

101-2025

PLANS FOR PROJECT FEDERAL AID HIGHWAY

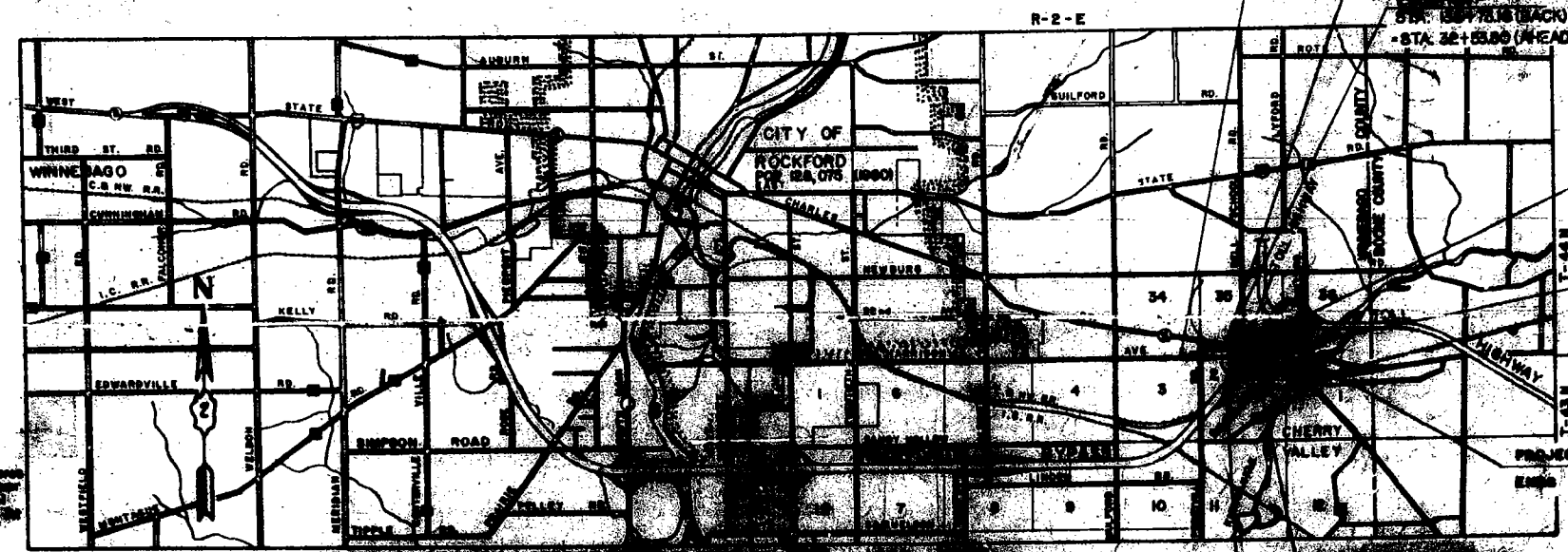
PLAN 1 INCH 100 FT. & 50 FT.
PROFILE, HOR. 1 INCH 100 FT. & 50 FT.
PROFILE, VERT. 1 INCH 10 FT. & 5 FT.
CROSS-SECTIONS 1 INCH 10 FT. & 5 FT.

F.A. ROUTE 194 & F.A.S. ROUTE 1044 SECTION 5 ROCKFORD BYPASS WINNEBAGO COUNTY

PROJECT F.-284 (7)
PROJECT S.-1044-I(I)



LOCATION OF SECTION INDICATED HERE -



OMISSION:
SOUTH SIDE OF
STATE ST. RD.
CHURCHMAN RD.
EDWARDVILLE RD.
KELLY RD.
TICKLE RD.
MILWAUKEE RD.
AT STATION 100+00

PROPOSED IMPROVEMENT APPROVED
ENDS STA. 895+25.00
FOR STRUCTURAL ADDRESS

EQUATION:
STA. 872+36.57
= STA. 50+22.00

PROJECT F.-284(7)
ENDS STA. 70+00

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS
SUBMITTED *[Signature]*
EXAMINED *[Signature]*
PASSED *[Signature]*
APPROVED *[Signature]*
APPROVED *[Signature]*

DEPARTMENT OF PUBLIC WORKS
BUREAU OF PUBLIC WORKS
DIVISION ENGINEER



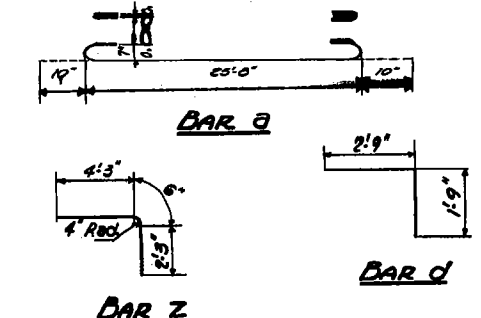
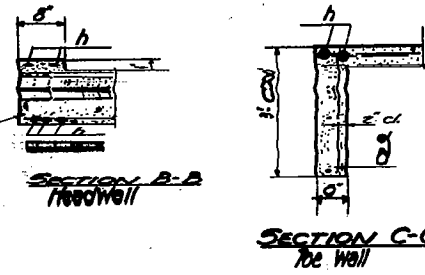
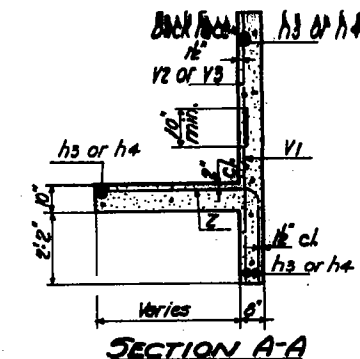
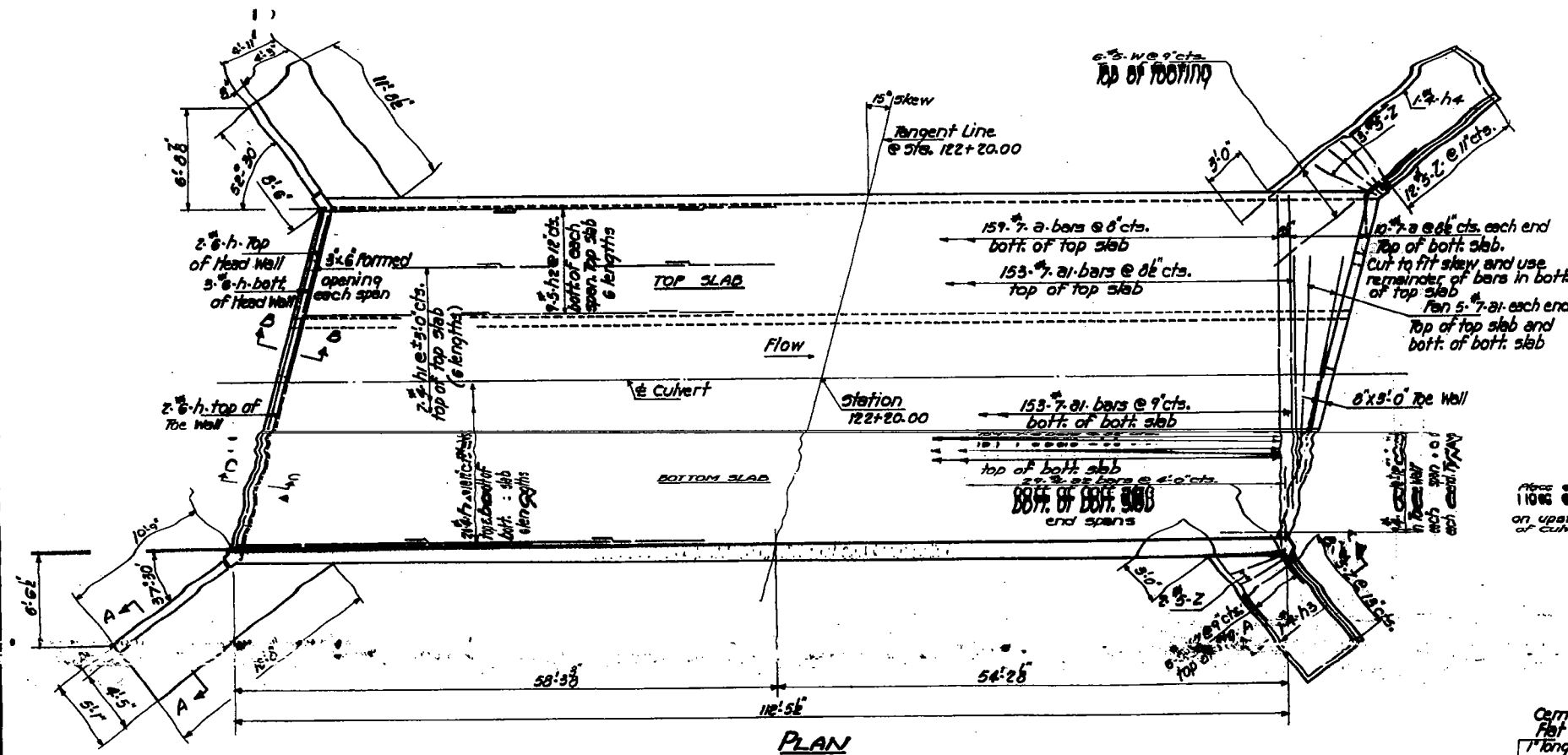
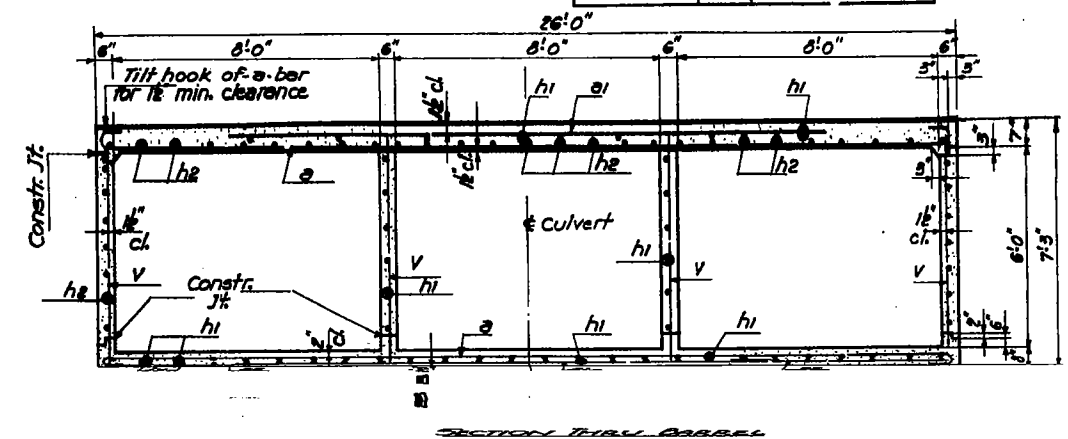
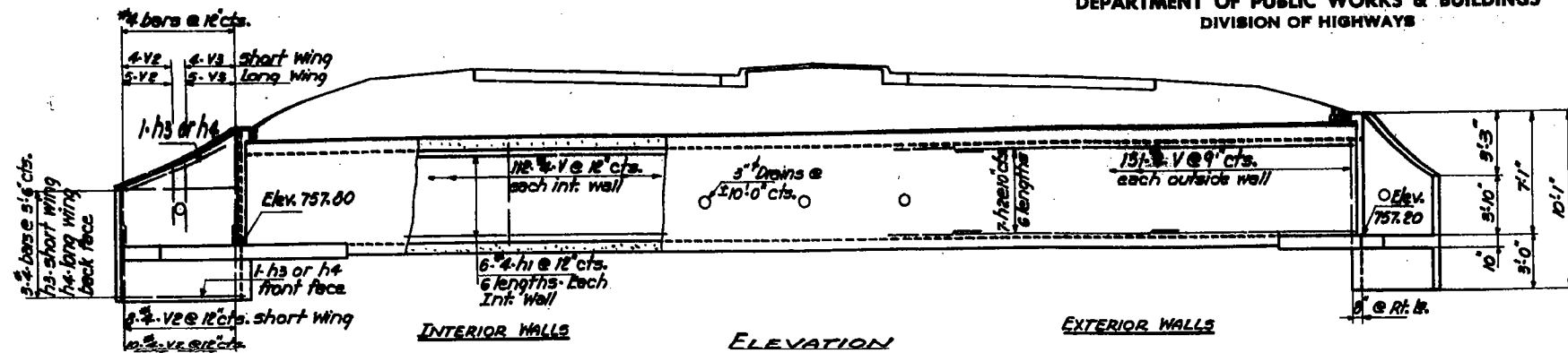
MACCARELLI ENGINEERS & ARCHITECTS

173 WEST WASHINGTON STREET, CHICAGO, ILL.

CLASSIFICATION
F.A. 7-20-30

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	DIST.	COUNTY	TOTAL SHEETS	SHEET NO.
R. & L. 194	5	WINNEBAGO	15	50.
SHEET NO. 2				
3 SHEETS				



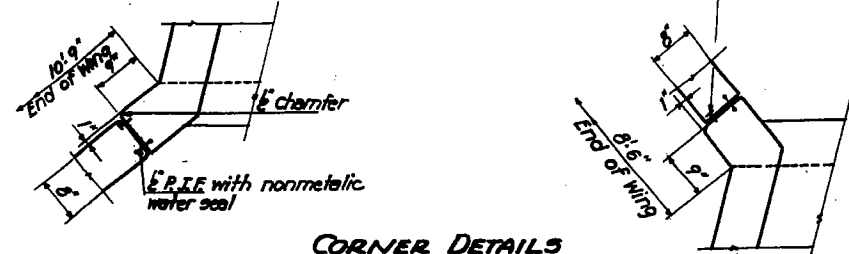
BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
1	350	#7	27'6"	CD
2	318	#7	17'0"	—
3	50	#4	5'6"	—
4	14	#8	26'6"	—
5	28	#8	17'6"	—
6	28	#8	19'9"	—
7	18	#4	7'9"	—
8	528	#4	6'9"	—
9	12	#5	16'3"	—
10	12	#5	11'6"	—
11	50	#5	7'0"	—
Class X Concrete Cyls. 20% C				
Reinforcement Bars Lbs. 44080				

DESIGNED *Walter Perry*
CHECKED *R. Kowal*
DRAWN *W. P. M. Miller*

EXAMINED *H. G. Baumann*
PASSED *[Signature]*
APPROVED *[Signature]*

MAR 11 1923



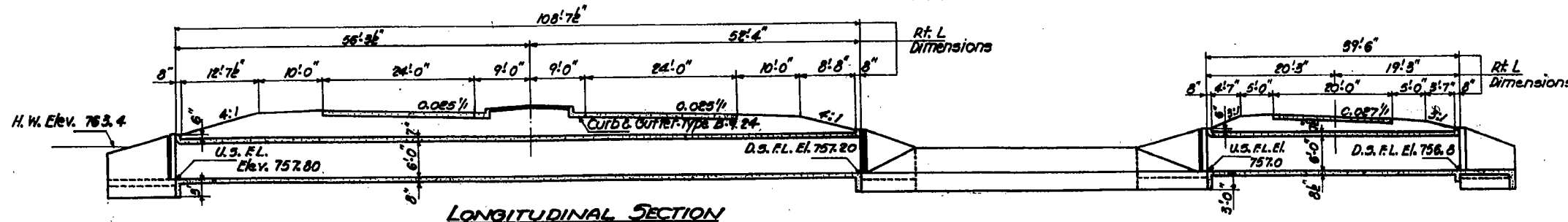
HARRISON AVE. CULVERT
F.A.S. R. 1044- SEC. 5

B.M. Spike & Washer in roof of 14' Elm, 95' Rt Sta. 112+40. Elev. 799.20
 B.M. "a" Cut in End Conc. Hdwl. Lt. Sta. 25+10 (Rte. 5)
 Elev. 766.66

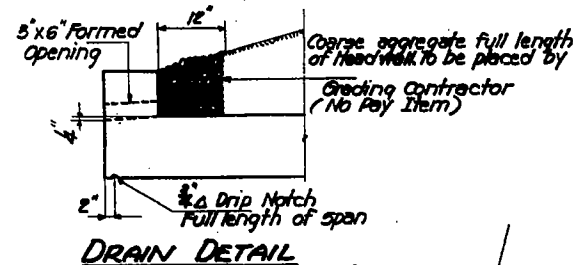
STATE OF ILLINOIS
 DEPARTMENT OF PUBLIC WORKS & BUILDINGS
 DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	SHEET NO.	TOTAL SHEETS
5	WINNEBAGO	131	51

SHEET NO. 1
 3 SHEETS



LONGITUDINAL SECTION



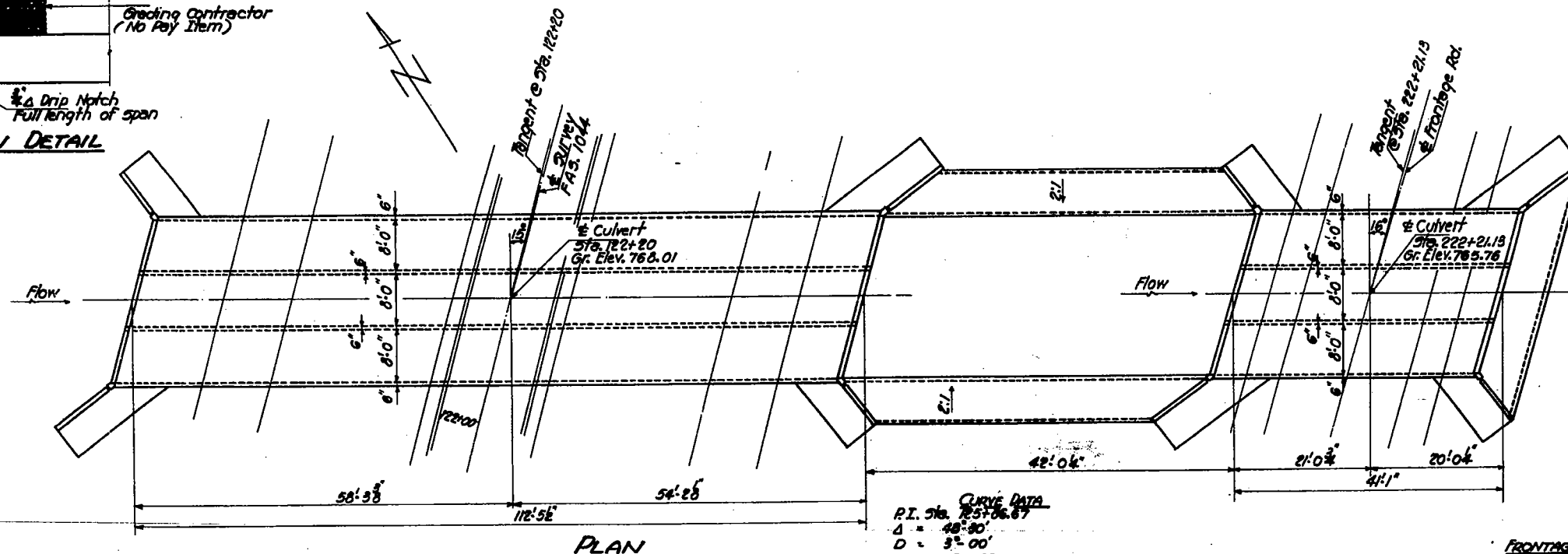
Survey F.A.S. 1044
 Station 122+20

Frontage Road
 Sta. 222+21.13

Proposed channel
 Alignment

PROPOSED CHANNEL CHANGE

WATERWAY INFORMATION
 Drainage Area 2850 Acres
 Character--Rolling Clay Cultivated
 Reg'd. Opening (50 Yr. Flood) 144 Sq. Ft.
 Proposed Opening 144 Sq. Ft.



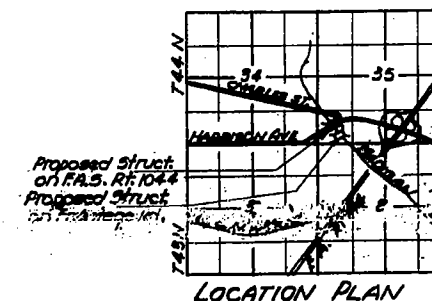
PLAN

GENERAL NOTES

Class-X Concrete shall be used throughout.
 Exposed surfaces shall be finished as shown.
 For location and dimensions, see standard specifications.
 All bars shall be lapped to diameters unless otherwise shown.
 The top of the concrete shall be finished with a 6\"/>

CURVE DATA
 P.T. Sta. 125+06.67
 Δ = 48° 30'
 D = 32' 00'
 R = 190.08
 T = 860.37
 L = 1848.87
 E = 104.06
 S = 0.025%
 Remove Crown and Attain Super:
 Station 116+76.3 to station 117+76.3
 Station 133+93.0 to station 132+93.0

FRONTAGE ROAD CURVE DATA
 P.T. Station 225+33.83
 Δ = 48° 30'
 D = 32' 11\"/>



LOCATION PLAN

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Class-X Concrete	Cu. Yds.	300.0
Reinforcement Bars	Lbs.	62840
Form Plates	Each	1

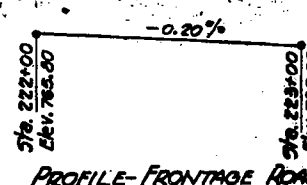
MADISON CREEK
F.A.S. Rt. 1044-SEC. 5
PROJ. 5-1044(10)
WINNEBAGO COUNTY
Sta. 122+20.00 (HARRISON) F.A.S. 1044
Sta. 222+21.13 FRONTAGE ROAD

DESIGNED *Walter Perry*
 CHECKED *R. K. Kowal*
 DRAWN *W. R. M. Miller*
 CHECKED *R.K.*

MAR 11 1963
 EXAMINED *H. G. Bauman*
 PASSED *[Signature]*
 APPROVED *[Signature]*

STATION 122+20.00
 MADISON CREEK
 DUCT 196
 F.A.S. Rt. 1044-SEC. 5
 F.A. PROJ. 5-1044(10)
 LOADING 1120-516

NAME PLATE
 See Standard 2113



PROFILE-FRONTAGE ROAD

DESIGN STRESSES
 1400 lbs. Barrel
 1000 lbs. Wings
 20000 lbs. Reinf.
 75 lbs. Flgs.
 10

Loading 1120-516-44 F.A.S. 1044
 Loading 1115-512-44 Frontage Rd.

ROUTE NO.	DIRECTION	COUNTY	TOTAL CUBIC YD.	SHRUB NO.
FR 194 F. A. B. 1049	5	WINNEBAGO	131	514
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

FRONTAGE ROAD CULVERT
F.A.S. R#1044 - SEC. 5
WINNEBAGO COUNTY
STATION 222+26/3

BILL OF MATERIAL				
BAR	NO.	SIZE	LENGTH	SHAPE
a	124	#7	27'4"	C
a1	98	#7	17'0"	—
a2	22	#4	5'6"	—
c	53	#4	4'6"	L
h	15	#6	26'6"	—
h1	12	#4	19'6"	—
h3	12	#4	7'6"	—
h4	12	#4	9'9"	—
h5	30	#4	20'9"	—
h6	32	#5	21'0"	—
h7	104	#4	24'6"	—
h8	16	#4	20'9"	—
V	164	#4	6'9"	—
V	36	#4	4'0"	—
V2	10	#4	5'6"	—
V3	10	#4	7'0"	—
5	19	#4	3'8"	T
W	12	#5	18'3"	—
W1		#5	11'6"	—
Z	50	#5	7'0"	L
Class-X Concrete			Cu.Yds. 96.2	
Reinforcement Bars			Lbs. 17460	

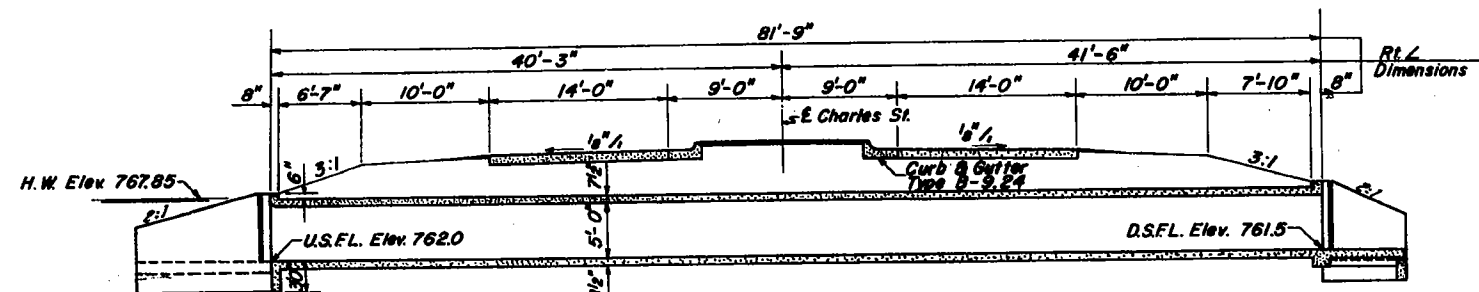
B.M. "a" on Bridge Curb 21' Rt. Station 48+03
Elev. 769.85
Existing Structure: R.C. Slab with 3" I-N,
R.C. Closed Abut. & R.C. Pier
Existing Structure to be removed
No Temporary Bridge required.

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	DISTRICT	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET TOTAL
EA 1044	5	WINNEBAGO	131	52	2 SHEETS
DESIGNED BY: T.B. Fuller					
CHECKED BY: J.B.N.					

GENERAL NOTES

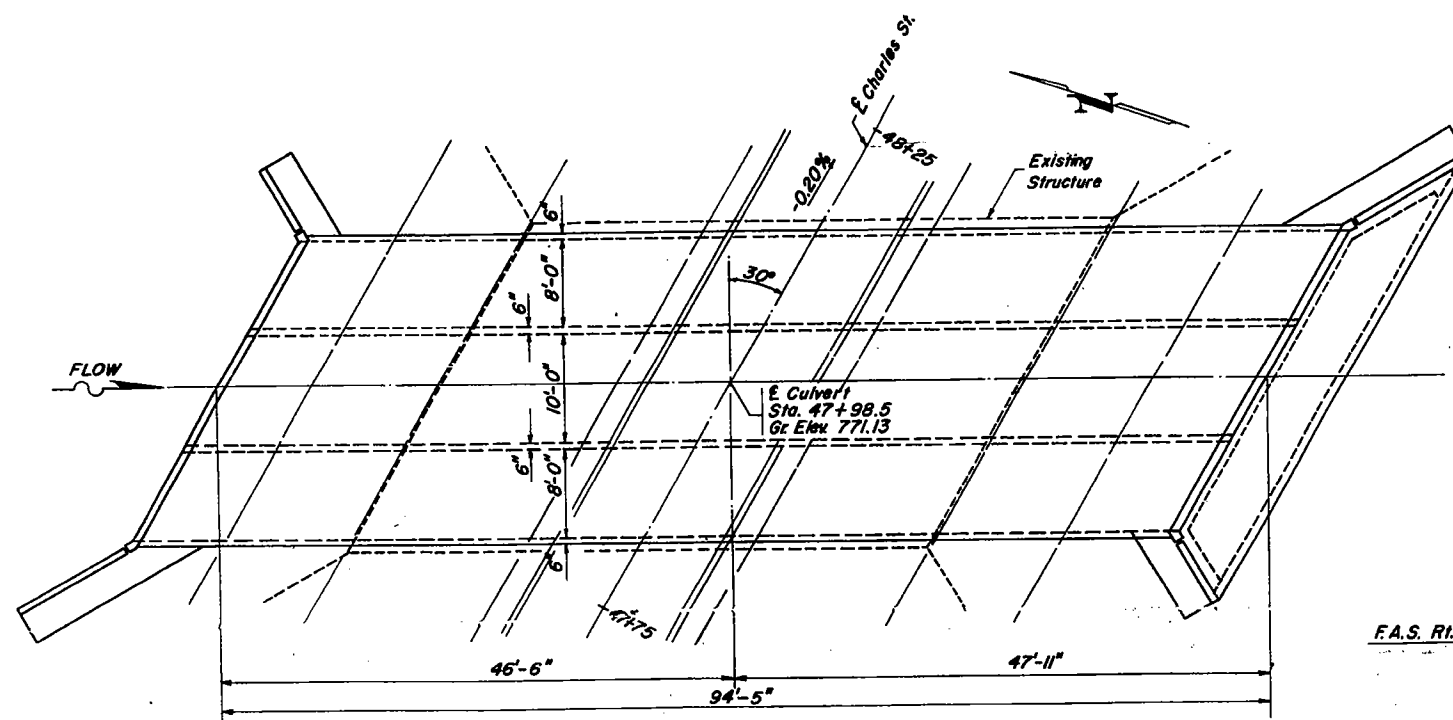
Class X Concrete shall be used thru-out.
Exposed edges shall be beveled $\frac{3}{4}$ " except as shown.
For backfilling and embankment see Standard Specifications.
All bars shall be lapped 20 diameters unless otherwise shown.
The top of the culvert, the backs of the exterior walls above the lower construction joint and backs of the wings above the tops of the footings shall be waterproofed in accordance with the Standard Specifications, Article 51.21.



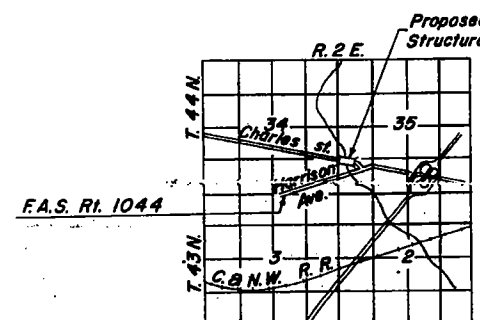
LONGITUDINAL SECTION

STATION 47+98.5
MADIGAN CREEK
BUILT 196
F.A.S. RT. 1044-SEC. 5
F.A. PROJ. S-1044-1(1)
LOADING H20-S16

LETTERING FOR NAME R
See Standard 2113



PLAN



LOCATION PLAN

BILL OF MATERIAL

Class X Concrete	Cu. Yds.	188.9
Reinforcement Bars	Lbs.	38,360
Name Plates	Each	1
Removal of Existing Structure	Each	1

DESIGNED	J. M. Jzworck
CHECKED	J. B. N.
DRAWN	T. B. Fuller
CHECKED	J. B. N.

EXAMINED	MAR 11 1963
PASSED	J. B. N.
APPROVED	J. B. N.

DESIGN STRESSES

f.c. = 1400 psi. Barrel
f.c. = 1000 psi. Wings
f.s. = 20,000 psi. Reinf.
w.c. = 75 psi. Figs.
n = 10
Max. Pressure under Fig. = 1 T/d

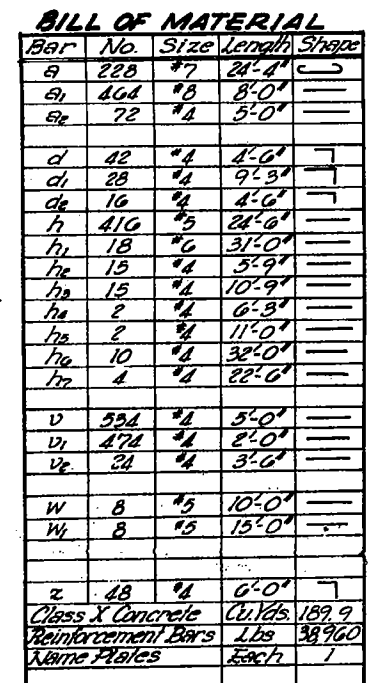
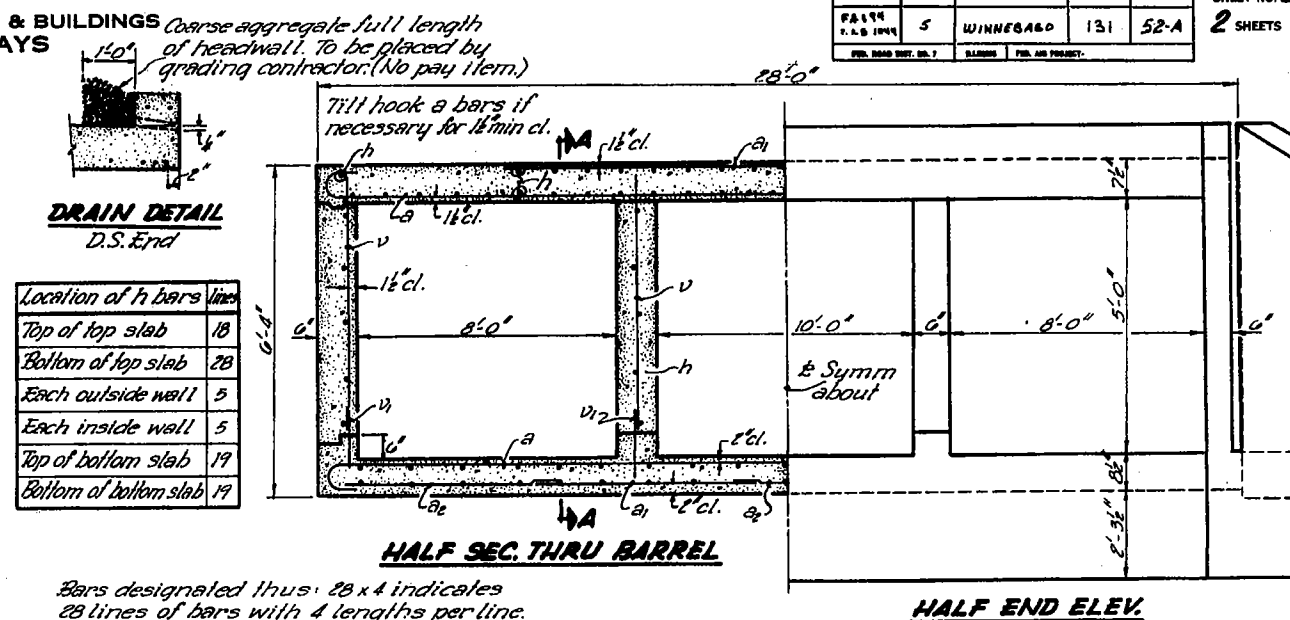
LOADING H20-S16-44

WATERWAY INFORMATION

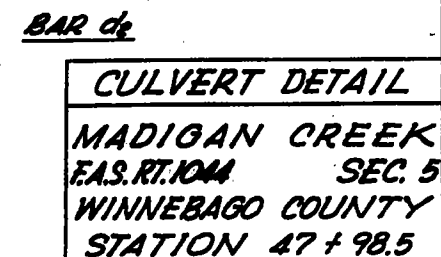
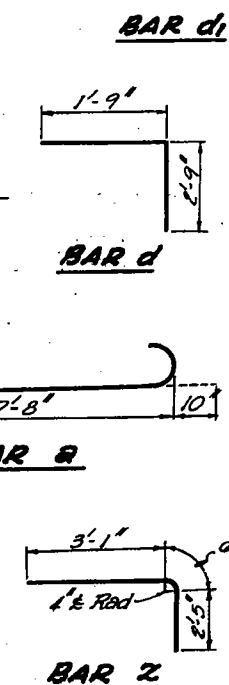
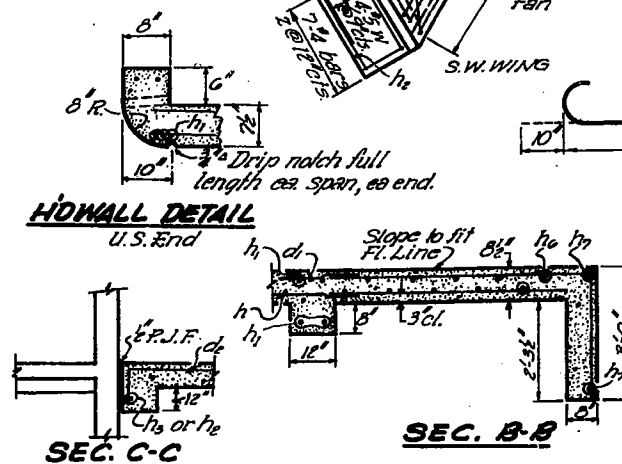
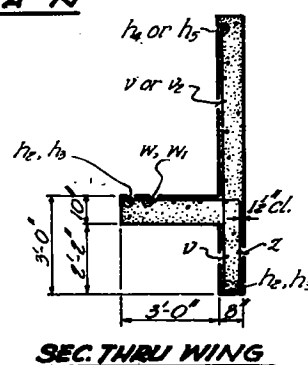
Drainage Area 2,600 Acres
Character Rolling, sand, clay, wooded, cultivated
Required Opening 130 Sq. Ft.
Present Opening 152 Sq. Ft.
Proposed Opening 130 Sq. Ft.

GENERAL PLAN & ELEVATION

PROJ. S-1044-1(1)
MADIGAN CREEK
F.A.S. RT. 1044 SEC. 5
WINNEBAGO COUNTY
STATION 47+98.5



Wing	L	x	y	F	θ
N.E.	6'-9"	3'-4½"	5'-10½"	8'-4"	60°
N.W.	11'-9"	10'-2½"	5'-10½"	17'-3"	30°
S.E.	11'-9"	10'-2½"	5'-10½"	17'-3"	30°
S.W.	6'-9"	3'-4½"	5'-10½"	8'-4"	60°



DESIGNED	J. M. Janssen	EXAMINED	W. C. Bannum
CHECKED	J. B. N.	PASSED	W. C. Bannum
DRAWN	J. M. J.	APPROVED	W. C. Bannum
CHECKED	J. B. N.		