

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
46	(50-2HB)BRR	LASALLE	48*	1
ILLINOIS CONTRACT NO. 66R21				

*48 + 3 = 51 TOTAL SHEETS

INDEX OF SHEETS

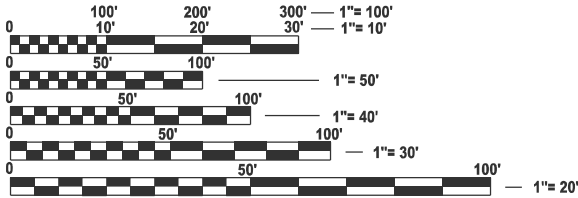
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PROPOSED
HIGHWAY PLANS

FAP ROUTE 46 (IL 251)
SECTION (50-2HB)BRR
PROJECT
BRIDGE REPAIR
LASALLE COUNTY

C-93-068-25

PROJECT LOCATION
STR. NO. 050-0077 &
050-0078 CARRYING
IL 251 NB/SB OVER
I-80 EB/WB

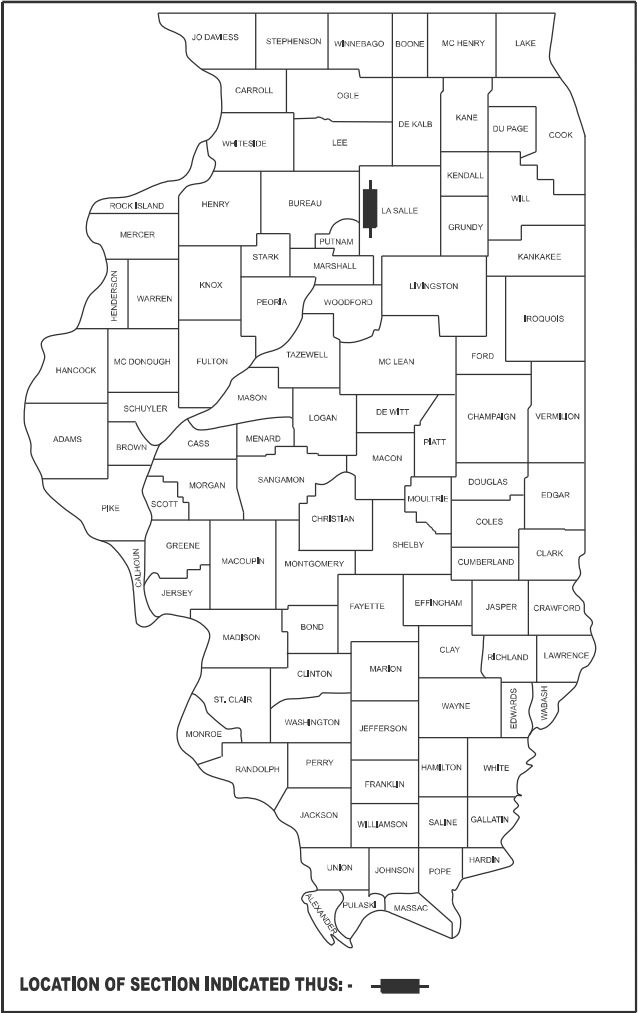


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD
ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT
CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS
ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER: JUNIOR SENAT, P.E.
UNIT CHIEF: RON WOODSHANK
DISTRICT 3 NO. (815) 434-6131
CONTRACT NO. 66R21

GROSS LENGTH = 287.92 FT. = 0.055 MILE
NET LENGTH = 287.92 FT. = 0.055 MILE



FUNCTIONAL CLASSIFICATION
OTHER PRINCIPAL ARTERIAL
F.A.P. 46 (IL ROUTE 251)
2023 ADT= 13100
P.V. 90.84% S.U. 2.29% M.U. 6.87%



10/14/2025
Expires 11/30/2027



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED October 16, 2025
Trisha Thompson REGIONAL ENGINEER

December 5, 2025
See Etc ENGINEER OF DESIGN AND ENVIRONMENT

December 5, 2025
Grady DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS

HIGHWAY STANDARDS

000001-09	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
482011-03	HMA SHLD. STRIPS/SHLDS. WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS
515001-04	NAME PLATE FOR BRIDGES
701400-12	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701406-13	LANE CLOSURE, FREEWAY/EXPRESSWAY, DAY OPERATIONS ONLY
701411-09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS ≥ 45 MPH
701426-09	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS ≥ 45 MPH
701428-01	TRAFFIC CONTROL SETUP AND REMOVAL FREEWAY/EXPRESSWAY
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701901-11	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

DISTRICT 3 STANDARDS

701-6	WIDTH RESTRICTION SIGNING DETAILS
720-12	TEMPORARY INFORMATION SIGNING - WITH WINTER SHUT DOWN
780-5	ADVANCE AND INTERSECTION LANE DIVIDER LINES
780-8	PAVEMENT MARKING
780-10	TYPICAL PLACEMENT OF ARROWS IN TURN LANES
782-6	LINEAR DELINEATOR PANELS FOR TEMPORARY CONCRETE BARRIER

GENERAL NOTES

THE ENGINEER WILL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS HMA LIFTS.

THE FINISHED EARTHWORK SHALL HAVE A VEGETATION SUSTAINING SOIL COVERING THE TOP FOUR INCHES (100 MILLIMETERS) IN AREAS TO BE SEEDED OR SODDED. THE VEGETATION SUSTAINING SOIL REQUIRED WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE CONTRACT.

ON EXISTING PAVEMENT WHICH MAY BE SUPERELEVATED, THE NEW HMA PAVEMENT SHALL BE BUILT WITH THE SAME SUPERELEVATION UNLESS NEW SUPERELEVATION RATES ARE GIVEN ON THE PLANS.

ALL ELEVATIONS REFERRING TO U.S.G.S. MEAN SEA LEVEL DATUM.

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

GRANULAR MATERIALS	2.05	TONS / CU YD
FULL LANE SEALANT	0.30	LB / SQ FT
HMA RESURFACING	112	LBS / SQ YD / IN
SHORT TERM PAVEMENT MARKINGS	10	FT / 100 FT OF APPLICATION

THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE PRESENCE OF DEPARTMENT-OWNED UNDERGROUND ELECTRICAL CABLE WITHIN THE LIMITS OF THE PROPOSED IMPROVEMENT. THE CONTRACTOR SHALL REQUEST THE ILLINOIS DEPARTMENT OF TRANSPORTATION IN OTTAWA (815-434-8417) TO LOCATE THE UNDERGROUND FACILITIES, PROVIDING A MINIMUM OF 72 HOURS NOTICE. THE DEPARTMENT IS NOT A MEMBER OF THE JOINT UTILITY LOCATING INFORMATION FOR EXCAVATORS (JULIE) SYSTEM.

ALL DAMAGE TO DEPARTMENT OWNED UNDERGROUND FACILITIES, CAUSED BY THE CONTRACTOR SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER AND AT NO EXPENSE TO THE DEPARTMENT. THIS SHALL INCLUDE ALL TEMPORARY REPAIRS REQUIRED TO KEEP THE FACILITY OPERATIONAL WHILE MATERIAL IS BEING OBTAINED TO MAKE PERMANENT REPAIRS. SPlicing OF ELECTRIC CABLE WILL NOT BE ALLOWED. ELECTRIC CABLE SHALL BE REPLACED FROM POLE TO POLE OR CONTROLLER.

ANY/ALL EXCAVATED EARTHEN MATERIAL SHOULD REMIAN ON SITE.

COMMITMENTS

THE ENGINEER SHALL RECORD THE ACTUAL DECK SLAB REPAIR LOCATIONS, PATCH SIZE AND QUANTITIES ON THE DECK SLAB REPAIR "AS-BUILT" PLAN DETAILS. WHEN RECORDED, THE ENGINEER SHALL FORWARD A COPY OF THE DECK SLAB REPAIR "AS-BUILT" PLAN DETAILS TO THE BRIDGE OFFICE IN A TIMELY MANNER. CONTACT PERSON IS JEFF BURKE, PHONE (217) 558-0282. IN ADDITION, THE ENGINEER SHALL FORWARD A COPY OF THE DECK SLAB REPAIR "AS-BUILT" PLAN DETAILS TO THE DISTRICT'S BRIDGE ENGINEER, CONTACT PERSON IS, LUIS CALDERON, PHONE (815) 434-8444.

HMA MIXTURE REQUIREMENT TABLE

IL ROUTE 251 NORTHBOUND			
LOCATIONS:	APPROACH PAVEMENT	BRIDGE DECK	SHOULDERS
MIXTURE USE(S):	POLY HMA SURFACE	POLY HMA SURFACE	HMA SURFACE
BINDER GRADE (PG):	SBS PG 70-28	SBS PG 70-28	PG 64-22
DESIGN AIR VOIDS:	4.0% @ N70	4.0% @ N70	4.0% @ N70
MIXTURE COMPOSITION: (MIXTURE GRADATION)	IL - 9.5FG	IL - 9.5FG	IL - 9.5FG
FRICTION AGGREGATE:	MIXTURE "D"	MIXTURE "D"	MIXTURE "D"
MIXTURE WEIGHT:	112.0 LB/SY/IN	112.0 LB/SY/IN	112.0 LB/SY/IN
QUALITY MANAGEMENT PROGRAM:	QC/QA	QC/QA	QC/QA
SUBLOT SIZE:	N/A	N/A	N/A
DENSITY TEST METHOD:	CORES / NUCLEAR	CORES / NUCLEAR	CORES / NUCLEAR

IL ROUTE 251 SOUTHBOUND					
LOCATIONS:	APPROACH PAVEMENT		BRIDGE DECK		SHOULDERS
MIXTURE USE(S):	POLY HMA BINDER	POLY HMA SURFACE	POLY HMA BINDER	POLY HMA SURFACE	HMA SURFACE
BINDER GRADE (PG):	SBS PG 70-28	SBS PG 70-28	SBS PG 70-28	SBS PG 70-28	PG 64-22
DESIGN AIR VOIDS:	4.0% @ N50	4.0% @ N70	4.0% @ N50	4.0% @ N70	4.0% @ N70
MIXTURE COMPOSITION: (MIXTURE GRADATION)	IL - 4.75	IL - 9.5	IL - 4.75	IL - 9.5	IL - 9.5
FRICTION AGGREGATE:	N/A	MIXTURE "D"	N/A	MIXTURE "D"	MIXTURE "D"
MIXTURE WEIGHT:	112.0 LB/SY/IN	112.0 LB/SY/IN	112.0 LB/SY/IN	112.0 LB/SY/IN	112.0 LB/SY/IN
QUALITY MANAGEMENT PROGRAM:	QC/QA	QC/QA	QC/QA	QC/QA	QC/QA
SUBLOT SIZE:	N/A	N/A	N/A	N/A	N/A
DENSITY TEST METHOD:	CORES / NUCLEAR	CORES / NUCLEAR	CORES / NUCLEAR	CORES / NUCLEAR	CORES / NUCLEAR

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DISTRICT 3
AS-BUILT INFORMATION

SUPERVISING CONSTRUCTION FIELD ENGINEER

RESIDENT ENGINEER / TECHNICIAN

START & END DATES
OF CONSTRUCTION:

INSPECTORS:



USER NAME = memidon	DESIGNED - MJR	REVISED -
	DRAWN - MLA	REVISED -
	CHECKED - ERO	REVISED -
PLOT DATE = 10/13/2025	DATE - 10/13/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HIGHWAY STANDARDS, GENERAL NOTES, AND COMMITMENTS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
46	(50-2HB)BRR	LASALLE	48	2
CONTRACT NO. 66R21				
ILLINOIS FED. AID PROJECT				

MODEL: Default
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				CONSTRUCTION CODE	
				CONTRACT MAINTENANCE 100% STATE	
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	BRIDGE	BRIDGE
				0047	0047
				S.N. 050-0077	S.N. 050-0078
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	312		312
40600295	POLYMERIZED BITUMINOUS MATERIALS (TACK COAT)	POUND	326	189	137
40603200	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50	TON	12	12	
40604112	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5FG, MIX "D", N70	TON	82		82
40604162	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70	TON	82	82	
42001300	PROTECTIVE COAT	SQ YD	80.8	40.4	40.4
48203003	HOT-MIX ASPHALT SHOULDERS, 1 1/2"	SQ YD	65		65
48203006	HOT-MIX ASPHALT SHOULDERS, 2 1/4"	SQ YD	66	66	
50102400	CONCRETE REMOVAL	CU YD	31.4	15.7	15.7
50157300	PROTECTIVE SHIELD	SQ YD	776	388	388
50300255	CONCRETE SUPERSTRUCTURE	CU YD	31.6	15.8	15.8
50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	4080	2040	2040
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	4500	2250	2250
50800515	BAR SPLICERS	EACH	80	40	40

* SPECIAL PROVISION
** SPECIALTY ITEM

	USER NAME = mamidon	DESIGNED - MJR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - MLA	REVISED -					46	(50-2HB)BRR	LASALLE	48	3
		CHECKED - ERO	REVISED -					CONTRACT NO. 66R21				
	PLOT DATE = 10/13/2025	DATE - 10/13/2025	REVISED -		SCALE: 1" = 50'	SHEET 1	OF 5 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		

MODEL: Default
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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	BRIDGE	BRIDGE
				0047	0047
				S.N. 050-0077	S.N. 050-0078
52000110	PREFORMED JOINT STRIP SEAL	FOOT	284	142	142
52100020	ELASTOMERIC BEARING ASSEMBLY, TYPE II	EACH	44	22	22
52100520	ANCHOR BOLTS, 1"	EACH	176	88	88
* 53004556	HOT-MIX ASPHALT SURFACE REMOVAL (DECK)	SQ YD	602	301	301
* 53016000	DECK SLAB REPAIR (PARTIAL)	SQ YD	20	10	10
* 53016001	DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQ YD	2	1	1
* 53016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	10	5	5
* 53212754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	763	328	435
* 58100210	FULL LANE SEALANT WATERPROOFING SYSTEM	SQ YD	693	693	0
58700300	CONCRETE SEALER	SQ FT	2824	1412	1412
59000200	EPOXY CRACK INJECTION	FOOT	114	71	43
67100100	MOBILIZATION	L SUM	1	0.5	0.5
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	2	1	1
70100700	TRAFFIC CONTROL AND PROTECTION, STANDARD 701406	L SUM	1	0.5	0.5
** 70107007	PAVEMENT MARKING BLACKOUT TAPE, 7"	FOOT	1953	975	978

* SPECIAL PROVISION

** SPECIALTY ITEM



USER NAME	=	mamidon
DESIGNED	-	MJR
DRAWN	-	MLA
CHECKED	-	ERO
PLOT DATE	=	10/13/2025

REVISED	-	
REVISED	-	
REVISED	-	
REVISED	-	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: 1" = 50'	SHEET 2	OF 5	SHEETS	STA.	TO STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
46	(50-2HB)BRR	LASALLE	48	4
CONTRACT NO. 66R21				
ILLINOIS FED. AID PROJECT				

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	BRIDGE	BRIDGE
				0047	0047
				S.N. 050-0077	S.N. 050-0078
* 70107025	CHANGEABLE MESSAGE SIGN	CAL DA	60	30	30
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	1568	767	801
70307120	TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE	FOOT	4696	2297	2399
70400100	TEMPORARY CONCRETE BARRIER	FOOT	1000	500	500
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	950	475	475
70600251	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	1	1
70600352	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	1	1
** 78004600	PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - LETTERS AND SYMBOLS	SQ FT	96	48	48
** 78004640	PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - LINE 8"	FOOT	661	322	339
** 78004645	PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - LINE 9"	FOOT	610	306	304
** 78004720	PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - LINE 24"	FOOT	81	43	38
* 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	10177	5107	5070
** 78011000	GROOVING FOR RECESSED PAVEMENT MARKING, LETTERS AND SYMBOLS	SQ FT	96	48	48
** 78011025	GROOVING FOR RECESSED PAVEMENT MARKING 5"	FOOT	5089	2554	2535
* SPECIAL PROVISION					
** SPECIALTY ITEM					

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				CONTRACT MAINTENANCE 100% STATE	
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	BRIDGE	BRIDGE
				0047	0047
				S.N. 050-0077	S.N. 050-0078
**	78011045	GROOVING FOR RECESSED PAVEMENT MARKING 9"	FOOT	661	322 339
**	78011050	GROOVING FOR RECESSED PAVEMENT MARKING 10"	FOOT	610	306 304
**	78011125	GROOVING FOR RECESSED PAVEMENT MARKING 25"	FOOT	81	43 38
*	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	8	4 4
*	78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	2540	1273 1267
*	X0325748	ACRYLIC COATING	SQ YD	184.9	96.2 88.7
*	X0325749	FIBER WRAP	SQ FT	1087	573 514
*	X5091742	REMOVE AND RE-ERECT EXISTING BRIDGE RAIL	FOOT	298	149 149
*	X7010228	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601 (SPECIAL)	L SUM	1	0.5 0.5
*	X7200061	TEMPORARY INFORMATION SIGNING	SQ FT	60	30 30
*	X7200201	WIDTH RESTRICTION SIGNING	L SUM	1	0.5 0.5
*	X8110170	REPAIR EXISTING CONDUIT ATTACHED TO STRUCTURE	L SUM	1	1
*	Z0001800	APPROACH SLAB REPAIR (PARTIAL DEPTH)	SQ YD	25	13 12
*	Z0001899	JACK AND REMOVE EXISTING BEARINGS	EACH	88	44 44
* SPECIAL PROVISION					
** SPECIALTY ITEM					

REV. 12/11/25 REV. 11/10/25

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	BRIDGE	BRIDGE
				0047	0047
				S.N. 050-0077	S.N. 050-0078
* Z0004542	HOT-MIX ASPHALT REMOVAL (SPECIAL)	SQ YD	1386	693	693
* Z0005900	BRIDGE CURB OR HUBGUARD REPAIR	FOOT	245	138	107
* Z0043800	PRECAST PRESTRESSED CONCRETE I-BEAM REPAIR	SQ FT	363	187	176

* SPECIAL PROVISION
** SPECIALTY ITEM

F.A.P. RTE. 46

SECTION (50-2HB)BRR

COUNTY LASALLE

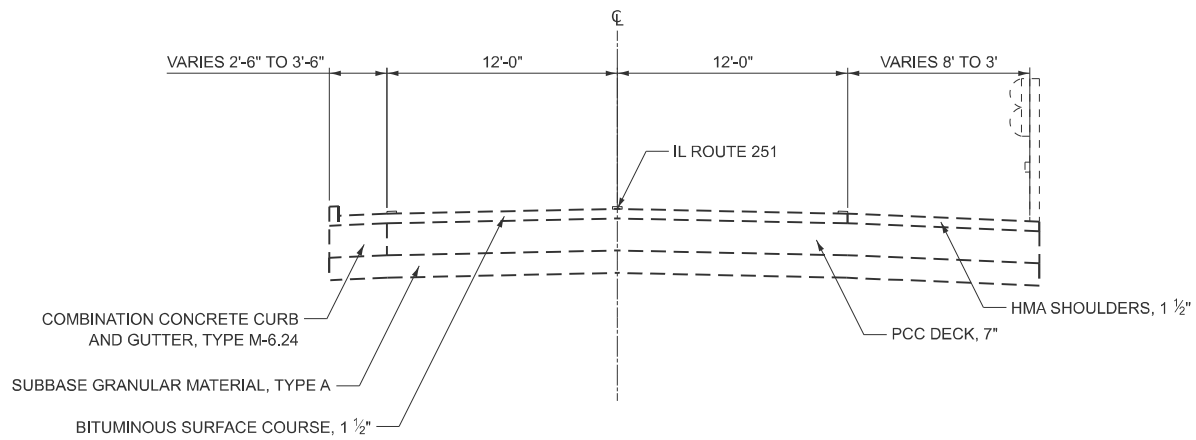
TOTAL SHEETS 48

SHEET NO. 7

CONTRACT NO. 66R21

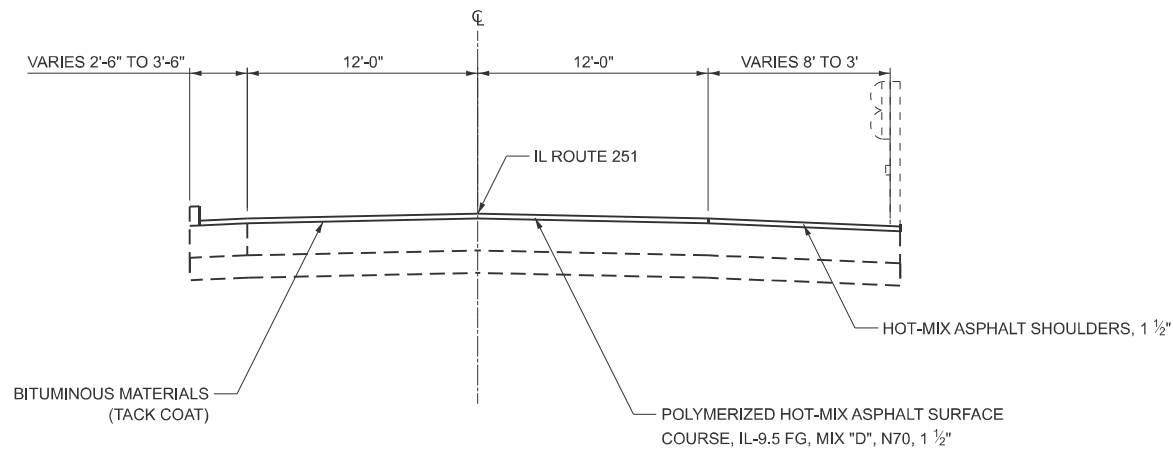
ILLINOIS FED. AID PROJECT

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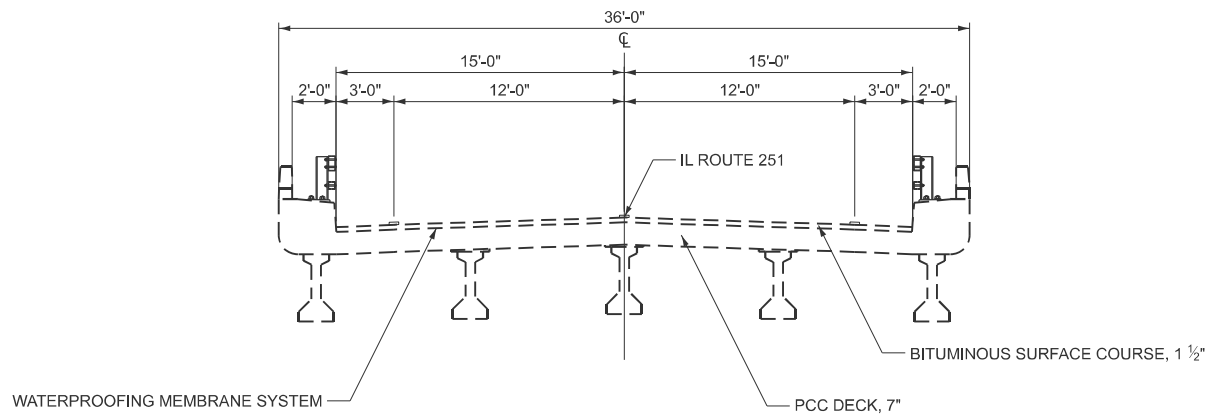
EXISTING TYPICAL SECTION

STA. 46+82.74 TO STA. 47+22.74
STA. 49+30.67 TO STA. 49+70.67



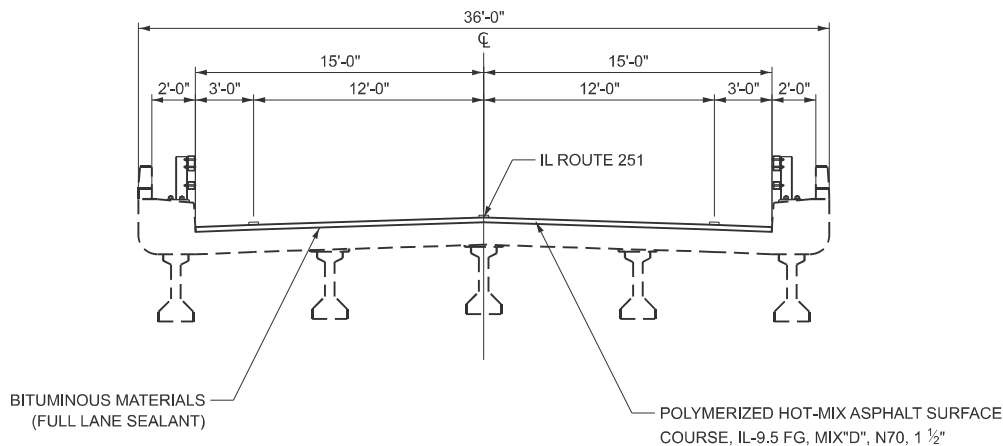
PROPOSED TYPICAL SECTION

STA. 46+82.74 TO STA. 47+22.74
STA. 49+30.67 TO STA. 49+70.67



EXISTING TYPICAL SECTION

STA. 47+22.87 TO STA. 49+30.54



PROPOSED TYPICAL SECTION

STA. 47+22.87 TO STA. 49+30.54



USER NAME = mamidon	DESIGNED - MJR	REVISED -
	DRAWN - MLA	REVISED -
	CHECKED - ERO	REVISED -
PLOT DATE = 10/13/2025	DATE - 10/13/2025	REVISED -

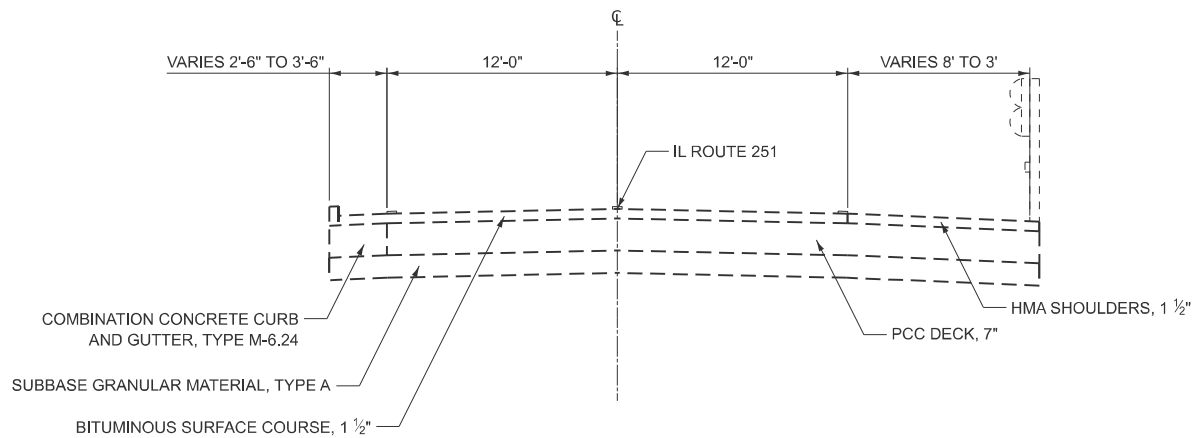
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 251 N.B. (S.N. 050-0078)
TYPICAL SECTIONS

SCALE: 1" = 50' SHEET 1 OF 2 SHEETS STA. TO STA.

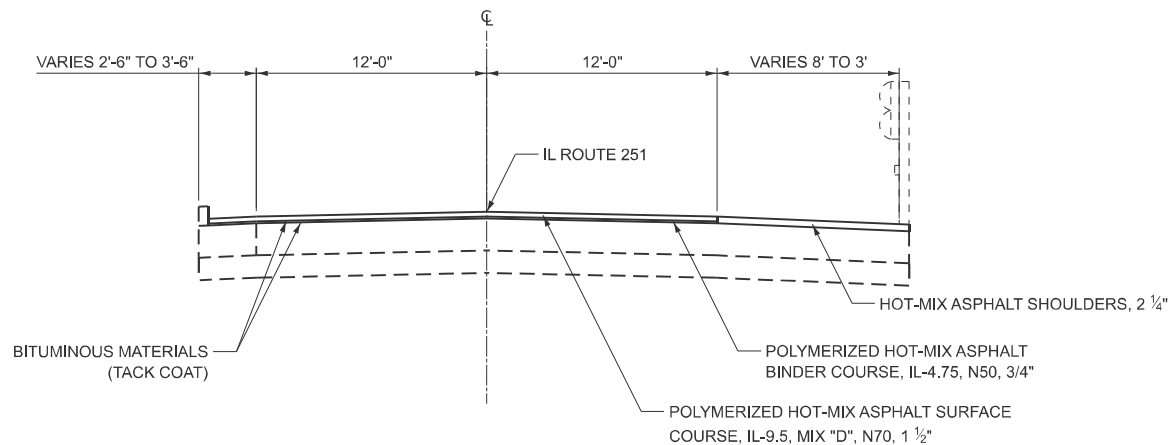
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
46	(50-2HB)BRR	LASALLE	48	8
CONTRACT NO. 66R21				
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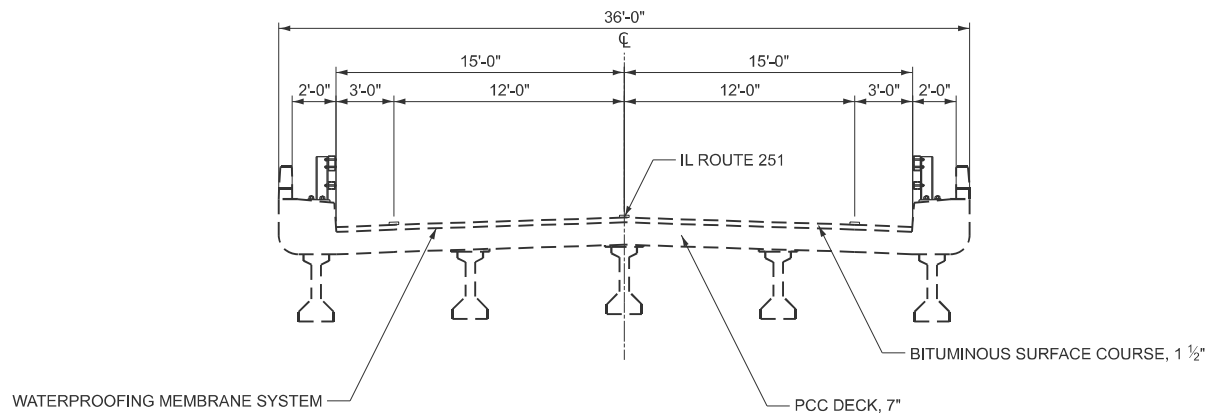
EXISTING TYPICAL SECTION

STA. 46+83.38 TO STA. 47+23.38
STA. 49+31.30 TO STA. 49+71.30



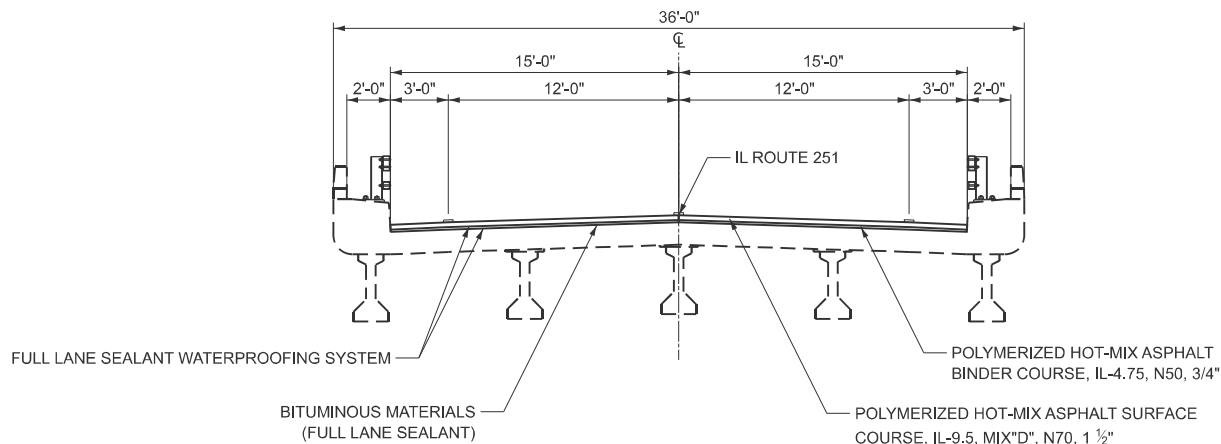
PROPOSED TYPICAL SECTION

STA. 46+83.38 TO STA. 47+23.38
STA. 49+31.30 TO STA. 49+71.30



EXISTING TYPICAL SECTION

STA. 47+23.50 TO STA. 49+31.18



PROPOSED TYPICAL SECTION

STA. 47+23.50 TO STA. 49+31.18



USER NAME = mamidon	DESIGNED - MJR	REVISED -
	DRAWN - MLA	REVISED -
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PLOT DATE = 10/13/2025	DATE - 10/13/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 251 S.B. (S.N. 050-0077)
TYPICAL SECTIONS

SCALE: 1" = 50' SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
46	(50-2HB)BRR	LASALLE	48	9
CONTRACT NO. 66R21				
ILLINOIS FED. AID PROJECT				

MODEL: Default
FILE NAME: P:\2024\ME24020_PTB 205-023 D3 PH II K&T\ME24020.11.PTB 205-023.WO 11_IL 2510+CADD\CAD_Sheets\0366R21-Title.dgn

PAVING SCHEDULE													
STATION	TO	STATION	OFFSET	BITUMINOUS MATERIALS (FULL LANE SEALANT)	BITUMINOUS MATERIALS (TACK COAT)	PLOYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL- 4.75, N50	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL- 9.5FG, MIX "D", N70	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70	HOT-MIX ASPHALT SHOULDERS, 1 1/2"	HOT-MIX ASPHALT SHOULDERS, 2 1/4"	FULL LANE SEALANT WATERPROOFING SYSTEM	HOT-MIX ASPHALT SURFACE REMOVAL (DECK)	HOT-MIX ASPHALT REMOVAL (SPECIAL)
				LB	LB	TON	TON	TON	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD
46+82.74	TO	47+22.74	LT		72		11		40			158	
46+83.38	TO	47+23.38	RT		91	6		11		25		143	
47+22.87	TO	49+30.54	LT	312			60						693
47+23.50	TO	49+31.18	RT					60			693		693
49+30.67	TO	49+70.67	LT		65		11		25			143	
49+31.30	TO	49+71.30	RT		98	6		11		41		158	
TOTAL				312	326	12	82	82	65	66	693	602	1386

TEMPORARY CONCRETE BARRIER SCHEDULE							
STATION	TO	STATION	OFFSET	TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER	IMPACT ATTENUATORS, TEMPORARY(NON- REDIRECTIVE, NARROW), TEST LEVEL 3	IMPACT ATTENUATORS, RELOCATE(NON- REDIRECTIVE, NARROW), TEST LEVEL 3
				FOOT	FOOT	EACH	EACH
44+78.25	TO	49+71.30	RT	500		1	
44+96.49	TO	49+71.30	RT		475		1
46+82.71	TO	51+75.80	LT	500		1	
46+82.76	TO	51+57.56	LT		475		1
47+22.87	TO	49+30.54	LT				
47+23.51	TO	49+31.18	RT				
TOTAL				1000	950	2	2



USER NAME = mamidon	DESIGNED - MJR	REVISED -
	DRAWN - MLA	REVISED -
	CHECKED - ERO	REVISED -
PLOT DATE = 10/13/2025	DATE - 10/13/2025	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES			
SCALE: 1" = 50'	SHEET 1	OF 2 SHEETS	STA. TO STA.

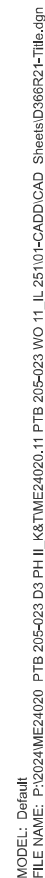
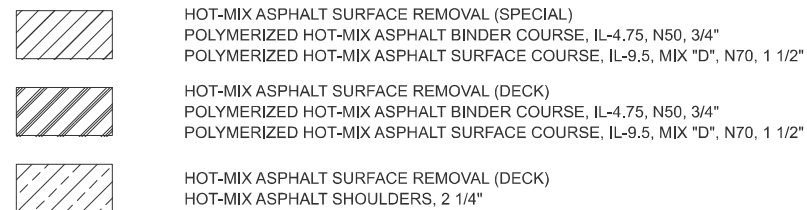
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
46	(50-2HB)BRR	LASALLE	48	10
CONTRACT NO. 66R21				
ILLINOIS FED. AID PROJECT				

MODEL: Default
FILE NAME: P:\2024\ME24020_PTB 205-023 D3 PH II_K&T\ME24020.11.PTB 205-023.WO 11_IL 25101-CADD\CAD_Sheets\0366R21-Title.dgn

PAVEMENT MARKING SCHEDULE																		
				PAVEMENT MARKING BLACKOUT TAPE, 7"	SHORT TERM PAVEMENT MARKING REMOVAL	TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE	PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - LETTERS AND SYMBOLS	PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - LINE 8"	PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - LINE 9"	PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - LINE 24"	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	GROOVING FOR RECESSED PAVEMENT MARKING, LETTERS AND SYMBOLS"	GROOVING FOR RECESSED PAVEMENT MARKING 5"	GROOVING FOR RECESSED PAVEMENT MARKING 9"	GROOVING FOR RECESSED PAVEMENT MARKING 10"	GROOVING FOR RECESSED PAVEMENT MARKING 25"	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	PAVEMENT MARKING REMOVAL - WATER BLASTING
STATION	TO	STATION	OFFSET	FOOT	SQ FT	FOOT	SQ FT	FOOT	FOOT	FOOT	FOOT	SQ FT	FOOT	FOOT	FOOT	FOOT	EACH	SQ FT
42+54.68	TO	45+29.92	RT	69														
45+18.41	TO	49+71.45	RT	453														
46+82.59	TO	51+35.63	LT	453														
45+18.25	TO	49+71.16	RT	453														
46+82.88	TO	51+35.79	LT	453														
51+32.99	TO	54+20.57	LT	72														
41+58.47	TO	41+47.92	LT		24	70												
43+20.24	TO	49+71.34	RT		218	652												
45+18.41	TO	49+71.45	RT		151	453												
46+82.59	TO	51+35.63	RT		151	453												
46+82.70	TO	53+65.81	RT		228	684												
42+33.48	TO	49+71.27	LT		247	739												
45+18.25	TO	49+71.16	LT		151	453												
46+82.77	TO	54+20.57	LT		247	739												
46+82.88	TO	51+35.79	LT		151	453												
41+64.77	TO	42+54.86	LT/RT					35						35				24
41+88.95	TO	41+88.95	LT/RT					16						16				11
42+08.95	TO	44+58.95	LT				48	250				48		250				214
44+58.95	TO	46+08.95	LT					38						38				25
50+44.42	TO	52+19.42	RT					44						44				30
52+19.42	TO	54+79.42	RT				48	260				48		260				221
54+51.50	TO	54+89.42	LT/RT					18						18				12
42+09.95	TO	54+24.08	LT						304						304			175
42+54.86	TO	54+78.42	RT						306						306			177
42+08.95			LT							24						24		48
42+27.83			LT							14						14		28
54+41.63	TO	54+48.37	RT							19						19		37
54+79.42			RT							24						24		48
41+88.95	TO	54+85.60	LT								2594		1297					337
42+24.67	TO	54+54.08	LT/RT								4952		2476					810
41+73.95	TO	54+89.42	RT								2631		1316					343
46+82.73	TO	49+70.67	LT														4	
46+83.38	TO	49+71.30	RT														4	
TOTAL				1953	1568	4696	96	661	610	81	10177	96	5089	661	610	81	8	2540

NOTE: DISTRICT 3 CALLS FOR DOUBLE APPLICATION OF URETHANE PAVEMENT MARKING

	HOT-MIX ASPHALT SURFACE REMOVAL (SPECIAL) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5FG, MIX "D", N70, 1 1/2"
	HOT-MIX ASPHALT SURFACE REMOVAL (DECK) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5FG, MIX "D", N70, 1 1/2"
	HOT-MIX ASPHALT SURFACE REMOVAL (DECK) HOT-MIX ASPHALT SHOULDERS, 1 1/2"



USER NAME = mamidon	DESIGNED - MJR	REVISED -
	DRAWN - MLA	REVISED -
	CHECKED - ERO	REVISED -
PLOT DATE = 10/13/2025	DATE - 10/13/2025	REVISED -

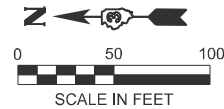
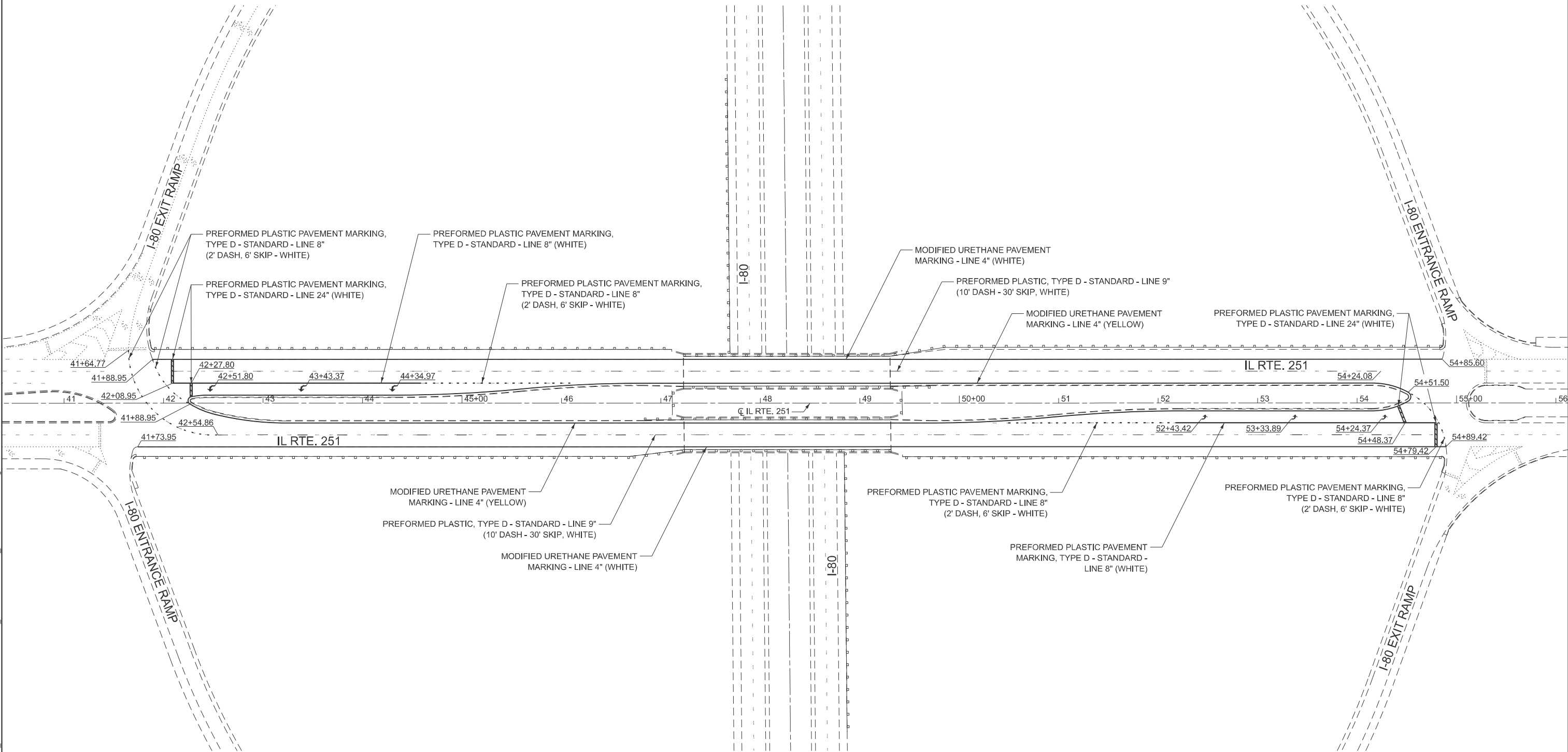
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**F.A.P. ROUTE 46 (IL ROUTE 251)
ROADWAY PLANS**

SCALE: 1" = 20'	SHEET 1	OF 1	SHEETS	STA. 46+82.74	TO STA. 49+71.30
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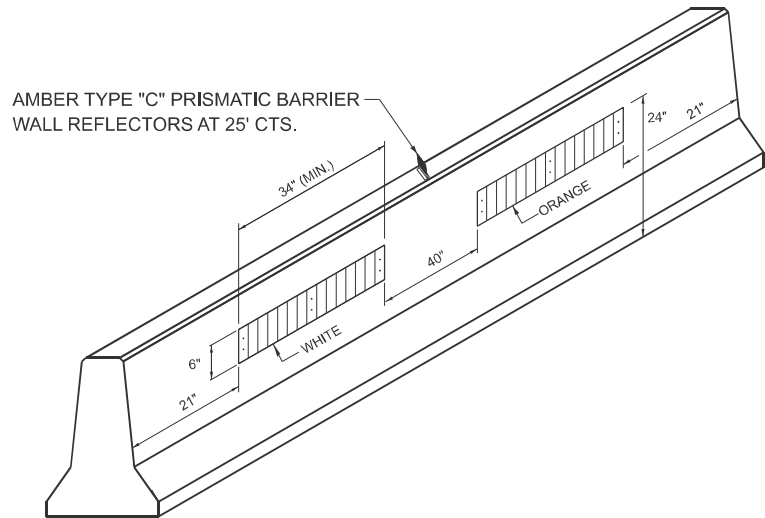
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
46	(50-2HB)BRR	LASALLE	48	12
		CONTRACT NO. 66R21		
		ILLINOIS FED. AID PROJECT		

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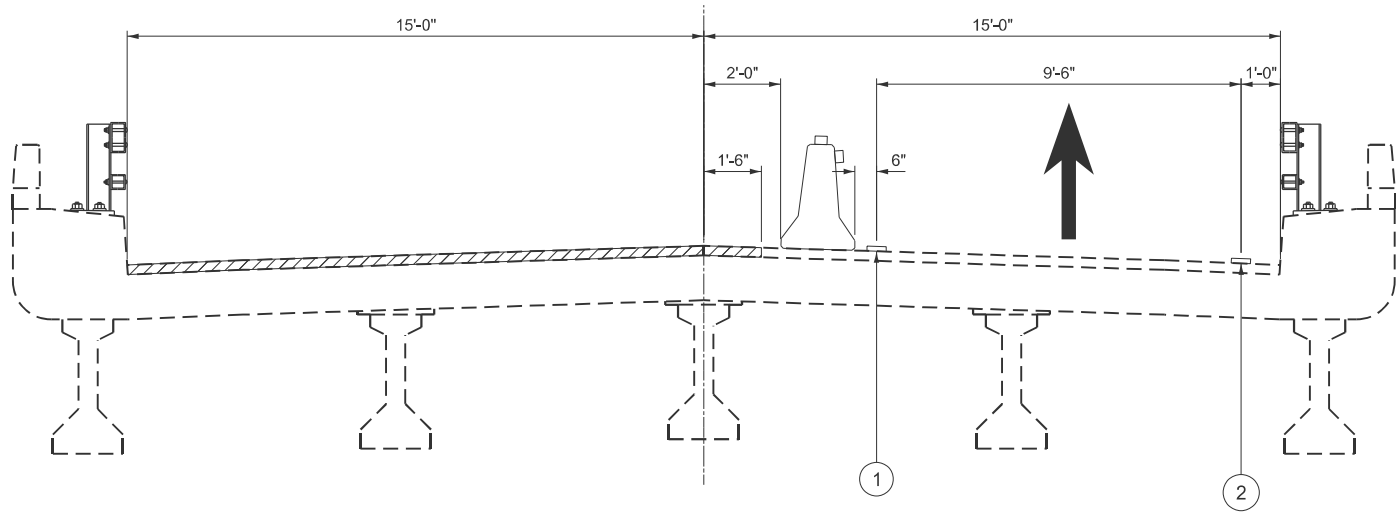


 www.millennia.pro	USER NAME = mamidon		DESIGNED - MJR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	F.A.P. ROUTE 45 (IL ROUTE 251) PAVEMENT MARKING PLAN					F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			DRAWN - MLA	REVISED -							46	(50-2HB)BRR	LASALLE	48	13
			CHECKED - ERO	REVISED -							CONTRACT NO. 66R21				
	PLOT DATE = 10/13/2025		DATE - 10/13/2025	REVISED -		SCALE: 1' = 50"	SHEET 1	OF 1 SHEETS	STA. 41+64.77	TO STA. 54+89.42	ILLINOIS FED. AID PROJECT				

MODEL: Default
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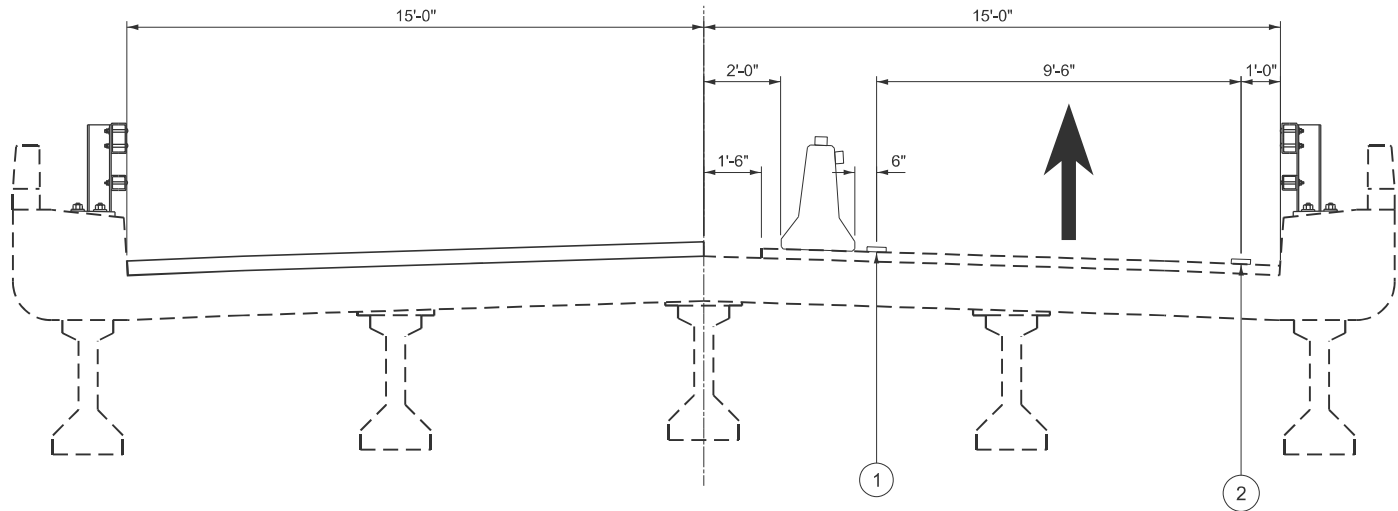


LINEAR DELINEATOR PANELS FOR TEMPORARY CONCRETE BARRIER



STAGE I REMOVAL TYPICAL SECTION

(S.N. 050-0077 & S.N. 050-0078,
IN DIRECTION OF TRAFFIC)



STAGE I CONSTRUCTION TYPICAL SECTION

(S.N. 050-0077 & S.N. 050-0078,
IN DIRECTION OF TRAFFIC)

LEGEND

- BITUMINOUS SURFACE & WATER PROOFING MEMBRANE SYSTEM REMOVAL
- PROPOSED HMA SURFACE & FULL LANE SEALANT (SEE TYPICAL SECTIONS)
- TEMPORARY CONCRETE BARRIER
- TEMPORARY PAVEMENT MARKING - LINE 4" (YELLOW)
- TEMPORARY PAVEMENT MARKING - LINE 4" (WHITE)



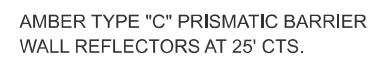
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	DRAWN - MLA	REVISED -
	CHECKED - ERO	REVISED -
PLOT DATE = 10/13/2025	DATE - 10/13/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC STAGING TYPICAL SECTIONS

SCALE: 1" = 50' SHEET 1 OF 2 SHEETS STA. TO STA.

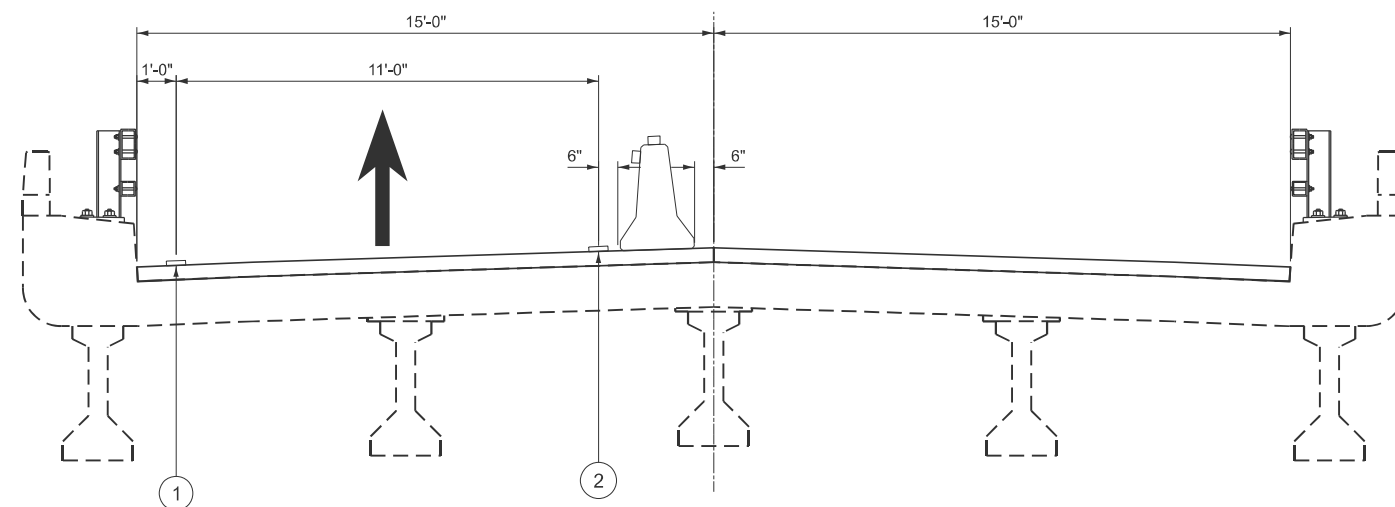
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
46	(50-2HB)BRR	LASALLE	48	14
CONTRACT NO. 66R21				
ILLINOIS FED. AID PROJECT				



Technical drawing of a bridge deck cross-section. The drawing shows a symmetrical structure with a central vertical axis. Key dimensions and features include:

- Overall Width:** 15'-0" on each side of the central axis, totaling 30'-0".
- Top Deck Width:** 11'-0" on each side of the central axis, totaling 22'-0".
- Top Deck Thickness:** 1'-0" on each side of the central axis, totaling 2'-0".
- Central Structure:** A central structure with a width of 6" on each side of the central axis, totaling 12".
- Bottom Deck:** A bottom deck with a width of 15'-0" on each side of the central axis, totaling 30'-0".
- Supports:** The bridge is supported by four piers, labeled 1, 2, 3, and 4 from left to right. Pier 2 is the central pier.
- Dimensions:** The drawing includes various dimension lines and labels: 15'-0", 11'-0", 1'-0", 6", and 15'-0".

(S.N. 050-0077 & S.N. 050-0078,
IN DIRECTION OF TRAFFIC)

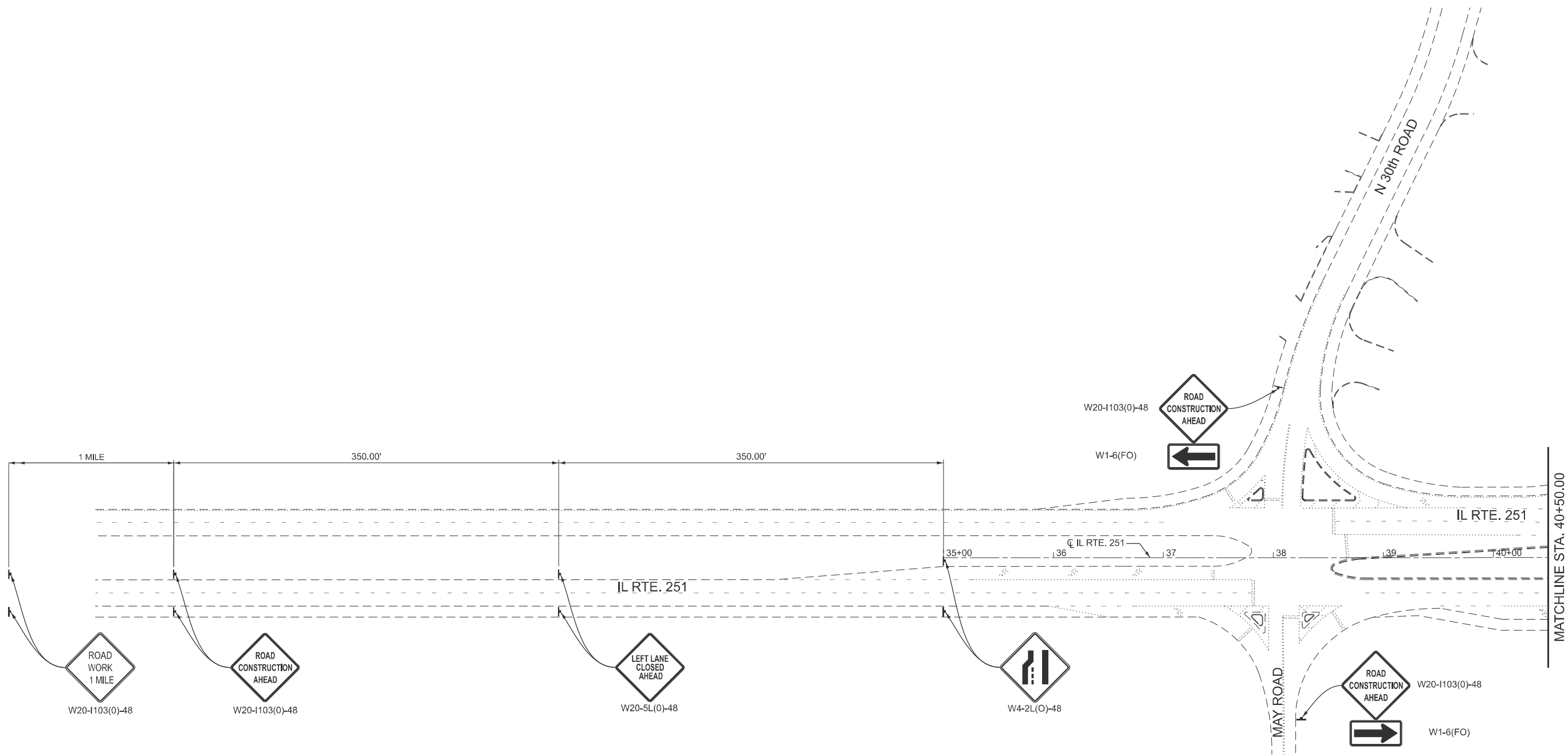


(S.N. 050-0077 & S.N. 050-0078,
IN DIRECTION OF TRAFFIC)

	BITUMINOUS SURFACE & WATER PROOFING MEMBRANE SYSTEM REMOVAL
	PROPOSED HMA SURFACE & FULL LANE SEALANT (SEE TYPICAL SECTIONS)
	TEMPORARY CONCRETE BARRIER
	TEMPORARY PAVEMENT MARKING - LINE 4" (YELLOW)
	TEMPORARY PAVEMENT MARKING - LINE 4" (WHITE)

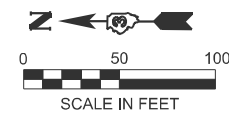
USER NAME = mamidon	DESIGNED - MJR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC STAGING TYPICAL SECTIONS				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN - MLA	REVISED -						46	(50-2HB)BRR	LASALLE	48	15
	CHECKED - ERO	REVISED -		CONTRACT NO. 66R21								
PLOT DATE = 10/13/2025	DATE - 10/13/2025	REVISED -		SCALE: 1" = 50'	SHEET 2	OF 2 SHEETS	STA.	TO STA.				

MODEL: Default
FILE NAME: P:\2024\ME24020_PTB 205-023 D3 PH II K&T\ME24020.11 PTB 205-023.WO 11 IL 2510+CADD\CAD_Sheets\0366R21-Title.dgn



SYMBOLS

- WORK AREA
- ARROW BOARD
- SIGN
- DRUM
- DIRECTIONAL INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATOR



USER NAME = mamidon	DESIGNED - MJR	REVISED -
	DRAWN - MLA	REVISED -
	CHECKED - ERO	REVISED -
PLOT DATE = 10/13/2025	DATE - 10/13/2025	REVISED -

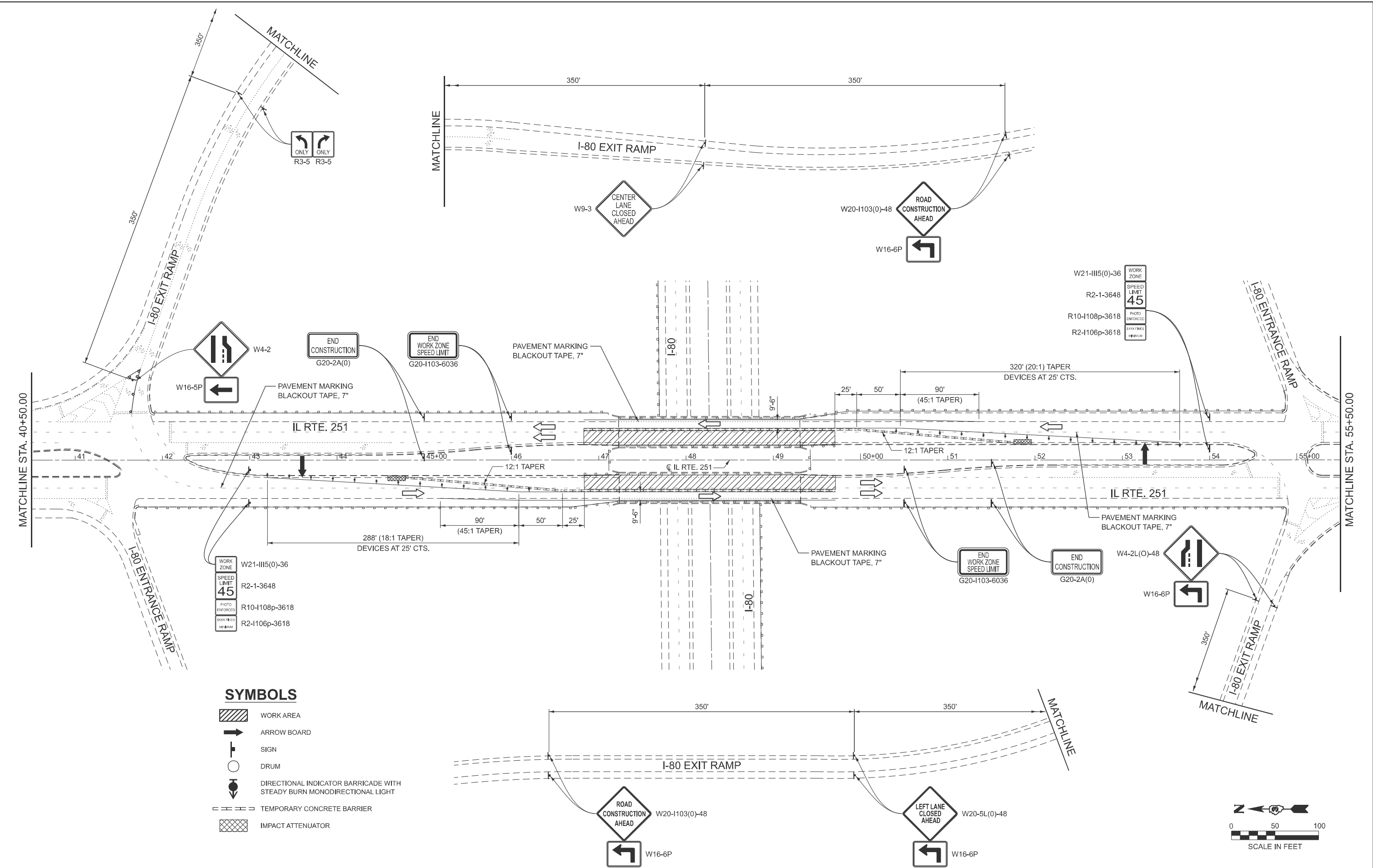
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. ROUTE 46 (IL ROUTE 251) - STAGE I
TRAFFIC CONTROL & PROTECTION STANDARD 701601 SPECIAL

SCALE: 1" = 50' SHEET 1 OF 6 SHEETS STA. 35+00.00 TO STA. 40+50.00

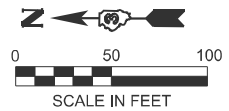
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
46	(50-2HB)BRR	LASALLE	48	16
CONTRACT NO. 66R21				
ILLINOIS FED. AID PROJECT				

MODEL: Default
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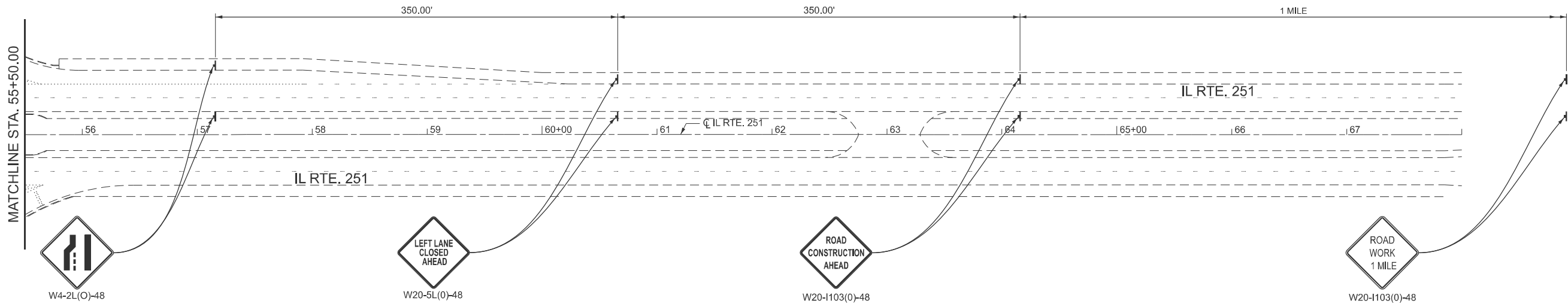
SYMBOLS

- WORK AREA
- ARROW BOARD
- SIGN
- DRUM
- DIRECTIONAL INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATOR



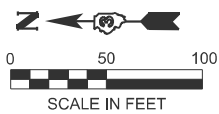
	USER NAME = mamidon		DESIGNED - MJR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	F.A.P. ROUTE 46 (IL ROUTE 251) - STAGE I TRAFFIC CONTROL & PROTECTION STANDARD 701601 SPECIAL			F.A.P. RTE. 46	SECTION (50-2HB)BRR	COUNTY LASALLE	TOTAL SHEETS 48	SHEET NO. 17
			DRAWN - MLA	REVISED -		SCALE: 1" = 50'			CONTRACT NO. 66R21				
	PLOT DATE = 10/13/2025		CHECKED - ERO	REVISED -		SHEET 2 OF 6 SHEETS			ILLINOIS FED. AID PROJECT				
			DATE - 10/13/2025	REVISED -		STA. 40+50.00 TO STA. 55+50.00							

MODEL: Default
FILE NAME: P:\2024\ME24020_PTB 205-023 D3 PH II K&T\ME24020.11 PTB 205-023.WO 11 IL 2510+CADD\CAD_Sheets\0366R21-Title.dgn



SYMBOLS

- WORK AREA
- ARROW BOARD
- SIGN
- DRUM
- DIRECTIONAL INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATOR



USER NAME = mamidon	DESIGNED - MJR	REVISED -
	DRAWN - MLA	REVISED -
	CHECKED - ERO	REVISED -
PLOT DATE = 10/13/2025	DATE - 10/13/2025	REVISED -

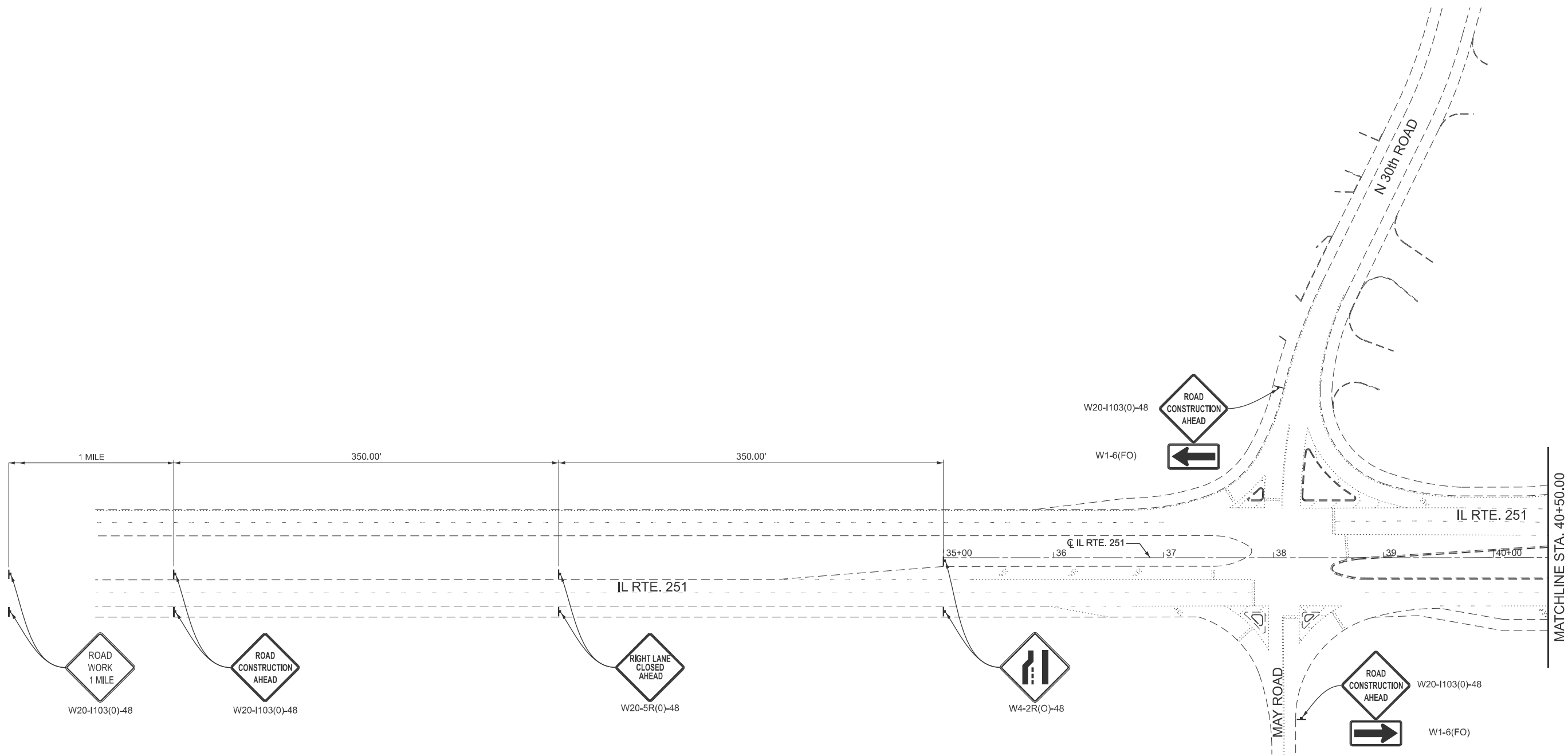
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. ROUTE 46 (IL ROUTE 251) - STAGE I
TRAFFIC CONTROL & PROTECTION STANDARD 701601 SPECIAL

SCALE: 1" = 50' SHEET 3 OF 6 SHEETS STA. 55+50.00 TO STA. 68+00.00

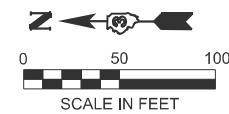
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
46	(50-2HB)BRR	LASALLE	48	18
CONTRACT NO. 66R21				
ILLINOIS FED. AID PROJECT				

MODEL: Default
FILE NAME: P:\2024\ME24020_PTB 205-023 D3 PH II K&T\ME24020.11 PTB 205-023.WO 11 IL 2510+CADD\CAD_Sheets\0366R21-Title.dgn



SYMBOLS

- WORK AREA
- ARROW BOARD
- SIGN
- DRUM
- DIRECTIONAL INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATOR



USER NAME = mamidon	DESIGNED - MJR	REVISED -
	DRAWN - MLA	REVISED -
	CHECKED - ERO	REVISED -
PLOT DATE = 10/13/2025	DATE - 10/13/2025	REVISED -

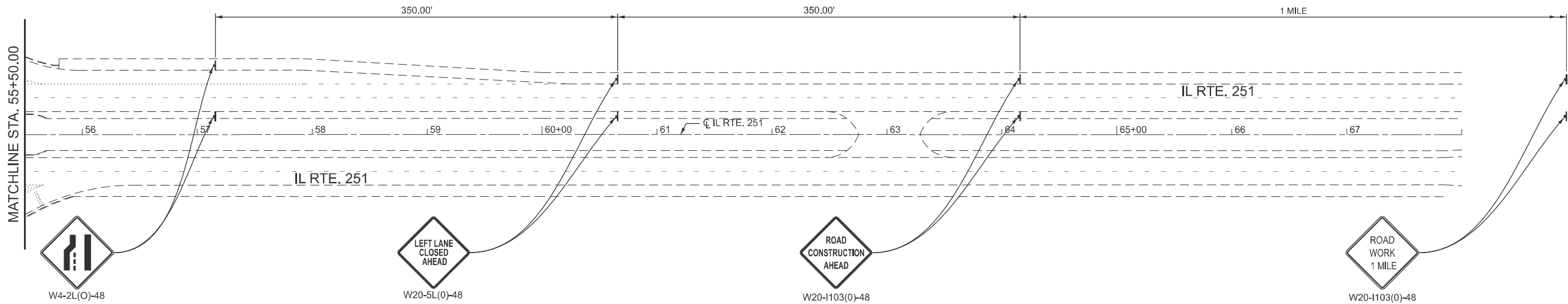
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. ROUTE 46 (IL ROUTE 251) - STAGE II
TRAFFIC CONTROL & PROTECTION STANDARD 701601 SPECIAL

SCALE: 1" = 50' SHEET 4 OF 6 SHEETS STA. 35+00.00 TO STA. 40+50.00

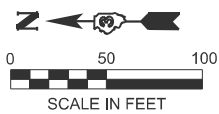
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
46	(50-2HB)BRR	LASALLE	48	19
CONTRACT NO. 66R21				
ILLINOIS FED. AID PROJECT				

MODEL: Default
FILE NAME: P:\2024\ME24020_PTB 205-023 D3 PH II K&T\ME24020.11 PTB 205-023 WO 11 IL 2510+CADD\CAD_Sheets\0366R21-Title.dgn



SYMBOLS

- WORK AREA
- ARROW BOARD
- SIGN
- DRUM
- DIRECTIONAL INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATOR



USER NAME = mamidon	DESIGNED - MJR	REVISED -
	DRAWN - MLA	REVISED -
	CHECKED - ERO	REVISED -
PLOT DATE = 10/13/2025	DATE - 10/13/2025	REVISED -

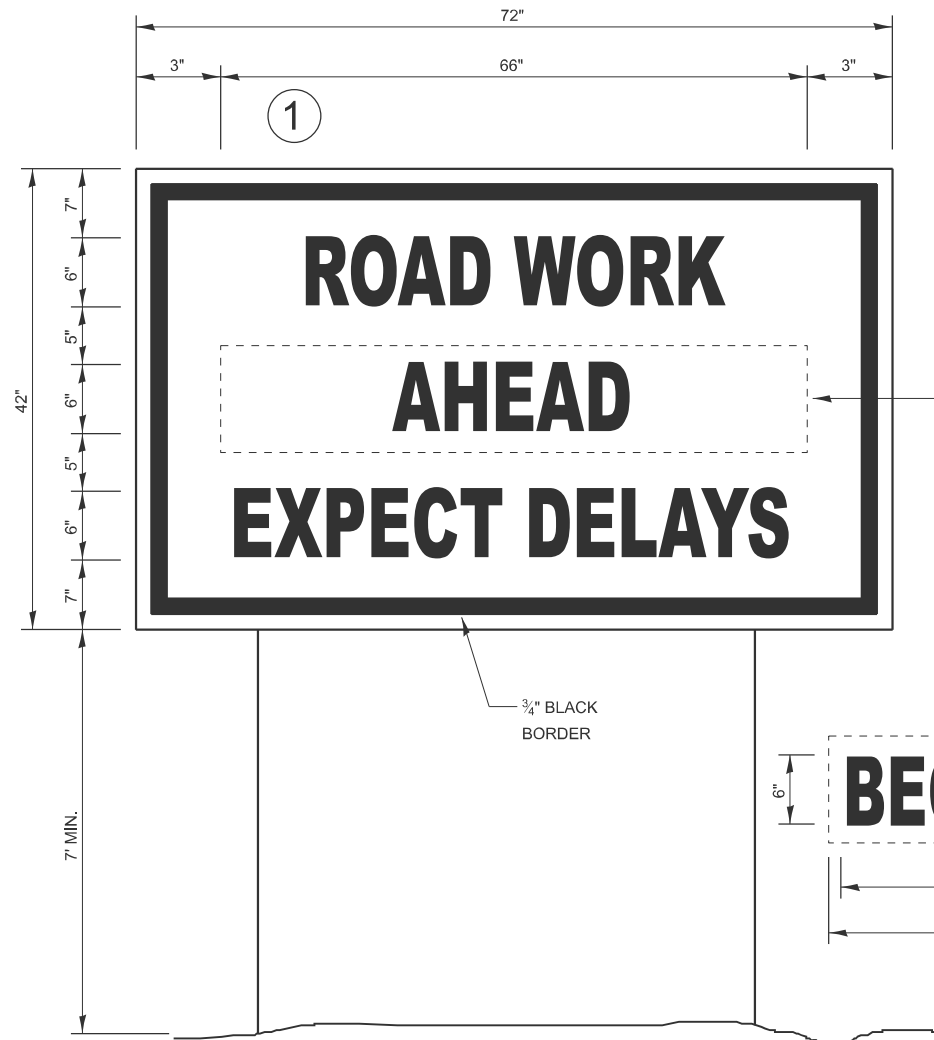
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. ROUTE 46 (IL ROUTE 251) - STAGE II
TRAFFIC CONTROL & PROTECTION STANDARD 701601 SPECIAL

SCALE: 1" = 50' SHEET 6 OF 6 SHEETS STA. 55+50.00 TO STA. 68+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
46	(50-2HB)BRR	LASALLE	48	21
CONTRACT NO. 66R21				
ILLINOIS FED. AID PROJECT				

MODEL: Default
FILE NAME: P:\2024\11E24020_PTB 205-423 D3 PH II & TWE24020.11 PTB 205-423 WO 11 IL 2510-CADD\CAD_Sheets\0366R21-Title.dgn



3/4" BLACK
BORDER

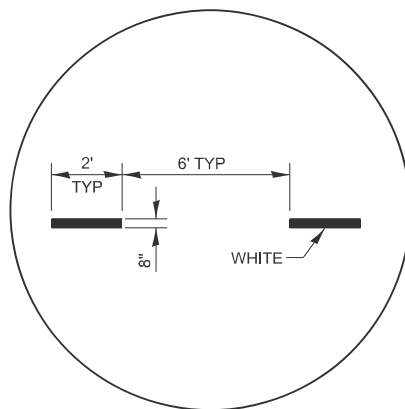
USE APPROPRIATE
MONTH AND DATE
FOR CONTRACT

BEGINS XX-XX-XX

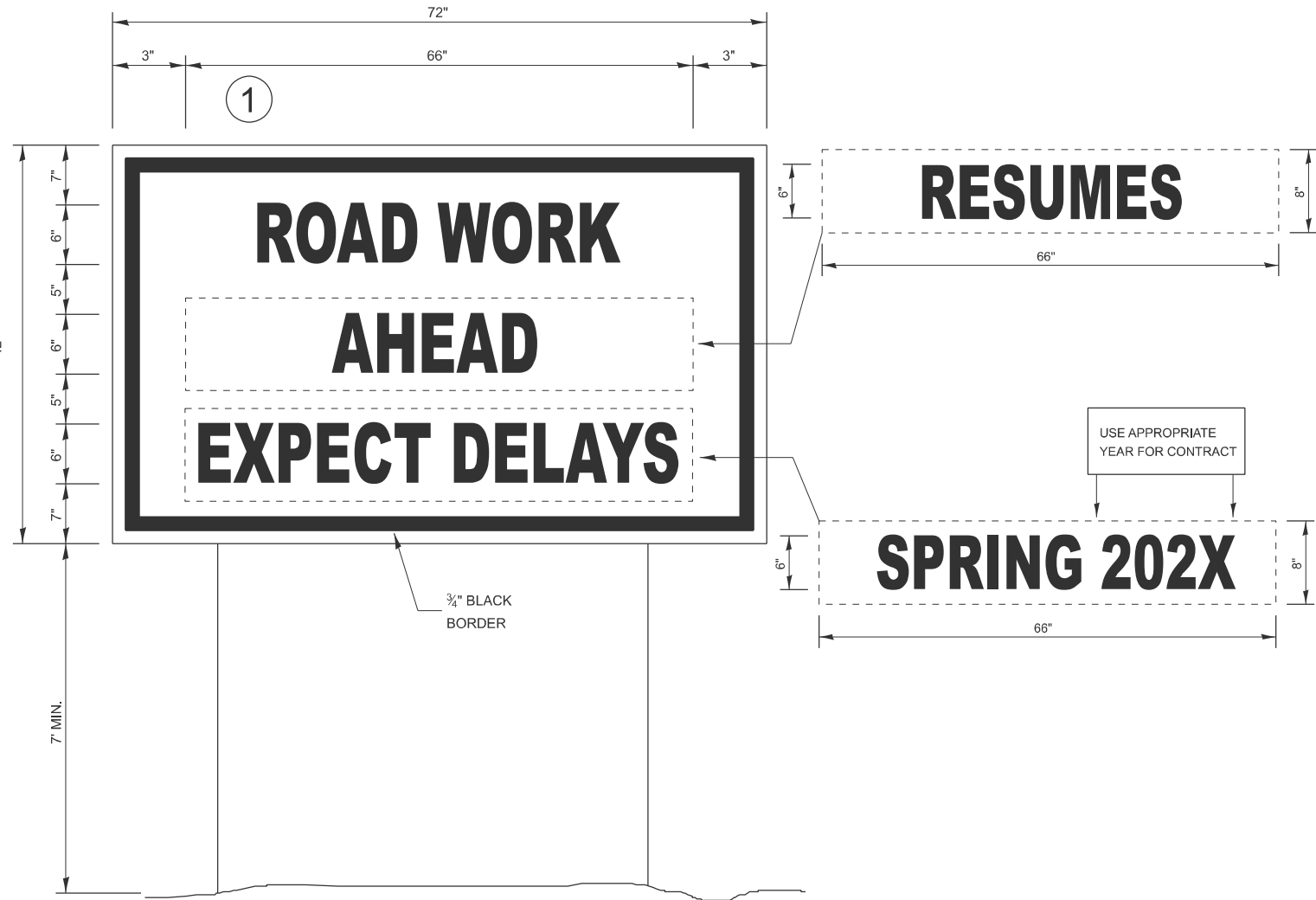
TEMPORARY INFORMATION SIGNING

NOTES:

- USE 6" D BLACK LETTERING ON FLUORESCENT ORANGE BACKGROUND.
- ERECT SIGNS AT LOCATIONS IN ADVANCE OF THE "ROAD CONSTRUCTION AHEAD" SIGNS AS DIRECTED BY THE ENGINEER.
- ERECT SIGN 1 WITH INSTALLED PANEL 2 A MINIMUM OF ONE WEEK PRIOR TO THE START OF THE LANE CLOSURE.
- REMOVE PANEL 2 ON THAT DATE.
- SEE SPECIAL PROVISION "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
- WILL BE PAID FOR PER SQ FT AS "TEMPORARY INFORMATION SIGNING". EACH SIGN = 21 SQ FT AND THE DATE PANEL 2 WILL NOT BE MEASURED SEPARATELY FOR PAYMENT.
- TEMPORARY INFORMATION SIGNING TO BE USED ON IL 251 ONLY.



ADVANCE AND INTERSECTION LANE DIVIDER LINES

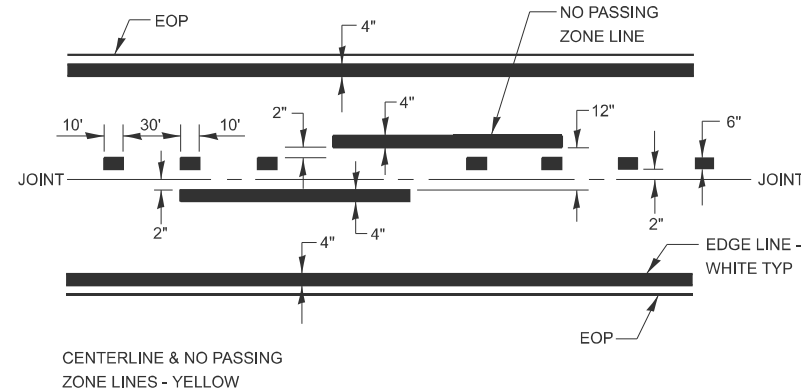


3/4" BLACK
BORDER

USE APPROPRIATE
YEAR FOR CONTRACT

RESUMES

WINTER SHUT DOWN SIGNING



PAVEMENT MARKING



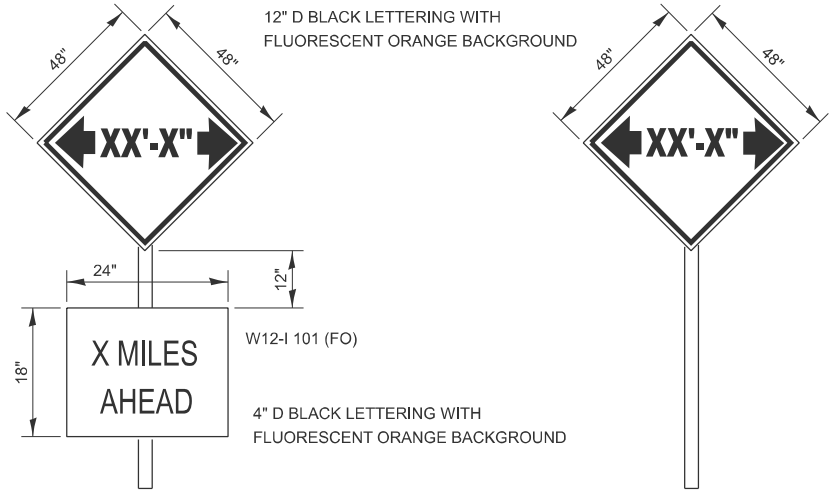
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	DRAWN - MLA	REVISED -
	CHECKED - ERO	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MISCELLANEOUS DETAILS

SCALE: 1" = 50' SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
46	(50-2HB)BRR	LASALLE	48	22
CONTRACT NO. 66R21				
ILLINOIS FED. AID PROJECT				



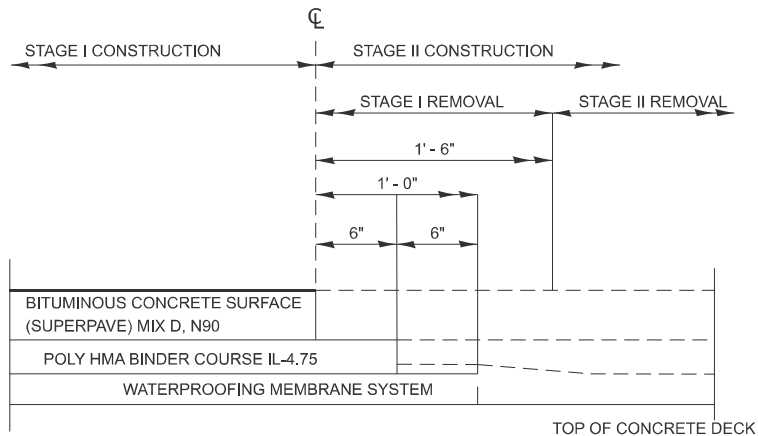
TO BE POST MOUNTED AS SHOWN ELSEWHERE IN THE PLANS.

COST OF SUPPLYING, INSTALLING, MAINTAINING AND REMOVING WIDTH RESTRICTION SIGNS SHALL BE INCLUDED IN THE COST OF THE TRAFFIC CONTROL AND PROTECTION PAY ITEMS.

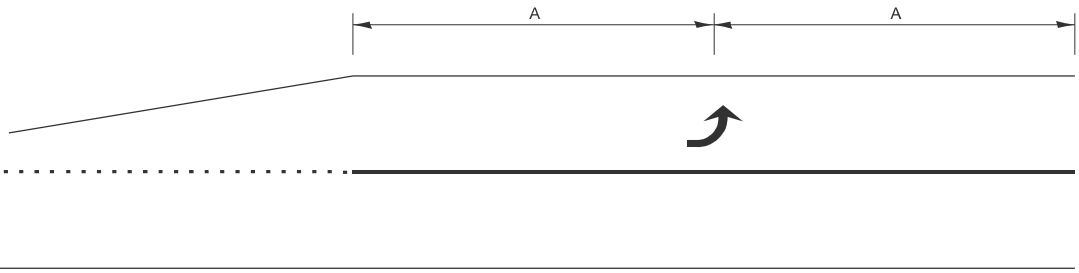
WIDTH RESTRICTION SIGNING DETAILS

MAX WIDTH		MILES AHEAD	SIGN LOCATION
STAGE I	STAGE II		
9'-6"	11'-0"	500'	On EB I-80 Exit Ramp, 500' west of the Intersection off ramp for IL 251
9'-6"	11'-0"	500'	On WB I-80 Exit Ramp, 500' east of the Intersection off ramp for IL 251
9'-6"	11'-0"	2.0	On EB I-80, 500' west of the EXIT 75 off ramp for IL 251
9'-6"	11'-0"	2.0	On WB I-80, 500' east of the EXIT 75 off ramp for IL 251
9'-6"	11'-0"	500'	On NB IL 251, 500' south of the Intersection of IL 251 & I-80
9'-6"	11'-0"	500'	On SB IL 251, 500' north of the Intersection of IL 251 & I-80

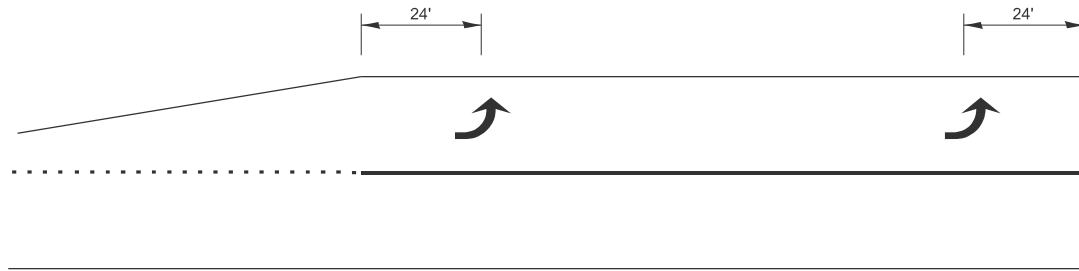
NOTE: ADD DIRECTIONAL ARROWS, W16-5P, TO THE WIDTH RESTIRCTION SIGNS ON EXIT RAMPS.



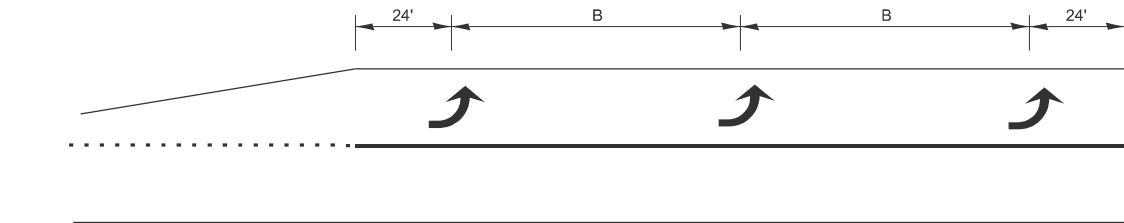
STAGE CONSTRUCTION LAPPING DETAIL



99' AND UNDER



100' TO 149'



150' AND LONGER

TYPICAL PLACEMENT OF ARROWS IN TURN LANES

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SCOPE OF WORK

1. Removal work:
Partial depth removal of piers, deck ends and approaches at abutments, including parapets. Full depth removal at diaphragm reconstruction locations.
Remove existing bridge rail for joint replacement as needed, each structure.
2. Construction work:
Cast deck ends, parapets, approaches and diaphragms at locations indicated.
Place Preformed Joint Strip Seal at joints at abutments and piers 1 & 3, both structures.
Replace fixed joint at pier 2, both structures.
Repair concrete beam ends.
Repair concrete diaphragm at location indicated.
Repair substructure.
3. Additional Construction work:
Wash, clean & Concrete Seal all tops and faces of pier caps, abutments bearing seats and backwalls.

GENERAL NOTES

Plan dimensions and details relative to existing structures have been taken from existing plans and 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.

All structural steel for expansion joints shall be AASHTO M 270 Grade 36, unless otherwise noted.

All new structural steel and bearing assemblies shall be hot-dip galvanized. See Special Provisions for "Hot Dip Galvanizing for Structural Steel".

Reinforcement bars designated (E) shall be epoxy coated.

Protective Coat shall be applied to all new concrete.

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

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

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. Quantity includes two coats.

INDEX OF SHEETS

- 1 General Plan and Elevation
- 2 General Data
- 3 Deck/Approach Slab Repair Details
- 4 "As-Built" Deck/Approach Slab Repair Details
- 5 Temporary Concrete Barrier
- 6 Joint Removal Details at Abutments
- 7 Joint Removal Details at Piers
- 8 Joint Replacement Details at Abutments
- 9 Joint Replacemet Details at Piers 1 & 3
- 10 Joint Replacemet Details at Pier 2
- 11 Preformed Joint Strip Seal
- 12 Bar Splicer Assembly and Mechanical Splicer Details
- 13 Fixed Bearing Details - Abutments & Pier 2
- 14 Expansion Bearing Details - Piers 1 & 3
- 15 - 20 Substructure Repair Details
- 21 - 25 Beam Repair Details

TOTAL BILL OF MATERIAL

	ITEM	UNIT	TOTAL
	Concrete Removal	Cu. Yd.	31.4
	Protective Shield	Sq. Yd.	776
	Concrete Superstructure	Cu. Yd.	31.6
	Protective Coat	Sq. Yd.	80.8
	Reinforcement Bars, Epoxy Coated	Pound	4500
	Bar Splicers	Each	80
	Preformed Joint Strip Seal	Foot	284
	Furnishing and Erecting Structural Steel	Pounds	4,080
	Elastomeric Bearing Assembly, Type II	Each	44
	Anchor Bolts, 1 1/4"	Each	176
	Concrete Sealer	Sq. Ft.	2824
	Polymerized Hot-Mix Asphalt Surface Course, IL-9.5FG, Mix "D", N70	Ton	82
	Polymerized Hot-Mix Asphalt Surface Course, IL-9.5, Mix "D", N70	Ton	82
	Hot-Mix Asphalt Surface Removal (Deck)	Sq. Yd.	602
*	Hot-Mix Asphalt Surface Removal (Special)	Sq. Yd.	1386
	Polymerized Hot-Mix Asphalt Binder Course, IL-4.75, N50	Ton	12
	Full Lane Sealant Waterproofing System	Sq. Yd.	693
*	Remove and Reerect Rail Existing Bridge Rail	Foot	298
*	Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.	763
*	Bridge Curb or Hubguard Repair	Foot	245
*	Epoxy Crack Injection	Foot	114
*	Acrylic Coating	Sq. Yd.	184.9
*	Fiber Wrap	Sq. Ft.	1087
*	Approach Slab Repair (Partial Depth)	Sq. Yd.	25
*	Jack & Remove Existing Bearings	Each	88
*	Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	2
*	Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	10
*	Deck Slab Repair (Partial)	Sq. Yd.	20
*	Precast Prestressed Concrete I-Beam Repair	Sq. Ft.	363
*	Repair Existing Conduit Attached to Structure	L. Sum	1
*	Special Provisions		

KT

KUHN & TRELLO

CONSULTING ENGINEERS

A Limited Liability Company

109 N. 7th Street, 3rd Floor

Springfield, IL 62701

Phone: 217-678-0844

Professional Design Firm No. 184-006556

USER NAME =

DESIGNED - PDA

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CHECKED - PRR

REVISED -

PLOT SCALE =

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PLOT DATE =

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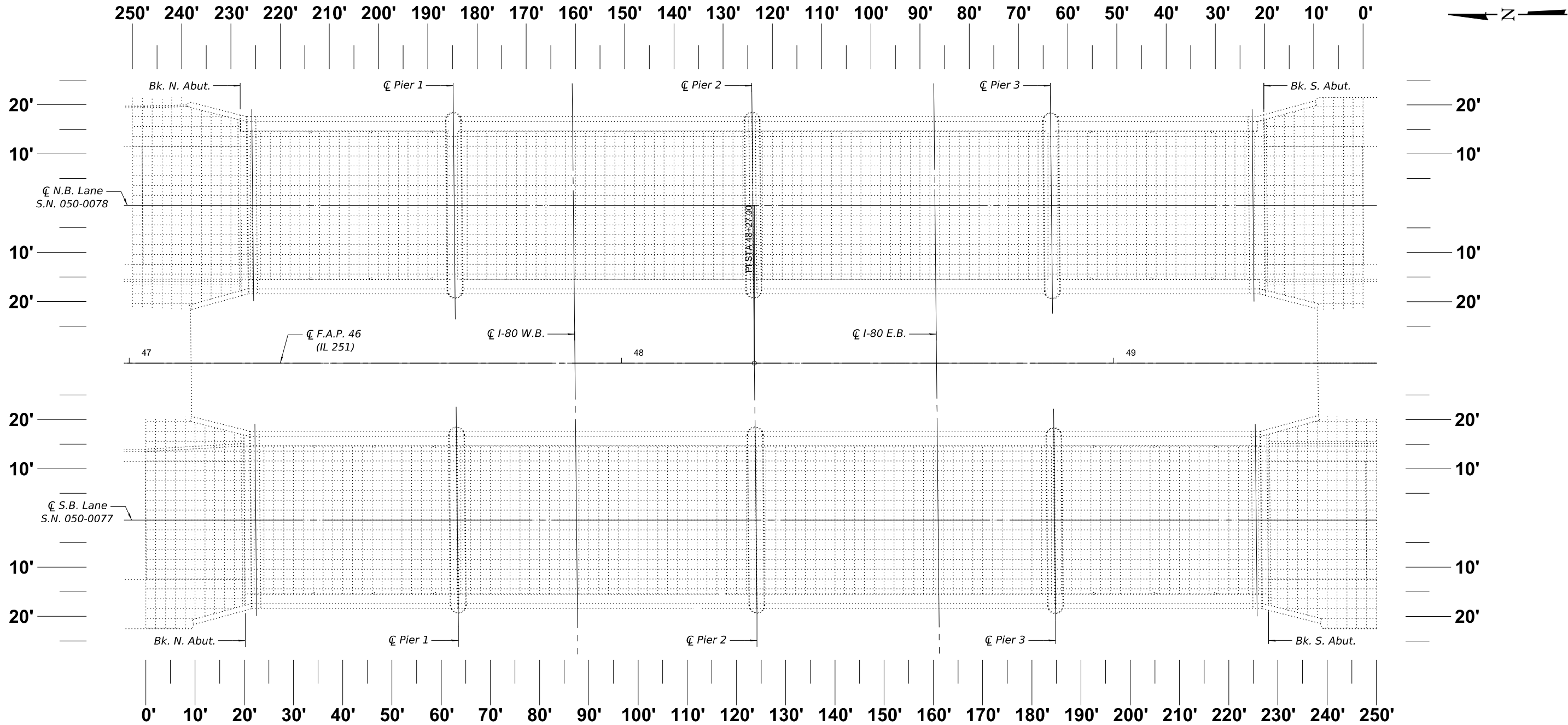
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL DATA
STRUCTURE NO. 050-0077 (SB) & 050-0078 (NB)

SHEET 2 OF 25 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
46	(50-2HB)BRR	LASALLE	48	25
CONTRACT NO. 66R21				
		ILLINOIS	FED. AID PROJECT	



"AS-BUILT" PLAN
DECK PATCHING

LEGEND

-  Approach Slab Repair (Partial Depth)
-  Deck Slab Repair (Partial Depth)
-  Deck Slab Repair (Full Depth, Type I)
-  Deck Slab Repair (Full Depth, Type II)
-  2' x 2' Gridlines

NOTE:
When all deck slab repairs have been completed, the Engineer shall record the actual deck slab repair locations and repair areas on this "As-Built" plan sheet. When all deck repairs have been shown on this detail, the "As-Built" deck slab repairs shall be submitted to the Bridge Office for their record. "See Commitments".

MODEL: Sheet
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CONSULTING ENGINEERS

A Limited Liability Company

109 N. 7th Street, 3rd Floor
Springfield, IL 62701
Phone: 217-678-0844

Professional Design Firm No. 184-006556

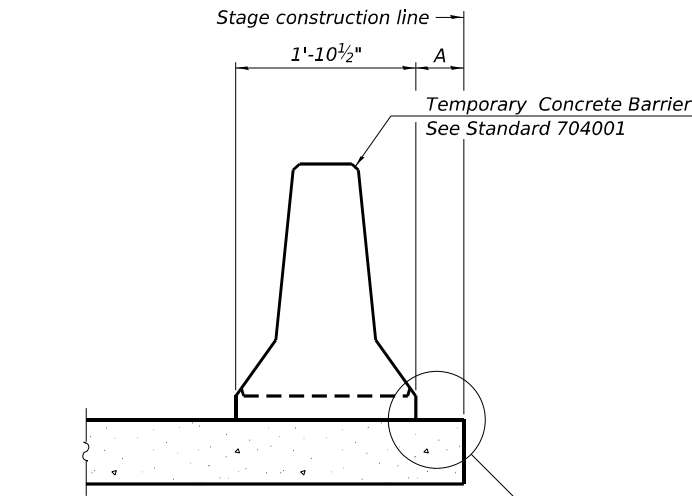
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	PLOT DATE =	CHECKED -	MJT	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

"AS-BUILT" DECK/APPROACH SLAB REPAIR DETAILS
STRUCTURE NO. 050-0077 (SB) & 050-0078 (NB)

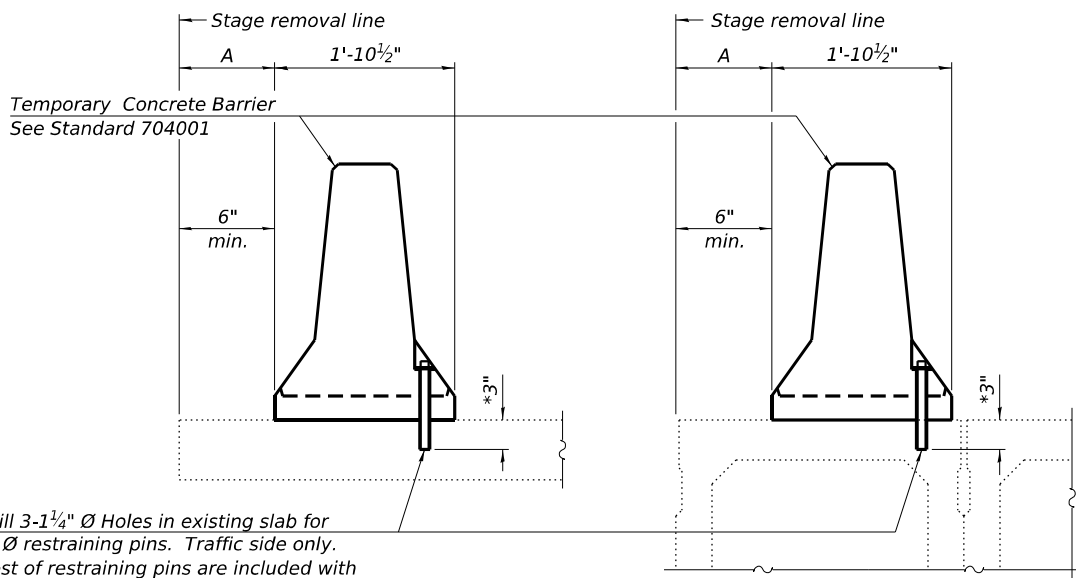
SHEET 4 OF 25 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
46	(50-2HB)BRR	LASALLE	48	27
CONTRACT NO. 66R21				
ILLINOIS FED. AID PROJECT				



When "A" is 3'-1" or less, the temporary concrete barrier shall be restrained to the new slab according to Detail I, II or III. No restraint is required when "A" is greater than 3'-1".

NEW SLAB OR NEW DECK BEAM

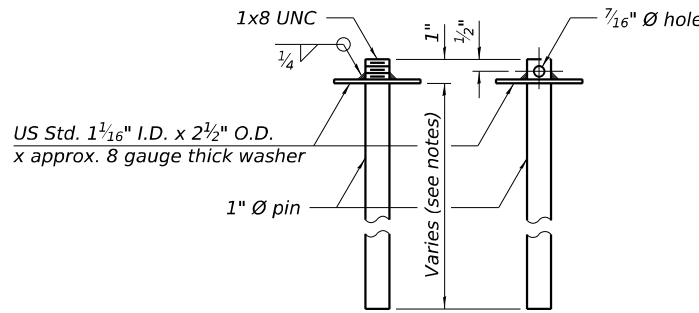


Drill 3-1 1/4" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins is included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

EXISTING SLAB

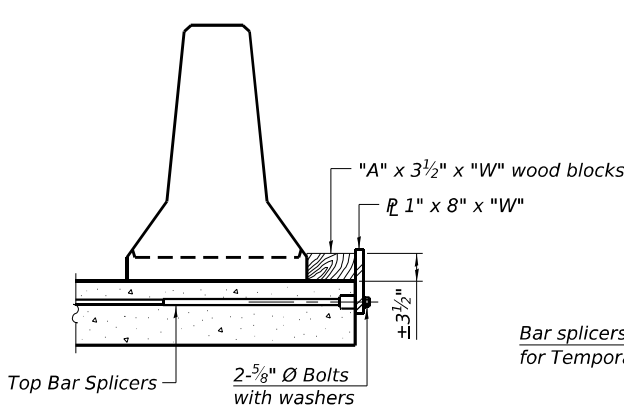
* When hot-mix asphalt wearing surface is present, embedment shall be 3" plus the wearing surface depth.

EXISTING DECK BEAM

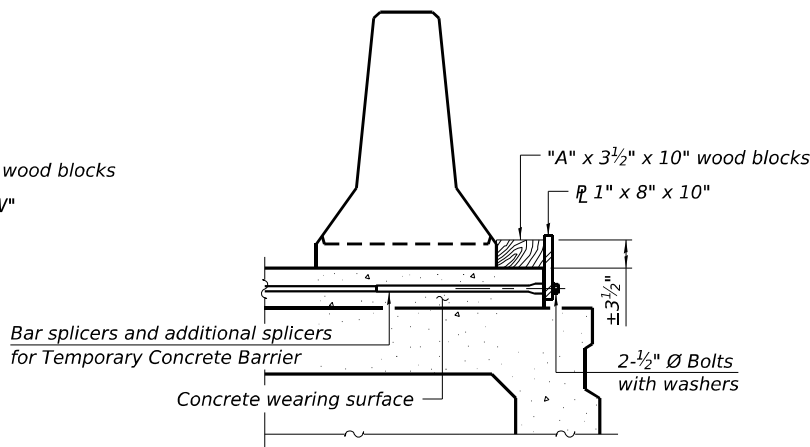


RESTRAINING PIN

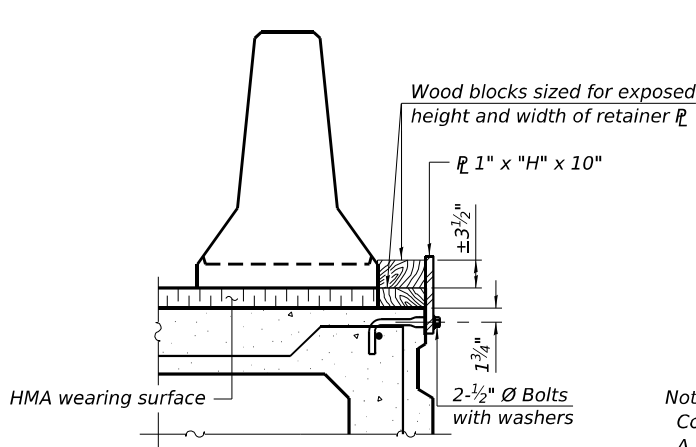
SECTIONS THRU SLAB OR DECK BEAM



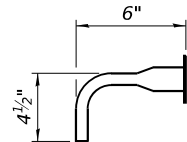
DETAIL I



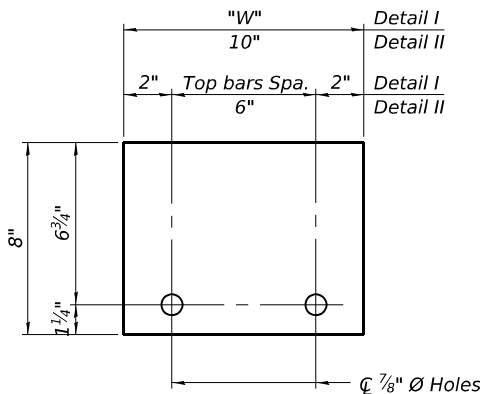
DETAIL II



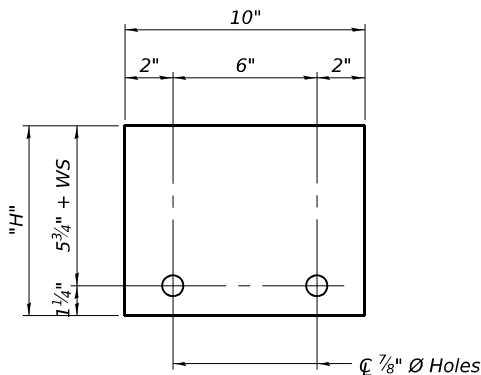
DETAIL III



BAR SPLICER FOR #4 BAR - DETAIL III



STEEL RETAINER R 1" x 8" x "W"
(Detail I and II)



STEEL RETAINER R 1" x "H" x 10"
(Detail III)

Notes:
Cost of retainer assembly is included with Temporary Concrete Barrier.
A retainer assembly shall be located at the approximate C of each temporary concrete barrier.
The retainer plate shall not be removed until the concrete on the adjacent stage is ready to be poured. For Detail III applications the retainer plate shall not be removed until just prior to placing the adjacent beam.
When the 'A' dimension is less than 1 1/2", the wood block shall be omitted and the barrier shall be placed in direct contact with the steel retainer plate. For deck beam applications the minimum required 'A' distance is 6" to accommodate the shear key clamping device.

Detail I - Installation for a new bridge deck or bridge slab.

Detail II - Installation for a new deck beam with an initial concrete wearing surface. Additional bar splicers shall be provided at 6'-0" centers and paired with the bar splicers of the concrete wearing surface reinforcement to accommodate the installation of the retainer assemblies. The cost of the additional bar splicers is included with the concrete wearing surface.

Detail III - Installation for a new deck beam with no initial wearing surface or with an initial hot-mix asphalt (HMA) wearing surface present. The deck beam directly beneath the temporary concrete barrier shall be fabricated with bar splicer inserts in the side of the beam, as detailed, to accommodate the installation of the retainer assemblies. A pair of bar splicers, 6" apart, shall be placed at 6'-0" centers along the length of the beam. The cost of the bar splicers is included with the deck beam.

RAILING CRITERIA

NCHRP 350 Test Level	3
Railing Weight (plf)	440

R-27

5-15-2023

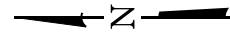
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER
STRUCTURE NO. 050-0077 (SB) & 050-0078 (NB)

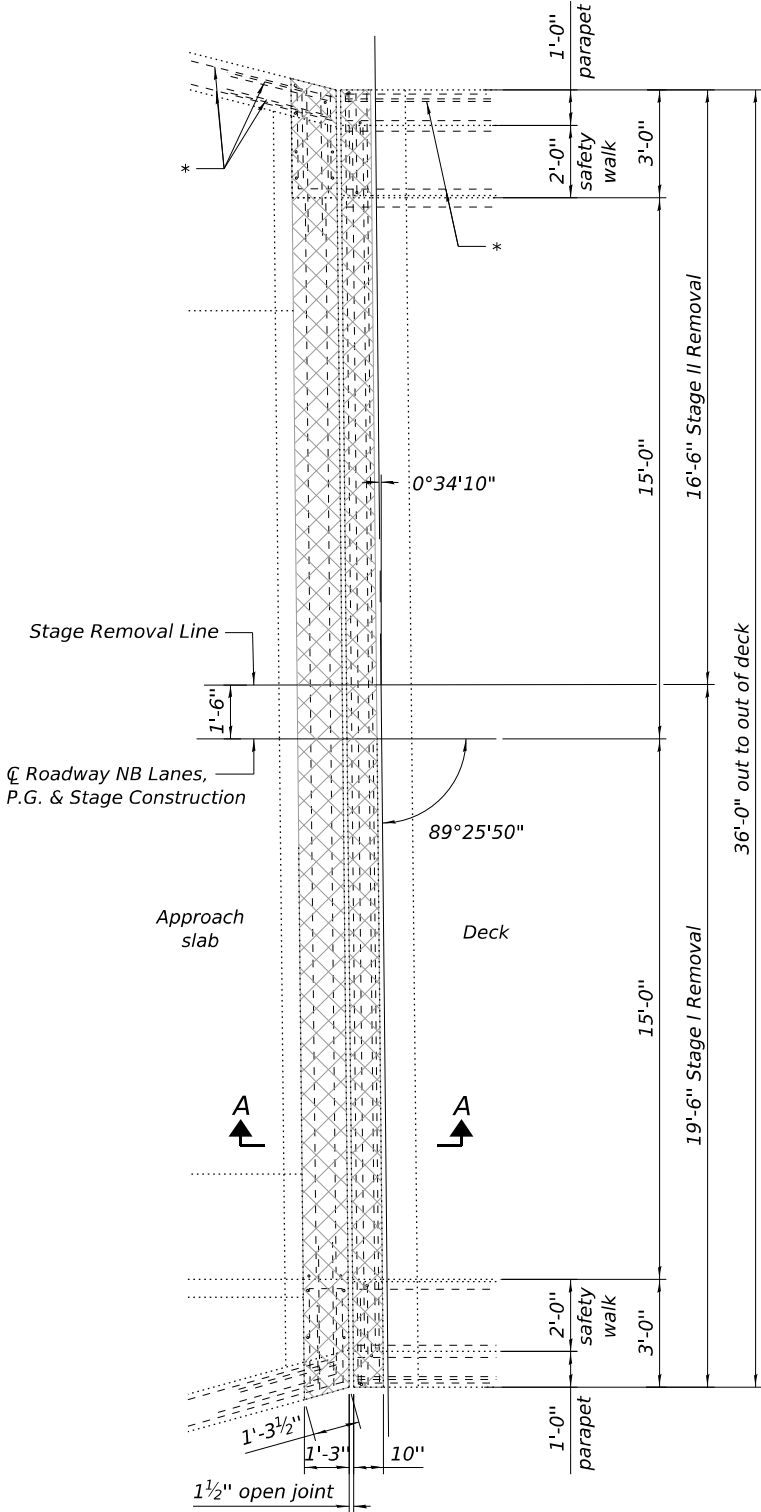
SHEET 5 OF 25 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
46	(50-2HB)BRR	LASALLE	48	28
CONTRACT NO. 66R21				
ILLINOIS FED. AID PROJECT				

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* 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.

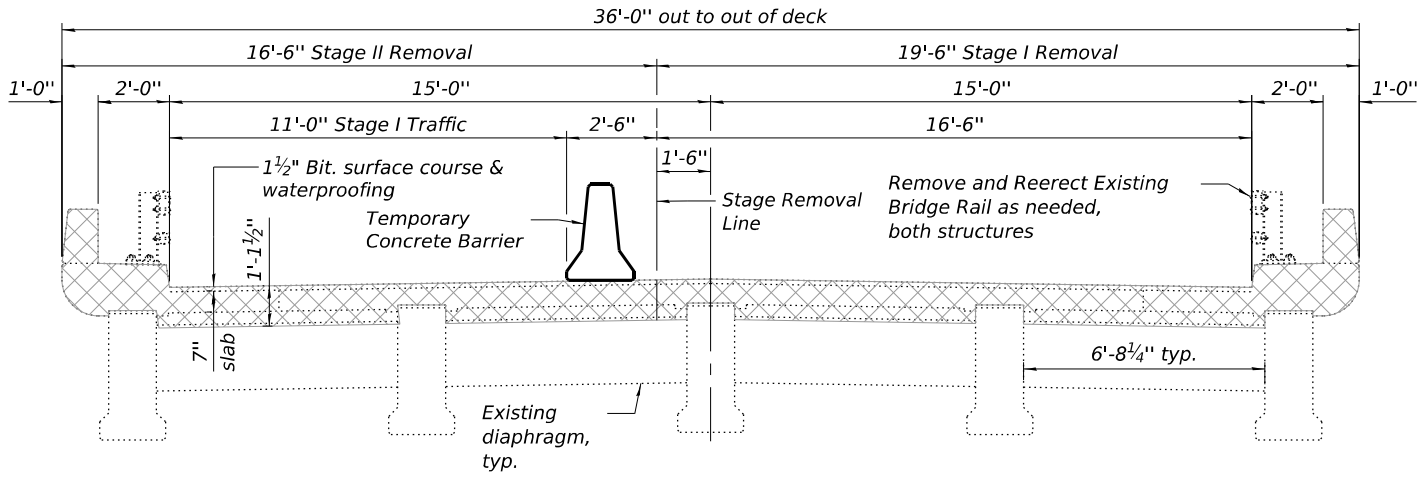


CONCRETE REMOVAL PLAN

(N. Abut. NB Lanes shown. All other abutments similar by rotation or opposite hand)

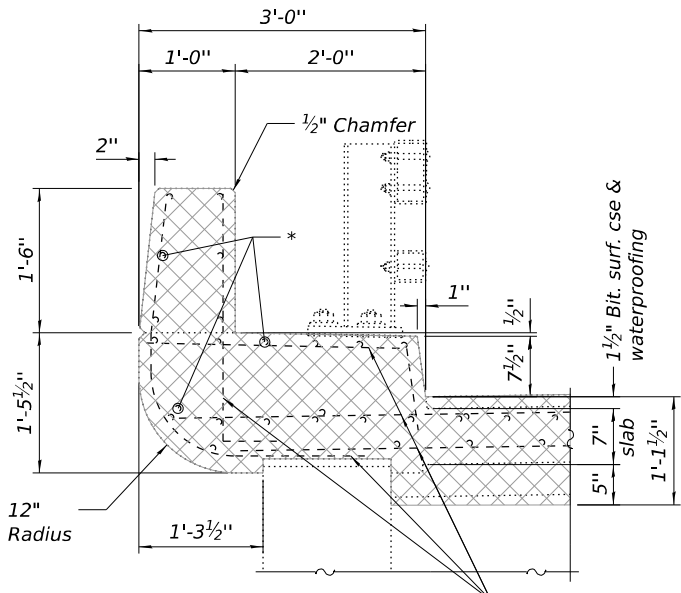
LEGEND

 Concrete Removal

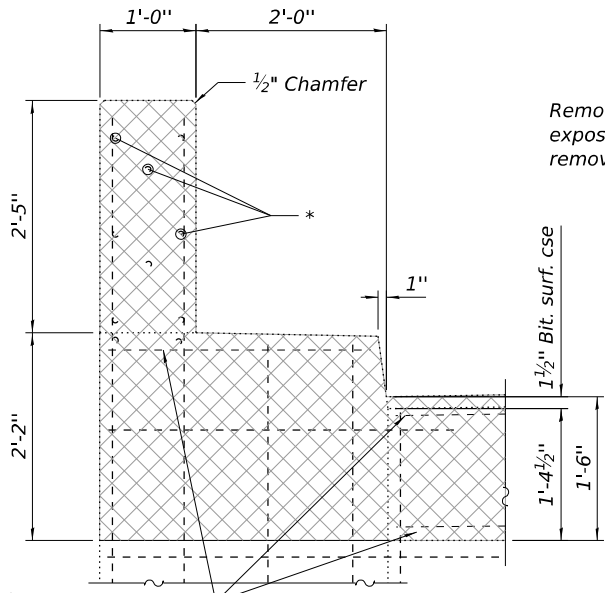


CROSS SECTION AT ABUTMENT JOINT REPLACEMENT LOCATIONS

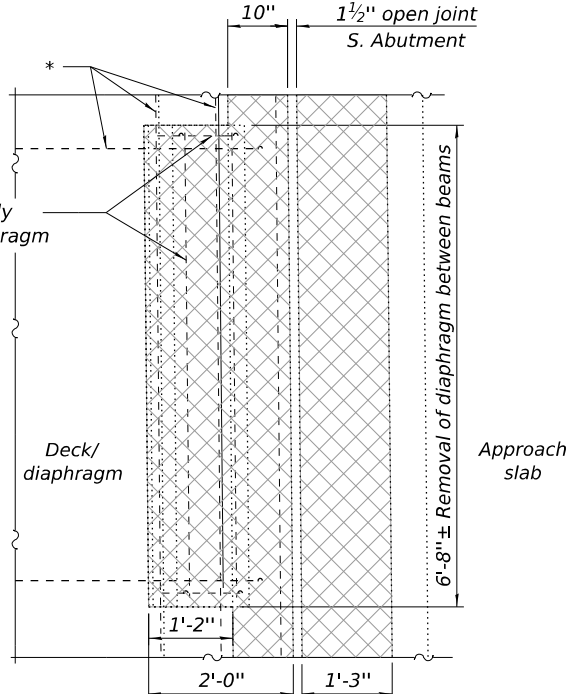
(NB Lanes Span 1 shown looking south)



SECTION THRU DECK

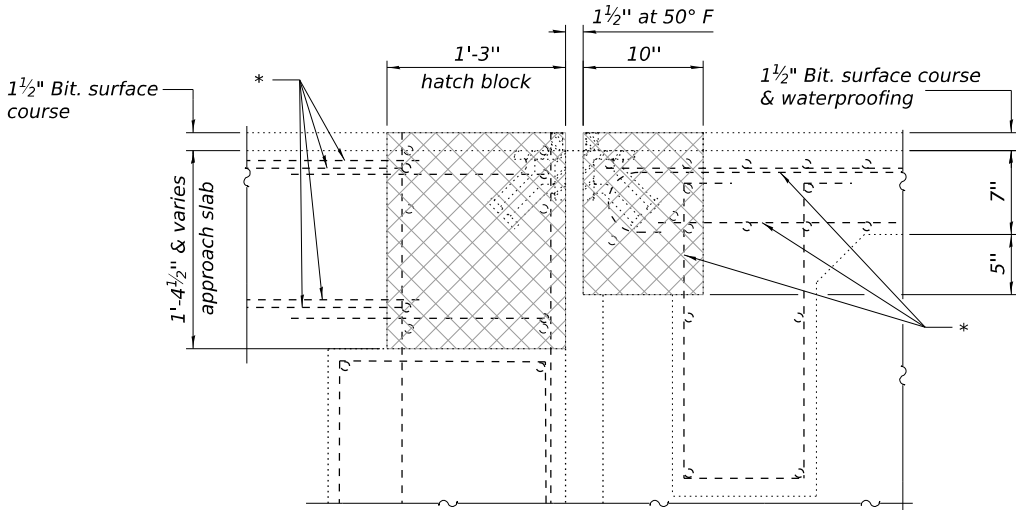


SECTION THRU APPROACH

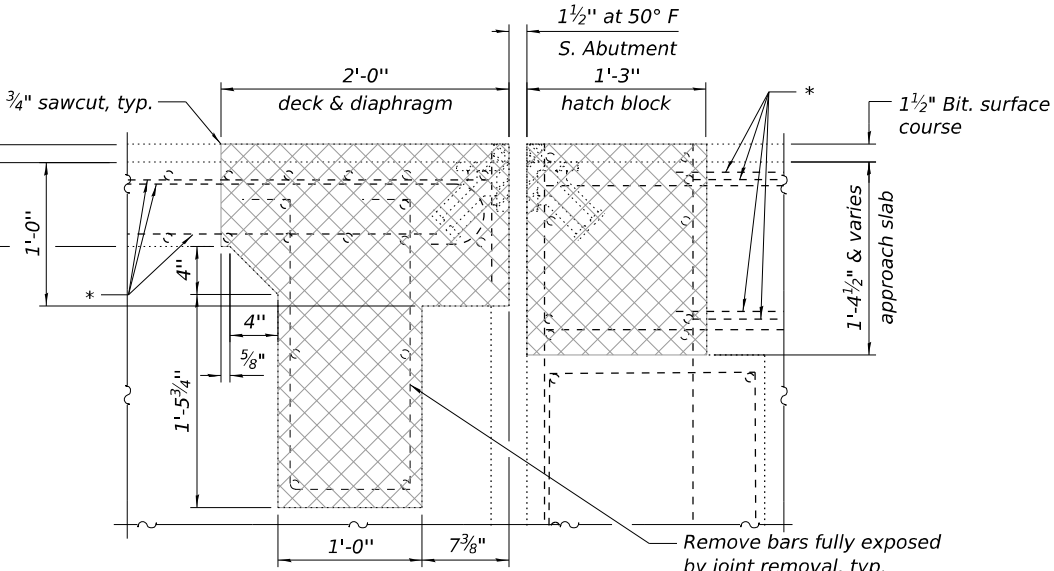


DIAPHRAGM RECONSTRUCTION PLAN

(NB lanes between Beams 20 & 21 at South abutment)



SECTION A-A



SECTION AT DIAPHRAGM REMOVAL LOCATION

(NB lanes between Beams 20 & 21 at South abutment)

MODEL: Sheet
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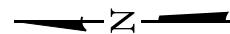
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

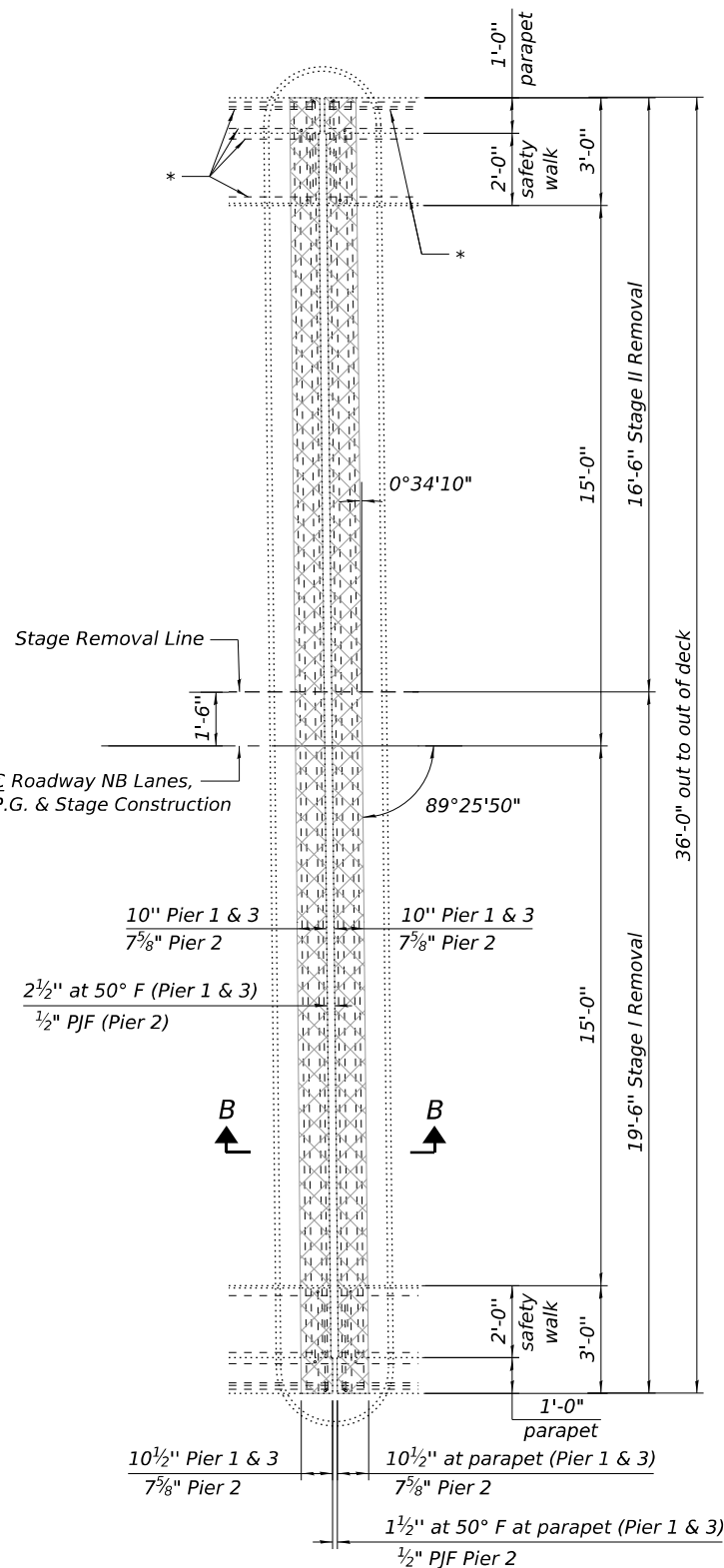
JOINT REMOVAL DETAILS AT ABUTMENTS
STRUCTURE NO. 050-0077 (SB) & 050-0078 (NB)

SHEET 6 OF 25 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
46	(50-2HB)BRR	LASALLE	48	29
CONTRACT NO. 66R21				
ILLINOIS FED. AID PROJECT				

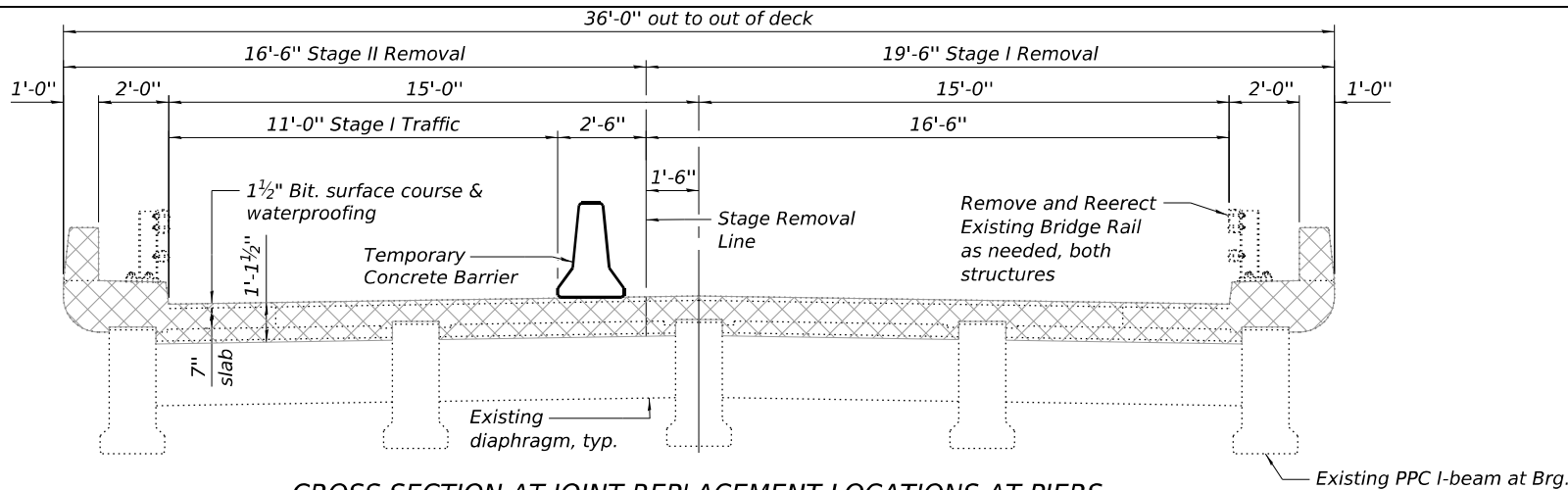


* Existing reinforcement bars extending into the removal area shall be cleaned, straightened, and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.



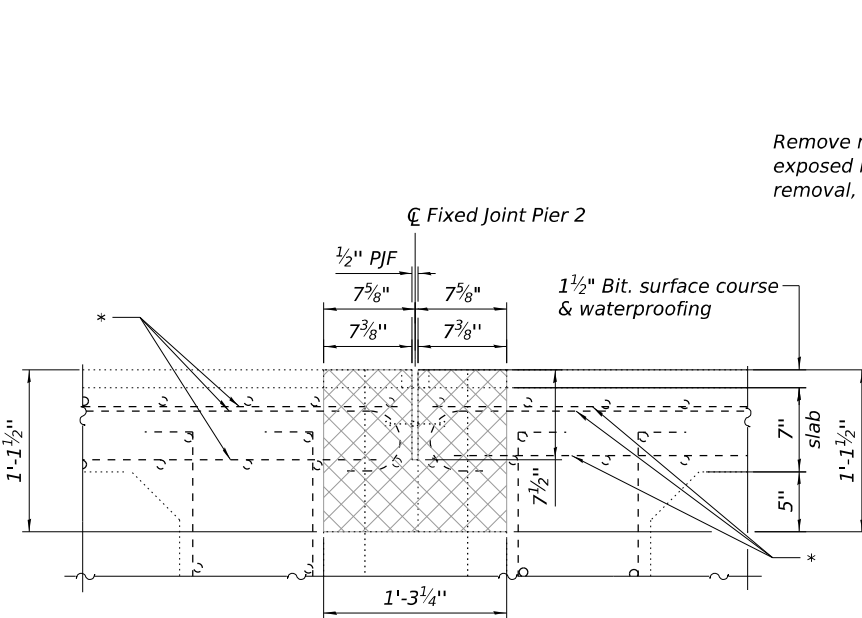
CONCRETE REMOVAL PLAN

(Pier 1 NB lanes shown. Pier 3 NB similar.
Piers 1 & 3 SB lanes similar by opposite hand.
Fixed Pier 2 both structures similar, see Section this sheet)

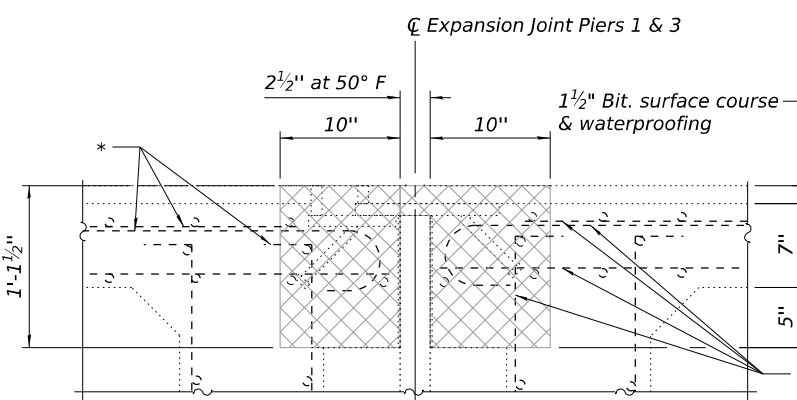


CROSS SECTION AT JOINT REPLACEMENT LOCATIONS AT PIERS

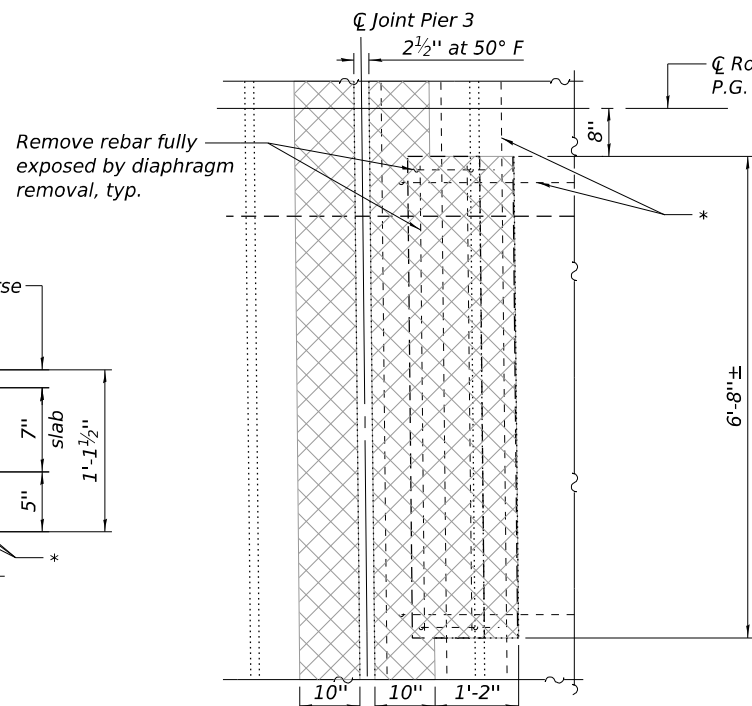
(NB Lanes Span 1 side of Pier 1 & Span 4 side of Pier 3 shown looking south. All other sections similar except 6 beams instead of 5)



SECTION THRU JOINT AT PIER 2

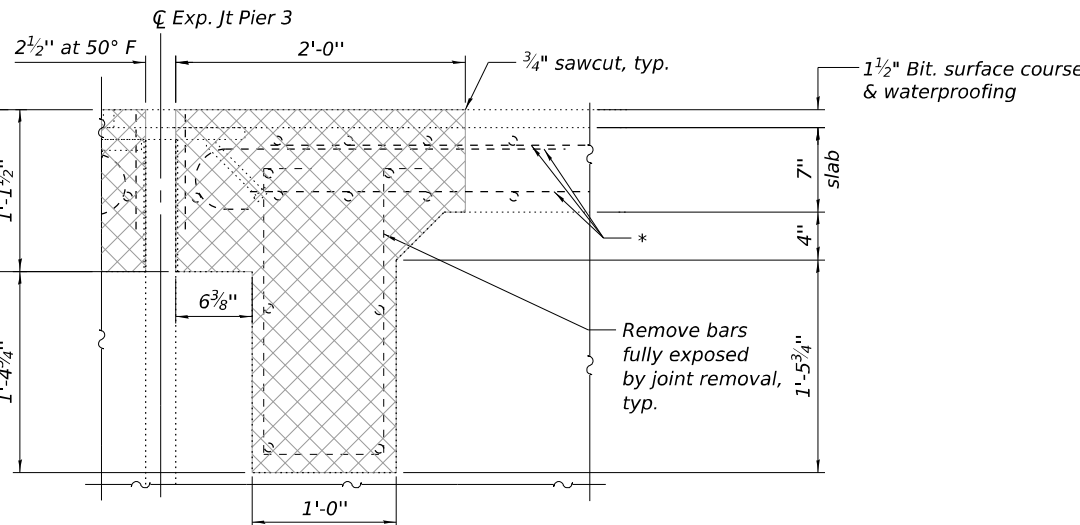


SECTION B-B THRU JOINT AT PIERS 1 & 3



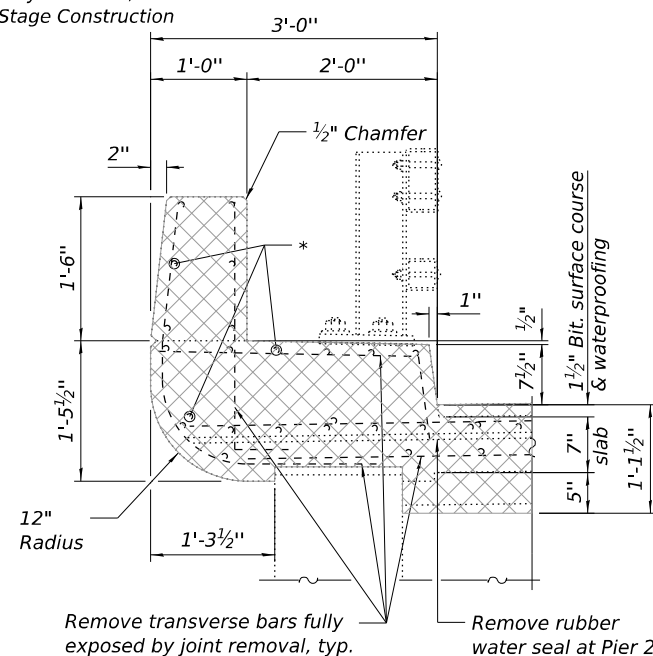
DIAPHRAGM REMOVAL PLAN

(Pier 3 SB, Span 4 side between Beams 19 & 20)



SECTION AT DIAPHRAGM REMOVAL LOCATION

(Pier 3 SB Shown)



SECTION THRU DECK

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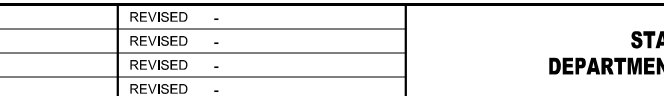
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

JOINT REMOVAL DETAILS AT PIERS
STRUCTURE NO. 050-0077 (SB) & 050-0078 (NB)

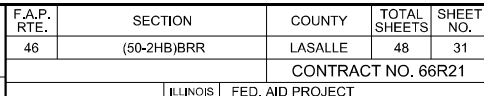
SHEET 7 OF 25 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 66R21				
ILLINOIS FED. AID PROJECT				

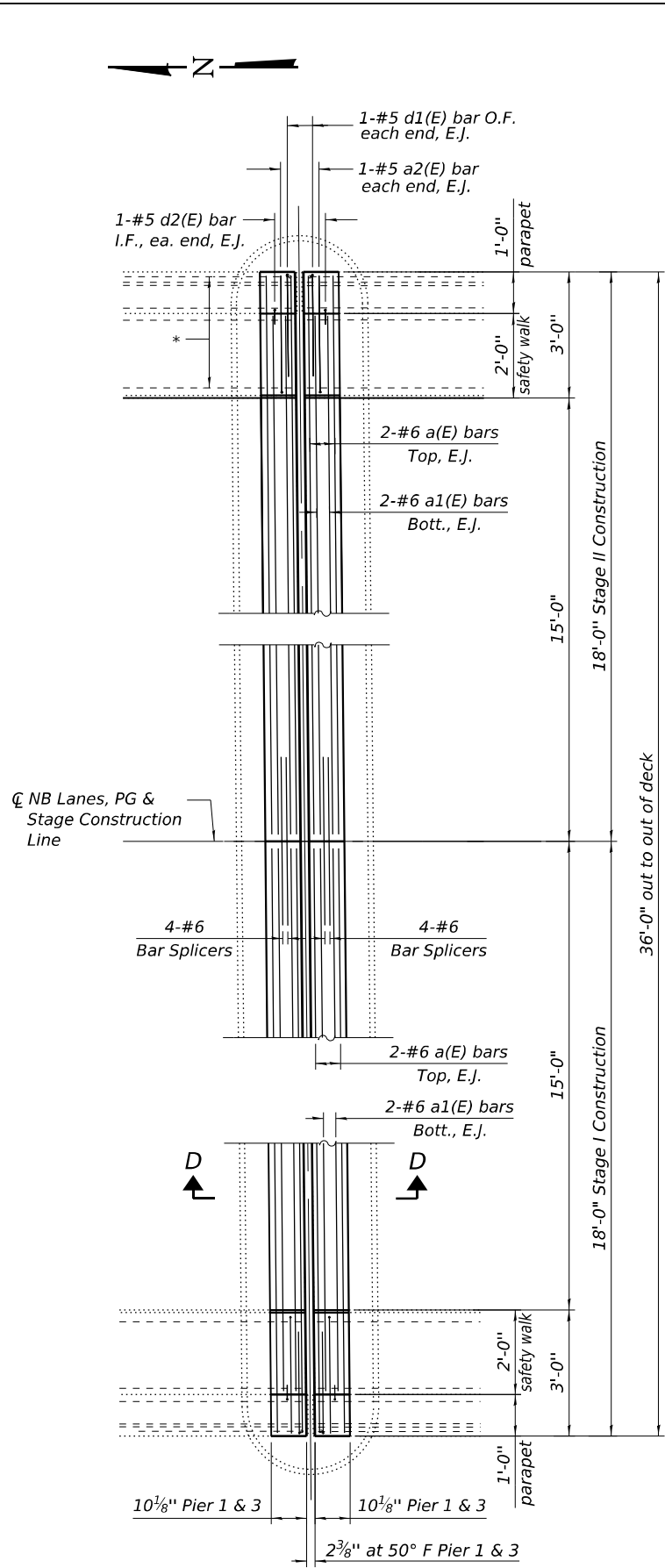
36'-0" out to out of deck



SECTION AT DIAPHRAGM
RECONSTRUCTION LOCATION
(S. Abut. NB Lanes shown)

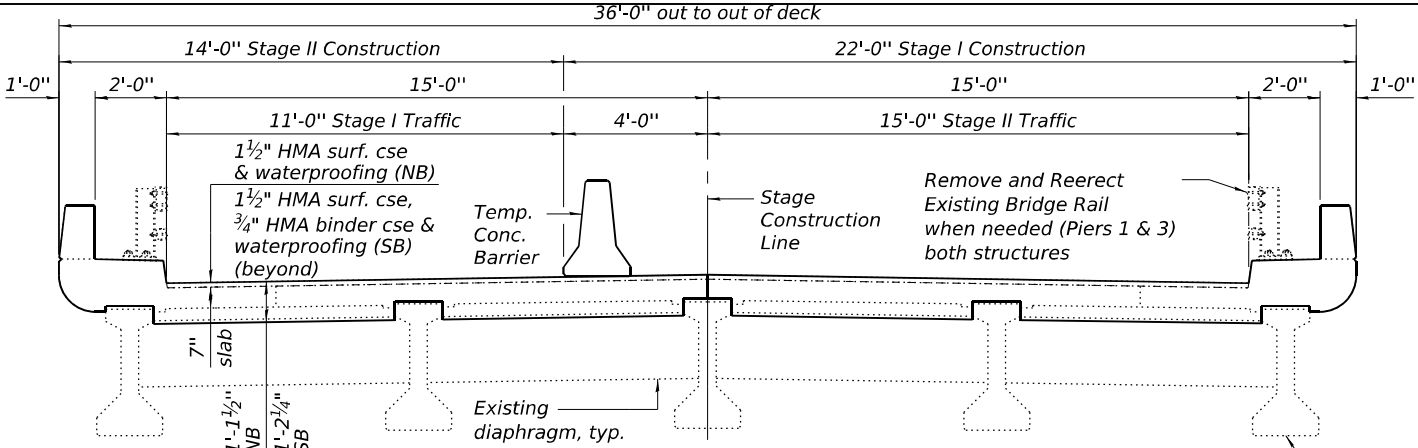


Bar	No.	Size	Length	Shape
a(E)	16	#6	17'-8"	————
a1(E)	16	#6	16'-8"	————
a2(E)	8	#5	4'-2"	└┐
a3(E)	4	#4	6'-4"	————
d(E)	16	#4	4'-0"	————
d1(E)	8	#5	4'-5"	└┐
d2(E)	8	#5	3'-2"	└┐
h(E)	32	#6	17'-8"	————
s(E)	6	#4	5'-8"	└┐
u(E)	8	#4	6'-3"	└┐
Concrete Removal			Cu. Yd.	16.6
Concrete Superstructure			Cu. Yd.	16.1
Reinforcement Bars, Epoxy Coated			Pound	1890
Bar Splicers			Each	32



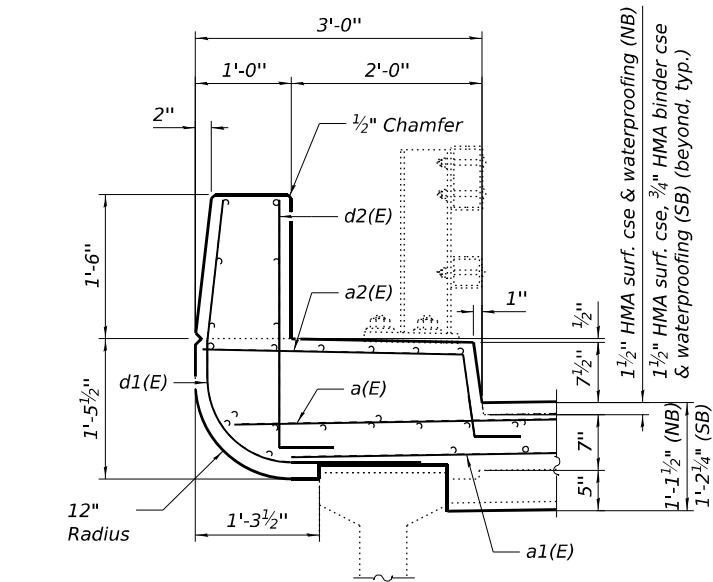
PROPOSED PLAN

(Pier 1, NB lanes shown. Pier 3 similar by rotation.
Piers 1 & 3, SB lanes, similar by opposite hand.)

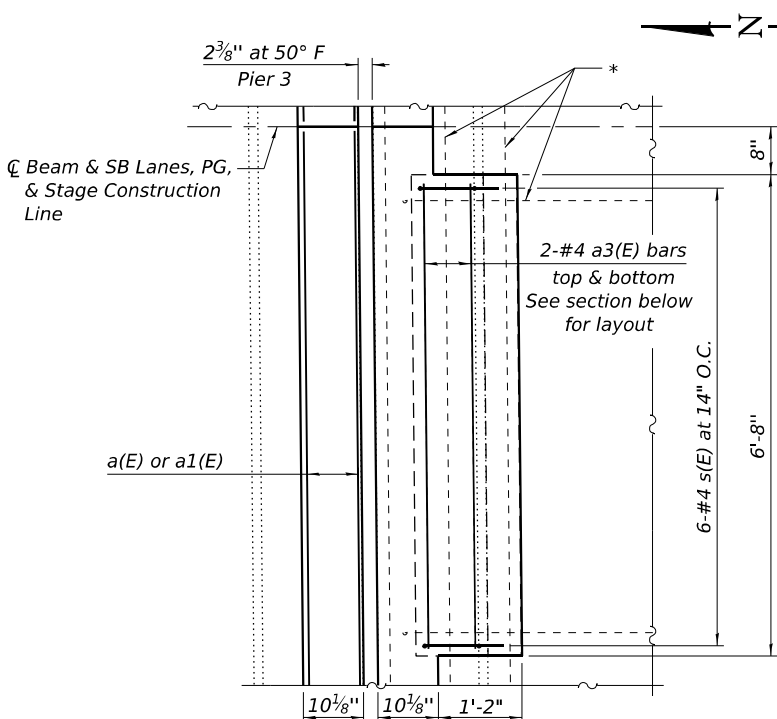


CROSS SECTION AT PIERS JOINT REPLACEMENT LOCATIONS

(NB Lanes Span 1 side of Pier 1 & Span 4 side of Pier 3 shown looking south. All other sections similar except 6 beams instead of 5)

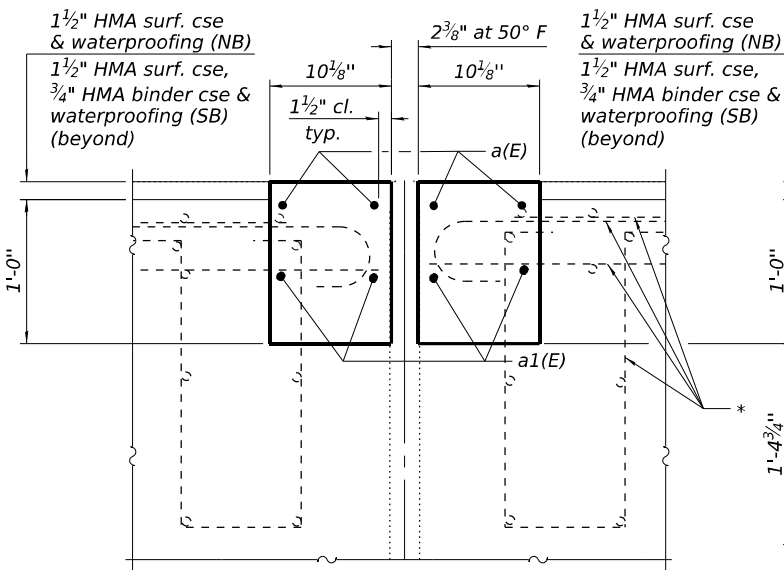


SECTION THRU DECK AT PIER JOINT REPLACEMENT LOCATIONS

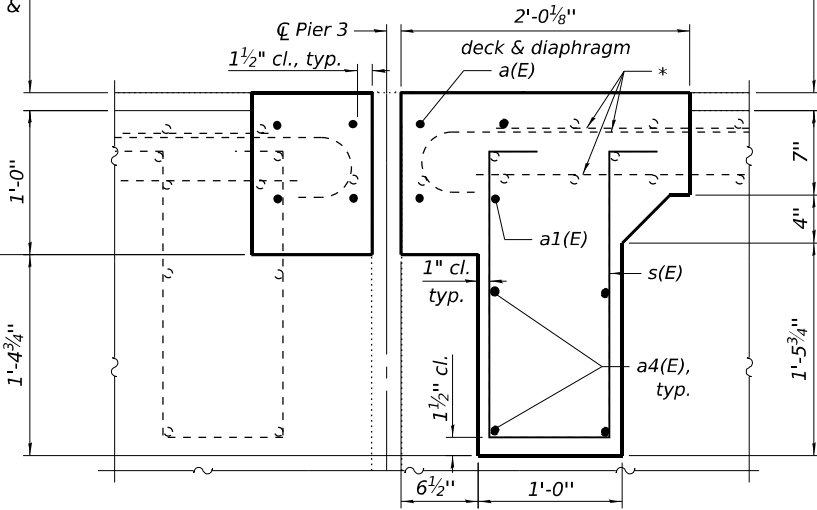


DIAPHRAGM RECONSTRUCTION PLAN

(S. Abut. NB Lanes between Span 4 Beams 19 & 20 shown)



SECTION D-D - PIERS 1 & 3



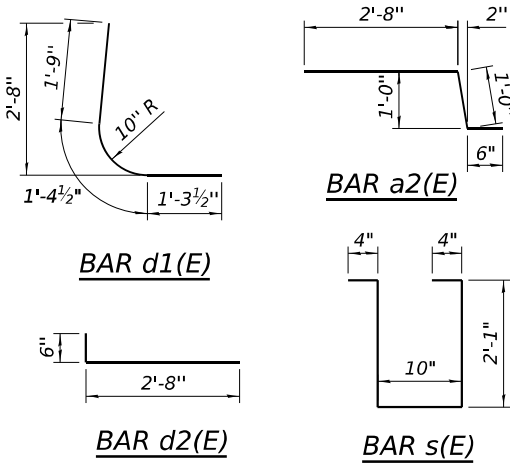
SECTION THRU DIAPHRAGM RECONSTRUCTION LOCATION

NOTES:

For fixed Pier 2 joint replacement details, see sheet 10 of 25.

* Existing reinforcement bars extending into the removal area shall be cleaned, straightened, and incorporated into the new construction.

O.F. Outside Face
I.F. Inside Face
E.J. Each side of joint



SIX PIERS BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	48	#6	17'-8"	
a1(E)	48	#6	16'-8"	
a2(E)	24	#5	4'-2"	
a3(E)	4	#4	6'-4"	
d1(E)	24	#5	4'-5"	
d2(E)	24	#5	3'-2"	
s(E)	6	#4	5'-8"	
Concrete Removal			Cu. Yd.	14.7
Concrete Superstructure			Cu. Yd.	15.5
Reinforcement Bars, Epoxy Coated Bar Splicers			Pound	2810
			Each	48

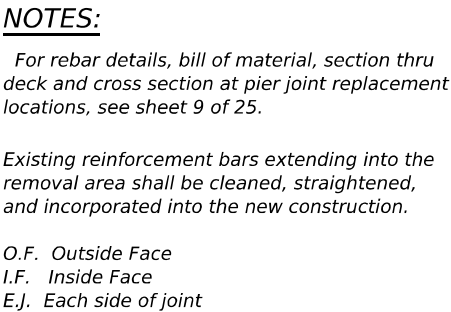
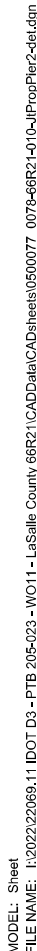
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

JOINT REPLACEMENT DETAILS AT PIERS 1 & 3
STRUCTURE NO. 050-0077 (SB) & 050-0078 (NB)

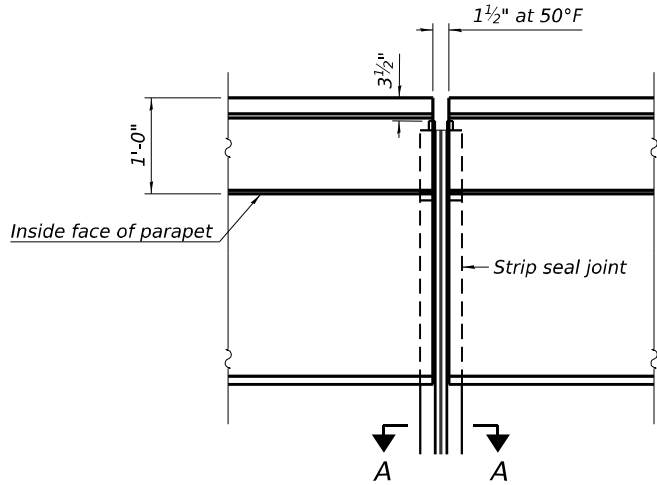
SHEET 9 OF 25 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
46	(50-2HB)BRR	LASALLE	48	32
CONTRACT NO. 66R21				
ILLINOIS FED. AID PROJECT				

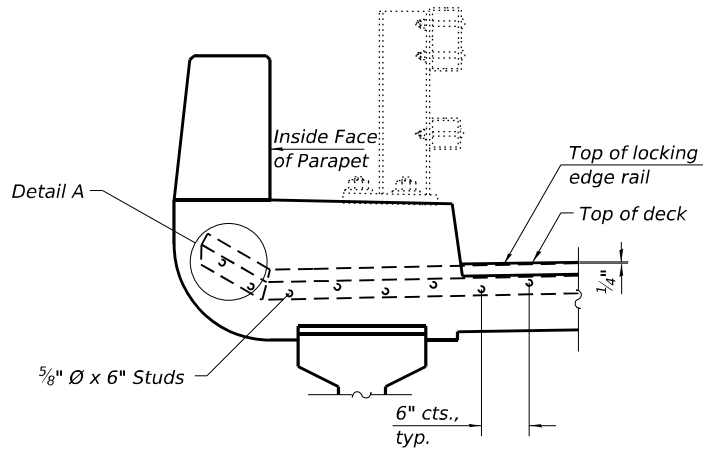
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PLOT SCALE =	CHECKED - PRR	REVISED -
PLOT DATE =	DRAWN - MMY	REVISED -
	CHECKED - MJT	REVISED -



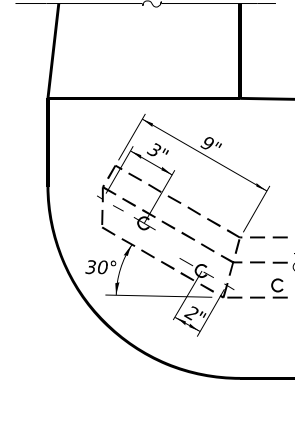
 KUHN & TRELLO CONSULTING ENGINEERS A Limited Liability Company 100 N. 7th Street, 3rd Floor Springfield, IL 62702 Phone: 217-679-0044 Professional Design Firm No. 184-006516	USER NAME =	DESIGNED - PDA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	JOINT REPLACEMENT DETAILS AT FIXED PIER 2 STRUCTURE NO. 050-0077 (SB) & 050-0078 (NB)	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED - PRR	REVISED -			46	(50-2HB)BRR	LASALLE	48	33
	PLOT SCALE =	DRAWN - MMY	REVISED -			CONTRACT NO. 66R21				
	PLOT DATE =	CHECKED - MJT	REVISED -			SHEET 10 OF 25 SHEETS				
							ILLINOIS	FED. AID PROJECT		



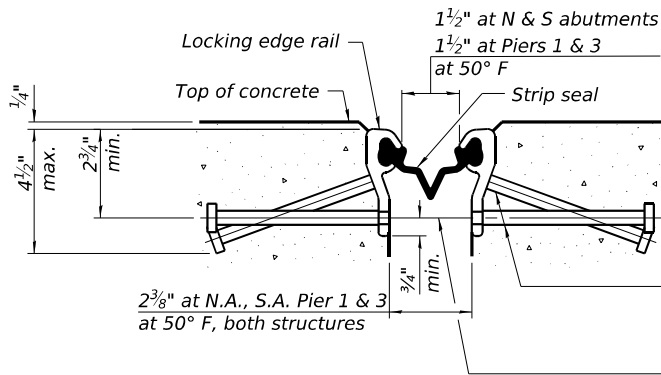
PLAN AT PARAPET
(Pier 1 & 3 shown, Abutments Similar)
(None at Fixed Pier 2)



SECTION AT PARAPET (With Safety Walk)



DETAIL A



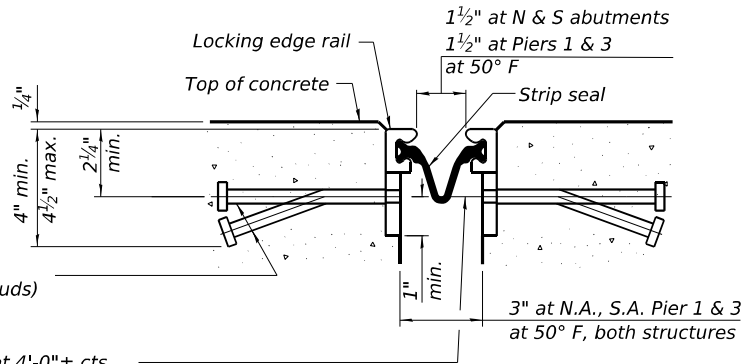
SHOWING ROLLED RAIL JOINT

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

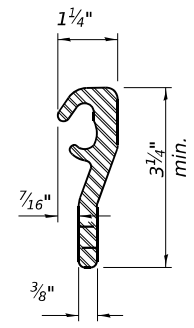
3/8" Ø threaded rods in 7/16" Ø holes at 4'-0"± cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

SECTION A-A

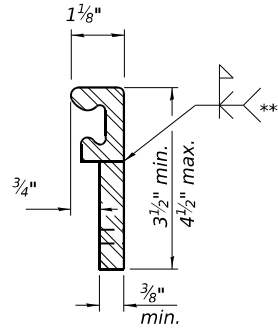
* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.



SHOWING WELDED RAIL JOINT



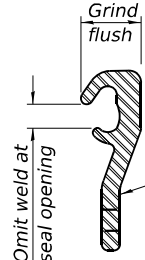
ROLLED (EXTRUDED) RAIL



WELDED RAIL

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	284

MODEL: Sheet
FILE NAME: I:\2022\22069.11 IDOT D3 - PTB 205-023 - WO11 - LaSalle County 66R21\CADData\CADsheets\0500077_0078-66R21-011-PreForm-Joint-Strip-Seal.dgn
12/8/2025 2:32:59 PM



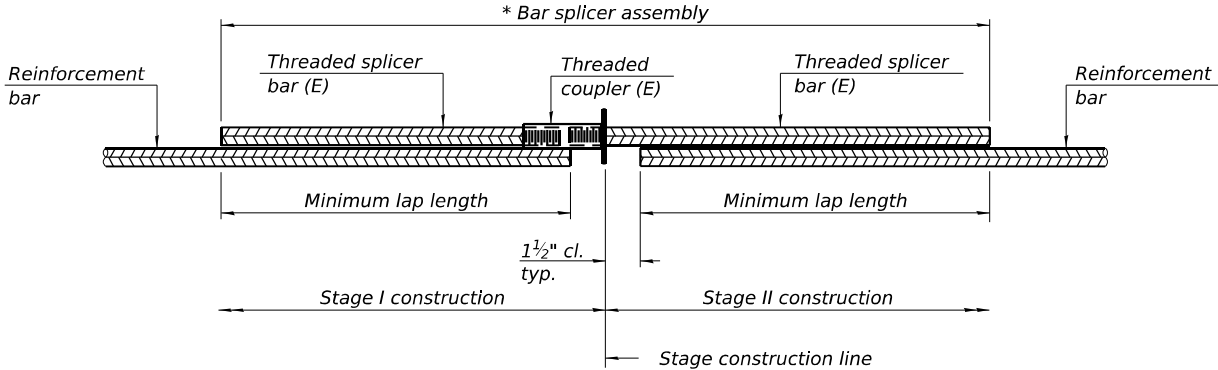
USER NAME =	DESIGNED - PDA	REVISED -
PLOT SCALE =	CHECKED - PRR	REVISED -
PLOT DATE =	DRAWN - MMY	REVISED -
	CHECKED - MJT	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PREFORMED JOINT STRIP SEAL
STRUCTURE NO. 050-0077 (SB) & 050-0078 (NB)**

SHEET 11 OF 25 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
46	(50-2HB)BRR	LASALLE	48	34
CONTRACT NO. 66R21				
ILLINOIS FED. AID PROJECT				



STANDARD BAR SPLICER ASSEMBLY PLAN

Only bar splicer assemblies as presented on the approved QPL list may be used.

Threaded splicer bar length = min. lap length + 1½" + thread length

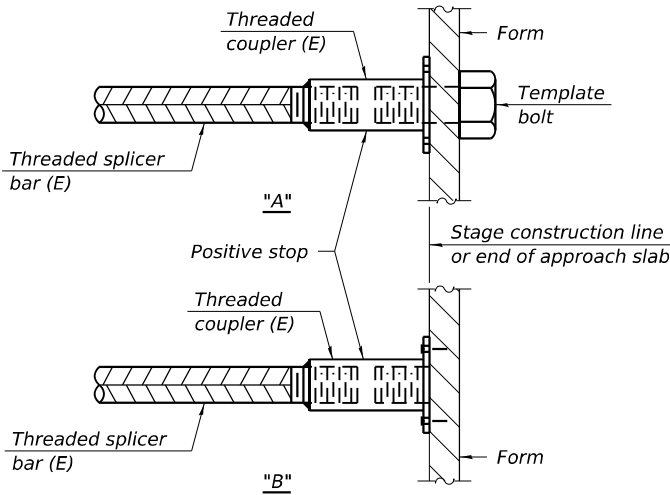
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

S.N. 050-0077 S.B.

Location	Bar size	No. assemblies required	Minimum lap length
N. Abut. - Hatch Block	#6	4	4'-1"
N. Abut. - Deck	#6	4	4'-1"
S. Abut. - Hatch Block	#6	4	4'-1"
S. Abut. - Deck	#6	4	4'-1"
Pier 1 - Deck	#6	8	4'-1"
Pier 2 - Deck	#6	8	4'-10"
Pier 3 - Deck	#6	8	4'-1"

S.N. 050-0078 N.B.

Location	Bar size	No. assemblies required	Minimum lap length
N. Abut. - Hatch Block	#6	4	4'-1"
N. Abut. - Deck	#6	4	4'-1"
S. Abut. - Hatch Block	#6	4	4'-1"
S. Abut. - Deck	#6	4	4'-1"
Pier 1 - Deck	#6	8	4'-1"
Pier 2 - Deck	#6	8	4'-10"
Pier 3 - Deck	#6	8	4'-1"

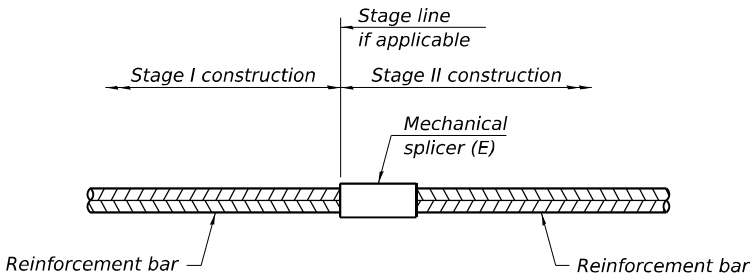


INSTALLATION AND SETTING METHODS

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

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

(E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required

Notes:
Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.
All reinforcement shall be lapped and tied to the splicer bars.
Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.
See approved list of bar splicer assemblies and mechanical splicers for alternatives.

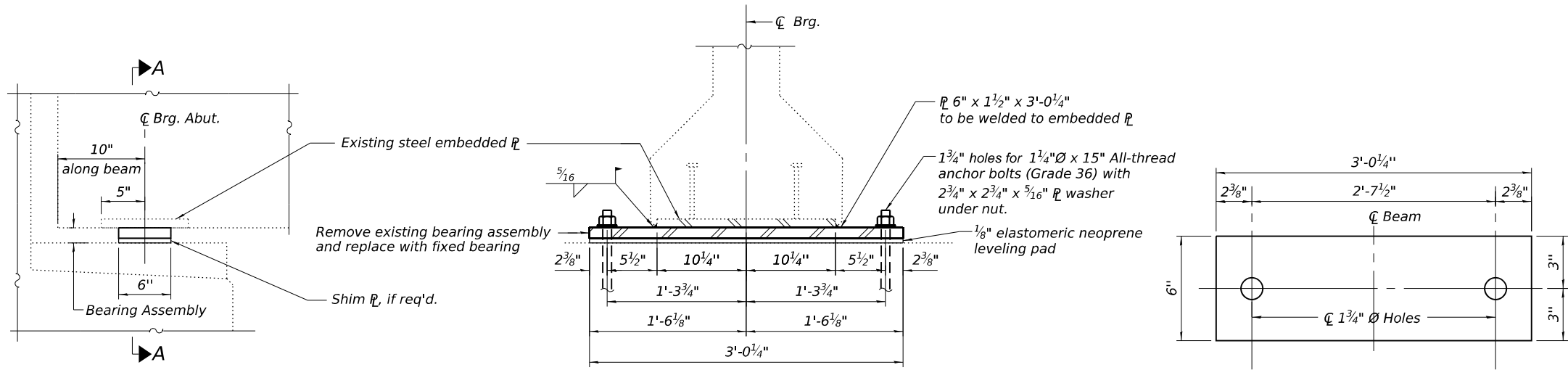
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
STRUCTURE NO. 050-0077 (SB) & 050-0078 (NB)

SHEET 12 OF 25 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
46	(50-2HB)BRR	LASALLE	48	35
CONTRACT NO. 66R21				
ILLINOIS FED. AID PROJECT				

USER NAME =	DESIGNED - PDA	REVISED -
	CHECKED - PRR	REVISED -
PLOT SCALE =	DRAWN - MMY	REVISED -
PLOT DATE =	CHECKED - MJT	REVISED -



ELEVATION AT ABUT.

North abutment beam 1 shown, all other locations sim.

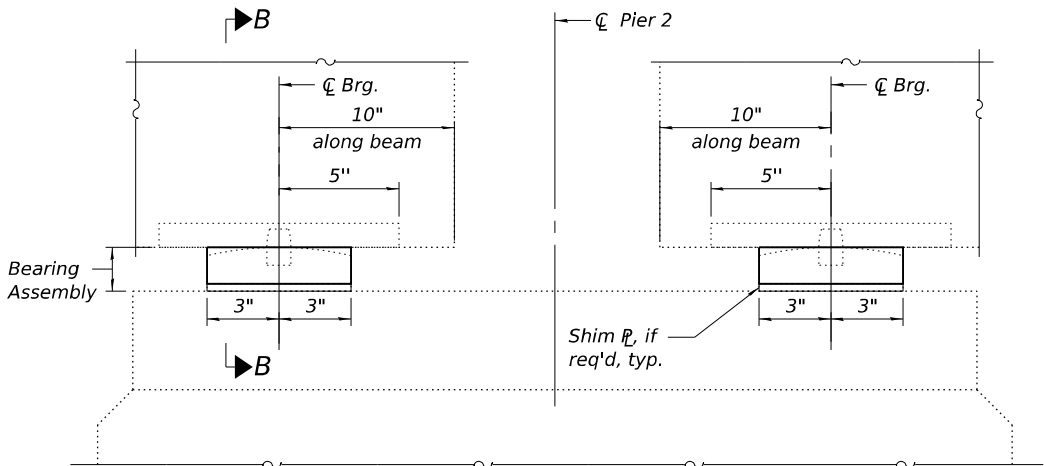
SECTION A-A

(All beams, both structures)

PLAN OF PLATE

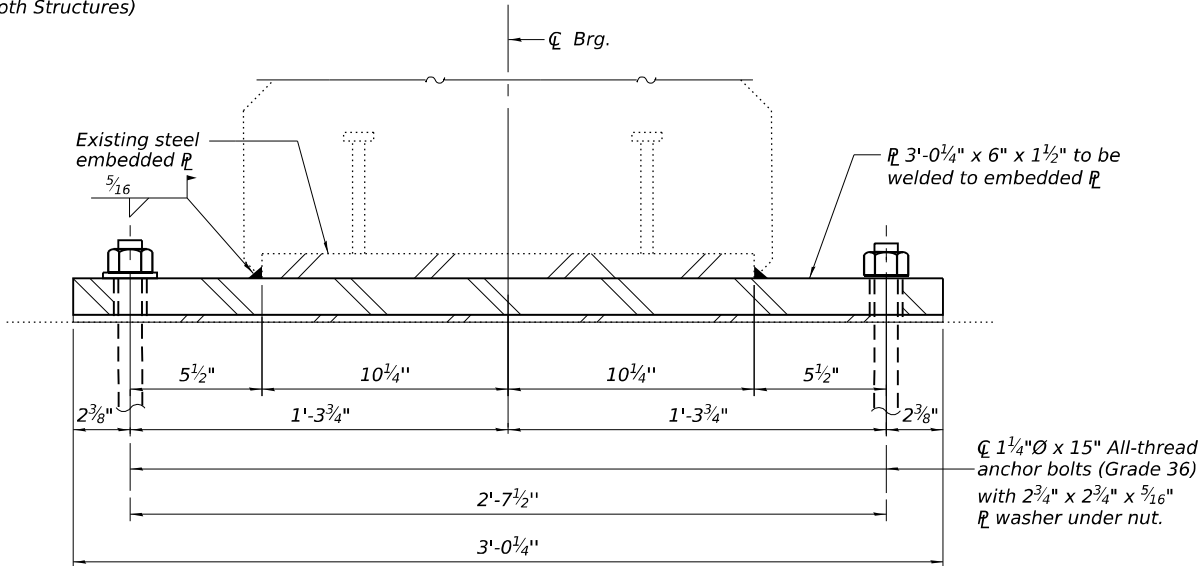
FIXED BEARINGS AT ABUTMENTS

(5 Required N.A., 5 Required S.A. - Both Structures)



ELEVATION AT PIER 2

Both Structures

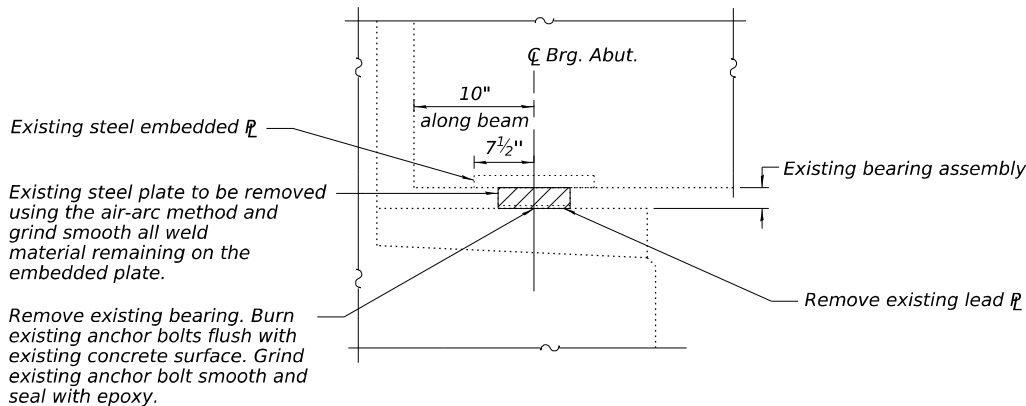


SECTION B-B

(All beams, both structures)

FIXED BEARINGS AT PIER 2

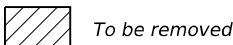
(6 Required each side of Pier 2 - Both Structures)



EXISTING FIXED BEARING REMOVAL DETAIL - ABUTMENTS

N. Abut. (NB) beam 1 shown, all other locations similar including South Abut., both structures.

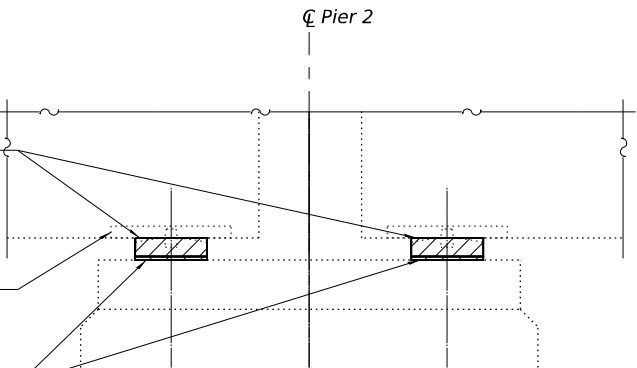
Cost included with Jack and Remove Existing Bearings.



Existing steel plate to be removed using the air-arc method and grind smooth all weld material remaining on the embedded plate.

Existing steel embedded $\bar{r}$, typ.

Remove existing bearings including $\frac{1}{8}$ " lead $\bar{r}$. Burn existing anchor bolts flush with existing concrete surface. Grind existing anchor bolt smooth and seal with epoxy.



EXISTING EXPANSION BEARING REMOVAL DETAILS

Pier 2 Both Structures

BEAM END REACTION TABLE

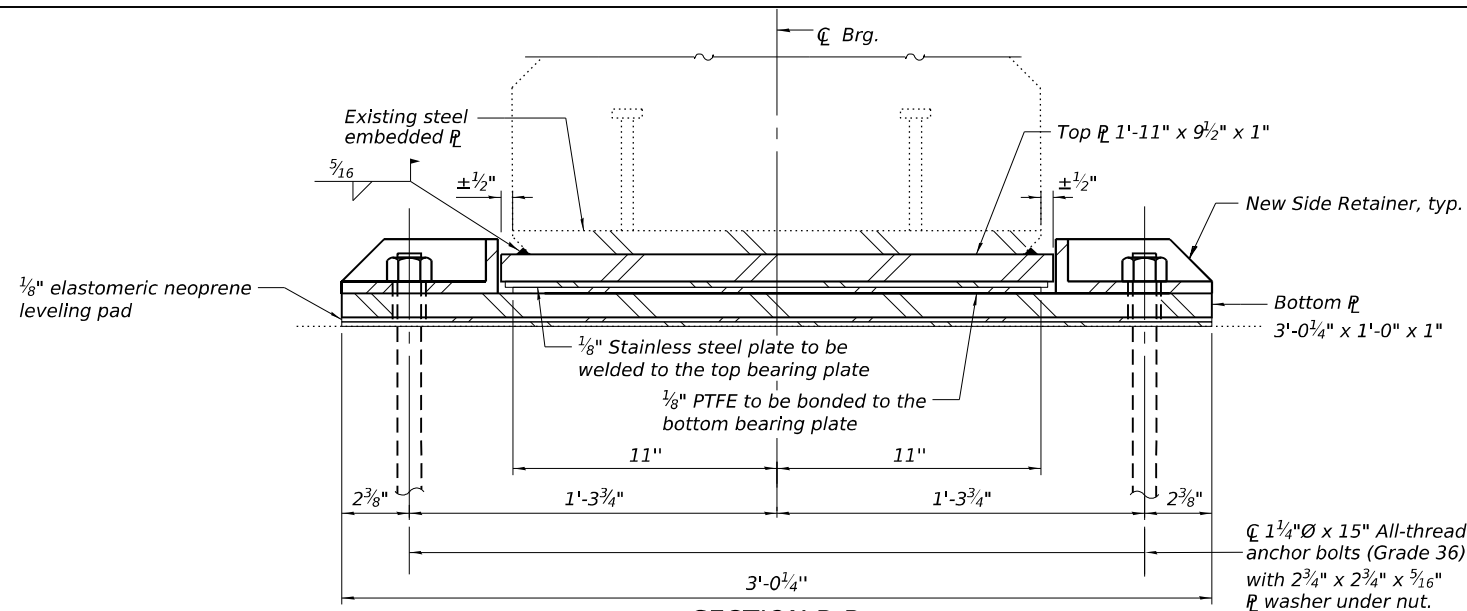
		Span 1	Span 2	Span 3	Span 4
R DL	(k)	35.3	47.7	47.7	35.3
R LL	(k)	40.2	35.3	35.3	40.2
Imp.	(k)	12.2	9.6	9.6	12.2
R (Total)	(k)	87.7	92.6	92.6	87.7

BILL OF MATERIAL

Item	Unit	Total
Furnishing and Erecting Structural Steel	Pound	4080
Jack & Remove Existing Bearings	Each	44
Anchor Bolts, 1 1/4"	Each	88

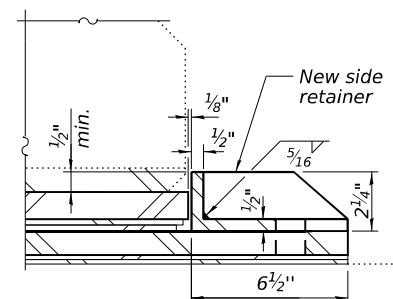
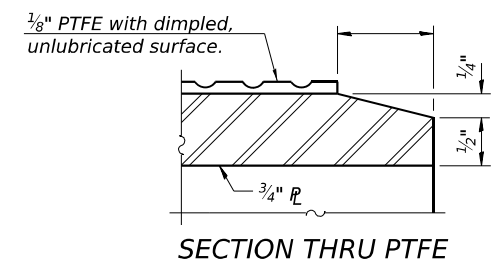
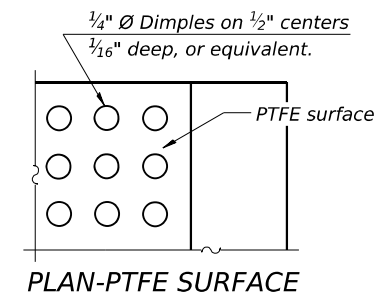
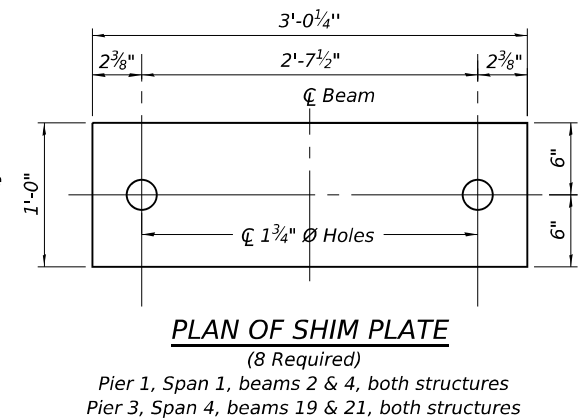
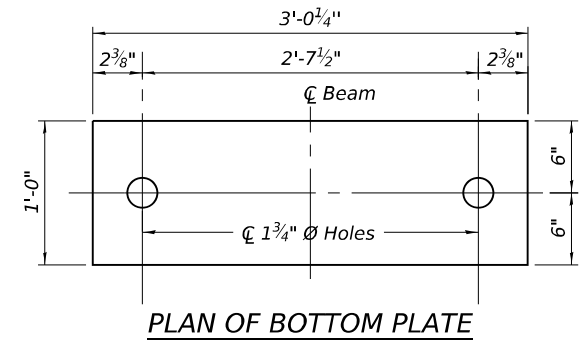
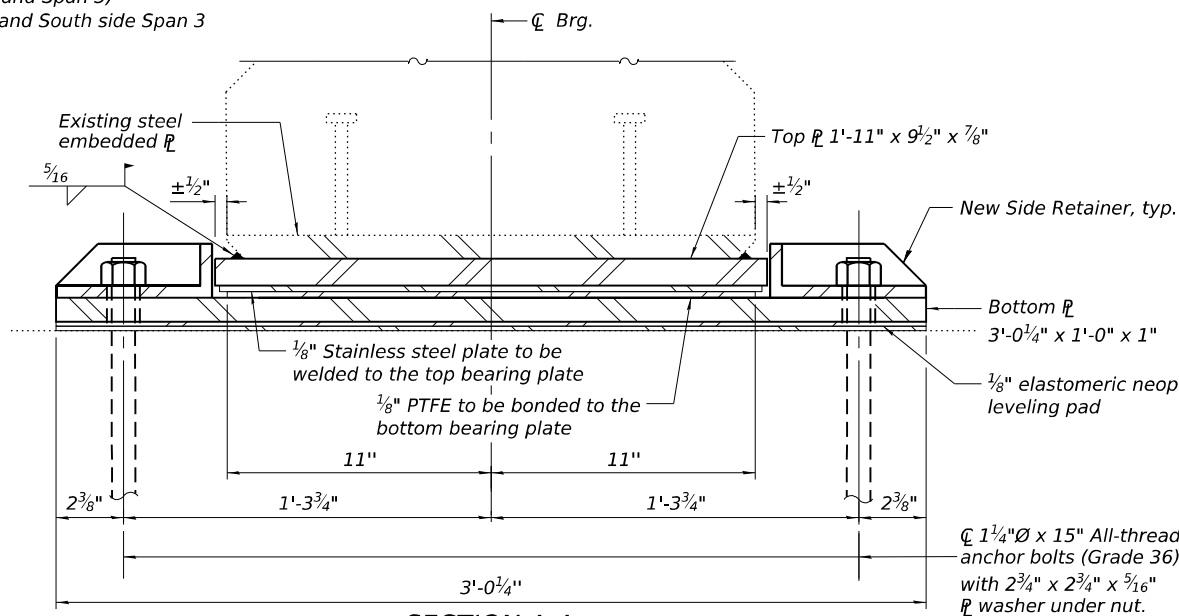
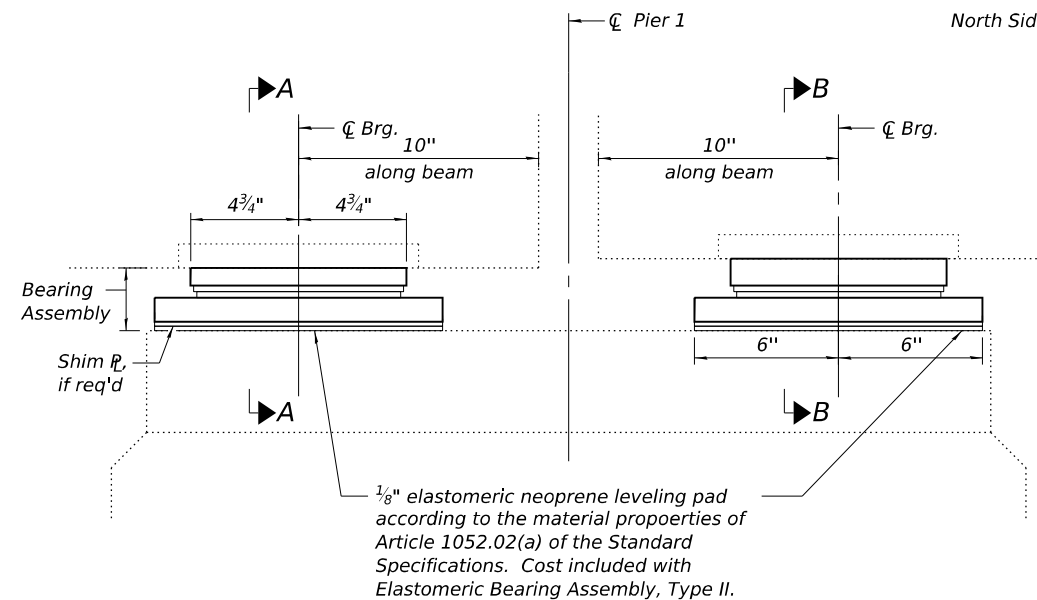
Notes:

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 = 66 Tons at Brg's of N & S Abutments - both structures.
Min. jack capacity = 70 Tons at Pier 2 - both structures.
Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified.
Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.
Stainless steel plates and shims shall be included in the cost of Furnishing and Erecting Structural Steel.
All exposed bearing plates and side retainers shall be hot dip galvanized according to AASHTO M111.
The structural steel plates of the Bearing Assembly for the abutments and pier 2 at both structures shall conform to the requirements of AASHTO M270 Grade 50.
The existing bearings contain lead plates. The Contractor shall take precautions to deal with the presence of lead on this project.
Two $\frac{1}{8}$ " adjusting shims shall be provided for each bearing in addition to all other plates and shims and placed as shown on bearing details.



SECTION B-B

(6 Required P1, 6 Required P3, Both Structures)
(Span 2 and Span 3)
North Side Span2 and South side Span 3



		<i>Span 1</i>	<i>Span 2</i>	<i>Span 3</i>	<i>Span 4</i>
<i>R DL</i>	(k)	35.3	47.7	47.7	35.3
<i>R LL</i>	(k)	40.2	35.3	35.3	40.2
<i>Imp.</i>	(k)	12.2	9.6	9.6	12.2
<i>R (Total)</i>	(k)	87.7	92.6	92.6	87.7

<i>Item</i>	<i>Unit</i>	<i>Total</i>
Elastomeric Bearing Assembly Type II	Each	44
Jack & Remove Existing Bearings	Each	44
Anchor Bolts, 1½"	Each	88

MODEL: Sheet
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PLOT DATE =

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DRAWN - MMY
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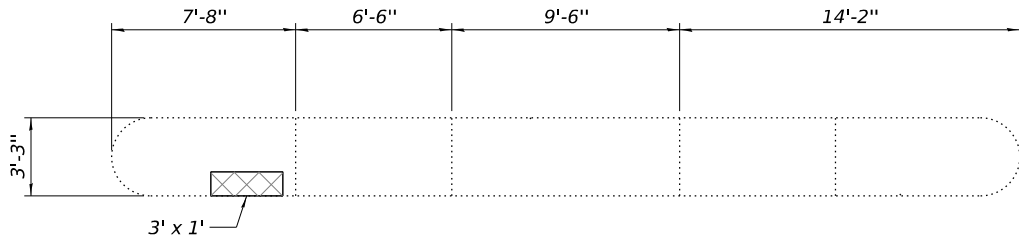
REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

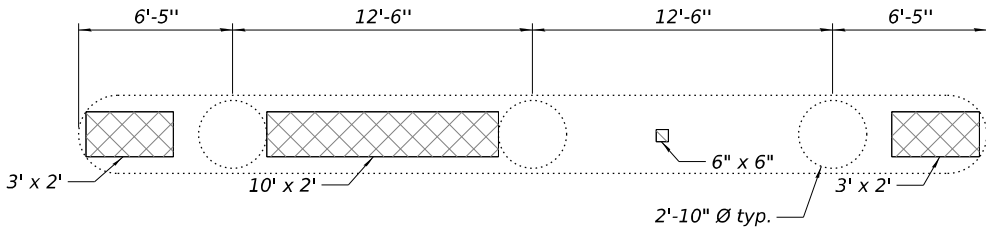
SUBSTRUCTURE REPAIR DETAILS - PIER 1
STRUCTURE NO. 050-0078 (NB)

SHEET 15 OF 25 SHEETS

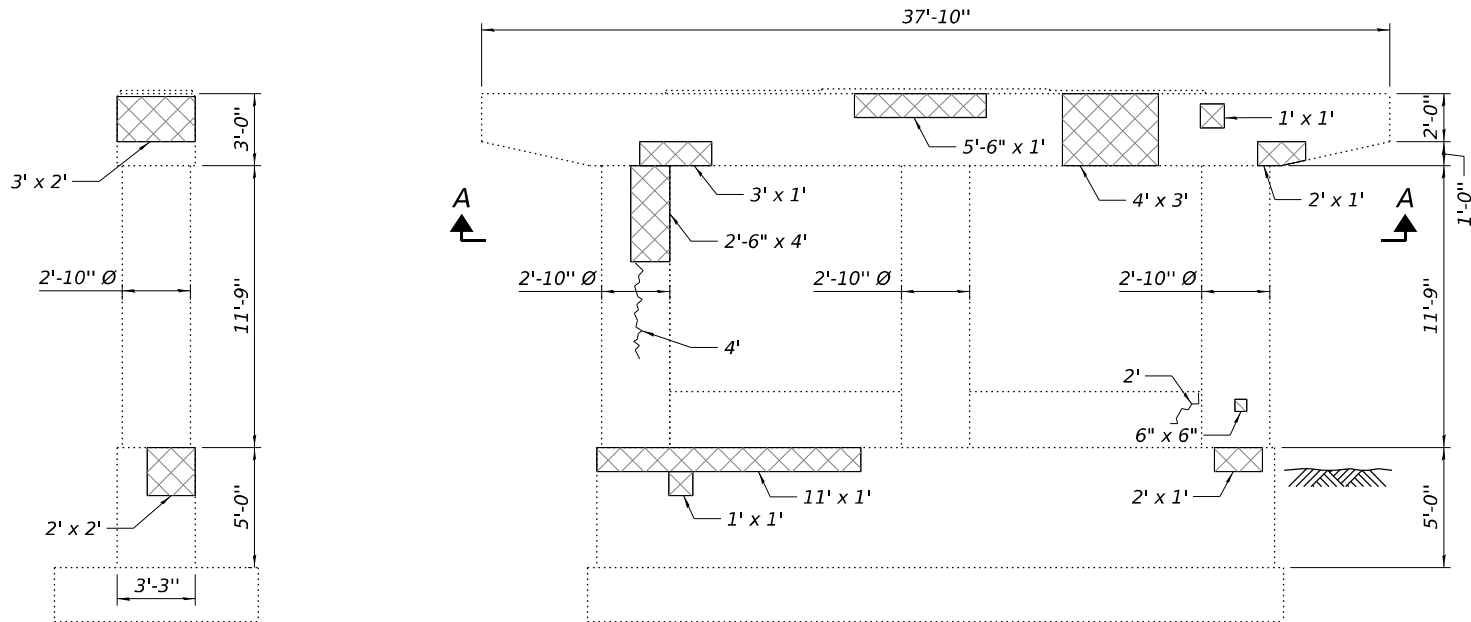
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
46	(50-2HB)BRR	LASALLE	48	38
CONTRACT NO. 66R21				
ILLINOIS		FED. AID PROJECT		



TOP OF CAP PLAN



VIEW A-A



WEST END

SOUTH FACE



Column 1



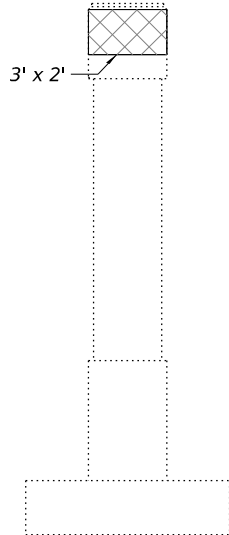
Column 2



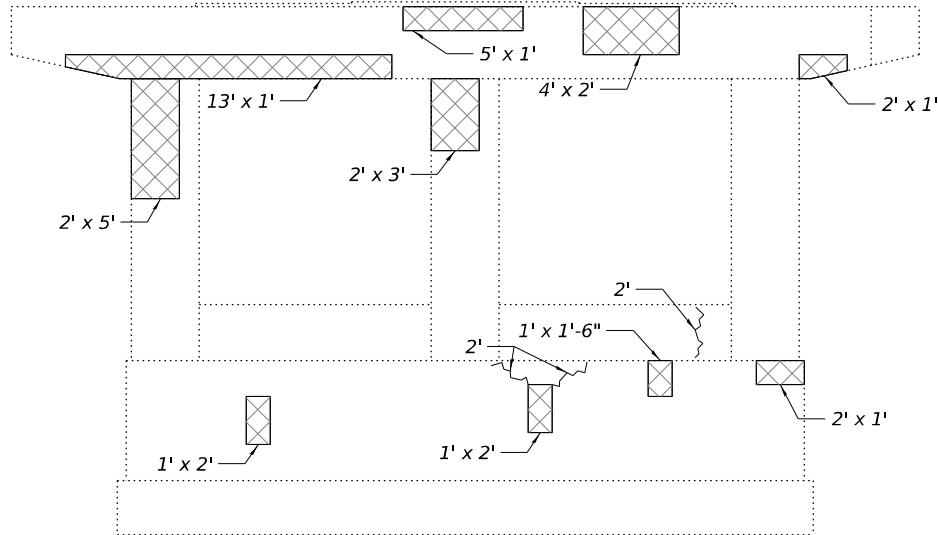
Column 3

PIER #1

SN 050-0078 (NB)



EAST END



NORTH FACE

LEGEND

- Epoxy Crack Injection
- Structural Repair of Concrete (Depth Equal to or less than 5 Inches)

BILL OF MATERIAL

Item	Unit	Total
Structural Repair of Concrete (Depth Equal to or less than 5 Inches)	Sq. Ft.	151
Epoxy Crack Injection	Foot	12

NOTES

- Repair of the existing substructure shall include but may not be limited to the areas shown. The actual area to be repaired will be determined by the Engineer at the time of construction.



Plan view of the bridge deck showing dimensions and reinforcement details. The deck is 24'-0" wide. The reinforcement layout includes:

- Two 8' x 1' reinforcement bars in the left half (12'-0" wide).
- A 1' x 1' reinforcement bar in the center.
- A 6' x 3' reinforcement bar in the right half (12'-0" wide).
- A 3' x 3' reinforcement bar in the right half (12'-0" wide).
- Dimensions: 6'-5" (left end), 12'-6" (left half), 12'-6" (right half), 6'-5" (right end).
- Reinforcement bars are labeled: 8' x 1', 1' x 1', 6' x 3', 3' x 3'.
- Reinforcement bars are labeled: 2'-10" Ø typ.

[illegible]

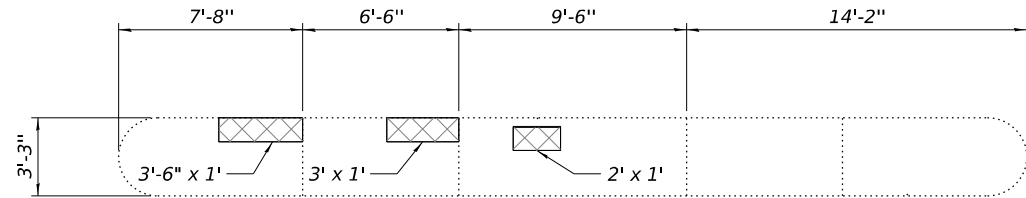
 Epoxy Crack Injection

 Structural Repair of Concrete
(Depth Equal to or less than 5 Inches)

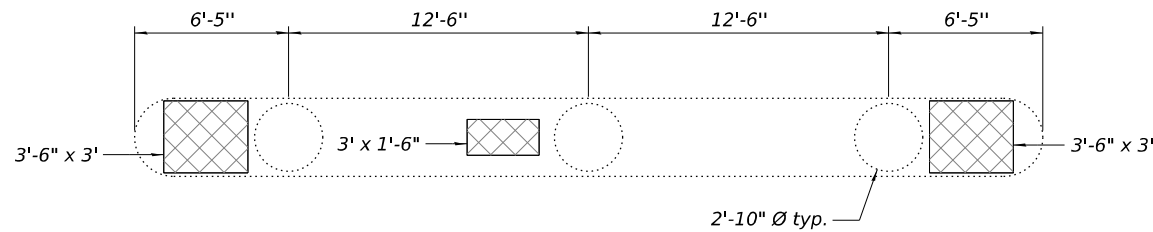
Item	Unit	Total
Structural Repair of Concrete (Depth Equal to or less than 5 Inches)	Sq. Ft.	103
Epoxy Crack Injection	Foot	12

1. Repair of the existing substructure shall include but may not be limited to the areas shown. The actual area to be repaired will be determined by the Engineer at the time of construction.

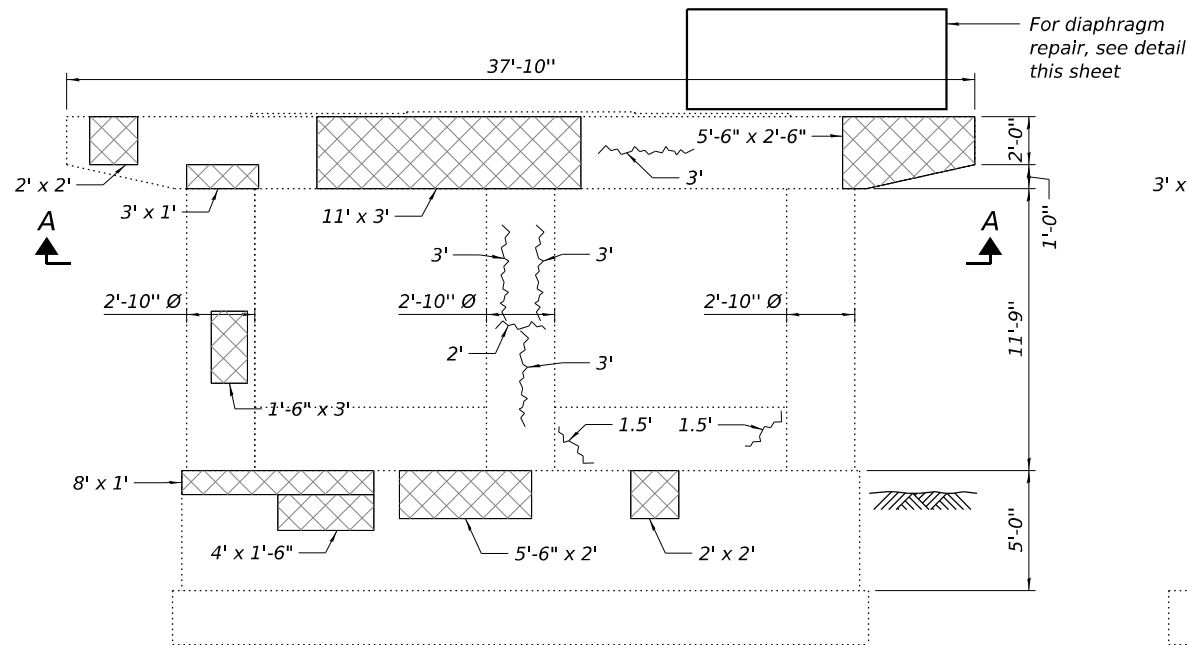
 KUHN & TRELLO CONSULTING ENGINEERS A Limited Liability Company 309 N. 7th Street, 3rd Floor Springfield, IL 62701 Phone: 217-679-0614 Professional Design Firm No. 184-006516	USER NAME =	DESIGNED - PDA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUBSTRUCTURE REPAIR DETAILS - PIER 2 STRUCTURE NO. 050-0078 (NB)	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED - PRR	REVISED -			46	(50-2HB)BRR	LASALLE	48	39
	PLOT SCALE =	DRAWN - MMY	REVISED -			CONTRACT NO. 66R21				
	PLOT DATE =	CHECKED - MJT	REVISED -			SHEET 16 OF 25 SHEETS				
						ILLINOIS		FED. AID PROJECT		



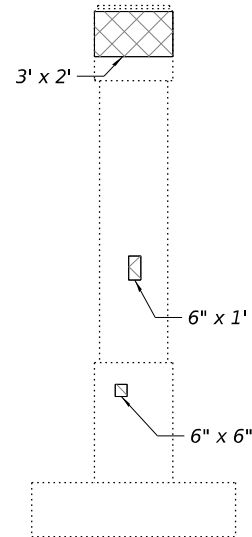
TOP OF CAP PLAN



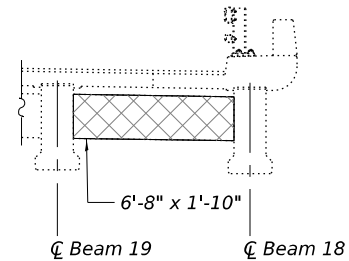
VIEW A-A



SOUTH FACE

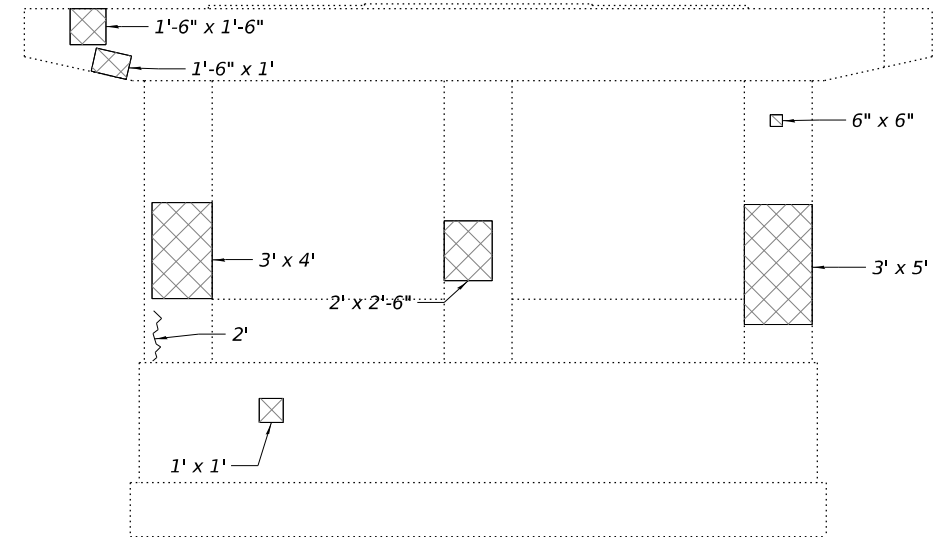


EAST END



DIAPHRAGM REPAIR DETAIL

(South east end of Pier 3 - looking North)
(South fascia of diaphragm shown)
(See Sheet 1 of 25 for location)



NORTH FACE

LEGEND

- Epoxy Crack Injection
- Structural Repair of Concrete
(Depth Equal to or less than 5 Inches)

BILL OF MATERIAL

Item	Unit	Total
Structural Repair of Concrete (Depth Equal to or less than 5 Inches)	Sq. Ft.	181
Epoxy Crack Injection	Foot	19

NOTES

- Repair of the existing substructure shall include but may not be limited to the areas shown.
The actual area to be repaired will be determined by the Engineer at the time of construction.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBSTRUCTURE REPAIR DETAILS - PIER 3
STRUCTURE NO. 050-0078 (NB)

SHEET 17 OF 25 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
46	(50-2HB)BRR	LASALLE	48	40
CONTRACT NO. 66R21				
ILLINOIS FED. AID PROJECT				

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KUHN & TRELLO
CONSULTING ENGINEERS
A Limited Liability Company
109 N. 7th Street, 3rd Floor
Springfield, IL 62701
Phone: 217-698-0844
Professional Design Firm No. 184-006556

USER NAME =	DESIGNED - PDA	REVISED -
	CHECKED - PRR	REVISED -
PLOT SCALE =	DRAWN - MMY	REVISED -
PLOT DATE =	CHECKED - MJT	REVISED -

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USER NAME =
PLOT SCALE =
PLOT DATE =

DESIGNED - PDA
CHECKED - PRR
DRAWN - MMY
CHECKED - MJT

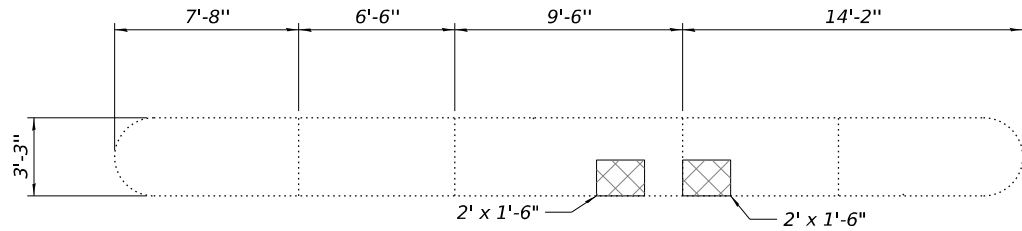
REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

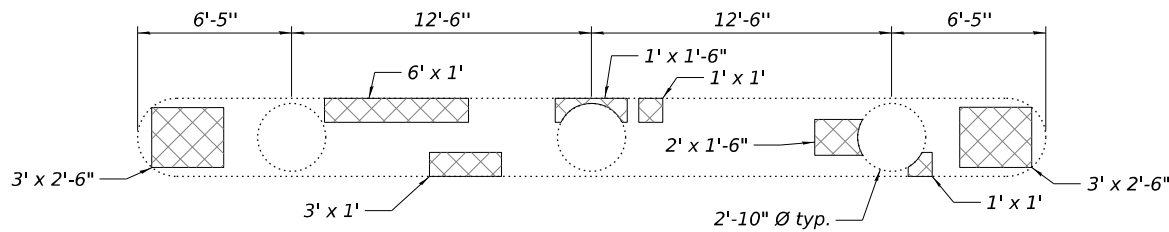
SUBSTRUCTURE REPAIR DETAILS - PIER 1
STRUCTURE NO. 050-0077 (SB)

SHEET 18 OF 25 SHEETS

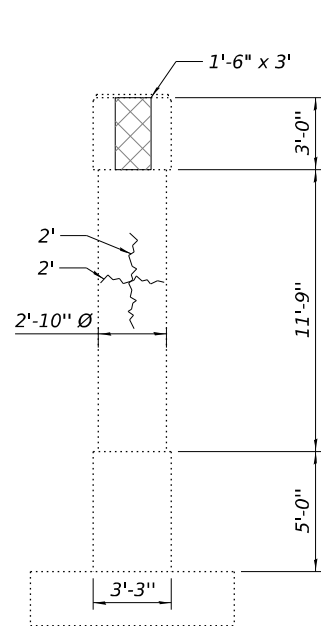
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
46	(50-2HB)BRR	LASALLE	48	41
CONTRACT NO. 66R21				
ILLINOIS FED. AID PROJECT				



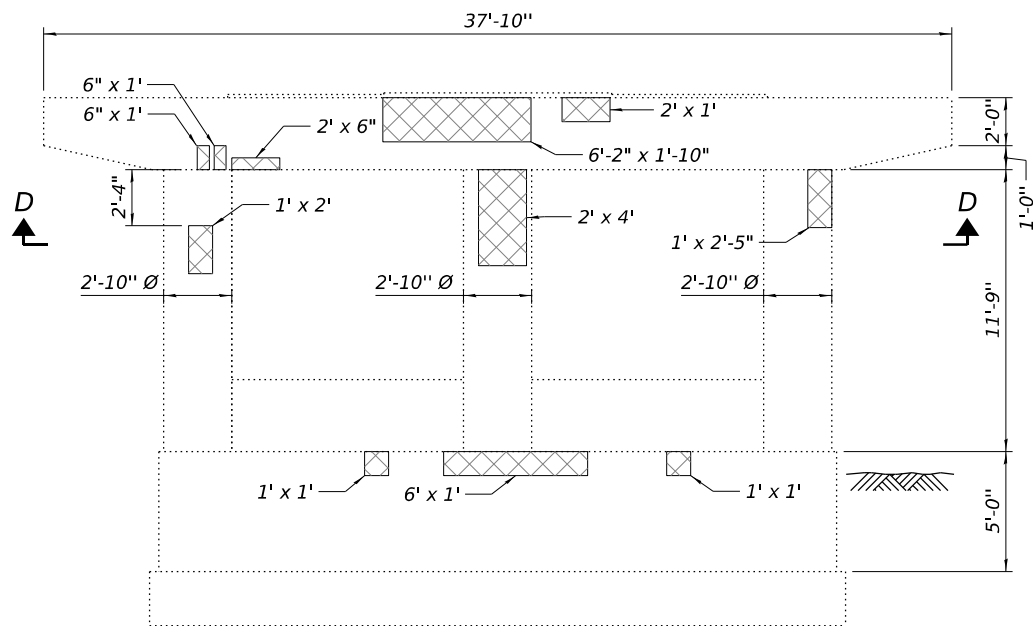
TOP OF CAP PLAN



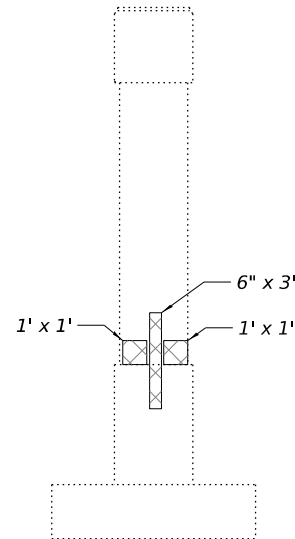
VIEW D-D



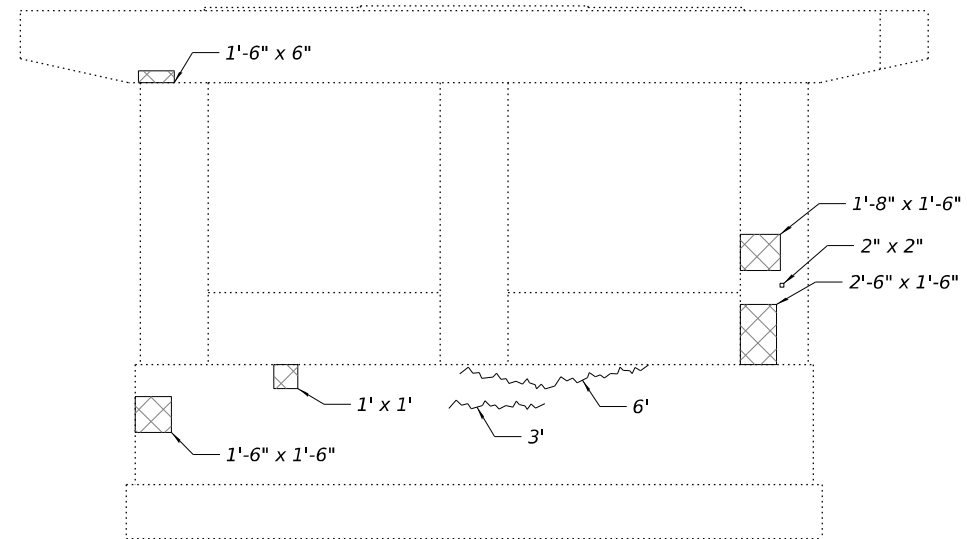
WEST END



SOUTH FACE



EAST END



NORTH FACE



Column 1



Column 2



Column 3

PIER #1

SN 050-0077 (SB)

NOTES

1. Repair of the existing substructure shall include but may not be limited to the areas shown.
The actual area to be repaired will be determined by the Engineer at the time of construction.

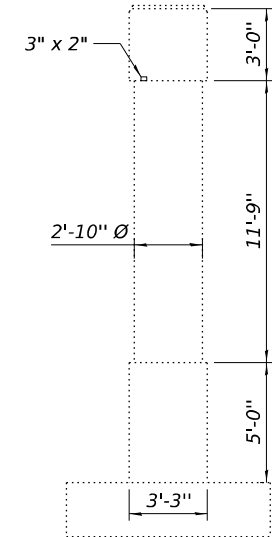
LEGEND

- Epoxy Crack Injection
- Structural Repair of Concrete (Depth Equal to or less than 5 Inches)

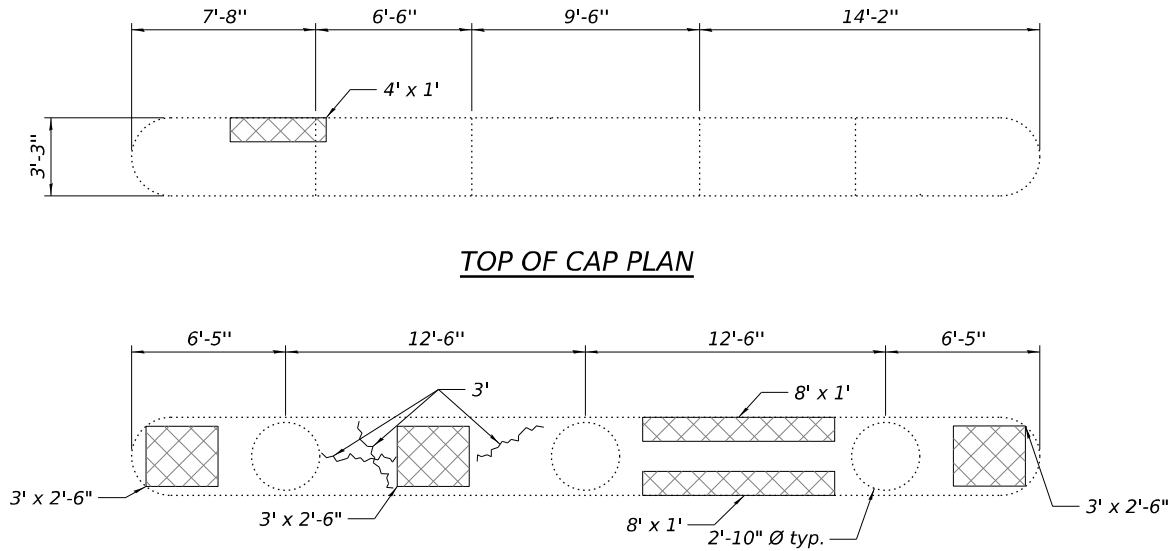
BILL OF MATERIAL

Item	Unit	Total
Structural Repair of Concrete (Depth Equal to or less than 5 Inches)	Sq. Ft.	92
Epoxy Crack Injection	Foot	13

MODEL: Sheet
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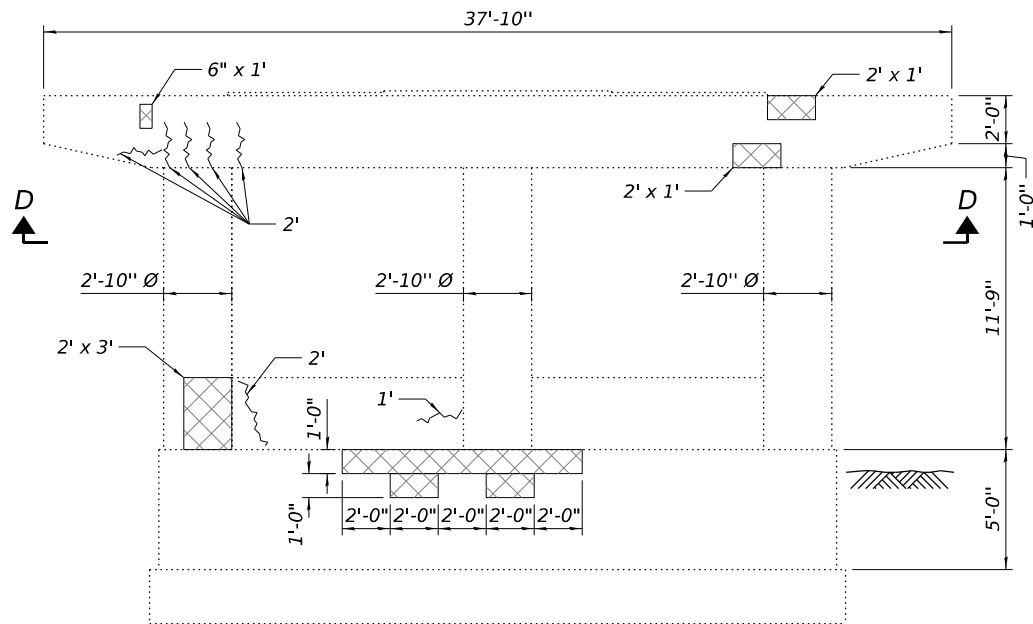


WEST END



TOP OF CAP PLAN

VIEW D-D



SOUTH FACE



Column 1



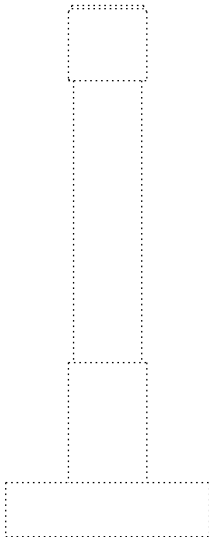
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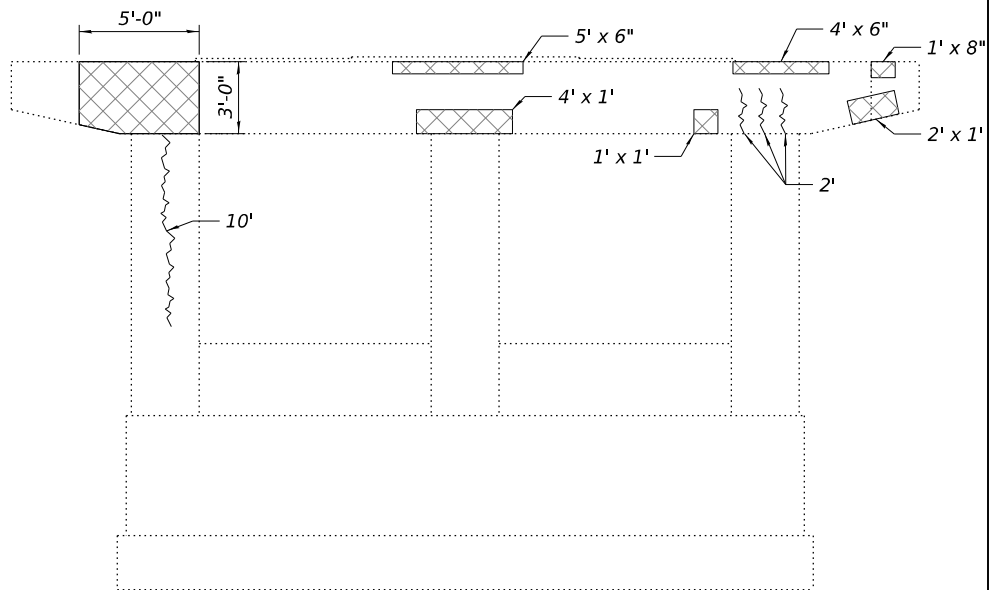
Column 3

PIER #2

SN 050-0077 (SB)



EAST END



NORTH FACE

LEGEND

- ~ Epoxy Crack Injection
- ▨ Structural Repair of Concrete
(Depth Equal to or less than 5 Inches)

BILL OF MATERIAL

Item	Unit	Total
Structural Repair of Concrete (Depth Equal to or less than 5 Inches)	Sq. Ft.	95
Epoxy Crack Injection	Foot	38

NOTES

- Repair of the existing substructure shall include but may not be limited to the areas shown.
The actual area to be repaired will be determined by the Engineer at the time of construction.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

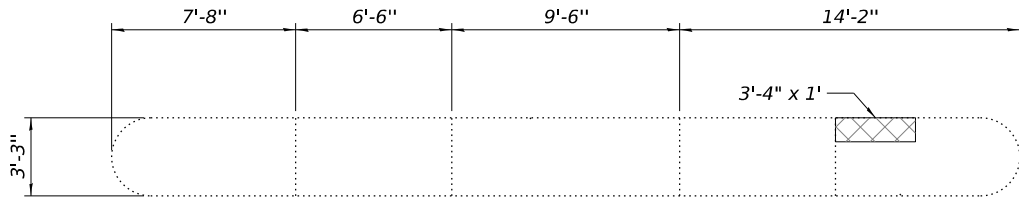
SUBSTRUCTURE REPAIR DETAILS - PIER 2
STRUCTURE NO. 050-0077 (SB)

SHEET 19 OF 25 SHEETS

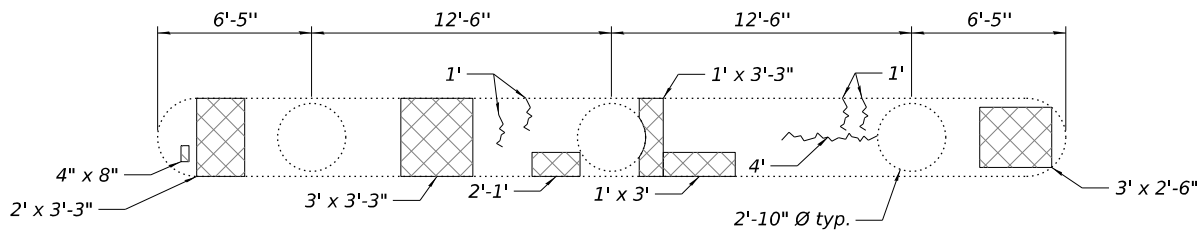
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
46	(50-2HB)BRR	LASALLE	48	42
CONTRACT NO. 66R21				
ILLINOIS FED. AID PROJECT				

K T KUHN & TRELLO
CONSULTING ENGINEERS
A Limited Liability Company
109 N. 7th Street, 3rd Floor
Springfield, IL 62761
Phone: 217-678-0044
Professional Design Firm No. 184-006556

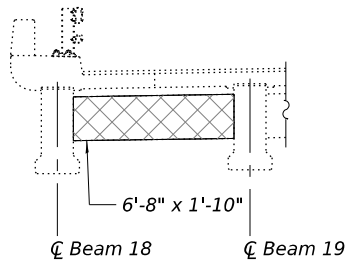
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PLOT DATE =	CHECKED - MJT	REVISED -



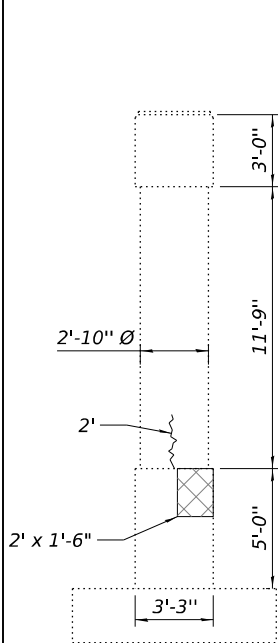
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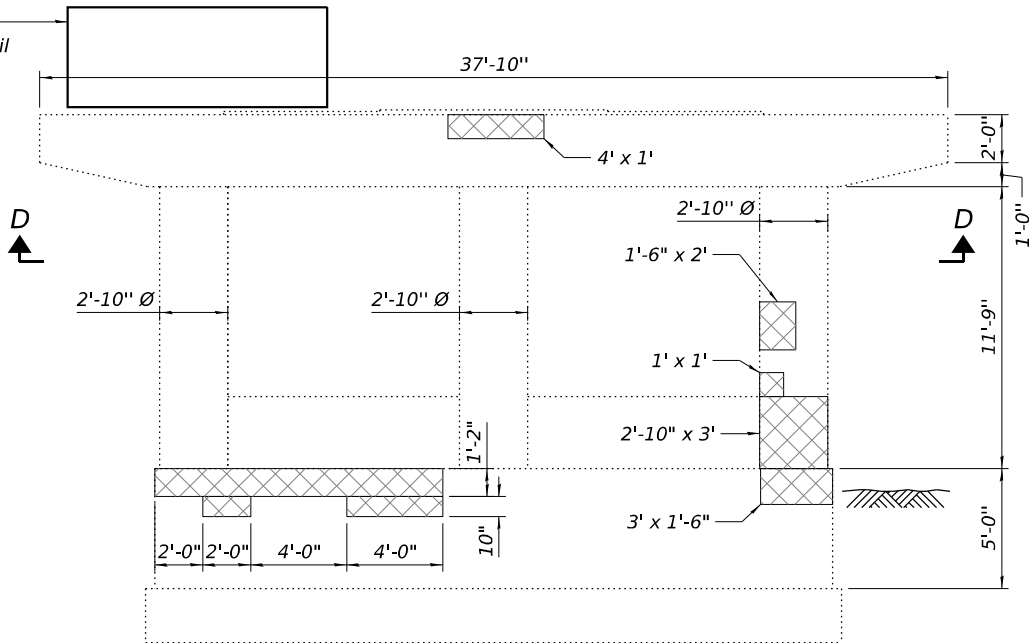
VIEW D-D



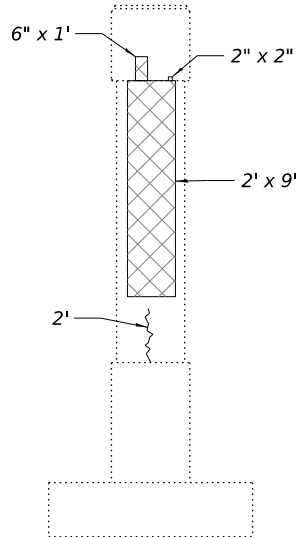
DIAPHRAGM REPAIR DETAIL
(South west end of Pier 3 - looking North)
(South fascia of diaphragm shown)
(See Sheet 1 of 25 for location)



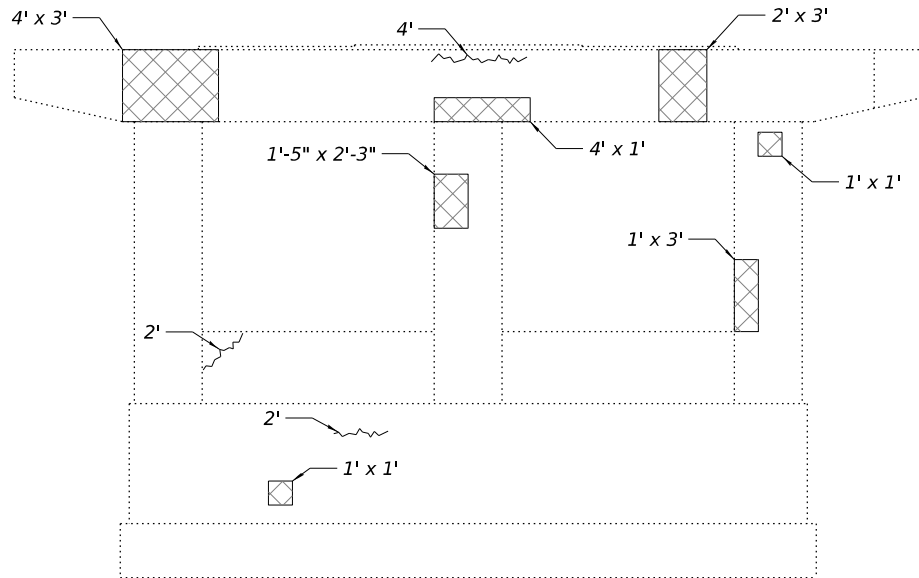
WEST END



SOUTH FACE



EAST END



NORTH FACE



Column 1



Column 2



Column 3

PIER #3

SN 050-0077 (SB)

NOTES

1. Repair of the existing substructure shall include but may not be limited to the areas shown.
The actual area to be repaired will be determined by the Engineer at the time of construction.

LEGEND

- ~ Epoxy Crack Injection
[Hatched Box] Structural Repair of Concrete
(Depth Equal to or less than 5 Inches)

BILL OF MATERIAL

Item	Unit	Total
Structural Repair of Concrete (Depth Equal to or less than 5 Inches)	Sq. Ft.	141
Epoxy Crack Injection	Foot	20

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBSTRUCTURE REPAIR DETAILS - PIER 3
STRUCTURE NO. 050-0077 (SB)

SHEET 20 OF 25 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
46	(50-2HB)BRR	LASALLE	48	43
CONTRACT NO. 66R21				
ILLINOIS FED. AID PROJECT				



*Beam End
Repair Typ.*

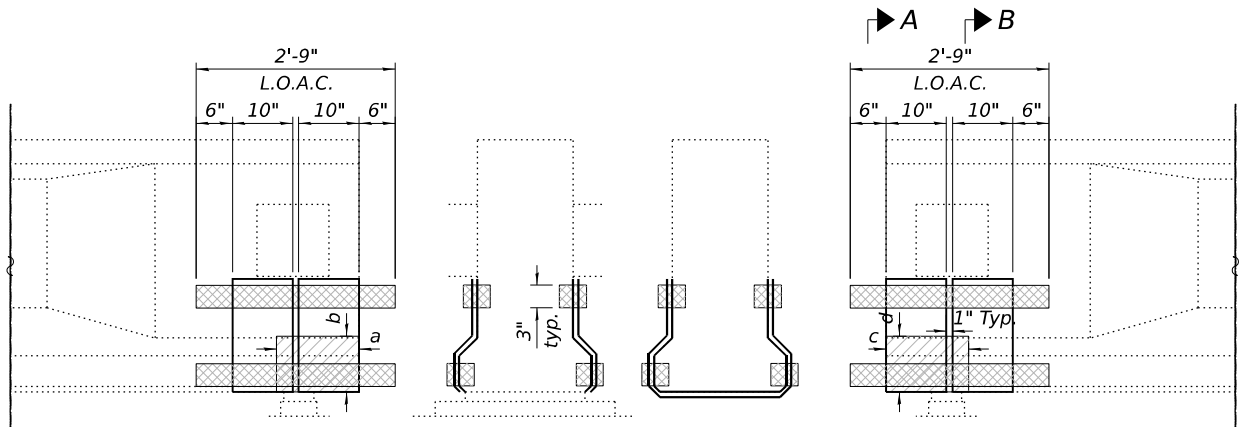
DETAIL 4 050-0078										
South Bm Ends	a	b	c	d	e	f	g	h	i	j
5	20"	15"	10"	10"	22"	10"	10"	5"	20"	6"
6	15"	15"	10"	10"	22"	20"	10"	10"	25"	6"
North Bm Ends										
5	25"	6"	20"	6"	0	0	12"	24"	30"	5"
10	15"	10"	15"	10"	22"	10"	12"	15"	10"	0
050-0077										
South Bm Ends	a	b	c	d	e	f	g	h	i	j
6	15"	6"	10"	10"	22"	10"	10"	10"	10"	0
7	0	0	10"	10"	22"	10"	12"	12"	20"	0
11	10"	10"	10"	6"	22"	10"	12"	12"	20"	0
17	10"	10"	15"	10"	22"	25"	10"	15"	25"	6"
North Bm Ends										
2	20"	6"	20"	6"	0	0	22"	10"	20"	0
4	20"	6"	25"	6"	0	0	22"	15"	20"	0
5	10"	6"	20"	6"	0	0	22"	15"	20"	0
6	15"	10"	15"	10"	22"	10"	11"	10"	10"	0

- Precast Prestressed Concrete I-Beam Repair
- Horizontal Anchorage Strip (Wrap onto end of beam, typ.)
- FRP with fibers oriented vertically. Fiber wrap shall bend to follow beam contours. Typ.

L.O.A.C. Limits of acrylic coating



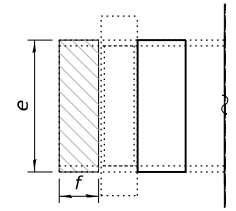
(Sheet 1 of 5)



WEST FACE FOR S. BEAM ENDS
EAST FACE FOR N. BEAM ENDS

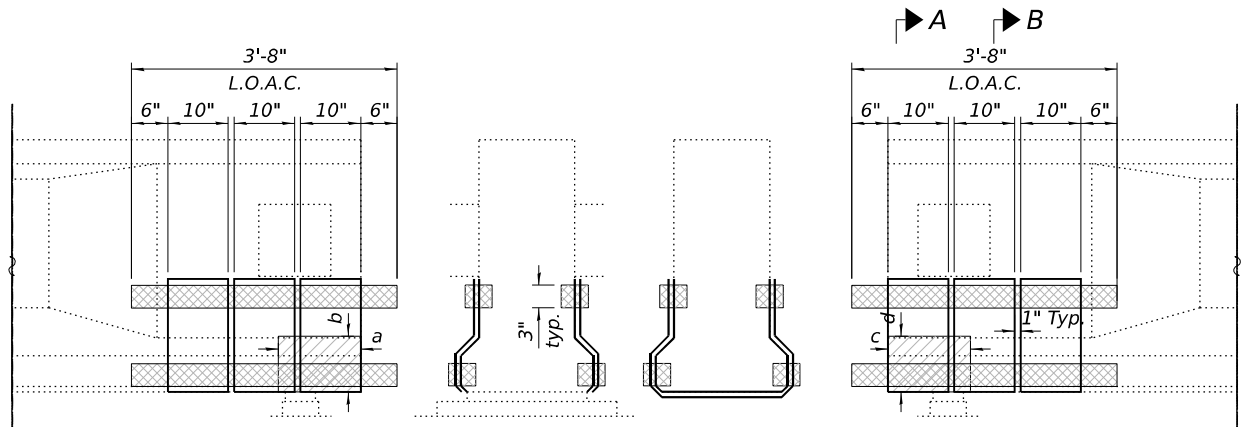
SECTION A-A SECTION B-B

EAST FACE FOR S. BEAM ENDS
WEST FACE FOR N. BEAM ENDS



BOTTOM FACE

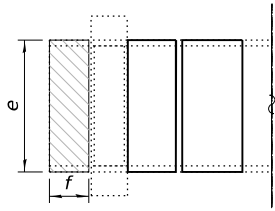
BEAM END REPAIR
DETAIL 1



WEST FACE FOR S. BEAM ENDS
EAST FACE FOR N. BEAM ENDS

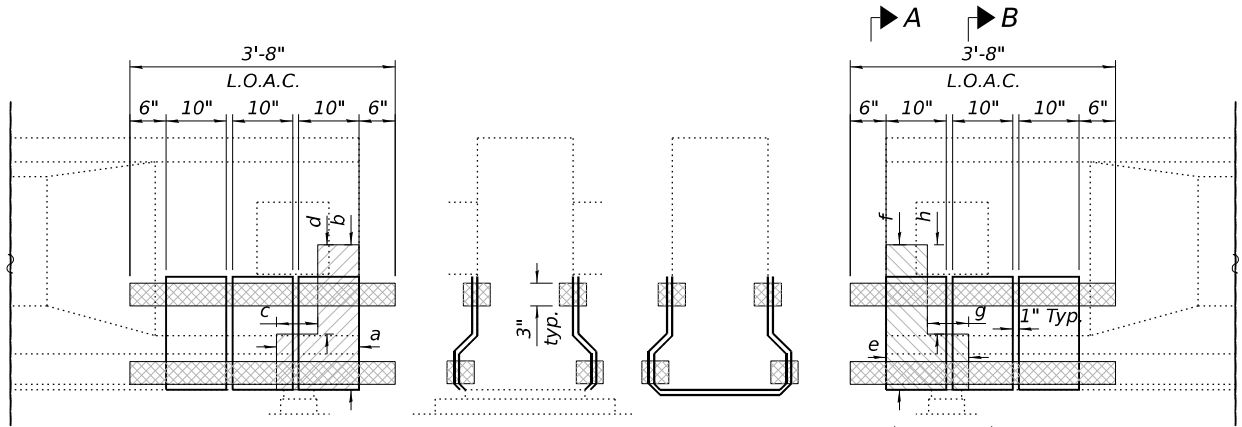
SECTION A-A SECTION B-B

EAST FACE FOR S. BEAM ENDS
WEST FACE FOR N. BEAM ENDS



BOTTOM FACE

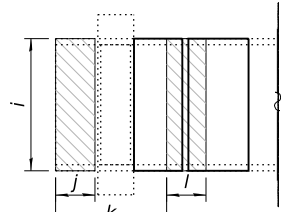
BEAM END REPAIR
DETAIL 2



WEST FACE FOR S. BEAM ENDS
EAST FACE FOR N. BEAM ENDS

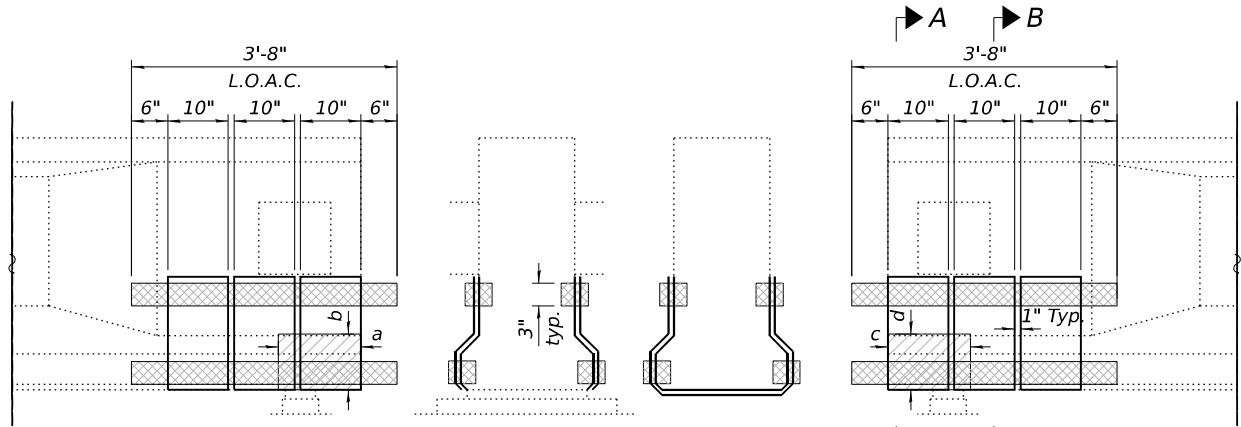
SECTION A-A SECTION B-B

EAST FACE FOR S. BEAM ENDS
WEST FACE FOR N. BEAM ENDS



BOTTOM FACE

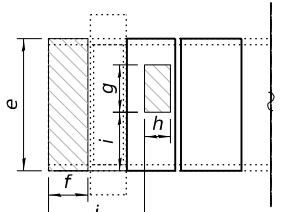
BEAM END REPAIR
DETAIL 3



WEST FACE FOR S. BEAM ENDS
EAST FACE FOR N. BEAM ENDS

SECTION A-A SECTION B-B

EAST FACE FOR S. BEAM ENDS
WEST FACE FOR N. BEAM ENDS



BOTTOM FACE

BEAM END REPAIR
DETAIL 4

- LEGEND**
- Precast Prestressed Concrete I-Beam Repair
 - Horizontal Anchorage Strip (Wrap onto end of beam, typ.)
 - FRP with fibers oriented vertically. Fiber wrap shall bend to follow beam contours. Typ.

L.O.A.C. Limits of acrylic coating

(Sheet 2 of 5)

MODEL: Sheet
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CONSULTING ENGINEERS
A Limited Liability Company
109 N. 7th Street, 2nd Floor
Springfield, IL 62761
Phone: 217-678-0054
Professional Design Firm No. 284-006556

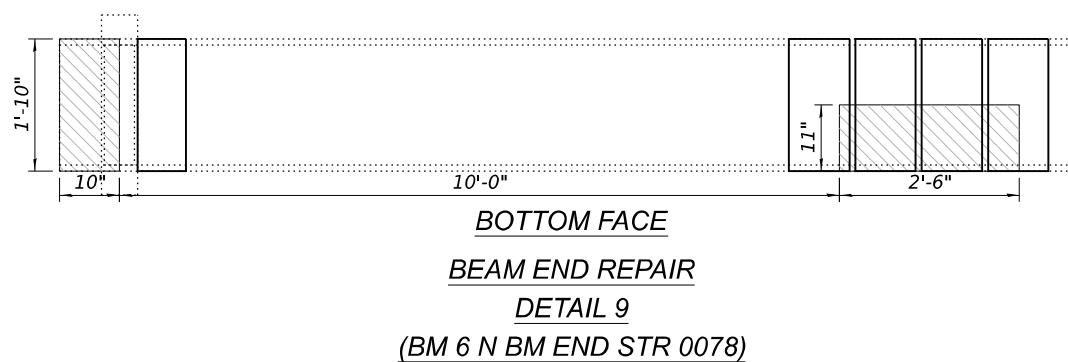
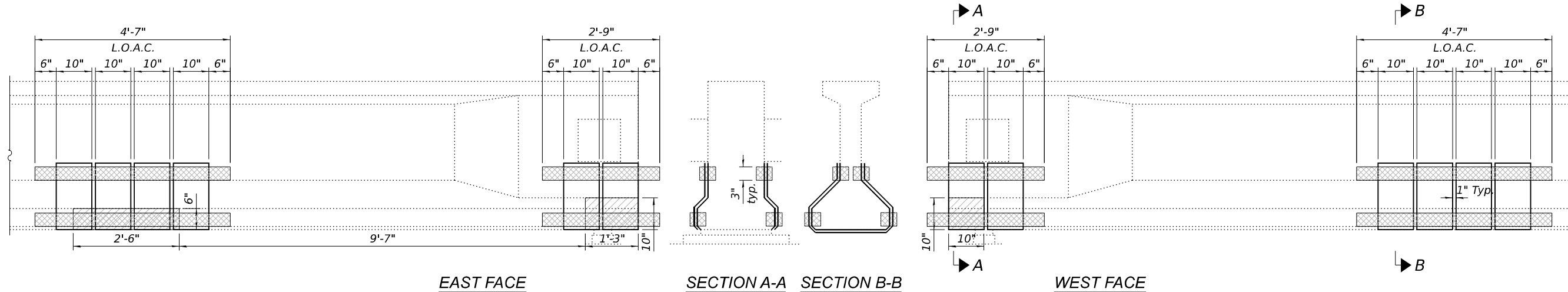
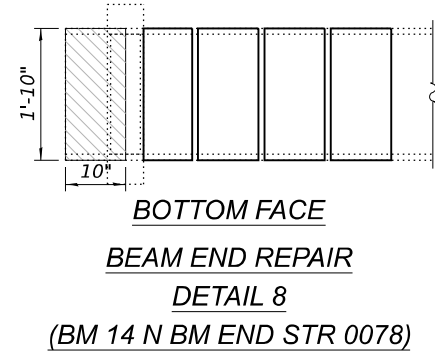
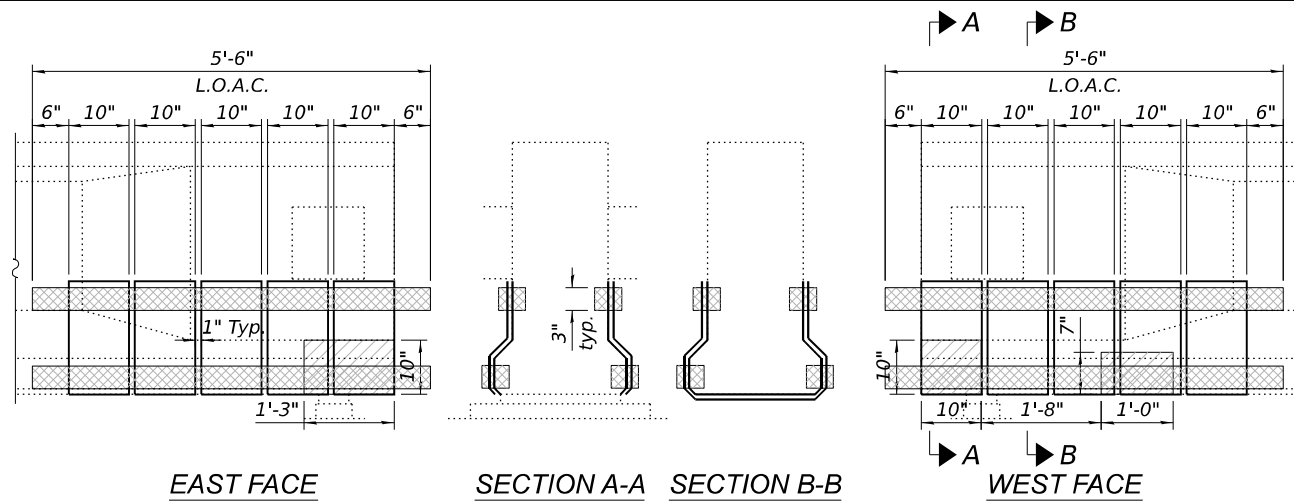
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PLOT DATE =	CHECKED - MJT	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEAM REPAIR DETAILS
STRUCTURE NO. 050-0077 (SB) & 050-0078 (NB)

SHEET 22 OF 25 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
46	(50-2HB)BRR	LASALLE	48	45
CONTRACT NO. 66R21				
ILLINOIS FED. AID PROJECT				



- LEGEND**
- Precast Prestressed Concrete I-Beam Repair
 - Horizontal Anchorage Strip (Wrap onto end of beam, typ.)
 - FRP with fibers oriented vertically. Fiber wrap shall bend to follow beam contours. Typ.

L.O.A.C. Limits of acrylic coating

(Sheet 4 of 5)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEAM REPAIR DETAILS
STRUCTURE NO. 050-0077 (SB) & 050-0078 (NB)

SHEET 24 OF 25 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
46	(50-2HB)BRR	LASALLE	48	47
CONTRACT NO. 66R21				
ILLINOIS FED. AID PROJECT				

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K T
KUHN & TRELLO
CONSULTING ENGINEERS
A Limited Liability Company
109 N. 7th Street, 2nd Floor
Springfield, IL 62761
Phone: 217-678-0044
Professional Design Firm No. 284-006556

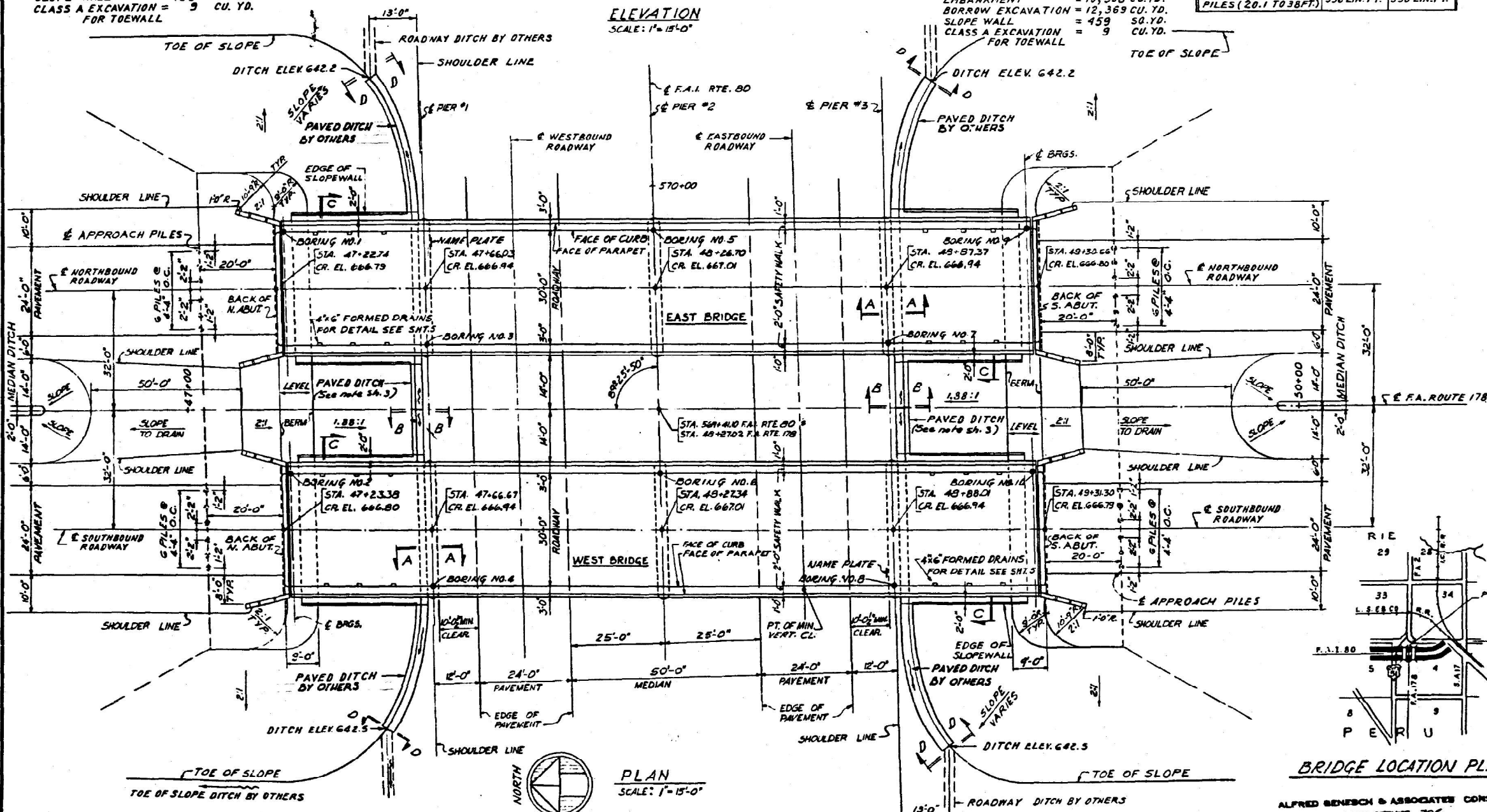
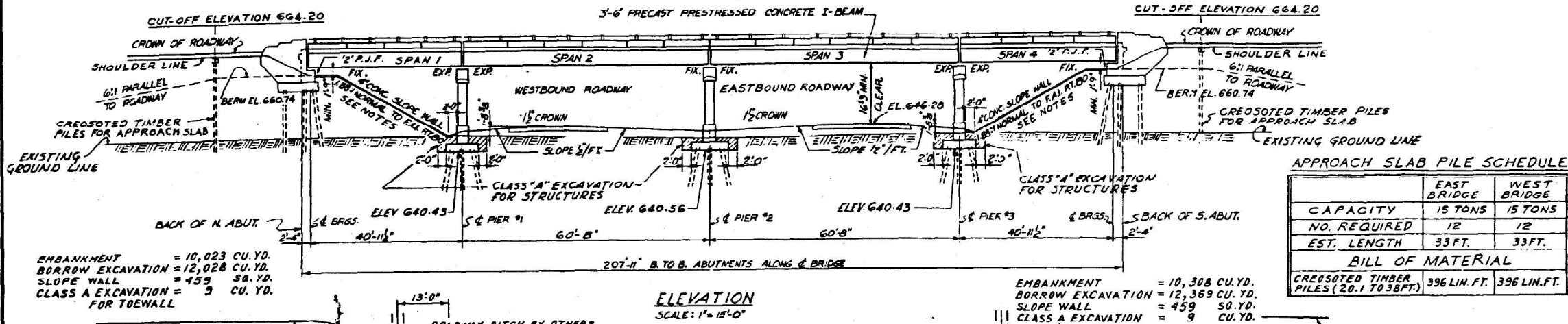
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	CHECKED - PRR	REVISED -
PLOT SCALE =	DRAWN - MMY	REVISED -
PLOT DATE =	CHECKED - MJT	REVISED -

FOR INFORMATION ONLY

B.M. # 1: ELEV. 652.64
R.R. SPIKE IN 12" CATALPA 100' LT. OF F.A.I. RTE. 80 STA. 556+26
B.M. # 5A: ELEV. 641.53
SPIKE IN POWER POLE 45' RT. OF F.A.I. RTE. 178 STA. 40+24

ROUTE NO.	SECTION	COUNTY	TO STA.	FROM STA.
FAI 80	50-2HB	LA SALLE	22	2
STA.	TO STA.			
8 P.R. REG. NO. 4	ILLINOIS	PROJECT	17-80-30176	

INDEX OF SHEETS	
SHEET NO.	TITLE
1	TITLE SHEET
2A	GENERAL PLAN AND ELEVATION, TYPICAL SECTIONS
3	GENERAL NOTES, NAME PLATES AND QUANTITIES
4	BORINGS
5	DECK REINFORCEMENT PLAN
6	DECK CROSS SECTIONS AND DIAPHRAGM DETAILS
7	DETAILS OF 42 IN. PRECAST PRESTRESSED CONCRETE I-BEAMS
8	FRAMING PLAN AND BEARING DETAILS
9	HANDRAIL DETAILS
10	NORTH AND SOUTH ABUTMENT AND WINGWALL DETAILS
11	PIERS 1, 2 AND 3
12	REINFORCEMENT BAR LISTS
13	ABUTMENT PILES
14	TOP OF SLAB ELEVATIONS
15	ROAD PLAN AND PROFILE, FA 178
16	ROAD PLAN AND PROFILE, FAI 80
17	CROSS SECTIONS
18	STANDARDS 2113, 2114, 1971-2
19	STANDARD 2153-1
20-22	CROSS SECTIONS



ROAD CLASSIFICATION		
D.H.V.	TYPE	M.P.H.
1095	T	70
DESIGN LOAD		
L.L. H80-S16-44		
FUTURE D.L. 1/2 BIT. WEARING SURFACE		
DESIGN STRESSES		
CONCRETE (CAST IN PLACE)		
f _c = 3500 LBS. PER SQ. IN.		
f _c = 1400 LBS. PER SQ. IN.		
f _c (WITH EARTH PRESSURE) 1000 LBS. PER SQ. IN.		
f _c (PIER FOOTING) 75 LBS. PER SQ. IN.		
PRESTRESSED CONCRETE		
f _c = 5000 LBS. PER SQ. IN.		
f _c = 4000 LBS. PER SQ. IN.		
f _c = 2000 LBS. PER SQ. IN.		
REINFORCING STEEL		
f _s = 20,000 LBS. PER SQ. IN.		
PRETENSIONING STEEL		
f _{su} = 240,000 LBS. PER SQ. IN.		
f _{su} = 173,600 LBS. PER SQ. IN.		
PILE LOADS		
ABUTMENT = 30 TONS (CONCRETE)		
AND WINGWALLS = 15 TONS (TIMBER)		
APPROACH SLAB = 20 TONS (TIMBER)		
PIERS = 20 TONS (TIMBER)		

BRIDGE LOCATION PLAN

ALFRED BENESCH & ASSOCIATES CONSULTING ENGINEERS
16 SOUTH WABASH AVENUE 706 CHICAGO, ILLINOIS

GENERAL PLAN AND ELEVATION
GRADE SEPARATION
F.A. ROUTE 178
OVER F.A.I. ROUTE 80
F.A.I. PROJECT 178-30176
LA SALLE COUNTY
STATION 569+41.10

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS - FOR INFORMATION ONLY
STRUCTURE NO. 050-0077 (SB) & 050-0078 (NB)

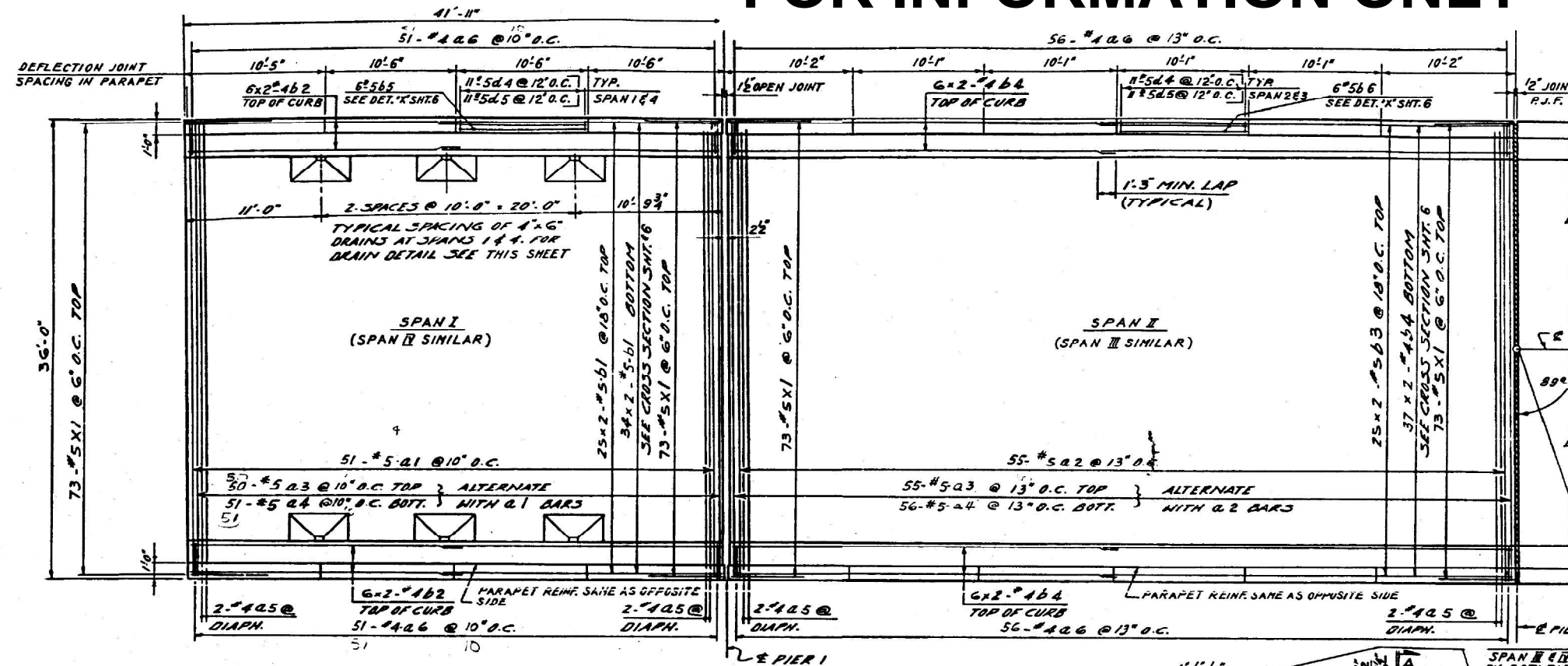
SHEET 1 OF 3 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
46	(50-2HB)BRR	LASALLE	48	48A
CONTRACT NO. 66R21				

ILLINOIS FED. AID PROJECT

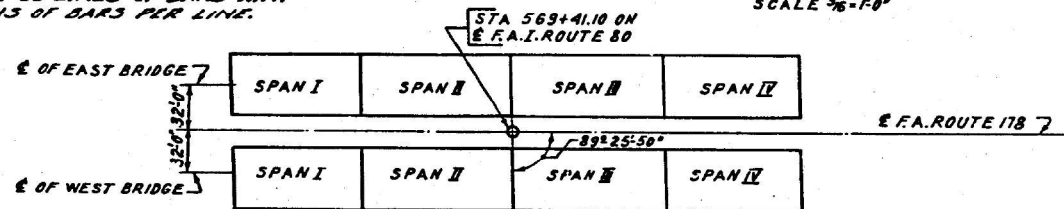
FOR INFORMATION ONLY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 80	50-2HB	LA SALLE	22	5
STA.	TO STA.			
B. P. R. REG. NO. 4	ILLINOIS	PROJECT		

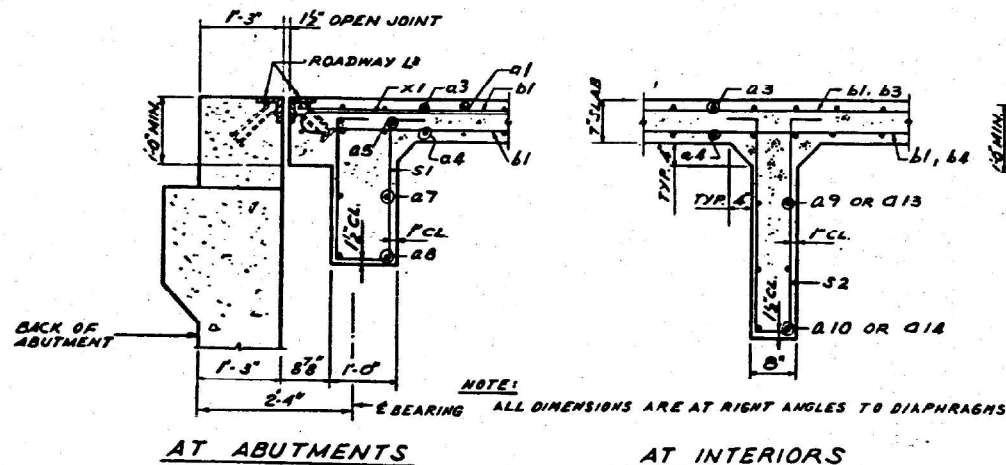


NOTE:
BARS NOTED THUSLY 25x2.5 ETC.
INDICATE 25 LINES OF BARS WITH
2 LENGTHS OF BARS PER LINE.

PLAN OF DECK REINFORCEMENT-EAST BRIDGE SHOWN
WEST BRIDGE SIMILAR
SCALE 3/8"=1'-0"



SCHEMATIC PLAN



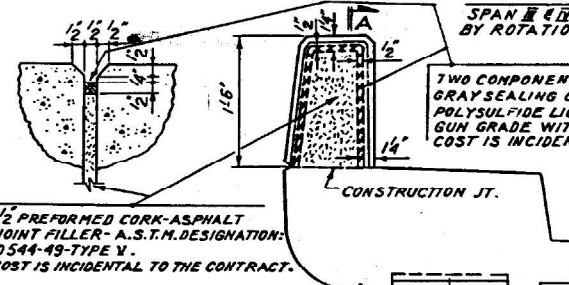
AT ABUTMENTS

AT INTERIORS

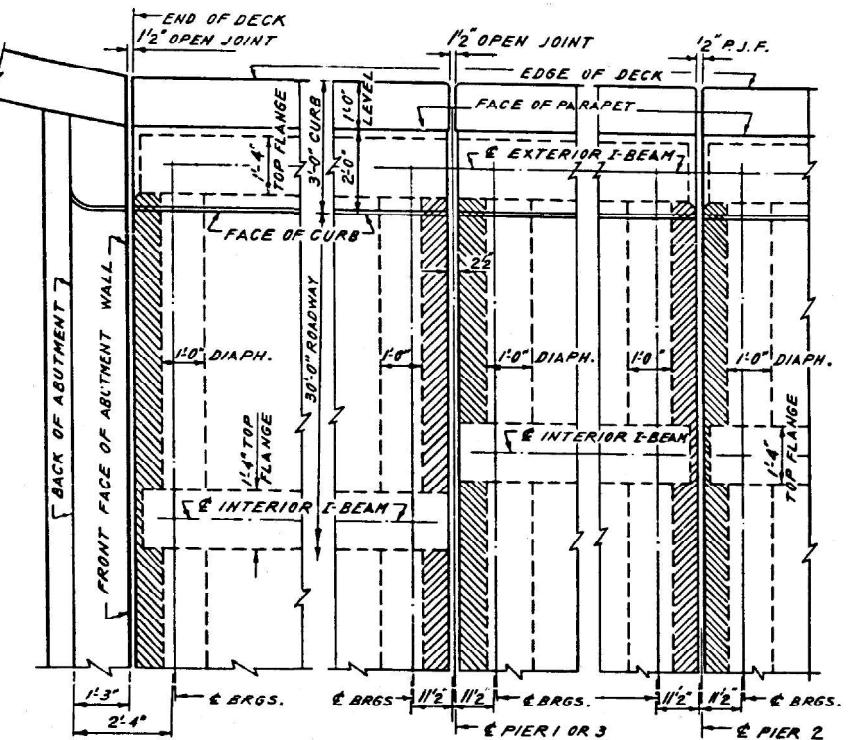
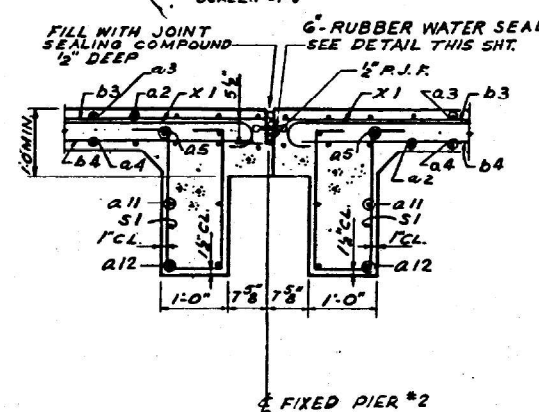
AT EXPANSION PIERS

AT FIXED PIER

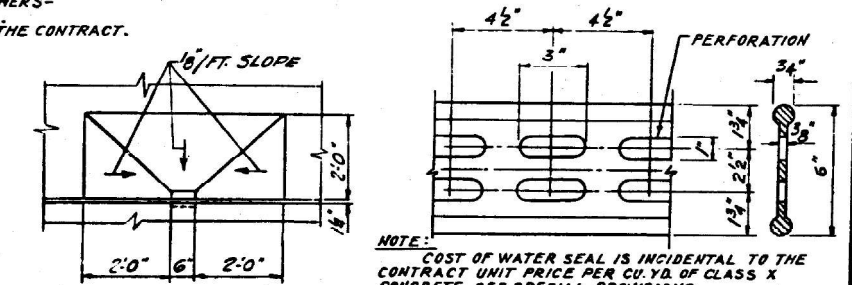
TYPICAL DIAPHRAGM SECTIONS
SEE SHEETS NO. 7 & 8 FOR DIAPHRAGM LOCATIONS
SCALE: 3/4"=1'-0"



SECTION A-A
DEFLECTION JOINT
SCALE: 1/2"=1'-0"



PARTIAL PLAN OF DECK
SCALE: 1/2"=1'-0"



PLAN AT DRAINS
SCALE: 1/2"=1'-0"

DETAIL OF
6"-RUBBER WATER SEAL
SCALE: 3/4"=1'-0"

BILL OF MATERIALS - SUPERSTRUCTURE

ITEM	UNIT	EAST BRIDGE	WEST BRIDGE
CLASS X CONCRETE	CU. YD.	244.0	244.0
REINFORCEMENT BARS	POUND	48,790	48,790
ALUMINUM HANDRAIL	LIN. FT.	410	410
STRUCTURAL STEEL	POUND	11,700	11,700
FURNISHING AND ERECTING PRECAST PRESTRESSED CONCRETE I-BEAMS	LIN. FT.	1,142	1,142

DECK REINFORCEMENT PLAN
GRADE SEPARATION
F.A. ROUTE 178
OVER F.A.I. ROUTE 80
F.A. PROJECT
F.A.I. ROUTE 80 SECTION 50-2HB
LA SALLE COUNTY
STATION 569+41.10

ALFRED BENESCH & ASSOCIATES CONSULTING ENGINEERS
10 SOUTH WABASH AVENUE 706 CHICAGO, ILLINOIS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS - FOR INFORMATION ONLY
STRUCTURE NO. 050-0077 (SB) & 050-0078 (NB)

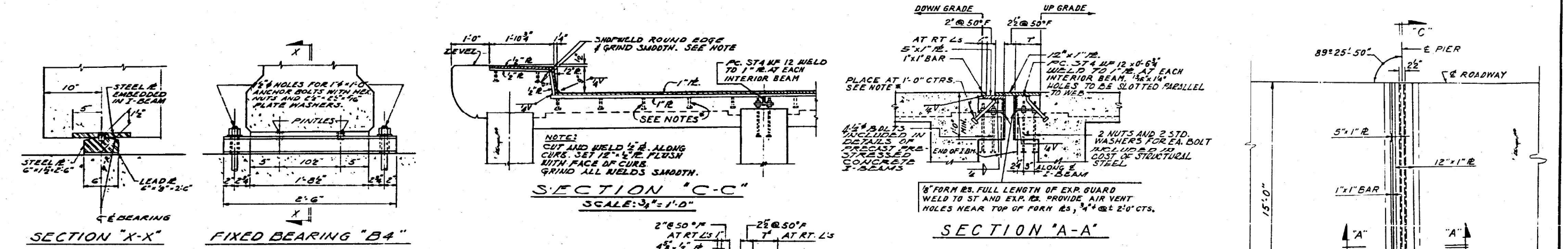
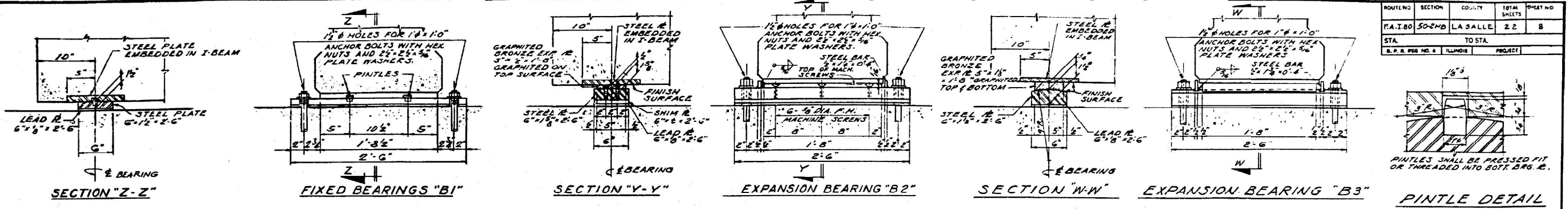
SHEET 2 OF 3 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
46	(50-2HB)BRR	LASALLE	48	48B
				CONTRACT NO. 66R21
		ILLINOIS	FED. AID PROJECT	

USER NAME =	DESIGNED - PDA	REVISED -
PLOT SCALE =	CHECKED - PRR	REVISED -
PLOT DATE =	DRAWN - MMY	REVISED -
	CHECKED - MJT	REVISED -

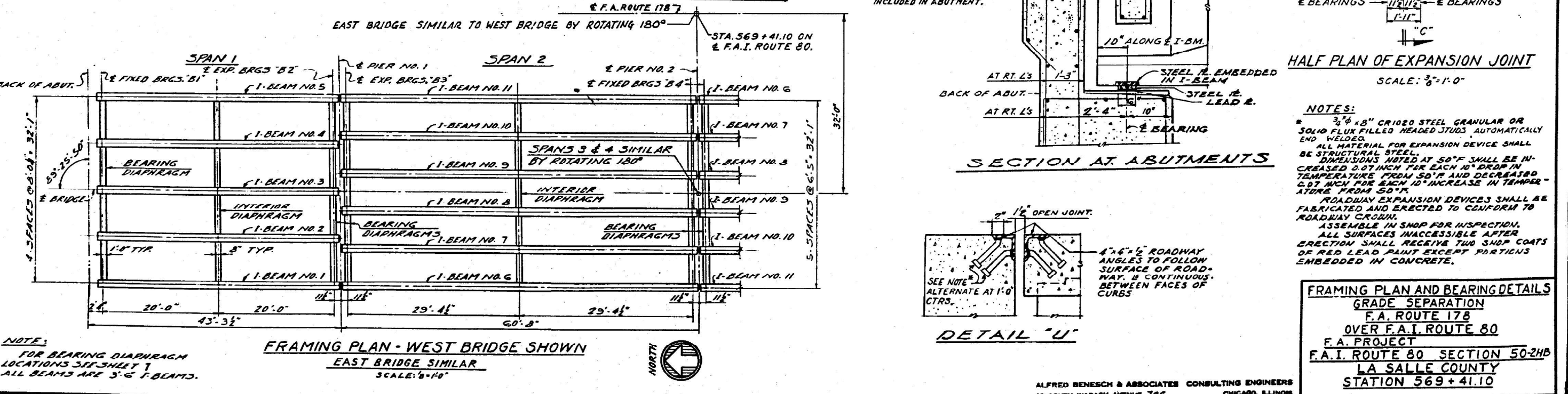
FOR INFORMATION ONLY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.80	50-2ND	LA SALLE	22	8
STA.		TO STA.		
S. P. R. REG. NO. 4		ILLINOIS	PROJECT	



6" DIMENSIONS - SHIM PLATES - EAST AND WEST BRIDGE

BEAM NO.	1	2	3	4	5	6	7	8	9	10	11
PIER 1, SPAN 1	—	3/8"	—	3/8"	—	—	—	—	—	—	—
PIER 2, SPAN 2	—	—	—	—	—	—	—	—	—	—	—
PIER 3, SPAN 3	—	—	—	—	—	—	—	—	—	—	—
PIER 3, SPAN 4	—	3/8"	—	3/8"	—	—	—	—	—	—	—



MODEL: Sheet
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