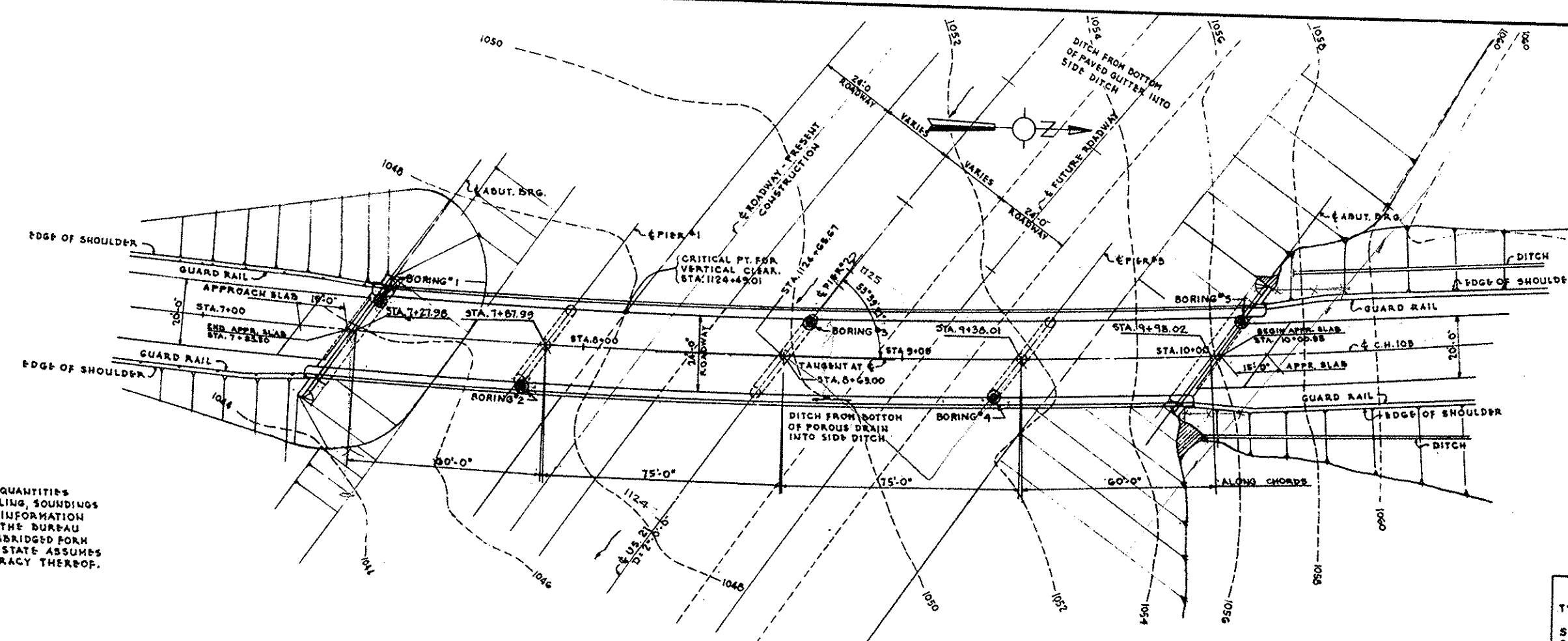


FED. NO. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

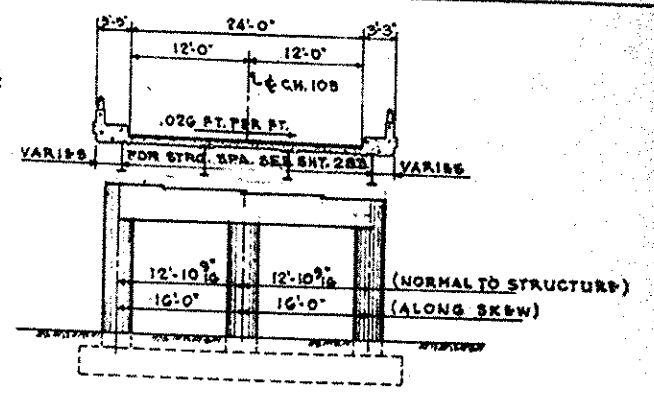
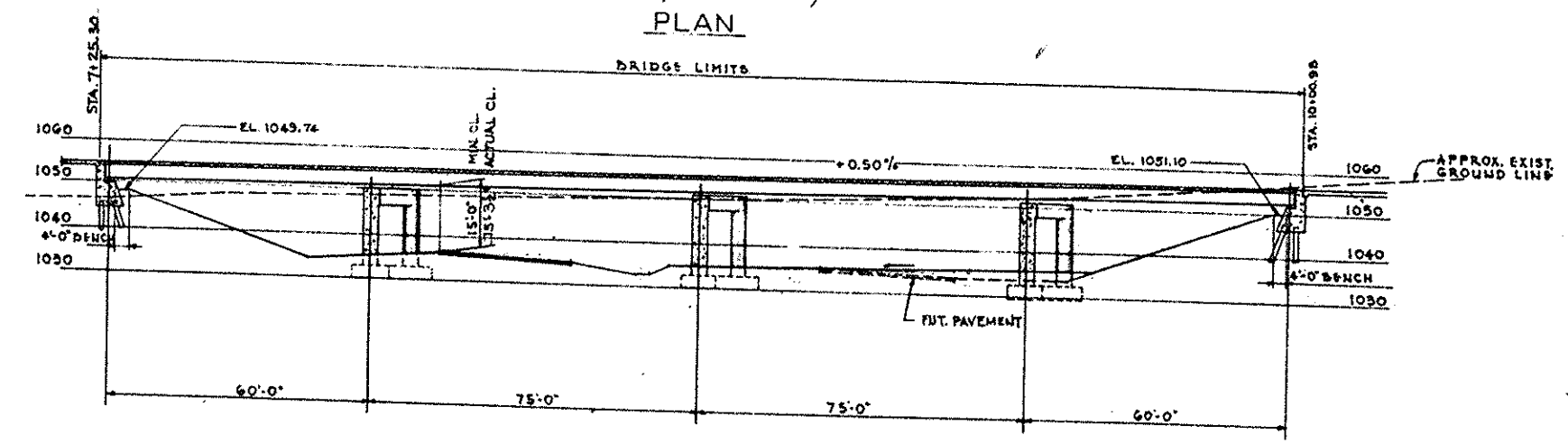
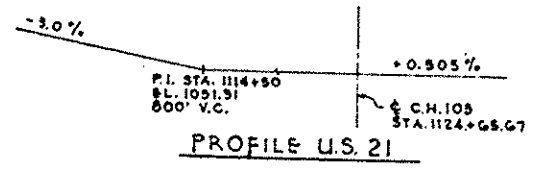
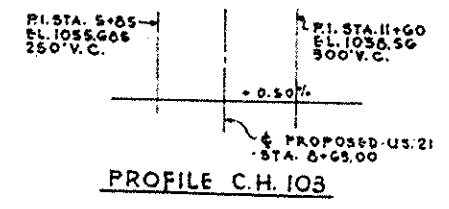
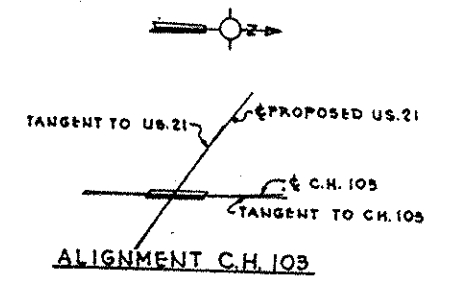
STA.-21-17.80
WAY-21-0.00
SUM-21-0.00



CURVE DATA
(P.I. STA. 8+33.56)
I = 8° 59' 35"
D = 2° 30' 0"
R = 2291.85'
T = 178.24'
L = 355.755'
(CURVE DATA ALONG & OF CH 103)

FOUNDATION SOUNDINGS:
FOUNDATION DESIGN AND FOUNDATION QUANTITIES ARE BASED ON A STUDY OF SOIL SAMPLING, SOUNDINGS MADE AT THE SITE. THIS SOUNDING INFORMATION MAY BE INSPECTED IN THE OFFICE OF THE BUREAU OF BRIDGES IN COLUMBUS OR IN AN ABRIDGED FORM IN THE DIVISION OFFICE, BUT THE STATE ASSUMES NO RESPONSIBILITY FOR THE ACCURACY THEREOF.

PROPOSED STRUCTURE
TYPE: CONTINUOUS STEEL BEAMS WITH REINF. CONCRETE DECK AND SUBSTRUCTURE
SPANS: 60'-0", 75'-0", 75'-0" AND 60'-0"
ROADWAY: 24'-0", 75'-0", 75'-0" AND 60'-0"
LOAD FREQUENCY RATING: C.F. 80
SKWB: 86'20"88"
SURFACE COURSE: ASPHALTIC CONCRETE
APPROACH SLAB: AS SHOWN
ALIGNMENT: ON 2°-30' CURVE



NOTE
PILING 12 BP 53
EST. AVERAGE N. ABUT. 25'-0"
P.Y. LENGTH S. ABUT. 25'-0"

D.M. # 218 EL. 1048.91
R.R. SPIKE IN 10' WILD CHERRY
300' RIGHT, STA. 1127+00.

CHARLES E. DE LEUW
CONSULTING ENGINEER
CHICAGO ILLINOIS

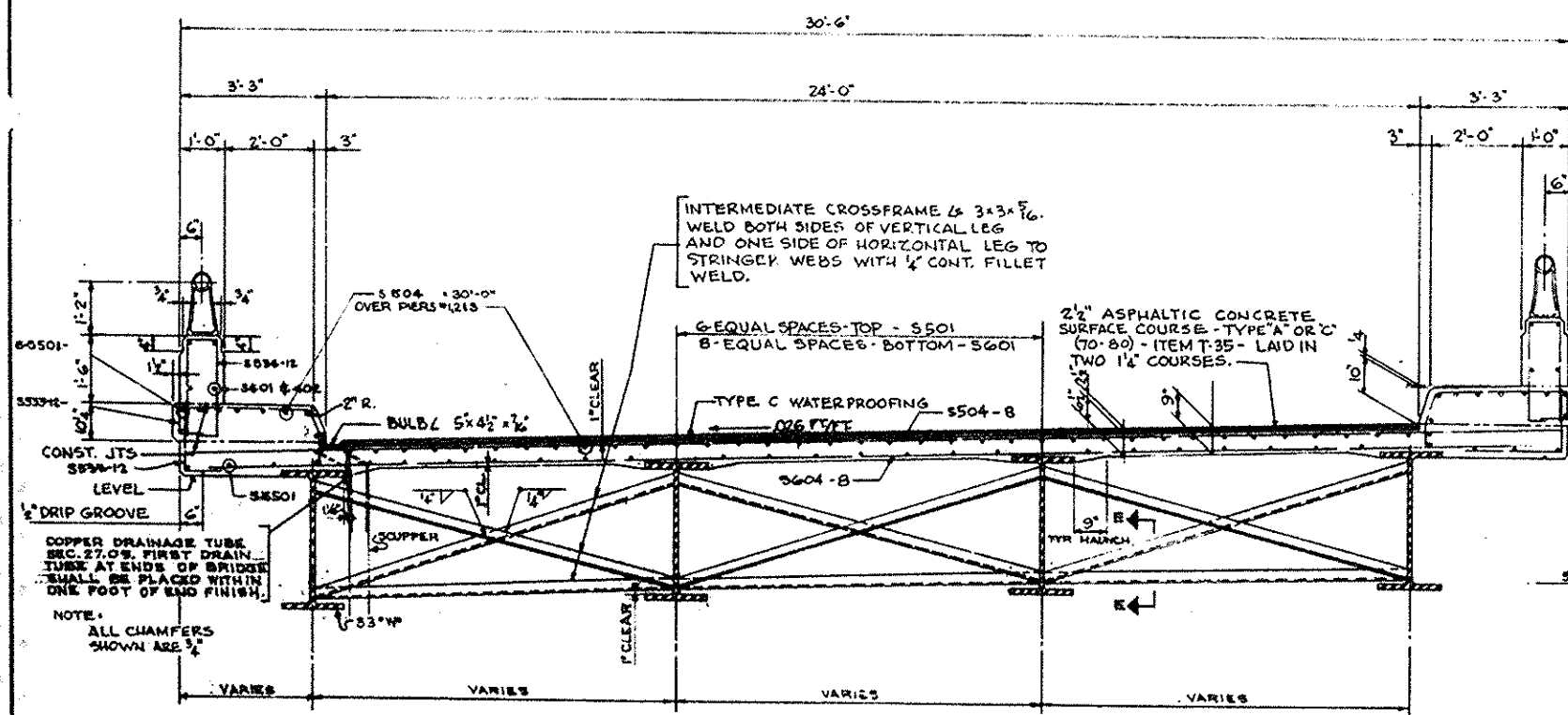
SITE PLAN
BRIDGE NO. STA-21-2130
U.S. 21 UNDER CH 103

STARK CO. STA. 1124+65.67
SEC. STA. -21

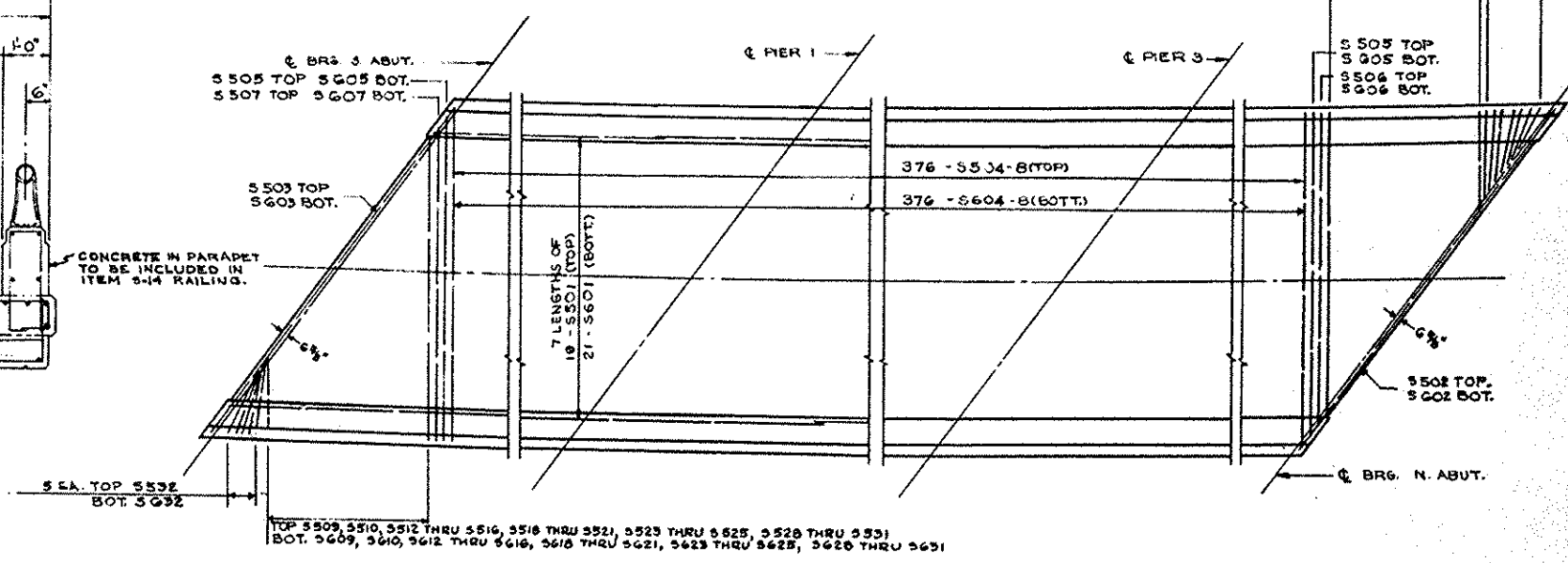
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
J.T.N.	ALB.		R.S.	L.N.R.	5-24-56	

STA-21-1780
WAY-21-000
SUM-21-000

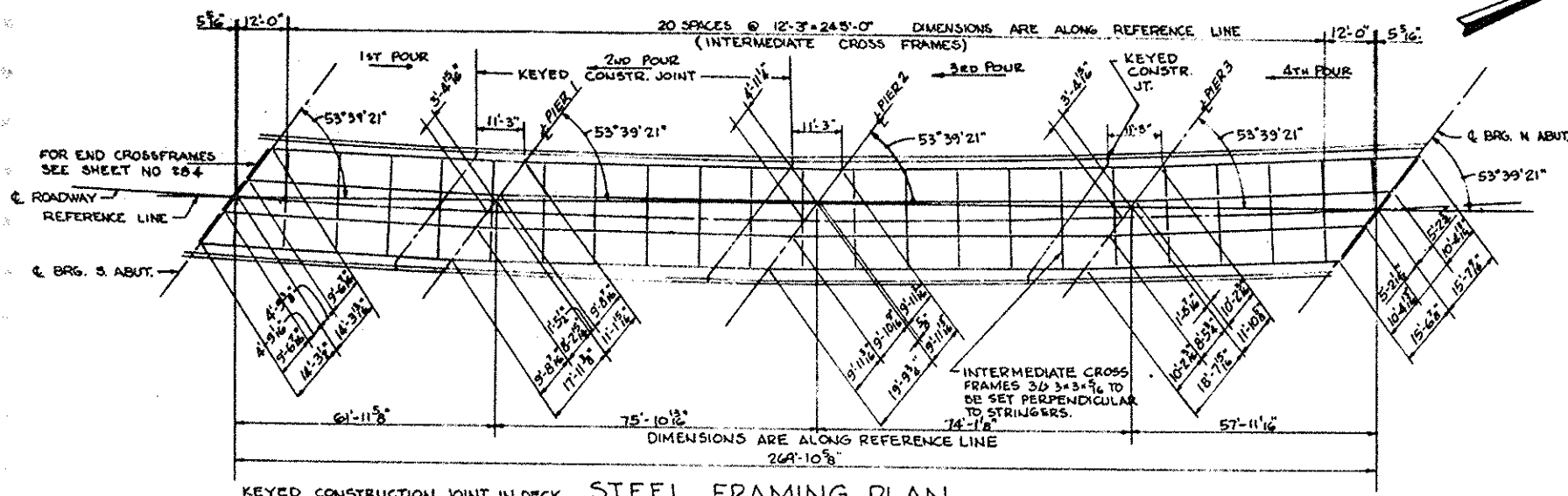
TOP 5506 - 5.531
BOT 5608 - 5.037
7-5532 TOP
7-5632 BOT.



TRANSVERSE SECTION



DECK SLAB REINFORCING PLAN



STEEL FRAMING PLAN

KEYED CONSTRUCTION JOINT IN DECK SLAB SHALL BE NORMAL TO THE CENTERLINE OF ROADWAY FOR 2'-0" INSIDE OF THE EDGE OF THE SLAB.

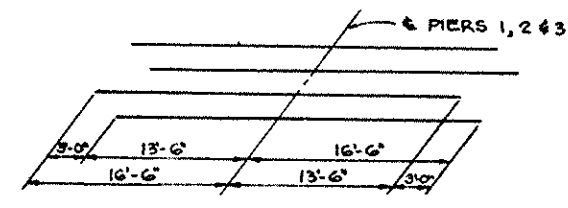


DIAGRAM SHOWING STAGGER OF S504 BARS OVER PIERS 1, 2, & 3

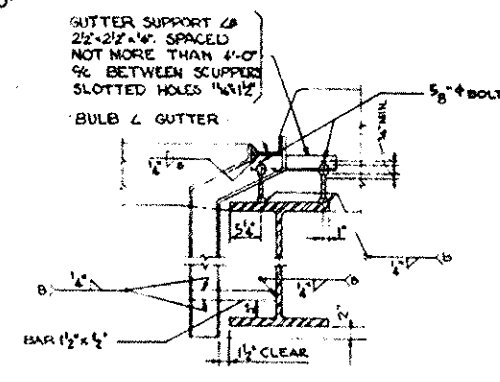
LOCATION	INTERIOR BEAMS 33WF141	EXTERIOR BEAMS 33WF141
PIERS #1,3	TOP R 10" x 16" x 17'-0"	10" x 16" x 17'-0"
	BOTT. E 13" x 16" x 17'-0"	13" x 16" x 17'-0"
PIER #2	TOP R 10" x 16" x 17'-0"	10" x 16" x 17'-0"
	BOTT. E 13" x 16" x 17'-0"	13" x 16" x 17'-0"

	ROCKERS	BOLSTERS
WEST ABUTMENT	R-75	
PIER NO. 1	R-200	
PIER NO. 2		B-200
PIER NO. 3	R-200	
EAST ABUTMENT	R-75	

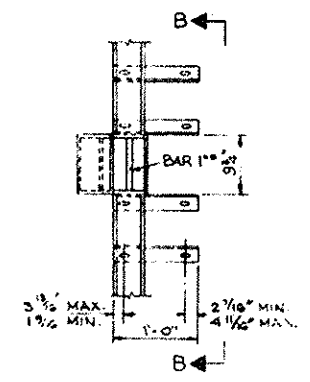
FOR DETAILS SEE DWG. NO. R61-55

	INTERIOR STRINGER		FASCIA STRINGER	
	END SPAN	MIDDLE SPAN	END SPAN	MIDDLE SPAN
DEFLECTION DUE TO WEIGHT OF STEEL	.0481"	.0653"	.0481"	.0653"
DEFLECTION DUE TO REMAINING D.L.	.2910"	.3950"	.5230"	.7100"
CAMBER REQ'D. FOR VERT. CURVE	0	0	0	0
SUM OF DEF. AND CAMBER	.3391"	.4603"	.5711"	.7753"
REQUIRED CAMBER	0"	0"	0"	.34"

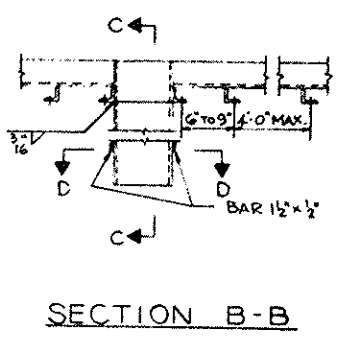
* CAMBER: NO CAMBERING OF BEAMS IS REQUIRED BUT THE BEAMS SHALL BE SO FABRICATED THAT ANY CURVED BEAMS WILL BE PLACED WITH THE CONVEX FLANGE UP.



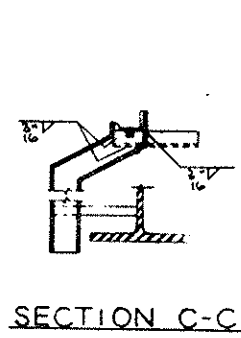
GUTTER SUPPORT AND SCUPPER



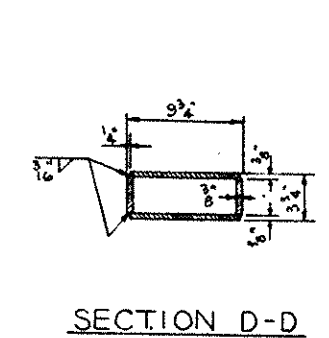
PART PLAN



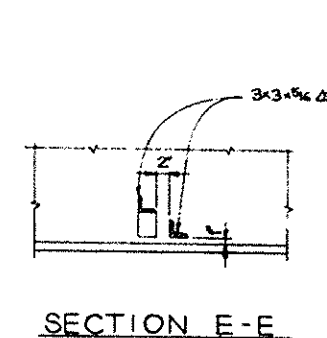
SECTION B-B



SECTION C-C



SECTION D-D



SECTION E-E

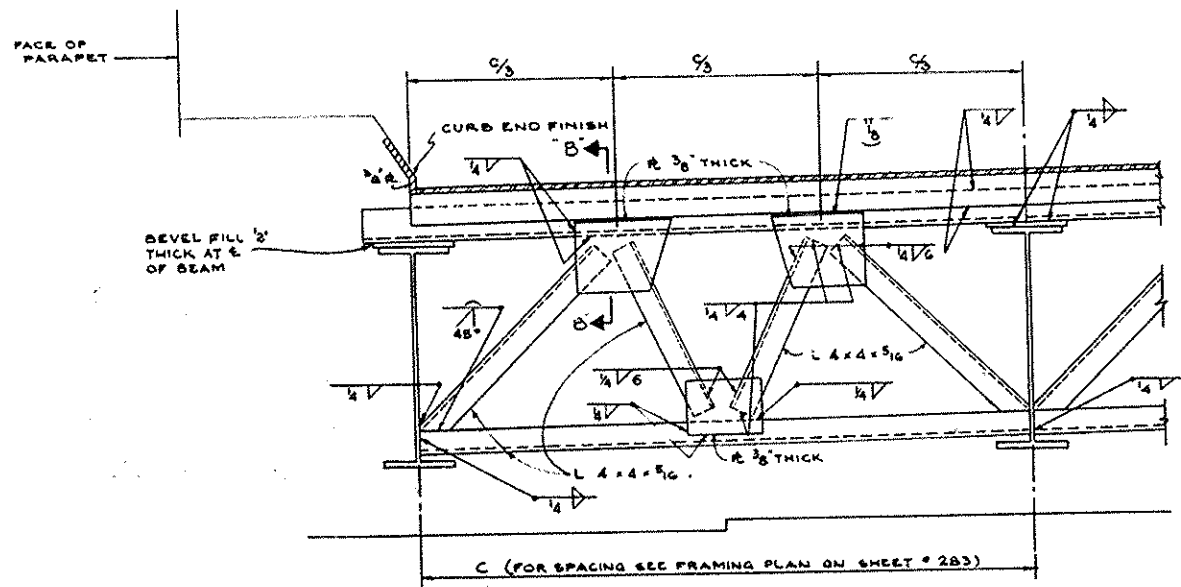
CHARLES E. DELEU
CONSULTING ENGINEER
CHICAGO ILLINOIS

SUPERSTRUCTURE DETAILS
BRIDGE NO. ST-21-2130
U.S. 21 UNDER CH 103

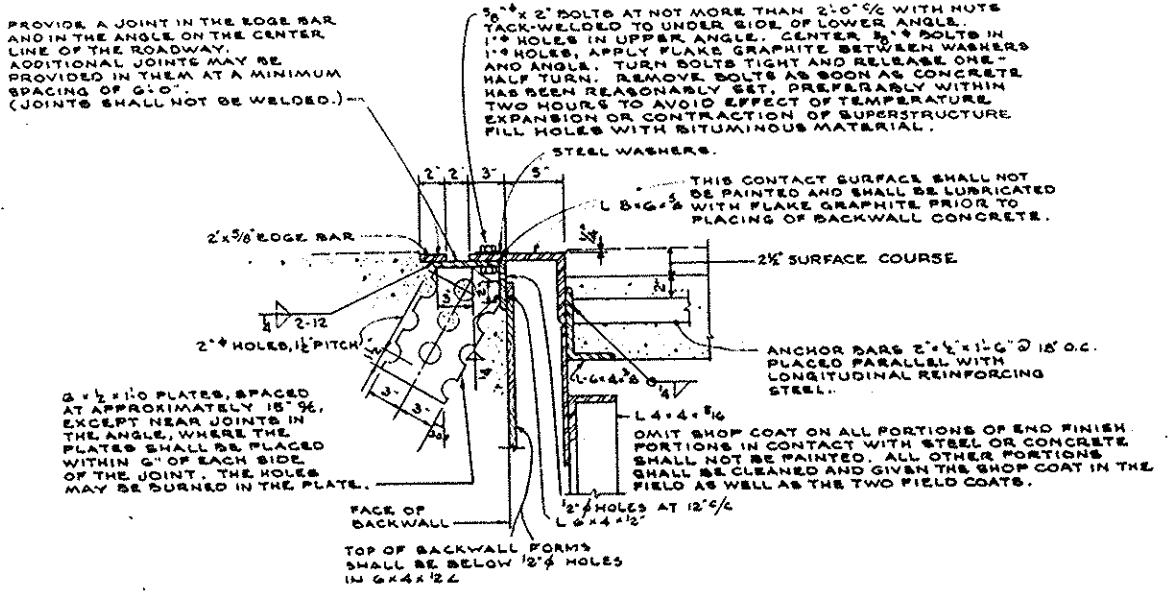
STARK CO STA. 1124+65.67
SEC. STA-21

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
J.E.	W.J.C.		D.J.L.	L.N.R.	5-24-56	

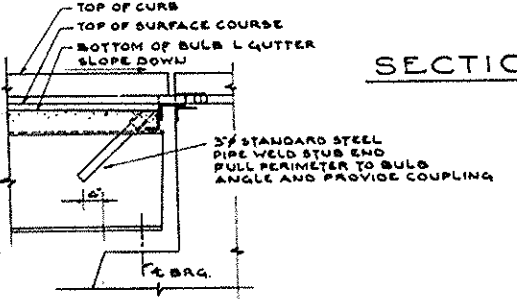
STA-21-1780
WAY-21-000
SUM-21-000



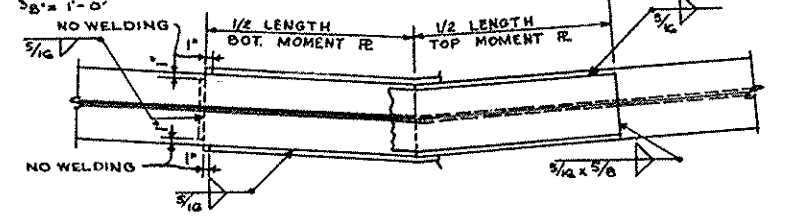
SECTION 'A-A'



SECTION 'B-B'

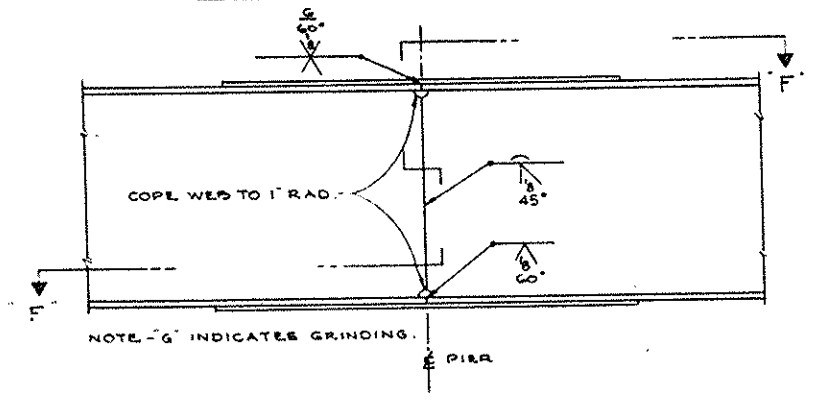


TYPICAL SECTION FOR GRADE SLOPING DOWN TO END FINISH



SECTION 'F-F'

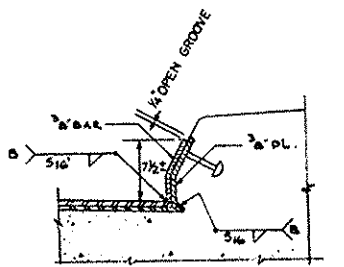
NOTE:
FOR SIZE OF MOMENT
R_S SEE SHEET # 283



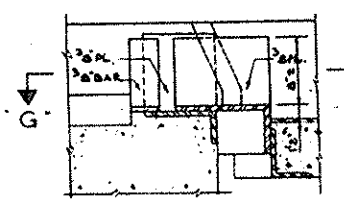
BEAM SPLICE DETAILS

BEAM SPLICE WELDING PROCEDURE
 1. RAISE END OF BEAM 2 3/8" AT PIER 2.
 2. BUTT WELD BEAM FLANGES AND WEB AT PIER 1.
 3. WELD TOP AND BOTTOM FLANGE MOMENT PLATES AT PIER 1.
 4. LOWER END OF BEAM AT PIER 2.
 5. MAKE SPLICE AT SECOND AND SUCCEEDING PIERS IN THE SAME MANNER, RAISING THE END OF THE BEAMS 2 1/2" AT PIER 3, AND 1 3/4" AT THE ABUTMENT.
WELDING SEQUENCE: MAKE ONE PASS IN EACH PLANE, THEN ONE PASS IN THE WEB. REPEAT UNTIL WELDS ARE COMPLETED.

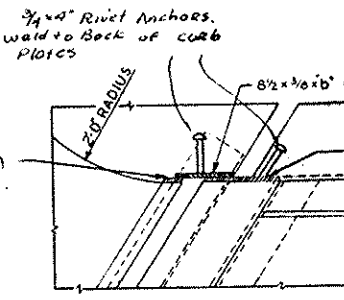
DIMENSION	NE	NW	SE	SW
a	2 5/8	2 5/8	2 3/8	2 1/16
b	7 3/16	7 7/8	7 3/16	7 1/16
c	10 3/8	10 7/16	9 3/16	9 3/16



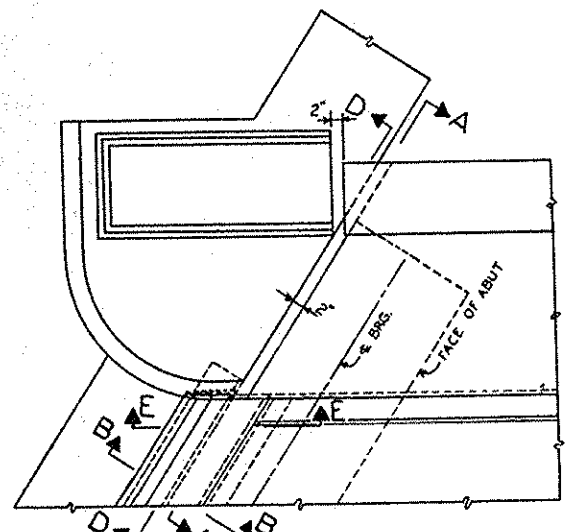
SECTION 'D-D'



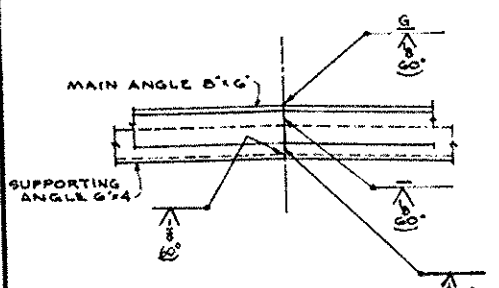
SECTION 'E-E'



SECTION 'G-G'



PARTIAL PLAN AT ABUTMENT



WELDED BUTT JOINT IN SUPERSTRUCTURE END FINISH ANGLES AT C OF ROADWAY.

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CHICAGO ILLINOIS

SUPERSTRUCTURE DETAILS
 BRIDGE NOWAY-21-2130
 U.S. 21 UNDER CH 103

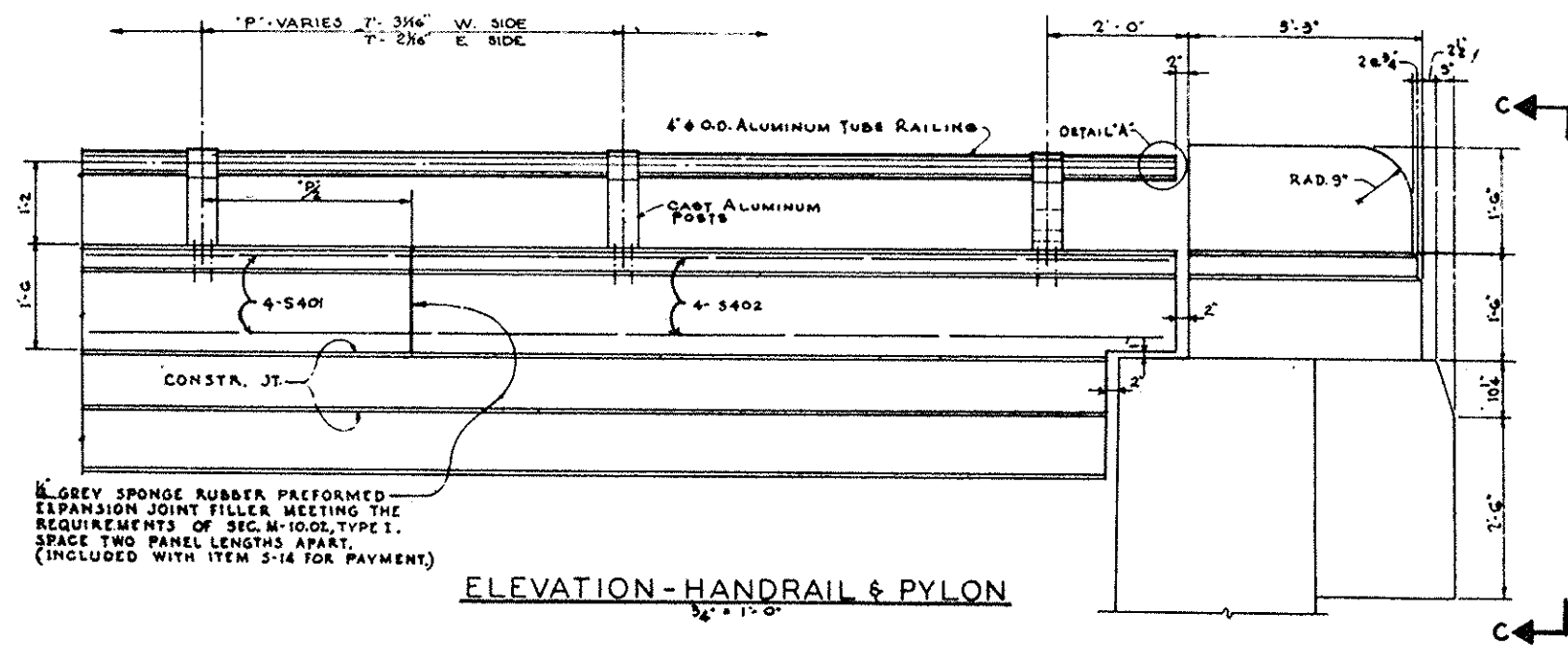
STARK CO. STA. 1124+65.67
 SEC. STA-21

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISION
J.E.	J.N.		R.S.	L.N.R.	5-24-56	

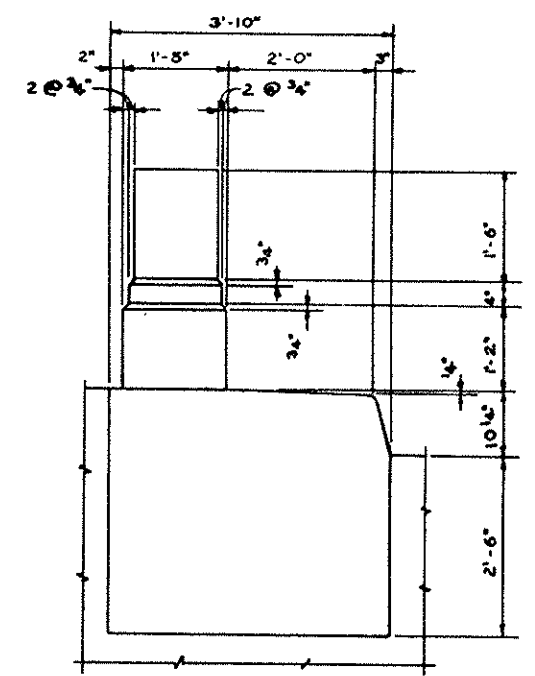
FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

285
329

STA.-21-17.80
WAY -21-0.00
SUM-21-0.00

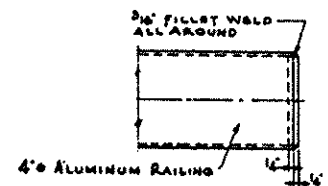


ELEVATION - HANDRAIL & PYLON
3/4" = 1'-0"



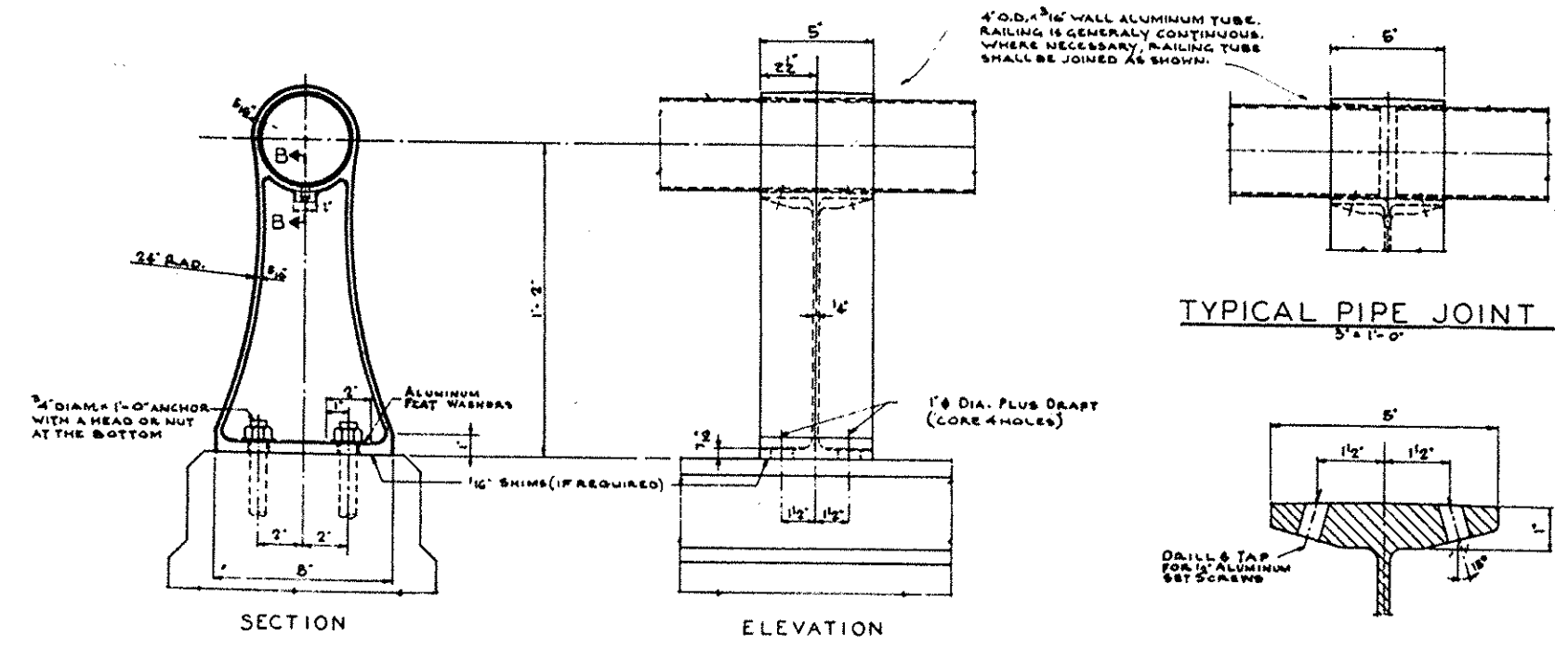
VIEW C-C
3/4" = 1'-0"

GREY SPONGE RUBBER PREFORMED EXPANSION JOINT FILLER MEETING THE REQUIREMENTS OF SEC. M-10.02, TYPE I. SPACE TWO PANEL LENGTHS APART. (INCLUDED WITH ITEM 5-14 FOR PAYMENT)



DETAIL A
3/4" = 1'-0"

4\"/>



HANDRAIL DETAILS
3/4" = 1'-0"

TYPICAL PIPE JOINT
3/4" = 1'-0"

SECTION B-B
3/4" = 1'-0"

NOTE:
FOR FURTHER DETAILS SEE SUPPLEMENTAL SPECIFICATIONS NO. E-114 ALUMINUM FOR BRIDGE RAILING, DATED AUGUST 30, 1955

DESIGNED						DRAWN						TRACED						CHECKED						REVIEWED						DATE						REVISED					
M.C.						R.K. ALB.						R.S.						L.N.R.						5-24-56																	

CHARLES E. DE LEUM
CONSULTING ENGINEER
CHICAGO ILLINOIS

HANDRAIL AND PYLON DETAILS
BRIDGE NO. STA-21-2130
U.S. 21 UNDER CH 103

STARK CO.
SEC. STA.-21 STA. 1124+65.67

