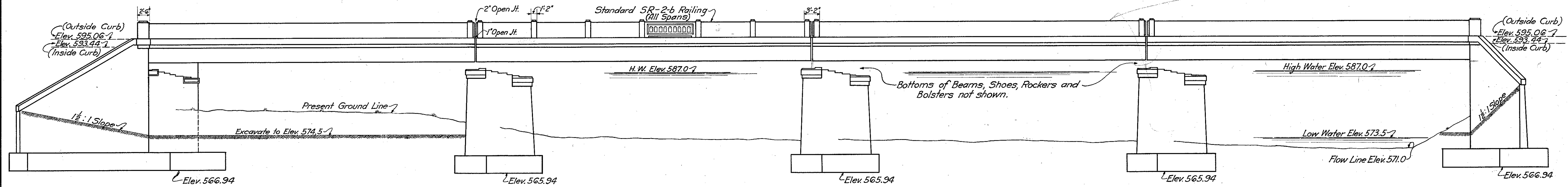


GENERAL PLAN

End Spans - 70'-3" c.to.c. Bearings
Center " - 70'-6" " " " "

4- 70 ft. Spans - c. to c. bearings
8 rows 36" I-beams (6 @ 192* and 2 @ 230*)
30 ft. Roadway plus 2-3'-5" Sidewalks, 15° L.F. Skew,
5° Curve to Left SR-2-b Railing.
3" Brick plus 3/4" cushion.
0% Grade.



GENERAL ELEVATION

G E N E R A L N O T E S

THE SUPERSTRUCTURE shall be four 70 ft. center-to-center spans steel I-Beam. spans 15° Left Forward skew of Bridge, the entire structure being on a 5° Curve to the left. The Roadway shall be 30 ft. between curbs and there shall be two 3'-5" Sidewalks.

WEARING SURFACE shall be lug brick, wire cut type or lug brick repressed type laid 3" depth with F-1 filler on a 3/4" cushion.

LOADING: Bridge is designed for H-15 Loading.

CAMBER: All 192" I-Beams (Interior Beams) shall have a camber of 1/4" under no load; all 230" I-Beams (Outside Beams) shall have a camber of 2" under no load, the purpose of which is to offset deflection.

PAYMENT: 1/8" Sheet Lead, Cast Iron and Cast Steel shall be included with structural steel for payment.

CONCRETE MIX shall be 1:5 1/2 for superstructure and substructure except footings which shall be 1:6 1/2.

RAILING shall be reinforced concrete railing, 1:5 1/2 mix, type SR-2-b.

CONSTRUCTION JOINTS: No horizontal construction joints other than those shown will be permitted. Vertical construction joints, allowed only by special permission of the Engineer. Superstructure

concrete shall be placed full width out to out of curbs between transverse construction joints approved by the Engineer. All construction joints in abutments above low water elevation shall be sealed on back with Type "B" Waterproofing, 36" wide.

CHAMFER all exposed edges 3/4" unless otherwise shown.

PAINT: Structural Steel shall be given one shop coat of red lead or sublimed blue lead and two field coats of aluminum according to Construction and Material Specifications. Contact surfaces to be given one shop coat before assembly.

EXCAVATION above elevation 573.5 not included in "Channel Excavation" shall be classed as Dry Excavation. All below Elev. 573.5 and not included in "Channel Excavation" shall be classed as Wet Excavation.

PAYMENT FOR FRENCH DRAINS included in payment for dry excavation.

REINFORCING BARS in footings shall be securely fastened in proper position before footing concrete is placed. Top of footings shall be thoroughly cleaned before wall concrete is placed.

ANCHOR BOLTS: Special care shall be used in placing reinforcing

steel to allow sufficient space for anchor bolt holes without cutting the bars. Anchor bolt holes shall not be drilled until beams are in place. Anchor Bolts shall be 1/2" set 1'-0" in masonry.

RIVETS: All rivets shall be 3/4".

SETTING ROCKERS: The rockers shall be so placed that when the bridge is completed, the rockers will stand in a vertical position at average temperature.

SHEET LEAD: Place an 1/8" thickness of sheet lead under each bolster and rocker base plate on bridge seat.

END FINISH shall be used as template for top of backwall on abutments. Backwall shall be built after the structural steel has been erected.

NO TEMPORARY DETOUR BRIDGE REQUIRED: Present bridge to remain in place.

G E N E R A L Q U A N T I T I E S

Concrete 1:6 1/2 mix (Figs.)	Piers = 101.0	446
	Abuts. = 359.0	345.0
		460 Cu. Yds.
Concrete 1:5 1/2 mix (Walls)	Pier = (240.0) - 320	640
	Abuts. = 320.0	(560)
		560 Cu. Yds.
Concrete 1:5 1/2 mix (Superstructure + Sidewalk)		314 Cu. Yds.
Wearing Surface (3" Brick plus 3/4" cushion)		347 Sq. Yds.
Concrete Railing (Type SR-2-b; 1:5 1/2 mix)		578 Lin. Ft.
Reinforcing Steel	Piers = 10,880	
	Abuts. = 36,500	35,850
	Superstr. 80,135	126,866
		127,515 Lbs.
Structural Steel		550,000 Lbs.
Wet Excavation		1,000 Cu. Yds.
Dry Excavation		700 Cu. Yds.
Channel Excavation		18,249 Cu. Yds.
1/4" Prem. Exp. Jt. Filler		31 Sq. Ft.
Type "B" Waterproofing		45 Sq. Yds.
12"-24 oz. Folded Copper Strip		465 Lin. Ft.
Steel H-Beam Piling (10"x10"@49') (to establish unit price)		1 Lin. Ft.
Cofferdams, Sheeting and Pumping		Lump Sum

BR. NO. LA-283-47

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

**GENERAL PLAN
ELEVATION & NOTES**
BRIDGE OVER CHAGRIN RIVER
S.H. 520 LAKE COUNTY
SECTION B & C BRs. STA. 175+70

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
C&R	C&R	JKJ	K.S.D.	W&A	12/31-31	1-25-32 3-25-32

Gen. Notes & Pier Quantities Revised - Mar. 25, 1932 - C.E.N.
General Quantities Revised - Jan. 25, 1932 - C.E.N.