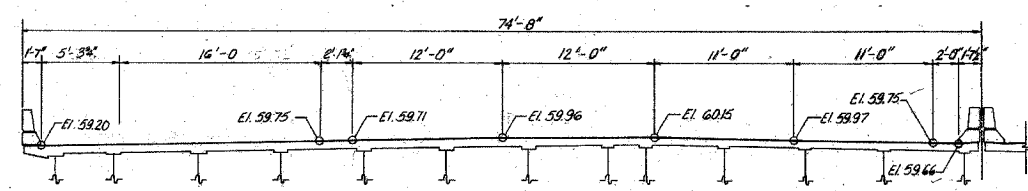


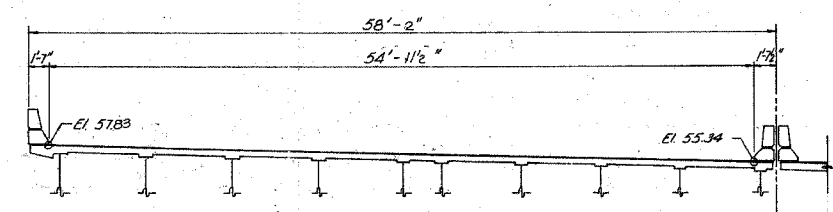
F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

62581

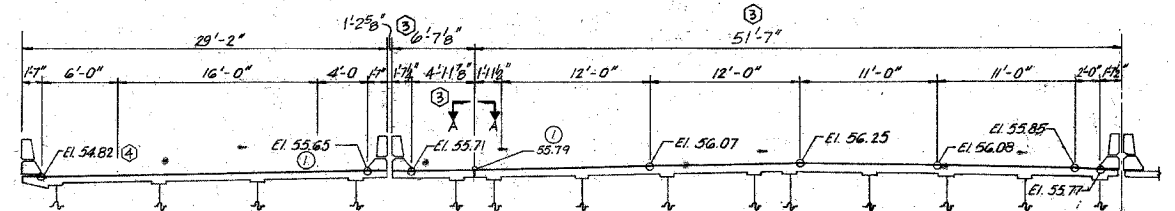
FEDERAL AID PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/54	*	COOK	89	41
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
* 1985-082 R				



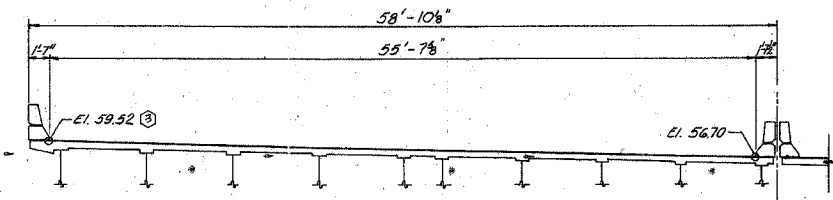
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4in. NEOPRENE



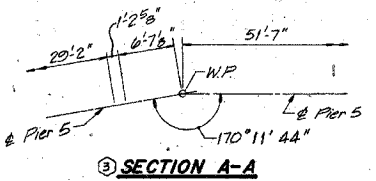
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4in. PREFORMED JOINT SEAL



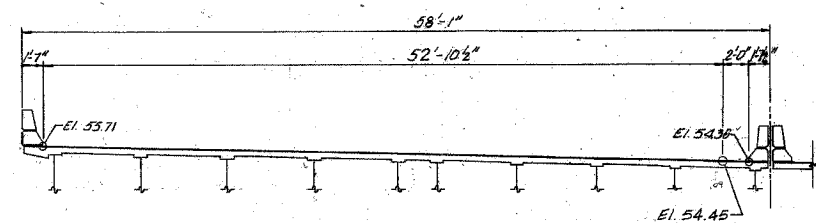
② EXPANSION JOINT AT PIER No. 5
4in. NEOPRENE



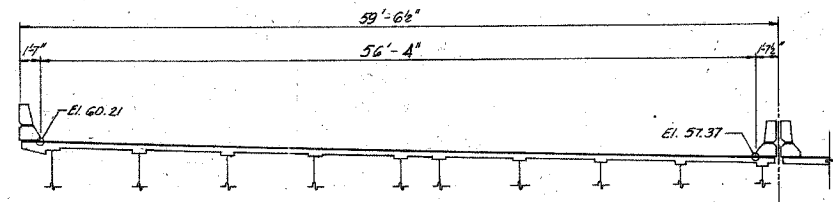
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4in. PREFORMED JOINT SEAL



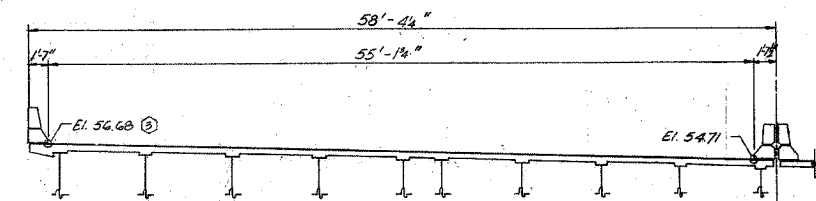
③ SECTION A-A



② EXPANSION JOINT AT PIER No. 8
2 1/2 in. PREFORMED JOINT SEAL



② EXPANSION JOINT AT PIER No. 13
2in. NEOPRENE



② EXPANSION JOINT AT PIER No. 9
2in. NEOPRENE

SHEET 841 OF 89

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.I. ROUTE 90/94 (DAN RYAN EXPRESSWAY)
SECTION 1985-082 R- COOK COUNTY
S.B. MAINLINE RECONSTRUCTION
STRUCTURE 016-1118
TRANSVERSE DECK JOINT ELEVATION

Scale: NONE
Date: AUGUST 14, 1987
LDrawn By: A.V.
Checked By: M.E.M.
ENVIRODYNE ENGINEERS INC.
Chicago, Illinois

REVISIONS	NAME	DATE
②	Revision	2-5-88
③	Revision	5-11-88
①		

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CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
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FOR INFORMATION ONLY

REVISIONS	NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
SB DAN RYAN ELEVATED BRIDGE
REPAIR FROM 15TH TO 28TH STREETS
EXISTING PLAN INFORMATION
SN 016-1115

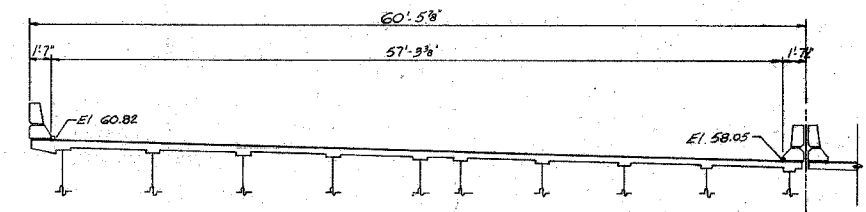
SCALE: NTS
DATE: 5/25/2006

DRAWN BY: MTR
CHECKED BY: BLU

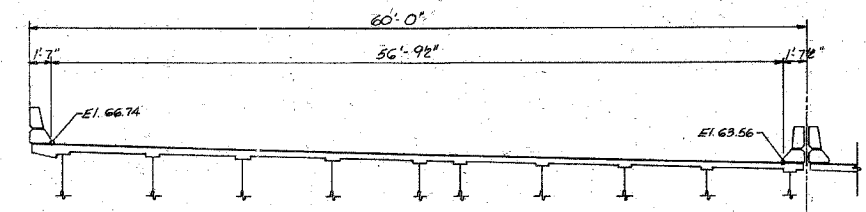
4/19/05 PM 5/23/2006

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	2003-0291	COOK	344	301
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
62581				

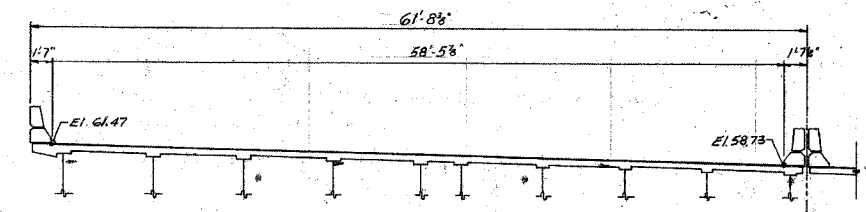
FEDERAL AID ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	*	COOK	89	42
STA.	TO STA.			
FED. NO. DIST. NO.	ILLINOIS	FED. AID PROJECT		
*1985-082 R				



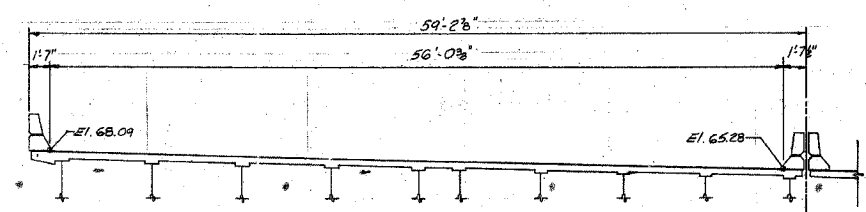
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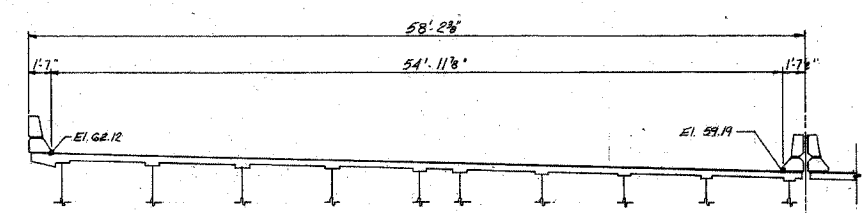
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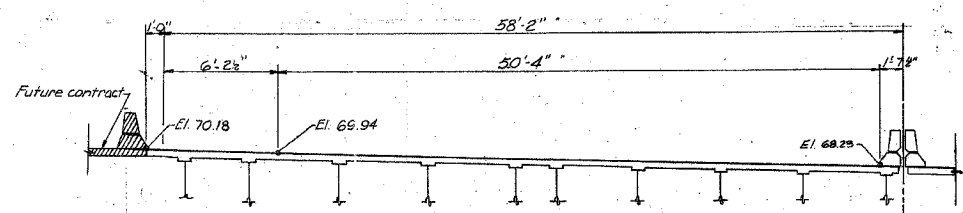
EXPANSION JOINT AT PIER No. 15
2 in. NEOPRENE



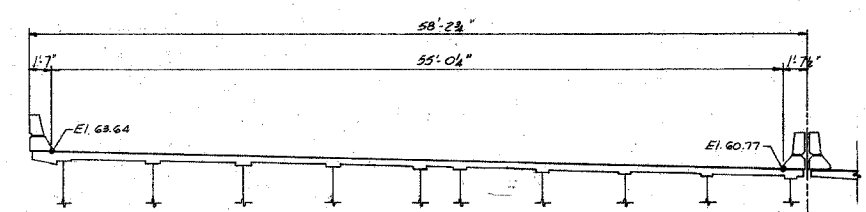
EXPANSION JOINT AT PIER No. 21
2 1/2 in. PREFORMED JOINT SEAL



EXPANSION JOINT AT PIER No. 16
2 1/2 in. NEOPRENE



EXPANSION JOINT AT PIER No. 22
4 in. NEOPRENE



EXPANSION JOINT AT PIER No. 18
2 1/2 in. NEOPRENE

SHEET G 42 OF G 89

REVISIONS	
Name	Date
Revision	2-11-99

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.I. ROUTE 90/94 (DAN RYAN EXPRESSWAY)
SECTION 1985-082 R - COOK COUNTY
S.B. MAINLINE RECONSTRUCTION
STRUCTURE 016-1115
TRANSVERSE DECK JOINT ELEVATION
Scale: NONE
Date: AUG. 14, 1987
Drawn By: A.V.
Checked By: M.E.M.
ENVIRODYNE ENGINEERS INC.
Chicago, Illinois

BOWMAN, BARRETT & ASSOCIATES INC
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
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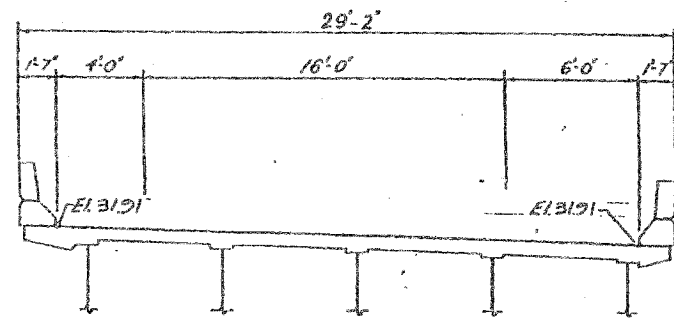
FOR INFORMATION ONLY

REVISIONS	
NAME	DATE

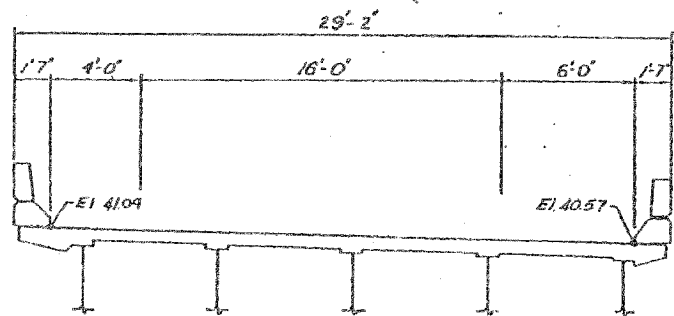
ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
SB DAN RYAN ELEVATED BRIDGE
REPAIR FROM 15TH TO 28TH STREETS
EXISTING PLAN INFORMATION
SN 016-1115
SCALE: NTS
DATE: 5/25/2006
DRAWN BY: MTR
CHECKED BY: BLU

420005 PM 5/23/2006

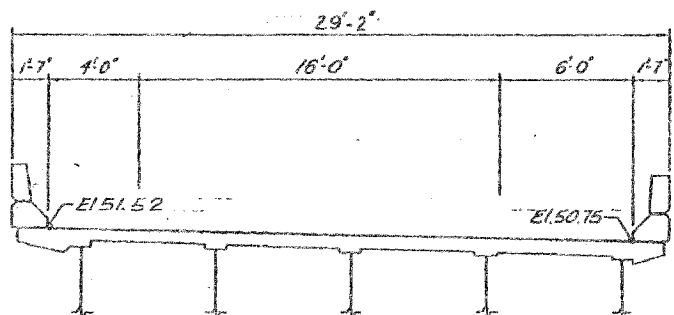
F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	2003-0291	COOK	344	302
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
62581				



② EXPANSION JOINT AT PIER No. 61
2 1/2 in. PREFORMED JOINT SEAL



EXPANSION JOINT AT PIER No. 57
4 in. NEOPRENE



② EXPANSION JOINT AT PIER No. 53
2 in. NEOPRENE

SHEET H 23 OF H 69

REVISIONS	
Name	Date
① Revision	6-5-08

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.I. ROUTE 90/94 (DAN RYAN EXPRESSWAY)
SECTION 1905 - 052 R - COOK COUNTY
S.B. MAINLINE RECONSTRUCTION
STRUCTURE 016 - 1046
TRANSVERSE DECK JOINT ELEVATION
Scale: NONE
Date: AUG. 14, 1997
Drawn By: A.Y.
Checked By: M.E.M.
ENVIRODYNE ENGINEERS INC.
Chicago, Illinois

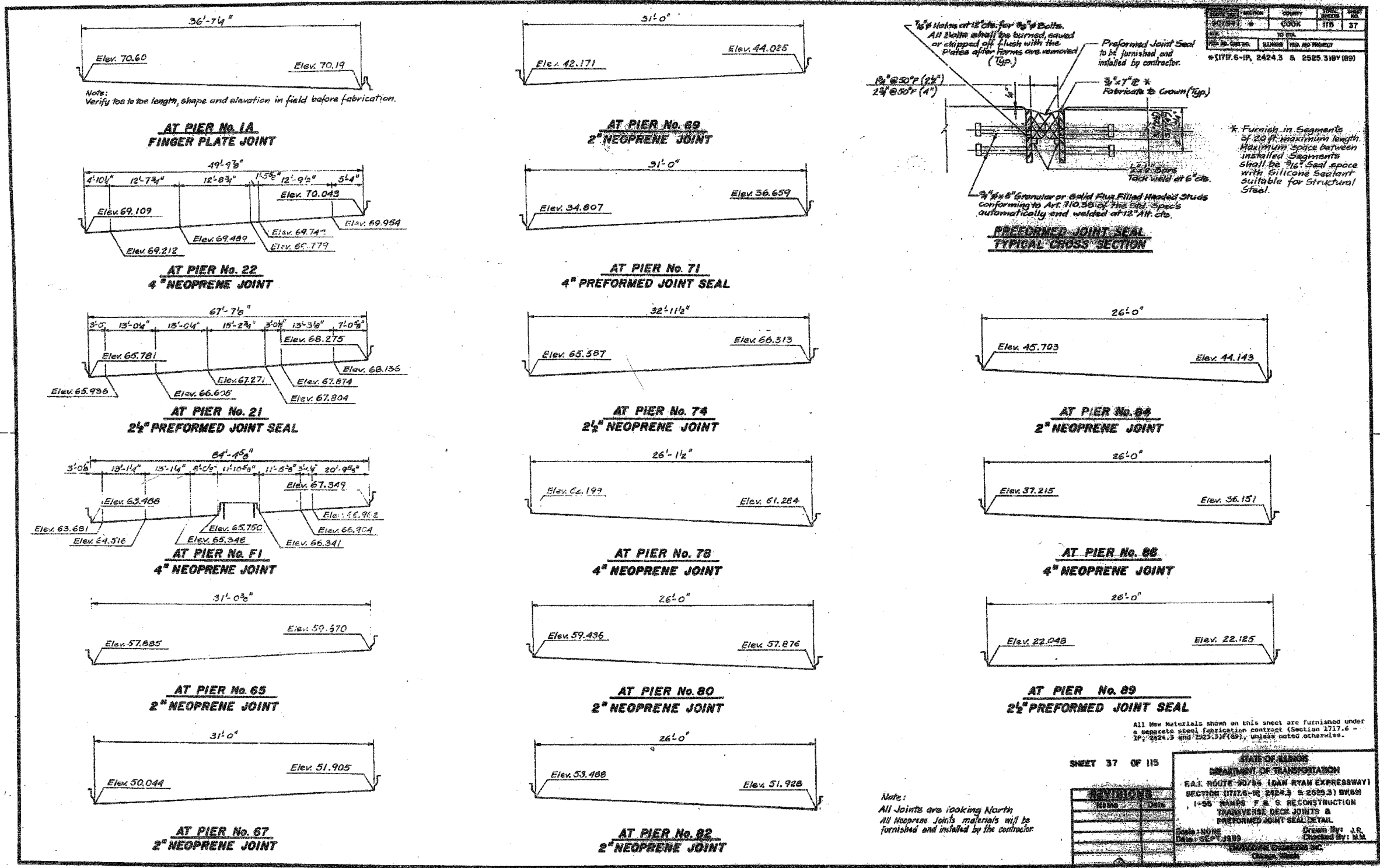
REVISIONS NAME	DATE	ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.I. 94/90 (DAN RYAN EXPRESSWAY) SB DAN RYAN ELEVATED BRIDGE REPAIR FROM 15TH TO 28TH STREETS EXISTING PLAN INFORMATION SN 016-1046 SCALE: NTS DATE: 5/25/2006	DRAWN BY: MTR CHECKED BY: BLU

BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
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4/21/09 PM 5/23/2006

62581



SHEET 37 OF 115

REVISIONS	NAME	DATE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
E.A.I. ROUTE 94/90 (DAN RYAN EXPRESSWAY)
SECTION 1717.6 - IP, 2424.3 & 2525.3 (B) (09)
1+55 RAMP F & G RECONSTRUCTION
TRANSVERSE DECK JOINTS & PREFORMED JOINT SEAL DETAIL

Scale: NONE
Date: SEPT 2009
Drawn By: J.R.
Checked By: M.M.
BOWMAN, BARRETT & ASSOCIATES, INC.
Chicago, Illinois

Note:
All Joints are looking North
All Neoprene Joints materials will be furnished and installed by the contractor.

BOWMAN, BARRETT & ASSOCIATES, INC.
CONSULTING ENGINEERS
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REVISIONS	NAME	DATE

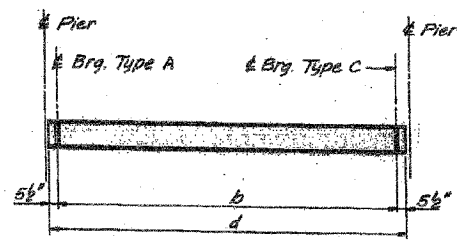
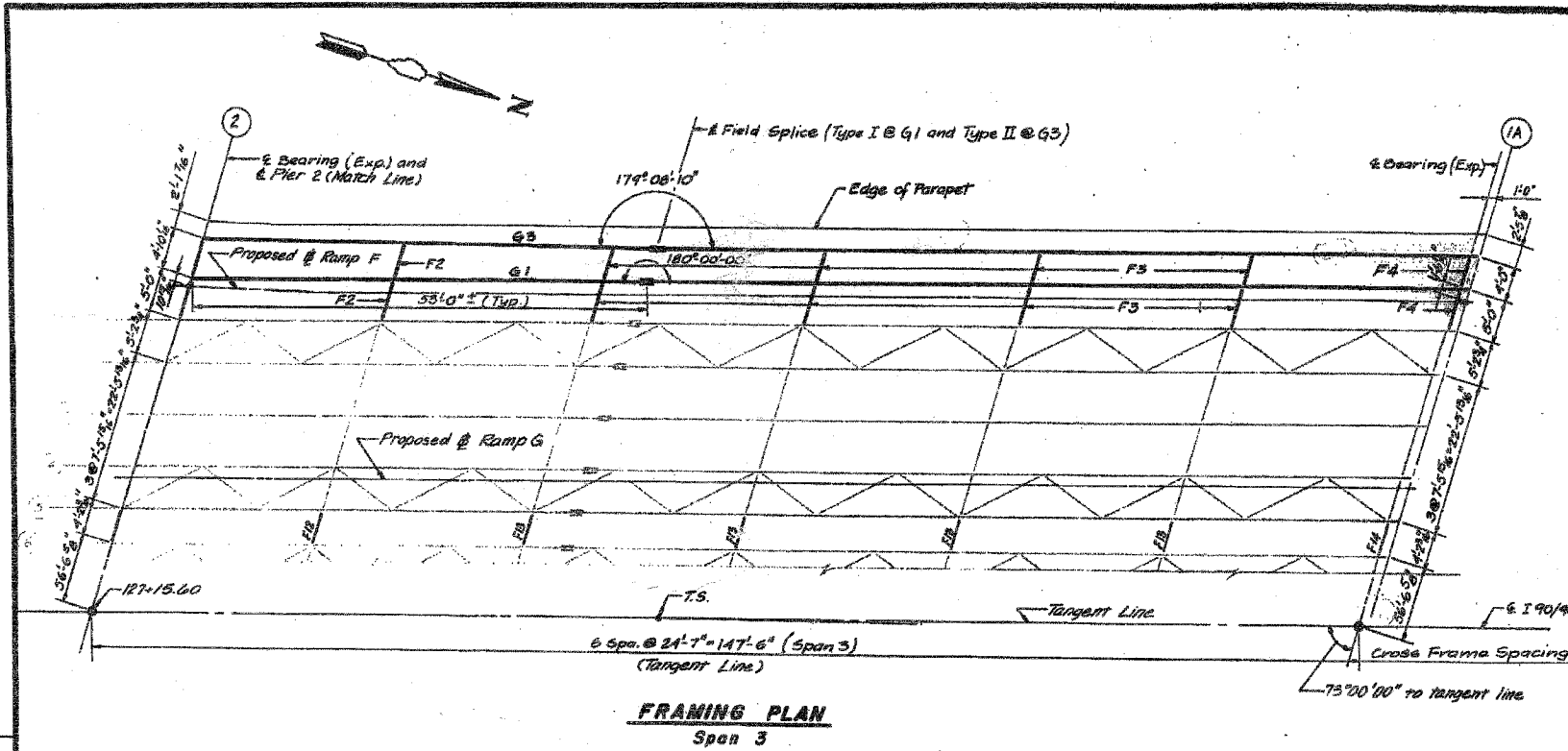
ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
SB DAN RYAN ELEVATED BRIDGE
REPAIR FROM 15TH TO 28TH STREETS
EXISTING PLAN INFORMATION
SN 016-1050, 1062, 1066

SCALE: NTS
DATE: 5/25/2006

DRAWN BY: MTR
CHECKED BY: BLU

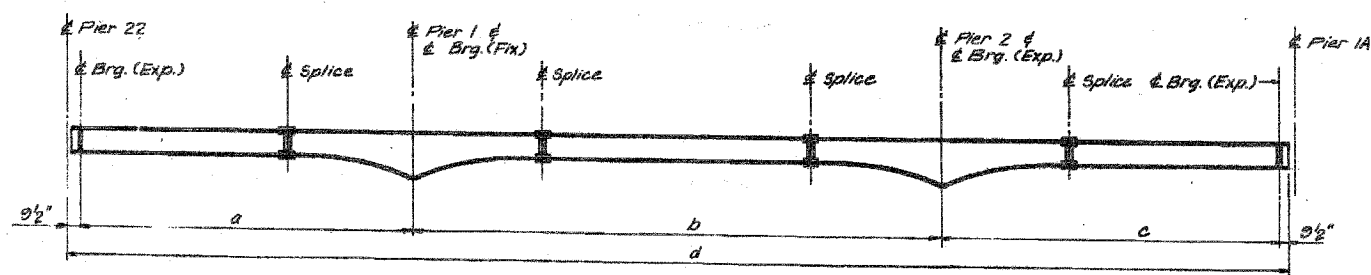
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SECTION	COUNTY	DATE	BY
2003-0291	COOK	1/15/02	22
1717.6 - 1P, 2424.3 & 2525.3 BY (89)			



GIRDER ELEVATION
Girders GF4 thru GF9
(Structure No. 016-1062)

Location	Girder	Type	A	b	Type	C	d
Span F2	GF4	Fix	162'-5 1/2"	Fix	163'-4 1/2"		
Span F2	GF5	Fix	163'-3"	Fix	164'-0"		
Span F2	GF6	Fix	165'-0 3/4"	Fix	165'-11 3/4"		
Span F1	GF7	Fix	84'-1 1/2"	Fix	85'-0 3/4"		
Span F1	GF8	Fix	83'-10 7/8"	Fix	84'-0 3/4"		
Span F1	GF9	Fix	83'-8 1/2"	Fix	84'-7 1/2"		



GIRDER ELEVATION
Girders G1 & G3

Location	Girder	a	b	c	d
Spans 1-3	G1	147'-8 1/2"	220'-0"	147'-6"	516'-7 1/2"
Spans 1-3	G3	146'-2 3/8"	218'-2"	147'-3"	513'-2 3/8"

All New Materials shown on this sheet are furnished under a separate steel fabrication contract (Section 1717.6 - 1P, 2424.3 and 2525.3)(89), unless noted otherwise.

SHEET 22 OF 115

STATE OF ILLINOIS	
DEPARTMENT OF TRANSPORTATION	
EAL. ROUTE 80/28 (DAN RYAN EXPRESSWAY)	
SECTION (1717.6 - 1P, 2424.3 & 2525.3)(89)	
1-28. REPAIR & RECONSTRUCTION	
STRUCTURE: SN 016-1062, 1066	
DRAWING PLAN - 22	
DESIGNED BY: [Signature]	
CHECKED BY: [Signature]	

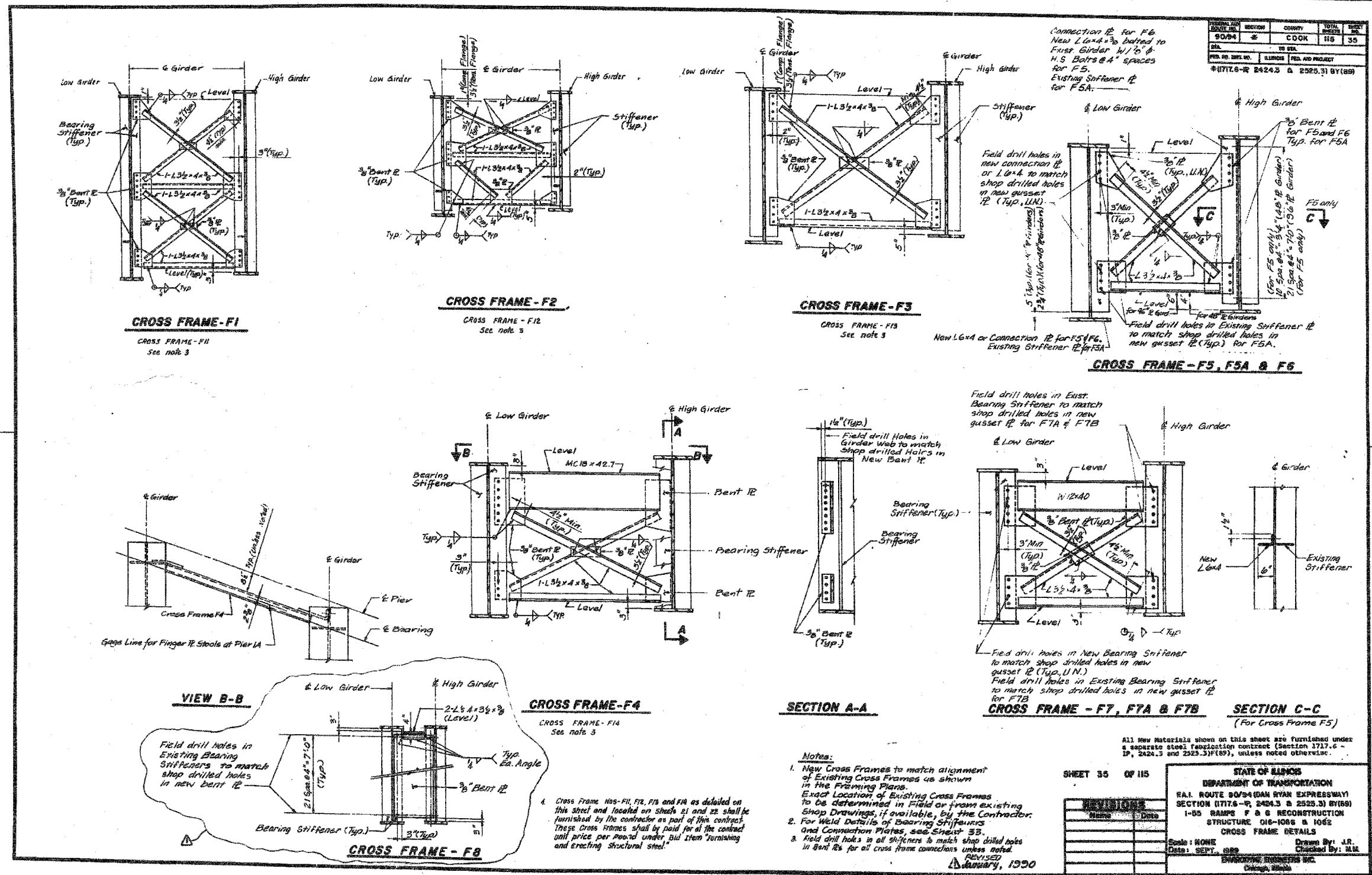
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
SB DAN RYAN ELEVATED BRIDGE
REPAIR FROM 15TH TO 28TH STREETS
EXISTING PLAN INFORMATION
SN 016-1050, 1062, 1066

SCALE: NTS
DATE: 5/25/2006

DRAWN BY: MTR
CHECKED BY: BLU

FOR INFORMATION ONLY



SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5094	COOK	344	305
TO BE			
ILLINOIS FED. AID PROJECT			
*1717.6-R 2424.3 & 2525.31 BY(89)			

All New Materials shown on this sheet are furnished under a separate steel fabrication contract (Section 1717.6 - 1P, 2424.3 and 2525.31)(89), unless noted otherwise.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
R.A.I. ROUTE 50/94 (DAN RYAN EXPRESSWAY)
SECTION (1717.6 - R, 2424.3 & 2525.3) BY(89)
I-55 RAMP F & G RECONSTRUCTION
STRUCTURE 016-1062 & 1062
CROSS FRAME DETAILS

Scale: NONE
Date: SEPT, 1989
Drawn By: J.R.
Checked By: BLU
ENGINEERING BUSINESS INC.
Chicago, Illinois

SHEET 35 OF 115

BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
www.bbainc.com

FOR INFORMATION ONLY

REVISIONS	NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
SB DAN RYAN ELEVATED BRIDGE
REPAIR FROM 15TH TO 28TH STREETS
EXISTING PLAN INFORMATION
SN 016-1050, 1062, 1066

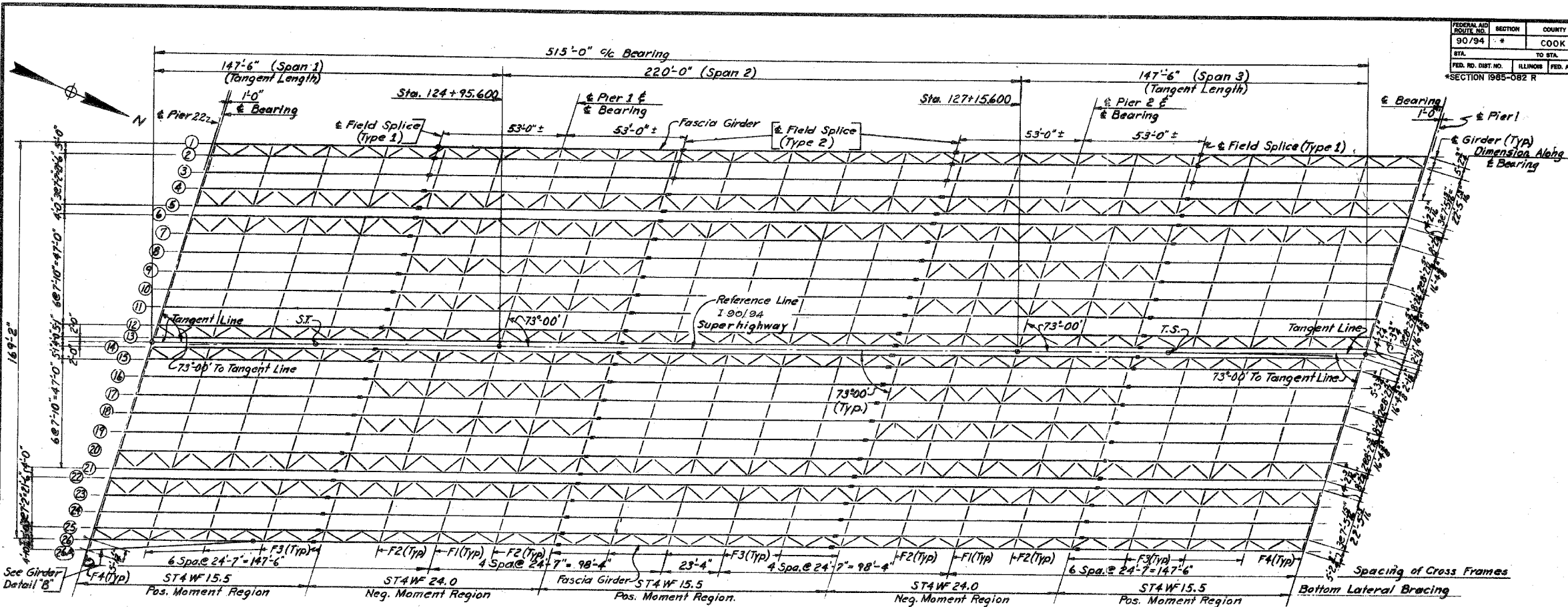
SCALE: NTS
DATE: 5/25/2006

DRAWN BY: MTR
CHECKED BY: BLU

5/23/2006 4:27:06 PM

FEDERAL AID ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	*	COOK	14	4
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

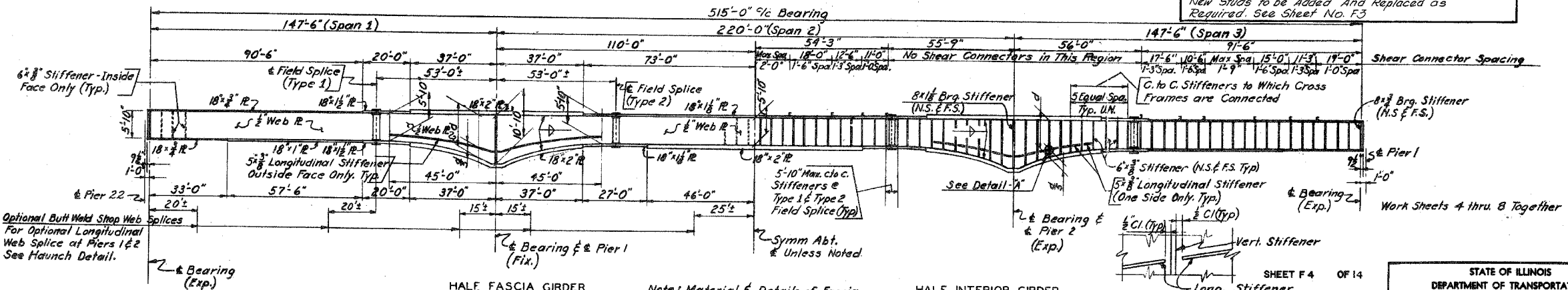
SECTION 1985-082 R



Note: There shall be no Cross Frames between Girders 5 & 6, 13 & 14, 21 & 22.

EXISTING FRAMING PLAN

NOTES
This Sheet is Furnished for Reference Only. No New Steel Plate Girders or Crossframes are Req'd. New Studs to be Added and Replaced as Required. See Sheet No. F3.



Note: Material & Details of Fascia & Intermediate Girders are the same unless shown or noted.

EXISTING GIRDER ELEVATION

SHEET F 4 OF 14

REVISIONS	
Name	Date

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.I. ROUTE 90/94 (DAN RYAN EXPRESSWAY)
SECTION 1985-082 R COOK COUNTY
STRUCTURE NO. 016-1114
S.B. MAINLINE RECONSTRUCTION
EXISTING FRAMING PLAN

Scale: None
Date: AUGUST 14, 1997
DRAWN BY: S.R.
CHECKED BY: SK
ENVIRONMENTAL ENGINEERS INC.
Chicago, Illinois

REVISIONS	NAME	DATE

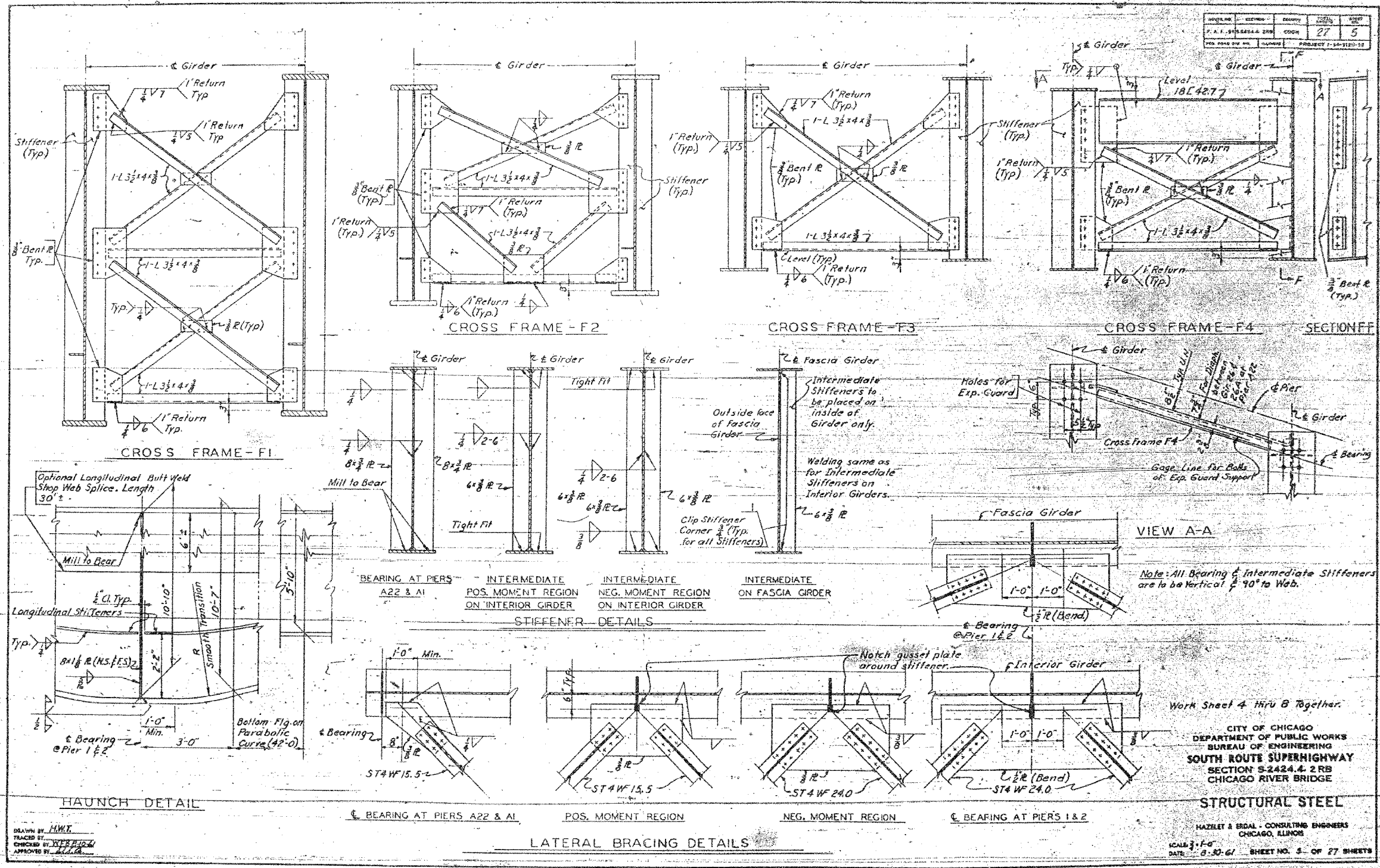
ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
SB DAN RYAN ELEVATED BRIDGE
REPAIR FROM 15TH TO 28TH STREETS
EXISTING PLAN INFORMATION
SN 016-1114

SCALE: NTS
DATE: 5/25/2006
DRAWN BY: MTR
CHECKED BY: BLU

FOR INFORMATION ONLY

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CONSULTING ENGINEERS
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F:\660\000\BRIDGE\02\SHETS\660_21\FP_016\1114.dgn 5/23/2006 4:27:52 PM



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FOR INFORMATION ONLY

REVISIONS	
NAME	DATE

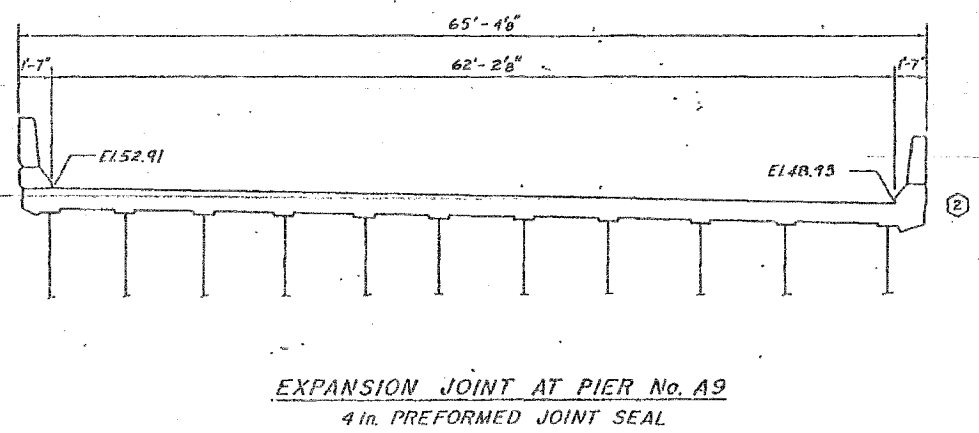
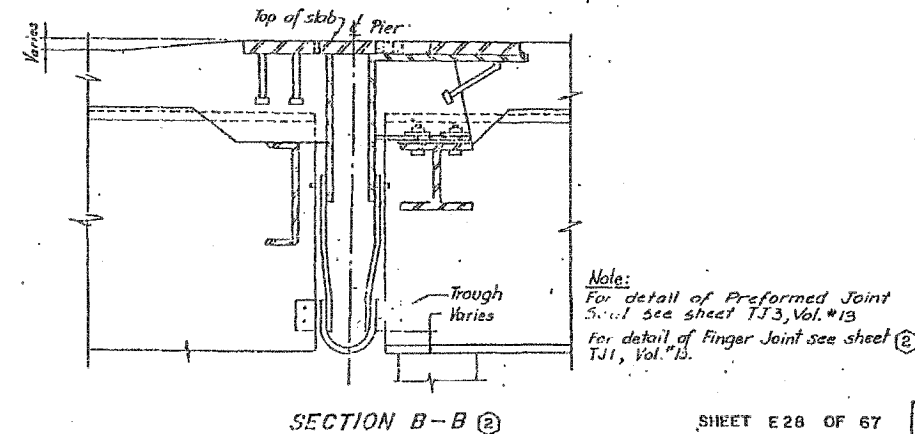
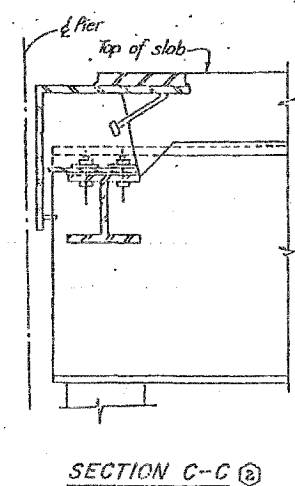
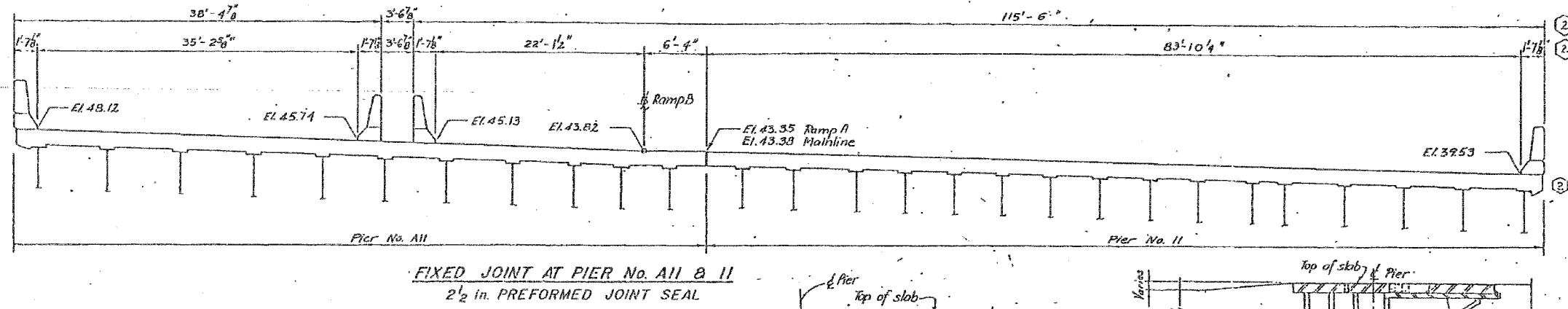
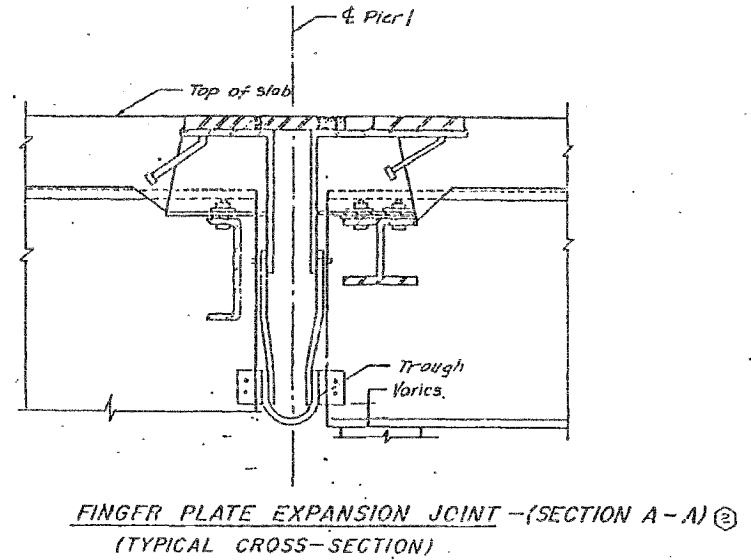
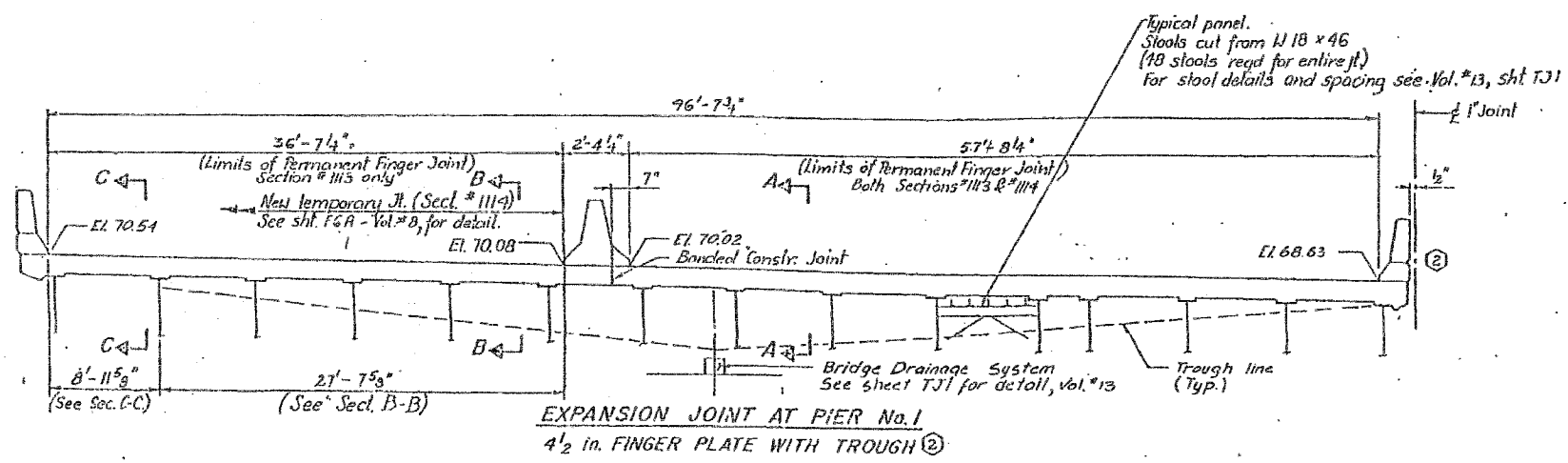
ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
SB DAN RYAN ELEVATED BRIDGE
REPAIR FROM 15TH TO 28TH STREETS
EXISTING PLAN INFORMATION
SN 016-1114

SCALE: NTS
DATE: 5/25/2006

DRAWN BY: MTR
CHECKED BY: BLU

4/26/06 5:23/2006

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	2003-0291	COOK	344	308
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
62581				



SHEET E28 OF 67

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.I. ROUTE 90/94 (DAN RYAN EXPRESSWAY)
SECTION 1985-082 R - COOK COUNTY
S.D. MAINLINE RECONSTRUCTION
STRUCTURE 016-1113
TRANSVERSE DECK JOINT ELEVATION
Scale: NONE
Date: AUG. 14, 1987
Drawn By: H.C.
Checked By: M.M.
ENVIRONMENTAL ENGINEERS INC.
Chicago, Illinois

REVISIONS	
Name	Date
(2) Revision	2-5-88

REVISIONS NAME	DATE

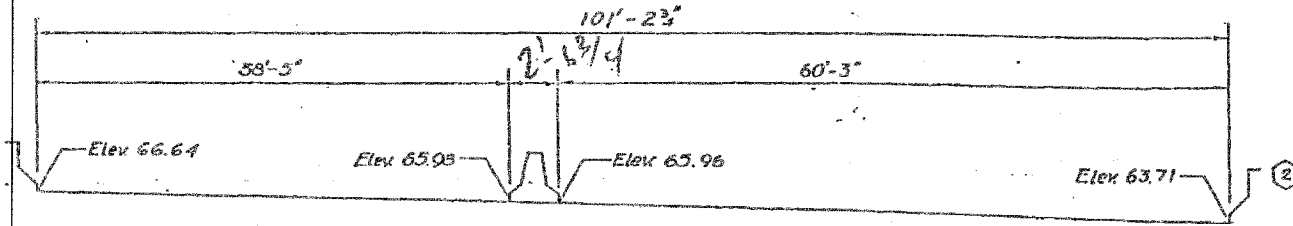
ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
SB DAN RYAN ELEVATED BRIDGE
REPAIR FROM 15TH TO 28TH STREETS
EXISTING PLAN INFORMATION
SN 016-1113
SCALE: NTS
DATE: 5/25/2006
DRAWN BY: MTR
CHECKED BY: BLU

BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
www.bbainc.com

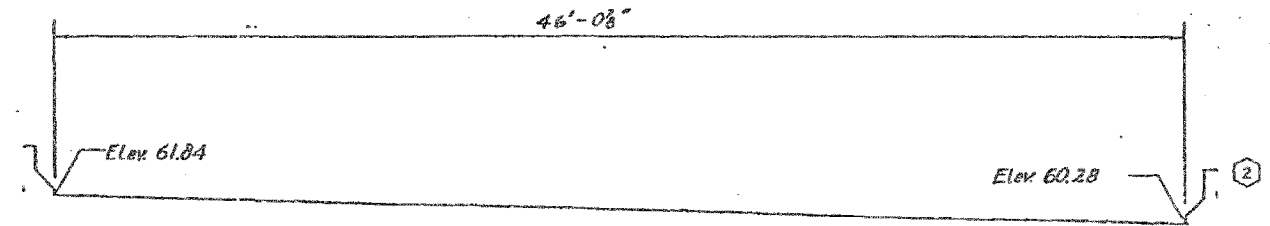
FOR INFORMATION ONLY

RANGE 0000 BRIDGE SHEETS 660.21.016-113 E.L.0400 4/25/06 PM 5/23/2006

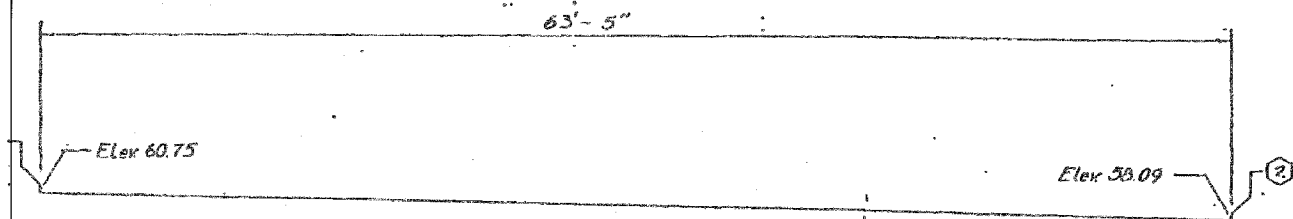
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STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
62581				



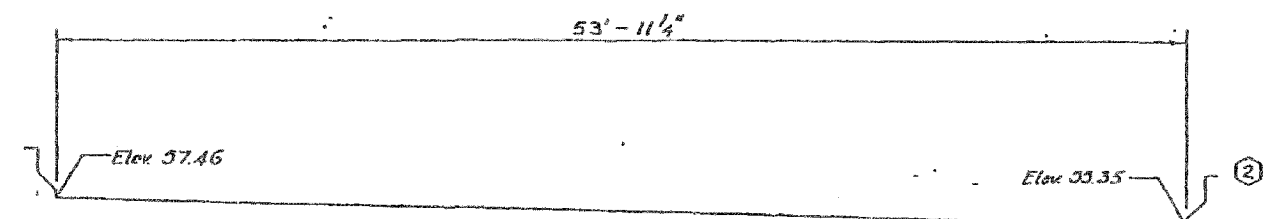
AT PIER No. 3
2 1/2" NEOPRENE JOINT



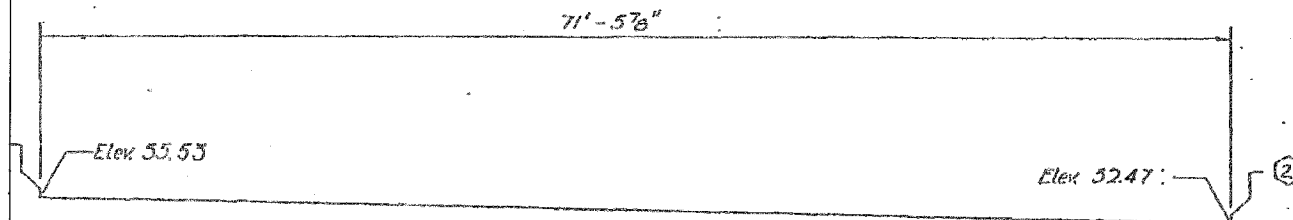
AT PIER No. A5
2 1/2" NEOPRENE JOINT



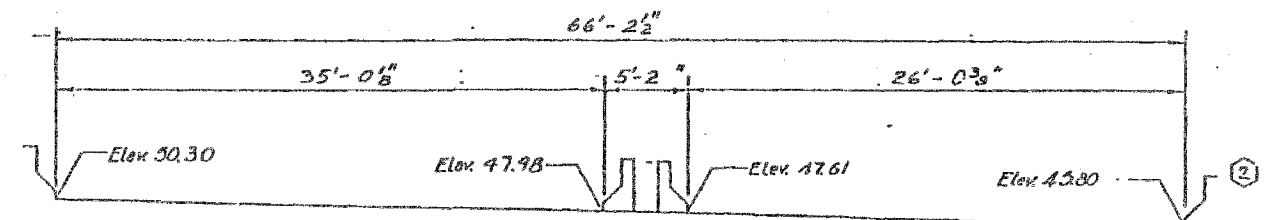
AT PIER No. 5
2 1/2" NEOPRENE JOINT



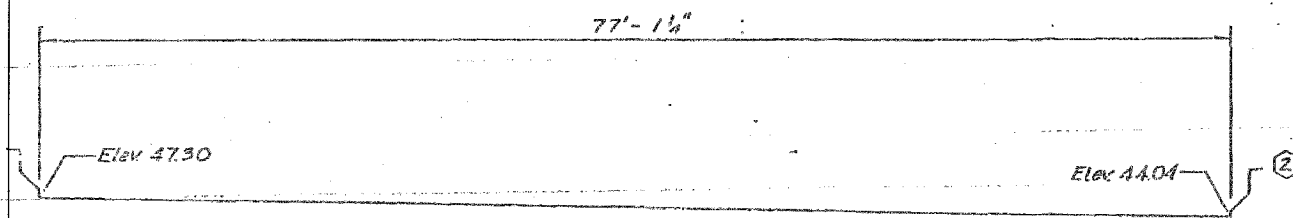
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2 1/2" NEOPRENE JOINT



AT PIER No. 7
4" NEOPRENE JOINT



AT PIER No. A10
4" NEOPRENE JOINT



AT PIER No. 10
4" NEOPRENE JOINT

SHEET E29 OF 67		STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	
		F.A.I. ROUTE 90/94 (DAN RYAN EXPRESSWAY)	
		SECTION 1985-082 R- COOK COUNTY	
		S.B. MAINLINE RECONSTRUCTION	
		STRUCTURE 016-1113	
		TRANSVERSE DECK JOINT ELEVATION	
		Scale: NONE Drawn By: G.D.	
		Date: AUG 14, 1987 Checked By: J.L.H.	
		ENVIROTECH ENGINEERS INC. Chicago, Illinois	

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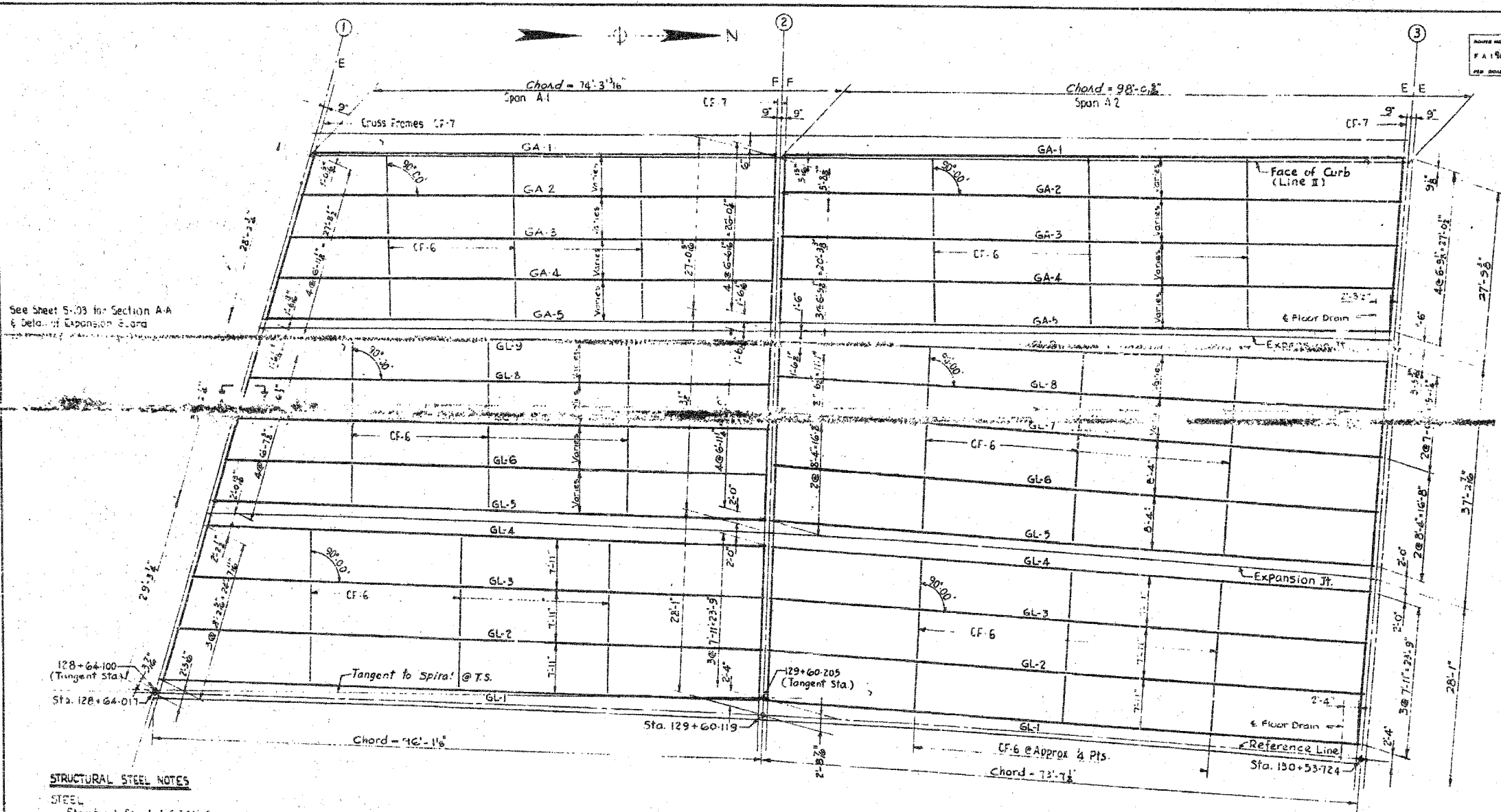
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
SB DAN RYAN ELEVATED BRIDGE
REPAIR FROM 15TH TO 28TH STREETS
EXISTING PLAN INFORMATION
SN 016-1113
SCALE: NTS DRAWN BY: MTR
DATE: 5/25/2006 CHECKED BY: BLU

PAGE 001 OF 04 SHEETS 660.21.DWG 11/25/2006 4:30:01 PM

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	2003-0291	COOK	344	310
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
62581				

ADDITIONAL SHEETS	COUNTY	TOTAL SHEETS	SHEET NO.
F A 194 5-20-01	COOK	152	06
PREP DRAWING NO. 4-1 DRAWING DATE: 194 5-20-01			



See Sheet S-03 for Section A-A & Det. of Expansion Guard

STRUCTURAL STEEL NOTES

STEEL
Structural Steel A 57M Designation A373 shall be used throughout except as noted below.

A 57M Designation A7 Steel to be used for cross frames, expansion plates, anchor bolts, field splice plates, expansion guards, channel shear connectors & floor drain brackets.

FIELD CONNECTIONS
Cross Frames - 3/4 High Strength Bolts A 57M A 325
Girder Splices - 1/4 High Strength Bolts A 57M A 325
Expansion Guard Brackets - 3/4 R Bolts
Floor Drain Brackets - 3/4 High Strength Bolts. See Sheet S

SPICES (Continuous Girders)
Field splices may be vertical or normal to the girders at the option of the fabricator. Holes for field splices shall bereamed with the girders assembled in position, in accordance with the blocking diagrams.
Shop web splices shall be made vertical.

PLAN - SPANS 1 & 2 - LEFT

(Continued)

FLANGE PLATE WELDS
Weld flanges to web with continuous fillet weld each side of web.
Size of Weld Flange Thickness
3/8 up to & including 3/4
3/8 up to & including 1 1/4
3/8 up to & including 1 3/4
1/2 greater than 2 1/4

PAINTING
The Contractor for Section 5-2424.3-1HF shall furnish & apply one shop coat of red lead paint & two field coats of paint to all structural steel, except as noted below.
The tops of girder top flanges will not be painted except for a distance of five feet each way from piers.

EXPANSION GUARDS
See Structure Plan & Elevation Drawings for locations of expansion guards.
See Expansion Guard Drawings for dimensions & details.

(Continued)

ROCKERS
See Rocker Drawings & Schedule for dimensions & details.

SIMPLE SPAN GIRDERS
See Simple span Girder Details & Simple Span Girder Schedules for girder dimensions, shear connector spacings, web stiffener spacings, plate sizes, angles with piers, and lengths.

CONTINUOUS GIRDERS
See Continuous Girder Details for dimensions, shear connectors, web stiffeners, plate sizes & lengths.

CROSS FRAMES
Intermediate Cross Frames to be located at approximate 1/4 etc points as shown on plans. Maximum spacing to be 25'-0"

CITY OF CHICAGO
DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING
SOUTH ROUTE SUPERHIGHWAY
SECTION NO. 5-2424.3-1H
SECTION NO. 5-2424.3-1HF
CHICAGO RIVER TO W. CERMAK RD.
FRAMING PLAN
CONSOER, TOWNSEND & ASSOCIATES
CONSULTING ENGINEERS
CHICAGO, ILLINOIS
DESIGNED BY R.L.F. CHECKED BY H.S.M.
DRAWN BY IN CHARGE OF DATE: SEP 1961
SCALE: 1/8" = 1'-0" SHEET NO. S-76 OF 152

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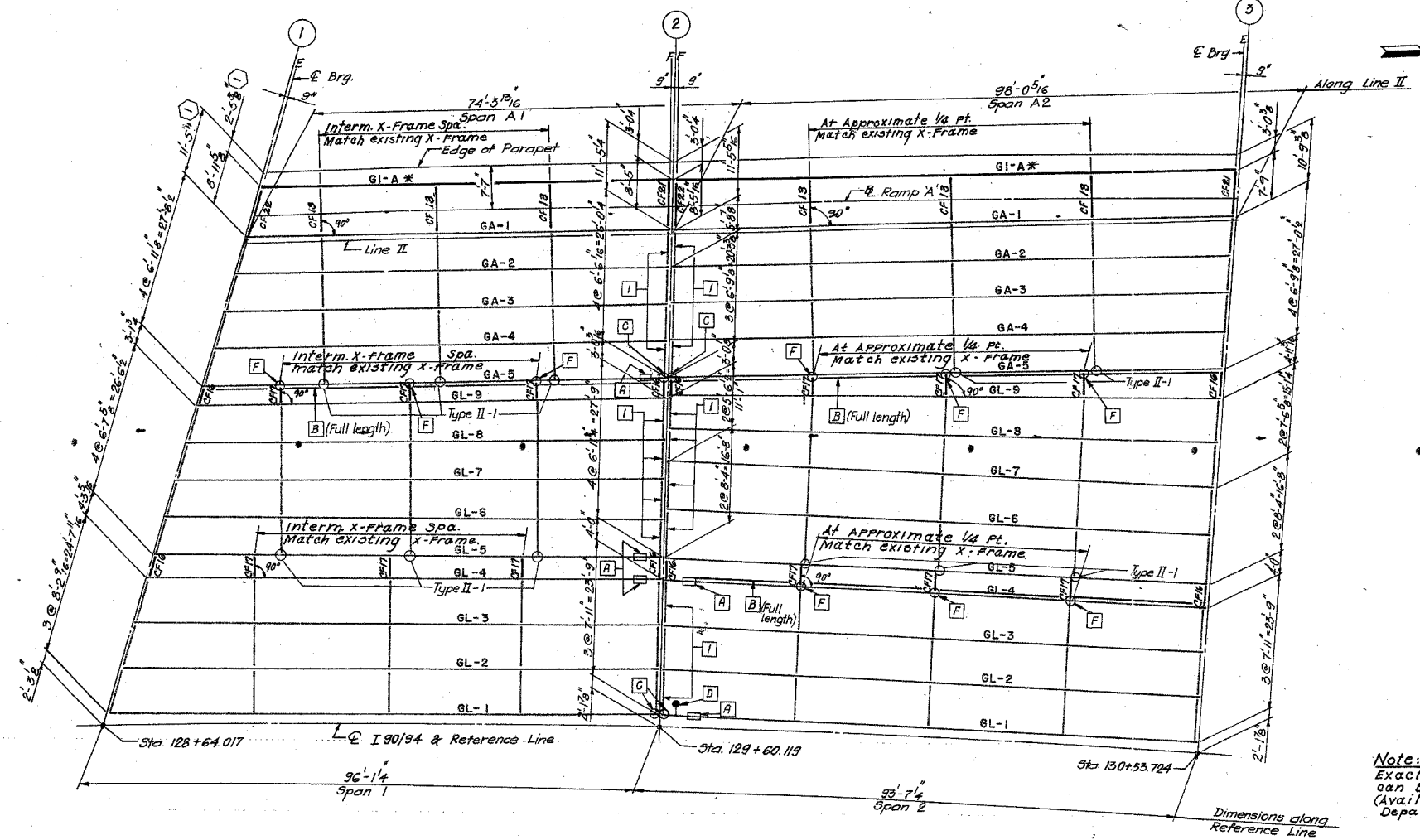
FOR INFORMATION ONLY

REVISIONS	NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
SB DAN RYAN ELEVATED BRIDGE
REPAIR FROM 15TH TO 28TH STREETS
EXISTING PLAN INFORMATION
SN 016-1113
SCALE: NTS
DATE: 5/25/2006
DRAWN BY: MTR
CHECKED BY: BLU

5/23/2006 4:32:35 PM

FEDERAL AID ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	*	COOK	67	15
STA.		TO STA.		
FED. NO. DIST. NO.		ILLINOIS	FED. AID PROJECT	
		* 1985-082 R		



PLAN- SPANS 1 & 2 (S.B.)

Note:
Exact location of existing x-frame can be obtained from Shop Drawings. (Available from State Of Illinois, Department Of Transportation.)

Legend:
* New R Girder (For size and length see sheet E22)

TYPE II - Detail Number
Retrofit
Cross Frame at bottom Flange
See Sht. E 26

- ① End X-Frame, Type 2. See Sht SR-3, Vol. #13 for detail.
- Ⓐ For Repair, Girder Web near Bearing Stiffener. See Sht. SR-5, Vol. #13 for detail.
- Ⓒ For Repair, Web Plate at end of Girder. See Sht. SR-5, Vol. #13 for detail.
- Ⓕ Special Cross Frame Connection at longitudinal Reinforcing. See Sht. SR-6, Vol. #13 for detail.
- Ⓖ For Repair, End Bearing Stiffener (side(s) indicated). See Sht. SR-5, Vol. #13 for detail.
- Ⓑ Longitudinal Reinforcing Repair (side indicated). See Sht. SR-5, Vol. #13 for detail.

ALL NEW MATERIALS SHOWN ON THIS SHEET ARE FURNISHED UNDER A SEPARATE STEEL FABRICATION CONTRACT (SECTION 1985-081F), UNLESS NOTED OTHERWISE.

SHEET E15 OF 67

AS REVISED

REVISIONS	
Name	Date
① Revision	1-8-88

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.I. ROUTE 90/94 (DAN RYAN EXPRESSWAY)
SECTION 1985-082 R-COOK COUNTY
S.B. MAINLINE RECONSTRUCTION
STRUCTURE 016-113 (RAMP A & MAINLINE)
FRAMING PLAN SPANS 1 & 2, A1 & A2

Scale: NONE
Date: AUG. 14, 1987
Drawn By: R.G.
Checked By: M.M.

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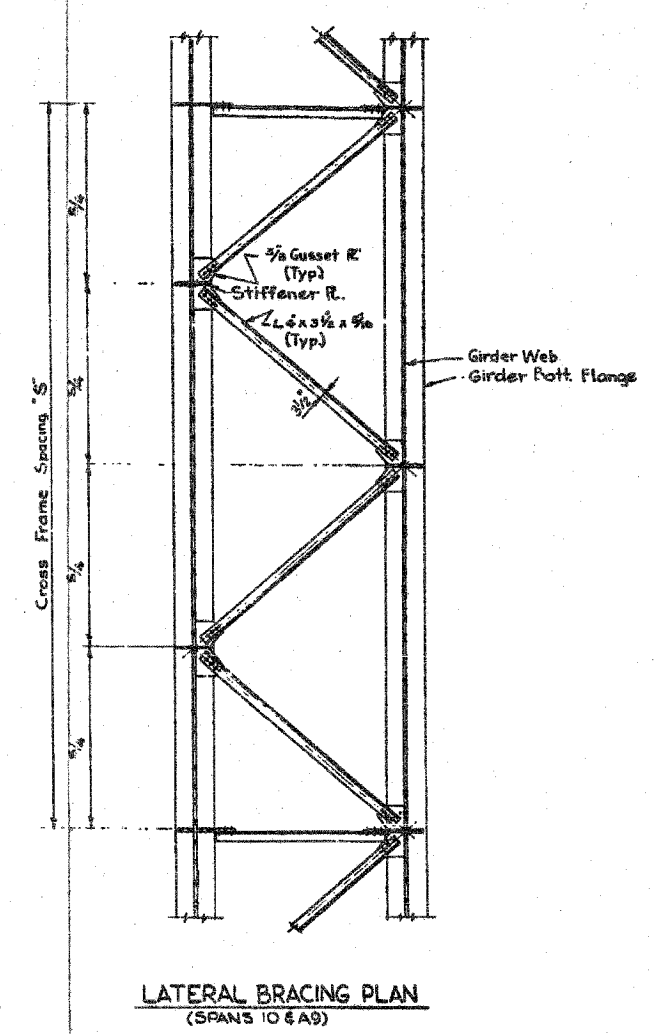
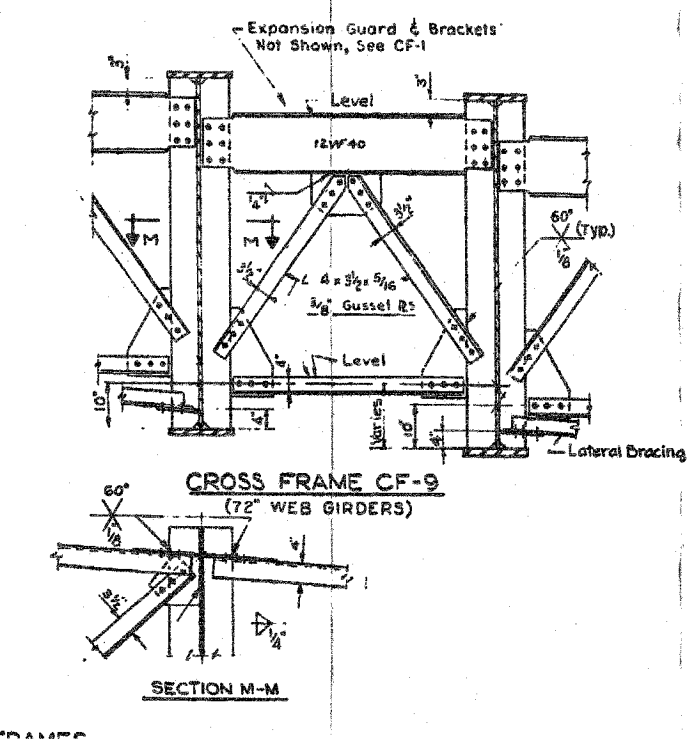
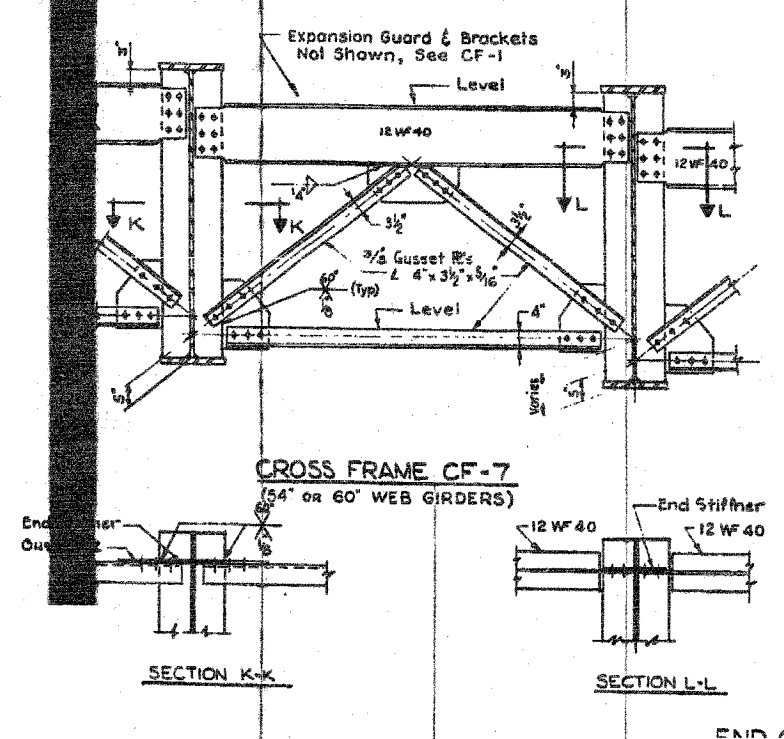
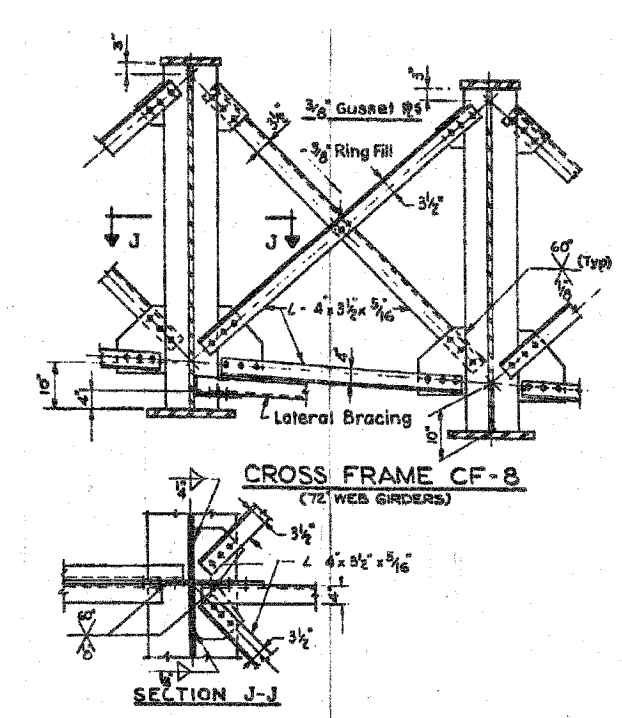
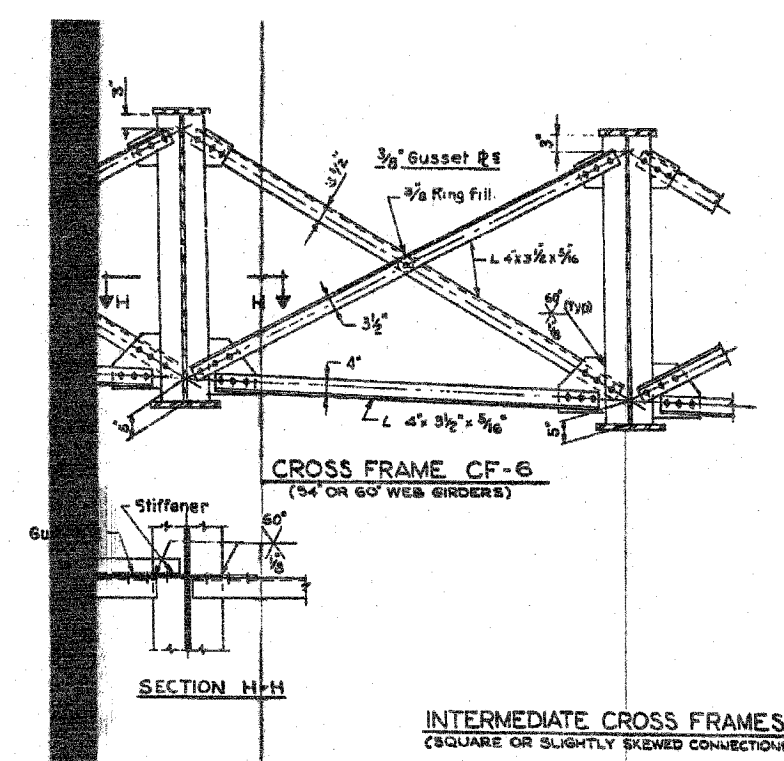
REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
SB DAN RYAN ELEVATED BRIDGE
REPAIR FROM 15TH TO 28TH STREETS
EXISTING PLAN INFORMATION
SN 016-1113

SCALE: NTS
DATE: 5/25/2006
DRAWN BY: MTR
CHECKED BY: BLU

4-33334 PM 5/23/2006

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	2003-0291	COOK	344	312
PROJECT NO.	DATE	DESIGNED BY	CHECKED BY	SCALE
F.A.I. 84	5/25/06	J.H.D.	R.L.F.	NONE
STATION	TO STA.	ILLINOIS FED. AID PROJECT		
62581				



Note: For general layout of lateral bracing, see Framing Plans

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DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING
SOUTH ROUTE SUPERHIGHWAY
SECTION NO. 13-2424.3-11M
(S. 2424.3-11M)
CHICAGO RIVER TO W. CERMAK RD
STRUCTURAL STEEL DETAILS
CONSOER, TOWNSEND & ASSOCIATES
CONSULTING ENGINEERS
CHICAGO, ILLINOIS
DESIGNED BY I.A.A. CHECKED BY R.L.F.
DRAWN BY J.H.D. IN CHARGE OF H.S.M.
SCALE: NONE DATE: 5/20/04

REVISIONS	NAME	DATE

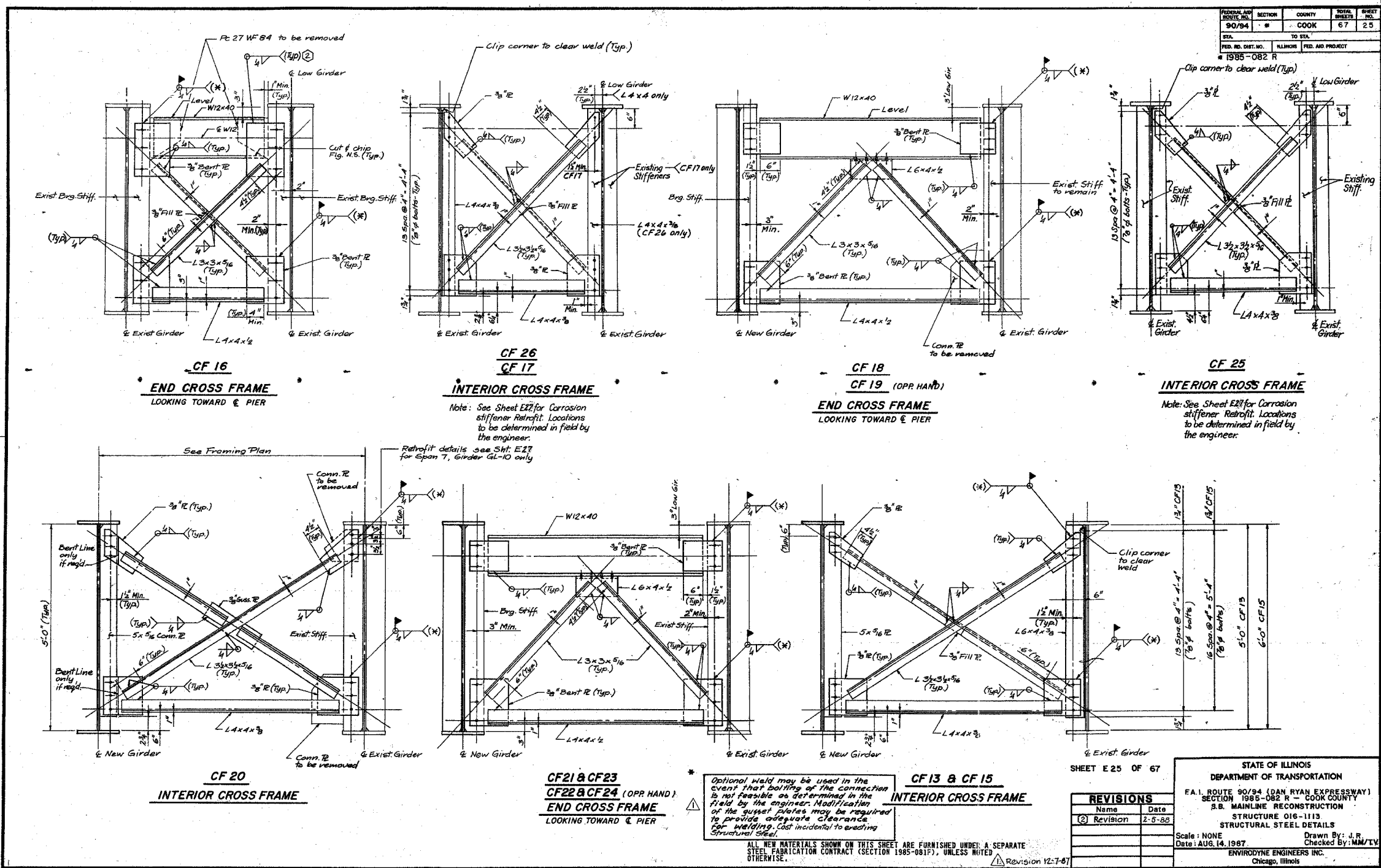
ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
SB DAN RYAN ELEVATED BRIDGE
REPAIR FROM 15TH TO 28TH STREETS
EXISTING PLAN INFORMATION
SN 016-1113
SCALE: NTS
DATE: 5/25/2006
DRAWN BY: MTR
CHECKED BY: BLU

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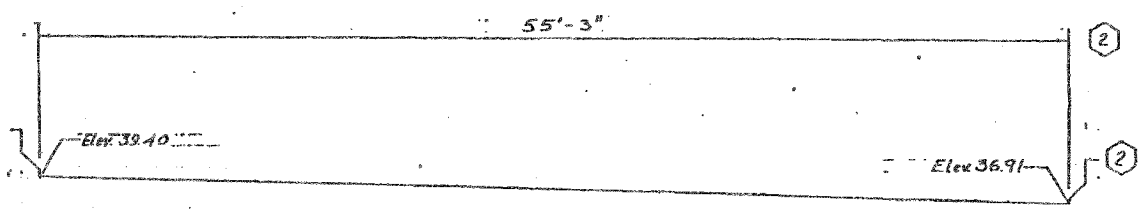
REVISIONS	NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
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REPAIR FROM 15TH TO 28TH STREETS
EXISTING PLAN INFORMATION
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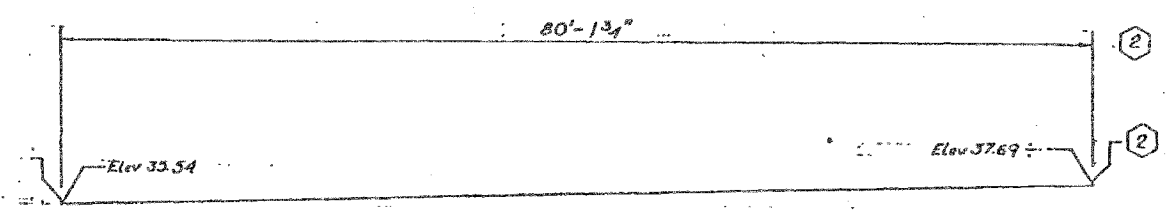
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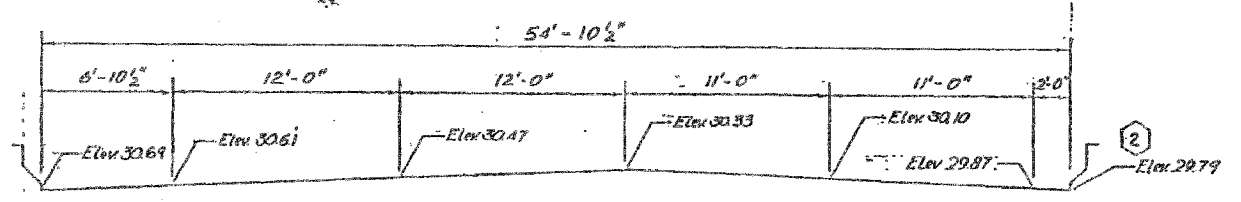
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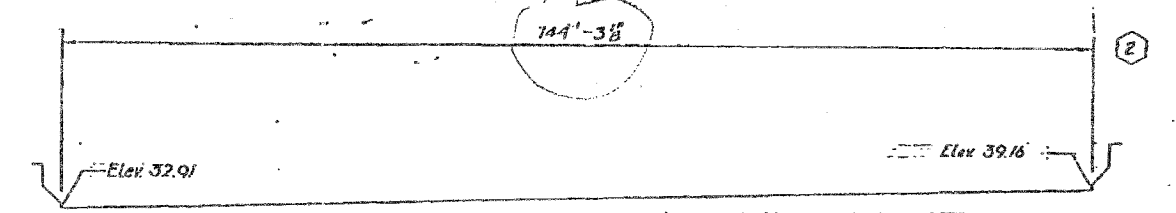
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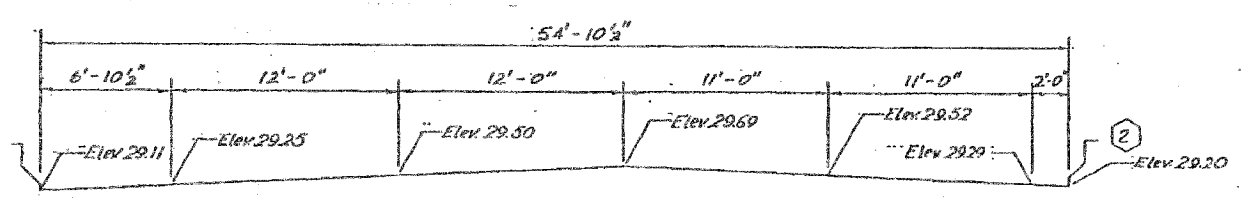
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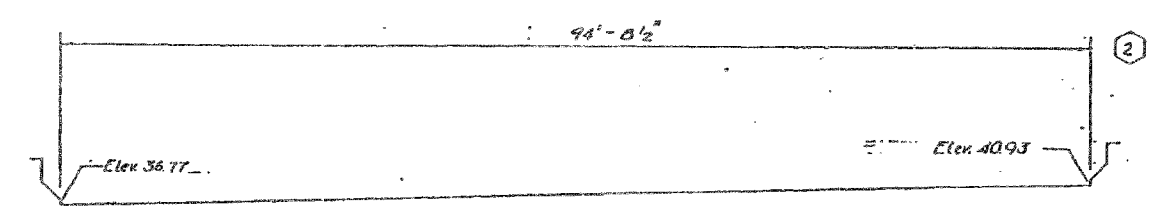
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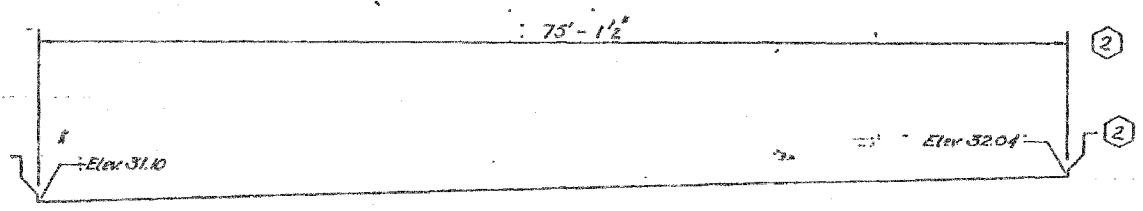
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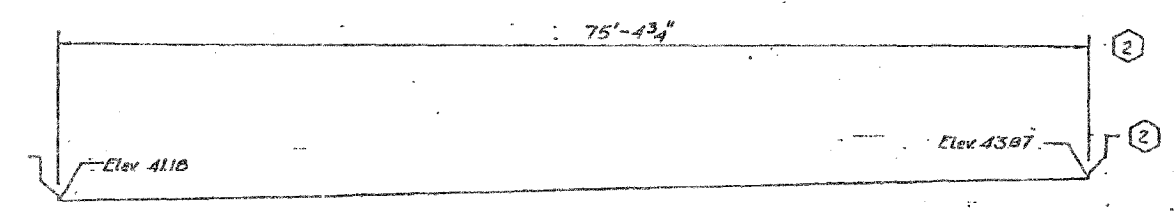
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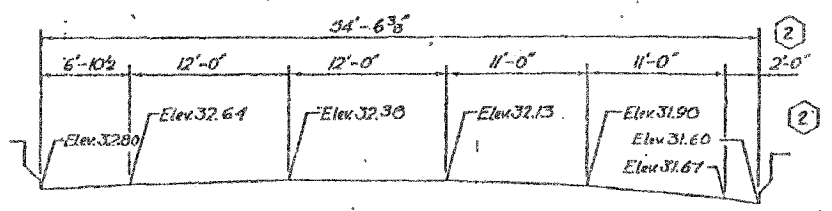
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AT PIER No. 22
4" NEOPRENE JOINT



AT PIER No. 31
2 1/2" NEOPRENE JOINT



AT PIER No. 14
2 1/2" NEOPRENE JOINT

SHEET 049 OF 120

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.I. ROUTE 90/94 (DAN RYAN EXPRESSWAY)
SECTION 1985-082 R- COOK COUNTY
S.B. MAINTENANCE RECONSTRUCTION
STRUCTURE 016-1112
TRANSVERSE DECK JOINT ELEVATION
Scale: NONE
Date: AUG. 14, 1987
Drawn By: O.O. O'Rand Ryl. T.V.
ENVIROTECH ENGINEERS INC.
Chicago, Illinois

REVISIONS	NAME	DATE

REVISIONS	NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
SB DAN RYAN ELEVATED BRIDGE
REPAIR FROM 15TH TO 28TH STREETS
EXISTING PLAN INFORMATION
SN 016-1112

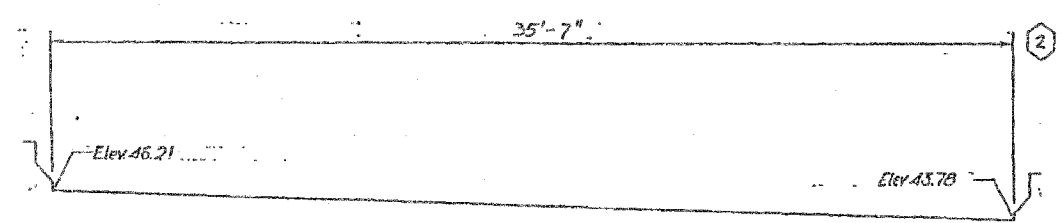
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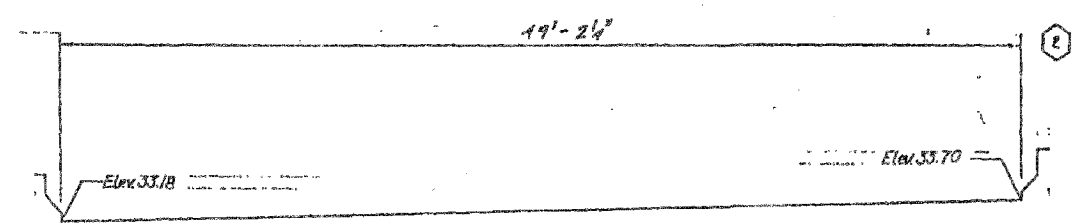
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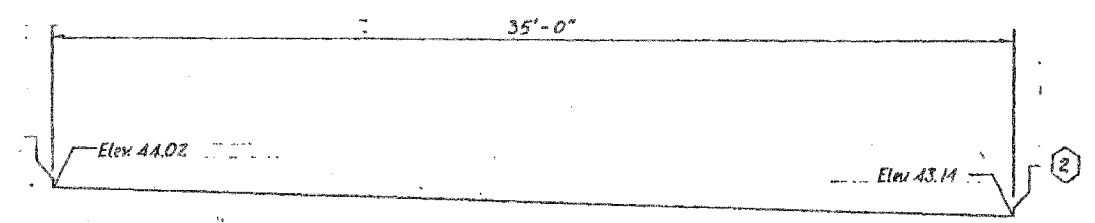
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62581				



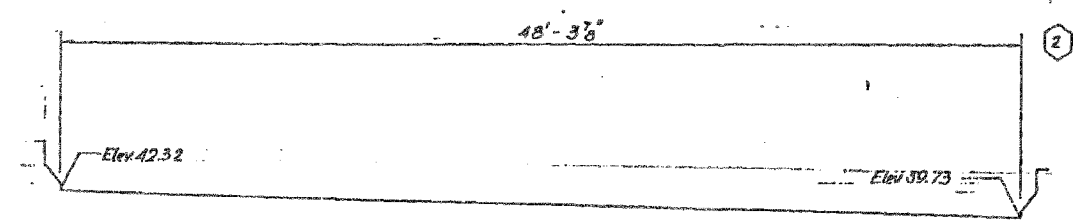
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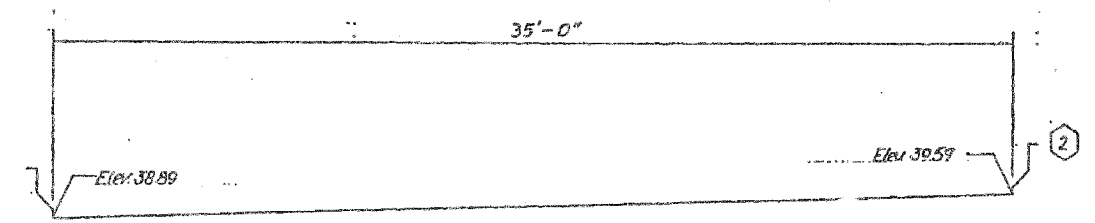
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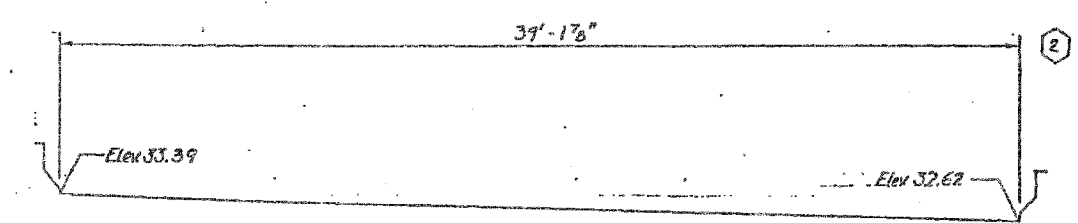
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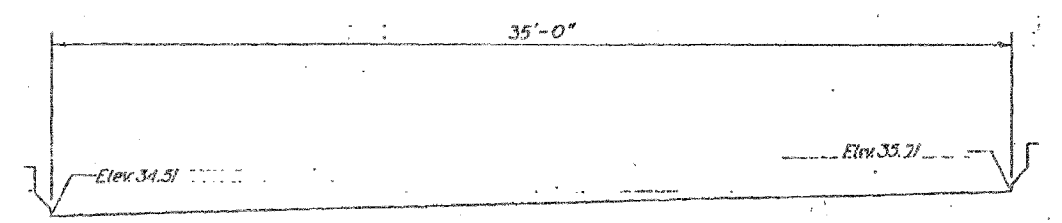
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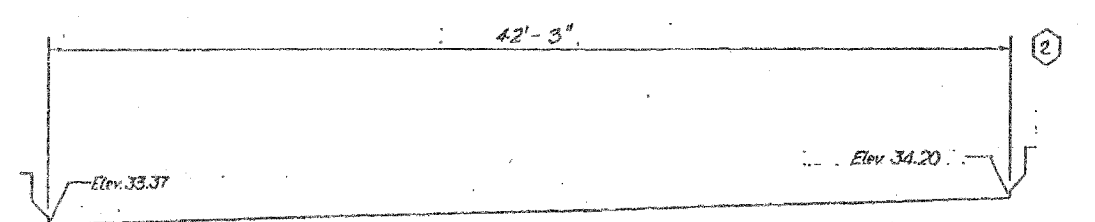
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AT PIER No. B14
4" NEOPRENE JOINT



AT PIER No. A19
2 1/2" NEOPRENE JOINT



AT PIER No. A21
2" NEOPRENE JOINT

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REVISIONS	
NAME	DATE

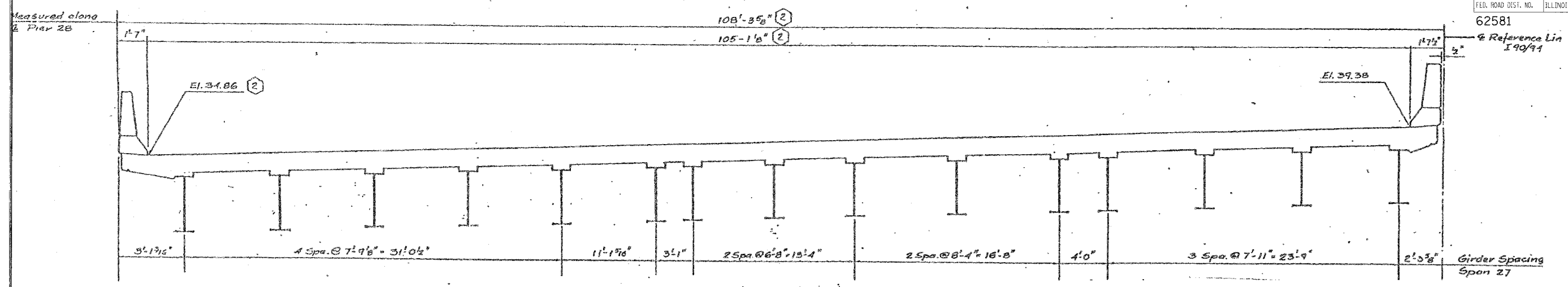
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F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
SB DAN RYAN ELEVATED BRIDGE
REPAIR FROM 15TH TO 28TH STREETS
EXISTING PLAN INFORMATION
SN 016-1112

SCALE: NTS
DATE: 5/25/2006

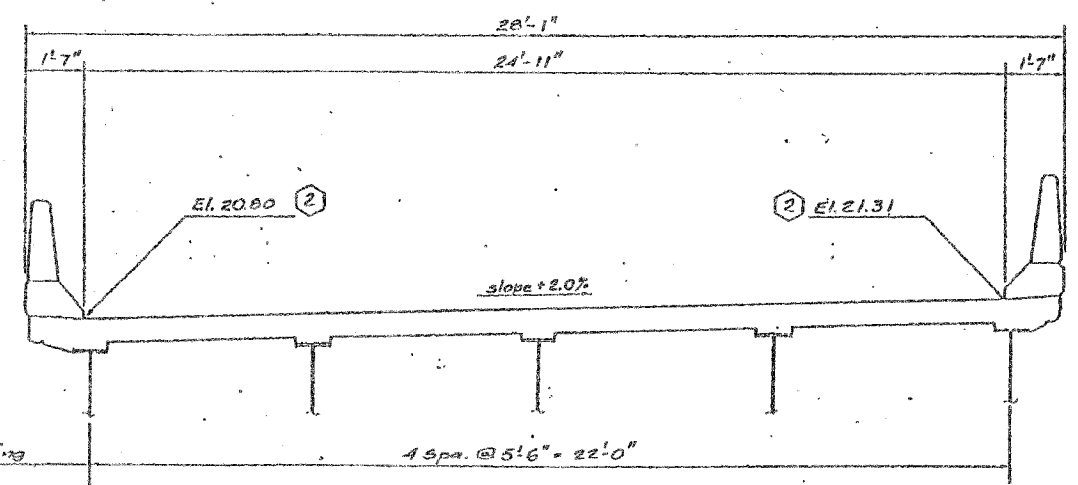
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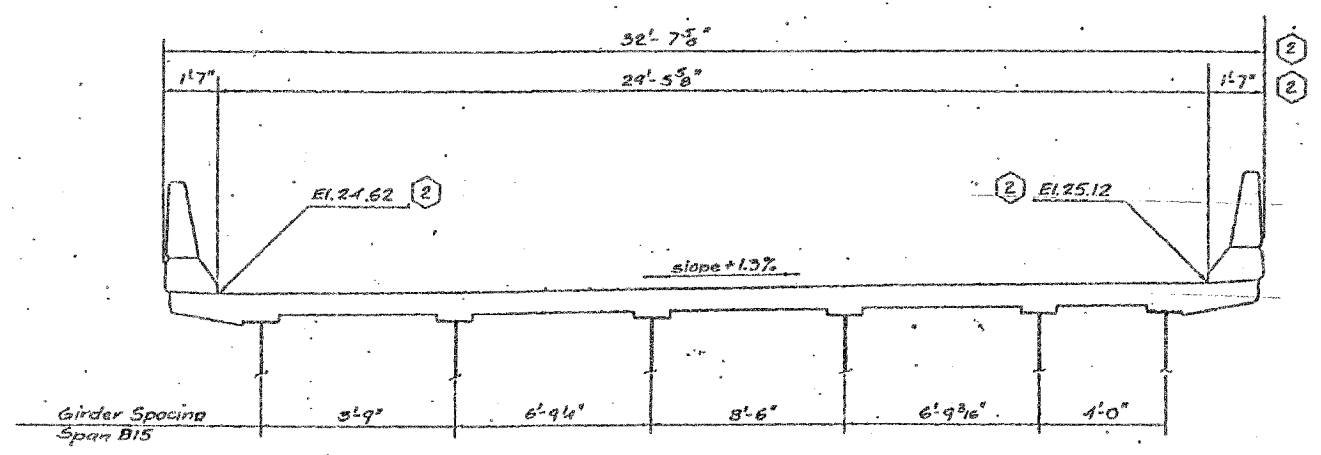
F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	2003-0291	COOK	344	316
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



FIXED JOINT AT PIER 28
2 1/2" PREFORMED JOINT SEAL



JOINT AT ABUTMENT B17
4" PREFORMED JOINT SEAL



JOINT AT PIER B16
4" PREFORMED JOINT SEAL

Note:
For Joint Detail, see Sht. T13

FOR INFORMATION ONLY

SHEET D51 OF 120

REVISIONS	NAME	DATE
(2) Rev.		2-5-88

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.I. ROUTE 90/94 (DAN RYAN EXPRESSWAY)
SECTION 1985-082 R - COOK COUNTY
S.B. MAINLINE RECONSTRUCTION
STRUCTURE 016-1112
TRANSVERSE DECK JOINT ELEVATION
Scale: NONE
Date: AUG. 14, 1987
Drawn By: J.R.
Checked By: M.J.
ENVIRONMENTAL ENGINEERS INC.
Chicago, Illinois

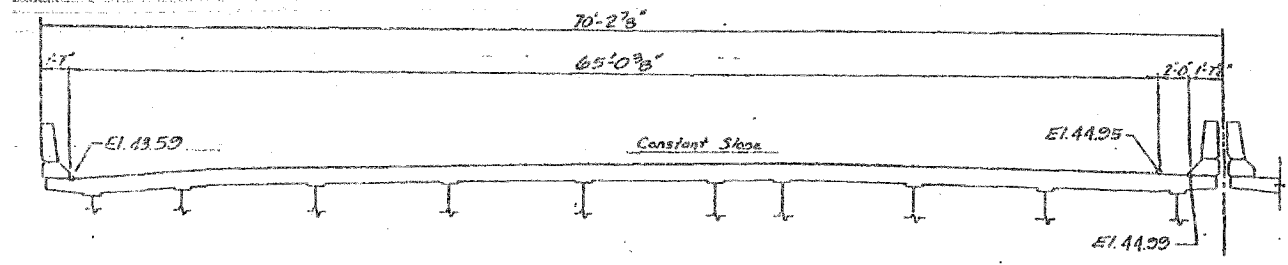
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CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
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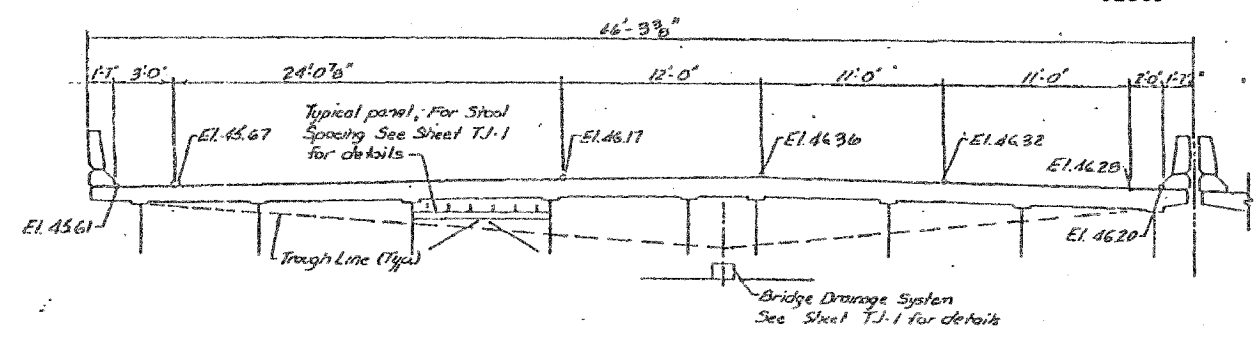
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F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

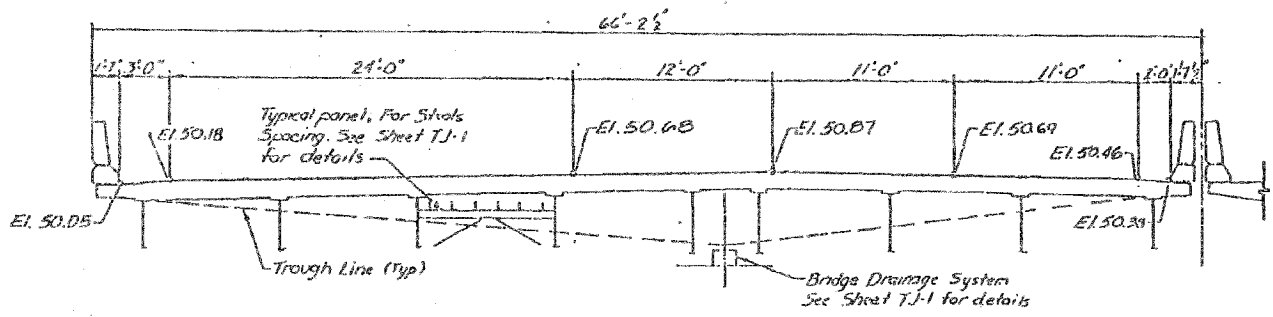
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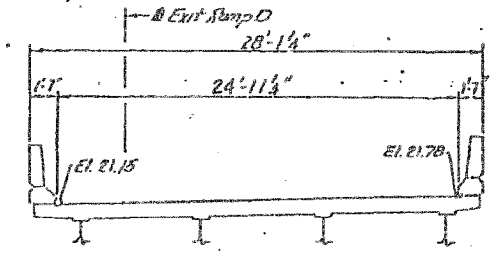
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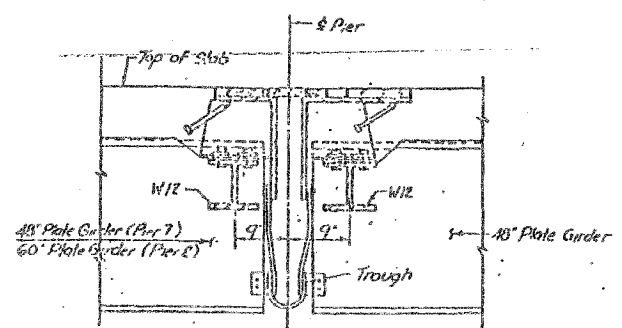
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② EXPANSION JOINT AT PIER No. 7
4 1/2 in. FINGER PLATE



② EXPANSION JOINT AT PIER No. D7
4 in. NEOPRENE



FINGER PLATE EXPANSION JOINT
(TYPICAL CROSS SECTION)

SHEET C17 OF C 38

REVISIONS	
NAME	DATE
② Revision	2-5-06

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.I. ROUTE 90/94 (DAN RYAN EXPRESSWAY)
SECTION 1985-092 B - COOK COUNTY
S.B. MAINLINE RECONSTRUCTION
STRUCTURE 016-1111
TRANSVERSE DECK JOINT ELEVATION
Scale: NONE
Date: AUGUST 14, 1997
DRAWN BY: A.V.
CHECKED BY: M.E.M.
EJMHODDIE ENGINEERS INC.
Chicago, Illinois

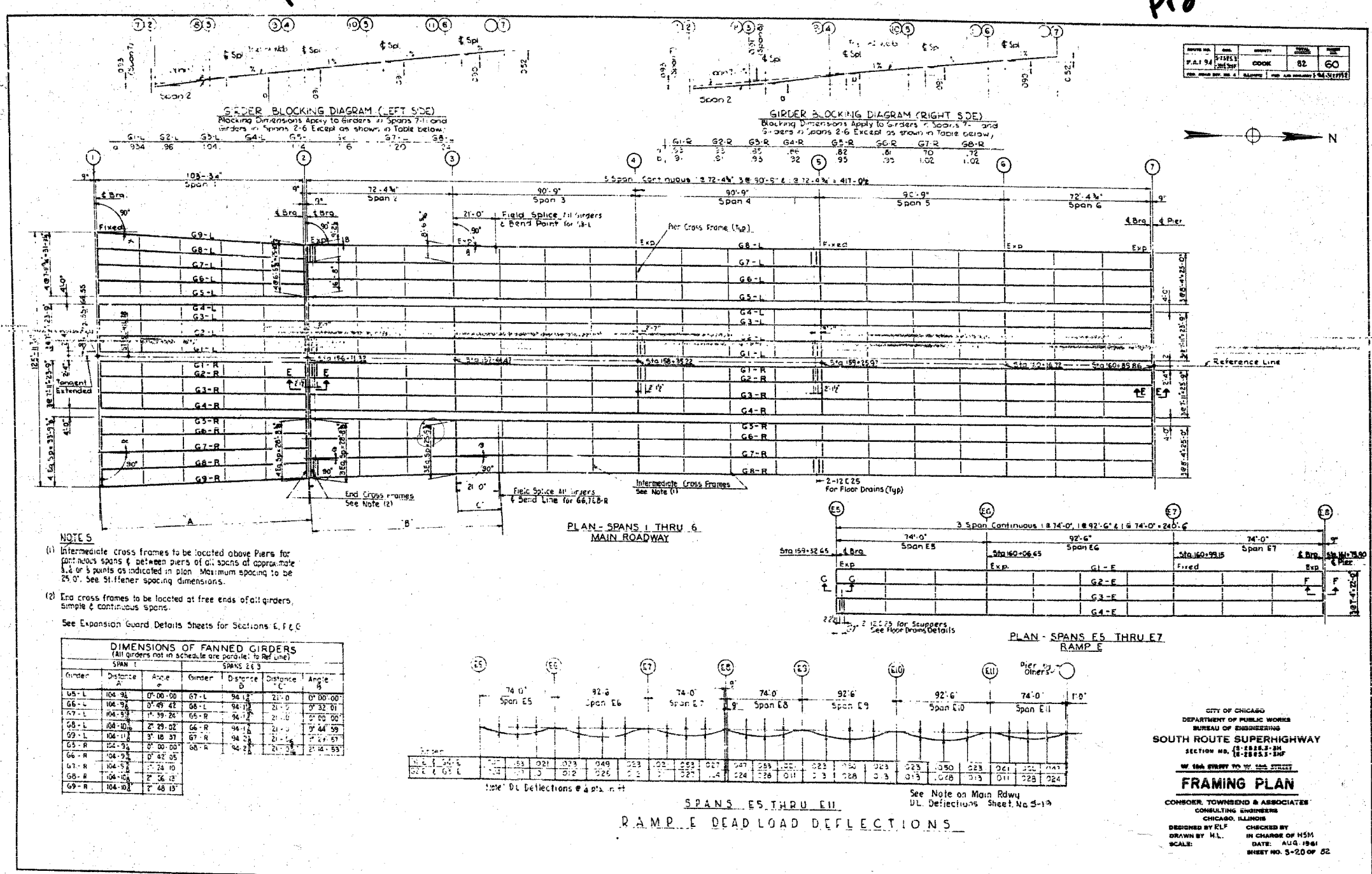
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
SB DAN RYAN ELEVATED BRIDGE
REPAIR FROM 15TH TO 28TH STREETS
EXISTING PLAN INFORMATION
SN 016-1111
SCALE: NTS
DATE: 5/25/2006
DRAWN BY: MTR
CHECKED BY: BLU

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4-4060 TM 5/23/2006



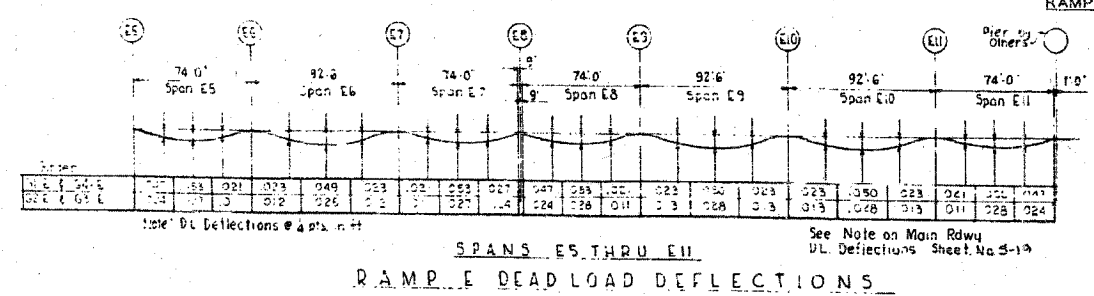
NOTES

(1) Intermediate cross frames to be located above Piers for continuous spans & between piers of all spans of approximate 1:4 or 3 points as indicated in plan. Maximum spacing to be 25'-0". See Stiffener spacing dimensions.

(2) End cross frames to be located at free ends of all girders, simple & continuous spans.

See Expansion Guard Details Sheets for Sections E, F & G

DIMENSIONS OF FANNED GIRDERS				
SPAN 1			SPAN 3	
Girder	Distance A	Angle P	Girder	Distance B
G5-L	104-36	0° 00' 00"	G7-L	94-12
G6-L	104-36	0° 49' 42"	G8-L	94-12
G7-L	104-36	1° 39' 24"	G9-L	94-12
G8-L	104-36	2° 29' 02"	G1-R	94-12
G9-L	104-36	3° 18' 37"	G2-R	94-12
G5-R	104-36	0° 00' 00"	G3-R	94-12
G6-R	104-36	0° 42' 05"	G4-R	94-12
G7-R	104-36	1° 24' 10"	G5-R	94-12
G8-R	104-36	2° 06' 12"	G6-R	94-12
G9-R	104-36	2° 48' 15"	G7-R	94-12



CITY OF CHICAGO
DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING
SOUTH ROUTE SUPERHIGHWAY
SECTION NO. 18-2823-SHP
W. 15th STREET TO W. 28th STREET
FRAMING PLAN
CONSOR, TOWNSEND & ASSOCIATES
CONSULTING ENGINEERS
CHICAGO, ILLINOIS
DESIGNED BY ELP. CHECKED BY H. CHARGE OF HSM.
DRAWN BY H.L. DATE: AUG. 1961
SCALE: SHEET NO. 5-20 OF 52

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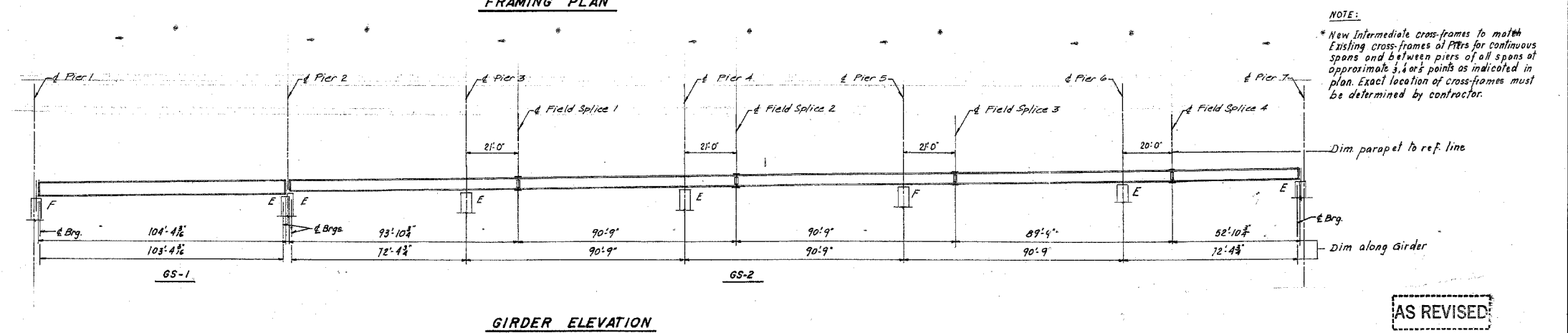
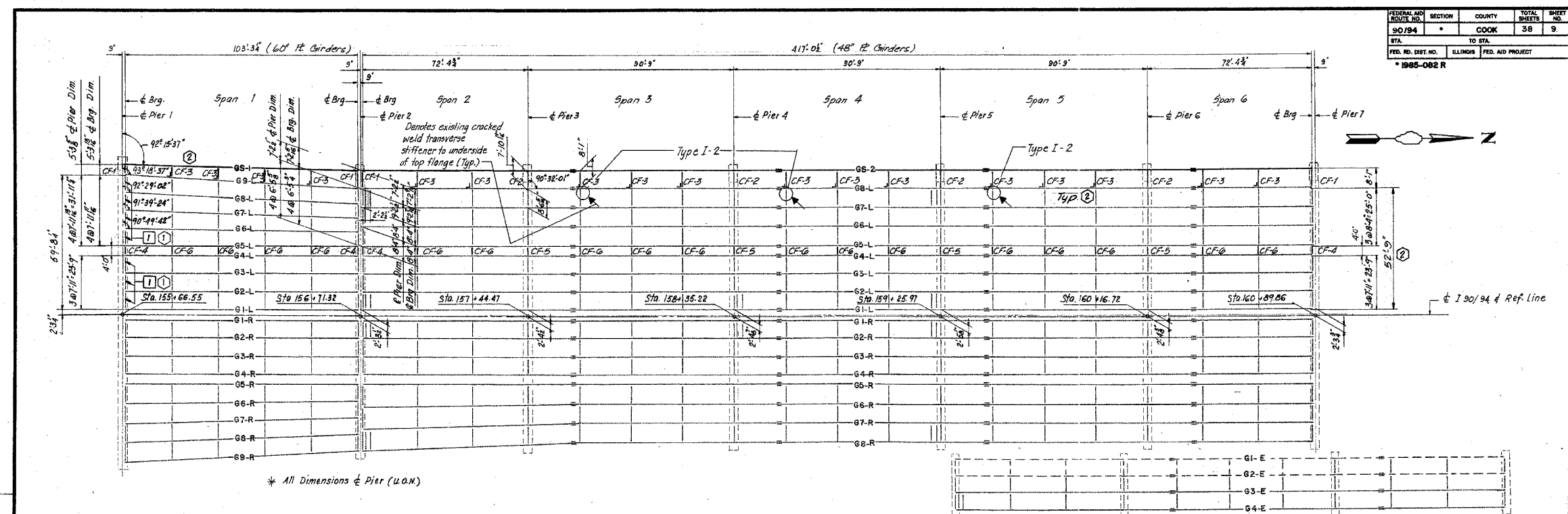
REVISIONS	NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
SB DAN RYAN ELEVATED BRIDGE
REPAIR FROM 15TH TO 28TH STREETS
EXISTING PLAN INFORMATION
SN 016-1111
SCALE: NTS
DATE: 5/25/2006
DRAWN BY: MTR
CHECKED BY: BLU

4-90057 PM 5/23/2006

FEDERAL AID ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	•	COOK	38	9
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

* 1985-082 R



LEGEND

TYPE I-1 1 Replace End Cross Frame (Type I) See Sheet SR3, Vol. 13 for Detail

TYPE I-2 2 Cross-Frame Retrofit at Top Flange (See sheet C16)

DETAIL NUMBER

RETROFIT TYPE

SHEET C9 OF C38

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.I. ROUTE 90/94 (DAN RYAN EXPRESSWAY)
SECTION 1985-082 R - COOK COUNTY
S.B. MAINLINE RECONSTRUCTION
STRUCTURE 016-1111
FRAMING PLAN SPANS 1 TO 6

Scale: NONE
Date: AUG. 14, 1987.

Drawn By: J.G.
Checked By: J.E.M.

ENVIRODYNE ENGINEERS INC.
Chicago, Illinois

REVISIONS

Name	Date
① Revisions	1-18-88
②	2-5-88

AS REVISED

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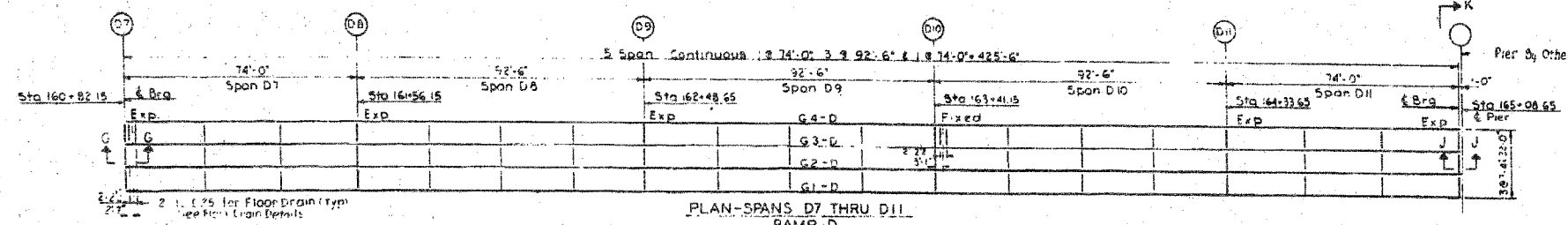
REVISIONS	NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
SB DAN RYAN ELEVATED BRIDGE
REPAIR FROM 15TH TO 28TH STREETS
EXISTING PLAN INFORMATION
SN 016-1111

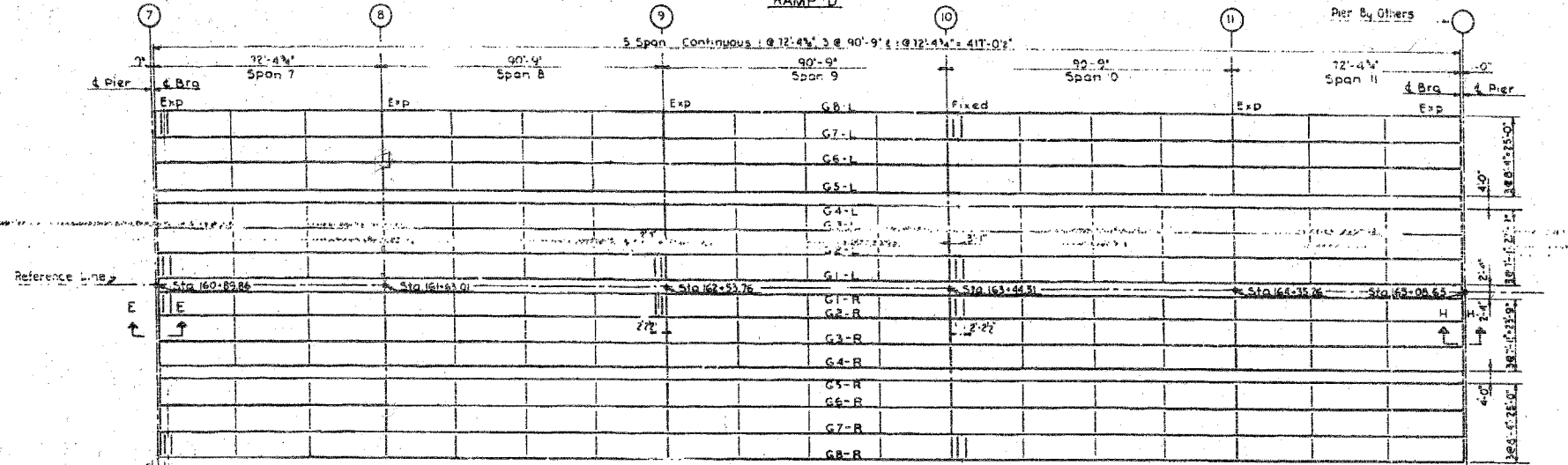
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DATE: 5/25/2006

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CHECKED BY: BLU

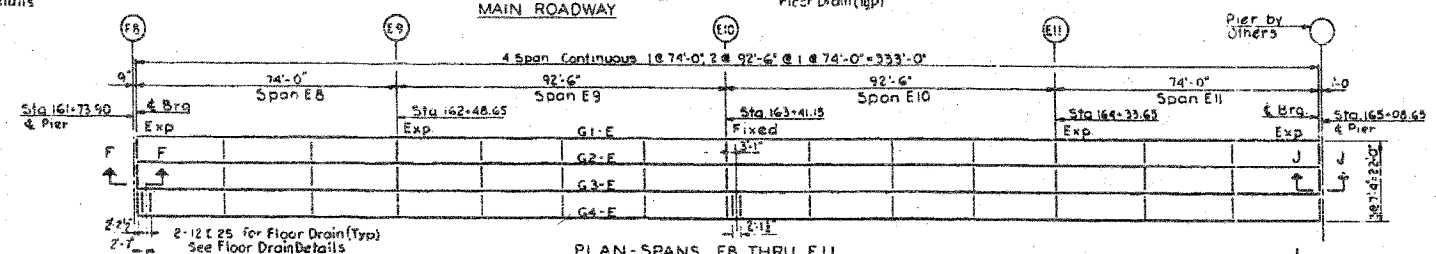
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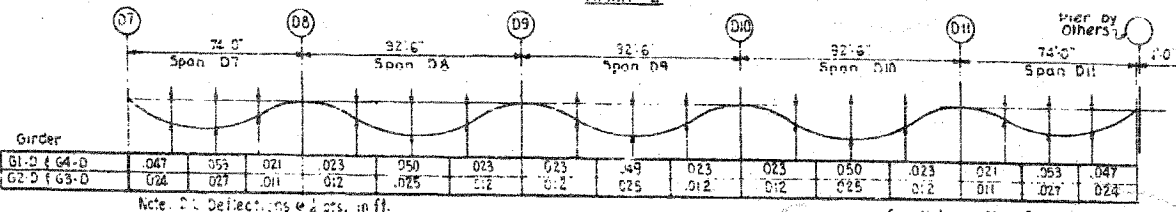
PLAN-SPANS D7 THRU D11
RAMP D



PLAN-SPANS 7 THRU 11
MAIN ROADWAY



PLAN-SPANS E8 THRU E11
RAMP E



SPANS D7 THRU D11
RAMP D DEAD LOAD DEFLECTIONS
Includes Weight of Concrete only



STRUCTURAL STEEL NOTES

- STEEL**
Structural Steel ASTM Designation A-373 shall be used throughout except as noted below.
- ASTM Designation A-7 steel to be used for cross frames, masonry plates, anchor bolts, field splice plates, expansion guards, channel shear connectors, and scupper channels.
- FIELD CONNECTIONS**
Cross Frames - 2" High-Strength Bolts A.S.T.M. A-325
Girder Splices & 4" High-Strength Bolts A.S.T.M. A-325
Expansion Guard Brackets - 1/2" Dia. Ribs Bolts
Scupper Channels - 2" HS Fl. See Sheet S-30
- FIELD PLATE WELDS**
Flange to web with 1/4" fillet welds for flange plates up to and including 1/4" thickness. Use 3/8" fillet welds for flange plates up to and including 1/4" thickness. Use 3/8" fillet welds for flange plates up to and including 2" thickness.
- SPLICES**
Field splices may be vertical or normal to the girders at the option of the fabricator. Holes for field splices shall be reamed with the girders unspliced in position in accordance with the Blocking Diagrams.
Shop web splices shall be made vertical.
- PAINTING**
The Contractor for Section S-2525-3-3HF shall furnish and apply 1 shop coat of red lead paint and 2 field coats of paint to all structural steel except as noted below.
The tops of girder top flanges will not be painted except for a distance of 5 feet each way from interior piers & abutments.

See Expansion Guard Detail Sheets S-25, S-26, S-27 for Sections E, F, G, H, J & K

CITY OF CHICAGO
DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING
SOUTH ROUTE SUPERHIGHWAY
SECTION NO. S-2525-3-3H
W 106 STREET TO W 104 STREET
FRAMING PLAN
CONSOER, TOWNSEND & ASSOCIATES
CONSULTING ENGINEERS
CHICAGO, ILLINOIS
DESIGNED BY RLF
DRAWN BY H.L.
SCALE:
CHECKED BY IN CHARGE OF H5M
DATE: AUG 1981
SHEET NO. S-21 OF 82

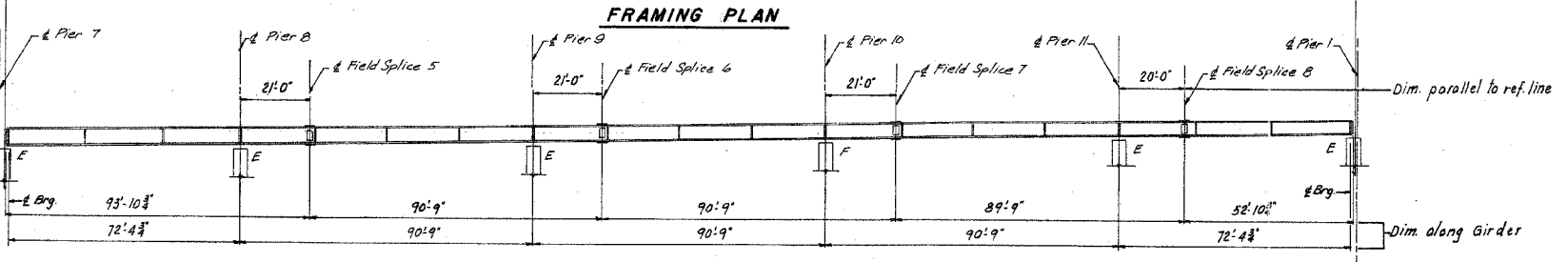
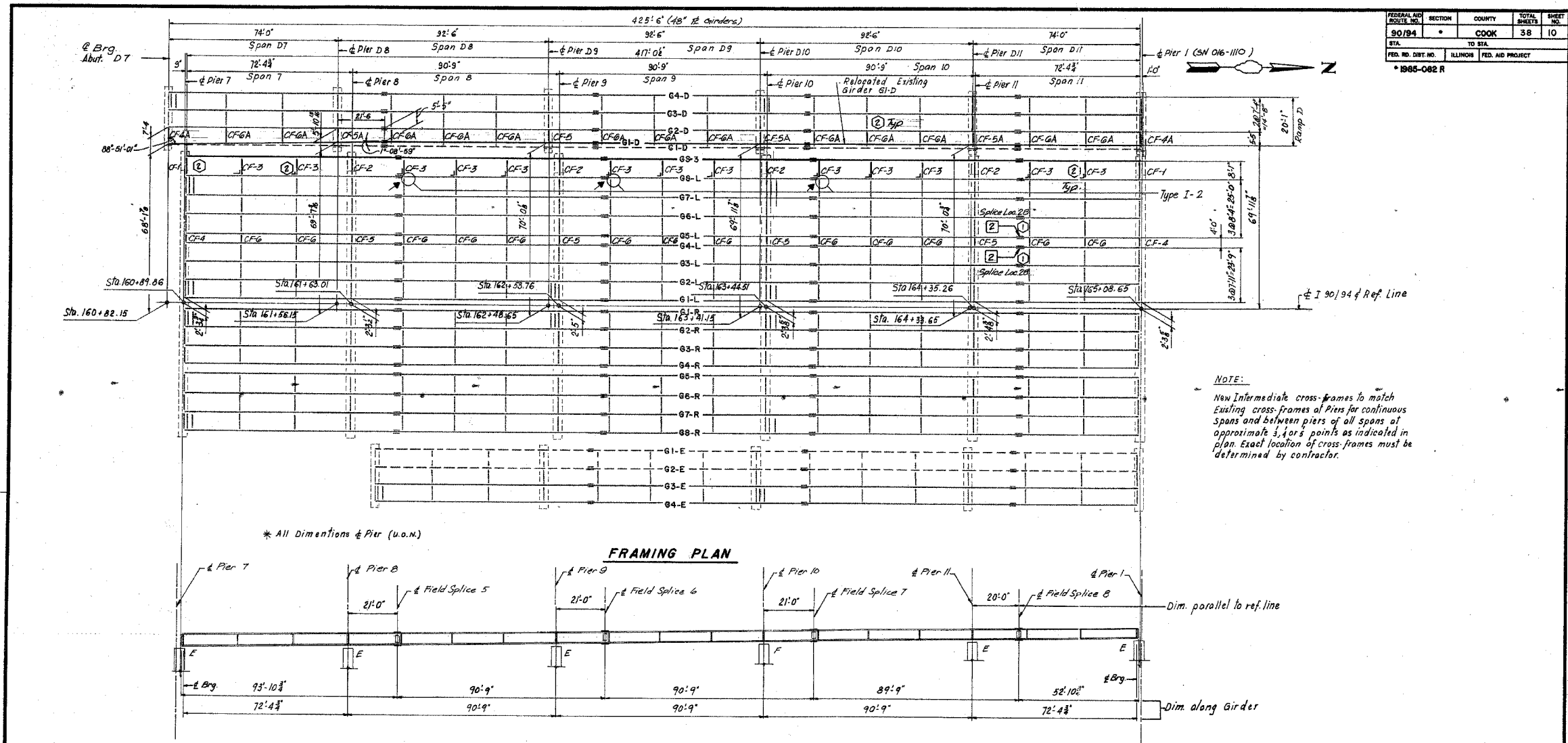
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312.228.0100
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FOR INFORMATION ONLY

REVISIONS	NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
SB DAN RYAN ELEVATED BRIDGE
REPAIR FROM 15TH TO 28TH STREETS
EXISTING PLAN INFORMATION
SN 016-1111
SCALE: NTS
DATE: 5/25/2006
DRAWN BY: MTR
CHECKED BY: BLU

4-45370 5/23/2006



GIRDER ELEVATION GS-3

LEGEND

① ② Replace Splice Plate Bolts Only

Type I - L
 Detail Number
 Retrofit Type

Type I: Cross-Frame Retrofit at Top Flange (See Sheet C16)

SHEET C10 OF C39

REVISIONS	Name	Date
①	Revisions	Jan 28, 98
②		2-5-98

AS REVISED

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 F.A.I. ROUTE 90/94 (DAN RYAN EXPRESSWAY)
 SECTION 1985-082 R - COOK COUNTY
 S.B. MAINLINE RECONSTRUCTION
 STRUCTURE 016-1111
 FRAMING PLAN SPANS 7 TO 11

Scale: NONE
 Date: AUG. 14, 1987
 Drawn By: J.G.
 Checked By: M.E.M.
 ENVIRODYNE ENGINEERS INC.
 Chicago, Illinois

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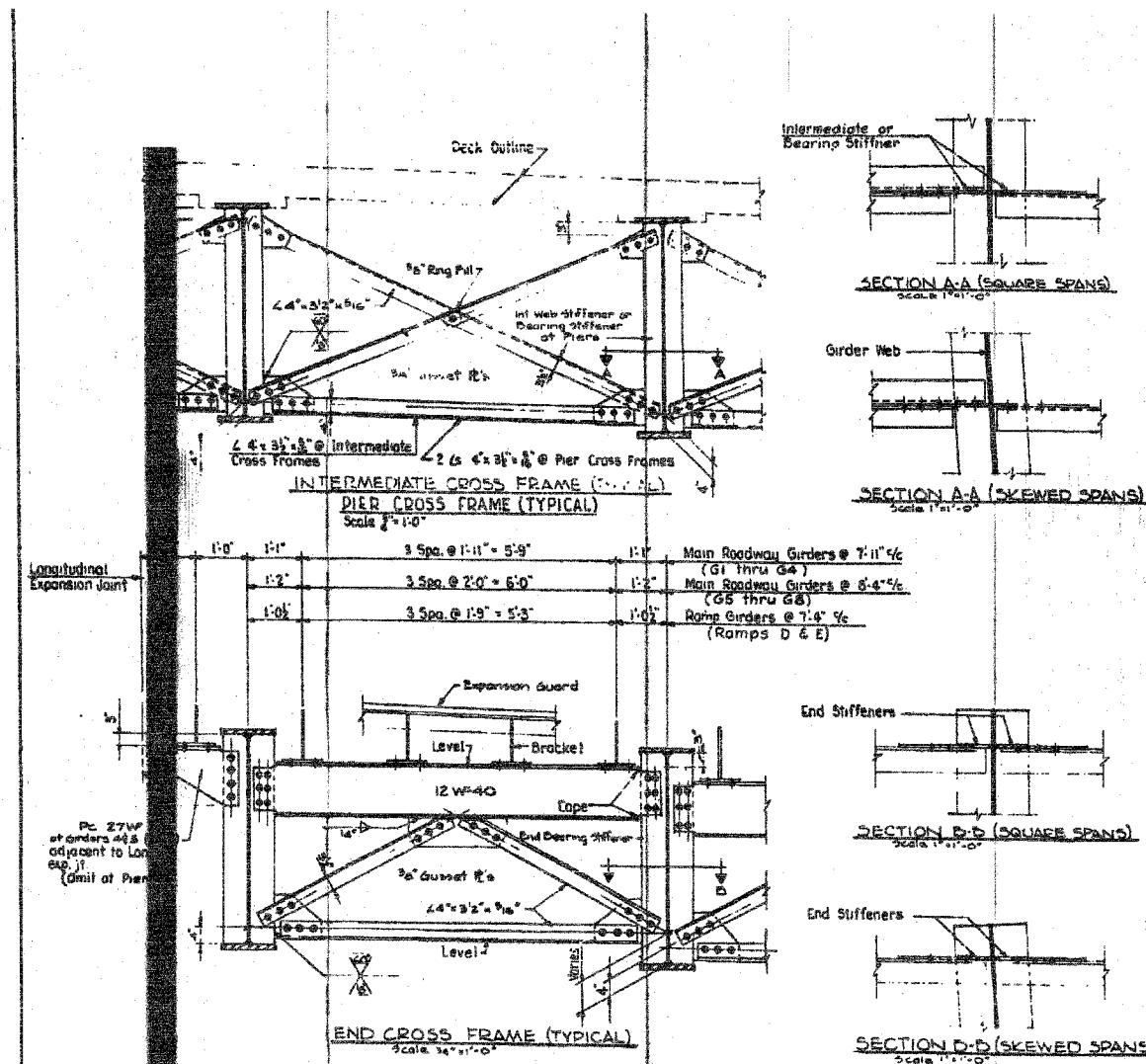
FOR INFORMATION ONLY

REVISIONS	NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 SB DAN RYAN ELEVATED BRIDGE
 REPAIR FROM 15TH TO 28TH STREETS
 EXISTING PLAN INFORMATION
 SN 016-1111

SCALE: NTS
 DATE: 5/25/2006
 DRAWN BY: MTR
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4/4/90 PM



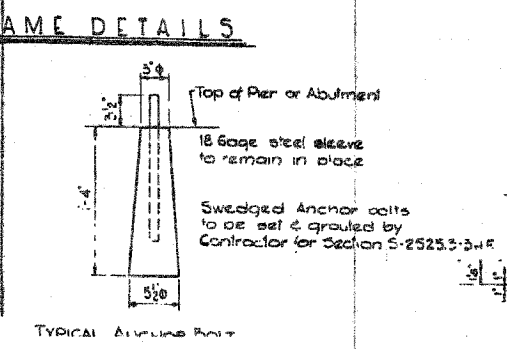
NOTES

Expansion Guard bracket spacings shown are typical at locations where girders are parallel.

Dimensions to be adjusted by detailer where girders are formed. Hold bracket spacings to E3 max. See Framing Plans for 1/4" dimensions of lapped girders.

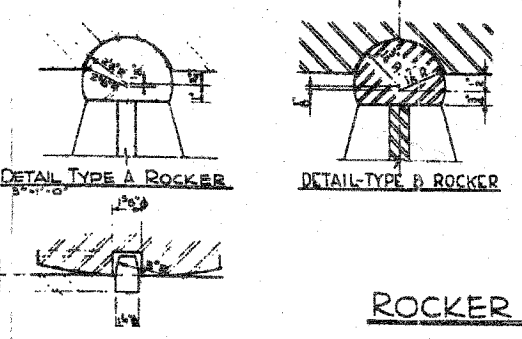
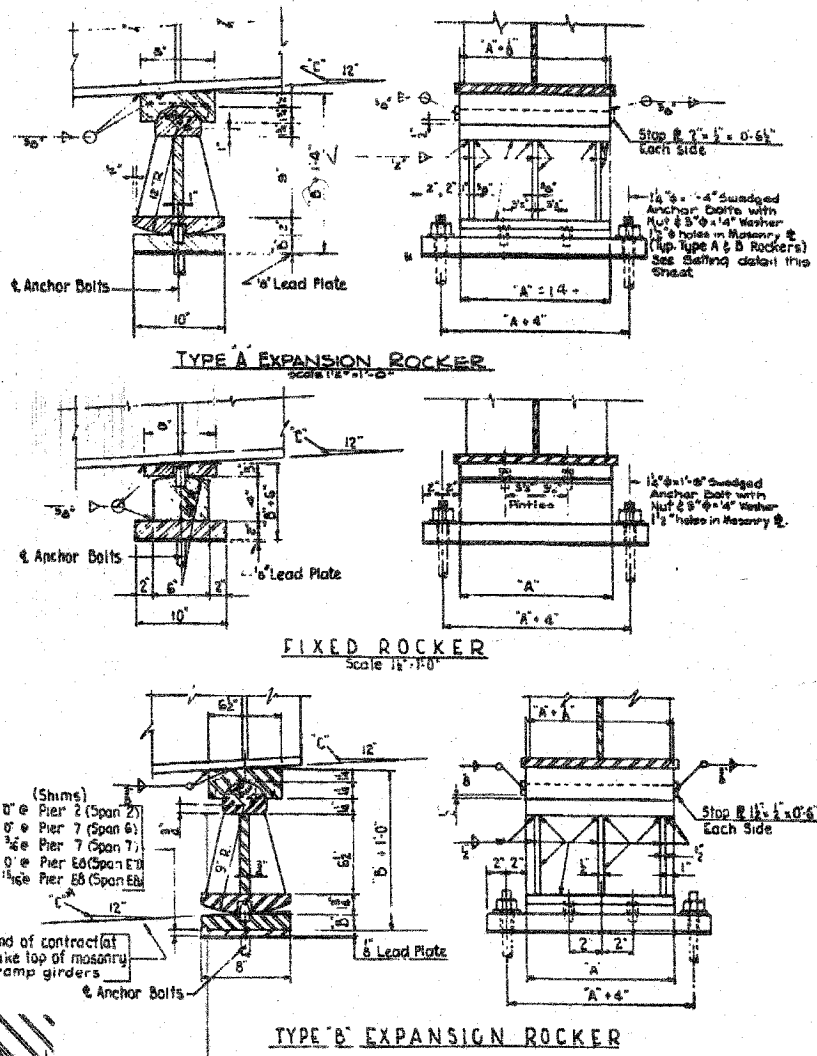
Special bracket spacing dimensions to be used at north end of contract to meet expansion guard supplied by others. See Expansion Guard Details Sheet 5-27.

Intermediate Cross Frames and End Cross Frames shown are typical for simple spans & continuous spans. Pier cross frames typical are at interior piers of continuous spans. See Framing Plans & Girder Details for girder dimensions & spacings.



ROCKER SCHEDULE

Girder	Type	A'	B'	C'
PIER 1-SPAN 1				
G1-L&R	Fixed	10'	1 1/2'	1/2'
G2,3-L&R	Fixed	10'	1 1/2'	1/2'
G4,5-L&R	Fixed	10'	1 1/2'	1/2'
G6-9-L&R	Fixed	10'	1 1/2'	1/2'
PIER 2-SPAN 1				
G1-L&R	B	11'	1 1/2'	1/2'
G2,3-L&R	B	11'	1 1/2'	1/2'
G4,5-L&R	B	11'	1 1/2'	1/2'
G6-9-L&R	B	11'	1 1/2'	1/2'
PIER 2-SPAN 2				
G1-L&R	B	10'	1 1/2'	1/2'
G2,3-L&R	B	10'	1 1/2'	1/2'
G4,5-L&R	B	10'	1 1/2'	1/2'
G6-9-L&R	B	10'	1 1/2'	1/2'
PIERS 3,4,6,8,9 & 11				
G1-L&R	A	11'	1 1/2'	1/2'
G2,3-L&R	A	15'	1 1/2'	1/2'
G4,5-L&R	A	12'	1 1/2'	1/2'
G6-9-L&R	A	14'	2'	1/2'
PIER 7 & PIER BY OTHERS				
G1-L&R	B	10'	1 1/2'	1/2'
G2,3-L&R	B	10'	1 1/2'	1/2'
G4,5-L&R	B	10'	1 1/2'	1/2'
G6-9-L&R	B	10'	1 1/2'	1/2'
PIERS 5 & 10				
G1-L&R	Fixed	11'	1 1/2'	1/2'
G2,3-L&R	Fixed	13'	1 1/2'	1/2'
G4,5-L&R	Fixed	12'	1 1/2'	1/2'
G6-9-L&R	Fixed	14'	1 1/2'	1/2'
RAMP E				
ABUTMENT E9 & PIER BY OTHERS				
All Girders	B	10'	1 1/2'	1/2'
PIERS E6, E9, & E11				
All Girders	A	14'	2'	1/2'
PIERS E7 & E10				
All Girders	Fixed	14'	1 1/2'	1/2'
PIER E8				
All Girders	B	10'	1 1/2'	1/2'
RAMP D				
ABUTMENT D7 & PIER BY OTHERS				
All Girders	B	10'	1 1/2'	1/2'
PIER D8, D9, & D11				
All Girders	A	14'	2'	1/2'
PIER D10				
All Girders	Fixed	14'	1 1/2'	1/2'



ROCKER DETAILS

CITY OF CHICAGO
 DEPARTMENT OF PUBLIC WORKS
 BUREAU OF SUPERHIGHWAY
SOUTH ROUTE SUPERHIGHWAY
 SECTION NO. 18-1025.2-SH
 W. 156th STREET TO W. 158th STREET
CROSS FRAMES & ROCKERS
 CONSOR. TOWNSEND & ASSOCIATES
 CONSULTING ENGINEERS
 CHICAGO, ILLINOIS
 DESIGNED BY RLF CHECKED BY MTR
 DRAWN BY MTR IN CHARGE OF HSM

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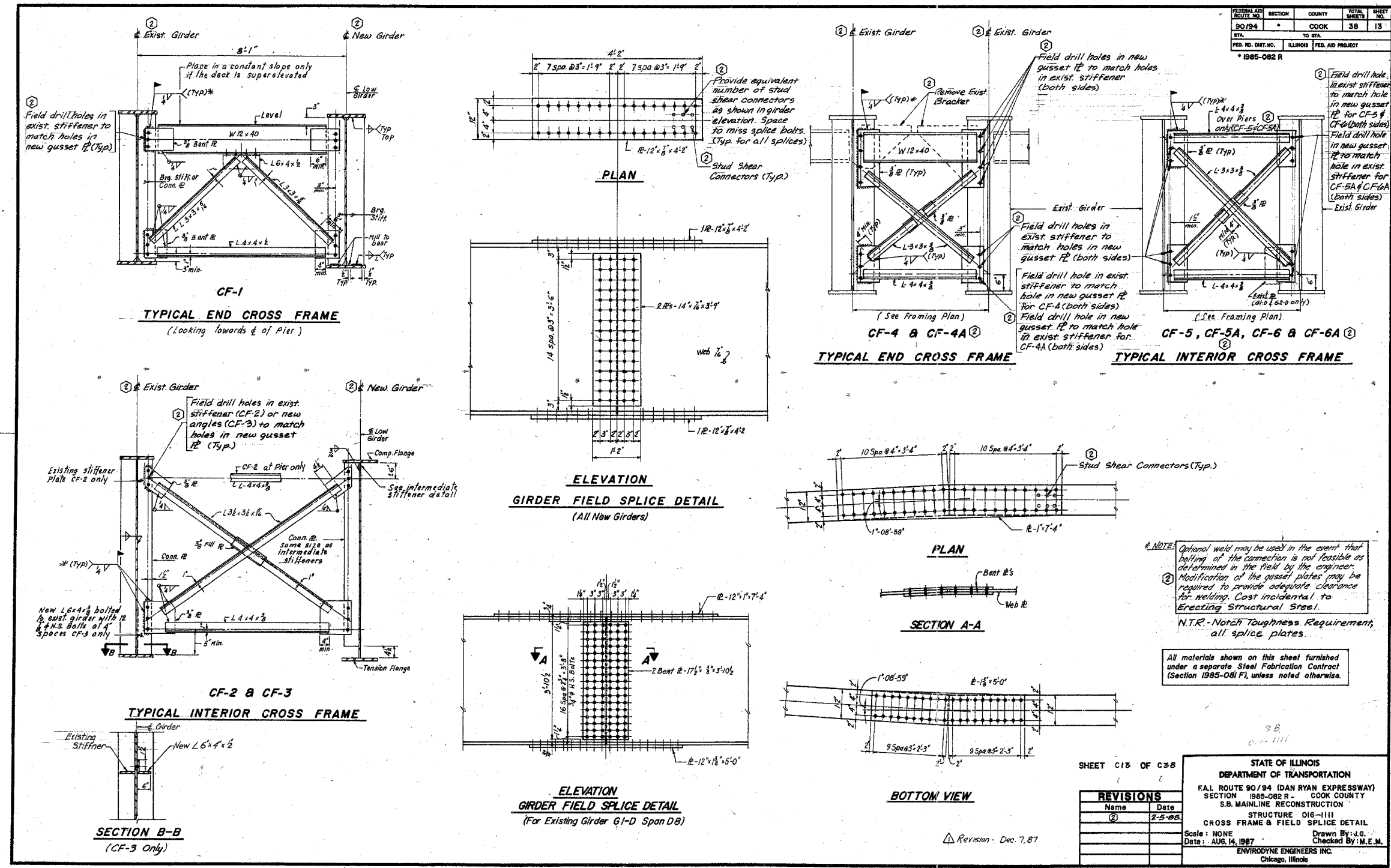
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 SB DAN RYAN ELEVATED BRIDGE
 REPAIR FROM 15TH TO 28TH STREETS
 EXISTING PLAN INFORMATION
 SN 016-1111

SCALE: NTS
 DATE: 5/25/2006

DRAWN BY: MTR
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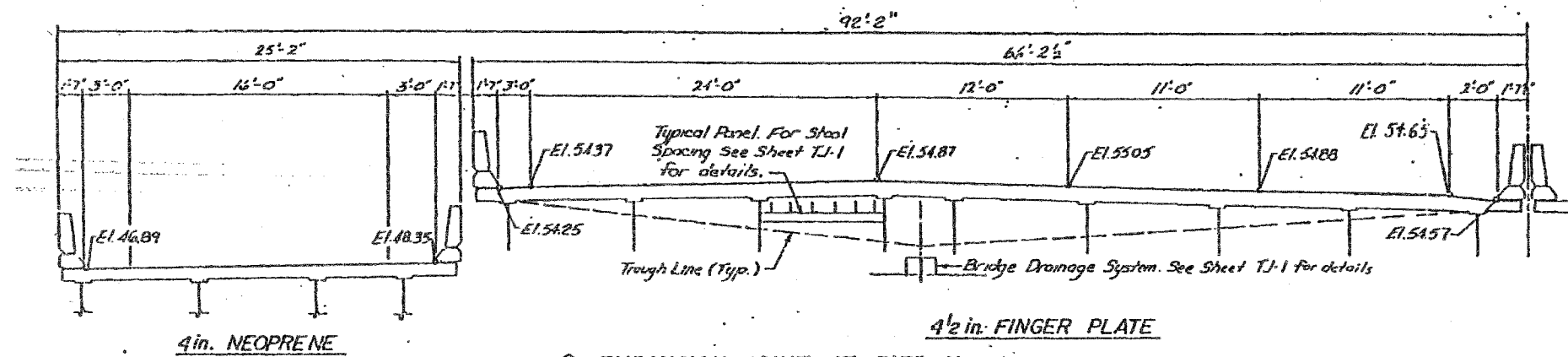
ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
SB DAN RYAN ELEVATED BRIDGE
REPAIR FROM 15TH TO 28TH STREETS
EXISTING PLAN INFORMATION
SN 016-1111

SCALE: NTS
DATE: 5/25/2006

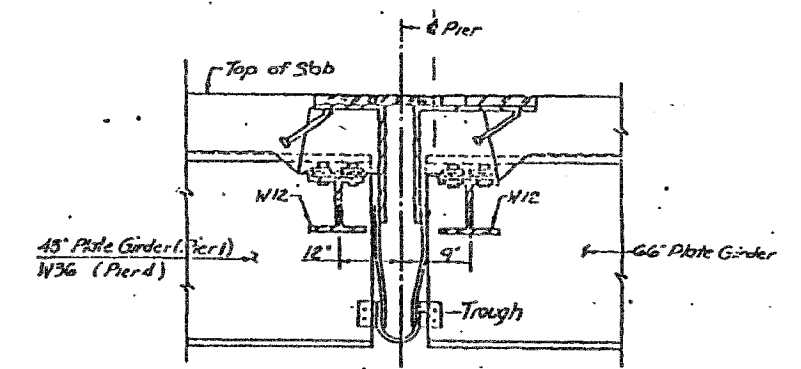
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44054 FM 5/23/2006

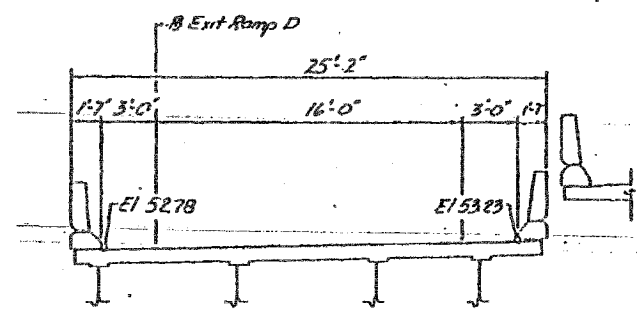
F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	2003-029BR	COOK	344	324
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
62581				



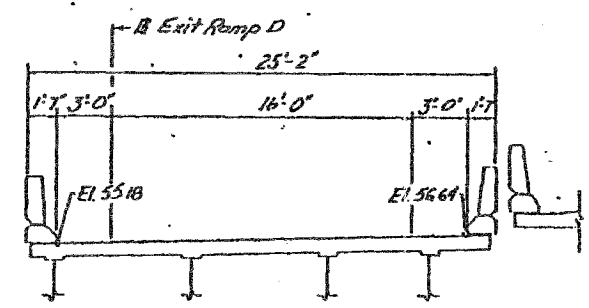
② EXPANSION JOINT AT PIER No. 1
4 1/2 in. FINGER PLATE



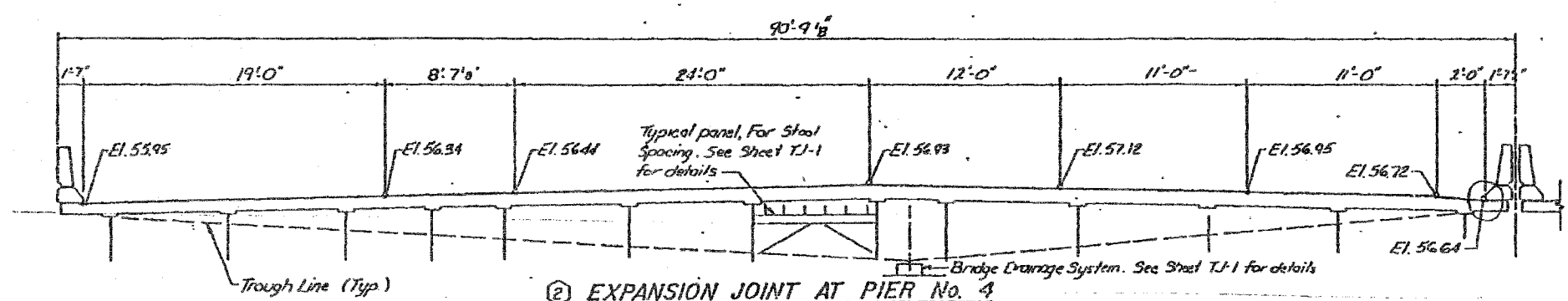
FINGER PLATE EXPANSION JOINT
(TYPICAL CROSS SECTION)



② EXPANSION JOINT 'A' SPAN 2
2 1/2 in. PREFORMED JOINT SEAL



② EXPANSION JOINT 'B' SPAN 2
2 in. NEOPRENE



② EXPANSION JOINT AT PIER No. 4
4 1/2 in. FINGER PLATE

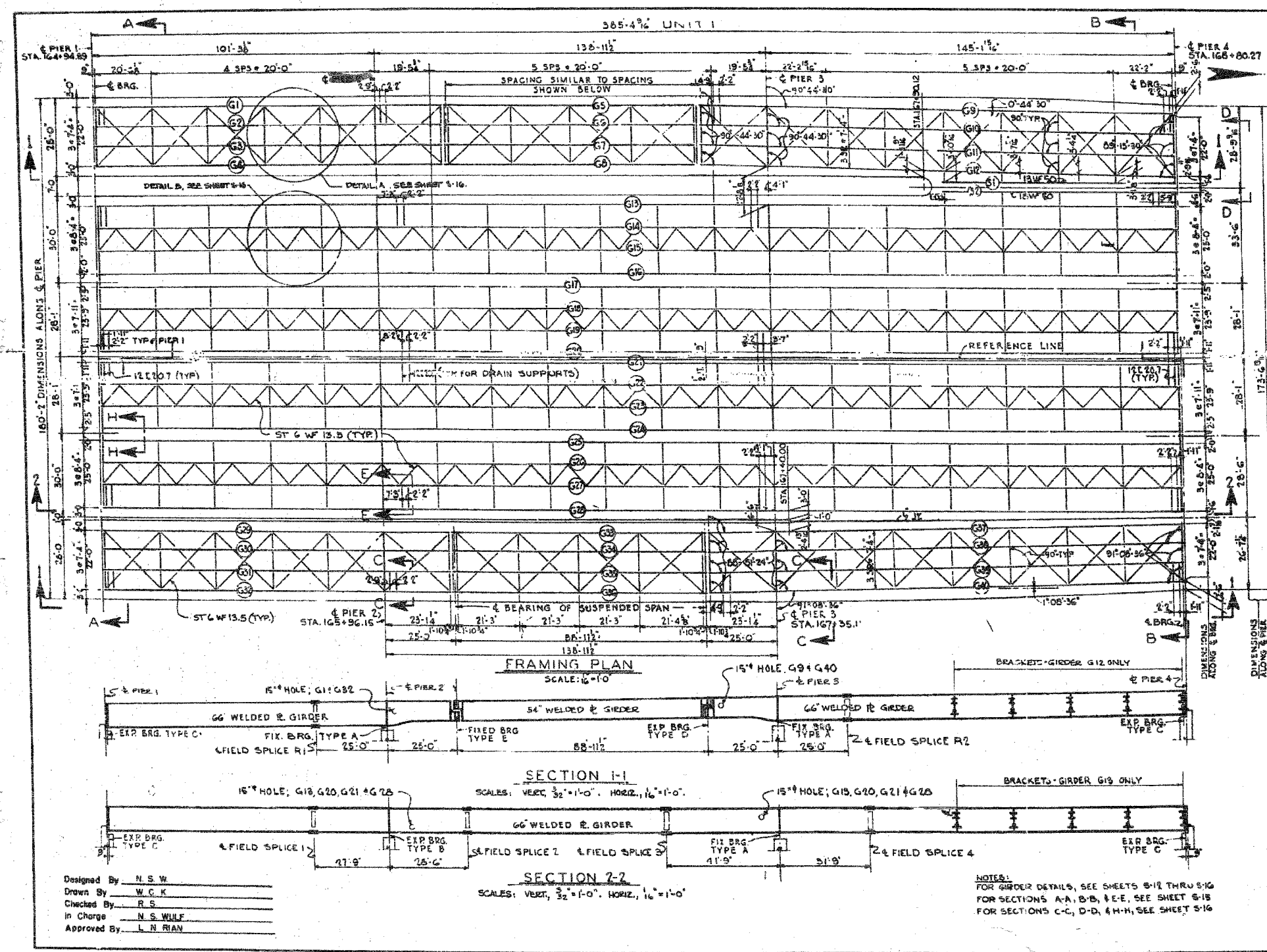
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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
SB DAN RYAN ELEVATED BRIDGE
REPAIR FROM 15TH TO 28TH STREETS
EXISTING PLAN INFORMATION
SN 016-1110
SCALE: NTS
DATE: 5/25/2006
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4-4624 PM 5/23/2006



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 94-25223-2H	COOK	56	28	
FED. ROAD DIST. NO. (ILLINOIS)		PROJECT 1-94-25223-2H		

STRUCTURAL STEEL NOTES

ALL FURNISHING, FABRICATING, TRANSPORTING, ERECTING AND PAINTING OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH SECTIONS 54 AND 58 OF THE STANDARD SPECIFICATIONS.

EXCEPT WHERE OTHERWISE NOTED, ALL STRUCTURAL STEEL SHALL CONFORM TO SPECIFICATIONS FOR STEEL FOR BRIDGES AND BUILDINGS ASTM DESIGNATION A-7 AND ASTM DESIGNATION A-36 AND WHERE APPLICABLE, TO THE REQUIREMENTS OF ARTICLE 124.2, AND 124.3 (a) OF THE STANDARD SPECIFICATIONS.

BEARING AND SPlice NOTES:-

ALL GIRDER FIELD SPICES SHALL BE SUB-PUNCHED, REAMED AND MATCH-MARKED FOR SHIPMENT WHILE THE MEMBERS ARE SHOP ASSEMBLED IN PROPER ALIGNMENT WITH OR WITHOUT DIAPHRAGMS. ALL GIRDER FIELD SPICES SHALL BE SUB-PUNCHED 17/16\"/>

ALL GIRDERS SHALL BE ERECTED FULL LENGTH IN THE SHOP BEFORE BEARING AND INSPECTION.

STRUCTURAL STEEL SHALL RECEIVE ONE SHOP COAT OF RED LEAD PAINT. PARTS UNACCESSIBLE AFTER ERECTION SHALL HAVE TWO SHOP COATS OF RED LEAD PAINT. FOR ADDITIONAL SHOP AND FIELD PAINT CONTS, SEE THE SPECIAL PROVISIONS.

ALL ROLLERS, ROCKERS, BOLSTERS, BEARING PLATES, LEAD PLATES, FINISHES, ANCHOR BOLTS AND SPICES SHALL BE FABRICATED AND SET IN ACCORDANCE WITH ARTICLES 54.5 OF THE STANDARD SPECIFICATIONS AND SHALL BE FINISHED IN ACCORDANCE WITH ARTICLE 24.6(a). THESE ITEMS ARE INCLUDED IN THE WEIGHT OF STRUCTURAL STEEL.

SPICE PLATES TO BE MATCH-MARKED FOR SHIPMENT.

ANCHOR BOLTS SHALL BE SET BEFORE BOLTING DIAPHRAGMS OVER PIERS AND ABUTMENTS.

FINISHED SURFACES OF BEARINGS AND ROLLERS SHALL BE TREATED WITH ZINC-RICH COMPOUND BEFORE SHIPMENT AS STATED IN ARTICLE 24.4 OF THE STANDARD SPECIFICATIONS.

ALL FIELD CONNECTIONS SHALL BE MADE WITH 3/4\"/>

ALL RIVETS, UNLESS OTHERWISE SHOWN OR NOTED, SHALL BE 3/4\"/>

KEY PLAN

SUMMARY OF STRUCTURAL STEEL UNIT

ITEM	UNIT	QUANTITY	QUANTITY
		ASTM A7	ASTM A36
GIRDERS	POUND		2,654,881
CROSS FRAMES	POUND	166,854	
LATERAL BRACINGS	POUND	108,325	
GIRDER BEARINGS	POUND	87,800	
EXPANSION GUARDS	POUND	81,032	
TOTAL	POUND	589,011	2,654,881

INCLUDED IN SUMMARY ON SHEET 21

CITY OF CHICAGO
DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING
SOUTH ROUTE SUPERHIGHWAY
ELEVATED HIGHWAY
W. 16TH. ST. TO W. 15 TH. ST.
87...UN 8-25223.3-2H

STEEL FRAMING PLAN
UNIT 2

DE LEUW, CATHNER & COMPANY
CONSULTING ENGINEERS CHICAGO
SCALE: AS NOTED DATE: AUGUST, 1961
SHEET 5 II OF 56 SHEETS

NOTES:
FOR GIRDER DETAILS, SEE SHEETS 5-12 THRU 5-16
FOR SECTIONS A-A, B-B, & E-E, SEE SHEET 5-15
FOR SECTIONS C-C, D-D, & H-H, SEE SHEET 5-16

DESIGNED BY: N.S.W.
DRAWN BY: W.C.K.
CHECKED BY: R.S.
IN CHARGE: N.S.WILF
APPROVED BY: L.N. RIAN

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ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
SB DAN RYAN ELEVATED BRIDGE
REPAIR FROM 15TH TO 28TH STREETS
EXISTING PLAN INFORMATION
SN 016-1110

SCALE: NTS
DATE: 5/25/2006

DRAWN BY: MTR
CHECKED BY: BLU

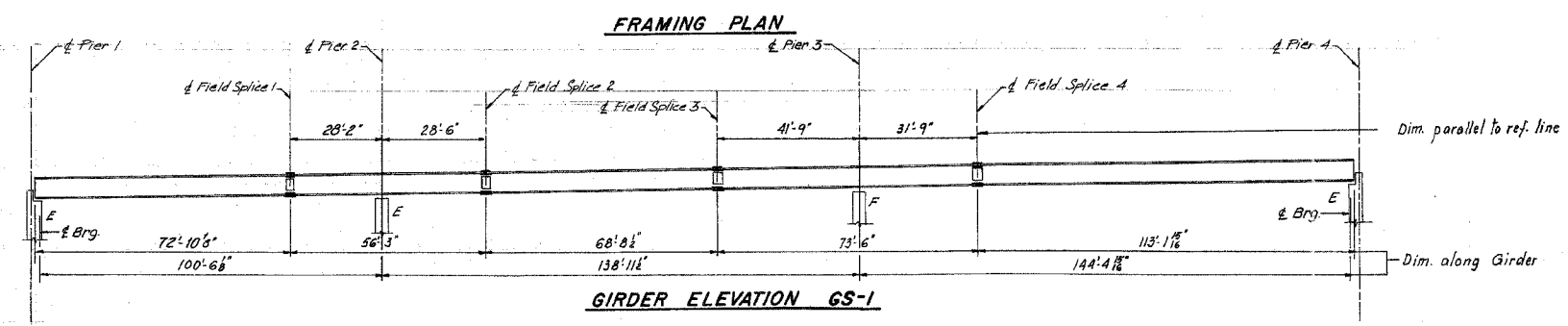
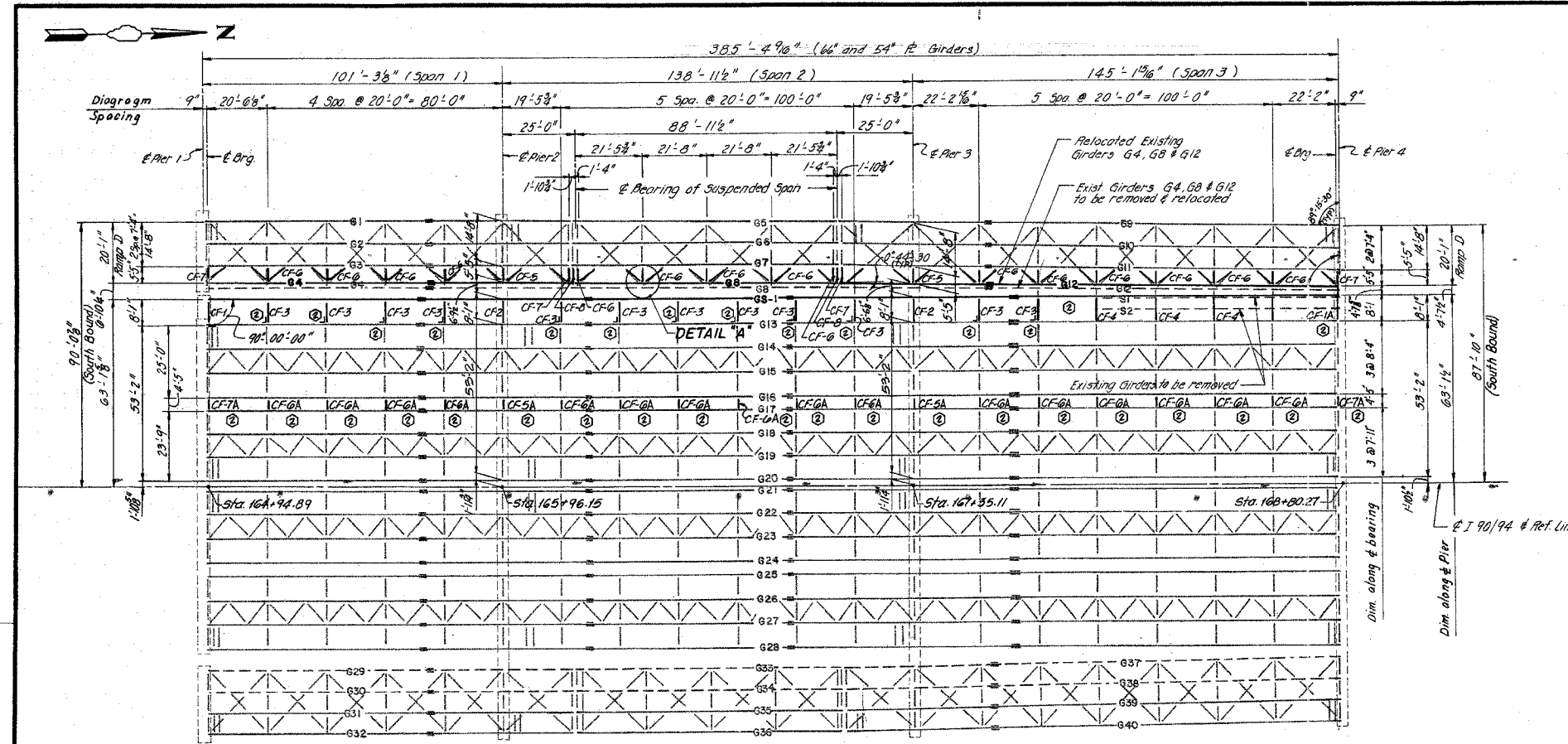
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2/23/2006
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F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	2003-0291	COOK	344	326
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

62581

FEDERAL AID ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	*	COOK	32	8
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* 1985-082R



Note:
For Detail 'A' see sheet B14

SHEET B8 OF B32

REVISIONS	
Name	Date
(2)	2-5-88

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.I. ROUTE 90/94 (DAN RYAN EXPRESSWAY)
SECTION 1985-082R COOK COUNTY
S.B. MAINLINE RECONSTRUCTION
STRUCTURE 016-1110
FRAMING PLAN SPANS 1 TO 3
Scale: NONE
Date: AUG. 14, 1987
Checked By: J.G.
ENVIRODYNE ENGINEERS INC.
Chicago, Illinois

BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
www.bbainc.com

FOR INFORMATION ONLY

REVISIONS	
NAME	DATE

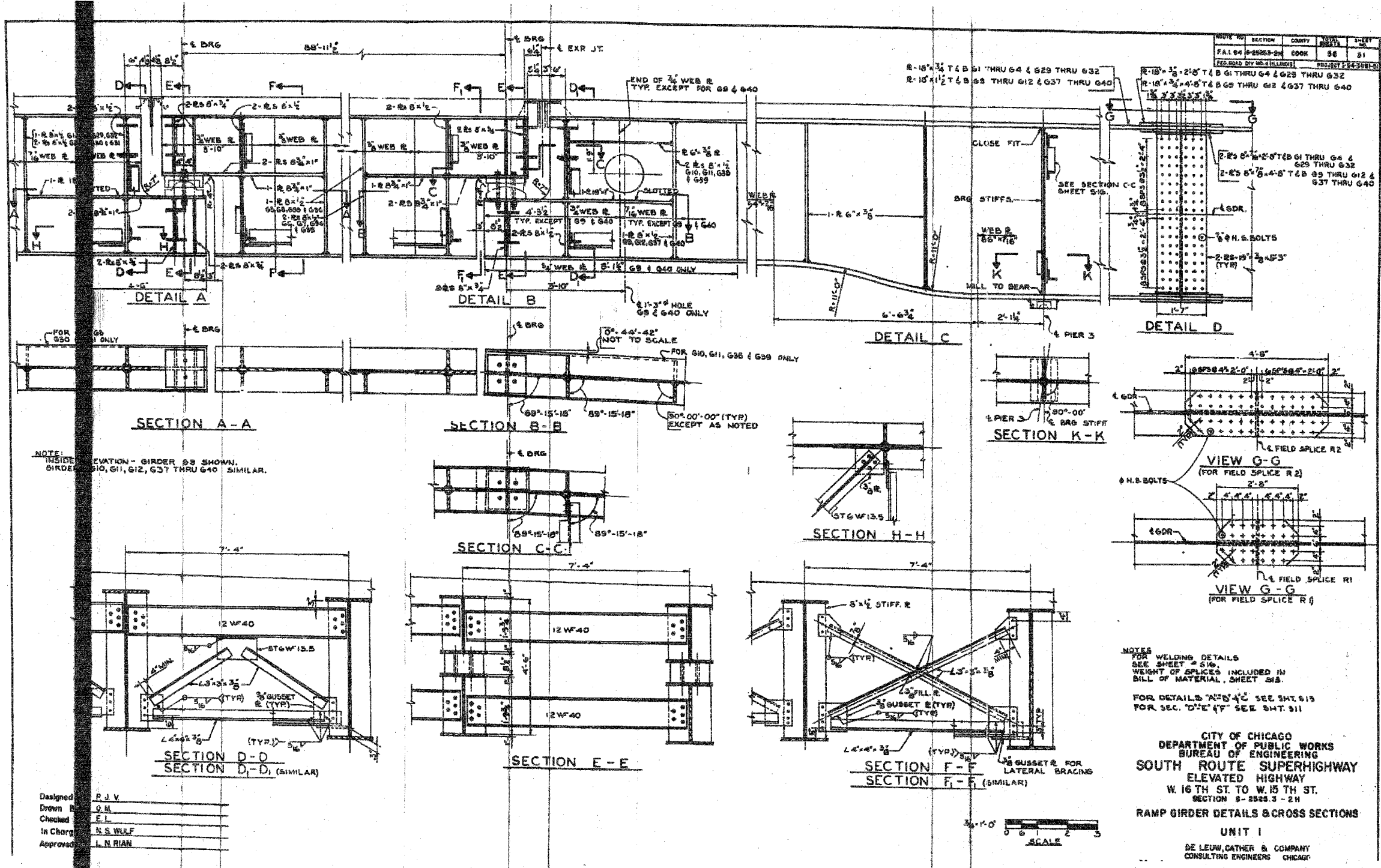
ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
SB DAN RYAN ELEVATED BRIDGE
REPAIR FROM 15TH TO 28TH STREETS
EXISTING PLAN INFORMATION
SN 016-1110
SCALE: NTS
DATE: 5/25/2006
DRAWN BY: MTR
CHECKED BY: BLU

F:\9400\9400\BRIDGE\SN SHEETS\660_21.FP.DWG (10/24/97)

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	2003-0291	COOK	344	327
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

62581

5/23/2006 4:55:13 PM



NOTE: INSIDE ELEVATION - GIRDER G9 SHOWN. GIRDER G10, G11, G12, G37 THRU G40 SIMILAR.

NOTES FOR WELDING DETAILS SEE SHEET 510. WEIGHT OF SPICES INCLUDED IN BILL OF MATERIAL, SHEET 518. FOR DETAILS "A" & "C" SEE SMT. 513. FOR SEC. "D" & "E" SEE SMT. 511.

CITY OF CHICAGO
DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING
SOUTH ROUTE SUPERHIGHWAY
ELEVATED HIGHWAY
W. 16 TH ST. TO W. 15 TH ST.
SECTION 5-2825.3 - 2H
RAMP GIRDER DETAILS & CROSS SECTIONS
UNIT 1
DE LEUW, CATHER & COMPANY
CONSULTING ENGINEERS CHICAGO

Designed	P. J. V.
Drawn	G. H.
Checked	E. L.
In Charge	N. S. WULF
Approved	L. N. RIAN

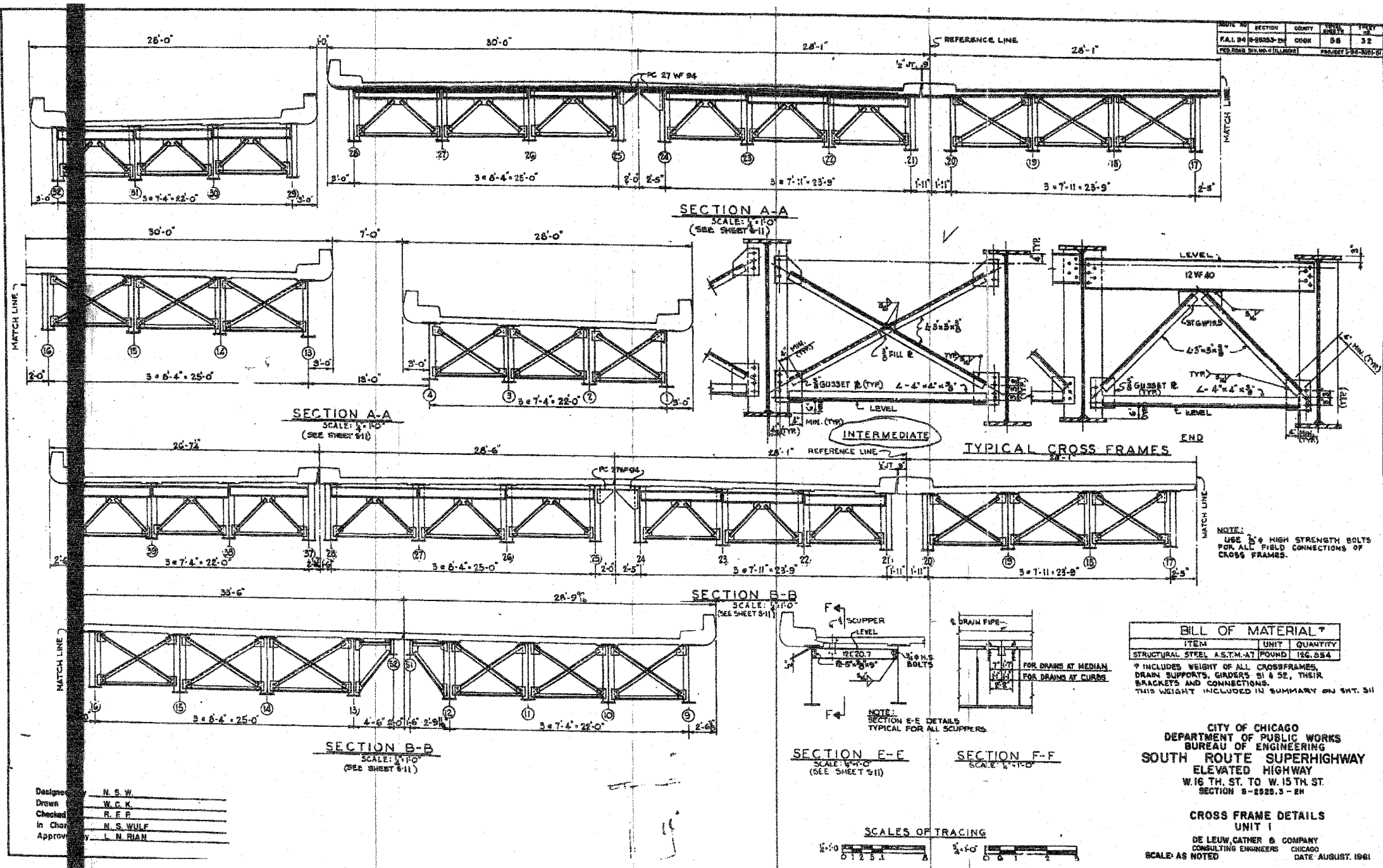
BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
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FOR INFORMATION ONLY

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
SB DAN RYAN ELEVATED BRIDGE
REPAIR FROM 15TH TO 28TH STREETS
EXISTING PLAN INFORMATION
SN 016-1110
SCALE: NTS
DATE: 5/25/2006
DRAWN BY: MTR
CHECKED BY: BLU

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	2003-0291	COOK	344	328
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
62581				



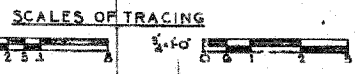
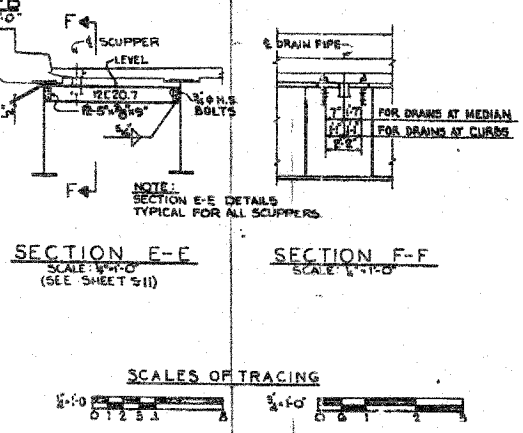
Designer: N. S. W.
 Drawn: W. G. K.
 Checked: R. F. P.
 In Charge: N. S. WULF
 Approved: L. N. RIAN

BILL OF MATERIAL *

ITEM	UNIT	QUANTITY
STRUCTURAL STEEL A.S.T.M.-A7	POUND	126,854

* INCLUDES WEIGHT OF ALL CROSSFRAMES, DRAIN SUPPORTS, GIRDERS S1 & S2, THEIR BRACKETS AND CONNECTIONS. THIS WEIGHT INCLUDED IN SUMMARY ON SHT. 311

CITY OF CHICAGO
 DEPARTMENT OF PUBLIC WORKS
 BUREAU OF ENGINEERING
 SOUTH ROUTE SUPERHIGHWAY
 ELEVATED HIGHWAY
 W. 16 TH. ST. TO W. 15 TH. ST.
 SECTION 8-2828.3 - 2H
CROSS FRAME DETAILS
 UNIT I
 DE LEUW, CATHNER & COMPANY
 CONSULTING ENGINEERS CHICAGO
 SCALE: AS NOTED DATE: AUGUST, 1961



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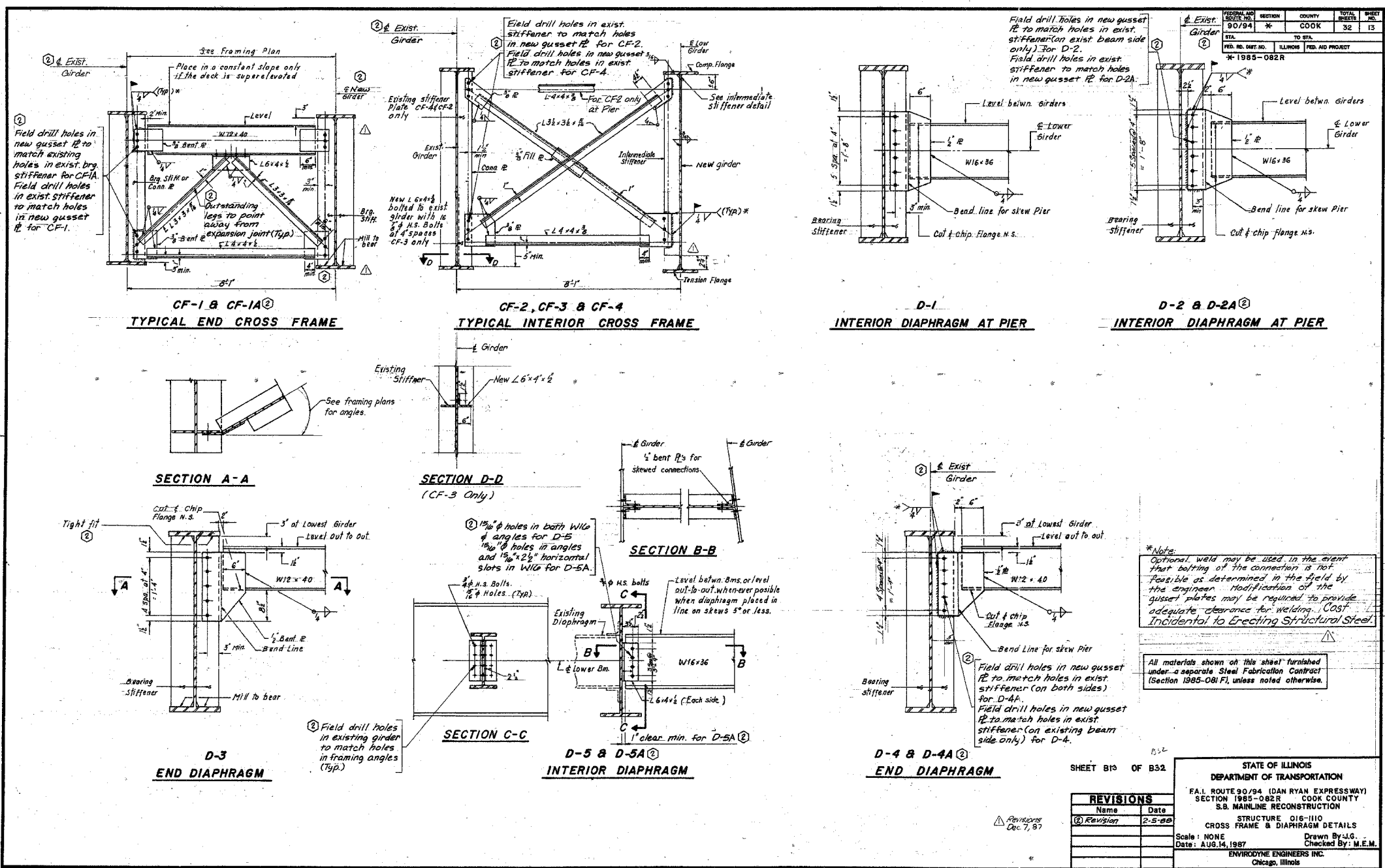
REVISIONS	NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 SB DAN RYAN ELEVATED BRIDGE
 REPAIR FROM 15TH TO 28TH STREETS
 EXISTING PLAN INFORMATION
 SN 016-1110
 SCALE: NTS
 DATE: 5/25/2006
 DRAWN BY: MTR
 CHECKED BY: BLU

4/5667 PM 5/23/2006

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	2003-0291	COOK	344	329
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

62581



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ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
SB DAN RYAN ELEVATED BRIDGE
REPAIR FROM 15TH TO 28TH STREETS
EXISTING PLAN INFORMATION
SN 016-1110

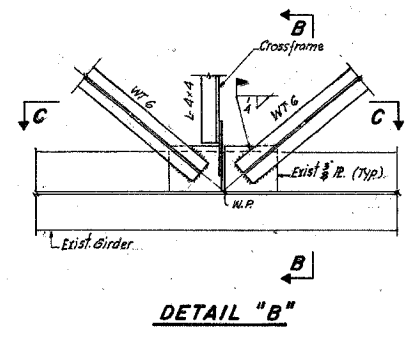
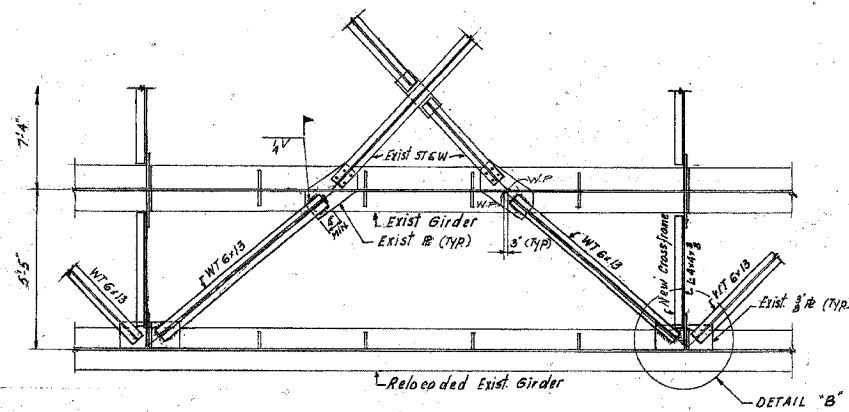
SCALE: NTS
DATE: 5/25/2006

DRAWN BY: MTR
CHECKED BY: BLU

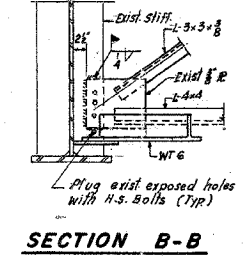
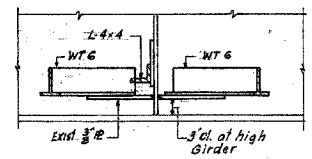
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F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	2003-0291	COOK	344	330
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
62581				

FEDERAL AID ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	*	COOK	32	14
STA.		TO STA.		
FED. RD. DIST. NO.		ILLINOIS FED. AID PROJECT		
*1985-082R				

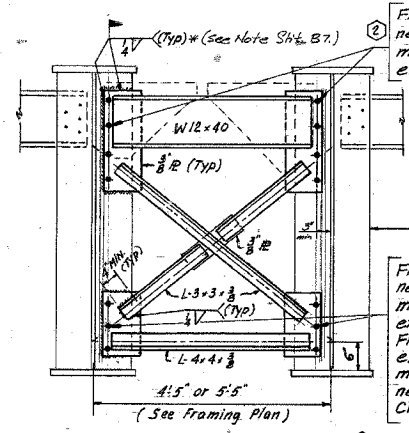


DETAIL "A"

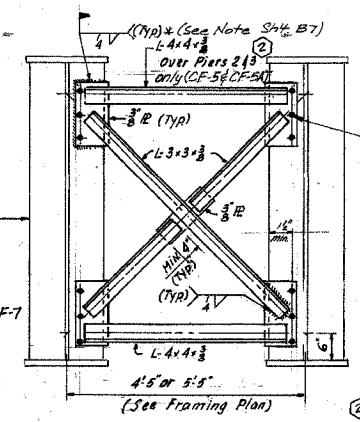


SECTION C-C

SECTION B-B

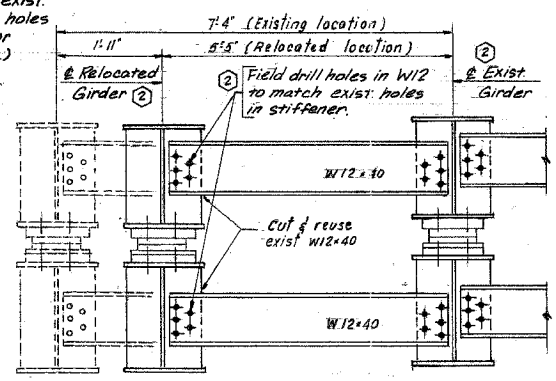


TYPICAL END CROSS FRAME



TYPICAL INTERIOR CROSS FRAME

Field drill holes in new gusset plate to match holes in exist. stiffeners for CF-5 & CF-6 (Typ).
Field drill holes in exist. stiffener to match holes in new gusset plate for CF-5A & CF-6A (Typ).



CF-8

All materials shown on this sheet furnished under a separate Steel Fabrication Contract (Section 1985-081 F), unless noted otherwise.

SHEET B14 OF B32

REVISIONS	
Name	Date
②	2-5-88

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.I. ROUTE 90/94 (DAN RYAN EXPRESSWAY)
SECTION 1985-082R COOK COUNTY
S.B. MAINLINE RECONSTRUCTION
STRUCTURE 016-1110
CROSS FRAME & BTML AT BRACING
Scale: NONE
Date: AUG. 14, 1987
Drawn By: J.G.
Checked By: M.E.M.
ENVIRODYNE ENGINEERS INC.
Chicago, Illinois

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
SB DAN RYAN ELEVATED BRIDGE
REPAIR FROM 15TH TO 28TH STREETS
EXISTING PLAN INFORMATION
SN 016-1110

SCALE: NTS
DATE: 5/25/2006
DRAWN BY: MTR
CHECKED BY: BLU

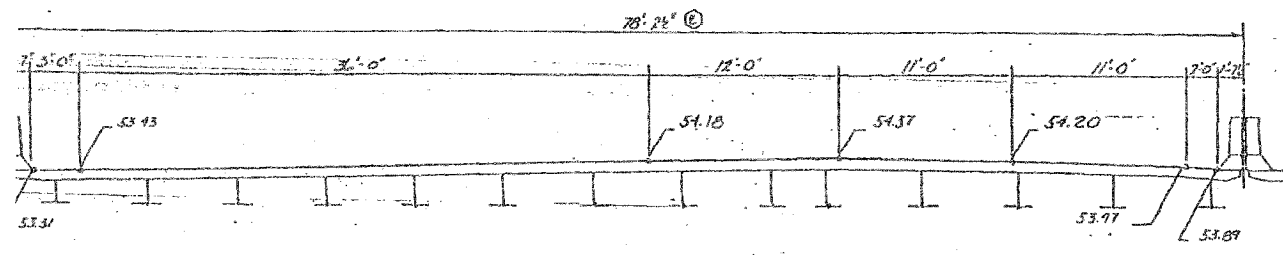
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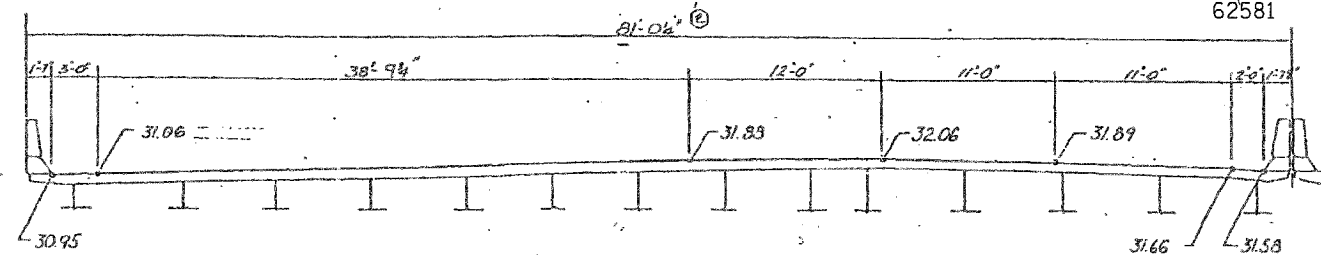
1985-082R BRIDGE SHEET 14 OF 32

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	2003-0291	COOK	344	331
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

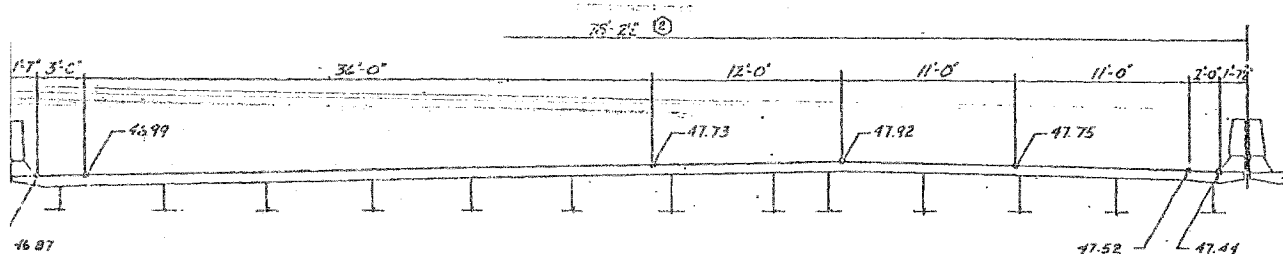
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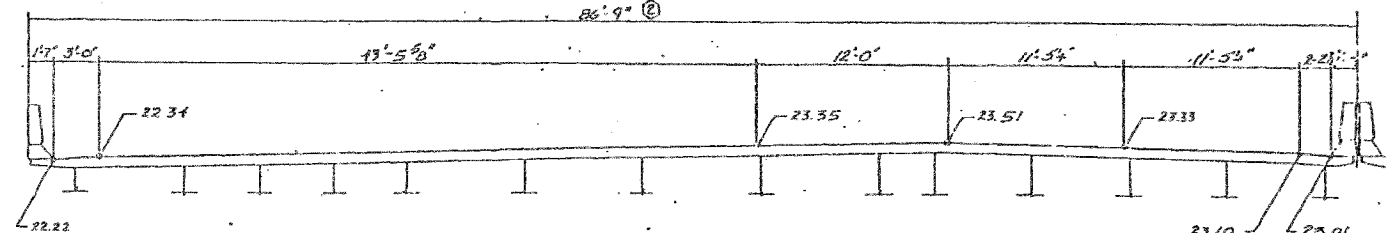
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4 in. NEOPRENE



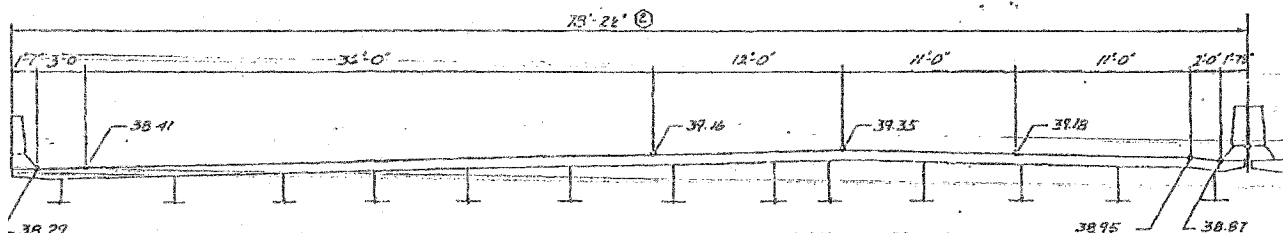
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4 in. NEOPRENE



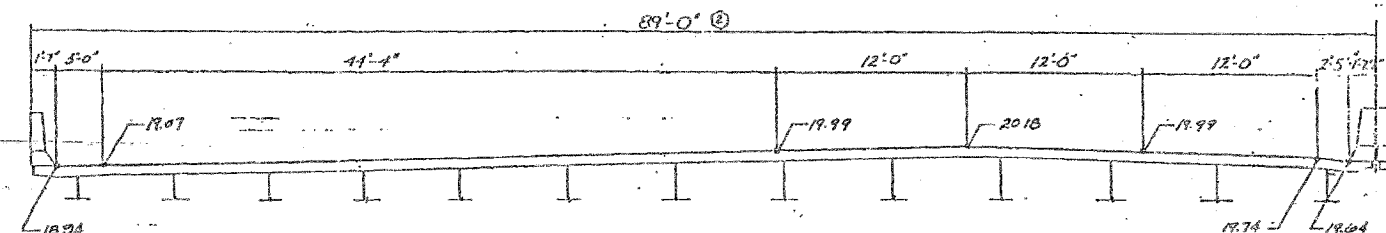
EXPANSION JOINT AT PIER No. 11
4 in. NEOPRENE



② EXPANSION JOINT AT PIER No. 23
2 1/2 in. NEOPRENE



EXPANSION JOINT AT PIER No. 15
4 in. NEOPRENE



② EXPANSION JOINT AT NORTH ABUTMENT
2 1/2 in. PREFORMED JOINT SEAL

SHEET A.51 OF A.60

REVISIONS	
Name	Date
② Elevation	2-5-88

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.I. ROUTE 90/94 (DAN RYAN EXPRESSWAY)
SECTION 1985 - COOK COUNTY
S.B. MAINLINE RECONSTRUCTION
STRUCTURE 016-0137
TRANSVERSE DECK JOINT ELEVATIONS
Scale: NONE
Date: AUG 14, 1987
Drawn By: A.V.
Checked By: MEM
ENVIRODYNE ENGINEERS INC.
Chicago, Illinois

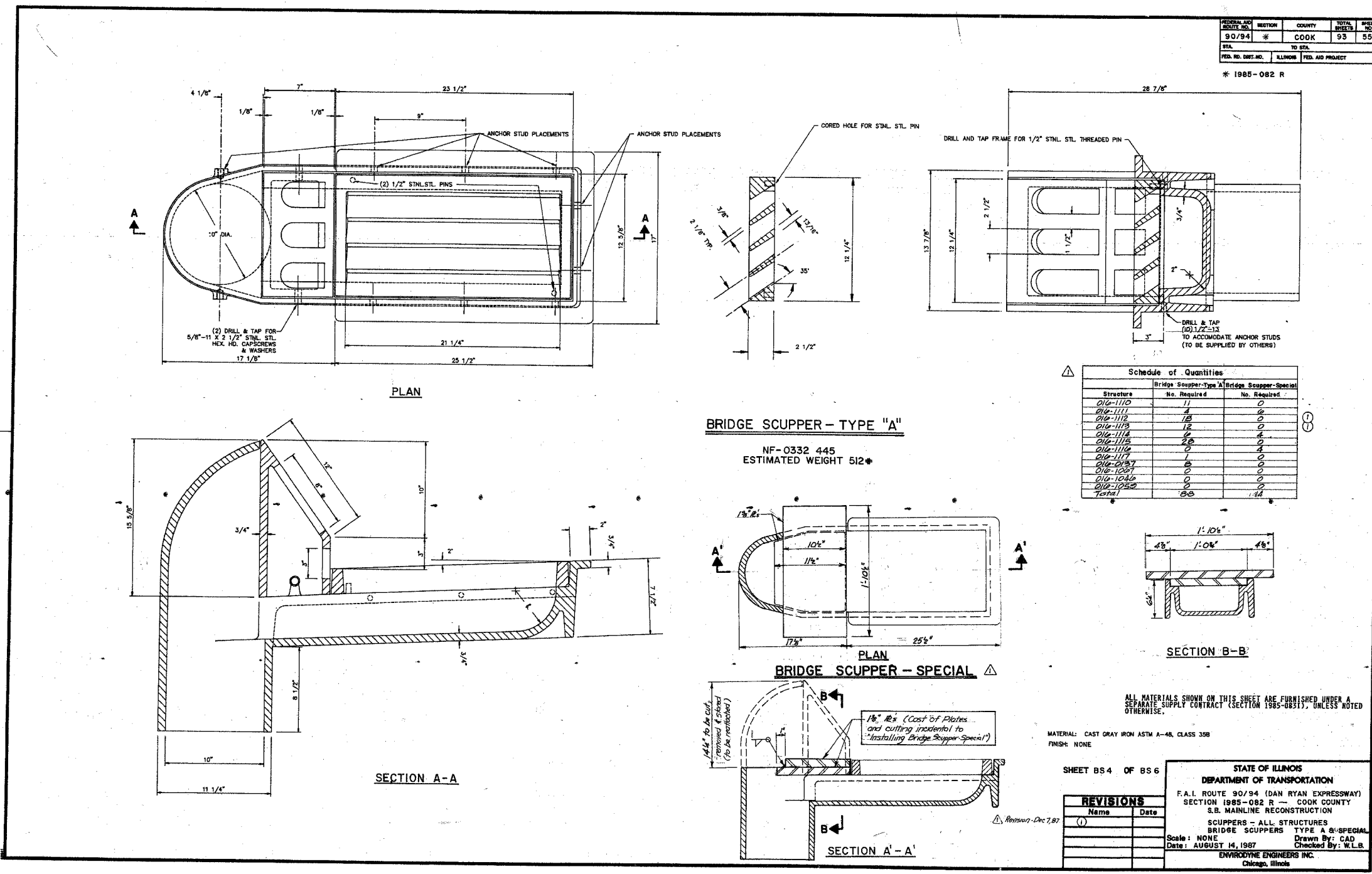
REVISIONS	NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
SB DAN RYAN ELEVATED BRIDGE
REPAIR FROM 15TH TO 28TH STREETS
EXISTING PLAN INFORMATION
SN 016-0137
SCALE: NTS
DATE: 5/25/2006
DRAWN BY: MTR
CHECKED BY: BLU

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FOR INFORMATION ONLY

REVISIONS	NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
SB DAN RYAN ELEVATED BRIDGE
REPAIR FROM 15TH TO 28TH STREETS
EXISTING PLAN INFORMATION

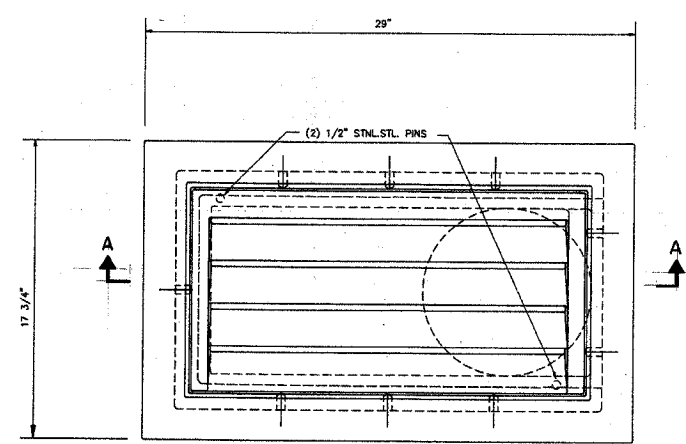
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DATE: 5/25/2006

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CHECKED BY: BLU

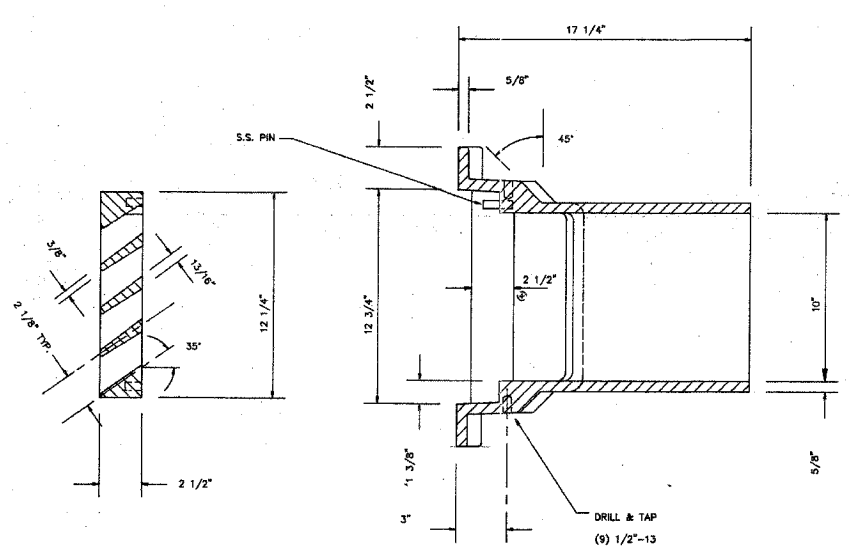
45393 PH 5/23/2006

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	2003-0291	COOK	344	333
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
62581				

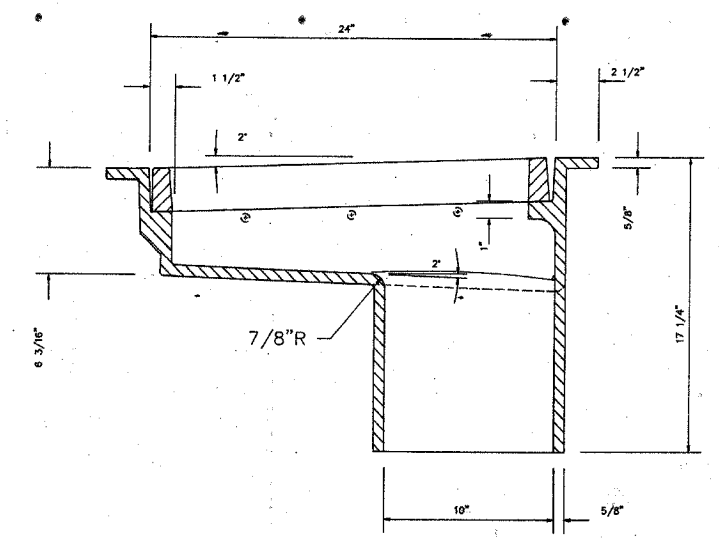
FEDERAL AID PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2	COOK	93	56
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
* 1985-082 R				



PLAN



BRIDGE SCUPPER - TYPE "B"
NF-0332 435
ESTIMATED WEIGHT 235*



SECTION A-A

STRUCTURE	No. REQUIRED
016-1110	-
016-1111	3
016-1112	-
016-1113	11
016-1114	-
016-1115	11
016-1116	8
016-1117	16
016-1037	3
016-1067	-
016-1046	5
016-1059	1
TOTAL	58

MATERIAL: CAST GRAY IRON ASTM A-48, CLASS 35B
FINISH: NO PAINT

SHEET BS 5 OF BS 6

Name	Date
(1)	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.I. ROUTE 90/94 (DAN RYAN EXPRESSWAY)
SECTION 1985-082 R COOK COUNTY
S.B. MAINLINE RECONSTRUCTION
SCUPPERS - ALL STRUCTURES
BRIDGE SCUPPER - TYPE "B"
Scale: NONE
Date: AUGUST 14, 1987
Drawn By: CAD
Checked By: W.L.B.
ENVIRODYNE ENGINEERS INC.
Chicago, Illinois

ALL MATERIALS SHOWN ON THIS SHEET ARE FURNISHED UNDER A SEPARATE SUPPLY CONTRACT (SECTION 1963-0851), UNLESS NOTED OTHERWISE.

Revision 12-7-87

FOR INFORMATION ONLY

REVISIONS	NAME	DATE

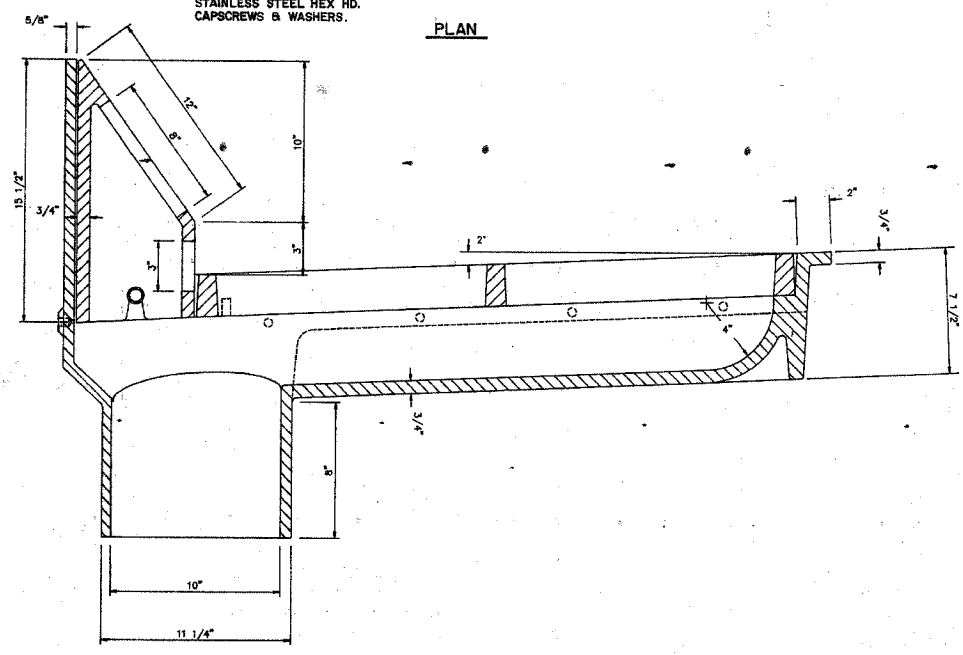
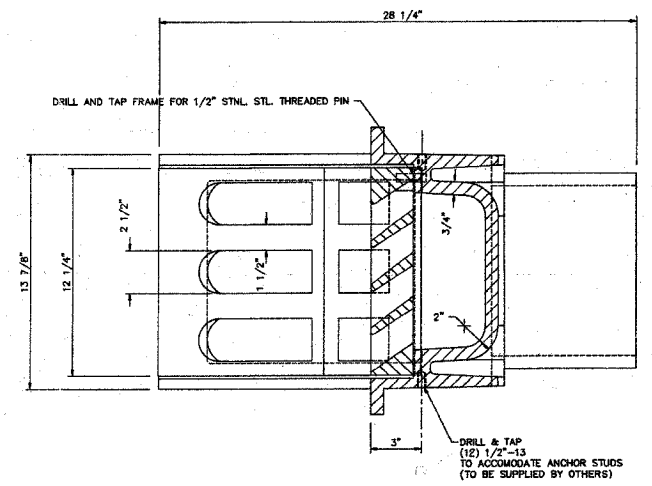
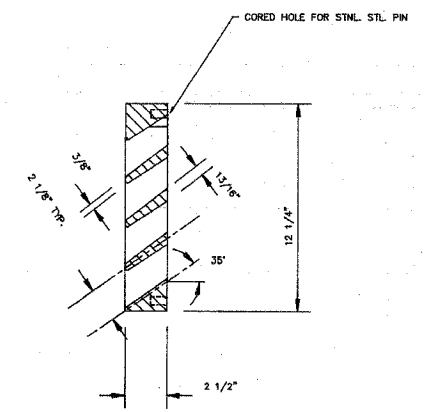
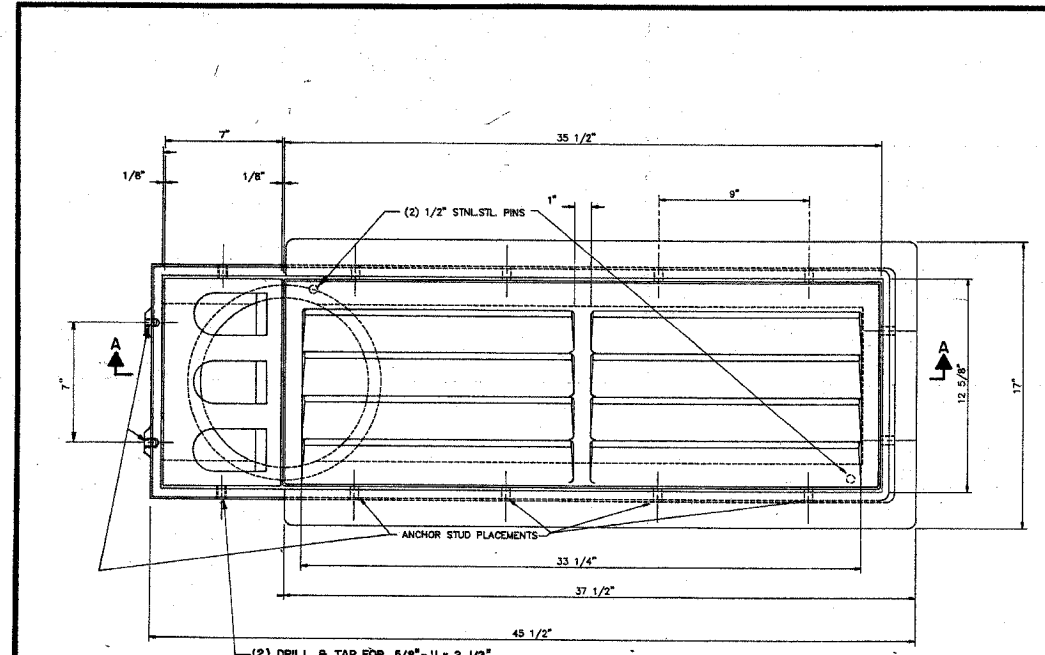
ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
SB DAN RYAN ELEVATED BRIDGE
REPAIR FROM 15TH TO 28TH STREETS
EXISTING PLAN INFORMATION
SCALE: NTS
DATE: 5/25/2006
DRAWN BY: MTR
CHECKED BY: BLU

BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
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1985082R BRIDGE SCUPPERS SHEETS 680-21.EP.DIST.Adm 5/23/2006 5:00:00 PM

FEDERAL AID ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	*	COOK	93	57
STA.		TO STA.		
FED. RD. DIST. NO.		ILLINOIS FED. AID PROJECT		

* 1985 - 082 R



BRIDGE SCUPPER - TYPE "C"
 NF-0332 440
 ESTIMATED WEIGHT 623*

STRUCTURE	No. REQUIRED
O16-1110	8
O16-1111	9
O16-1112	23
O16-1113	5
O16-1114	5
O16-1115	5
O16-1116	8
O16-1117	14
O16-0137	10
O16-1067	15
O16-1046	—
O16-1059	5
TOTAL	102

ALL MATERIALS SHOWN ON THIS SHEET ARE FURNISHED UNDER A SEPARATE SUPPLY CONTRACT (SECTION 1985-0831), UNLESS NOTED OTHERWISE.

MATERIAL: CAST GRAY IRON ASTM A-48, CLASS 35B
 FINISH: NONE

SHEET BS 6 OF BS 6

Name	Date
(1)	

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 F.A.I. ROUTE 90/94 (DAN RYAN EXPRESSWAY)
 SECTION 1985-082 R - COOK COUNTY
 S.B. MAINLINE RECONSTRUCTION
 SCUPPERS - ALL STRUCTURES
 BRIDGE SCUPPER TYPE C
 Scale: NONE
 Date: AUGUST 14, 1987
 Drawn By: CAD
 Checked By: W.L.B.
 ENVIRODYNE ENGINEERS INC.
 Chicago, Illinois

Rev. 12-7-87

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 CONSULTING ENGINEERS
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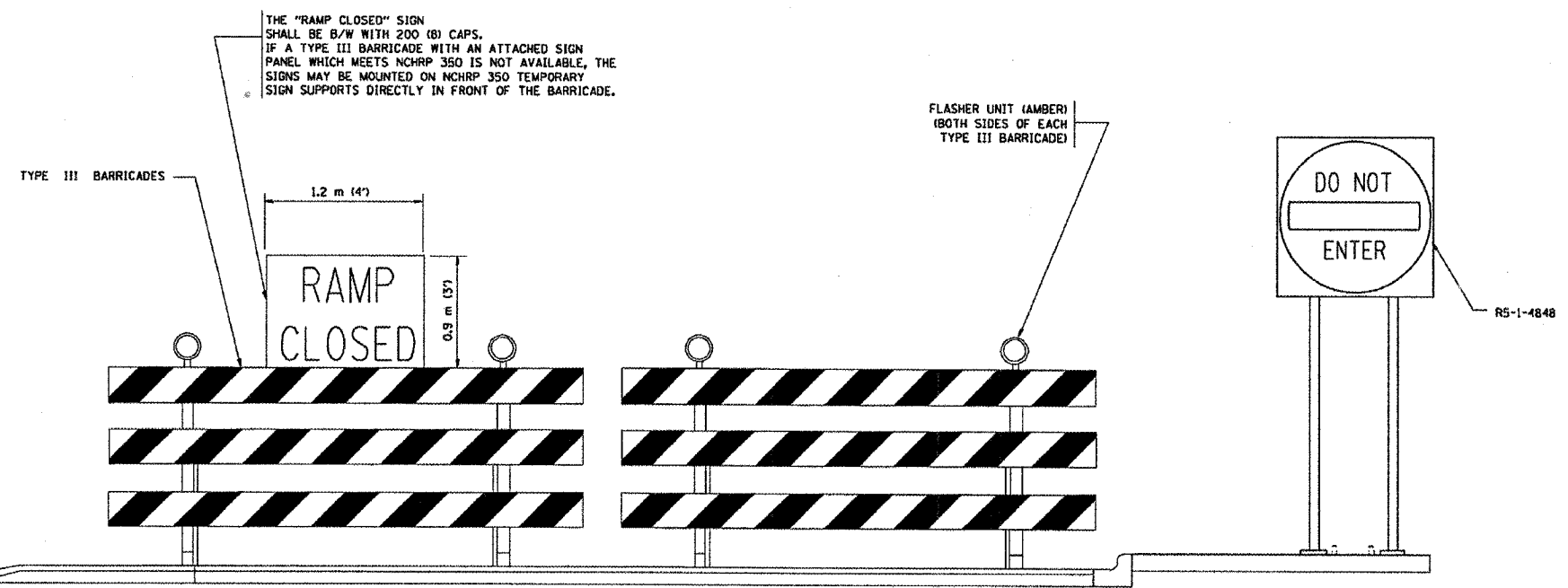
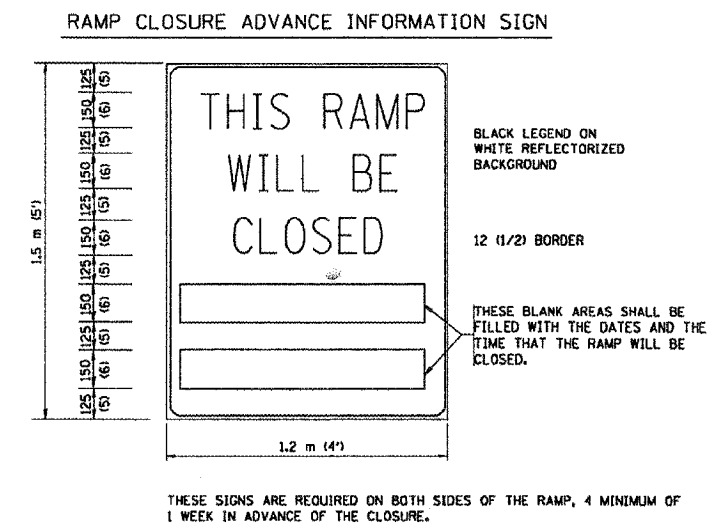
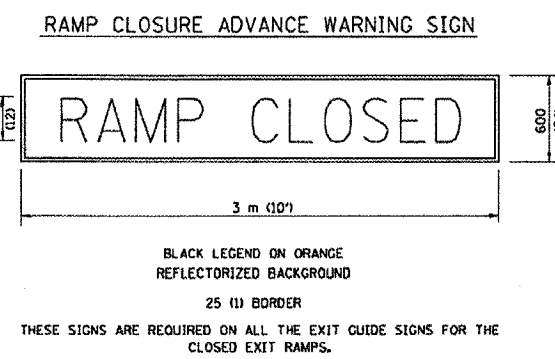
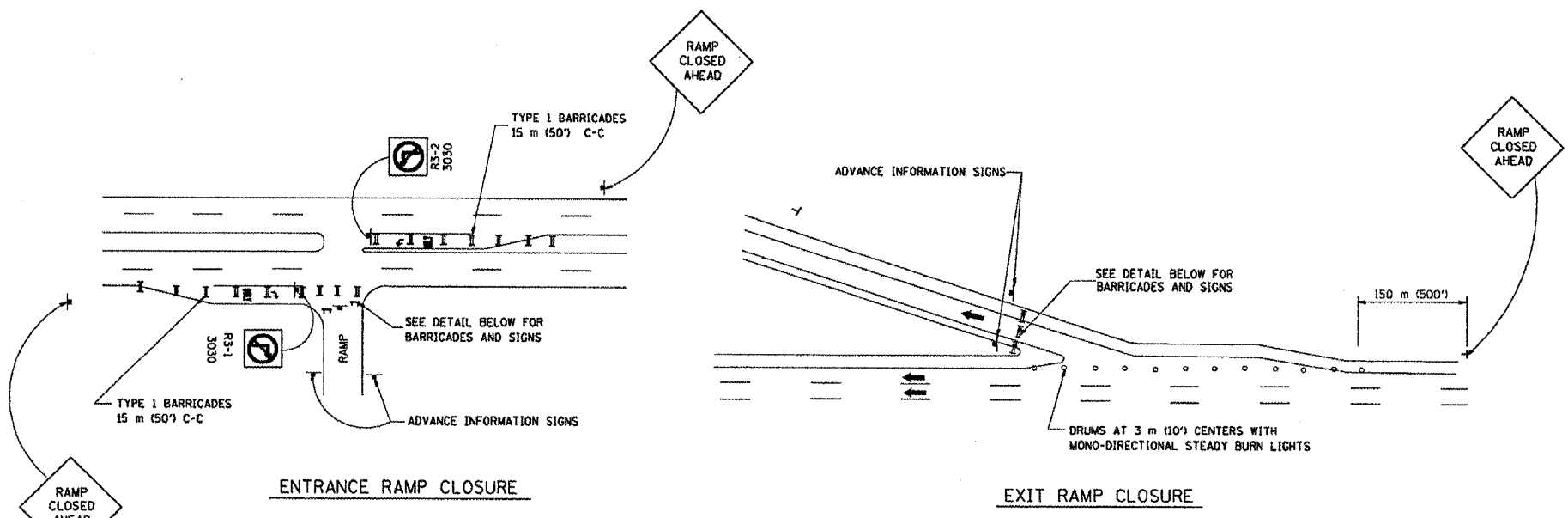
REVISIONS	NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 SB DAN RYAN ELEVATED BRIDGE
 REPAIR FROM 15TH TO 28TH STREETS
 EXISTING PLAN INFORMATION

SCALE: NTS
 DATE: 5/25/2006
 DRAWN BY: MTR
 CHECKED BY: BLU

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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			344	339
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



- NOTES:
- CONES MAY BE SUBSTITUTED FOR TYPE I AND TYPE II BARRICADES DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28" IN HEIGHT.
 - STEADY BURN LIGHTS WILL NOT BE REQUIRED FOR DAY OPERATIONS.
 - THE RAMP CLOSURE ADVANCE INFORMATION SIGNS SHALL BE ERECTED IF THE CLOSURE TIME EXCEEDS TWENTY-FOUR (24) HOURS.
 - ADDITIONAL ADVANCE WARNING SIGNS ON EXIT GUIDE SIGNING WILL BE REQUIRED FOR EXIT RAMP CLOSURES THAT EXCEED TWENTY FOUR (24) HOURS IN LENGTH.

- GENERAL NOTES:
- CONES MAY BE SUBSTITUTED FOR DRUMS OR TYPE II BARRICADES DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 700 (28) HIGH.
 - STEADY BURN LIGHTS WILL NOT BE REQUIRED FOR DAY OPERATIONS.
 - A FLAGGER SHALL BE POSITIONED AT EACH CLOSED RAMP THAT IS OPEN TO CONSTRUCTION VEHICLES.
 - FOR DAYTIME RAMP CLOSURES, LASTING 6 HOURS OR LESS, THE CONTRACTOR MAY ELIMINATE THE ADVANCE WARNING SIGNS ON THE EXIT GUIDE SIGNS.
 - ALL ROUTE MARKERS AND TRAILBLAZER ASSEMBLIES WHICH DIRECT MOTORISTS TO A CLOSED ENTRANCE RAMP SHALL BE COVERED.
 - THE SIGNING AND BARRICADING WHICH IS REQUIRED BY THIS DETAIL SHALL BE CONSIDERED INCIDENTAL TO TRAFFIC CONTROL AND PROTECTION.
 - AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL RAMP CLOSURES.

REVISIONS	
NAME	DATE
DWS	2-83
DWS	1/90
DWS	9/94
DWS	12/94
DWS/JAF	12/02
Revise devices to meet NCHRP 350	4/03

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.

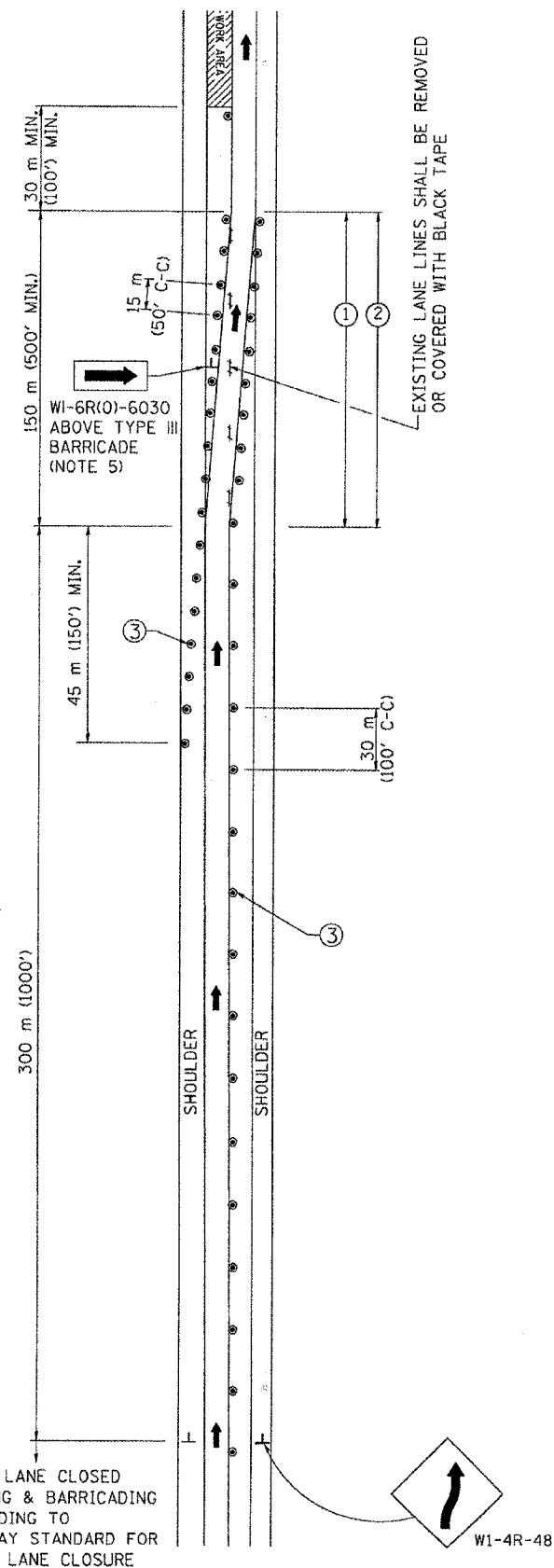
ILLINOIS DEPARTMENT OF TRANSPORTATION

FREEWAY ENTRANCE AND EXIT RAMP CLOSURE DETAILS

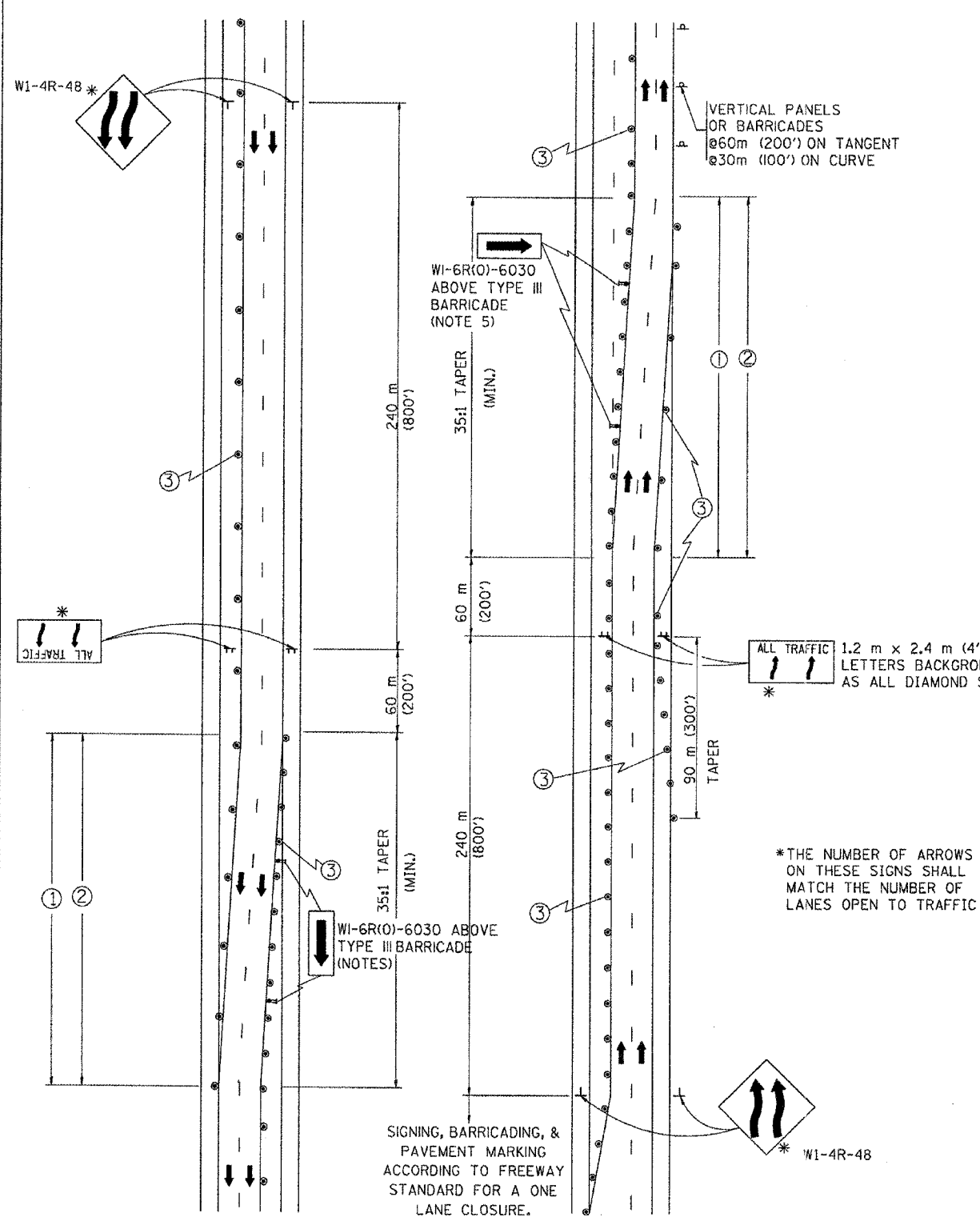
SCALE: NONE
DATE: 05/06/2003

DRAWN BY: TC-8
CHECKED BY: TC-8
REVISION DATE: 04/03/03

SINGLE LANE WEAVE



MULTI-LANE WEAVE



- GENERAL NOTES**
- EXISTING CONFLICTING PAVEMENT MARKING LINES SHALL BE REMOVED OR COVERED WITH BLACK TAPE. PAVEMENT MARKING REMOVAL OR BLACK TAPE SHALL NOT BE REQUIRED FOR LANE CLOSURES UNDER 24 HOURS IN DURATION.
 - CONTINUOUS REFLECTIVE TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND FOR 90 m (300') ALONG SIDE THE WORK AREA WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS. THE LEFT EDGE LINE SHALL BE YELLOW AND THE RIGHT EDGE LINE SHALL BE WHITE. FOR MULTI-LANE WEAVE LANE LINES SHALL BE 3 M-9 M (10'-30') SKIP DASH, WHITE.
 - PLASTIC DRUMS WITH STEADY BURN LIGHTS AT 15 m (50') C-C SPACING IN TAPERS AND 30 m (100') C-C SPACING IN TANGENTS.
 - ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
 - IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 IS NOT AVAILABLE, THE SIGNS MAY BE MOUNTED ON NCHRP 350 TEMPORARY SIGN SUPPORTS DIRECTLY IN FRONT OF THE BARRICADE.

- SYMBOLS**
- ↑ DIRECTION OF TRAFFIC
 - ▨ WORK AREA
 - ┆ SIGN ON PORTABLE OR PERMANENT SUPPORT
 - ⊙ DRUM WITH MONO-DIRECTIONAL STEADY BURNING LIGHT

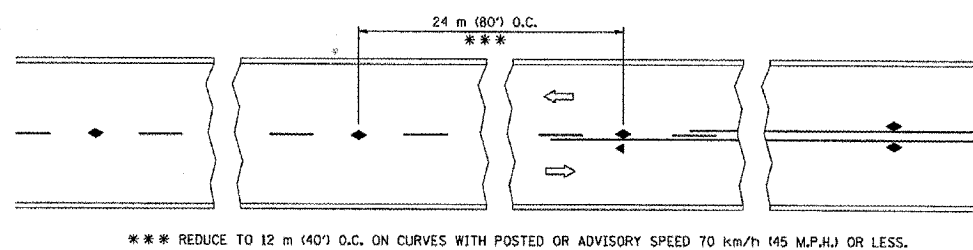
ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN

ILLINOIS DEPARTMENT OF TRANSPORTATION
TRAFFIC CONTROL DETAILS
 FOR FREEWAY
 SINGLE & MULTI-LANE WEAVE

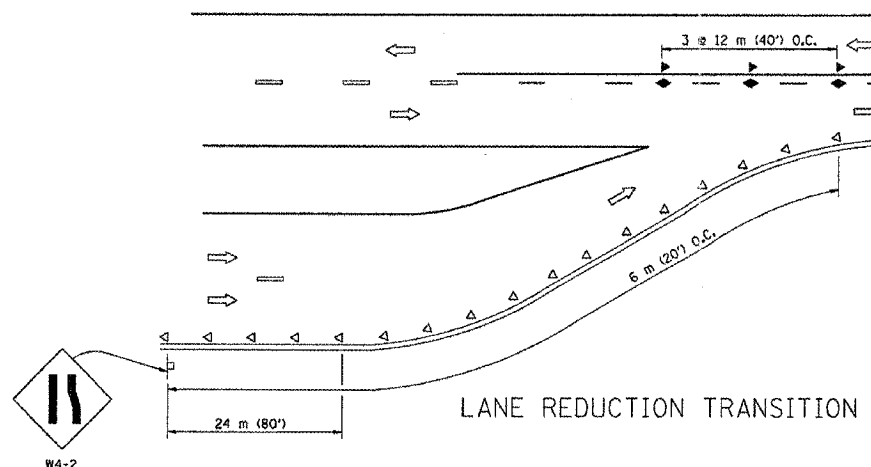
REVISIONS	
NAME	DATE
DWS	2/87
DWS	1/90
DWS	12/27/94
DWS	11/96
JAF	4/03

SCALE: NONE
 DATE: 05/12/2003
 DRAWN BY R.H.
 CHECKED BY TC-9

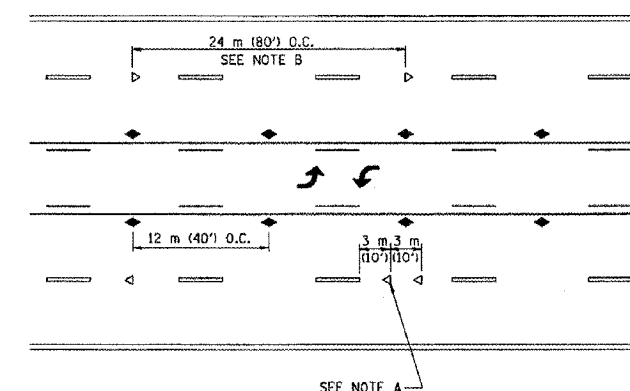
F.A. DIST. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			214	236
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



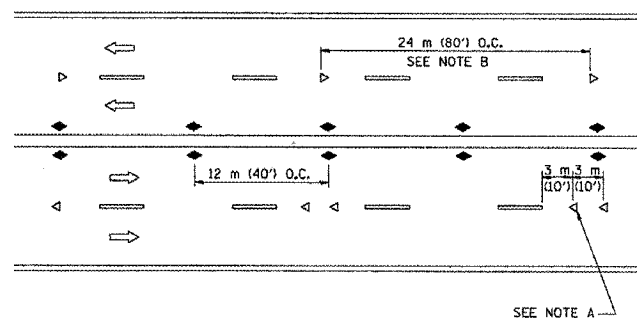
TWO-LANE/TWO-WAY



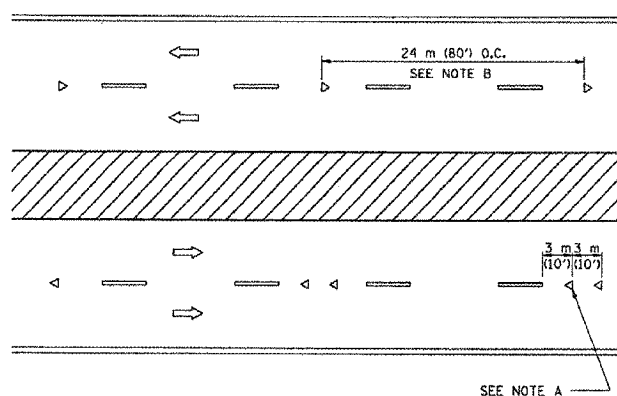
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 50 TO 75 (2 TO 3) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 150 m (500') IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

SYMBOLS

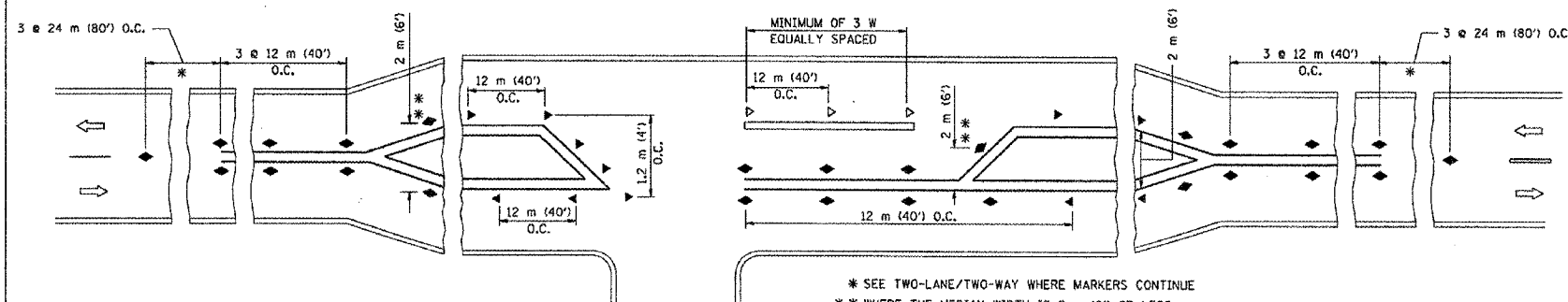
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 12 m (40') O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 20 km/h (10 M.P.H.) LOWER THAN POSTED SPEEDS.

DESIGN NOTES

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHOULD BE INCLUDED IN THE PLANS.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.



LEFT TURN

- * SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE
- ** WHERE THE MEDIAN WIDTH IS 2 m (6') OR LESS USE TWO-WAY MARKERS.

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

ILLINOIS DEPARTMENT OF TRANSPORTATION

TYPICAL APPLICATIONS
RAISED REFLECTIVE PAVEMENT MARKERS
(SNOW-PLOW RESISTANT)

REVISIONS	
NAME	DATE
T. RAMMACHER	09-19-94
T. RAMMACHER	03-12-99
T. RAMMACHER	01-06-00

SCALE: NONE
DATE: 10/18/2002

DRAWN BY CADD

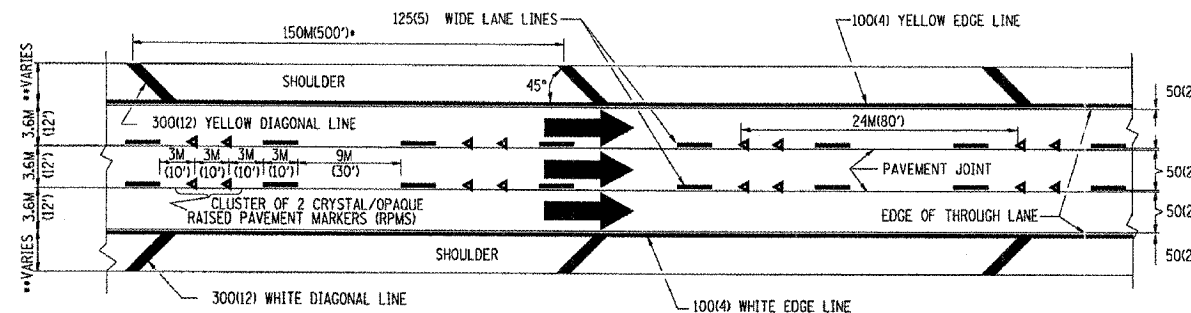
CHECKED BY

TC-11

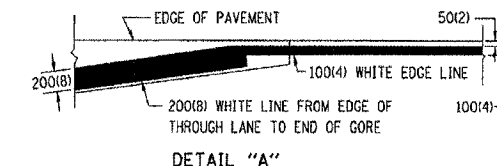
REVISION DATE: 01/06/00

F. A. DIST.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			344	333
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ALPHAS	FED. AID PROJECT	

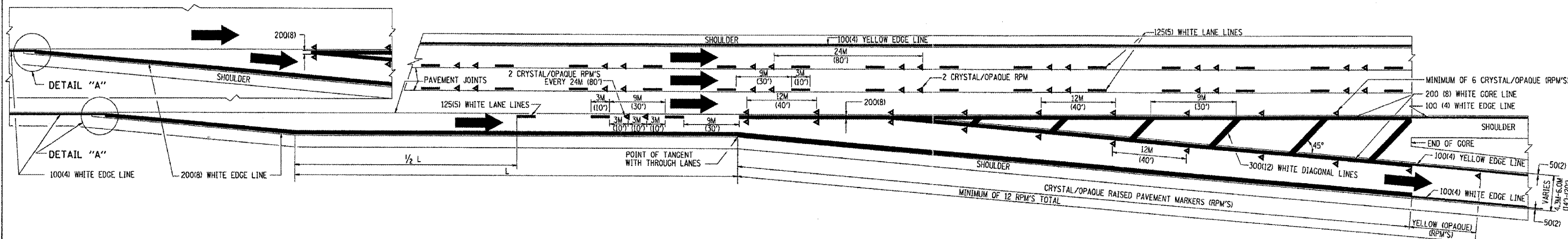
- THE DIAGONAL LINES SHALL BE SPACED AT 12M (40') C-C ACROSS ALL STRUCTURES WHICH ARE 150M (500') OR LESS IN LENGTH
- THE DIAGONAL LINES ARE NOT REQUIRED ON SHOULDERS WHICH ARE 1.8M (6') OR LESS IN WIDTH



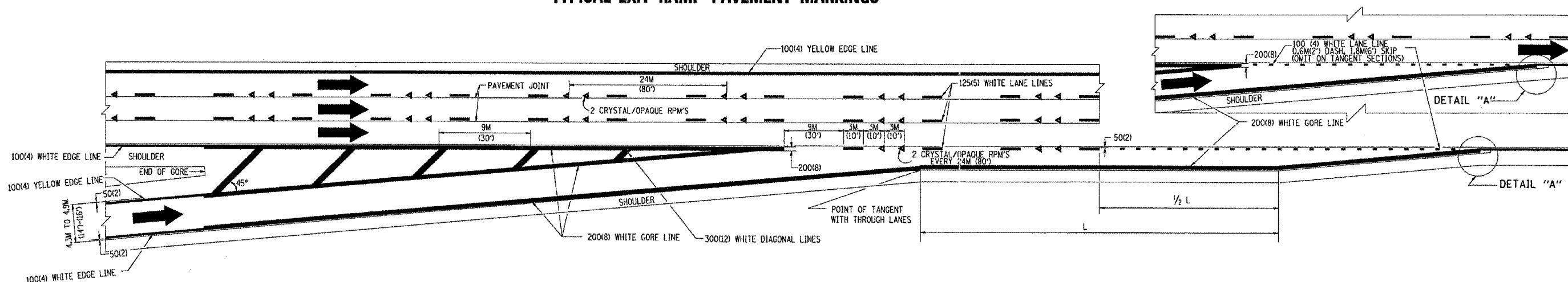
- NOTES:
1. THERMO PLASTIC PAVEMENT MARKING LINE SHALL BE USED FOR THE EDGE LINES, GORE LINES, AND DIAGONAL LINES ON BITUMINOUS PAVEMENT ONLY.
 2. PREFORMED PLASTIC PAVEMENT MARKING LINE SHALL BE USED FOR ALL LANE LINES
 3. PREFORMED PLASTIC PAVEMENT MARKING LINE SHALL BE USED ON PCC PAVEMENT.



TYPICAL EDGE LINES & LANE LINES



TYPICAL EXIT RAMP PAVEMENT MARKINGS



TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS

REVISIONS	
NAME	DATE
DWS	1/90
DWS	5/91
AH	3/96
DWS	7/96

ILLINOIS DEPARTMENT OF TRANSPORTATION

**MULTI-LANE FREEWAY
PAVEMENT MARKING
DETAILS**

SCALE: NONE
DATE: 10/18/2002

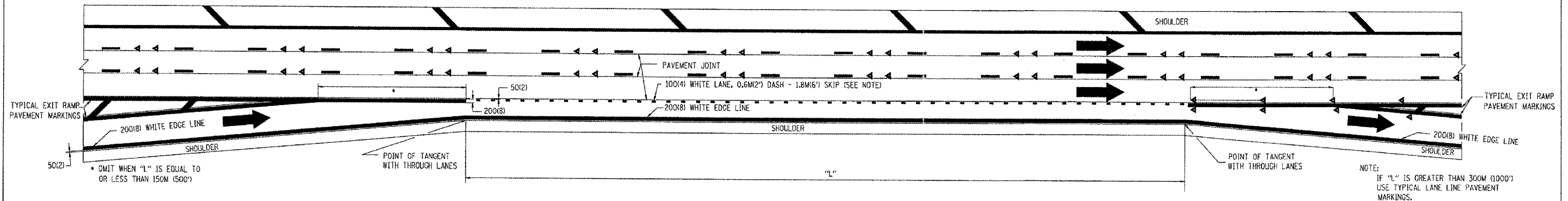
DRAWN BY C.A.D.D.

CHECKED BY

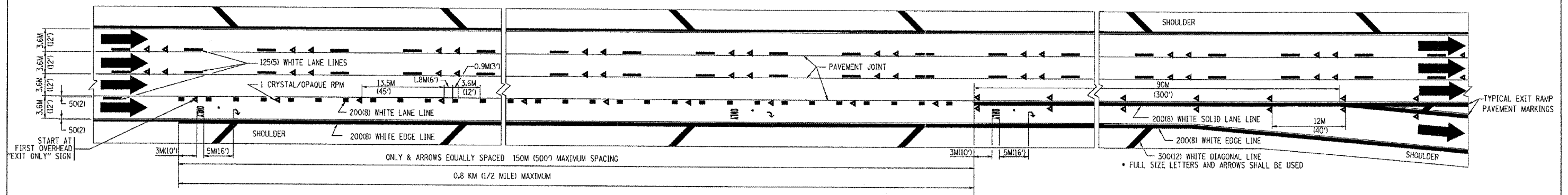
TC12 SHEET 1 OF 2

REVISION DATE: 01/01/96

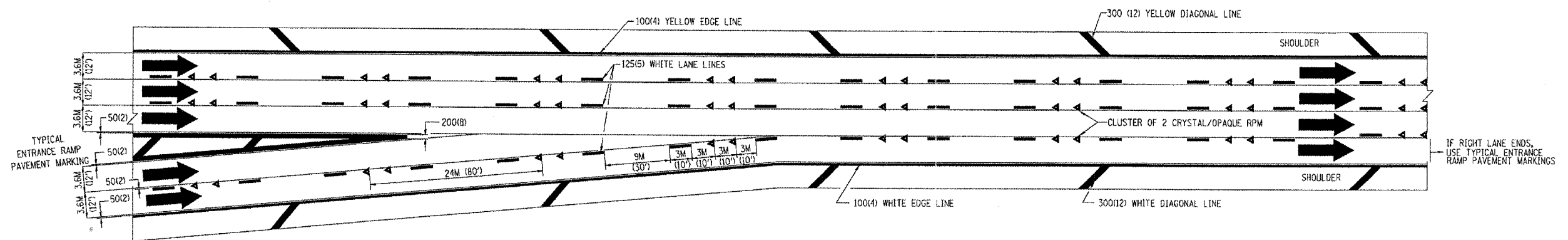
F. A. RILEY	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			344	339
STA.	TO STA.			
FED. ROAD DIST. NO. 1	BLINDS	FED. AID PROJECT		



TYPICAL ENTRANCE/EXIT RAMP COMBINATION PAVEMENT MARKINGS



TYPICAL EXIT ONLY LANE PAVEMENT MARKINGS



TYPICAL TWO LANE ENTRANCE RAMP PAVEMENT MARKINGS

DATE-TIME:
DGN-SPEC:
VHTC/2

REVISIONS	
NAME	DATE
DWS	1/90
DWS	5/91

ILLINOIS DEPARTMENT OF TRANSPORTATION

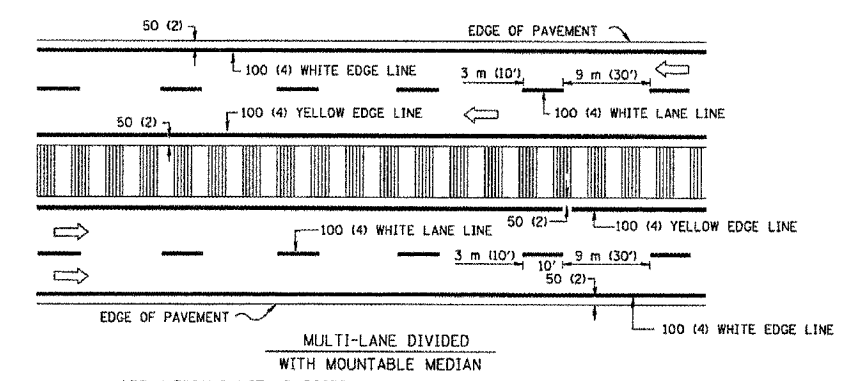
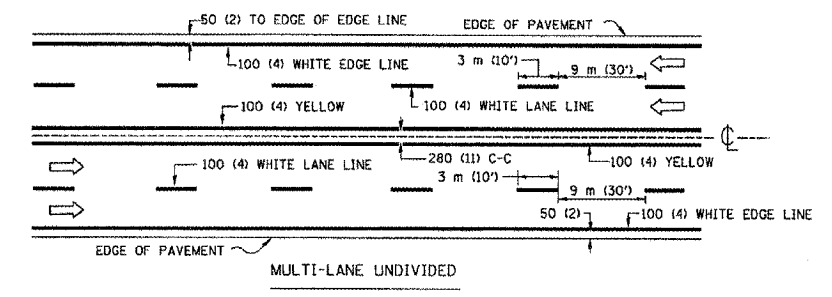
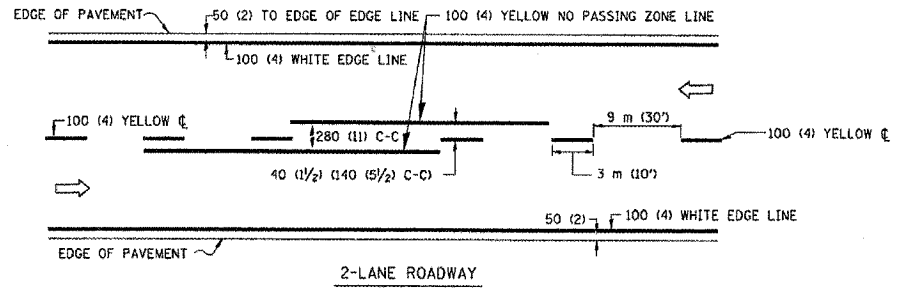
**MULTI-LANE FREEWAY
PAVEMENT MARKING
DETAILS**

SCALE: NONE
DATE: 10/18/2002

DRAWN BY C.A.D.D.
CHECKED BY

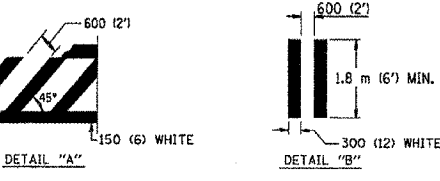
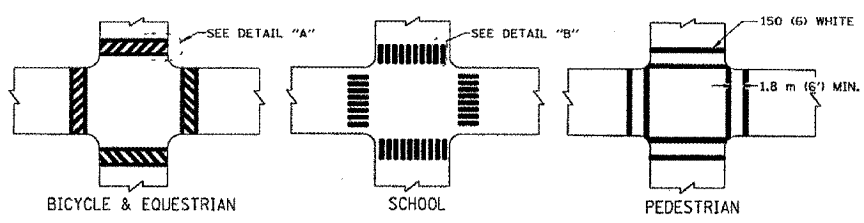
TC12 SHEET 2 OF 2

REVISION DATE: 01/01/96

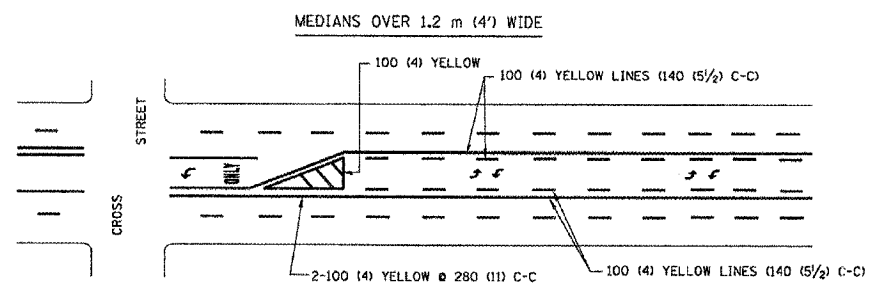
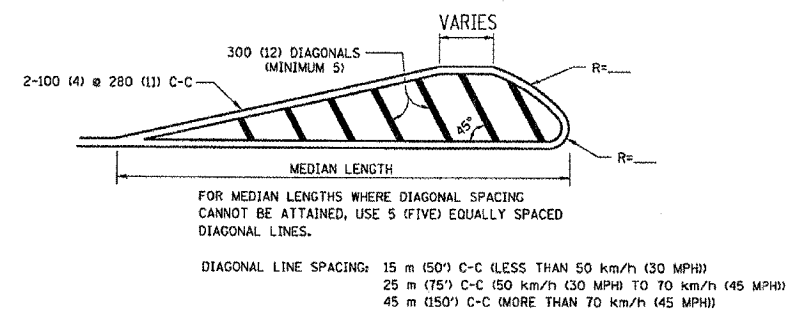
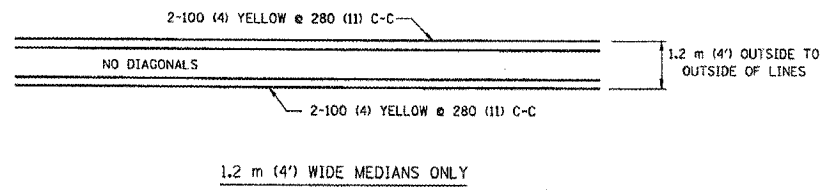


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

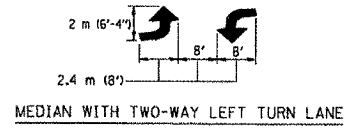
TYPICAL LANE AND EDGE LINE MARKING



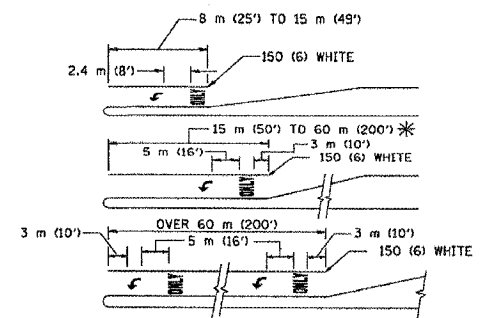
TYPICAL CROSSWALK MARKING



A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 60 m (200') TO 90 m (300') INTERVALS.



TYPICAL PAINTED MEDIAN MARKING

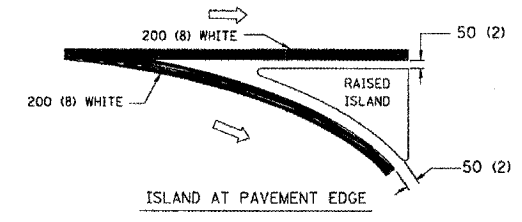
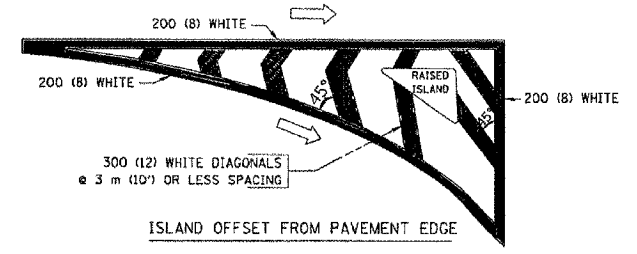


FULL SIZE LETTERS 2.4 m (8') AND ARROWS SHALL BE USED. AREA = 1.5 m² (15.6 SQ. FT.) ONLY AREA = 1.9 m² (20.8 SQ. FT.)

* TURN LANES IN EXCESS OF 120 m (400') IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	100 (4)	SKIP-DASH	YELLOW	3 m (10') LINE WITH 9 m (30') SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 100 (4)	SOLID	YELLOW	280 (11) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	100 (4) 2 @ 100 (4)	SOLID SOLID	YELLOW YELLOW	140 (5 1/2) C-C FROM SKIP-DASH CENTERLINE 280 (11) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	100 (4) 125 (5) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	3 m (10') LINE WITH 9 m (30') SPACE
DOTTED LINES EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	600 (24) LINE WITH 1.8 m (6') SPACE
EDGE LINES	100 (4)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	150 (6) LINE; FULL SIZE LETTERS & SYMBOLS (2.4 m (8'))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 100 (4) EACH DIRECTION 2.4 m (8') LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	3 m (10') LINE WITH 9 m (30') SPACE FOR SKIP-DASH; 140 (5 1/2) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 150 (6) 300 (12) @ 45° 300 (12) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 1.8 m (6') APART 600 (24) APART 600 (24) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	600 (24)	SOLID	WHITE	PLACE 1.2 m (4') IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT, OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 100 (4) WITH 300 (12) DIAGONALS @ 45° NO DIAGONALS USED FOR 1.2 m (4') WIDE MEDIANS	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	280 (11) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	200 (8) WITH 300 (12) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 4.5 m (15') C-C (LESS THAN 50 km/h (30 MPH)) 6 m (20') C-C (50 km/h (30 MPH) TO 70 km/h (45 MPH)) 9 m (30') C-C (OVER 70 km/h (45 MPH))
RAILROAD CROSSING	600 (24) TRANSVERSE LINES; "RR" IS 1.8 m (6') LETTERS; 400 (16) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=0.33m ² (3.6 SQ. FT.) EACH "X"=5.0 m ² (54.0 SQ. FT.)
SHOULDER DIAGONALS	300 (12) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	15 m (50') C-C (LESS THAN 50 km/h (30 MPH)) 25 m (75') C-C (50 km/h (30 MPH) TO 70 km/h (45 MPH)) 45 m (150') C-C (OVER 70 km/h (45 MPH))

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

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

ILLINOIS DEPARTMENT OF TRANSPORTATION

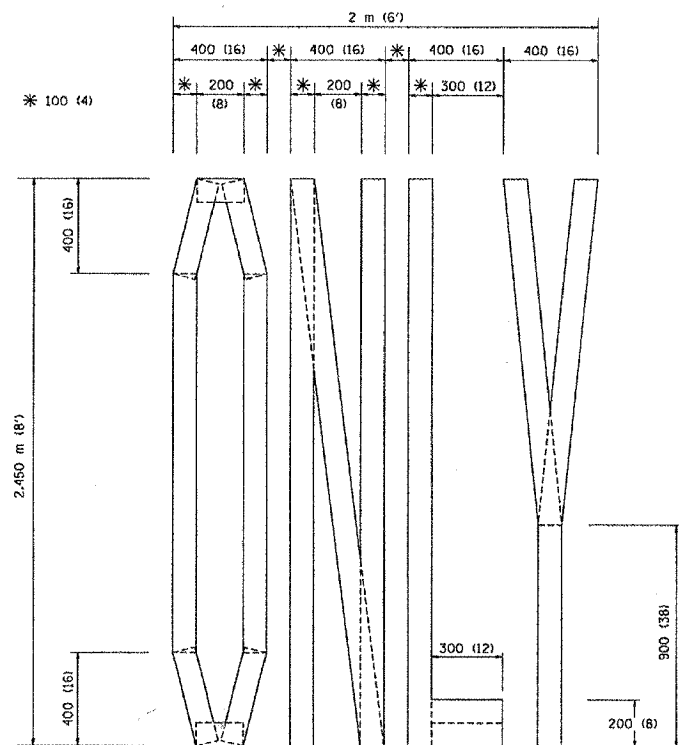
DISTRICT ONE
TYPICAL PAVEMENT MARKINGS

REVISIONS	
NAME	DATE
EVERS	03-19-90
T. RAMMACHER	10-27-94
ALEX HOUSE	10-09-96
ALEX HOUSE	10-17-96
T. RAMMACHER	01-06-00

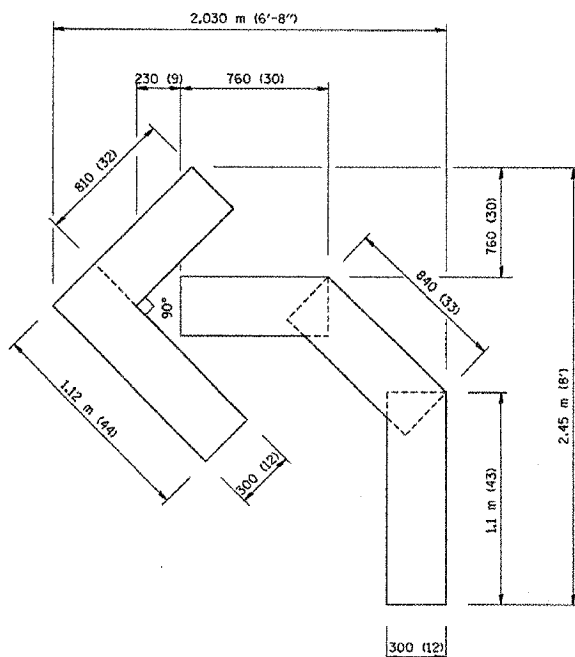
SCALE: NONE
DATE 10/18/2002

DRAWN BY CADD
CHECKED BY TC-13
REVISION DATE: 01/06/00

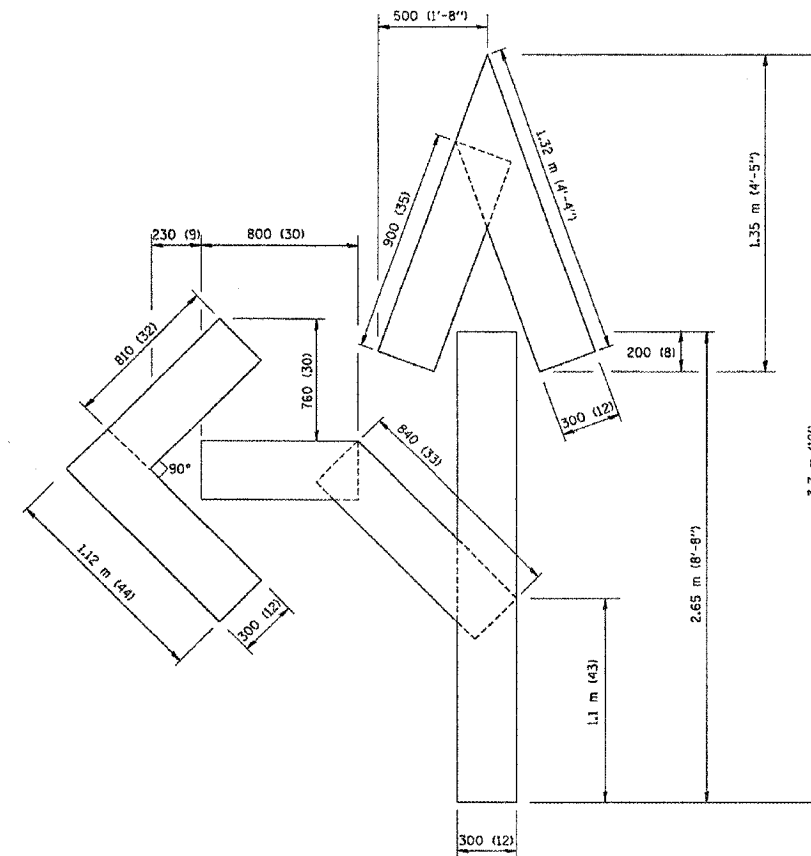
F. A. DIST.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			344	341
STA.		TO STA.		
FED. ROAD DIST. NO.		MILEAGE		FED. AID PROJECT



QUANTITY
 100 (4) LINE = 19.7 m (64.1 ft.)
 1.97 sq. m (21.1 sq. ft.)



QUANTITY
 100 (4) LINE = 13.9 m (45.5 ft.)
 1.39 sq. m (15.2 sq. ft.)



QUANTITY
 100 (4) LINE = 25.3 m (82.5 ft.)
 2.53 sq. m (27.5 sq. ft.)

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

ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING
 LETTERS AND SYMBOLS
 FOR TRAFFIC STAGING

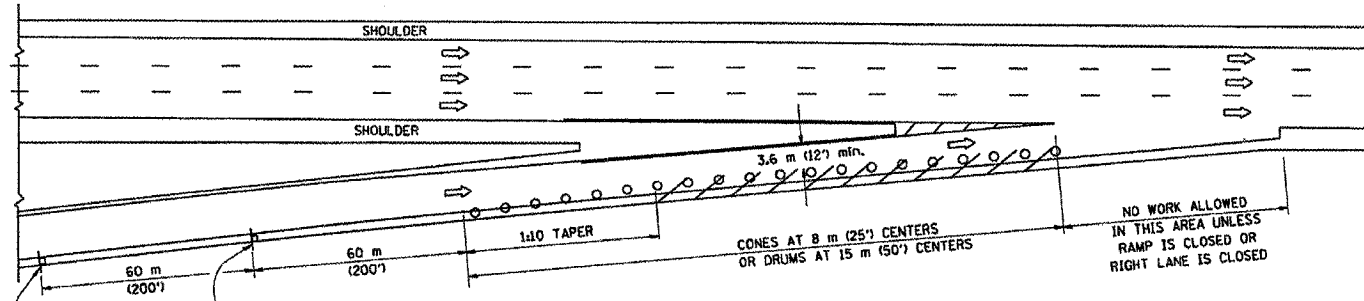
REVISIONS	
NAME	DATE
T. RAMMACHER	09/18/94
J. OBERLE	06/01/96
T. RAMMACHER	06/05/96
T. RAMMACHER	11/04/97
T. RAMMACHER	03/02/98
E. GOMEZ	08/28/00

SCALE: NONE
 DATE: 10/18/2002

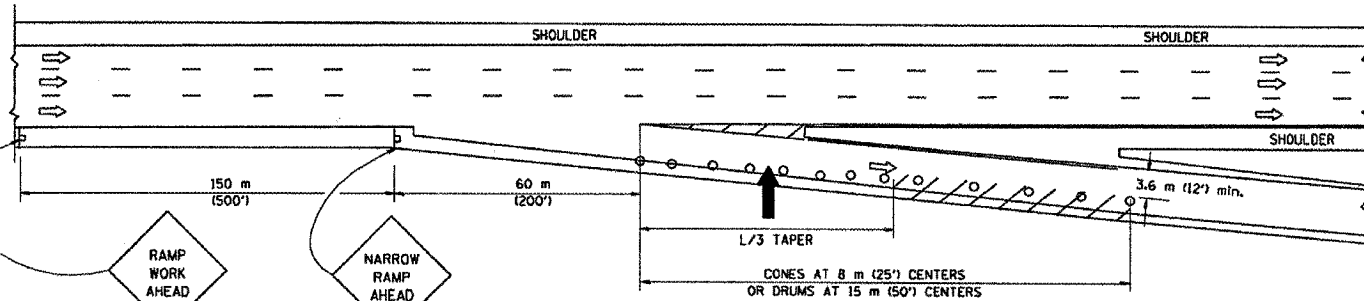
DRAWN BY CADD
 CHECKED BY TC-16

REVISION DATE: 08/28/00

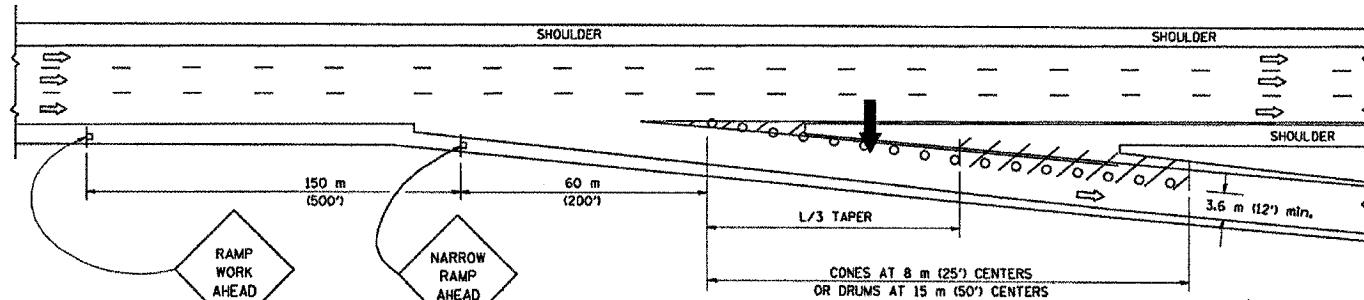
PARTIAL RAMP CLOSURE DETAILS



TYPICAL ENTRANCE RAMP



TYPICAL EXIT RAMP



TYPICAL EXIT RAMP

SYMBOLS

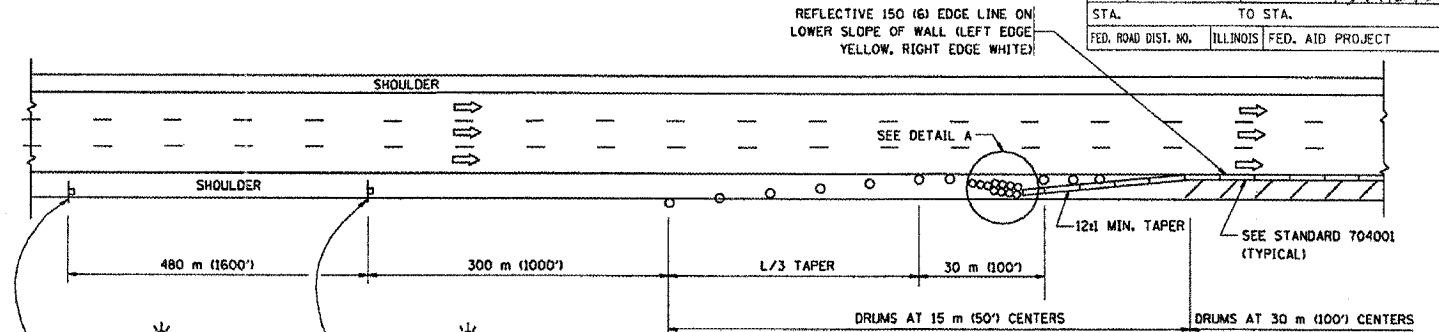
- ARROWBOARD
- WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- DRUM WITH MONO-DIRECTIONAL STEADY BURNING LIGHT
- CONES - 700 (28) IN HEIGHT

GENERAL NOTES

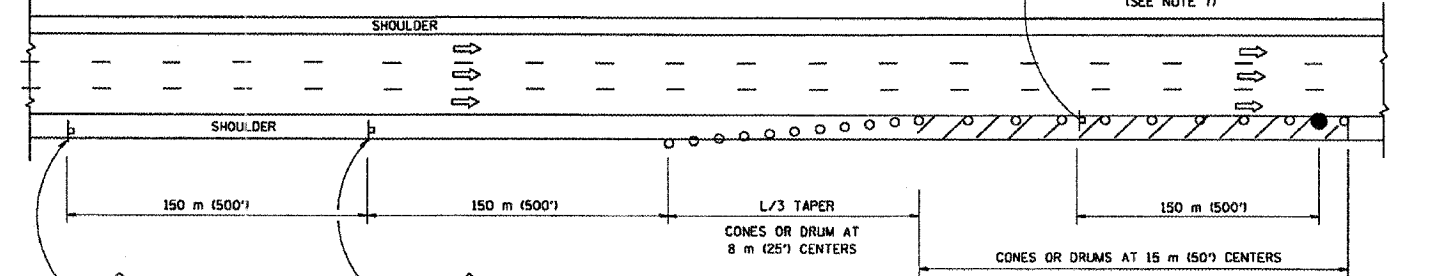
1. THE "L" DISTANCE EQUALS:

SPEED LIMIT	FORMULAS
80 km/h (45 mph) OR GREATER:	METRIC $L=0.65(W+S)$ ENGLISH $L=(W+S)$
	W = WIDTH OF OFFSET IN METERS (FEET)
	S = NORMAL POSTED SPEED KM/H (MPH)
2. PLASTIC DRUMS WITH HIGH PERFORMANCE REFLECTIVE SHEETING AND STEADY BURNING LIGHTS ARE REQUIRED FOR ALL NIGHTTIME CLOSURES.
3. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
4. FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE FIRST TWO SETS OF SIGNS.

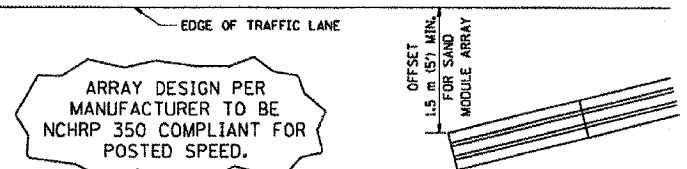
SHOULDER CLOSURE DETAILS



PERMANENT SHOULDER CLOSURE



DAYTIME SHOULDER CLOSURE



DETAIL "A"
IMPACT ATTENUATOR, TEMPORARY
(SEE NOTE 5)

5. THE IMPACT ATTENUATOR, TEMPORARY IS NOT REQUIRED WHEN THE TEMPORARY CONCRETE BARRIER WALL IS OUTSIDE THE CLEAR ZONE OR IS TIED INTO THE EXISTING GUARDRAIL. IF OFFSET IS LESS THAN 5 FEET USE "TRAFFIC BARRIER TERMINAL, TYPE III, TEMPORARY" DEVICE TO MEET NCHRP350 FOR POSTED SPEED.
6. AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL FREEWAY CLOSURES.
7. THE FLAGGER AND FLAGGER SIGN ARE REQUIRED AT THE ABOVE WORK SITES WHEN:
 - a. FOUR OR MORE WORK VEHICLES ENTER THE TRAFFIC LANES IN A ONE HOUR PERIOD.
 - b. THE WORK ACTIVITY REQUIRES FREQUENT ENCROACHMENT INTO THE LANE OPEN TO TRAFFIC.
 THE FLAGGER SHALL BE STATIONED APPROXIMATELY 30 m (100') TO 60 m (200') IN ADVANCE OF THE WORKERS.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			344	342
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.

ILLINOIS DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL DETAILS
FOR FREEWAY
SHOULDER CLOSURES
PARTIAL RAMP CLOSURES

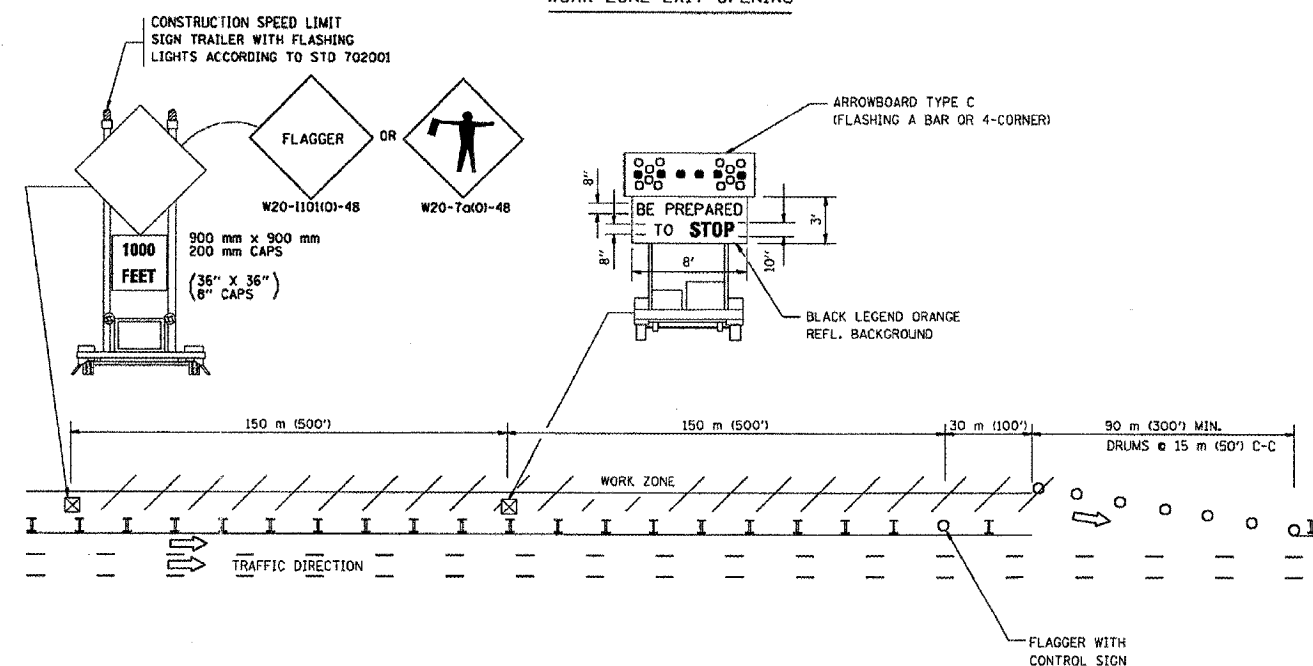
REVISIONS	
NAME	DATE
DWS	11/96
JAF	12/02
NCHRP 350	04/03

SCALE: NONE
DATE: 05/06/2003
DRAWN BY: DWS
DESIGNED BY: DWS
CHECKED BY:
TC-17

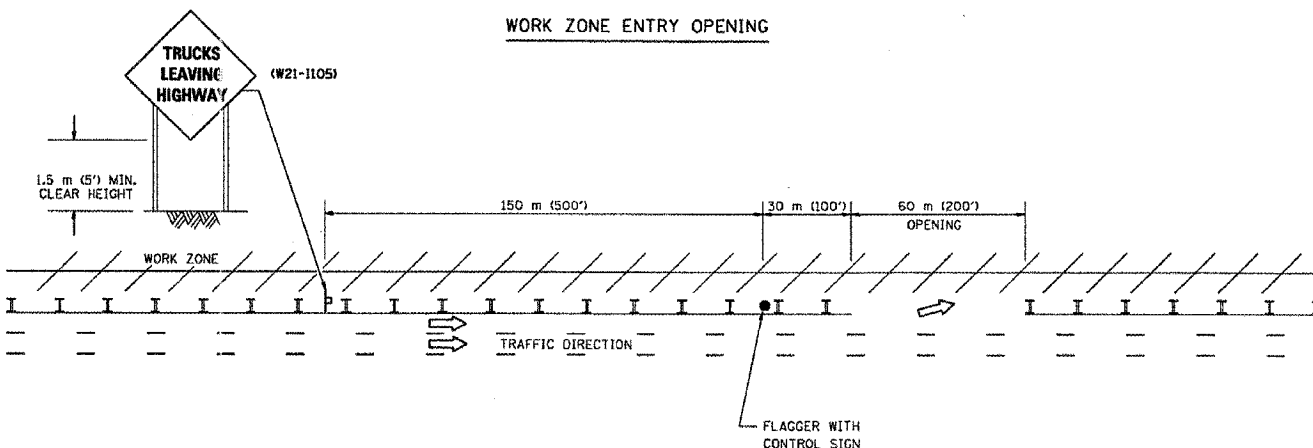
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			344	343
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

WORK ZONE EXIT OPENING



WORK ZONE ENTRY OPENING



NOTES:

1. The Arrowboard, the Flagger Ahead trailer mounted sign, and the Trucks Leaving Highway sign shall be removed or turned away from traffic and the exit and entry openings shall be closed when the flagging operation ceases.
2. Work Zone Exit Openings should be a minimum of one half mile apart.
3. Exiting the work zone at any place other than at a Work Zone Exit Opening will be prohibited.
4. All vehicles shall enter the work zone at entry openings, using their turn signals to warn motorists

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN

ILLINOIS DEPARTMENT OF TRANSPORTATION

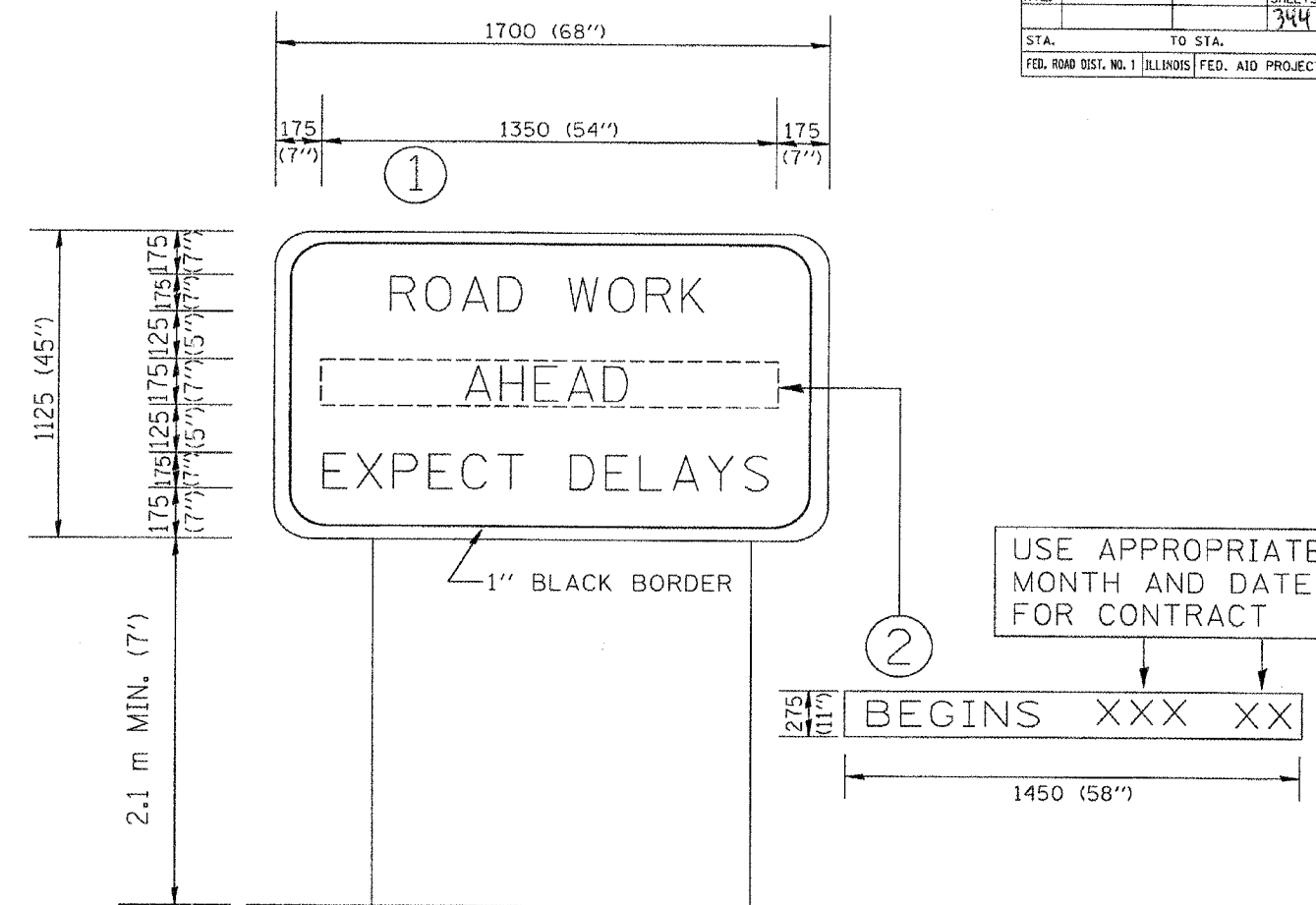
SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

REVISIONS	
NAME	DATE
DWS	8/98
JAF	4/03

SCALE: NONE
DATE 05/06/2003

DRAWN BY CADD
CHECKED BY TC-18

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			344	344
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	



NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 2.3 SQ. M. (25.70 SQ. FT.)

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.

REVISIONS	
NAME	DATE
R. MIRS	9-15-97
R. MIRS	2-11-97
T. RAMMACHER	2-2-99

ILLINOIS DEPARTMENT OF TRANSPORTATION
TEMPORARY INFORMATION SIGNING

SCALE: DATE 10/18/2002
DRAWN BY: BUR. OF DESIGN
CHECKED BY: