

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	[(50-2), BR-10, BR-13] BJR, BDR	LASALLE	60*	1
		ILLINOIS	CONTRACT NO. 66M69	

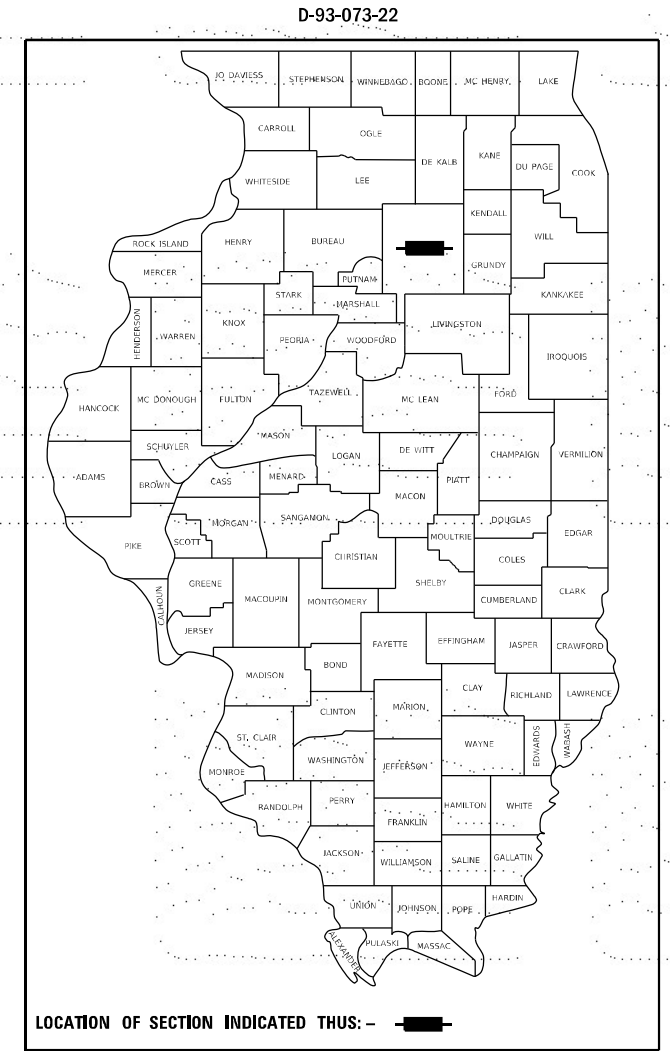
*60 + 4 = 64 TOTAL SHEETS

INDEX OF SHEETS

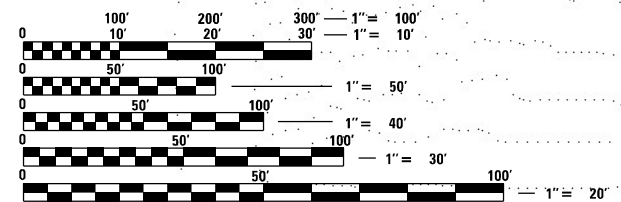
- 1 COVER SHEET
- 2 STANDARDS LIST & GENERAL NOTES
- 3-7 SUMMARY OF QUANTITIES
- 8-9 TYPICAL SECTIONS
- 10-11 SCHEDULE OF QUANTITIES
- 12-13 GUARDRAIL TERMINAL DETAIL
- 14 MAINTENANCE OF TRAFFIC TYPICAL SECTION
- 15 MAINTENANCE OF TRAFFIC PLAN
- 16-43 STRUCTURE PLANS (SN 050-0093)
- 44-64 STRUCTURE PLANS (SN 050-0125)

PROPOSED HIGHWAY PLANS

FAI ROUTE 80 (I-80)
SECTION [(50-2)BR-10, BR-13]BJR, BDR
PROJECT NHPP-KP9C (983)
BRIDGE REPAIR
LASALLE COUNTY
C-93-093-22



LOCATION OF SECTION INDICATED THUS: - [black rectangle] -



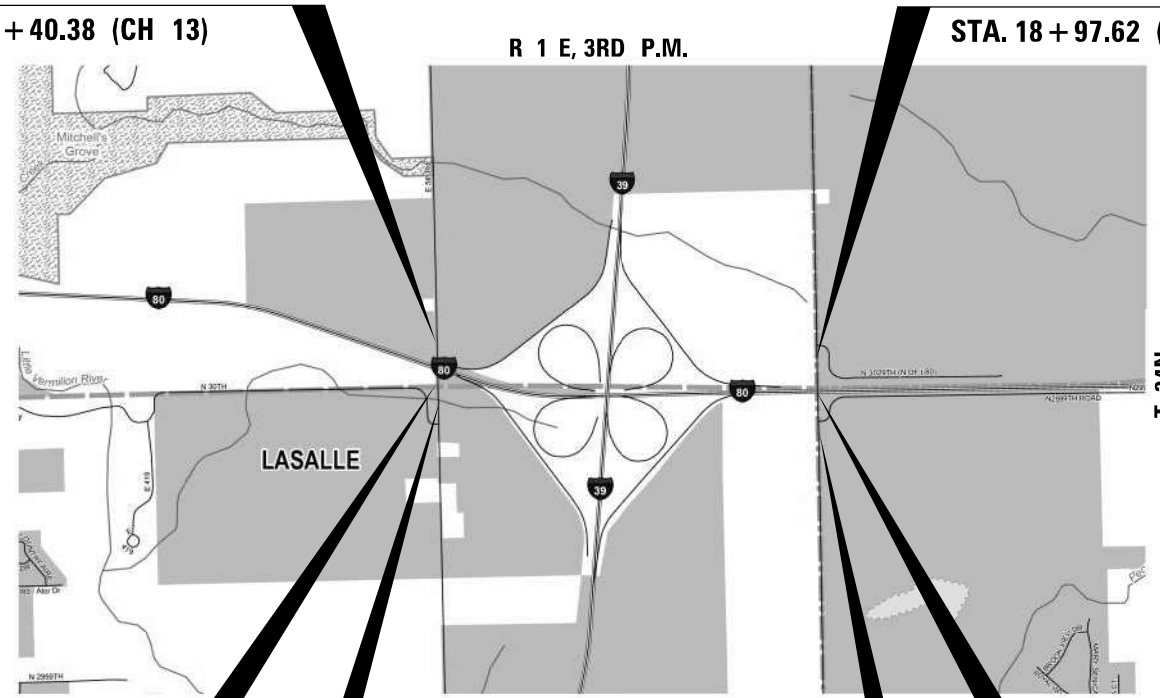
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

DISTRICT 3 NO. (815) 434-8420
PROJECT ENGINEER: BRADLEY DUNCAN, P.E.
UNIT CHIEF: MOHAMED YOUSIF
CONTRACT NO. 66M69

IMPROVEMENT ENDS
STA. 19 + 40.38 (CH 13)

IMPROVEMENT BEGINS
STA. 18 + 97.62 (6TH RD)



LOCATION MAP
NOT TO SCALE

CH 13 OVER I-80
STA. 18 + 08.38
SN: 050-0093

6TH ROAD OVER I-80
STA. 790 + 87.36
SN: 050-0125

IMPROVEMENT BEGINS
STA. 16 + 82.88 (CH 13)

IMPROVEMENT ENDS
STA. 21 + 02.37 (6TH RD)

GROSS LENGTH = 462.25 FT. = 0.088 MILE
NET LENGTH = 462.25 FT. = 0.088 MILE

I-80 - INTERSTATE - 31,400 ADT
CH 13 - MAJOR COLLECTOR - 625 ADT
E 6TH RD - LOCAL ROAD - 275 ADT

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED February 2, 2023

M. Ahmad
REGIONAL ENGINEER

March 24, 2023

S. A. Etk
ENGINEER OF DESIGN AND ENVIRONMENT

March 24, 2023

Stephen M. Smith
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS

HIGHWAY STANDARDS

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
482001-02	HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
630001-12	STEEL PLATE BEAM GUARDRAIL
631031-18	TRAFFIC BARRIER TERMINAL, TYPE 6
701101-05	OFF-RD OPERATIONS, MULTILANE, 15' (4.5 M) TO 24" (600 MM) FROM PAVEMENT EDGE
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701321-18	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701400-11	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-13	LANE CLOSURE, FREEWAY/EXPRESSWAY
701411-09	LANE CLOSURE, MULTILANE, AT ENTRANCE OF EXIT RAMP, FOR SPEEDS \geq 45 MPG
701901-08	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
B.L.R. 21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS
D3 780-8	PAVEMENT MARKINGS
701306-04	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS \geq 45 MPH
B.L.R. 22-7	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

IDOT DISTRICT 3 DETAILS

HMA DETAIL AT BUTT JOINTS
 BUTT JOINT DETAILS
 PAVEMENT MARKING DETAILS
 STOP LINE SIGN FOR TEMPORARY SIGNALS
 TEMPORARY INFORMATION SIGNING - ROAD WORK

GENERAL NOTES

- EXCEPT AS NOTED ON THE PLANS, PAVEMENT GRADES SHOWN ARE AT THE TOP OF PAVEMENT SURFACES.
- 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 EARTH EXCAVATION.

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

HMA RESURFACING	112	LBS / SQ YD / IN
SHORT TERM PAVEMENT MARKING	10	FT / 100 FT OF APPLICATION

COMMITMENTS

- THE RESIDENT ENGINEER SHALL CONTACT DAVID HARMON PRIOR THE CLOSURE OF E 6TH ROAD, (815) 343-7161

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DISTRICT THREE
 AS BUILT INFORMATION

 SUPERVISING CONSTRUCTION FIELD ENGINEER

 RESIDENT ENGINEER / TECHNICIAN

START & END DATES
 OF CONSTRUCTION: _____

INSPECTORS: _____

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PLOT DATE = 1/27/2023	CHECKED - KJ	REVISED -
	DATE - 11/28/22	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	[(50-2.) BR-4, BR-13] BJR, BDR	LASALLE	64	2
			CONTRACT NO. 66M69	
		ILLINOIS	FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				RURAL 90 % FED / 10% STATE	RURAL 90 % FED / 10% STATE
				BRIDGE 0047	BRIDGE 0047
				050-0093	050-0125
20200100	EARTH EXCAVATION	CU YD	168	168	
28000500	INLET AND PIPE PROTECTION	EACH	4	4	
28100705	STONE DUMPED RIPRAP, CLASS A3	SQ YD	27	27	
31102000	SUBBASE GRANULAR MATERIAL, TYPE C	CU YD	36	36	
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	252	54	198
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	218	18	200
40604060	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50	TON	29	10	19
48101600	AGGREGATE SHOULDERS, TYPE B 8"	SQ YD	54.4	51.4	3.0
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	351	351	
50102400	CONCRETE REMOVAL	CU YD	34	10	24
50104000	BRIDGE RAIL REMOVAL	FOOT	125	81	44
50157300	PROTECTIVE SHIELD	SQ YD	578	400	178
50300255	CONCRETE SUPERSTRUCTURE	CU YD	43.5	16.5	27.5
50300260	BRIDGE DECK GROOVING	SQ YD	1365	870	495

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 CHECKED - KJ
 DATE - 11/28/22

REVISED - _____
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 REVISED - _____
 REVISED - _____

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	[(50-2.) BR-4, BR-13] BJR, BDR	LASALLE	64	3
			CONTRACT NO. 66M69	
ILLINOIS FED. AID PROJECT				

CONSTRUCTION CODE	
RURAL 90 % FED / 10% STATE	RURAL 90 % FED / 10% STATE
BRIDGE 0047	BRIDGE 0047
050-0093	050-0125

CODE NO.	ITEM	UNIT	TOTAL QUANTITY		
50300300	PROTECTIVE COAT	SQ YD	1665	950	715
50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	1,903		1,930
50600200	PAINTING STEEL RAILING	FOOT	405		405
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	5550	2180	3370
50800515	BAR SPLICERS	EACH	26	26	
52000110	PREFORMED JOINT STRIP SEAL	FOOT	189	77	112
58700300	CONCRETE SEALER	SQ FT	487	487	
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	550	500	50
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	8	4	4
63200310	GUARDRAIL REMOVAL	FOOT	850	650	200
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	3	3
67100100	MOBILIZATION	L SUM	1	1	
70100205	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	EACH	2	2	

*= SPECIALTY ITEM

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PLOT DATE = 1/27/2023	DATE = 11/28/22	REVISED +

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	[(50-2.) BR-4, BR-13] BJR, BDR	LASALLE	64	4
			CONTRACT NO. 66M69	
ILLINOIS FED. AID PROJECT				

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CONSTRUCTION CODE	
RURAL 90 % FED / 10% STATE	RURAL 90 % FED / 10% STATE
BRIDGE 0047	BRIDGE 0047
050-0093	050-0125

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	BRIDGE 050-0093	BRIDGE 050-0125
70100350	TRAFFIC CONTROL AND PROTECTION, STANDARD 701101	EACH	1	1	
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	3	3	
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	4	4	
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	1	
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	120	120	
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1	
70106700	TEMPORARY RUMBLE STRIPS	EACH	12	12	
70107004	PAVEMENT MARKING BLACKOUT TAPE, 4"	FOOT	1726	1726	
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	1726	1726	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	625	625	
70400125	PINNING TEMPORARY CONCRETE BARRIER	EACH	126	126	
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	625	625	
70600251	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2	
70600352	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2	



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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SHEET	OF	SHEETS	STA.	TO STA.
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	((50-2.) BR-4, BR-13) BJR, BDR	LASALLE	64	5
			CONTRACT NO. 66M69	
ILLINOIS FED. AID PROJECT				

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				RURAL	RURAL
				90 % FED / 10% STATE	90 % FED / 10% STATE
				BRIDGE	BRIDGE
				0047	0047
				050-0093	050-0125
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	3745	3745	
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	54	50	4
* 78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	115	115	
X7011800	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	L SUM	1		1
X7011801	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 22	L SUM	1		1
Z0001899	JACK AND REMOVE EXISTING BEARINGS	EACH	10		10
Z0004556	HOT-MIX ASPHALT SURFACE REMOVAL (DECK)	SQ YD	925	925	
Z0006012	BRIDGE DECK LATEX CONCRETE OVERLAY, 2 1/4 INCHES	SQ YD	508		508
Z0006014	BRIDGE DECK LATEX CONCRETE OVERLAY, 2 1/2 INCHES	SQ YD	898	898	
Z0012130	BRIDGE DECK SCARIFICATION 3/4"	SQ YD	1406	898	508
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	9		9
Z0012755	STRUCTURAL REPAIR OF CONCRETE (DEPTH GREATER THAN 5 INCHES)	SQ FT	8		8
Z0016001	DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQ YD	29	8	21
Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	55	19	19



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	[(50-2.) BR-4, BR-13] BJR, BDR	LASALLE	64	6
			CONTRACT NO. 66M69	
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				RURAL	RURAL
				90 % FED / 10% STATE	90 % FED / 10% STATE
				BRIDGE	BRIDGE
				0047	0047
				050-0093	050-0125
Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	55	36	19
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	1230	1230	

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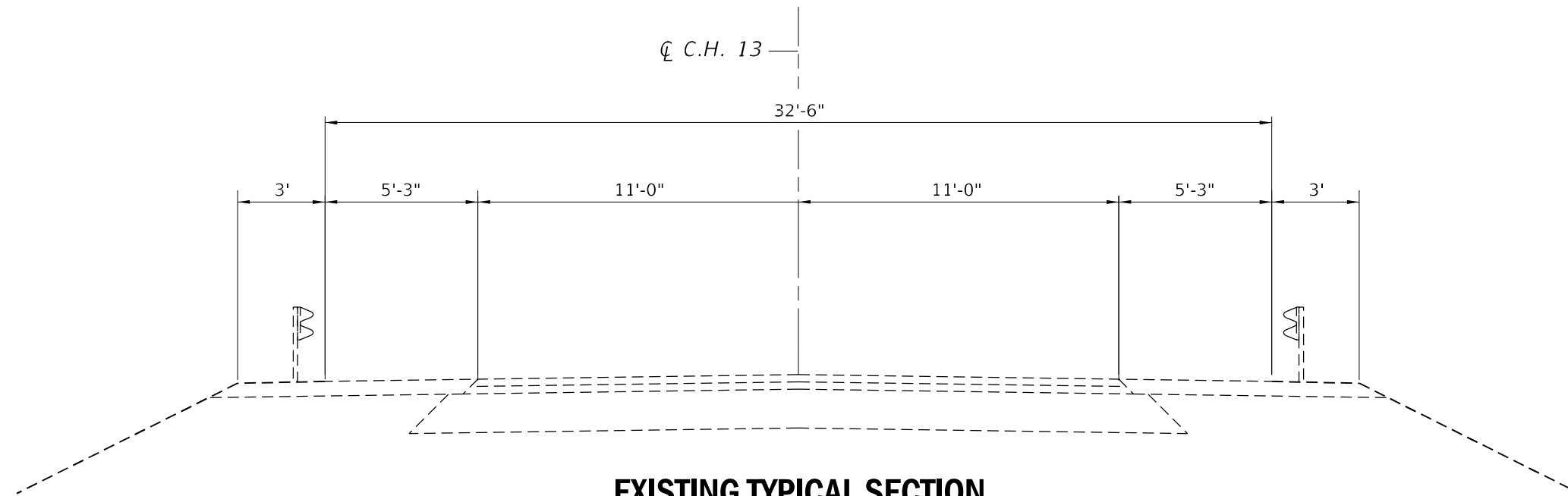
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PLOT DATE = 1/27/2023	DATE - 11/28/22	REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

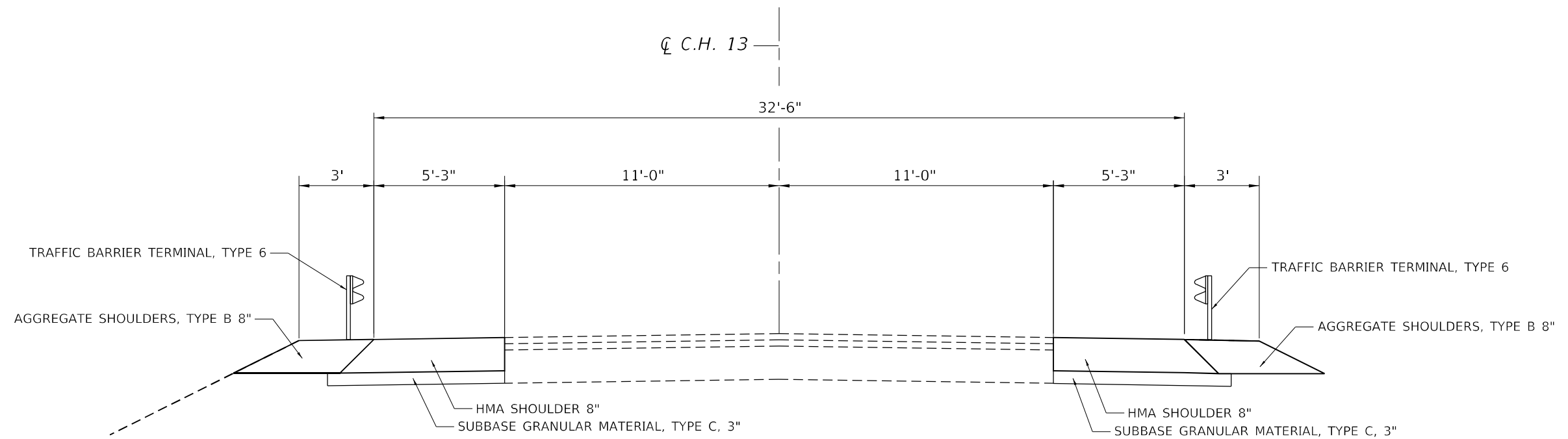
SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	[(50-2.) BR-4, BR-13] BJR, BDR	LASALLE	64	7
			CONTRACT NO. 66M69	
ILLINOIS FED. AID PROJECT				



EXISTING TYPICAL SECTION

(LOOKING UPSTATION)



PROPOSED TYPICAL SECTION

(LOOKING UPSTATION)

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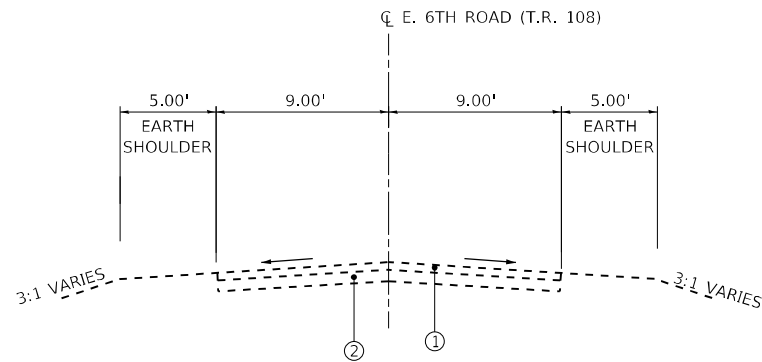
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

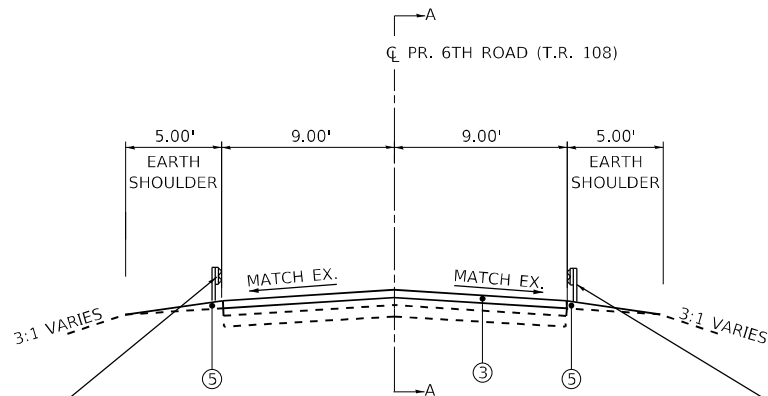
CH 13 TYPICAL SECTION

SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 66M69				
ILLINOIS FED. AID PROJECT				



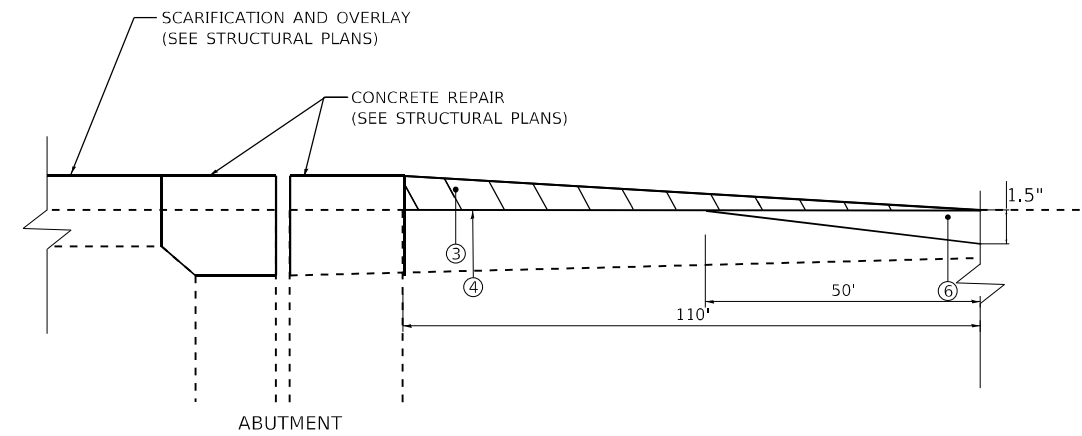
EXISTING TYPICAL SECTION - E. 6TH ROAD (T.R. 108)
AT APPROACHES (SOUTH AND NORTH)



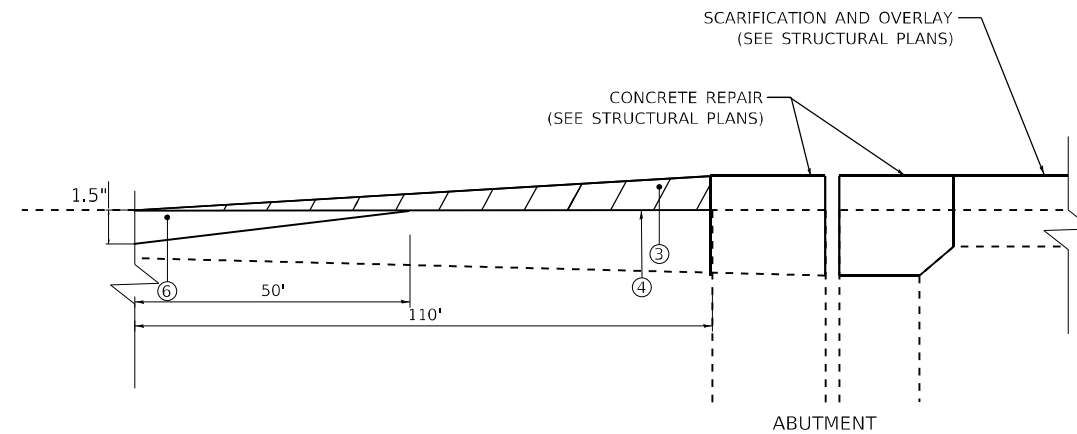
PROPOSED TYPICAL SECTION - E. 6TH ROAD (T.R. 108)
AT APPROACHES (SOUTH AND NORTH)

SPBG, TY A (12'-6" IN LENGTH, EACH CORNER OF THE BRIDGE CONNECTED TO THE PARAPET WALL

SPBG, TY A (12'-6" IN LENGTH, EACH CORNER OF THE BRIDGE CONNECTED TO THE PARAPET WALL



SOUTH APPROACH SLAB SECTION A-A



NORTH APPROACH SLAB SECTION A-A

LEGEND

- ① EXISTING BITUMINOUS PAVEMENT
- ② EXISTING AGGREGATE BASE COURSE
- ③ PROPOSED VARIABLE DEPTH (HMA N50) TAPER
- ④ PROPOSED TACK COAT
- ⑤ PROPOSED AGGREGATE WEDGE
- ⑥ BUTT JOINT (SEE STD 406-10)

LOCATIONS	ENTIRE PROJECT	ENTIRE PROJECT
MIXTURE USE(S):	HMA SHOULDER BOTTOM LIFT(S)	HMA SHOULDER TOP LIFT
BINDER GRADE (PG):	PG 64-22	PG 64-22
DESIGN AIR VOIDS:	4.0% @ N50	4.0% @ N50
MIXTURE COMPOSITION (MIXTURE GRADATION)	IL 19.0	IL 9.5
FRICTION AGGREGATE:		MIXTURE D
MIXTURE WEIGHT:	112.0 LB/SY/IN	112.0 LB/SY/IN
QUALITY MANAGEMENT PROGRAM:	QCQA	QCQA
SUBLOT SIZE:	NA	NA
DENSITY TEST METHOD:	CORES/NUCLEAR	CORES/NUCLEAR
MATERIAL TRANSFER DEVICE (REQUIRED):	NO	NO

66M69 - COUNTY 16 AND 6TH RD BRIDGES OVER I-80

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REVISIONS -		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

E. 6TH ROAD (T.R. 108)
TYPICAL SECTIONS

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	50-2)RS-4, BR-1 & (50-3)RS-5	LASALLE	64	9
ILLINOIS FED. AID PROJECT			CONTRACT NO. 66M69	

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ROADWAY	STAGE NO.	STA.	TO	STA.	SIDE	63000001 SPBGR TY A 6FT POSTS (FT)	63100085 TRAF BAR TERM T6 (EACH)	63200310 GUARDRAI L REMOV (FT)	70400100 TEMP CONC BARRIER (FT)	70400200 REL TEMP CONC BARRIER (FT)	78200011 BARR WALL REF TYPE C (EACH)	78200005 GRDRAIL REF TYPE A (EACH)	70300150 SHRT TRM PAVT MK REM (SQFT)	70107004 PAVT MK BLKOUT TAPE 4 (FT)	78001110 PAINT PVT MK LINE 4 (FT)
CH 13		14+65.05		16+40.05	RT	175									
CH 13		15+76.77		16+51.77	LT	75									
CH 13		19+71.49		21+46.49	RT	175									
CH 13		19+83.21		20+58.11	LT	75									
CH 13		14+65.05		16+77.55	RT			212.5							
CH 13		15+76.77		16+89.27	LT			112.5							
CH 13		19+33.99		21+46.49	RT			212.5							
CH 13		19+45.70		20+58.21	LT			112.5							
CH 13		16+40.05		16+77.55	RT		1								
CH 13		16+51.28		16+89.27	LT		1								
CH 13		19+33.99		19+34.11	RT		1								
CH 13		19+45.71		19+45.83	LT		1								
CH 13		14+65.05		16+77.55	RT						4				
CH 13		15+76.77		16+89.27	LT						3				
CH 13		19+34.11		21+46.49	RT						4				
CH 13		19+45.83		20+58.11	LT						3				
CH 13		16+82.95		19+40.34	RT					10					
CH 13		16+82.82		19+40.37	LT					10					
CH 13	1	15+11.55		21+32.89	RT			625		18					
CH 13	2	15+11.55		21+32.89	LT				625	18					
CH 13	1	12+46.81		14+39.03								128.67	386.00		
CH 13	1	21+98.38		23+88.23								126.67	380.00		
CH 13	1	14+27.19		22+09.03	RT							260.33	781.00		
CH 13	2	14+27.19		22+09.03	LT							260.33	781.00		
CH 13		13+04.35		22+70.00											1931.30
CH 13		13+63.41		22+70.00	LT										906.59
CH 13		13+63.41		22+70.00	RT										906.59
TOTAL						500	4	650	625	625	56	14	776	2328	3745



USER NAME = JUEJ	DESIGNED - JJ	REVISED -
	DRAWN - JJ	REVISED -
PLOT SCALE = 5,000' / in.	CHECKED - KJ	REVISED -
PLOT DATE = 2/27/2023	DATE - 11/28/22	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES
CH 13**

SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	[(50-2.) BR-4, BR-13] BJR, BDR	LASALLE	64	7
CONTRACT NO. 66M69				
ILLINOIS FED. AID PROJECT				

ROADWAY	STAGE NO.	STA.	TO	STA.	SIDE	63000001 SPBGR TY A 6FT POSTS (FT)	63100085 TRAF BAR TERM T6 (EACH)	63200310 GUARD RAIL REMOV (FT)	70400100 TEMP CONC BARRIER (FT)	70400200 REL TEMP CONC BARRIER (FT)	78200011 BARR WALL REF TYPE C (EACH)	78200005 GRDRAIL REF TYPE A (EACH)	70300150 SHSHRT TRM PAVT MK REM (SQ FT)	70107004 PAVT MK BLKOUT TAPE 4 (FT)	78001110 PAINT PVT MK LINE 4 (FT)
T.R. 108		18+47.12		18+59.62	LT	12.5									
T.R. 108		18+47.12		18+59.62	RT	12.5									
T.R. 108		21+40.87		21+53.37	LT	12.5									
T.R. 108		21+40.87		21+53.37	RT	12.5									
T.R. 108		18+47.12		18+97.12	RT			50							
T.R. 108		18+47.12		18+97.12	LT			50							
T.R. 108		21+03.37		21+53.37	RT			50							
T.R. 108		21+03.37		21+53.37	LT			50							
T.R. 108		18+59.62		18+97.12	RT		1								
T.R. 108		18+59.62		18+97.12	LT		1								
T.R. 108		21+03.37		21+40.87	RT		1								
T.R. 108		21+03.37		21+40.87	LT		1								
T.R. 108		18+47.12		18+97.12	RT						1				
T.R. 108		18+47.12		18+97.12	LT						1				
T.R. 108		21+03.37		21+53.37	RT						1				
T.R. 108		21+03.37		21+53.37	LT						1				
TOTAL						50	4	200	0.0	0.0	0	4	0	0	0

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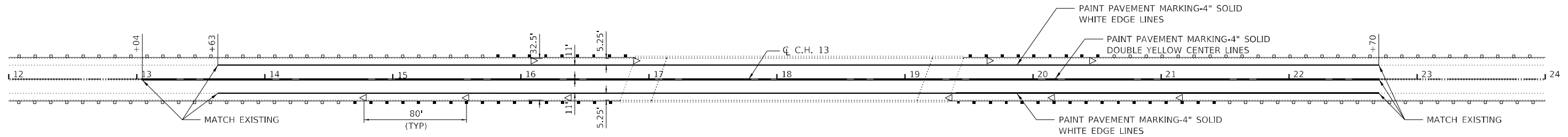
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	DRAWN - JJ	REVISED -
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PLOT DATE = 2/27/2023	DATE - 11/28/22	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES
T.R. 108**

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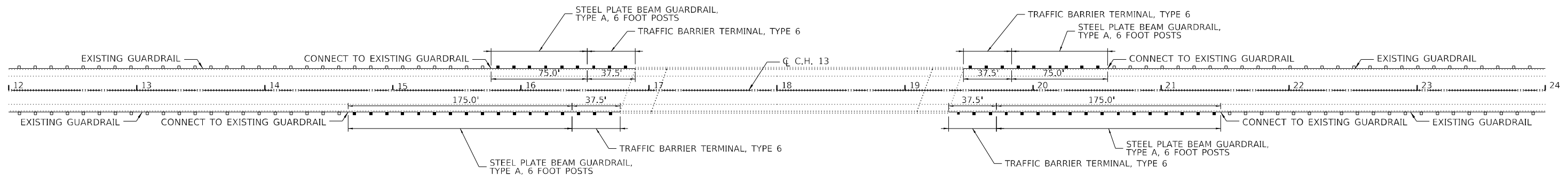
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	[(50-2.) BR-4, BR-13] BJR, BDR	LASALLE	64	7
CONTRACT NO. 66M69				
ILLINOIS		FED. AID PROJECT		



LEGEND



PAVEMENT MARKING DETAIL



GENERAL NOTES

LENGTH OF GUARDRAIL INCLUDES 12.5' OF TRANSITION GUARDRAIL BETWEEN PROPOSED AND EXISTING

GUARDRAIL DETAIL - C.H. 13

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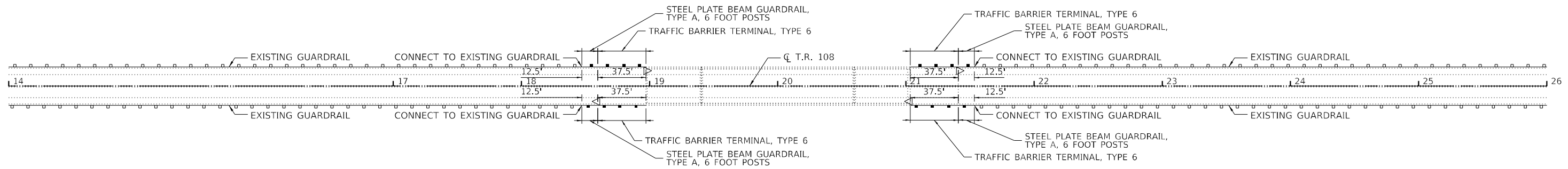
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DRAWN - JJ	CHECKED - KJ	REVISED -
PLOT SCALE = 1,000' / in.	DATE - 11/28/22	REVISED -
PLOT DATE = 1/27/2023		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUARDRAIL TERMINAL AND PAVEMENT MARKING DETAIL

SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	[(50-2.) BR-4, BR-13] BJR, BDR	LASALLE	64	12
CONTRACT NO. 66M69				
		ILLINOIS	FED. AID PROJECT	



LEGEND

◁ MONODIRECTIONAL CRYSTAL

GUARDRAIL DETAIL - T.R. 108

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USER NAME = JUEJ	DESIGNED - JJ	REVISED -
	DRAWN - JJ	REVISED -
PLOT SCALE = 1,000' / in.	CHECKED - KJ	REVISED -
PLOT DATE = 1/27/2023	DATE - 11/28/22	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

GUARDRAIL TERMINAL DETAIL

SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	[(50-2.) BR-4, BR-13] BJR, BDR	LASALLE	64	13
ILLINOIS FED. AID PROJECT			CONTRACT NO. 66M69	

NOTES

- ① SEE TYPICAL SECTIONS FOR PAVEMENT AND GUARDRAIL DETAILS
- ② FOR MOT PRESTAGE, REFERENCE TRAFFIC CONTROL AND PROTECTION STANDARD 701306-04
- ③ FOR MOT STAGE 1 AND STAGE 2, REFERENCE TRAFFIC CONTROL AND PROTECTION STANDARD 701316-13

LEGEND

- TEMPORARY CONCRETE BARRIER
- DIRECTION OF TRAFFIC

PRE-STAGE CONSTRUCTION:

SN 050-0093

- 1. REMOVE NORTHBOUND SHOULDER WITHIN RECONSTRUCTION LIMITS AS SHOWN ON PLANS
- 2. PERFORM BRIDGE RAILING MODIFICATION ON EAST SIDE OF BRIDGE
- 3. CONSTRUCT PERMANENT HMA SHOULDER
- 4. CONSTRUCT NORTHBOUND GUARDRAIL INSTALLATIONS
- 5. INSTALL PROTECTIVE SHIELDING

SN 050-0125

- 1. INSTALL PROTECTIVE SHIELDING

PRE-STAGE TRAFFIC:

CH 13

PROVIDE ONE ELEVEN FOOT LANE THROUGH THE PROJECT LIMITS ON EXISTING SOUTHBOUND PAVEMENT AND EXISTING STRUCTURE. USE HIGHWAY STANDARD 701321 AND TEMPORARY TRAFFIC SIGNALS FOR TRAFFIC CONTROL AND PROTECTION.

I-80

USE HIGHWAY STANDARD 701400, 701401, AND 701411.

STAGE 1 CONSTRUCTION:

SN 050-0093

- 1. REMOVE SOUTHBOUND SHOULDER WITHIN RECONSTRUCTION LIMITS AS SHOWN ON PLANS
- 2. CONSTRUCT PERMANENT HMA SHOULDER
- 3. COMPLETE BRIDGE WORK ON WESTERN PORTION OF STRUCTURE
- 4. CONSTRUCT SOUTHBOUND GUARDRAIL INSTALLATIONS

SN 050-0125

- 1. COMPLETE BRIDGE WORK, INCLUDING PIER REPAIR WORK

STAGE 1 TRAFFIC:

CH 13

PROVIDE ONE ELEVEN FOOT LANE THROUGH THE PROJECT LIMITS ON EXISTING NORTHBOUND PAVEMENT AND EXISTING STRUCTURE. USE HIGHWAY STANDARD 701321 AND TEMPORARY TRAFFIC SIGNALS FOR TRAFFIC CONTROL AND PROTECTION.

I-80

USE HIGHWAY STANDARD 701400, 701401, AND 701411.

STAGE 2 CONSTRUCTION:

- 1. COMPLETE BRIDGE WORK ON EASTERN PORTION OF STRUCTURE

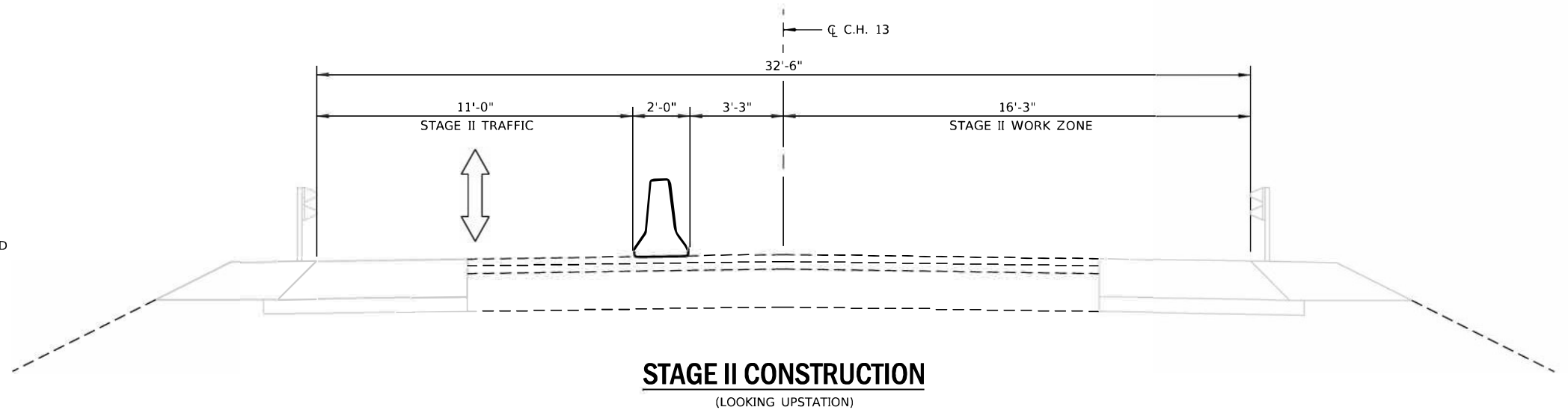
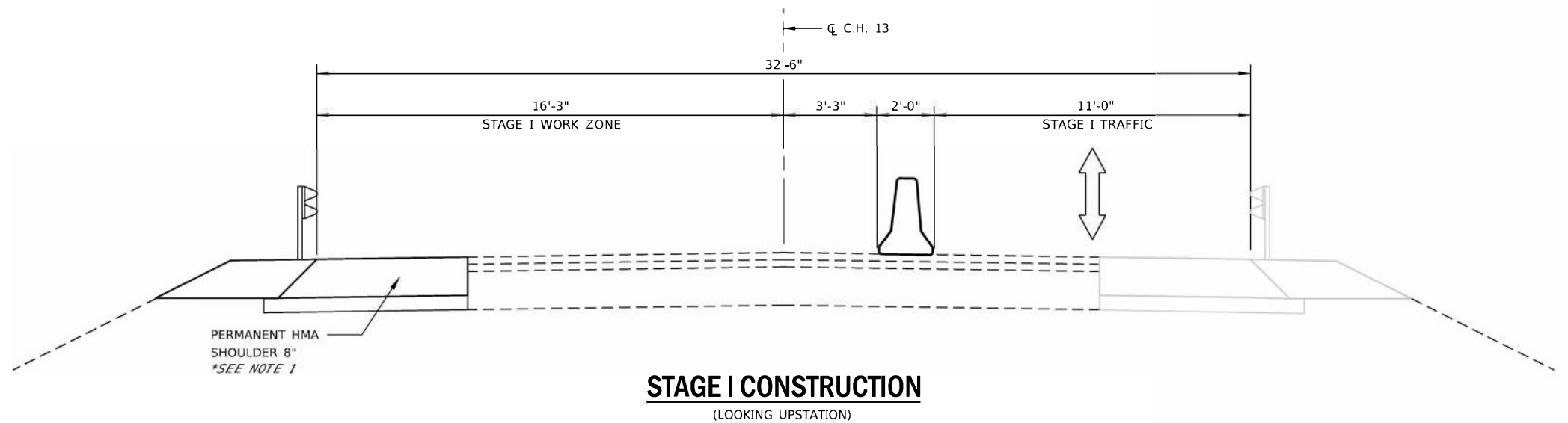
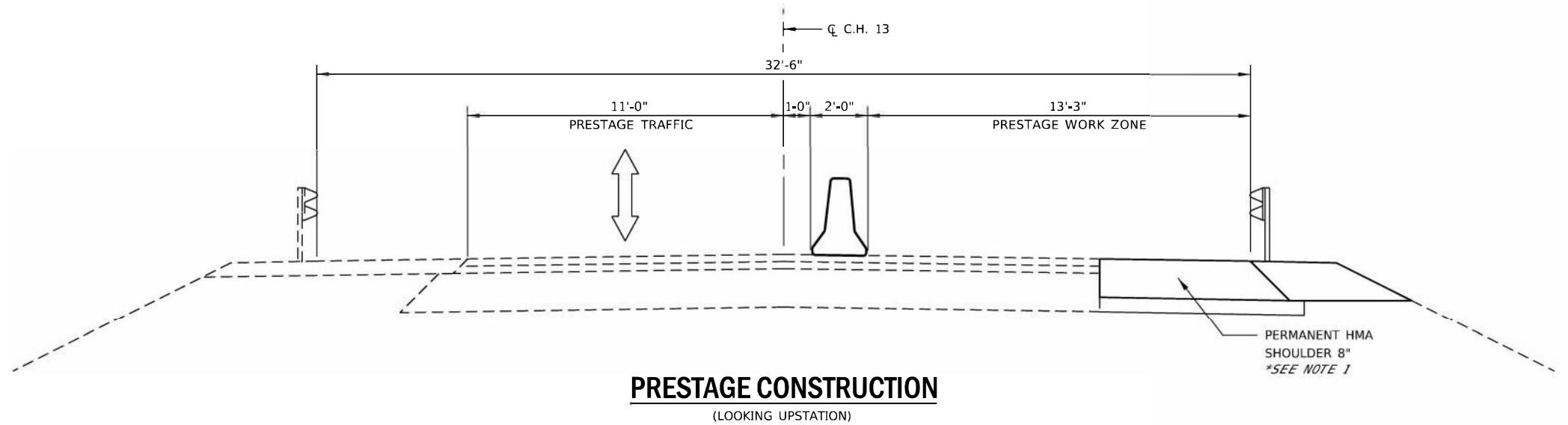
STAGE 2 TRAFFIC:

CH 13

PROVIDE ONE ELEVEN FOOT LANE THROUGH THE PROJECT LIMITS ON SOUTHBOUND PAVEMENT AND STRUCTURE. USE HIGHWAY STANDARD 701321 AND TEMPORARY TRAFFIC SIGNALS FOR TRAFFIC CONTROL AND PROTECTION.

I-80

USE HIGHWAY STANDARD 701400, 701401, AND 701411.



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USER NAME = \$USERS	DESIGNED - JJ	REVISED -
	DRAWN - JJ	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED - KJ	REVISED -
PLOT DATE = 1/27/2023	DATE - 11/28/22	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
TYPICAL SECTION - CH 13

SHEET OF SHEETS STA. TO STA.

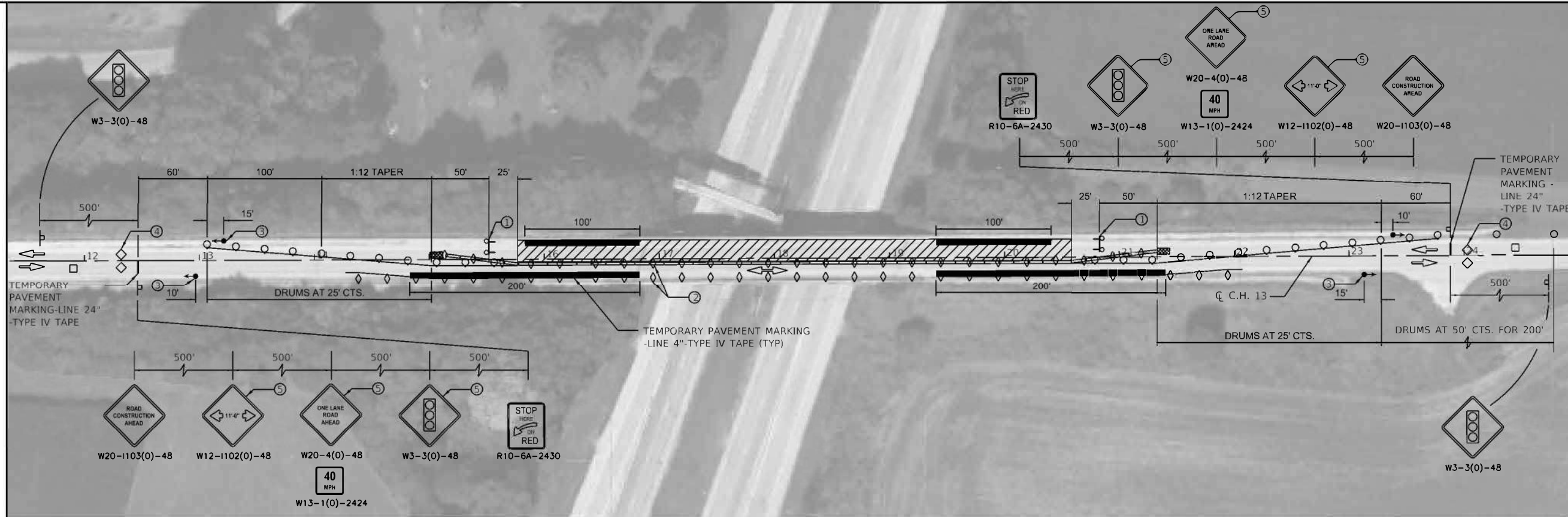
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	[(50-2.) BR-4, BR-13] BJR, BDR	LASALLE	64	14
CONTRACT NO. 66M69				
ILLINOIS FED. AID PROJECT				

LEGEND

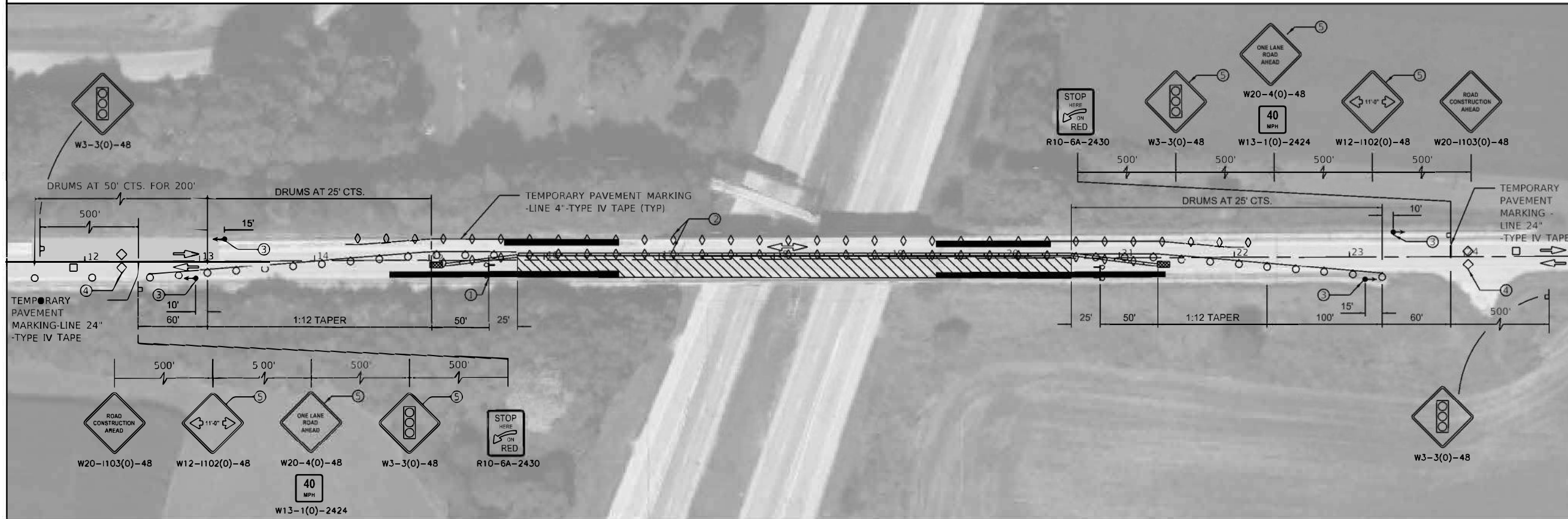
- DIRECTION OF TRAFFIC
- WORK ZONE
- PERMANENT HMA SHOULDER 8"
- TYPE III BARRICADE WITH FLASHING LIGHTS
- SIGN
- TEMPORARY BRIDGE TRAFFIC SIGNAL
- DETECTOR LOOPS
- DRUM WITH STEADY BURN BI-DIRECTIONAL LIGHT
- DRUM
- CRYSTAL, BI-DIRECTIONAL GUARDRAIL/BARRIER WALL REFLECTOR
- IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE, NARROW), TEST LEVEL 3
- TEMPORARY CONCRETE BARRIER

NOTES

- ① TYPE III BARRICADE TO BE PLACED WHEN NO WORK IS BEING PERFORMED.
- ② GUARDRAIL/BARRIER WALL REFLECTORS AT 25' CTS. SEE STANDARD 704001 AND 782006.
- ③ THE EDGE OF THE POST MOUNTED SIGNAL HEAD SHALL BE BETWEEN 24' AND 6' FROM EDGE OF SHOULDER.
- ④ SEE DETECTOR LOOP DETAIL IN STANDARD 701316-13 SHEET 2 OF 2 FOR ADDITIONAL INFORMATION.
- ⑤ TEMPORARY RUMBLE STRIPS TO BE PLACED 200' IN FRONT OF SIGN.



STAGE I CONSTRUCTION



STAGE II CONSTRUCTION



USER NAME = JAROSZK	DESIGNED = JJ	REVISED =
DRAWN = JJ	CHECKED = KJ	REVISED =
PLOT SCALE = 100.0000' / in.	DATE = 11/28/22	REVISED =
PLOT DATE = 1/27/2023		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC PLAN - CH 13

SHEET OF SHEETS STA. TO STA.

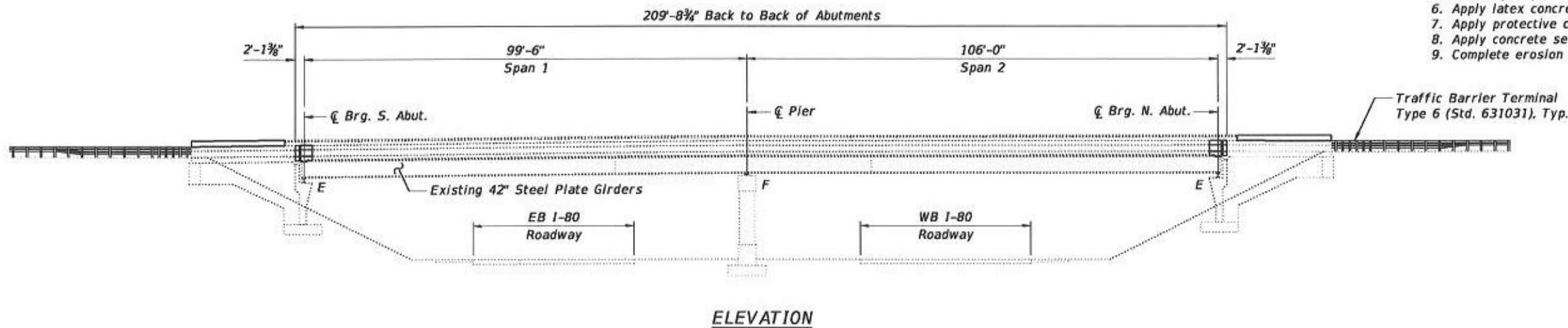
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	[(50-2) WR-4, WR-13] WR, WDR	LASALLE	64	15
CONTRACT NO. 66M69				
ILLINOIS		FED. AID PROJECT		

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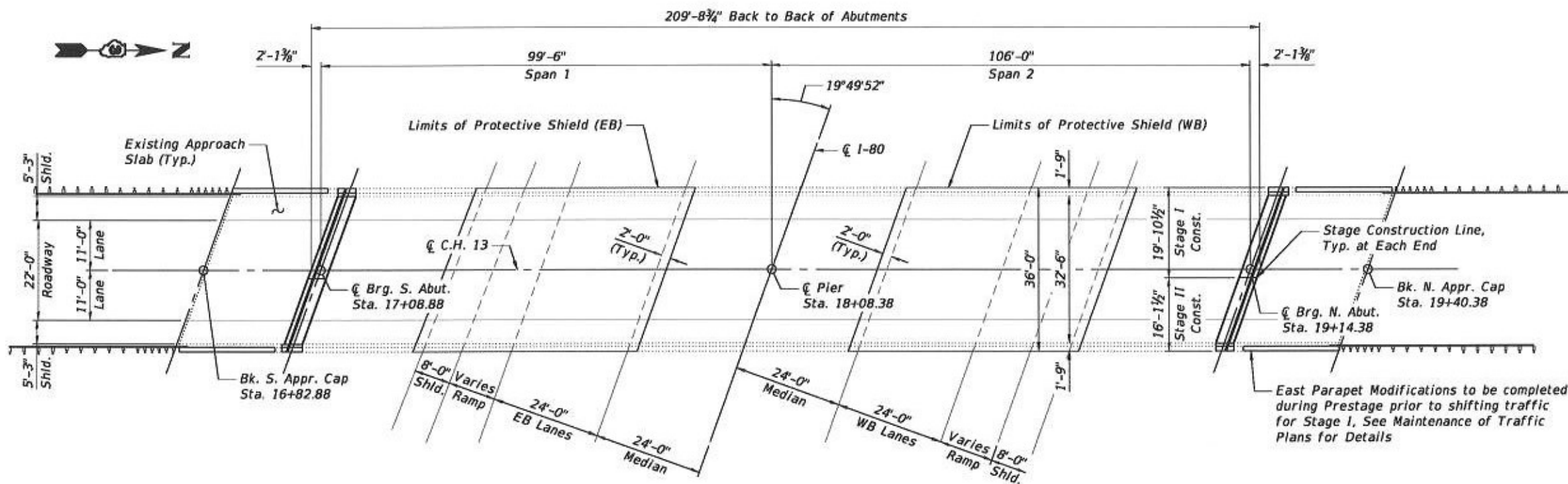
Existing Structure: S.N. 050-0093 is a 2-span continuous welded steel plate girder bridge measuring 209'-8 $\frac{3}{4}$ " from back to back of abutments and 36'-0" out to out deck width. The superstructure consists of 42" web steel girders supporting an 8" reinforced concrete slab with a 1 $\frac{3}{4}$ " bituminous overlay. The substructure consists of a multi column pier and vaulted abutments on steel piles.

PROPOSED SCOPE OF WORK

1. Remove existing wearing surface on bridge deck and approach slabs.
2. Scarify existing bridge deck and approach slabs.
3. Complete deck patch repairs.
4. Remove and replace expansion joints at abutments.
5. Extend parapet height to accommodate latest guardrail connection.
6. Apply latex concrete overlay on bridge deck and approach slabs.
7. Apply protective coat on new concrete areas and overlay limits.
8. Apply concrete sealer on abutment seats and backwall.
9. Complete erosion repairs at abutments and slopewalls.



ELEVATION



PLAN



LOCATION SKETCH



GENERAL PLAN AND ELEVATION
CH 13 OVER I-80
F.A.S. RTE. 260
SECTION [(50-2)BR-10, BR-13]BJR, BDR
LASALLE COUNTY
STATION 18+08.38
STRUCTURE NO. 050-0093

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USER NAME	DESIGNED - P. SARICH	REVISED -
PLOT SCALE	CHECKED - I. LOPEZ	REVISED -
PLOT DATE	DRAWN - P. SARICH	REVISED -
	CHECKED - P. SARICH	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
STRUCTURE NO. 050-0093
 SHEET 1 OF 28 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
260	[(50-2) BR-10, BR-13] BJR, BDR	LASALLE	64	16
CONTRACT NO. 66M69				
ILLINOIS FED. AID PROJECT				

NOTES

1. Plan dimensions and details relative to existing plans are subject to nominal construction variations. The contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of work; However, the contractor will be paid for the quantity actually furnished at the unit price bid for the work.
2. The contractor shall use extreme care during concrete removal so as to not damage the steel beams. Any damages due to the Contractor's operations shall be repaired to the satisfaction of Engineer at not expense to the Department.
3. Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete.
4. Reinforcement bars designated (E) shall be epoxy coated.
5. Joint opening shall be adjusted according to article 520.04 of the Standard Specifications when the deck is poured at an ambient temperature other than 50 degrees F.
6. Concrete Sealer shall be applied to the both abutment seats and backwall as indicated in the plans.
7. Protective Coat shall be applied to the top and inside faces of new concrete barrier areas and over limits of latex concrete overlay.
8. Work to be completed utilizing stage construction.

INDEX OF SHEETS

1. General Plan and Elevation
2. General Notes and Total Bill of Material
3. Stage Construction Details I
4. Stage Construction Details II
5. Temporary Concrete Barrier Details
6. Deck Slab Repair Plan I
7. Deck Slab Repair Plan II
8. Deck Slab Repair Plan I (As-Built)
9. Deck Slab Repair Plan II (As- Built)
10. Expansion Joint Removal Details
11. Expansion Joint Construction Details
12. Prefomed Joint Strip Seal
13. Bar Splicer Assembly and Mechanical Splicer Details
14. Superstructure Details I
15. Superstructure Details II
16. Wingwall and Slopewall Repairs
- 17-28. Existing Bridge Plans

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Dumped Riprap, Class A3	Sq. Yd.		27	27
Concrete Removal	Cu. Yd.	10		10
Bridge Rail Removal	Foot	81		81
Protective Shield	Sq. Yd.	400		400
Concrete Superstructure	Cu. Yd.	16.0		16.0
Bridge Deck Grooving	Sq. Yd.	870		870
Protective Coat	Sq. Yd.	950		950
Reinforcement Bars, Epoxy Coated	Pound	2,180		2,180
Bar Splicers	Each	26		26
Prefomed Joint Strip Seal	Foot	77		77
Concrete Sealer	Sq. Ft.		487	487
Hot-Mix Asphalt Surface Removal (Deck)	Sq. Yd.	925		925
Bridge Deck Latex Concrete Overlay, 2 1/2"	Sq. Yd.	898		898
Bridge Deck Scarification, 3/4"	Sq. Yd.	898		898
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	8		8
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	36		36

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	CHECKED - I. LOPEZ	REVISED - _____
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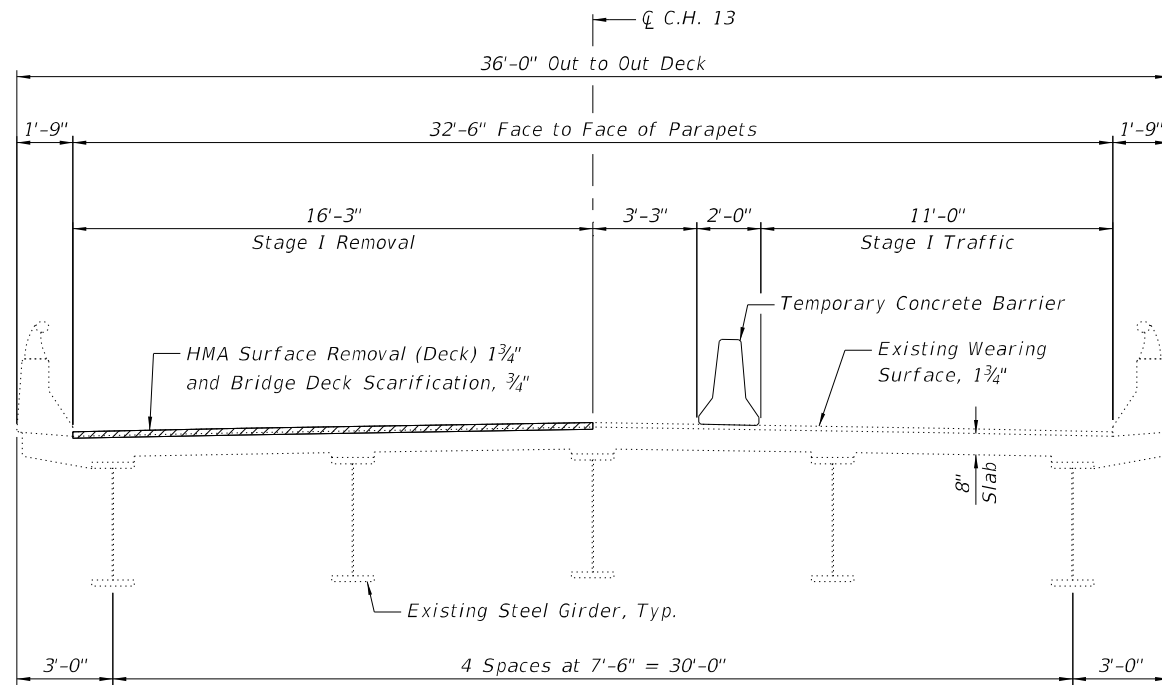
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES AND TOTAL BILL OF MATERIAL
STRUCTURE NO. 050-0093**

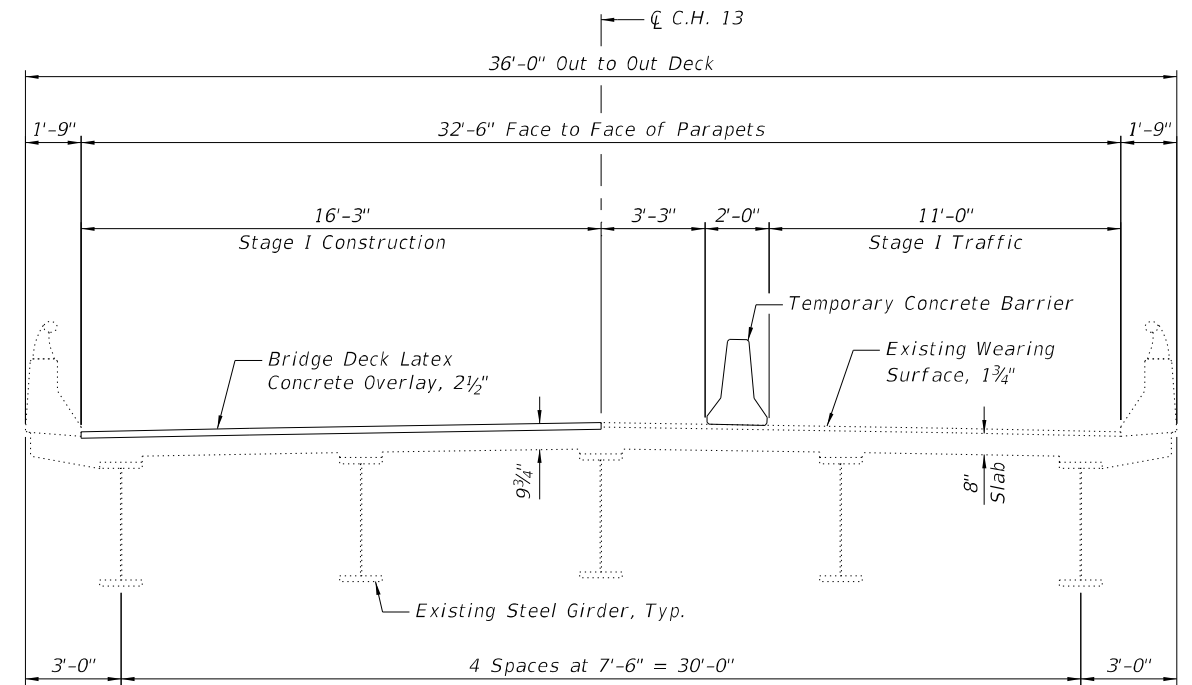
SHEET 2 OF 28 SHEETS

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CONTRACT NO. 66M69				
		ILLINOIS	FED. AID PROJECT	

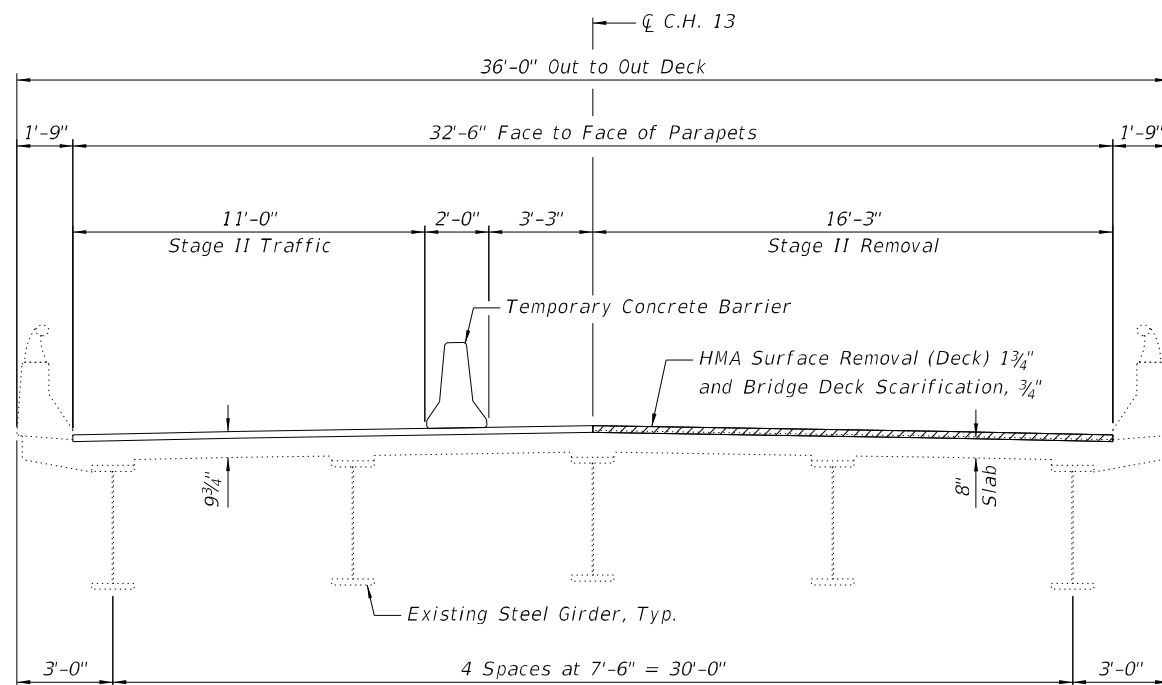
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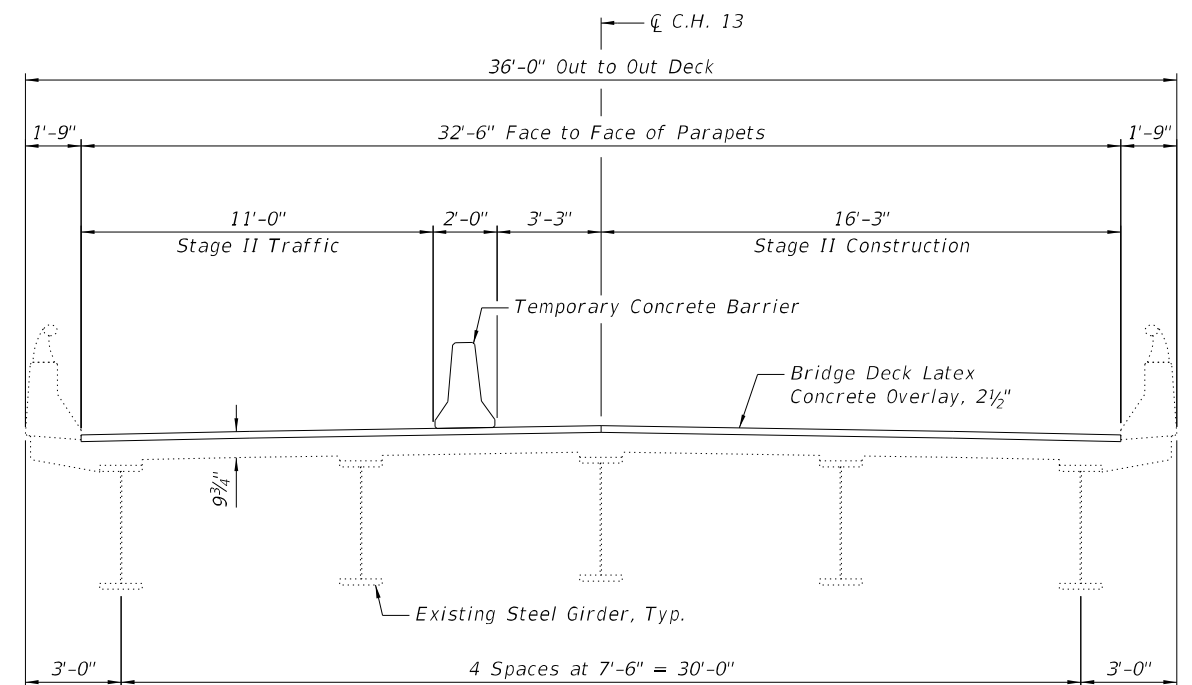
STAGE I REMOVAL
 (Looking Upstation)



STAGE I CONSTRUCTION
 (Looking Upstation)



STAGE II REMOVAL
 (Looking Upstation)



STAGE II CONSTRUCTION
 (Looking Upstation)



USER NAME =	DESIGNED - P. SARICH	REVISED -
	CHECKED - I. LOPEZ	REVISED -
PLOT SCALE =	DRAWN - P. SARICH	REVISED -
PLOT DATE =	CHECKED - P. SARICH	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

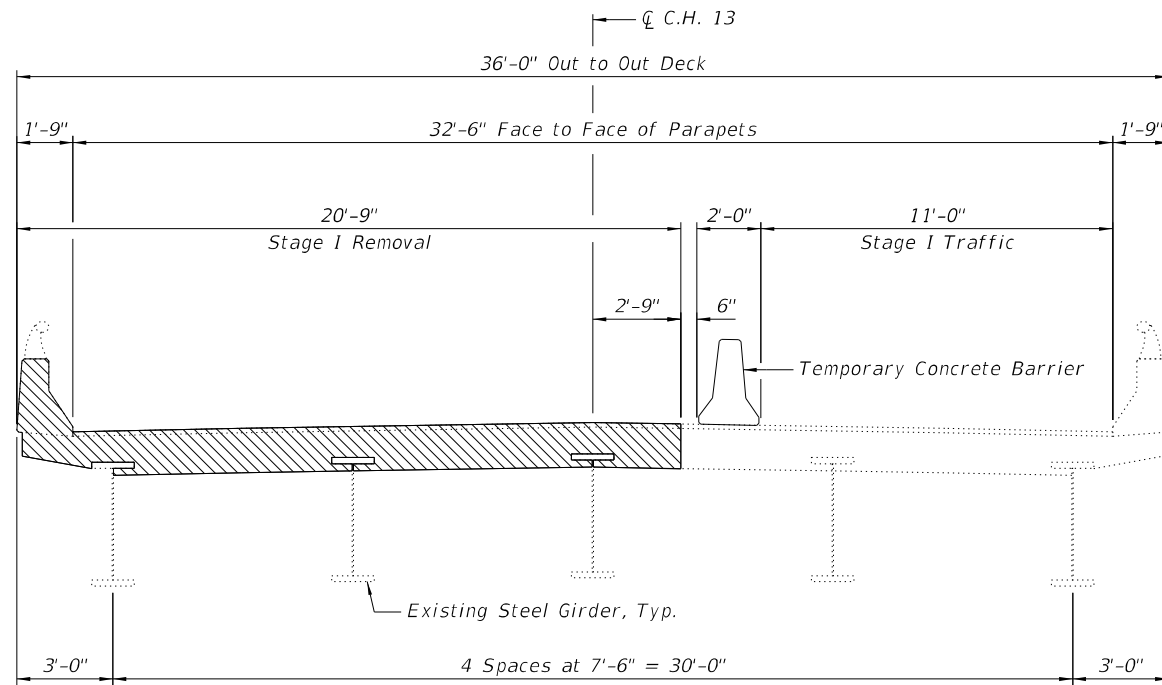
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 STRUCTURE NO. 050-0093**

SHEET 3 OF 28 SHEETS

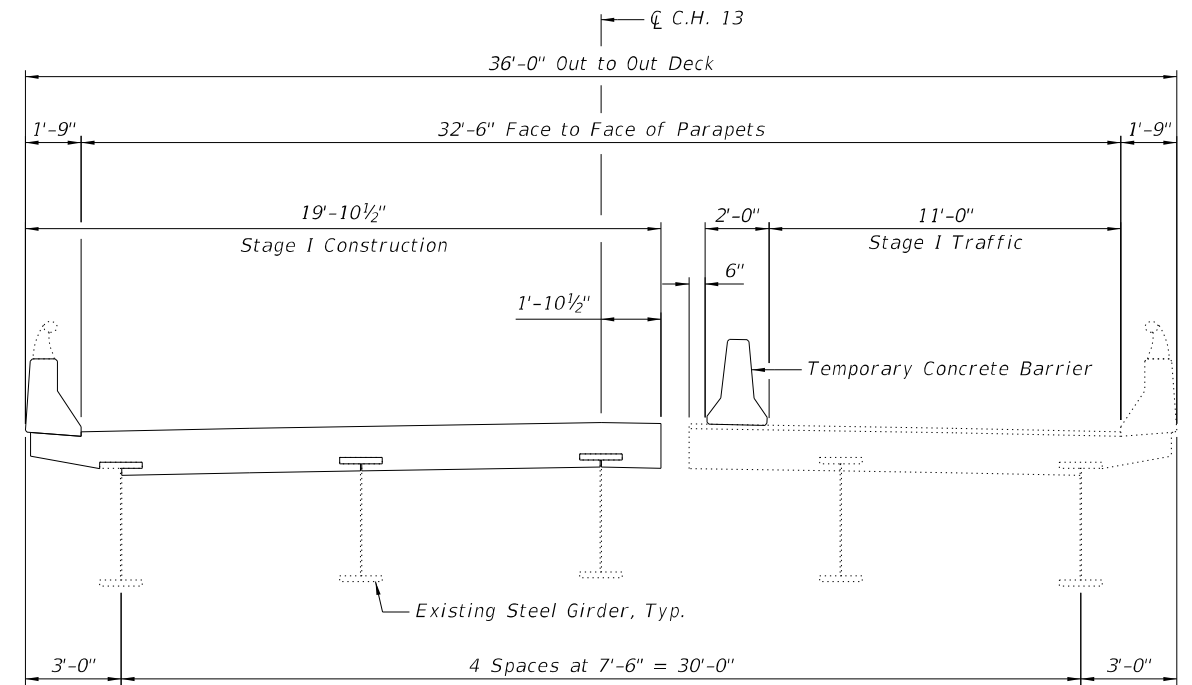
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CONTRACT NO. 66M69				

ILLINOIS FED. AID PROJECT

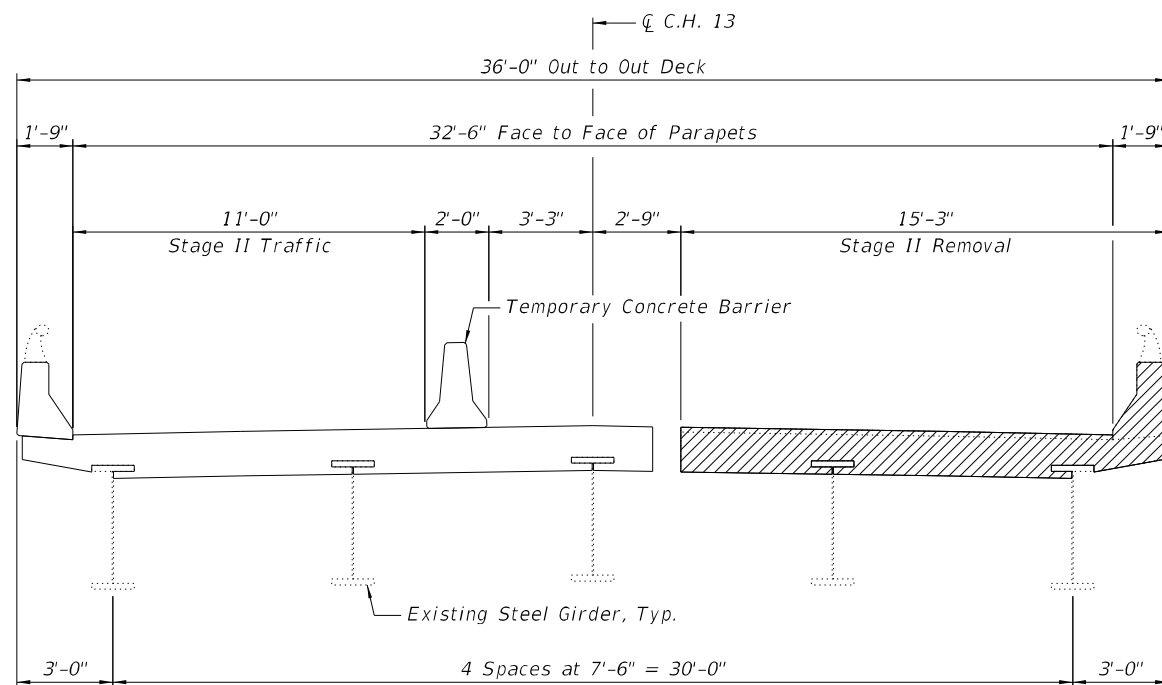
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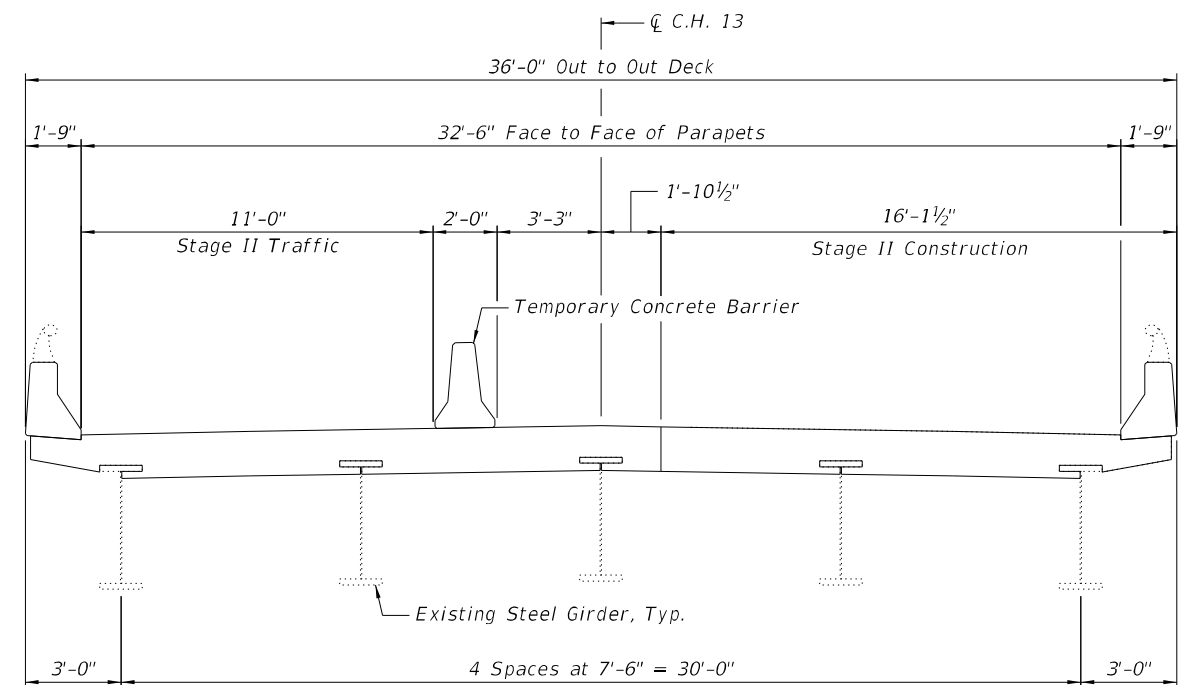
STAGE I EXPANSION JOINT REMOVAL
 (Looking Upstation)



STAGE I EXPANSION JOINT CONSTRUCTION
 (Looking Upstation)



STAGE II EXPANSION JOINT REMOVAL
 (Looking Upstation)



STAGE II EXPANSION JOINT CONSTRUCTION
 (Looking Upstation)



USER NAME =	DESIGNED - P. SARICH	REVISED -
PLOT SCALE =	CHECKED - I. LOPEZ	REVISED -
PLOT DATE =	DRAWN - P. SARICH	REVISED -
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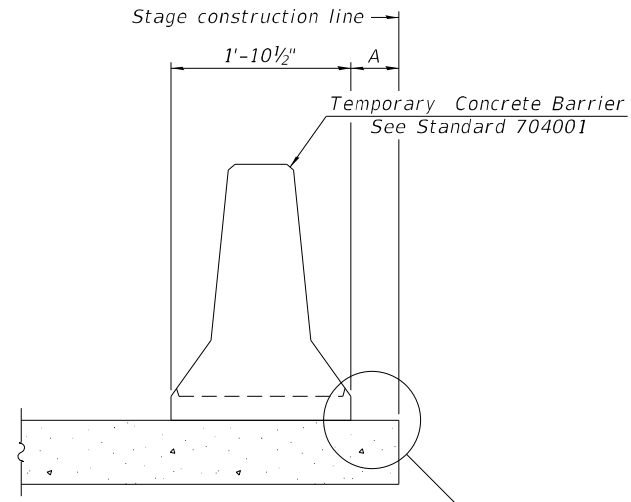
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**STAGE CONSTRUCTION DETAILS II
 STRUCTURE NO. 050-0093**

SHEET 4 OF 28 SHEETS

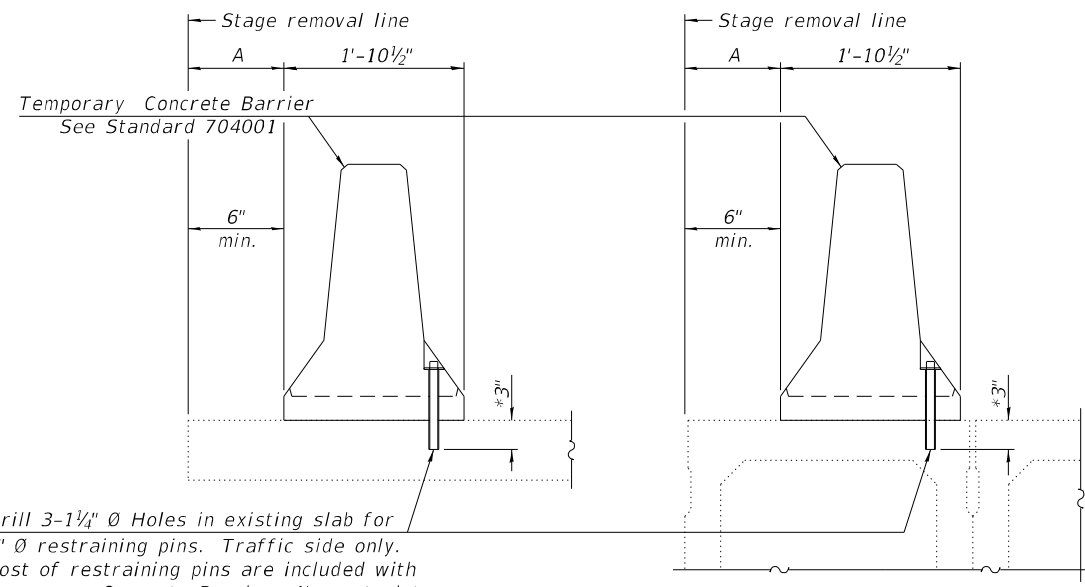
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CONTRACT NO. 66M69				
ILLINOIS		FED. AID PROJECT		

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 1/19/2023 12:53:07 PM



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



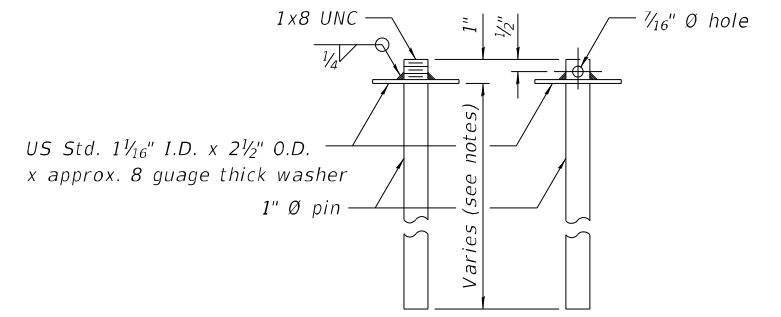
Drill 3-1/4" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

EXISTING SLAB

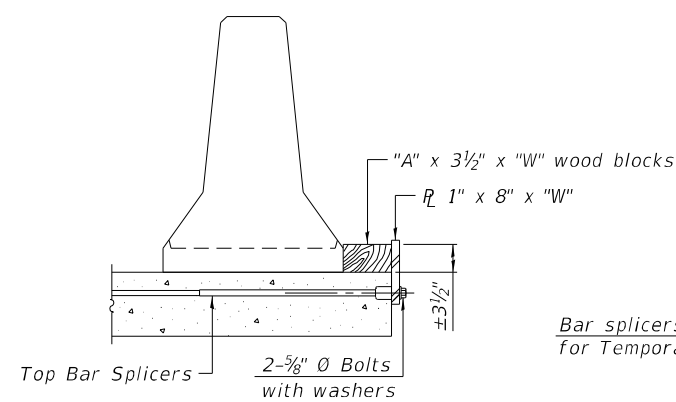
* When hot-mix asphalt wearing surface is present, embedment shall be 3" plus the wearing surface depth.

EXISTING DECK BEAM

SECTIONS THRU SLAB OR DECK BEAM

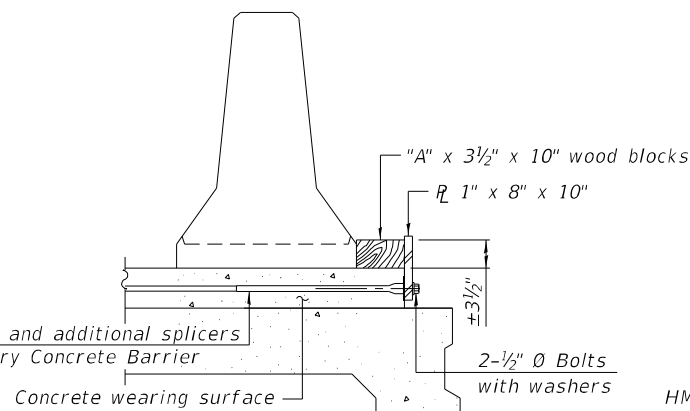


RESTRAINING PIN

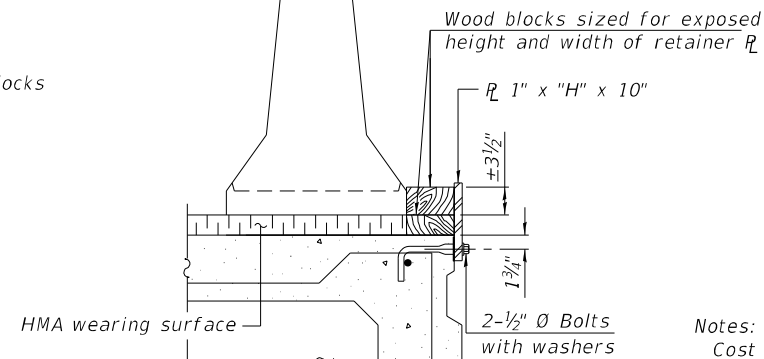


DETAIL I

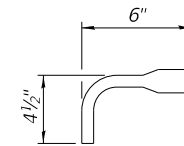
Bar splicers and additional splicers for Temporary Concrete Barrier



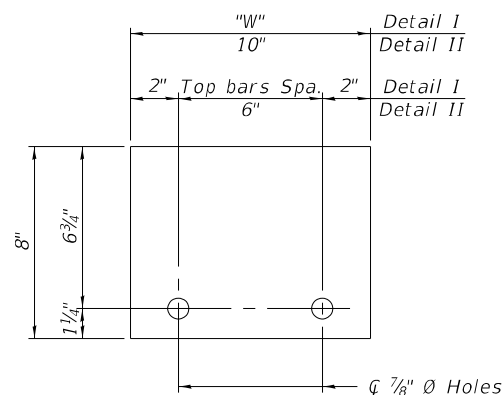
DETAIL II



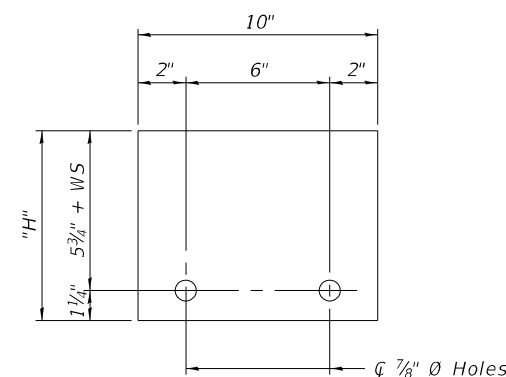
DETAIL III



BAR SPLICER FOR #4 BAR - DETAIL III



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



STEEL RETAINER 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 \bar{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.

R-27 2-17-2017



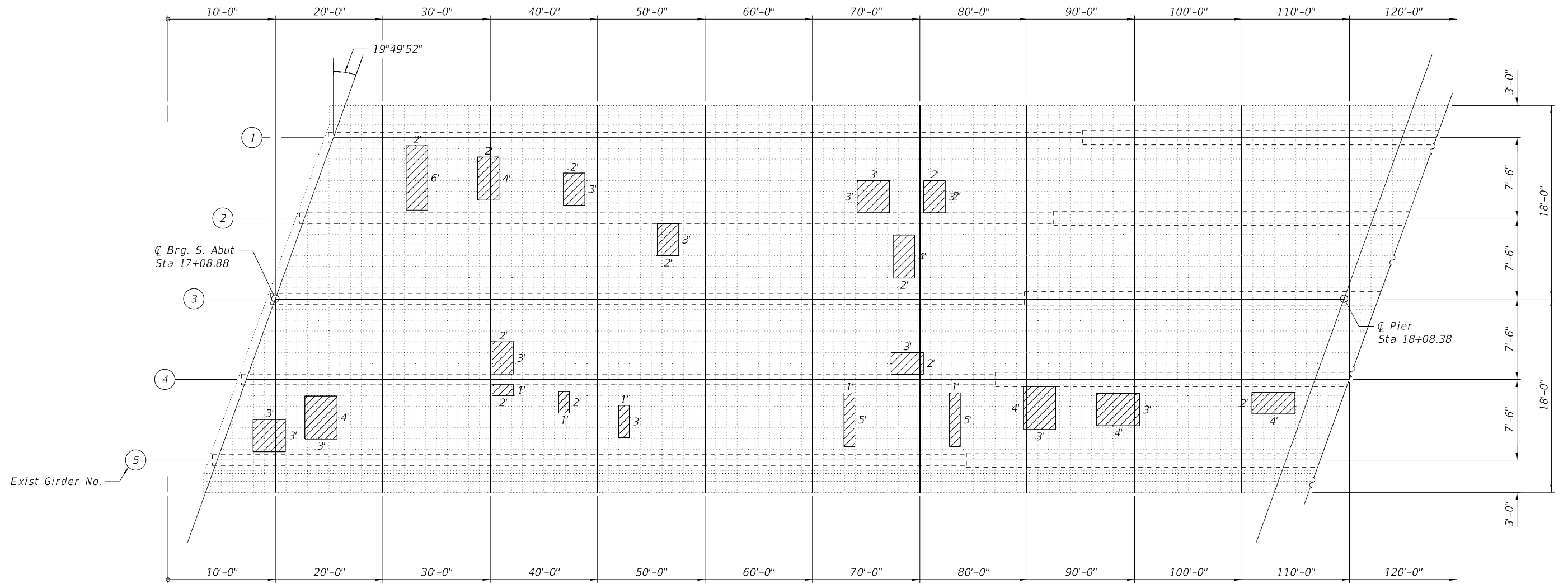
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PLOT SCALE =	CHECKED - I. LOPEZ	REVISED -
PLOT DATE =	DRAWN - P. SARICH	REVISED -
	CHECKED - P. SARICH	REVISED -

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 DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER DETAILS
 STRUCTURE NO. 050-0093

SHEET 5 OF 28 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
260	[(50-2) BR-10, BR-13] BJR, BDR	LASALLE	64	20
CONTRACT NO. 66M69				
ILLINOIS		FED. AID PROJECT		



PARTIAL PLAN

LEGEND

- Full Depth Deck Repair
- 1' X 1' Gridlines

NOTE

Areas of deck repair shown are estimated. The engineer shall sound the entire deck area after wearing surface removal to determine exact locations and areas of repairs. Areas of actual repairs shall be shown on "As-Built" plans.

MODEL: Default
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USER NAME = _____	DESIGNED - P. SARICH	REVISED - _____
	CHECKED - I. LOPEZ	REVISED - _____
PLOT SCALE = _____	DRAWN - P. SARICH	REVISED - _____
PLOT DATE = _____	CHECKED - P. SARICH	REVISED - _____

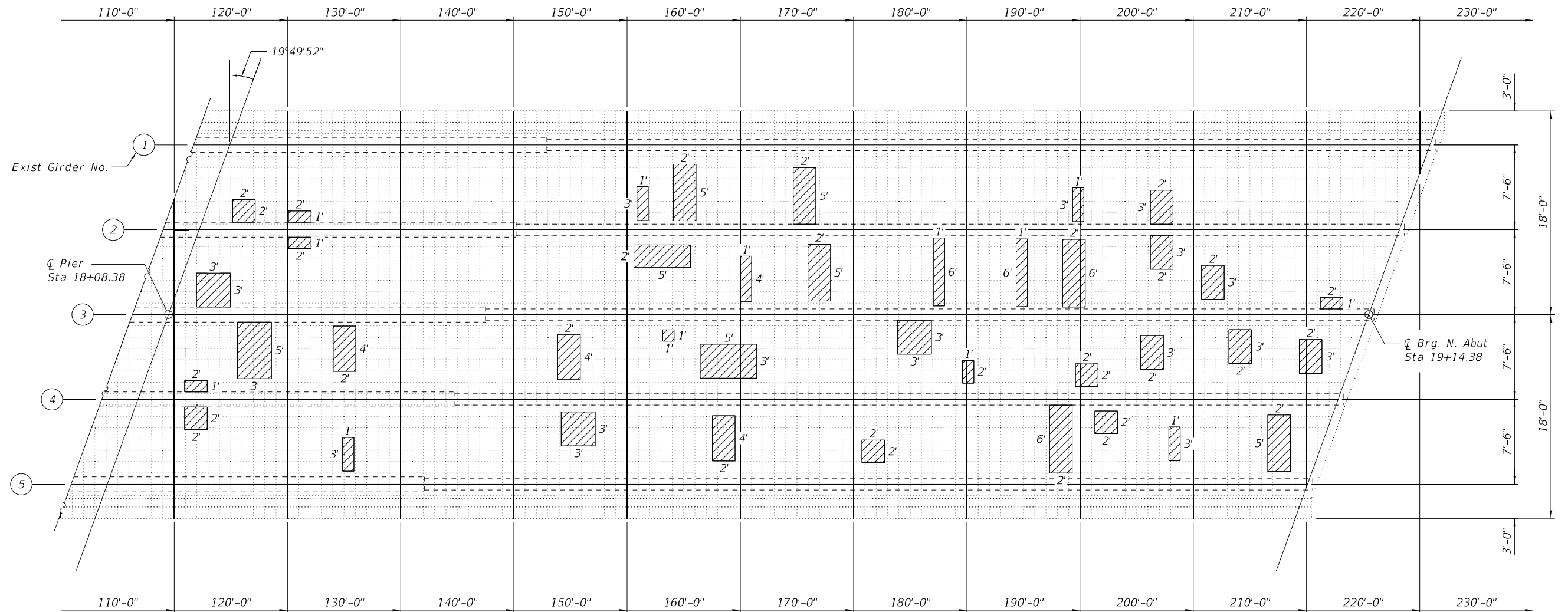
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DECK SLAB REPAIR PLAN I
STRUCTURE NO. 050-0093**

SHEET 6 OF 28 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
260	[(50-2) BR-10, BR-13] BJR, BDR	LASALLE	64	21
CONTRACT NO. 66M69				

ILLINOIS FED. AID PROJECT



PARTIAL PLAN

LEGEND

- Full Depth Deck Repair
- 1' X 1' Gridlines

NOTE

Areas of deck repair shown are estimated. The engineer shall sound the entire deck area after wearing surface removal to determine exact locations and areas of repairs. Areas of actual repairs shall be shown on "As-Built" plans.

BILL OF MATERIAL

Item	Unit	Total
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	8
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	36

MODEL: Default
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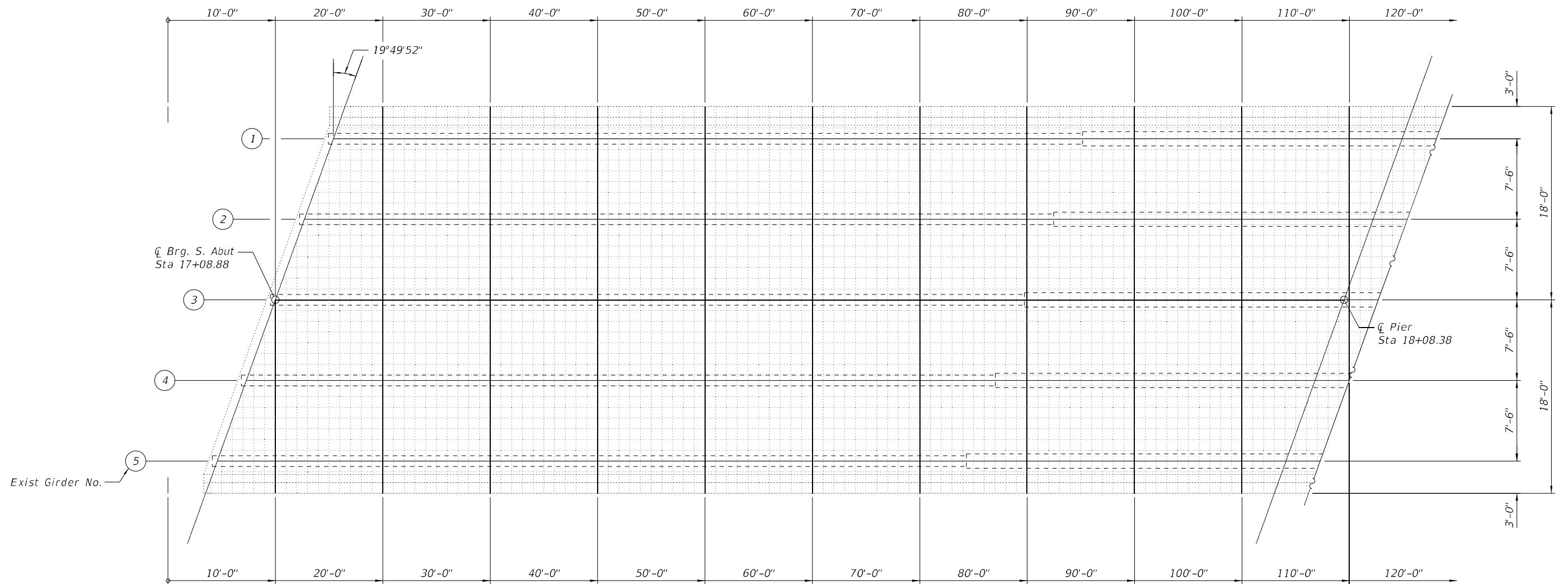
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PLOT SCALE = _____	CHECKED - I. LOPEZ	REVISED - _____
PLOT DATE = _____	DRAWN - P. SARICH	REVISED - _____
	CHECKED - P. SARICH	REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DECK SLAB REPAIR PLAN II
STRUCTURE NO. 050-0093**



SHEET 7 OF 28 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
260	[(50-2) BR-10, BR-13] BJR, BDR	LASALLE	64	22
CONTRACT NO. 66M69				
ILLINOIS		FED. AID PROJECT		



PARTIAL PLAN

LEGEND

-  Full Depth Deck Repair
-  1' X 1' Gridlines

NOTE

The engineer shall mark the actual area and locations of deck slab repair as part of the "As-Built" plans.

MODEL: Default
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USER NAME = _____	DESIGNED - P. SARICH	REVISED - _____
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PLOT SCALE = _____	DRAWN - P. SARICH	REVISED - _____
PLOT DATE = _____	CHECKED - P. SARICH	REVISED - _____

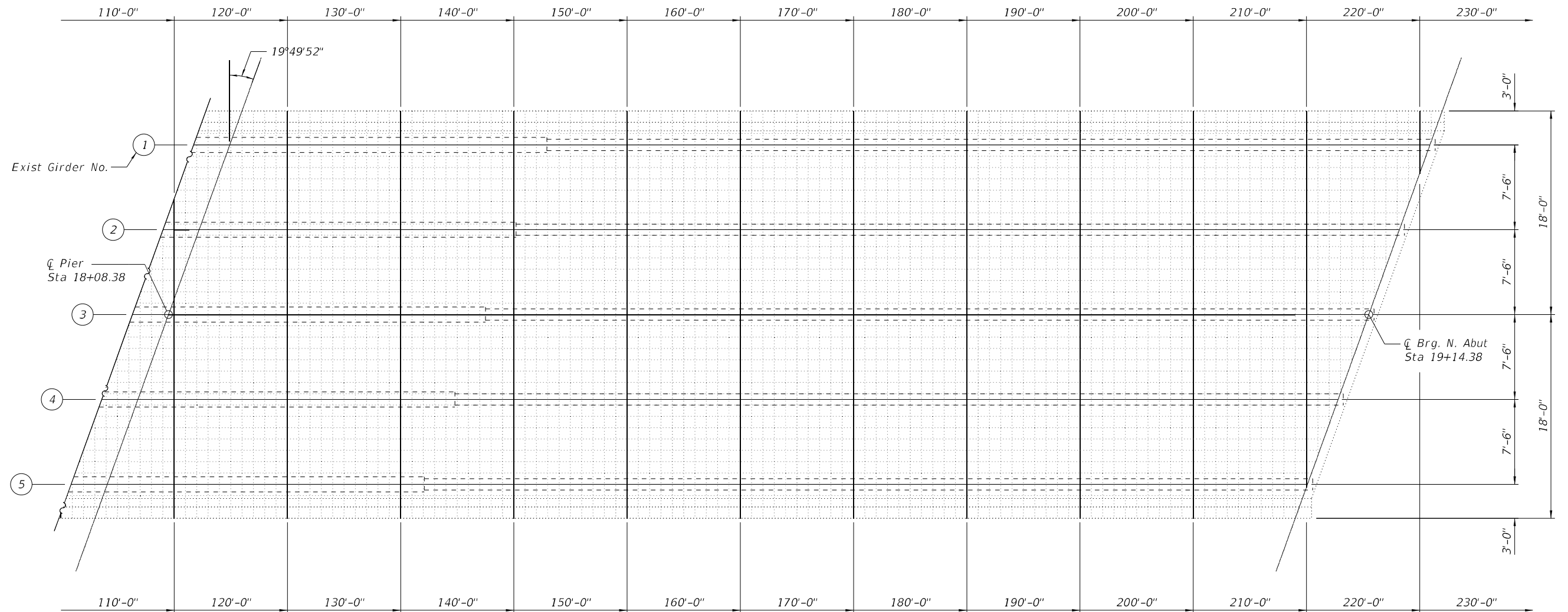
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DECK SLAB REPAIR PLAN I (AS-BUILT)
STRUCTURE NO. 050-0093**

SHEET 8 OF 28 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
260	[(50-2) BR-10, BR-13] BJR, BDR	LASALLE	64	23
CONTRACT NO. 66M69				

ILLINOIS FED. AID PROJECT



PARTIAL PLAN

LEGEND

- Full Depth Deck Repair
- 1' X 1' Gridlines

NOTE

The engineer shall mark the actual area and locations of deck slab repair as part of the "As-Built" plans.

BILL OF MATERIAL

Item	Unit	Total
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	

MODEL: Default
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

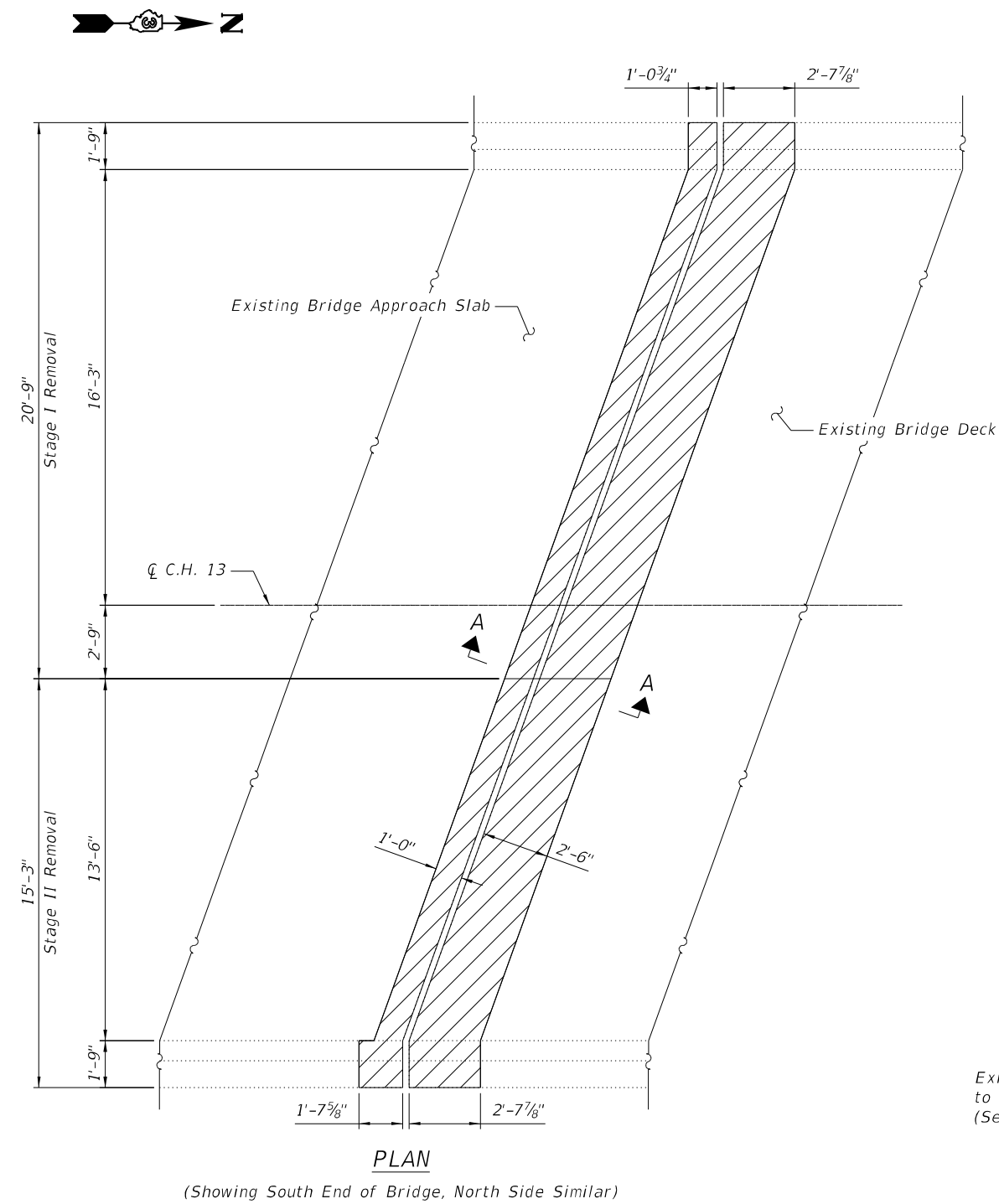
**DECK SLAB REPAIR PLAN II (AS-BUILT)
STRUCTURE NO. 050-0093**

SHEET 9 OF 28 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
260	[(50-2) BR-10, BR-13] BJR, BDR	LASALLE	64	24
CONTRACT NO. 66M69				

ILLINOIS FED. AID PROJECT

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PLAN

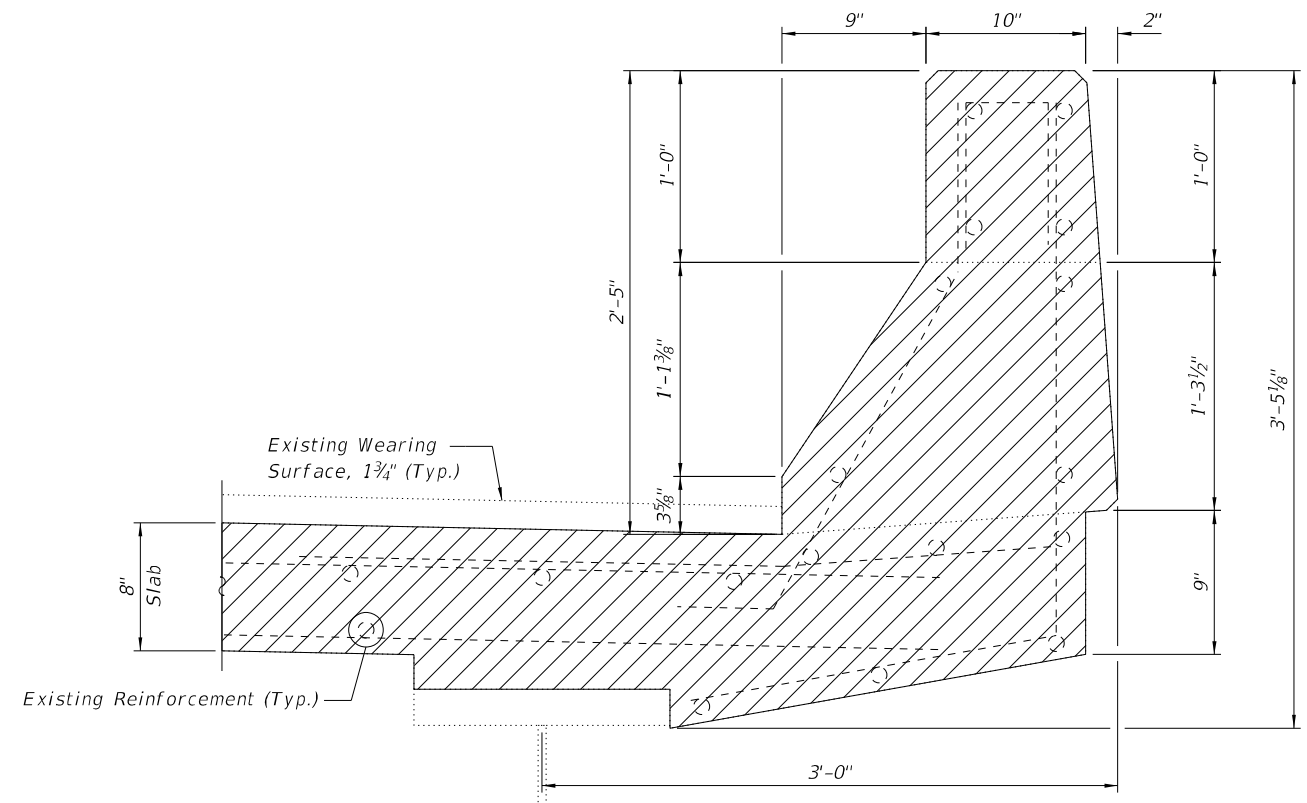
(Showing South End of Bridge, North Side Similar)

LEGEND

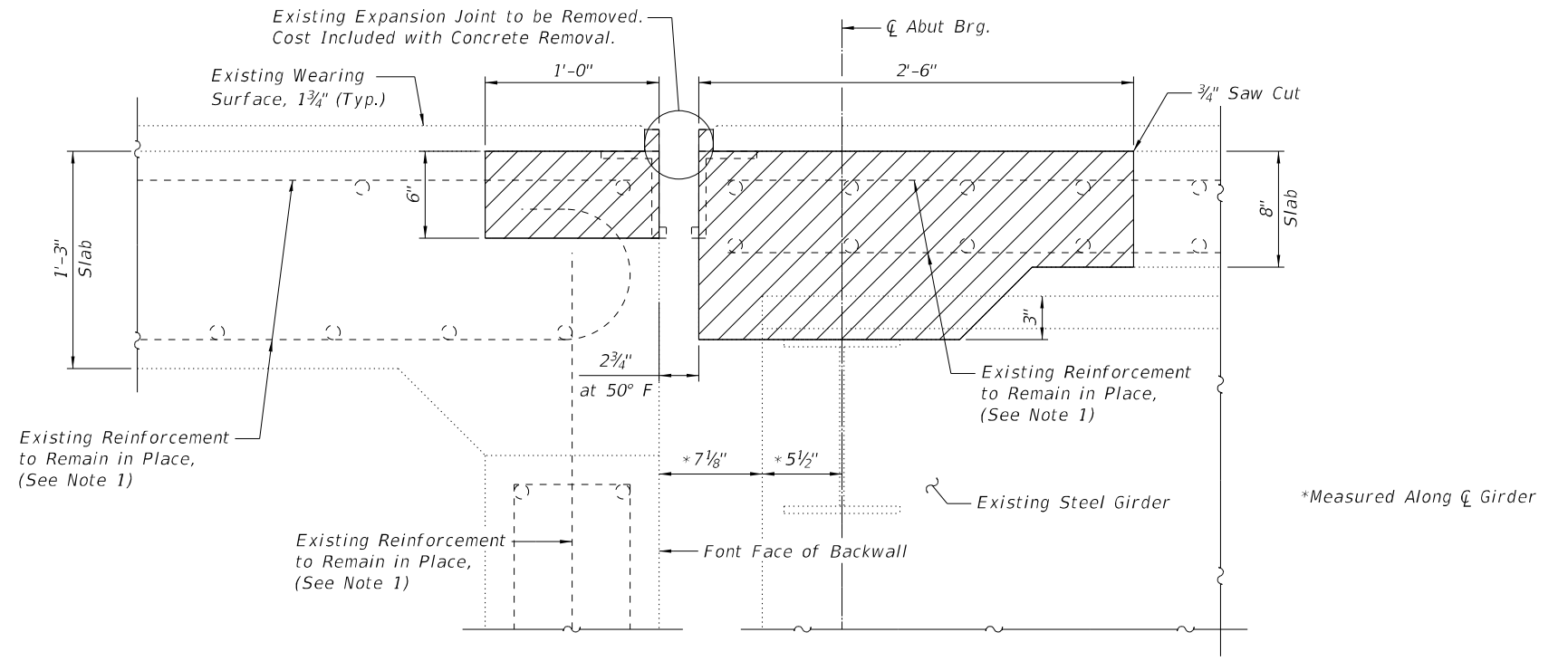
Limits of Removal

NOTES

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



SECTION THRU PARAPET



SECTION A-A

BILL OF MATERIAL

Item	Unit	Total
Concrete Removal	Cu. Yd.	10



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	CHECKED - P. SARICH	REVISED -

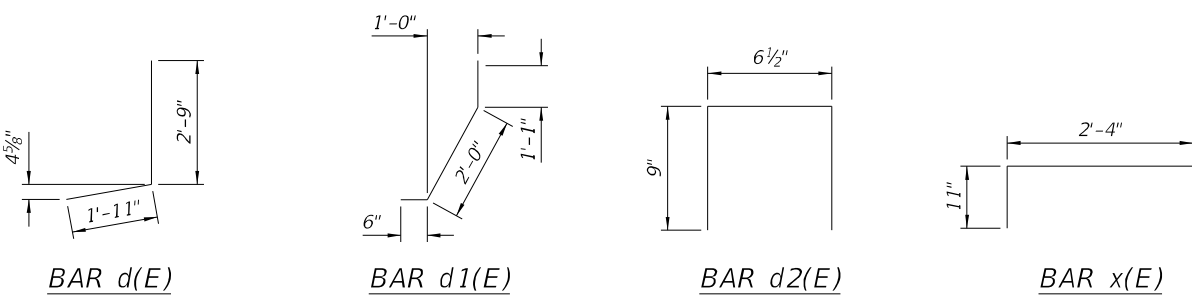
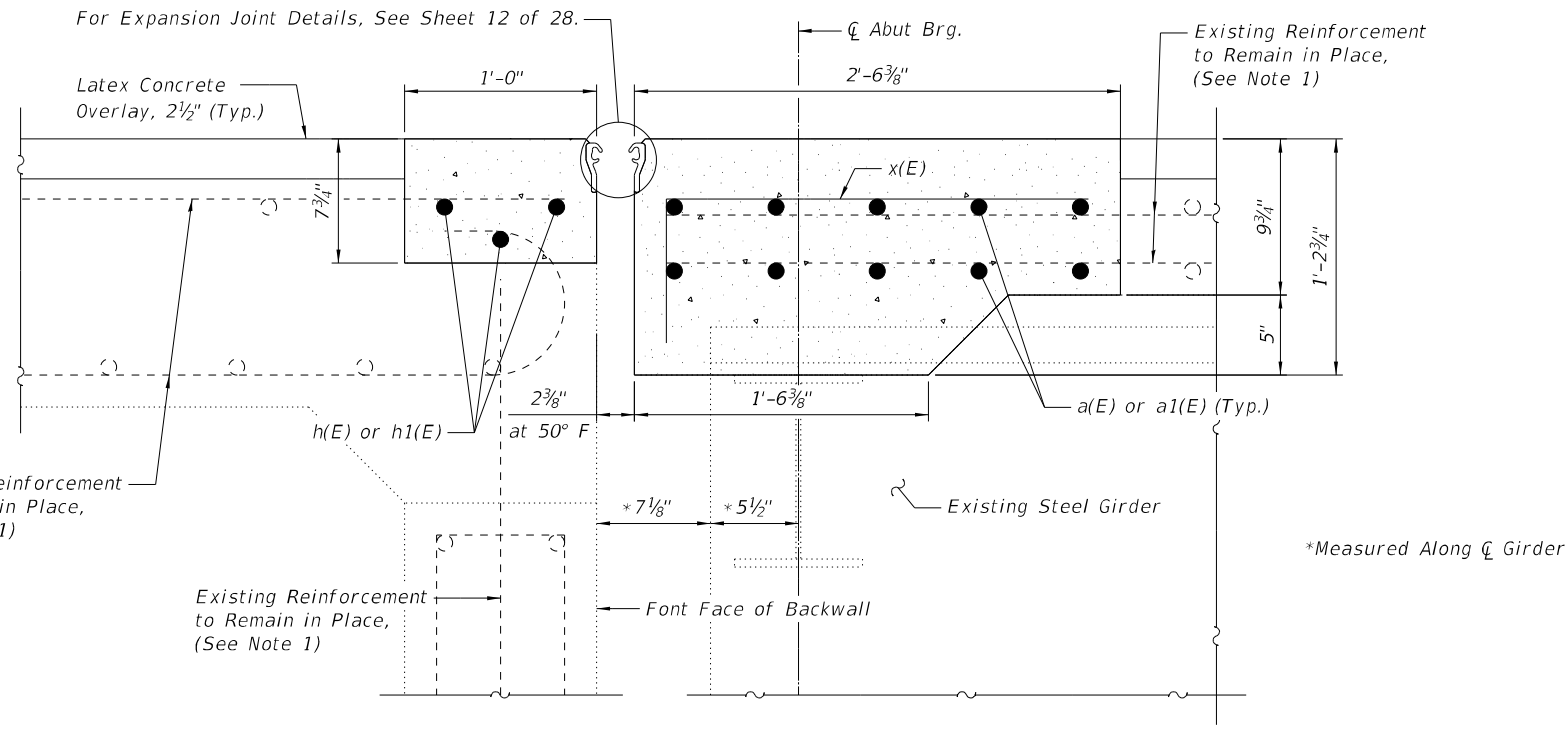
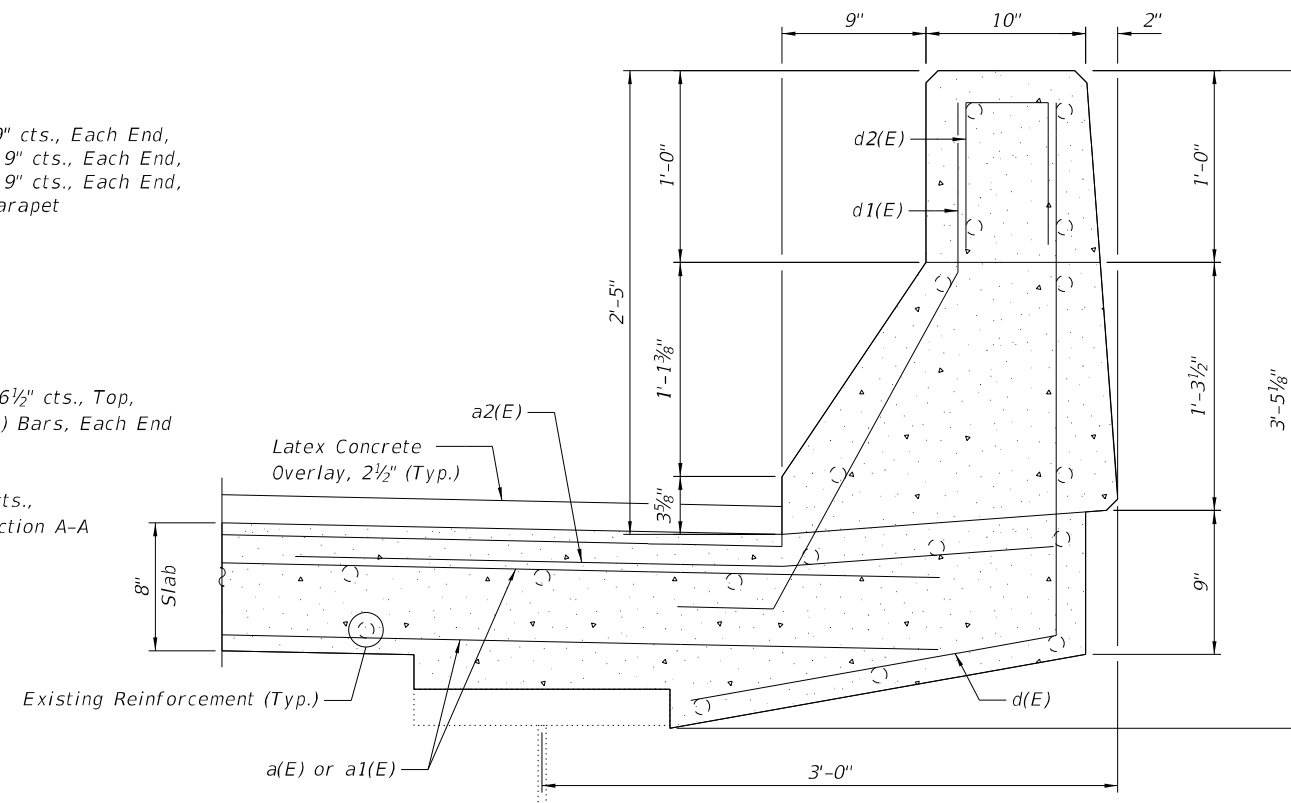
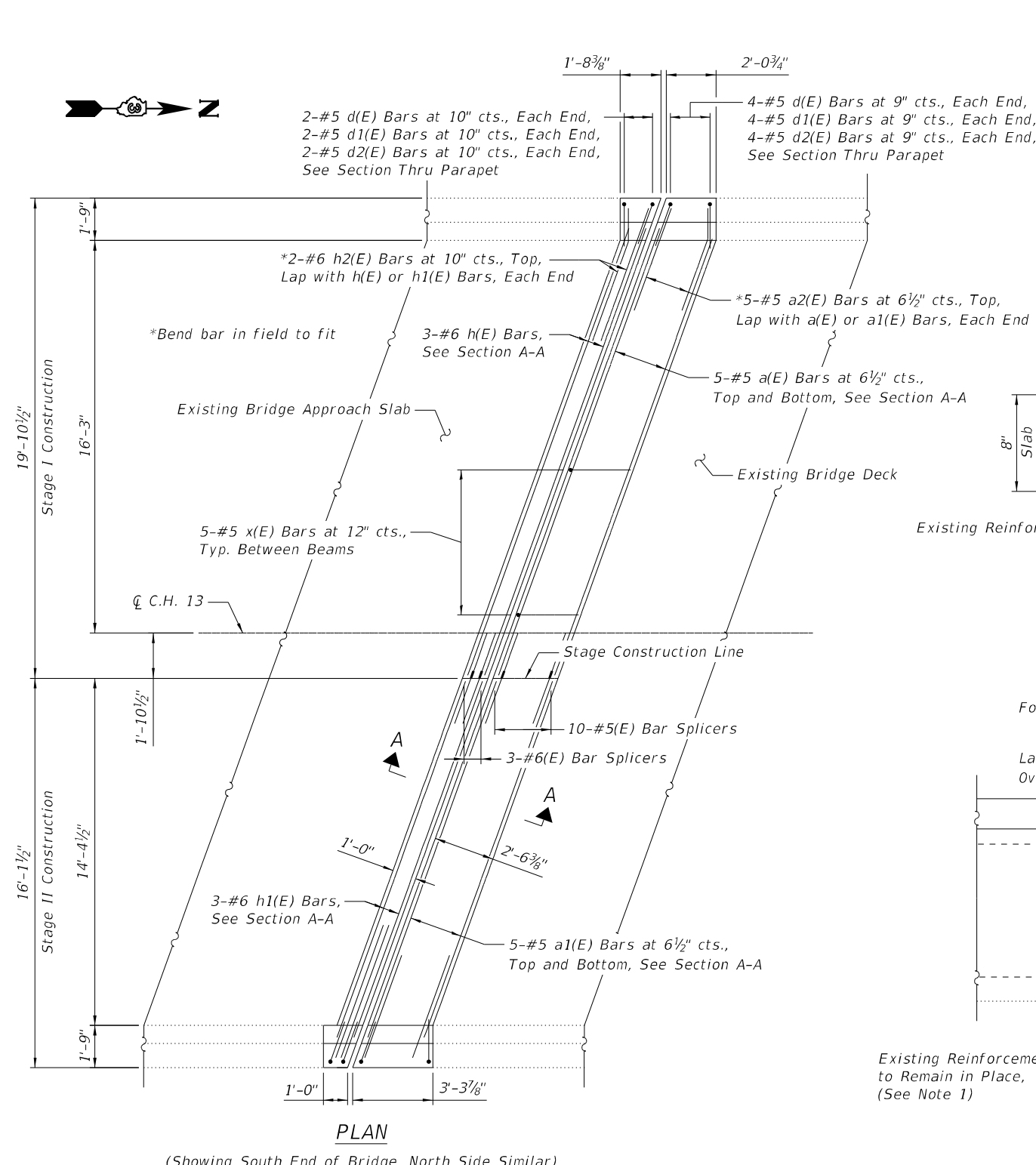
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**EXPANSION JOINT REMOVAL DETAILS
 STRUCTURE NO. 050-0093**

SHEET 10 OF 28 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
260	[(50-2) BR-10, BR-13] BJR, BDR	LASALLE	64	25
CONTRACT NO. 66M69				
ILLINOIS		FED. AID PROJECT		

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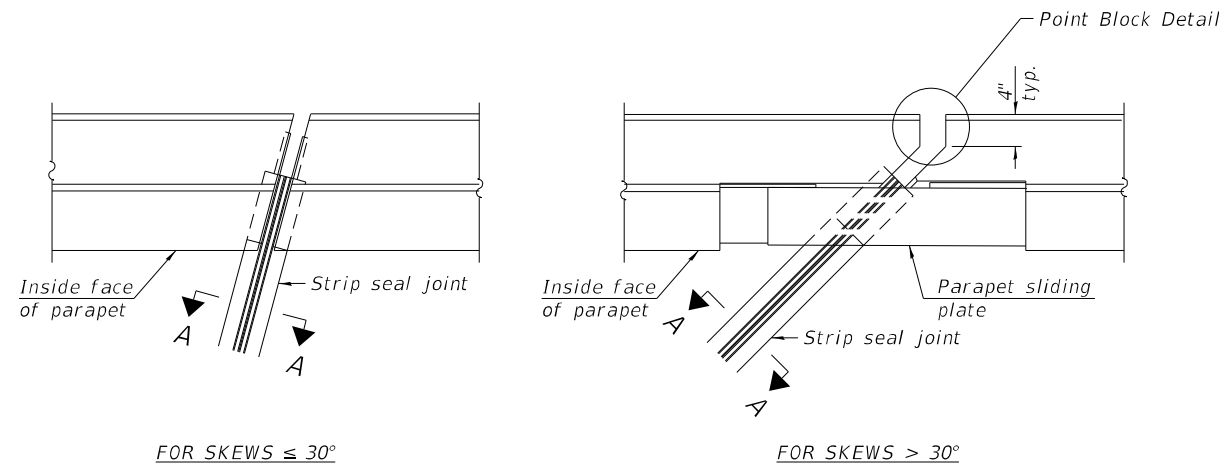


SUPERSTRUCTURE
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	20	#5	19'-10"	—
a1(E)	20	#5	15'-10"	—
a2(E)	20	#5	4'-6"	—
d(E)	24	#5	4'-8"	J
d1(E)	24	#5	3'-7"	J
d2(E)	24	#5	2'-1"	□
h(E)	6	#6	19'-10"	—
h1(E)	6	#6	15'-10"	—
h2(E)	8	#6	5'-10"	—
x(E)	40	#5	3'-3"	—
Reinforcement Bars, Epoxy Coated		Lbs.	1,630	
Concrete Superstructure		Cu. Yds.	12.0	
Bar Splicers		Each	26	

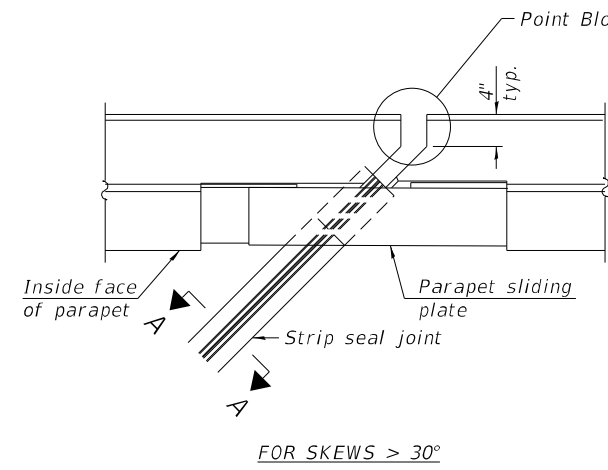
- NOTES**
- Existing longitudinal reinforcement shown are to be cleaned and incorporated into new construction.
 - Bar list and bill of material shown on sheet is for both expansion joint locations.

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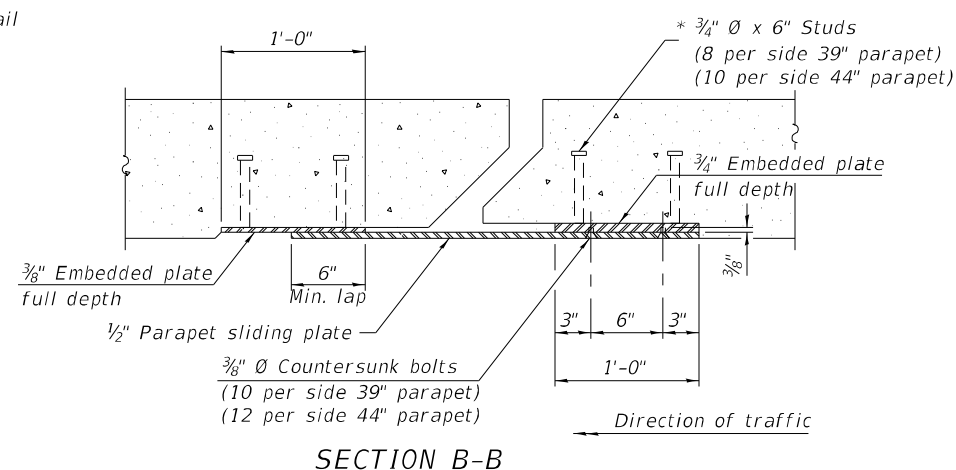


FOR SKEWS $\leq 30^\circ$

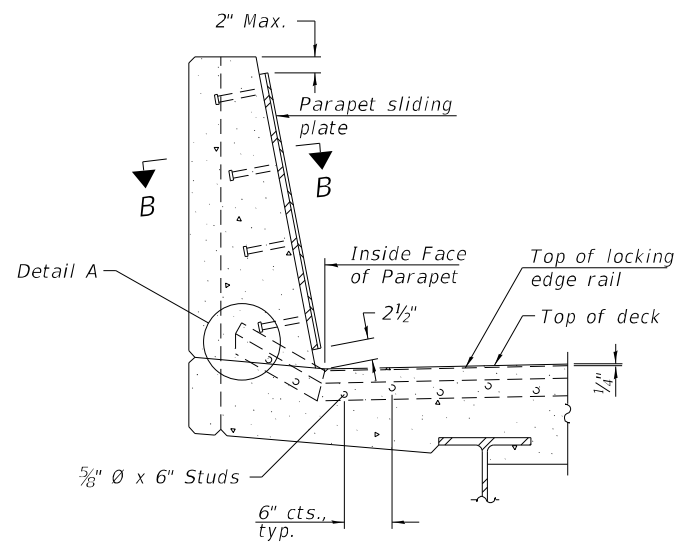
PLAN AT PARAPET



FOR SKEWS $> 30^\circ$

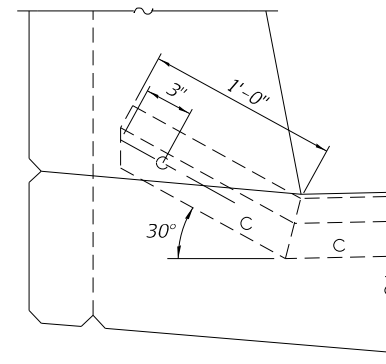


SECTION B-B

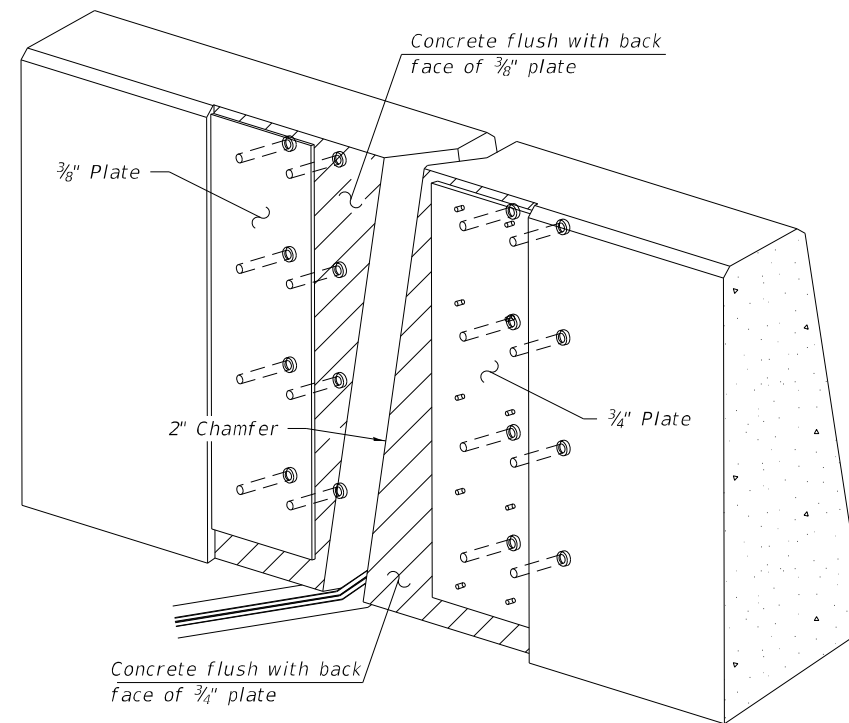


SECTION AT PARAPET

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

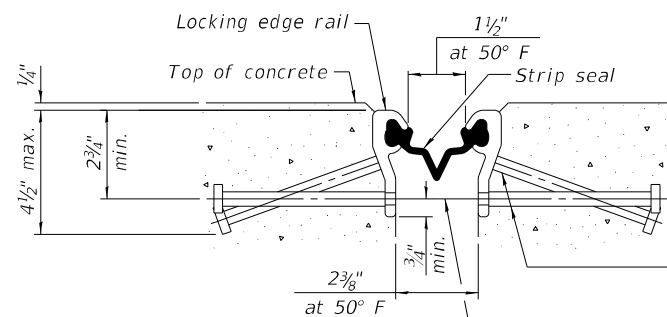


DETAIL A



TRIMETRIC VIEW

(Showing embedded plates only)



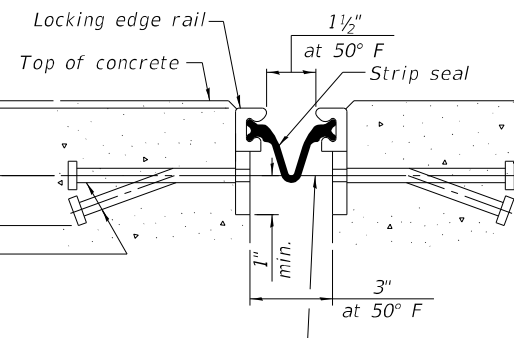
SHOWING ROLLED RAIL JOINT

* $5/8$ inch diameter x 6 inch studs @ 6 inch cts. (alternate angled/bent studs with horizontal studs)

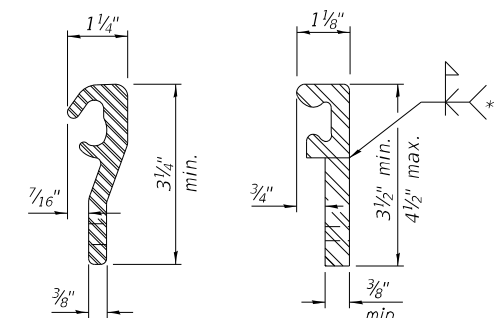
$3/8$ inch diameter threaded rods in $1/16$ inch diameter holes at ± 4 -0 inch cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

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

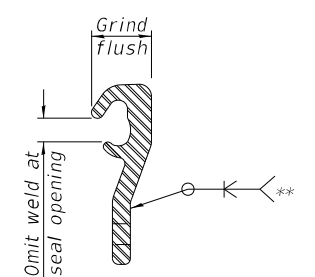


ROLLED (EXTRUDED) RAIL

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
Prefomed Joint Strip Seal	Foot	77

EJ-SS

1-1-2020



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PLOT SCALE	=	CHECKED - I. LOPEZ	REVISED -
PLOT DATE	=	DRAWN - P. SARICH	REVISED -
		CHECKED - P. SARICH	REVISED -

STATE OF ILLINOIS
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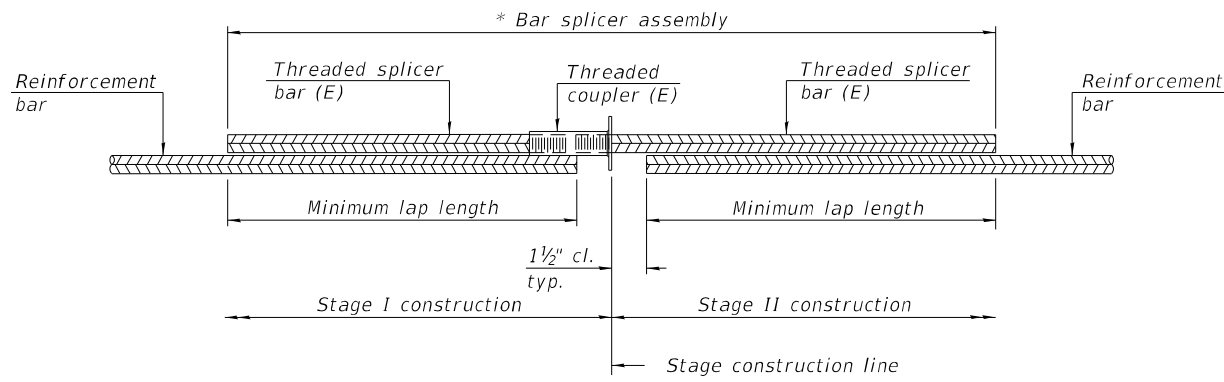
PREFORMED JOINT STRIP SEAL
 STRUCTURE NO. 050-0093

SHEET 12 OF 28 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
260	[(50-2) BR-10, BR-13] BJR, BDR	LASALLE	64	27
CONTRACT NO. 66M69				

ILLINOIS FED. AID PROJECT

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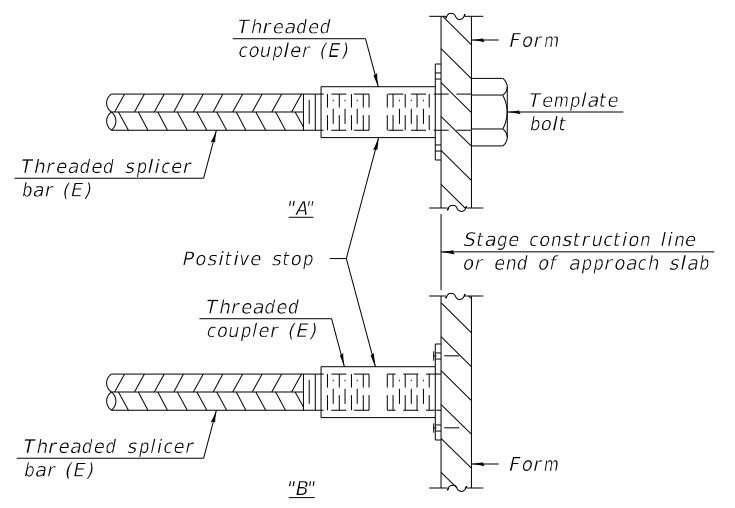


STANDARD BAR SPLICER ASSEMBLY PLAN
 (All components shall be provided from one supplier)

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

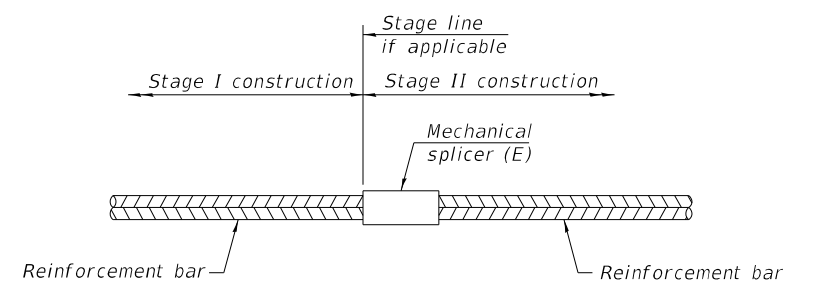
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
S. Exp. Joint	#5	10	3'-6"
S. Exp. Joint	#6	3	4'-0"
N. Exp. Joint	#5	10	3'-6"
N. Exp. Joint	#6	3	4'-0"



INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.
 "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
 (E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required

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

BSD-1

1-1-2020



USER NAME = _____	DESIGNED - P. SARICH	REVISED - _____
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PLOT SCALE = _____	DRAWN - P. SARICH	REVISED - _____
PLOT DATE = _____	CHECKED - P. SARICH	REVISED - _____

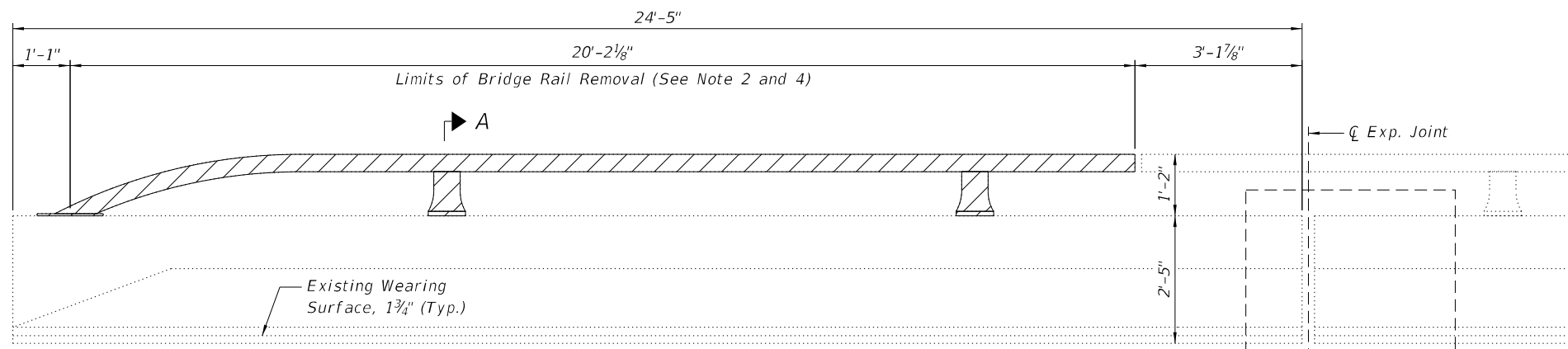
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
 STRUCTURE NO. 050-0093

SHEET 13 OF 28 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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ILLINOIS			CONTRACT NO. 66M69	
FED. AID PROJECT				

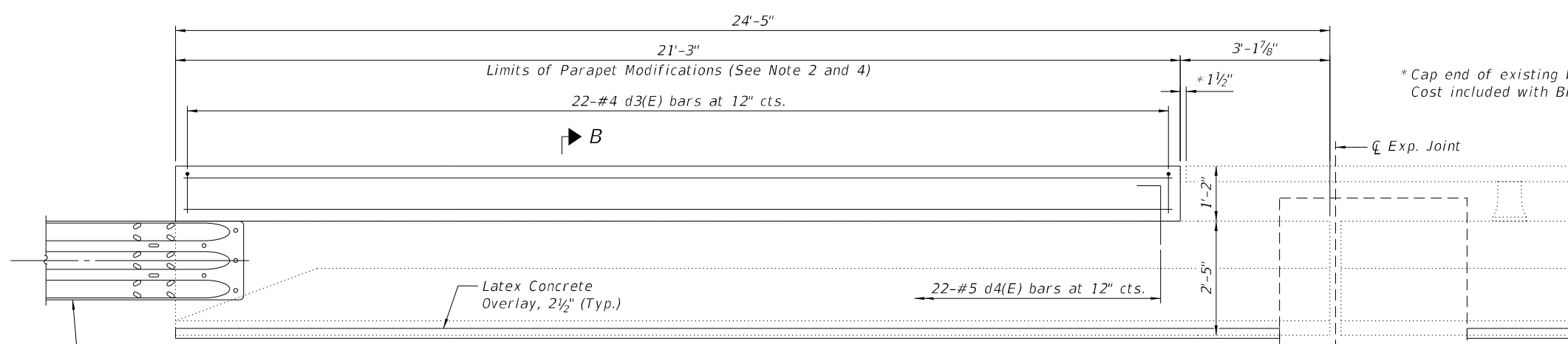
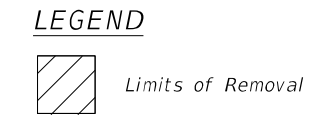
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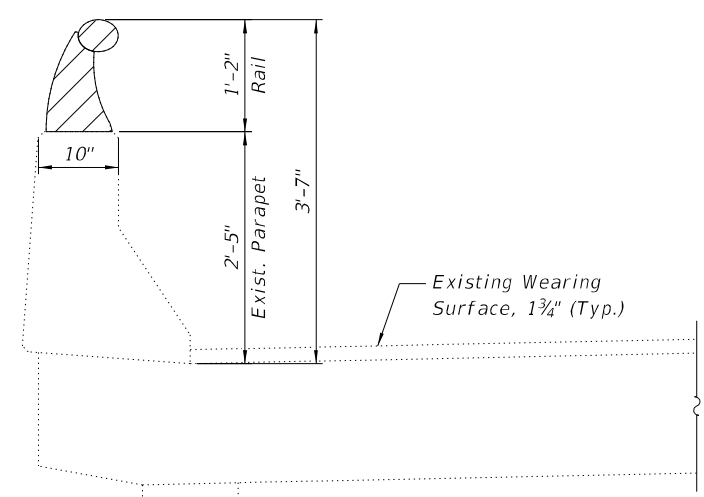
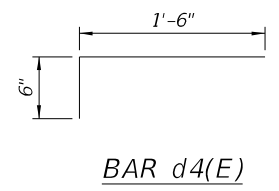
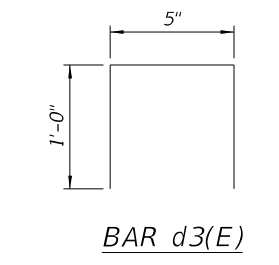
APPROACH SLAB BARRIER REMOVAL
 (Showing Southwest Approach Barrier, All Others Similar)

SUPERSTRUCTURE BILL OF MATERIAL

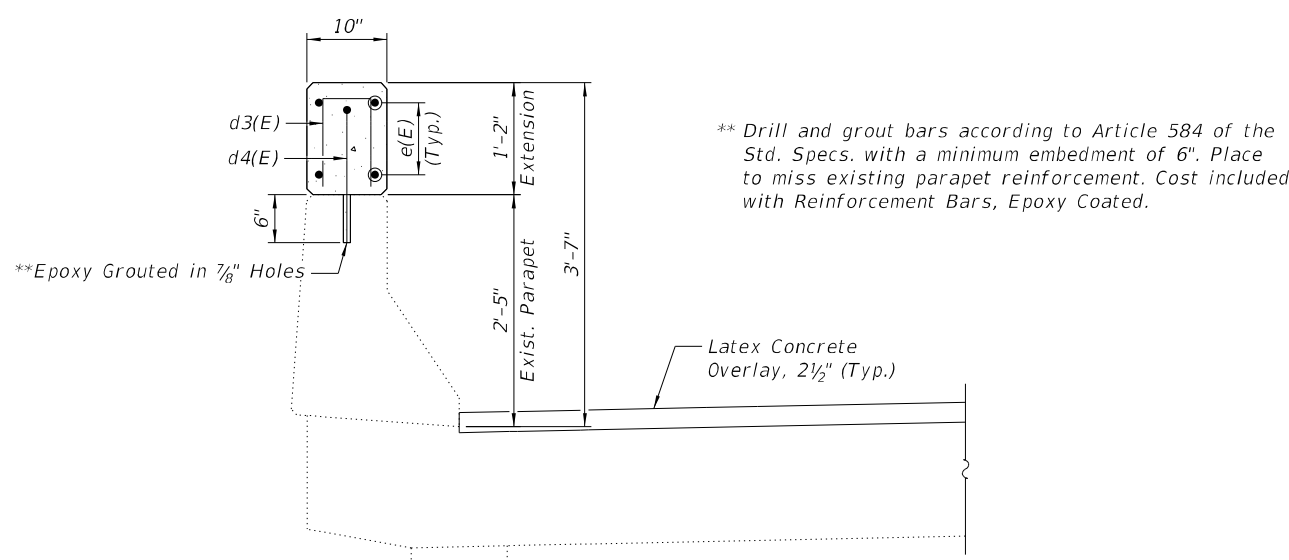
Bar	No.	Size	Length	Shape
d3(E)	88	#4	2'-5"	□
d4(E)	88	#5	2'-0"	□
e(E)	16	#4	20'-9"	—
Reinforcement Bars, Epoxy Coated			Lbs.	550
Bridge Rail Removal			Foot	81
Concrete Superstructure			Cu. Yds.	4.0



APPROACH SLAB BARRIER CONSTRUCTION
 (Showing Southwest Approach Barrier, All Others Similar)



SECTION A-A



SECTION B-B

NOTES

1. Bar list and bill of material shown on sheet is for all 4 locations of parapet modifications.
2. Contractor shall confirm length of existing rail to expansion coupler prior to ordering bar list and adjust as necessary.
3. Parapet modifications required for expansion joint replacement not shown on this sheet for clarity. See sheet 11 of 28 for details.
4. Modification of east parapets shall be done simultaneously with the construction of the roadway shoulder during Prestage to allow installation of new guardrail and guardrail connection prior to shifting traffic for Stage 1 operations. See Maintenance of Traffic Plans for Details.



USER NAME =	DESIGNED - P. SARICH	REVISED -
PLOT SCALE =	CHECKED - I. LOPEZ	REVISED -
PLOT DATE =	DRAWN - P. SARICH	REVISED -
	CHECKED - P. SARICH	REVISED -

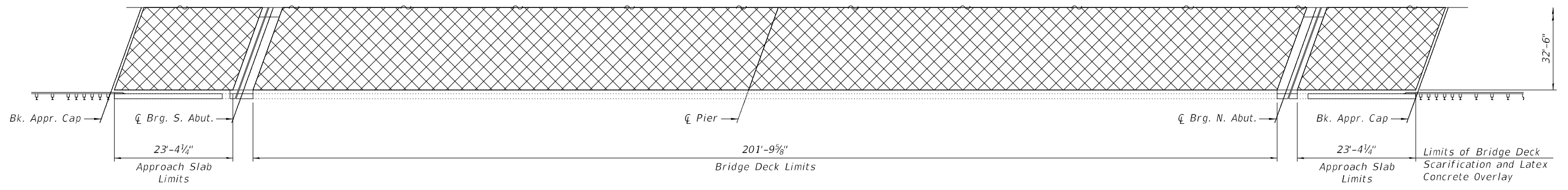
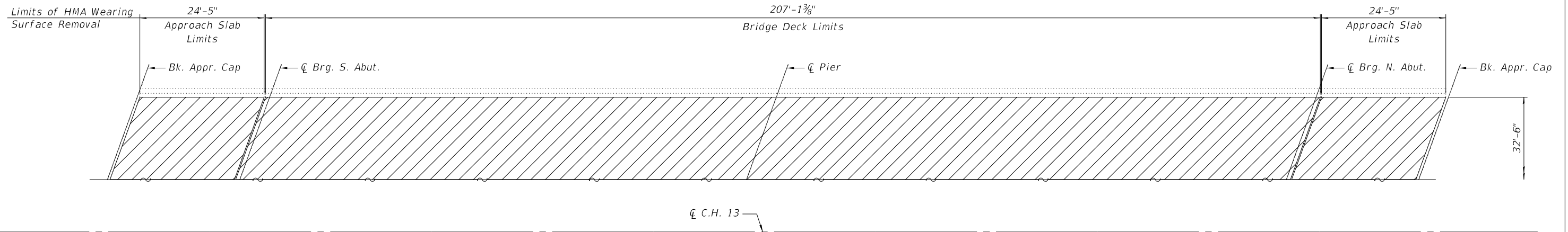
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SUPERSTRUCTURE DETAILS I
 STRUCTURE NO. 050-0093**

SHEET 14 OF 28 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
260	[(50-2) BR-10, BR-13] BJR, BDR	LASALLE	64	29
CONTRACT NO. 66M69				
ILLINOIS FED. AID PROJECT				

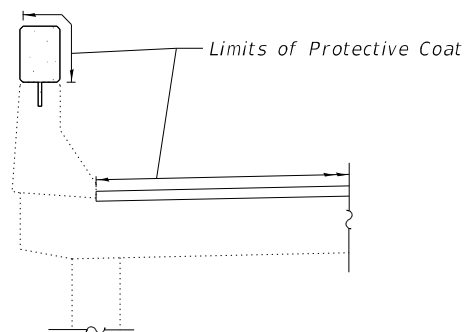
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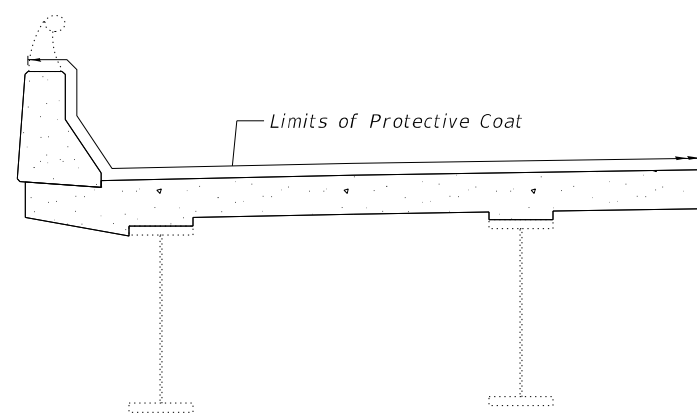
RESURFACING PAY LIMITS

LEGEND

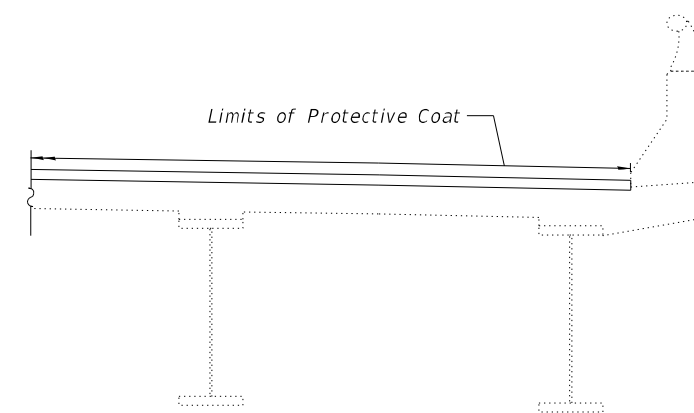
- Limits of HMA Wearing Surface Removal (1 3/4")
- Limits of Bridge Deck Scarification (3/4") and Bridge Deck Latex Concrete Overlay (2 1/2")



**PROTECTIVE COAT PAY LIMITS
ALONG APPROACH BARRIERS**



**PROTECTIVE COAT PAY LIMITS
AT EXPANSION JOINT**



**PROTECTIVE COAT PAY LIMITS
ALONG BRIDGE DECK**

BILL OF MATERIAL

Item	Unit	Total
Bridge Deck Grooving	Sq. Yd.	870
Protective Coat	Sq. Yd.	950
Hot-Mix Asphalt Surface Removal (Deck)	Sq. Yd.	925
Bridge Deck Latex Concrete Overlay, 2 1/2"	Sq. Yd.	898
Bridge Deck Scarification, 3/4"	Sq. Yd.	898



USER NAME =	DESIGNED - P. SARICH	REVISED -
	CHECKED - I. LOPEZ	REVISED -
PLOT SCALE =	DRAWN - P. SARICH	REVISED -
PLOT DATE =	CHECKED - P. SARICH	REVISED -

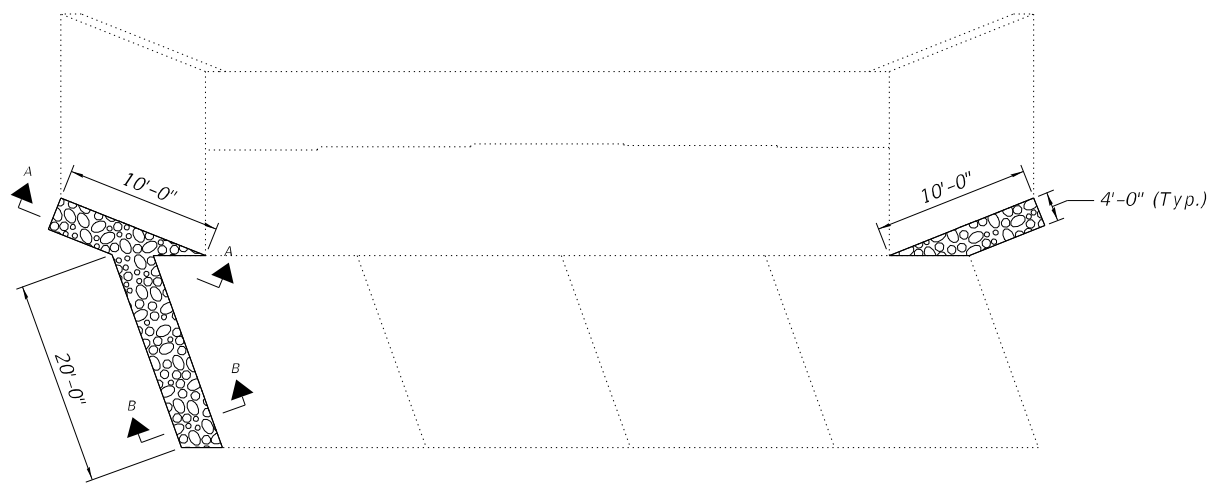
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUPERSTRUCTURE DETAILS II
STRUCTURE NO. 050-0093**

SHEET 15 OF 28 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
260	[(50-2) BR-10, BR-13] BJR, BDR	LASALLE	64	30
CONTRACT NO. 66M69				
ILLINOIS		FED. AID PROJECT		

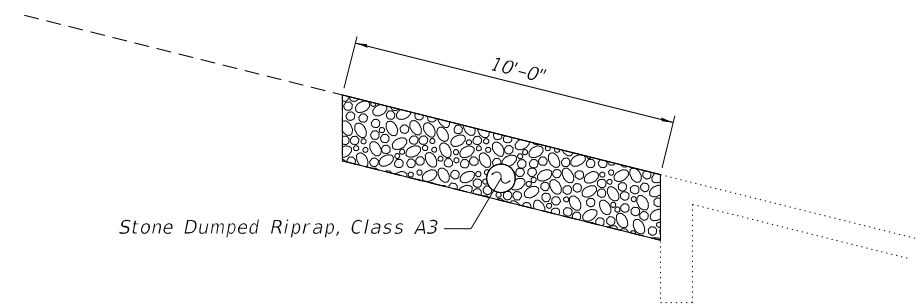
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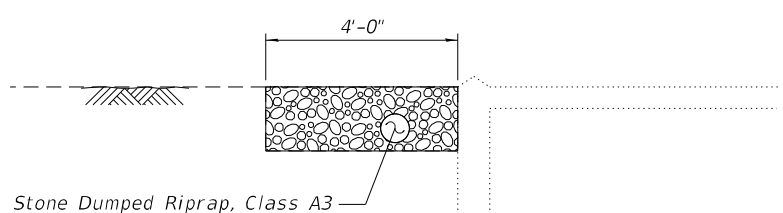
SOUTH ABUTMENT ELEVATION
 (View Shown with Wingwalls Unfolded for Clarity)



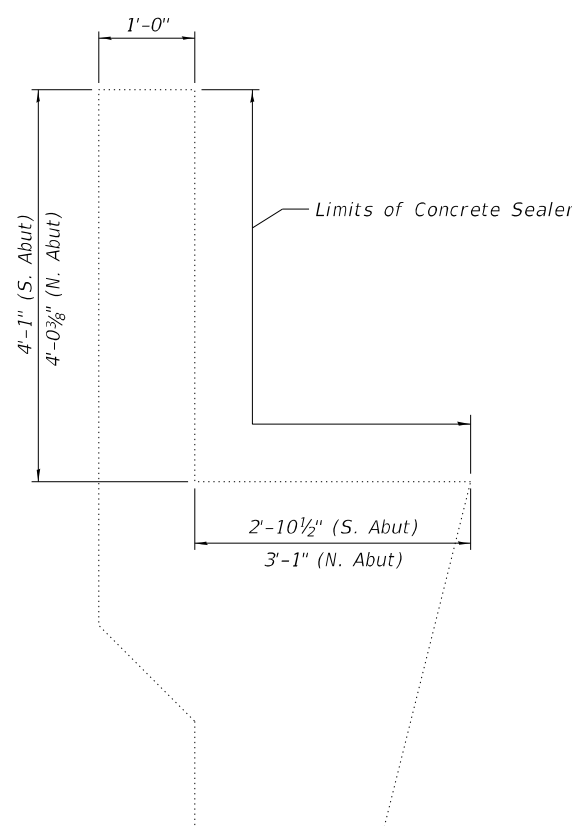
NORTH ABUTMENT ELEVATION
 (View Shown with Wingwalls Unfolded for Clarity)



SECTION A-A



SECTION B-B



LIMITS OF CONCRETE SEALER

BILL OF MATERIAL

Item	Unit	Total
Stone Dumped Riprap, Class A3	Sq. Yd.	27
Concrete Sealer	Sq. Ft.	487



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	CHECKED - I. LOPEZ	REVISED -
PLOT SCALE =	DRAWN - P. SARICH	REVISED -
PLOT DATE =	CHECKED - P. SARICH	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**WINGWALL AND SLOPEWALL REPAIRS
 STRUCTURE NO. 050-0093**

SHEET 16 OF 28 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
260	[(50-2) BR-10, BR-13] BJR, BDR	LASALLE	64	31
			CONTRACT NO. 66M69	
ILLINOIS		FED. AID PROJECT		

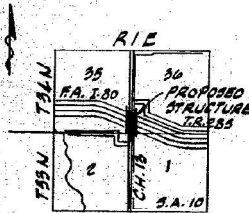
FOR INFORMATION ONLY

Sheet No. 1
of 12 Sheets

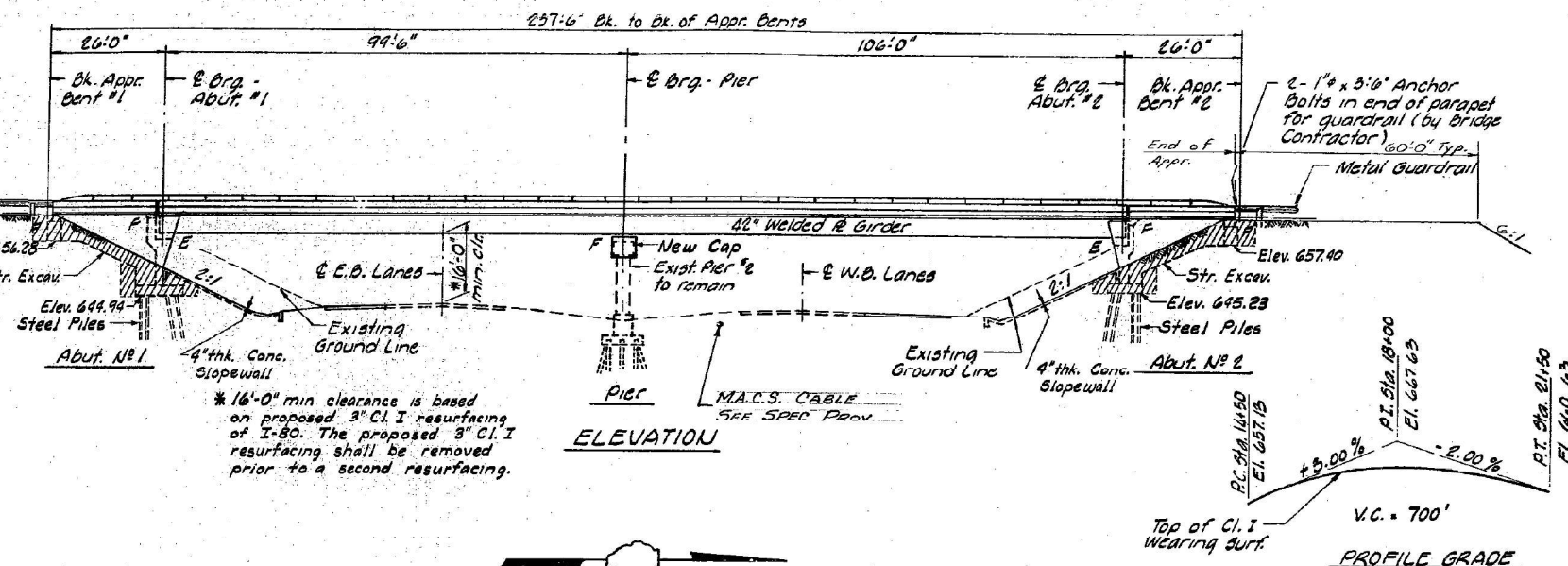
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA. 412	50-248 (R)	LaSalle	156	68
FED. ROAD DIST. NO.	LAJOUR	PROJECT		

Bench Mark:
D.M. #5A-3-60 Common nail in first RR east of County highway to Troy Grove on the north side of T. 90 Frontage road, 155' E. of Sta. 794+39 Elev. 641.64

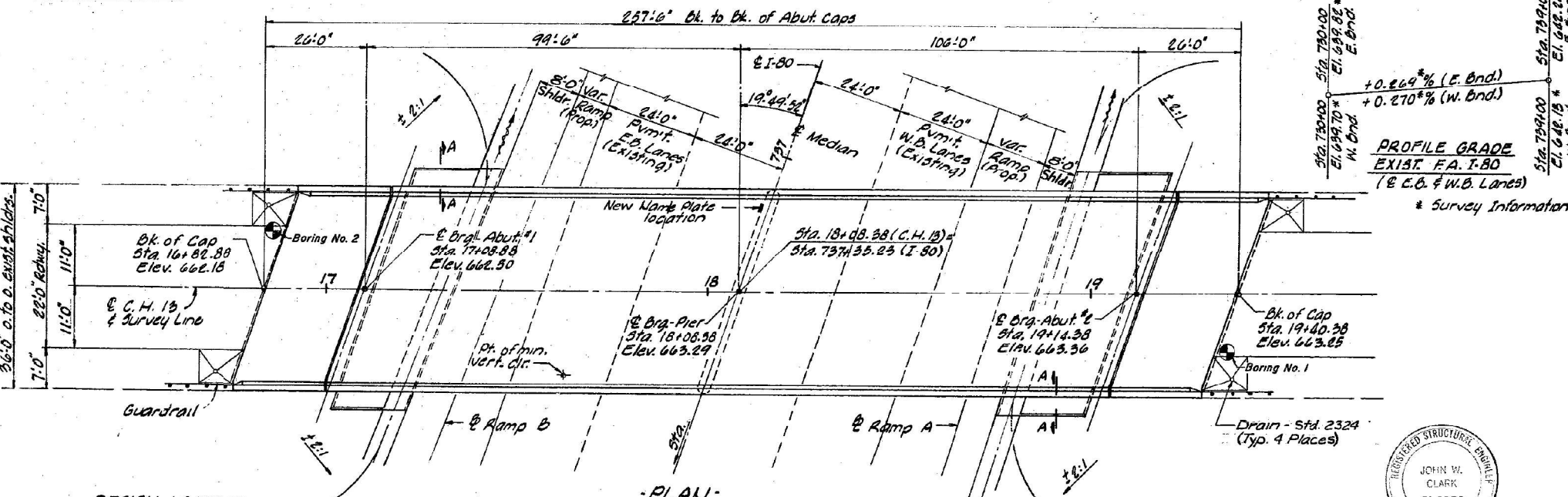
Existing structure to be removed except for center pier which is to remain. R.R. Conc. Beams shall be salvaged and become Elev. 654.28 property of the State.



BRIDGE LOCATION



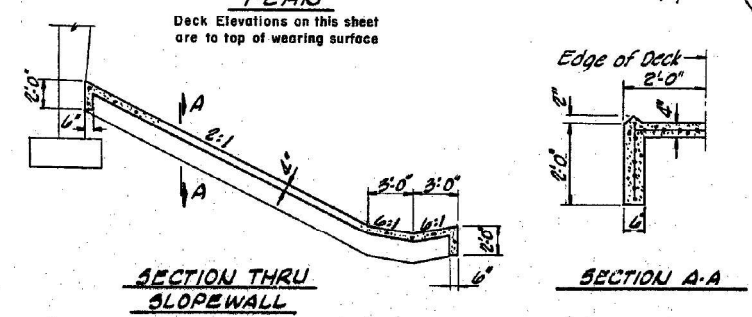
- GENERAL NOTES**
- It shall be the responsibility of the Contractor to verify all dimensions and conditions existing in the field prior to construction and ordering of materials.
 - All reinforcement bars shall be lapped 24 diameters unless otherwise shown.
 - Fasteners shall be high strength bolts. Bolts 3/4" Ø; open holes 13/16" Ø, unless otherwise noted.
 - Calculated weight of Structural Steel = 125,730 LBS. M183 113,410 LBS. M222
 - The basic lead silico chromate paint system shall be used for shop and field painting of Structural Steel.
 - Field welding of construction accessories will not be permitted to the bottom flange of girders nor to the top flange for a distance equal to one-fourth the span length each way from the pier supports. Field welding in other areas will be permitted only when approved by the Engineer.
 - Anchor bolts shall be set before bolting diaphragms over supports.
 - Slope wall shall be reinforced with welded wire fabric 6"x6" mesh, weighing 58 lbs. per 100 sq. ft.
 - The Contractor shall drive one (1) Steel HP 8x36 Test Pile in a permanent location at Abutment No. 2 as directed by the Engineer before ordering the remainder of piles.
 - The concrete rail section above the mandatory construction joint at the top of the slab shall be constructed of Class X Concrete, except the aggregate shall conform to the requirements of Handrail Concrete.
 - Protective Coat shall not be applied to surfaces to which Waterproofing Membrane System is applied.
 - Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of ±1/8 inch. Adjustment shall be made either by grinding the surface or by shimming the bearing. Two 1/8" adjusting shims, of the dimensions of the bottom bearing plate, shall be provided for each bearing in addition to all other plates or shims.
 - For Soil Boring Data see Special Provisions.
 - Existing Name Plate shall be salvaged, cleaned and relocated as shown on Sheet 12. Cost of work is incidental.



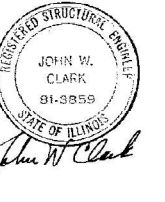
DESIGN LOADING
Live Load HS 20-44 AASHTO 1975 & 1974 Interim Specifications. Dead Load includes 25 lbs./sq. ft. of roadway for future wearing surface.

DESIGN STRESSES
f_c = 1400 p.s.i. Substructure, Curb & Parapet
f_c = 1600 p.s.i. Superstructure Slab
f_s = 20,000 p.s.i. Reinforcing Steel
f_s = 20,000 & 27,000 p.s.i. Structural Steel
n = 10

LIVE LOAD DEFLECTION
L/1800 for Composite Construction



STATION 18+08.88
BUILT 1978 BY
STATE OF ILLINOIS
FA. 412 SEC. 50-248-BR
FA. PROJECT 500-112-A(10)
LOADING HS 20



APPROVED
FOR STRUCTURAL ADEQUACY ONLY

LETTERING FOR NAME PLATE
(See Std. 2115)
(Curve to fit column)

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPERSTR.	SUBSTR.	TOTAL
Sand Backfill	Cu. Yds.		202	202
Removal of Existing Structure	Each			1
Concrete Removal	Cu. Yds.		16.7	16.7
Structure Excavation	Cu. Yds.		368	368
Class X Concrete	Cu. Yds.	313.3	191.8	505.1
Structural Steel	L.S.	1		1
Stud Shear Connectors	Each	1,740		1,740
Aluminum Railing	Lin. Ft.	509		509
Reinforcement Bars	Lbs.	76,700	22,210	97,910
Steel Piles HP8x36	Lin. Ft.		867	867
Test Piles HP8x36	Each		1	1
Name Plates	Each		1	1
Slope Wall 4"	Sq. Yds.		258	258
Preformed Joint Sealer 4"	Lin. Ft.	76.5		76.5
Bimodular Concrete Surface Course, Mixture D, Class I	Tons	75		75
Protective Coat	Sq. Yds.	191		191
Waterproofing Membrane System	Sq. Yds.	931		931

To be included in Sec. 50-5

GENERAL PLAN AND ELEVATION

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

C.H. 15 OVER F.A. 1-80
F.A. 412 SEC. 50-248-BR PROJ.
STA. 18+08.88 (C.H. 15) LASALLE CO.

HOMER L. CHASTAIN & ASSOCIATES
CONSULTING ENGINEERS
DECATUR, ILLINOIS

PROJECT NO. 2601-1
SHEET NO.

Rev. Reinf. Bars Sub from 22,110" to 22,210", Total from 97,810" to 97,910" 3-17-76 A.M.

MODEL: Default
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USER NAME	DESIGNED - P. SARICH	REVISED -
	CHECKED - I. LOPEZ	REVISED -
PLOT SCALE	DRAWN - P. SARICH	REVISED -
PLOT DATE	CHECKED - P. SARICH	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

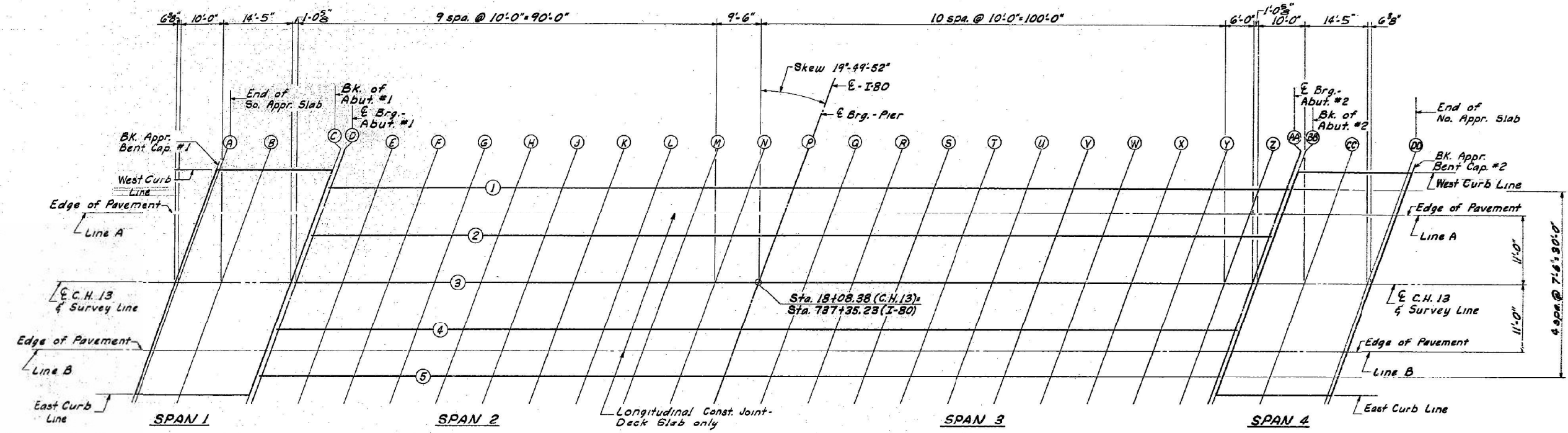
1976 EXISTING BRIDGE PLANS
STRUCTURE NO. 050-0093

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
260	((50-2) BR-10, BR-13) BJR, BDR	LASALLE	64	32
CONTRACT NO. 66M69				
ILLINOIS		FED. AID PROJECT		

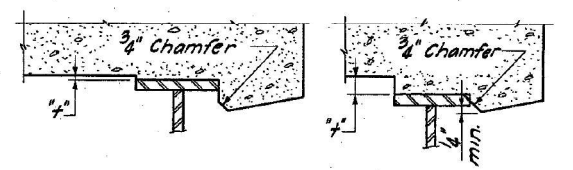
FOR INFORMATION ONLY

Sheet No. 2
of 12 Sheets

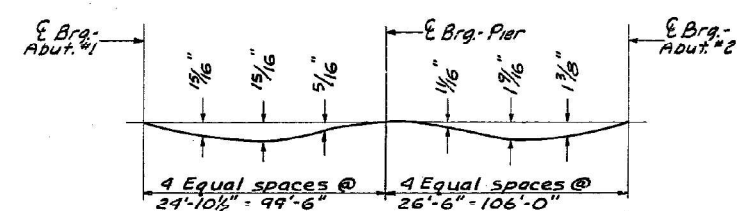
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAA12	50-2HB-3(R)	LaSalle	156	68A
FED. ROAD DIST. NO.	ILLINOIS PROJECT			



-PLAN-
See Structural Framing Plan (sh.#7) for transverse Spacing of Girders



FILLET HEIGHTS
To determine "h" After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at the intervals shown above. These elevations subtracted from the "Elevation Adjusted for Dead Load Deflection" shown on sheet #3 minus slab thickness, equals the fillet heights "h" above top flange of girders.



DEAD LOAD DEFLECTION DIAGRAM
(Includes weight of concrete only)
NOTE: The above deflections are not to be used in the field if the Engineer is working from the grade elevations adjusted for dead load deflections as shown on sheet #3

REVISIONS		DATE
NO.	DATE	DETAILS
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

DRAWN BY: T.J.E. P-75	
CHECKED BY: J.W.C. 578	
PROJECT NO. 2601-1	
SHEET NO.	

TOP OF SLAB ELEVATIONS

C.H. 13 OVER FA-1-80
FAA 412 SEC. 50-2 HB-3(R) PROJ.
Sta. 18+08.38 (C.H. 13) LASALLE CO.

HOMER L. CHASTAIN & ASSOCIATES
CONSULTING ENGINEERS
DECATUR, ILLINOIS

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PLOT SCALE =	CHECKED - I. LOPEZ	REVISED -
PLOT DATE =	DRAWN - P. SARICH	REVISED -
	CHECKED - P. SARICH	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

1976 EXISTING BRIDGE PLANS
STRUCTURE NO. 050-0093

SHEET 18 OF 28 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
260	[(50-2) BR-10, BR-13] BJR, BDR	LASALLE	64	33
CONTRACT NO. 66M69				
ILLINOIS		FED. AID PROJECT		

FOR INFORMATION ONLY

Sheet No. 3
of 12 Sheets

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAAR 50-2HB-3(R)		LaSalle	156	628
FED. ROAD DIST. NO.	ILLINOIS	PROJECT		

SPAN 1 & 2

LINE	BEAM OR GIRDER	STATION	OFFSET	THEORETICAL GRADE ELEVATION	ELEVATION ADJUSTED FOR DEAD LOAD DEFLECTION
A					
<i>(End of Appr. Slab)</i>					
W CURB		1689.270	16.250	661.857	661.857
LINE A		1687.377	11.000	661.942	661.942
CL		1682.410	0.000	662.062	662.062
LINE B		1679.443	-11.000	661.836	661.836
E CURB		1677.590	-16.250	661.701	661.701
B					
W CURB		1699.270	16.250	661.983	661.983
LINE A		1697.377	11.000	662.069	662.069
CL		1692.410	0.000	662.191	662.191
LINE B		1689.443	-11.000	661.969	661.969
E CURB		1687.590	-16.250	661.835	661.835
C					
<i>(Bk Abut *)</i>					
W CURB		1713.687	16.250	662.191	662.191
LINE A		1711.794	11.000	662.276	662.276
CL		1707.827	0.000	662.366	662.366
LINE B		1704.860	-11.000	662.147	662.147
E CURB		1701.966	-16.250	662.015	662.015
D					
<i>(E Brg. Abut. I)</i>					
G-1		1714.290	15.000	662.184	662.184
LINE A		1712.847	11.000	662.251	662.251
G-2		1711.585	7.500	662.291	662.291
G-3		1708.880	0.000	662.378	662.378
G-4		1706.175	-7.500	662.229	662.229
LINE B		1704.913	-11.000	662.160	662.160
G-5		1703.470	-15.000	662.089	662.089
E					
G-1		1724.290	15.000	662.292	662.292
LINE A		1722.847	11.000	662.360	662.360
G-2		1721.585	7.500	662.401	662.439
G-3		1718.880	0.000	662.489	662.527
G-4		1716.175	-7.500	662.343	662.391
LINE B		1714.913	-11.000	662.274	662.312
G-5		1713.470	-15.000	662.175	662.213
F					
G-1		1734.290	15.000	662.392	662.460
LINE A		1732.847	11.000	662.461	662.530
G-2		1731.585	7.500	662.503	662.572
G-3		1728.880	0.000	662.594	662.662
G-4		1726.175	-7.500	662.449	662.517
LINE B		1724.913	-11.000	662.381	662.450
G-5		1723.470	-15.000	662.283	662.351
G					
G-1		1744.290	15.000	662.485	662.572
LINE A		1742.847	11.000	662.556	662.642
G-2		1741.585	7.500	662.599	662.685
G-3		1738.880	0.000	662.691	662.777
G-4		1736.175	-7.500	662.548	662.634
LINE B		1734.913	-11.000	662.481	662.568
G-5		1733.470	-15.000	662.384	662.470
H					
G-1		1754.290	15.000	662.572	662.661
LINE A		1752.847	11.000	662.643	662.733
G-2		1751.585	7.500	662.687	662.777
G-3		1748.880	0.000	662.781	662.871
G-4		1746.175	-7.500	662.640	662.730
LINE B		1744.913	-11.000	662.574	662.664
G-5		1743.470	-15.000	662.478	662.568
J					
G-1		1764.290	15.000	662.651	662.730
LINE A		1762.847	11.000	662.723	662.803
G-2		1761.585	7.500	662.768	662.848
G-3		1758.880	0.000	662.866	662.944
G-4		1756.175	-7.500	662.725	662.803
LINE B		1754.913	-11.000	662.660	662.740
G-5		1753.470	-15.000	662.565	662.644
K					
G-1		1774.290	15.000	662.723	662.782
LINE A		1772.847	11.000	662.796	662.855
G-2		1771.585	7.500	662.842	662.901
G-3		1768.880	0.000	662.940	663.029
G-4		1766.175	-7.500	662.803	662.862
LINE B		1764.913	-11.000	662.739	662.798
G-5		1763.470	-15.000	662.644	662.704

SPAN 2 & 3

LINE	BEAM OR GIRDER	STATION	OFFSET	THEORETICAL GRADE ELEVATION	ELEVATION ADJUSTED FOR DEAD LOAD DEFLECTION
L					
G-1		1784.290	15.000	662.787	662.823
LINE A		1782.847	11.000	662.852	662.898
G-2		1781.585	7.500	662.909	662.944
G-3		1778.880	0.000	663.008	663.044
G-4		1776.175	-7.500	662.873	662.909
LINE B		1774.913	-11.000	662.810	662.846
G-5		1773.470	-15.000	662.717	662.753
M					
G-1		1794.290	15.000	662.845	662.881
LINE A		1792.847	11.000	662.920	662.936
G-2		1791.585	7.500	662.968	662.984
G-3		1788.880	0.000	663.070	663.086
G-4		1786.175	-7.500	662.937	662.953
LINE B		1784.913	-11.000	662.874	662.890
G-5		1783.470	-15.000	662.782	662.798
N					
G-1		1804.290	15.000	662.896	662.898
LINE A		1802.847	11.000	662.972	662.974
G-2		1801.585	7.500	663.021	663.023
G-3		1798.880	0.000	663.124	663.127
G-4		1796.175	-7.500	662.993	662.995
LINE B		1794.913	-11.000	662.932	662.934
G-5		1793.470	-15.000	662.841	662.843
P					
<i>(E Pier)</i>					
G-1		1813.290	15.000	662.937	662.937
LINE A		1812.347	11.000	663.014	663.014
G-2		1811.085	7.500	663.064	663.064
G-3		1808.380	0.000	663.169	663.169
G-4		1805.675	-7.500	663.040	663.040
LINE B		1804.413	-11.000	662.979	662.979
G-5		1802.970	-15.000	662.889	662.889
Q					
G-1		1823.290	15.000	662.974	662.987
LINE A		1822.347	11.000	663.052	663.055
G-2		1821.085	7.500	663.102	663.115
G-3		1818.380	0.000	663.210	663.223
G-4		1815.675	-7.500	663.082	663.095
LINE B		1814.413	-11.000	663.023	663.036
G-5		1812.970	-15.000	662.934	662.947
R					
G-1		1833.290	15.000	663.003	663.040
LINE A		1832.347	11.000	663.082	663.119
G-2		1831.085	7.500	663.134	663.171
G-3		1828.380	0.000	663.243	663.280
G-4		1825.675	-7.500	663.118	663.155
LINE B		1824.413	-11.000	663.059	663.096
G-5		1822.970	-15.000	662.971	663.008
S					
G-1		1843.290	15.000	663.025	663.092
LINE A		1842.347	11.000	663.106	663.172
G-2		1841.085	7.500	663.158	663.225
G-3		1838.380	0.000	663.269	663.336
G-4		1835.675	-7.500	663.146	663.212
LINE B		1834.413	-11.000	663.088	663.154
G-5		1832.970	-15.000	663.001	663.068
T					
G-1		1853.290	15.000	663.040	663.130
LINE A		1852.347	11.000	663.122	663.219
G-2		1851.085	7.500	663.175	663.272
G-3		1848.380	0.000	663.288	663.386
G-4		1845.675	-7.500	663.167	663.264
LINE B		1844.413	-11.000	663.110	663.207
G-5		1842.970	-15.000	663.024	663.121
U					
G-1		1863.290	15.000	663.048	663.171
LINE A		1862.347	11.000	663.131	663.253
G-2		1861.085	7.500	663.185	663.307
G-3		1858.380	0.000	663.300	663.423
G-4		1855.675	-7.500	663.180	663.303
LINE B		1854.413	-11.000	663.124	663.247
G-5		1852.970	-15.000	663.039	663.162
V					
G-1		1873.290	15.000	663.049	663.185
LINE A		1872.347	11.000	663.133	663.268
G-2		1871.085	7.500	663.188	663.323
G-3		1868.380	0.000	663.303	663.440
G-4		1865.675	-7.500	663.187	663.322
LINE B		1864.413	-11.000	663.132	663.267
G-5		1862.970	-15.000	663.048	663.183

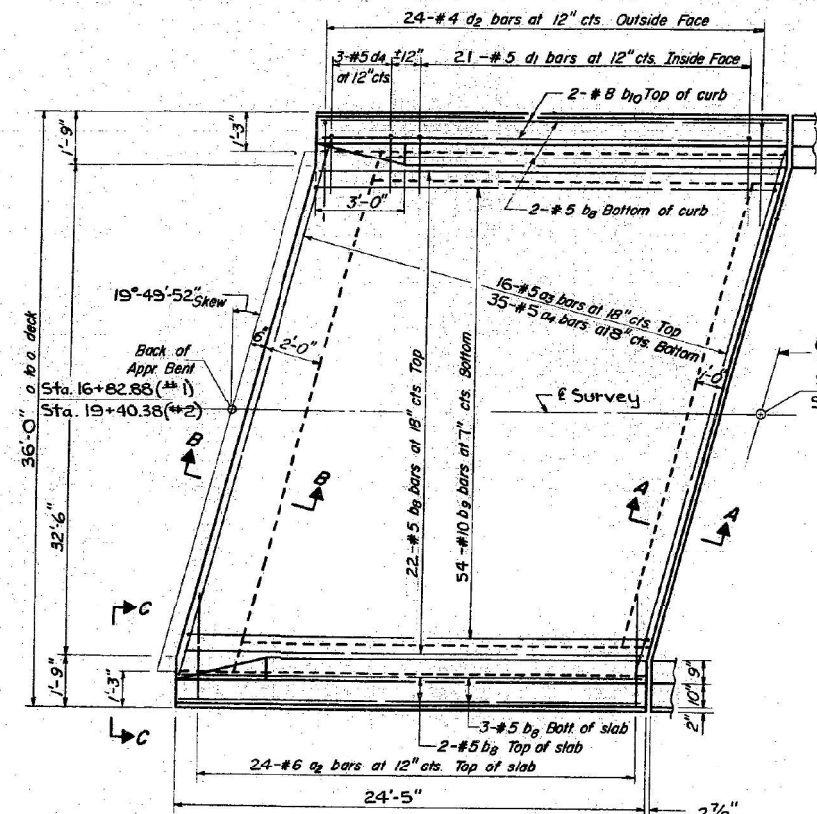
SPAN 3 & 4

LINE	BEAM OR GIRDER	STATION	OFFSET	THEORETICAL GRADE ELEVATION	ELEVATION ADJUSTED FOR DEAD LOAD DEFLECTION
W					
G-1		1883.290	15.000	663.043	663.176
LINE A		1882.347	11.000	663.128	663.260
G-2		1881.085	7.500	663.183	663.316
G-3		1878.380	0.000	663.302	663.435
G-4		1875.675	-7.500	663.187	663.319
LINE B		1874.413	-11.000	663.126	663.265
G-5		1872.970	-15.000	663.049	663.182
X					
G-1		1893.290	15.000	663.090	663.163
LINE A		1892.347	11.000	663.173	663.228
G-2		1891.085	7.500	663.228	663.285
G-3		1888.380	0.000	663.349	663.406
G-4		1885.675	-7.500	663.234	663.292
LINE B		1884.413	-11.000	663.173	663.239
G-5		1882.970	-15.000	663.094	663.157
Y					
G-1		1903.290	15.000	663.009	663.087
LINE A		1902.347	11.000	663.096	663.176
G-2		1901.085	7.500	663.153	663.231
G-3		1898.380	0.000	663.276	663.354
G-4		1895.675	-7.500	663.164	663.242
LINE B		1894.413	-11.000	663.112	663.190
G-5		1892.970	-15.000	663.031	663.109
Z					
G					

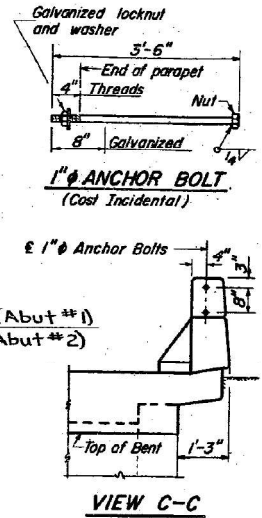
FOR INFORMATION ONLY

Sheet No 4
of 12 Sheets

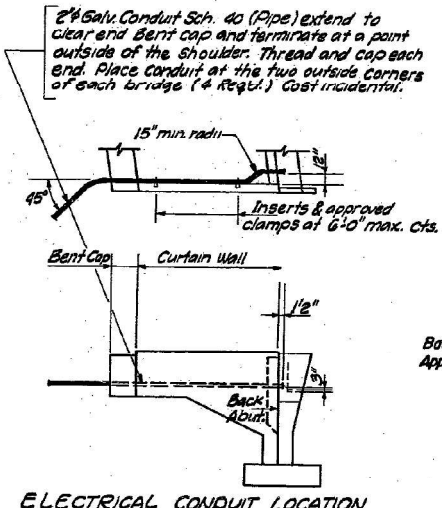
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA-412	50-2HB-3(R)	LaSalle	156	69
FED. ROAD DIST. NO.	ILLINOIS PROJECT			



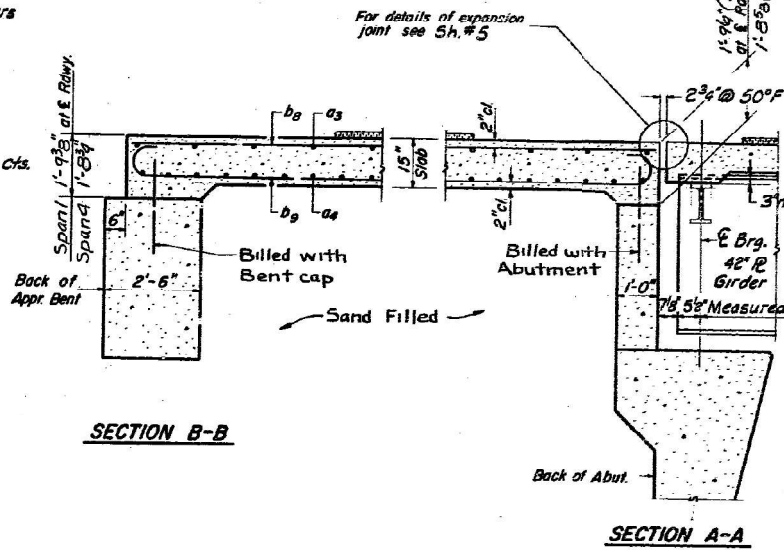
PLAN



VIEW C-C

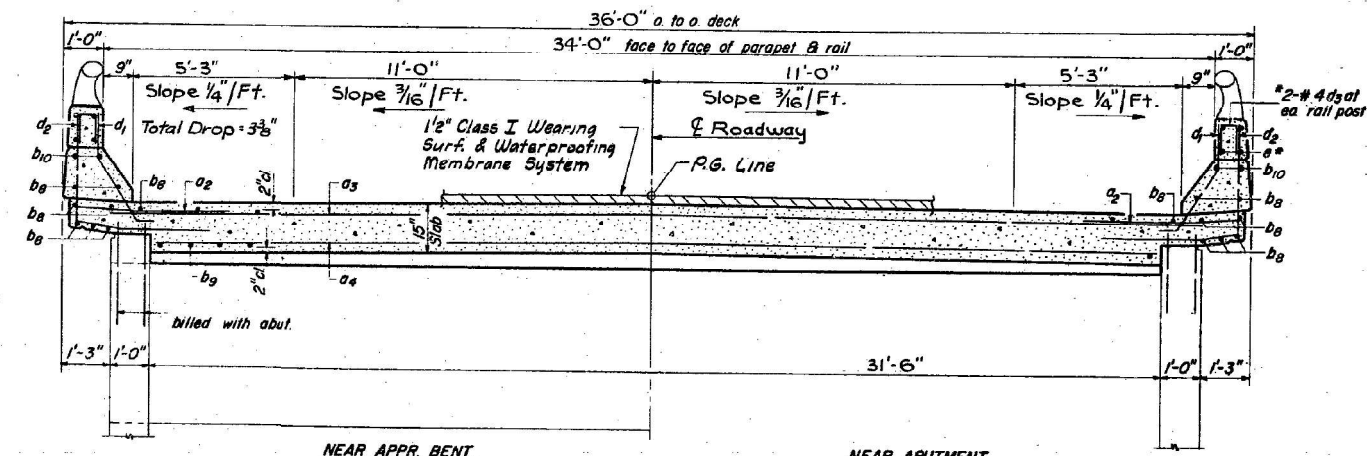


ELECTRICAL CONDUIT LOCATION

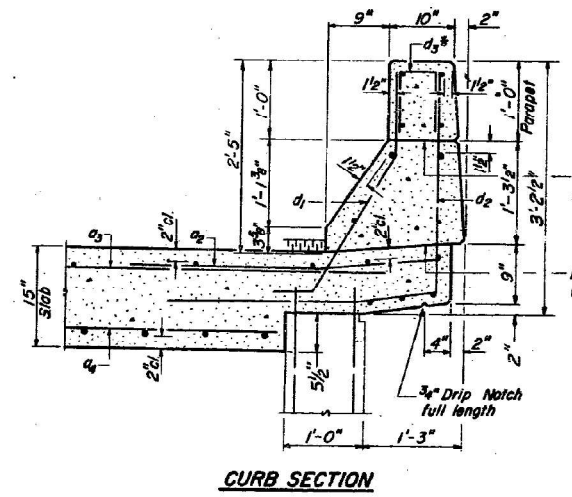


SECTION B-B

SECTION A-A



CROSS SECTION



CURB SECTION

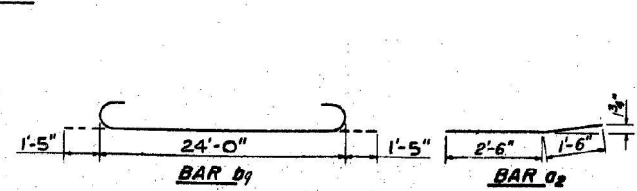
TWO APPK. SLABS
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a2	96	#6	4'-0"	
a3	32	#5	36'-0"	
a4	70	#5	33'-0"	
b8	12	#5	24'-0"	
b9	108	#10	26'-10"	C
b10	8	#8	24'-0"	
d1	84	#5	3'-7"	J
d2	96	#4	6'-0"	J
d4	12	#5	4'-2"	J
Reinforcement Bars		Lbs.	19,720	
Class X Concrete		Cu Yds.	87.8	

LOAD FACTOR DESIGN
f_c = 3500 psi
f_y = 40000 psi

*Parapet Reinforcement and Class X Concrete are billed on sheet #6

SAS-L (S30) 8-1-73



SUPERSTRUCTURE - SPANS 1 & 4

REVISIONS	DATE	DETAILS
1		
2		
3		
4		
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DESIGNED BY: SALES
2.11.4-75
CHECKED BY: J.W.C. 5-75
BOOK NUMBER: 2601-1
SHEET NO.

C.H. 13 OVER F.A. I-80
F.A.P. 412 SEC. 50-2 HB-3(R) PROJ.
STA. 18+08.38 (CH. 13) LASALLE CO.

HOMER L. CHASTAIN & ASSOCIATES
CONSULTING ENGINEERS
DECATUR, ILLINOIS

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USER NAME	DESIGNED - P. SARICH	REVISED -
PLOT SCALE	CHECKED - I. LOPEZ	REVISED -
PLOT DATE	DRAWN - P. SARICH	REVISED -
	CHECKED - P. SARICH	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

1976 EXISTING BRIDGE PLANS
STRUCTURE NO. 050-093

SHEET 20 OF 28 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
260	((50-2) BR-10, BR-13) BJR, BDR	LASALLE	64	35
CONTRACT NO. 66M69				

ILLINOIS FED. AID PROJECT

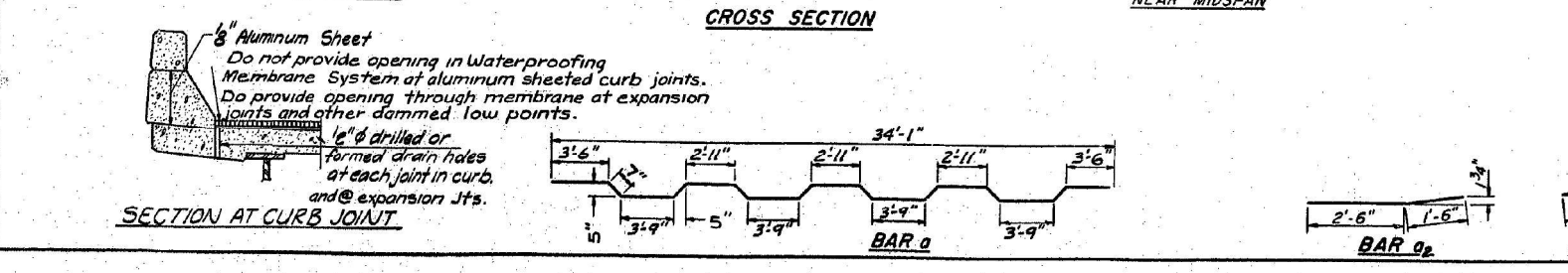
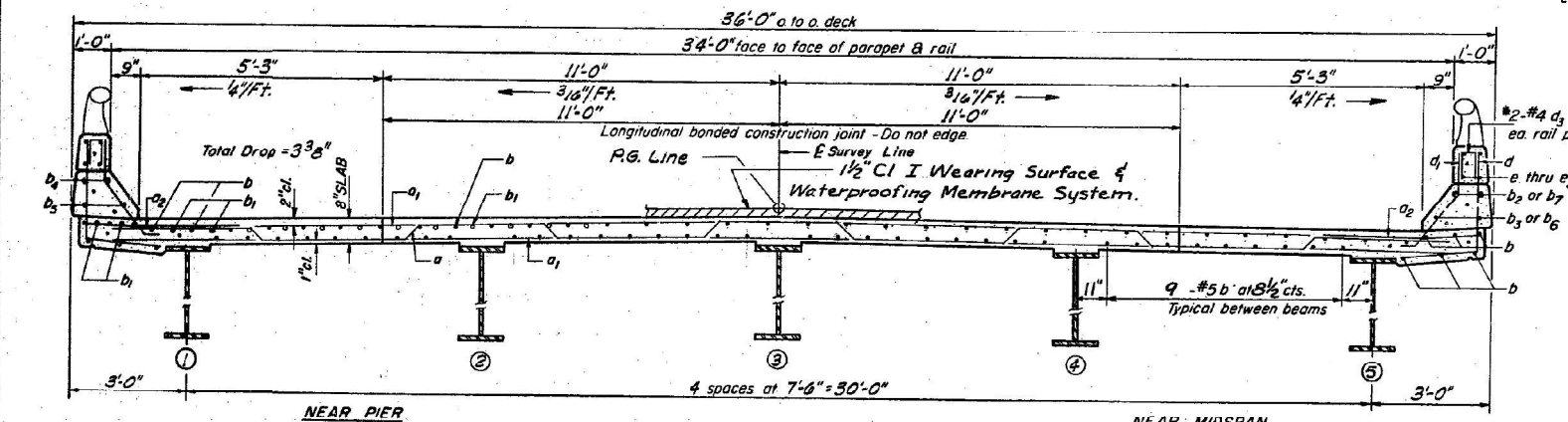
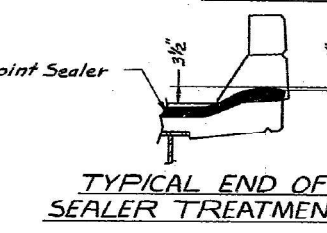
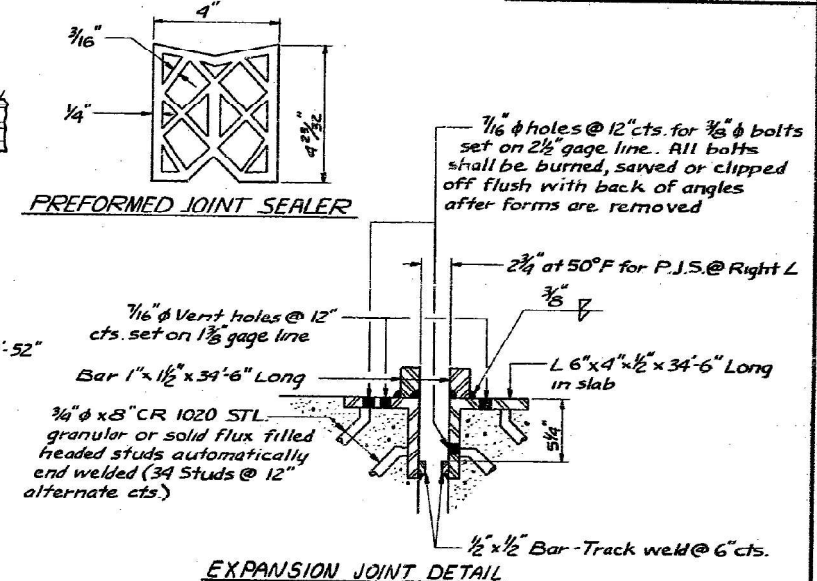
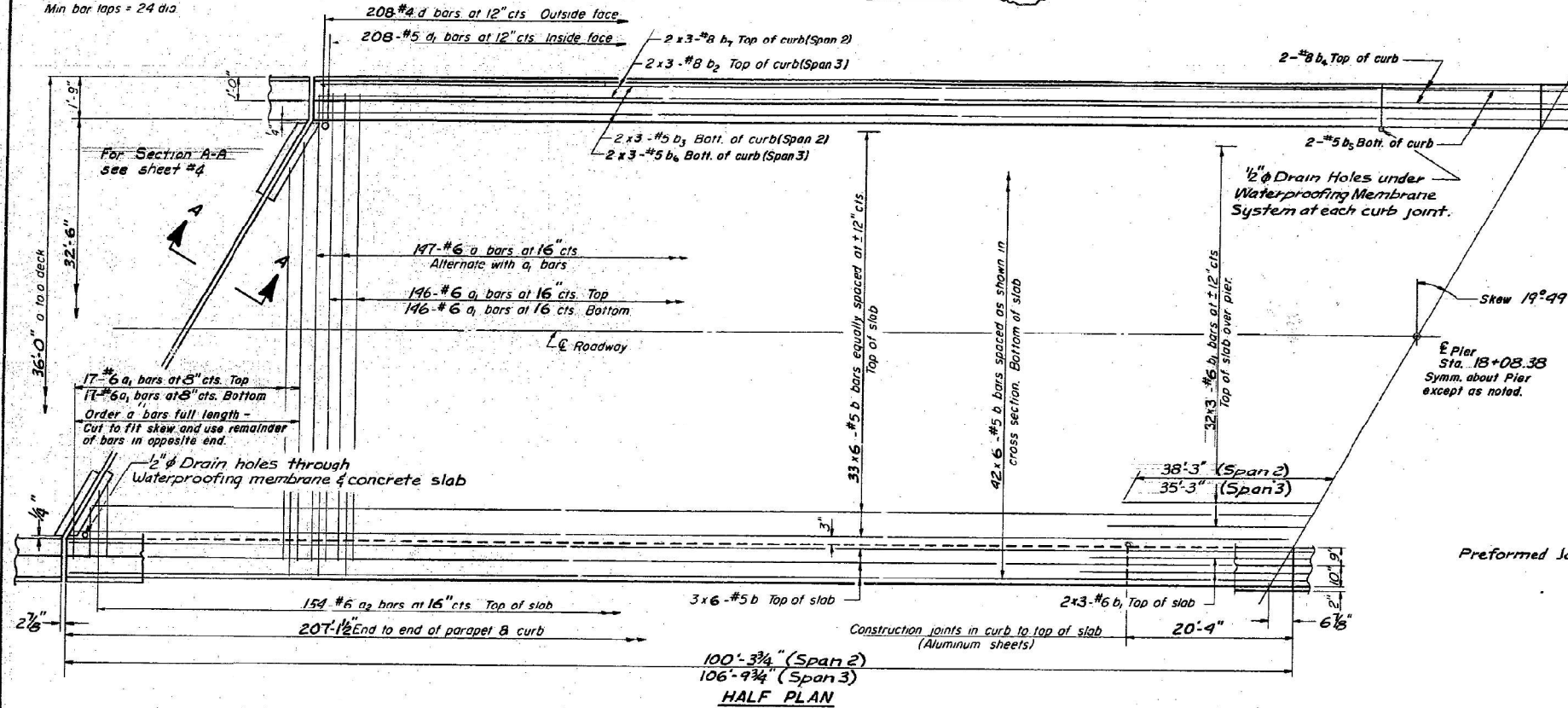
FOR INFORMATION ONLY

Sheet No 5
of 12 Sheets

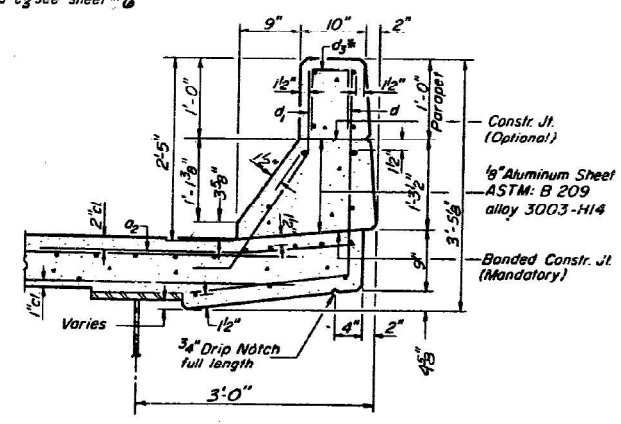
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA 412	50-412B (R)	LaSalle	156	69A
FED. ROAD DIST. NO.	ILLINOIS	PROJECT		

NOTE:

Bars indicated thus 20 x 3-#5 etc indicates 20 lines of bars with 3 lengths per line.
Min bar laps = 24 dia



NOTE: For placement of bars d₂ and e thru e₃ see sheet #6



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	147	#6	35'-5"	~
a ₁	326	#6	34'-0"	~
a ₂	308	#6	4'-0"	~
b	486	#5	35'-6"	~
b ₁	108	#6	25'-8"	~
b ₂	12	#8	30'-3"	~
b ₃	12	#5	27'-6"	~
b ₄	8	#8	20'-0"	~
b ₅	8	#5	20'-0"	~
b ₆	12	#5	29'-6"	~
b ₇	12	#8	28'-0"	~
d	416	#4	4'-8"	J
d ₁	416	#5	3'-7"	J
Reinforcement Bars				Lbs. 54,500
Class X Concrete				Cu Yds. 204.1

SUPERSTRUCTURE - SPANS 2 & 3

NO.	DATE	REVISIONS
1		
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DESIGNED BY: R.H. 3-75
CHECKED BY: R.A.B. 5-75
PROJECT NO. 260-1

C.H. 13 OVER F.A. I-80
F.A.P. 412 SEC. 50-2HE-3(R) PROJ.
STR. 18+08.38 (C.H. 13) LASALLE CO.

HOMER L. CHASTAIN & ASSOCIATES
CONSULTING ENGINEERS
DECATUR, ILLINOIS

MODEL: Default
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USER NAME	DESIGNED	REVISIONS
	P. SARICH	
	I. LOPEZ	
	P. SARICH	
	P. SARICH	

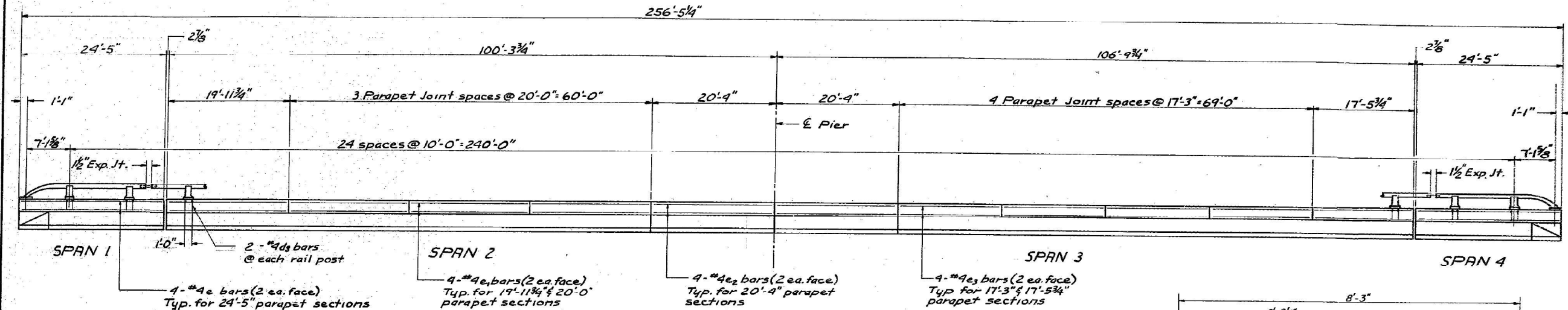
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

1976 EXISTING BRIDGE PLANS
STRUCTURE NO. 050-093
SHEET 21 OF 28 SHEETS

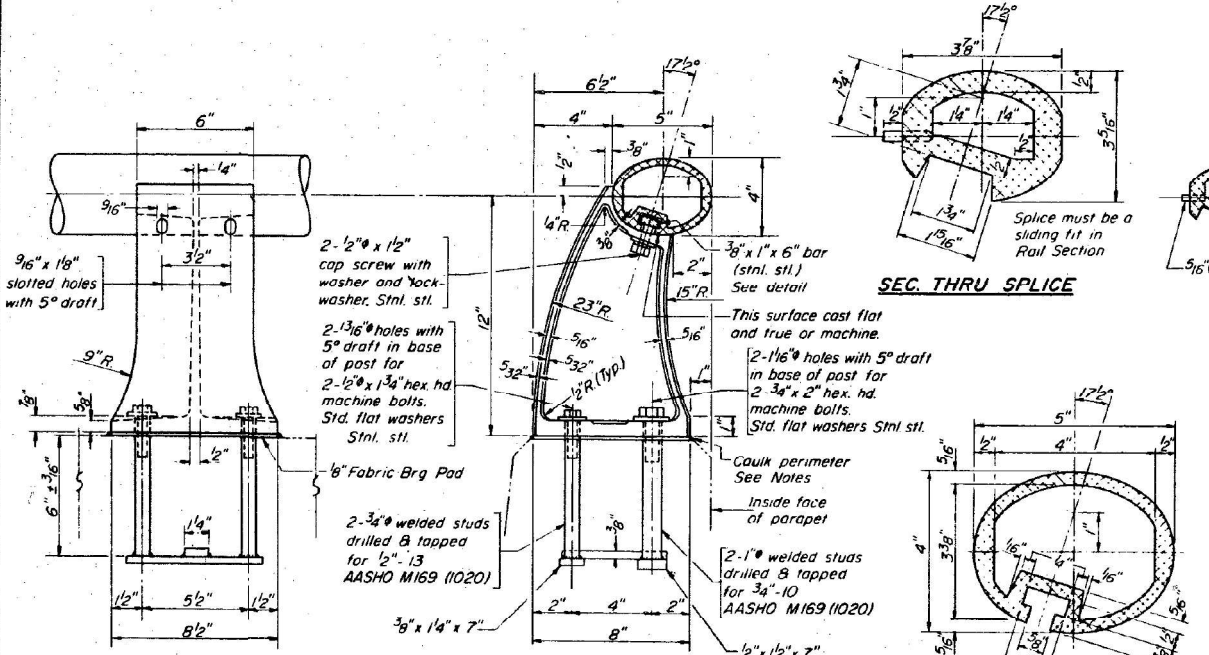
F.A.S. RITE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
260	((50-2) BR-10, BR-13) BJR, BDR	LASALLE	64	36
				CONTRACT NO. 66M69
		ILLINOIS	FED. AID PROJECT	

FOR INFORMATION ONLY

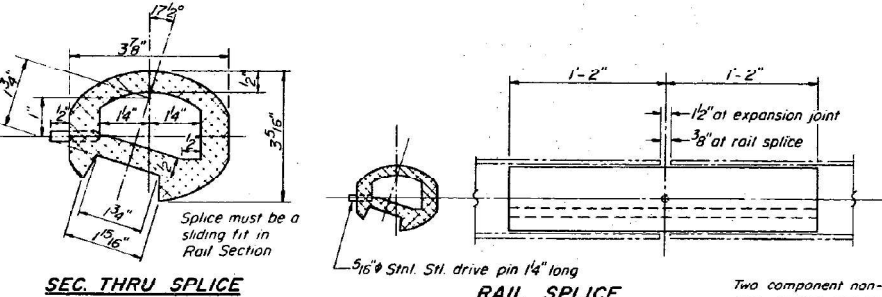
PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
412	50-2113 (R)	LaSalle	156	69B
SHEET NO. 6				
12 SHEETS				



ELEVATION

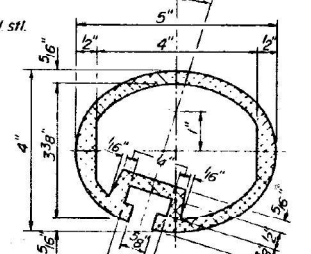


RAIL POST DETAILS

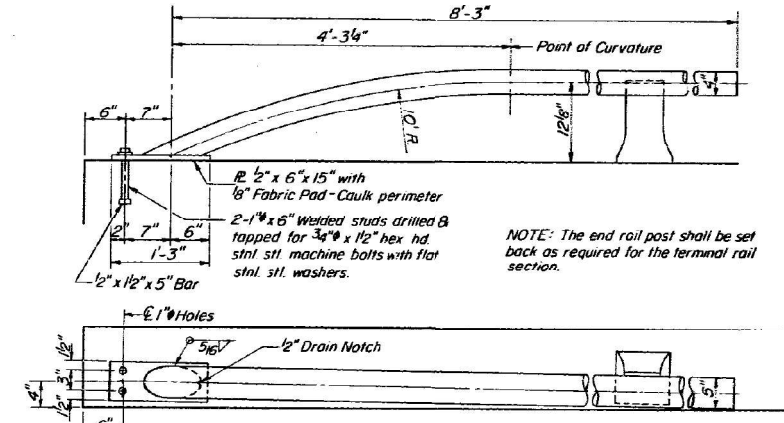


SEC. THRU SPlice

RAIL SPLICE

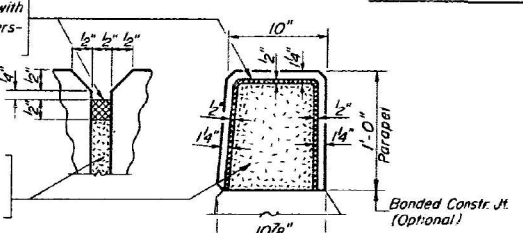


SEC. THRU ELLIPTICAL RAIL SECTION



RAIL TERMINAL SECTION

PARAPET JOINT DETAIL



PARAPETS & RAILS BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d ₃	100	#4	2'-1"	□
e	16	#4	24'-0"	—
e ₁	32	#4	19'-8"	—
e ₂	16	#4	20'-0"	—
e ₃	40	#4	17'-0"	—
Reinforcement Bars		Lbs.	1880	
Class X Concrete		Cu Yds	16.4	
Aluminum Railing		Lin Ft.	509	

NOTES:
 Stainless steel machine bolts or cap screws shall be in accordance with Article 710.37(a) of the standard specifications except Grade B8 or B8M maybe furnished.
 All Aluminum Alloy Extruded Rail shall be supplied in modular lengths of 30 feet, except at the end of bridge or over open joints in bridge deck where the rail shall be attached to a minimum of 2 posts. If the rail is on a horizontal curve of 2300 foot radius or less, the modular lengths may be reduced but shall be attached to a minimum of 2 posts.
 All joints in rail shall be spliced per detail.
 Provide 1'-8" and 2'-16" Aluminum Shims for 25% of the Posts. Rail element shall be parallel to Grade - high spots shall be ground and low spots shimmed.
 Seal perimeter of base of post to parapet with two component non-staining gray sealing compound with polysulfide liquid polymers, gun grade with primer. Fabric Bearing Pad shall have same dimensions as base of post.
 Aluminum alloy rail shall conform to ASTM B221 alloy 6061-T6 or 6351-T5 with min. yield 35 ksi, min tensile 38 ksi, and elongation of 10% in 2 inches.

ALUMINUM RAILING

NO.	DATE	REVISIONS
1		
2		
3		
4		
5		
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7		
8		
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10		

DESIGNED BY DATE
R.J.H. 4-75
 CHECKED BY DATE
R.R.R. 5-25
 PROJECT NO.
2601-1
 SHEET NO.

C.H. 13 OVER F.R. I-80
 F.R.P. 412 SEC. 50-2 HB-3(R) PROJ
 STR. 13-03-39(C.H.13) LASALLE CO.
 HOMER L. CHASTAIN & ASSOCIATES
 CONSULTING ENGINEERS
 DECATUR, ILLINOIS

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

1976 EXISTING BRIDGE PLANS
 STRUCTURE NO. 050-0093

F.A.S. RITE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
260	[(50-2) BR-10, BR-13] BJR, BDR	LASALLE	64	37
CONTRACT NO. 66M69				
ILLINOIS FED. AID PROJECT				

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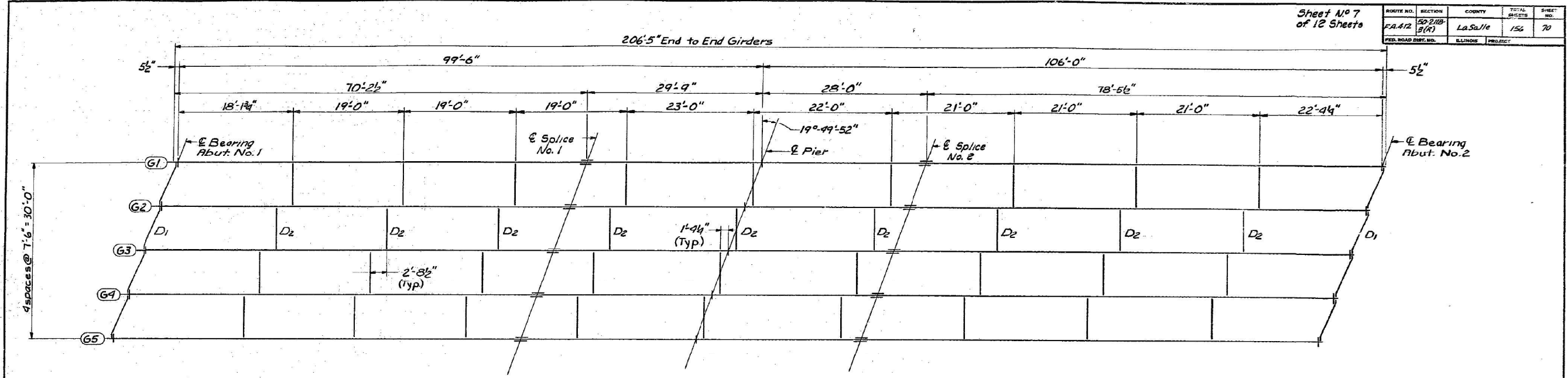
CDM Smith
 listen. think. deliver.

USER NAME	DESIGNED	REVISIONS
	P. SARICH	
	I. LOPEZ	
PLOT SCALE	DRAWN	REVISIONS
	P. SARICH	
PLOT DATE	CHECKED	REVISIONS
	P. SARICH	

FOR INFORMATION ONLY

Sheet No. 7
of 12 Sheets

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA 412	50-211B-3(R)	La Salle	156	70
FED. ROAD DIST. NO.		ILLINOIS PROJECT		



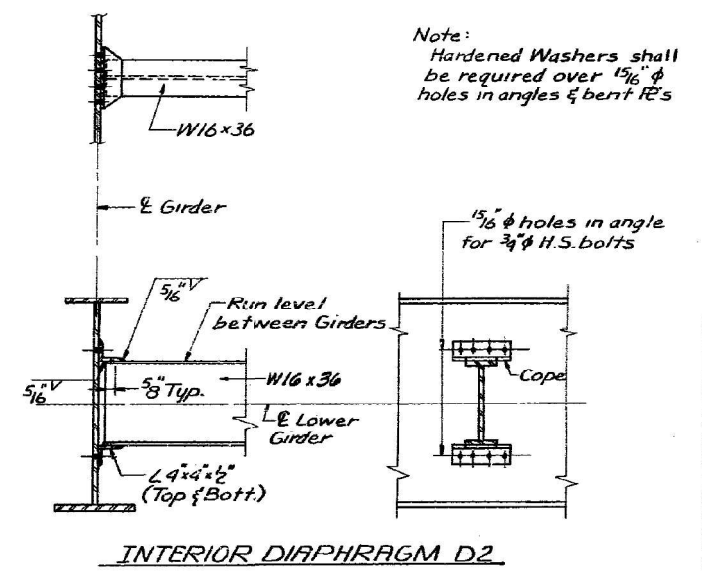
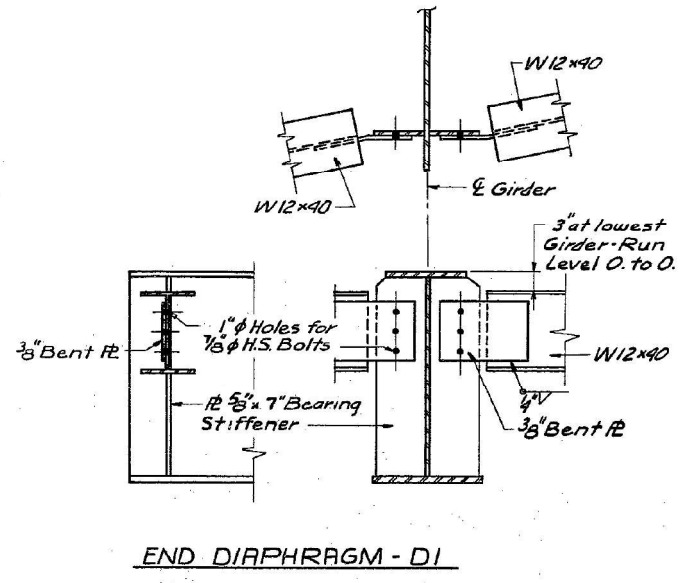
SPAN 2

FRAMING PLAN
All end diaphragms to be W12x40 (D1)
All interior diaphragms to be W16x36 (D2)

SPAN 3

Girder Location	1	2	3	4	5
Brig. Abut. 1	661.41	661.52	661.61	661.46	661.29
Splice 1	661.91	662.03	662.13	661.99	661.89
Pier	662.04	662.17	662.27	662.14	661.99
Splice 2	662.17	662.30	662.41	662.29	662.19
Brig. Abut. 2	662.19	662.34	662.46	662.36	662.22

* For Fabrication only



Note:
Hardened Washers shall be required over 1 1/2" holes in angles & bent P's

REVISIONS			DRAWN BY DATE	
NO.	DATE	DETAILS	NAME	DATE
1			RJH	4-75
2				
3				
4				
5				
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STRUCTURAL STEEL C.H. 13 OVER FA 1-80 FA 412 SEC. 50-211B-3(R) PROJ. STA. 13+05.33 (C.H. 13) LASALLE CO.		PROJECT NO. 2601-1
HOMER L. CHASTAIN & ASSOCIATES CONSULTING ENGINEERS DECATUR, ILLINOIS		SHEET NO.

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USER NAME =	DESIGNED - P. SARICH	REVISED -
PLOT SCALE =	CHECKED - I. LOPEZ	REVISED -
PLOT DATE =	DRAWN - P. SARICH	REVISED -
	CHECKED - P. SARICH	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

1976 EXISTING BRIDGE PLANS
STRUCTURE NO. 050-0093

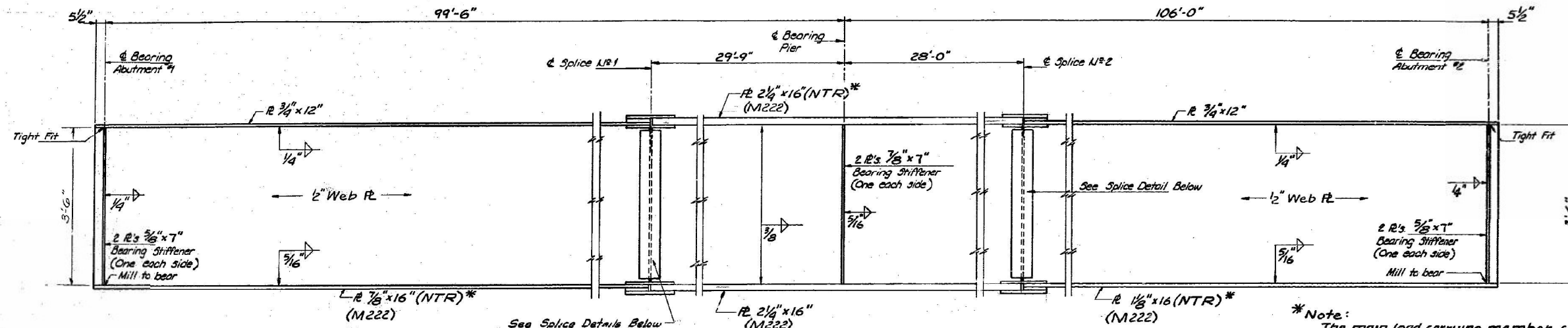
SHEET 23 OF 28 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
260	[(50-2) BR-10, BR-13] BJR, BDR	LASALLE	64	38
CONTRACT NO. 66M69				
ILLINOIS		FED. AID PROJECT		

FOR INFORMATION ONLY

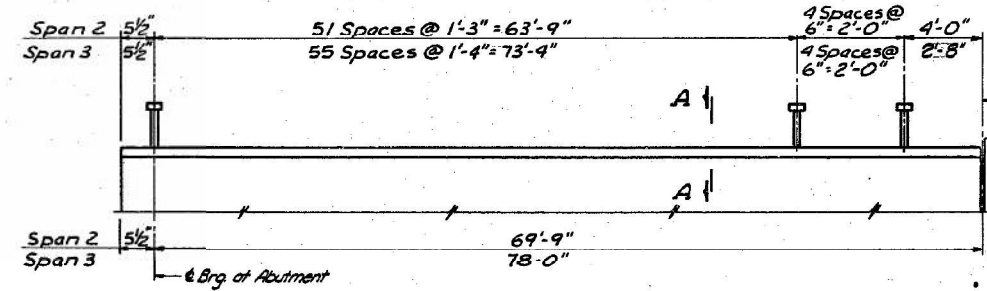
Sheet N^o 8
of 18 Sheets

ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOTAL SHEETS
F.A. 12	50-248-3(R)	LaSalle	156	70A
FED. ROAD DIST. NO.	BRIDGE NO.	PROJECT		

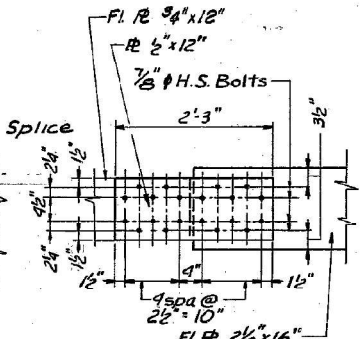


GIRDER ELEVATION
All structural steel shall be AASHTO M183 unless otherwise noted.

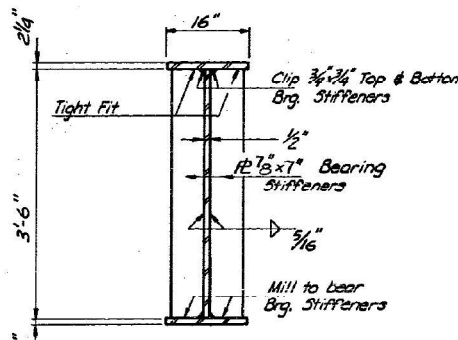
***Note:**
The main load carrying member components subject to the Supplemental Requirements for Notch Toughness are the flanges, as designated NTR on Elev. View along with the webs and all splice plates of the steel girders



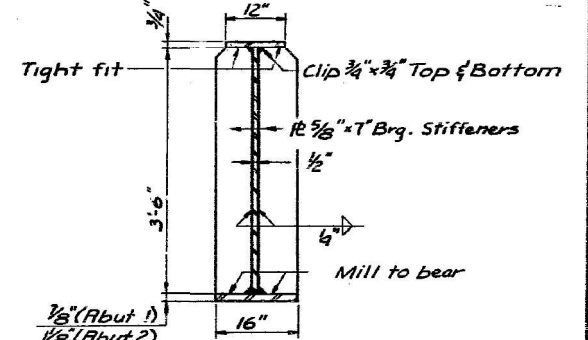
SHEAR CONNECTOR ELEVATION
(34B stud shear connectors req'd. ea girder)



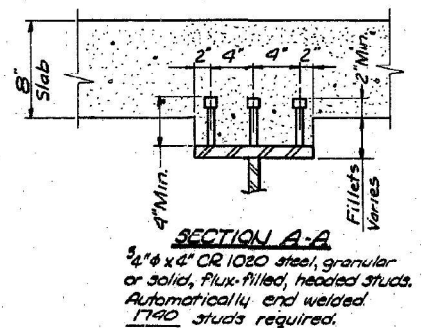
TOP FLANGE SPLICE PLATE SPLICE #1 & SPLICE #2



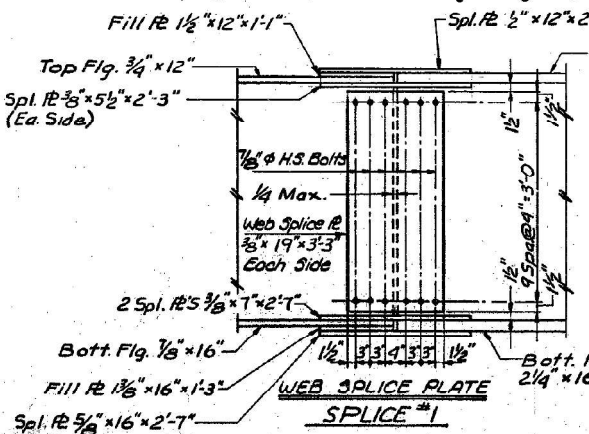
SECTION AT PIER



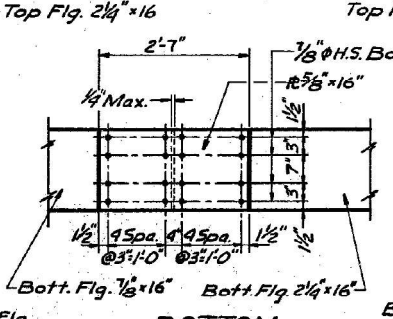
TYPICAL GIRDER SECTION AT ABUTMENT



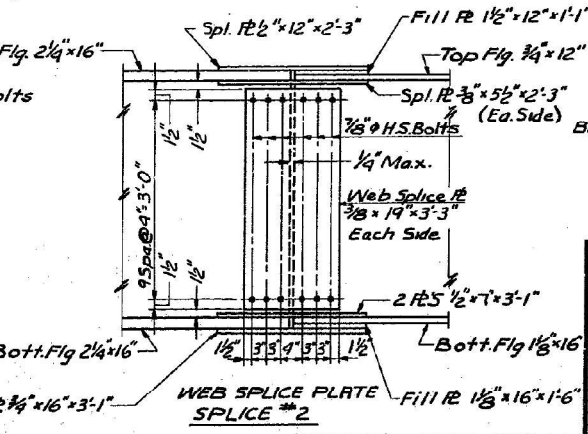
SECTION A-A
1/4" x 4" CR 1020 steel, granular or solid, flux-filled, headed studs. Automatically end welded. 1740 studs required.



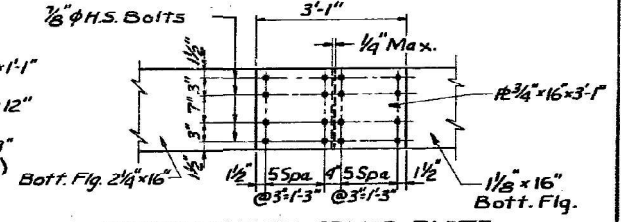
WEB SPLICE PLATE SPLICE #1



BOTTOM FLANGE SPLICE PLATE SPLICE #1



WEB SPLICE PLATE SPLICE #2



BOTTOM FLANGE SPLICE PLATE SPLICE #2

REVISIONS			STATE OF ILLINOIS DEPT. OF PUBLIC WORKS AND BUILDINGS DIVISION OF HIGHWAYS	
NO.	DATE	INITIALS	BY	DATE
1			RIH	4-75
2				
3				
4				
5				
6				
7				
8				
9				
10				

C.H. 13 OVER F.R. 1-90		PROJECT NO.	2601-1
F.A.P. 112 SEC. 50-248-3(R) PROJ.		DRAWN BY	
STR. 18+05.38(C.H.13) LASALLE CO.		CHECKED BY	
HOMER L. CHASTAIN & ASSOCIATES CONSULTING ENGINEERS DECATUR, ILLINOIS		SCALE	

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DESIGNED - P. SARICH	REVISED -
CHECKED - I. LOPEZ	REVISED -
DRAWN - P. SARICH	REVISED -
CHECKED - P. SARICH	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

1976 EXISTING BRIDGE PLANS
STRUCTURE NO. 050-0093

SHEET 24 OF 28 SHEETS

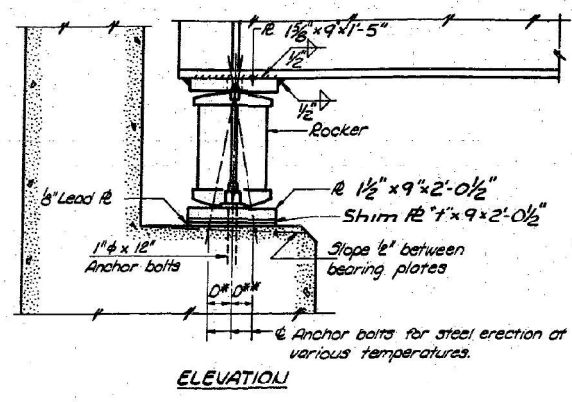
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260	[(50-2) BR-10, BR-13] BJR, BDR	LASALLE	64	39
CONTRACT NO. 66M69				

ILLINOIS FED. AID PROJECT

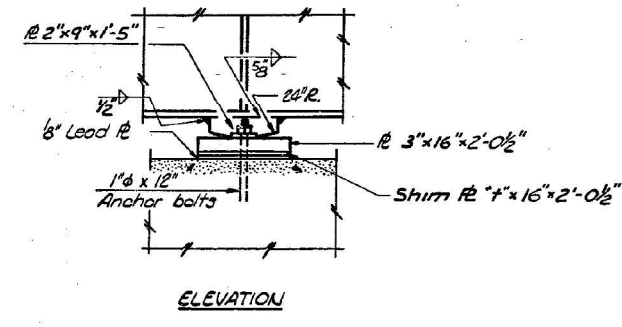
FOR INFORMATION ONLY

Sheet No. 9
of 12 Sheets

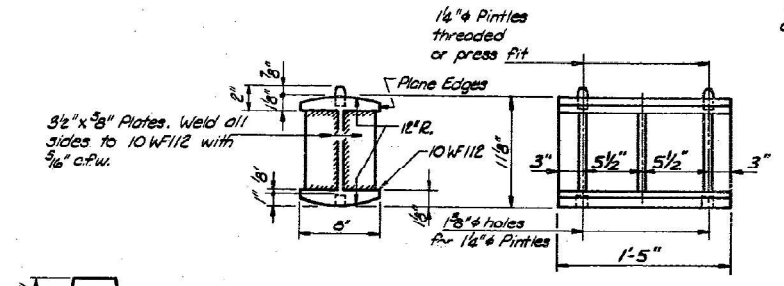
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FA. 412	3(R)	LaSalle	156	71
FED. ROAD DIST. NO.	ILLINOIS	PROJECT		



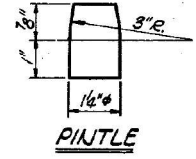
ELEVATION



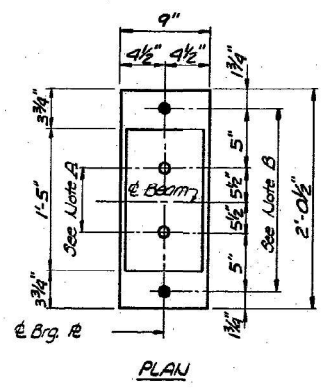
ELEVATION



ROCKER



PINTLE

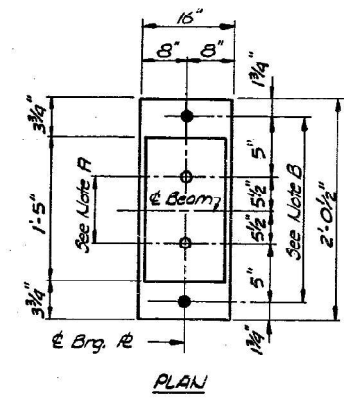


PLAN

AT ABUTMENT

NOTE A
1 1/8 inch holes - 1 inch deep in top flange for pintles. Thread or press fit pintles into bottom flange.

NOTE B
1 1/2 inch holes for 1 inch anchor bolts. 2 inch x 2 inch x 3/16 inch washers under nut.



PLAN

AT PIER

NOTES ON SETTING OF ANCHOR BOLTS AT EXPANSION BEARINGS

- a) D* (Side of brg. away from fixed brg.)
D* = 6" per each 100' of expansion for every 15° below the normal temperature of 50° F.
- D** (Side of brg. toward fixed brg.)
D** = 6" per each 100' of expansion for every 15° above the normal temperature of 50° F.
- b) After beams have been erected and dimensions D* or D** determined, holes shall be drilled and anchor bolts shall be grouted in place. All fixed anchor bolts may be built into the masonry.

MOMENT TABLE - Composite 2 Span (Composite in Positive Moment areas only)

	INTERIOR GIRDER MOMENT TABLE		
	0.4 Span 1	Pier	0.6 Span 2
I _s (in. ⁴)	13370	38362	14771
I _c (in. ⁴)	35970		40779
I _{cn} (in. ⁴)	25847		29135
S _s (in. ³)	688	1650	818
S _c (in. ³)	960		1135
S _{bn} (in. ³)	880		1091
R (K/I)	451	1150	966
M _R (K)	462	1741	637
f _{sR} (ksi)	8	13	9
S _R (K/I)	0.45	0.45	0.45
M _{sR} (K)	295	657	367
f _{sR} (ksi)	4	5	4
M _t (K)	818	827	915
M _{Imp} (K)	183	182	198
Total (K)	1001	1009	1113
f _s & Imp (ksi)	13	7	12
f _s Total (ksi)	25	25	25
VR (K)	56.3		56.7

	SHIM PLATE THICKNESS (t)				
	1	2	3	4	5
ABUT. 1					
PIER	3/8"				
ABUT. 2					3/8"

	INTERIOR GIRDER REACTION TABLE		
	ABUTMENT	PIER	ABUTMENT
R _E (K)	47	201	54
R _I (K)	48	78	48
Imp. (K)	11	17	11
R _{TOTAL} (K)	106	296	112

I_s and I_c are the moment of inertia and section modulus of the steel section.
I_{cn} and S_{bn} are the moment of inertia and section modulus of the composite section used in computing I_s.
I_c and S_{bn} are the moment of inertia and section modulus of the Composite Section used in computing f_s for r=30.
VR is the maximum &+Impact shear range.

BEARING DETAILS

REVISIONS	STATE OF ILLINOIS DEPT. OF PUBLIC WORKS AND BUILDINGS DIVISION OF HIGHWAYS	DESIGNED BY P. SARICH
1	C.H. 13 OVER F.R. 1-80 F.A.P. 412 SEC. 50-2 HB-3 (R) PROJ. STA. 18+08.38 (C.H. 13) LASALLE CO.	CHECKED BY R.O.B. S-25
2		PROJECT NO. 2601-1
3		SHEET NO.
4		
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HOMER L. CHASTAIN & ASSOCIATES
CONSULTING ENGINEERS
DECATUR, ILLINOIS

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PLOT DATE =	DRAWN - P. SARICH	REVISED -
	CHECKED - P. SARICH	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

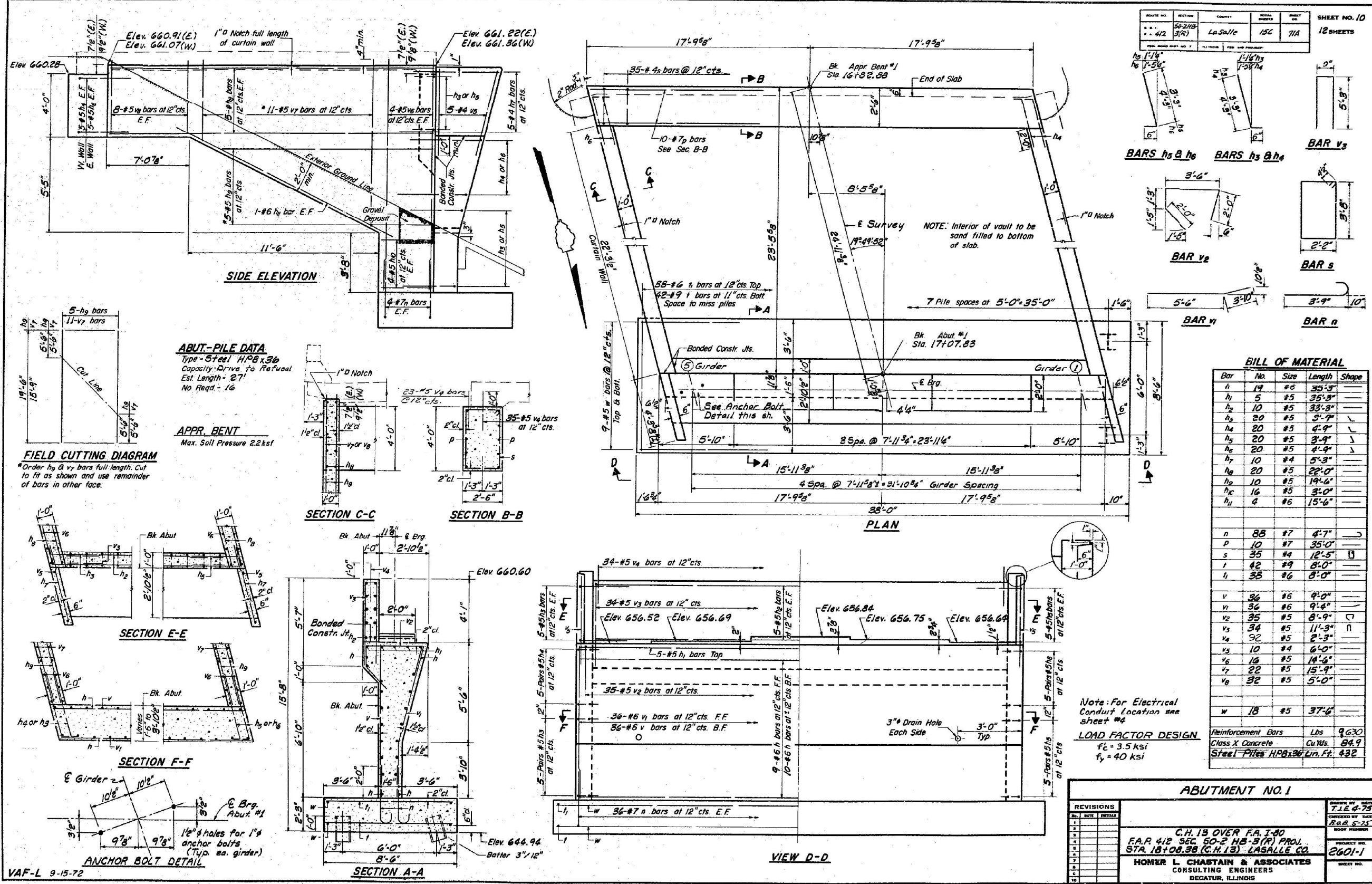
1976 EXISTING BRIDGE PLANS
STRUCTURE NO. 050-0093

SHEET 25 OF 28 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
260	[(50-2) BR-10, BR-13] BJR, BDR	LASALLE	64	40
CONTRACT NO. 66M69				

ILLINOIS FED. AID PROJECT

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	CHECKED - P. SARICH	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

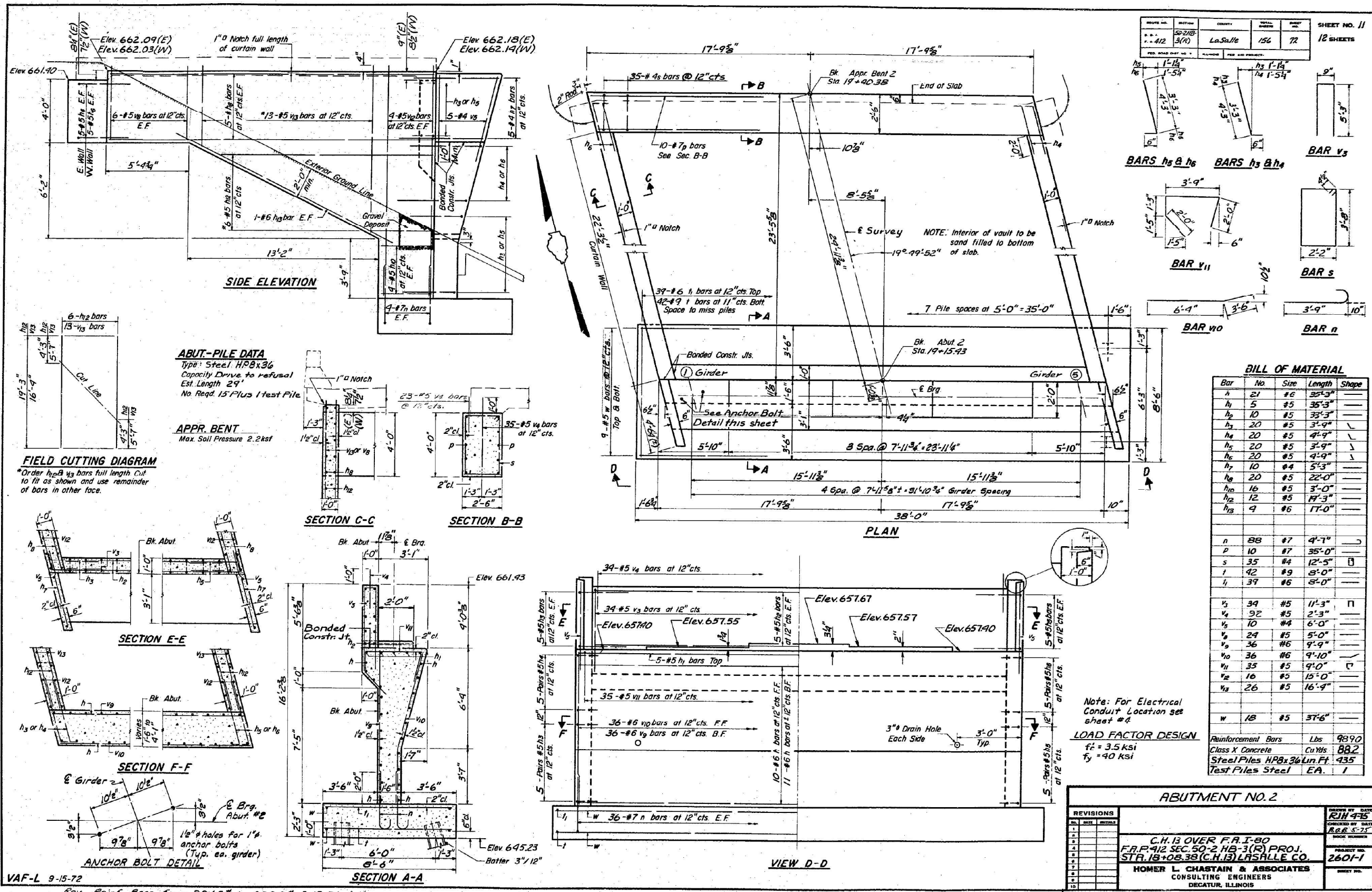
1976 EXISTING BRIDGE PLANS
 STRUCTURE NO. 050-093

SHEET 26 OF 28 SHEETS

F.A.S. RITE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
260	((50-2) BR-10, BR-13) BJR, BDR	LASALLE	64	41
CONTRACT NO. 66M69				

ILLINOIS FED. AID PROJECT

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	P. SARICH	I. LOPEZ		
	P. SARICH	P. SARICH		
	P. SARICH	P. SARICH		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

1976 EXISTING BRIDGE PLANS
STRUCTURE NO. 050-0093

SHEET 27 OF 28 SHEETS

F.A.S. RITE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
260	((50-2) BR-10, BR-13) BJR, BDR	LASALLE	64	42

CONTRACT NO. 66M69

ILLINOIS FED. AID PROJECT

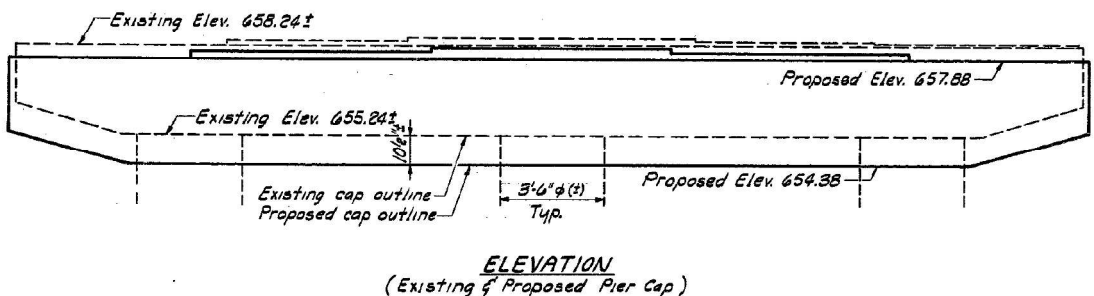
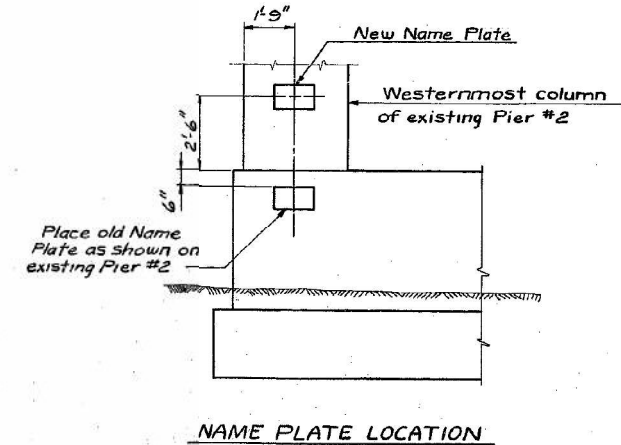
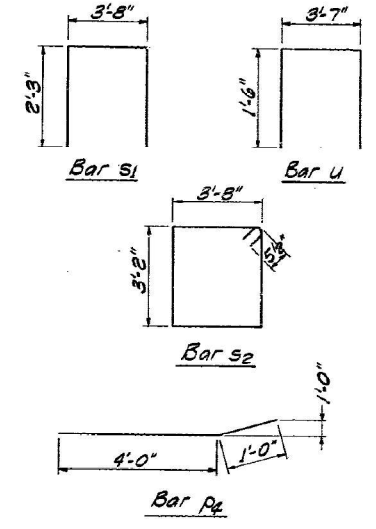
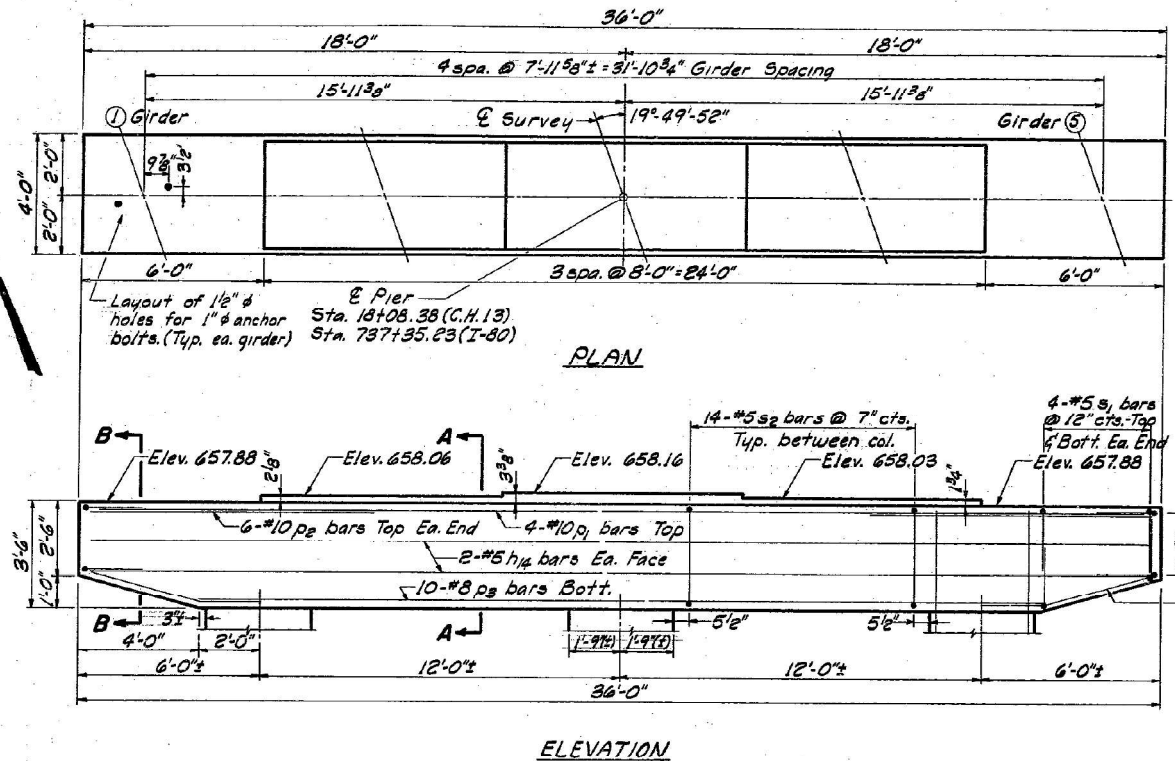
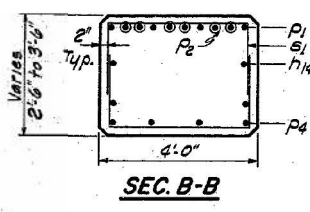
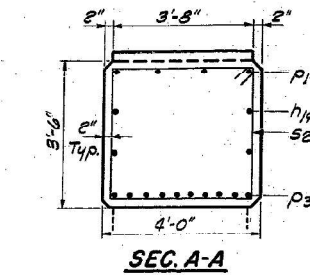
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Sheet No. 12
of 12 Sheets

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA. 412	50-2 HB-3(R)	LaSalle	66	72A
PROJ. DIST. NO.	ALLIANCE	PROJECT		

NOTES

Space reinforcement in cap to miss anchor bolts.
All edges shall have standard 3/4" chamfers except as noted.
Pour steps monolithically with cap.



NOTE:
All concrete in existing pier shall be removed above Elev. 654.38. Existing column reinforcement shall not be removed but cleaned, straightened, and placed in the new cap.
Cost of cleaning, straightening reinforcement is incidental to Concrete Removal.

BILL OF MATERIAL

Bar	No	Size	Length	Shape
h1/4	4	#5	35'-6"	
p1	4	#10	35'-6"	
p2	12	#10	10'-6"	
p3	10	#8	28'-0"	
p4	8	#5	5'-0"	
s1	16	#5	8'-2"	
s2	28	#5	14'-7"	
u	6	#5	6'-7"	
Class X Concrete		Cu. Yds.	18.7	
Reinforcement Bars		Lbs.	2,690	
Concrete Removal		Cu. Yds.	16.7	

REVISIONS		PIER	
NO.	DATE	BY	REASON
1			
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DESIGNED BY DATE T. J. E. 4-75	PROJECT NO. 2001-1
CHECKED BY DATE R. G. 5-75	SHEET NO.
C.H. 13 OVER FA. 1-80 FA. 412 SEC. 50-2 HB-3(R) PROJ. STA. 18+08.38 (C.H. 13) LASALLE CO. HOMER L. CHASTAIN & ASSOCIATES CONSULTING ENGINEERS DECATUR, ILLINOIS	

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PLOT DATE =	DRAWN - P. SARICH	REVISED -
	CHECKED - P. SARICH	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

1976 EXISTING BRIDGE PLANS
STRUCTURE NO. 050-0093

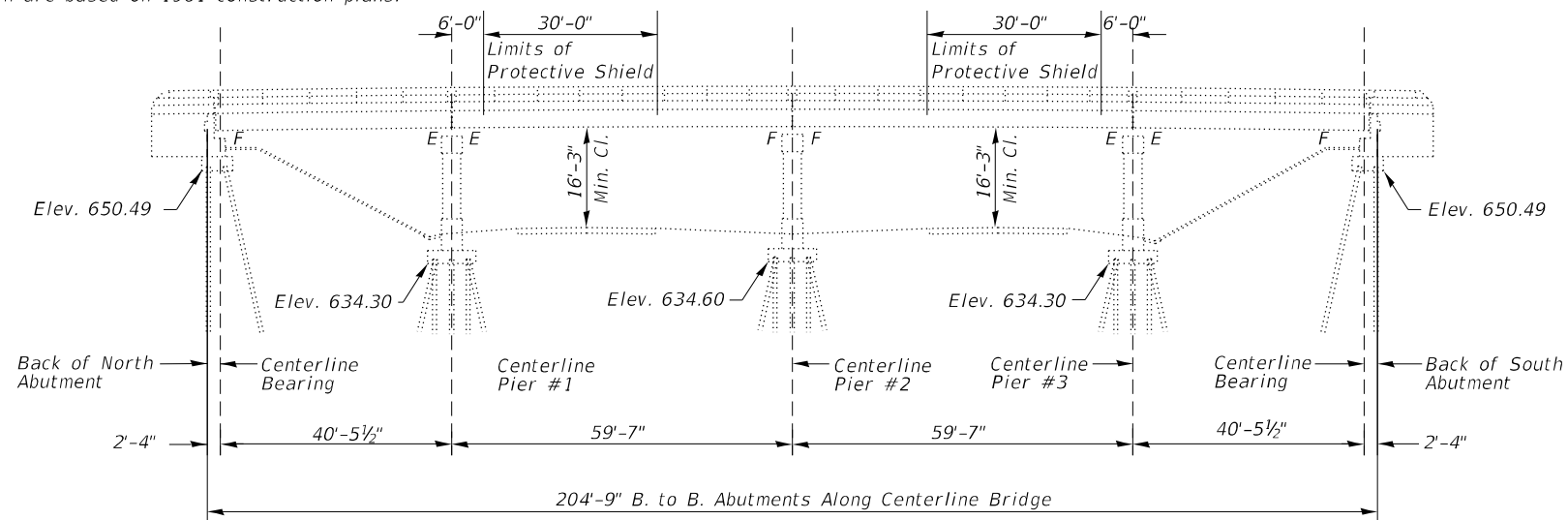
SHEET 28 OF 28 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
260	[(50-2) BR-10, BR-13] BJR, BDR	LASALLE	64	43
CONTRACT NO. 66M69				

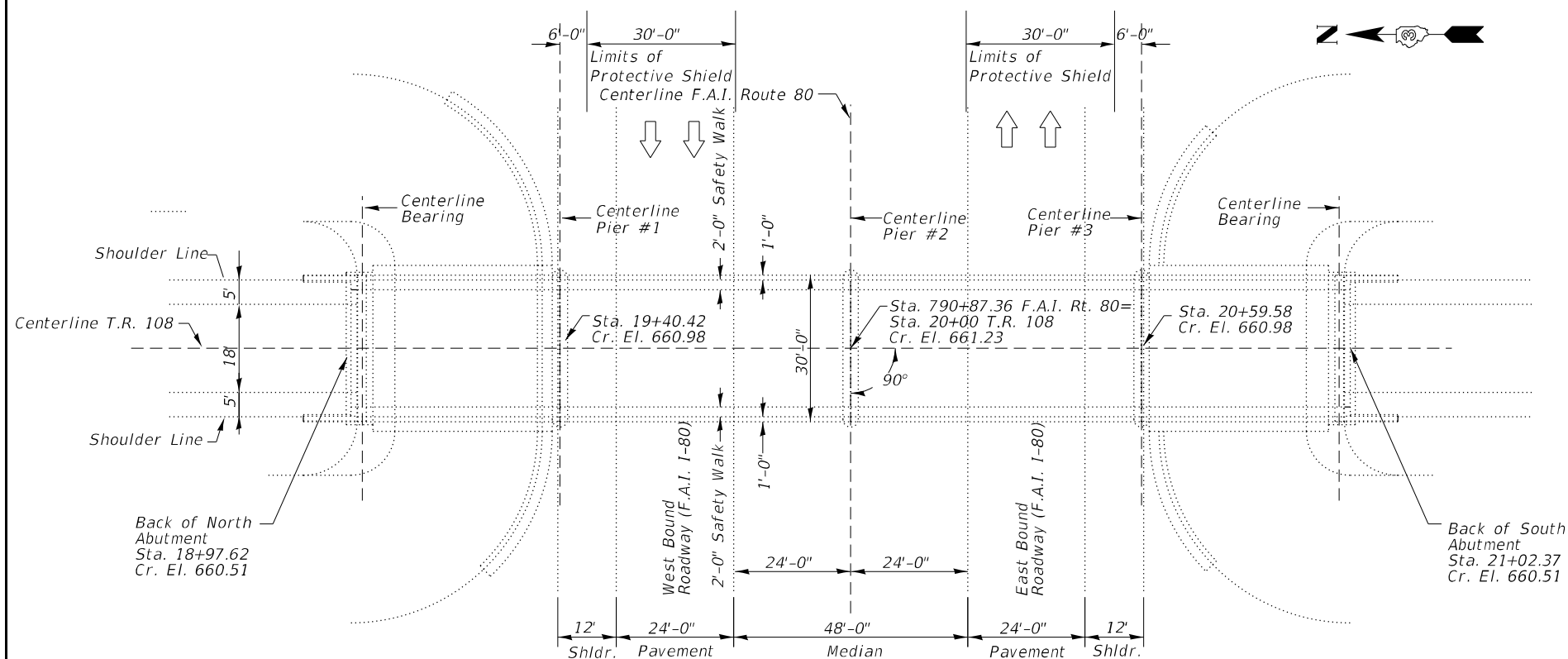
ILLINOIS FED. AID PROJECT

Existing Structure: SN 050- 0125 is comprised of four simply supported precast prestressed I beam spans on stub abutments.

Elevations shown are based on 1961 construction plans.



ELEVATION



PLAN

DESIGN STRESSES (ORIGINAL CONSTRUCTION)

Concrete (Cast in Place)
 $f_c = 3500$ psi
 $f_c = 1400$ psi
 $f_c =$ (With Earth Pressure) 1000 psi
 $v =$ (Pier Footing) 75 lbs. psi
 $n = 10$

Prestressed Concrete
 $f_c = 5000$ psi
 $f_{ci} = 4000$ psi
 $f_c = 2000$ psi

Reinforcing Steel
 $f_s = 20,000$ psi
 Prestensioning Steel
 $f_{su} = 248,000$ psi
 $f_{si} = 173,600$ psi

DESIGN STRESSES (NEW CONSTRUCTION)

Concrete
 $f'_c = 4,000$ psi
 Reinforcing Steel
 $f_y = 60,000$ psi



2/9/2023
 Expires 11/30/2024

TOTAL BILL OF MATERIAL

Item	Unit	Super	Subst.	Total
Protective Coat	Sq. Yd.	715		715
Concrete Removal	Cu. Yd.	24.0		24.0
Protective Shield	Sq. Yd.	178		178
Concrete Superstructures	Cu. Yd.	27.5		27.5
Bridge Deck Grooving	Sq. Yd.	495		495
Painting Steel Railing	Foot	405		405
Reinforcement Bars, Epoxy Coated	Pound	3,370		3,370
Preformed Joint Strip Seal	Foot	112		112
Furnishing and Erecting Structural Steel	Pound	1,930		1,930
Jack and Remove Existing Bearings	Each	10		10
Structural Repair of Concrete (Depth Less than or equal to 5")	Sq. Ft.	3	6	9
Structural Repair of Concrete (Depth Greater than 5")	Sq. Ft.		8	8
Bridge Deck Latex Concrete Overlay 2 1/4" Inches	Sq. Yd.	508		508
Bridge Deck Scarification 3/4"	Sq. Yd.	508		508
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	21		21
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	19		19
Bridge Rail Removal	Foot	44		44

GENERAL NOTES

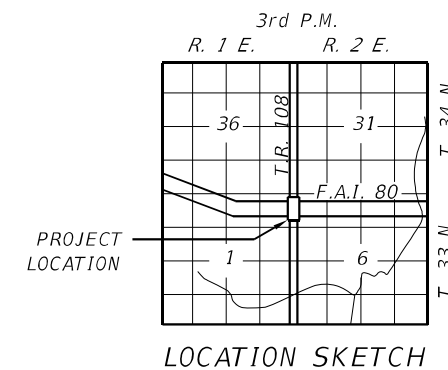
- Reinforcement bars designated (E) shall be epoxy coated.
- Plan dimensions and details relative to existing plans are subject to nominal construction variations. The contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering materials. Such variations shall not be cause for additional compensation. For a change in scope of work; however, the contractor will be paid for the quantity actually furnished at the unit price bid for the work.
- Existing reinforcement shall be cleaned and incorporated into the new construction. Cost included with Concrete Removal.
- The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.
- The contractor shall use extreme care during concrete removal so as not to damage the PPC I-Beams.
- Work to be Completed under Road Closure.
- Existing structural steel that will be in contact with new structural steel shall be cleaned and painted prior to erection as required by the special provision "Cleaning and painting contact surfaces of existing steel structures".

PROPOSED WORK

- Full and partial depth patching.
- Replace joints.
- Remove and replace fixed bearings at abutments.
- Remove and replace tops of wingwalls.
- Scarify deck and apply overlay.
- Apply protective coat on deck.
- Paint steel railing.
- Structural repair of concrete at parapet and piers.

INDEX OF SHEETS

- General Plan & Elevation
- Typical Cross Section
- Deck Repair Plan
- Deck Repair Plan (As-Built)
- Railing Repairs
- Joint Removal
- Expansion Joint Repair
- Preformed Joint Seal
- Fixed Bearing Replacement
- Pier Repairs
- 11-22 1961 Reference Plans



LOCATION SKETCH

GENERAL PLAN AND ELEVATION
E 6th ROAD (TR 108) OVER I-80
F.A.I. 80
SEC. [(50-2)BR-10, BR-13]BJR, BDR
LASALLE COUNTY
STATION 790+87.36
STRUCTURE NO. 050-0125

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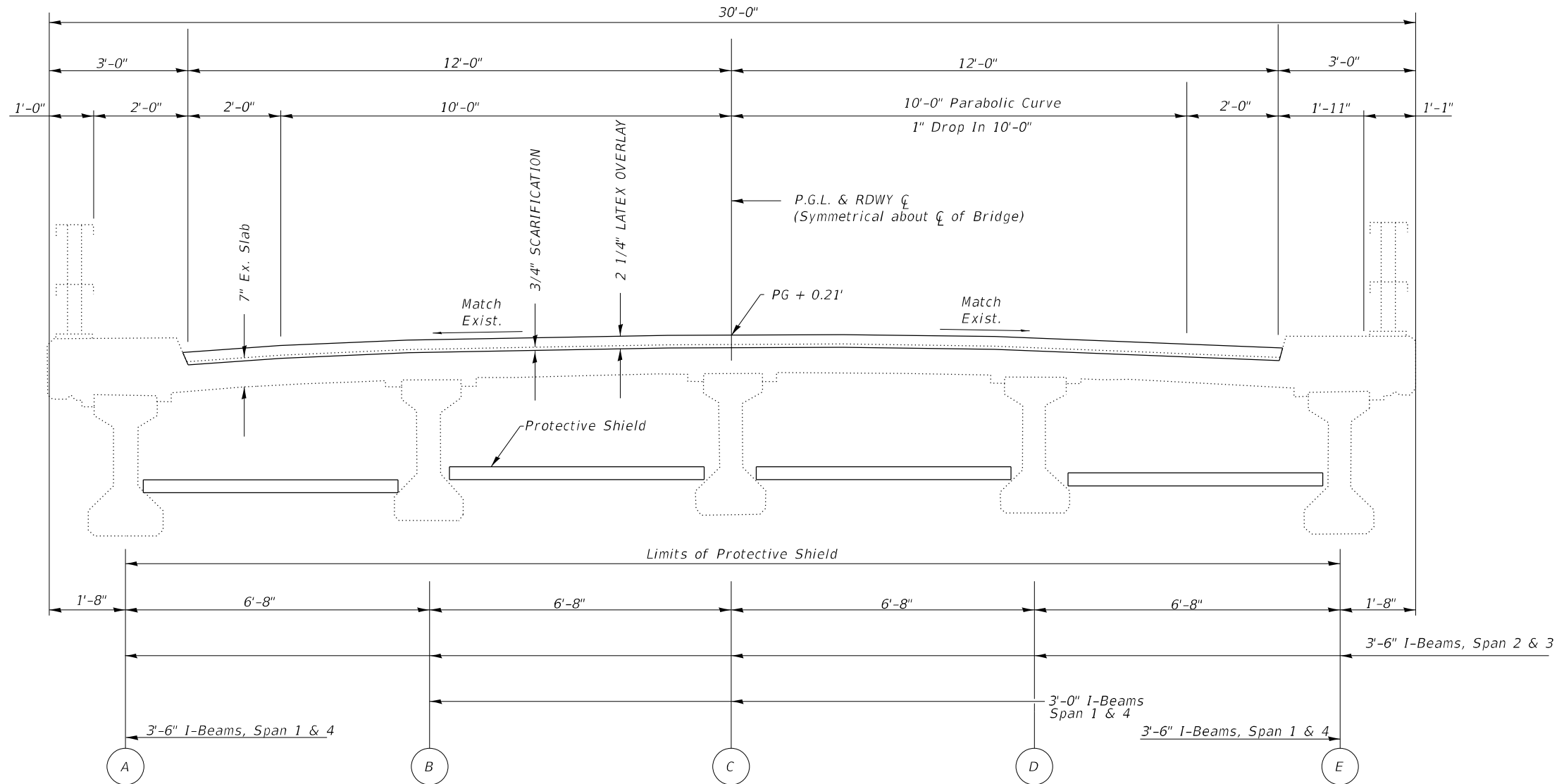
745 McClintock Drive
 Suite 210
 Burr Ridge, IL 60527
 Ph. 773-881-4788
 Fax: 773-239-3728

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PLOT DATE = 2/10/2023	DRAWN - MBJ	REVISIONS -
	CHECKED -	REVISIONS -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION
STRUCTURE NO. 050-0125
 SHEET 1 OF 21 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	[(50-2)BR-10, BR-13]BJR, BDR	LaSalle	64	44
CONTRACT NO. 66M69				
ILLINOIS FED. AID PROJECT				



TYPICAL CROSS SECTION

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Fax: 773-239-3728

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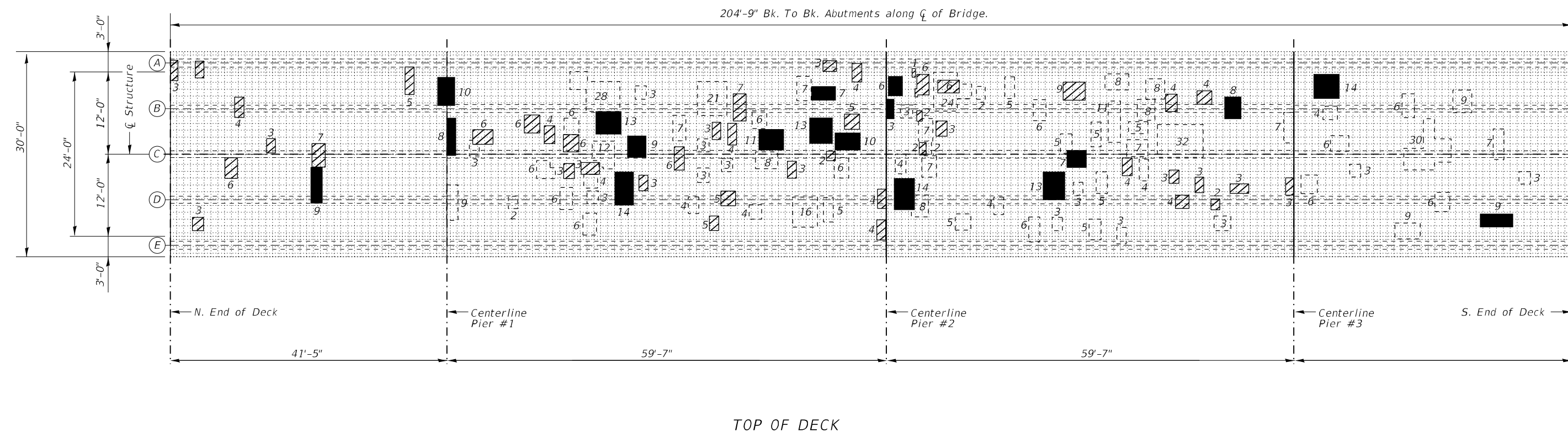
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL CROSS SECTION
STRUCTURE NO. 050-0125

SHEET 2 OF 21 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	[(50-2)BR-10, BR-13]BRJ, BDR	LaSalle	64	45
CONTRACT NO. 66M69				

ILLINOIS FED. AID PROJECT



REPAIR LEGEND

- Partial Depth
- Full Depth, Type I
- Full Depth, Type II
- 1' X 1' Gridlines

NOTE:

Deck slab repair areas shown are estimated. The engineer shall sound the entire deck area at time of construction to determine exact locations and areas of repairs. Areas of actual repairs shall be shown on the "as-built" plans.

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Deck slab repair (Partial)	SQ. YD.	54
Deck slab repair (Full depth, Type I)	SQ. YD.	21
Deck slab repair (Full depth, Type II)	SQ. YD.	19

* For information only. Cost included in bridge deck latex concrete overlay.

FILE NAME: J:\2022\16075\CAD_Sheets\0500125-66M69-03-DeckRepairPlan.dgn



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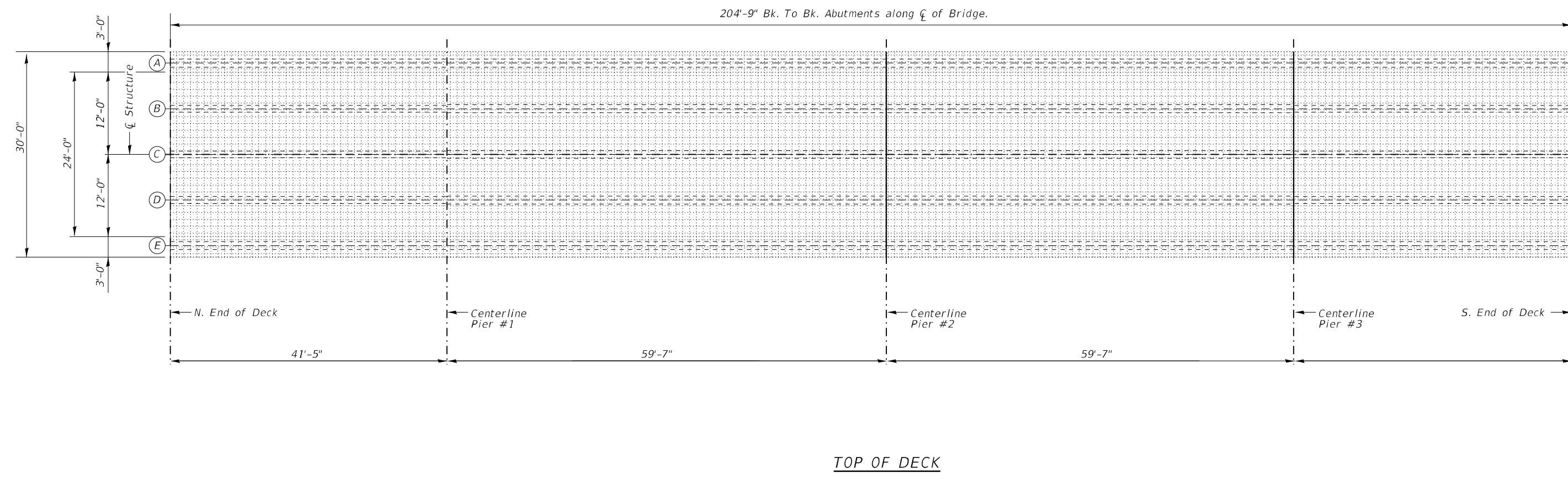
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PLOT DATE =	2/10/2023	CHECKED -		REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DECK REPAIR PLAN
STRUCTURE NO. 050-0125**

SHEET 3 OF 21 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	[(50-2)BR-10, BR-13]BRJ, BDR	LaSalle	64	46
CONTRACT NO. 66M69				
		ILLINOIS	FED. AID PROJECT	



REPAIR LEGEND

- Partial Depth
- Full Depth, Type I
- Full Depth, Type II
- 1' X 1' Gridlines

NOTE:
The engineer shall mark the actual area and locations of deck slab repair as part of the "as-built" plans.

AS BUILT RECORD SHEET

Item	Unit	Quantity
Deck slab repair (Partial)	Sq. Yd.	
Deck slab repair (Full depth, Type I)	Sq. Yd.	
Deck slab repair (Full depth, Type II)	Sq. Yd.	

FILE NAME: J:\2022\16075\CAD_Sheets\0500125-66M69-04-DeckRepairPlanAsBuilt.dgn



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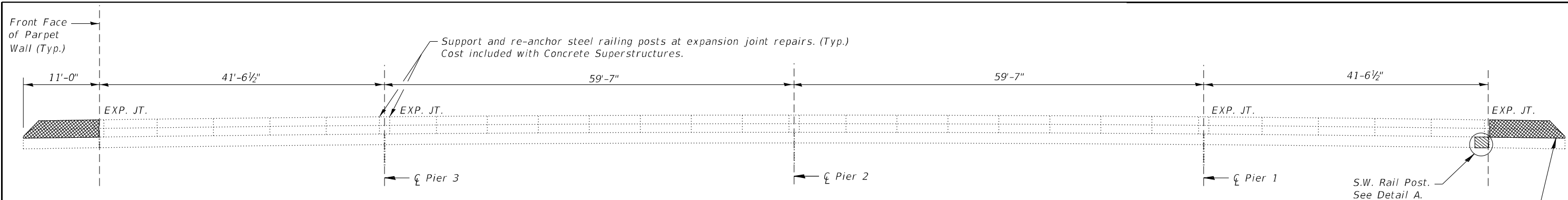
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

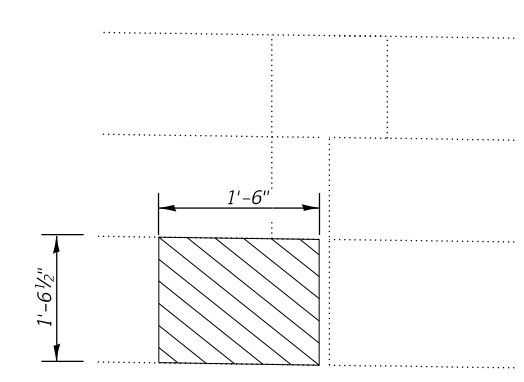
**DECK REPAIR PLAN "AS-BUILT"
STRUCTURE NO. 050-0125**

SHEET 4 OF 21 SHEETS

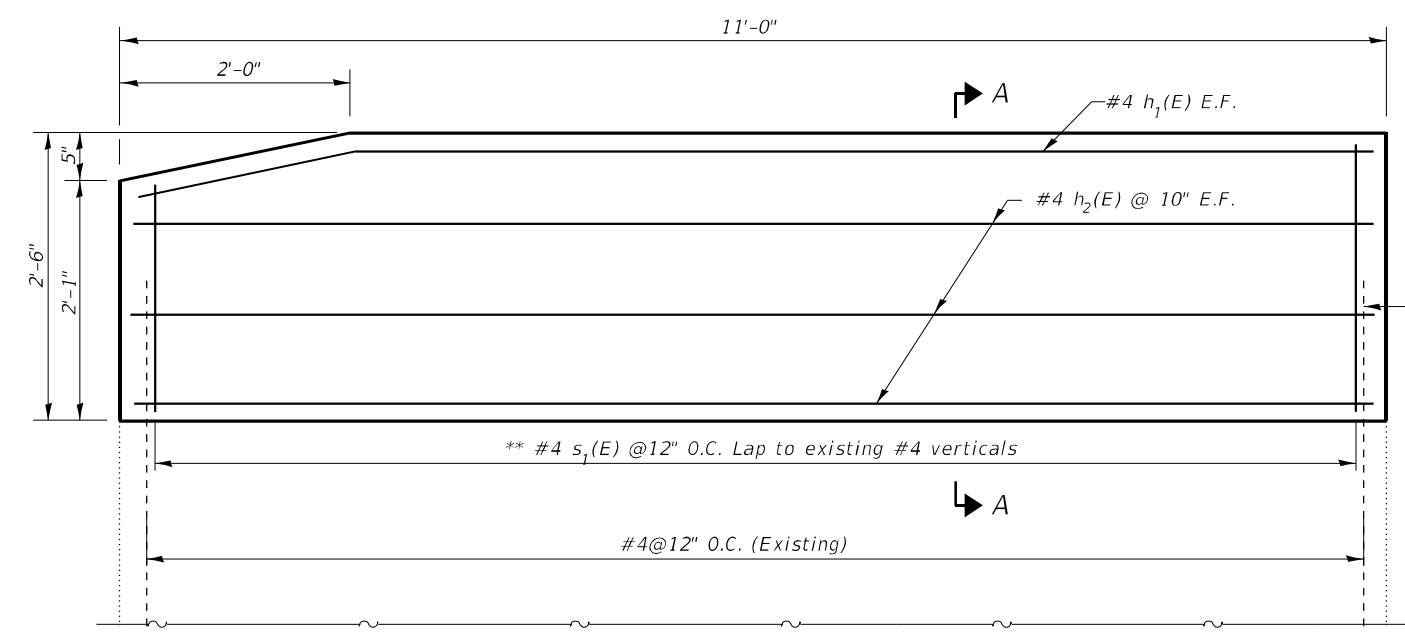
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	[(50-2)BR-10, BR-13]BRJ, BDR	LaSalle	64	47
CONTRACT NO. 66M69				
ILLINOIS		FED. AID PROJECT		



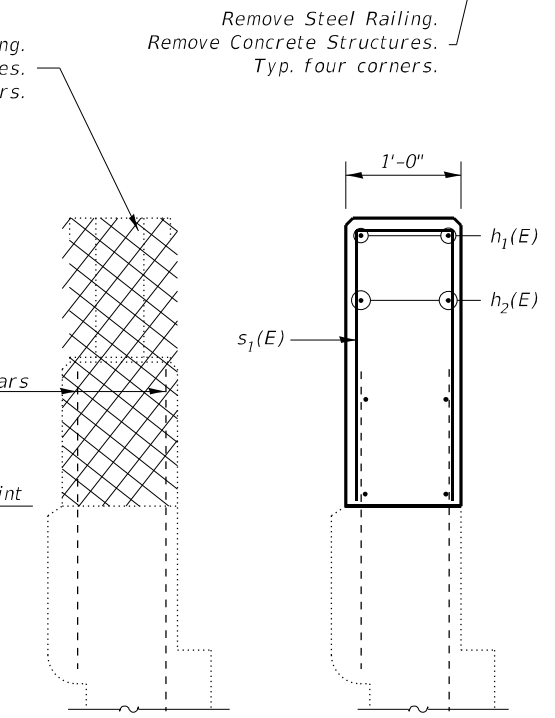
RAILING ELEVATION
 Similar Thru 180° Rotation
 West Handrail Shown, East Handrail



DETAIL A*
 SW. Rail Post.



WINGWALL ELEVATION
 ** Field Cut vertical legs to fit at 2'-0" taper.

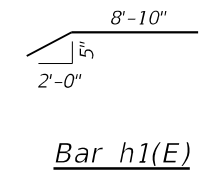
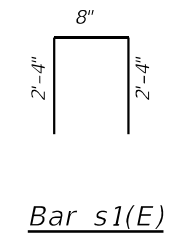


EXISTING SECTION A-A **PROPOSED SECTION A-A**

*** NOTE:**
 Repair areas shown are estimated.
 The engineer shall determine the exact locations, extent and areas of repairs.

LEGEND

Structural repair of concrete (Depth less than or equal to 5")



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h1(E)	8	#4	10'-11"	
h2(E)	24	#4	10'-8"	
s1(E)	48	#4	5'-4"	
ITEM		UNIT	QUANTITY	
Concrete Removal		Cu. Yd.	2.1	
Concrete Superstructures		Cu. Yd.	3.2	
Painting Steel Railing		Foot	405	
Reinforcement Bars, Epoxy Coated		Pound	410	
Structural Repair of Concrete (Depth less than or equal to 5')		Sq. Ft.	3	
Bridge Rail Removal		Foot	44	

FILE NAME: J:\2022\16075\CAD_Sheets\0500125-66M69-05-RailingRepairs.dgn



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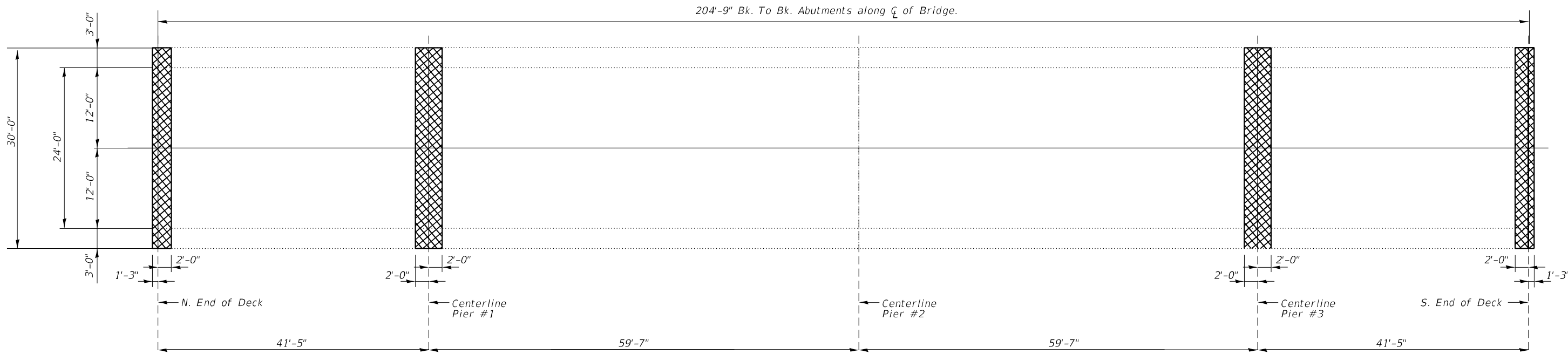
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PLOT SCALE = \$SCALE\$	CHECKED - SEA	REVISED -
PLOT DATE = 2/10/2023	DRAWN - MBJ	REVISED -
	CHECKED -	REVISED -

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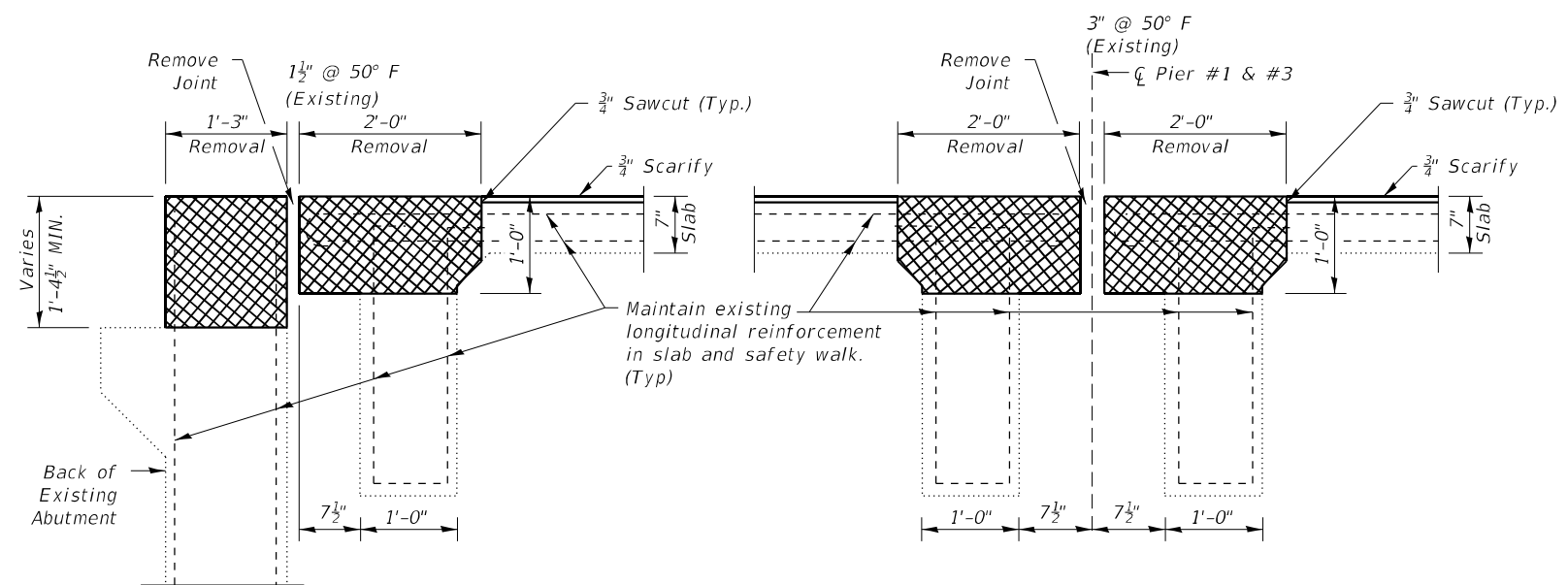
**RAILING REPAIRS
 STRUCTURE NO. 050-0125**

SHEET 5 OF 21 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	[(50-2)BR-10, BR-13]BRJ, BDR	LaSalle	64	48
CONTRACT NO. 66M69				
ILLINOIS FED. AID PROJECT				



JOINT REMOVAL



AT ABUTMENTS

AT EXPANSION PIERS

LEGEND

Concrete removal

JOINT REPAIR NOTES

PPC Beams extend to joint. Care shall be taken to protect flanges during concrete removal. (Engineer recommends if saw cuts are used, do not cut deeper than 6")

Steel posts have one coat of red lead paint. (Engineer recommends grinding (releasing) post to base plate weld prior to concrete removal).

Existing reinforcement bars shown are to be cleaned and incorporated into 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.

Existing reinforcement bars in the concrete removal area parallel to the expansion joints shall be removed.

Removal and disposal of the existing expansion joints will not be paid for separately, bt shall be included with the cost of Concrete Removal.

BILL OF MATERIAL

Item	Unit	Total
Concrete Removal	Cu. Yd.	21.9

FILE NAME: J:\2022\16075\CAD_Sheets\0500125-66M69-06-JointRemoval.dgn



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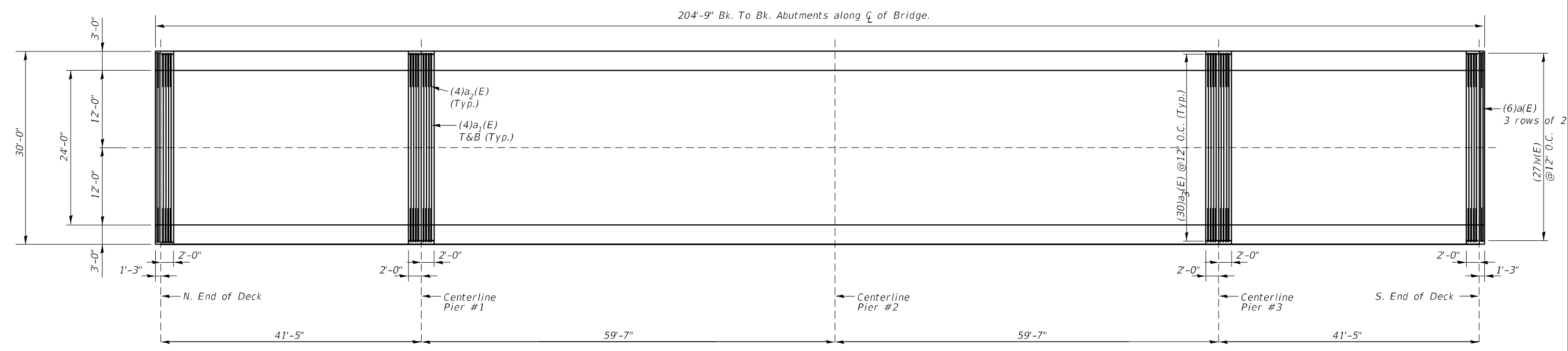
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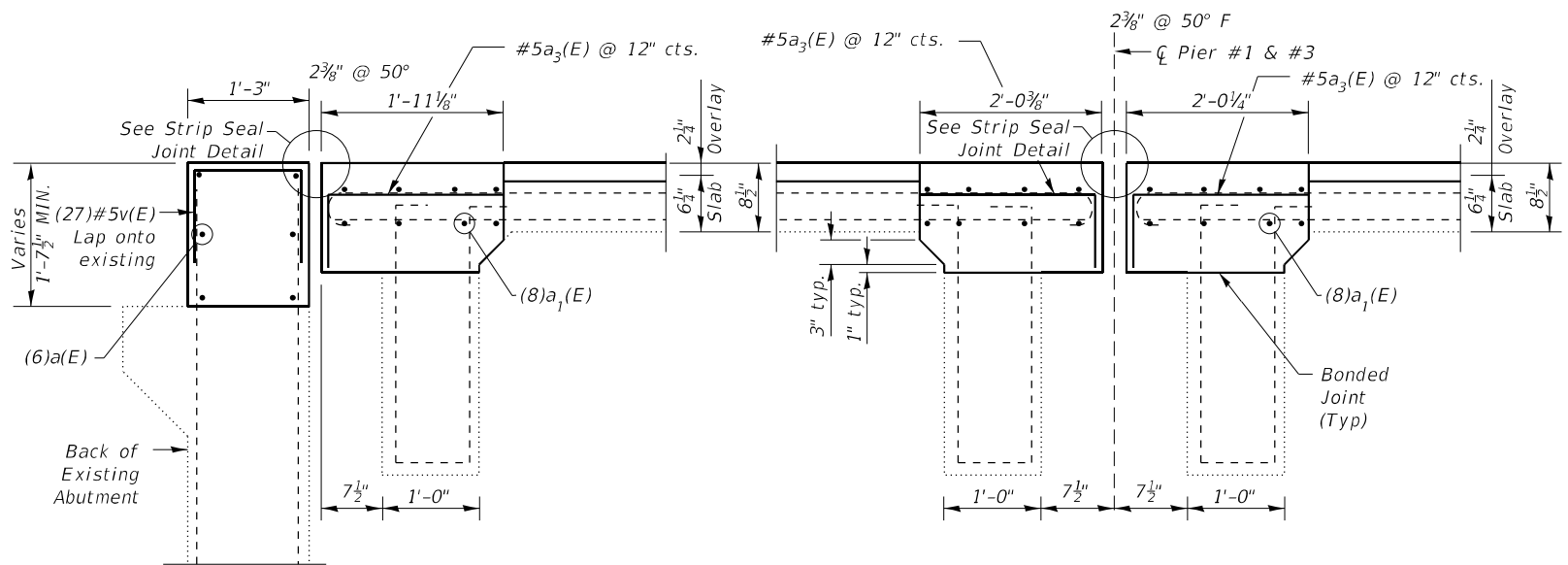
**JOINT REMOVAL
STRUCTURE NO. 050-0125**

SHEET 6 OF 21 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	[(50-2)BR-10, BR-13]BRJ, BDR	LaSalle	64	49
CONTRACT NO. 66M69				
ILLINOIS FED. AID PROJECT				



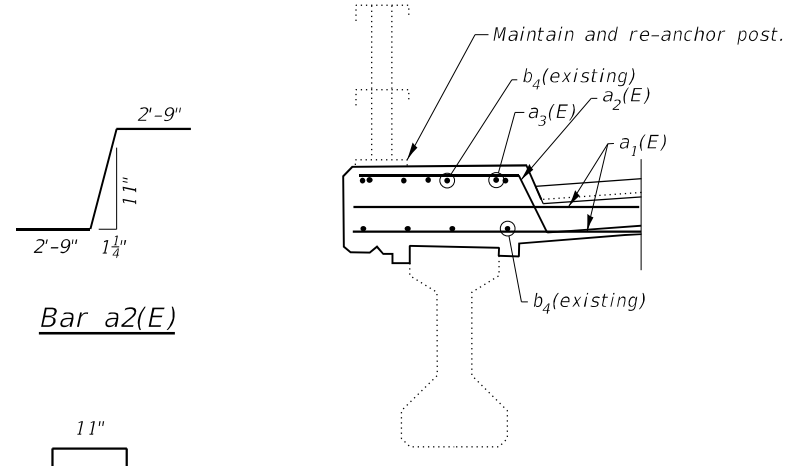
CONCRETE REPAIR



AT ABUTMENTS

Coordinate with bearing replacements.
Install pour block after final deck elevations.

AT EXPANSION PIERS



SAFETY WALK

See Detail "X" on sheet 14 of 21 to match safety curb dimensions.

See sheet 18 of 21 for embedded setting plates and slip joints.

Recommend for maintaining posts:

1. Grind post to base plate weld
2. Remove joint and concrete
3. Salvage base and setting plate assemble
4. Clean, reset, and cast assembly into new joint concrete
5. Re-weld post to reset base plate

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	12	#6	29'-10"	—
a1(E)	48	#5	29'-9"	—
a2(E)	48	#5	6'-5"	—
a3(E)	180	#5	2'-9"	—
v(E)	54	#4	3'-11"	⊥
Concrete Superstructures			Cu. Yd.	24.3
Reinforcement Bars, Epoxy Coated			Pound	2960
Protective Coat			Sq. Yd.	715

Bar a2(E)

Bar v(E)

Bar a3(E)

FILE NAME: J:\2022\16075\CAD_Sheets\0500125-66M69-07-ExpansionJointRepair.dgn



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**EXPANSION JOINT REPAIR
STRUCTURE NO. 050-0125**

SHEET 7 OF 21 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	[(60-2)BR-10, BR-13]BRJ, BDR	LaSalle	64	50
CONTRACT NO. 66M69				

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

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

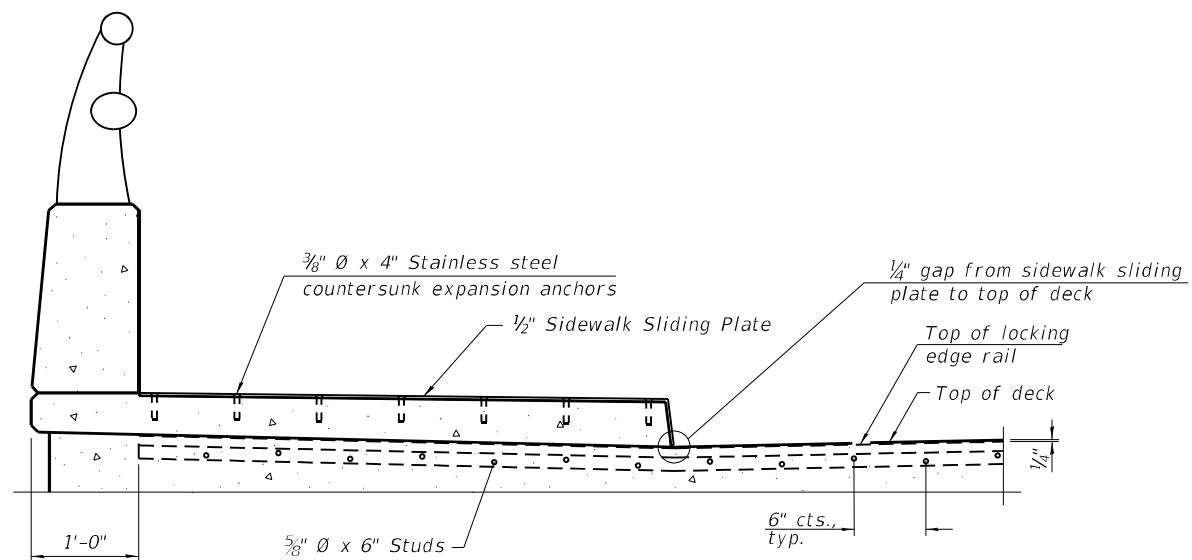
The manufacturer's recommended installation methods shall be followed.

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

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

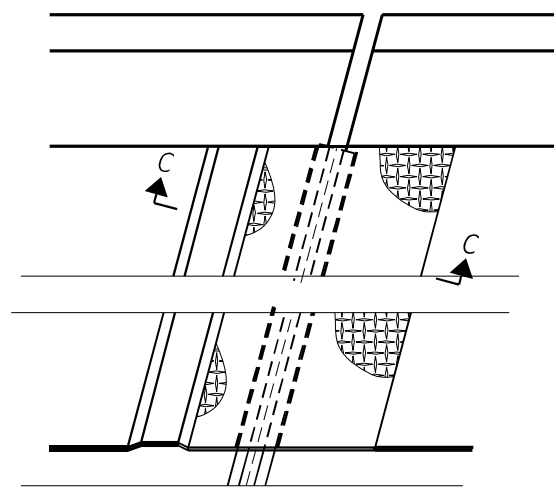
The concrete opening below the strip seal will vary based on the locking edge rail chosen by the Contractor. Deck and parapet lengths shown elsewhere in the plans are dimensioned to the concrete opening, not the joint opening, and are based on the rolled locking edge rail. If the Contractor elects to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

Sliding Plate Not Required

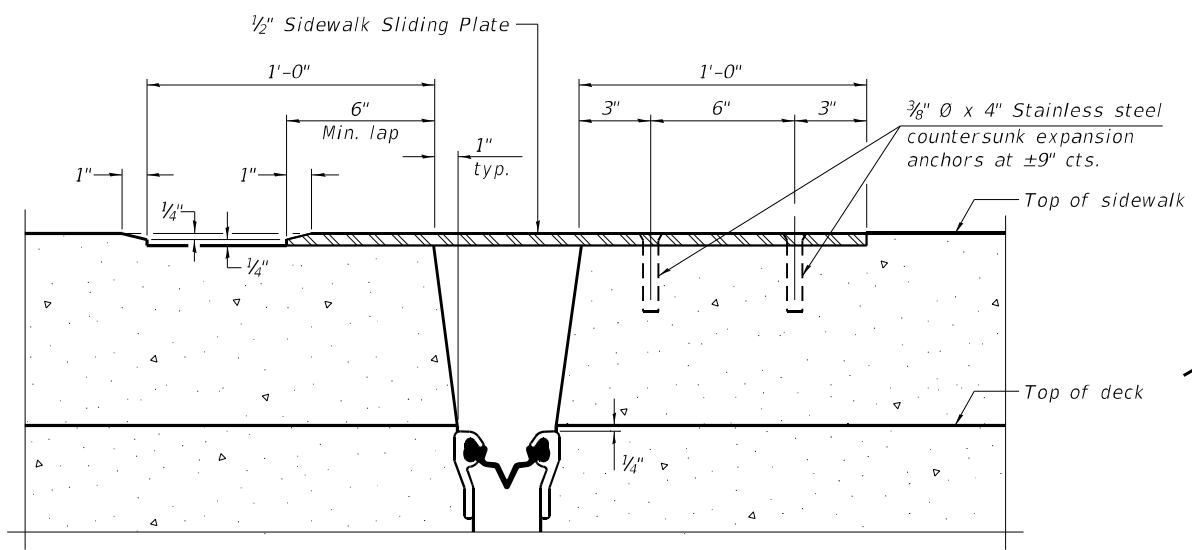


SECTION AT RAISED SIDEWALK

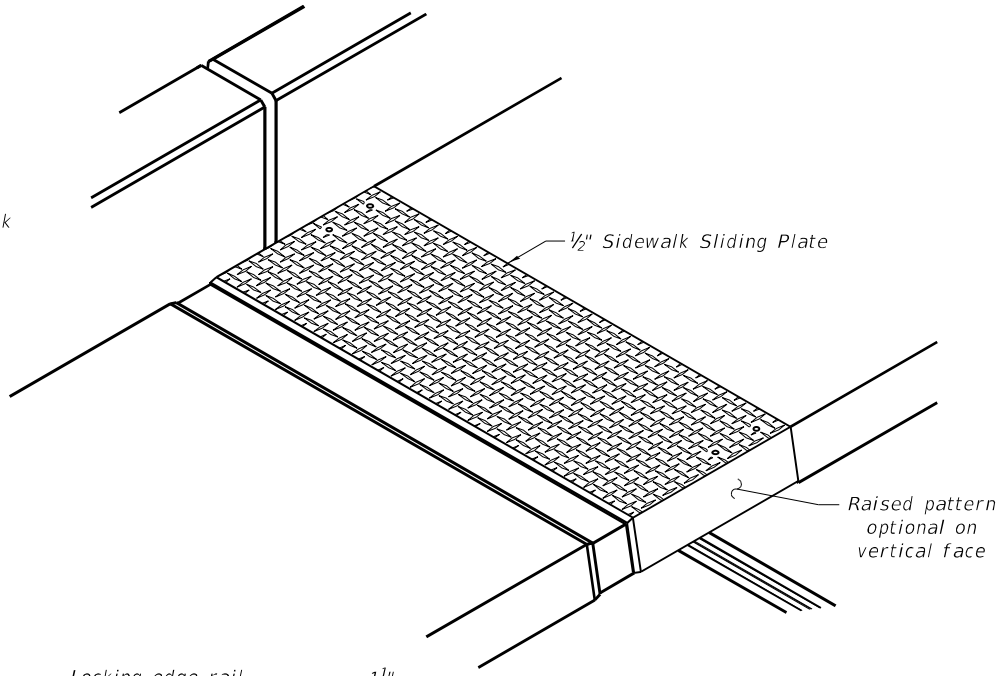
See Section C-C on sheet 17 of 21 for As-Built dimensions.



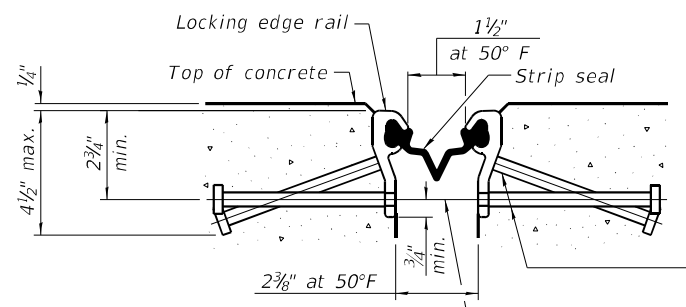
PLAN AT RAISED SIDEWALK



SECTION C-C



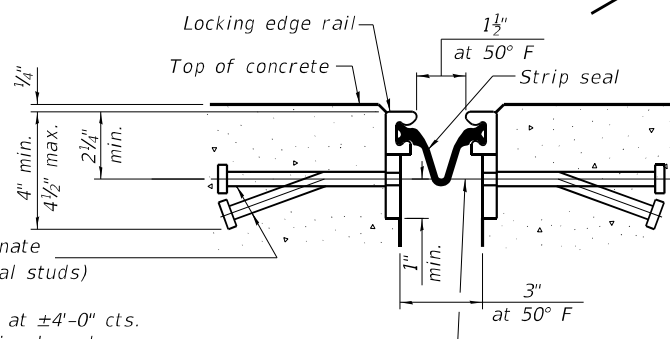
TRIMETRIC VIEW



SHOWING ROLLED RAIL JOINT

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

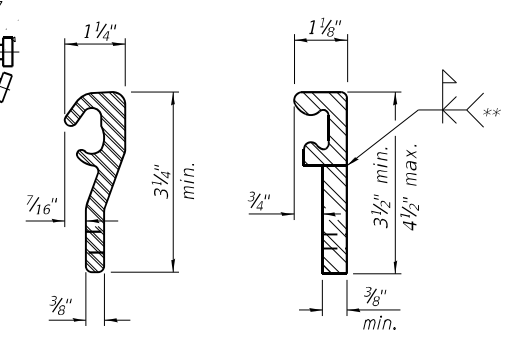
3/8" Ø threaded rods in 1/16" Ø holes at ±4'-0" cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.



SHOWING WELDED RAIL JOINT

SECTION A-A

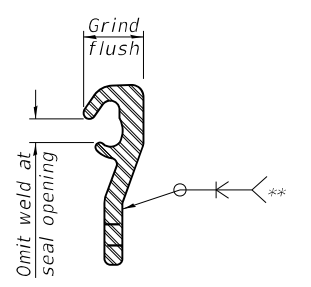
* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.



ROLLING EDGE RAILS

LOCKING EDGE RAILS

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



LOCKING EDGE RAIL SPLICE

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

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	112

FILE NAME: J:\2022\16075\CAD_Sheets\0500125-66M69-008-PreformedJointSeal.dgn



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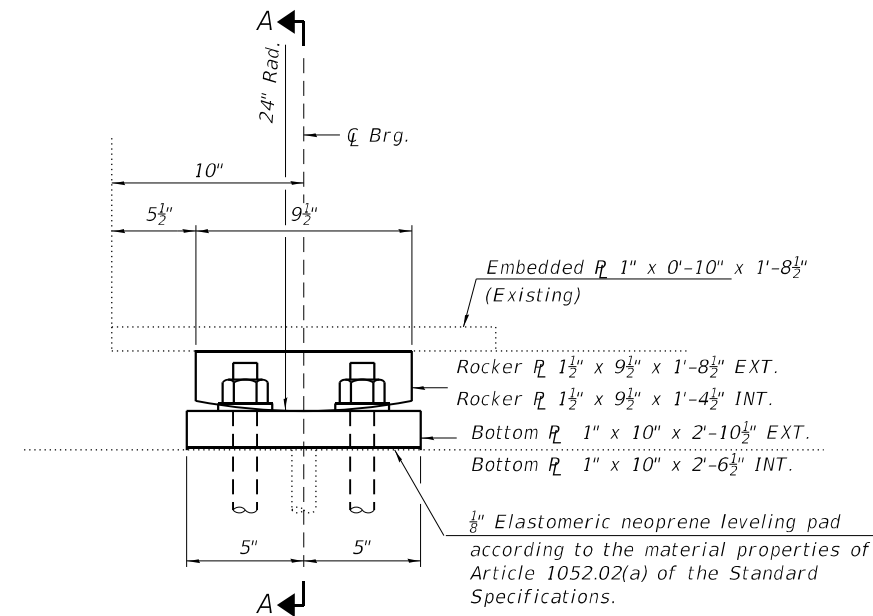
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	CHECKED -	REVISED -

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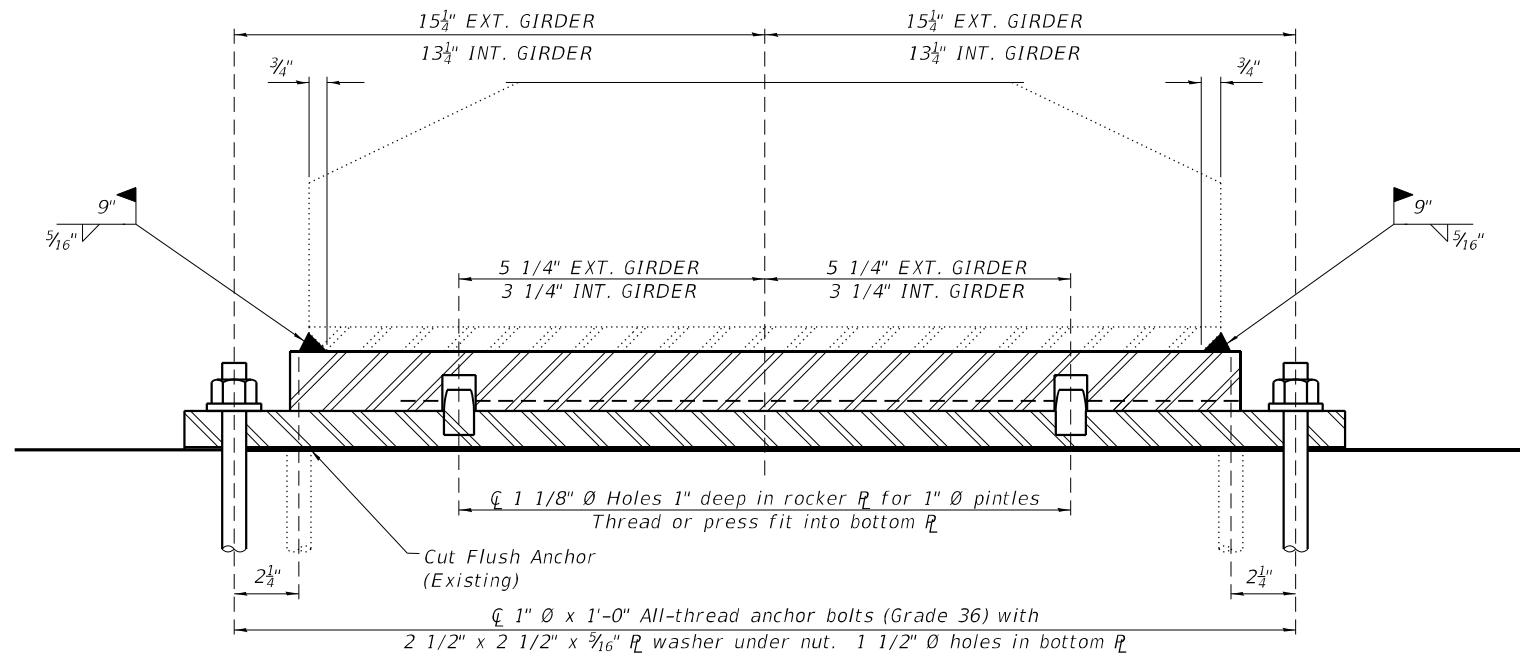
PREFORMED JOINT SEAL
 STRUCTURE NO. 050-0125

SHEET 8 OF 21 SHEETS

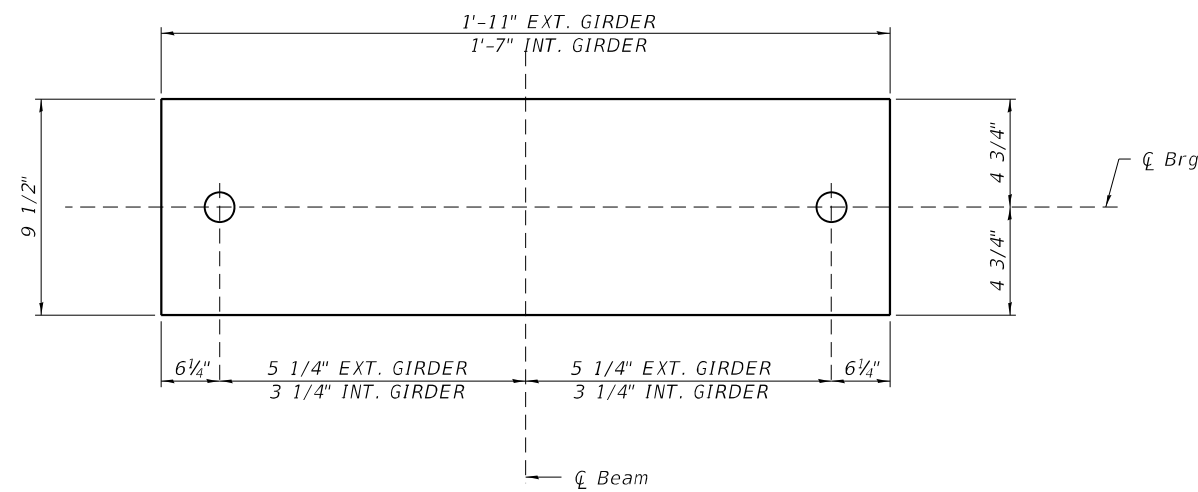
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	[(60-2)BR-10, BR-13]BRJ, BDR	LaSalle	64	51
CONTRACT NO. 66M69				
ILLINOIS / FED. AID PROJECT				



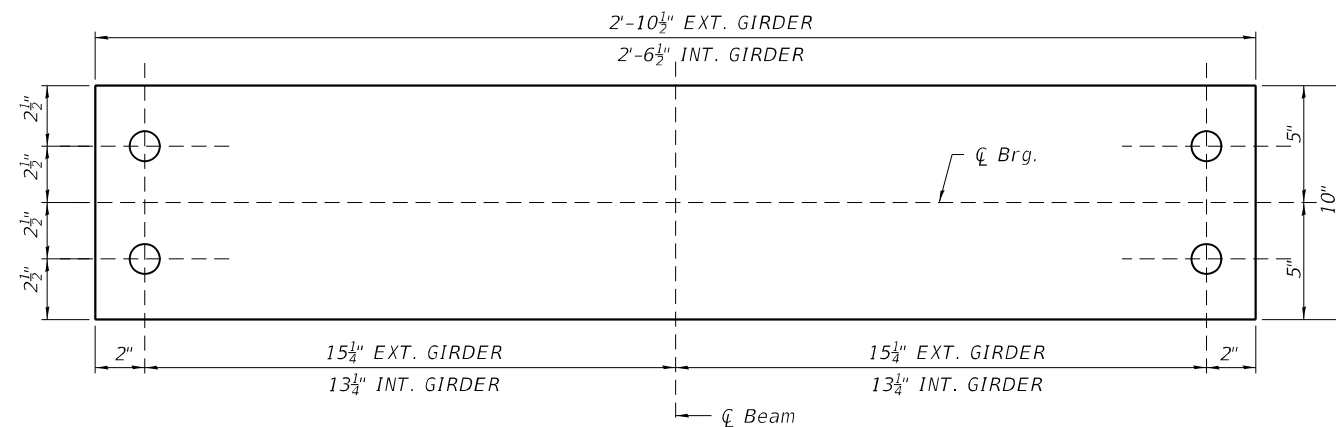
ELEVATION AT ABUTMENT



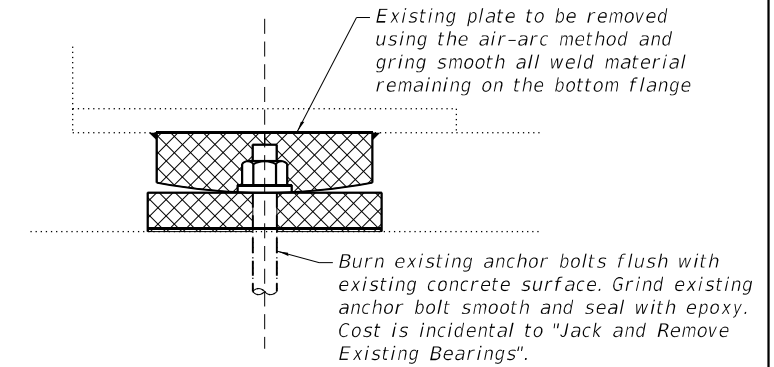
SECTION A-A



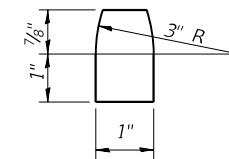
PLAN OF TOP ROCKER PLATE
(Looking from below at top rocker plate only)



PLAN OF BOTTOM PLATE



EXISTING BEARING REMOVAL DETAIL



BEAM REACTIONS (Kips)

	Ext.	Int.
RDL	29.0	24.0
RLL	38.3	27.6
IMP	11.5	8.3
R TOTAL	78.8	59.9

* Bridge closed to all traffic

Notes:

- Anchor bolts shall be installed as each member is erected unless an equivalent temporary means of lateral restraint is used.
- See sheets 15 & 16 of 21 for additional details of embedded plate (Existing).
- All plates, hardware, and leveling pads required for the bearing and anchor bolts, shall be included in the cost of Furnishing and Erecting Structural Steel.
- All plate material for bearings shall be hot dip galvanized according to AASHTO M111.
- All bolts and washers shall be galvanized according to AASHTO M232.

BILL OF MATERIAL

Item	Unit	Total
Jack and Remove Existing Bearings	Each	10
Furnish and Erecting Structural Steel	Pound	1930

FILE NAME: J:\2022\16075\CAD_Sheets\0500125-66M69-09-FixedBearingReplacement.dgn



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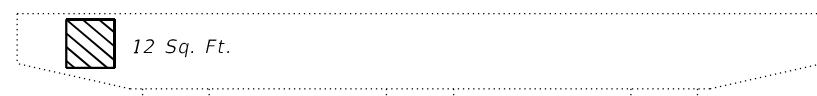
**FIXED BEARING REPLACEMENT
STRUCTURE NO. 050-0125**

SHEET 9 OF 21 SHEETS

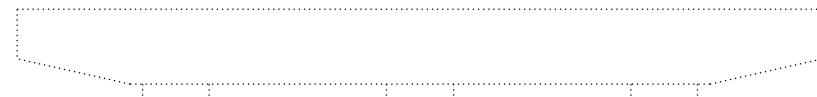
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	[(50-2)BR-10, BR-13]BRJ, BDR	LaSalle	60	52
CONTRACT NO. 66M69				
ILLINOIS FED. AID PROJECT				



Top of Pier Cap



North Elevation (Looking South)

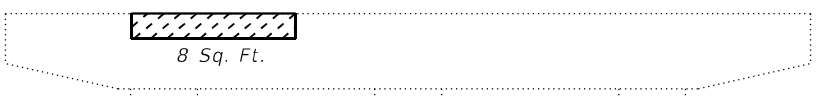


South Elevation (Looking North)

PIER 1



Top of Pier Cap



North Elevation (Looking South)

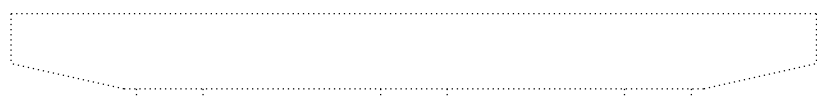


South Elevation (Looking North)

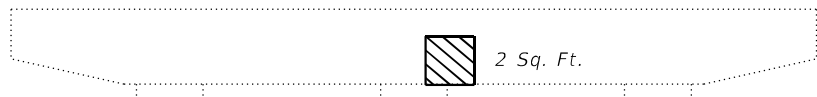
PIER 2



Top of Pier Cap



North Elevation (Looking South)



South Elevation (Looking North)

PIER 3

LEGEND

- Repair less than 5"
- Repair greater than 5"

BILL OF MATERIAL

Item	Unit	Quantity
Structural repair of concrete (Depth equal to or less than 5 inches)	Sq. Ft.	6
Structural repair of concrete (Depth greater than 5 inches)	Sq. Ft.	8

FILE NAME: J:\2022\6075\CAD_Sheets\0500125-66M69-010-PierRepairs.dgn



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**PIER REPAIRS
STRUCTURE NO. 050-0125**

SHEET 10 OF 21 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	[(60-2)BR-10, BR-13]BRJ, BDR	LaSalle	64	53
CONTRACT NO. 66M69				

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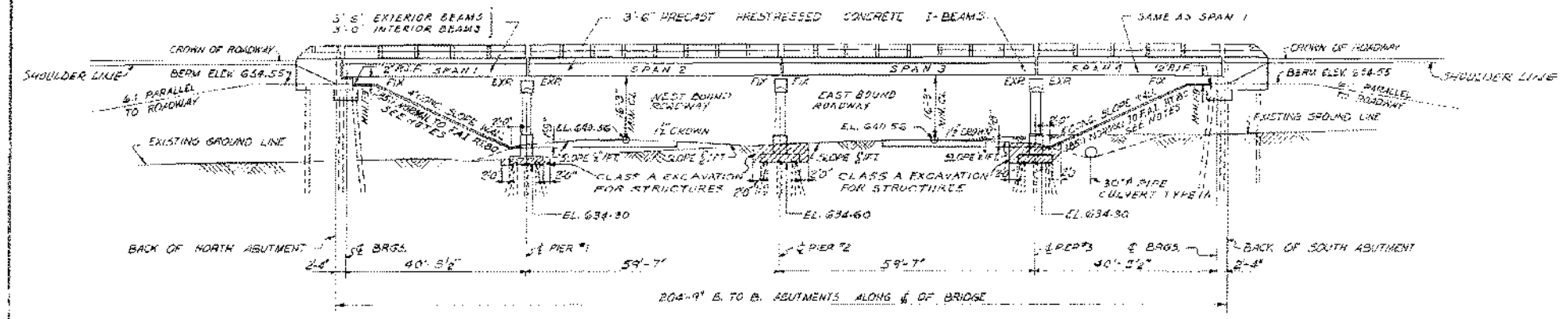
FOR INFORMATION ONLY

PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS
FAI 60	BR-10	LA SALLE	64
STA.	TO STA.		SHEET NO.
790+00	800+00		54
SHEET 11 OF 21			

B.M. #12: ELEV. 673.94
SPIKE IN HEDGE TREE, 195' LT. OF STA 790+44.

B.M. #13: ELEV. 655.09
R.R. SPIKE IN TWIN BOX ELDER, 176' LT. STA 790+64.

B.M. #14: ELEV. 615.30
R.R. SPIKE IN 40" HACKBERRY TREE, 158' LT. 816+90.



INDEX OF BRIDGE SHEETS - STATION 790+87.92

- | SHEET NO. | TITLE |
|-----------|---|
| 1 | GENERAL PLAN AND ELEVATION. |
| 2 | BORINGS, NAME PLATES, GENERAL NOTES, AND QUANTITIES. |
| 3 | DECK REINFORCEMENT PLAN. |
| 4 | DECK CROSS SECTION AND DIAPHRAGM DETAIL. |
| 5 | DETAILS OF 12 IN. PRECAST PRESTRESSED CONCRETE I-BEAMS. |
| 6 | DETAILS OF 36 IN. PRECAST PRESTRESSED CONCRETE I-BEAMS. |
| 7 | FRAMING PLAN, BEARING DETAILS, AND EXPANSION DEVICES. |
| 8 | HANDRAIL DETAILS. |
| 9 | NORTH AND SOUTH ABUTMENT AND HEADWALL DETAILS. |
| 10 | PIERS 1, 2, AND 3. |
| 11 | REINFORCEMENT BAR LISTS. |
| 12 | ABUTMENT FILES. |

NOTES:

QUANTITIES FOR HEADWALLS, EARTH EXCAVATION AND EMBANKMENT ARE INCLUDED IN QUANTITIES ON ROAD PLANS.

6 TO 1 BACKSLOPE MAY BE OMITTED IF EMBANKMENT IS CONSTRUCTED FULL LENGTH.

FOR SECTIONS A-A, B-B, C-C, AND D-D SEE DET 2.

SLOPEWALL REINFORCED WITH WELDED WIRE FABRIC 6" x 6" MESH, NO. 4 WIRE HEIGHTING APPROX 3" FROM EDGE OF SLOPEWALL AND TO TERMINATE AT TOP OF THE ELEVATIONS GIVEN ON PLAN.

FOR LOCATION OF NAME PLATES ON PIERS SEE DET 10.

HIGHWAY CLASSIFICATION
(1975) D.H.V. - TYPE - M.P.H.
II P 40

DESIGN LOAD
LL - HS-20-44
FUTURE DL - 1/2 BT WEARING SURFACE

DESIGN STRESSES

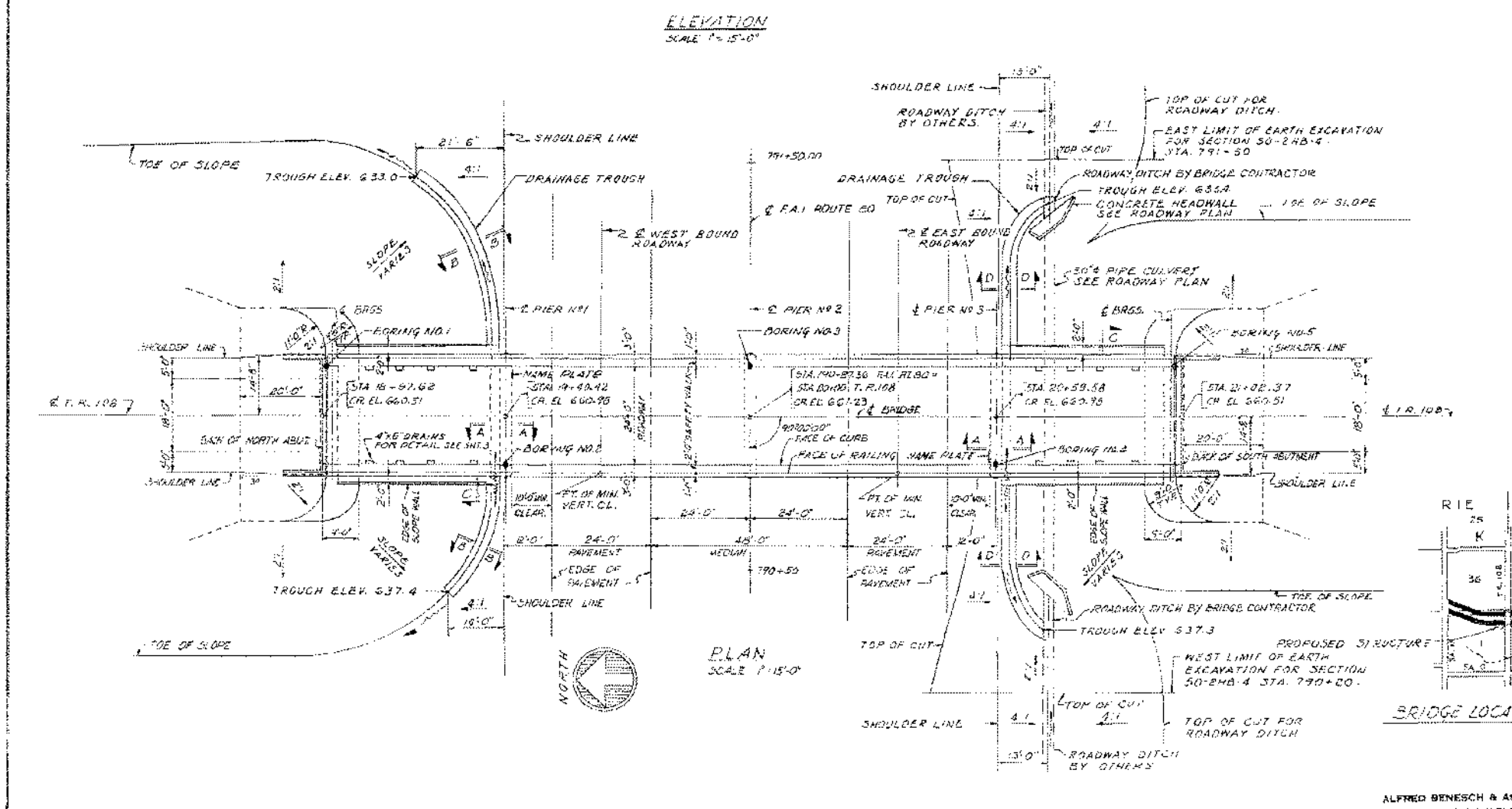
CONCRETE (CAST IN PLACE)
f_c = 3000 LBS. PER SQ. IN.
f_t = 1400 LBS. PER SQ. IN.
f_{cr} = (WITH EARTH PRESSURE) 300 LBS. PER SQ. IN.
f_{cr} = (PREP FOOTING) 75 LBS. PER SQ. IN.

PRESTRESSED CONCRETE
f_c = 3000 LBS. PER SQ. IN.
f_t = 4000 LBS. PER SQ. IN.
f_{cr} = 2000 LBS. PER SQ. IN.

REINFORCING STEEL
f_y = 20,000 LBS. PER SQ. IN.

PRETENSIONING STEEL
f_{pu} = 240,000 LBS. PER SQ. IN.
f_{ps} = 173,000 LBS. PER SQ. IN.

FILE LOADS
ABUTMENTS AND MINERALS = 50 TONS (CONCRETE).
PIERS = 20 TONS (TIMBER).



FILE NAME: J:\2022\6075\CAD_Sheets\0500125-66M69-011-REF1.dgn

ABNA
DESIGN FIRM REG. 184.002117

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	CHECKED -	REVISED -

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1961 REFERENCE PLANS
STRUCTURE NO. 050-0125

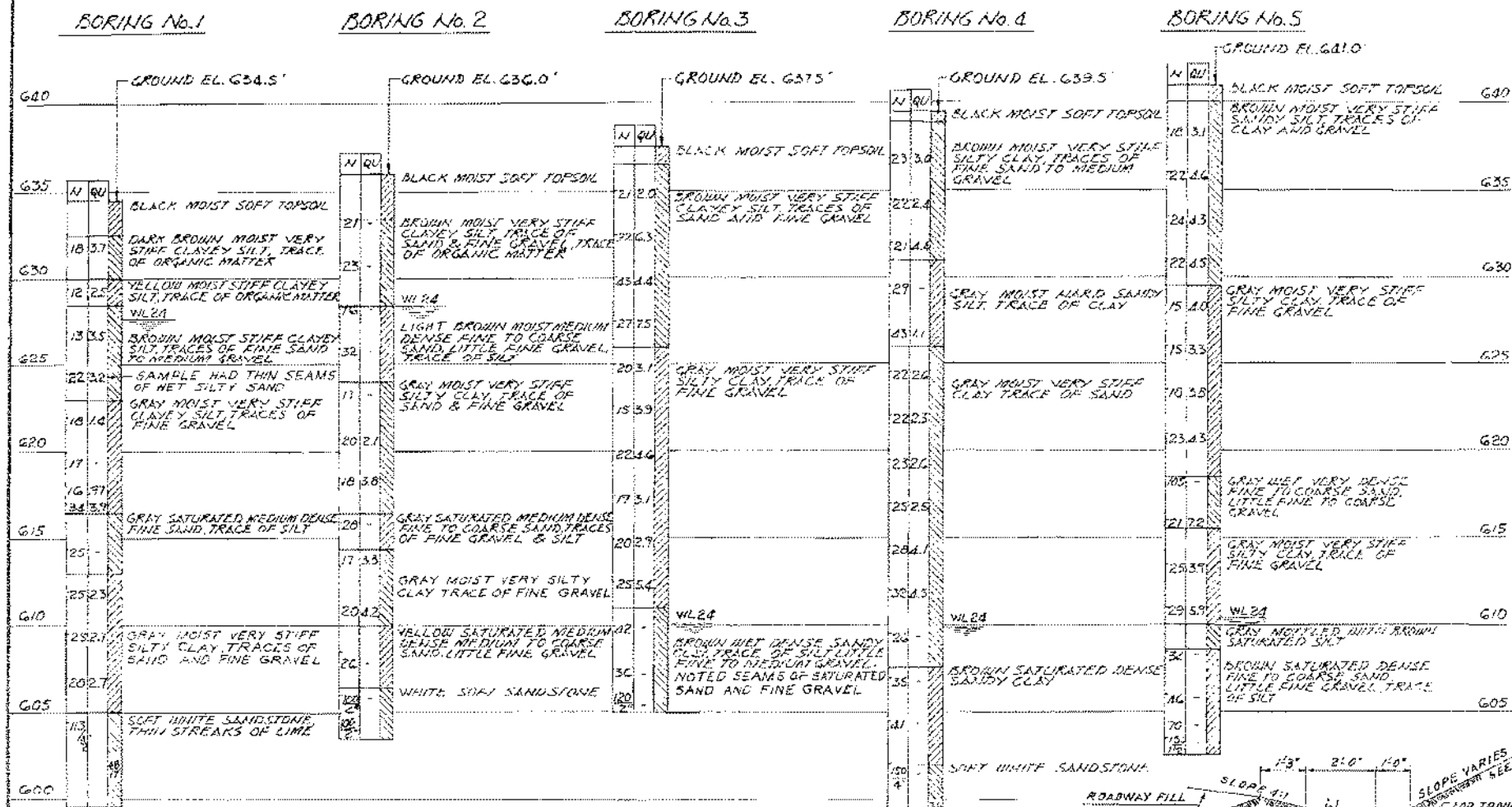
SHEET 11 OF 21 SHEETS

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	[(60-2)BR-10, BR-13]BRJ, BDR	LaSalle	64	54
CONTRACT NO. 66M69				
ILLINOIS FED. AID PROJECT				

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SOIL TEST BORINGS

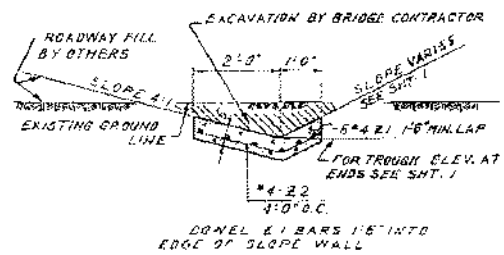
PROJECT NO.	DATE	BY	SCALE
FAI 80-50-2HB-4	LA SALLE	SE	40
DATE	BY	SCALE	
12-23-2023			



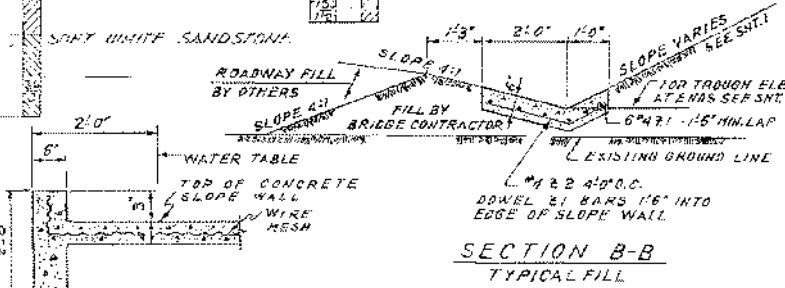
NOTE:
 FIGURES IN COLUMN MARKED "N" INDICATE NUMBER OF BLOWS REQUIRED TO DRIVE 2" O.D. SAMPLING PIPE ONE FOOT EXCEPT WHEN OTHERWISE NOTED USING 140 LBS. WEIGHT FALLING 30"
 FIGURES IN COLUMN MARKED "QU" INDICATE UNCONFINED COMPRESSIVE STRENGTH IN TONS PER SQ. FT.
 BORING DATA ARE SHOWN ONLY AS A GUIDE TO THE BIDDERS IN ESTIMATING SOIL CONDITIONS WHICH MAY BE ENCOUNTERED IN THE WORK. FOR LOCATION OF BORINGS SEE SHEET 1.
 W.L. INDICATE WATER LEVEL 24 HOURS AFTER COMPLETION OF BORING. POROSITY OF THE SOIL STRATA, VARIATION OF RAINFALL, SITE TOPOGRAPHY, ETC., MAY CAUSE CHANGES IN THESE LEVELS.
 'A' INDICATES AMOUNT OF ROCK CORED IN INCHES.
 'B' INDICATES AMOUNT OF ROCK RECOVERED.

STATION 790+87.36
 BUILT 196 BY
 STATE OF ILLINOIS
 F.A.I.R.T. 80 SEC. 50-2HB-4
 F.A. PROJ. I-80-3(32)
 LOADING H15-S12

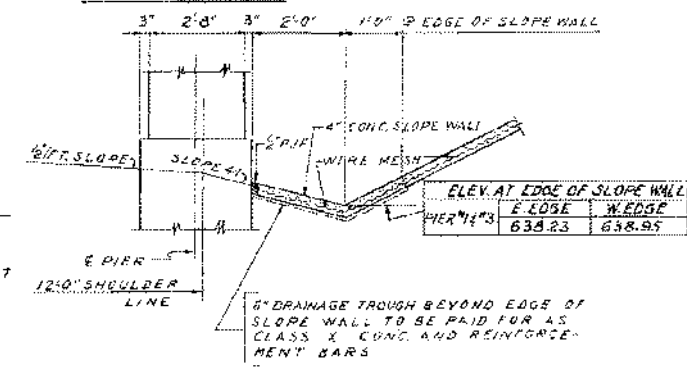
SEE STATE OF ILLINOIS STD-2H3
 NAME PLATES EACH 2
 LETTERING FOR NAME PLATES



SECTION D-D
TYPICAL CUT



SECTION B-B
TYPICAL FILL



SECTION A-A

BILL OF MATERIAL — STATION 790+87.36

ITEM	UNIT	QUANTITY	
		1-1/2" DIA.	1-1/4" DIA.
CLASS X CONCRETE	CU. YD.	199.7	235.8
REINFORCEMENT BARS	POUND	31,400	24,900
FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	9,870	9,870
FURNISHING AND ERECTING METAL HANDRAIL	LINEAL FT.	440	440
NAME PLATES	EACH	—	3
FURNISHING AND ERECTING PRECAST PRESTRESSED CONCRETE I-BEAMS 36"	LINEAL FT.	758	758
TEST PILE CONCRETE	LINEAL FT.	247	247
FURNISHING CONCRETE PILES	LINEAL FT.	—	815
DRIVING CONCRETE PILES	LINEAL FT.	—	815
CLASS A EXCAVATION FOR STRUCTURES	CU. YD.	—	120
DRIVING TIMBER PILES	LINEAL FT.	—	4260
FURNISHING CROSSTIED PILES UP TO 20 FEET	LINEAL FT.	—	758
TEST PILE TIMBER	LINEAL FT.	—	462
SLOPE WALL 4 INCH	SQ. YD.	—	318

NOTE: THESE ITEMS MARKED THUS * INCLUDE 88 CUYD. CLASS A CONCRETE AND 800 POUNDS REINFORCEMENT BARS FOR DRAINAGE TROUGH.

GENERAL NOTES

CLASS X CONCRETE SHALL BE USED THROUGHOUT EXCEPT FOR CONCRETE IN PRECAST I-BEAMS. SEE SPECIAL PROVISIONS FOR CONCRETE IN PRECAST I-BEAMS.
 COARSE AGGREGATE WHICH IS TO BE USED IN END POSTS MUST BE ABSOLUTELY FREE OF CHERT, FLINT, LIMONITE, LIGNITE AND SOFT SANDSTONE.
 ALL CONCRETE SHALL BE CAST IN PLACE EXCEPT FOR THE PRECAST PRESTRESSED CONCRETE I-BEAMS.
 THE CONCRETE FLOOR SLAB FOR EACH SPAN SHALL BE PLACED IN ONE CONTINUOUS OPERATION BETWEEN CONSTRUCTION JOINTS SHOWING AND SHALL BE FINISHED IN ACCORDANCE WITH ARTICLE 611 OF THE STANDARD SPECIFICATIONS.
 ALL STEEL SHALL BE STRUCTURAL STEEL EXCEPT AS OTHERWISE NOTED.
 BRONZE EXPANSION PLATES SHALL CONFORM TO ASTM SPECIFICATION B370, ALLOY 1 OR A.S.T.M. SPECIFICATION B22, ALLOY B, AND SHALL HAVE GRAPHITE INSERTS INSTALLED IN THE SLIDING SURFACE.
 ALL STEEL BEARING PLATES, GRAPHITE BRONZE EXPANSION PLATES, LEAD PLATES AND ANCHOR BOLTS SHALL BE FABRICATED AND SET IN ACCORDANCE WITH ARTICLE 515 OF THE STANDARD SPECIFICATIONS AND ARE INCLUDED IN QUANTITY OF STRUCTURAL STEEL. ESTIMATED WEIGHT = 4,380 POUNDS.
 STEEL EXPANSION DEVICES AT THE PIER AND ABUTMENTS SHALL BE FABRICATED AND SET IN ACCORDANCE WITH ARTICLE 515 (D) OF THE STANDARD SPECIFICATIONS AND ARE INCLUDED IN QUANTITY OF STRUCTURAL STEEL. ESTIMATED WEIGHT = 3,980 POUNDS.
 STRUCTURAL STEEL SHALL BE PAINTED GALS. SHOR COAT OF RED LEAD PAINT AND TWO COATS OF ALUMINUM PAINT IN ACCORDANCE WITH SECTION 56 OF THE STANDARD SPECIFICATIONS EXCEPT AS OTHERWISE SPECIFIED ON THE PLANS.
 THE CONTRACTOR SHALL DRIVE ONE CONCRETE TEST PILE IN A PERMANENT LOCATION AT EACH ABUTMENT AS DIRECTED BY THE ENGINEER BEFORE ORDERING THE REMAINDER OF THE CONCRETE PILES.
 THE CONTRACTOR SHALL DRIVE A TIMBER TEST PILE NEAR PIERS AND AS DIRECTED BY THE ENGINEER BEFORE ORDERING THE REMAINDER OF THE TIMBER PILES. THE LENGTH OF PILES TO BE FURNISHED FOR PIERS SHALL BE THE GREATER LENGTH DETERMINED BY THE TEST PILES FOR PIERS 75%.
 JOINTS IN DECK SLAB SHALL BE FILLED WITH JOINT SEALER CONFORMING TO FEDERAL SPECIFICATION FOR SEALER, HOT POURED TYPE, FOR JOINTS IN CONCRETE, 55-5-104.
 SHOP INSPECTION OF STRUCTURAL STEEL AND PRECAST PRESTRESSED I-BEAMS BY ILLINOIS DIVISION OF HIGHWAYS.
 CONCRETE PILES THROUGH EMBANKMENT SHALL BE DRIVEN IN PRE-CORED HOLES IN ACCORDANCE WITH SECTION 609 (C) OF STANDARD SPECIFICATIONS.

BILL OF MATERIAL DRAINAGE TROUGHS

ITEM	UNIT	TOTAL
CLASS X CONCRETE	CU. YD.	8.8
REINFORCEMENT BARS	POUND	800

BORINGS, NAME PLATES, GENERAL NOTES AND QUANTITIES GRADE SEPARATION T.H. 108 OVER FAI, ROUTE 80 F.A. PROJECT F.A.I. ROUTE 80 SECTION 50-2HB-4 LA SALLE COUNTY STATION 790+87.36

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

FILE NAME: J:\2022\16075\CAD_Sheets\0500125-66M6-012-REF2.dgn



745 McClintock Drive
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PLOT DATE =	1/26/2023	CHECKED -		REVISED -	

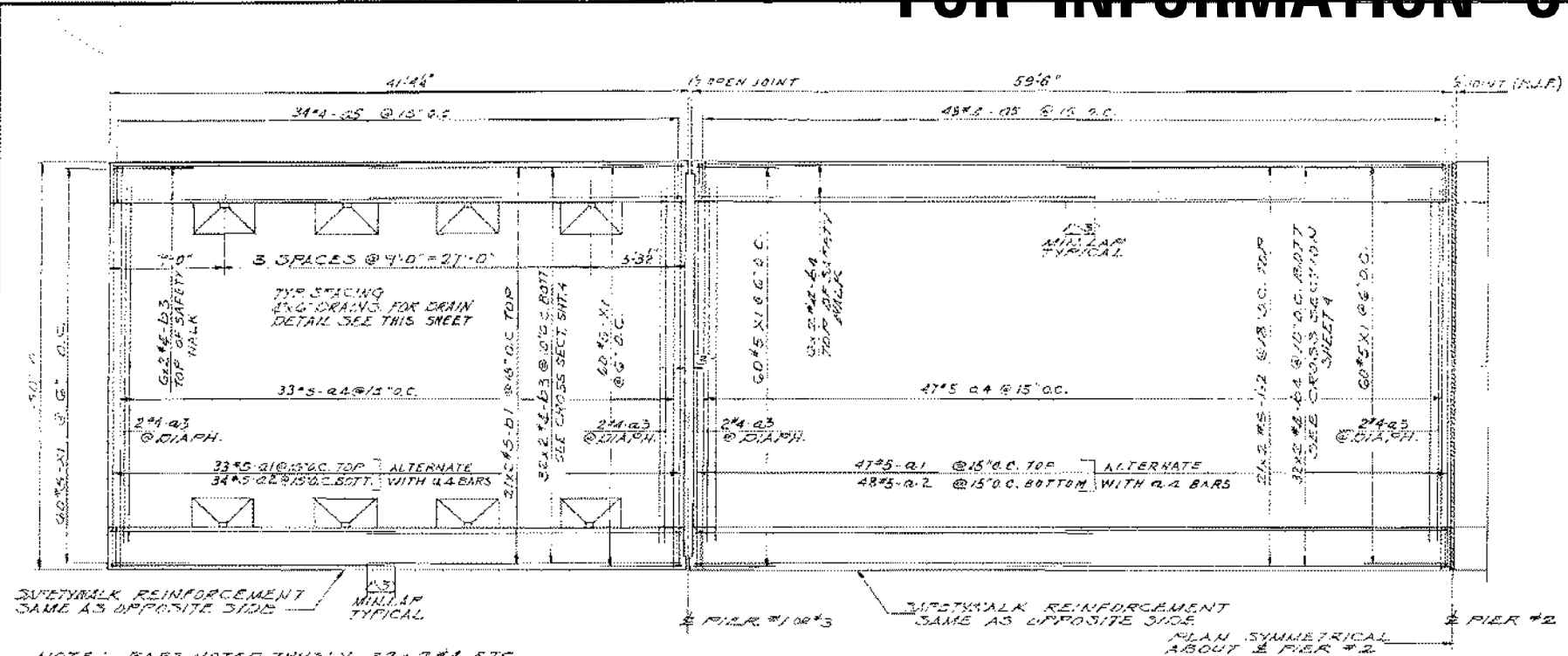
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

1961 REFERENCE PLANS
 STRUCTURE NO. 050-0125

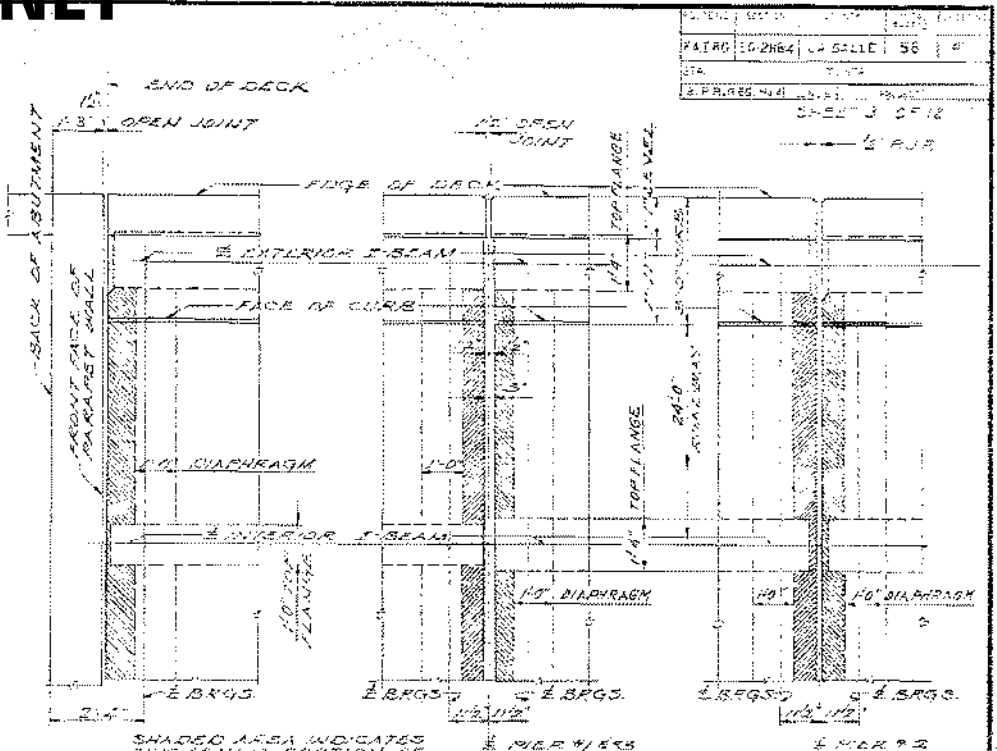
FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	[(50-2)BR-10, BR-13]BRJ, BDR	LaSalle	64	55
CONTRACT NO. 66M69				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

PROJECT NO.	DATE
PATR: 022864	SCALE: 5/8"
SHEET NO.	SHEET 13 OF 18



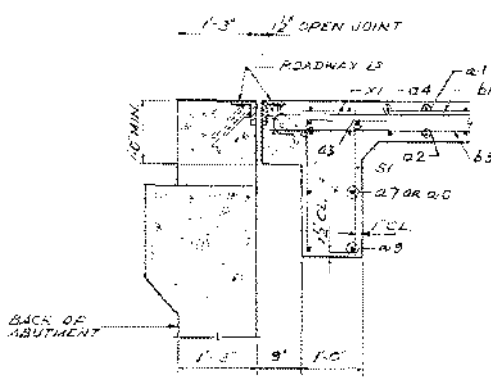
PLAN OF DECK REINFORCEMENT
SCALE: 3/8" = 1'-0"



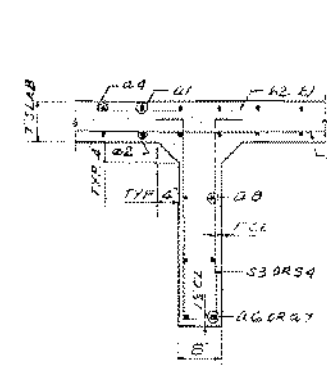
PARTIAL PLAN OF DECK
SCALE: 1/2" = 1'-0"

NOTE: BARS NOTED THUSLY 32A 2#4, ETC. INDICATE 32 LINES OF BARS WITH 2 LENGTHS OF BARS PER LINE

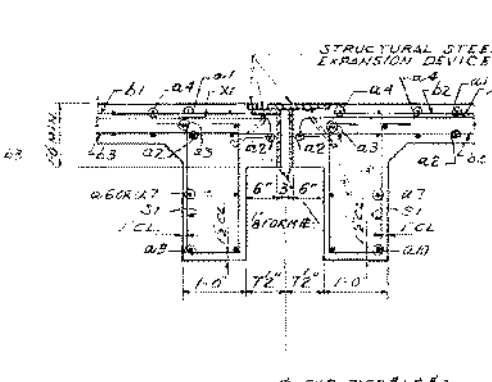
SHADED AREA INDICATES THICKENED PORTION OF DECK SLAB.



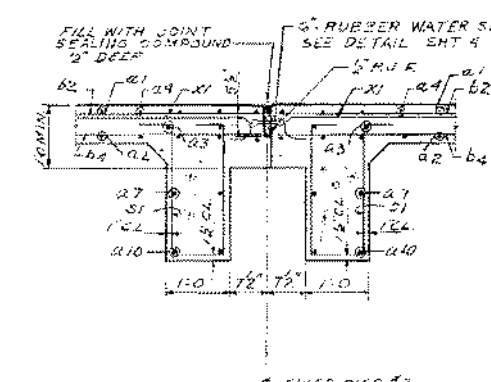
AT ABUTMENTS



AT INTERIORS

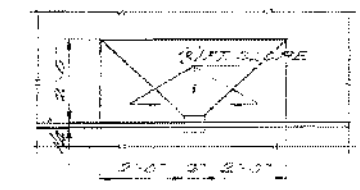


AT EXPANSION PIERS



AT FIXED PIER

TYPICAL DIAPHRAGM SECTIONS
SEE SHEETS NO. 5 & 7 FOR DIAPHRAGM LOCATIONS
SCALE: 3/4" = 1'-0"



PLAN AT DRAINS
SCALE: 3/4" = 1'-0"

BILL OF MATERIALS - SUPERSTRUCTURE

ITEM	UNIT	TOTALS
CLASS X CONCRETE	CU. YD.	193.7
REINFORCEMENT BARS	POUND	34,400
METAL HANDRAIL	LIN. FT.	440
STRUCTURAL STEEL	POUND	9,370
PRECAST PRESTRESSED CONCRETE	CS. LIN. FT.	158
I-BEAMS	36" LIN. FT.	217

DECK REINFORCEMENT PLAN
GRADE SEPARATION
T.R. 108
OVER R.T. ROUTE 80
PA PROJECT
PATR 022864 SECTION 802864
LA SALLE COUNTY
STATION 792+87.50

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

FILE NAME: J:\2022\16075\CAD_Sheets\0500125-66M69-013-REF3.dgn

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745 McClintock Drive
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Burr Ridge, IL 60527
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Fax: 773-239-3728

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PLOT DATE = 1/26/2023	DRAWN - MBJ	REVISED -
	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

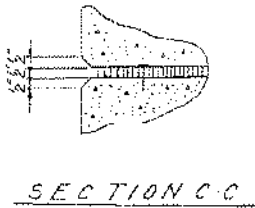
1961 REFERENCE PLANS
STRUCTURE NO. 050-0125

SHEET 13 OF 21 SHEETS

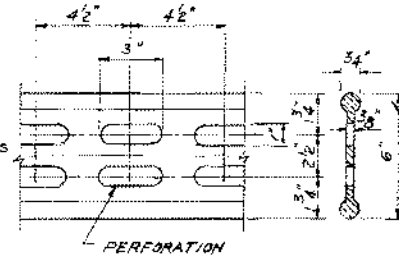
FAI. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	[(60-2)BR-10, BR-13]BRJ, BDR	LaSalle	64	56
CONTRACT NO. 66M69				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

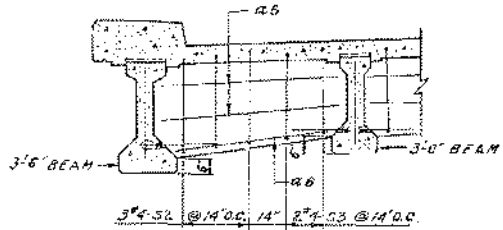
PROJECT: FA 150-02125-66M69-014-REF4.dgn
 SHEET: 4 OF 12
 DATE: 1/26/2023



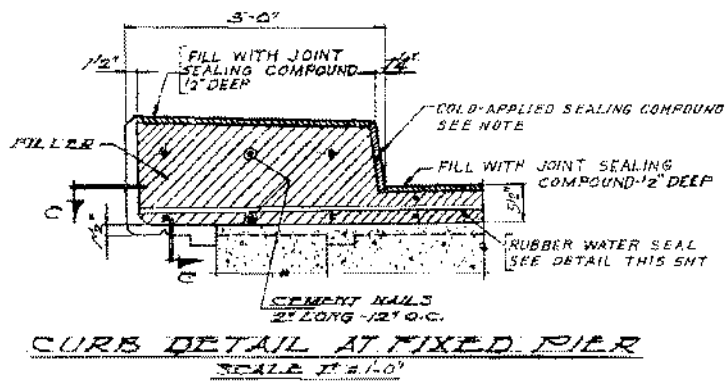
SECTION C-C



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

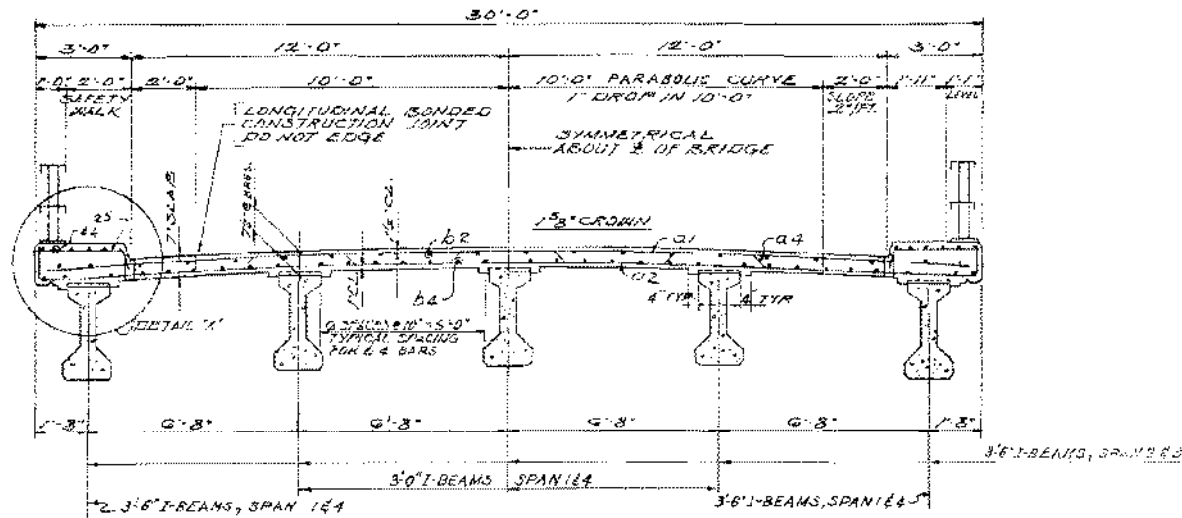


INTERIOR DIAPHRAGM DETAIL "Y" AT SPAN 1&4 ONLY

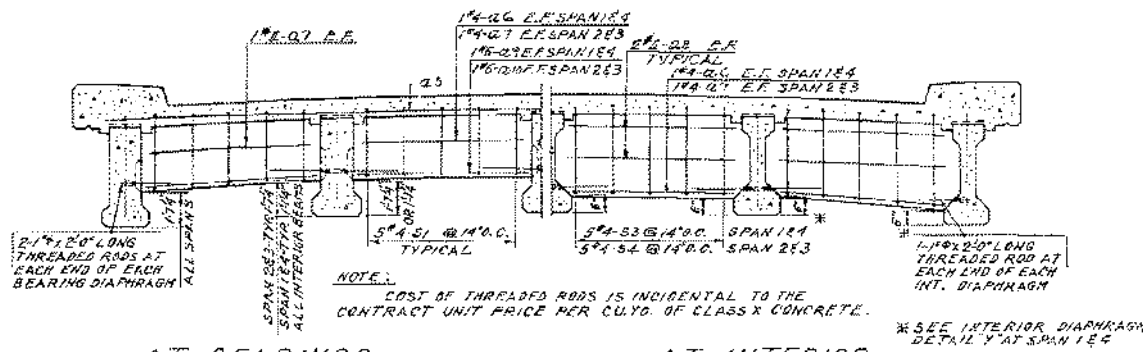


CURB DETAIL AT FIXED PIER
SCALE 1"=1'-0"

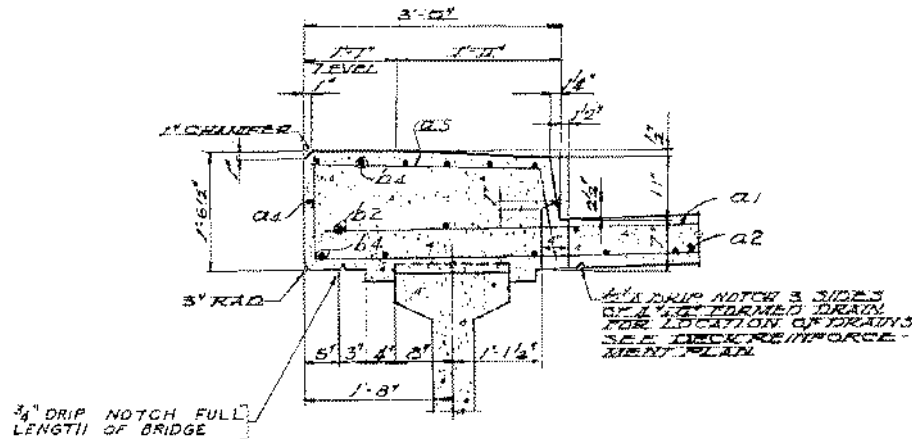
NOTE: VERTICAL JOINTS SHALL BE SEALED WITH A BLACK, COLD-APPLIED, SELF-VULCANIZING RUBBER TYPE SEALING COMPOUND THAT WILL BE WATERPROOF, NONSHRINKING, MAINTAIN BOND, AND WILL NOT COLD FLOW AFTER CURING IS COMPLETED. MATERIAL SHALL MEET THE APPROVAL OF THE ENGINEER.



TYPICAL CROSS SECTION-SPAN 2&3
SPAN 1&4 SIMILAR EXCEPT AS NOTED OR SHOWN



AT BEARINGS AT INTERIOR
TYPICAL DIAPHRAGM DETAILS-SPAN 2 & 3
SPAN 1&4 SIMILAR EXCEPT AS NOTED OR SHOWN
SCALE 3/8"=1'-0"

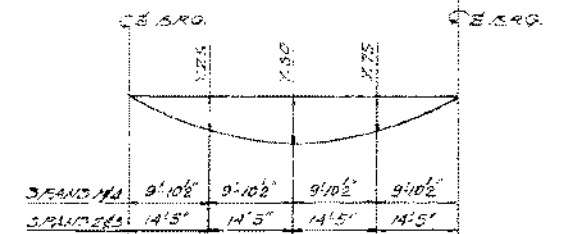


DETAIL "X" AND DRAIN DETAIL
SCALE 1"=1'-0"



STANDARD FILLET DETAIL

AFTER ALL PRECAST PRESTRESSED BEAMS HAVE BEEN ERECTED, ELEVATIONS OF THE TOP FLANGES OF THE BEAMS SHALL BE TAKEN AT INTERVALS NOT TO EXCEED 10 FT. FROM THESE ELEVATIONS SUBTRACT THE HEIGHT OF DEFLECTIONS FOR THESE POINTS DETERMINED FROM THE DEFLECTION DIAGRAM. THE ELEVATIONS SO OBTAINED SUBTRACTED ALGEBRAICALLY FROM THE THEORETICAL GRADE ELEVATIONS YIELDING THE HEIGHT OF THE SLAB ABOVE THE BEAM SURFACE. A POSITIVE VALUE IS THE FULL HEIGHT ABOVE THE TOP OF THE BEAM SURFACE. A NEGATIVE VALUE IS THE EMBEDMENT OF THE SLAB ABOVE THE THEORETICAL BOTTOM OF SLAB ELEVATION.



D.L. DEFLECTION DIAGRAMS
HEIGHT OF PRESTRESSED BEAM NOT INCLUDED

TABLE OF "Y" DIMENSIONS

BEAMS	SPANS 1&4			SPANS 2&3		
	Y.25	Y.50	Y.75	Y.25	Y.50	Y.75
EXTERIOR	8"	8"	8"	12"	11 1/2"	12"
INTERIOR	8"	3 1/2"	8"	8"	7 1/2"	7 1/2"

DECK CROSS SECTION AND DIAPHRAGM DETAILS
 GRADE SEPARATION
 T.R. 108
 OVER FAI ROUTE 80
 FAI PROJECT
 FAI ROUTE 80 SECTION 50-2125
 LA SALLE COUNTY
 STATION 780+87.56

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

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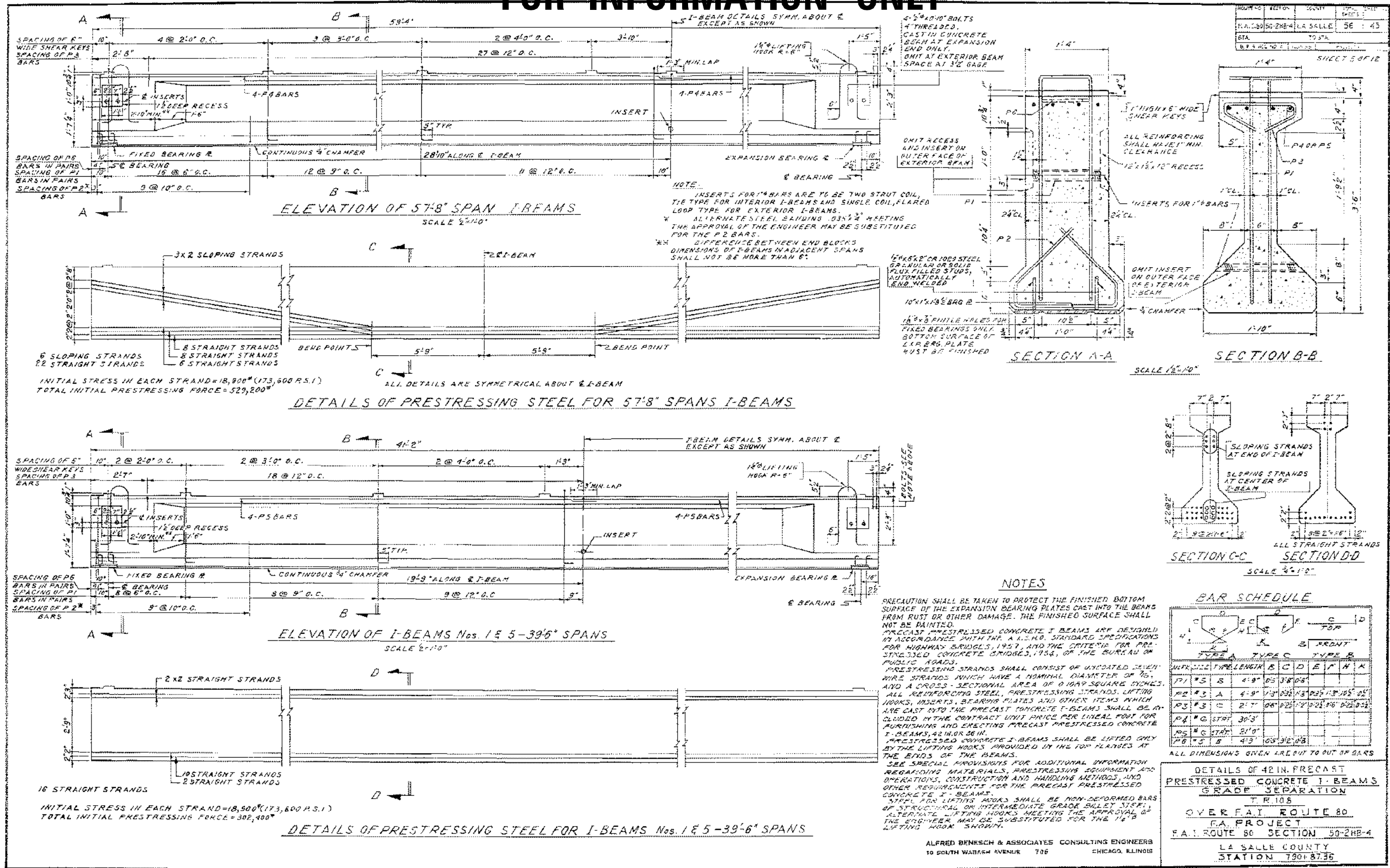
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

1961 REFERENCE PLANS
 STRUCTURE NO. 050-0125

FAI RTE. 80	SECTION [(50-2)BR-10, BR-13]BRJ, BDR	COUNTY LaSalle	TOTAL SHEETS 64	SHEET NO. 57
CONTRACT NO. 66M69				

FOR INFORMATION ONLY



PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS
LA 50-2RB-4	LA SALLE	56	43
DATE	TO	BY	
1/26/2023	1/26/2023	MBJ	

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

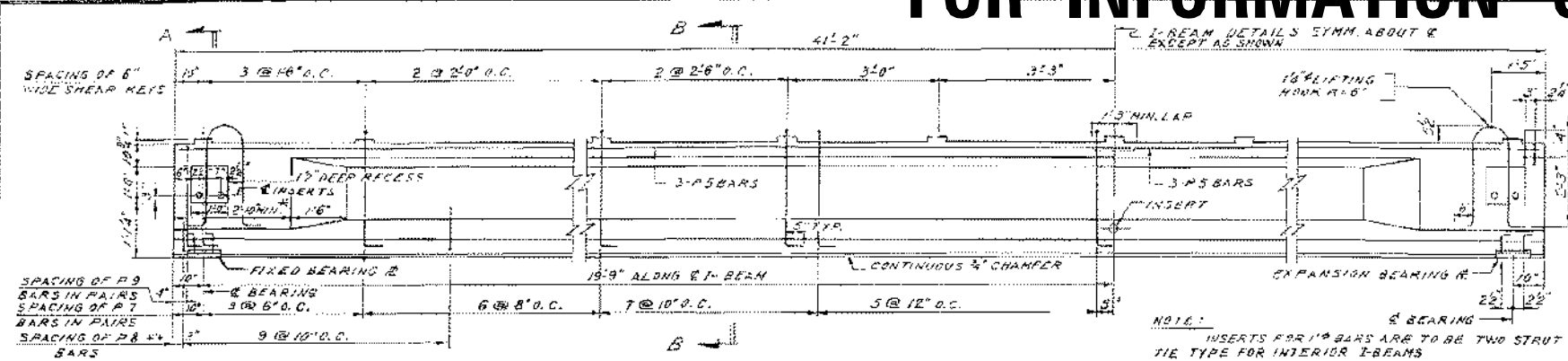
**1961 REFERENCE PLANS
STRUCTURE NO. 050-0125**

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

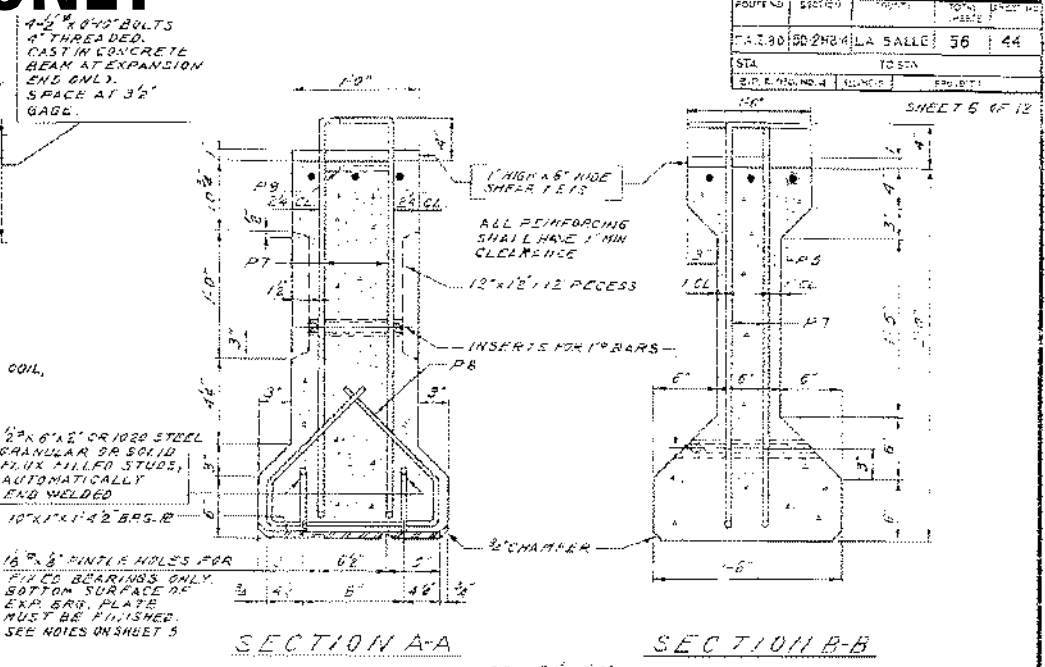
FAI. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	[(50-2)BR-10, BR-13]BRJ, BDR	LaSalle	64	58
CONTRACT NO. 66M69				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

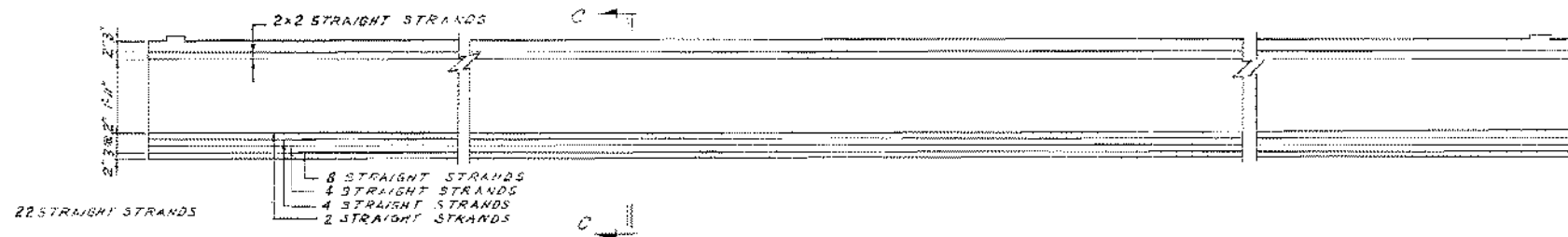
PROJECT NO.	SECTION	SHEET NO.	TOTAL SHEETS
FAI 80	50-2BR-10	56	44
STA.	TO STA.	PROJECT	
10+00	10+00	SHEET 5 OF 12	



ELEVATION OF I-BEAMS Nos 2 THROUGH 4 - 39'-6" SPANS
SCALE 1/8"=1'-0"

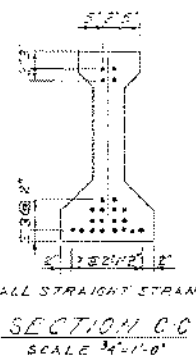


SECTION A-A SCALE 1/8"=1'-0"
SECTION B-B



DETAILS OF PRESTRESSING STEEL FOR I-BEAMS Nos. 2 THROUGH 4 - 39'-6" SPANS

INITIAL STRESS IN EACH STRAND = 18,900 (173,600 P.S.I.)
TOTAL INITIAL PRESTRESSING FORCE = 415,800



SECTION C-C SCALE 3/4"=1'-0"

BAR SCHEDULE
ALL DIMENSIONS GIVEN ARE OUT TO CUT OF BARS

MARK	SIZE	TYPE	FINISH	B	C	D	E	F	H	K
P1	#5	A	1"	0"	0"	0"	0"	0"	0"	0"
P8	#3	A	1"	0"	0"	0"	0"	0"	0"	0"
P5	#5	STR	21'8"							
P9	#5	B	3'6"	0"	0"	0"	0"	0"	0"	0"

DETAILS OF 26IN. PRECAST
PRESTRESSED CONCRETE I-BEAMS
GRADE SEPARATION
T.R.108
OVER FAI ROUTE 80
LA SALLE COUNTY
FAI ROUTE 80 SECTION 50-2BR-4
LA SALLE COUNTY
STATION 790+87.36

ALFRED BENESCH & ASSOCIATES CONSULTING ENGINEERS
19 SOUTH WABASH AVENUE 796 CHICAGO, ILLINOIS

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

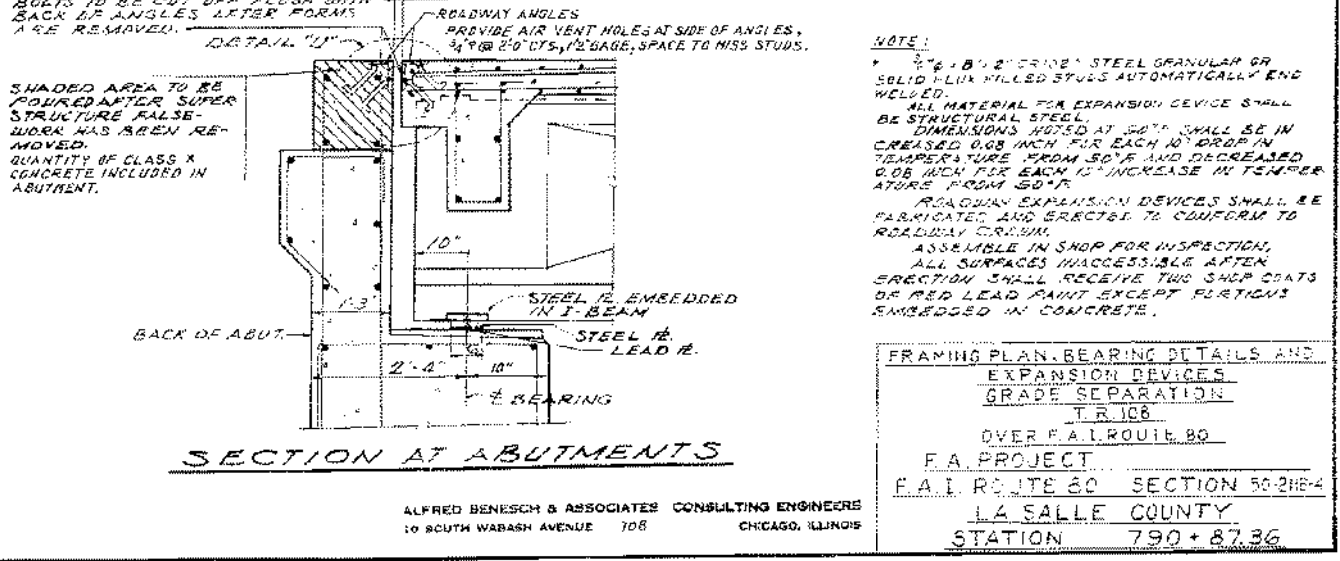
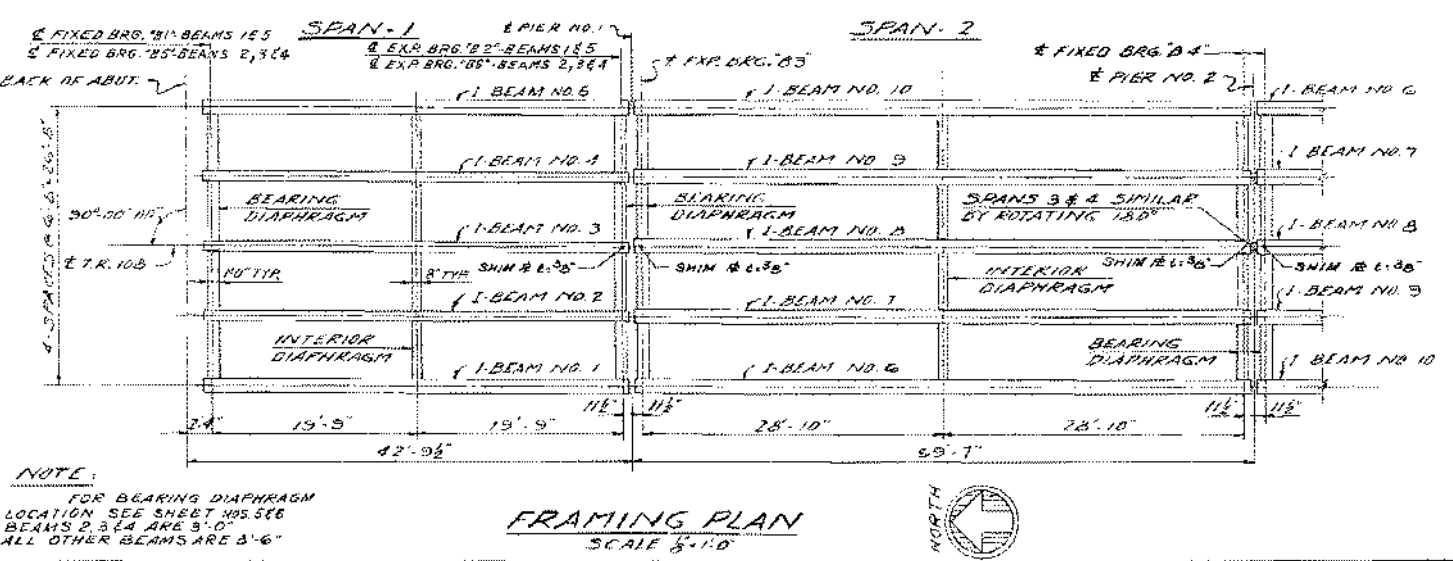
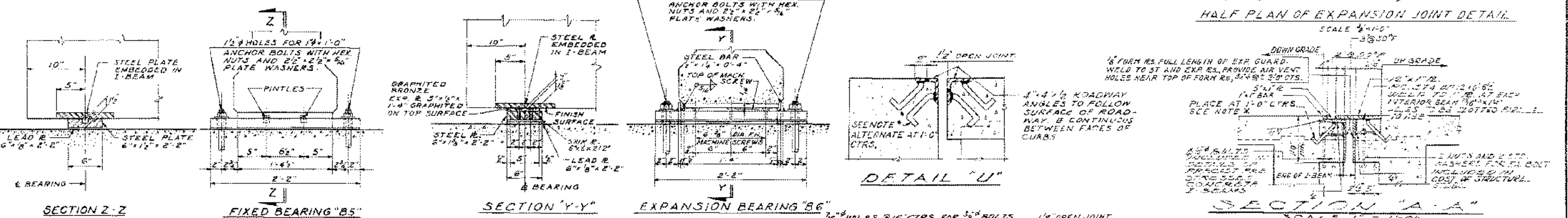
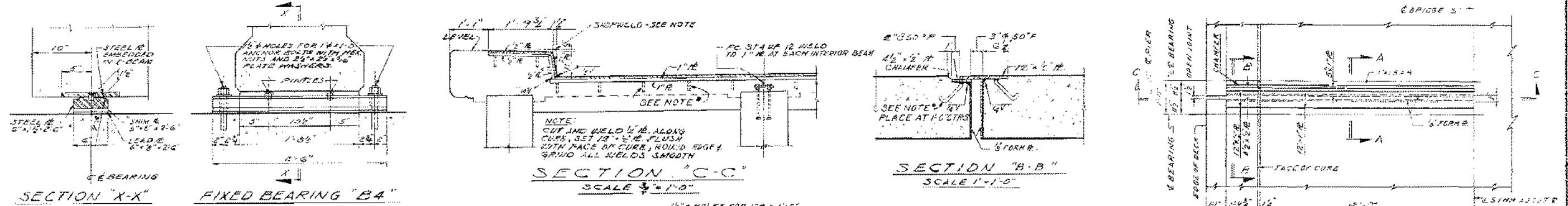
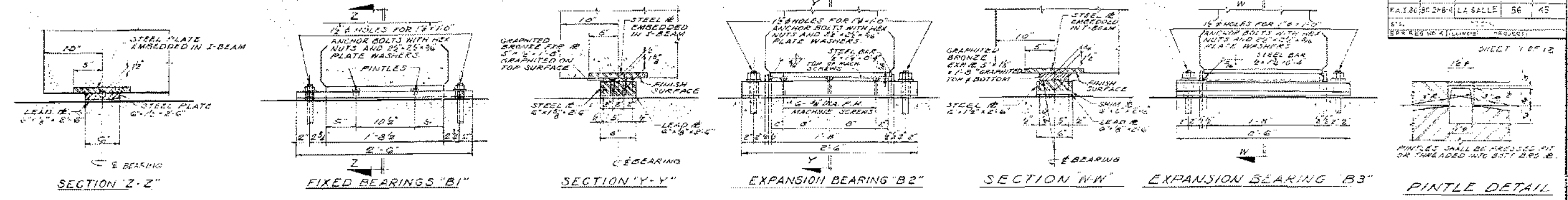
1961 REFERENCE PLANS
STRUCTURE NO. 050-0125

SHEET 16 OF 21 SHEETS

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	[(50-2)BR-10, BR-13]BRJ, BDR	LaSalle	64	59
CONTRACT NO. 66M69				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

PROJECT	LA SALLE	SHEET	56	OF	65
SHEET 1 OF 12					



FRAMING PLAN, BEARING DETAILS AND EXPANSION DEVICES GRADE SEPARATION T.R. 106 OVER F.A.I. ROUTE 80 F.A.I. PROJECT F.A.I. ROUTE 80 SECTION 50-2HE-4 LA SALLE COUNTY STATION 790+87.36

ALFRED BENESCH & ASSOCIATES CONSULTING ENGINEERS
10 SOUTH WABASH AVENUE 708 CHICAGO, ILLINOIS

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

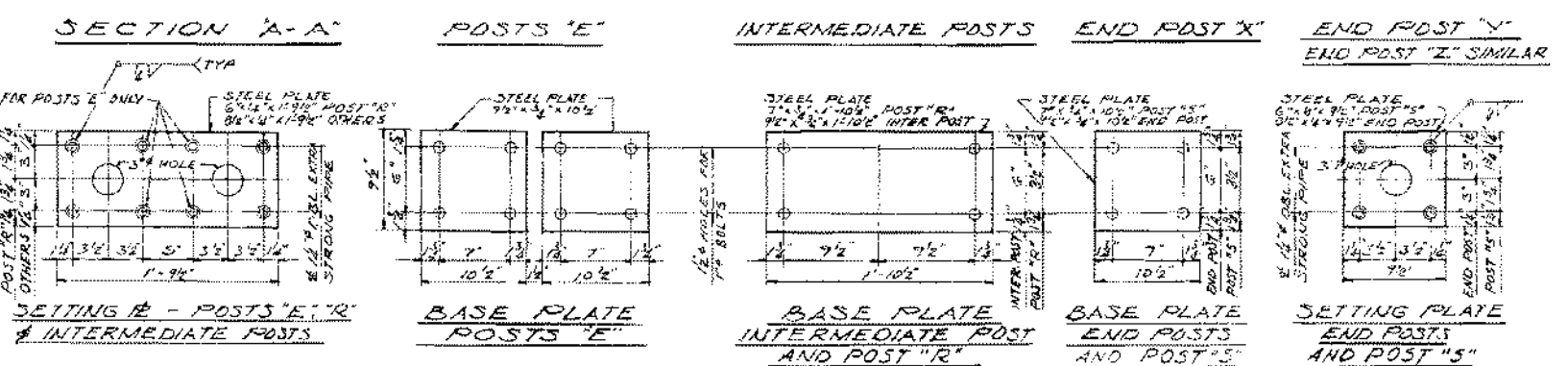
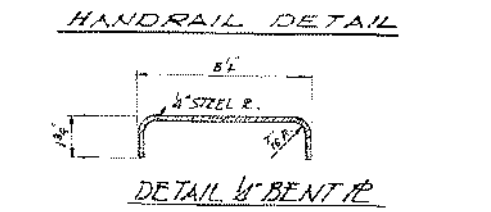
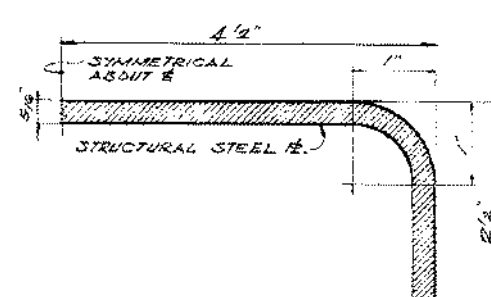
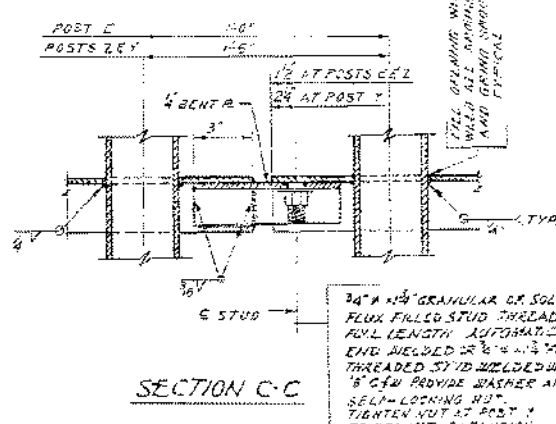
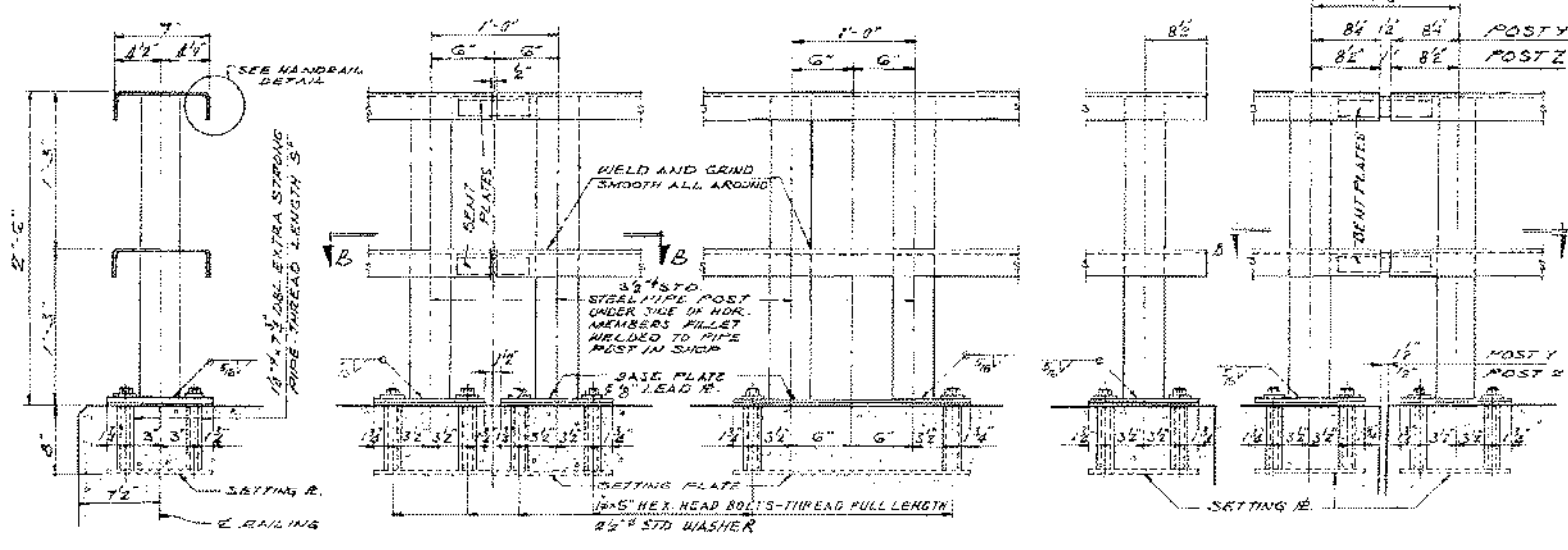
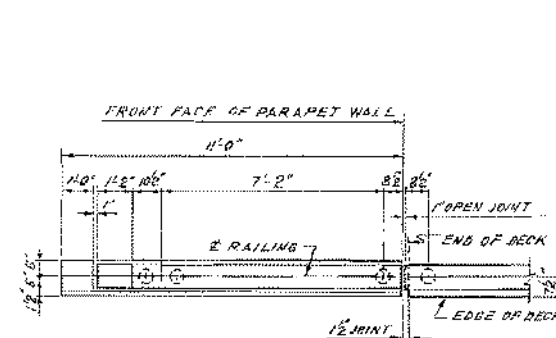
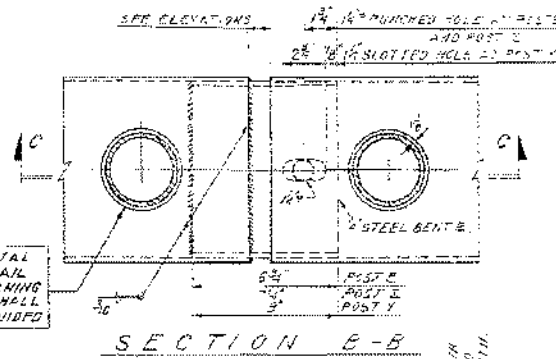
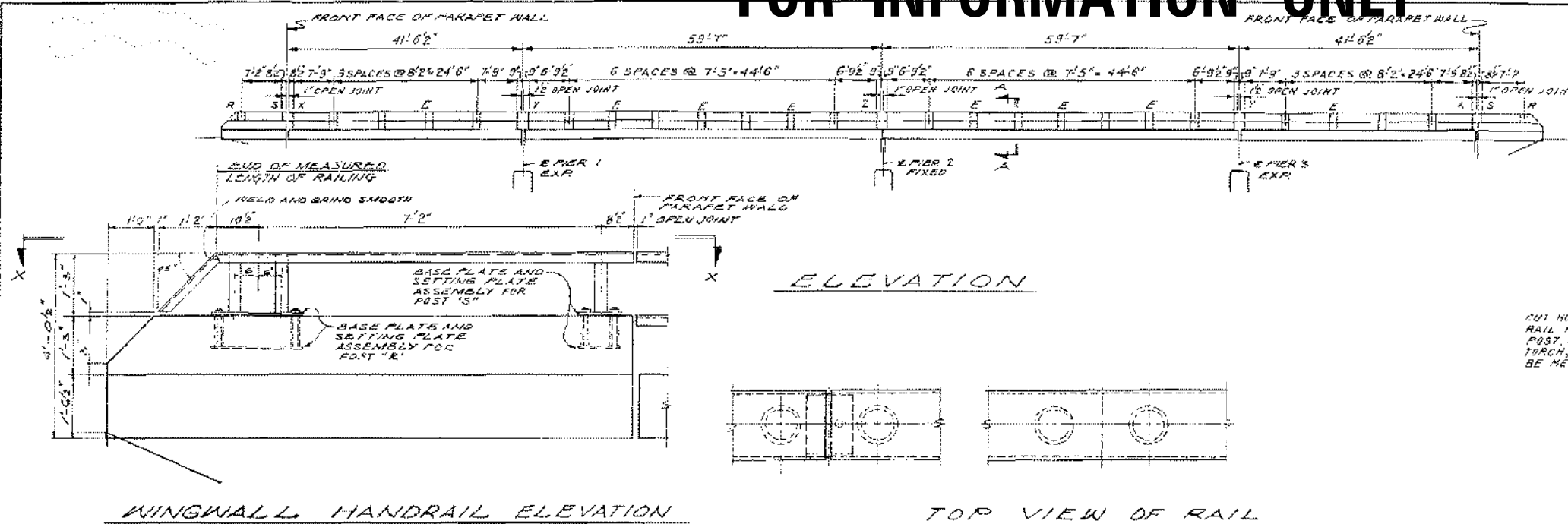
1961 REFERENCE PLANS
STRUCTURE NO. 050-0125
SHEET 17 OF 21 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	[(50-2)BR-10, BR-13]BRJ, BDR	LaSalle	64	60
CONTRACT NO. 66M69				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

PROJECT NO.	REV.	COUNTY	TOTAL SHEETS
F.A.I. 60222-105	56	LaSalle	61
DATE	TO DATE		
1/26/2023			

SHEET 8 OF 12



NOTES

RAIL SHALL BE FABRICATED AND ERECTED TO CONFORM TO PROPOSED 3D CAD DRAWING.

RAIL POSTS SHALL BE TRULY VERTICAL. WELDING OF RAIL POST TO HORIZONTAL MEMBERS AND BASE PLATES SHALL BE CONTINUOUS WELDS ALL AROUND.

RAIL POSTS SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR WELDED AND SEAMLESS STEEL PIPE 1.12M 2.53 WITH MINIMUM YIELD POINT OF 30,000 PSI.

HANDRAIL SHALL BE FINISH ONE SHOP COAT OF RED LEAD AND 2 FIELD COATS OF ALUMINUM PAINT 1.56 SPECIFICATIONS.

SHIM PLATES FOR RAIL POSTS FURNISH SHIM CONSISTING OF ONE 1/2" SHIM AND TWO 1/4" SHIMS AT 50% OF RAIL POSTS ON SURFACE WELDS AND ALL POSTS ON WINGWALLS FOR VERTICAL ALIGNMENT OF POSTS.

SIZE OF SHIM PLATES, LEAD PLATES AND SPACING OF WELDS SHALL BE SAME AS FOR BASE PLATES OF POSTS.

AFTER ERECTION ALL BOLTS AND WASHERS SHALL BE SPOT PAINTED WITH ONE COAT OF RED LEAD AND TWO COATS OF ALUMINUM PAINT.

HANDRAIL DETAILS
GRADE SEPARATION
I.R. 105
OVER ILL. ROUTE 80
F.A. PROJECT
F.A.I. ROUTE 80 SECTION 502HS-4
LA SALLE COUNTY
STATION 790+87.36

ALFRED BENESCH & ASSOCIATES CONSULTING ENGINEERS
10 SOUTH WABASH AVENUE 766 CHICAGO, ILLINOIS

FILE NAME: J:\2022\6075\CAD_Sheets\0500125-66M65-018-REF8.dgn

ABNA
DESIGN FIRM REG. 184.002117

745 McClintock Drive
Suite 210
Burr Ridge, IL 60527
Ph: 773-881-4786
Fax: 773-239-3728

USER NAME = SUSERS
DESIGNED - PD
CHECKED - SEA
PLOT SCALE = \$SCALE\$
DRAWN - MBJ
PLOT DATE = 1/26/2023

REVISIONS
REVISIONS
REVISIONS
REVISIONS
REVISIONS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

1961 REFERENCE PLANS
STRUCTURE NO. 050-0125

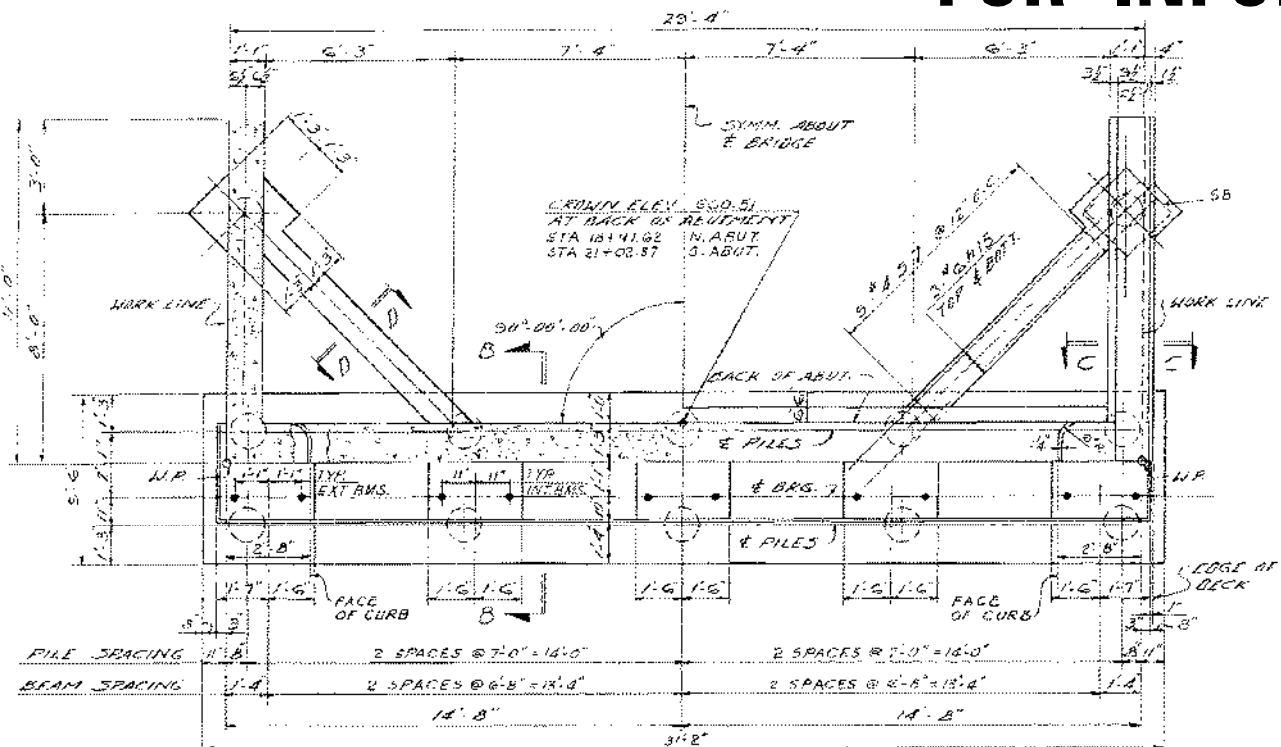
SHEET 18 OF 21 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	[(50-2)BR-10, BR-13]BRJ, BDR	LaSalle	64	61
CONTRACT NO. 66M69				
ILLINOIS FED. AID PROJECT				

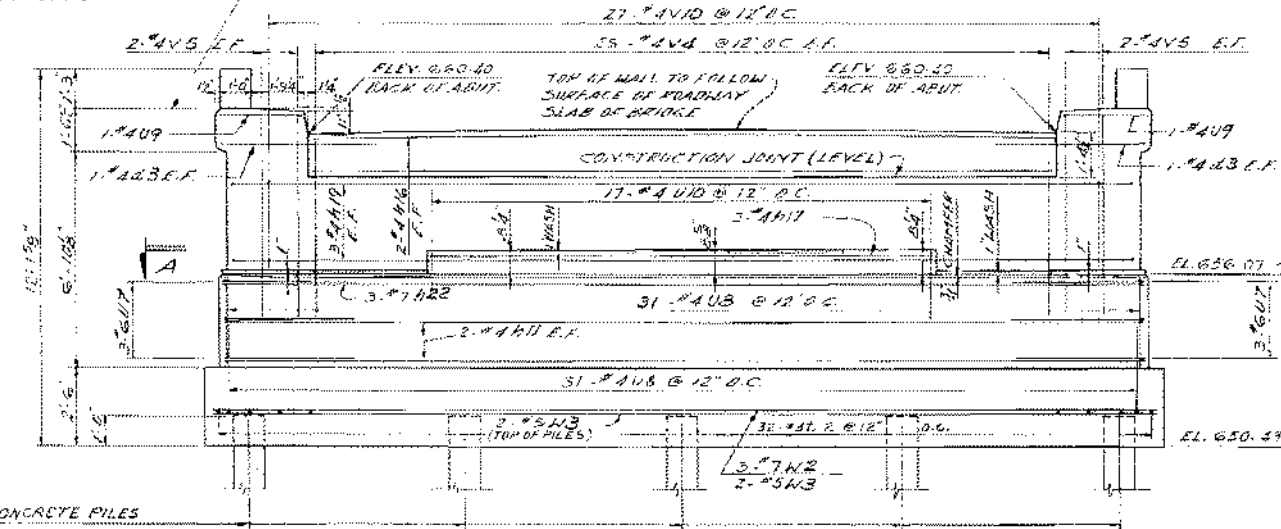
FOR INFORMATION ONLY

SHEET 20 OF 22

PROJECT NO.	LA SALLE	DATE	08-17
CONTRACT NO.	50 242 4		



HALF SECTION A SCALE 3/8"=1'-0"
HALF PLAN SCALE 3/8"=1'-0"



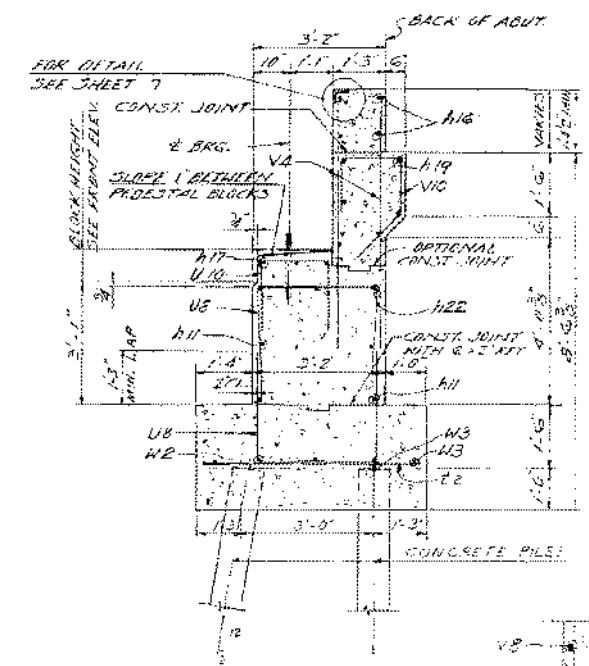
FRONT ELEVATION SCALE 3/8"=1'-0"

CONCRETE PILES
BATTER ABUTMENT PILES
FOR PILE DETAILS SEE SHEET 19.

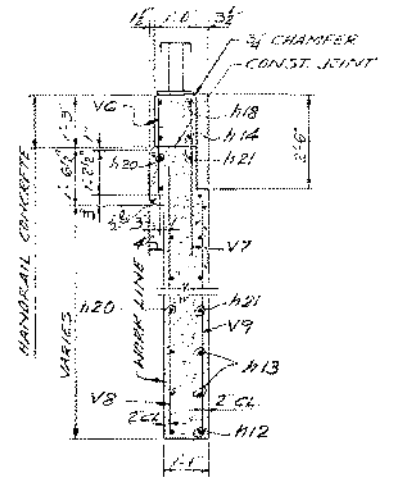
CONCRETE PILE SCHEDULE
CAPACITY 30 TONS

LOCATION	NO. OF PILES	LENGTH EA.
NORTH ABUT.	*10	41
	2	44
SOUTH ABUT.	*10	32
	2	35

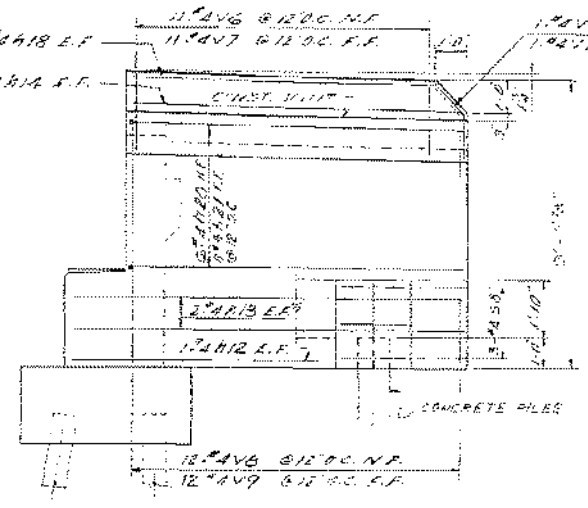
NOTE: * INCLUDES 1 TEST PILE



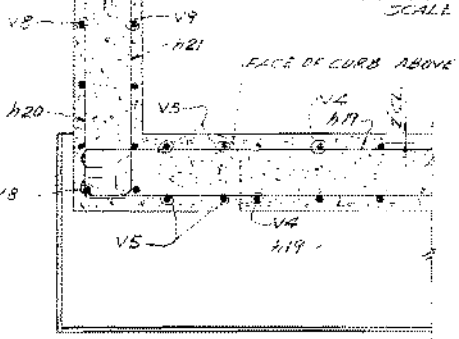
SECTION B-B SCALE 3/8"=1'-0"



SECTION C-C SCALE 3/8"=1'-0"



WINGWALL ELEVATION SCALE 3/8"=1'-0"



TYPICAL CORNER DETAIL SCALE 3/8"=1'-0"

SECTION D-D SCALE 3/8"=1'-0"

BILL OF MATERIAL FOR ABUTMENTS
WINGWALLS INCLUDED

ITEM	UNIT	QUANTITY	
		N. ABUT.	S. ABUT.
CLASS X CONCRETE	CU YD.	440	440
REINFORCEMENT BARS	POUND	2,770	2,770
CONCRETE PILES	LINE FT	457	553
TEST PILES	EACH	1	1

NOTES:
SPACE REINFORCEMENT TO CLEAR ANCHOR BELTS.
PIESTAL BLOCKS TO BE POURED MONOLITHICALLY
WITH CAP BEAM.
WALL ABOVE CONSTRUCTION JOINT TO BE POURED
AFTER THE SUPERSTRUCTURE FALSEWORK HAS
BEEN REMOVED.

NORTH AND SOUTH ABUTMENT
AND WINGWALLS DETAILS
GRADE SEPARATION
T.R. 108
OVER FAI ROUTE 80
FAI PROJECT
FAI ROUTE 80 SECTION 50 242 4
LA SALLE COUNTY
STATION 790+97.36

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

FILE NAME: J:\2022\16075\CAD_Sheets\0500125-66M69-019-REF9.dgn



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Ph: 773-881-4786
Fax: 773-239-3728

USER NAME = SUSERS	DESIGNED - PD	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED - SEA	REVISED -
PLOT DATE = 1/26/2023	DRAWN - MBJ	REVISED -
	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

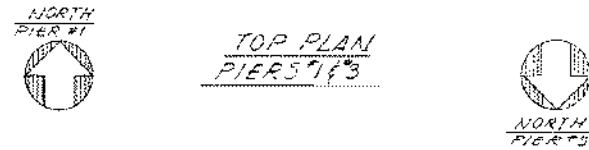
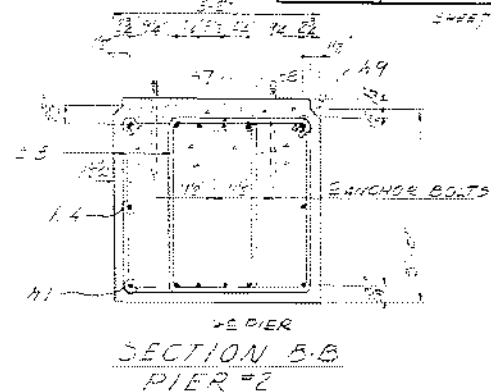
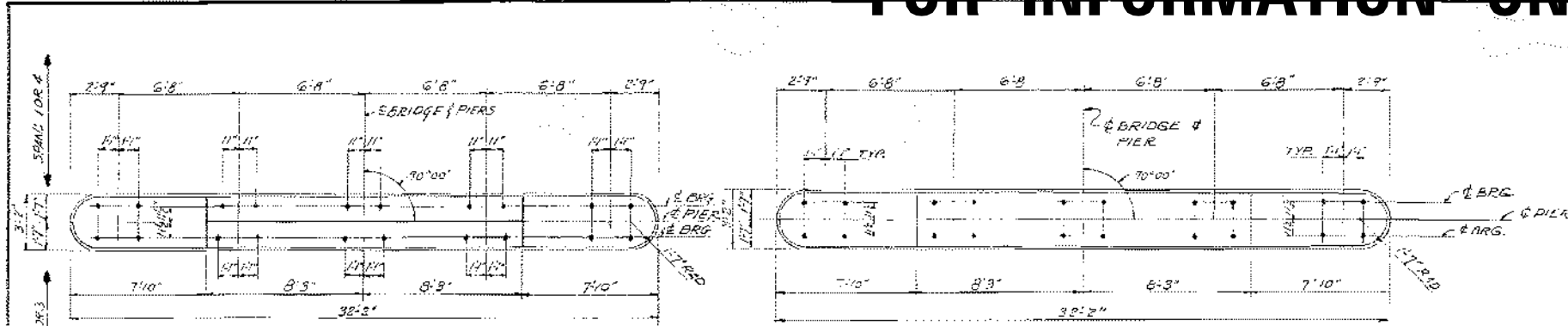
1961 REFERENCE PLANS
STRUCTURE NO. 050-0125

SHEET 19 OF 21 SHEETS

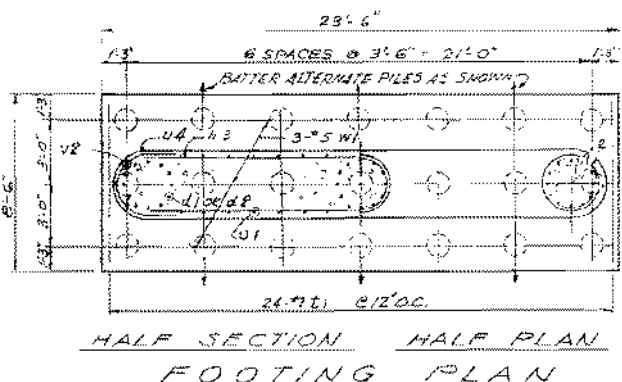
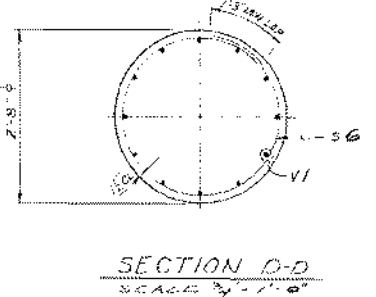
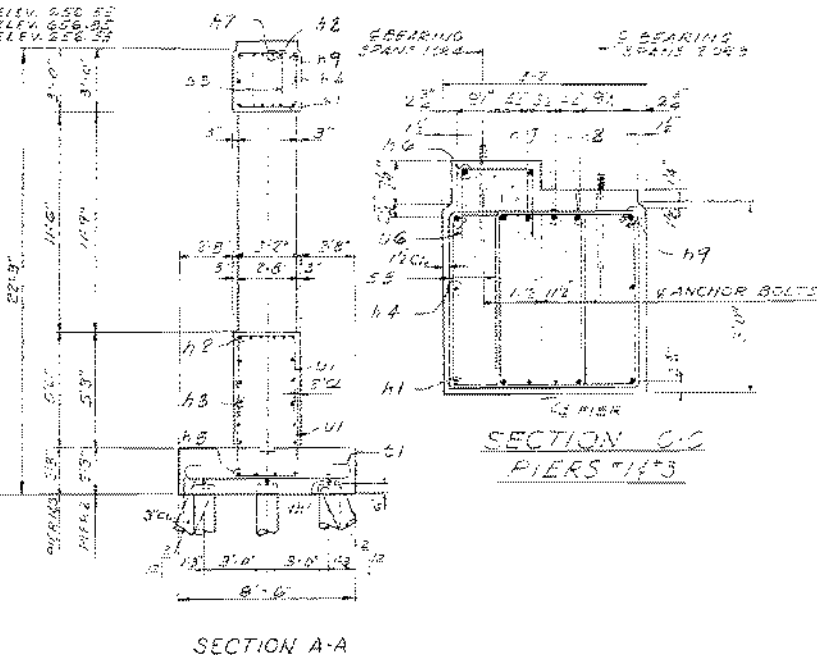
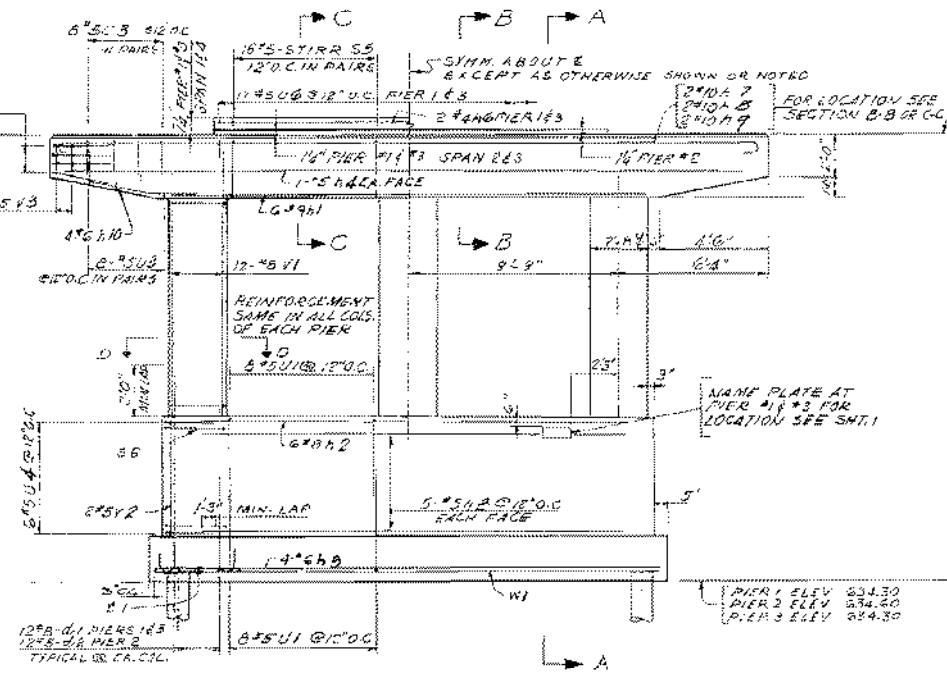
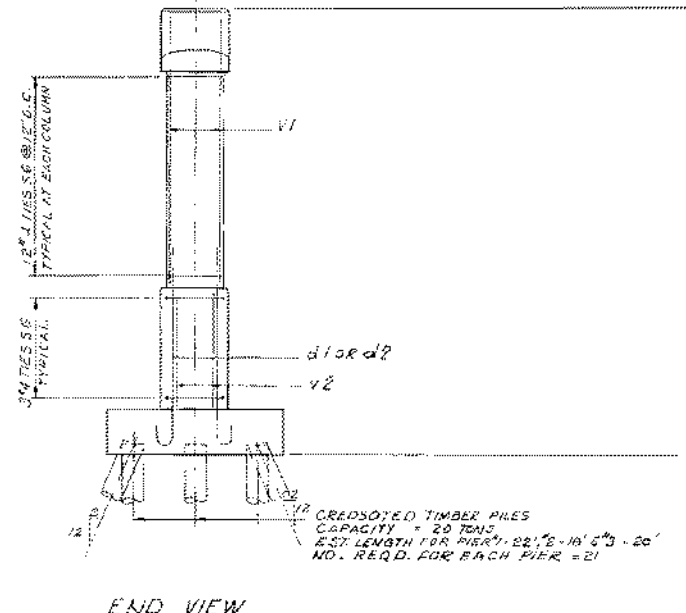
FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	[(50-2)BR-10, BR-13]BRJ, BDR	LaSalle	64	62
CONTRACT NO. 66M69				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

PROJECT	SECTION	DATE	BY
LA 56	BR 43		
STA.	TO STA.	PROJECT	
BR 43	LA 56	LA 56	



NOTE: FEDESTAL STEPS TO BE FORMED MONOLITHICALLY WITH TOP BEAM. SPACE REINFORCEMENT TO AVOID INTERFERENCE WITH DRILLING OF HOLES FOR ANCHOR BOLTS



BILL OF MATERIALS

ITEM	UNIT	PIER #1	PIER #2	PIER #3
CLASS Y CONCRETE	CY (D)	48.8	48.0	48.2
REINFORCEMENT BARS	LBMS	6,500	6,380	6,500
CLASS A ELEVATION FOR STRUCTURES	CU.YS.	24	31	25
CREOSOTED TIMBER PILES (20' TO 35')	LN.FT.	662		
CREOSOTED TIMBER PILES (UP TO 20')	LN.FT.		378	420
TEST PILES (TIMBER)	EACH	1		

PIERS 1, 2 AND 3
GRADE SEPARATION
T 2 108
OVER LA 1 ROUTE 50
LA PROJECT
LA ROUTE 50
LA 56 COUNTY
STATION 760+57.56

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

FILE NAME: J:\2022\16075\CAD_Sheets\0500125-66M69-020-REF10.dgn



745 McClintock Drive
Suite 210
Burr Ridge, IL 60527
Ph: 773-881-4786
Fax: 773-239-3728

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PLOT DATE = 1/26/2023	DRAWN - MBJ	REVISED -
	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

1961 REFERENCE PLANS
STRUCTURE NO. 050-0125
SHEET 20 OF 21 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	[(60-2)BR-10, BR-13]BRJ, BDR	LaSalle	64	63
CONTRACT NO. 66M69				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

REINFORCEMENT BAR LISTS

SHEET 21 OF 21

FAI ROUTE 80-84 LA SALLE 3E 49

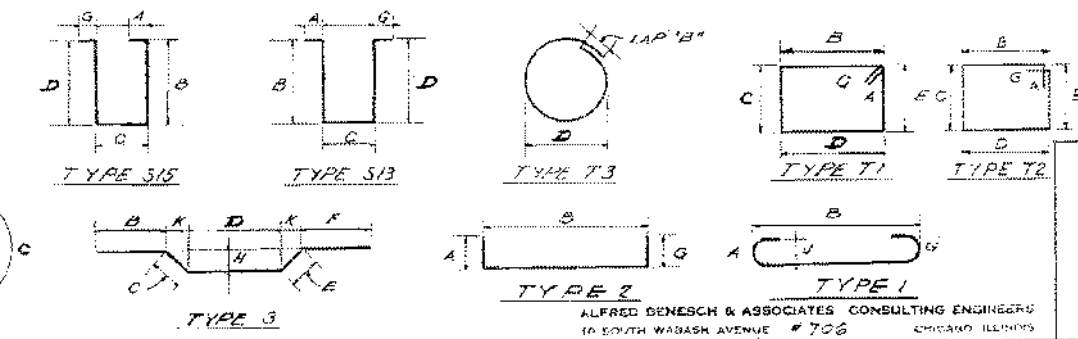
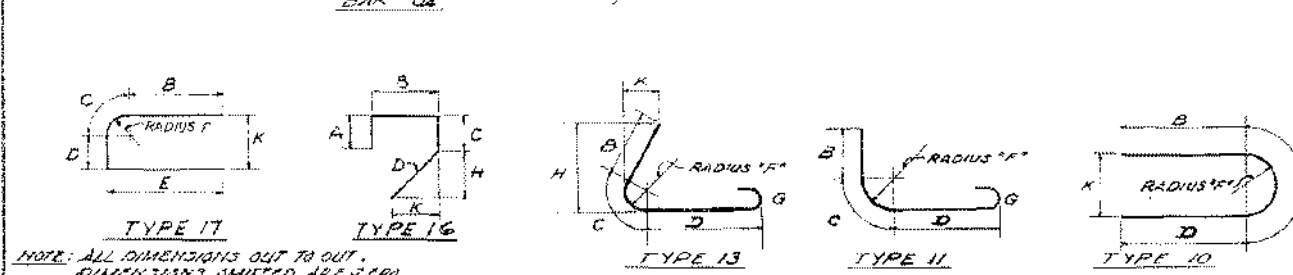
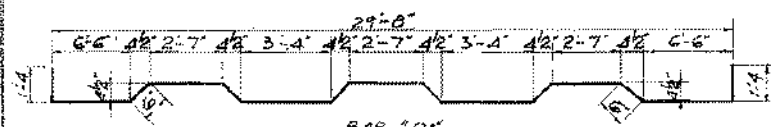
DRAINAGE TROUGH

NO REQUIRED	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	K	J
1	2	3	4											
DECK														
STRAIGHT														
16	16	16	16	16	5-3	0.9								
					5-0	0.10								
33	47	47	33	5	27-0	0.1								
32	48	48	34	5	27-6	0.2								
42	42	42	42	5	21-3	0.1								
					30-3	0.2								
4	4	4	4	4	26-9	0.3								
16	16	16	16	4	5-3	0.6								
8	24	24	8	4	5-0	0.7								
16	16	16	16	4	5-9	0.8								
88	88	88	88	4	21-3	0.3								
					30-3	0.4								
BENT														
33	47	47	33	5	33-1	0.4	SEE DETAIL BELOW							
120	120	120	120	5	4-6	1.1	7	3-11						
60	96	96	60	4	3-10	0.5	3	2-8	1-2			12	2'	
40	40	40	40	4	5-8	0.5	4	2-1	10	2-1				
6	6	6	6	4	7-1	0.5	4	2-11	6	2-11				
14	14	14	14	4	6-7	0.5	4	2-8	6	2-8				
					7-7	0.5	4	3-2	6	3-2				

NO REQUIRED	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	K	J
STRAIGHT														
6	6	6	6	19	23-0	1.1								
3	6	6	3	19	19-6	1.2								
36	36	36	36	19	13-9	1.1								
4	4	4	4	16	23-0	1.5								
10	10	10	10	16	19-6	1.3								
2	2	2	2	16	29-8	1.4								
4	4	4	4	16	5-0	1.2								
6	6	6	6	16	1-9	1.3								
3	3	3	3	16	23-0	1.1								
2	2	2	2	14	16-3	1.6								
BENT														
2	2	2	2	10	34-6	1.7	1	1-5	3-8				1-5	
2	2	2	2	10	34-2	1.8	1	1-5	3-4				1-5	
2	2	2	2	10	31-0	1.9	1	1-5	2-0				1-5	
36	36	36	36	10	10-4	1.1	1	1-1	9-3					
36	36	36	36	10	10-1	1.2	1	1-1	9-0					
24	24	24	24	10	9-8	1.1	1	1-0	8-0				10	7'
8	8	8	8	10	4-6	1.10	3			3-0	1-6		4	1-5
8	8	8	8	10	7-5	1.0				1-6	4-5	1-6	1-5	2-10
32	32	32	32	10	10-10	1.5	7	6	2-2	2-9	2-2	2-9	6	
32	32	32	32	10	11-2	1.7	2	4-2	2-10				4-2	
32	32	32	32	10	6-2	1.5	2	2-0	2-2				2-0	
12	12	12	12	10	6-11	1.4	10			1-3	4-5	1-3	1-5	2-10
17	17	17	17	10	5-2	1.6	2	2-0	1-2				2-0	
45	45	45	45	10	4-0	1.3				1-5	2-5			

NO REQUIRED	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	K	J
STRAIGHT														
3	3	3	3	7	27-6	1.22								
3	3	3	3	7	30-0	1.12								
12	12	12	12	6	13-0	1.15								
4	4	4	4	5	30-8	1.03								
4	4	4	4	4	8-3	1.03								
4	4	4	4	4	29-6	1.11								
4	4	4	4	4	9-0	1.12								
8	8	8	8	4	12-6	1.13								
4	4	4	4	4	11-6	1.14								
4	4	4	4	4	23-6	1.16								
3	3	3	3	4	16-0	1.17								
50	50	50	50	4	6-0	1.4								
8	8	8	8	4	7-0	1.5								
22	22	22	22	4	2-6	1.6								
22	22	22	22	4	3-9	1.7								
24	24	24	24	4	8-0	1.8								
24	24	24	24	4	6-9	1.9								
32	32	32	32	4	5-0	1.2								
BENT														
6	6	6	6	11-9	1.7	2	1-6	2-9					2-6	
4	4	4	4	11-0	1.18	5	7-7	1-5					1-0	1-0
6	6	6	6	11-9	1.19	1	6	2-9					6	2
12	12	12	12	11-9	1.20	1	5	10-6						
12	12	12	12	11-0	1.21	1	6	10-6						
16	16	16	16	11-0	1.22	1	5	8-1	1-6	5	1-6		5	
62	62	62	62	11-0	1.23	2	2-9	2-0					2-9	
2	2	2	2	11-0	1.24	1	2-2	6	7	2-6	4			11
17	17	17	17	11-0	1.25	2	2-0	1-6					2-0	
27	27	27	27	11-0	1.26	1	7-3	1-5	1-3	1-7			1-10	1-10
2	2	2	2	11-0	1.27	1	1-5	1-2					10	10
2	2	2	2	11-0	1.28	1	7-8	1-2					10	10
6	6	6	6	11-0	1.29	1	2-0	2-0	2-0	2-0			6	

NO REQUIRED	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	K	J
STRAIGHT														
54	54	54	54	20	2-1									
BENT														
42	42	42	42	2-0	2-2	1.0							2-2	7'



BAR REINFORCEMENT LISTS
GRADE SEPARATION
T.R.108
OVER FAI ROUTE 80
FAI PROJECT
FAI ROUTE 80 SECTION 50-10-8
LA SALLE COUNTY
STATION 790+87.35

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

1961 REFERENCE PLANS
STRUCTURE NO. 050-0125

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	[(50-2)BR-10, BR-13]BRJ, BDR	LaSalle	64	64
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ILLINOIS FED. AID PROJECT				