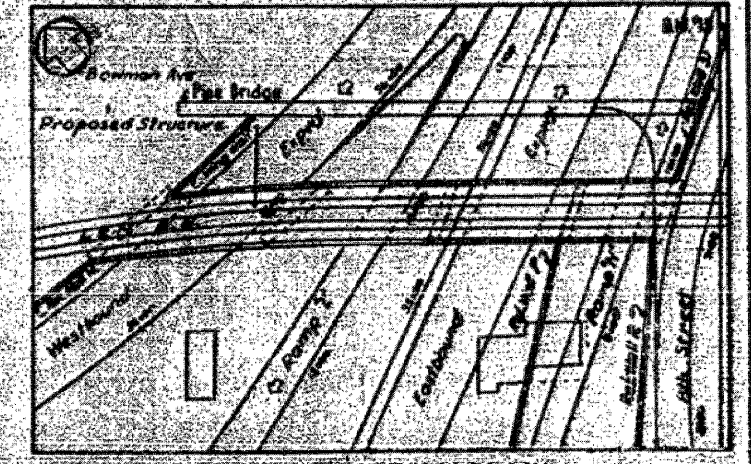
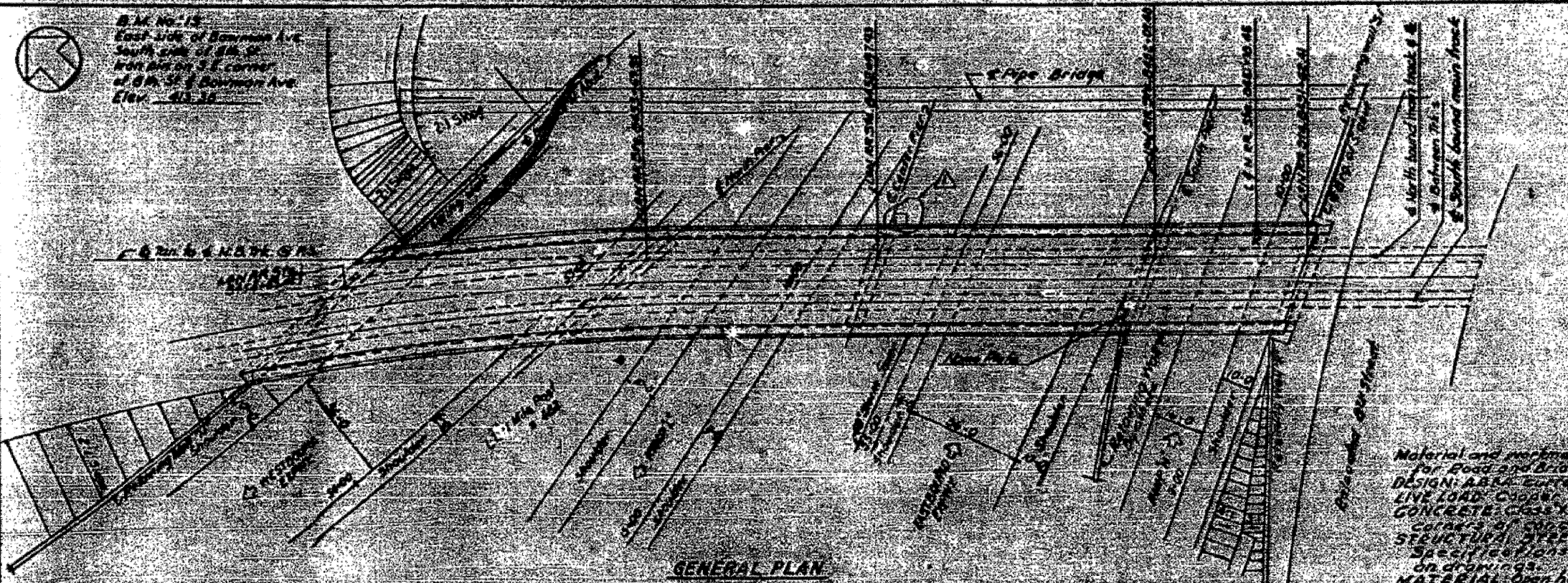


PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-70-111	82-1	ST. CLAIR	629	448
FED. ROAD DIST. NO. ILLINOIS PROJECT 70-111				



Sta. 55+11.29
 BUILT BY
 STATE OF ILLINOIS
 F.A.I. RY. TO SEC. 82-1-38
 FA PROJECT 70-111 (20)
 LOADING 12

DESIGN STRESSES
 $f_c = 14,000$ p.s.i. (Superstructure)
 $f_c = 10,000$ p.s.i. (Structure with earth pressure)
 $f_s = 20,000$ p.s.i. (Reinforcement)
 $f_s = 10,000$ p.s.i. (Structural Steel)
 $v = 10$
 $v = 75$ p.s.f. (Footings)

ELEVATION



GENERAL NOTES CONTINUED

REINFORCEMENT: All reinforcement shall be deformed bars (A305), new high strength intermediate grade ASTM A1080 current. PILES shall be concrete and timber with a minimum load capacity as shown on the plans.
TEST PILES: Concrete and timber shall be driven in permanent location shown on the plans as directed by the engineer before ordering remainder of pile.
SOILING DATA: is shown on the drawings as a guide to be used in estimating soil conditions which may be encountered on the work.
 The back of the abutment walls, wing walls and retaining walls shall be waterproofed from top of footing to ground surface in accordance with Article 3181 of the Standard Specifications. The bitumen used shall be asphalt.
 Members shall be protected that be in accordance with Section 83 of the Standard Specifications. The bitumen used shall be asphalt.
 Earth pressure: The horizontal pressure shall be that of fluid weighing 90 p.c.f. and the vertical pressure in such instances that of a fill weighing 100 p.c.f.
 The live load surcharge shall be 100 pounds p.s.f. 14 feet wide per track on a material with an angle of repose of 45°.
 Provide 3' x 3' of heavy granular embankment behind the abutments and the stems of Wall N, Northeast Wing Walls E and S, as called for on drawings.
 The 6" corrugated metal pipe perforated shall be galvanized.

GENERAL NOTES
 Material and workmanship shall be in accordance with "Standard Specifications for Road and Bridge Construction, State of Illinois, adopted January 8, 1956."
DESIGN: AREA, current specifications, except as noted below and shown on drawings.
LIVE LOAD: Cooper E-16.
CONCRETE: Class "C" concrete shall be used throughout. All exposed edges and corners of concrete shall be chamfered 3/8".
STRUCTURAL STEEL: shall be fabricated in accordance with AREA Specifications for Steel Railway Bridges (current), except as noted on drawings.
MATERIAL: Open hearth structural and rivet steel, A.S.T.M. A7 and A16 current, except bearings shall be of cast steel annealed as noted.
WELDS: All open holes shall be riveted.
WELDED CONNECTIONS: to be riveted.
COVER RATES: Universal Mill Plates with both edges rolled shall be used for cover to bottoms of end stiffener angles and their fills shall be milled to bear on bottom flange angles. The stiffener angles shall be ground to fit the fillets of the flange angles.
 The backs of the bottom flange angles of end bearings shall be in a true plane (perpendicular to center line of web) for the full width of the flange, and the full length of the sole plate, so the flange angles will have a full bearing on the sole plate or cover plate.
 Diaphragm webs shall be flush with the backs of the top and bottom diaphragm angles to avoid grooves that will hold water.
 No welding of steel will be permitted except as noted.
DETAILS: All holes in cover plates, flange angles, web plates, web splice plates and end stiffeners (except gusset) shall be sub-punched 1/8" and reamed to the whole assembled holes in laterals, lateral plates, diaphragms, top stiffeners and their fills, and OSL of end stiffeners may be punched to 1/8".
ANCHOR BOLTS: 1 1/2" in diameter, 10' lengths.
PAINT: See Article 321 to 325 inclusive of the Standard Specifications.
Shop Paint: one coat Red Lead and Linseed Oil except for finished surfaces of pedestal which shall be coated with white lead and follow applied hot as seen as the surfaces have been finished and accepted by the Inspector.
Field Paint: first and second field coats shall be Aluminum paint.
 All paint shall be furnished and applied by the contractor involved.
 All roller pins, bearing plates, pinners and anchor bolts shall be fabricated and set in accordance with AREA Specifications for Steel Railway Bridges (current) and are included for payment as Structural Steel Estimated Weight 48,130 lbs.
 All steel expansion devices between slabs and of piers and abutments and the perforated drainage angles shall be fabricated and set in accordance with Standard Specifications and are included for payment as Structural Steel Estimated Weight 39,460 lbs.

LETTERING FOR NAME PLATE TOTAL BILL OF MATERIAL FOR BRIDGE NO. 7, PIPE BRIDGE AND WALLS "N", "O", "E" & "S"

UNIT	DESCRIPTION	SECTION 82-228		TOTAL
		SUPER-STRUCTURE	SUB-STRUCTURE	
GF	SPECIAL EXCAVATION		6,100	6,100
CV	CLASS "C" CONCRETE FOR STRUCTURES	115	4,557	4,672
CY	CLASS "C" CONCRETE	115	4,166	4,281
LB	REINFORCEMENT BARS	65,652	389,163	454,815
LB	STRUCTURAL STEEL	215,450		215,450
LP	PIPE MANHOLE (GALVANIZED)	(25)		(25)
ES	TEST PILE (CONCRETE)		5	5
LF	FURNISHING CONCRETE PILES		14,643	14,643
LF	DRIVING CONCRETE PILES		14,643	14,643
ES	TEST PILE (TIMBER)		11	11
LF	FURNISHING DRIVAGE PILES		21,648	21,648
LF	DRIVING DRIVAGE PILES		21,648	21,648
ES	NAME PLATES		2	2
LB	6" G.M.R. PERFORATED GALVANIZED		1,176	1,176
SP	MEMBRANE WATER PROOFING	2,170		2,170
MB	PUMPING	15		15
LS	ROUGH IRON PIPE DRAIN SYSTEM		1,000	1,000
LS	TEMPORARY SHIELDING & BRACING		1,000	1,000
LP	CHAIN LINK FENCE		217	217
CY	POROUS GRANULAR EMBANKMENT		365	365

STATE OF ILLINOIS
 DEPARTMENT OF PUBLIC WORKS & BLDGS.
 DIVISION OF HIGHWAYS
 CITY OF EAST ST. LOUIS
EAST ST. LOUIS EXPRESSWAY
 I. & N. R. OVER WEST BOUND EXPWAY
 RAMP "L", EAST BOUND EXPWAY AND RAMP "Y"
GENERAL PLAN
 W. W. LECHEMER, INC.
 ENGINEERS
 CHICAGO, ILLINOIS
 DATE JULY 1960
 SHEET NO. 1-A

FILE NAME: DBTR1-76C52-SHT-LNRRB-1dgs.01.dgn
 PLOT SCALE = 2.0000' / in.
 PLOT DATE = 1/23/2012

USER NAME = sear-sh	DESIGNED -	REVISED -
	DRAWN - GF	REVISED -
	CHECKED - DD	REVISED -
	DATE - 07/21/10	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLAN - L&N RR BRIDGE 01
 SCALE: NONE
 SHEET NO. 2 OF 26 SHEETS
 STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64/998/70	82-1-(A), 82-1-(B)	ST. CLAIR	629	448
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				