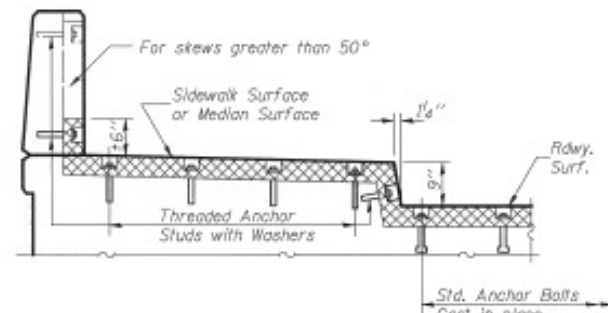
AT WALL



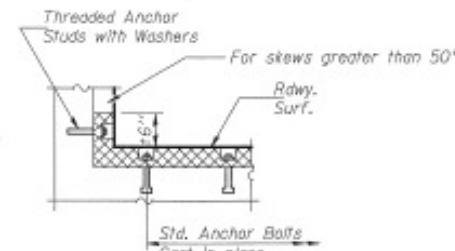
AT CURB



AT PARAPET



AT SIDEWALK OR MEDIAN TYPICAL END TREATMENTS



AT WALL

DESIGNED	CAD
CHECKED	DEM
DRAWN	MGS
CHECKED	DEM

DAMES & MOORE
FILE NUMBER 612-SUGAR
6/10/07/05-112/SUGAR/NEOPRENE

EJ-CS 4-30-97

CONTINUOUS SEAL TYPE NEOPRENE EXPANSION JOINTS
For 2", 2 1/2" and 4" Movement

NORTHBOUND AND SOUTHBOUND I55/74 OVER SUGAR CREEK
F.A.I. RTE. 55 (I55/74) SECTION 57-6B
MCLEAN COUNTY
Sta. 521+45.00
STRUCTURE NUMBER: 057-0011 (N.B.)
057-0010 (S.B.)

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS 057-0010 & 057-0011 (INFORMATION ONLY)

USER NAME = sherejm	DESIGNED -	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 5/2/2018	CHECKED -	REVISED -
	DATE -	REVISED -

SCALE: NONE SHEET 6 OF 6 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55/74	(MBPM 2018)BJR	MCLEAN	25	22

CONTRACT NO. 70C99
ILLINOIS FED. AID PROJECT

MODEL: \\MODELS\MAME... FILE: \\MODELS\PROJECTS\570C99\CADD\DATA\STRUCTURE\570C99-213-Final.dwg

PLAN NOTES:

ALL STAGING DETAILS SHALL BE IN ACCORDANCE WITH TRAFFIC CONTROL (SPECIAL) AND PAID FOR AT THE CONTRACT UNIT PRICE PER EACH LOCATION.

FOR ADDITIONAL DETAILS ASSOCIATED WITH TRAFFIC CONTROL (SPECIAL) SEE HIGHWAY STANDARDS 701400, 701400, 701401& 701406 701428 & 701446.

EXISTING OR TEMPORARY PAVEMENT MARKINGS SHALL BE ON BOTH SIDES OF THE OPEN LANES. PAVEMENT MARKINGS THAT CONFLICT WITH STAGED TRAFFIC MARKINGS SHALL BE COVERED WITH BLACK OUT TAPE. THIS WORK SHALL BE INCLUDED IN THE COST FOR TRAFFIC CONTROL AND PROTECTION (SPECIAL).

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

"LANE SHIFT" AND "STAY IN LANES" SIGNS SHALL BE SUPPLIED AND ERECTED BY THE CONTRACTOR. COST INCLUDED WITH TRAFFIC CONTROL AND PROTECTION (SPECIAL).

PRIOR TO ROUTING TRAFFIC ONTO SHOULDERS, THE CONTRACTOR SHALL SECURE ANY GRATES ON SHOULDER INLETS AS DIRECTED BY ENGINEER. THIS WORK SHALL BE PAID FOR ACCORDING TO ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

○ TYPE II BARRICADES OR DRUMS WITH MONO-DIRECTIONAL STEADY BURNING LIGHTS AT 50' CTS. (COST INCLUDED WITH TC&P (SPL))

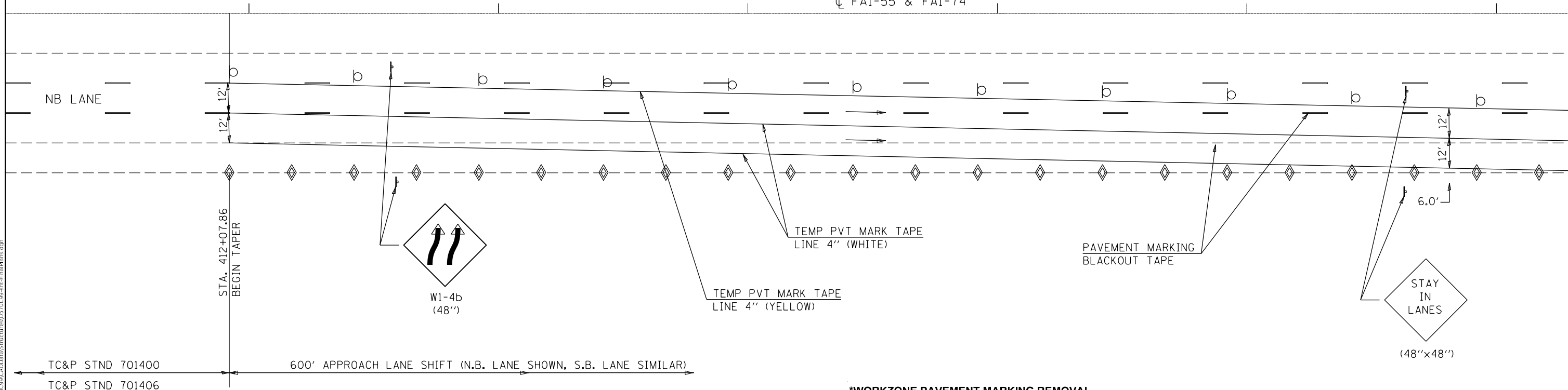
◇ TYPE B OR C MONODIRECTIONAL REFLECTORS AT 25' CTS. (COST INCLUDED WITH TC&P (SPL))



***TEMPORARY PAVEMENT MARKING TAPE - LINE 4"**

STRUCTURE	STATION	TO	STATION	LT EDGE LINE	CTR LINE	RT EDGE LINE
				YELLOW FOOT	WHITE FOOT	WHITE FOOT
057-0006 SB	586+00.00		599+60.00	1,360.0	1,360.0	1,360.0
057-0007 NB	586+95.00		600+66.00	1,371.0	1,371.0	1,371.0
057-0010 SB	513+67.00		527+88.00	1,421.0	1,421.0	1,421.0
057-0011 NB	513+94.00		528+15.00	1421.0	1,421.0	1,421.0
TOTAL =				5,573.0	5,573.0	5,573.0

☉ FAI-55 & FAI-74



***PAVEMENT MARKING BLACKOUT TAPE**

STRUCTURE	STATION	TO	STRUCTURE	SKIP DASH FOOT	EDGE LINE FOOT
057-0006 SB	586+00.00		599+60.00	340.0	1360.0
057-0007 NB	586+95.00		600+66.00	342.8	1371.0
057-0010 SB	513+67.00		527+88.00	355.3	1421.0
057-0011 NB	513+94.00		528+15.00	355.3	1421.0
TOTAL =				1,393.3	5,573.0
USE =				1,393.0	5,573.0

***WORKZONE PAVEMENT MARKING REMOVAL**

STRUCTURE	STATION	TO	STATION	LT EDGE LINE	CTR LINE	RT EDGE LINE
				YELLOW SQ FT	WHITE SQ FT	WHITE SQ FT
057-0006 SB	586+00.00		599+60.00	452.9	452.9	452.9
057-0007 NB	586+95.00		600+66.00	456.5	456.5	456.5
057-0010 SB	513+67.00		527+88.00	473.2	473.2	473.2
057-0011 NB	513+94.00		528+15.00	473.2	473.2	473.2
TOTAL =				1,855.8	1,855.8	1,855.8
USE =				1,856.0	1,856.0	1,856.0

*COST INCLUDED WITH TRAFFIC CONTROL AND PROTECTION (SPECIAL)

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USER NAME = shererjm	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 5/2/2018	DATE -	REVISED -

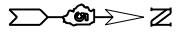
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAIL OF TRAFFIC CONTROL & PROTECTION (SPECIAL)

SCALE: NONE SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.I. RTE. 55/74	SECTION (MBPM2018)BJR	COUNTY MCLEAN	TOTAL SHEETS 25	SHEET NO. 23
CONTRACT NO. 70C99			ILLINOIS FED. AID PROJECT	

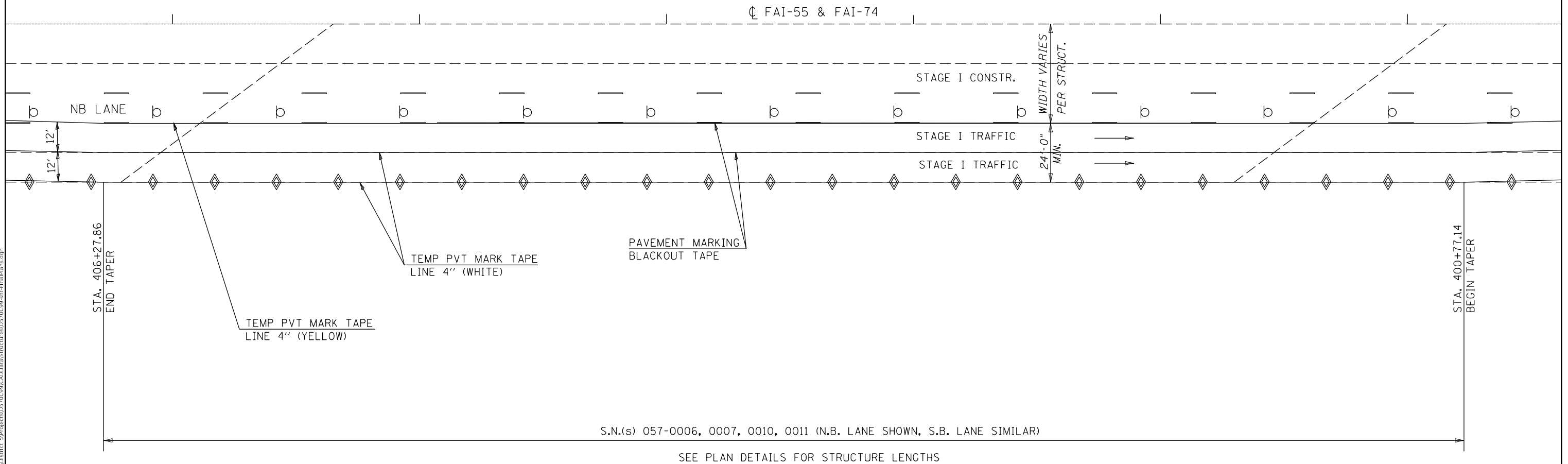
- TYPE II BARRICADES OR DRUMS WITH MONO-DIRECTIONAL STEADY BURNING LIGHTS AT 50' CTS. (COST INCLUDED WITH TC&P (SPL))
- ◇ TYPE B OR C MONODIRECTIONAL REFLECTORS AT 25' CTS. (COST INCLUDED WITH TC&P (SPL))



NOTE:

TRAFFIC CONTROL AND PROTECTION (SPECIAL) REQUIRED FOR STAGE I
 USE STANDARD 701406 WITH DRIVING LANE CLOSURE TO BEGIN SET-UP
 OF TRAFFIC CONTROL AND PROTECTION (SPECIAL). WHEN ALL WORK IS
 COMPLETED IN DRIVING LANE AND SHOULDER, TRANSITION TO STANDARD
 701446 TO COMPLETE SET-UP OF TRAFFIC CONTROL AND PROTECTION
 (SPECIAL). CLOSURE OF CENTER LANE SHOULD BE COMPLETED AS QUICKLY
 AS POSSIBLE AND DONE DURING NON-PEAK HOURS AS QUEUING WILL OCCUR
 RAPIDLY. THIS SHOULD BE COORDINATED WITH THE ENGINEER AND TRAFFIC
 CONTROL SUPERVISOR. REMOVAL OF TRAFFIC CONTROL AND PROTECTION
 (SPECIAL) SHOULD BE COMPLETED IN REVERSE.

TRAFFIC CONTROL AND PROTECTIONS STANDARD 701401 SHALL BE USED
 FOR STAGE II WORK.



S.N.(s) 057-0006, 0007, 0010, 0011 (N.B. LANE SHOWN, S.B. LANE SIMILAR)

SEE PLAN DETAILS FOR STRUCTURE LENGTHS

MODEL: I:\MODELS\MATF...
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USER NAME = shererjm	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 5/2/2018	DATE -	REVISED -

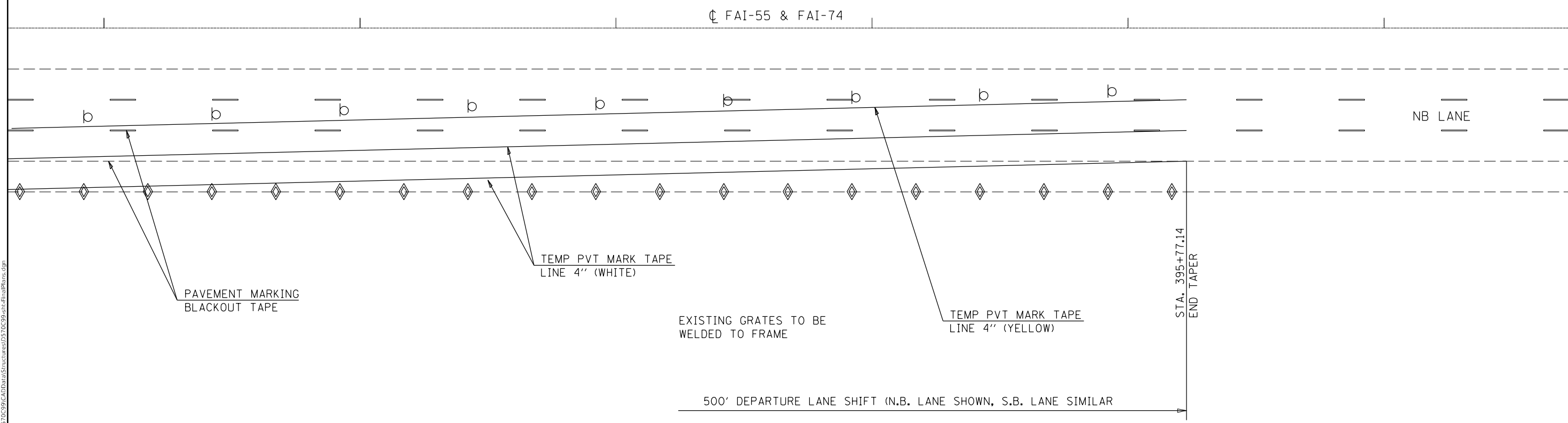
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

DETAIL OF TRAFFIC CONTROL & PROTECTION (SPECIAL)

SCALE: NONE SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55/74	(MBPM2018)BJR	MCLEAN	25	24
CONTRACT NO. 70C99				
ILLINOIS FED. AID PROJECT				

- ⊕ TYPE II BARRICADES OR DRUMS WITH MONO-DIRECTIONAL STEADY BURNING LIGHTS AT 50' CTS. (COST INCLUDED WITH TC&P (SPL))
- ◇ TYPE B OR C MONODIRECTIONAL REFLECTORS AT 25' CTS. (COST INCLUDED WITH TC&P (SPL))



MODEL: \\MODELMAME
 FILE NAME: \\FILEMAME
 PROJECT: \\PROJECT
 OFFICE: \\OFFICE
 DATE: 5/2/2018

PAVEMENT MARKING
BLACKOUT TAPE

TEMP PVT MARK TAPE
LINE 4" (WHITE)

EXISTING GRATES TO BE
WELDED TO FRAME

TEMP PVT MARK TAPE
LINE 4" (YELLOW)

STA. 395+77.14
END TAPER

500' DEPARTURE LANE SHIFT (N.B. LANE SHOWN, S.B. LANE SIMILAR)

USER NAME = shererjm	DESIGNED -	REVISED -
DRAWN -	REVISIED -	
PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 5/2/2018	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DETAIL OF TRAFFIC CONTROL & PROTECTION (SPECIAL)

SCALE: NONE SHEET 3 OF 3 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55/74	(MBPM2018)BJR	MCLEAN	25	25
CONTRACT NO. 70C99				
ILLINOIS FED. AID PROJECT				