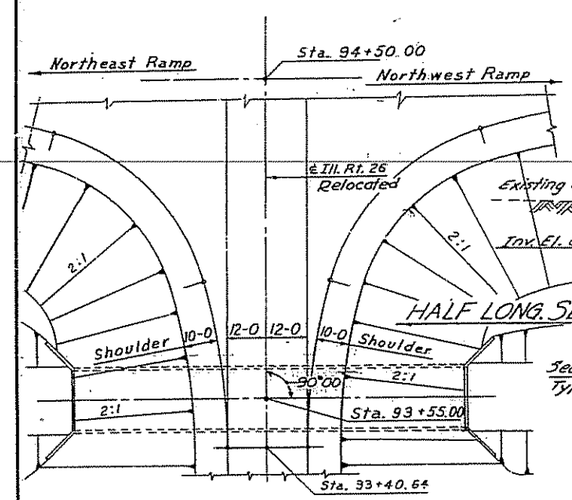
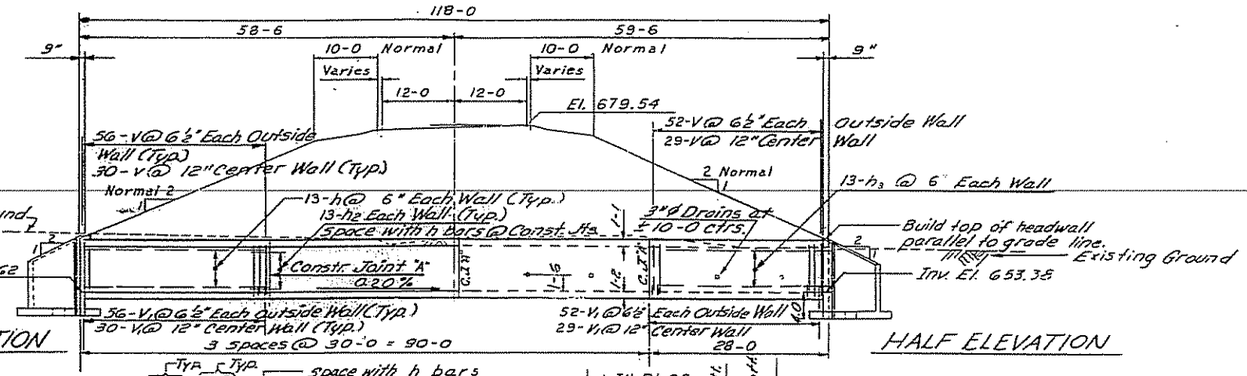
FEDERAL-AID ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. Rt. 80	06-5HB	BUREAU	50	24
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

Location of "h" bars	30-0 Panel		28-0 Panel		Ea. Const. Jt.	
	No.	Bar	No.	Bar	No.	Bar
Top of Top Slab	24	h	24	h_3	24	h_2
Bott. of Top Slab	24	h	24	h_3	24	h_2
Each Outside Wall	13	h	13	h_3	13	h_2
Center Wall	13	h	13	h_3	13	h_2
Top of Bott. Slab	30	h	30	h_3	30	h_2
Bott. of Bott. Slab	30	h	30	h_3	30	h_2

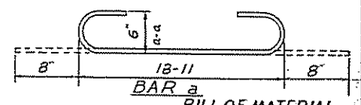


LOCATION PLAN



HALF LONG. SECTION

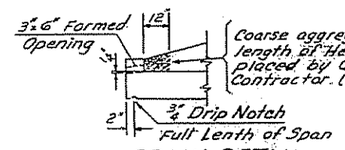
HALF ELEVATION



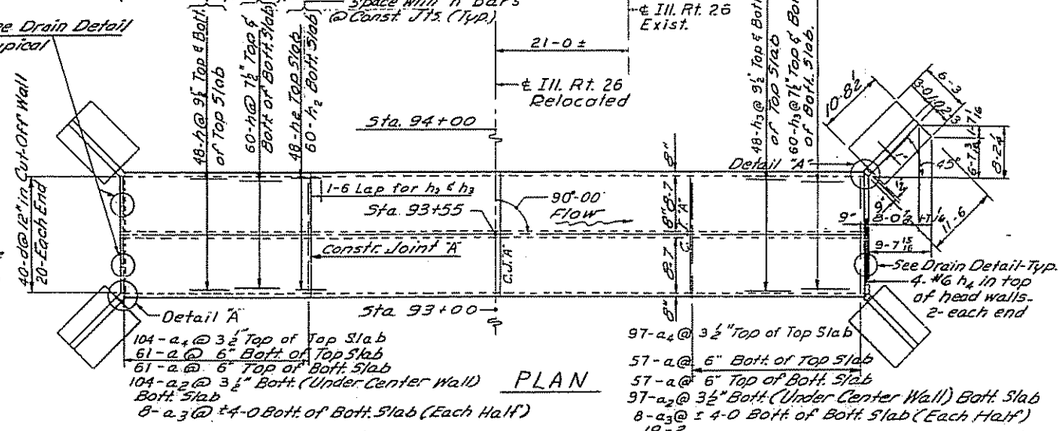
BAR a

BILL OF MATERIAL

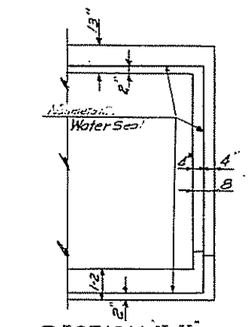
Bar	No.	Size	Length
a	480	#6	20-3
a_2	409	6	7-6
a_3	64	4	6-6
a_4	409	6	18-8
d	40	4	5-6
h	441	5	29-6
h_2	441	5	3-0
h_3	147	5	27-6
h_4	4	6	19-3
h_5	48	4	10-3
n	48	7	4-4
t	88	5	5-9
v	559	4	7-3
v_1	559	4	3-0
v_2	8	6	10-6
v_3	8	6	10-0
v_4	8	6	9-3
v_5	8	6	8-6
v_6	8	6	8-0
v_7	8	6	7-3
v_8	4	4	10-6
v_9	4	4	9-9
v_{10}	4	4	8-6
v_{11}	4	4	7-3
w	24	5	10-3
z	88	5	5-9



DRAIN DETAIL

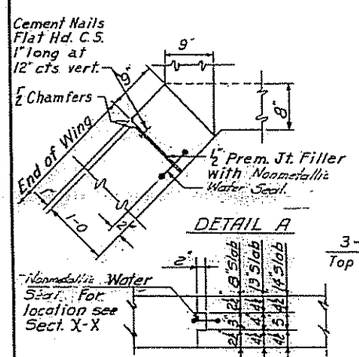


PLAN



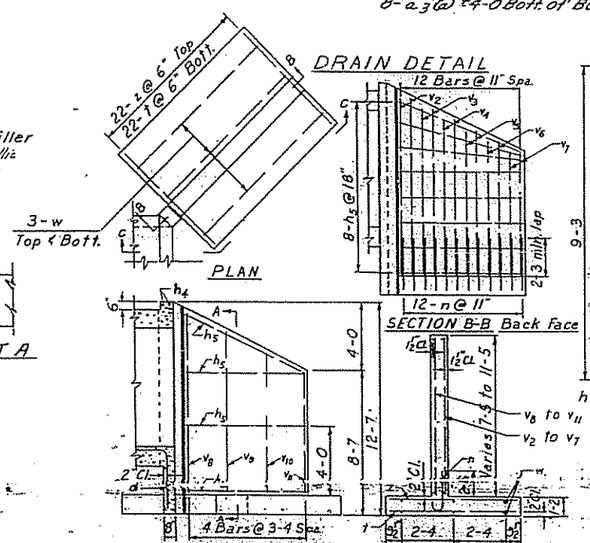
SECTION X-X
Location of Nonmetallic Water Seal

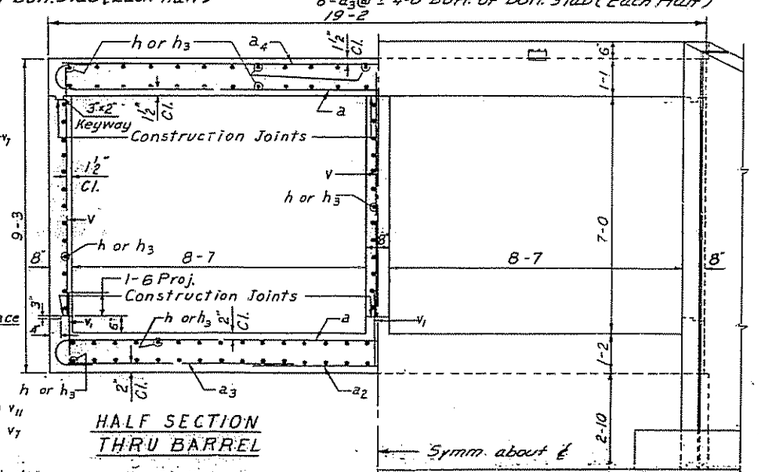
Class "X" Concrete	C.Y.	280.2
Reinforcement Bars	Lbs.	57,008



DETAIL A

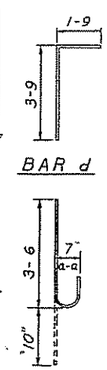
DETAIL OF CONST. JOINT A





HALF SECTION THRU BARREL

HALF END ELEVATION



BAR d

BAR n

Class "X" Concrete shall be used thru-out. Exposed edges shall be beveled ¾" except as shown. For back filling and embankment see Standard Specifications.

All bars shall be lapped 20 diameters unless otherwise shown.

The top of the culvert, the backs of the exterior walls above the lower construction joint and backs of the wings above the tops of the footings shall be waterproofed in accordance with the Standard Specifications, Article 51.21.

DESIGN STRESSES

f_s = 20,000 p.s.i. Reinforcement
f_c = 1,000 p.s.i. for Wing Walls
f_c = 1,400 p.s.i. for Slabs & Sidewalls
n = 10

LOADING H-20-S16

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BLDGS.
DIVISION OF HIGHWAYS

DOUBLE 8'-7" x 7' BOX CULVERT

AT STATION 93 + 55

ON ILL. ROUTE 26 RELOCATED

F.A.I. Rt. 80 BUREAU CO. SECTION 06-5HB

H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET OF

Designed by - - - C.E.B.
Drawn by - - E.F. & C.E.B.
Checked by - - - W.J.F.

FEDERAL-AID ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. Rt. 80	06-5HB	BUREAU	50	24
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

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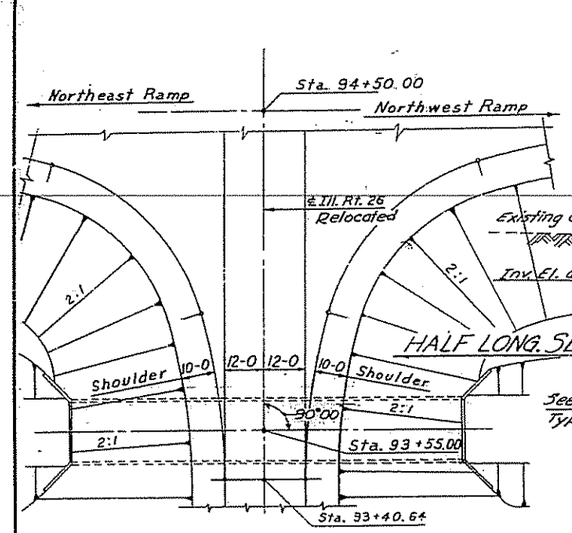
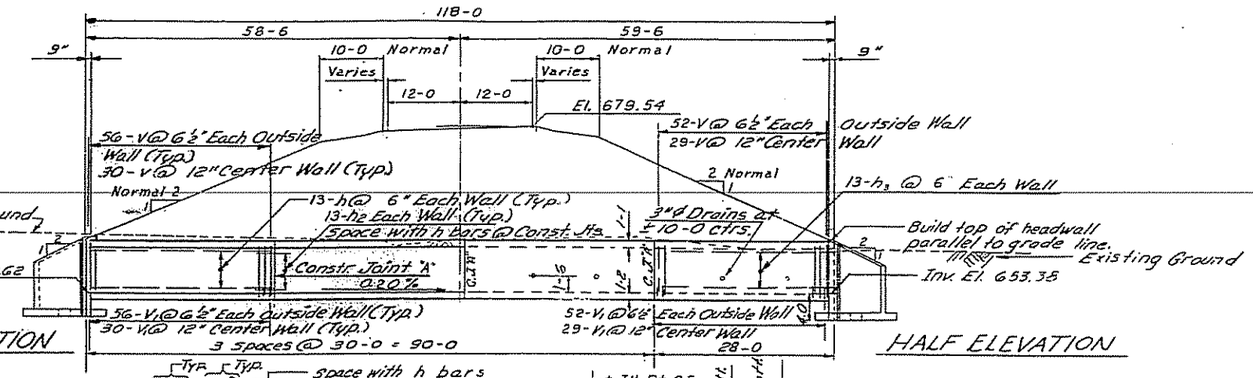
Bott. of Bott. Slab	30	h	30	h_3	30	h_2

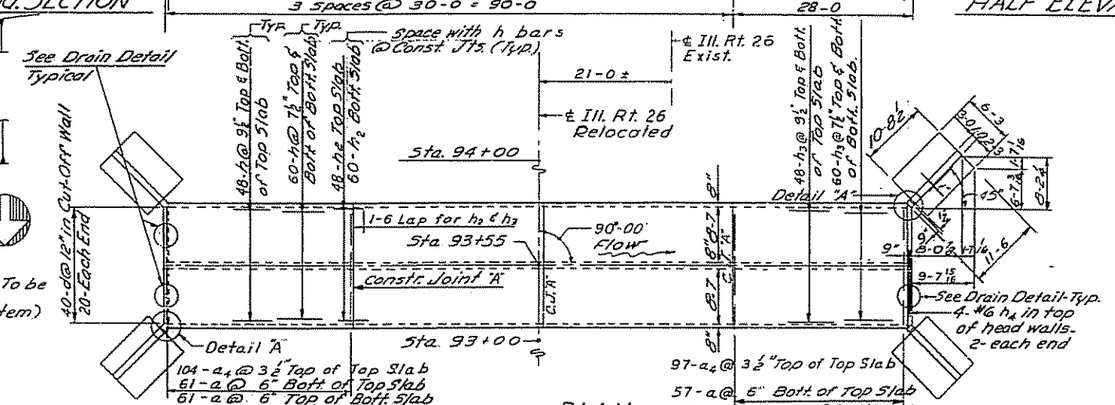


LOCATION PLAN

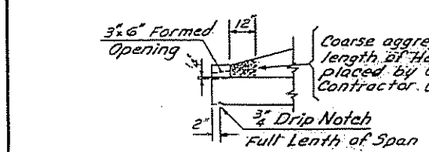


HALF LONG. SECTION

HALF ELEVATION



PLAN



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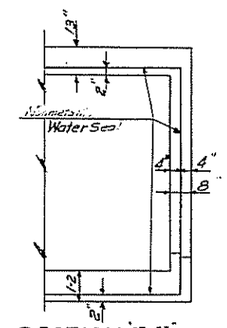

SECTION X-X
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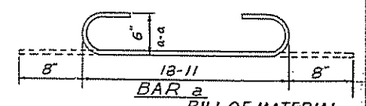

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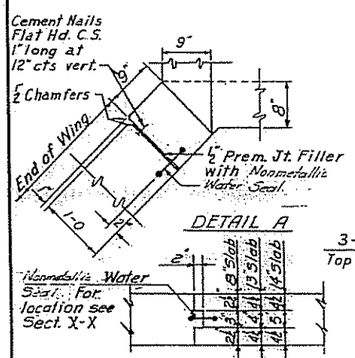

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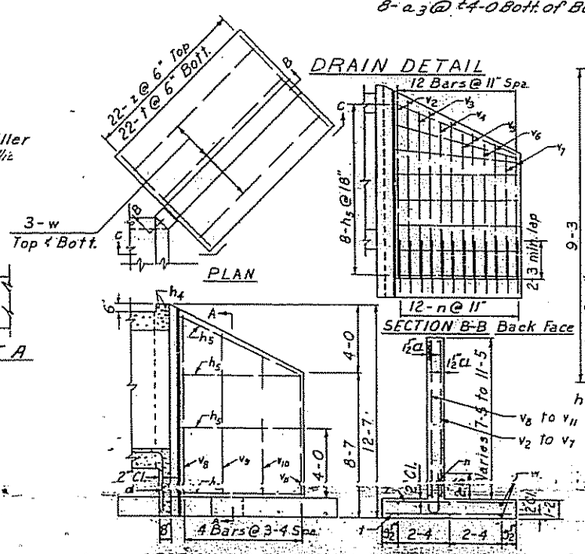
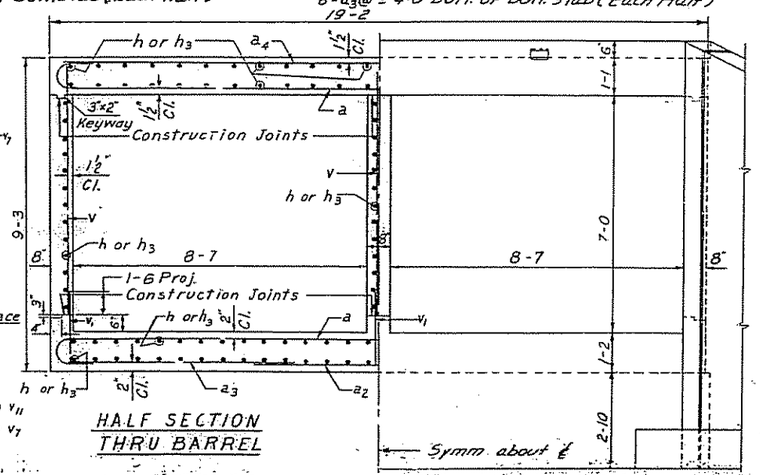
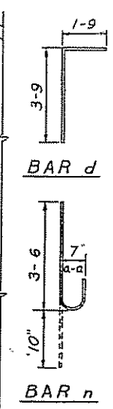


WING WALL DETAILS TYPICAL



HALF SECTION THRU BARREL

HALF END ELEVATION



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