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

DIST. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ALL 2	76 BR	WINNEBAGO	9	4
F.A.	76 BR			

SHEET NO. 1
6 SHEETS

FAP 731 Rte
FAS 732 Rte

Also "B" cut in S.E. corner Ent Step 45° Rt. Tangent Line 145.5'
Existing Structure: 140'-0" thru truss with PCC Abuts 20'
Roadway - To be removed by Contractor for Sec. 76 B-R
Floor beams & stringers to be salvaged for re-erection

144'-3" Bk. to Bk. of Abutments

Steel Spans Unit 2

17'-9" | 17'-9" | 18'-3"

6" space zone

Detail "A"

Exp | Fix | Exp

HW Elev. 741.5

Channel Line Elev. 736.5

Ordinary Flow Elev. 735.5

Streambed Elev. 729.4

Existing 10" Water main

731.5

No Abut
Elev. 736.51
℄ Elev. 736.51

℄ Elev. 726.83

So. Abut.
Elev. 726.38
℄ Elev. 726.38

ELEVATION

Detail "A"

Bk. of Abut.

Cut weld rod grind smooth

For rail details see sheet #5

Lagal R 9"x9"x10'-9" at each rail post

N

Boring #2

Bk. N Abut
Sta. 5+17.69
Cr. El. 746.23

℄ Bridge
Sta. 5+89.82
Cr. El. 746.62

New ℄ 3'-1" Survey Line

3" Mountable Median Strip

Bk. So. Abut.
Sta. 6+61.94
Cr. El. 746.10

Survey Line

Boring #3

Boring #1

70'-4"

70'-4"

144'-3" Bk. to Bk. Abuts

5'-10"

27'-0"

69'-3"-0-0

4'-0"

1'-9½"

27'-0"

+30
43

Elev. 15'-8.5

5.5 to be abandoned

6" Fire hydrant flush pipe

Elev. 737.79
Elev. 740.48

Elev. 737.79
Elev. 740.79

Elev. 737.79
Elev. 740.79

200' V.C.

+2.00%

-1.28½%

GRADE LINE

PLAN

℄ Bridge

℄ 10" Water main

5 Sheet piling. See Special Provisions

Existing building line

BORING DATA

BORING #1
Station 6+73
15 Ft. Rt. ℄

N	Qu	Ground Surface 744.1
3		Loose brown silty sand and gravel
4		Soft black silty gravely clay
7		Loose brown silty sand and gravel
17		Medium brown sub-angular well graded gravel
21		Dense brown sub-angular well graded gravel
25		Very dense gray fine sand.
21		Medium brown sub-angular well graded gravel
8		Loose brown sub-angular poorly graded gravel
24		Medium brown sub-angular poorly graded gravel
31		Dense brown sub-angular poorly graded gravel
17		Medium brown sub-angular sand and gravel
37		Dense brown sub-angular well graded gravel

BORING #2
Station 5+00
27 Ft. Lt. ℄

N	Qu	Ground Surface 744.5
17		Medium brown silty sand & gravel
7		Loose black silty sand
18		Loose black clayey silt & wood fiber
25		Dense brown sub-angular well graded gravel
21		Medium brown sub-angular well graded gravel
25		Dense brown sub-angular well graded gravel
27		Very dense brown sub-angular well graded gravel.

BORING #3
Station 5+87
7 Ft. Rt. ℄

N	Qu	Ground Surface 731.6
55		Very dense brown angular coarse gravel
47		Dense brown angular well graded gravel
56		Medium brown poorly graded sub-angular gravel
54		Dense brown angular well graded gravel

N = Blows per foot
Qu = Unconfined compressive strength in Tons per Sq. Ft.

TOTAL BILL OF MATERIAL

ITEM		SEC. A	SEC. B
Name Plate	Each		1
Metal Handrail	Lin. Ft.	343	343
Structural Steel	Lbs.	344,830	344,830
Class X Concrete	Cu. Yds.		391.6
Class A Concrete	Cu. Yds.		138.9
Reinforcement Bars	Lbs.		74,700
Expansion Bolts	Each		10
Class A Excavation for Structures	Cu. Yds.		570
Class B Excavation for Structures	Cu. Yds.		1770
Removal of Exist. Str.	Each		1
Steel Sheet Piling	Sq. Ft.		660
Steel Cored Concrete	Cu. Yds.		None

GENERAL NOTES

Class X Concrete shall be used throughout except in Pier.
Class A Concrete shall be used in Pier.
The Concrete Floor Slab shall be finished in accordance with Article 51.18(a) of the Standard Specifications.
For Expansion Bolts see Special Provisions.
The back of the Abutments and wing walls shall be waterproofed from the top of the footing to Elevation 748.0 Waterproofing shall be done in accordance with Article 51.30 of the Standard Specifications.

STATION 5+89.82
BUILT 1955 BY
STATE OF ILLINOIS
S.B.I. RT. 2 SEC. 76 B-R
F.A. PROJ. F-142(29)
LOADING H20-S16

NAME PLATE

See Std. 2113

DESIGN STRESSES

f_s = 18,000#/in² Struct. Steel
f_s = 20,000#/in² Reinf.
f_c = 1,400#/in² Super.
f_c = 800#/in² Substr.
n = 10
Bearing Pressure 1.7 Tons/sq.ft. - Abuts.
" " 3.0 " " - Pier.
LOADING H20-S16-44

WATERWAY INFORMATION

Drainage Area	160,000 Acres
Character	
Opening Req'd	1040 Sq. Ft.
Present Opening	1030 Sq. Ft.
Proposed Opening	1033 Sq. Ft.

Pressure Relief

LOCATION SKETCH

DESIGNED	K. Oshunkle
CHECKED	W.L. Crews
DRAWN	K.O. S.L. Zych
CHECKED	H.O.

APRIL 9 1957

DRAWING — W. L. Kramine, Engineer of Bridges and Structures
PLANS — E. L. Conley, Engineer of Design
APPROVED — R. L. Bastian, Director of Highways

Revised for Painting Seal Coat Added 4-16-57 4-17-57

GENERAL PLAN & ELEVATION

TURTLE CREEK BRIDGE
S.B.I. RT. 2 SEC. 76
WINNEBAGO COUNTY
PROJECT F-142(29)
STATION 5+89.82

FOR INFORMATION ONLY

FILE NAME = O:\BR\Bridge Painting\Contracts\PAINTING\64G88\PLANeng.dgn	USER NAME = linkdj	DESIGNED - ___	REVISED - ___
		DRAWN - ___	REVISED - ___
	PLOT SCALE = 50.0000 ' / IN.	CHECKED - ___	REVISED - ___
	PLOT DATE = Sat Jan 22 07:09:23 2011	DATE - ___	REVISED - ___

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Existing Bridge Plans
Structure No. 101-0003

SCALE: ___ | SHEET NO. __ OF ___ SHEETS | STA. ___ TO STA. ___

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	var D2 Bridge Painting 2011-2		25	23
			CONTRACT NO. 64G88	
		ILLINOIS	FED. AID PROJECT	