

B.M. on N.W. Corner of E. Abutment of Existing Bridge Elev 642.08
Existing Structure - R.C.D.G. 1 Span @ 60' with 19' Roadway on R.C. closed Abutment.
to be removed by Contractor. (No salvage)

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

DATE	SECTION	COUNTY	FEET	FEET	SHEET NO.
5-11-27	444B	JO DAVIESS	373	30	11 SHEETS
F.A.P. PROJ. F-240(5)					

HORIZ CURVE DATA

E.B. Lane	W.B. Lane
A = 31'-27"	A = 34'-21"
D = 2'-30"	D = 2'-30"
R = 2292.01'	R = 2292.01'
T = 645.33'	T = 708.40'
L = 1258.00'	L = 1374.00'
E = 89.12'	E = 106.98'
Max. S.E. = 0.045% both curves	
Full S.E. Both structures	

APPROACH PILE DATA

West Abutment
Type: Crossed Timber
Est. Length 20'-0"
No. Required 12

APPROACH PILE DATA

East Abutment
Type: Crossed Timber
Est. Length 20'-0"
No. Required 12

DESIGN STRESSES

f _c = 1400 p.s.i.	Super
f _s = 75 p.s.i.	Pier Footings
f _s = 20000 p.s.i.	Reinforcement
f _s = 18000 p.s.i.	Struct.
n = 10	

Max. Footing Pressure 2.6 7/8
Average Footing Pressure 1.6 7/8

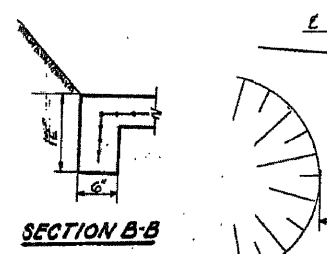
WATERWAY INFORMATION

Drainage Area ----- 7025 Acres
Character ----- 1/4" clay wooded cut
Required Opening ----- (35 yr Flood) 500 Sq Ft
Present Opening ----- 534 Sq Ft
Proposed Opening ----- 500 Sq Ft

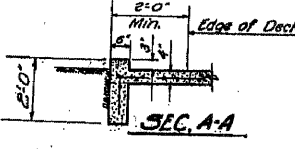
Ordinary Water Elev. 628.2
Low Water Elev. 627.7

STATION 318 + 30
BUILT 19 BY
STATE OF ILLINOIS
S.B.I. RT. 5 SEC. 44-B
E.A. PROJ. F-240(5)
LOADING HS 20-44

NAME PLATE LETTERING
See Standard 2113-1



DESIGNED	Tom A. Smith	EXAMINED	Dec 4 11 59
CHECKED	T. Tanaka	PASSED	
DRAWN	Tom A. Smith	APPROVED	
CHECKED	T. Tanaka		

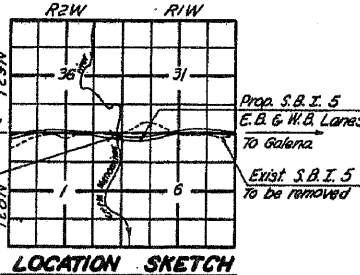


PLAN
Scale 1" = 16'-0"

Note:
See Sheet # 2 for
I.C. Data and
Site Plan.
See Sheet # 11
for Boring Data.

GENERAL NOTES

Class X Concrete shall be used throughout
Coarse aggregate to be used in parapet
handrails and end post must be absolutely free of
chert, flint, limestone, lignite & soft sandstone.
The concrete floor slab shall be finished in ac-
cordance with Article 519 of the Standard Specifications.
Slope Wall shall be reinforced with welded wire
fabric 6"x6" mesh, #4 wires, weighing 38# per 100 Sq Ft.
Layout of slope walls may be varied to suit
ground conditions in the field as directed by the Engineer.
Holes shall be prepared for piles driven in embank-
ment in accordance with Article 60.9(a) of the Standard
Specifications.
Rivets #4 Open holes 3/4" unless noted.
All structural steel shall comply with
specifications for steel A.S.T.M. Designation A36.
All bolsters, rockers, bearing plates, lead plates,
pintles and anchor bolts shall be fabricated and set in
accordance with Article 515 of the Standard Specifi-
cations, and are included in quantity of structural steel.
Anchor bolts shall be set before fastening diagrams
over supports.
The following surfaces of expansion guards shall be
given two shop coats of red lead paint, outside face of vertical
legs and top face of horizontal legs of 4"x4"x1/2"
Expansion guards shall be fabricated and erected in
accordance with Article 513 (a) of the Standard Specifications.
Expansion guards are included in quantity of Struc-
tural Steel Est. Weight 3370 lbs.
Except as otherwise provided, all structural steel
shall receive one shop coat of red lead paint and two field
coats of aluminum paint. See Article 56.1 to 56.5 inclusive
of the Standard Specifications.
All paint shall be furnished and applied by the
Contractor.
The Contractor shall drive 4 test piles in per-
manent locations as directed by the Engineer before
ordering remainder of piles. (One each Steel test pile
at East and West Abutments of North and South structures.
Permanent forms will not be permitted in
forming the concrete slab.



TOTAL BILL OF MATERIAL - SEC. 44-B

Item	Units	Superstr	Substr	Total
Class X Concrete	Cu. Yds.	455.4	735.3	1190.7
Bridge Seat Sealant	Lump Sum			1.8
Reinforcement Bars	Lbs.	103,250	44,500	147,750
Structural Steel	Lbs.	455,200		455,200
Steel Piles (H.B.P.)	Lin. Ft.		1560	1560
Steel Test Piles (H.B.P.)	Each		4	4
Crossed Timber Piles	Lin. Ft.			480
Class A Excavation for Str.	Cu. Yds.		642	642
Class B Excavation for Str.	Cu. Yds.		433	433
4' Slope Wall	Sq. Yds.			1697
6" Slope Wall	Sq. Yds.			2739
Aluminum Handrail	Lin. Ft.		782	782
Name Plates	Each			2
Removal of Existing Str.	Each			1
Temporary Bridge	Each			1
Rock Excavation	Cu. Yds.		34	34
Protective Coat	Sq. Yds.			1690

* Applied at Abutment seats.
** Includes excavation for slope wall

GENERAL PLAN & ELEVATION
LITTLE MENOMINEE RIVER
PROJ. F-240(5)
S.B.I. RT. 5 SEC. 44(B)
JO DAVIESS COUNTY
STA. 318 + 30