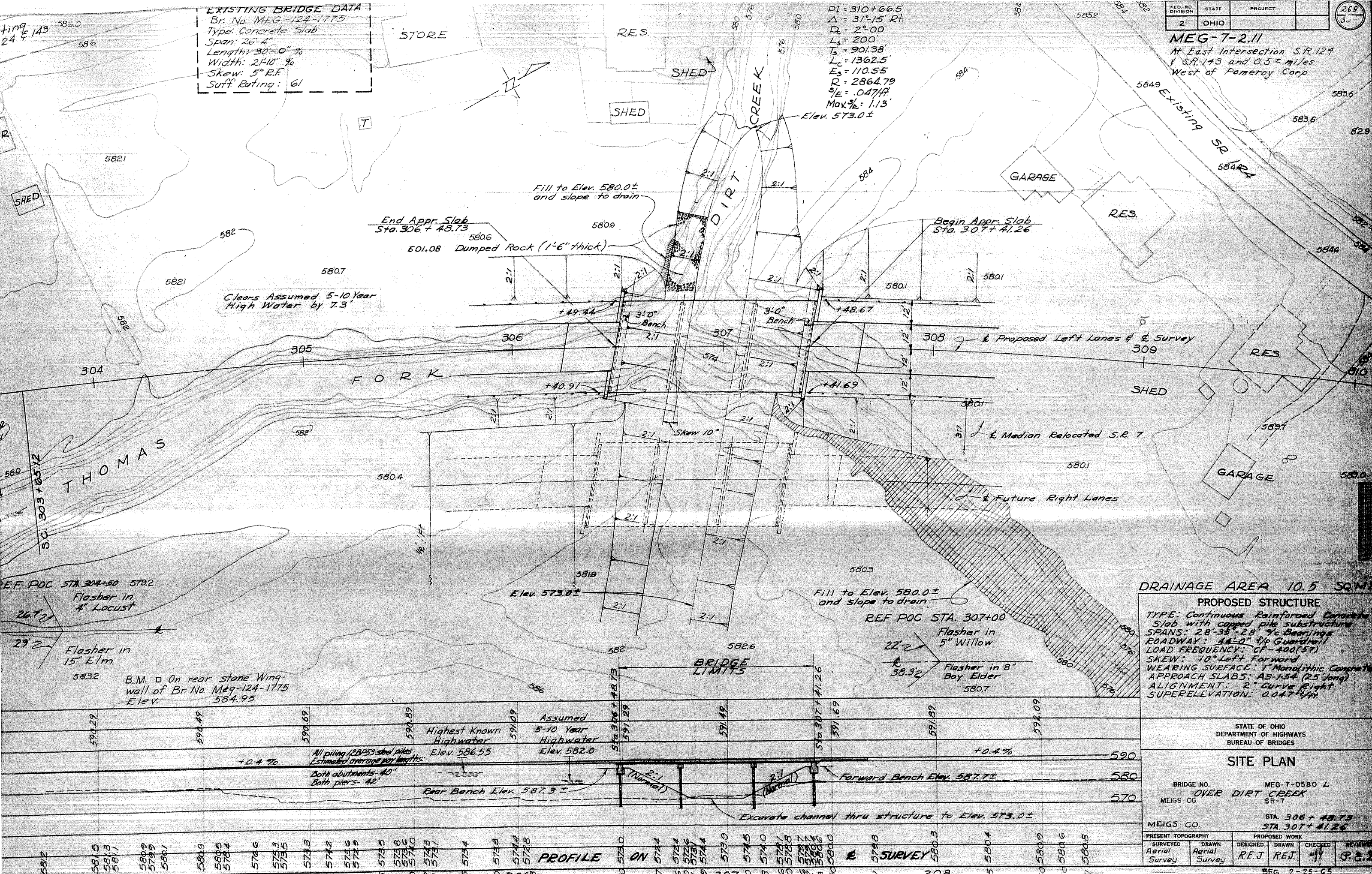


EXISTING BRIDGE DATA
 Br. No. MEG-124-1775
 Type: Concrete Slab
 Span: 26'-4"
 Length: 30'-0"
 Width: 24'-0"
 Skew: 5° R.F.
 Suff. Rating: G1

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

MEG-7-2.11
 At East Intersection S.R. 124
 & S.R. 143 and 0.5 ± miles
 West of Pomeroy Corp.

PI = 310+66.5
 $\Delta = 31^\circ 15' R$
 $D_c = 2^\circ 00'$
 $L_s = 200$
 $T_s = 901.38'$
 $L_c = 1362.5'$
 $E_s = 110.55'$
 $R = 2864.79'$
 $\%E = 0.0744$
 Max. $\%E = 1.13'$



DRAINAGE AREA 10.5 SQ. MI.

PROPOSED STRUCTURE
 TYPE: Continuous Reinforced Concrete Slab with capped pile substructure
 SPANS: 28'-3 1/2" - 28' 9/16" Bearings
 ROADWAY: 44'-0" w/ Guardrail
 LOAD FREQUENCY: CF-400(57)
 SKEW: 10° Left Forward
 WEARING SURFACE: 1" Monolithic Concrete
 APPROACH SLABS: A5-1.54 (25' long)
 ALIGNMENT: 2" Curve Right
 SUPERELEVATION: 0.0474/R

STATE OF OHIO
 DEPARTMENT OF HIGHWAYS
 BUREAU OF BRIDGES

SITE PLAN

BRIDGE NO. MEG-7-0580 L
 OVER DIRT CREEK
 MEIGS CO. SR-7

STA. 306 + 48.73
 STA. 307 + 41.26

PRESENT TOPOGRAPHY		PROPOSED WORK			
SURVEYED	DRAWN	DESIGNED	DRAWN	CHECKED	REVIEWED
Aerial Survey	Aerial Survey	REJ.	RET.		

MEIGS CO.

BEG 2-2E-25

PROFILE ON SURVEY

5	581.5	12	580.9	19	574.5	26	578.1	33	573.5	40	574.2	47	574.4	54	573.0	61	574.4	68	574.4	75	573.4	82	574.4	89	574.4	96	573.5	103	574.4	110	574.4	117	574.4	124	574.4	131	574.4	138	574.4	145	574.4	152	574.4	159	574.4	166	574.4	173	574.4	180	574.4	187	574.4	194	574.4	201	574.4	208	574.4	215	574.4	222	574.4	229	574.4	236	574.4	243	574.4	250	574.4	257	574.4	264	574.4	271	574.4	278	574.4	285	574.4	292	574.4	299	574.4	306	574.4	313	574.4	320	574.4	327	574.4	334	574.4	341	574.4	348	574.4	355	574.4	362	574.4	369	574.4	376	574.4	383	574.4	390	574.4	397	574.4	404	574.4	411	574.4	418	574.4	425	574.4	432	574.4	439	574.4	446	574.4	453	574.4	460	574.4	467	574.4	474	574.4	481	574.4	488	574.4	495	574.4	502	574.4	509	574.4	516	574.4	523	574.4	530	574.4	537	574.4	544	574.4	551	574.4	558	574.4	565	574.4	572	574.4	579	574.4	586	574.4	593	574.4	600	574.4	607	574.4	614	574.4	621	574.4	628	574.4	635	574.4	642	574.4	649	574.4	656	574.4	663	574.4	670	574.4	677	574.4	684	574.4	691	574.4	698	574.4	705	574.4	712	574.4	719	574.4	726	574.4	733	574.4	740	574.4	747	574.4	754	574.4	761	574.4	768	574.4	775	574.4	782	574.4	789	574.4	796	574.4	803	574.4	810	574.4	817	574.4	824	574.4	831	574.4	838	574.4	845	574.4	852	574.4	859	574.4	866	574.4	873	574.4	880	574.4	887	574.4	894	574.4	901	574.4	908	574.4	915	574.4	922	574.4	929	574.4	936	574.4	943	574.4	950	574.4	957	574.4	964	574.4	971	574.4	978	574.4	985	574.4	992	574.4	999	574.4
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MEG-7-2.11

GENERAL NOTES

REFERENCE shall be made to Standard Drawings CS-1-54 revised 4-1-63, and to Supplemental Specification 808 dated 7-14-66.

DESIGN LOADING: CF+ 400(57)
 BASIC STRESSES:
 Concrete Class C - basic unit stress 1,333 p.s.i.
 Concrete Class E - basic unit stress 1,133 p.s.i.
 Reinforcing Steel - ASTM A15, A16, A16D, Deformed, Intermediate or Hard Grade, Basic unit stress 20,000 p.s.i.

EMBANKMENT PROCEDURE: The embankment shall be placed and compacted up to the finished spill-thru slope and to the level of the subgrade for a distance of 200 feet back of both abutments, after which excavation shall be made for the abutments and for the earth bench, and piles for the abutments and piers driven.

PILES shall be driven to firm contact with rock. If the length of penetration is approximately equal to the depth to rock according to the bridge foundation investigation report, the contact shall be considered as attained when the capacity according to the formula in Sec. 507.05 is not less than the following value for a pile hammer of the indicated energy rating:

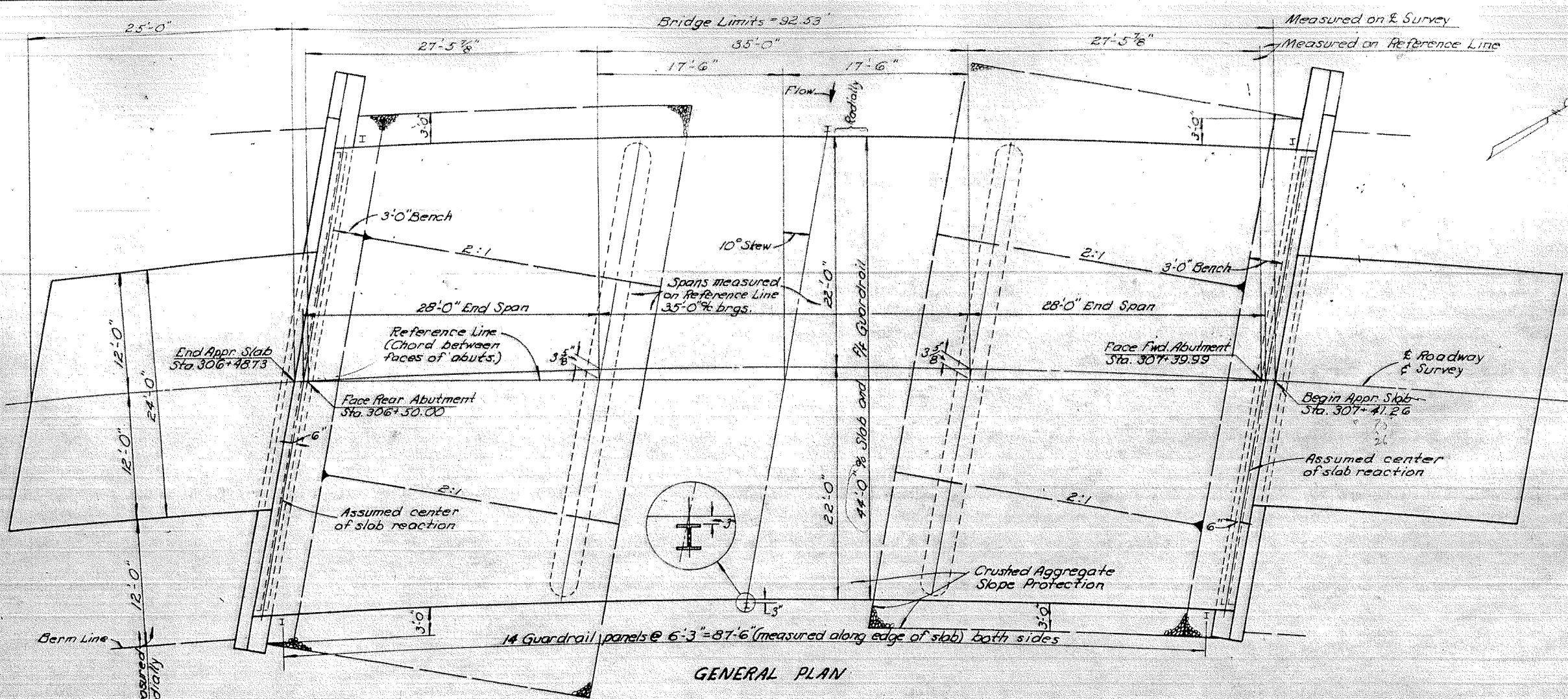
- For the abutment piles:
 - 40 tons per pile using a 7000 ft. lb. hammer
 - 35 tons per pile using an 11000 ft. lb. hammer
 - 30 tons per pile using a 15000 ft. lb. or greater hammer
- For the pier piles:
 - 60 tons per pile using an 11000 ft. lb. hammer
 - 55 tons per pile using a 15000 ft. lb. or greater hammer

Pier piles shall be driven with a hammer of not less than 11,000 ft. lbs. per blow. If the energy rating of the hammer is between the ratings as shown above, the required formula capacity shall be determined by interpolation.

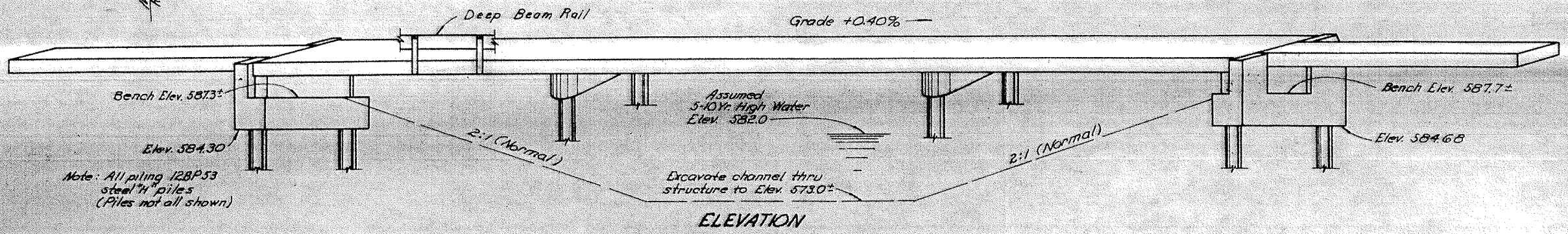
The design load is 26 tons per pile for the abutment piles and 37 tons per pile for the pier piles.

MACHINE FINISH: At the Contractor's option, the concrete deck may be finished by the use of a finishing machine.

PILE PAINTING: Piles shall be painted in accordance with Item 514 applying two coats as per Sections 708.08, 708.09 or 708.08 and two coats as per Section 708.12. The painting of piles shall extend to low water elevation or, if the proposed surface of the ground is above low water, it shall extend to at least one foot below the proposed surface of the ground. Pile painting is included with Item 507 for payment.



GENERAL PLAN



ELEVATION

ESTIMATED QUANTITIES

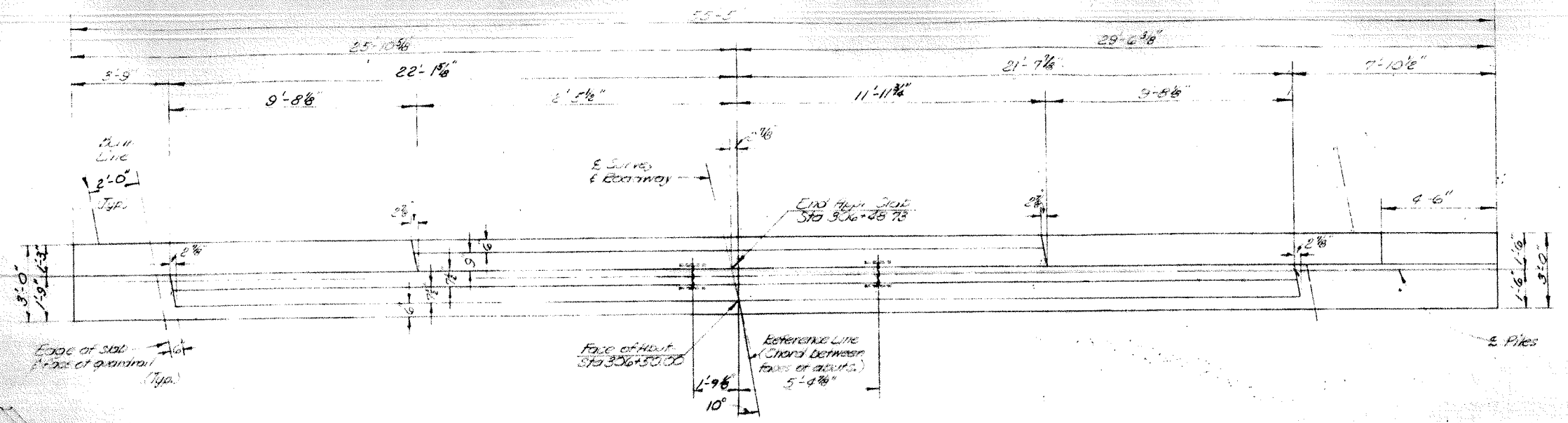
Item	Total	Unit	Description	Super	Abuts	Piers	Gen'l	As Built
503	107	Cu. Yds.	Unclassified excavation		107			
511	218	Cu. Yds.	Class "C" concrete, superstructure and pier caps	202		16		
511	66	Cu. Yds.	Class "E" concrete, abutments		66			
508	58,774	Lbs.	Reinforcing steel	48,679	6,304	3,791		
517	185.06	Lin. Ft.	Railing (deep beam rail, steel post and bolts)	185.06				
505	Lump	Sum	First test pile				Lump	
507	1310	Lin. Ft.	Steel piles, 12BP53		640	670		
518	23	Cu. Yds.	Porous backfill		23			
808	218	Each	Water-reducing, set-retarding admixture	202		16		
601	416	Sq. Yds.	Crushed aggregate slope protection				416	

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

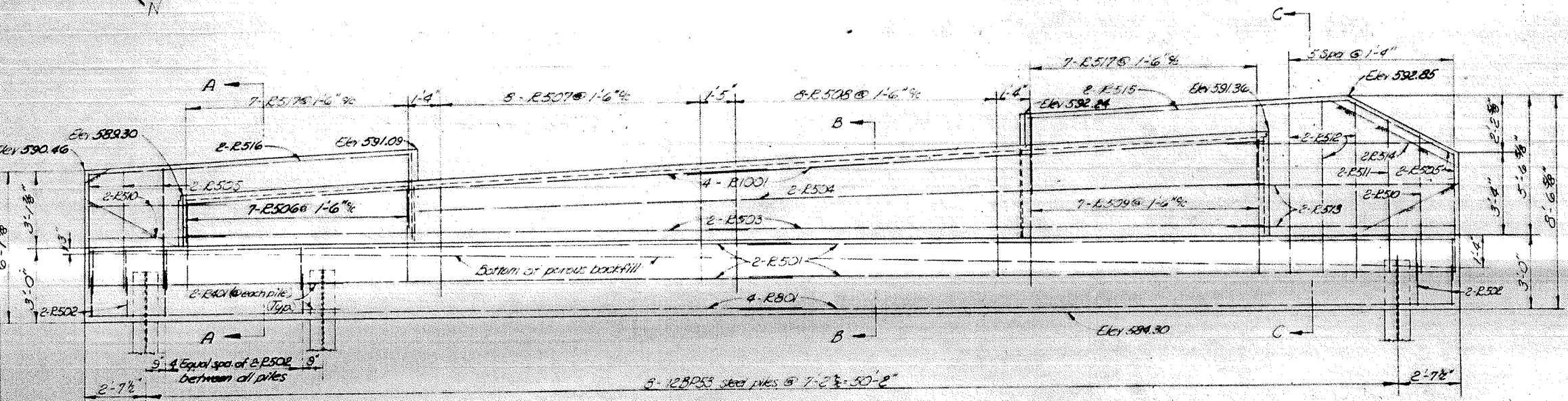
GENERAL PLAN, ELEVATION, NOTES & ESTIMATED QUANTITIES
 BRIDGE No. MEG-7-0580L
 OVER DIRT CREEK
 MEIGS COUNTY Sta. 306+48.73
 307+41.26

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE
JFS	JFS	P.K.I.	MPB	BFG	2-25-65

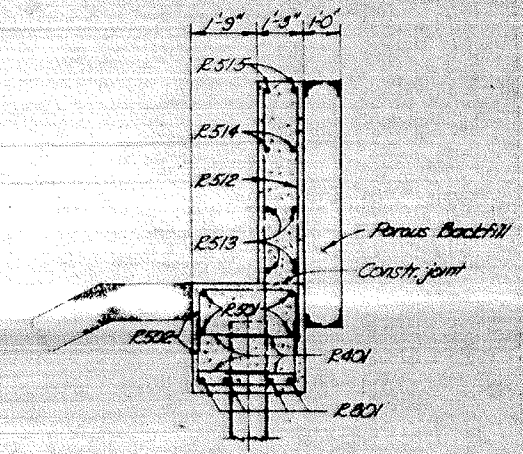
MEG-7-211



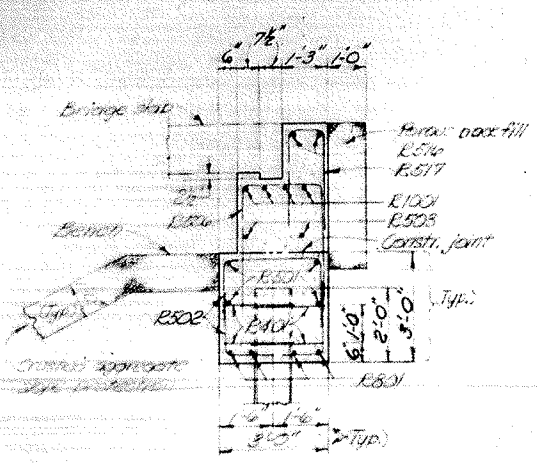
PLAN



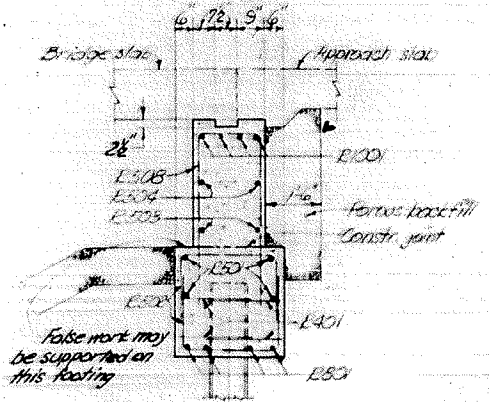
REAR ABUTMENT ELEVATION



SECTION C-C



SECTION A-A



SECTION B-B

NOTES

CONCRETE shall be Class "E" and payment will be made on this basis, but Class "C" concrete may be used for any or all parts of the abutments.

PERVIOUS BACKFILL shall extend upward to the approach slab and to the surface of the earth shoulders and outward to the surface of the embankment slopes. Excavation, however, in excess of that required for construction of the footing, shall be considered as paid for in the bid price per cu. yd. for pervious backfill.

EXCAVATION QUANTITY includes the removal of embankment material between the bottom of the abutment footing and the top of the earth bench.

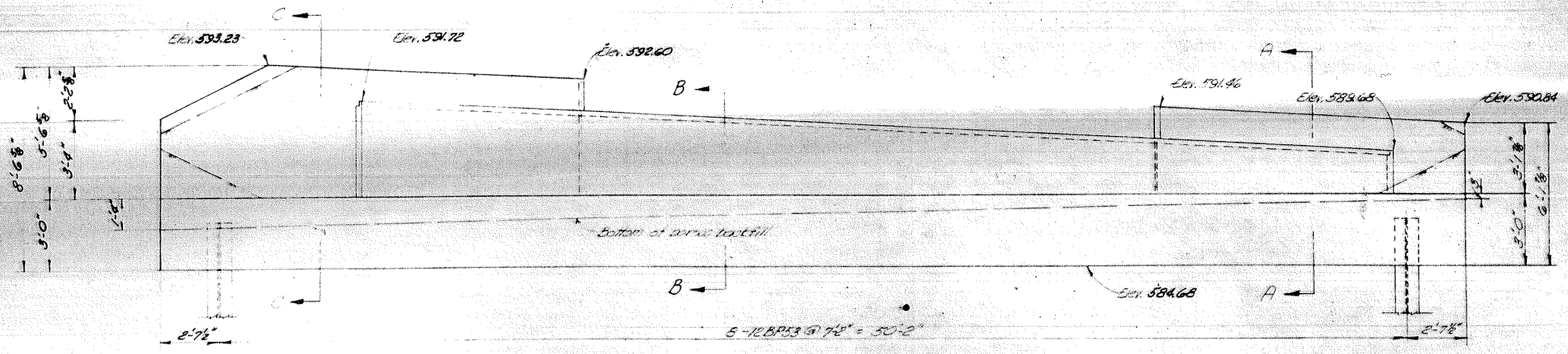
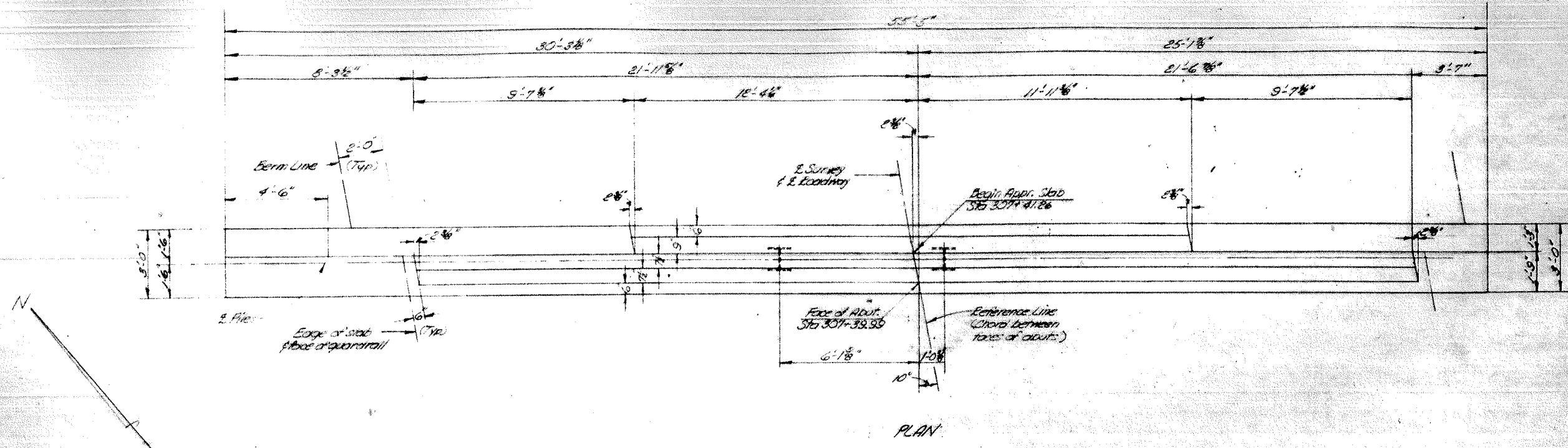
STATE OF OHIO
DEPARTMENT OF HIGHWAYS
DIVISION OF DESIGN AND CONSTRUCTION
BUREAU OF DESIGN

REAR ABUTMENT DETAILS
BRIDGE No. MEG-7-0580L
OVER DIET CREEK
METES COUNTY Sta. 306+48.73
307+41.26

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE
JFS	JFS		MPB	BFG	2-25-65

DES	NO	DATE	
2	DWD		

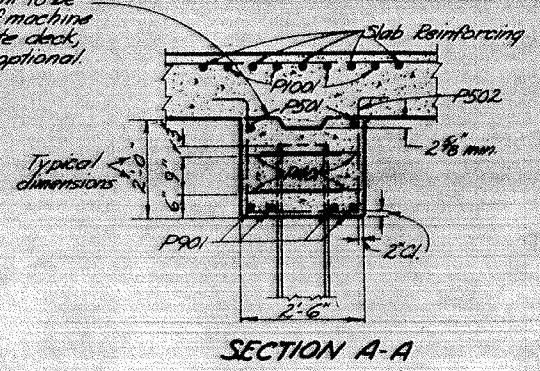
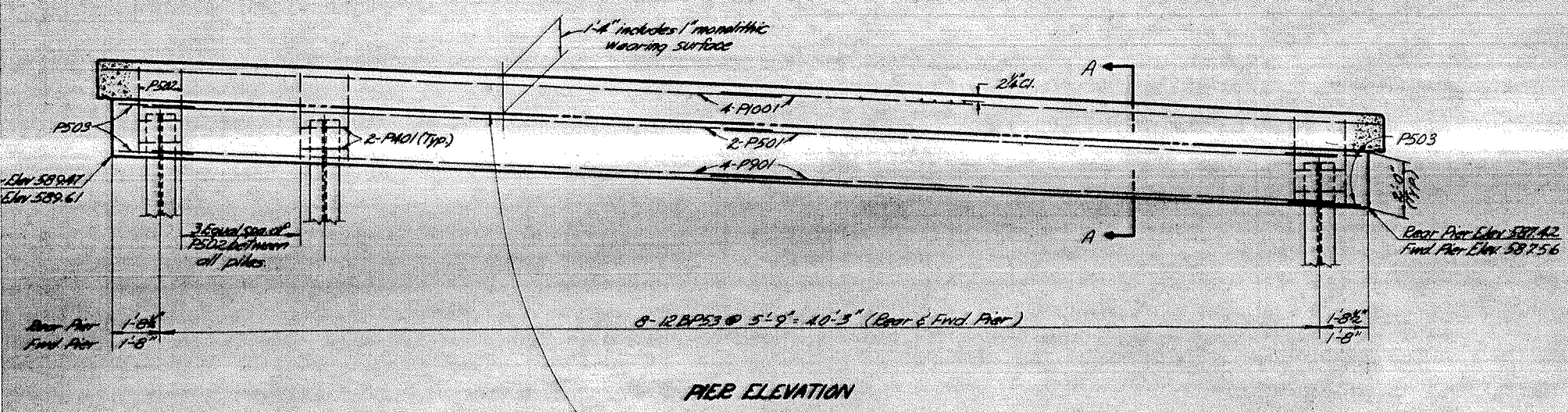
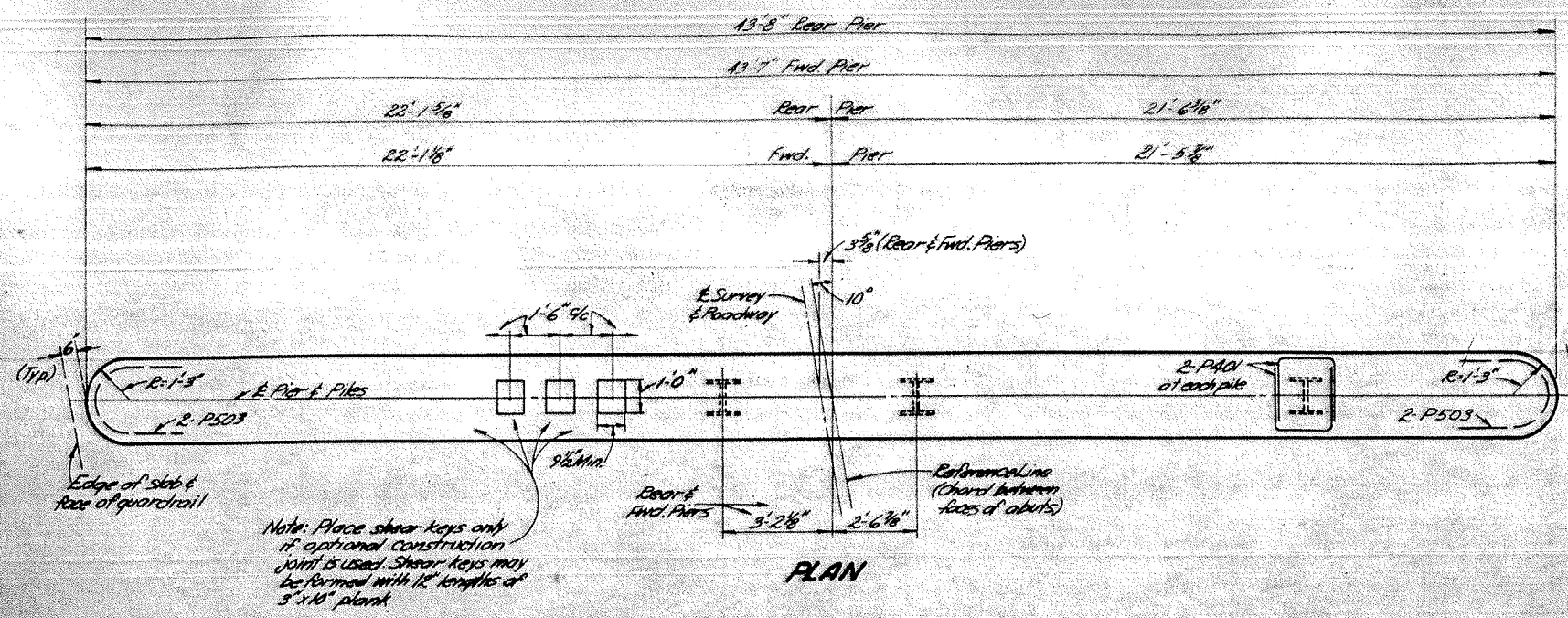
MEG-7-2.11



NOTE: See REAR ABUTMENT DETAILS sheet for notes, sectional views, and reinforcement details. Reinforcement is same as in rear abutment, except opposite hand.

STATE OF OHIO DEPARTMENT OF HIGHWAYS DIVISION OF DESIGN AND CONSTRUCTION BUREAU OF BRIDGES					
FORWARD ABUTMENT DETAILS					
BRIDGE No. MEG-7-0580L OVER DIET CREEK					
MSIGS COUNTY					
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE
JFS	JFS		MPB	DW	2-25-65

MEG-7-2.11



REINFORCING STEEL LIST										
Mark	No.	Length	Weight	Shp.	Bending Diagrams	Mark	No.	Length	Weight	Shp.
Superstructure					Abutments					
A946	123	32'-8"	13,662	S	B946 C946	R1001	16	23'-4"	1,607	S
B946	40	23'-8"	3,219	B		R801	16	28'-10"	1,232	S
C946	40	20'-11"	2,845	B		R501	16	28'-4"	471	S
D946	20	22'-0"	1,496	S		R502	156	6'-7"	1,071	B
E946	20	16'-4"	1,111	S		R503	8	22'-7"	135	S
F1046	76	28'-5"	9,293	S	P502	R504	4	34'-2"	143	S
G1046	38	19'-9"	2,248	S		R505	20	4'-9"	100	S
H1046	36	10'-9"	1,665	S		R506	14	9'-3"	135	B
J601	38	16'-6"	942	S		R507	16	9'-11"	166	B
K601	19	11'-10"	338	S		R508	16	10'-11"	182	B
N601	120	23'-7"	4,161	S	P503	R509	14	12'-5"	181	B
M701	162	23'-9"	7,699	S		R510	12	5'-8"	69	S
P1001	16	23'-9"	1,635	S		R511	4	6'-4"	26	S
P901	16	21'-11"	1,192	S		R512	12	7'-1"	89	S
P501	8	21'-5"	179	S		R513	8	9'-4"	78	S
P502	60	8'-0"	501	B	R514	4	8'-4"	35	S	
P503	8	6'-4"	52	B	R515	4	12'-3"	51	S	
P401	64	5'-5"	232	B	R516	4	12'-7"	59	S	
Piers					Replacement Bars					
R5401					Bending Diagrams for Replacement Bars	RE001	1	7'-2"	-	S
R401						RE901	2	6'-10"	-	S
P401						RE801	1	6'-6"	-	S
P502						RE701	1	6'-2"	-	S
P506						RE601	1	5'-11"	-	S
P507						RE501	1	5'-7"	-	S
P509						RE401	1	5'-5"	-	B

NOTES

FALSEWORK SUPPORT: The pier cap shall not be used to support falsework for the deck slab.

HORIZONTAL CONSTRUCTION JOINT: between the top of pier cap and bottom of slab will be permitted if keys, as shown, are provided at the top of the cap. If such a joint is not provided, the concrete in the slab and cap shall be placed in a continuous operation.

CONCRETE shall be Class "C"

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

PIER DETAILS AND REINFORCING STEEL LIST

BRIDGE No. MEG-7-0500L
OVER DIET CREEK

MEIGS COUNTY

DESIGNED: JFS
DRAWN: JFS
CHECKED: NPL
ESTIMATED: MPB
DATE: BFG 2-25-65

370 306-4879
307-41-36