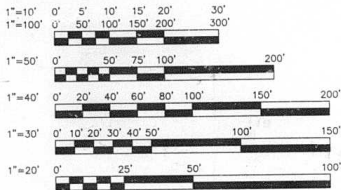


BRIDGE SECTIONS

MISSISSIPPI RIVER BRIDGE SEC. 60 B-1-3 (S.N. 060-0035)
CHAIN OF ROCKS CANAL BRIDGE SEC. 60-1B-1-3 (S.N. 060-0036)
IL RTE. 3 SEC. 60-2HBY (S.N. 060-0038)
ST. THOMAS RD./R.R. SEC. 60-2VHBY (S.N. 060-0040)
IL RTE. 203/OLD ALTON RD./R.R. SEC. 60-3VHBY (S.N. 060-0042)
ENGINEER RD./R.R. SEC. 60-3VBY (S.N. 060-0044)
IL RTE. 111 SEC. 60-3HBY-1 (S.N. 060-0046)



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.

SEE SHEET #2 FOR INDEX OF SHEETS, GENERAL NOTES, & STANDARDS.

JOINT UTILITY LOCATING INFORMATION FOR EXCAVATIONS PHONE: 800-892-0123

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLANS FOR PROPOSED
FEDERAL AID HIGHWAY

SCALE IN FEET



F.A.I. 270

(EASTBOUND)

SECTION 60 B-I-3, 60-1B-I-3, 60-(2HBY, 2VHBY, 3VHBY, 3VBY, 3HBY-1) & 60-(1, 2, 3) RS-1, 60-2HB-HDF, 60-3HB-1-HDF-1
PROJECT ACIM-ACBHI-270-6 (92)0

MADISON COUNTY (IL.) & ST. LOUIS COUNTY (MO.)

BRIDGE REHABILITATION, PAVEMENT PATCHING AND RESURFACING
C-98-057-95

Table with columns: DIST. NO., SEC., COUNTY, DIST. NO., SHEET NO. and rows for project details.

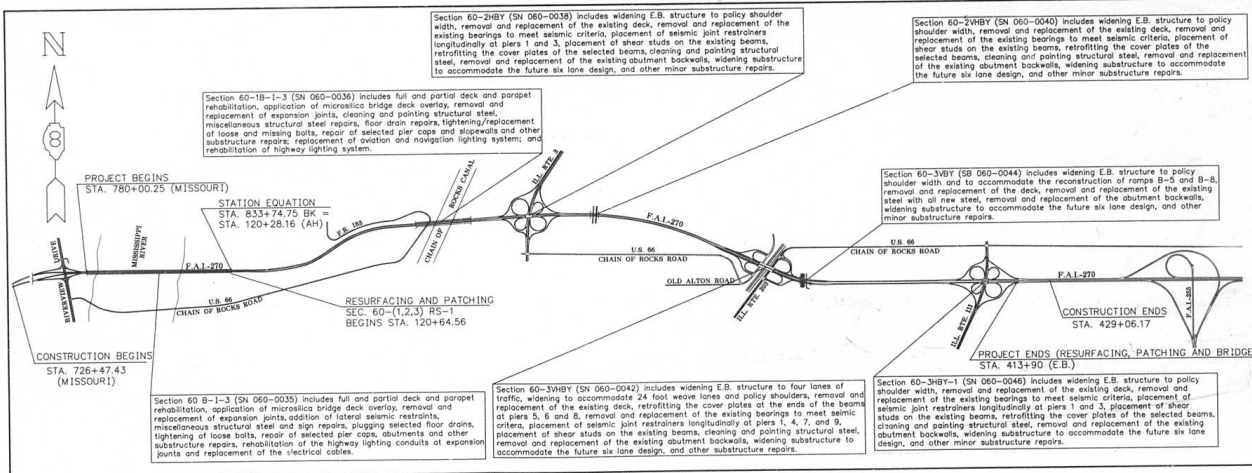
* 60 B-1-3, 60-1B-1-3, 60-(2HBY, 2VHBY, 3VHBY, 3VBY, 3HBY-1), 60-(1, 2, 3) RS-1 AND 60-2HB-HDF, 60-3HB-1-HDF-1

D-98-089-93, D-98-137-93, D-98-055-94

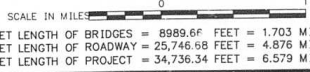


MICROFILMED
REEL NUMBER
AWARDED
RESIDENT ENGINEER
AS BUILT CHANGES MADE
ON THE FOLLOWING SHEETS
E.B. DESIGN DESIGNATION
TRAFFIC DATA
CURRENT ADT (95) = 46,156 (EB+W)
MU = 15.6%
SU = 2.9%

PREPARED BY:



LOCATION MAP



PROJECT ENGINEER: WILLIAM A. BOE, PHONE NO. 618-346-3779
DRAWN BY: ANDREW R. RAJANIGANTI, PHONE NO. 618-346-3186

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
SUBMITTED August 3, 1995
DESIGNED BY: Dale Klehr
PROJECT: September 8, 1995
CHECKED BY: Gary Sandell
APPROVED: September 8, 1995
DIRECTOR OF HIGHWAYS

EXISTING CONDITIONS:
 * 608-1-3, 60-1B-1-3, 60-1BHY, 2V8BY, 3V8BY, 3VBT, 3VBT-IL, 60-1L2, 3V8-1, 60-2HB-HDF & 60-3HB-1-HDF-1

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* INCLUDES SHEETS 88A&B		

STANDARDS

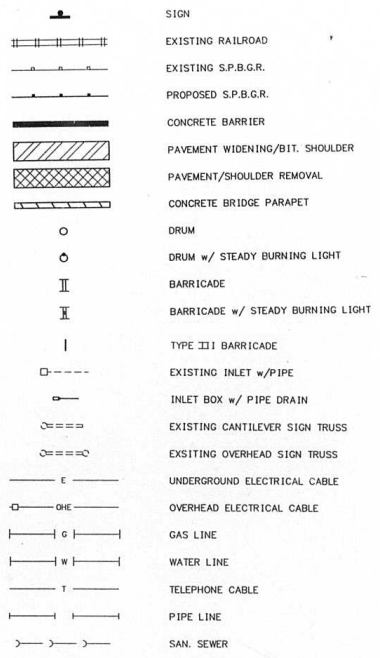
1507-10	
1633-5	
1686-5	
2113-4	
2149-12	
2213-6	
2217-4	
2268-12	
2269-10	
2268-5	
2230-18	
2239-9	
2240-6	
2256-12	
2262-6	
2268-12	
2301-5	
2302-9	
2303-10	
2303-10	
2305-9	
2307-10	
2313-6	
2314-9	
2315-11	
2316-16	
2319-6	
2320-5	
2323-14	
2327-12	
2333-5	
2336-5	
2337-3	
2339-4	
2340-6	
2341-9	
2349-1	
2350-4	
2354-2	
2359-4	
2362-4	
2368-2	
2378-5	
2381-2	
2383-4	
2384-2	
2385-1	
2387-1	
2389-2	
2396-1	
2397-2	
2401	
2402	
2408-1	
2419-2	
2426-4	
2427-2	
2430-1	
2442-3	
2443-3	
2452	

GENERAL NOTES

- THIS SECTION SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PLANS, THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED JULY 1, 1994, THE "STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS" ADOPTED NOVEMBER 1994, THE "SUPPLEMENTAL SPECIFICATIONS AND REQUIRING SPECIAL PROVISIONS" ADOPTED FEBRUARY 1, 1995 AND THE SPECIAL PROVISIONS INCLUDED IN THIS PROPOSAL.
- THE STANDARDS WITH THE REVISION NUMBERS LISTED IN THE INDEX OF SHEETS SHALL HOLD PRECEDENCE OVER THE STANDARD NUMBERS LISTED IN THE SPECIAL PROVISIONS OR PLANS OF THE CONTRACT.
- ALL AREAS DISTURBED FOR WHATEVER REASON SHALL BE SEEDED WITH CLASS 2 SEEDING AS DESCRIBED IN THE SPECIAL PROVISIONS AS SOON AS POSSIBLE TO DETER EROSION.
- WHEN SECTION OR SUB-SECTION MARKERS ARE ENCOUNTERED THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER, OR AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED, OR OTHERWISE REFERENCED, THEIR LOCATION.
- ALL ELEVATIONS REFER TO U.S.G.S. MEAN SEA LEVEL DATUM.
- ALL STATIONS AND OFFSETS ALONG F.A.I. 270 ARE REFERENCED TO CONSTRUCTION CENTERLINE UNLESS OTHERWISE NOTED.
- THE FOLLOWING UTILITY COMPANIES HAVE FACILITIES WITHIN THE LIMITS OF CONSTRUCTION. ADJUSTMENTS IN UTILITY LOCATIONS WILL BE MADE BY OWNER UNLESS OTHERWISE NOTED IN PLANS.

*UNION ELECTRIC	*MCI	*SHELL OIL
*ILLINOIS POWER	*WITCHELL PUBLIC WATER DIST.	*MISSISSIPPI RIVER TRANSMISSION
*ILLINOIS CARRIERS	*MADISON COUNTY SANITARY SEWER	*ILLINOIS AMERICAN WATER
*AMERITECH	*CHARTER CABLE	*MARTIN PIPE LINE
*SPRINT	*FOOTMOON BEACH PUBLIC WATER	*ACADE PIPELINE
		*EXPLORER PIPELINE
- *INDICATES THOSE UTILITIES WHICH ARE MEMBERS OF THE JULL.I.E. SYSTEM.
- THE FINAL "I" SURFACE COURSE OF THE PROPOSED RESURFACING SHALL BE PLACED ONLY AFTER BRIDGE CONSTRUCTION OF BOTH STAGES ARE COMPLETED AND ALL TEMPORARY BARRIERS AND TRAFFIC CONTROL APPLICATIONS OF THE STAGES ARE REMOVED FROM THE EAST BOUND LANES. THE TRAFFIC CONTROL INCLUDING TEMPORARY BARRIERS IN THE WEST BOUND LANES SHALL REMAIN IN EFFECT UNTIL ALL RESURFACING OF THE EAST BOUND LANES AND RUMPS HAS BEEN COMPLETED.
- NO WORK SHALL BE STARTED ON SUPER STRUCTURES AND INTERSTATE ROADWAY REQUIRING OVERNIGHT LANE CLOSURE UNTIL JULY 1, 1996.
- OVERNIGHT LANE CLOSURE ON EAST BOUND LANES SHALL NOT BE PERMITTED UNTIL REVERSIBLE LANE ON WEST BOUND LANES IS IN OPERATION AND ALL TEMPORARY GUIDING SIGNS (Overhead, Truss mounted and Ground mounted) ARE PLACED AT THEIR DESIGNATED LOCATIONS.
- TRAFFIC CONTROL AND PROTECTION DETAILS FOR STAGE 1 AND STAGE 2 CONSTRUCTION FOR EACH STRUCTURE AS SHOWN ON THE BRIDGE PLANS SHALL BE INCORPORATED WITH THE MAIN LINE TRAFFIC CONTROL PLAN IN CLOSING EAST BOUND LANE.
- TWO ADDITIONAL DRUMS / BARRICADES TYPE II SHALL BE PLACED IN THE CLOSED LANE AT 600 FOOT INTERVALS TO REINFORCE THE LANE CLOSURE.
- THE CONTRACTOR SHALL HAVE THE OPTION OF USING DRUMS OR TYPE II BARRICADES THAT ARE MADE OF PLASTIC, FIBERGLASS OR OTHER NONMETALLIC MATERIALS. HOWEVER, WHATEVER TYPE IS SELECTED THEY SHALL BE USED THROUGHOUT.
- ALL CONSTRUCTION SIGNS SHALL BE FLORESCENT ORANGE IN COLOR.
- FULL DEPTH SAW CUTTING SHALL BE REQUIRED IN REMOVING PORTIONS OF THE EXISTING STRUCTURES, PAVEMENT OR APPURTENANCE WHEN ADJACENT STRUCTURES, PAVEMENT OR APPURTENANCE WILL REMAIN IN PLACE. SEE SPECIAL PROVISIONS FOR FURTHER DETAILS AND BASIS OF PAYMENT.
- AT LOCATIONS WHERE EXISTING STRUCTURES ARE TO BE ADJUSTED, RECONSTRUCTED, EXTENDED, REMOVED, REPAIRED OR OTHERWISE REVISED, TRENCH BACKFILL SHALL BE PROVIDED IN ACCORDANCE WITH ARTICLE 602.11 OF THE STANDARD SPECIFICATIONS. THE COST OF THE TRENCH BACKFILL SHALL BE INCIDENTAL TO THE TYPE OF STRUCTURE BEING BACKFILLED.
- ALL CLEARING OF VEGETATION, BRUSH, ECT. WITHIN THE LIMITS SHOWN ON BRIDGE PLANS IS INCIDENTAL TO EXCAVATION.
- THE CONTRACTOR SHALL NOTIFY IN WRITING TO MR. FREEMAN MCCULLAH, DISTRICT ENGINEER, MISSOURI HIGHWAY AND TRANSPORTATION DEPARTMENT, 1590 WOODLAKE DRIVE CHESTERFIELD, MISSOURI 63017-5712 PHONE (314)340-4100 FAX (314)340-4119 AT LEAST TWO (2) WEEKS PRIOR TO ANY CONSTRUCTION ACTIVITY BEGINS ON THE MISSOURI SIDE.
- THE CONTRACTOR SHALL NOTIFY IN WRITING TO MR. ROGER K. WIEBUSH, U.S. COAST GUARD SECOND DISTRICT 1222 SPRUCE STREET, ST. LOUIS MISSOURI 63103-2832 PHONE (314)639-3724 AT LEAST TWO (2) WEEKS PRIOR TO ANY CONSTRUCTION WORK BEGINS ON THE STRUCTURES OVER THE CHAIN OF ROCKS CANAL.
- THE ENGINEER SHALL MONITOR MOVEMENTS OF EXISTING PIERS AND ABUTMENTS OF THE STRUCTURES DURING PILE DRIVING AND FOR ONE (1) WEEK AFTER. THE MOVEMENT DATA SHALL BE SUBMITTED TO MARY LAMIE, DISTRICT GEOTECHNICAL INVESTIGATION ENGINEER PHONE (618)346-3313

LEGEND



ILLINOIS DEPARTMENT OF TRANSPORTATION
**INDEX OF SHEETS, STANDARDS,
 GENERAL NOTES & LEGEND**

F.A.I. ROUTE 270
 SECTION 608-1-3, 60-1B-1-3, 60-1BHY, 2V8BY, 3V8BY, 3VBT, 3VBT-IL, 60-1L2, 3V8-1, 60-2HB-HDF & 60-3HB-1-HDF-1
 MADISON COUNTY

PLAN
 20' = 1" (VERTICAL)
 1" = 100' (HORIZONTAL)
 DATE: 11/12/95
 DRAWN BY: [Name]
 CHECKED BY: [Name]
 APPROVED BY: [Name]

DATE: 11/12/95
 DRAWN BY: [Name]
 CHECKED BY: [Name]
 APPROVED BY: [Name]

* 60B-1-3, 60-1B-1-3, 60-12HB, 2V2HB, 3V2HB, 3V2D, 3HB, 11, 60-11.2.3MS-1, 60-2HB-HDF & 60-3HB-1-HDF-1

S.A. NO.	SECTION	COUNTY	SHEET NO.	SHEET OF
270	*	MADISON	448	4
STA. TO STA.				
EXISTING CONDITIONS:				

SUMMARY OF QUANTITIES

CODE NO	ITEM	UNIT	TOTAL QUANTITIES	CONSTRUCTION TYPE CODE																							
				SK 060-0035 60B-1-3		SK 060-0036 60-1B-1-3		SK 060-0038 60-2HB		SK 060-0038 60-2HB		SK 060-0040 60-2HB		SK 060-0042 60-3HB		SK 060-0044 60-3HB		SK 060-0046 60-3HB-1-HDF-1		SK 060-0046 60-3HB-1		SK 060-0046 60-3HB-1		SK 060-0046 60-3HB-1			
				FED STATE	SOX	FED STATE	SOX	FED STATE	SOX	FED STATE	SOX	FED STATE	SOX	FED STATE	SOX	FED STATE	SOX	FED STATE	SOX	FED STATE	SOX	FED STATE	SOX	FED STATE	SOX	FED STATE	SOX
75010600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	508																								
75010700	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	38																								
75030020	PREFORMED PLASTIC PAVEMENT MARKING, TYPE A - LINE 4"	FOOT	23214	12174		4478																					
75070100	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	655																								
75100312	QUADRANT MARKERS TYPE B	EACH	277																								
75120100	PAINT PAVEMENT MARKING REMOVAL	SQ FT	8381																								
XK000983	REMOVE EXISTING CONTROL INSTALLATION	EACH	1																								
X0301194	CABINET, TYPE III	EACH	1																								
X0320025	FURNISH AND MAINTAIN RADIO	EACH	6																								
X0320870	BRACED EXCAVATION	CU YD	1789			162																					
X0321259	POLYMER MODIFIED PORTLAND CEMENT MORTAR	CU FT	925	925																							
X0321468	PLUG EXISTING DECK DRAINS	EACH	84	84																							
X9560010	CONDUIT ATTACHED TO STRUCTURE, 1" DIA., ALUMINUM	FOOT	350		350																						
X9560020	CONDUIT ATTACHED TO STRUCTURE, 2" DIA., ALUMINUM	FOOT	4000		4000																						
Z0002000	ATTENUATOR BASE	SO YD	59																								
Z0002600	BAR SPLICERS	EACH	7685	316	596		896			834			2672			2146						825					
Z0006110	BRIDGE DECK MICROSILICA CONCRETE OVERLAY	SO YD	23435	16802	6633																						
Z0012200	CONCRETE BRIDGE DECK SCARIFICATION (1/2 INCH)	SO YD	23435	16802	6633																						
Z0016001	DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SO YD	9	4	5																						
Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE III)	SO YD	224	109	115																						
Z0016200	DECK SLAB REPAIR (PARTIAL)	SO YD	285	185	100																						
Z0017900	DRAINAGE SCUPPERS	EACH	22				8			2				7													
Z0018000	DRAINAGE SCUPPERS (SPECIAL)	EACH	3																								
Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	50	25	25																						
Z0018800	DRAINAGE SYSTEM	L SUW	1																								
Z0047300	PROTECTIVE SHIELD	SO YD	6505				854			555			3322			985						789					
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUW	1							0.2						0.2											
Z0049200	REINFORCED NEOPRENE EXPANSION JOINT TREATMENT	FOOT	601	311	290																						
Z0051900	REPAIR OF CRACKS	FOOT	3090																					3090			
Z0056400	SAND MODULE IMPACT ATTENUATOR (TEMPORARY)	EACH	36																					36			
Z0062000	SAW CUTTING	FOOT	9846							445	369												450	8582			
Z0065730	SLOPE WALL SLURRY PUMPING	CU YD	16																								
Z0073300	TEMPORARY SHORING AND CRIBBING	L SUW	1																								
Z0073400	TEMPORARY SUPPORT SYSTEM	EACH	42	42																							
Z0200100	EARTH EXCAVATION	CU YD	2214							243			191			92						130		201	1357		
Z0500150	EMBANKMENT	CU YD	12921							641			330			861						7654		1617	1818		
Z0800150	TRENCH BACKFILL	CU YD	69							8						21						25		15			
Z5000200	SEEDING, CLASS 2	ACRE	5.6							0.8						0.5						1.5		0.6	1.5		
Z5000400	NITROGEN FERTILIZER NUTRIENT	POUND	504							72						45						63		54	135		
Z5000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	504							72						45						63		54	135		
Z5000600	POTASSIUM FERTILIZER NUTRIENT	POUND	504							72						45						63		54	135		
Z0066240	SAND MODULE IMPACT ATTENUATOR (RELOCATE)	EACH	24																						24		
Y0920200	PAINT PAVEMENT MARKING - LINE 4"	FOOT	4656																						4656		

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* 60B-1-3, 60-1B-1-3, 60-12(HY), 2V(HY), 3V(HY), 3V(D), 3(HY)-B, 60-1L2,3(RS)-1, 60-2(H)-HDF & 60-3(H)-1-HDF-1

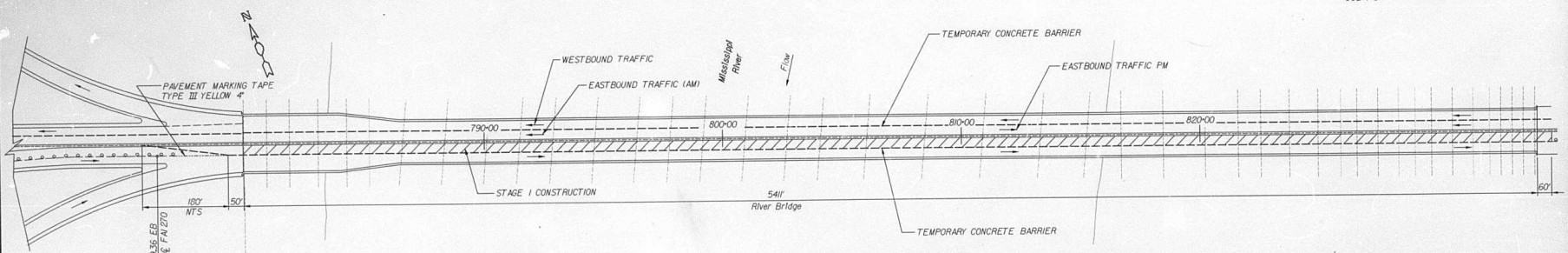
A.A. #	SECTION	COUNTY	HWY	HEET
270	*	MADISON	44B	B
STA.		FD STA.		
EXISTING CONDITIONS:				

SUMMARY OF QUANTITIES

CODE NO	ITEM	UNIT	TOTAL QUANTITIES	CONSTRUCTION TYPE CODE																							
				ACIM		ACIM		MCHD		ACBHI		ACIM		ACIM		ACBHI		MCHD		ACBHI		ACIM		ACIM			
				60B-1-3		60-1B-1-3		60-12(HY)		2V(HY)		3V(HY)		3V(D)		3(HY)-B		60-1L2,3(RS)-1		60-2(H)-HDF		60-3(H)-1-HDF-1					
				FED STATE	SOX	FED STATE	SOX	FED STATE	SOX	FED STATE	SOX	FED STATE	SOX	FED STATE	SOX	FED STATE	SOX	FED STATE	SOX	FED STATE	SOX	FED STATE	SOX	FED STATE	SOX	FED STATE	SOX
63100061	TRAFFIC BARRIER TERMINAL, TYPE 3C	EACH	11																								
63100065	TRAFFIC BARRIER TERMINAL, TYPE 4	EACH	1																								
63100070	TRAFFIC BARRIER TERMINAL, TYPE 5	EACH	5																								
63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	13																								
63100105	TRAFFIC BARRIER TERMINAL, TYPE 10	EACH	18																								
63200305	STEEL PLATE BEAM GUARD RAIL REMOVAL	FOOT	15017.5																								
63200400	CABLE ROAD GUARD REMOVAL	FOOT	1825																								
63200715	STEEL PLATE BEAM GUARD RAIL REMOVAL, TYPE B	FOOT	125																								
63300205	REMOVAL AND REINSTALLATION OF EXISTING STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	25																								
63300405	REMOVAL AND REINSTALLATION OF EXISTING TRAFFIC BARRIER TERMINAL, TYPE 1	EACH	1																								
63300415	REMOVAL AND REINSTALLATION OF EXISTING TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	1																								
63301000	REMOVE AND RE-ERECT STEEL PLATE BEAM GUARD RAIL	FOOT	525																								
63302905	REMOVE AND RE-ERECT TRAFFIC BARRIER TERMINAL, TYPE 10	EACH	2																								
63304385	TRAFFIC BARRIER TERMINAL REMOVAL, TYPE 1	EACH	7																								
63304395	TRAFFIC BARRIER TERMINAL REMOVAL, TYPE 2	EACH	1																								
63304605	TRAFFIC BARRIER TERMINAL REMOVAL, TYPE 4	EACH	3																								
63304805	TRAFFIC BARRIER TERMINAL REMOVAL, TYPE 6	EACH	2																								
63304905	TRAFFIC BARRIER TERMINAL REMOVAL, TYPE 8	EACH	2																								
63304910	TRAFFIC BARRIER TERMINAL REMOVAL, TYPE 9	EACH	3																								
63304915	TRAFFIC BARRIER TERMINAL REMOVAL, TYPE 10	EACH	24																								
63305005	TRAFFIC BARRIER TERMINAL REMOVAL, TYPE 12	EACH	1																								
63500105	DELINEATORS	EACH	489																								
63500180	DELINEATOR REMOVAL	EACH	508																								
63700115	CONCRETE BARRIER, DOUBLE FACE	FOOT	2716																								
63700120	CONCRETE BARRIER, SINGLE FACE	FOOT	120																								
63700400	CONCRETE BARRIER, DOUBLE FACE (SPECIAL)	FOOT	1100																								
63700600	CONCRETE BARRIER, SINGLE FACE (SPECIAL)	FOOT	300																								
63801000	CONCRETE GLARE SCREEN	FOOT	1098																								
66400250	CHAIN LINK FENCE, 5'	FOOT	105																								
66410300	CHAIN LINK FENCE REMOVAL	FOOT	105																								
67000401	ENGINEER'S FIELD OFFICE, TYPE A-1	CAL WD	30																								
67000600	ENGINEER'S FIELD LABORATORY	CAL WD	30																								
90100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 2419	EACH	12																								
90100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 2503	L SW	1																								
90100700	TRAFFIC CONTROL AND PROTECTION, STANDARD 2315	L SW	1																								

ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-270		MADISON	448	339
STA.	TO STA.			
F.H.W.A REGION	ILLINOIS	PROJECT		

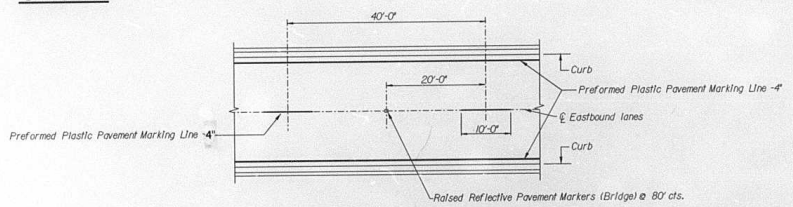
60B-1-3



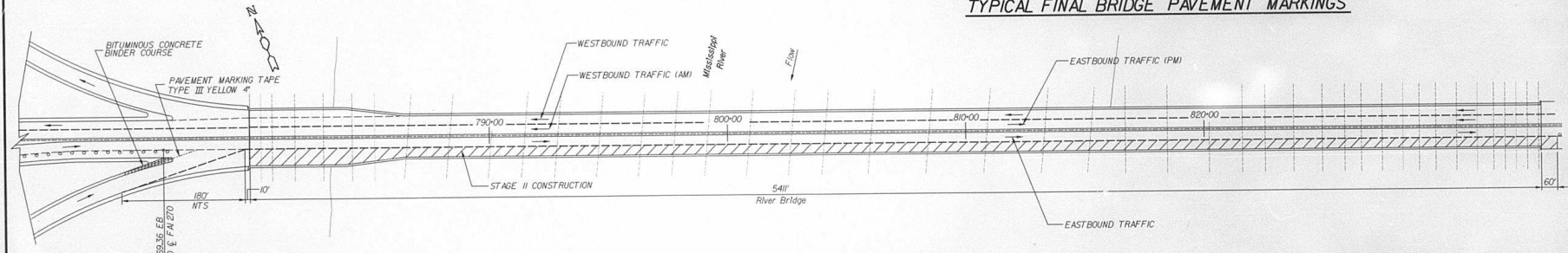
BILL OF MATERIAL

ITEM	UNIT	TOTAL
PERFORMED PLASTIC PAVEMENT MARKING LINE -4"	LIN.FT.	12174
RAISED REFLECTIVE PAVEMENT MARKERS (BRIDGE)	EACH	69
TEMPORARY PAVEMENT MARKING PAINT YELLOW 4"	LIN.FT.	200
TEMPORARY CONCRETE BARRIER	LIN.FT.	5603
RELOCATE TEMPORARY CONCRETE BARRIER	LIN.FT.	5603
BITUMINOUS CONCRETE BINDER COURSE, TYPE I	TON	71

**MAINTENANCE OF TRAFFIC
STAGE I**



TYPICAL FINAL BRIDGE PAVEMENT MARKINGS



LEGEND

- TEMPORARY CONCRETE BARRIER
- PAVEMENT MARKING TAPE
- DRUM W/ STEADY BURNING LIGHT
- DIRECTION OF TRAFFIC
- ▨ STAGE CONSTRUCTION

**MAINTENANCE OF TRAFFIC
STAGE II**

ILLINOIS DEPARTMENT OF TRANSPORTATION
 MAINTENANCE OF TRAFFIC - PHASE II, STAGE I & II
 EASTBOUND LANES CONSTRUCTION
 FAI-270 OVER THE MISSISSIPPI RIVER
 EASTBOUND BRIDGE REPAIR
 SECTION 60B-1-3
 MADISON COUNTY
 STRUCTURE NUMBER 060-0035

DESIGNED	JN
CHECKED	DM
DRAWN	CD
CHECKED	JN

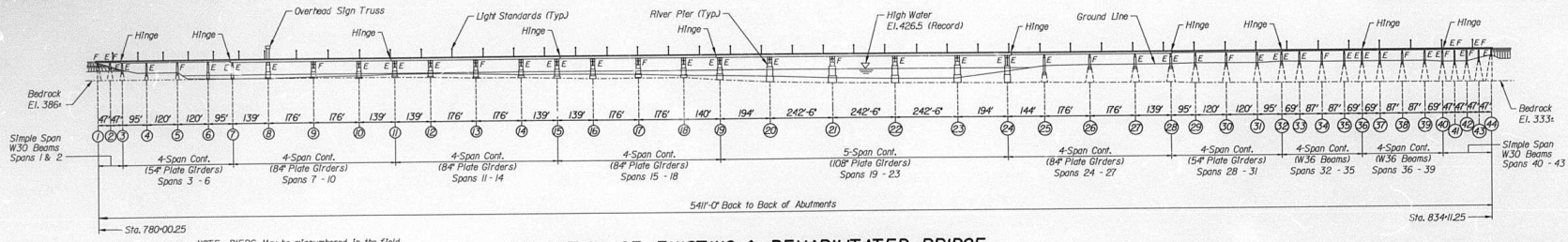
Sheets 339 thru 448 (Set 4 of 4)

alfred benesch & company
 CONSULTING ENGINEERS
 200 NORTH MICHIGAN AVENUE, CHICAGO, ILLINOIS 60601
 JOB NO. 3011

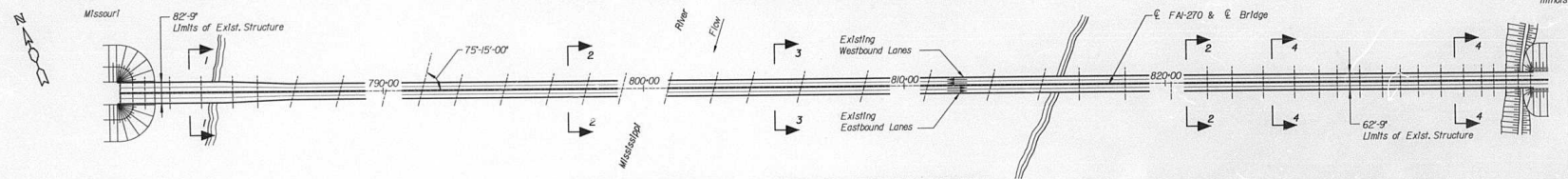
DATE 1995

ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA-270		MADISON	448	340
STA. TO STA.		ILLINOIS PROJECT		
F.H.W.A. REGION		PROJECT		
#60B-I-3		SHT. 1 OF 64		

Benchmark:
12A cut on east curb of Riverview Drive, Sta. 15+95, Elev. 440.66.

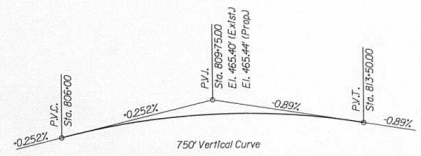


ELEVATION OF EXISTING & REHABILITATED BRIDGE



PLAN OF EXISTING & REHABILITATED BRIDGE

Notes:
For sections 1,2,3 and 4, see sheet 5.



EXISTING & PROPOSED PROFILE GRADE

Existing and Proposed Grade Along Bridge of FAI-270

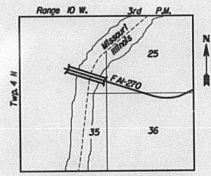
Design Specifications

AASHTO 1992, 1993 & 1994 Interims
Existing structure design per AASHTO Specifications 1957
with tentative AASHTO Specifications For 1958, 1959 & 1960.

Loading HS 20-44

Design Stresses

Concrete
 $f_c = 3,500$ psi
 $f_y = 60,000$ psi
 Structural Steel
 $f_s = 20,000$ psi (M270, Gr. 36)
 $f_s = 27,000$ psi (M270, Gr. 50)



LOCATION SKETCH

ILLINOIS DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION OF
REHABILITATION OF MISSISSIPPI RIVER BRIDGE
FAI-270 OVER THE MISSISSIPPI RIVER
EASTBOUND BRIDGE REPAIR
SECTION 60B-I-3
MADISON COUNTY
STRUCTURE NUMBER 060-0035

DATE 1995

alfred benesch & company
CONSULTING ENGINEERS
205 NORTH MICHAEL AVENUE, CHICAGO, ILLINOIS 60601
JOB NO. 3011

DESIGNED	JN
CHECKED	DM
DRAWN	CD
CHECKED	JN

DRAWING INDEX

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA-270		MADISON	448	341
STA.		TO STA.		
F.H.W.A. REGION		ILLINOIS	PROJECT	
		60B-1-3	SHT. 2 OF 64	

MISSISSIPPI RIVER BRIDGE

DRAWING DESCRIPTION

DRWG

NO.

- TITLE SHEET
- 1 GENERAL PLAN AND ELEVATION OF REHABILITATION OF MISSISSIPPI RIVER BRIDGE
- 2 DRAWING INDEX MISSISSIPPI RIVER BRIDGE
- 3 GENERAL NOTES MISSISSIPPI RIVER BRIDGE
- 4 TOTAL BILL OF MATERIAL MISSISSIPPI RIVER BRIDGE
- 5 DECK CROSS-SECTIONS; MISSISSIPPI RIVER BRIDGE
- 6 MAINTENANCE OF TRAFFIC STAGE I; EASTBOUND CONSTRUCTION
- 7 MAINTENANCE OF TRAFFIC STAGE II; EASTBOUND CONSTRUCTION
- 8 DECK PLAN RIVER BRIDGE; PART SPANS 1-3
- 9 DECK PLAN RIVER BRIDGE; PART SPAN 5
- 10 DECK PLAN RIVER BRIDGE; PART SPAN 5 & SPANS 6 & 7
- 11 DECK PLAN RIVER BRIDGE; SPANS 8 & 9
- 12 DECK PLAN RIVER BRIDGE; SPANS 10-12
- 13 DECK PLAN RIVER BRIDGE; SPANS 13-15
- 14 DECK PLAN RIVER BRIDGE; SPANS 16-18 & PART SPAN 19
- 15 DECK PLAN RIVER BRIDGE; PART SPANS 19 & 21 & SPAN 20
- 16 DECK PLAN RIVER BRIDGE; PART SPAN 21 & SPANS 22 & 23
- 17 DECK PLAN RIVER BRIDGE; SPANS 24-26 & PART SPAN 27
- 18 DECK PLAN RIVER BRIDGE; PART SPAN 27 & SPANS 28-31
- 19 DECK PLAN RIVER BRIDGE; SPANS 32-37
- 20 DECK PLAN RIVER BRIDGE; SPANS 38-43
- 21 RIVER BRIDGE; S. PARAPET & DECK OVERHANG; SPANS 1-6
- 22 RIVER BRIDGE; S. PARAPET & DECK OVERHANG; SPANS 7 - 10
- 23 RIVER BRIDGE; S. PARAPET & DECK OVERHANG; SPANS 11 - 14
- 24 RIVER BRIDGE; S. PARAPET & DECK OVERHANG; SPANS 15 - 18
- 25 RIVER BRIDGE; S. PARAPET & DECK OVERHANG; SPANS 19 - 20
- 26 RIVER BRIDGE; S. PARAPET & DECK OVERHANG; SPANS 21 - 22
- 27 RIVER BRIDGE; S. PARAPET & DECK OVERHANG; SPANS 23 - 24
- 28 RIVER BRIDGE; S. PARAPET & DECK OVERHANG; SPANS 25 - 27
- 29 RIVER BRIDGE; S. PARAPET & DECK OVERHANG; SPANS 28 - 32
- 30 RIVER BRIDGE; S. PARAPET & DECK OVERHANG; SPANS 33 - 39
- 31 RIVER BRIDGE; S. PARAPET & DECK OVERHANG; SPANS 40 - 43
- 32 RIVER BRIDGE; MEDIAN PARAPET ELEVATION; SPANS 1 - 6
- 33 RIVER BRIDGE; MEDIAN PARAPET ELEVATION; SPANS 7 - 10
- 34 RIVER BRIDGE; MEDIAN PARAPET ELEVATION; SPANS 11 - 14
- 35 RIVER BRIDGE; MEDIAN PARAPET ELEVATION; SPANS 15 - 18
- 36 RIVER BRIDGE; MEDIAN PARAPET ELEVATION; SPANS 19 - 20
- 37 RIVER BRIDGE; MEDIAN PARAPET ELEVATION; SPANS 21 - 22
- 38 RIVER BRIDGE; MEDIAN PARAPET ELEVATION; SPANS 23 - 24
- 39 RIVER BRIDGE; MEDIAN PARAPET ELEVATION; SPANS 25 - 27
- 40 RIVER BRIDGE; MEDIAN PARAPET ELEVATION; SPANS 28 - 32
- 41 RIVER BRIDGE; MEDIAN PARAPET ELEVATION; SPANS 33 - 39
- 42 RIVER BRIDGE; MEDIAN PARAPET ELEVATION; SPANS 40 - 43
- 43 GIRDER REPAIRS - CROSS FRAME CONNECTIONS
- 44 STEEL DETAILS - MISSISSIPPI RIVER BRIDGE
- 45 EAST ABUTMENT & PIER 5 - MISSISSIPPI RIVER BRIDGE
- 46 PIER REPAIRS; MISSISSIPPI RIVER BRIDGE
- 47 MISSISSIPPI RIVER BRIDGE PIER REPAIRS - BEARINGS
- 48 BOLT REPLACEMENT - MISSISSIPPI RIVER BRIDGE
- 49 PARAPET, DECK OVERHANG & RAILING DETAILS
- 50 EXPANSION JOINTS AT PIERS 1 & 44
- 51 EXPANSION JOINTS AT PIERS 2, 41, 42 & 43
- 52 PREFORMED JOINT SEAL DETAILS
- 53 GENERAL PLAN (BY RALPH HAHN & ASSOCIATES)
- 54 REMOVAL & BILL OF MATERIAL (BY RALPH HAHN & ASSOCIATES)
- 55 DECK REPLACEMENT (BY RALPH HAHN & ASSOCIATES)
- 56 EXPANSION DEVICES AT PIERS 11 & 15 (BY RALPH HAHN & ASSOCIATES)
- 57 EXPANSION DEVICES AT PIERS 3, 32, 36 & 40 (BY RALPH HAHN & ASSOCIATES)
- 58 EXPANSION DEVICES AT PIERS 7 & 28 (BY RALPH HAHN & ASSOCIATES)
- 59 EXPANSION DEVICES AT PIERS 19 & 24 (BY RALPH HAHN & ASSOCIATES)
- 60 TROUGH DETAILS (BY RALPH HAHN & ASSOCIATES)

DRWG

NO.

DRAWING DESCRIPTION

- 61 STEEL DETAILS (BY RALPH HAHN & ASSOCIATES)
- 62 STEEL REMOVALS (BY RALPH HAHN & ASSOCIATES)
- 63 BAR SPICERS (BY RALPH HAHN & ASSOCIATES)
- 64 TEMPORARY CONCRETE BARRIER

DESIGNED	JN
CHECKED	DM
DRAWN	CD
CHECKED	JN



alfred benesch & company
CONSULTING ENGINEERS
305 NORTH MICHIGAN AVENUE, CHICAGO, ILLINOIS 60611
JOB NO. 5011

ILLINOIS DEPARTMENT OF TRANSPORTATION

DRAWING INDEX

MISSISSIPPI RIVER BRIDGE

FA-270 OVER THE MISSISSIPPI RIVER
EASTBOUND BRIDGE REPAIR
SECTION 60B-1-3
MADISON COUNTY
STRUCTURE NUMBER 060-0035

DATE 1995

GENERAL NOTES

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-270	*	MADISON	448	342.
STA.		TO STA.		
F.H.M.A. REGION	ILLINOIS	PROJECT		
60B-1-3		SHT. 3 OF 64		

1) Fasteners shall be High strength bolts $\frac{7}{8}$ " diameter, open holes $\frac{3}{8}$ " diameter, unless otherwise noted.

2) Calculated weight of Structural Steel - 116,820 LBS AASHTO M270 Grade 36.
Calculated weight of Structural Steel - 80,730 LBS AASHTO M270 Grade 50.

3) All structural steel shall be AASHTO M270 Grade 36 except as noted.

4) Field welding of construction accessories will not be permitted to the bottom flange or top flange of girders for a distance equal to one-fourth the span length each way from the pier supports. Field welding will not be permitted to the bottom flange of girders in the two girder span systems. Field welding in other areas will be permitted only when approved by the Engineer.

5) Reinforcement bars shall conform to the requirements of AASHTO M-31, M-42 or M-53 Grade 60.

6) Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

7) Roadway expansion guards shall be assembled in the proper position with the ends in place and shall be left assembled for shop inspection.

8) The roadway expansion plates shall be flame cut as provided in Article 505.04(1) of the Standard Specifications.

9) Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.

10) The paint on the existing structural steel contains lead. Precautions shall be taken to protect workers and the environment as required by Local, State, and Federal Regulations.

11) Any existing reinforcement bars that are corroded or damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost incidental to "Concrete Removal".

12) Prior to pouring the new concrete for the deck, all loose mill scale, and all other loose, detrimental foreign material shall be removed from the embedded portions of flanges of stringers/girders. The removal shall be accomplished in accordance with the requirements of the SSPC Surface Preparation Specifications SP-3 for power tool cleaning or SP-2 for hand tool cleaning. Cost shall be incidental to concrete removal. Existing structural steel shall only be cleaned as required by the Special Provision "Cleaning and Painting Adjacent Areas of Existing Steel Structures".

13) Bridge seat soiler shall be applied to the retaining concrete at the east abutment (Pier 44) of the Mississippi River bridge and areas of pier cap repair below bearings.


14) Expansion joint plates and attached bars shall be shop painted with the Zinc Silicate Primer.

15) The Zinc Silicate/Acrylic/Acrylic Paint System shall be used for shop and field painting of new structural steel except where otherwise noted. The color of the acrylic finish coat shall be Interstate Green, Munsell No. 7.5G 4/B. See Special Provisions for "Cleaning and Painting Metal Structures".

16) Reinforcement bars designated (E) shall be Epoxy Coated.

17) Deck Repairs are based on 2/22/95 I.R.T. and 3/14/95 G.P.R.

DESIGNED	JN
CHECKED	DM
DRAWN	CD
CHECKED	JN


alfred benesch & company
 CONSULTING ENGINEERS
 335 NORTH MICHIGAN AVENUE, CHICAGO, ILLINOIS 60601
 JOB NO. 3011

ILLINOIS DEPARTMENT OF TRANSPORTATION
GENERAL NOTES
MISSISSIPPI RIVER BRIDGE
 FAI-270 OVER THE MISSISSIPPI RIVER
 EASTBOUND BRIDGE REPAIR
 SECTION 60B-1-3
 MADISON COUNTY
 STRUCTURE NUMBER 060-0035
 DATE 1995

ITEM	ALFRED BENESCH & COMPANY		RALPH HAHN & ASSOCIATES	TOTAL
	UNIT	SUB-STRUCTURE	SUPER-STRUCTURE	
STONE RIPRAP	SOYD.	1020		1020 ✓
FILTER FABRIC FOR RIPRAP	SOYD.	1,350		1,350 ✓
PROTECTIVE COAT	SOYD.	430	5,600	6,030 ✓
BITUMINOUS CONCRETE REMOVAL (DECK)	SOYD.		16,850	16,850 ✓
CONCRETE REMOVAL	CU.YD.		30	30 ✓
PREFORMED JOINT SEAL, 1/4"	FOOT		78	78 ✓
PREFORMED JOINT SEAL, 2/8"	FOOT		145	145 ✓
CONCRETE STRUCTURES	CU.YD.	10		10 ✓
CONCRETE SUPERSTRUCTURE	CU.YD.		30	30 ✓
FORMED CONCRETE REPAIR (DEPTH EQUAL TO OR LESS THAN 5")**	SO.FT.	430	5,600	6,030 ✓
FURNISHING & ERECTING STRUCTURAL STEEL	POUND		8,530	8,530 ✓
JACK AND REPOSITION BEARINGS	EACH		2	2 ✓
STRUCTURAL STEEL REPAIR	POUND		930	930 ✓
STRUCTURAL STEEL REMOVAL	POUND		23,960	23,960 ✓
REINFORCEMENT BARS, EPOXY COATED	POUND	790	5,480	6,270 ✓
ALUMINUM RAILING	FOOT		430	430 ✓
BRIDGE SEAT SEALER	SO.FT.	125		125 ✓
EPOXY CRACK SEALING	FOOT	600		600 ✓
TRAFFIC CONTROL AND PROTECTION	L SUM		1	1 ✓
POLYMER MODIFIED PORTLAND CEMENT MORTAR	CU.FT.		925	925 ✓
BAR SPICERS	EACH		108	108 ✓
BRIDGE DECK MICROSILICA CONCRETE OVERLAY, 2 1/2"	SOYD.		16,802	16,802 ✓
CONCRETE BRIDGE DECK SCARIFICATION (1/2 INCH)	SOYD.		16,802	16,802 ✓
DECK SLAB REPAIR (PARTIAL) ***	SOYD.		185	185 ✓
DECK SLAB REPAIR (FULL-DEPTH TYPE II)	SOYD.		4	4 ✓
DECK SLAB REPAIR (FULL-DEPTH TYPE III)	SOYD.		109	109 ✓
PLUGGING EXISTING DECK DRAIN	EACH		84	84 ✓
REINFORCED NEOPRENE EXPANSION JOINT TREATMENT	FOOT		311	311 ✓
CLEANING DRAINAGE STRUCTURES	EACH		25	25 ✓
ALUMINUM RAILING POST REPAIR	EACH		50	50 ✓
OVERHEAD SIGN SUPPORT REPAIR	EACH		1	1 ✓
BRIDGE DECK GROOVING	SOYD.		15,542	15,542 ✓

** WHERE "FORMED CONCRETE REPAIR <S>" APPEARS IN THE PLANS IT SHALL BE TAKEN TO BE EQUIVALENT TO FORM CONCRETE REPAIR (DEPTH EQUAL TO OR LESS THAN 5")

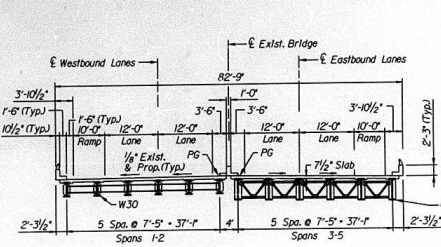
*** WHERE "DECK SLAB REMOVAL (PARTIAL)" APPEARS IN THE PLANS IT SHALL BE TAKEN TO BE EQUIVALENT TO "DECK SLAB REPAIR (PARTIAL)".

DESIGNED	JN
CHECKED	DM
DRAWN	CD
CHECKED	JN

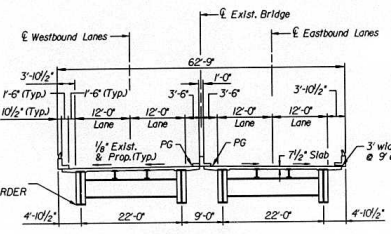
alfred benesch & company
CONSULTING ENGINEERS
300 NORTH MICHIGAN AVENUE, CHICAGO, ILLINOIS 60601
JOB NO. 3011

ILLINOIS DEPARTMENT OF TRANSPORTATION
TOTAL BILL OF MATERIAL
MISSISSIPPI RIVER BRIDGE
FAI-270 OVER THE MISSISSIPPI RIVER
EASTBOUND BRIDGE REPAIR
SECTION 60B-1-3
MADISON COUNTY
STRUCTURE NUMBER 060-0035
DATE 1995

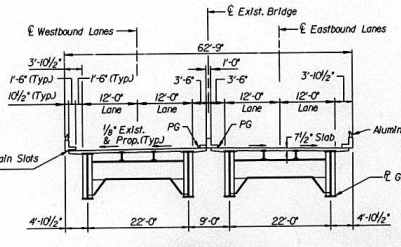
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FAI-270		MADISON	448	344
STA.		TO STA.		
F.A.R.A. REGION		KLINGS		PROJECT
#60B-1-3		SHT. 5 OF 64		



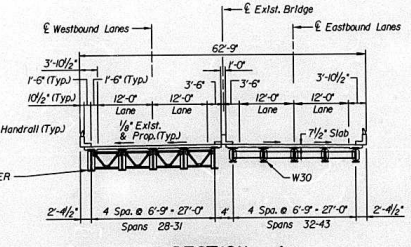
SECTION 1
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Looking East



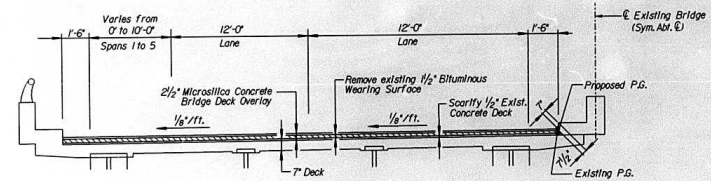
SECTION 2
Spans 8-18 & 24-27
(Span 7 similar)
Looking East



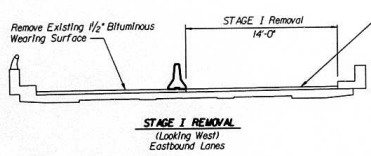
SECTION 3
Spans 19-23
Looking East



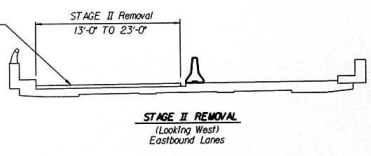
SECTION 4
Looking East



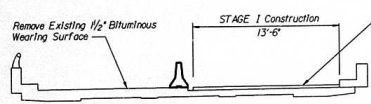
PROPOSED CROSS SECTION
(Looking West)
Eastbound Lanes



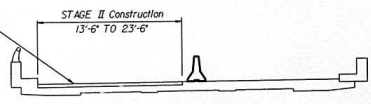
STAGE I REMOVAL
(Looking West)
Eastbound Lanes



STAGE II REMOVAL
(Looking West)
Eastbound Lanes



STAGE I CONSTRUCTION
(Looking West)
Eastbound Lanes



STAGE II CONSTRUCTION
(Looking West)
Eastbound Lanes

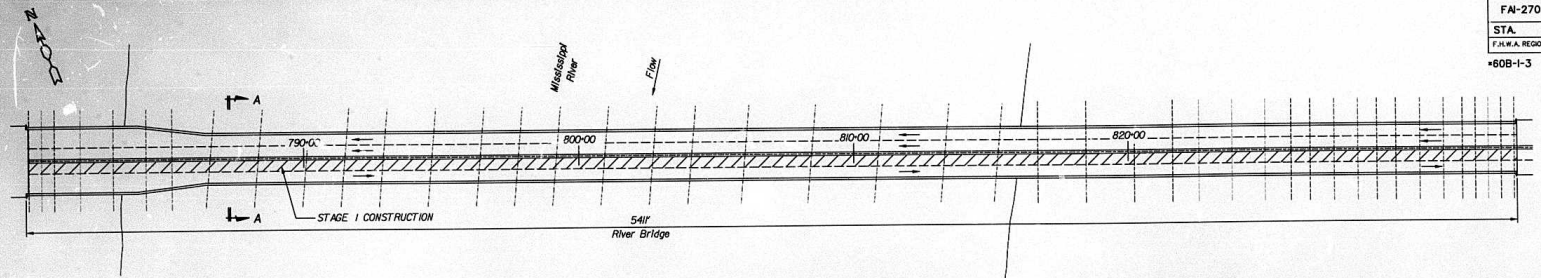
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DRAWN	CD
CHECKED	JN



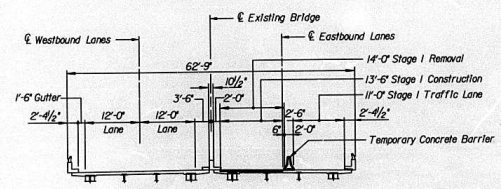
alfred benesch & company
CONSULTING ENGINEERS
305 NORTH MICHIGAN AVENUE, CHICAGO, ILLINOIS 60601
JOB NO. 3011

ILLINOIS DEPARTMENT OF TRANSPORTATION
DECK CROSS SECTIONS
MISSISSIPPI RIVER BRIDGE
FAI-270 OVER THE MISSISSIPPI RIVER
EASTBOUND BRIDGE REPAIR
SECTION 60B-1-3
MADISON COUNTY
STRUCTURE NUMBER 060-0035
DATE 1995

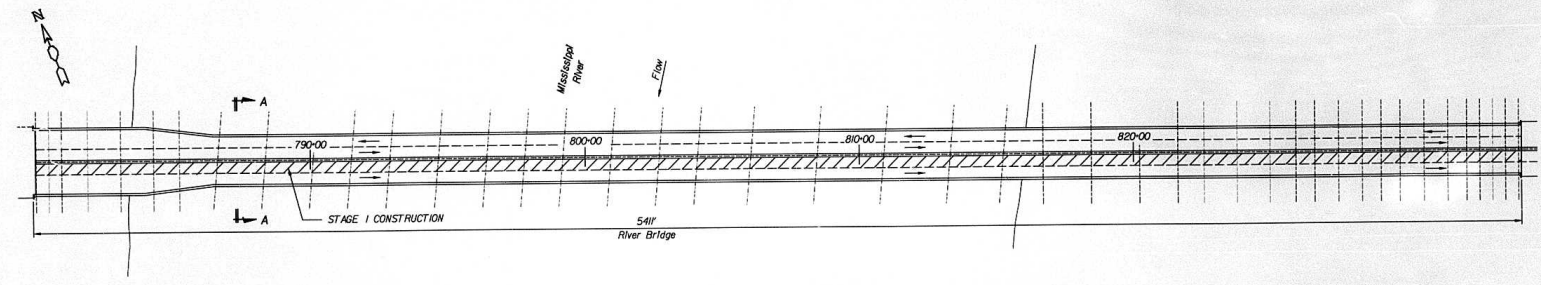
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-270		MADISON	448	345
STA.		TO STA.		
F.H.W.A. REGION		ILLINOIS	PROJECT	
*60B-1-3		SHT. 6 OF 64		



MAINTENANCE OF TRAFFIC
MORNING TRAFFIC



SECTION A-A
CONSTRUCTION STAGE I
(RIVER BRIDGE)



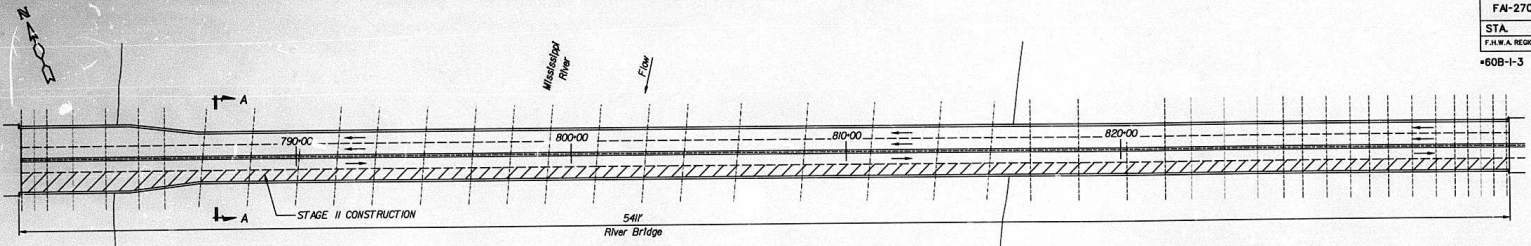
MAINTENANCE OF TRAFFIC
AFTERNOON TRAFFIC

DESIGNED	JN
CHECKED	DM
DRAWN	CD
CHECKED	JN

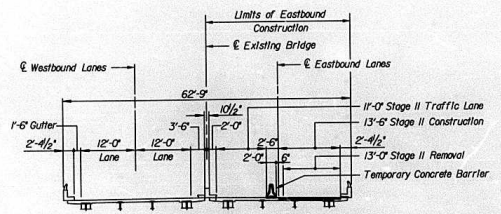
alfred benesch & company
CONSULTING ENGINEERS
300 NORTH MICHIGAN AVENUE, CHICAGO, ILLINOIS 60601
JOB NO. 3011

ILLINOIS DEPARTMENT OF TRANSPORTATION
MAINTENANCE OF TRAFFIC - PHASE II, STAGE I
EASTBOUND LANES CONSTRUCTION
FAI-270 OVER THE MISSISSIPPI RIVER
EASTBOUND BRIDGE REPAIR
SECTION 60B-1-3
MADISON COUNTY
STRUCTURE NUMBER 060-0035
DATE 1995

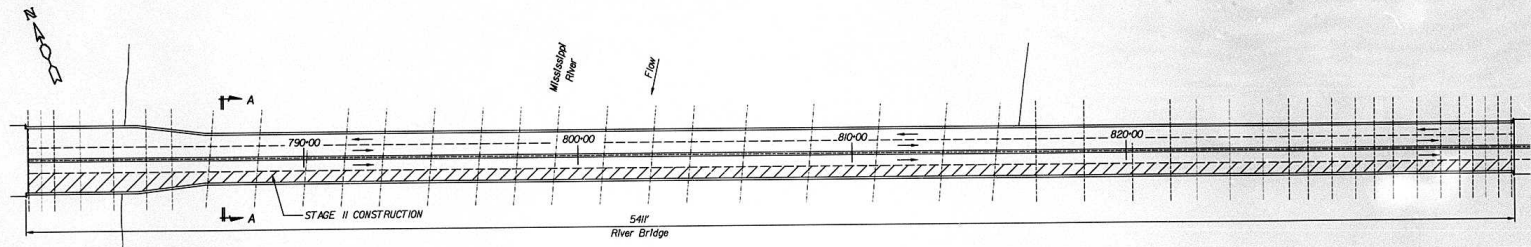
ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-270		MADISON	488	346
STA.		TO STA.		
F.H.W.A REGION		LLINOS	PROJECT	
60B-1-3		SHT. 7 OF 64		



MAINTENANCE OF TRAFFIC
MORNING TRAFFIC



SECTION A-A
CONSTRUCTION STAGE II
(RIVER BRIDGE)



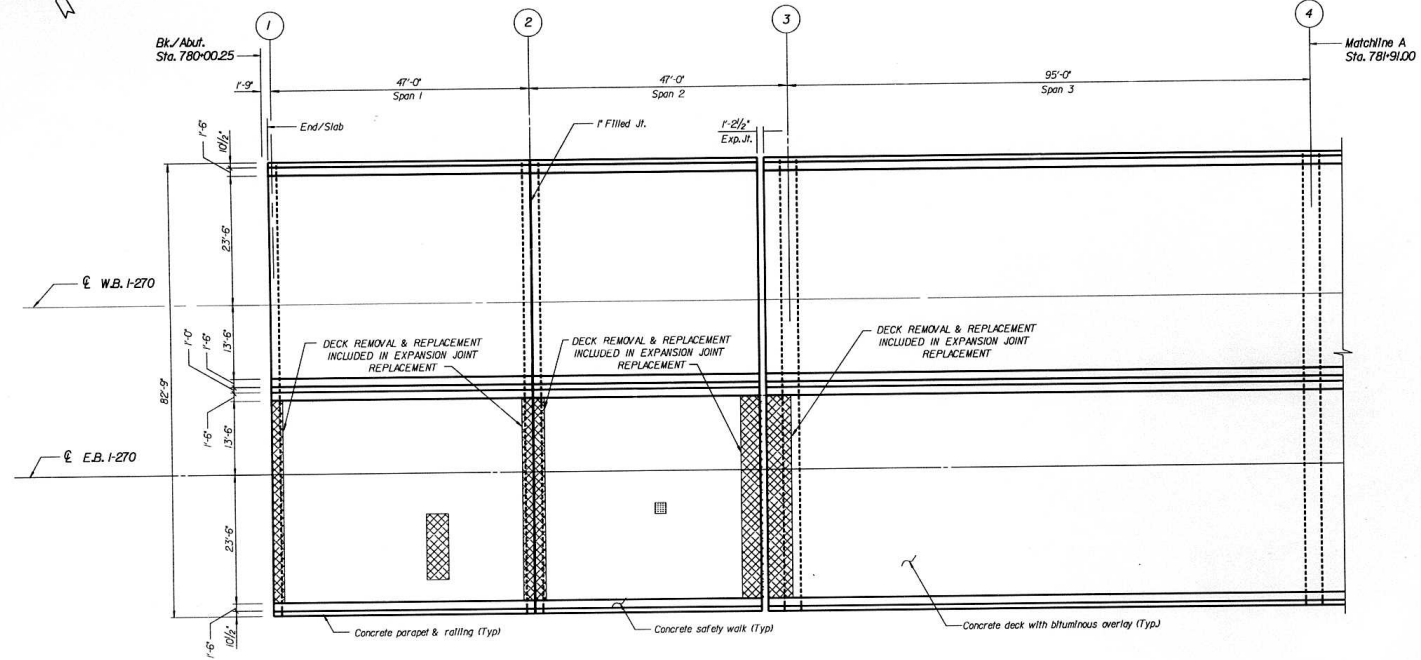
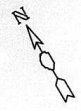
MAINTENANCE OF TRAFFIC
AFTERNOON TRAFFIC

ILLINOIS DEPARTMENT OF TRANSPORTATION
 MAINTENANCE OF TRAFFIC - PHASE II, STAGE II
 EASTBOUND LANES CONSTRUCTION
 FAI-270 OVER THE MISSISSIPPI RIVER
 EASTBOUND BRIDGE REPAIR
 SECTION 60B-1-3
 MADISON COUNTY
 STRUCTURE NUMBER 060-0035

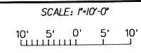
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CHECKED	DM
DRAWN	CD
CHECKED	JN

ab alfred benesch & company
 CONSULTING ENGINEERS
 303 NORTH MICHIGAN AVENUE, CHICAGO, ILLINOIS 60601
 JOB NO. 3071

DATE 1995



DECK PLAN: SPANS 1, 2 & 3



BILL OF MATERIAL			
SPAN	DECK SLAB REMOVAL (PARTIAL)	DECK SLAB REPAIR (FULL-DEPTH TYPE 1)	DECK SLAB REPAIR (FULL-DEPTH TYPE 2)
	(SQ. YD.)	(SQ. YD.)	(SQ. YD.)
1	0	0	5.33
2	0.44	0	0
3	0	0	0

NOTE: DECK REPAIRS ARE ESTIMATED, ACTUAL REPAIR LOCATIONS SHALL BE SHOWN BY THE FIELD ENGINEER FOR AS-BUILT PLANS.

ENTECH ENGINEERING, INC.	
ANALYSIS	JLL/GJW
CHECKED	JLL
DRAWN	GJW
CHECKED	JLL

David Mason & Assoc.
688 South Vandeventer
St. Louis, Mo. 63108

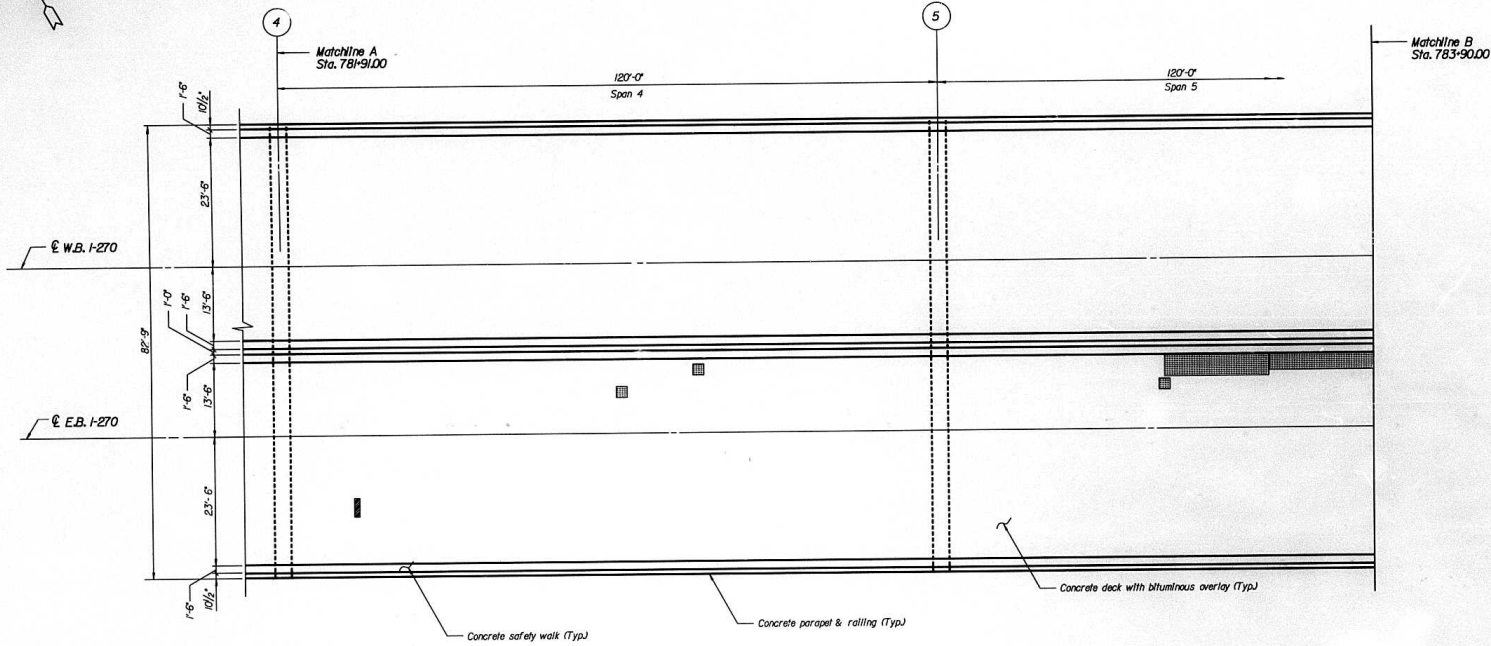
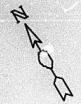


alfred benesch & company
CONSULTING ENGINEERS
305 NORTH MICHIGAN AVENUE, CHICAGO, ILLINOIS 60601
JOB NO. 3071

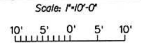
ILLINOIS DEPARTMENT OF TRANSPORTATION
DECK PLAN: SPANS 1, 2 & 3
MISSISSIPPI RIVER BRIDGE
FA-270 OVER THE MISSISSIPPI RIVER
EASTBOUND BRIDGE REPAIR
SECTION 60B-1-3
MADISON COUNTY
STRUCTURE NUMBER 060-0035

DATE 1995

ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-270	*	MADISON	146	348
STA.		TO STA.		
F.A.I.W.A. REGION		ILLINOIS	PROJECT	
#60B-1-3		SHT. 9 OF 64		



DECK PLAN: SPANS 4 & PART SPAN 5



SPAN	BILL OF MATERIAL		
	DECK SLAB REMOVAL (PARTIAL)	DECK SLAB REPAIR (FULL-DEPTH TYPE 1)	DECK SLAB REPAIR (FULL-DEPTH TYPE 2)
	(SQ. YD.)	(SQ. YD.)	(SQ. YD.)
4	0.89	0.44	0
5 THIS SHEET	15.67	0	0

ENTECH ENGINEERING, INC.	
ANALYSIS	JLL/GJW
CHECKED	JLL
DRAWN	GJW
CHECKED	JLL

NOTE: DECK REPAIRS ARE ESTIMATED, ACTUAL REPAIR LOCATIONS SHALL BE SHOWN BY THE FIELD ENGINEER FOR AS-BUILT PLANS.

David Mason & Assoc.
688 South Vandeventer
St. Louis, Mo 63188

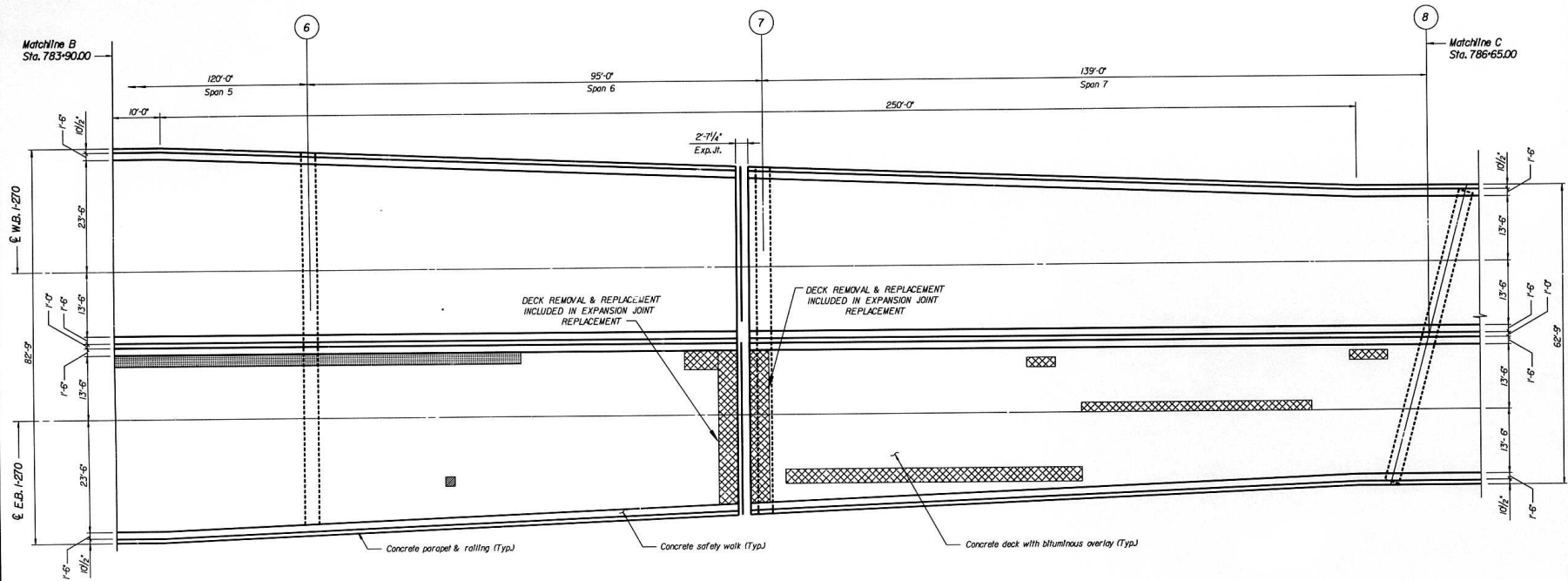
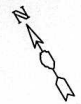


alfred benesch & company
CONSULTING ENGINEERS
305 NORTH MICHIGAN AVENUE, CHICAGO, ILLINOIS 60601
JOB NO. 3011

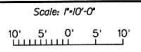
ILLINOIS DEPARTMENT OF TRANSPORTATION
DECK PLAN: SPANS 4 & PART SPAN 5
MISSISSIPPI RIVER BRIDGE
FAI-270 OVER THE MISSISSIPPI RIVER
EASTBOUND BRIDGE REPAIR
SECTION 60B-1-3
MADISON COUNTY
STRUCTURE NUMBER 060-0035

DATE 1995

ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-270	*	MADISON	# 8	349
STA.	TO STA.			
F.H.W.A. REGION	ILLINOIS	PROJECT		
*60B-1-3			SHT. 10 OF 64	



DECK PLAN: PART SPAN 5 & SPANS 6 & 7



SPAN	BILL OF MATERIAL		
	DECK SLAB REMOVAL (PARTIAL)	DECK SLAB REPAIR (FULL-DEPTH TYPE 1)	DECK SLAB REPAIR (FULL-DEPTH TYPE 2)
	(SQ. YD.)	(SQ. YD.)	(SQ. YD.)
5	13.67	0	0
THIS SHEET			
6	0	0.22	3.1
7	0	0	35.3

NOTE: DECK REPAIRS ARE ESTIMATED, ACTUAL REPAIR LOCATIONS SHALL BE SHOWN BY THE FIELD ENGINEER FOR AS-BUILT PLANS.

ENTECH ENGINEERING, INC.	
ANALYSIS	JLL/GJW
CHECKED	JLL
DRAWN	GJW
CHECKED	JLL

David Mason & Assoc.
880 South Vandeventer
St. Louis, Mo. 63108

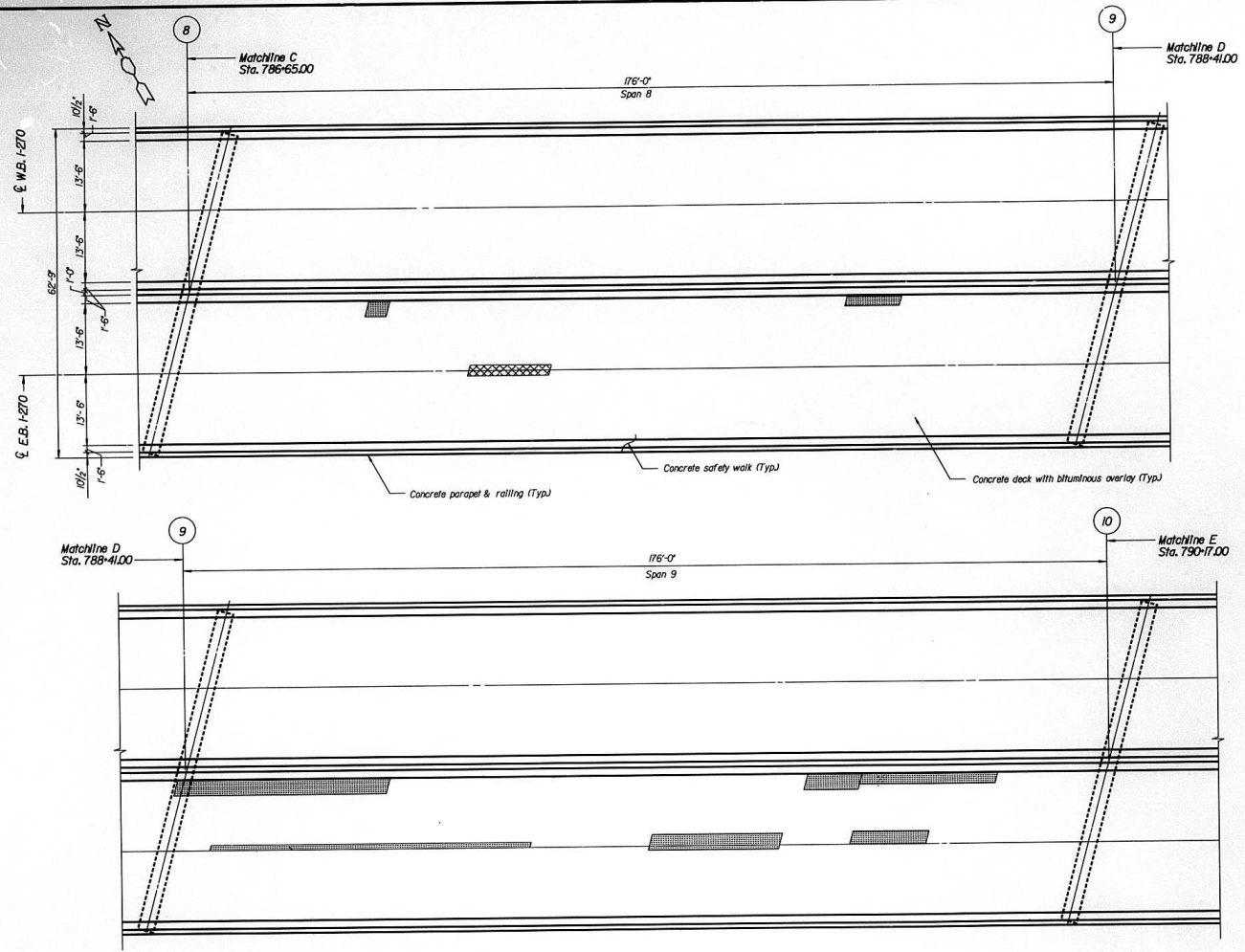


alfred benesch & company
CONSULTING ENGINEERS
200 NORTH MICHIGAN AVENUE, CHICAGO, ILLINOIS 60601
JOB NO. 3011

ILLINOIS DEPARTMENT OF TRANSPORTATION
DECK PLAN: PART SPAN 5 & SPANS 6 & 7
MISSISSIPPI RIVER BRIDGE
FAI-270 OVER THE MISSISSIPPI RIVER
EASTBOUND BRIDGE REPAIR
SECTION 60B-1-3
MADISON COUNTY
STRUCTURE NUMBER 060-0035

DATE 1995

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-270	*	MADISON	4#8	350
STA.	TO STA.			
F.H.W.A. REGION	ILLNOIS	PROJECT		
*60B-I-3			SHT. 11 OF 64	



DECK PLAN: SPANS 8 & 9

Scale: 1"=10'-0"
 10' 5' 0' 5' 10'

NOTE: DECK REPAIRS ARE ESTIMATED, ACTUAL REPAIR LOCATIONS SHALL BE SHOWN BY THE FIELD ENGINEER FOR AS-BUILT PLANS.

BILL OF MATERIAL			
SPAN	DECK SLAB REMOVAL (PARTIAL)	DECK SLAB REPAIR (FULL-DEPTH TYPE 1)	DECK SLAB REPAIR (FULL-DEPTH TYPE 2)
	(SQ. YD.)	(SQ. YD.)	(SQ. YD.)
8	3.55	0	3.33
9	40.1	0	0

ENTECH ENGINEERING, INC.	
ANALYSIS	JLL/GJW
CHECKED	JLL
DRAWN	GJW
CHECKED	JLL

David Mason & Assoc.
 688 South Vandeventer
 St. Louis, Mo 63188

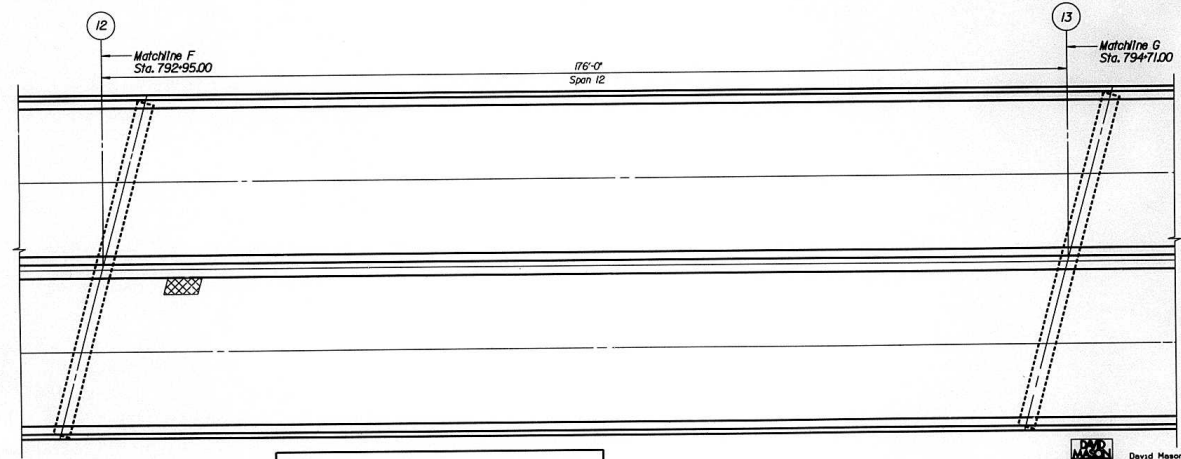
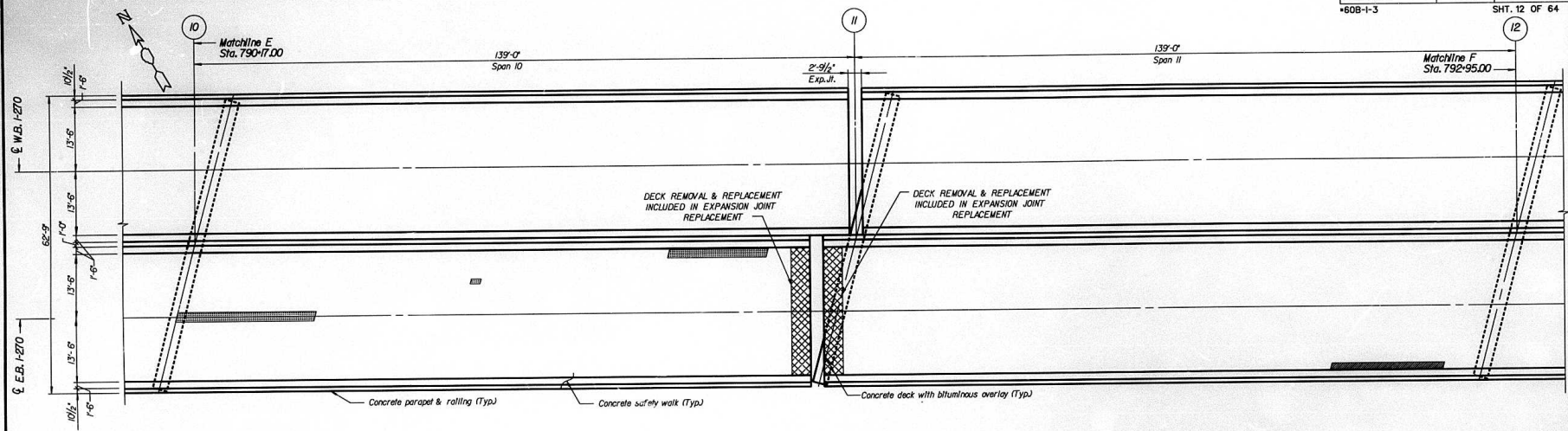


alfred benesch & company
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 303 NORTH MICHIGAN AVENUE, CHICAGO, ILLINOIS 60601
 JOB NO. 3011

ILLINOIS DEPARTMENT OF TRANSPORTATION
 DECK PLAN: SPANS 8 & 9
 MISSISSIPPI RIVER BRIDGE
 FAI-270 OVER THE MISSISSIPPI RIVER
 EASTBOUND BRIDGE REPAIR
 SECTION 60B-I-3
 MADISON COUNTY
 STRUCTURE NUMBER 060-0035

DATE 1995

ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-270	*	MADISON	448	351
STA.	TO STA.			
F.H.W.A. REGION	ILLINOIS		PROJECT	
60B-I-3			SHT. 12 OF 64	



DECK PLAN: SPANS 10, 11 & 12

Scale: 1"=10'-0"
 10' 5' 0' 5' 10'

NOTE: DECK REPAIRS ARE ESTIMATED, ACTUAL REPAIR LOCATIONS SHALL BE SHOWN BY THE FIELD ENGINEER FOR AS-BUILT PLANS.

SPAN	BILL OF MATERIAL		
	DECK SLAB REMOVAL (PARTIAL)	DECK SLAB REPAIR (FULL-DEPTH TYPE 1)	DECK SLAB REPAIR (FULL-DEPTH TYPE 2)
	(SQ. YD.)	(SQ. YD.)	(SQ. YD.)
10	10.1	0	0
11	0	0	2.55
12	0	0	2.0

David Mason & Assoc.
 608 South Vandeventer
 St. Louis, Mo 63108



alfred benesch & company
 CONSULTING ENGINEERS
 300 NORTH MICHIGAN AVENUE, CHICAGO, ILLINOIS 60601
 JOB NO. 3011

ILLINOIS DEPARTMENT OF TRANSPORTATION
 DECK PLAN: SPANS 10, 11 & 12
 MISSISSIPPI RIVER BRIDGE
 FAI-270 OVER THE MISSISSIPPI RIVER
 EASTBOUND BRIDGE REPAIR
 SECTION 60B-I-3
 MADISON COUNTY
 STRUCTURE NUMBER 060-0035

DATE 1995

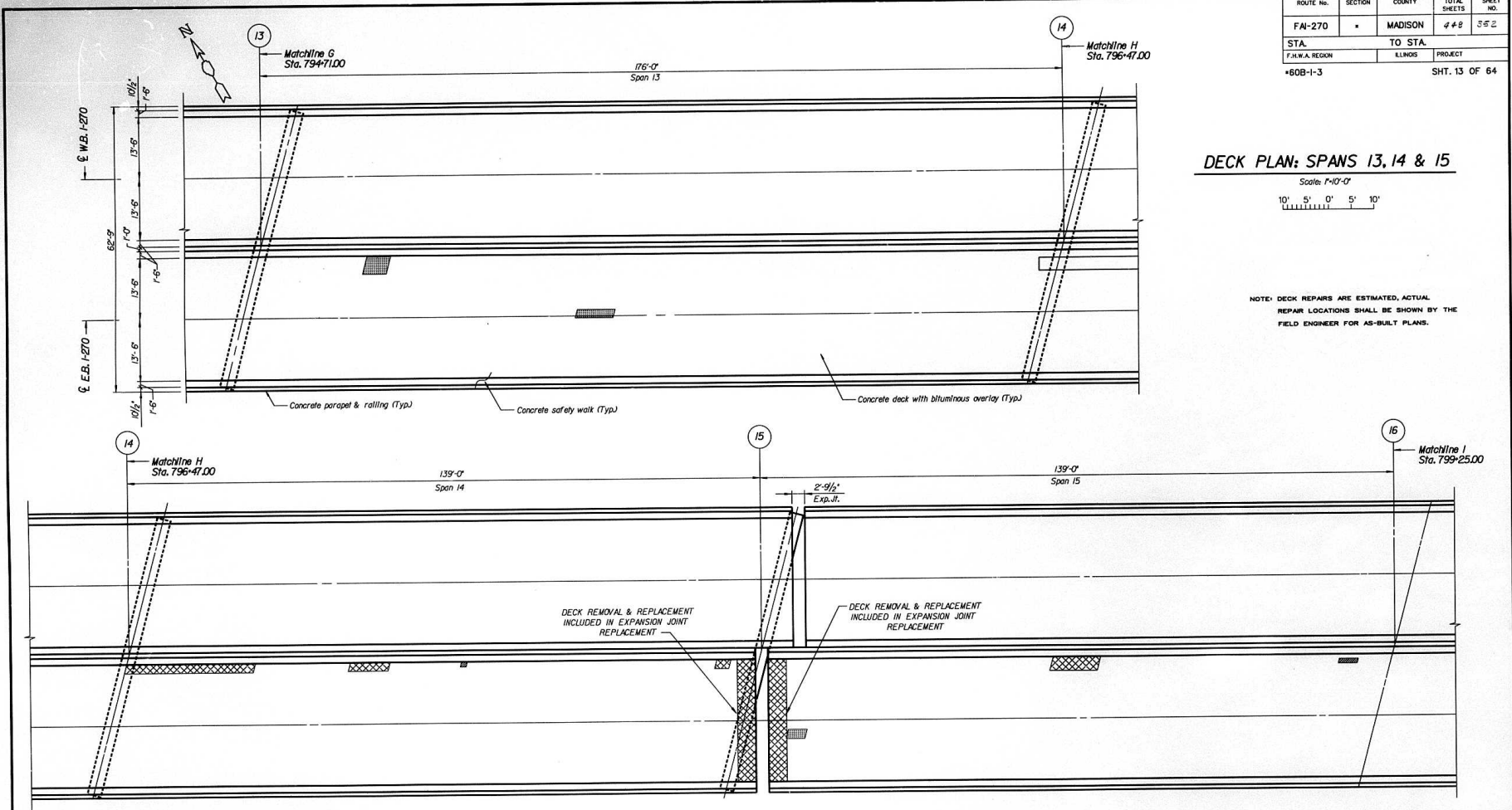
ENTECH ENGINEERING, INC.	
ANALYSIS	JLL/GJW
CHECKED	JLL
DRAWN	GJW
CHECKED	JLL

ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-270	*	MADISON	7 # 2	352
STA.	TO STA.			
F.H.W.A. REGION	ILLNOIS	PROJECT		
*60B-1-3			SHT. 13 OF 64	

DECK PLAN: SPANS 13, 14 & 15

Scale: 1"=10'-0"
 10' 5' 0' 5' 10'

NOTE: DECK REPAIRS ARE ESTIMATED. ACTUAL REPAIR LOCATIONS SHALL BE SHOWN BY THE FIELD ENGINEER FOR AS-BUILT PLANS.



SPAN	BILL OF MATERIAL		
	DECK SLAB REMOVAL (PARTIAL)	DECK SLAB REPAIR (FULL-DEPTH TYPE 1)	DECK SLAB REPAIR (FULL-DEPTH TYPE 2)
	(SQ. YD.)	(SQ. YD.)	(SQ. YD.)
13	4	0	0
14	0	0.11	8.67
15	0.89	0.44	3.33

ENTECH ENGINEERING, INC.	
ANALYSIS	JLL/GJW
CHECKED	JLL
DRAWN	GJW
CHECKED	JLL

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 688 South Vandeventer
 St. Louis, Mo 63108

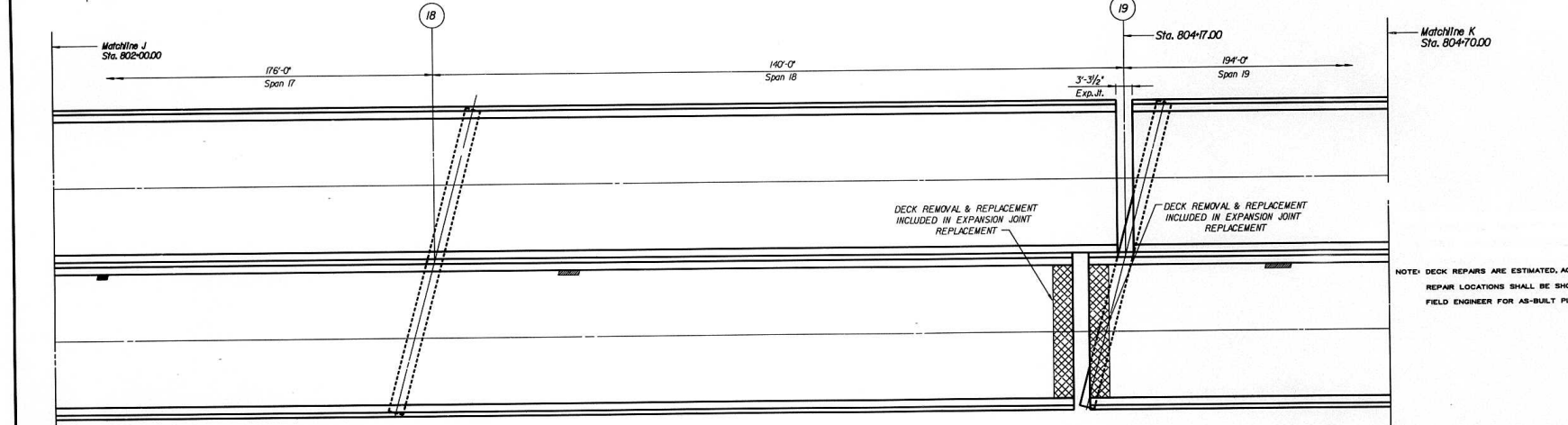
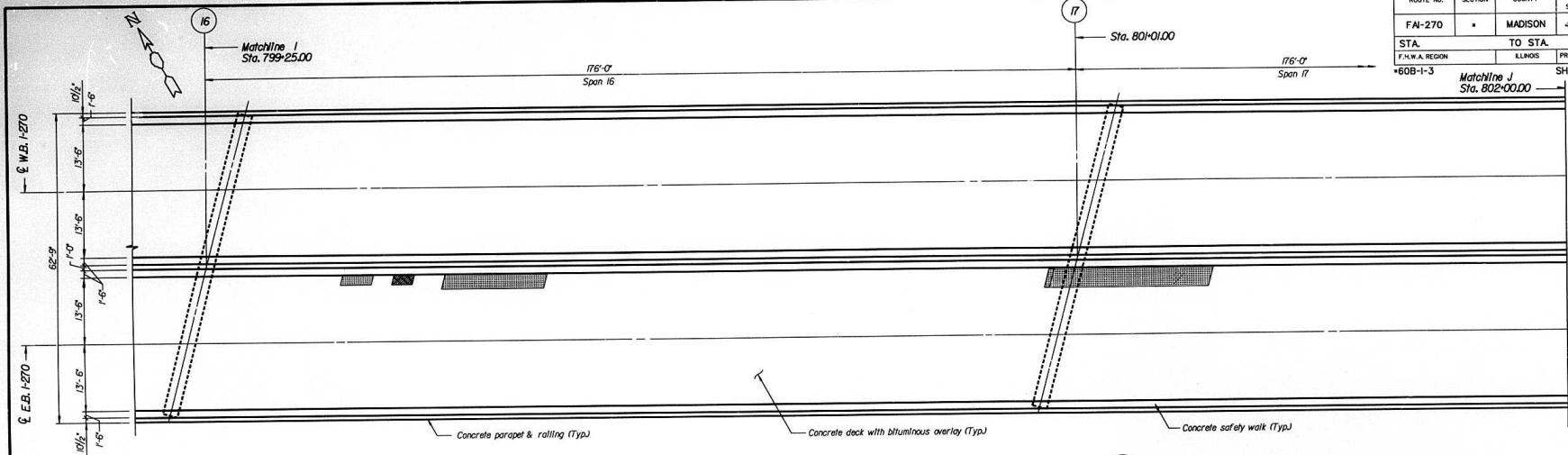


alfred benesch & company
 CONSULTING ENGINEERS
 305 NORTH MICHIGAN AVENUE, CHICAGO, ILLINOIS 60601
 JOB NO. 3011

ILLINOIS DEPARTMENT OF TRANSPORTATION
 DECK PLAN: SPANS 13, 14 & 15
 MISSISSIPPI RIVER BRIDGE
 FAI-270 OVER THE MISSISSIPPI RIVER
 EASTBOUND BRIDGE REPAIR
 SECTION 60B-1-3
 MADISON COUNTY
 STRUCTURE NUMBER 060-0035

DATE 1995

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-270		MADISON	248	253
STA.		TO STA.		
F.H.W.A. REGION		ILLINOIS		PROJECT
*60B-I-3		Matchline J Sta. 802+00.00		SHT. 14 OF 64



NOTE: DECK REPAIRS ARE ESTIMATED, ACTUAL REPAIR LOCATIONS SHALL BE SHOWN BY THE FIELD ENGINEER FOR AS-BUILT PLANS.

DECK PLAN: SPANS 16, 17, 18 & PART SPAN 19
Scale: 1/10"=1'-0"

SPAN	BILL OF MATERIAL		
	DECK SLAB REMOVAL (PARTIAL)	DECK SLAB REPAIR (FULL-DEPTH TYPE 1)	DECK SLAB REPAIR (FULL-DEPTH TYPE 2)
	(SQ. YD.)	(SQ. YD.)	(SQ. YD.)
16	9.78	0	0
17	12.44	0.22	0
18	0	0.44	0
19	0	0.55	0

ENTECH ENGINEERING, INC.	
ANALYSIS	GJW
CHECKED	JLL
DRAWN	GJW
CHECKED	JLL

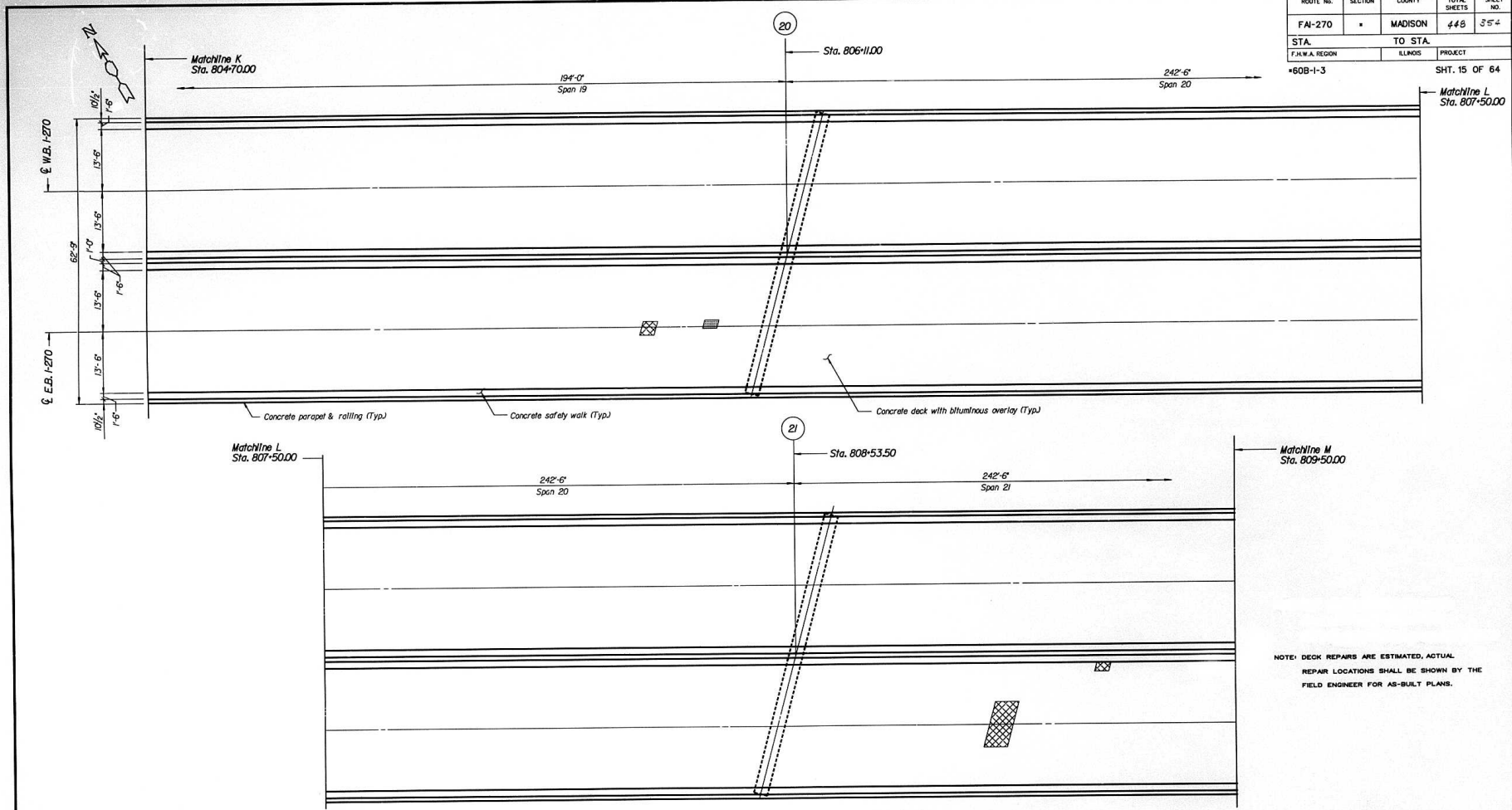
David Mason & Assoc.
880 South Vandeventer
St. Louis, Mo 63108



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CONSULTING ENGINEERS
305 NORTH MICHIGAN AVENUE, CHICAGO, ILLINOIS 60601
JOB NO. 3011

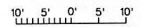
ILLINOIS DEPARTMENT OF TRANSPORTATION
DECK PLAN: SPANS 16, 17, 18 & PART SPAN 19
MISSISSIPPI RIVER BRIDGE
FAI-270 OVER THE MISSISSIPPI RIVER
EAST BOUND BRIDGE REPAIR
SECTION 60B-I-3
MADISON COUNTY
STRUCTURE NUMBER 060-0035
DATE 1995

ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-270		MADISON	#48	354
STA.	TO STA.			
F.J.N.W.A. REGION	ILLINOIS		PROJECT	
*60B-1-3			SHT. 15 OF 64	



NOTE: DECK REPAIRS ARE ESTIMATED, ACTUAL REPAIR LOCATIONS SHALL BE SHOWN BY THE FIELD ENGINEER FOR AS-BUILT PLANS.

DECK PLAN: SPANS 19, 20, & 21



Scale: 1"=10'-0"

SPAN	BILL OF MATERIAL		
	DECK SLAB REMOVAL (PARTIAL)	DECK SLAB REPAIR (FULL-DEPTH TYPE 1)	DECK SLAB REPAIR (FULL-DEPTH TYPE 2)
	(SQ. YD.)	(SQ. YD.)	(SQ. YD.)
19	0.67	0	1.0
THIS SHEET			
20	0	0	0
THIS SHEET			
21	0	0	6.22
THIS SHEET			

ENTECH ENGINEERING, INC.	
ANALYSIS	ALJ/GJW
CHECKED	JLL
DRAWN	GJW
CHECKED	JLL

David Mason & Assoc.
888 South Vandeventer
St. Louis, Mo 63108



alfred benesch & company
CONSULTING ENGINEERS
300 NORTH MICHIGAN AVENUE, CHICAGO, ILLINOIS 60601
JOB NO. 3011

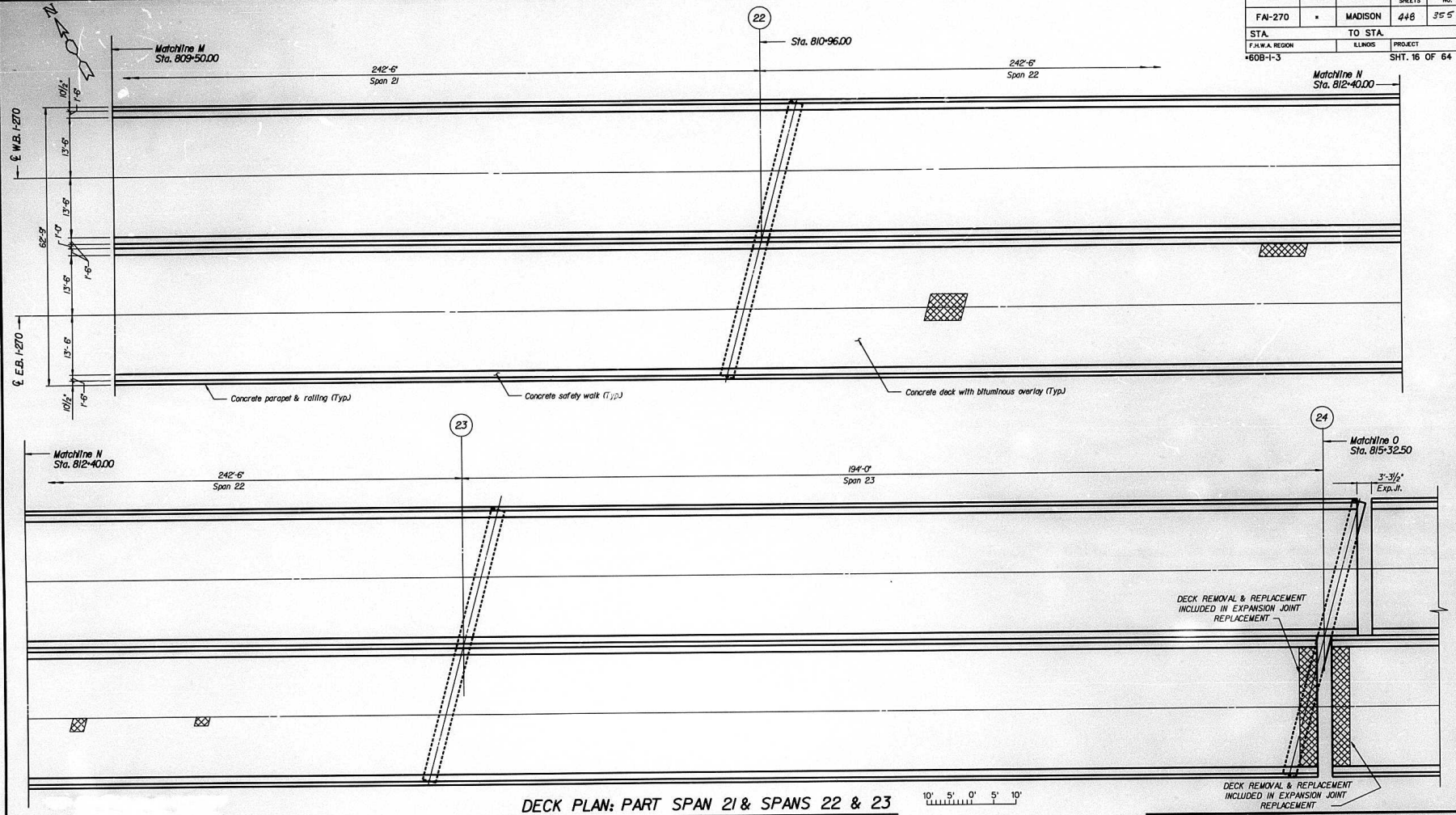
ILLINOIS DEPARTMENT OF TRANSPORTATION

DECK PLAN: SPANS 19, 20 & 21
MISSISSIPPI RIVER BRIDGE

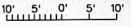
FAI-270 OVER THE MISSISSIPPI RIVER
EASTBOUND BRIDGE REPAIR
SECTION 60B-1-3
MADISON COUNTY
STRUCTURE NUMBER 060-0035

DATE 1995

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-270	*	MADISON	448	355
STA. TO STA.		PROJECT		
F.H.W.A. REGION		ILLINOIS		
60B-I-3		SHT. 16 OF 64		



DECK PLAN: PART SPAN 21 & SPANS 22 & 23



Scale: 1"=10'-0"

NOTE: DECK REPAIRS ARE ESTIMATED, ACTUAL REPAIR LOCATIONS SHALL BE SHOWN BY THE FIELD ENGINEER FOR AS-BUILT PLANS.

ENTECH ENGINEERING, INC.

ANALYSIS	JLL/GJW
CHECKED	JLL
DRAWN	CJW
CHECKED	JLL

SPAN	BILL OF MATERIAL		
	DECK SLAB REMOVAL (PARTIAL)	DECK SLAB REPAIR (FULL-DEPTH TYPE 1)	DECK SLAB REPAIR (FULL-DEPTH TYPE 2)
	(SQ. YD.)	(SQ. YD.)	(SQ. YD.)
21	0	0	0
THIS SHEET	0	0	10.33
22	0	0	0
23	0	0	0

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808 South Vandeventer
St. Louis, Mo 63188

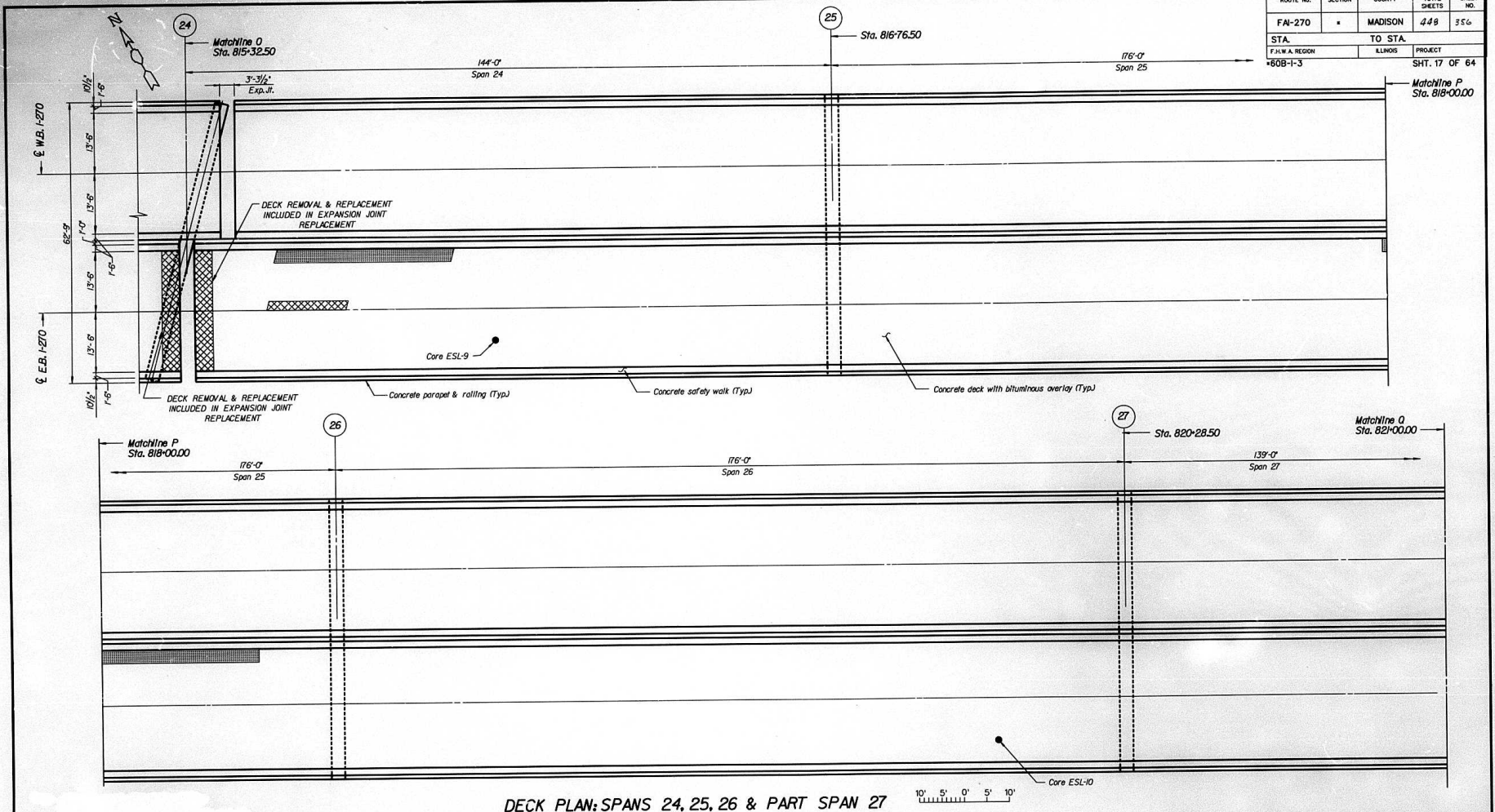


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CONSULTING ENGINEERS
300 NORTH MICHIGAN AVENUE, CHICAGO, ILLINOIS 60601
JOB NO. 3011

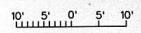
ILLINOIS DEPARTMENT OF TRANSPORTATION
DECK PLAN: PART SPAN 21 & SPANS 22 & 23
MISSISSIPPI RIVER BRIDGE
FAI-270 OVER THE MISSISSIPPI RIVER
EASTBOUND BRIDGE REPAIR
SECTION 60B-I-3
MADISON COUNTY
STRUCTURE NUMBER 060-0035

DATE 1995

ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-270	*	MADISON	448	356
STA.		TO STA.		
F.H.W.A. REGION		ILLINOIS	PROJECT	
*60B-1-3		SHT. 17 OF 64		



DECK PLAN: SPANS 24, 25, 26 & PART SPAN 27



NOTE: DECK REPAIRS ARE ESTIMATED. ACTUAL REPAIR LOCATIONS SHALL BE SHOWN BY THE FIELD ENGINEER FOR AS-BUILT PLANS.

SPAN	BILL OF MATERIAL		
	DECK SLAB REMOVAL (PARTIAL)	DECK SLAB REPAIR (FULL-DEPTH TYPE 1)	DECK SLAB REPAIR (FULL-DEPTH TYPE 2)
	(SQ. YD.)	(SQ. YD.)	(SQ. YD.)
24	12.67	0	3.78
25	12	0	0
26	0	0	0
27	0	0	0

Scale: 1"=10'-0"

ENTECH ENGINEERING, INC.	
ANALYSIS	JLL/GJW
CHECKED	JLL
DRAWN	GJW
CHECKED	JLL

David Mason & Assoc.
888 South Vandeventer
St. Louis, Mo 63108

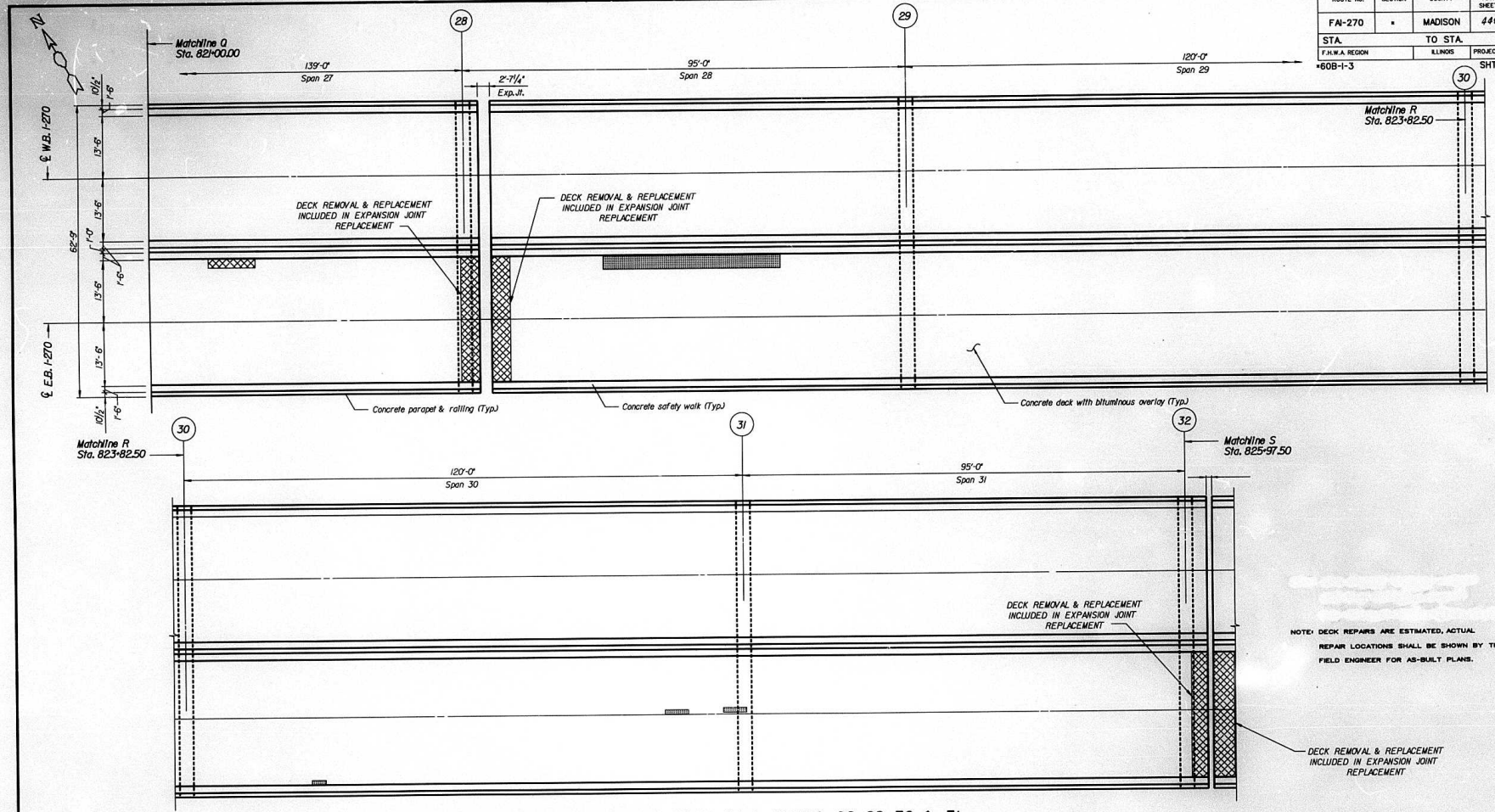


alfred benesch & company
CONSULTING ENGINEERS
305 NORTH MICHIGAN AVENUE, CHICAGO, ILLINOIS 60601
JOB NO. 5011

ILLINOIS DEPARTMENT OF TRANSPORTATION
DECK PLAN: SPANS 24, 25, 26 & PART SPAN 27
MISSISSIPPI RIVER BRIDGE
FAI-270 OVER THE MISSISSIPPI RIVER
EASTBOUND BRIDGE REPAIR
SECTION 60B-1-3
MADISON COUNTY
STRUCTURE NUMBER 060-0035

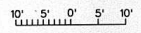
DATE 1995

ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-270	*	MADISON	448	357
STA.	TO STA.		PROJECT	
F.A.I.W.A. REGION	ILLINOIS		PROJECT	
60B-1-3			SHT. 18 OF 64	



NOTE: DECK REPAIRS ARE ESTIMATED, ACTUAL REPAIR LOCATIONS SHALL BE SHOWN BY THE FIELD ENGINEER FOR AS-BUILT PLANS.

DECK PLAN: PART SPAN 27 & SPANS 28, 29, 30 & 31



Scale: 1"=10'-0"

SPAN	BILL OF MATERIAL		
	DECK SLAB REMOVAL (PARTIAL)	DECK SLAB REPAIR (FULL-DEPTH TYPE 1)	DECK SLAB REPAIR (FULL-DEPTH TYPE 2)
	(SQ. YD.)	(SQ. YD.)	(SQ. YD.)
27	0	0	2.22
THIS SHEET			
28	12.67	0	0
29	0	0	0
30	1.44	0	0
31	0	0	0

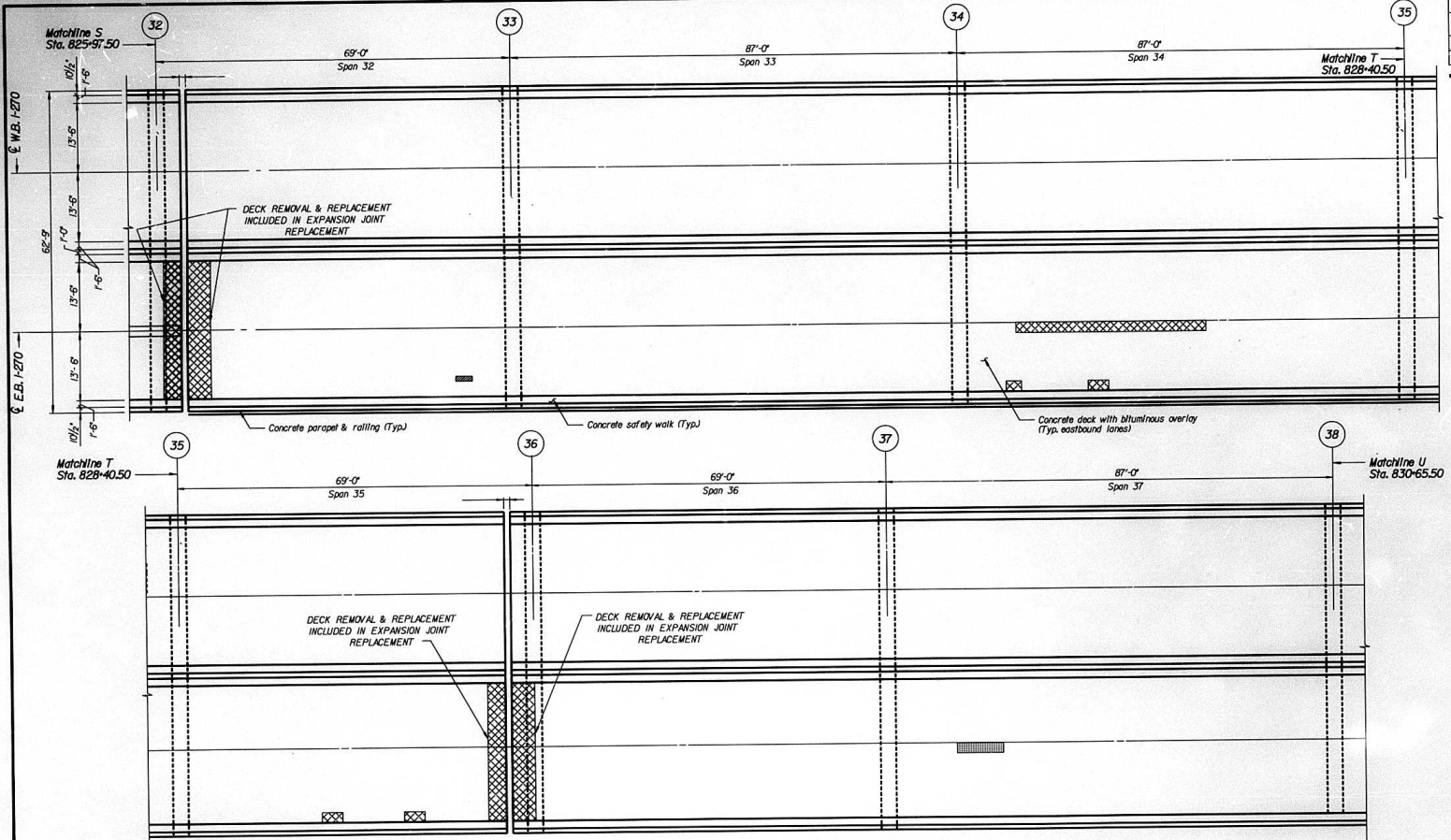
ENTECH ENGINEERING, INC.	
ANALYSIS	JLL/GJW
CHECKED	JLL
DRAWN	GJW
CHECKED	JLL

David Mason & Assoc.
888 South Vandeventer
St. Louis, Mo 63108

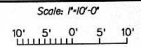


alfred benesch & company
CONSULTING ENGINEERS
305 NORTH MICHIGAN AVENUE, CHICAGO, ILLINOIS 60611
JOB NO. 3011

ILLINOIS DEPARTMENT OF TRANSPORTATION
DECK PLAN: PART SPAN 27 & SPANS 28, 29, 30 & 31
MISSISSIPPI RIVER BRIDGE
FAI-270 OVER THE MISSISSIPPI RIVER
EASTBOUND BRIDGE REPAIR
SECTION 60B-1-3
MADISON COUNTY
STRUCTURE NUMBER 060-0035
DATE 1995



DECK PLAN: SPANS 32, 33, 34, 35, 36 & 37



SPAN	BILL OF MATERIAL		
	DECK SLAB REMOVAL (PARTIAL)	DECK SLAB REPAIR (FULL-DEPTH TYPE 1)	DECK SLAB REPAIR (FULL-DEPTH TYPE 2)
	(SQ. YD.)	(SQ. YD.)	(SQ. YD.)
32	0	0.33	0
33	0	0	0
34	0	0	9.78
35	0	0	0
36	0	0	0
37	2	0	0

NOTE: DECK REPAIRS ARE ESTIMATED, ACTUAL REPAIR LOCATIONS SHALL BE SHOWN BY THE FIELD ENGINEER FOR AS-BUILT PLANS.

ENTECH ENGINEERING, INC.	
ANALYSIS	JLL/GJW
CHECKED	JLL
DRAWN	GJW
CHECKED	JLL

David Mason & Assoc.
888 South Vandeventer
St. Louis, Mo 63188

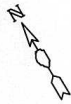
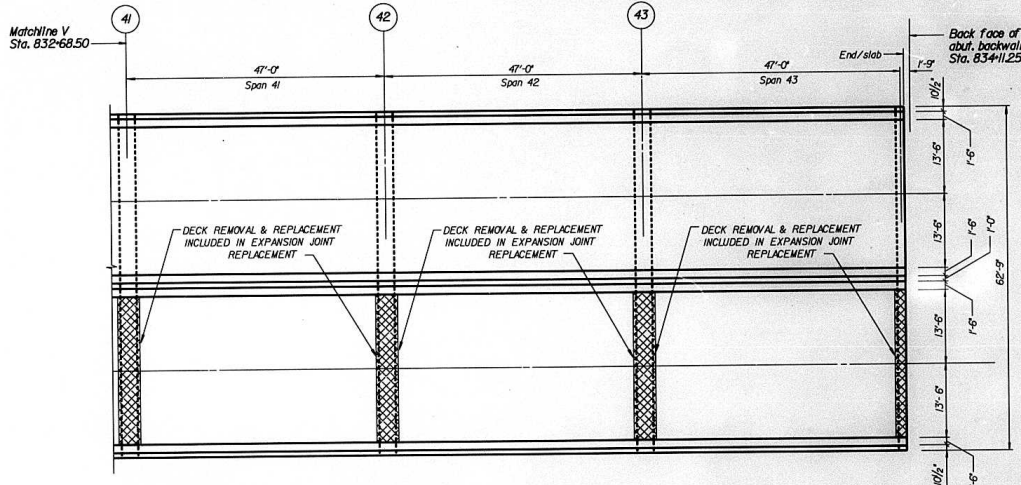
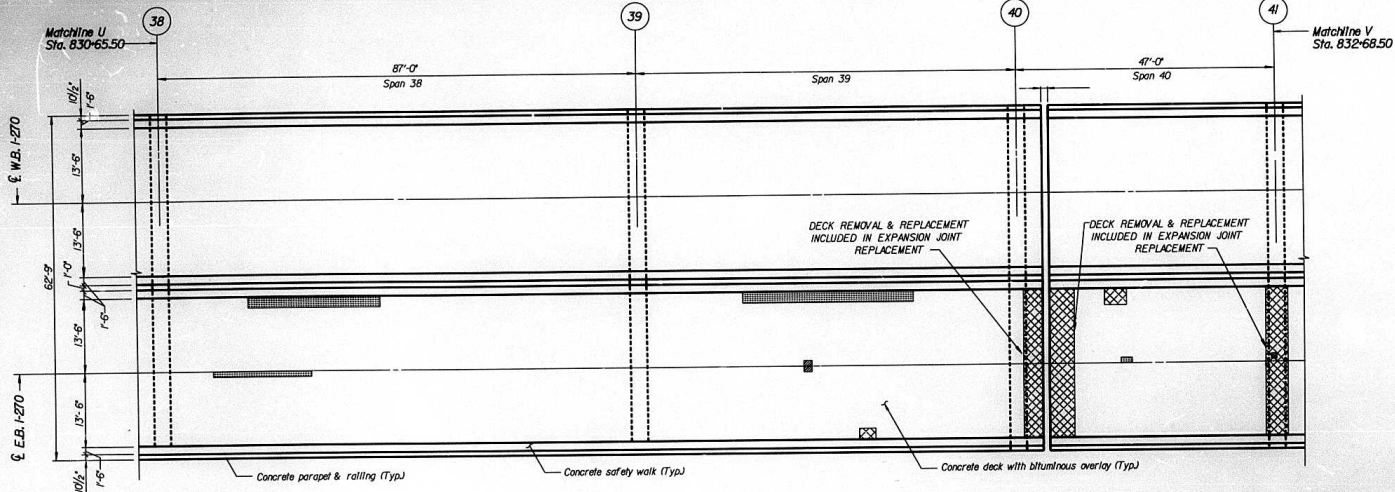


alfred benesch & company
CONSULTING ENGINEERS
300 NORTH MICHIGAN AVENUE, CHICAGO, ILLINOIS 60601
JOB NO. 3011

ILLINOIS DEPARTMENT OF TRANSPORTATION
DECK PLAN: SPANS 32, 33, 34, 35, 36 & 37
MISSISSIPPI RIVER BRIDGE
FAI-270 OVER THE MISSISSIPPI RIVER
EASTBOUND BRIDGE REPAIR
SECTION 60B-1-3
MADISON COUNTY
STRUCTURE NUMBER 060-0035

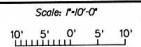
DATE 1995

ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA-270	*	MADISON	448	359
STA.	TO STA.			
FAHWA REGION	ILLINOIS PROJECT			
*60B-1-3	SHT. 20 OF 64			



BILL OF MATERIAL			
SPAN	DECK SLAB REMOVAL (PARTIAL)	DECK SLAB REPAIR (FULL-DEPTH TYPE 1)	DECK SLAB REPAIR (FULL-DEPTH TYPE 2)
	(SQ. YD.)	(SQ. YD.)	(SQ. YD.)
38	7.33	0	0
39	6.89	0.22	0.67
40	0.22	0	1.33
41	0	0	0
42	0	0	0
43	0	0	0

DECK PLAN: SPANS 38, 39, 40, 41, 42 & 43



NOTE: DECK REPAIRS ARE ESTIMATED, ACTUAL REPAIR LOCATIONS SHALL BE SHOWN BY THE FIELD ENGINEER FOR AS-BUILT PLANS.

ENTECH ENGINEERING, INC.	
ANALYSIS	JLL/GJW
CHECKED	JLL
DRAWN	GJW
CHECKED	JLL

David Mason & Assoc.
888 South Vandeventer
St. Louis, Mo. 63108

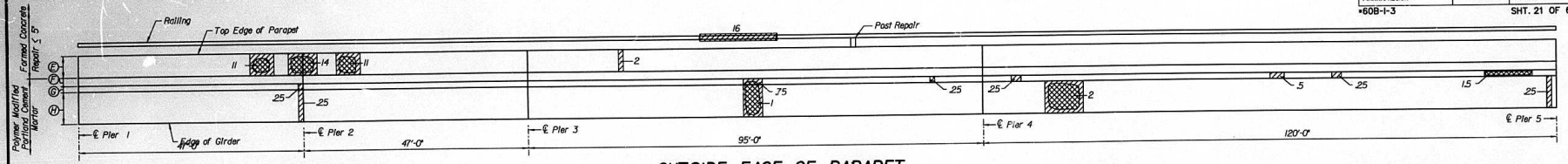


alfred benesch & company
CONSULTING ENGINEERS
200 NORTH MICHIGAN AVENUE, CHICAGO, ILLINOIS 60601
JOB NO. 3011

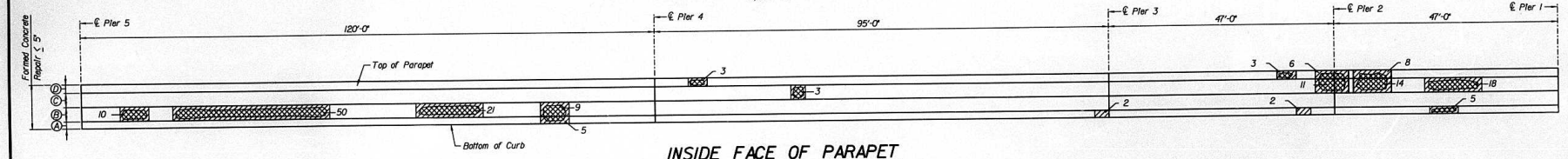
ILLINOIS DEPARTMENT OF TRANSPORTATION
DECK PLAN: SPANS 38, 39, 40, 41, 42 & 43
MISSISSIPPI RIVER BRIDGE
FA-270 OVER THE MISSISSIPPI RIVER
EASTBOND BRIDGE REPAIR
SECTION 60B-1-3
MADISON COUNTY
STRUCTURE NUMBER 060-0035

DATE 1995

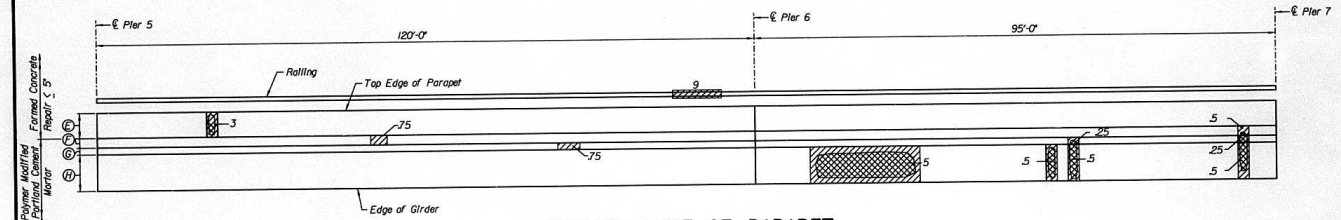
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-270	*	MADISON	448	300
STA.	TO STA.		PROJECT	
7+00.00	8+00.00		ILLINOIS REGION	
60B-1-3			SHT. 21 OF 64	



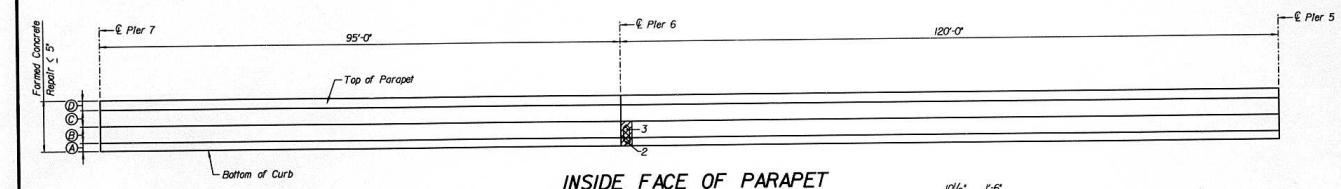
OUTSIDE FACE OF PARAPET
Spans 1-4



INSIDE FACE OF PARAPET
Spans 1-4



OUTSIDE FACE OF PARAPET
Spans 5-6

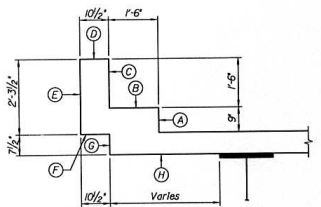


INSIDE FACE OF PARAPET
Spans 5-6

LEGEND

- Units in S.F. or C.F.
- Patch Area
- Deteriorated Area
- Units in L.F.
- Railing Repair

BILL OF MATERIAL	UNIT	QUANTITY
FORMED CONCRETE REPAIR ≤ 5'	S.F.	216
POLYMER MODIFIED PORTLAND CEMENT MORTAR	C.F.	16.25
ALUMINUM RAILING	L.F.	25
ALUMINUM RAILING POST REPAIR	EA.	1



SECTION THROUGH PARAPET



alfred benesch & company
CONSULTING ENGINEERS
205 NORTH WASHINGTON AVENUE, CHICAGO, ILLINOIS 60601
JOB NO. 3071

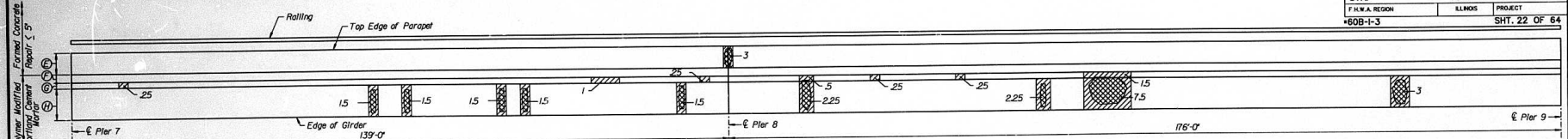
Note: Parapet repairs are estimated, actual repair locations shall be shown by the field engineer for as-built plans.
For Parapet, Overhang and Railing Repair Details, see sheet 49 of 64

ILLINOIS DEPARTMENT OF TRANSPORTATION
SOUTH PARAPET & OVERHANG: SPANS 1-6
MISSISSIPPI RIVER BRIDGE
FAI-270 OVER THE MISSISSIPPI RIVER
EASTBOUND BRIDGE REPAIR
SECTION 60B-1-3
MADISON COUNTY
STRUCTURE NUMBER 060-0035

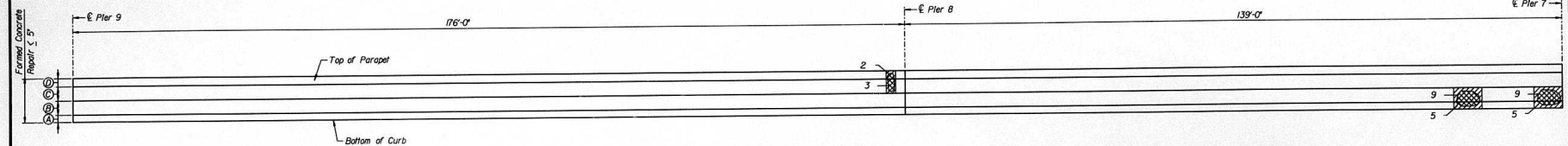
DATE 1995

DESIGNED	
CHECKED	
DRAWN	BJ
CHECKED	JH

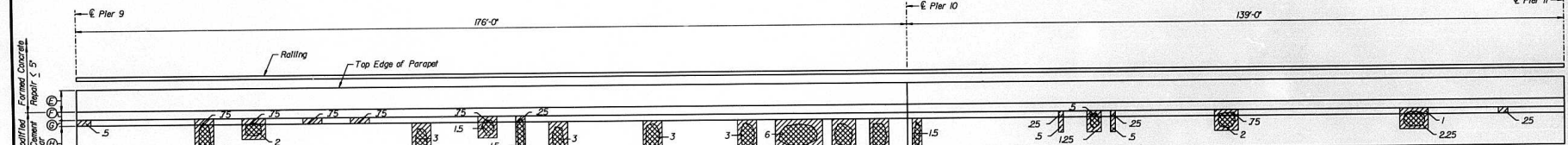
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-270		MADISON	448	361
STA.	TO STA.			
F.H.W.A. REGION	ILLINOIS	PROJECT		
*60B-1-3			SHT. 22 OF 64	



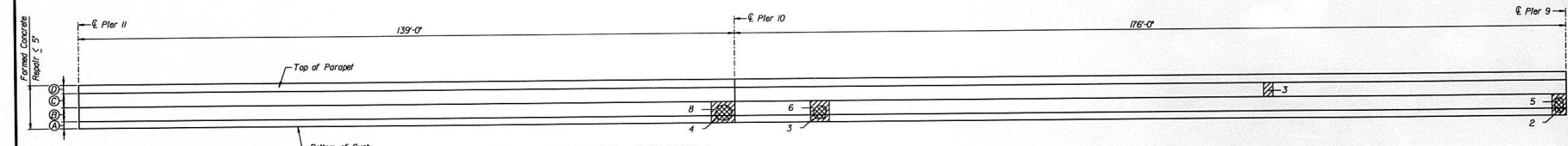
OUTSIDE FACE OF PARAPET
Spans 7-8



INSIDE FACE OF PARAPET
Spans 7-8

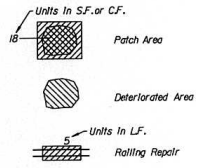


OUTSIDE FACE OF PARAPET
Spans 9-10

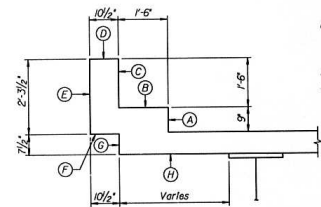


INSIDE FACE OF PARAPET
Spans 9-10

LEGEND



BILL OF MATERIAL	UNIT	QUANTITY
FORMED CONCRETE REPAIR ≤ 5'	S.F.	67
POLYMER MODIFIED PORTLAND CEMENT MORTAR	C.F.	75.5
ALUMINUM RAILING	L.F.	0
ALUMINUM RAILING POST REPAIR	EA.	0



SECTION THROUGH PARAPET

Note: Parapet repairs are estimated, actual repair locations shall be shown by the field engineer for as-built plans.
For Parapet, Overhang and Rolling Repair Details, see sheet 49 of 64



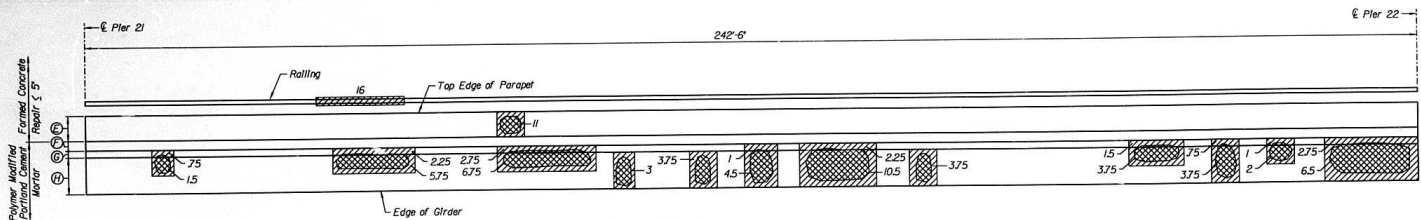
alfred benesch & company
CONSULTING ENGINEERS
300 NORTH MICHIGAN AVENUE, CHICAGO, ILLINOIS 60601
JOB NO. 3011

ILLINOIS DEPARTMENT OF TRANSPORTATION
SOUTH PARAPET & OVERHANG: SPANS 7-10
MISSISSIPPI RIVER BRIDGE
FAI-270 OVER THE MISSISSIPPI RIVER
EASTBOUND BRIDGE REPAIR
SECTION 60B-1-3
MADISON COUNTY
STRUCTURE NUMBER 060-0035

DATE 1995

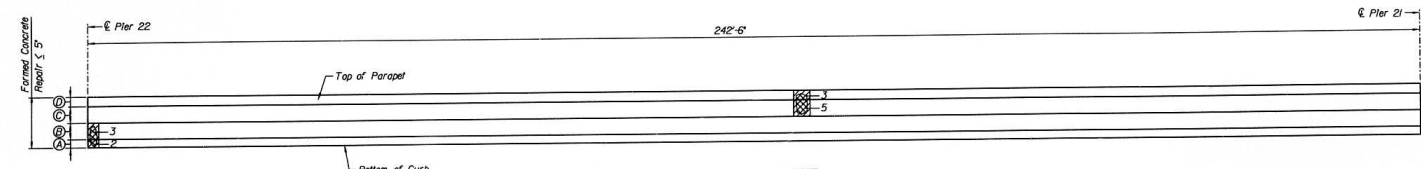
DESIGNED	
CHECKED	
DRAWN	BJ
CHECKED	JH

ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-270	*	MADISON	448	304
STA.	TO STA.			
F.H.W.A. REGION	KLINGSTROM	PROJECT		
*60B-1-3			SHT. 26 OF 64	



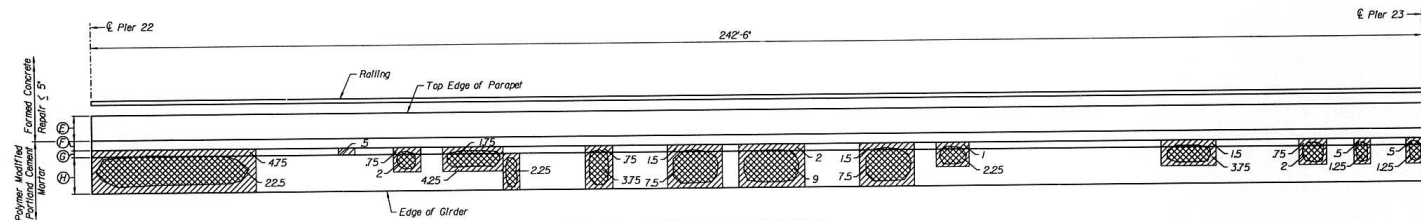
OUTSIDE FACE OF PARAPET

Span 21



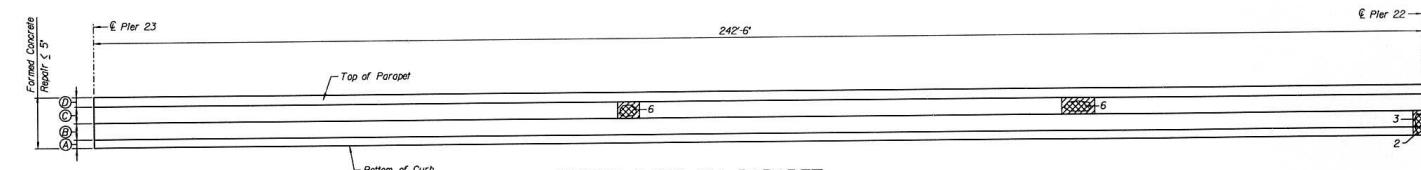
INSIDE FACE OF PARAPET

Span 21



OUTSIDE FACE OF PARAPET

Span 22



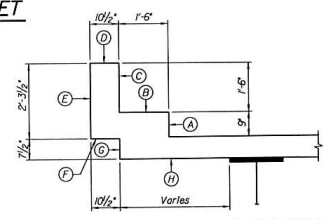
INSIDE FACE OF PARAPET

Span 22

LEGEND

- Units In SF. or CF.
 - 16 Patch Area
 - Deteriorated Area
- Units In LF.
 - 5 Railing Repair

BILL OF MATERIAL	UNIT	QUANTITY
FORMED CONCRETE REPAIR $\le 5'$	SF.	41
POLYMER MODIFIED PORTLAND CEMENT MORTAR	CF.	157.5
ALUMINUM RAILING	LF.	16
ALUMINUM RAILING POST REPAIR	EA.	0



SECTION THROUGH PARAPET

Note: Parapet repairs are estimated, actual repair locations shall be shown by the field engineer for as-built plans.
For Parapet, Overhang and Railing Repair Details, see sheet 49 of 64

ILLINOIS DEPARTMENT OF TRANSPORTATION
SOUTH PARAPET & OVERHANG: SPANS 21-22
MISSISSIPPI RIVER BRIDGE

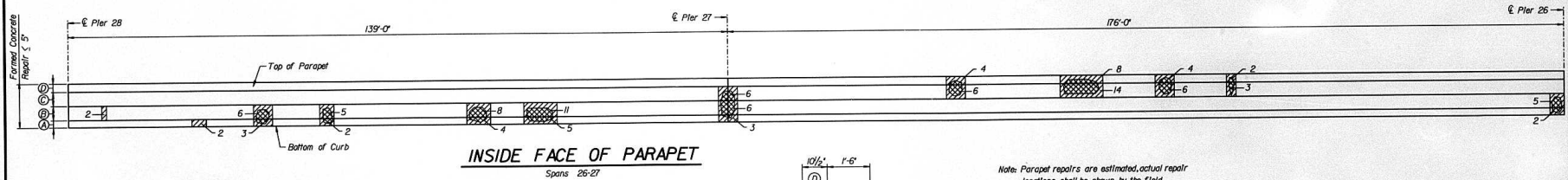
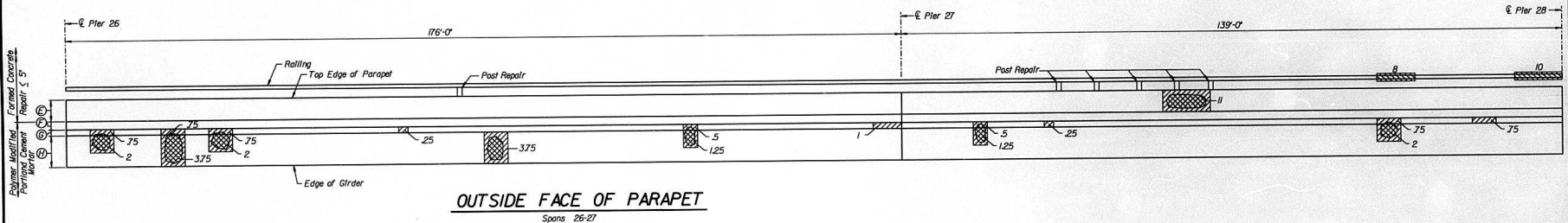
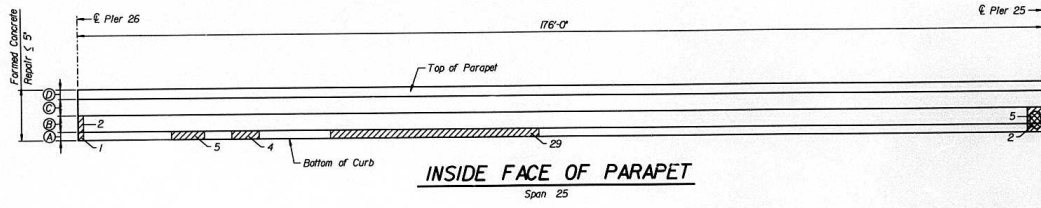
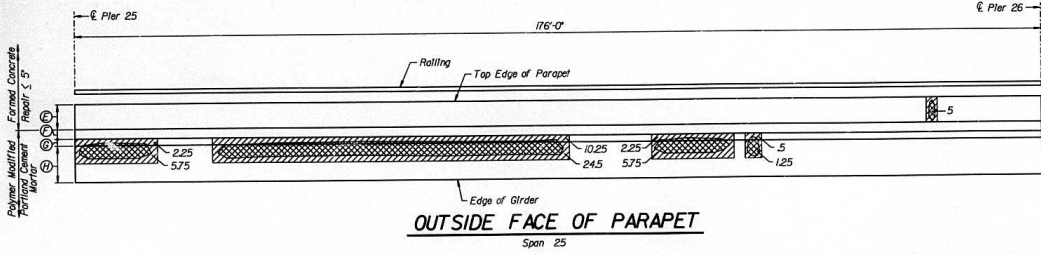
FAI-270 OVER THE MISSISSIPPI RIVER
EASTBOUND BRIDGE REPAIR
SECTION 60B-1-3
MADISON COUNTY
STRUCTURE NUMBER 060-0035

Engineering
Architecture
Construction Services
alfred benesch & company
CONSULTING ENGINEERS
200 NORTH MICHIGAN AVENUE, CHICAGO, ILLINOIS 60601
JOB NO. 3011




DATE 1995

DESIGNED	
CHECKED	
DRAWN	BJ
CHECKED	JH

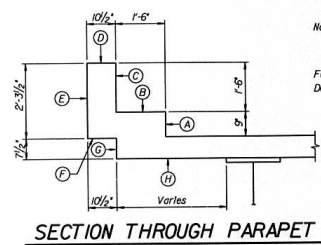
ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-270	*	MADISON	448	367
STA.	TO STA.			
F.H.W.A. REGION	ILLINOIS	PROJECT		
*60B-1-3			SHT. 28 OF 64	



LEGEND

-  Units In SF. or CF. Patch Area
-  Deteriorated Area
-  Units In LF. Rolling Repair

BILL OF MATERIAL	UNIT	QUANTITY
FORMED CONCRETE REPAIR ≤ 5'	SF.	181
POLYMER MODIFIED PORTLAND CEMENT MORTAR	CF.	7475
ALUMINUM RAILING	LF.	18
ALUMINUM RAILING POST REPAIR	EA.	6



Note: Parapet repairs are estimated, actual repair locations shall be shown by the field engineer for as-built plans.

For Parapet, Overhang and Railing Repair Details, see sheet 49 of 64



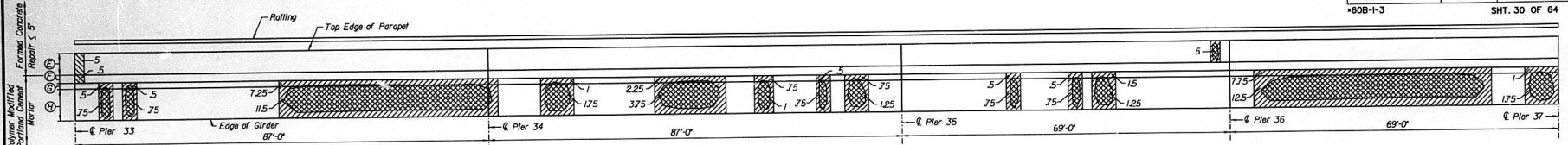
alfred benesch & company
CONSULTING ENGINEERS
200 NORTH MICHIGAN AVENUE, CHICAGO, ILLINOIS 60601
JOB NO. 3011

ILLINOIS DEPARTMENT OF TRANSPORTATION
SOUTH PARAPET & OVERHANG: SPANS 25-27
MISSISSIPPI RIVER BRIDGE
FAI-270 OVER THE MISSISSIPPI RIVER
EASTBOUND BRIDGE REPAIR
SECTION 60B-1-3
MADISON COUNTY
STRUCTURE NUMBER 060-0035

DATE 1995

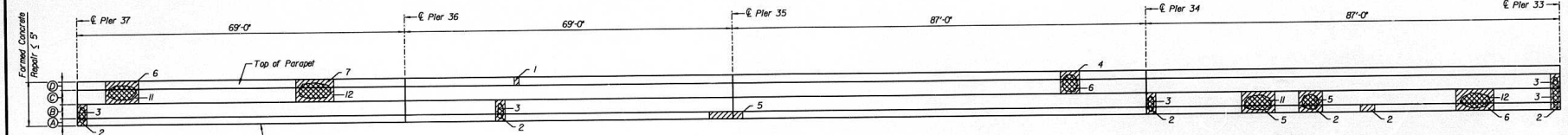
DESIGNED	
CHECKED	
DRAWN	BJ
CHECKED	JH

ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-270	*	MADISON	448	309
STA.	TO STA.			
F.H.W.A. REGION	ILLINOIS	PROJECT		
#60B-1-3			SHT. 30 OF 64	



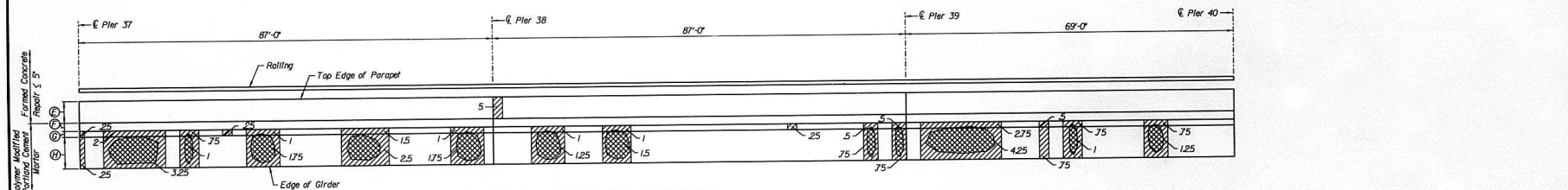
OUTSIDE FACE OF PARAPET

Spans 33-36



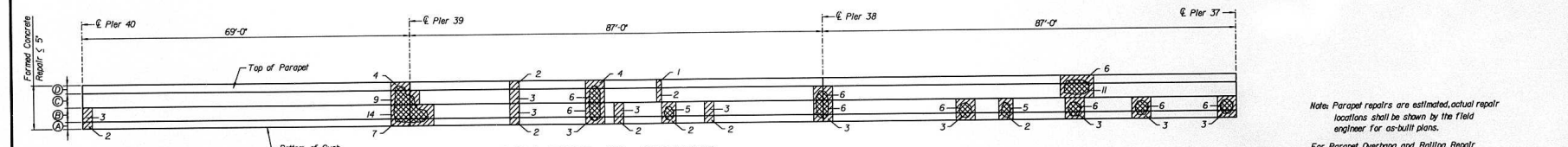
INSIDE FACE OF PARAPET

Spans 33-36



OUTSIDE FACE OF PARAPET

Spans 37-39



INSIDE FACE OF PARAPET

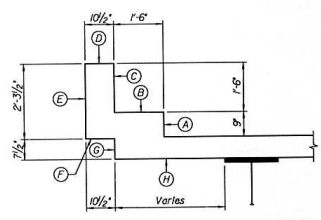
Spans 37-39

Note: Parapet repairs are estimated, actual repair locations shall be shown by the field engineer for as-built plans.
For Parapet, Overhang and Railing Repair Details, see sheet 49 of 64

LEGEND

- Units In S.F. or C.F.
- Patch Area
- Deteriorated Area
- Units In L.F.
- Railing Repair

BILL OF MATERIAL	UNIT	QUANTITY
FORMED CONCRETE REPAIR 5'±	S.F.	296
POLYMER MODIFIED PORTLAND CEMENT MORTAR	C.F.	100.5
ALUMINUM RAILING	L.F.	0
ALUMINUM RAILING POST REPAIR	EA.	0



SECTION THROUGH PARAPET



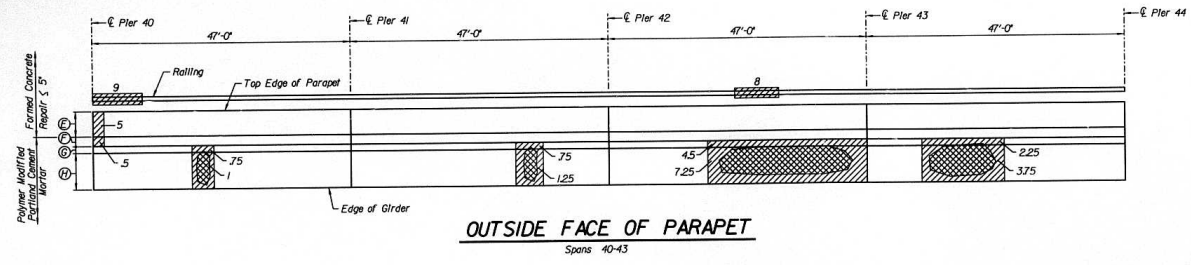
alfred benesch & company
CONSULTING ENGINEERS
200 NORTH MICHIGAN AVENUE, CHICAGO, ILLINOIS 60601
JOB NO. 3011

ILLINOIS DEPARTMENT OF TRANSPORTATION
SOUTH PARAPET & OVERHANG: SPANS 33-39
MISSISSIPPI RIVER BRIDGE
FAI-270 OVER THE MISSISSIPPI RIVER
EASTBOUND BRIDGE REPAIR
SECTION 60B-1-3
MADISON COUNTY
STRUCTURE NUMBER 060-0035

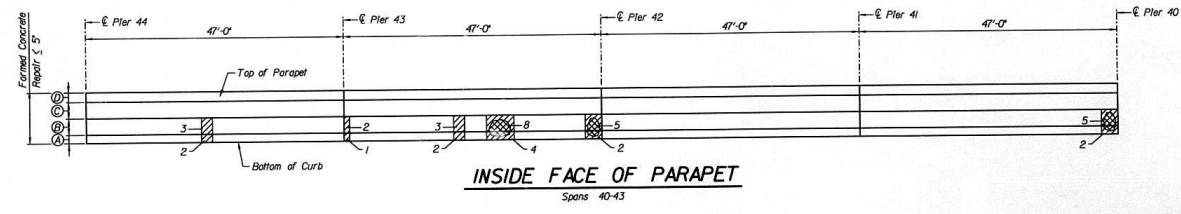
DATE 1995

DESIGNED	
CHECKED	
DRAWN	BJ
CHECKED	JH

ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA-270	*	MADISON	448	370
STA.	TO STA.			
F.A.M.A. REGION	ILLINOIS		PROJECT	
*60B-I-3	SHT. 31 OF 64			

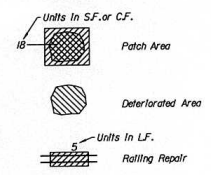


OUTSIDE FACE OF PARAPET
Spans 40-43

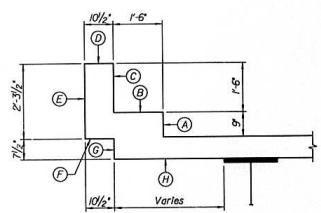


INSIDE FACE OF PARAPET
Spans 40-43

LEGEND



BILL OF MATERIAL	UNIT	QUANTITY
FORMED CONCRETE REPAIR 5'	S.F.	44
POLYMER MODIFIED PORTLAND CEMENT MORTAR	C.F.	22
ALUMINUM RAILING	LF.	17
ALUMINUM RAILING POST REPAIR	EA.	0



SECTION THROUGH PARAPET



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CONSULTING ENGINEERS
300 NORTH MICHIGAN AVENUE, CHICAGO, ILLINOIS 60601
JOB NO. 3011

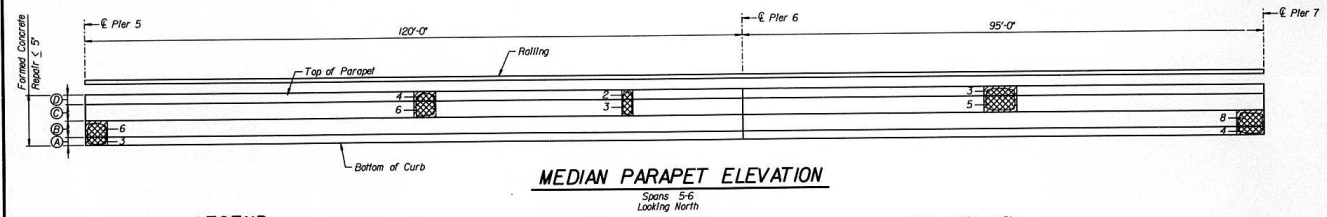
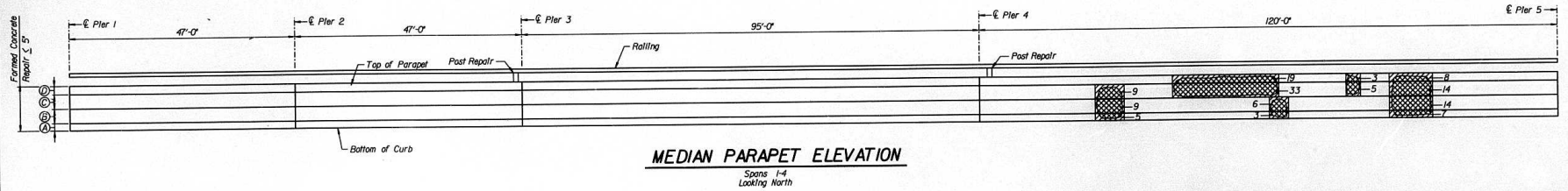
Note: Parapet repairs are estimated, actual repair locations shall be shown by the field engineer for as-built plans.
For Parapet, Overhang and Railing Repair Details, see sheet 49 of 64

ILLINOIS DEPARTMENT OF TRANSPORTATION
SOUTH PARAPET & OVERHANG: SPANS 40-43
MISSISSIPPI RIVER BRIDGE
FAI-270 OVER THE MISSISSIPPI RIVER
EASTBOUND BRIDGE REPAIR
SECTION 60B-I-3
MADISON COUNTY
STRUCTURE NUMBER 060-0035

DATE 1995

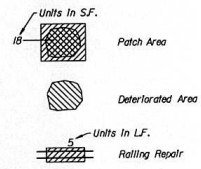
DESIGNED	
CHECKED	
DRAWN	BJ
CHECKED	JH

ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-270		MADISON	448	371
STA.		TO STA.		
F.H.W.A. REGION		ILLINOIS PROJECT		
#60B-1-3		SHT. 32 OF 64		

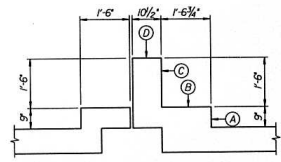


Note: Parapet repairs are estimated, actual repair locations shall be shown by the field engineer for as-built plans.
For Parapet, Overhang and Railing Repair Details, see sheet 49 of 64

LEGEND



BILL OF MATERIAL	UNIT	QUANTITY
FORMED CONCRETE REPAIR ≤ 5'	S.F.	179
ALUMINUM RAILING	L.F.	0
ALUMINUM RAILING POST REPAIR	EA.	2



SECTION THROUGH MEDIAN

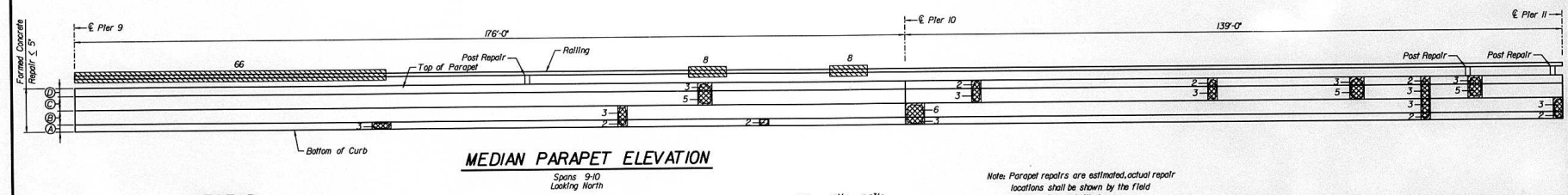
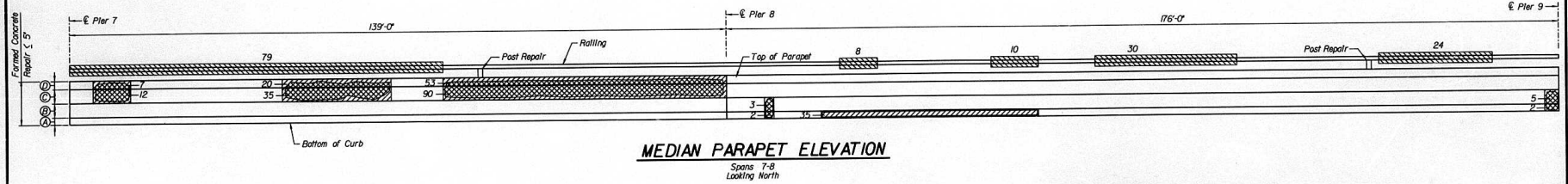


alfred benesch & company
CONSULTING ENGINEERS
200 NORTH MICHIGAN AVENUE, CHICAGO, ILLINOIS 60601
JOB NO. 3011




ILLINOIS DEPARTMENT OF TRANSPORTATION
 MEDIAN PARAPET ELEVATION: SPANS 1-6
 MISSISSIPPI RIVER BRIDGE
 FAI-270 OVER THE MISSISSIPPI RIVER
 EASTBOUND BRIDGE REPAIR
 SECTION 60B-1-3
 MADISON COUNTY
 STRUCTURE NUMBER 060-0035
 DATE 1995

DESIGNED	
CHECKED	
DRAWN	BJ
CHECKED	JH

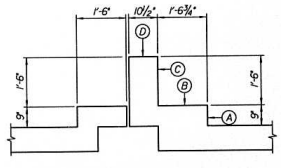
ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-270	*	MADISON	445	372
STA.	TO STA.			
F.H.W.A. REGION	ILLINOIS	PROJECT		
#60B-1-3			SHT. 33 OF 64	



LEGEND

-  Patch Area
 -  Deteriorated Area
 -  Railing Repair
- Units In S.F.
Units In L.F.

BILL OF MATERIAL	UNIT	QUANTITY
FORMED CONCRETE REPAIR $\le 5'$	SF.	332
ALUMINUM RAILING	LF.	233
ALUMINUM RAILING POST REPAIR	EA.	5



SECTION THROUGH MEDIAN

Note: Parapet repairs are estimated, actual repair locations shall be shown by the field engineer for as-built plans.
For Parapet, Overhang and Railing Repair Details, see sheet 49 of 64

Engineering Architecture Construction Services
200 South Washington
Chicago, Illinois 60601
312.581.1100

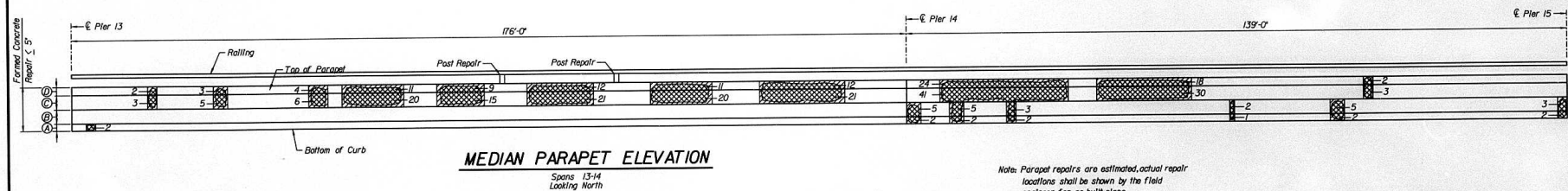
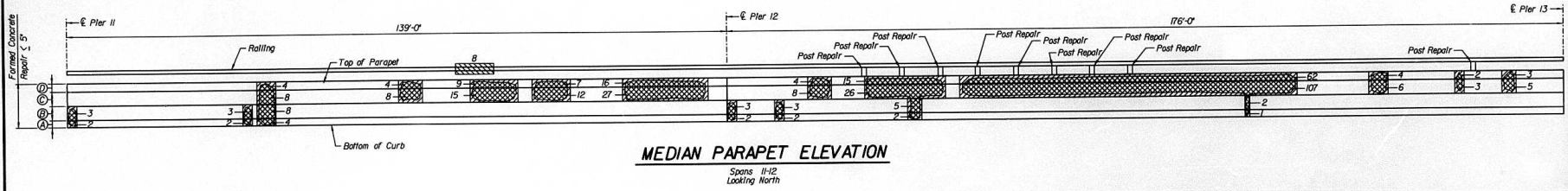
alfred benesch & company
CONSULTING ENGINEERS
200 NORTH MICHIGAN AVENUE, CHICAGO, ILLINOIS 60601
JOB NO. 3011

ILLINOIS DEPARTMENT OF TRANSPORTATION
MEDIAN PARAPET ELEVATION: SPANS 7-10
MISSISSIPPI RIVER BRIDGE
FAI-270 OVER THE MISSISSIPPI RIVER
EASTBOUND BRIDGE REPAIR
SECTION 60B-1-3
MADISON COUNTY
STRUCTURE NUMBER 060-0035

DATE 1995

DESIGNED	
CHECKED	
DRAWN	BJ
CHECKED	JH

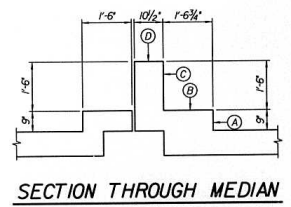
ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-270	*	MADISON	448	373
STA.		TO STA.		
F.H.W.A. REGION		ILLINOIS	PROJECT	
*60B-1-3		SHT. 34 OF 64		



LEGEND

- Units In S.F.
Patch Area
- Deteriorated Area
- Units In L.F.
Rolling Repair

BILL OF MATERIAL	UNIT	QUANTITY
FORMED CONCRETE REPAIR ≤ 5'	S.F.	726
ALUMINUM RAILING	L.F.	8
ALUMINUM RAILING POST REPAIR	EA.	11



Note: Parapet repairs are estimated, actual repair locations shall be shown by the field engineer for as-built plans.
For Parapet, Overhang and Rolling Repair Details, see sheet 49 of 64

DESIGNED	
CHECKED	
DRAWN	BJ
CHECKED	JH

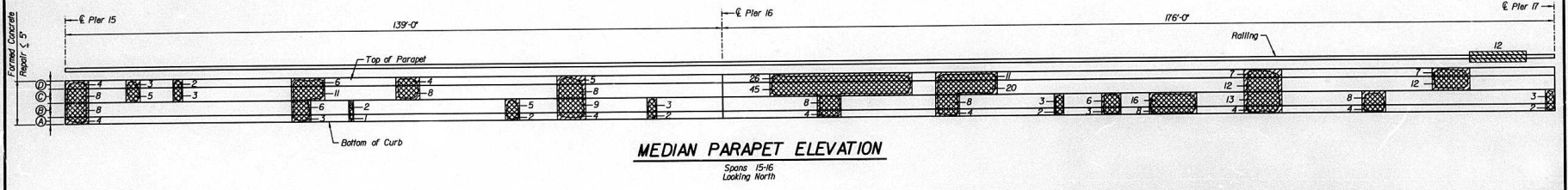
Engineering Architects Construction Services
100 North Dearborn Street
Chicago, Illinois 60610
Tel: 312.329.2000
Fax: 312.329.2001

alfred benesch & company
CONSULTING ENGINEERS
300 NORTH MICHIGAN AVENUE, CHICAGO, ILLINOIS 60610
JOB NO. 3011

ILLINOIS DEPARTMENT OF TRANSPORTATION
MEDIAN PARAPET ELEVATION: SPANS 11-14
MISSISSIPPI RIVER BRIDGE
FAI-270 OVER THE MISSISSIPPI RIVER
EASTBOUND BRIDGE REPAIR
SECTION 60B-1-3
MADISON COUNTY
STRUCTURE NUMBER 060-0035

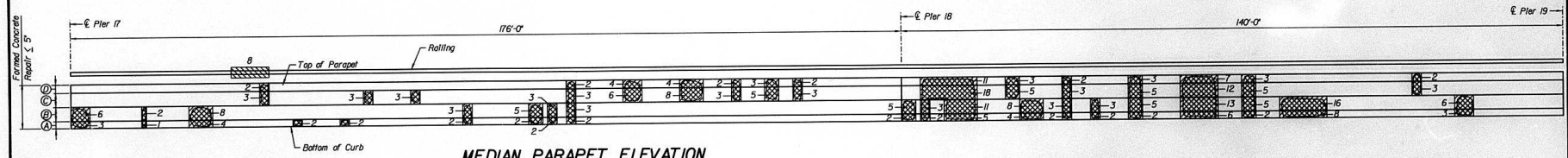
DATE 1995

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-270	*	MADISON	448	374
STA.		TO STA.		
F.H.W.A. REGION		ILLINOIS	PROJECT	
*60B-I-3		SHT. 35 OF 64		



MEDIAN PARAPET ELEVATION

Spans 15-16
Looking North



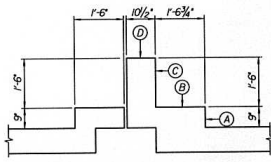
MEDIAN PARAPET ELEVATION

Spans 17-18
Looking North

LEGEND

- Units In S.F.
Patch Area
- Deteriorated Area
- Units In L.F.
Rolling Repair

BILL OF MATERIAL	UNIT	QUANTITY
FORMED CONCRETE REPAIR $\le 5'$	S.F.	656
ALUMINUM RAILING	L.F.	20
ALUMINUM RAILING POST REPAIR	EA.	0



SECTION THROUGH MEDIAN

Note: Parapet repairs are estimated, actual repair locations shall be shown by the field engineer for as-buil plans.

For Parapet, Overhang and Rolling Repair Details, see sheet 49 of 64



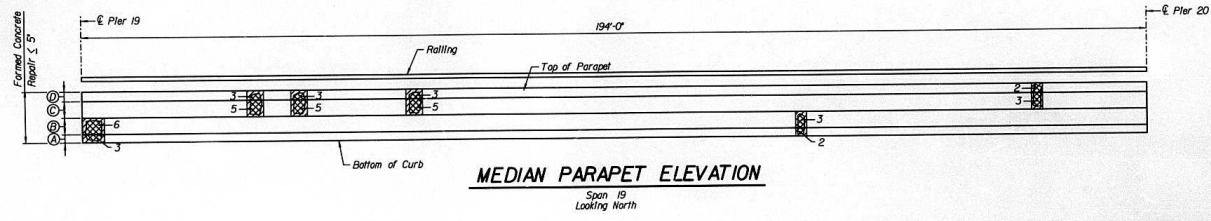
alfred benesch & company
CONSULTING ENGINEERS
300 SOUTH MICHIGAN AVENUE, CHICAGO, ILLINOIS 60601
JOB NO. 3011

ILLINOIS DEPARTMENT OF TRANSPORTATION
MEDIAN PARAPET ELEVATION: SPANS 15-18
MISSISSIPPI RIVER BRIDGE
FAI-270 OVER THE MISSISSIPPI RIVER
EASTBOUND BRIDGE REPAIR
SECTION 60B-I-3
MADISON COUNTY
STRUCTURE NUMBER 060-0035

DATE 1995

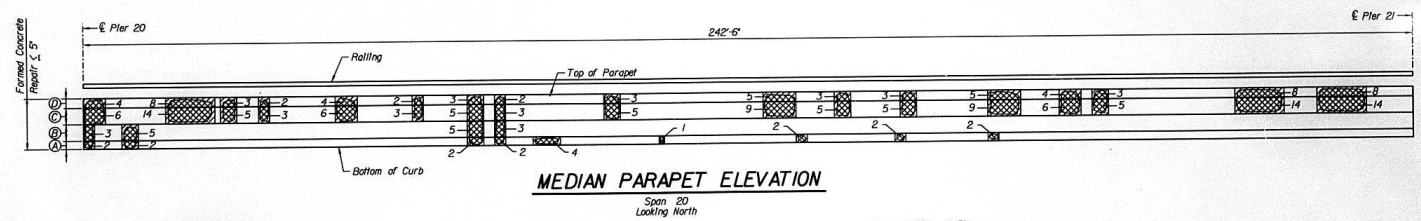
DESIGNED	
CHECKED	
DRAWN	BJ
CHECKED	JH

ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-270	*	MADISON	448	375
STA.		TO STA.		
F.H.W.A. REGION		KLING	PROJECT	
*60B-1-3		SHT. 36 OF 64		



MEDIAN PARAPET ELEVATION

Span 19
Looking North



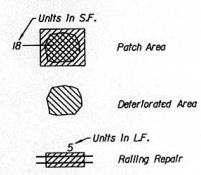
MEDIAN PARAPET ELEVATION

Span 20
Looking North

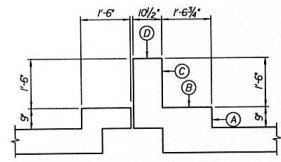
Note: Parapet repairs are estimated, actual repair locations shall be shown by the field engineer. For as-built plans.

For Parapet, Overhang and Rolling Repair Details, see sheet 49 of 64

LEGEND



BILL OF MATERIAL	UNIT	QUANTITY
FORMED CONCRETE REPAIR ≤ 5'	S.F.	265
ALUMINUM RAILING	L.F.	0
ALUMINUM RAILING POST REPAIR	EA.	0



SECTION THROUGH MEDIAN



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200 NORTH MICHIGAN AVENUE, CHICAGO, ILLINOIS 60601
JOB NO. 3011

ILLINOIS DEPARTMENT OF TRANSPORTATION

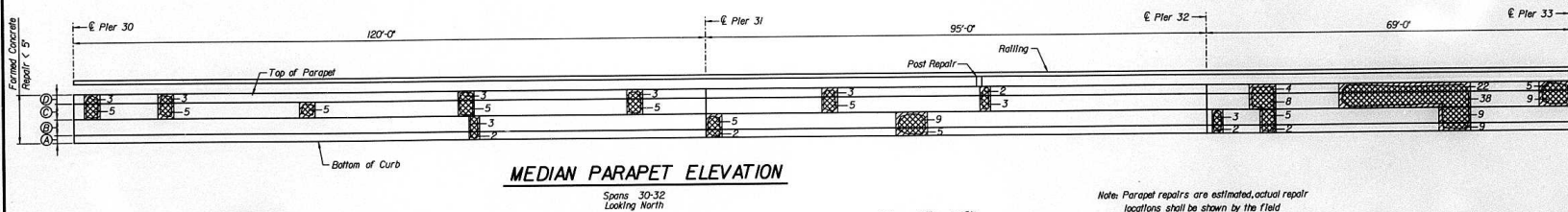
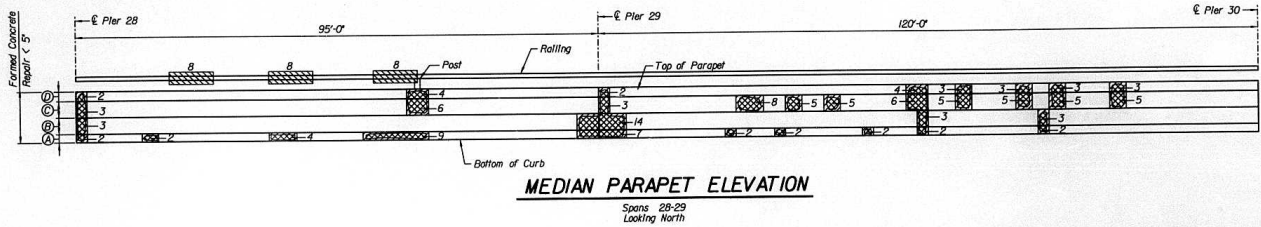
MEDIAN PARAPET ELEVATION: SPANS 19-20
MISSISSIPPI RIVER BRIDGE

FAI-270 OVER THE MISSISSIPPI RIVER
EASTBOND BRIDGE REPAIR
SECTION 60B-1-3
MADISON COUNTY
STRUCTURE NUMBER 060-0035

DATE 1995

DESIGNED	
CHECKED	
DRAWN	BJ
CHECKED	JH

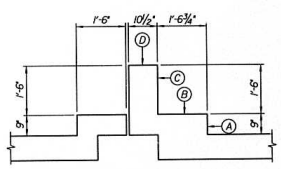
ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-270	*	MADISON	448	379
STA.	TO STA.			
F.H.W.A. REGION	LLINGS	PROJECT		
60B-I-3		SHT. 40 OF 64		



LEGEND

- Units In S.F.
Patch Area
- Deteriorated Area
- Units In L.F.
Railing Repair

BILL OF MATERIAL	UNIT	QUANTITY
FORMED CONCRETE REPAIR < 5'	S.F.	329
ALUMINUM RAILING	L.F.	24
ALUMINUM RAILING POST REPAIR	EA.	2



Note: Parapet repairs are estimated, actual repair locations shall be shown by the field engineer for as-built plans.

For Parapet, Overhang and Railing Repair Details, see sheet 49 of 64



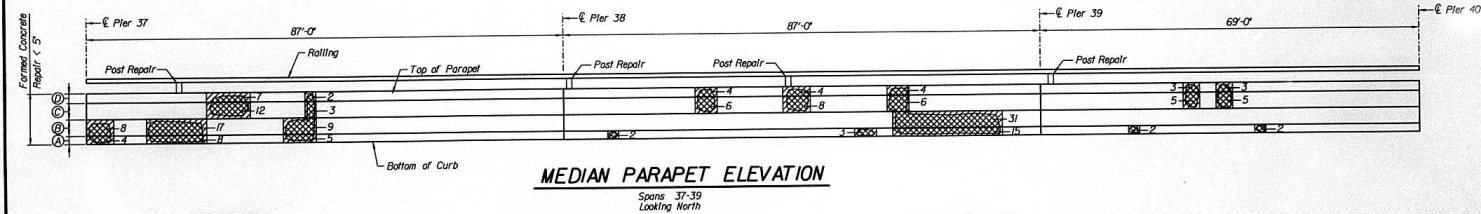
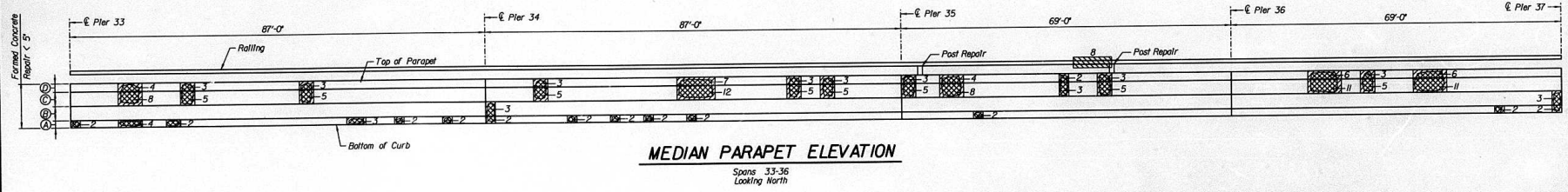
alfred benesch & company
CONSULTING ENGINEERS
300 NORTH MADISON AVENUE, CHICAGO, ILLINOIS 60601
JOB NO. 3011

ILLINOIS DEPARTMENT OF TRANSPORTATION
MEDIAN PARAPET ELEVATION: SPANS 28-32
MISSISSIPPI RIVER BRIDGE
FAI-270 OVER THE MISSISSIPPI RIVER
EASTBOUND BRIDGE REPAIR
SECTION 60B-I-3
MADISON COUNTY
STRUCTURE NUMBER 060-0035

DATE 1995

DESIGNED	
CHECKED	
DRAWN	BJ
CHECKED	JH

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-270	*	MADISON	448	280
STA.	TO STA.			
F.H.W.A. REGION	ILLINOIS	PROJECT		
#60B-1-3			SHT. 41 OF 64	

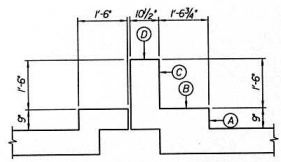


Note: Parapet repairs are estimated, actual repair locations shall be shown by the field engineer for as-built plans.
For Parapet, Overhang and Rolling Repair Details, see sheet 49 of 64

LEGEND

- Units in S.F. Patch Area
- Deteriorated Area
- Units in LF. Railing Repair

BILL OF MATERIAL	UNIT	QUANTITY
FORMED CONCRETE REPAIR < 5'	S.F.	361
ALUMINUM RAILING	LF.	8
ALUMINUM RAILING POST REPAIR	EA.	6



SECTION THROUGH MEDIAN

DESIGNED	
CHECKED	
DRAWN	BJ
CHECKED	JH

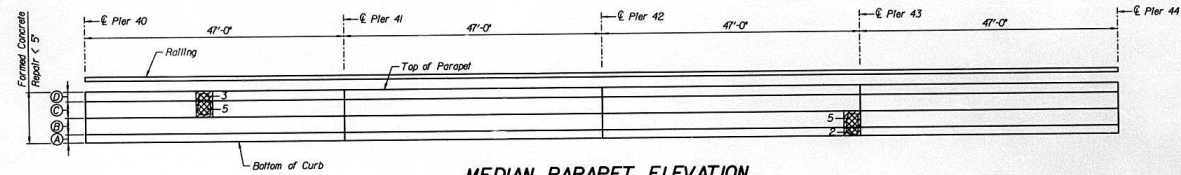


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JOB NO. 3011

ILLINOIS DEPARTMENT OF TRANSPORTATION
MEDIAN PARAPET ELEVATION: SPANS 33-39
MISSISSIPPI RIVER BRIDGE
FAI-270 OVER THE MISSISSIPPI RIVER
EASTBOUND BRIDGE REPAIR
SECTION 60B-1-3
MADISON COUNTY
STRUCTURE NUMBER 060-0035

DATE 1995

ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-270	*	MADISON	#48	581
STA.		TO STA.		
F.H.W.A. REGION		ILLINOIS	PROJECT	
*60B-1-3		SHT. 42 OF 64		



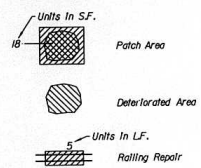
MEDIAN PARAPET ELEVATION

Spans 40-43
Looking North

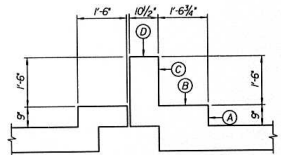
Note: Parapet repairs are estimated, actual repair locations shall be shown by the field engineer for as-built plans.

For Parapet, Overhang and Rolling Repair Details, see sheet 49 of 64

LEGEND



BILL OF MATERIAL	UNIT	QUANTITY
FORMED CONCRETE REPAIR < 5"	SF.	15
ALUMINUM RAILING	LF.	0
ALUMINUM RAILING POST REPAIR	EA.	0



SECTION THROUGH MEDIAN

DESIGNED	
CHECKED	
DRAWN	BJ
CHECKED	JH

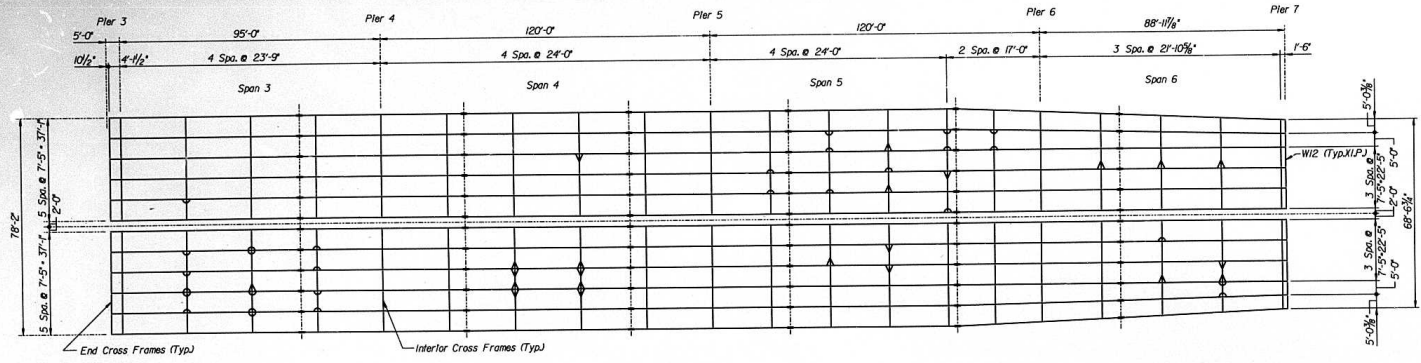


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JOB NO. 3011

ILLINOIS DEPARTMENT OF TRANSPORTATION
MEDIAN PARAPET ELEVATION: SPANS 40-43
MISSISSIPPI RIVER BRIDGE
FAI-270 OVER THE MISSISSIPPI RIVER
EASTBOUND BRIDGE REPAIR
SECTION 60B-1-3
MADISON COUNTY
STRUCTURE NUMBER 060-0035

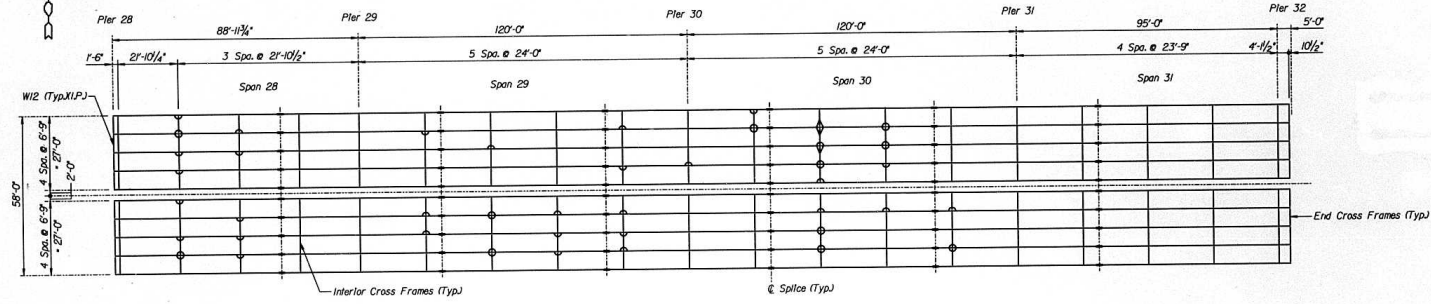
DATE: 1996

ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-270	*	MADISON	448	382
STA.	TO STA.			
F.A.W.A. REGION	ILLNOIS	PROJECT		
60B-1-3				SHT. 43 OF 64



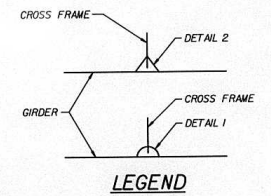
FRAMING PLAN

Spans 3 to 6

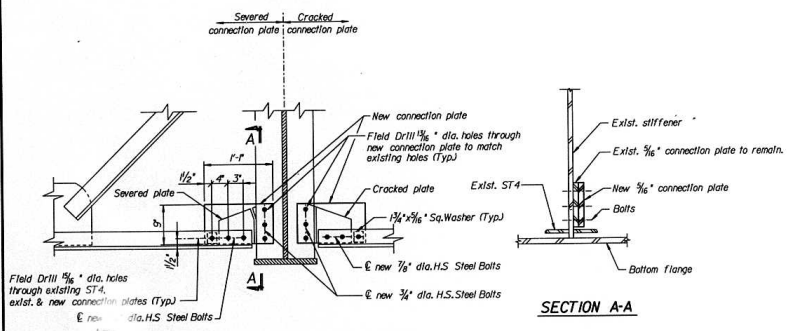


FRAMING PLAN

Spans 28 to 31



LEGEND

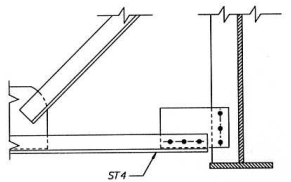


SECTION A-A

DETAIL 1

(Existing cross frame connections cracked or sawered)

CROSS FRAME CONNECTION PLATE REPAIR



DETAIL 2

(Existing cross frame connection with loose bolts)

TIGHTENING BOLTS

DESIGNED	JN
CHECKED	DM
DRAWN	CD
CHECKED	JN

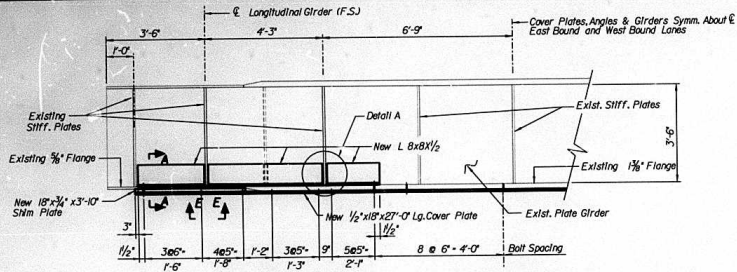


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CONSULTING ENGINEERS
305 NORTH MICHIGAN AVENUE, CHICAGO, ILLINOIS 60601
JOB NO. 3011

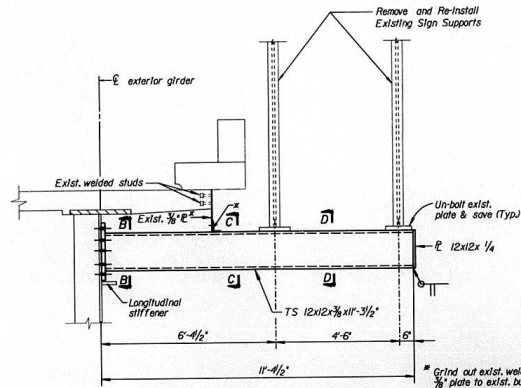
ILLINOIS DEPARTMENT OF TRANSPORTATION
GRIDER REPAIRS - CROSS FRAME CONNECTIONS
MISSISSIPPI RIVER BRIDGE
FAI-270 OVER THE MISSISSIPPI RIVER
EASTBOUND BRIDGE REPAIR
SECTION 60B-1-3
MADISON COUNTY
STRUCTURE NUMBER 060-0035

DATE 1995

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-270		MADISON	448	883
STA.		TO STA.		
F.J.M.A. REGION		ILLMOIS	PROJECT	
*60B-1-3		SHT. 44 OF 64		

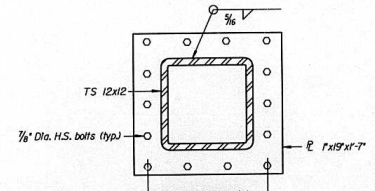


CROSS GIRDERS AT PIER 28
(Looking West)

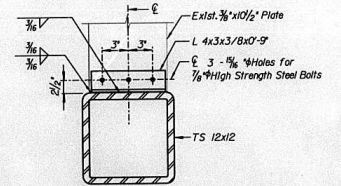


SIGN SUPPORT SPAN 21 (EAST BOUND)

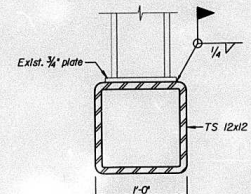
Dismantle sign support and replace built-up member & bolted plate with TS 12x12 and new $\frac{1}{2}$ plate. Re-install sign support



SECTION B-B



SECTION C-C



SECTION D-D

BILL OF MATERIAL

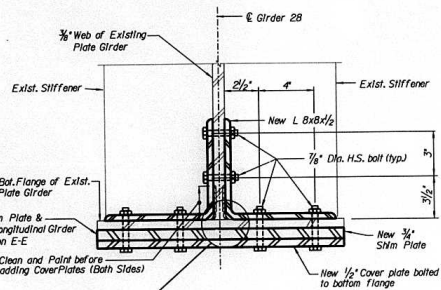
ITEM	UNIT	TOTAL
STRUCTURAL STEEL REPAIR	LB	930
FURNISHING & ERECTING STRUCTURAL STEEL	LB	4305

NOTE: Removal, Storage and Reinstallation of Sign Support Shall be Incidental to STRUCTURAL STEEL REPAIR.

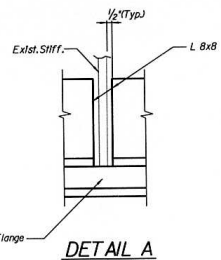
ILLINOIS DEPARTMENT OF TRANSPORTATION

STEEL DETAILS
MISSISSIPPI RIVER BRIDGE
FAI-270 OVER THE MISSISSIPPI RIVER
EASTBOUND BRIDGE REPAIR
SECTION 60B-1-3
MADISON COUNTY
STRUCTURE NUMBER 060-0035

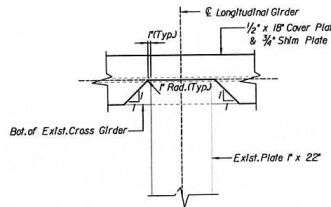
DATE 1995



SECTION A-A
(Bottom flange repair detail cross girders @ Pier 28)



DETAIL A

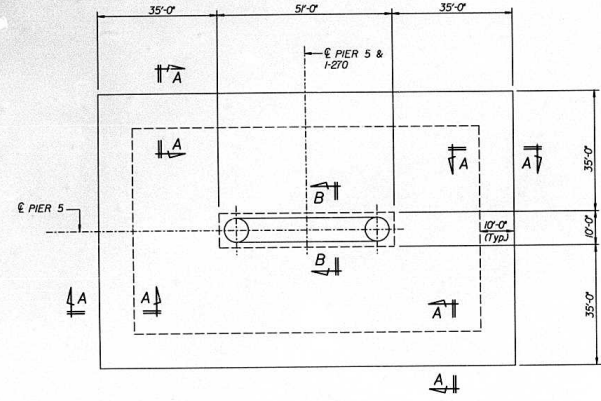


SECTION E-E
Cope Detail

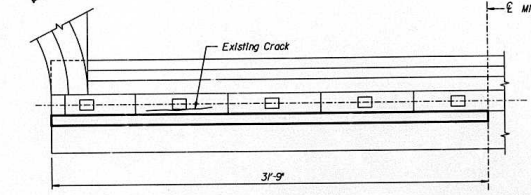
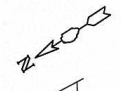
DESIGNED	JN
CHECKED	DM
DRAWN	CD
CHECKED	JN

alfred benesch & company
CONSULTING ENGINEERS
225 NORTH MICHIGAN AVENUE, CHICAGO, ILLINOIS 60601
JOB NO. 3011

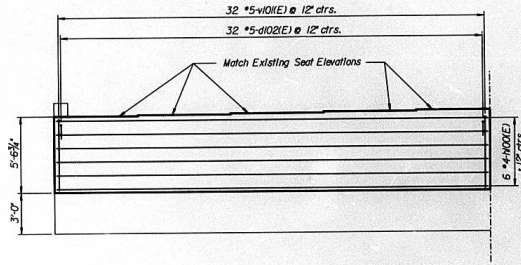
ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-270	*	MADISON	448	384
STA.		TO STA.		
F.J.W.A. REGION		ILLINOIS PROJECT		
*60B-I-3		SHT. 45 OF 64		



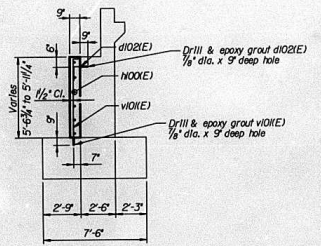
PLAN
SCOUR PROTECTION REPAIR PIER 5



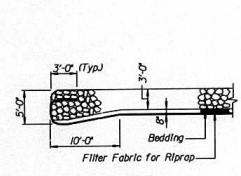
PLAN
EAST ABUTMENT



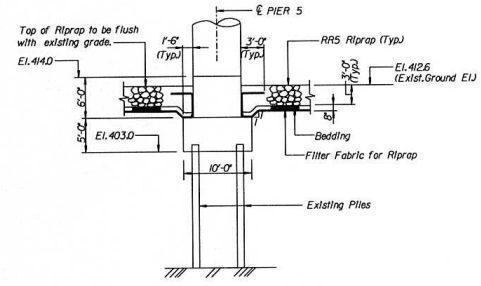
ELEVATION



SECTION



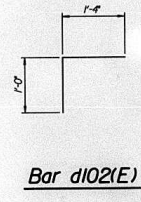
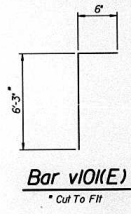
SECTION A-A



SECTION B-B

BILL OF MATERIAL

Bar	No.	Size	Length	Shape	
H00(E)	6	#4	31'-9"	—	
v10(E)	32	#5	6'-9"	L	
d102(E)	32	#5	2'-4"	L	
REINFORCEMENT BARS, EPOXY COATED				LBS.	430
CONCRETE STRUCTURES				CU.YDS.	5
STONE RIPRAP CLASS A5				SQ.YDS.	1020
FILTER FABRIC FOR USE WITH RIPRAP				SQ.YDS.	1350



NOTE:
Epoxy grout #5 Bars in 1/8" x 9" minimum Drilled Holes. The Grout and Method of Application Shall be approved by the Engineer. Cost shall be Incidental to Reinforcement Bars, Epoxy Coated.

ILLINOIS DEPARTMENT OF TRANSPORTATION

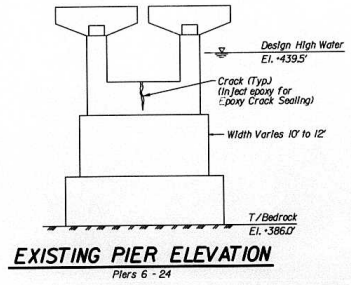
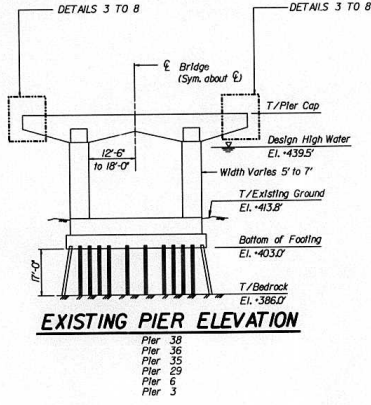
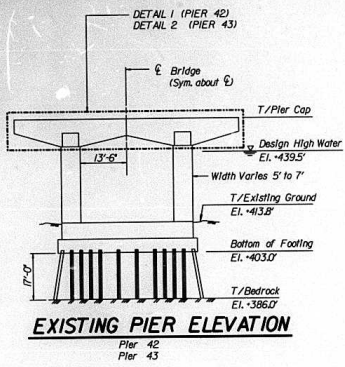
**EAST ABUTMENT & PIER 5
MISSISSIPPI RIVER BRIDGE
FAI-270 OVER THE MISSISSIPPI RIVER
EASTBOUND BRIDGE REPAIR
SECTION 60B-I-3
MADISON COUNTY
STRUCTURE NUMBER 060-0035**

DATE 1995

alfred benesch & company
CONSULTING ENGINEERS
205 NORTH MICHIGAN AVENUE, CHICAGO, ILLINOIS 60601
JOB NO. 3011

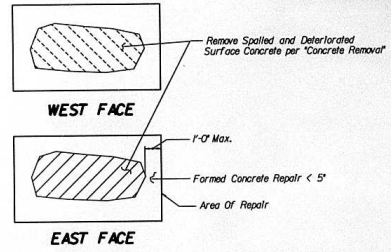
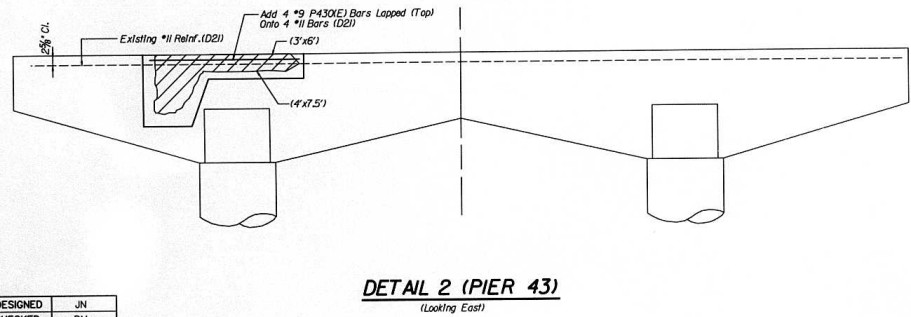
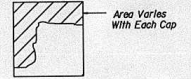
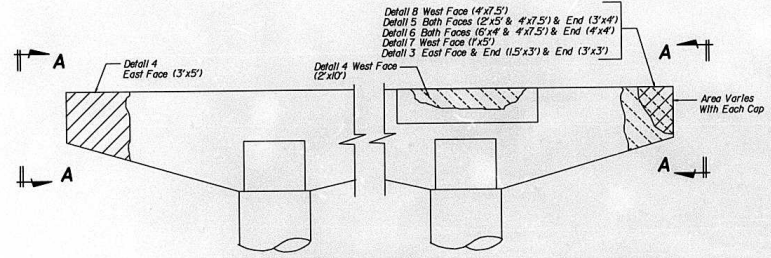
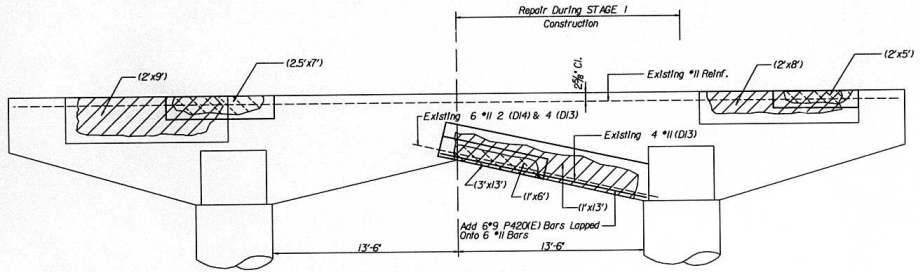
DESIGNED	JN
CHECKED	DM
DRAWN	CD
CHECKED	JN

ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-270	*	MADISON	448	385
STA.		TO STA.		
F.H.W.A. REGION		ILLINOIS PROJECT		
#60B-1-3		SHT. 46 OF 64		



BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
P420(E)	6	*9	13'-6"	—
P430(E)	4	*9	6'-0"	—
EPOXY CRACK SEALING			LIN. FT.	600
FORMED CONCRETE REPAIR 5"			SQ. FT.	400
REINFORCEMENT BARS, EPOXY COATED			LBS	360



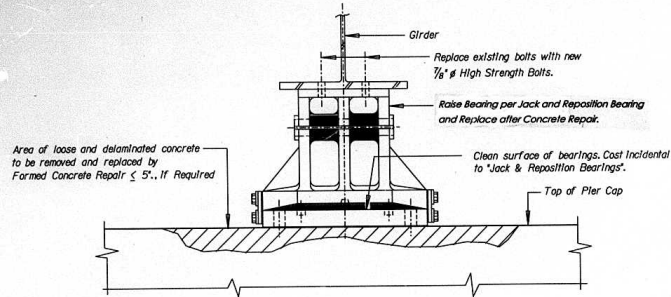
ILLINOIS DEPARTMENT OF TRANSPORTATION
PIER REPAIRS
MISSISSIPPI RIVER BRIDGE
FAI-270 OVER THE MISSISSIPPI RIVER
EASTBOUND BRIDGE REPAIR
SECTION 60B-1-3
MADISON COUNTY
STRUCTURE NUMBER 060-0035

alfred benesch & company
CONSULTING ENGINEERS
200 NORTH MICHIGAN AVENUE, CHICAGO, ILLINOIS 60601
JOB NO. 3011

DATE 1995

DESIGNED	JN
CHECKED	DM
DRAWN	CD
CHECKED	JN

ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-270		MADISON	483	386
STA.		TO STA.		
F.H.W.A. REGION		ILLINOIS PROJECT		
*60B-1-3		SHT. 47 OF 64		

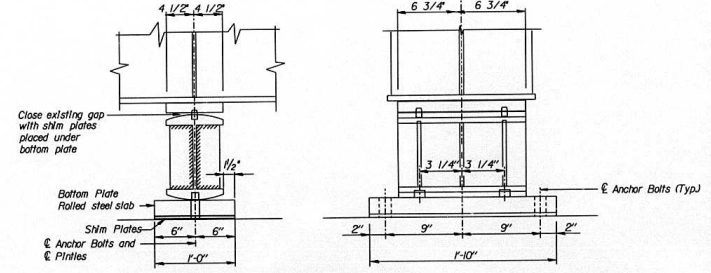


BEARING DETAIL

NOTE:
Repair pier cap after jacking & cribbing Girder.

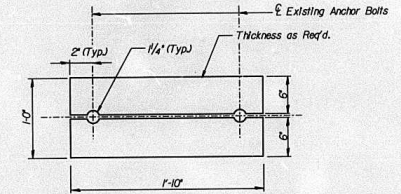
LOCATION FOR JACK AND REPOSITION BEARINGS

PIER NO.	BEARING LOCATION
29	SOUTH BEARING



SHIM BEARING AT PIER 3, GIRDER 8

NOTE:
Loosen Anchor bolt nuts. Close gap between top plate and rocker after Jack & Reposition Bearing using shim plates (as req'd) below the bottom plate rolled steel slab. Shimling of bearing & shim plates shall be incidental to Jack & Reposition Bearing. Shim plates shall satisfy requirements of Structural Steel Repair.



STAINLESS STEEL SHIM PLATE DETAIL

BILL OF MATERIAL

ITEM	UNIT	TOTAL
JACK AND REPOSITION BEARINGS	EACH	2
FORMED CONCRETE REPAIR ≤ 5'	SQ.FT.	30

ILLINOIS DEPARTMENT OF TRANSPORTATION
 MISSISSIPPI RIVER BRIDGE PIER REPAIRS - BEARINGS
 FAI-270 OVER THE MISSISSIPPI RIVER
 EASTBOUND BRIDGE REPAIR
 SECTION 60B-1-3
 MADISON COUNTY
 STRUCTURE NUMBER 060-0035

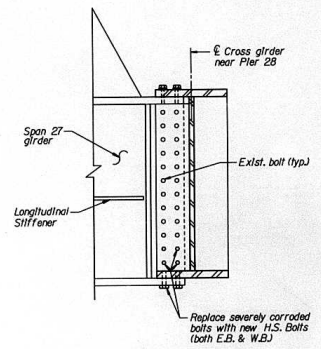
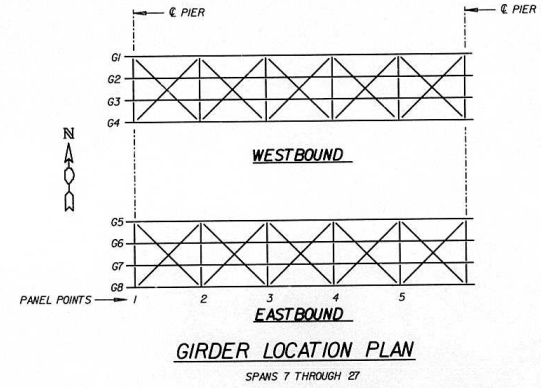
DATE 1995

alfred benesch & company
 CONSULTING ENGINEERS
 300 NORTH MICHIGAN AVENUE, CHICAGO, ILLINOIS 60601
 JOB NO. 3011

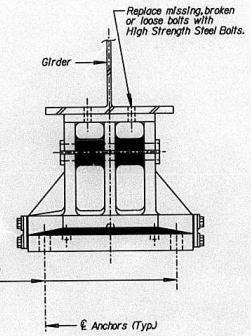
DESIGNED	JN
CHECKED	DM
DRAWN	CD
CHECKED	JN

MISSING AND LOOSE BOLTS				
SPAN	LOCATION		NUMBER OF BOLTS	REMARKS
	PANEL POINT E-W	GIRDER N-S		
3	3	G10	1	SPLICE
6	2	G4	1	SPLICE
11	6	G8	2	LATERAL BRACING
12	2	G8	1	LATERAL BRACING
13	6	G4	1	LATERAL BRACING
13	7	G1	1	LATERAL BRACING
13	5	G8	1	LATERAL BRACING
15	1	G5	1	LATERAL BRACING GIRDER
15	1	G5	3	LATERAL BRACING GIRDER
16	7	G4	1	LATERAL BRACING
16	1	G4	1	LATERAL BRACING
17	2	G8	1	LATERAL BRACING
17	5	G5	1	LATERAL BRACING
17	5	G8	2	LATERAL BRACING
17	6	G5	1	LATERAL BRACING
17	7-8	G6-G7	1	CENTER CONNECTION
17	8	G5	1	LATERAL BRACING
17	9	G5	1	LATERAL BRACING
17	9	G4	1	LATERAL BRACING
18	1	G4	1	LATERAL BRACING
18	2	G5	1	LATERAL BRACING
18	4	G1	2	LATERAL BRACING
18	6	G4	3	LATERAL BRACING
19	2	G4	1	LATERAL BRACING
19	5	G8	2	LATERAL BRACING
20	4-5	G2-G3	1	CENTER CONNECTION
20	10	G4	1	LATERAL BRACING
21	2	G5	3	LATERAL BRACING
21	3	G5	1	LATERAL BRACING
21	2	G8	1	LATERAL BRACING
22	10	G5	1	LATERAL BRACING
23	2	G1	1	LATERAL BRACING
23	3	G1	1	LATERAL BRACING
23	8	G4	1	LATERAL BRACING
23	8	G5	1	FLOORBEAM TO STIFFENER
23	2	G4	1	LATERAL BRACING
27	3-4	G6-G7	14	CENTER CONNECTION CONNECTIONS TO CROSS GIRDER 28 (SEE GIRDER DETAIL I)
36	3	G9	1	SPLICE
39	1	G4	1	DIAPHRAGM

REPLACEMENT OF BOLTS BETWEEN TOP CASTING OF ROCKER BEARING AND BOTTOM FLANGE OF GIRDER				
LOCATION	PIER NUMBER	BEARING NUMBER	NUMBER OF LOOSE OR BROKEN BOLTS	REMARKS
RVER	7	3	3	
RVER	7	4	1	
RVER	10	2	2	
RVER	10	3	1	
RVER	10	4	7	
RVER	11	2	1	
RVER	11	3	1	
RVER	12	2	3	
RVER	12	3	2	
RVER	12	4	1	
RVER	13	2	1	
RVER	13	3	2	
RVER	15	3	1	
RVER	16	1	4	
RVER	16	2	3	
RVER	16	3	1	
RVER	16	4	6	
RVER	18	1	4	
RVER	18	2	3	
RVER	18	3	1	
RVER	20	1	6	
RVER	20	2	5	
RVER	20	3	2	
RVER	20	4	2	
RVER	20	1	2	
RVER	21	1	2	
RVER	21	2	2	
RVER	21	3	2	
RVER	22	1	2	
RVER	22	2	2	
RVER	22	3	6	
RVER	23	1	3	
RVER	23	2	3	
RVER	23	4	1	
RVER	24	1	1	
RVER	24	2	1	
RVER	25	3	3	
RVER	26	2	1	
RVER	27	2	1	
RVER	27	4	1	
RVER	30	3	0	2 Loose Anchor Nuts
RVER	30	4	0	1 Loose Anchor Nut
RVER	30	7	0	2 Loose Anchor Nuts
RVER	30	9	0	1 Loose Anchor Nut
RVER	31	3	0	1 Loose Anchor Nut
RVER	31	6	1	2 Loose Anchor Nuts
RVER	31	9	0	1 Loose Anchor Nut
RVER	33	2	0	1 Loose Anchor Nut
RVER	33	8	0	1 Loose Anchor Nut
RVER	33	9	0	1 Loose Anchor Nut



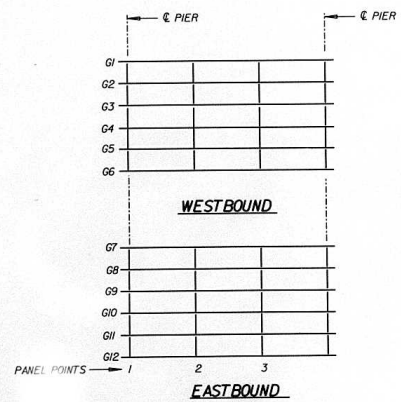
GIRDER DETAIL I
(Typical corroded bolt replacement)



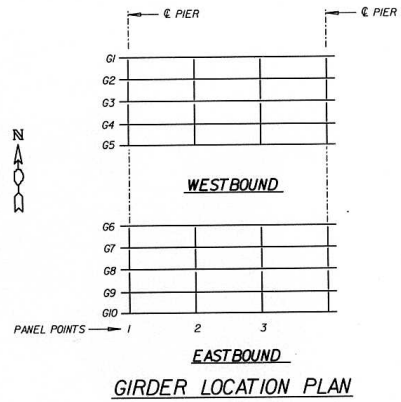
BEARING DETAIL

Replace missing or loose nuts on Anchor Bolts. Provide Washers where lack of threads on Anchor Bolt projection prevents tightening of Existing Nuts.

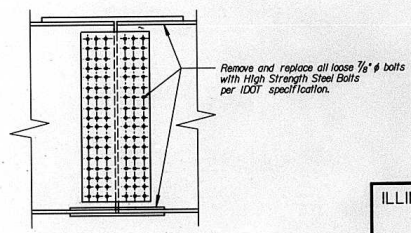
NOTE:
Replace missing and loose bolts with HIGH STRENGTH STEEL BOLTS. Bearings are numbered from north to south. Tightening of new anchor nuts shall be incidental to STRUCTURAL STEEL REPAIR



GIRDER LOCATION PLAN
SPANS 3 THROUGH 6



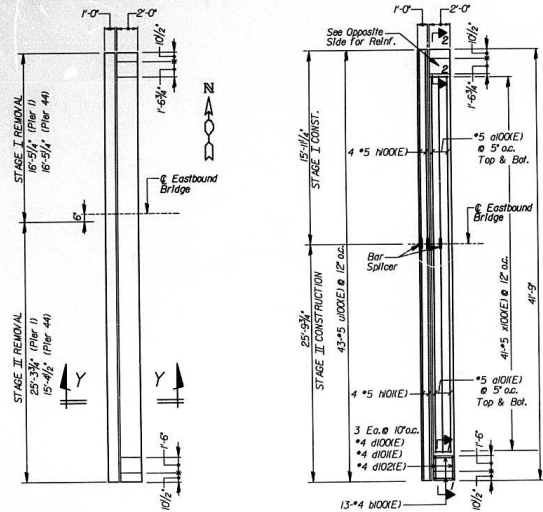
GIRDER LOCATION PLAN
SPANS 28 THROUGH 39



GIRDER DETAIL 2
(Existing splice detail)

DESIGNED	JN
CHECKED	DM
DRAWN	CD
CHECKED	JN

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-270	*	MADISON	448	389
STA.	TO STA.		PROJECT	
1.1/4	KILNO		PROJECT	
#60B-1-3			SHT. 50 OF 64	

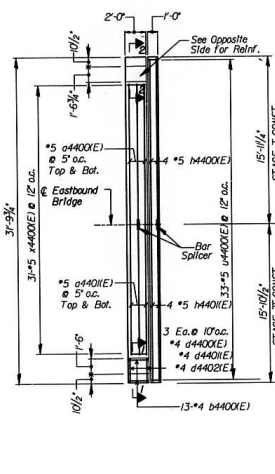


PLAN - CONCRETE REMOVAL

WEST ABUTMENT (PIER 1)
EAST ABUTMENT (PIER 44) (Opposite Hand)

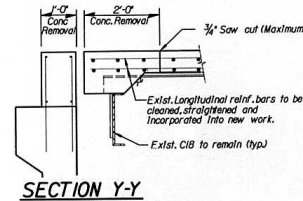
CONCRETE DECK REINFORCEMENT

WEST ABUTMENT (PIER 1)



CONCRETE DECK REINFORCEMENT

EAST ABUTMENT (PIER 44)

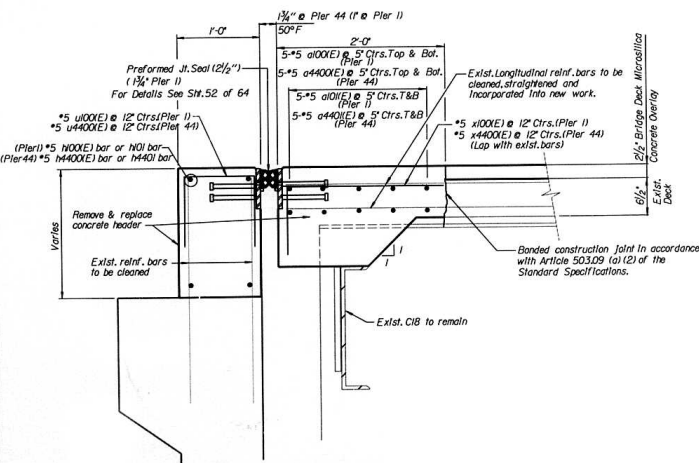


SECTION Y-Y

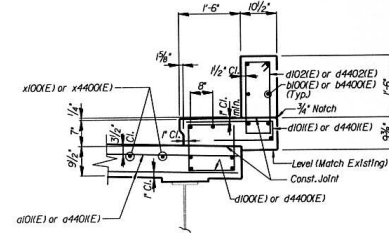
BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
a100(E)	10	#5	14'-6"	—
a101(E)	10	#5	24'-0"	—
b100(E)	26	#4	1'-6"	—
d100(E)	6	#4	4'-8"	□
d101(E)	6	#4	4'-1"	□
d102(E)	6	#4	5'-8"	□
n100(E)	4	#5	15'-8"	—
n101(E)	4	#5	25'-7"	—
u100(E)	43	#5	1'-11"	□
x100(E)	7	#5	2'-5"	□
a4400(E)	10	#5	14'-6"	—
b4400(E)	10	#5	14'-6"	—
b4400(E)	26	#4	1'-6"	—
d4400(E)	6	#4	4'-8"	□
d4401(E)	6	#4	4'-1"	□
d4402(E)	6	#4	5'-8"	□
m400(E)	4	#5	15'-8"	—
m401(E)	4	#5	15'-8"	—
u400(E)	33	#5	1'-11"	□
x400(E)	31	#5	2'-5"	□

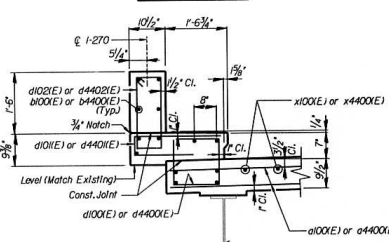
REINFORCEMENT BARS, EPOXY COATED	LBS	1510
CONCRETE SUPERSTRUCTURE	CU YDS	101
PREFORMED JOINT SEAL 1 1/2"	LIN. FT.	43
PREFORMED JOINT SEAL 2 1/2"	LIN. FT.	33
CONCRETE REMOVAL	CU YDS	101
FURNISHING & ERECTING STRUCTURAL STEEL	LBS	1325
BAR SPlicERS	EACH	28



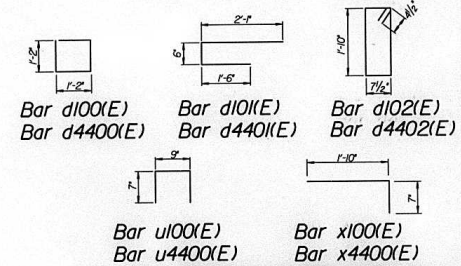
PREFORMED EXPANSION JOINT SEAL AT ABUTMENT PIERS 1 & 44



SECTION 1-1



SECTION 2-2



Notes:
Pier numbers may be mis-numbered in the field.

ILLINOIS DEPARTMENT OF TRANSPORTATION
EXPANSION JOINTS AT PIERS 1 AND 44
MISSISSIPPI RIVER BRIDGE
FAI-270 OVER THE MISSISSIPPI RIVER
EASTBOUND BRIDGE REPAIR
SECTION 60B-1-3
MADISON COUNTY
STRUCTURE NUMBER 060-0035

DATE 1995

DESIGNED	JN
CHECKED	DM
DRAWN	CD
CHECKED	JN

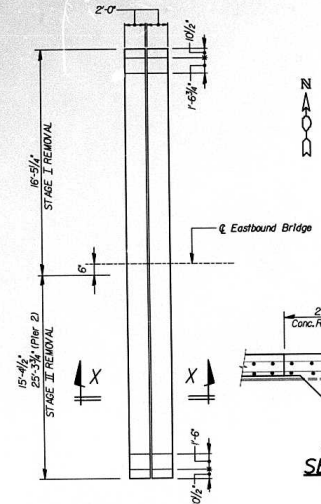
alfred benesch & company
CONSULTING ENGINEERS
302 NORTH MICHIGAN AVENUE, CHICAGO, ILLINOIS 60601
JOB NO. 2011

ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA-270	*	MADISON	488	390
STA.		TO STA.		
F.H.W.A. REGION		ILLINOIS PROJECT		
*60B-1-3		SHT. 51 OF 64		

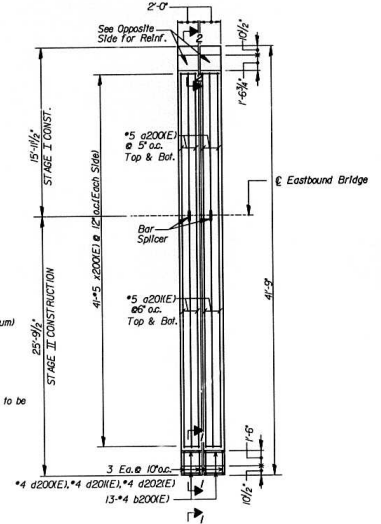
BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
a200(E)	20	*5	14'-6"	—
a201(E)	20	*5	24'-0"	—
b200(E)	52	*4	1'-6"	—
d200(E)	12	*4	4'-8"	□
d201(E)	12	*4	4'-7"	□
d202(E)	12	*4	5'-8"	□
x200(E)	82	*5	2'-5"	□
a4100(E)	60	*5	14'-6"	—
a4101(E)	60	*5	14'-6"	—
b4100(E)	156	*4	1'-6"	—
d4100(E)	36	*4	4'-8"	□
d4101(E)	36	*4	4'-7"	□
d4102(E)	36	*4	5'-8"	□
x4100(E)	186	*5	2'-5"	□

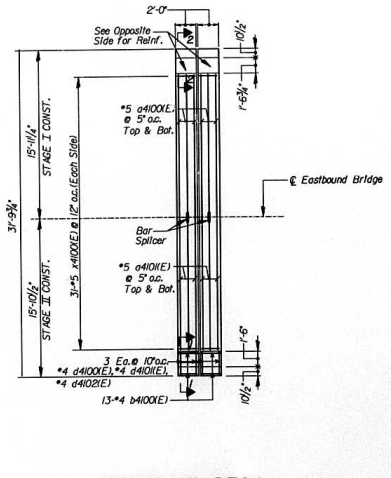
REINFORCEMENT BARS, EPOXY COATED	LBS	3970
CONCRETE SUPERSTRUCTURE	CU YDS	19
PREFORMED JOINT SEAL 1 1/2"	LIN. FT.	33
PREFORMED JOINT SEAL 2 1/2"	LIN. FT.	10
CONCRETE REMOVAL	CU YDS	19
FURNISHING & ERECTING STRUCTURAL STEEL	LBS	2900
BAR SPICERS	EACH	80



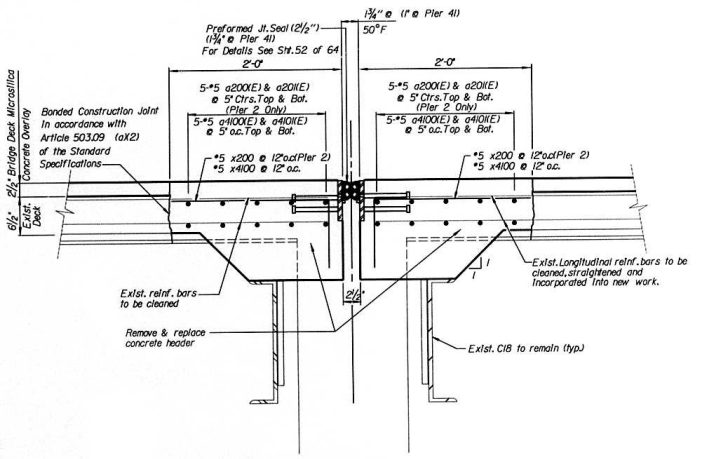
PLAN - CONCRETE REMOVAL
PIERS 2, 41, 42 & 43



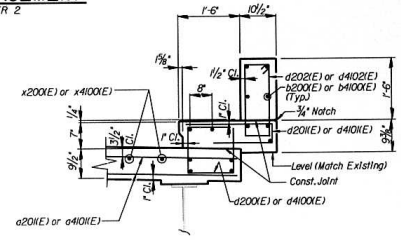
CONCRETE DECK REINFORCEMENT
PIER 2



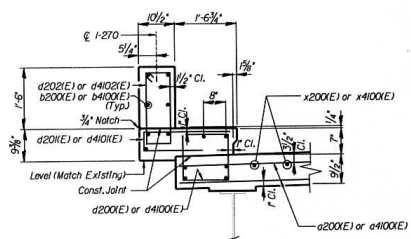
CONCRETE DECK REINFORCEMENT
PIERS 41, 42 & 43



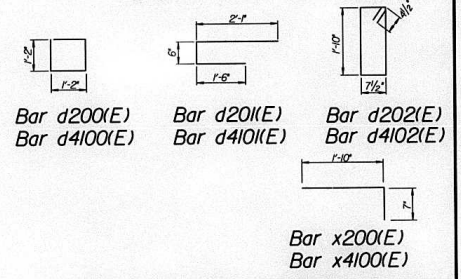
PREFORMED EXPANSION JOINT SEAL AT PIERS 2, 41, 42 & 43



SECTION I-I



SECTION 2-2



Note: Pier numbers may be mis-numbered in the field.

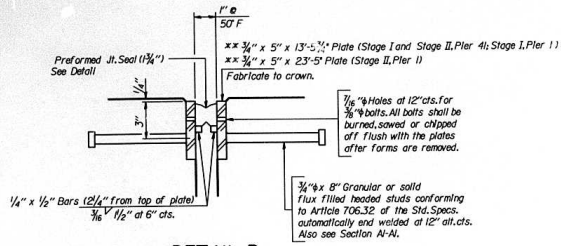
ILLINOIS DEPARTMENT OF TRANSPORTATION
EXPANSION JOINTS AT PIER 2, 41, 42 & 43
MISSISSIPPI RIVER BRIDGE
FA-270 OVER THE MISSISSIPPI RIVER
EASTBOUND BRIDGE REPAIR
SECTION 60B-1-3
MADISON COUNTY
STRUCTURE NUMBER 060-0035

DESIGNED	JN
CHECKED	DM
DRAWN	CD
CHECKED	JN

alfred benesch & company
CONSULTING ENGINEERS
200 NORTH MICHIGAN AVENUE, CHICAGO, ILLINOIS 60601
JOB NO. 3011

DATE 1995

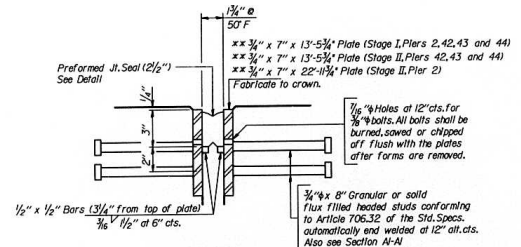
ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-270	*	MADISON	448	391
STA.		TO STA.		
F.H.W.A. REGION		ELLINGS	PROJECT	
*60B-1-3		SHT. 52 OF 64		



DETAIL B

** Furnish in segments of 20 ft. maximum length. Maximum space between installed segments shall be 3/8". Seal space with Silicone Sealant suitable for Structural Steel.

Note: After fabrication, all surfaces of the steel plates shall be given one shop coat of paint specified for structural steel, no field painting required.



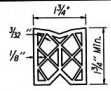
DETAIL A

** Furnish in segments of 20 ft. maximum length. Maximum space between installed segments shall be 3/8". Seal space with Silicone Sealant suitable for Structural Steel.

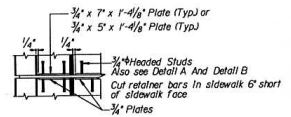
Note: After fabrication, all surfaces of the steel plates shall be given one shop coat of paint specified for structural steel, no field painting required.



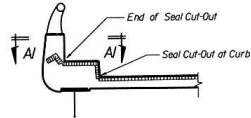
END OF SEAL CUT-OUT SEAL CUT-OUT AT CURB



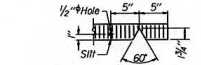
PREFORMED JOINT SEAL (1 3/4")



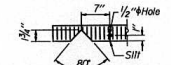
SECTION A-A



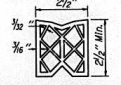
TYPICAL SEAL TREATMENT AT PARAPET & CURB



END OF SEAL CUT-OUT



SEAL CUT-OUT AT CURB



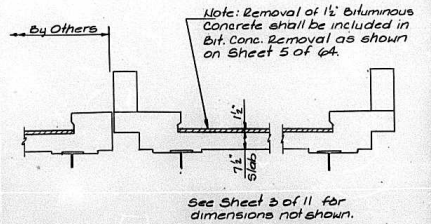
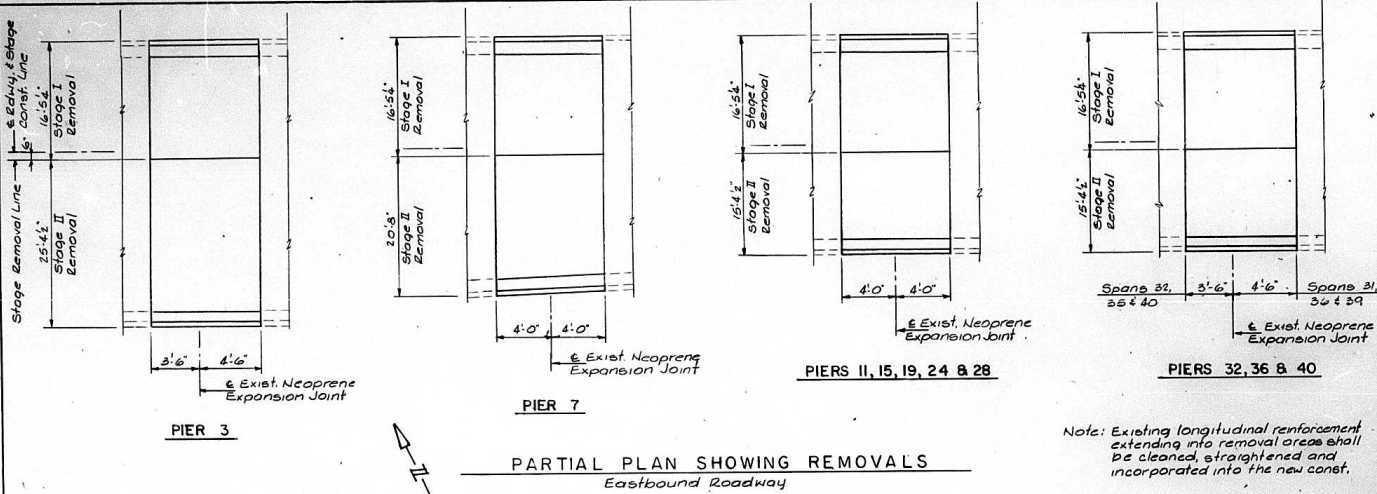
PREFORMED JOINT SEAL (2 1/2")

DESIGNED	JN
CHECKED	DM
DRAWN	CD
CHECKED	JN

alfred benesch & company
CONSULTING ENGINEERS
300 NORTH MICHIGAN AVENUE, CHICAGO, ILLINOIS 60611
JOB NO. 5011

ILLINOIS DEPARTMENT OF TRANSPORTATION
PREFORMED JOINT SEAL DETAILS
MISSISSIPPI RIVER BRIDGE
FAI-270 OVER THE MISSISSIPPI RIVER
EASTBOUND BRIDGE REPAIR
SECTION 60B-1-3
MADISON COUNTY
STRUCTURE NUMBER 060-0035

DATE 1995



EXISTING SECTION THRU
MEDIAN & PARAPET

EXISTING SECTION THRU
CURB & PARAPET

Note: Existing longitudinal reinforcement extending into removal areas shall be cleaned, straightened and incorporated into the new const.

PARTIAL PLAN SHOWING REMOVALS
Eastbound Roadway

BAR LIST

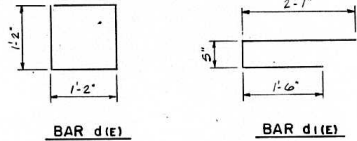
BAR	NUMBER										TOTAL	SIZE	LENGTH	SHAPE
	Pier 3	Pier 7	Pier 11	Pier 15	Pier 19	Pier 24	Pier 28	Pier 32	Pier 36	Pier 40				
a1(E)	24	20	40	40	32	22	40	48	48	48	372	# 8	14'-9"	□
a1(E)	24										24	# 5	24'-9"	□
a2(E)		10									10	# 5	19'-10"	□
a2(E)		10									10	# 5	19'-10"	□
b1(E)	76	68	56	56		56	56	56	56	480	# 6	2'-10"	C	
b1(E)	76	68	56	56		56	56	56	56	480	# 8	3'-5"	C	
b2(E)	52	52	52	52		52	52	52	52	416	# 8	2'-5"	C	
b3(E)					56	56				112	# 6	3'-8"	C	
b4(E)					52	52				104	# 5	3'-4"	C	
b5(E)					56	56				112	# 5	3'-2"	C	
d1(E)	16	16	16	16	16	16	16	16	16	160	# 4	4'-8"	□	
d1(E)	16	16	16	16	16	16	16	16	16	160	# 4	4'-0"	□	
d2(E)	16	16	16	16	16	16	16	16	16	160	# 4	3'-5"	□	

Reinforcement bars designated (E) shall be epoxy coated.

SUBTOTAL
BILL OF MATERIAL

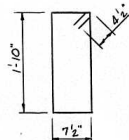
ITEM	UNIT	Pier 3	Pier 7	Pier 11	Pier 15	Pier 19	Pier 24	Pier 28	Pier 32	Pier 36	Pier 40	TOTAL
Concrete Removal	Cu. Yds.	8.9	8.1	7.3	7.3	6.6	6.6	7.1	6.9	7.1	7.1	78.0
Concrete Superstructure	Cu. Yds.	10.0	9.2	8.2	8.1	7.6	7.6	8.0	8.0	8.0	7.9	82.6
Reinforcement Bars Epoxy Coated	Lbs.	2070	1680	1470	1470	1220	1470	1590	1590	1590	1590	15,520
Structural Steel	Lbs.	12,170	22,820	22,820	22,820	24,450	24,450	20,660	9,280	9,280	7,800	159,000
Reinforced Neoprene Exp. Joint Treatment	Foot	39	36	30	30	30	30	30	29	29	29	311
Bar Splicers	Eoan	22	20	20	20	16	16	20	22	22	22	228
Protective Coat	Sq. Yds.	6.6	6.3	6.1	6.1	5.5	5.5	6.6	6.6	6.6	6.6	62.2
Structural Steel Removal	Lbs.	-	4120	4080	4080	4080	4080	3520	-	-	-	25,960

* Quantity is for top & inside surfaces of parapets only

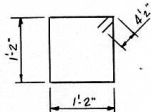


BAR d1(E)

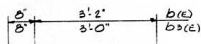
BAR d1(E)



BAR d2(E)

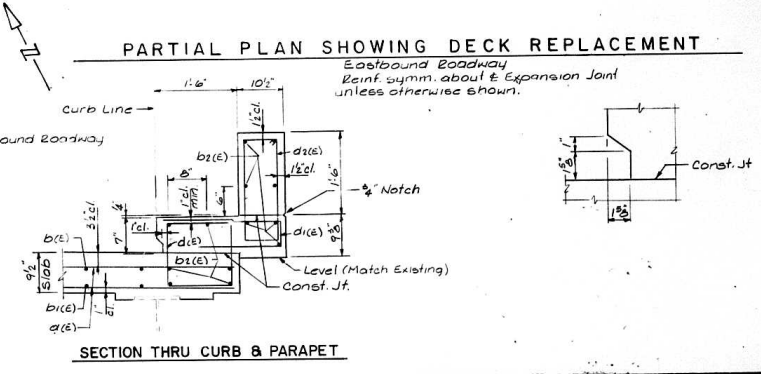
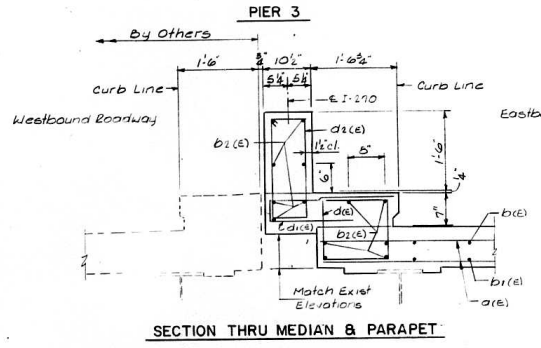
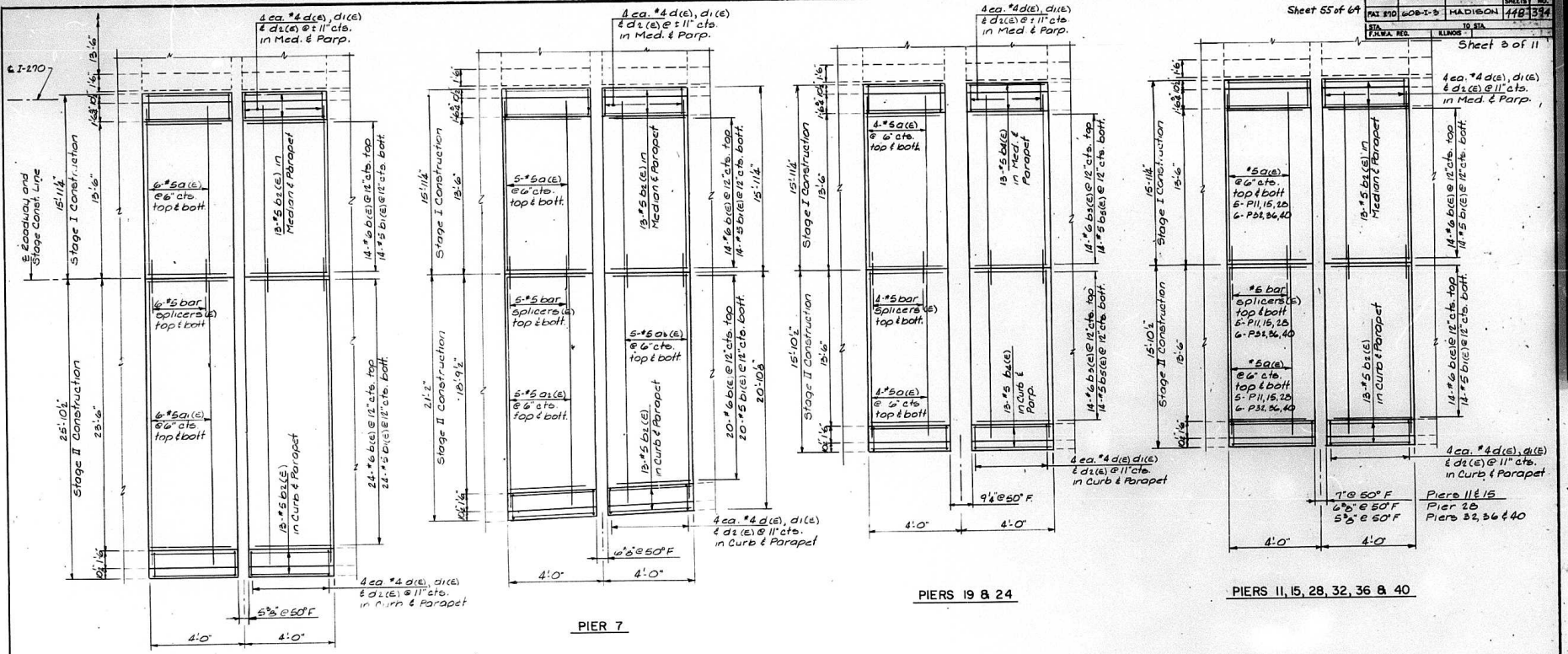


BAR d3(E)



BARS b1(E) & b3(E)

TWP. R1L	SECTION	COUNTY	TOTAL SHEET NO.
PAZ 170	60B-I-3	MADISON	148-394
STA.	10+00	10+00	
Sheet 55 of 11			

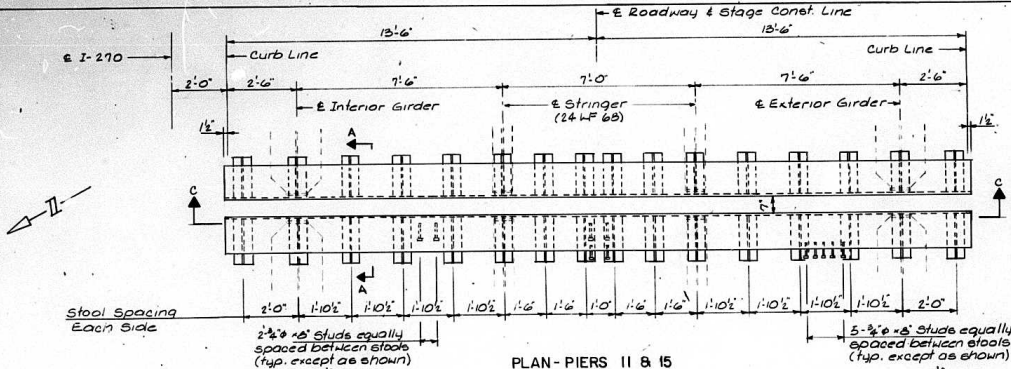


ILLINOIS DEPARTMENT OF TRANSPORTATION
 DECK REPLACEMENT
 EB ROADWAY - FINGER PLATE REPAIRS
 I-270 OVER MISSISSIPPI
 AT CHAIN OF ROCKS
 FA.I. RT. 270 SEC. 60B-I-3
 MADISON CO. ILL.
 STRUCT. 060-0035

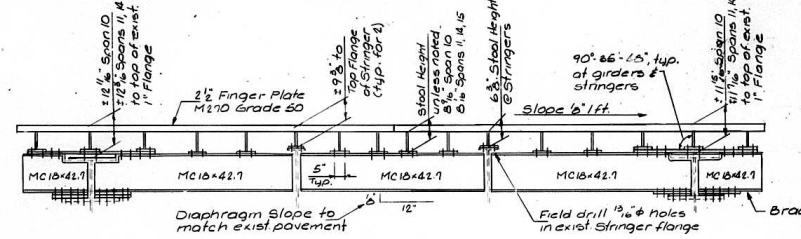
PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
EXP. NO. 60B-1-3		MADISON	448	395
PLAN NO.	I.R.A.			
PLAN NO.	EXP. NO. 60B-1-3			

Sheet 56 of 64

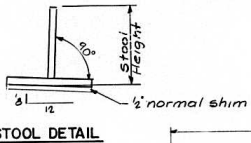
Sheet 4 of 11



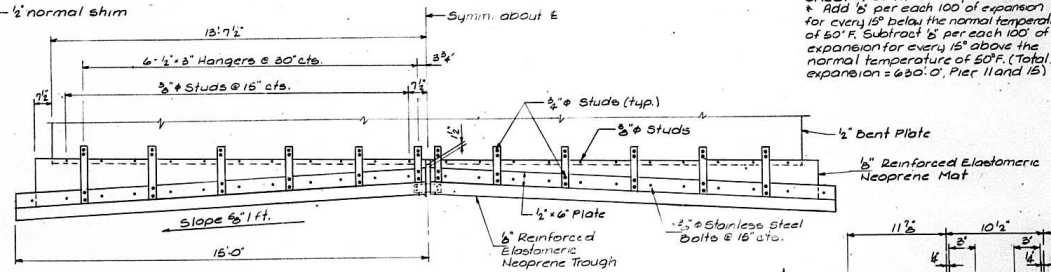
PLAN-PIERS II & 15
Eastbound Roadway



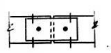
ELEVATION-PIERS II & 15



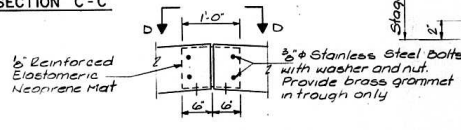
STOOL DETAIL



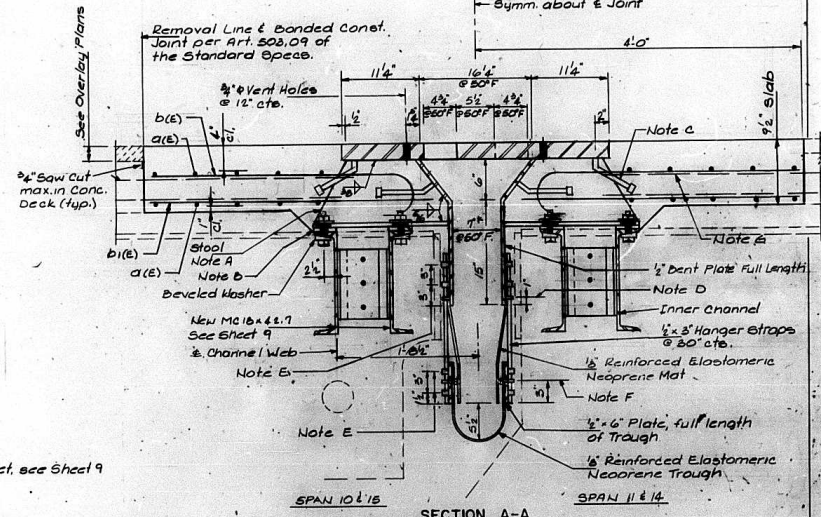
SECTION C-C



VIEW D-D



TROUGH SPLICE DETAIL

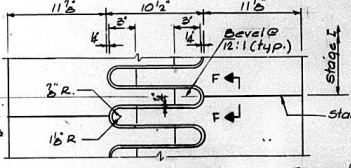


SECTION A-A

NOTES

For details of sliding plates at curb, median and parapet see Sheet 19 of 11.
 Add 1/2" per each 100' of expansion for every 15° below the normal temperature of 50° F. Subtract 1/2" per each 100' of expansion for every 15° above the normal temperature of 50° F. (Total expansion = 620.0", Pier 11 and 15).

- Note A: Stools to be fabricated from 3/4" plates. 2" holes in stool flanges, 3" x 3" square washers 4" x 1/2" @ 15" c/c for connection. 3" steel bolt flange
- Note B: 1/2" normal shim plus one 1/4", one 1/2" & one 1/8" shim for height adjustment.
- Note C: 3/4" x 3" granular or solid flux filled studs conforming to Article 706.32 of the Standard Specs. automatically end welded.
- Note D: 3/4" x 3" studs @ 15" c/c with washer and nut automatically end welded. Provide brass gramma in mat.
- Note E: 2" x 3" x 3" studs with washer and nut automatically end welded.
- Note F: 3/4" x 3" stainless steel bolts @ 15" c/c with washer and nut. Provide brass gramma in trough
- Note G: Existing longitudinal reinforcement extending into removal area shall be cleaned, straightened and incorporated into the new construction.

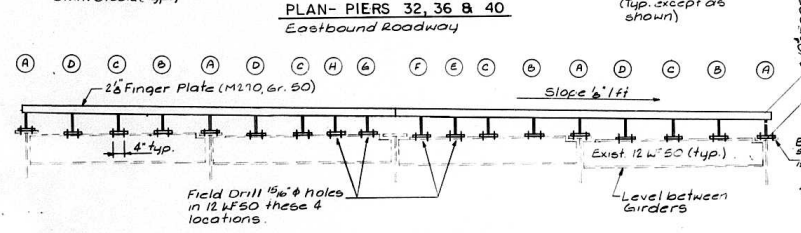
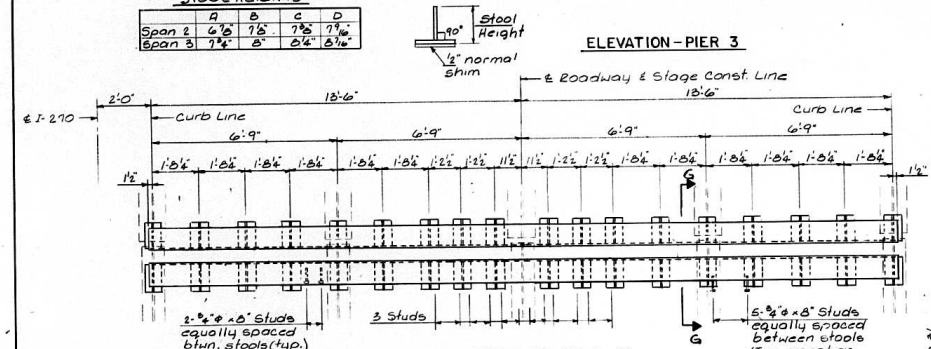
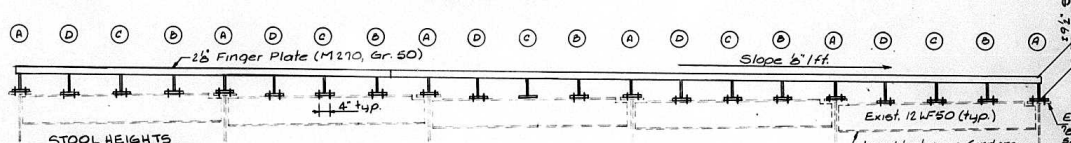
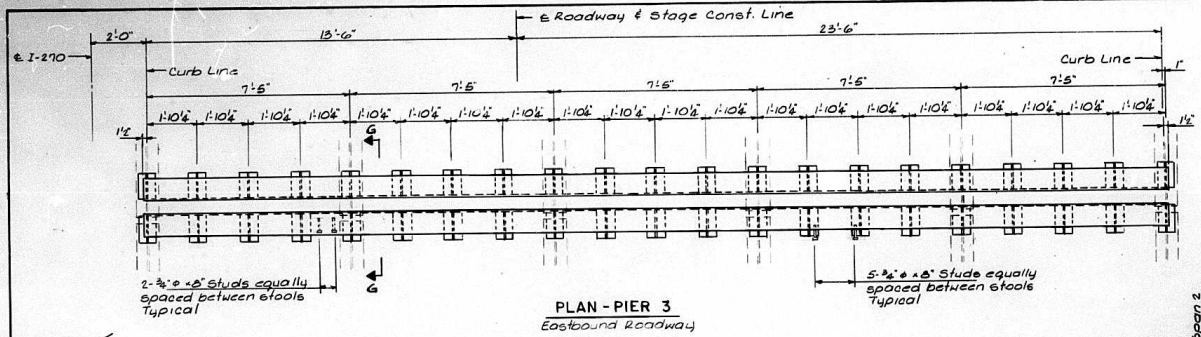


FLAME CUTTING DIAGRAM
Cut from 12 - 2 1/2" x 3 1/4" x 2 1/2" (M210, 4r. 50)
2 Required

ILLINOIS DEPARTMENT OF TRANSPORTATION
 EXPANSION DEVICE AT PIERS II & 15
 EB ROADWAY-FINGER PLATE REPAIRS
 I-270 OVER MISSISSIPPI
 AT CHAIN OF ROCKS
 F.A.I.R.T. 270 SEC. 60B-1-3
 MADISON CO., IL
 STA. 780 00.25 STRUCT. 260-0036

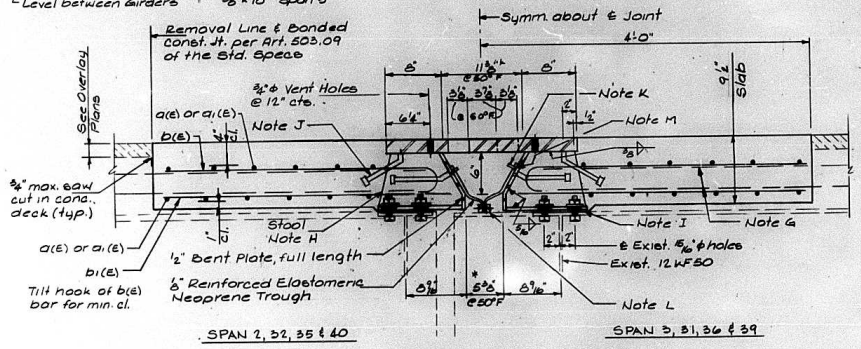
PROJECT	SECTION	COUNTY	SHEET NO.	TOTAL SHEETS
FAIRWAY	608-I-3	MADISON	57	64
FILE NO.	DATE	DESIGNED BY	DRAWN BY	CHECKED BY

Sheet 5 of 11



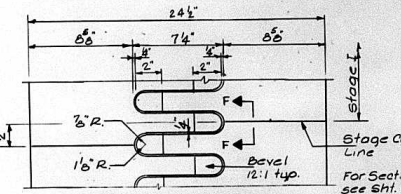
	A	B	C	D	E	F	G	H
Span 31	7 3/8	7 1/2	8 1/8	8 3/8	8 1/2	8 3/4	7 1/2	7 3/8
Span 32, 35, 36 & 39	7 3/8	7 1/2	7 3/4	8	7 3/4	8 1/2	7 1/2	7 3/8
Span 40	8 1/8	7 1/2	7 3/4	7 1/2	7 1/2	7 1/2	7 1/2	7 3/8

- Note G: Existing longitudinal reinforcement extending into removal area shall be cleaned, straightened and incorporated into the new construction.
- Note H: Stools to be fabricated from 3/8" Plates, 2" holes in stool flanges, 5" x 5" x 3/8" square washers, 1/2" x 1/8" bolts each connection, 5" Stool Flange
- Note I: 1" normal shim plus one 1/4", one 5/8" and one 1/2" shim for height adjustment.
- Note J: 3/4" x 8" granular or solid flux filled studs conforming to article 706.02 of the standard Specifications automatically end welded.
- Note K: 3/8" studs @ 18" o.c. with washer and nut, automatically end welded. Provide brose grammet in trough.
- Note L: 2" x 1" bars full length of trough with 3/8" stainless steel bolts @ 12" o.c. with washer and nut.
- Note M: Apply 3/8" bead of silicone sealant suitable for use on painted steel between neoprene mat and steel plate.

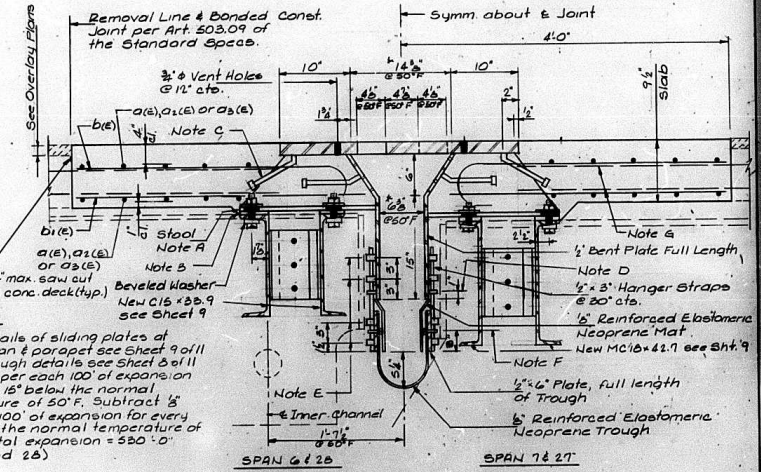
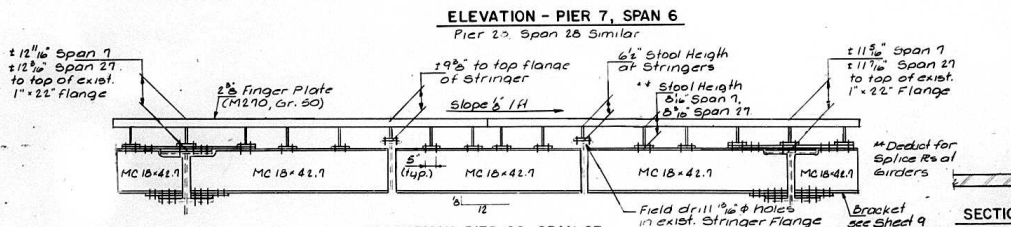
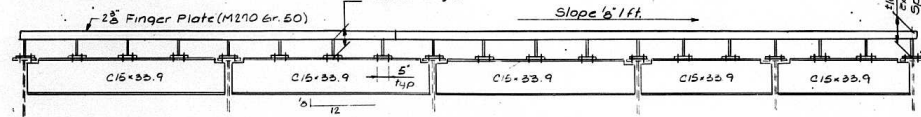
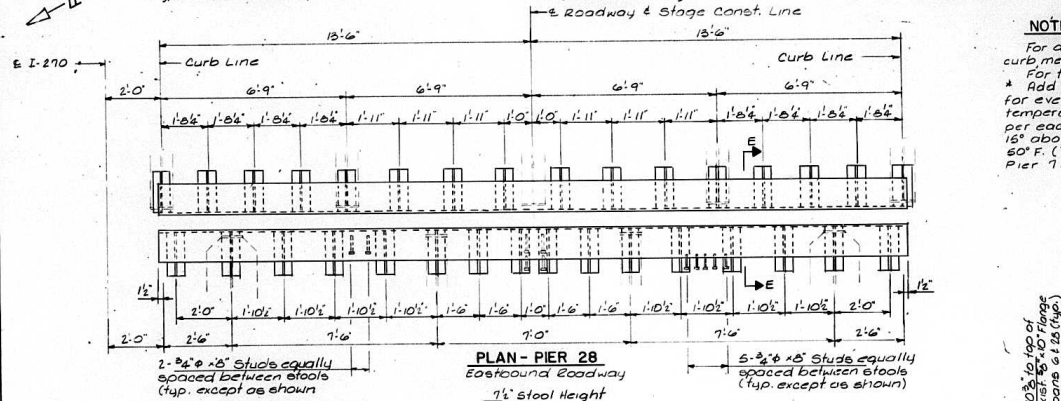
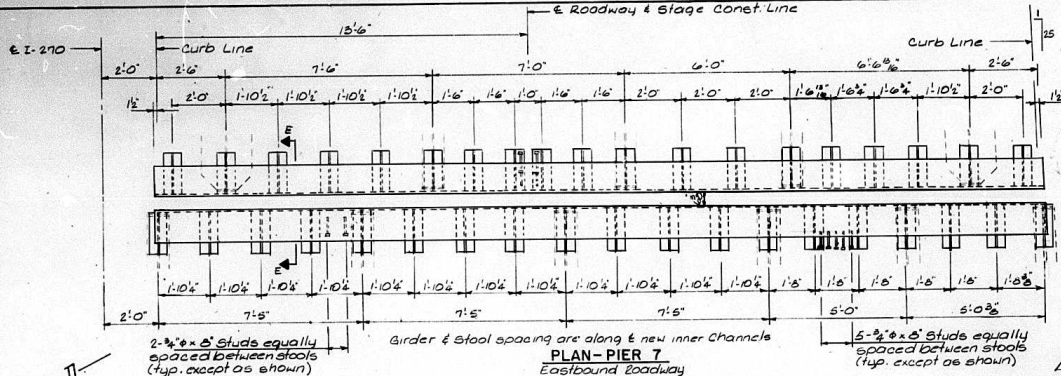


SECTION G-G

NOTES
 For details of sliding plates at curb, median & parapet see sheet 9 of 11
 For details of Trough see sheet 2 of 11
 * Add 1/8" per each 100' of expansion for every 15' below the normal temperature of 50°F.
 Subtract 1/8" per each 100' of expansion for every 15' above the normal temperature of 50°F.
 (Total expansion = 26 1/2" Pier 3, 37 1/2" Pier 32, 31 1/2" Pier 36 and 20 1/2" Pier 40)



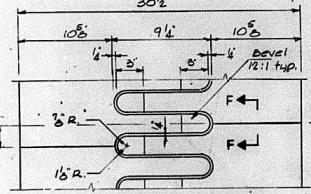
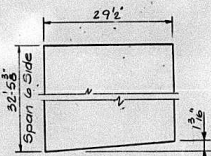
FLAME CUTTING DIAGRAM
 Pier 3 - Cut from R- 25' x 24 1/2' x 27' 3" (M210 Gr.50)
 1 Required
 Piers 32, 36 & 40 - Cut from R- 25' x 24 1/2' x 27' 3" (M210 Gr.50)
 3 Required



NOTES

For details of sliding plates of curb, median & parapet see Sheet 9 of 11
 For trough details see Sheet 8 of 11
 * Add 6" per each 100' of expansion for every 15" below the normal temperature of 50° F. Subtract 3" per each 100' of expansion for every 15" above the normal temperature of 50° F. (Total expansion = 530' 0" Pier 7 and 28)

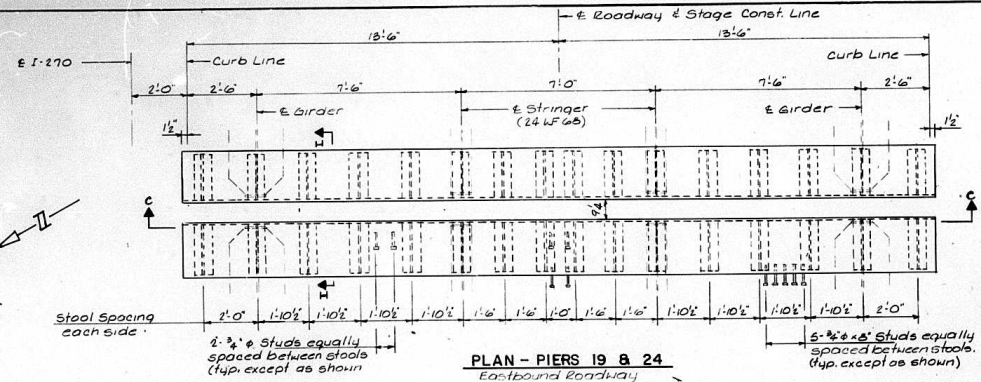
Field drill 1/8" holes at inner channel in exist. 10" x 10" Flange
 Holes at outer channel in stool to match holes in exist. 2 1/2" x 10" Flange (Typ all girders Span 6 & 28)



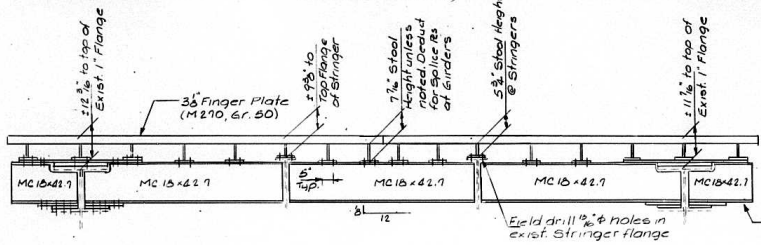
Pier 7 - Cut from R-28 x 30 1/2 x 32 1/2 S3 (M270, Gr. 50) See Detail
 Pier 28 - Cut from R-28 x 30 1/2 x 27 1/2 (M270, Gr. 50)

PLATE - PIER 7

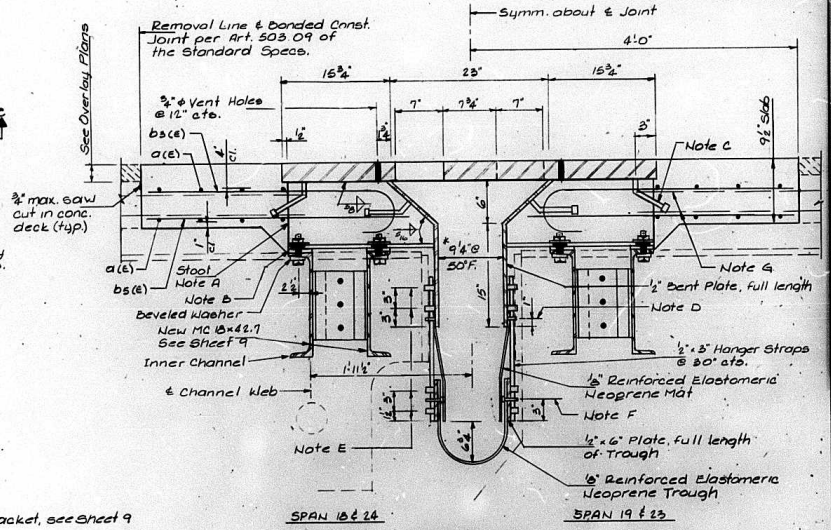
ILLINOIS DEPARTMENT OF TRANSPORTATION
 EXPANSION DEVICE AT PIERS 7 & 28
 EB ROADWAY - FINGER PLATE REPAIRS
 I-270 OVER MISSISSIPPI
 AT CHAIN OF ROCKS
 FA.I. RT. 270
 SEC. 60B-1-3
 MADISON CO., IL
 STRUC. 060-0035



PLAN - PIERS 19 & 24
Eastbound Roadway



ELEVATION - PIERS 19 & 24

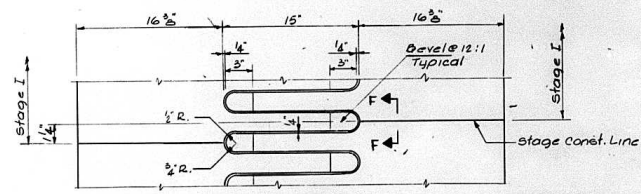


SECTION - H-H

For Notes A thru G see Sheet 4

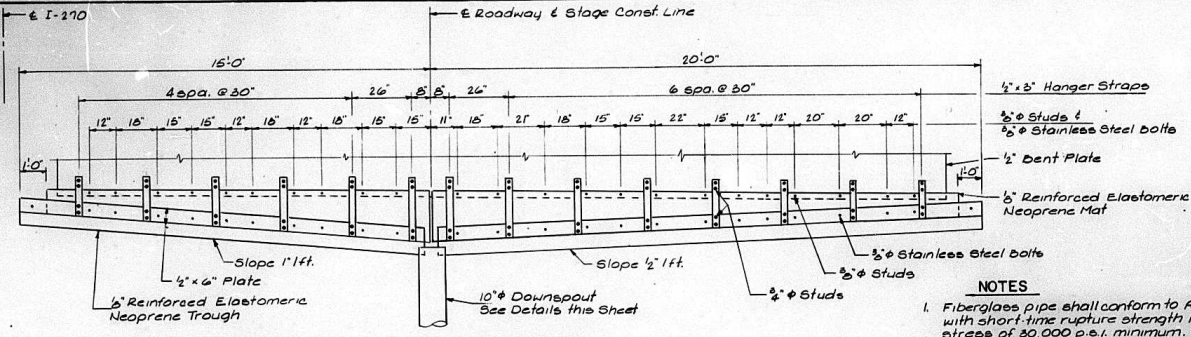
NOTES

- For details of sliding plates at curb, median and parapet see Sheet 9 of 11
- For Section C-C (Trough Details) see Sheet 4 of 11
- Add 1/8" per each 100' of expansion for every 15° below the normal temp. of 50°F. Subtract 1/8" per each 100' of expansion for every 15° above the normal temperature of 60°F. (Total expansion = 751'-6" Pier 19 and 999'-0" Pier 24)



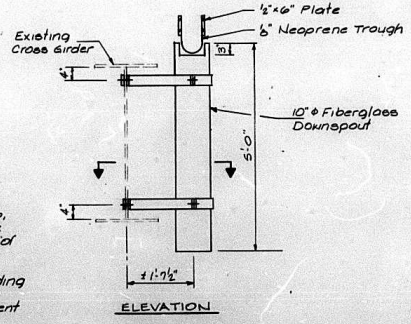
FLAME CUTTING DIAGRAM
cut from R-36 x 47 1/2" x 27'-3" (M270 Gr. 50)
2 Required

ILLINOIS DEPARTMENT OF TRANSPORTATION
EXPANSION DEVICE AT PIERS 19 & 24
EB ROADWAY - FINGER PLATE REPAIRS
I-270 OVER MISSISSIPPI
AT CHAIN OF ROCKS
FA.I. RT. 270 SEC. 608-1-3
MADISON CO., IL
STA. 780.0025 STRUCT. 060-0035

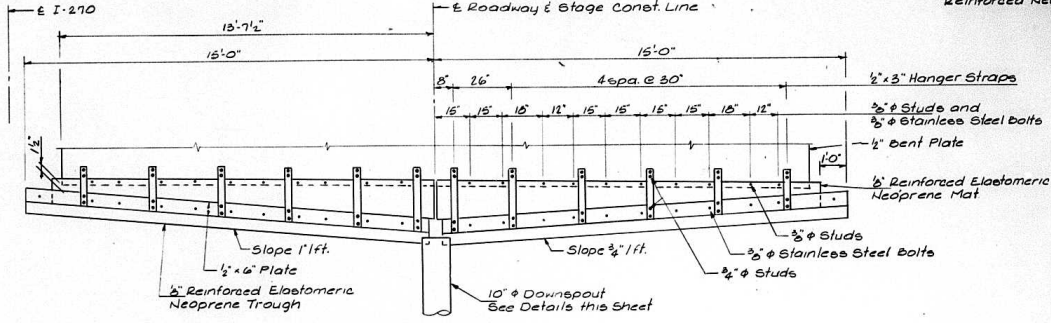


TROUGH DETAILS - PIER 7

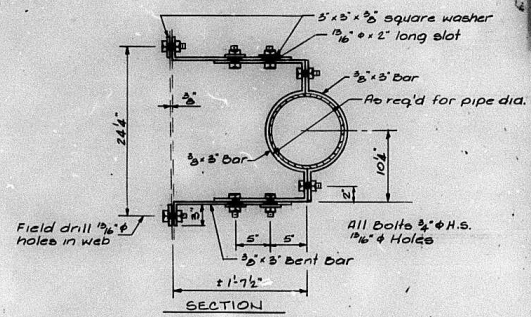
- NOTES**
- Fiberglass pipe shall conform to ASTM D2994, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum. The surface of the fiberglass pipe shall be free of bond inhibiting agents.
 - Cost of the fiberglass pipe & all parts including installation shall be incidental to the item Reinforced Neoprene Expansion Joint Treatment.



ELEVATION

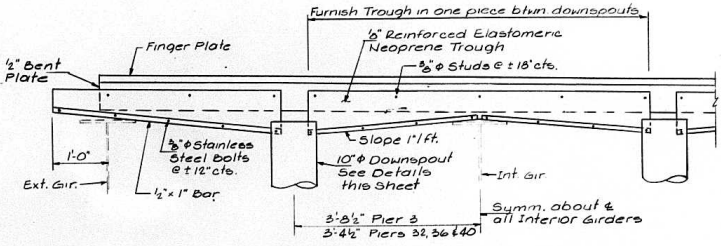


TROUGH DETAILS - PIER 28

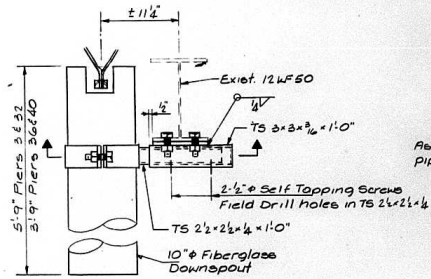


SECTION

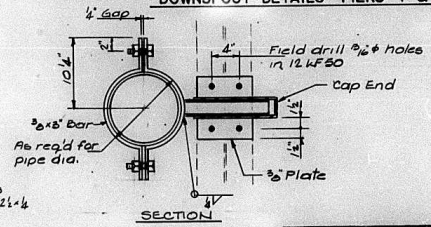
DOWNSPOUT DETAILS - PIERS 7 & 28



TROUGH DETAILS - PIERS 3, 32, 36 & 40



ELEVATION



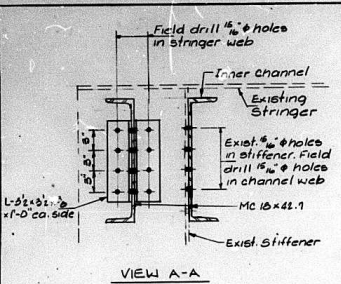
SECTION

DOWNSPOUT DETAILS - PIERS 3, 32, 36 & 40

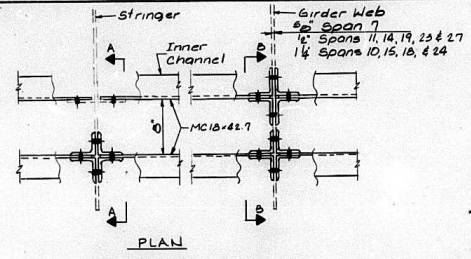
ILLINOIS DEPARTMENT OF TRANSPORTATION
TROUGH DETAILS
 EB ROADWAY - FINGER PLATE REPAIRS
 I-270 OVER MISSISSIPPI
 AT CHAIN OF ROCKS
 F.A.I. RT. 270 SEC. 60B-1-3
 STA. 780 0025 MADISON CO., IL
 STRUCT. 060-0035

Sheet 61 of 64

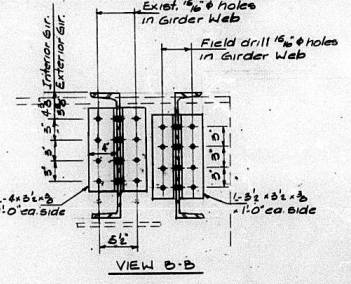
Sheet 9 of 11



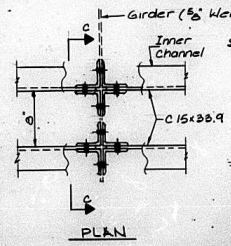
VIEW A-A



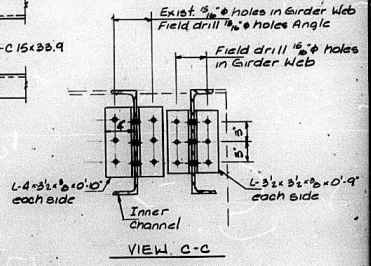
PLAN



VIEW D-B

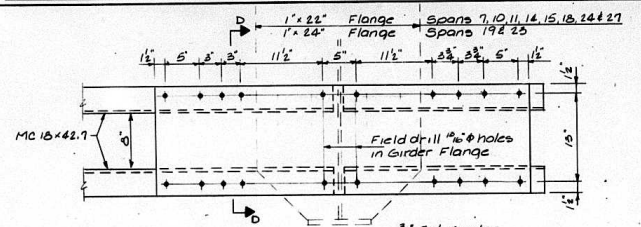


PLAN



VIEW C-C

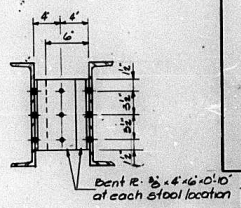
DIAPHRAGM DETAILS - SPANS 7, 10, 11, 14, 15, 18, 19, 23, 24 & 27



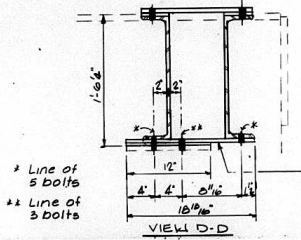
ELEVATION

DIAPHRAGM BRACING
(Typical in all spans)

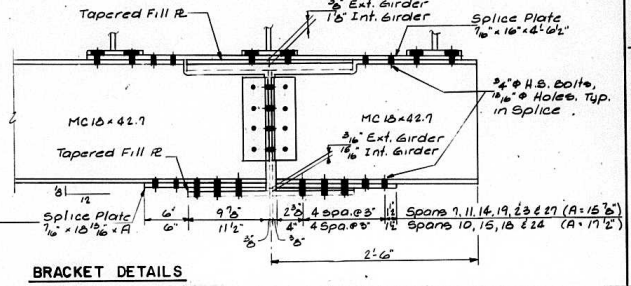
DIAPHRAGM DETAILS - SPANS 6 & 28



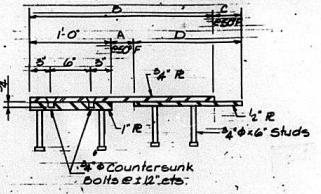
DIAPHRAGM BRACING
(Typical in all spans)



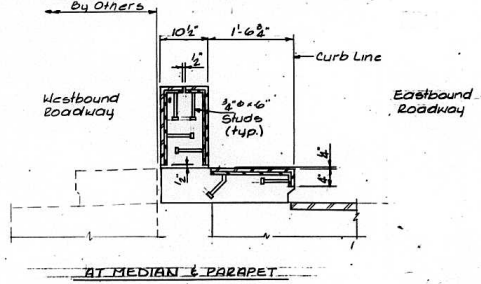
VIEW D-D



BRACKET DETAILS



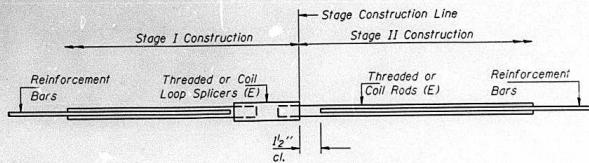
	A	B	C	D
Piers 3, 32, 36 & 40	25	26	26	10 1/2
Piers 7 & 23	26	27	28	10 1/2
Piers 11 & 15	27	28	28	11
Piers 19 & 24	28	29	29	10 1/2



SLIDING PLATE DETAILS

NOTE - TYP. ALL DIAPHRAGMS
All Diaphragm Connections, including Bent Plate Brackets: 2" x 4" H.S. Bolts, 1/4" Holes, Hardened Washers per Bolt, (one each side)

ILLINOIS DEPARTMENT OF TRANSPORTATION
STEEL DETAILS
EB ROADWAY - FINGER PLATE REPAIRS
I-270 OVER MISSISSIPPI
AT CHAIN OF ROCKS
F.A.I. RT. 270 SEC. 60B-1-3
MADISON CO., ILL.
STA. 780+00.25 STRUCT. 080-0035



SPLICER DETAIL

Bar Size	No. Req'd. (Splicers)	Location
#5	208	SLAB

The diameter of this part of Splicer is the same as the diameter of the bar spliced.

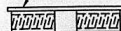
The diameter of this part is equal or larger than the diameter of bar spliced.

ROLLED THREAD DOWEL BAR



**** ONE PIECE**

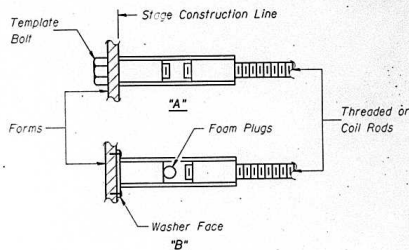
Wire Connector



WELDED SECTIONS

SPLICER ALTERNATIVES

** Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



INSTALLATION AND SETTING METHODS

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

NOTES

Steel Splicer (Coupler) assembly shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.
 Steel Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length. All reinforcement bars shall be lapped and tied to the splicer rods.
 Splicer (coupler) assembly shall be epoxy coated in accordance with the requirements for reinforcement bars.
 Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed splicer (coupler) assembly satisfies the following requirements:

- Minimum Capacity = $1.25 \times f_y \times A_1$
 (Tension in kips)
 Minimum *Pull-out Strength = $1.25 \times f_{s_{allow}} \times A_1$
 (Tension in kips)
- Where f_y = Yield strength of lapped reinforcement bars in ksi.
 $f_{s_{allow}}$ = Allowable tensile stress in lapped reinforcement bars in ksi (Service Load)
 A_1 = Tensile stress area of lapped reinforcement bars.
 * = 28 day concrete

Typical Splicer (Coupler) Assembly Sizes:

- #5 bar lap with $3/4"$ Splicer (Coupler) x 2'-0" Splicer Rods: Minimum Capacity = 23.0 kips-tension, Minimum Pull-out Strength = 9.2 kips-tension
- #6 bar lap with $7/8"$ Splicer (Coupler) x 2'-7" Splicer Rods: Minimum Capacity = 33.1 kips-tension, Minimum Pull-out Strength = 13.3 kips-tension
- #7 bar lap with 1" Splicer (Coupler) x 3'-5" Splicer Rods: Minimum Capacity = 45.1 kips-tension, Minimum Pull-out Strength = 18.0 kips-tension
- #8 bar lap with $1 1/4"$ Splicer (Coupler) x 4'-6" Splicer Rods: Minimum Capacity = 58.9 kips-tension, Minimum Pull-out Strength = 23.6 kips-tension

Bar splicer assemblies shall be in accordance with Section 508 of the Standard Specifications, except as noted. The furnishing and installation of bar splicer assemblies will be measured and paid for at the contract unit price each for "BAR SPLICERS."

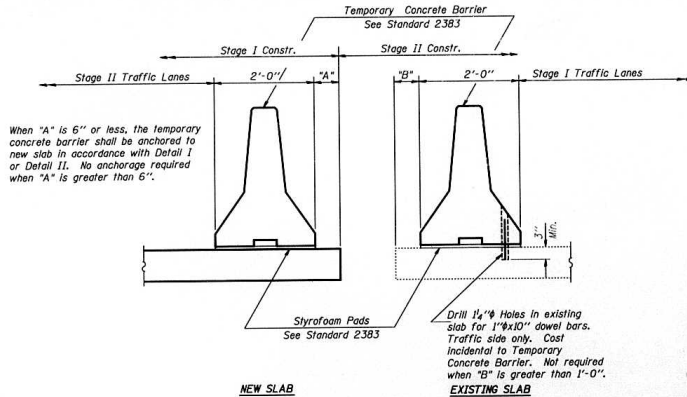
ILLINOIS DEPARTMENT OF TRANSPORTATION

BAR SPLICERS

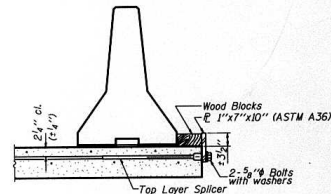
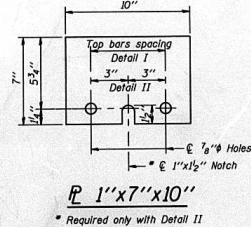
EB ROADWAY - FINGER PLATE REPAIRS - I-270 OVER MISSISSIPPI AT CHAIN OF ROCKS

F.A.I. RT. 270 SEC. 60B-I-3
 MADISON CO., IL.
 STA. 780+00.25 STRUCT. 060-0035

ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-270	*	MADISON	449	403
STA.	TO STA.			
F.H.W.A. REGION	ILLINOIS		PROJECT	
60B-1-3			SHT. 64 OF 64	

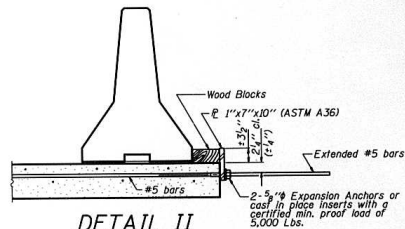


NEW SLAB
EXISTING SLAB
SECTIONS THRU SLAB



DETAIL I

The 1" x 7" x 10" Plate shall not be removed until Stage II Construction forms and reinforcement bars are in place.



DETAIL II

The 1" x 7" x 10" Plate shall not be removed until Stage II Construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

NOTES

- Detail I - With Bar Splicer or Couplers:**
Connect one (1) 1" x 7" x 10" steel \bar{E} to the top layer of couplers with 2-5/8" bolts screwed to coupler of approximate \bar{E} of each 10'-0" barrier panel.
- Detail II - With Extended Reinforcement Bars:**
Connect one (1) 1" x 7" x 10" steel \bar{E} to the concrete slab with 2-5/8" Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate \bar{E} of each 10'-0" barrier panel.
Cost of anchorage is incidental to Temporary Concrete Barrier.

ILLINOIS DEPARTMENT OF TRANSPORTATION
TEMPORARY CONCRETE BARRIER
FOR STAGE CONSTRUCTION
FAI-270 OVER THE MISSISSIPPI RIVER
EASTBOUND BRIDGE REPAIR
SECTION 60B-1-3
MADISON COUNTY
STRUCTURE NUMBERS 060-0035

DATE 1995

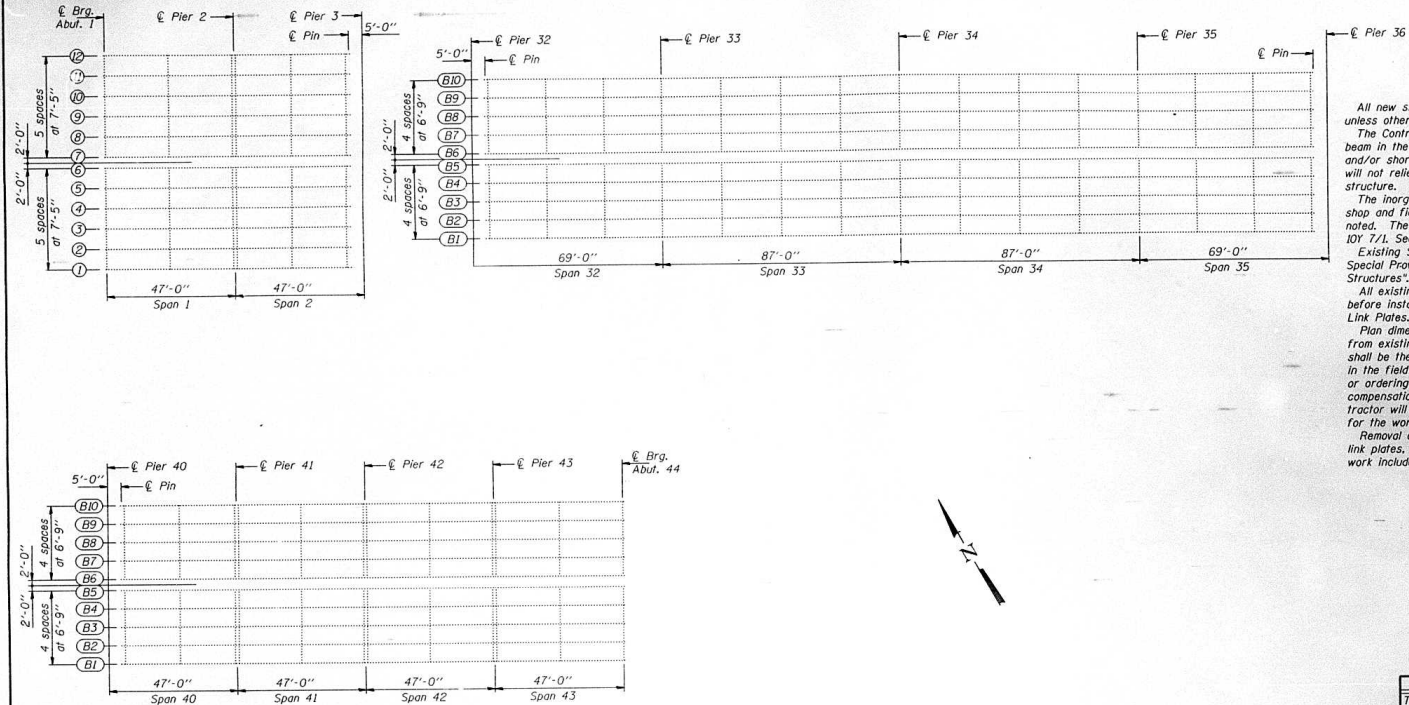
DESIGNED	JN
CHECKED	DM
DRAWN	CD
CHECKED	JN



alfred benesch & company
CONSULTING ENGINEERS
305 NORTH MICHIGAN AVENUE, CHICAGO, ILLINOIS 60601
JOB NO. 3011

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET	NO.	SHEET NO. 1
FAT 270	#	MADISON	448	404	2 SHEETS
FEDERAL DIST. NO. 1		ALLIANCE		FED. PROJ. NO.	



PARTIAL PLAN
Replace all Existing Pins and Link plates.

NOTES

- All new structural steel shall conform to AASHTO Classification M-270 Gr. 36, unless otherwise noted.
- The Contractor shall provide support and/or shoring systems for the beam in the area of existing pin and link plate replacement. The support and/or shoring systems shall be approved by the Engineer. Such approval will not relieve the Contractor of responsibility for the safety of the structure. See Special Provisions for "Temporary Support System."
- The inorganic zinc rich primer/acrylic/acrylic paint system shall be used for shop and field painting of new structural steel except where otherwise noted. The color of the acrylic finish coat shall be Light Grey, Munsell No. 10Y 7/1. See Special Provisions "Cleaning and Painting Metal Structures".
- Existing structural steel shall be cleaned and painted as required by the Special Provision "Cleaning and Painting Adjacent Areas of Existing Steel Structures". Cost incidental to "Erecting Pins and Link Plates."
- All existing steel surfaces behind link plates shall be cleaned and primed before installation of new link plates. Cost incidental to "Erecting Pins and Link Plates."
- Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
- Removal of the existing pins and link plates and erection of the new pins, link plates, bushings, shim plates, nuts and silicone sealant are the items of work included in "Erecting Pins and Link Plates".

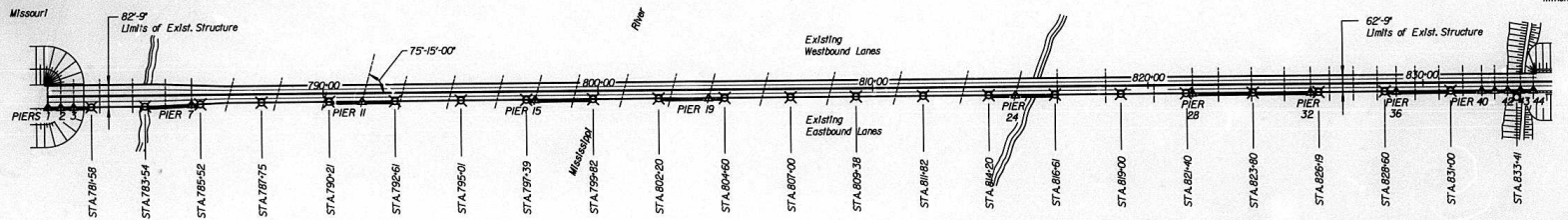
BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Temporary Support System	Each	42
Erecting Pins and Link Plates	Each	42

ERECTING PINS AND LINK PLATES
F.A.I. ROUTE 270 SEC. 60B-1-3
MADISON COUNTY
STA. 780+00.25
STR. No. 060-0035

DESIGNED <i>Ch. Mahony</i>	AUGUST 18, 1995
CHECKED <i>Paul Summer</i>	EXAMINED <i>Paul Summer</i> ENGINEER OF STRUCTURAL SERVICES
DRAWN <i>Paul Summer</i>	PASSED
CHECKED <i>CHM AYB AVV</i>	ENGINEER OF BRIDGES AND STRUCTURES

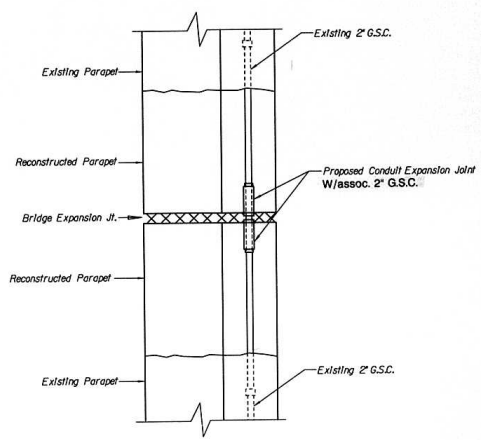
Note: All details and notes relative to furnishing the new Pins and Link Plates are for information only, to be furnished by others.



PLAN OF EXISTING & REHABILITATED BRIDGE

LEGEND

- ⊗ EXISTING ROADWAY LIGHTING
- △ CONDUIT EXPANSION JOINT DETAIL
- CABLE REPLACEMENT



NOTE.
 REPLACE ELECTRICAL CABLE BETWEEN ROADWAY LIGHTING, WHERE CONDUIT EXPANSION JOINTS ARE REQUIRED.
 ALL LIGHTS TO OPERATE FROM DUSK TO DAWN DAILY.
 REPLACE CONDUIT EXPANSION JOINT BACK INTO RECONSTRUCTED PARAPET.

BILL OF MATERIAL

ITEM	UNIT	TOTAL
ELECTRICAL CONDUCTORS IN CONDUIT, 600 (XLP-TYPE USE) 1/C No.6	FOOT	5300
ELECTRICAL CONDUCTOR IN CONDUIT, 600 (XLP-TYPE USE) 1/C No.8	FOOT	2650
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	2650

**PLAN
 CONDUIT EXPANSION JOINT DETAILS**

ILLINOIS DEPARTMENT OF TRANSPORTATION
 ELECTRICAL CABLE REPLACEMENT
 MISSISSIPPI RIVER BRIDGE
 FAI-270 OVER THE MISSISSIPPI RIVER
 EASTBOUND BRIDGE REPAIR
 SECTION 60B-1-3
 MADISON COUNTY
 STRUCTURE NUMBER, 060-0035

DATE 1995

DESIGNED	JN
CHECKED	DM
DRAWN	CD
CHECKED	JN

alfred benesch & company
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 205 NORTH MICHIGAN AVENUE, CHICAGO, ILLINOIS 60601
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