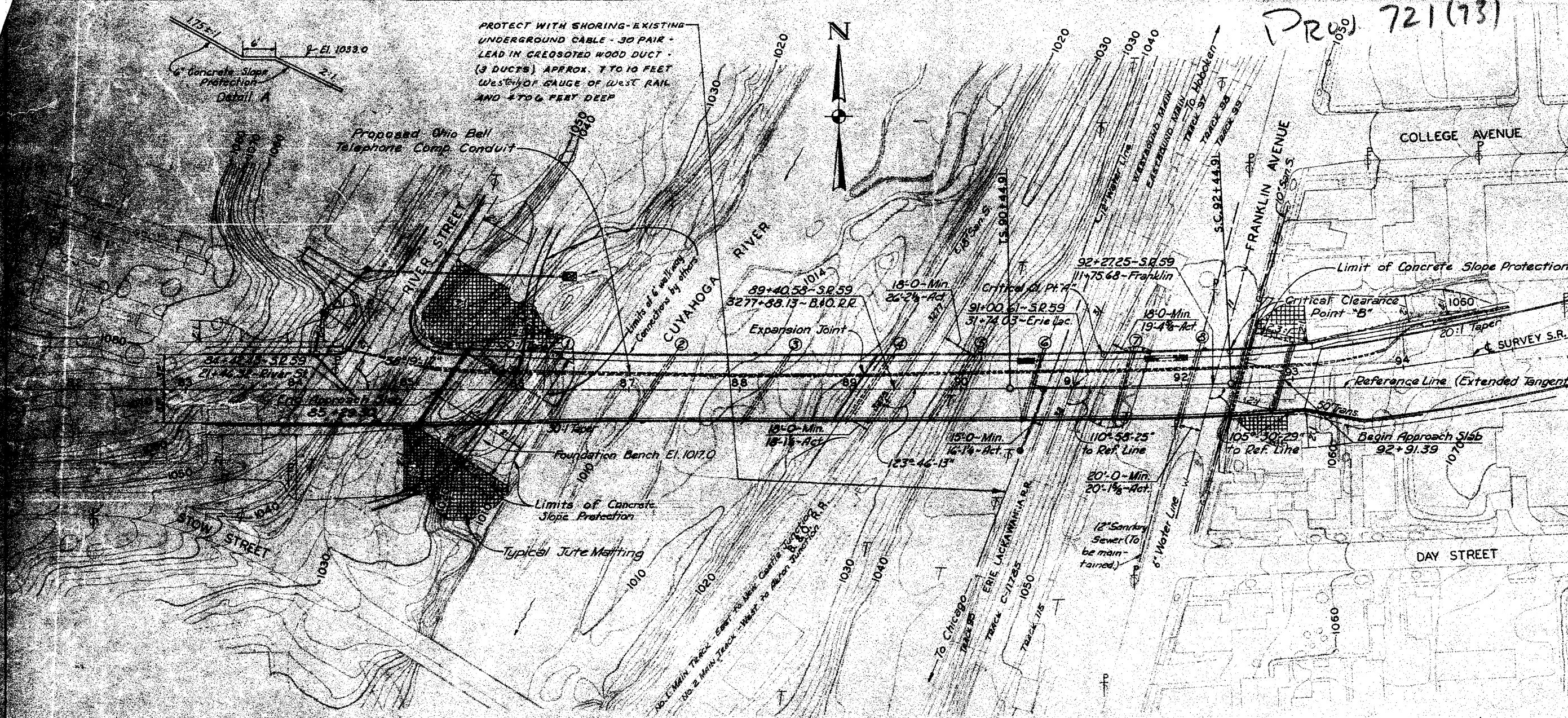


FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

PORTAGE COUNTY
 POR-59-0.80
 POR-43-11.66
 POR-43DA-0.00

PROJ 721(73)

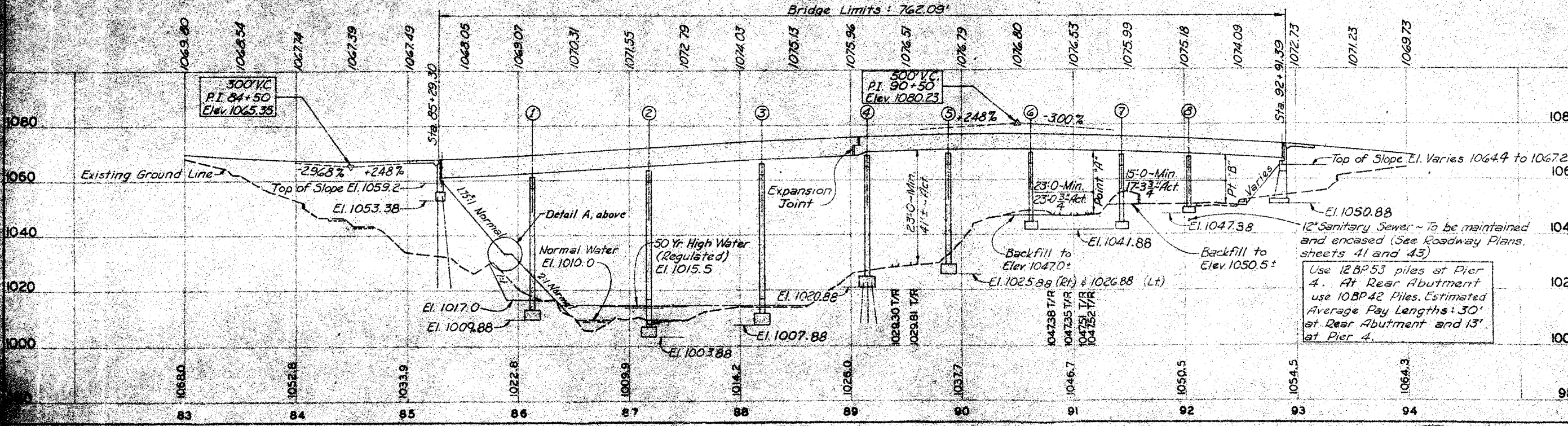


CURVE DATA S.R.
 P.I. Sta 93+71
 $\Delta = 41^{\circ}37'57''$
 $D = 3^{\circ}00'$
 $L_c = 1167.56'$
 $R = 1903.64'$
 $L_s = 200'$
 $\theta_s = 3^{\circ}00'$

Bench Mark Elev. 1071.0
 G.S. brass disk in fra
 Building stamped, Ke

S.R. 59 1985 A.D.T.
 B10 Average Daily Train Tra
 Erie L. Average Daily Train Tra
 $Q_{50} = 4200$ c.f.s. (10)

PROPOSED STRUCTURE
 TYPE: Continuous steel girder reinforced concrete deck substructure units.
 SPANS: 84.0' - 103.0' - 103.1' - 74.0' - 74.0' - 81.83' - 59.92'
 (Measured along & Survey Roadway: 52'-0" face to face)
 LIVE LOAD: HS 20-44
 SKEW: $33^{\circ}30'$ (Rear) $+15^{\circ}3'$
 SURFACE COURSE: $1\frac{1}{2}$ " Asphalt
 APPROACH SLABS: 45'-1-67' 25' long
 ALIGNMENT: Tangent, Split 3°00' Curve (Lt)
 SUPERELEVATION: Varies



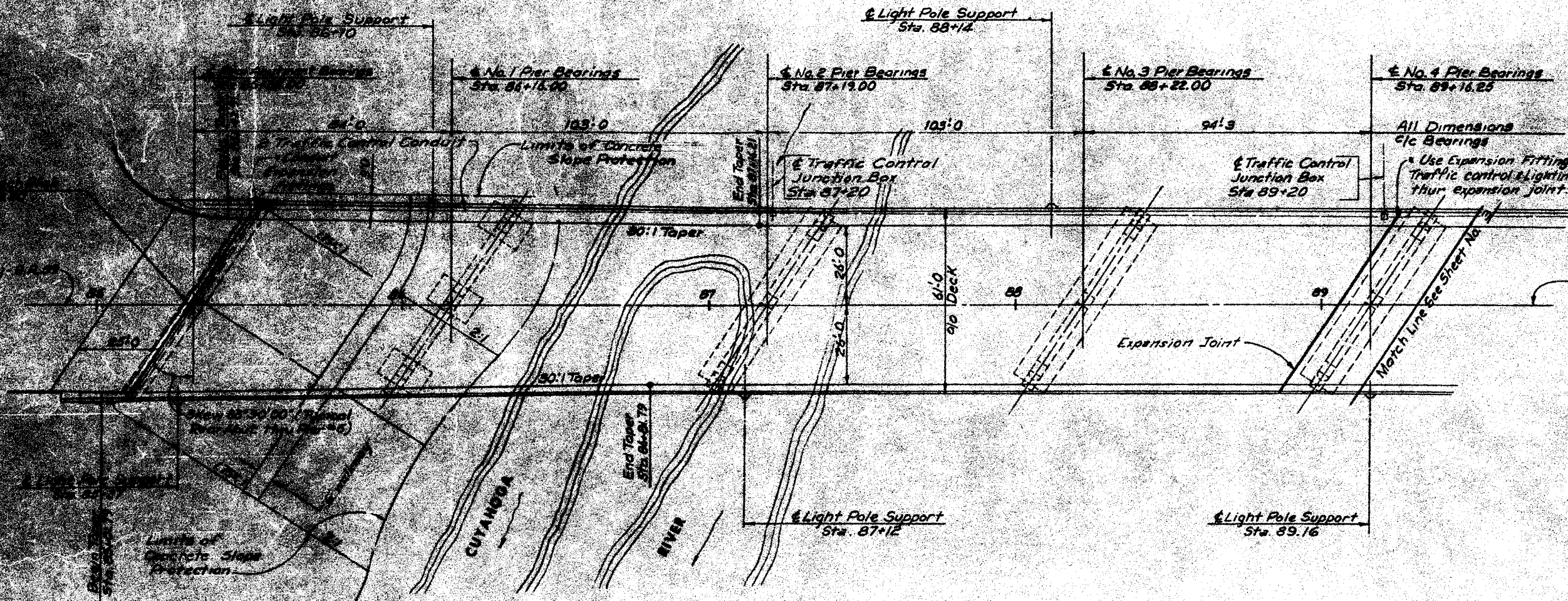
Earthwork limits shown schematic. Actual slopes conform to plan cross

W. E. QUICKSALL AND ASSOCIATES
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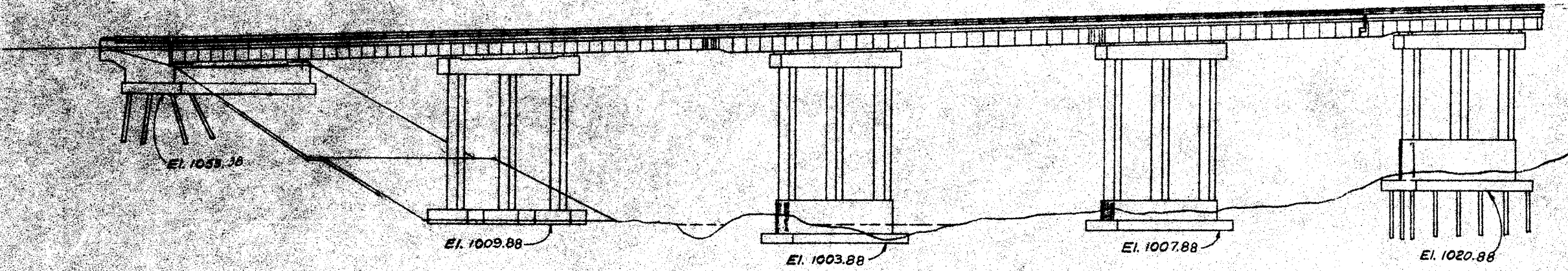
SITE PLAN
 BRIDGE NO. POR-59-0.80
 S.R. 59 over B. & O. and ERIE R.R. and CUYAHOGA RIVER
 PORTAGE COUNTY
 PRESENT TOPOGRAPHY
 SURVEYED BY Kucera
 DRAWN BY S.M.
 CHECKED BY W.C.
 DESIGNED BY W.C.
 DATE 11/73

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

POR-59-0.80
 POR-43-11.66
 POR-43DA-0.00



PLAN



ELEVATION

For expansion fittings for lighting conduits see Standard drawing HL-5.

Note:
 10BP42 Piles in Rear Abutment
 and 12BP53 Piles in Pier #4. Entire
 number not shown.

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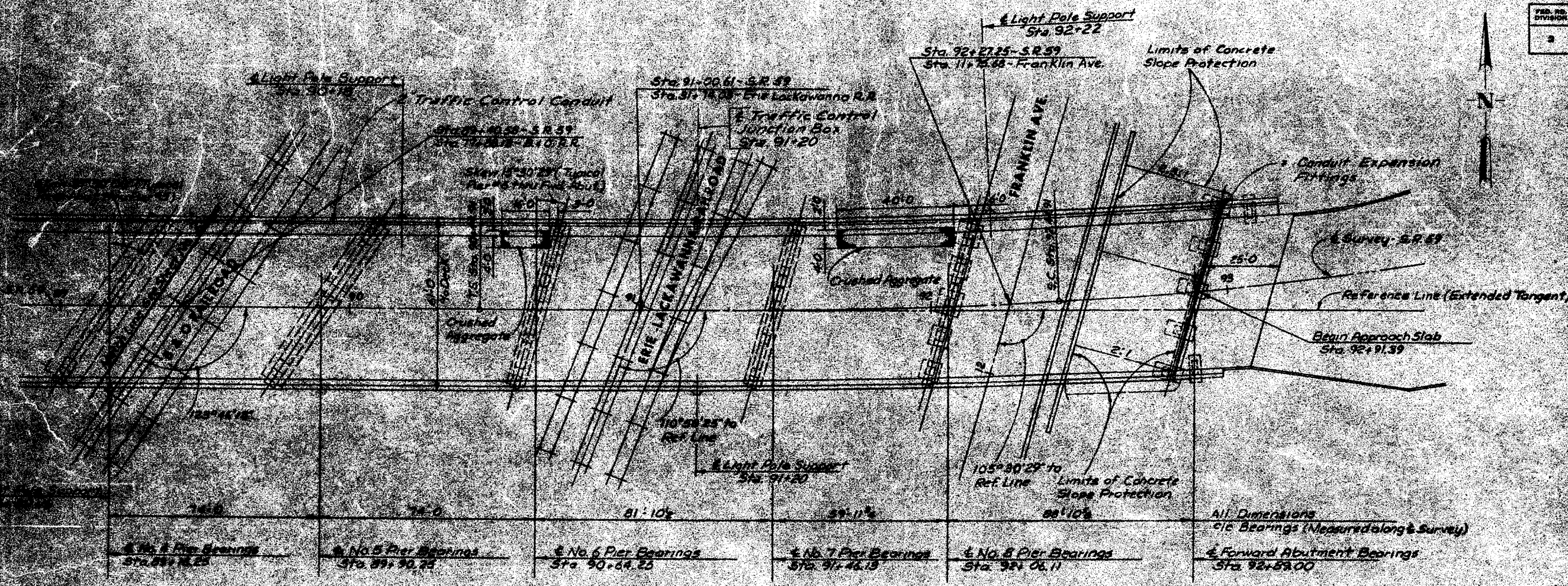
**GENERAL PLAN &
 BRIDGE NO. PO1**
 S.R. 59 over B&O R.R., EX
 R.R. & CUYAHOGA
 PORTAGE COUNTY

DESIGNED	DRAWN	CHECKED	DATE
	PMZ		wdh

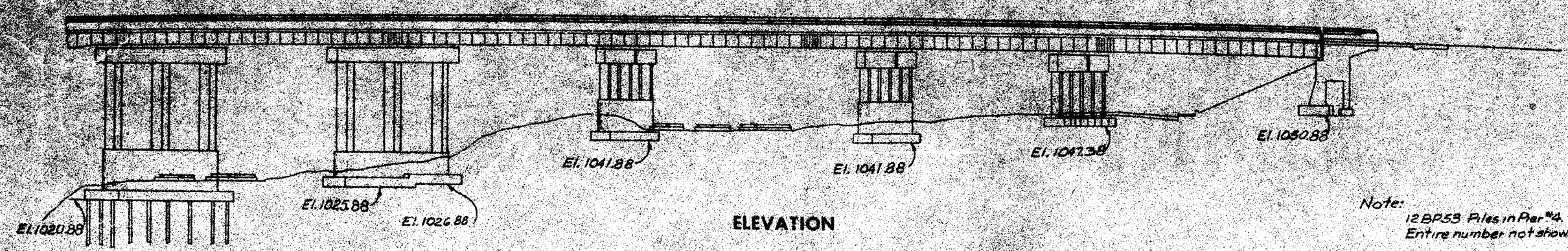
For continuation of General
 Plan & Elevation, See sheet 3

FED. NO. DIVISION	STATE	PROJECT
3	OHIO	

POR-59-080
 POR-43-11-65
 POR-43DA-000



PLAN



ELEVATION

Note:
 12 BP53 Files in Pier #4.
 Entire number not shown.

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GENERAL PLAN & I
BRIDGE NO. POR-5
S.R. 59 over B&O R.R., ERIE
R.R. & CUYAHOGA R.

PORTAGE COUNTY

DESIGNED	DRAWN	CHECKED	APPROVED
FWZ	WJM	WJM	WJM

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

POR-59-0.80
 POR-43-11.66
 POR-43DA-0.00

* Fed., State & City

See Sh. 241 A for Altered Estimated Quantities

TOP OF DECK SLAB ELEVATIONS				
STATION	PROFILE GRADE	CURB LINE ELEV.		
		LI.	C.	RI.
85+11.02	1067.59	--	--	1066.97
85+25	1067.72	--	--	1067.14
85+32.00	1067.80	--	1067.68	--
85+50	1068.06	--	1067.98	1067.51
85+52.81	1068.10	1067.49	--	--
85+75	1068.51	1067.95	1068.44	1067.94
85+96.92	1068.99	--	--	1068.42
86+00	1069.07	1068.52	1068.97	1068.50
86+16.00	1069.47	--	1069.35	--
86+25	1069.69	1069.13	1069.58	1069.16
86+35.00	1069.94	1069.37	--	--
86+50	1070.31	1069.76	1070.23	1069.82
86+75	1070.93	1070.42	1070.86	1070.42
87+00	1071.55	1071.05	1071.45	1071.03
87+01.79	1071.59	--	--	1071.07
87+19.00	1072.02	--	1071.90	--
87+25	1072.17	1071.66	1072.06	1071.67
87+36.21	1072.45	1071.92	--	--
87+50	1072.79	1072.28	1072.71	1072.32
87+75	1073.41	1072.93	1073.34	1072.92
88+00	1074.03	1073.55	1073.93	1073.51
88+04.79	1074.15	--	--	1073.62
88+22.00	1074.55	--	1074.43	--
88+25	1074.62	1074.11	1074.50	1074.11
88+39.21	1074.92	1074.39	--	--
88+50	1075.13	1074.62	1075.05	1074.66
88+75	1075.58	1075.10	1075.51	1075.08
88+99.04	1075.95	--	--	1075.47
89+00	1075.96	1075.47	1075.85	1075.49
89+16.25	1076.17	--	1076.05	--
89+25	1076.27	1075.74	1076.17	1075.90
89+33.46	1076.36	1075.84	--	--
89+50	1076.52	1076.02	1076.45	1076.21
89+73.04	1076.68	--	--	1076.38
89+75	1076.69	1076.22	1076.60	1076.40
89+90.25	1076.77	--	1076.65	--
90+00	1076.80	1076.29	1076.68	1076.60
90+07.46	1076.82	1076.29	--	--
90+25	1076.84	1076.31	1076.73	1076.70
90+50	1076.81	1076.28	1076.69	1076.74
90+57.03	1076.78	--	--	1076.72
90+64.25	1076.76	--	1076.64	--
90+71.49	1076.72	1076.20	--	--
90+75	1076.71	1076.19	1076.61	1076.77
91+00	1076.54	1076.08	1076.49	1076.77
91+25	1076.52	1075.83	1076.23	1076.63
91+38.59	1076.15	--	--	1076.51
91+46.13	1076.05	--	1075.93	--
91+50	1076.00	1075.35	1075.87	1076.41
91+53.78	1075.95	1075.27	--	--
91+75	1075.82	1074.82	1075.48	1076.15
91+98.02	1075.22	--	--	1075.89
92+00	1075.18	1074.25	1075.05	1075.87
92+06.11	1075.06	--	1074.94	--
92+14.38	1074.90	1073.90	--	--
92+25	1074.67	1073.66	1074.61	1075.55
92+50	1074.09	1073.03	1074.07	1075.10
92+75	1073.45	1072.37	1073.38	1074.39
92+79.76	1073.32	--	--	1074.23
92+89.00	1073.05	--	1072.93	--
92+98.51	1072.78	1071.62	--	--

ESTIMATED QUANTITIES									
ITEM	TOTAL*	UNIT	DESCRIPTION	ABUT.	PIERS	SUPER	GENERAL	AS BUILT	AS BUILT
503	Lump	Sum	Cofferdams, cribs and sheeting				Lump		
503	1185	Cu. Yd.	Unclassified Excavation	355	830				
503	384	Cu. Yd.	Rock Excavation	4	580				
505	Lump	Sum	Test Pile				Lump		
507	870	Lin. Ft.	Steel Piles, #HP10x42	870	750				
507	468	Lin. Ft.	Steel Piles, #HP12x53		468				
509	23,228	Lbs.	Reinforcing Steel	23,228	210,265	423,395			
511	1510	Cu. Yd.	Class 'C' Concrete, Superstructure			1510			
511	744	Cu. Yd.	Class 'C' Concrete, Pier Caps and Columns		744				
511	220	Cu. Yd.	Class 'C' Concrete, Abutments above Footings	220					
511	601	Cu. Yd.	Class 'C' Concrete, Footings	101	494				
511	475	Cu. Yd.	Class 'C' Concrete, Pier Walls		475				
512	38	Lin. Ft.	Premolded Sealing Strip	38					
513	1,245,400*	Lbs.	Structural Steel			1,245,400*			
514	1,229,200*	Lbs.	Field Painting of Structural Steel			1,229,200*			
517	1593.07	Lin. Ft.	Railing - Bridge sidewalk railing with concrete parapet	75.25		1517.82			
518	76	Cu. Yd.	Porous Backfill	76					
518	38	Each	Scuppers, including Supports			38			
518	138	Lin. Ft.	6" Perforated Helical C.M.P. including Specials (707.01)	138					
518	91	Lin. Ft.	6" Non-perforated Helical C.M.P. (707.01)	91					
601	38	Sq. Yd.	Crushed Aggregate Slope Protection				38		
601	1729	Sq. Yd.	Concrete Slope Protection	1729					
625			See Sheet No. 171 for Lighting Summary						
808	1510	Unit	Chemical admixture for concrete Type A, B or D			1510			
			* 19,140 pounds to be paid for by the Ohio Bell Co.						
625			See Sheet No. 200 for Traffic Control Summary						
404	125	Cu. Yd.	Asphalt concrete (70-85 or AC 20)			125			
Special	63	Cu. Yd.	Sand-Asphalt (See proposal note)			63			
Special	4,500	Sq. Yd.	Membrane waterproofing, sheet Type (See Proposal Note)			4,500			

GENERAL NOTES

‡ HP12x53 piles formerly designated I2BP53, † HP10x42 piles formerly I0BP42
 DESIGN SPECIFICATIONS: This structure conforms to 'Standard Specifications for Highway Bridges' adopted by the American Association of State Highway Officials, 1965, including the Ohio Supplement to these specifications.

DESIGN DATA:

- Design Loading: - HS20-44
- Concrete Class C: - Unit Stress 1200 p.s.i. for superstructure
 Unit Stress 1335 p.s.i. for substructure
- Structural Steel: - ASTM A-36; unit stress 20,000 p.s.i.
- Reinforcing Steel: - ASTM A615, A616 or A617 unit stress 20,000 p.s.i.

REFERENCE shall be made to:

- | | |
|--------------------------|------------------------------|
| Standard Drawings: | Supplemental Specifications: |
| SD-1-69, dated 6-12-69 | 808, dated 1-1-71 |
| AS-1-67, revised 6-12-69 | |
| RB-1-55, revised 2-2-59 | 836, dated 1-1-71 |
| BR-2-67, dated 10-15-71 | 927, dated 1-1-71 |

CONSTRUCTION PROCEDURE: Rear Abutment and Pier 1

After the footings for Pier 1 have been built, the embankments shall be constructed to the level of the subgrade for a minimum distance of 200 feet back of the abutment. Excavation shall then be made for the abutment and Pier 1 columns. Refer to the project plan, sheets 39 and 74A, for details of benching the foundation slopes.

CONSTRUCTION PROCEDURE: Forward Abutment.

After the pedestals have been built, the embankment shall be constructed to the level of the subgrade for a minimum distance of 200 feet back of the abutment. Excavation shall then be made for the abutment cross beams.

FORWARD ABUTMENT EXCAVATION QUANTITY, in addition to 503.11, includes the excavation for the cross beams.

† If bars in accordance with ASTM A616 are provided they shall be subject to bend tests as per AASHTO Designation M42-70. Spiral reinforcement may be plain bars ASTM A82, A306, A499 or A615

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

- | | |
|---------------------|--|
| Rear Abutment piles | 40 tons per pile using a 15,000 ft. lb. hammer |
| Pier 4 piles | 45 tons per pile using a 11,000 ft. lb. hammer
70 tons per pile using a 15,000 ft. lb. hammer
75 tons per pile using a 11,000 ft. lb. hammer |

If the energy rating of the hammer is between the rating as shown above, the required formula capacity shall be determined by interpolation. The design load is 35 tons per pile at the Rear Abutment and 40 tons per pile at Pier 4.

FOUNDATION BEARING PRESSURE: The forward abutment footings are designed for a maximum bearing pressure of 4 tons per sq. ft. All pier footings except Pier 4 are designed for a maximum bearing pressure of 6 tons per sq. ft.

FOOTINGS shall extend a minimum of 3 inches into bedrock or to the elevation shown, whichever is lower.

UTILITY LINES: All expense involved in relocating the affected utility lines shall be borne by the owners. The Contractor and Owners are requested to cooperate in arranging their work in such a manner that inconvenience to either would be held to a minimum.

MAINTENANCE OF TRAFFIC: Two lanes of traffic with a minimum horizontal width of 20'-0" and a minimum vertical clearance of 15'-0" shall be maintained on Franklin Avenue, except for short periods of time during the erection of the structural steel.

GENERAL NOTES CON'T.

CONSTRUCTION CLEARANCE of 20' vertically above the top of the railroad rails and 8' horizontally from the center of tracks shall be maintained at all times. (Erie-Lackawanna)

RAILROAD AERIAL LINES will be relocated by the Railroad. The Contractor shall use all precautions necessary to see that the lines are not disturbed during the construction stage and shall cooperate with the Railroad in the relocation of these lines. The cost of the relocation shall be included in the railroad force account.

END DAM PAINTING: Portions of end dams which will be in contact with steel or with concrete shall not be painted. All other portions shall be cleaned and painted in accordance with 514.

REINFORCING STEEL CLEARANCE shall be 2" from face of concrete to face bar on all bars except in footings. Footing reinforcing steel shall be 3" clear from all concrete faces.

WELDS on non-stress carrying members are shown thus: 

SHEETING AND BRACING PLANS for excavation adjacent to railroad track shall be approved by the Director and by the railroad company before work on this excavation may begin. (Item 501.06)

Traffic Control: For conduit extension thru abutment backwall and expansion fitting at abutments a deck expansion joint, refer to Standard Construction Drawings HL-4, dated 1-1-66.

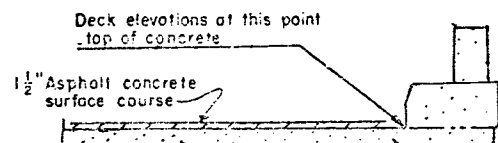
Construction clearance of 21' vertically above the top of the railroad rails and 8' horizontally from the center of tracks shall be maintained at all times. (B & O).

For lighting details, See Standard Drawing HL-3, HL-4, HL-5 & HL-7.

NOTE:

Elevations shown are at the intersection of the abutment and pier of bearings and at even 25' stations. Elevations are at face of curb and survey.

Elevations are those required before deck concrete is placed to allow for dead load deflection caused by the weight of the concrete.

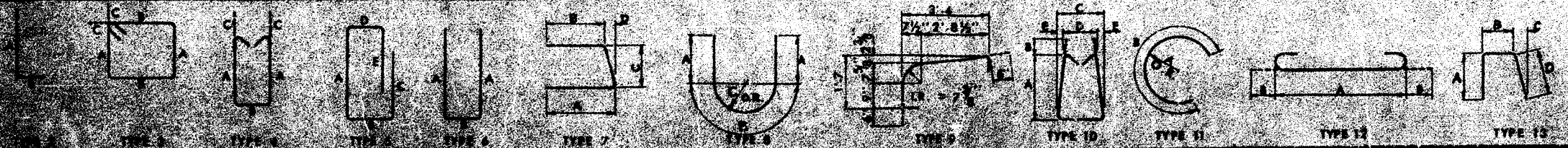


W.E.Q. BR
 Sheet 4

W. E. QUICKSALL AND ASSOCIATES, INC.
 CONSULTING ENGINEERS • NEW PHILADELPHIA, OHIO

GENERAL NOTES, ESTIMATED QUANTITIES & SLAB ELEVATIONS
 BRIDGE NO. POR-59-0187
 S.R. 59 over B & O R.R., ERIE-LACKAWANNA R.R. & CUYAHOGA RIVER

PORTAGE COUNTY
 DESIGNED BY: [Signature] CHECKED BY: [Signature] DATE: 6-6-65
 DRAWN BY: [Signature] DATE: 6/6/65



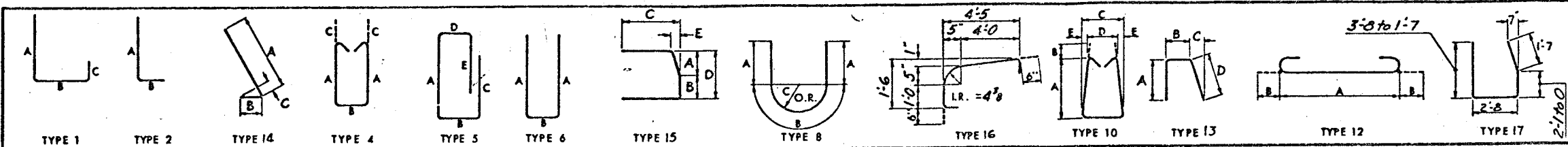
SUPERSTRUCTURE

MARK	TYPE	A	B	C	D	E	NO.	LENGTH	WEIGHT
5691	S						75	35'-4"	2694
5692	S						75	31'-8"	2543
5693	S						75	26'-7"	2187
5694	S						75	31'-2"	2503
5695	S						75	30'-4"	2422
5696	S						41	30'-9"	2577
5697	S						41	35'-5"	2948
5698	S						41	29'-9"	2453
5699	S						41	34'-5"	2804
5700	S						42	28'-9"	2468
5701	S						42	33'-4"	2862
5702	S						26	27'-8"	2401
5703	S						44	32'-8"	3040
5704	S						20	31'-2"	2403
5705	S						20	40'-4"	3723
5706	S						42	35'-11"	3704
5707	S						41	35'-4"	3276
5708	S						41	34'-9"	2912
5709	S						41	38'-4"	3612
5710	S						41	33'-8"	2829
5711	S						42	37'-4"	3205
5712	S						42	35'-8"	2804
5713	S						42	31'-11"	2536
5714	S						2	4'-3"	3063
5715	S						132	10'-7"	
5716	S						7	7'-4"	1071
5717	S						225	34'-7"	
5718	S						1	8'-4"	1049
5719	S						24	24'-5"	
5720	S						2	5'-7"	1827
5721	S						129	31'-8"	
5722	S						1	2'-9"	835
5723	S						125	29'-11"	
5724	S						1	3'-9"	884
5725	S						224	29'-10"	
5726	S						1	10'-4"	455
5727	S						10	34'-2"	
5728	S						2	6'-0"	2437
5729	S						28	36'-7"	
5730	S						2	5'-9"	853
5731	S						11	32'-2"	
5732	S						1	5'-9"	361
5733	S						10	29'-7"	
5734	S						1	8'-2"	775
5735	S						20	29'-9"	
5736	S						1	3'-7"	586
5737	S						20	25'-1"	
5738	S						10	5'-6"	112
5739	S						20	5'-0"	204
5801	S						2633	30'-0"	118643
5802	S						31	18'-3"	830

SUPERSTRUCTURE CONTINUED

MARK	TYPE	A	B	C	D	E	NO.	LENGTH	WEIGHT
5803	S						69	18'-0"	1357
5804	S						69	18'-0"	1357
5805	S						69	18'-0"	1357
5806	S						69	18'-0"	1357
5807	S						69	18'-0"	1357
5808	S						69	18'-0"	1357
5809	S						69	18'-0"	1357
5810	S						69	18'-0"	1357
5811	S						69	18'-0"	1357
5812	S						69	18'-0"	1357
5813	S						69	18'-0"	1357
5814	S						69	18'-0"	1357
5815	S						69	18'-0"	1357
5816	S						69	18'-0"	1357
5817	S						69	18'-0"	1357
5818	S						69	18'-0"	1357
5819	S						69	18'-0"	1357
5820	S						69	18'-0"	1357
5821	S						69	18'-0"	1357
5822	S						69	18'-0"	1357
5823	S						69	18'-0"	1357
5824	S						69	18'-0"	1357
5825	S						69	18'-0"	1357
5826	S						69	18'-0"	1357
5827	S						69	18'-0"	1357
5828	S						69	18'-0"	1357
5829	S						69	18'-0"	1357
5830	S						69	18'-0"	1357
5831	S						69	18'-0"	1357
5832	S						69	18'-0"	1357
5833	S						69	18'-0"	1357
5834	S						69	18'-0"	1357
5835	S						69	18'-0"	1357
5836	S						69	18'-0"	1357
5837	S						69	18'-0"	1357
5838	S						69	18'-0"	1357
5839	S						69	18'-0"	1357
5840	S						69	18'-0"	1357
5841	S						69	18'-0"	1357
5842	S						69	18'-0"	1357
5843	S						69	18'-0"	1357
5844	S						69	18'-0"	1357
5845	S						69	18'-0"	1357
5846	S						69	18'-0"	1357
5847	S						69	18'-0"	1357
5848	S						69	18'-0"	1357
5849	S						69	18'-0"	1357
5850	S						69	18'-0"	1357
5851	S						69	18'-0"	1357
5852	S						69	18'-0"	1357
5853	S						69	18'-0"	1357
5854	S						69	18'-0"	1357
5855	S						69	18'-0"	1357
5856	S						69	18'-0"	1357
5857	S						69	18'-0"	1357
5858	S						69	18'-0"	1357
5859	S						69	18'-0"	1357
5860	S						69	18'-0"	1357
5861	S						69	18'-0"	1357
5862	S						69	18'-0"	1357
5863	S						69	18'-0"	1357
5864	S						69	18'-0"	1357
5865	S						69	18'-0"	1357
5866	S						69	18'-0"	1357
5867	S						69	18'-0"	1357
5868	S						69	18'-0"	1357
5869	S						69	18'-0"	1357
5870	S						69	18'-0"	1357
5871	S						69	18'-0"	1357
5872	S						69	18'-0"	1357
5873	S						69	18'-0"	1357
5874	S						69	18'-0"	1357
5875	S						69	18'-0"	1357
5876	S						69	18'-0"	1357
5877	S						69	18'-0"	1357
5878	S						69	18'-0"	1357
5879	S						69	18'-0"	1357
5880	S						69	18'-0"	1357
5881	S						69	18'-0"	1357
5882	S						69	18'-0"	1357
5883	S						69	18'-0"	1357
5884	S						69	18'-0"	1357
5885	S						69	18'-0"	1357
5886	S						69	18'-0"	1357
5887	S						69	18'-0"	1357
5888	S						69	18'-0"	1357
5889	S						69	18'-0"	1357
5890	S						69	18'-0"	1357
5891	S						69	18'-0"	1357
5892	S						69	18'-0"	1357
5893	S						69	18'-0"	1357
5894	S						69	18'-0"	1357
5895	S						69	18'-0"	1357
5896	S						69	18'-0"	1357
5897	S						69	18'-0"	1357
5898	S						69	18'-0"	1357
5899	S						69	18'-0"	1357
5900	S						69	18'-0"	1357
5901	S						69	18'-0"	1357
5902	S						69	18'-0"	1357
5903	S						69	18'-0"	1357
5904	S						69	18'-0"	1357
5905	S						69	18'-0"	1357
5906	S						69	18'-0"	1357
5907	S						69	18'-0"	1357
5908	S						69	18'-0"	1357
5909	S						69	18'-0"	1357
5910	S						69	18'-0"	1357
5911	S						69	18'-0"	1357
5912	S						69	18'-0"	1357
5913	S						69	18'-0"	1357
5914	S						69	18'-0"	1357
5915	S						69	18'-0"	1357
5916	S						69	18'-0"	1357
5917	S						69	18'-0"	1357
5918	S						69	18'-0"	1357
5919	S						69	18'-0"	1357
5920	S						69	18'-0"	1357
5921	S						69	18'-0"	1357
5922	S						69	18'-0"	1357
5923	S						69	18'-0"	1357
5924	S						69	18'-0"	1357
5925	S						69	18'-0"	1357
5926	S						69	18'-0"	1357
5927	S						69	18'-0"	1357
5928	S						69	18'-0"	1357
5929	S						69	18'-0"	1357
5930	S						69	18'-0"	1357
5931	S						69	18'-0"	1357
5932	S						69	18'-0"	1357
5933	S						69	18'-0"	1357
5934	S						69	18'-0"	1357
5935	S						69	18'-0"	

POR-59-0.80
 POR-43-11.66
 POR-43DA-0.00



FORWARD ABUTMENT										
MARK	TYPE	A	B	C	D	E	NO.	LENGTH	WEIGHT	
B1101	S		6				20	9'-6"	1009	
B801	S						6	30'-6"	489	
B802	S						4	16'-6"	176	
B803	S						4	17'-0"	182	
B804	S						10	15'-0"	401	
B805	S						12	10'-3"	328	
B806	S						8	12'-0"	256	
B807	S						18	10'-6"	505	
B808	S						12	11'-10"	379	
B809	S						10	16'-0"	427	
B810	14	4'-6"	13"	7"			6	5'-5"	87	
B811	S						3	13'-9"	110	
B812	2	5'-3"	13"				30	6'-2"	494	
B813	S						3	12'-3"	98	
B701	5	8'-7"	1'-5"	7'-3"	11"	3'-3"	52	20'-9"	2205	
B702	1	9'-0"	1'-5"	8'-8"			5	18'-9"	192	
B703	5	2'-8"	1'-5"	1'-4"	11"	2'-0"	4	7'-8"	63	
B704	6	4'-8"	1'-5"				4	10'-5"	85	
B601	S						12	9'-6"	171	
B501	S						10	30'-6"	318	
B502	S						10	15'-0"	156	
B503	S						10	16'-0"	167	
B504	S						60	4'-6"	282	
B505	6	2'-6"	3'-5"				22	8'-2"	187	
B506	6	2'-8"	3'-5"				28	8'-6"	248	
B507	6	2'-11"	3'-5"				26	9'-0"	244	
B508	6	3'-2"	3'-5"				8	9'-6"	79	
B509	6	2'-11"	2'-8"				18	8'-3"	155	
B510	6	3'-7"	2'-8"				16	9'-7"	160	
B511	13	3'-5"	1'-5"	1'-2"	3'-8"		5	8'-3"	43	
B512	17	Varies by increments of 1'-0 1/2"					Set to 9'-9"	1	5'-7"	40
B513	S						2	10'-6"	22	
B514	S						2	3'-9"	8	
B515	S						8	19'-8"	164	
B516	S						10	16'-8"	174	
B517	S						6	13'-5"	84	
B518	S						10	11'-8"	122	
B519	S						2	7'-6"	16	
B520	S						16	6'-6"	108	
B521	S						16	6'-5"	107	
B522	S						18	5'-5"	102	
B523	2	6'-5"	7'-2"				18	6'-11"	130	
B524	4	2'-2"	8"	5"			19	5'-7"	111	
B525	6	2'-0"	1'-4"				14	5'-1"	74	
B526	15	8"	8"	2'-0"	1'-4"	2"	14	4'-11"	72	
B527	6	3'-6"	1'-2"				4	7'-11"	33	
B528	6	4'-8"	1'-2"				2	10'-3"	21	
B529	4	3'-7"	1'-2"	5"			5	8'-11"	47	
B530	4	5'-4"	1'-2"	5"			1	12'-5"	13	

See S1244A for silted Reinforcing steel list

FORWARD ABUTMENT CONTINUED									
MARK	TYPE	A	B	C	D	E	NO.	LENGTH	WEIGHT
B531	S						1	3'-7"	4
B532	S						1	4'-11"	5
B533	12	8'-3"	7"				6	9'-5"	59
B534	12	6'-3"	7"				7	7'-5"	54
B535	6	1'-3"	1'-2"				4	3'-5"	14
B536	6	2'-0"	1'-2"				4	4'-11"	21
B537	6	2'-10"	1'-2"				4	5'-9"	24
B538	6	3'-3"	1'-2"				4	7'-5"	31
B539	6	3'-10"	1'-2"				6	8'-7"	54
B540	S						2	9'-8"	20
B541	S						2	11'-10"	25
B542	S						2	4'-3"	9
B543	S						2	8'-5"	18

RAILING BARS									
MARK	TYPE	A	B	C	D	E	NO.	LENGTH	WEIGHT
R501	8	1'-3"	9"	3'-4"			16	3'-3"	*
R502	16						8	6'-7"	*
R503	1	3'-2"	4'-8"	8"			8	8'-3"	*
R504	4	3'-2"	8"	5"			16	7'-7"	*
R505	S						8	4'-8"	*
R506	S						4	20'-11"	*
R507	S						8	16'-8"	*
R508	S						4	19'-8"	*
R509	S						12	16'-9"	*
R510	S						4	13'-7"	*
R511	S						296	14'-8"	*
R512	S						8	13'-0"	*
R513	S						228	4'-8"	*
R514	S						28	3'-9"	*
R515	18	1'-3 1/2"	1'-11 1/2"	7 1/2"	1'-5"		8	6'-2"	*

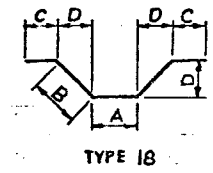
REPLACEMENT BARS									
MARK	TYPE	A	B	C	D	E	NO.	LENGTH	WEIGHT
RE1101	Str.						5	5'-6"	
RE1001	Str.						2	8'-2"	
RE901	Str.						1	7'-10"	
RE801	Str.						1	7'-6"	
RE701	Str.						14	7'-2"	
RE601	Str.						9	6'-11"	
RE501	Str.						2	6'-7"	
RE401	Str.						1	6'-3"	

NOTES

BAR SIZE is indicated in the bar mark. The first digit where three digits are used, and the first two digits where four are used, indicate the bar size number. For example, A700 is a No. 7 size bar and A1014 is a No. 10 size.

SPIRAL REINFORCING BARS: The 'Length' shown in the steel list for the spiral bars is the distance from the top of the footing to the bottom of the pier cap. The 'No. of Turns' shown is the 'Length' divided by the pitch, plus 3 turns (total number of closed coils), expressed as the nearest whole number. Spiral reinforcing bars may have deformations and shall in other respects conform to Item 509 1 1/2 closed coils shall be provided at the ends of each spiral unit. Four steel channel, tee or angle spacers, weighing approximately 0.68 lb. per lin. ft. of spacer, shall be equally spaced along the periphery of the coil. The number of pounds of these spacers based on 0.68 per lin. ft., will be paid for as reinforcing steel and is included in the tabulated quantity of spiral bars.

All dimensions are out-to-out.
 S in the 'TYPE' column indicates straight bars.
 * Include with railing for payment.



TYPE 18

W.E.Q. & A.
 Sheet 16

W. E. QUICKSALL AND ASSOCIATES, INC.
 CONSULTING ENGINEERS • NEW PHILADELPHIA

REINFORCING BAR SCHED
 BRIDGE NO. POR-59-0187
 S.R. 59 over B&O R.R., ERIE-LACKAWA
 R.R. & CUYAHOGA RIVER

STA. 8
 STA. 9

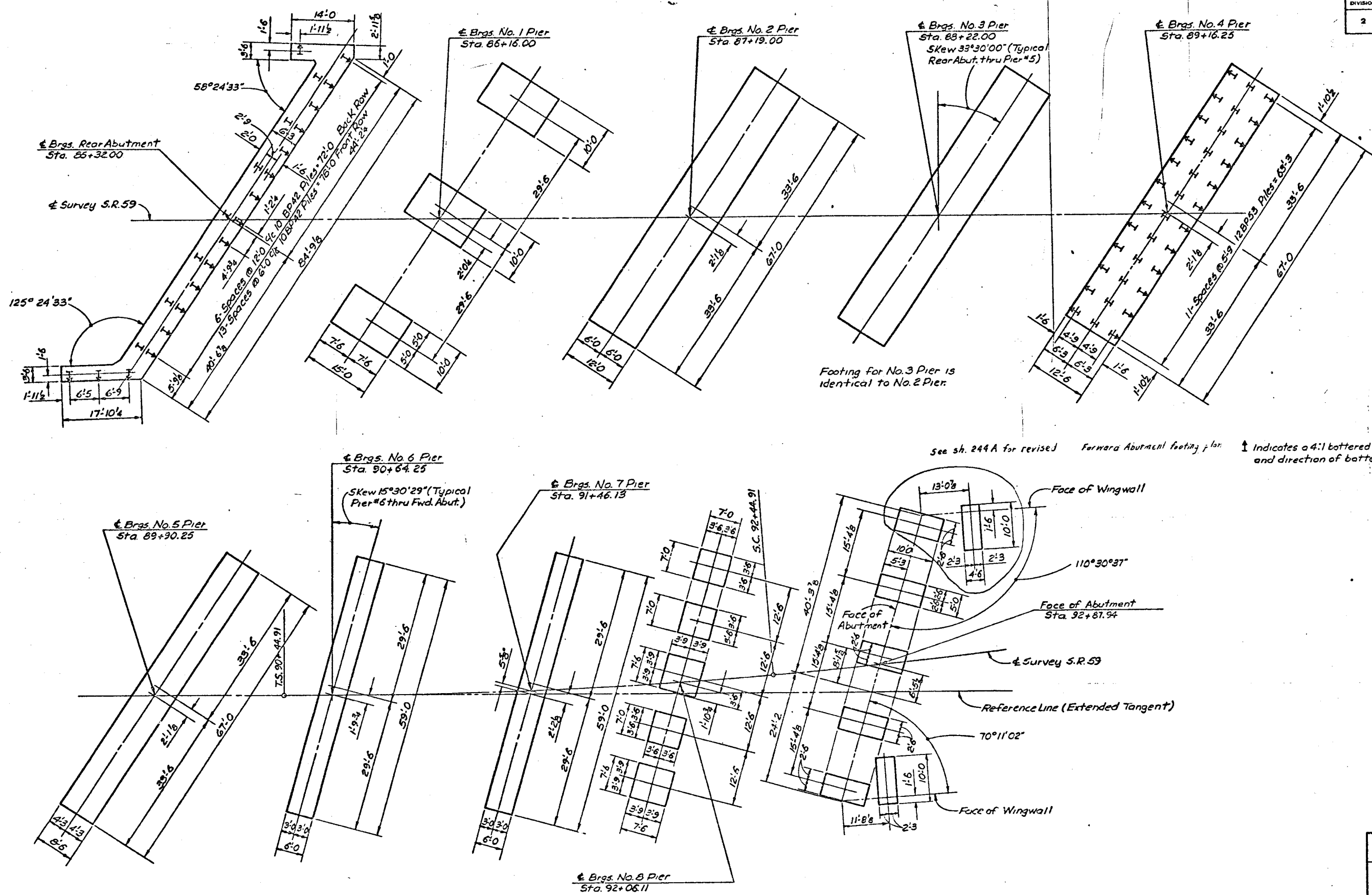
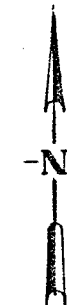
DESIGNED	DRAWN	CHECKED	APPROVED
		WOB	DLM G/GY

DATE: 6/69

For additional reinforcing steel, see sheet 7

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

POR-59-0.80
 POR-43-11.66
 POR-43DA-0.00



see sh. 244 A for revised Forward Abutment footing plan
 ↑ Indicates a 4:1 battered pile and direction of batter.

W.E.Q. BR
 Sheet 1

W. E. QUICKSALL AND ASSOCIATES, INC.
 CONSULTING ENGINEERS • NEW PHILADELPHIA.

FOOTING PLAN
 BRIDGE NO. POR-59-0187
 S.R. 59 over B&O R.R., ERIE-LACKAWA
 R.R. & CUYAHOGA RIVER
 PORTAGE COUNTY STA. 85
 STA. 92

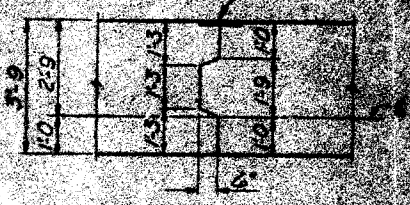
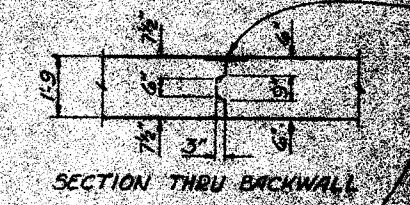
DESIGNED	DRAWN	CHECKED	APPROVED	DATE
	PMZ	wda	JLM	6/69

REV. 5-4-74

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

POR-59-0.80
 POR-43-11.66
 POR-43DA-0.80

12" x 1/2" Preformed Sealing Strip
 15" x 3/4" recess from top of face
 to bottom of Approach Slab



CONTRACTION JOINT DETAILS

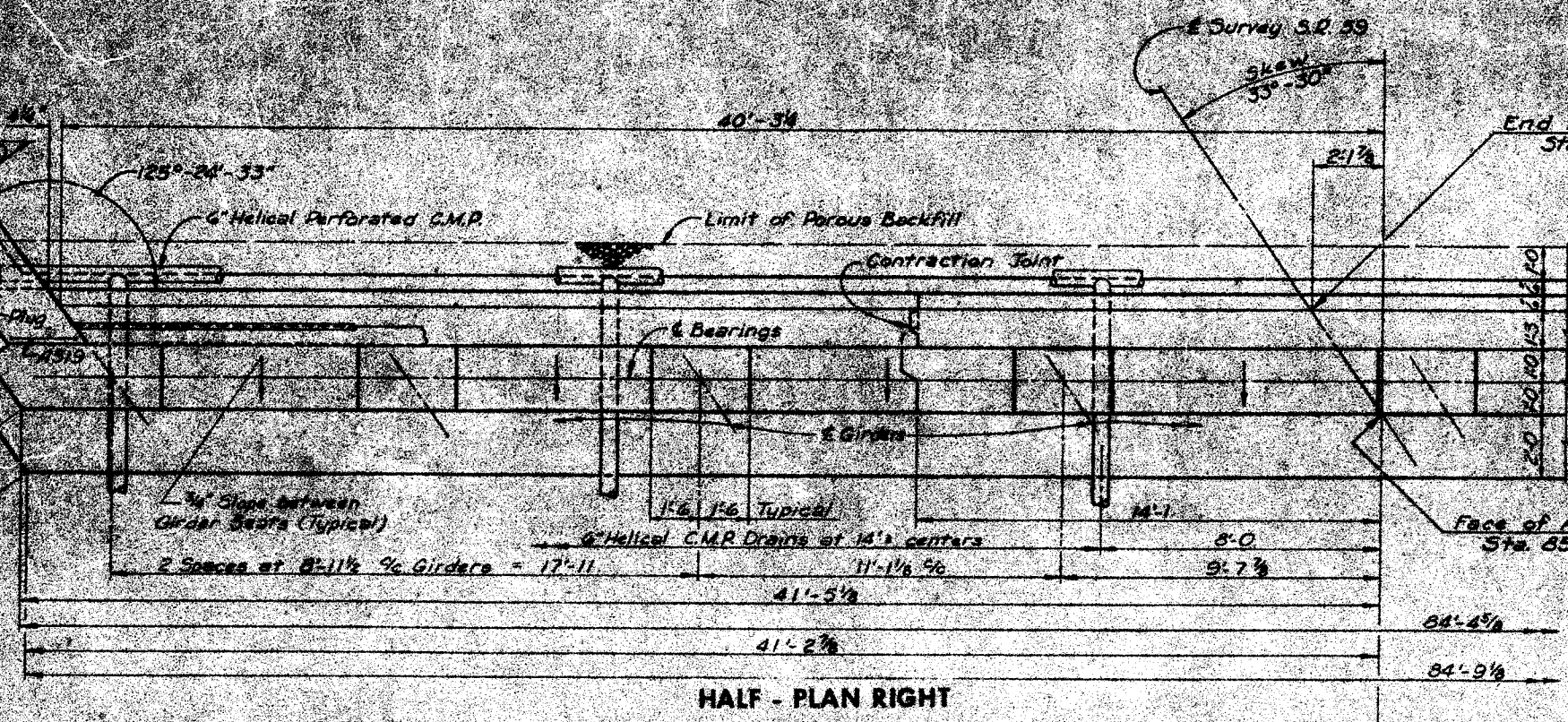
ELEVATIONS					
A	C	D	E	F	G
1067.06	1067.77	1061.17	1061.33	1060.37	1060.33

Note:
 For additional details
 see sheets 9 & 11

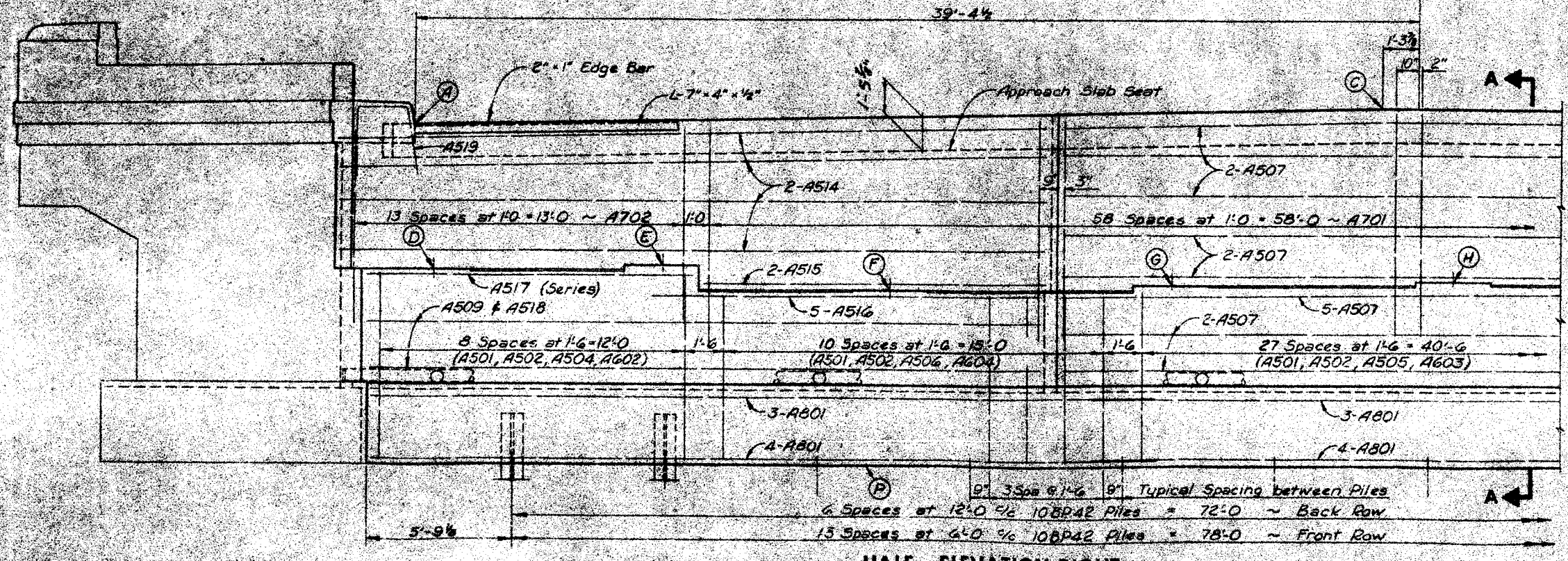
W.E.O. BR
 Sheer

W. E. QUICKSALL AND ASSOCIATES
 CONSULTING ENGINEERS - NEW PHSU
REAR ABUTMENT 0
 BRIDGE NO. POR-59
 S.R. 59 over B&O R.R., 188-4A
 R.R. & CUYAHOGA R.R.
 PORTAGE COUNTY

DESIGNED	CHECKED	APPROVED



HALF - PLAN RIGHT



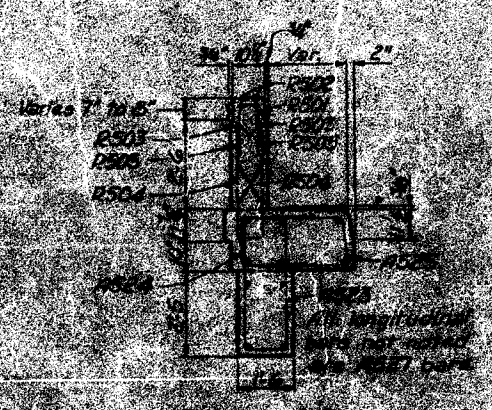
HALF - ELEVATION RIGHT

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

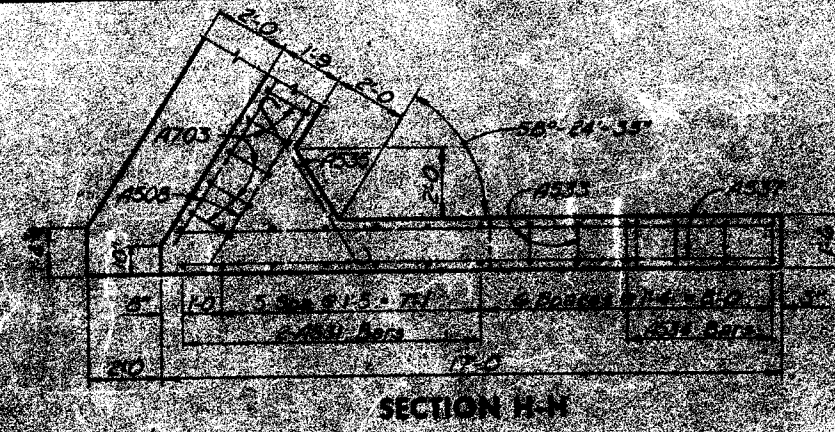
FOR 59-0-80
FOR 43-11-66
FOR 430A-000



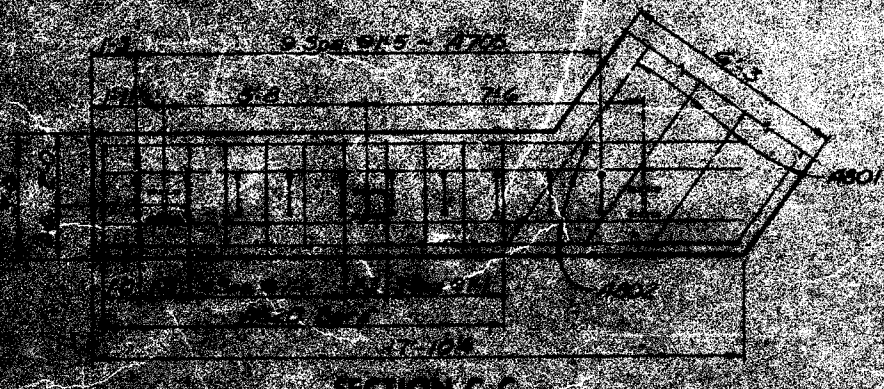
SECTION D-D



SECTION E-E



SECTION H-H



SECTION C-C

