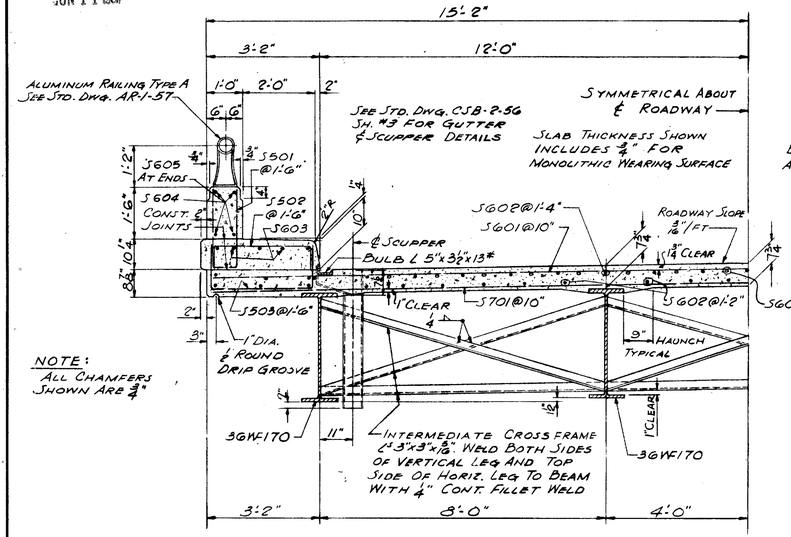
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

202
228

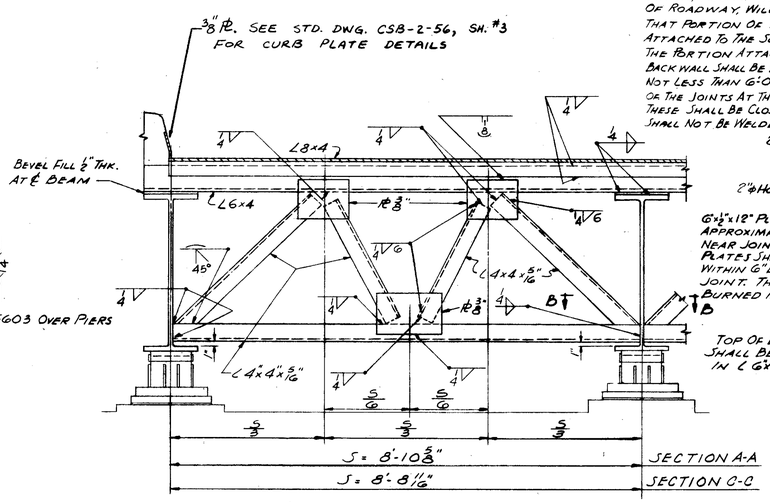
LAKE COUNTY
LAK-44-1.70

NOTE: ALL LONGITUDINAL BARS S602 EXCEPT AS OTHERWISE SHOWN. LAP S602 BARS 1'-11" MINIMUM



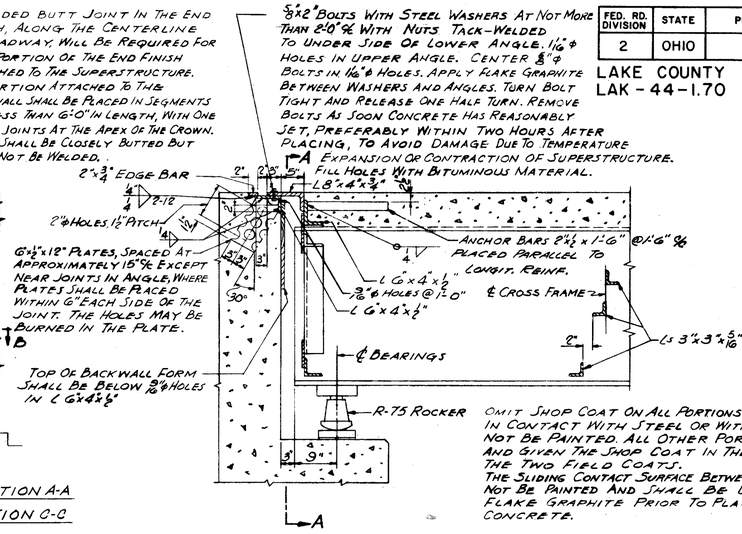
NOTE: ALL CHAMFERS SHOWN ARE ¾"

TRANSVERSE HALF SECTION



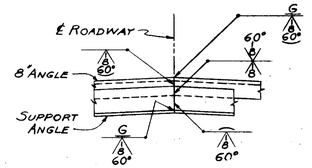
SECTION A-A
SECTION C-C (DWG. 215)

A WELDED BUTT JOINT IN THE END FINISH, ALONG THE CENTERLINE OF ROADWAY, WILL BE REQUIRED FOR THAT PORTION OF THE END FINISH ATTACHED TO THE SUPERSTRUCTURE. THE PORTION ATTACHED TO THE BACK WALL SHALL BE PLACED IN SEGMENTS NOT LESS THAN 6'-0" IN LENGTH, WITH ONE OF THE JOINTS AT THE APEX OF THE CROWN. THESE SHALL BE CLOSELY BUTTED BUT SHALL NOT BE WELDED.

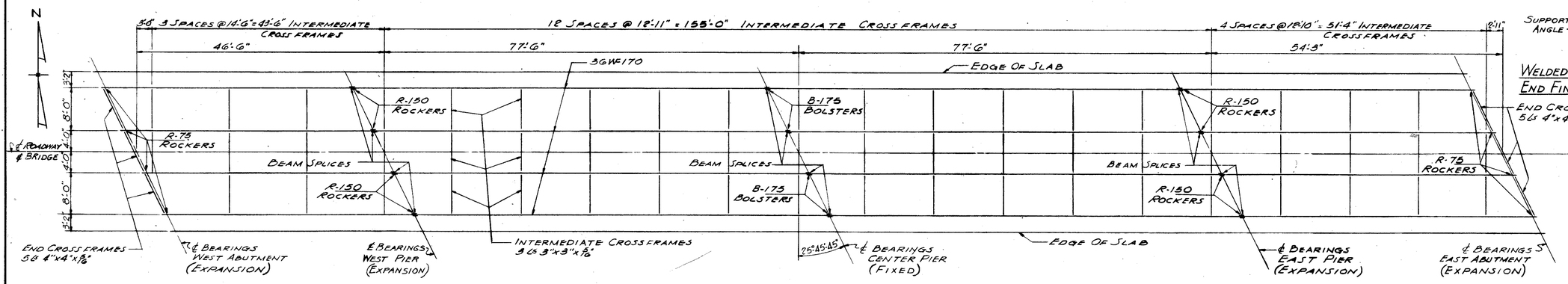


ROADWAY END FINISH

OMIT SHOP COAT ON ALL PORTIONS OF END FINISH. PORTIONS IN CONTACT WITH STEEL OR WITH CONCRETE SHALL NOT BE PAINTED. ALL OTHER PORTIONS SHALL BE CLEANED AND GIVEN THE SHOP COAT IN THE FIELD AS WELL AS THE TWO FIELD COATS.
THE SLIDING CONTACT SURFACE BETWEEN THE 6"x4"x⅝ & 8"x4"x½ SHALL NOT BE PAINTED AND SHALL BE LUBRICATED WITH FLAKE GRAPHITE PRIOR TO PLACING OF BACKWALL CONCRETE.



WELDED BUTT JOINT IN SUPERSTRUCTURE END FINISH ANGLES AT ℄ OF ROADWAY



FRAMING PLAN

SEE DWG. 215 FOR NOTES.

BEAM SPLICE WELDING PROCEDURE

1. RAISE END OF BEAM AT SECOND PIER 1⅜".
2. BUTT-WELD BEAM FLANGES AND WEB AT FIRST PIER USING THE FOLLOWING SEQUENCE: MAKE ONE PASS ON EACH FLANGE, THEN ONE ON THE WEB; REPEAT UNTIL WELDS ARE COMPLETED.
3. WELD TOP AND BOTTOM FLANGE MOMENT PLATES AT FIRST PIER.
4. LOWER END OF BEAM AT SECOND PIER.
5. MAKE SPLICE AT SECOND AND THIRD PIERS IN THE SAME MANNER RAISING THE END OF THE BEAMS 2½" AT THE THIRD PIER AND 1⅜" AT THE ABUTMENT.

DEFLECTION AND CAMBER						
LOCATION	OUTSIDE BEAMS			INSIDE BEAMS		
	46'-6" SPAN	77'-6" SPAN	54'-3" SPAN	46'-6" SPAN	77'-6" SPAN	54'-3" SPAN
DEFLECTION DUE TO WEIGHT OF STEEL	NEGLIGIBLE	1⅜"	NEGLIGIBLE	NEGLIGIBLE	1⅜"	NEGLIGIBLE
DEFLECTION DUE TO REMAINING DEAD LOAD	↓	5/8"	3/16	↓	½"	3/16
SUM OF DEFLECTIONS		¾"	3/16		5/8"	3/16
REQUIRED CAMBER	0	0	0	0	0	0

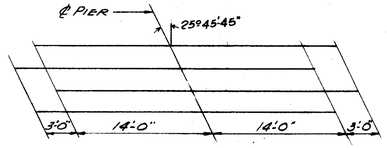
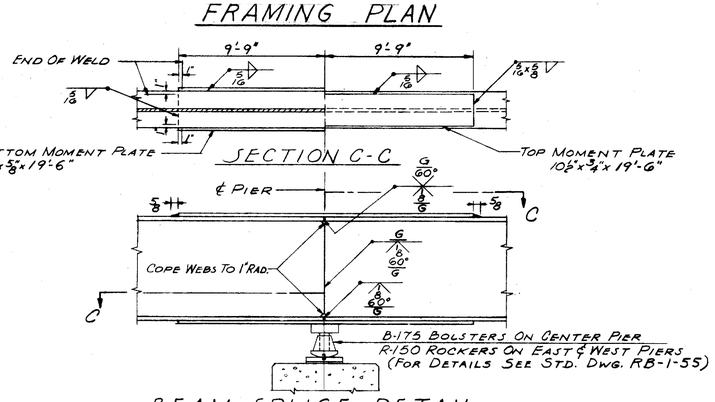
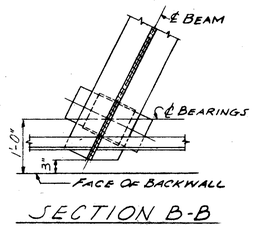


DIAGRAM SHOWING STAGGER OF S603 BARS OVER PIERS



BEAM SPLICE DETAIL WITH MOMENT PLATES



SECTION B-B

TRYGVE HOFF & ASSOCIATES
ENGINEERS
1922 EAST 107TH STREET CLEVELAND, OHIO

SUPERSTRUCTURE DETAILS

BRIDGE NO. LAK-44-0304
S.R. 44 UNDER PROUTY ROAD
LAKE COUNTY S.R. 44
STA. 1600+83.52

SCALE DATE

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
CLS	CAT		GLP	A.J.	4-24-58	