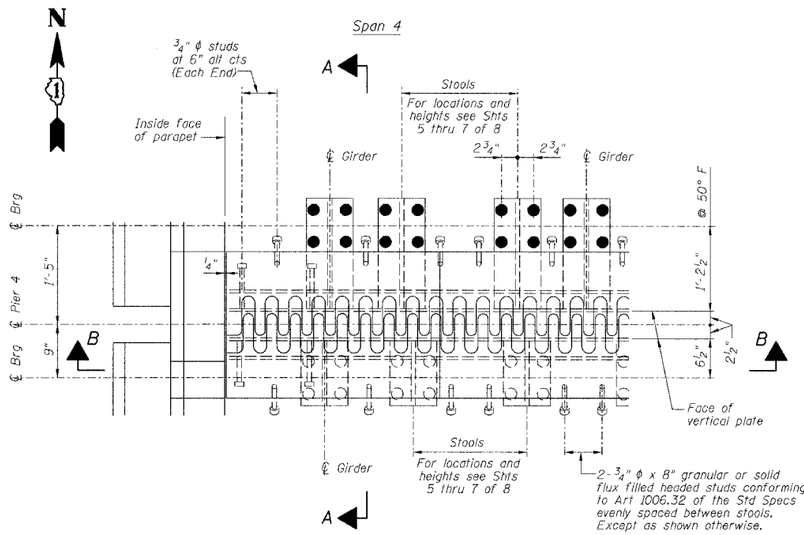
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 90/94	*	COOK	419	190
FED.ROAD DIST.NO.		ILLINOIS	PROJECT	

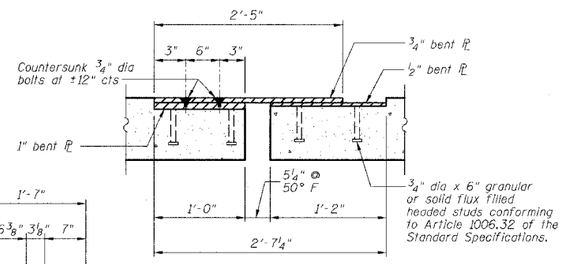
Sheet No 4 of 8 Sheets

* 2005-008F
CONTRACT #62580

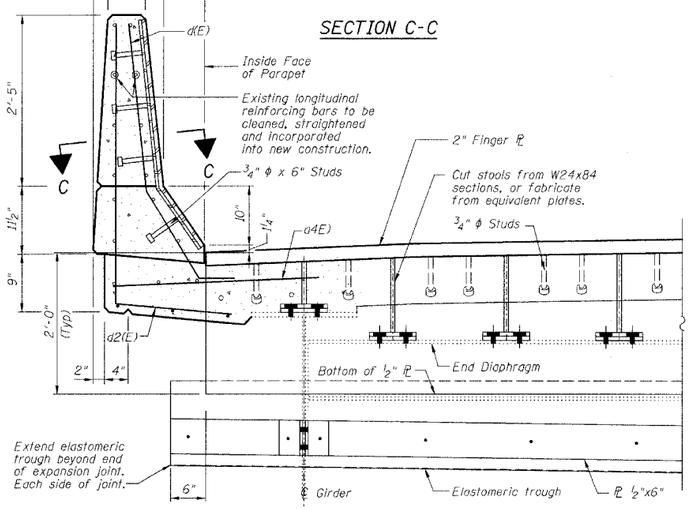


PLAN

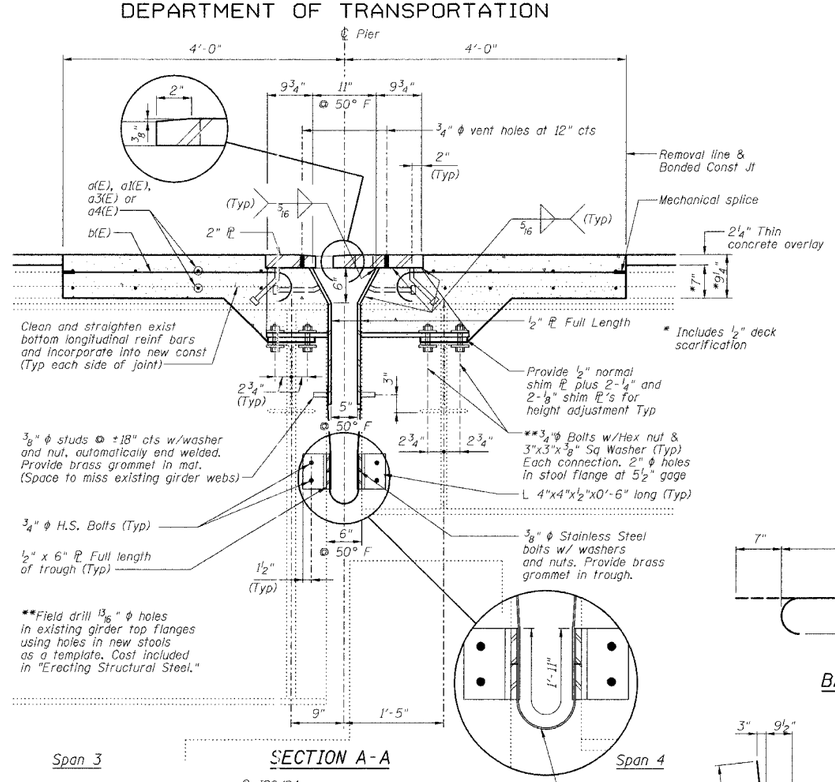
(Showing Southbound-Northbound similar)



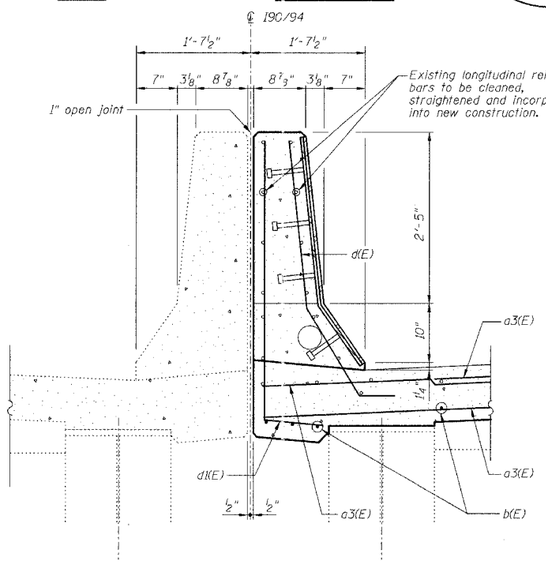
SECTION C-C



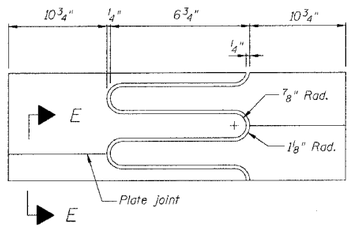
SECTION B-B



SECTION A-A

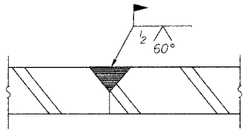


DETAIL AT MEDIAN PARAPET

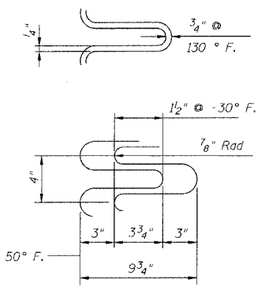


FLAME CUTTING DIAGRAM

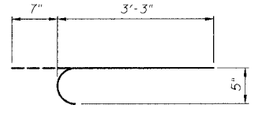
(Proposed Finger ℄ - Cut from 2" x 2'-4½" ℄)



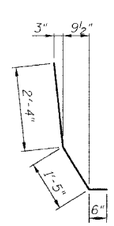
SECTION E-E



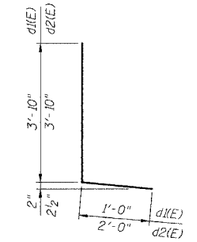
FINGER DETAIL



BAR b(E)



BAR d(E)



BARS d1(E) & d2(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d(E)	28	#5	30'-9"	—
a1(E)	30	#5	21'-0"	—
a3(E)	24	#5	31'-0"	—
a4(E)	16	#6	4'-6"	—
b(E)	180	#5	3'-10"	⌒
d(E)	16	#5	4'-3"	⌐
d1(E)	8	#5	4'-10"	⌐
d2(E)	8	#5	5'-10"	⌐
Reinforcement Bars, Epoxy Coated			Pound	3320
Concrete Removal			Cu Yd	23.0
Concrete Superstructure			Cu Yd	26.7
Bar Splicers			Each	24
Mechanical Splice			Each	180

Reinforcing bars designated (E) shall be epoxy coated.

Bars indicated thus 1x2-#5 etc indicates 1 line of bars with 2 lengths per line.

NOTES

1. The Contractor shall bolt the Stools of the Fingerplate Joint Assembly to the top of existing End Cross Frames and to the top of the existing girders, as shown in Section A-A of this drawing.
2. Stainless steel bolts, washers and nuts shall meet the requirements of ASTM A193.
3. The installation of all necessary hardware, stainless steel bolts, studs and washers, plates and angles shall be included with "Erecting Structural Steel".
4. Expansion Length = 348.5'

PIER NO. 4

FINGER PLATE EXPANSION JOINT DETAILS

REVISIONS		
No.	DATE	INITIALS
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

FAI RTE 90/94 DAN RYAN EXPRESSWAY
SN 016-1110 (NORTHBOUND)
SEC 2005-008F COOK COUNTY

HOMER L. CHASTAIN & ASSOCIATES CONSULTING ENGINEERS
8600 W. BRYN MAWR AVENUE SUITE 204 CHICAGO, ILLINOIS 60631
312-714-0050 FAX 312-714-0055

DRAWN BY	DATE RLK 5/03
CHECKED BY	DATE SDS 5/03
BOOK NUMBER	
PROJECT No.	4222-3
SHEET No.	