

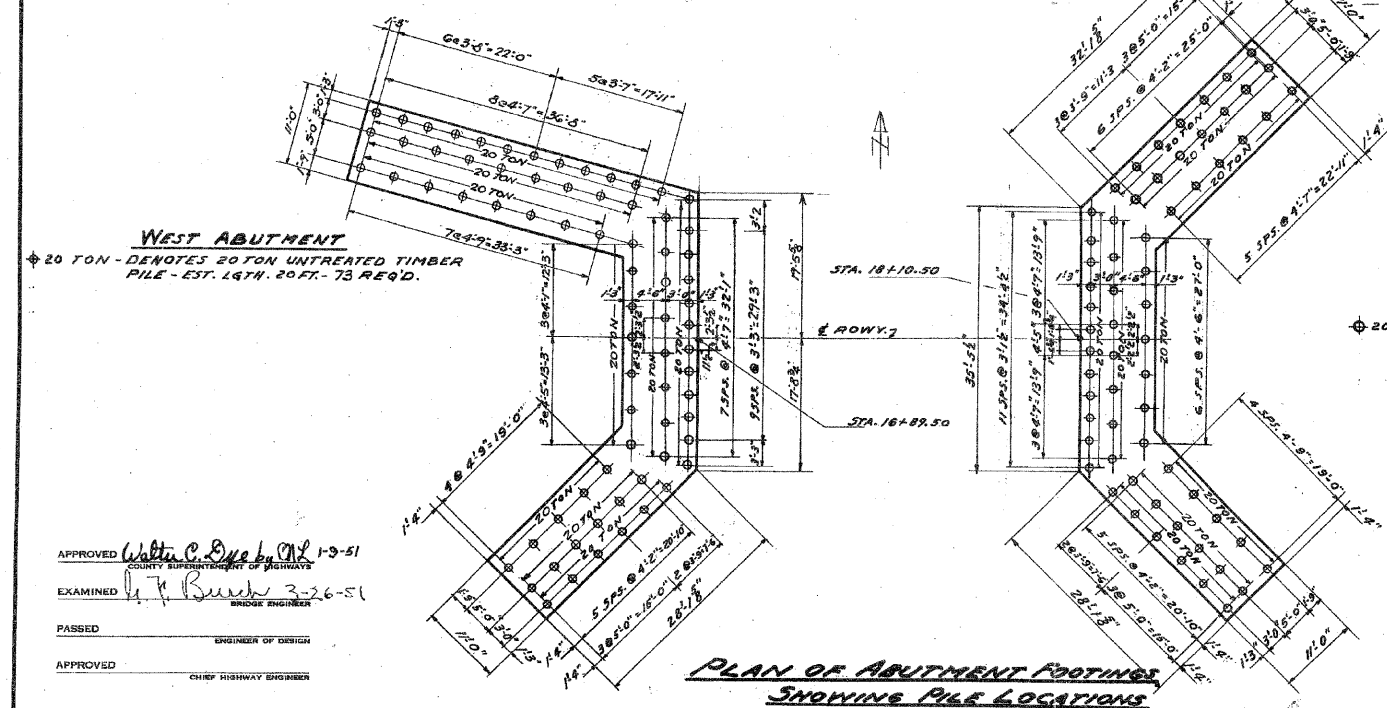
BAR V21

BAR SIZE	A	B	C	LGTH	D
A23	3'3"	2'3"	1'7"	5'6"	1'7"
A24	2'8"	2'0"	2'0"	4'9"	6'2"
A25	2'11"	2'1"	2'0"	5'0"	6'2"
A26	3'2"	2'1"	1'5"	5'3"	1'5"
A27	1'4 1/2"	1'1 1/2"	1'1"	2'3"	3'6"
A28	2'6"	9"	6'8"	3'3"	6'3"
A29	4'3"	4'0"	2'10"	8'9"	2'10"
A29	6'3"	4'0"	2'10"	10'5"	2'10"

BARS A23 TO A29 INCL. & V18 & V19

BILL OF MATERIAL-2 ABUTMENTS

BAR	NO.	SIZE	LENGTH	SHAPE	BAR	NO.	SIZE	LENGTH	SHAPE
A5	8	3"	22'-0"		V7	10	3"	17'-0"	
A6	2	3"	22'-6"		V8	4	3"	17'-6"	
A7	6	3"	23'-3"		V9	3	3"	12'-9"	
A8	10	3"	20'-0"		V10	4	3"	14'-6"	
A9	6	3"	20'-3"		V11	5	3"	15'-9"	
					V12	5	3"	17'-3"	
A11	25	3"	22'-0"		V13	10	3"	18'-9"	
A12	6	3"	18'-3"		V14	4	3"	8'-0"	
A13	3	3"	14'-3"		V15	120	3"	6'-6"	
A14	6	3"	10'-6"		V16	64	3"	13'-0"	
A15	6	3"	5'-9"		V17	8	3"	17'-6"	
A16	32	3"	20'-0"		V18	56	3"	8'-3"	
A17	1	3"	16'-0"		V19	7	3"	10'-3"	
A18	1	3"	9'-6"		V20	24	3"	15'-9"	
A19	2	3"	14'-3"		V21	68	3"	8'-6"	
					V22	12	3"	5'-0"	
A21	40	3"	32'-0"		V23	4	3"	20'-3"	
A22	6	3"	34'-6"		V24	1	3"	11'-3"	
A23	12	3"	5'-6"		V25	4	3"	12'-0"	
A24	4	3"	4'-9"		V26	1	3"	16'-9"	
A25	16	3"	5'-0"		V27	77	3"	7'-6"	
A26	48	3"	5'-3"		V28	245	3"	7'-9"	
A27	5	3"	2'-3"		V29	36	3"	7'-9"	
A28	15	3"	3'-3"						
A29	4	3"	26'-0"		V30	32	1"	10'-9"	
A30	1	3"	26'-6"		V31	38	3"	8'-3"	
A31	3	3"	27'-9"		V32	142	3"	17'-9"	
A32	11	3"	26'-0"		V33	127	3"	10'-0"	
V27	13	3"	6'-6"						
V28	12	3"	9'-6"		V41	20	3"	15'-0"	
V29	12	3"	11'-0"		V42	10	3"	17'-0"	
V30	22	3"	12'-6"		V43	20	3"	19'-6"	
V31	22	3"	14'-0"		V44	10	3"	24'-0"	
V32	22	3"	15'-6"						



BAR V21

BAR SIZE	A	B	C	LENGTH
V13	6'-2"	1'-1"	7"	7'-9"
V14	6'-7 1/2"	10 1/2"	6"	7'-6"
V15	6'-1"	11 1/2"	8"	7'-9"
V16	9'-1 1/2"	11 1/2"	8"	10'-9"
V17	6'-10 1/2"	10 1/2"	6"	8'-3"
V18	10'-1 1/2"	11 1/2"	8"	11'-9"
V19	8'-5"	11 1/2"	7"	10'-0"

BARS V13 - V19

APPROVED *Walter C. Dyck* 1-3-51
COUNTY SUPERVISOR OF HIGHWAYS

EXAMINED *H. F. Burch* 3-26-51
BRIDGE ENGINEER

PASSED _____
ENGINEER OF DESIGN

APPROVED _____
CHIEF HIGHWAY ENGINEER

ITEM	UNIT	W. ABUT.	E. ABUT.
CLASS X CONCRETE	CU. YDS.	180.7	156.7
REINF. BARS	LBS.	15,950	13,550
UNTREATED TIMBER PILES (EST. LGTH. 20) LIN. FT.	1440		
UNTREATED TIMBER PILES (EST. LGTH. 15) LIN. FT.	945		
TIMBER TEST PILES	EACH	1	1
METAL PILE SHOES	EACH	73	64

NOTE
SEE SHEET 3 FOR DETAIL OF PILE SHOE
SEE SHEETS 6 & 7 FOR PLAN & ELEVATION OF ABUTMENTS.

ABUTMENT DETAILS
STONY CREEK BRIDGE
PROJECT 5-72(2)
F.A.S. RTE. 504 S.A. RTE. 4
SECTION 51-B
VERMILION COUNTY
STA. 17450

ALFRED BENESCH & ASSOCIATES
CONSULTING ENGINEERS
30 EAST ADAMS ST. CHICAGO 3, ILL.