

RIPRAP AT ABUTMENT

WATERWAY INFORMATION

ITEM	UNIT	SUPER.	SUBSTR.	TOTAL
STRUCTURE EXCAVATION	CU YD.	734.8	477	477
CLASS "X" CONCRETE	CU YD.	1,058.2	1,793.0	1,793.0
STRUCTURAL STEEL	LUMP SUM	1	1	1
REINFORCEMENT BARS (EPOXY COATED)	LBS.	87,540	104,980	192,520
CONCRETE PILES	LIN. FT.	113,400	6107	6109
TEST PILES CONCRETE	EACH	5	5	5
STUD SHEAR CONNECTORS	EACH	6,036	6,036	6,036
NEOPRENE EXPANSION JOINT, 2"	LIN. FT.	107	107	107
NEOPRENE EXPANSION JOINT, 2 1/4"	LIN. FT.	716	716	716
FLOOR DRAINS	EACH	2	2	2
PROTECTIVE COAT	SO. YD.	3,441	3,441	3,441
ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	10	10	10
ELASTOMERIC BEARING ASSEMBLY, TYPE II	EACH	10	10	10
COFFERDAM	EACH	4	4	4
SEAL COAT CONCRETE	CU YD.	408	408	408
COFFERDAM EXCAVATION	CU YD.	8,408	8,408	8,408

TOTAL BILL OF MATERIAL

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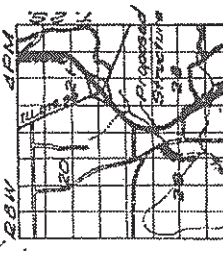
STATION 181+30.0  
BUILT 1988 BY  
STATE OF ILLINOIS  
F.A. ROUTE 408 SEC. 1-4B-1  
F.A. PROJ. NO. FFD-408-155  
LOADING HS20  
STR. NO.

NAME PLATE

See Std. 2113  
(Str. No. to be furnished by Eng.)

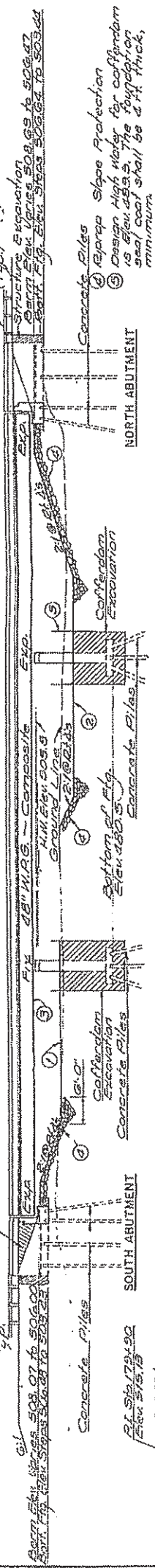
GENERAL PLAN & ELEVATION  
F.A. RTE. 408 OVER MILL CREEK  
F.A. RTE. 408 SEC. 1-4B-1  
ADAMS COUNTY  
STA. 181+30.00 F.A. 408  
PLANS PREPARED BY AMERICAN ENGINEERING CO.

LOCATION SKETCH



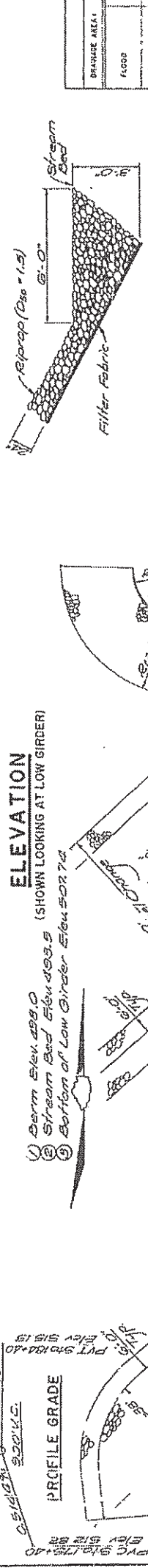
DEPARTMENT OF TRANSPORTATION

This portion of Embankment backfill by Bridge Contractor after Abutment is in place.

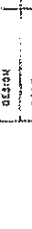


ELEVATION

(SHOWN LOOKING AT LOW GIRDER)



RIPRAP ANCHOR DETAIL



RIPRAP ANCHOR DETAIL

DESIGN STRESSES

f<sub>c</sub> = 4,500 p.s.i. - Concrete  
f<sub>s</sub> = 20,000 p.s.i. - Reinforcing Steel (Concrete Steel Only)  
f<sub>s</sub> = 20,000 p.s.i. (AASHTO) - Reinforcing Steel (Substructure Only)  
f<sub>c</sub> = 4,000 p.s.i. - Concrete  
f<sub>s</sub> = 20,000 p.s.i. - Reinforcing Steel (Substructure Only)  
f<sub>c</sub> = 50 p.s.i.

CURVE DATA

P.C. Sta. 181+71.55  
P.T. Sta. 181+71.55  
C = 800.00  
D = 28.6479  
T = 2495.98  
L = 4106.41  
E = 934.79  
S = 0.60%

DESIGN LOADING HS20-44

Allow 25% p.s.f. for future wearing surface design specifications 1979 AASHTO and Interims 1978, 1979 & 1980.

DESIGNED: SLM  
CHECKED: MVM  
DRAWN: RBY  
CHECKED: MVM 5/80

AS REVISED

10 Revised 2-27-01 1 141