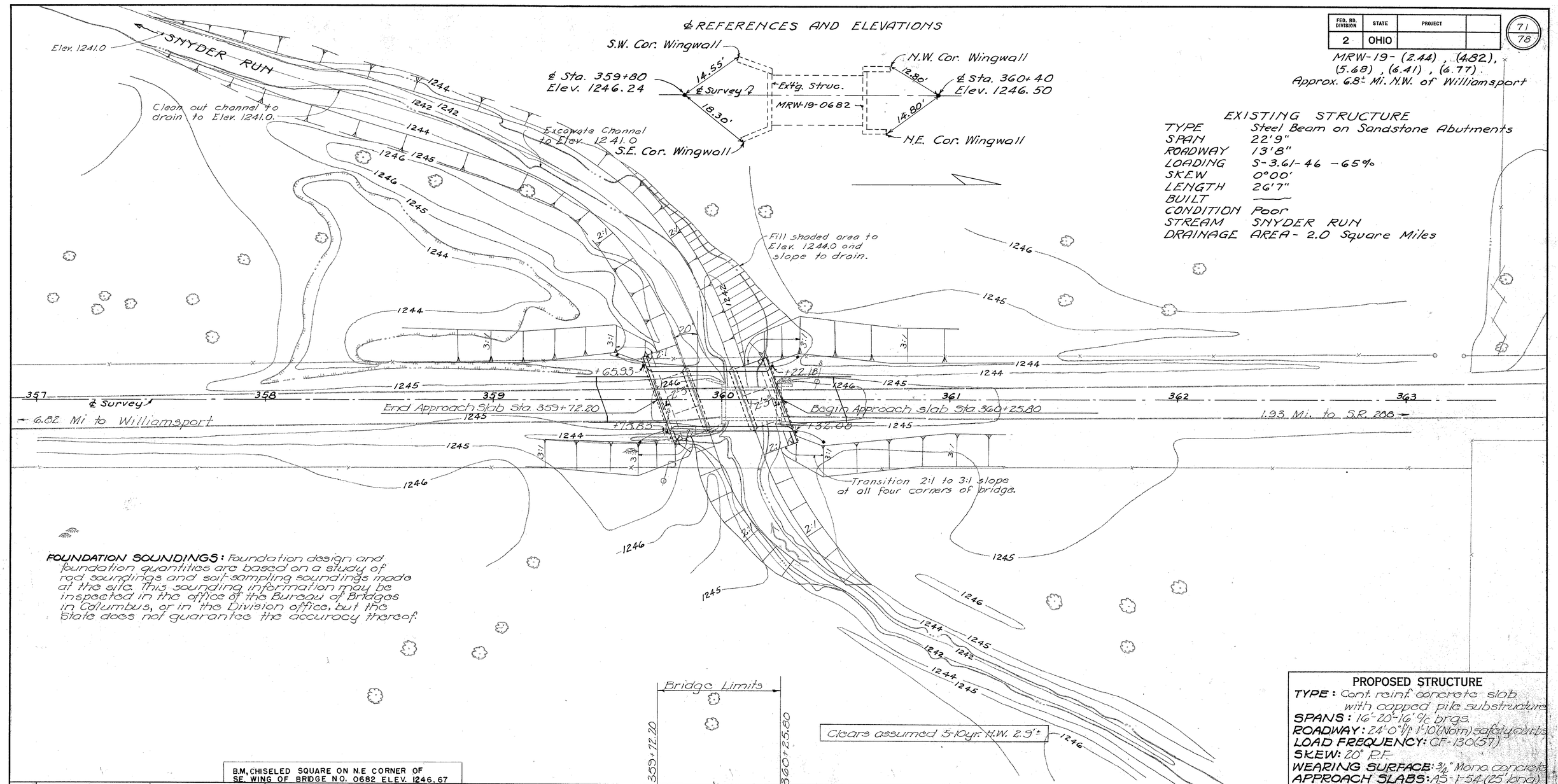
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

71
78

MRW-19-(2.44), (4.82), (5.68), (6.41), (6.77).
Approx. 6.8± Mi. N.W. of Williamsport

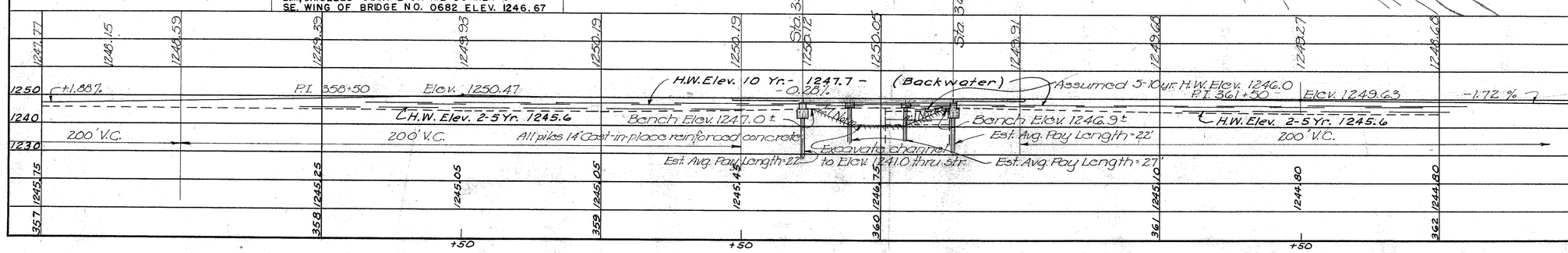
EXISTING STRUCTURE

TYPE	Steel Beam on Sandstone Abutments
SPAN	22'9"
ROADWAY	13'8"
LOADING	S-3.61-46 -65%
SKEW	0°00'
LENGTH	26'7"
BUILT	——
CONDITION	Poor
STREAM	SNYDER RUN
DRAINAGE AREA	2.0 Square Miles



FOUNDATION SOUNDINGS: Foundation design and foundation quantities are based on a study of rod soundings and soil-sampling soundings made at the site. This sounding information may be inspected in the office of the Bureau of Bridges in Columbus, or in the Division office, but the State does not guarantee the accuracy thereof.

B.M. CHISELED SQUARE ON N.E CORNER OF SE. WING OF BRIDGE NO. 0682 ELEV. 1246.67



PROPOSED STRUCTURE

TYPE: Cont. reinf. concrete slab with capped pile substructure
SPANS: 16'-20'-16' c/c brgs.
ROADWAY: 24'-0" f/f 1'-10" (Nom) safety curbs
LOAD FREQUENCY: CF-130(57)
SKEW: 20° R.F.
WEARING SURFACE: 3/4" Mono. concrete
APPROACH SLABS: AS-1-54 (25' long)
ALIGNMENT: Tangent

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

SITE PLAN

BRIDGE NO. MRW - 19 - 0681
OVER SNYDER RUN
MORROW CO SR - 19

SEC.
SCALE 1" = 20'
STA. 359+72.20
360+25.80

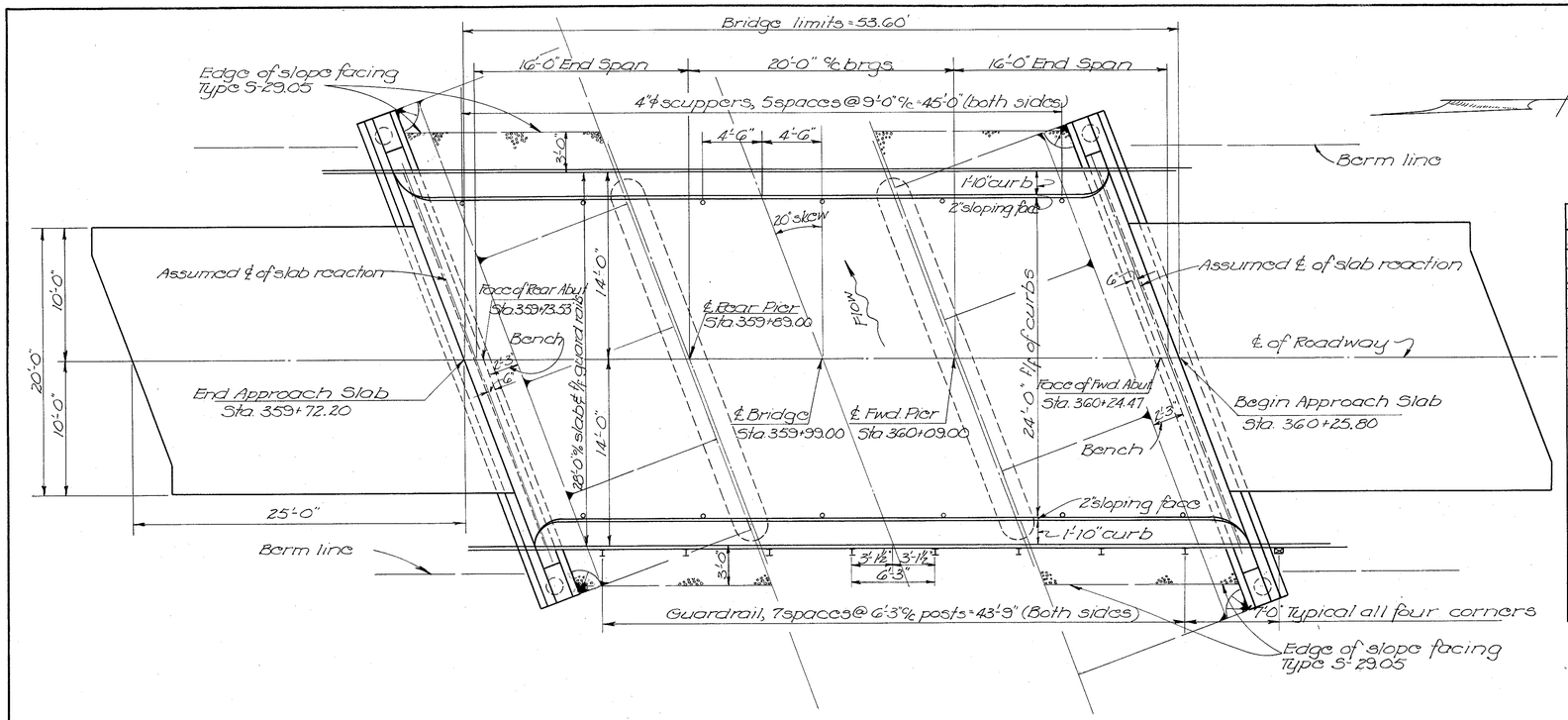
PRESENT TOPOGRAPHY		PROPOSED WORK			
SURVEYED	DRAWN	DESIGNED	DRAWN	CHECKED	REVIEWED
Aerial Survey	Aerial Survey	J.H.B.	J.H.B.	J.E.P.	P.E.S.

BFG A.J.S. 4-22-58

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

72
78

MRW-19-(2.44), (4.82), (5.68), (6.41), (6.77).



GENERAL PLAN

ESTIMATED QUANTITIES

Item	Total	Unit	Description	Sup'str.	Abuts.	Piers	Gen'l		
E-2	51	Cu. Yds.	Unclassified excavation		51				
E-3	761	Cu. Yds.	Channel excavation				761		
S-1	69	Cu. Yds.	Class "C" concrete, superstructure & pier caps.	59		10			
S-1	38	Cu. Yds.	Class "B" concrete, abutments		38				
S-4	21436	Lbs.	Reinforcing steel	14493	4095	2848			
S-9	10	Sq. ft.	½" Preformed expansion joint filler		10				
S-14	107.20	Lin. ft.	Railing (Type I-15.13 with handrail						
			and galvanized steel posts and bolts)	107.20					
S-16	Lump	Sum	First test pile				Lump		
S-18	530	Lin. ft.	14" Cast-in-place, reinforced						
			concrete piles		260	270			
S-24	Lump	Sum	Removal of existing structure				Lump		
S-28	15	Cu. Yds.	Porous backfill		15				
S-29	43	Cu. Yds.	Slope facing (Type S-29.05)				43		
S-29	12	Each	Scuppers, 4"ϕ cast iron or wrought						
			iron pipe	12					

GENERAL NOTES

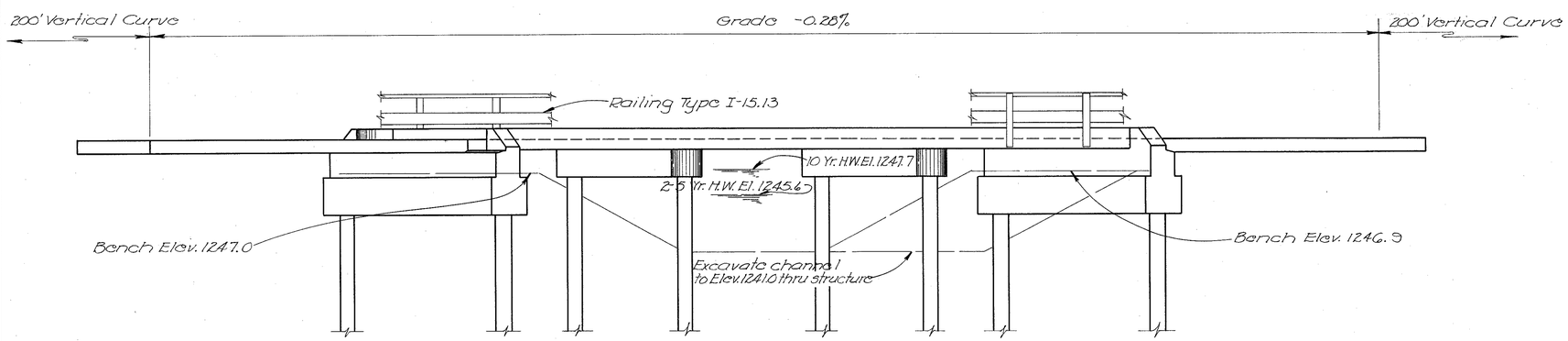
REFERENCE shall be made to Standard Drawings CS-2-54, dated 12-1-54, except that the slope of the face of the curb shall be 2 inches, instead of 3 inches, and to A-2-54 and P-1-54, both revised 12-1-54.

REMOVAL OF EXISTING STRUCTURE: When no longer needed to maintain traffic the existing structure shall be removed. Suitable waste masonry may be used for bank protection at the direction of the Engineer. Other waste masonry may be disposed of in channel fill.

PILES shall be driven to a minimum bearing capacity of 18 tons per pile for the abutments and 22 tons per pile for the piers.

PIER PILE ENCASEMENT as shown on Std. Dwg. No. P-1-54 may be omitted provided that the tapered portion, if any, of all pier piles does not extend above the stream bed or the proposed surface of the ground. If the tapered portion of any pile extends above these limitations, the encasement will be required for all the pier piles. If the encasement is omitted, the pile casings shall have a thickness of metal not less than No. 7 gauge, and the painting of the piles shall extend to low water elevation or, if the proposed surface of the ground is above low water, the painting shall extend to at least one foot below the proposed surface of the ground.

SLOPE FACING (S-29.05 type) shall be provided under the structure at both abutments. The porous drain material shall be 12" thick and shall extend from the face of the abutment down to Elev. 1241.0 and transversely to 3 ft. outside the edges of the superstructure.



NOTE: All piles 14" Reinforced Concrete, cast-in-place. All piling not shown.

ELEVATION

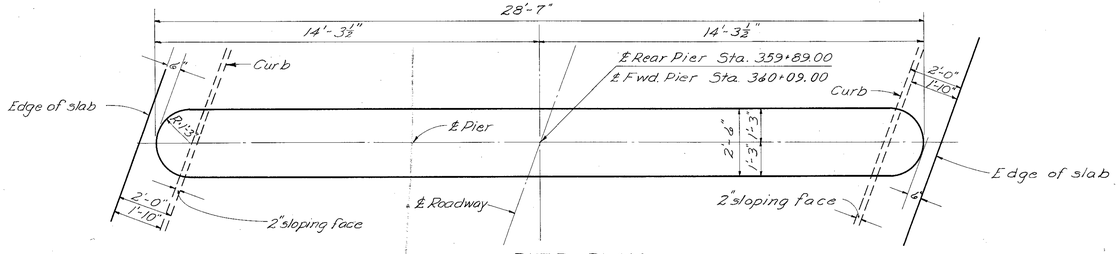
STATE OF OHIO
DEPARTMENT OF HIGHWAYS
DIVISION OF DESIGN AND CONSTRUCTION
BUREAU OF BRIDGES

GENERAL PLAN & ELEVATION
NOTES & ESTIMATED QUANTITIES
BRIDGE NO. MRW-19-0681
OVER SNYDER RUN
MORROW COUNTY STA. 359+72.20 STA. 360+25.80

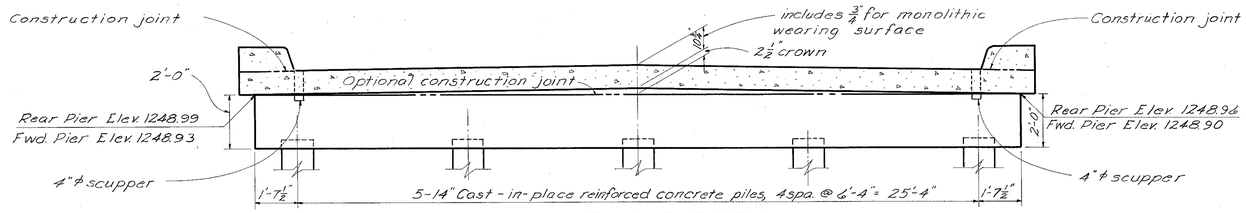
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
		Bico	DGM	BFG	4-22-58	

FED. RD. DIVISION	STATE	PROJECT		73 / 78
2	OHIO			

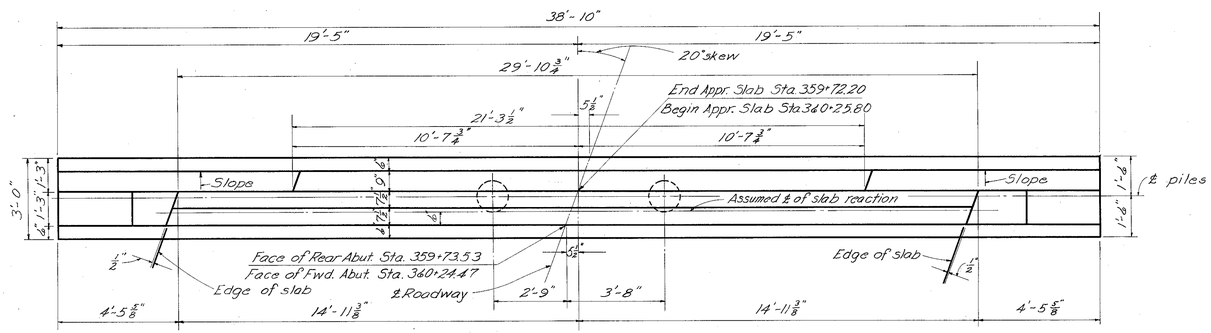
MRW-19- (2.44), (4.82), (5.68), (6.41), (6.77).



PIER PLAN



PIER ELEVATION

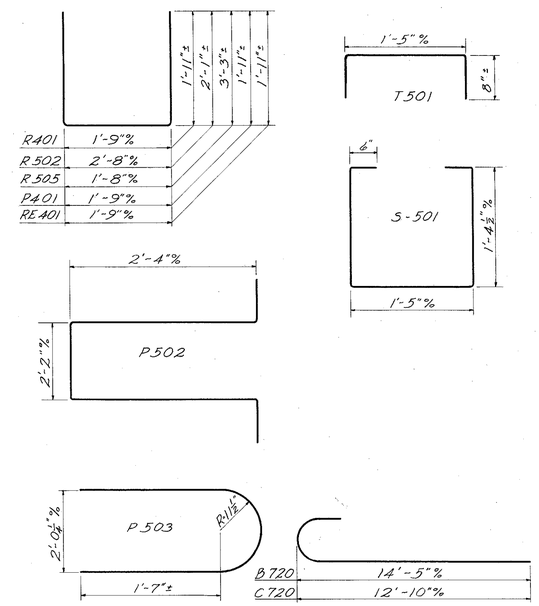


ABUTMENT PLAN

REINFORCING STEEL LIST

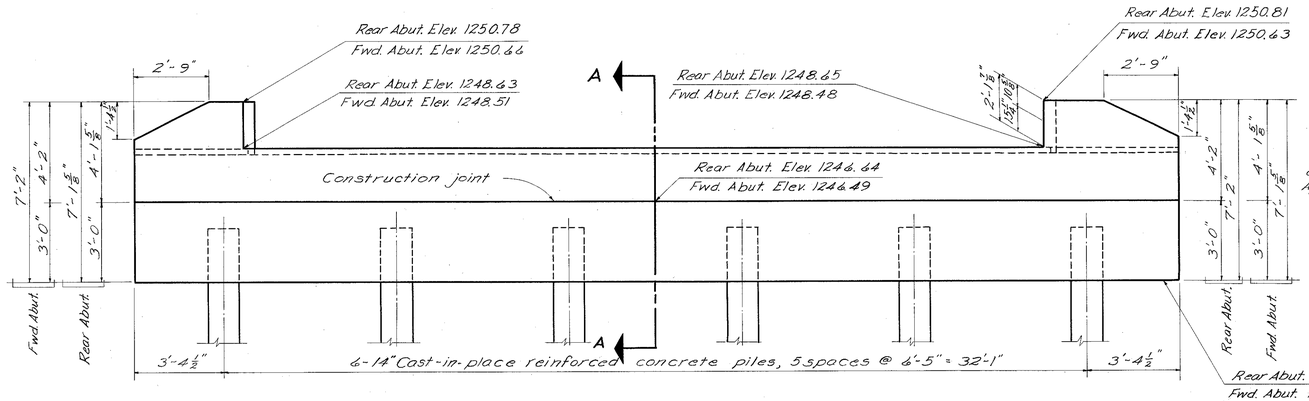
MARK	NO	LENGTH	WEIGHT	SHP
Superstructure				
F 820	46	15'-4"	1883	S
G 820	22	9'-10"	578	S
H 820	22	8'-10"	519	S
A 720	90	19'-3"	3069	S
B 720	24	15'-3"	748	B
C 720	26	13'-8"	726	B
D 720	12	15'-6"	380	S
E 720	13	11'-0"	292	S
J 601	24	11'-5"	412	S
K 601	12	8'-8"	156	S
M 601	52	29'-3"	2285	S
N 601	41	29'-3"	1801	S
R 620	20	11'-0"	330	S
O 501	6	12'-2"	76	S
P 501	12	12'-8"	159	S
S 501	146	4'-7"	698	B
T 501	146	2'-6"	381	B
Abutments				
R 1001	8	38'-6"	1325	S
R 801	8	38'-6"	822	S
R 501	12	38'-6"	482	S
R 502	116	6'-7"	797	B
R 503	8	2'-3"	19	S
R 504	8	2'-7"	22	S
R 505	48	7'-11"	394	B
R 506	14	3'-6"	58	S
R 401	48	5'-5"	174	B

BENDING DIAGRAM

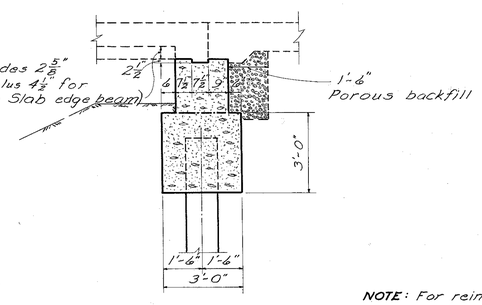


MARK	NO	LENGTH	WEIGHT	SHP
Piers				
P 1001	8	29'-3"	1007	S
P 901	8	26'-1"	709	S
P 701	60	4'-0"	491	S
P 501	4	26'-1"	109	S
P 502	40	8'-0"	334	B
P 503	8	6'-4"	53	B
P 401	40	5'-5"	145	B
Replacement Bars				
RE 1001	1	7'-2"	-	S
RE 901	1	6'-10"	-	S
RE 801	1	6'-6"	-	S
RE 701	1	6'-2"	-	S
RE 601	1	5'-11"	-	S
RE 501	1	5'-7"	-	S
RE 401	1	5'-5"	-	B

REPLACEMENT BARS: If reinforcing bars are fabricated from stock which has previously been tested and approved by the Ohio State Highway Testing Laboratory, test samples as provided in Sec. S-402 need not be furnished and replacement bars will not be required.



ABUTMENT ELEVATION



SECTION A-A

NOTE: For reinforcing steel and any details not shown, see Standard Drawings A-2-54 and P-1-54.

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
DIVISION OF DESIGN AND CONSTRUCTION
BUREAU OF BRIDGES

ABUTMENT & PIER DETAILS
REINFORCING STEEL LIST

BRIDGE NO. MRW-19-0681
OVER SNYDER RUN
MORROW COUNTY Sta. 359+72.20 Sta. 360+25.80

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
		J.E.P.	DGM	BFG	4-22-58	