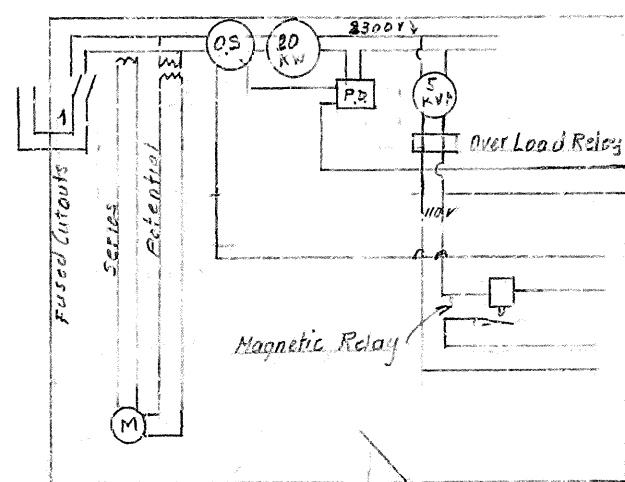
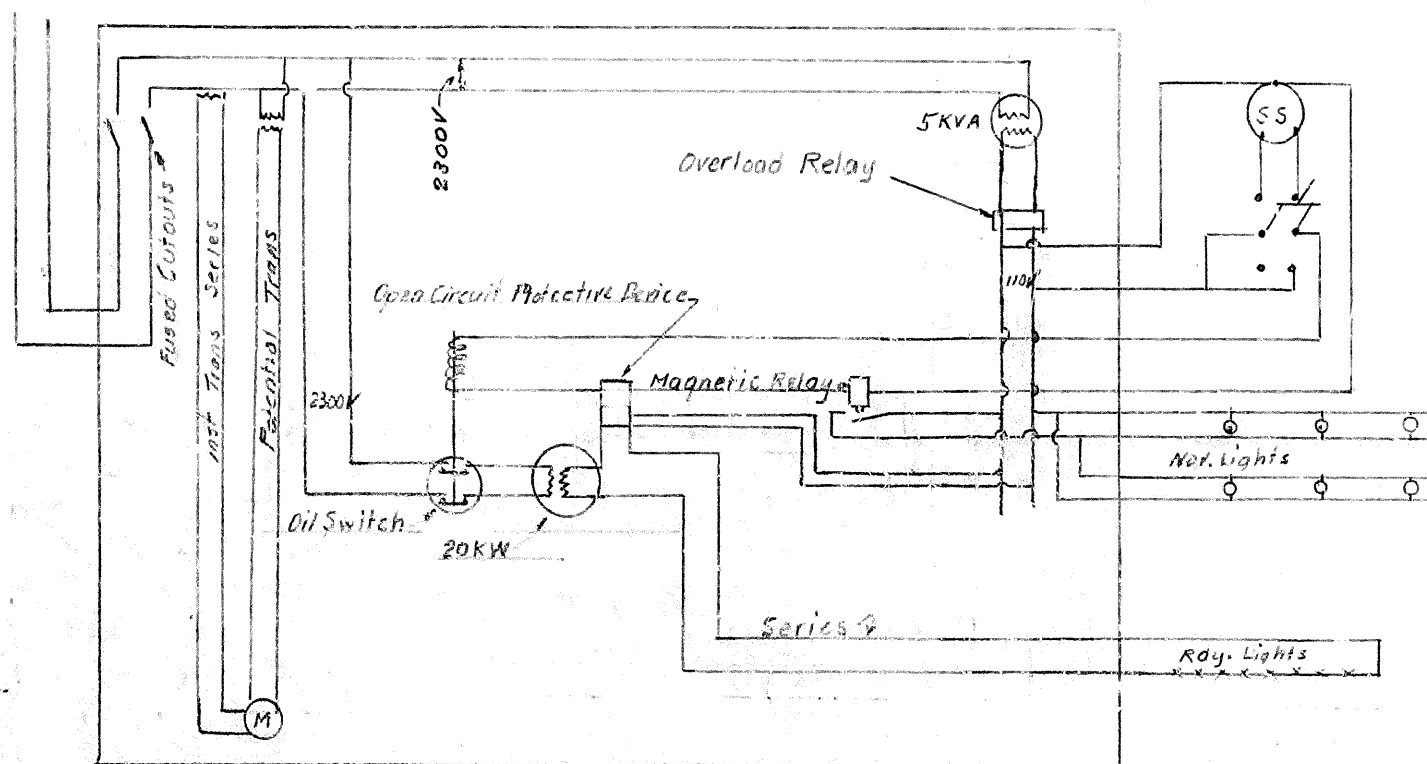
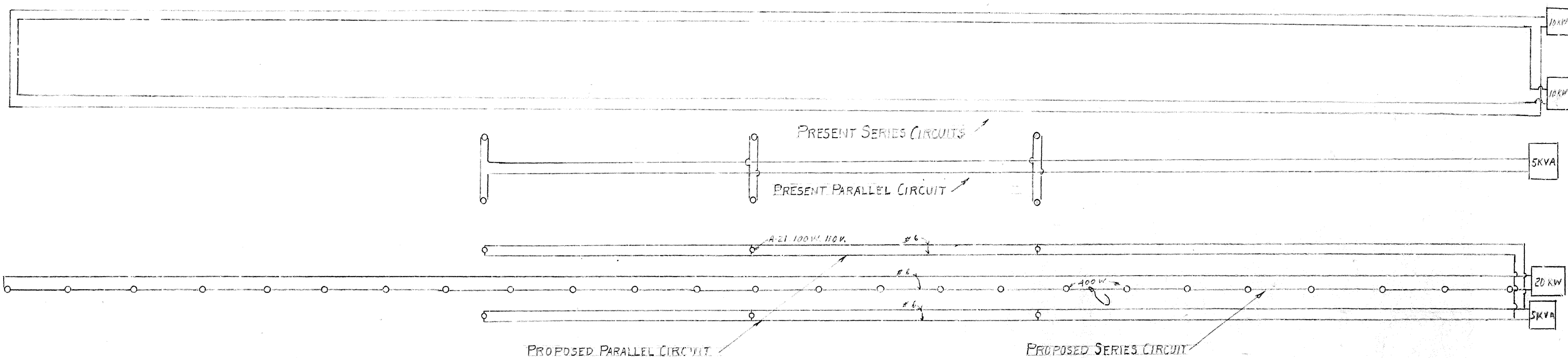
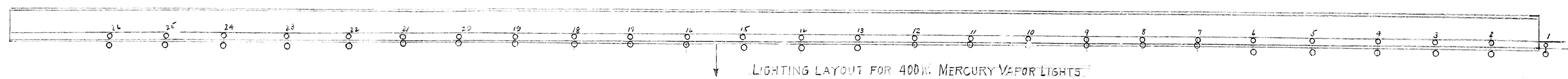
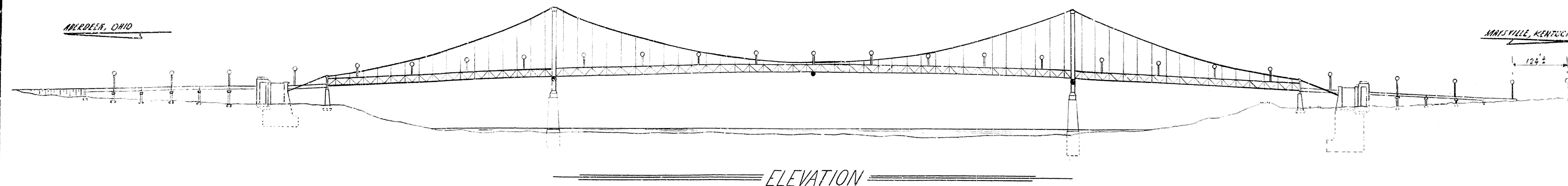


FED. ROAD DIST.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KY.				



Place all equipment in back of cage.
Change wiring to make instruments more accessible. Bottom of cage very dirty. Clean.

ESTIMATE OF QUANTITIES

FURNISH & INSTALL LIGHTING SYSTEM COMPLETE WITH ALL ACCESSORIES
1000' NO. 10 FLAME NOL WIRE, 5000'

LUMP SUM
LUMP SUM

* IT IS ASSUMED THAT THERE IS SUFFICIENT 5000' WIRE IN GOOD CONDITION ON THE BRIDGE TO REWIRE ACCORDING TO THIS PLAN. THE LUMP SUM BIDS FOR THIS PROJECT ASSUMES THAT NO ADDITIONAL 5000' WIRE WILL BE REQUIRED. IF ADDITIONAL WIRE IS REQUIRED IT IS TO BE PAID FOR EXTRA AT A PRICE BID PER 1000' FOR 5000V FLAME NOL WIRE.

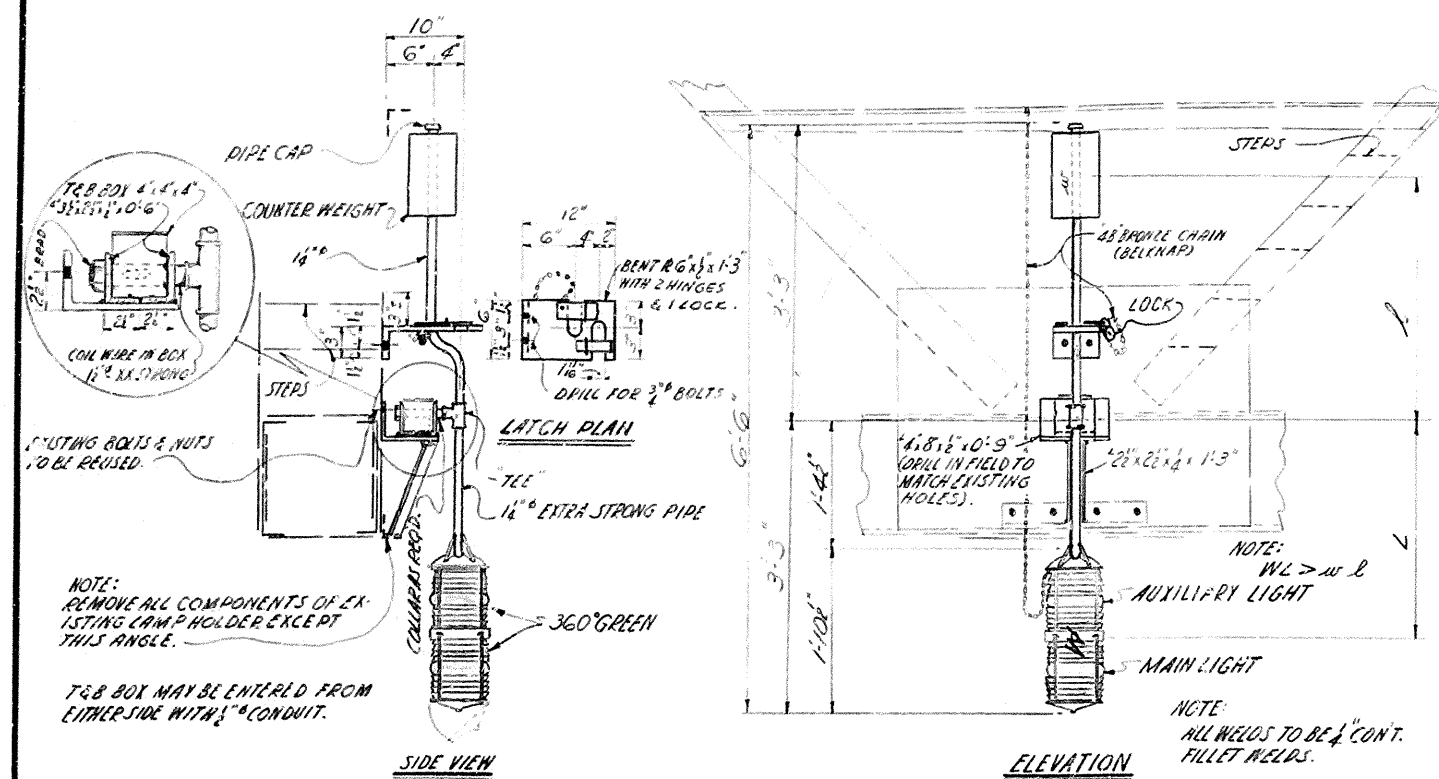
27
SHEET 1 OF 1

NAVIGATION & ROADWAY LIGHTS FOR BRIDGE OVER OHIO RIVER

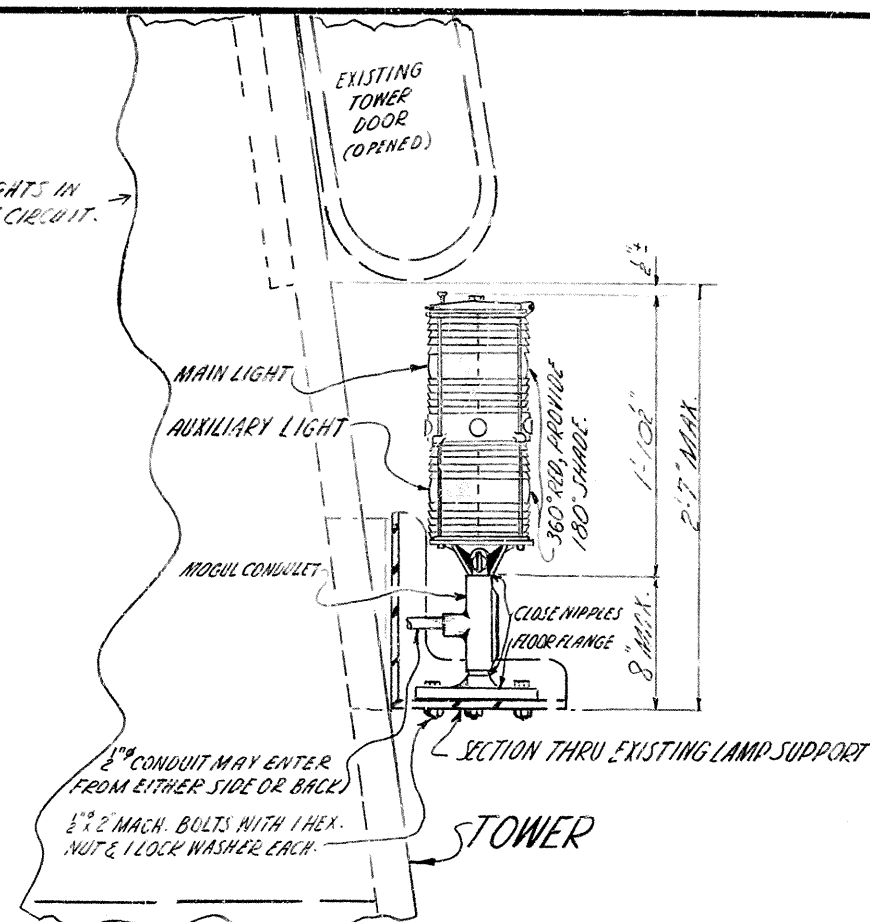
COMMONWEALTH OF KENTUCKY	
DEPARTMENT OF HIGHWAYS	
FRANKFORT COUNTY OF	
MASON	
MAYSVILLE KY - ABERDEEN OHIO	
ROAD	
STATION BRIDGE NUMBER	PROJECT NO. M.P. 81-4015-1
DRAWING NO. 13706	

DESIGNED BY: [Signature]
CHECKED BY: [Signature]
DATE: [Date]
REVISED BY: [Signature]
CHECKED BY: [Signature]
DATE: [Date]

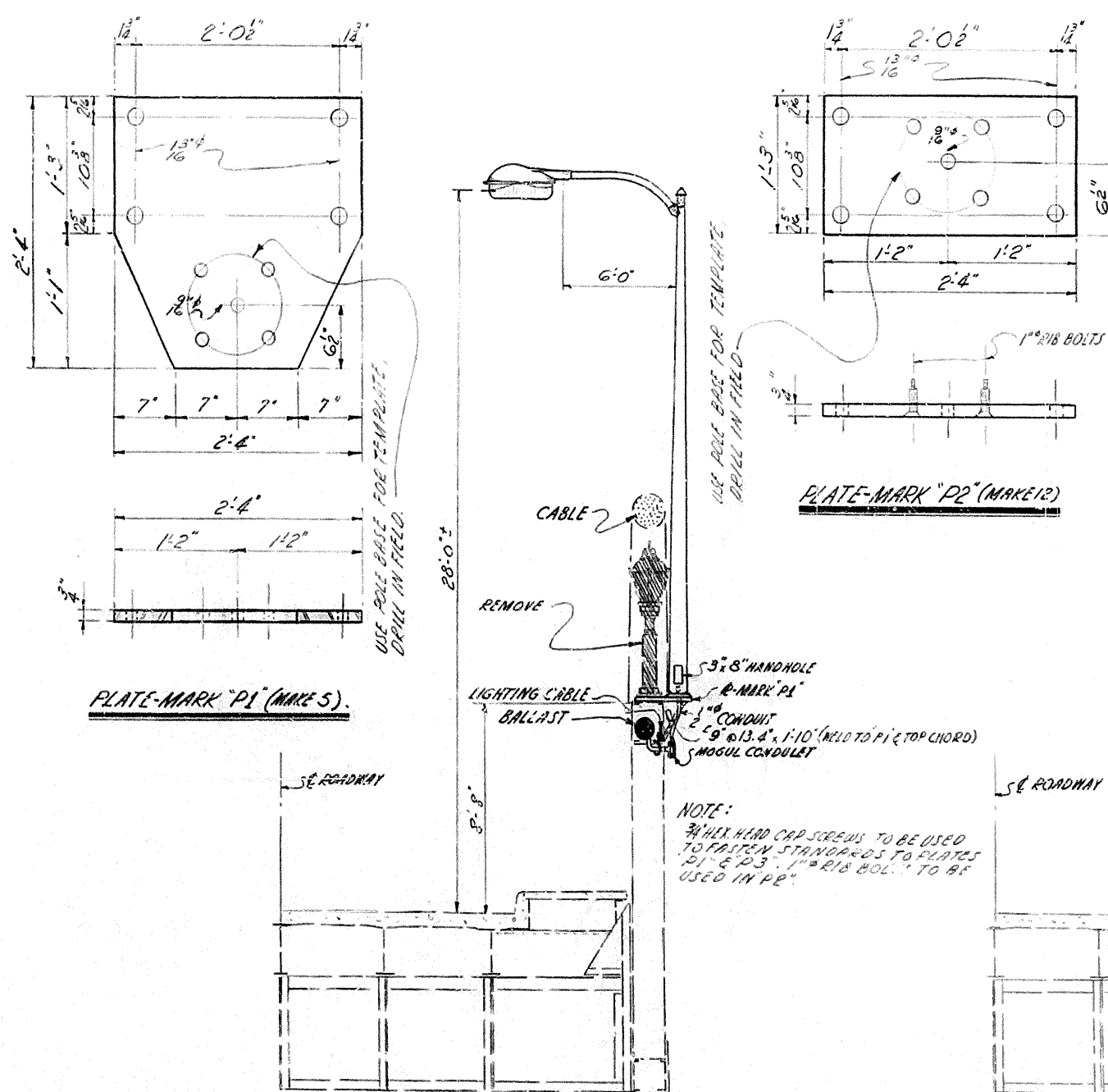
FED. ROAD DIST.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KY.				



CHANNEL MARKER

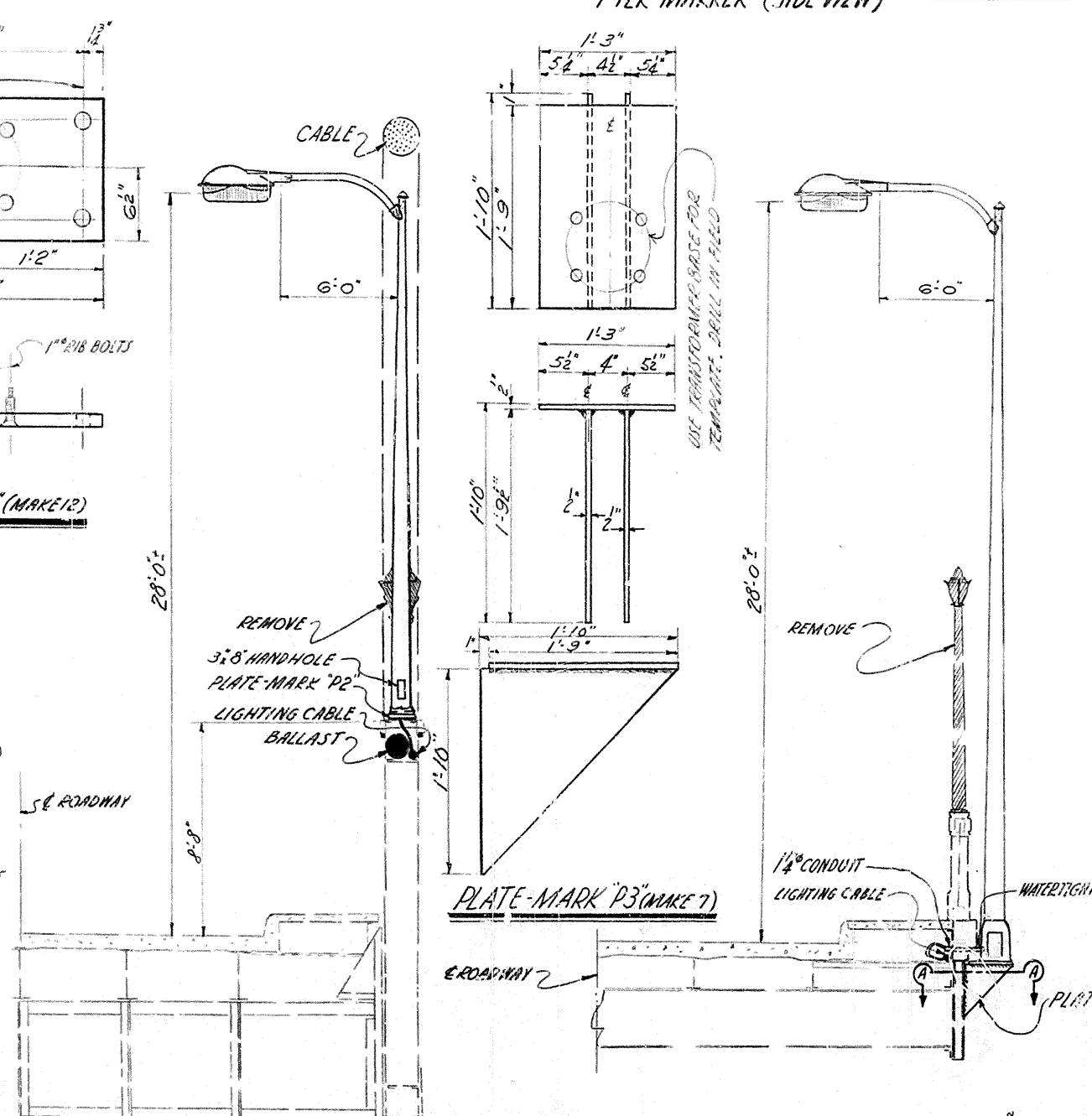


PIER MARKER (SIDE VIEW)



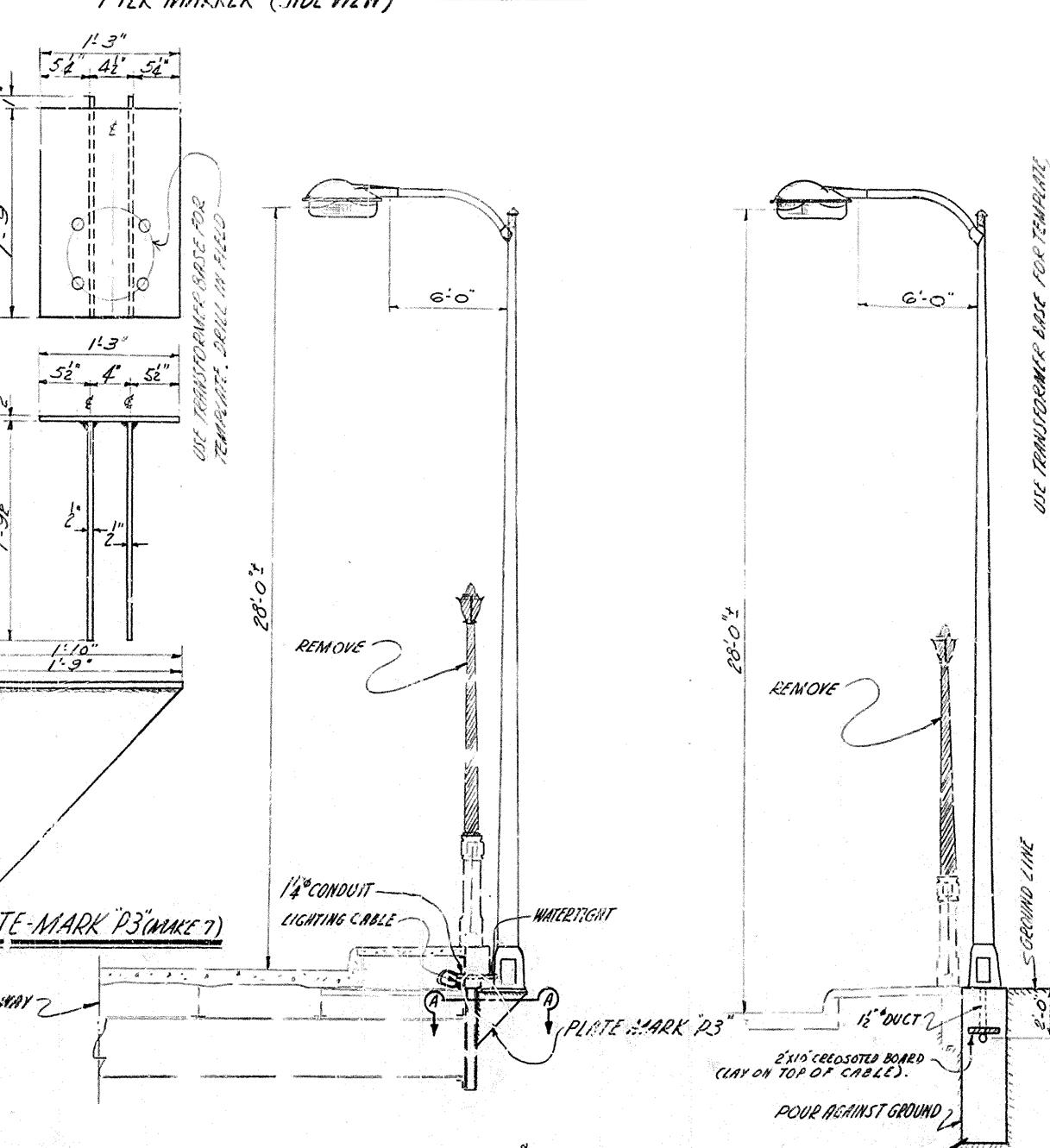
TYPE 1

TYPICAL INSTALLATION AT LIGHTS 6-13-14-15 & 22



TYPE 2

TYPICAL INSTALLATION AT LIGHTS 7 THRU 12 & 16 THRU 21

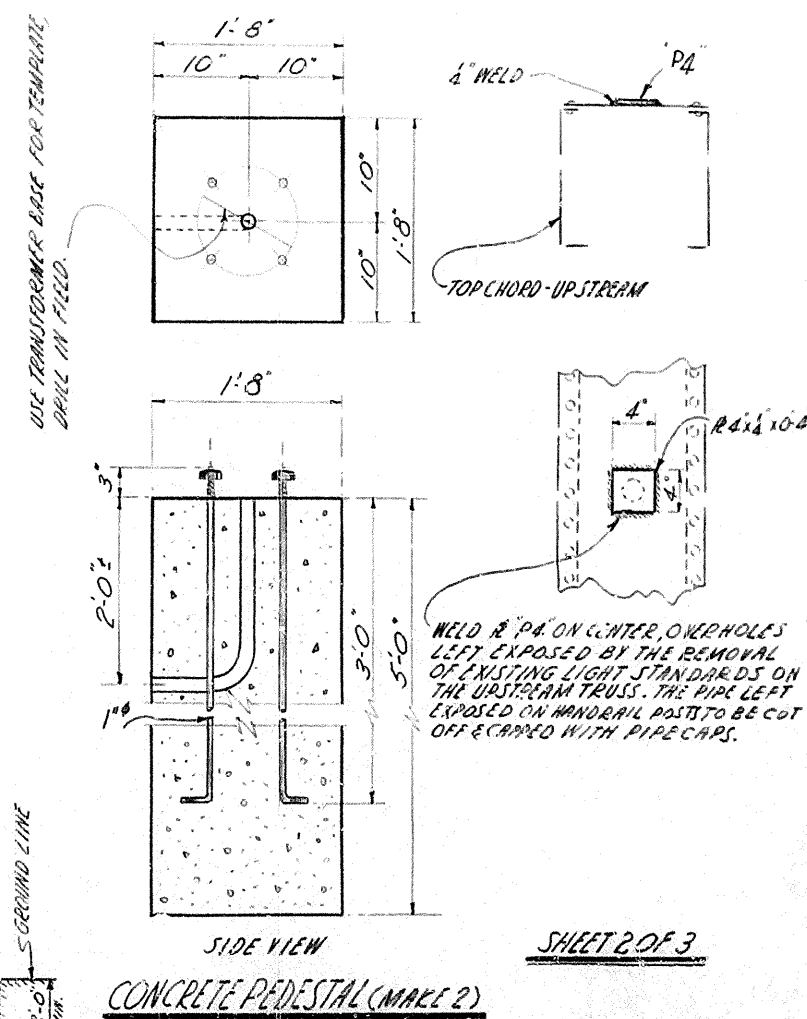


TYPE 3

TYPICAL INSTALLATION AT LIGHTS 3-4-5 & 23 THRU 26

TYPE 4

TYPICAL INSTALLATION AT LIGHTS 1 AND 2



SIDE VIEW

CONCRETE PEDESTAL (MAKE 2)

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT
COUNTY OF
MASON
MAYSVILLE, KY.-ABERDEEN OHIO

STATION
BRIDGE NUMBER M.P. 81-4015-1

ROAD
PROJECT NO.
DRAWING NO. 13788

INDEX

GENERAL NOTE

SPECIFICATIONS: KENTUCKY DEPARTMENT OF HIGHWAYS, 1956 EDITION WITH AMENDMENTS.

SCOPE OF WORK: REVISE PRESENT ROADWAY AND NAVIGATION LIGHTING SYSTEMS OF THE SUSPENSION BRIDGE. THE PRESENT ROADWAY LIGHTING SYSTEM CONSIST OF TWO SERIES CIRCUITS WITH EACH CIRCUIT CONNECTED TO A 10 KW TRANSFORMER. ALTERNATE LIGHTS ON EACH SIDE ON ALTERNATE SERIES SYSTEMS. PLANS ARE PREPARED TO ELIMINATE ONE SERIES SYSTEM AND PUT 26 400 W. MERCURY VAPOR LAMPS ON DOWN STREAM SIDE (SIDEWALK SIDE). ALL OLD LIGHT STANDARDS ON BOTH SIDES TO BE REMOVED AND ALL HOLES IN TOP CHORD UPSTREAM SIDE TO BE COVERED WITH A METAL COVER TO PREVENT WATER ENTERING TOP CHORD. (SEE PLANS FOR DETAIL). USE 20 KW TRANSFORMER FROM C. & O. BRIDGE CINCINNATI. CIL SHOULD BE TESTED BEFORE NEW INSTALLATION.

WIRE: ALL WIRE IS ARMORED CABLE, ASSUMED TO BE GOOD. SOME TWO YEARS AGO THE CABLE WAS CHECKED WITH A MEGGER AND FOUND TO BE SATISFACTORY. THIS CABLE TO BE CHECKED AGAIN BY A MEGGER AND IF FOUND TO BE SATISFACTORY TO BE USED. DEFECTIVE WIRE ON SERIES CIRCUIT TO BE REPLACED WITH 5000 VOLT SUPER CORINOL GEOPRENE. PARALLEL CIRCUIT TO BE 600 V FLAMENOL WIRE. WIRE FROM BALLAST TO LIGHTS TO BE #12 FLAMENOL.

SUB-STATION: THIS STATION TO BE REARRANGED ACCORDING TO SKETCH TO MAKE IT MORE ACCESSIBLE. FLOOR TO BE THOROUGHLY CLEANED.

MATERIAL SPECIFICATIONS: REFERENCE TO MANUFACTURER'S BRAND NAME AND TYPE OF MATERIAL SPECIFIED HEREIN IS MADE FOR THE PURPOSE OF OBTAINING GOOD STANDARD MATERIAL. ANY OTHER MAKE OR BRAND OF SIMILAR DESIGN AND EQUAL QUALITY MAY BE USED PROVIDED THAT, IF SUBSTITUTIONS ARE MADE, WRITTEN CONSENT MUST BE HAD FROM THE DEPARTMENT OF HIGHWAYS BEFORE WORK BEGINS. THE CONTRACTOR SHALL FURNISH IN TRIPPLICATE, FOR APPROVAL BY THE DEPARTMENT OF HIGHWAYS, DRAWINGS, CUTS, OR CATALOG SHOWING ALL MATERIALS TO BE USED.

CROSSOVERS: EXISTING CROSSOVER CIRCUITS AT NAVIGATION LIGHTS TO BE REMOVED. OLD SERIES SYSTEM BEYOND NAVIGATION LIGHTS TO BE REMOVED.

STRUCTURAL STEEL: ALL STRUCTURAL STEEL TO MEET A.S.T.M. A7-56T SPECIFICATIONS. THE CONTRACTOR TO FURNISH IN TRIPPLICATE NOTARIZED STATEMENTS THAT ALL STEEL MEETS THESE SPECIFICATIONS.

NAVIGATIONS LAMPS: TO BE ADELAKE NO. 1331 AND TO HAVE ALUMINUM FRAMES. LENS TO BE 8" FRESNEL. EACH LAMP TO BE EQUIPPED WITH A RELAY TO SWITCH CURRENT FROM MAIN LIGHT TO AUXILIARY LIGHT WHEN MAIN LIGHT FAILS. RELAY TO BE OF SUCH A CAPACITY THAT IT WILL CARRY 100 W 120 V LAMP INDEFINITELY WITHOUT BURNING, STICKING OR OVERHEATING THE COIL. GLOBES TO BE A 21 100 WATT WITH A LAMP CENTER OF 3'-7/8".

POLE HEIGHT: ALL 400 W MERCURY VAPOR LUMINAIRES TO BE MOUNTED OF 28'-0" ± OVER ROADWAY.

OLD MATERIALS TO BE REUSED: WIRE, IF IN GOOD CONDITION AFTER MEGGER TESTED, 5 KVA TRANSFORMER, OIL SWITCH, METER TRANSFORMERS, FUSED CUTOUTS, AND SUN SWITCH.

PAINT: ALL NEW STEEL, BURNT OR ABRASZED PLACES TO BE CLEANED AND GIVEN ONE COAT OF #1 RED LAD PAINT AND ONE OF ALUMINUM PAINT.

TEST: AFTER NEW INSTALLATION THERE SHALL BE A MEGGER TEST FOR SHORTS AND GROUNDS.

OLD MATERIAL: ALL OLD MATERIAL NOT REUSED, SUCH AS WIRE, OIL SWITCHES, TRANSFORMERS, CUTOUTS, LAMP POSTS, ETC. TO BE REMOVED AND TURNED OVER TO THE DEPARTMENT OF HIGHWAYS.

WELDING: HOLES IN TOP CORD UPSTREAM SIDE TO HAVE 1/4" PLATES WELDED OVER ALL HOLES AT OLD STANDARD LOCATIONS. ALL WELDING TO BE DONE IN ACCORDANCE WITH THE CURRENT SPECIFICATIONS FOR WELDING HIGHWAY AND RAILWAY BRIDGES OF THE AMERICAN WELDING SOCIETY.

DAMAGE TO BRIDGE: CONTRACTOR SHALL NO IMPAIR STRENGTH OF BRIDGE BY DRILLING OR CUTTING WITHOUT WRITTEN CONSENT OF THE ENGINEER EXCEPT AS SHOWN ON PLANS.

NAVIGATION LIGHTS: THE CONTRACTOR SHALL KEEP THE PARALLEL LIGHTING SYSTEM IN WORKING CONDITION EVERY NIGHT FROM TIME HE COMMENCES WORK UNTIL ACCEPTED BY THE DEPARTMENT.

LIGHT STANDARD: A NEW LIGHT STANDARD TO BE ERECTED AT LIGHT #1 APPROXIMATELY 120 FEET FROM LIGHT #2. A CONCRETE BASE 1'-8" x 1'-8" x 3'-0" TO BE POURED FOR THIS BASE, WITH BOLTS PLACED IN CONCRETE TO ANCHOR POLE AND A 2" DUCT FOR WIRE TO ENTER POLE BASE. WIRE FOR #2 TO #1 TO BE #6 SUPER CORINOL GEOPRENE 5000 V. WIRE TO BE BURIED DIRECTLY IN GROUND. NO. CONDUIT. EXCESS MATERIAL AND EQUIPMENT IN SUB-STATION TO BE REMOVED AND TURNED OVER TO THE DEPARTMENT OF HIGHWAYS.

LUMP SUM BID: THE LUMP SUM BID FOR THIS ITEM OF WORK SHALL BE FULL COMPENSATION FOR ALL MATERIAL, FABRICATION, ERECTION, WELDING, FITTING, EQUIPMENT, TOOLS AND ALL LABOR AND INCIDENTALS NOT CALLED FOR, FOR A COMPLETE REVISING ROADWAY AND NAVIGATION LIGHTS ACCORDING TO PLANS AND SPECIFICATIONS.

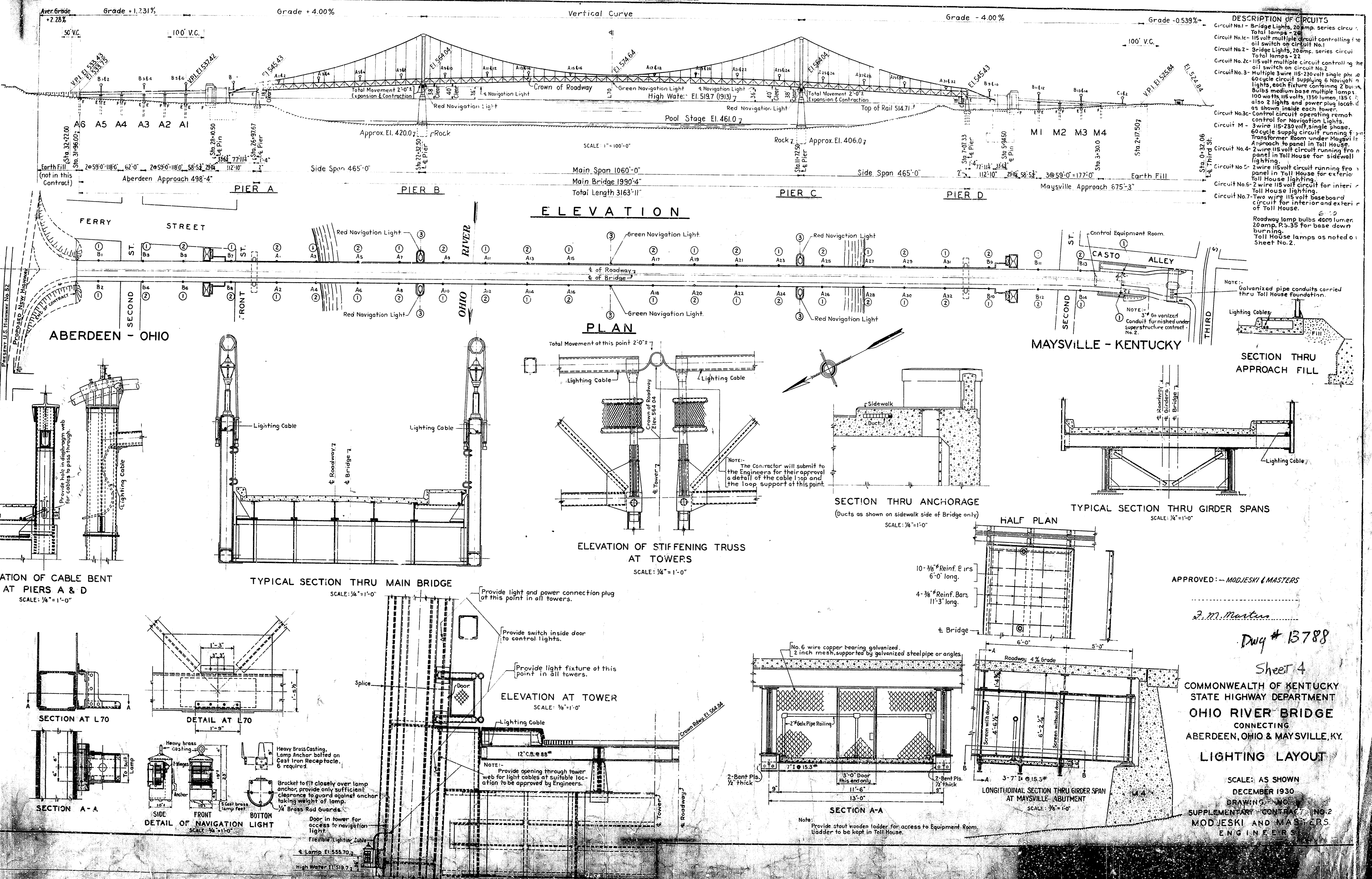
WORKMANSHIP: ALL WORK TO BE DONE IN A WORKMANSHIP LIKE MANNER.

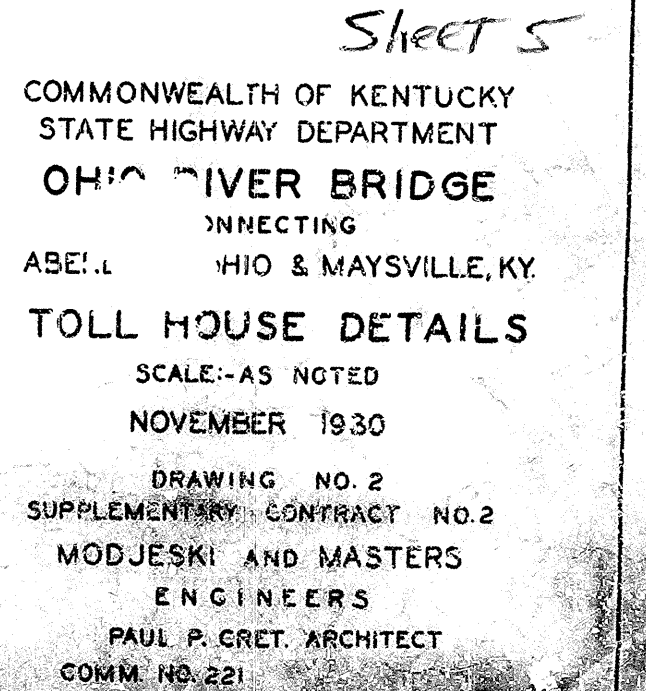
APPROXIMATE BILL OF MATERIAL

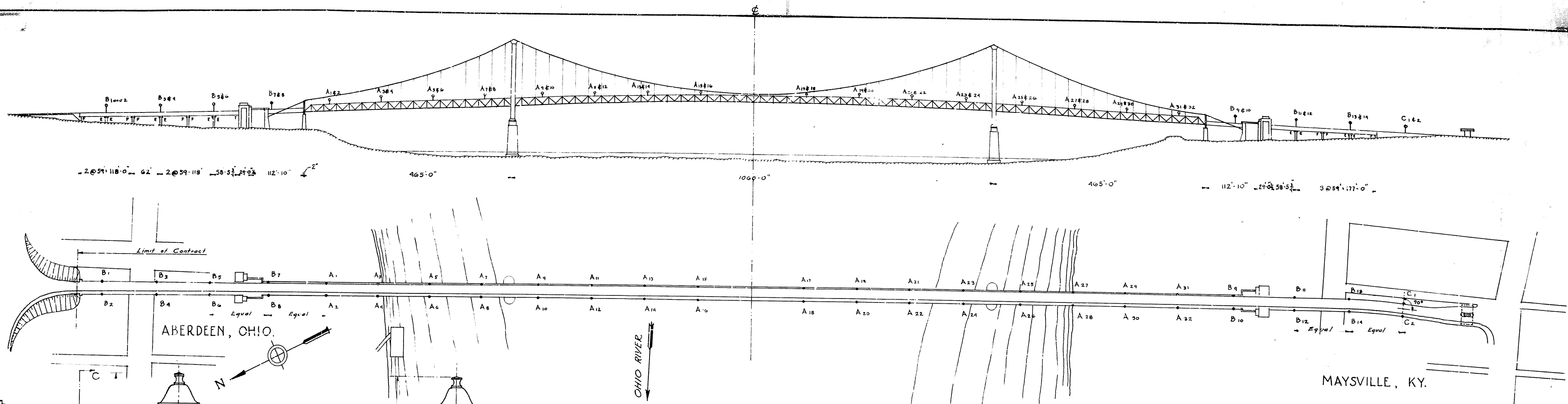
No.	Description
26	Mercury Vapor Luminaires IES Type II
26	400 Watt E1 Globes
26	Ballast, GE, ILH, No. 95A20J1
1	Open Circuit Protective Device G.E. Cat. No. 3PR12B1
1	Magnetic Relay Square D Class 8502, AG-11, NEMA Type 1
1	Overload Relay Square D Class 9065 Type 30-1
300'	No. 6, 5000V Super Corinol Geoprene Wire
6	Aluminum Navigation Lamps, Adams & Westlake Co's Adelake
	Electric Bridge Lamps No. 1331 With 8" Fresnel Lenses.
12	A-21, 10 W - 115/135 V Filament Globes With 3/4" Light Centers Char
2000'	No. 12, 600V Flamenol Wire (Ballast to Lights)
1	20 KW. Series Transformer from C. & O. Bridge at Cincinnati.
5	Type 1 Light Standards
12	" 2 " "
7	" 3 " "
2	" 4 " "
2	Con. Pole Base 1'8" x 1'5" x 3'-0" With Anchor Bolts
5	Plates P1 (See detail)
12	" P2 " "
7	" P3 " "
16	" P4 " "
16	Pipe caps for 2 1/2" pipe

SHEET 3 OF 3

COMMONWEALTH OF KENTUCKY	
DEPARTMENT OF HIGHWAYS	
FRANKFORT	
COUNTY OF	
MASON	
MAYSVILLE KY - ABERDEEN OHIO	
ROAD	
STATION	PROJECT NO.
BRIDGE NUMBER M.P. 81-4015-1	DRAWING NO. 13788

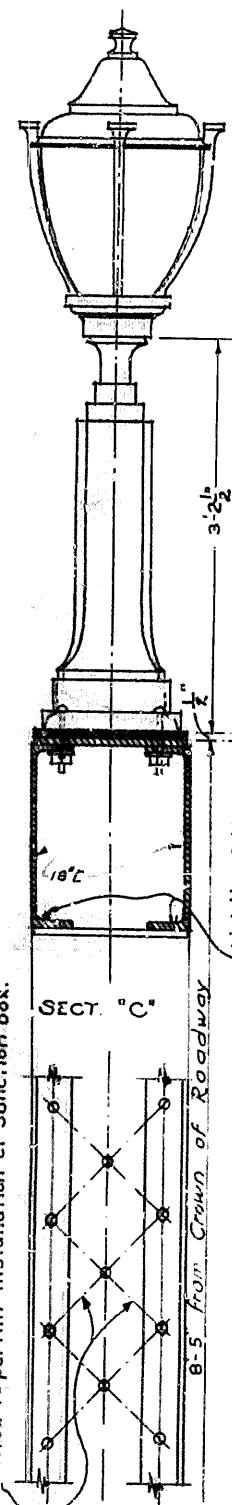




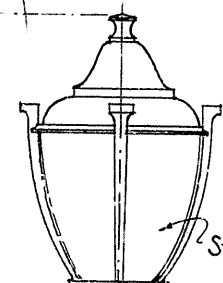
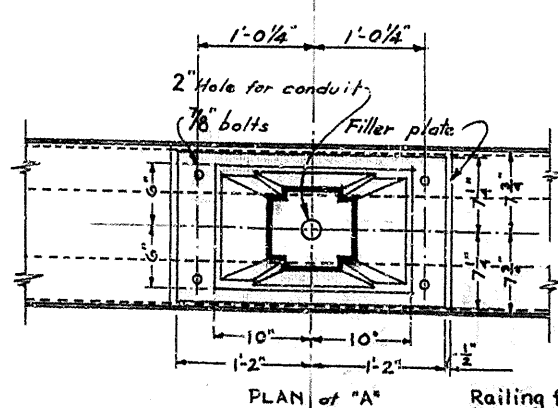


GENERAL LAYOUT OF LIGHTING FIXTURES.

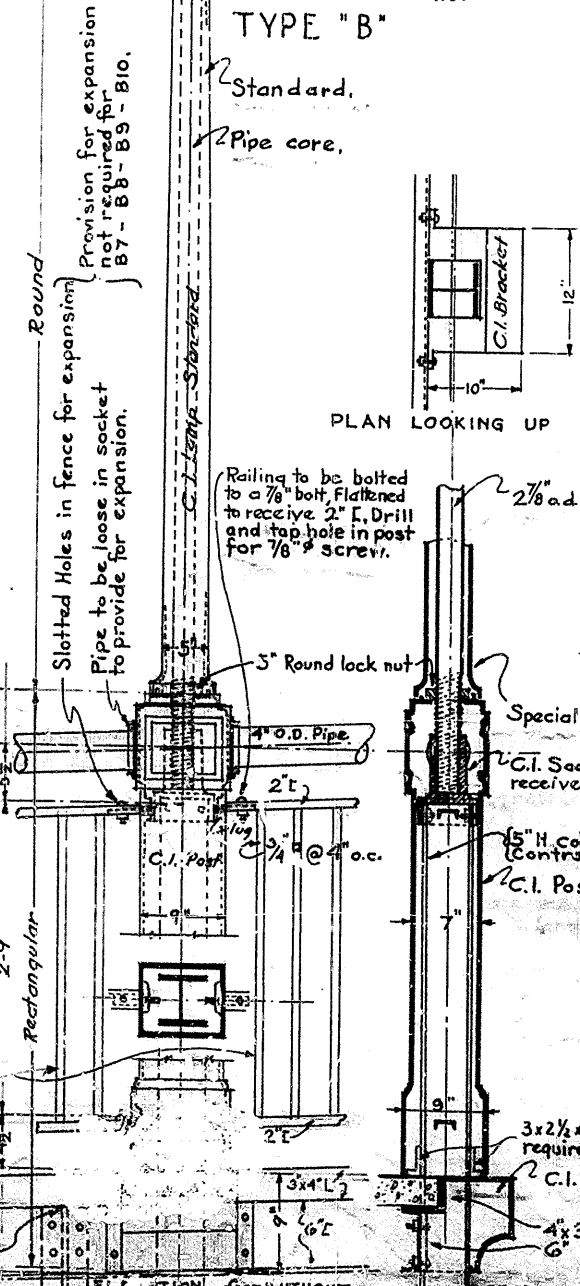
Scale 1" = 100'-0"



DETAILS of LAMP STANDARD TYPE "A"

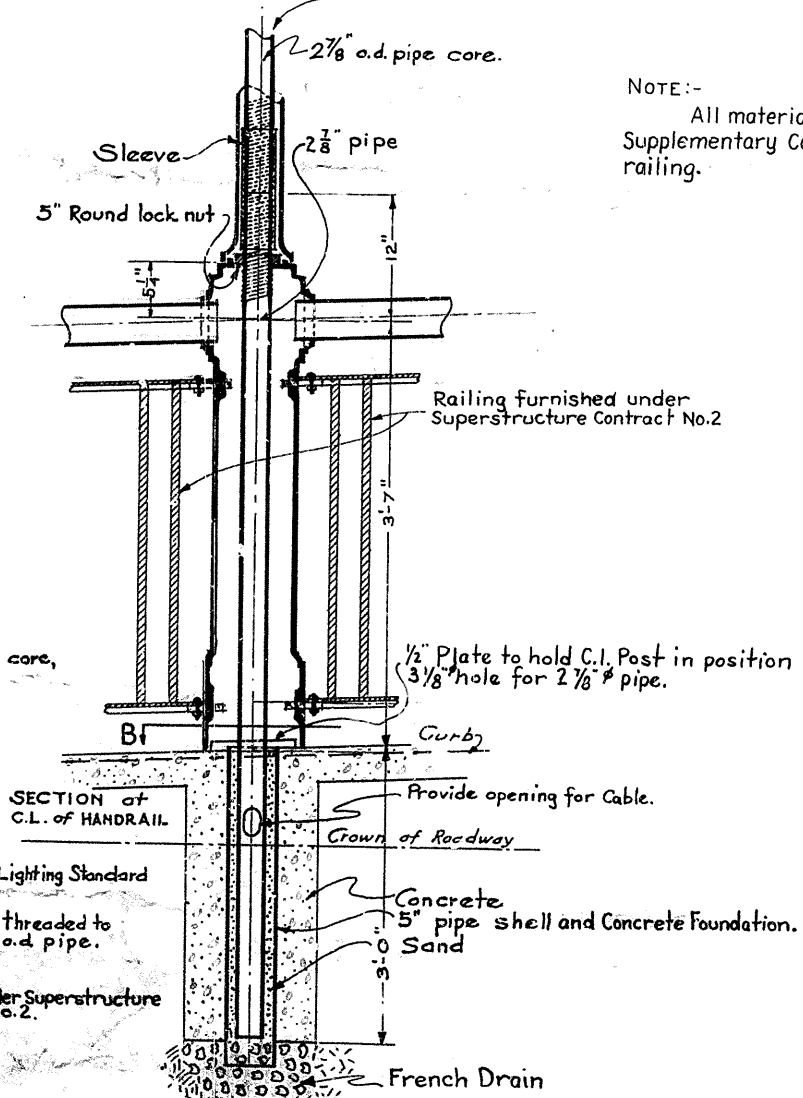


DETAILS of LAMP STANDARD TYPE "B"

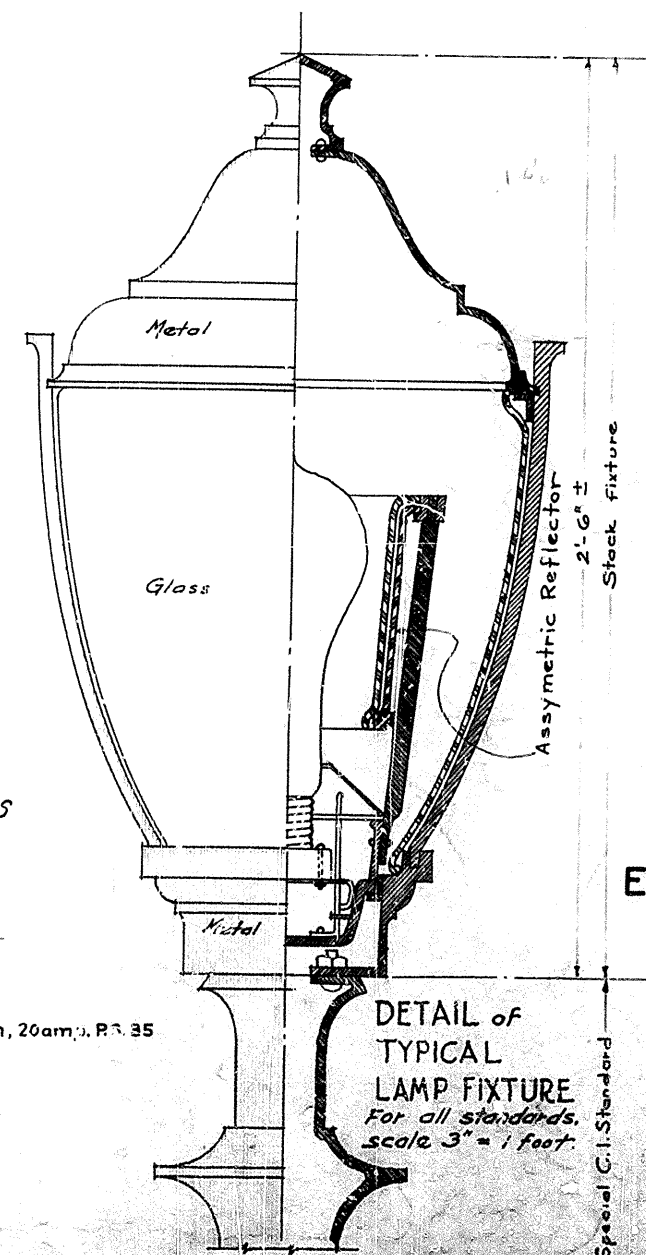
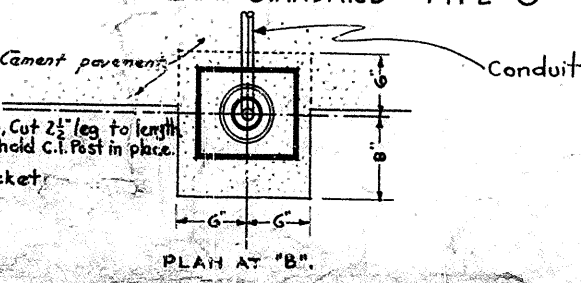


Standard and Lamp fixture are similar to standard type "B"

NOTE:- All material shown on this drawing furnished under Supplementary Contract No. 2 except as noted for hand railing.



DETAILS of LAMP STANDARD TYPE "C"



DETAIL of TYPICAL LAMP FIXTURE

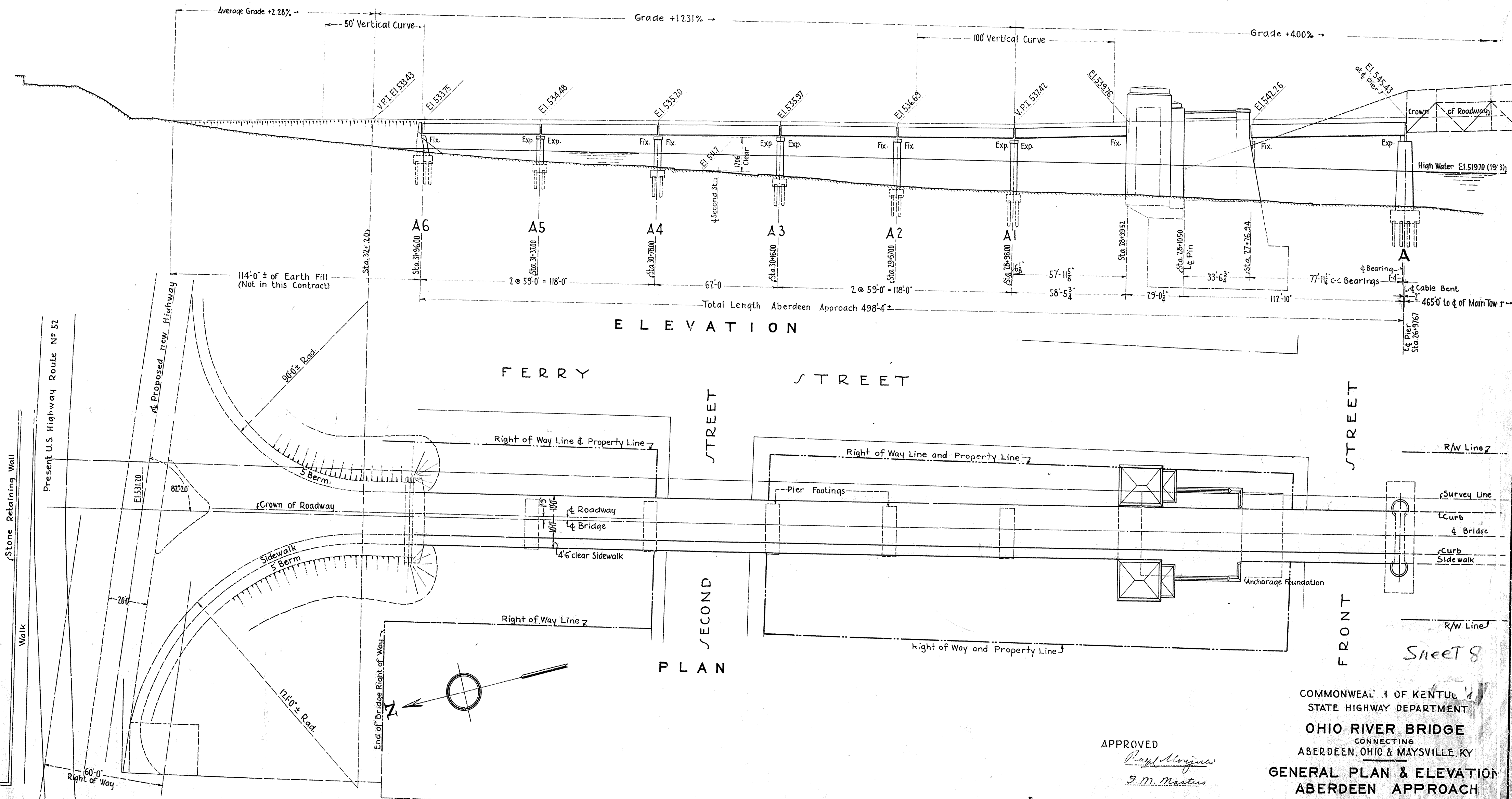
For all standards, scale 3" = 1 foot.

APPROVED:-MODJESKI & MASTERS

F. M. Masters

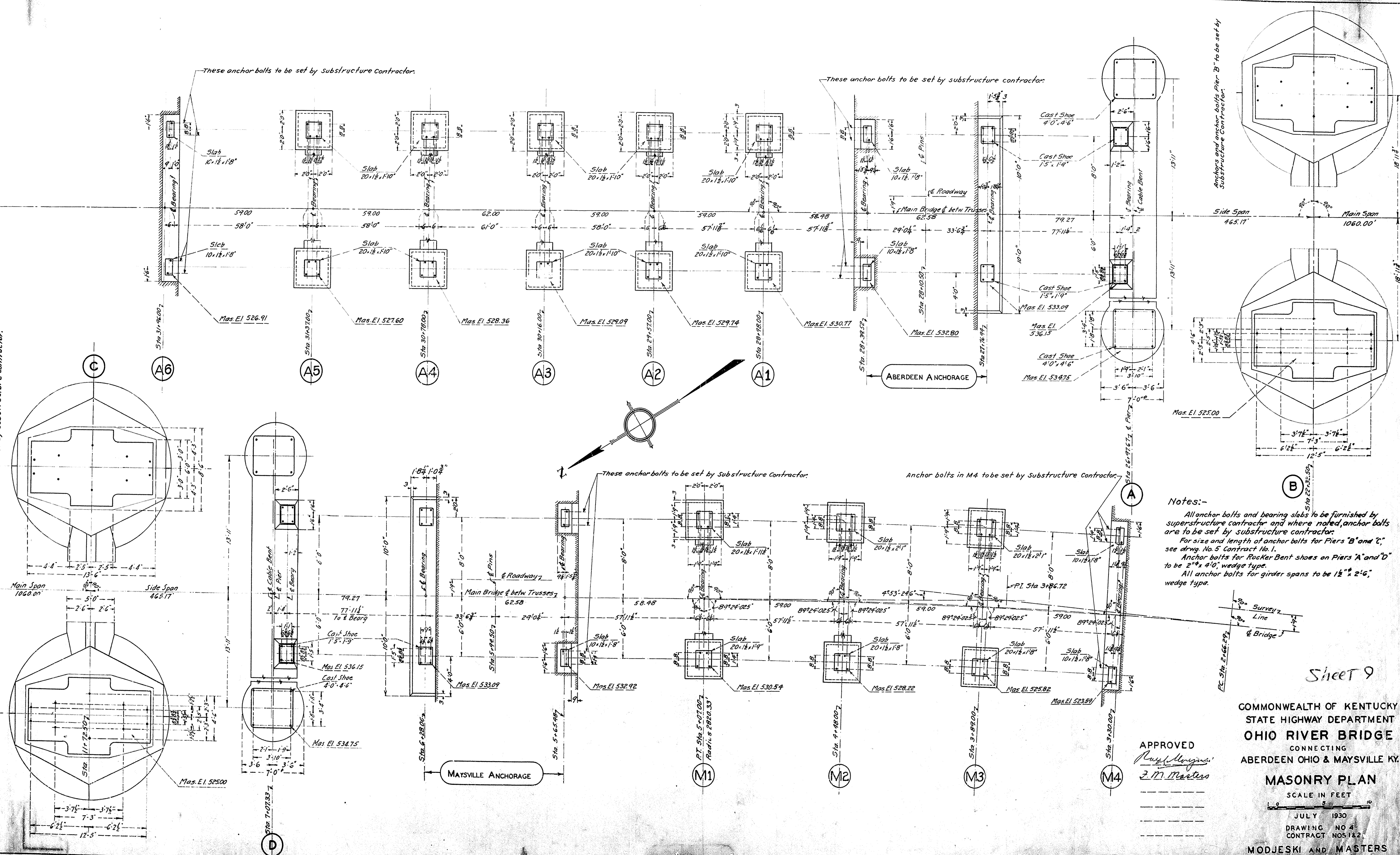
NOTE:- Roadway lamp bulbs, 4000 lumen, 20amp., R.T. 35 for base down burning.

Sheet 7
COMMONWEALTH OF KENTUCKY
STATE HIGHWAY DEPARTMENT
OHIO RIVER BRIDGE
CONNECTING
ABERDEEN, OHIO & MAYSVILLE, KY.
ELECTRIC LIGHTING FIXTURES
SCALE:- AS NOTED
NOVEMBER 1930
DRAWING NO. 3
SUPPLEMENTARY CONTRACT NO. 2
MODJESKI AND MASTERS
ENGINEERS
PAUL P. GRET, ARCHITECT
COMM. NO. 221



APPROVED
Ray Morgan
S. M. Martin

COMMONWEALTH OF KENTUCKY
 STATE HIGHWAY DEPARTMENT
OHIO RIVER BRIDGE
 CONNECTING
 ABERDEEN, OHIO & MAYSVILLE, KY
GENERAL PLAN & ELEVATION
ABERDEEN APPROACH
 SCALE IN FEET
 0 10 20 30 40
 JULY 1930
 DRAWING NO 3
 CONTRACT NO 122
 MODJESKI AND MASTERS
 ENGINEERS



Notes:-
 All anchor bolts and bearing slabs to be furnished by superstructure contractor and where noted, anchor bolts are to be set by substructure contractor.
 For size and length of anchor bolts for Piers "B" and "C," see drawing No. 5 Contract No. 1.
 Anchor bolts for Rocker Bent shoes on Piers "A" and "D" to be 2" x 4'-0", wedge type.
 All anchor bolts for girder spans to be 1 1/2" x 2'-6", wedge type.

Sheet 9

APPROVED
Russell Morgan
 J. M. Masters

COMMONWEALTH OF KENTUCKY
 STATE HIGHWAY DEPARTMENT
 OHIO RIVER BRIDGE
 CONNECTING
 ABERDEEN OHIO & MAYSVILLE KY.

MASONRY PLAN

SCALE IN FEET

JULY 1930
 DRAWING NO. 4
 CONTRACT NOS. 1 & 2

MODJESKI AND MASTERS
 ENGINEERS

BACK STAY

Max Stress - Case A = +5200 K
65-5 Wire Galvanized Strands
ANCHORAGE
Per Cable
Grillage - 4-30" x 15" x 40" Carbon L
18-Bars 12" x 18" Carbon D
65-Strand Anchorage
Stress 2 Cov 40%
L - 348 24" CB 94#
D - 838 41" x 4 1/2"
Total - 1186 Carbon

CABLE ROCKER AT L0

TRUSS ROCKERS AT L32 & L34

16" CB 58# Carbon
HAND ROPE (2-Ropes per Cable)
3/8" Galv Strand
Min Ult Strength = 39 K

SUSPENSERS

2-1 1/2" Galv Wire Ropes (Wire Center)
Min Ult Strength = 2@240 = 480 K
Stress
L 194
D - 68
+162

MAIN CABLE

Max Stress - Case A = +5380 K
61-1 1/2" x 51 Wire Galvanized Strands
Net Area = 61@1.337 = 81.557 sq
Min Ult Strength = 61@270 = 16,470 K
Min E = 24,000,000 up to 50% Ultimate Strength

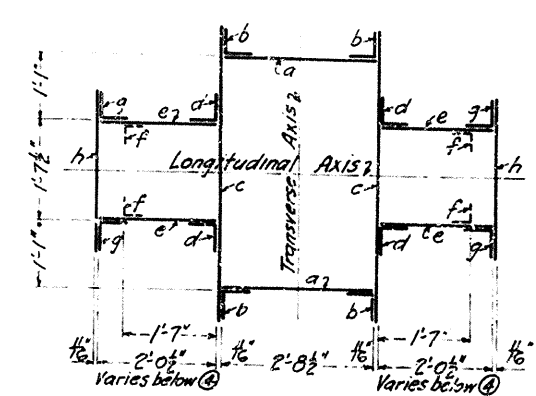
MAXIMUM CONDITIONS OF TOWER DEFLECTION

Case A - Maximum Vertical Reaction - All Spans Loaded - Minimum Temperature
B - Maximum Riverward Deflection - Center and Far Spans Loaded - Maximum Temperature
C - Maximum Shoreward Deflection - Near Side Span Loaded - Minimum Temperature
D - Maximum Wind Stresses - No Spans Loaded - Minimum Temperature

NOTE - Tower in Normal Position is Deflected 3" Shoreward (+ Denotes Riverward) (- Denotes Downward)

Case	Horizontal Deflections				Vertical Forces at Top of Tower				Vertical Forces			
	Max Defl. From Vert. Normal	Max Defl. From Vert. Theor. Assum.	Max Defl. From Vert. Theor. Assum.	Max Defl. From Vert. Theor. Assum.	Unbal. H	Unbal. V	At Top of Tower	At Top of Tower	Shift Tr. to Practice	Shift Tr. to Practice	Shift Tr. to Practice	Shift Tr. to Practice
A	10.220	-0.280	-0.030	-1"	4877	+1.04	2061	1946	4007	+130	+0	+0
B	11.199	-0.280	-0.030	+12"	4677	+1.04	2061	1946	4007	+130	+13	+13
C	-0.700	-0.280	-1.158	-14"	3538	-0.45	1720	1385	3105	+163	-4	-4
D					3503							

NOTE - Elevations and dimensions given on all plans are for dead load conditions with bridge in normal position. To determine the lengths of columns to each tower, indicate the slope of each column.



COLUMN PROPERTIES

Section	Area	About Transverse Axis	About Longitudinal Axis	Section Modulus	Section Modulus	Section Modulus
	sq in	I in ⁴	I in ⁴	S in ³	S in ³	S in ³
6	280.76	194700	42125	1625		
5	284.76	195000	42300	1630	72500	29.00
Splice	284.76	205800	42300	1630		2500
4	300.68	221500	4369	5065		
3	328.80	278300	48.31	6100		
2	346.78	376500	56.19	7055		
1	364.28	511600	63.125	8100		
0	384.66	760000	71.25	10560		

MOMENTS AND STRESSES IN TOWER

Section	Due to Dead Load of Tower				Due to Dead Load of Tower				Due to Dead Load of Tower			
	Moment	Stress	Stress	Stress	Moment	Stress	Stress	Stress	Moment	Stress	Stress	Stress
Case B - 12" Deflection	0.56	0	0	2570	0.56	4007	14.27	0	0	4007	14.27	0
5	37749	8.16	462	0.10	38211	0.26	4007	14.27	132	0.47	4139	14.74
4	48273	9.90	871	0.18	47144	0.26	4007	14.27	218	0.74	4225	15.24
3	54677	10.78	920	0.18	55587	0.26	4007	14.27	236	0.79	4343	15.79
2	53223	7.05	740	0.10	56171	9.21	3910	11.88	252	0.77	4162	15.63
1	53395	7.85	757	0.14	56382	7.79	3910	11.26	264	0.76	4174	15.62
0	53490	6.85	760	0.12	56452	6.97	3910	10.71	273	0.75	4163	15.46
C - 14" Deflection	5.26	760	0.07	56502	5.35	3910	10.15	281	0.73	4191	15.88	15.88
Case C - 14" Deflection	0.87	0	0	4041	0.87	3105	11.05	0	0	3105	11.05	0
5	42820	9.26	539	0.12	43359	9.30	3105	11.05	132	0.47	4237	15.24
4	56820	11.62	1013	0.21	57833	11.83	3105	10.46	218	0.74	4323	15.79
3	64472	12.71	1070	0.22	65340	12.73	3254	10.80	236	0.77	4390	16.25
2	65732	10.78	1104	0.18	66856	10.76	3254	9.80	252	0.77	4366	16.05
1	66468	9.42	1112	0.16	67580	9.58	3254	9.38	264	0.76	4358	16.14
0	66730	8.26	1118	0.14	68048	8.40	3254	8.73	273	0.75	4357	16.16
D - 17" Deflection	6.37	1118	0.11	68418	6.48	3254	8.46	281	0.73	4353	16.16	16.16

NOTES - In all cases where CB or other special section is shown the contractor may substitute, subject to the Engineers approval, sections of equal weight and strength.
S - indicates Stringer Splice
J - Exp. Joint

COMMONWEALTH OF KENTUCKY
STATE HIGHWAY DEPARTMENT
OHIO RIVER BRIDGE
CONNECTING
ABERDEEN, OHIO & MAYSVILLE, KY.

APPROVED
Raymond M. Masters
J. M. Masters
JULY 1930
DRAWING NO. 5
CONTRACT NO. 2
MODJESKI AND MASTERS
ENGINEERS

ASSUMED LOADINGS

D - Dead Load	Heavy Light		Live Load	
	Truss	Truss	Truss	Truss
Conc. Paving, Curb & S.W.	1250	1070	2320	17000 # 67000 #
Reinforcing Steel	90	80	170	
Railings	30	30	60	
Stringers	180	160	340	
Floor beams	100	100	200	
Bracing	50	50	100	
Inspection Walk	10	10	20	
Trusses	390	390	780	
Suspensers & Sockets	30	30	60	
Cable Bands	20	20	40	
Cables	300	300	600	
Excess	2450	2240	4690	
	150			
	2600 # p.f.f.			
W - Wind				
40 #/sq on 1/2 x vertical projection				
= 500 # p.f.f. of bridge.				
W - Normal Wind				
20 #/sq on 1/2 x vertical projection and 100 # p.f.f. on vehicles				
= 350 # p.f.f. of bridge.				
Load Combinations				
Case I - D + C + T -				
Case II - D + N + W + T -				
Case III - D + W + T -				

UNIT STRESSES

Axial Tension, Net Section	Me. Carbon Steel		Silicon Steel	
	24000	32000	24000	32000
Compression	22500 - 75 % (17000 Max.)	30000 - 100 %		
Shear - Girder Webs, Gross Section	15000			
Flange & Power Driven Rivets	15000			
Bearing - Steel Parts in Contact	30000			
Power Driven Rivets	30000			
Initial Tension - Cable Wire	80000			
- Strands	75000			

NOTE - For stresses in stiffening trusses, the above values may be increased 25%. To provide for unstiffened effect of top chords, the stresses (for silicon steel) shall be reduced to a tension of 36000 #/sq and a compression of 33000 - 110 %.

STRINGERS

Shear Moment
L 38.0 251 2" CB 55#
D 73 54 2" CB 55#
Total 453 305 Carbon

TYPICAL FLOOR BEAMS

Shear Moment
L 94 780 Web 54.3%
D 48 320 41" x 4 1/2"
Total 142 1160 Carbon

FLOOR BEAM AT L0

Shear Stress Moment
L 88 730 Web 66.3%
D 18 120 41" x 4 1/2"
Total 106 853 Carbon

FLOOR BEAMS AT L1-L31 & L35

Shear Stress Moment
L 94 780 Web 54.3%
D 36 295 41" x 4 1/2"
Total 130 1075 Carbon

FLOOR BEAMS AT L32 & L34

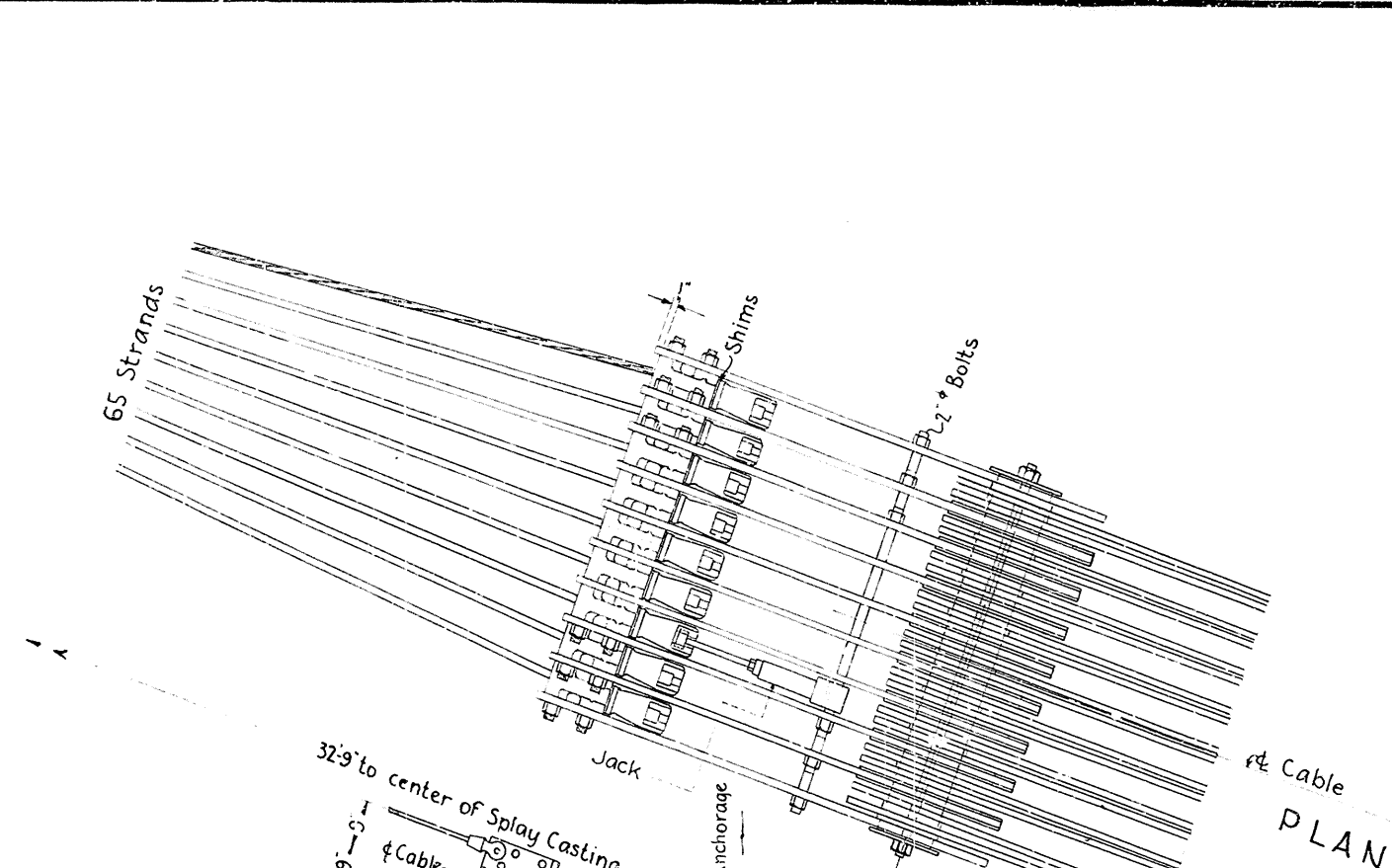
Shear Moment
L 90 752 Web 44.3%
D 16 120 41" x 4 1/2"
Total 106 872 Carbon

TRUSS VERTICALS

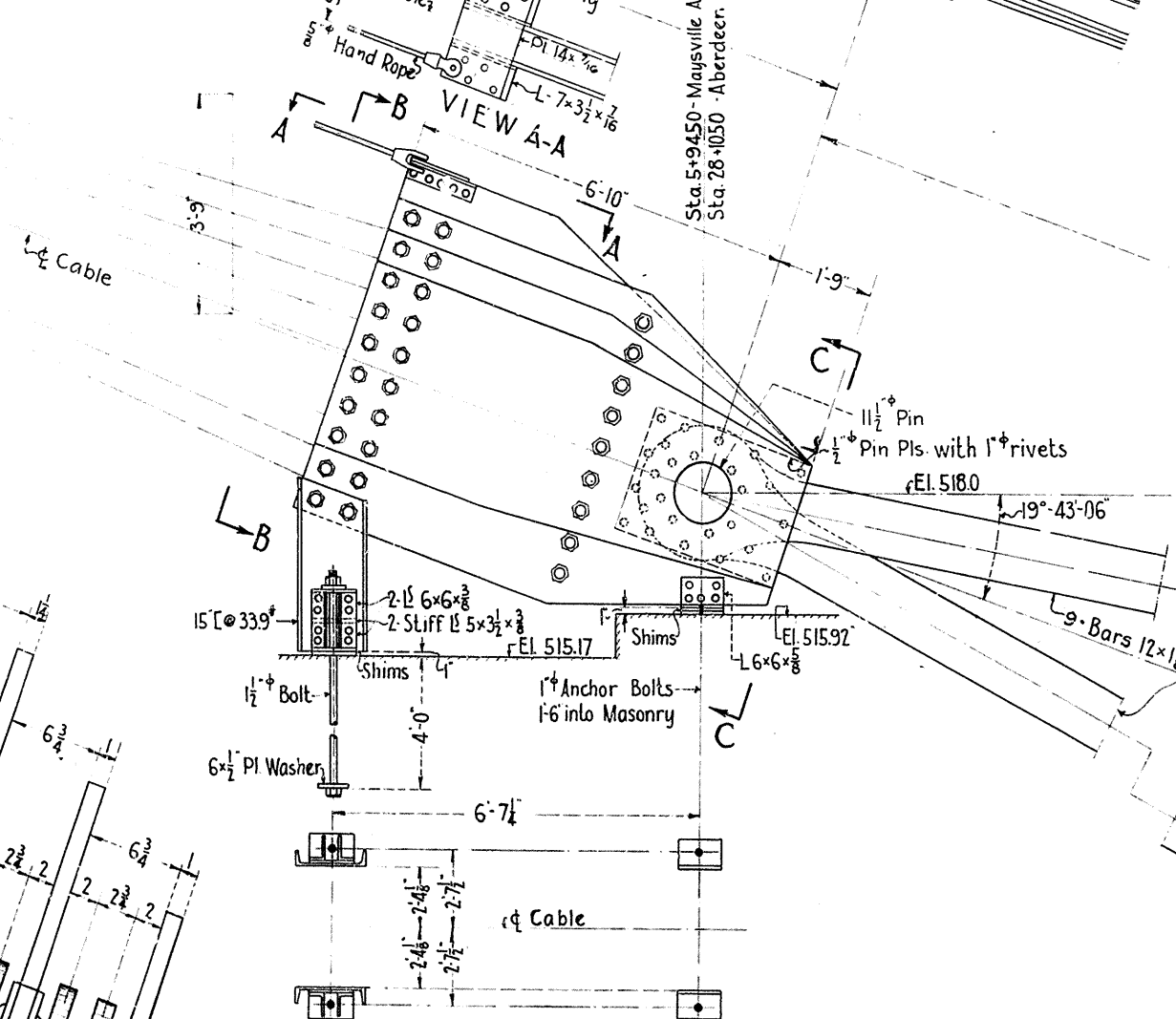
Stress
L 194
D +60
Total +154 16" CB 58# Carbon

TOP CHORDS

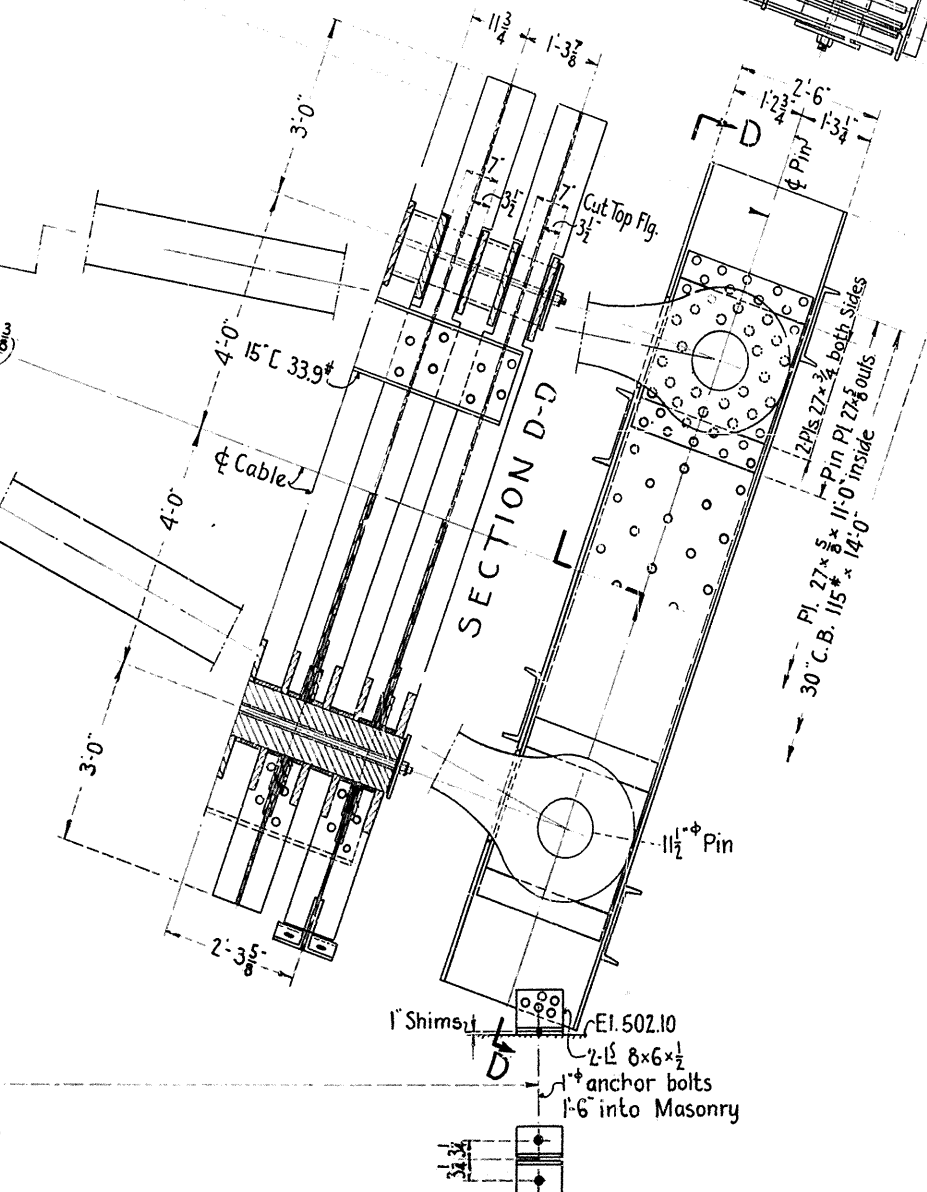
Case No.	Material	
0	1-Cov 152.5%	do
1	122	do
2	160	do
3	14	do
4	172	do
5	215	1-Cov 152.5%
6	240	do
7	264	1-Cov 152.5%
8	280	2.85% 152.5%
9	298	do
10	316	do
11	334	do
12	352	do
13	370	do
14	388	do
15	406	do
16	424	do
17	442	do
18	460	do
19	478	do
20	496	do
21	514	do
22	532	do
23	550	do
24	568	do
25	586	do
26	604	do
27	622	do
28	640	do
29	658	do
30	676	do
31	694	do
32	712	do
33	730	do
34	748	do
35	766	do
36	784	do
37	802	do
38	820	do
39	838	do
40	856	do
41	874	do
42	892	do
43	910	do
44	928	do
45	946	do
46	964	do
47	982	do
48	1000	do
49	1018	do
50	1036	do
51	1054	do
52	1072	do
53	1090	do
54	1108	do
55	1126	do
56	1144	do
57	1162	do
58	1180	do
59	1198	do
60	1216	do
61	1234	do
62	1252	do
63	1270	do
64	1288	do
65	1306	do
66	1324	do
67	1342	do
68	1360	do
69	1378	do
70	1396	do
71	1414	do
72	1432	do
73	1450	do
74	1468	do
75	1486	do
76	1504	do
77	1522	do
78	1540	do
79	1558	do
80	1576	do
81	1594	do
82	1612	do
83	1630	do
84	1648	do
85	1666	do
86	1684	do
87	1702	do
88	1720	do
89	1738	do
90	1756	do
91	1774	do
92	1792	do
93	1810	do
94	1828	do
95	1846	do
96	1864	do
97	1882	do
98	1900	do
99	1918	do
100	1936	do
101	1954	do
102	1972	do
103	1990	do
104	2008	do
105	2026	do
106	2044	do
107	2062	do
108	2080	do
109	2098	do
110	2116	do
111	2134	do
112	2152	do
113	2170	do
114	2188	do
115	2206	do
116	2224	do
117	2242	do
118	2260	do
119	2278	do
120	2296	do
121	2314	do
122	2332	do
123	2350	do
124	2368	do
125	2386	do
126	2404	do
127	2422	do
128	2440	do
129	2458	do
130	2476	do
131	2494	do
132	2512	do
133	2530	do
134	2548	do
135	2566	do
136	2584	do
137	2602	do
138	2620	do
139	2638	do
140	2656	do
141	2674	do
142	2692	do
143	2710	do
144	2728	do
145	2746	do
146	2764	do
147	2782	do
148	2800	do
149	2818	do
150	2836	do
151	2854	do
152	2872	do
153	2890	do
154	2908	do
155	2926	do
156	2944	do
157	2962	do
158	2980	do
159	2998	do
160	3016	do
161	3034	do
162	3052	do
163	3070	do
164	3088	do
165	3106	do
166	3124	do
167	3142	do
168	3160	do
169	3178	do
170	3196	do
171	3214	do
172	3232	do
173	3250	do
174	3268	do
175	3286	do
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177	3322	do
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183	3430	do
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185	3466	do
186	3484	do
187	3502	do
188	3520	do
189	3538	do
190	3556	do
191	3574	do
192	3592	do
193	3610	do
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209	3898	do
210	3916	do
211	3934	do
212	3952	do
213	3970	do
214	3988	do
215	4006	do
216	4024	do
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218	4060	do
219	4078	do
220	4096	do
221	4114	do
222	4132	do
223	4150	do
224	4168	do
225	4186	do
226	4204	do
227	4222	do
228	4240	do
229	4258	do
230	4276	do
231	4294	do
232	4312	do
233	4330	do
234	4348	do
235	4366	do
236	4384	do
237	4402	do
238	4420	do
239	4438	do
240	4456	do
241	4474	do
242	4492	do
243	4510	do
244	4528	do
245	4546	do
246	4564	do
247	4582	do
248	4600	do
249	4618	do
250	4636	do
251	4654	do
252	4672	do
253	4690	do
254	4708	do
255	4726	do
256	4744	do
257	4762	do
258	4780	do
259	4798	do
260	4816	do
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262	4852	do
263	4870	do
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265	4906	do
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267	4942	do
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271	5014	do
272	5032	do
273	5050	do
274	5068	do
275	5086	do
276	5104	do
277	5122	do
278	5140	do
279	5158	do
280	5176	do
281	5194	do
282	5212	do
283	5230	do
284	5248	do
285	5266	do
286	5284	do
287	5302	do
288	5320	do
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291	5374	do
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296	5464	do
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382	7012	do
383	7030	do
384	7048	do
385	7066	do
386	7084	do
387	7102	do
388	7120	do
389	7138	do
390	7156	do
391	7174	do
392	7192	do
393	7210	do
394	7228	do
395	7246	do
396	7264	do
397	7282	do
398	7300	do
399	7318	do
400	7336	do
401	7354	do
402	7372	do
403	7390	do
404	7408	do
405	7426	do
406	7444	do
407	7462	do
408	7480	do
409	7498	do
410	7516	do
411	7534	do
412	7552	do
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435	7966	do
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441	8074	do
442	8092	do
443	8110	do
444	8128	do
445	8146	do
446	8164	do
447	8182	do
448	8200	do
449	8218	do
450	8236	do
451	8254	do
452	8272	do
453	8290	do
454	8308	do
455	8326	do
456	8344	do
457	8362	do
458	8380	do
459	8398	do
460	8416	do
461	8434	do
462	84	



HALF SECT. A-A



Scale : $\frac{1}{2}'' = 1'-0''$



NOTES:-

- Material - Medium Carbon Steel except Castings which are Cast Steel
- Rivets:- $\frac{7}{8}$ " unless noted
- Holes:- $1\frac{1}{4}$ " unless noted
- Anchor Bolts furnished by Superstructure Contractor and set by Substructure Contractor.

This drawing shows an approved method of anchoring the Cable Strands. - The Contractor may submit an alternate design subject to the approval of the Engineers.

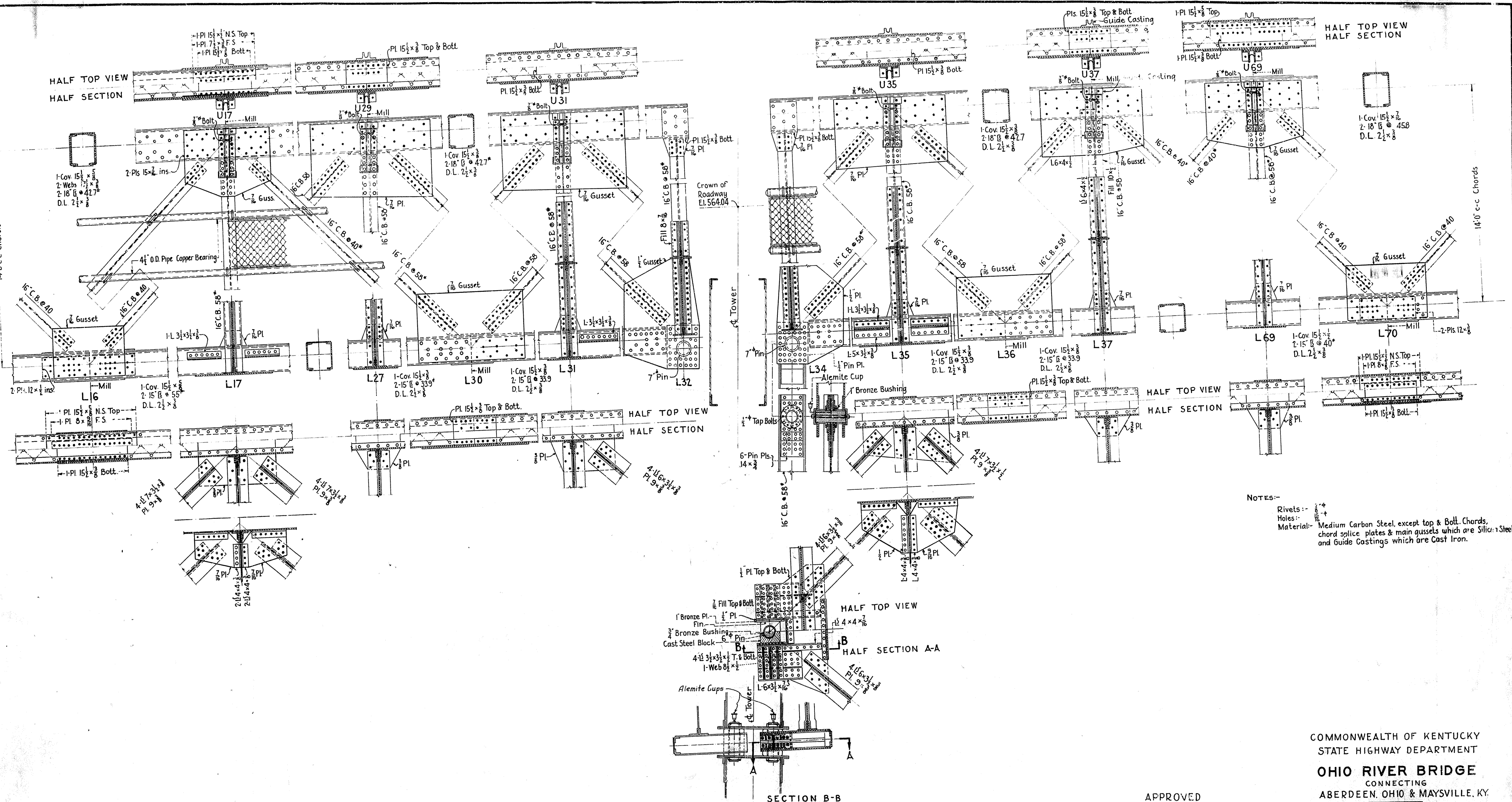
COMMONWEALTH OF KENTUCKY
STATE HIGHWAY DEPARTMENT
OHIO RIVER BRIDGE
CONNECTING
ABERDEEN, OHIO & MAYSVILLE, KY

DETAILS OF ANCHORAGE STEELWORK

SCALES AS NOTED

JULY 1930
DRAWING NO 9
CONTRACT NO 2

MODJESKI AND MASTERS
ENGINEERS



[illegible]

Diaph $\left\{ \begin{array}{l} 1 \cdot Pl. 19 \frac{1}{2} \times 5 \\ 4 \cdot L 4 \times 4 \times \frac{5}{8} \end{array} \right.$

→ Hand Rope Strand

EL 55850

of Cable

SECTION E-E

EL 545AA

El. 534.75

SECTION C-C

DETAILS AT PIER A & D

INTERMEDIATE SUPPORT
FOR CABLES 3 PER PANEL

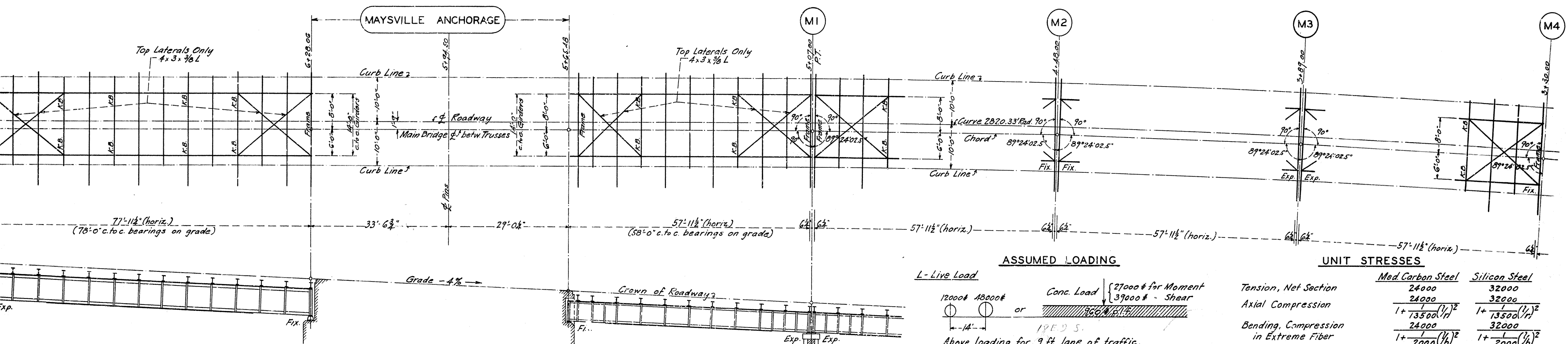
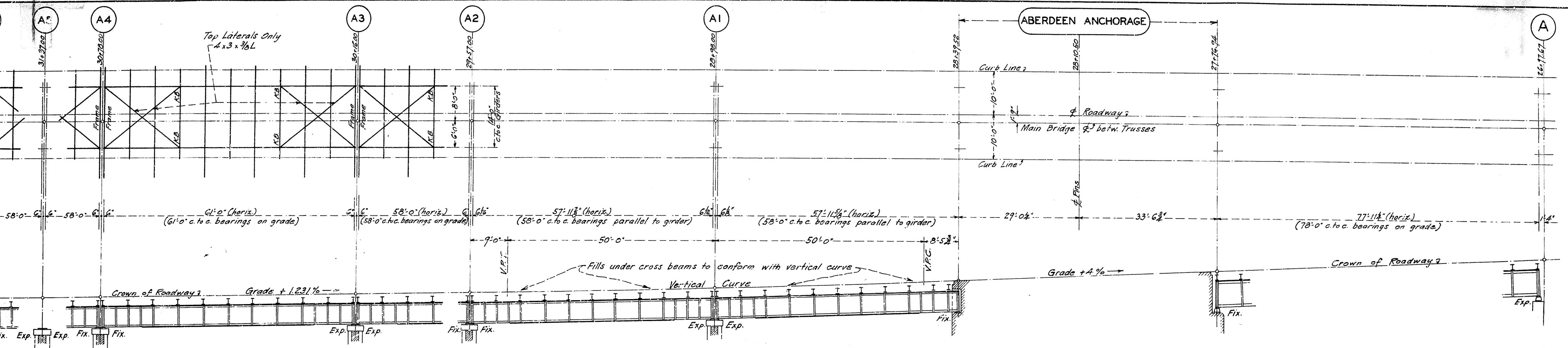
INTERMEDIATE SUPPORT
FOR INSPECTION WALK

TYPICAL SECTION THRU SUSPENDED SPANS

NOTES:-
Rivets:- $\frac{7}{8}$ " ϕ
Holes:- $\frac{15}{16}$ " ϕ less noted
Material:- Medium Carbon Steel, except
top & bott. chords, chord splice plates &
main gussets which are silicon
Castings:- Cast Steel annealed.

COMMONWEALTH OF KENTUCKY
STATE HIGHWAY DEPARTMENT
OHIO RIVER BRIDGE
CONNECTING
ABERDEEN, OHIO & MAYSVILLE, KY
TYPICAL DETAILS
STIFFENING TRUSSES
SCALE IN FEET
1 0 1 2 3 4
JULY 1930
DRAWING NO. 11
CONTRACT NO. 2
MOD. LECKIE AND MASTERS

APPROVED
Ralph Moniz
F. M. Masters



78' GIRDER SPAN

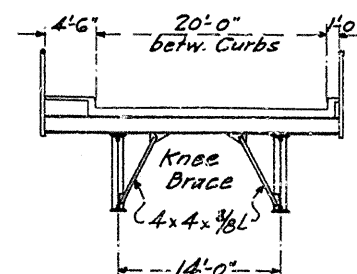
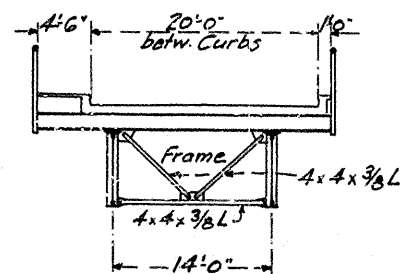
	Reaction	Shear	Moment
L	96	88	1570
I	24	22	388
D	74	68	1410
Total	194	178	3368

Web 72 x 7/16
4 x 6 x 3/8
2 Cows 16 x 3/8 x 50'-0" Bolt - F.L. Top Carbon

61' GIRDER SPAN

	Reaction	Shear	Moment
L	86	77	1073
I	23	21	289
D	55	50	831
Total	164	148	2193

Web 54 x 3/8
4 x 6 x 3/8
2 Cows 16 x 3/8 x 44'-0" Bolt - F.L. Top Carbon



CROSS BEAMS

	Reaction	Moments At Support	At Center
L	62	60	124
I	23	22	45
D	8	8	8
Total	93	90	177

16" CB 43# Silicon
S.M. = 65.7

58' GIRDER SPAN

	Reaction	Shear	Moment
L	83	71	985
I	23	20	267
D	53	48	750
Total	159	139	2004

54 x 3/8
4 x 6 x 3/8
2 Cows 16 x 3/8 x 40'-0" Bolt - F.L. Top Carbon

NOTE

Stresses in thousands of pounds.
Moments in thousands of foot pounds.

In all cases where CB or other special sections are shown, the contractor may substitute, subject to the Engineers approval, sections of equal weight and strength.

ASSUMED LOADING

L - Live Load

12000# AB000#
or
12000# for Moment
37000# for Shear
18' x 5' S.
Above loading for 9 ft. lane of traffic.

Sidewalk :- For Cross Beams 100 #/ft.
For Girders $P = (40 + \frac{3000}{L}) (\frac{55-W}{50})$
Where P = Load, #/ft.
L = Loaded length, ft.
W = Width of S.W., ft.

I - Impact

$I = \frac{50}{L+125}$ Where I = Impact fraction of Live Load stress
L = Loaded length, ft.

D - Dead Load

	78' Spans	61' & 58' Spans
Future Paving	300	300
Concrete Paving & Curbs	2150	2150
Sidewalk	170	170
Reinforcing Steel	170	170
Railings	100	100
Cross Beams	180	180
Cross Frames	40	40
Girders	590	450
	3700 #/ft.	3560 #/ft.

UNIT STRESSES

	Med Carbon Steel	Silicon Steel
Tension, Net Section	24000	32000
Axial Compression	24000	32000
Bending, Compression in Extreme Fiber	$1 + \frac{13500(1/r)^2}{24000}$	$1 + \frac{13500(1/r)^2}{32000}$
Shear - Girder Webs, Gross Section	15000	15000
Power Driven Rivets	15000	15000
Bearing - Steel Parts in Contact	30000	30000
Power Driven Rivets	30000	30000

APPROVED

Harold W. Wiggins
F. M. Masters

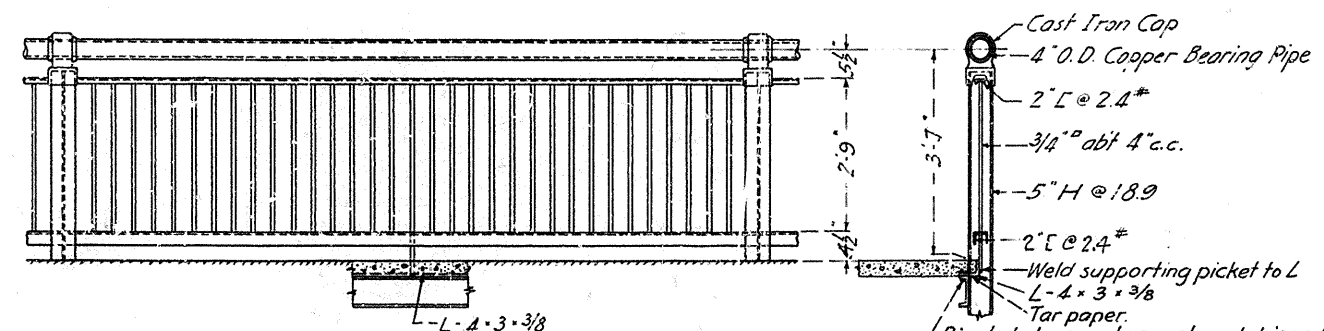
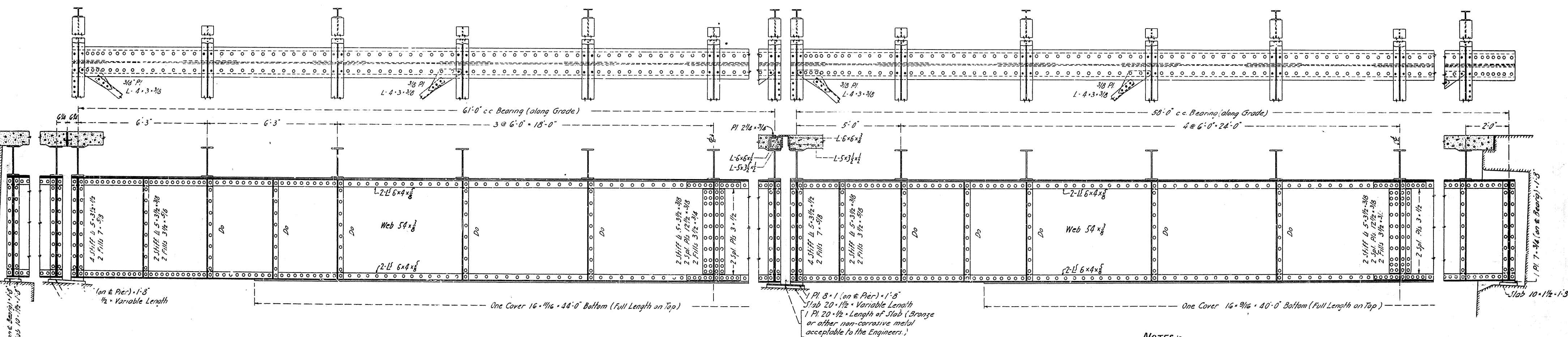
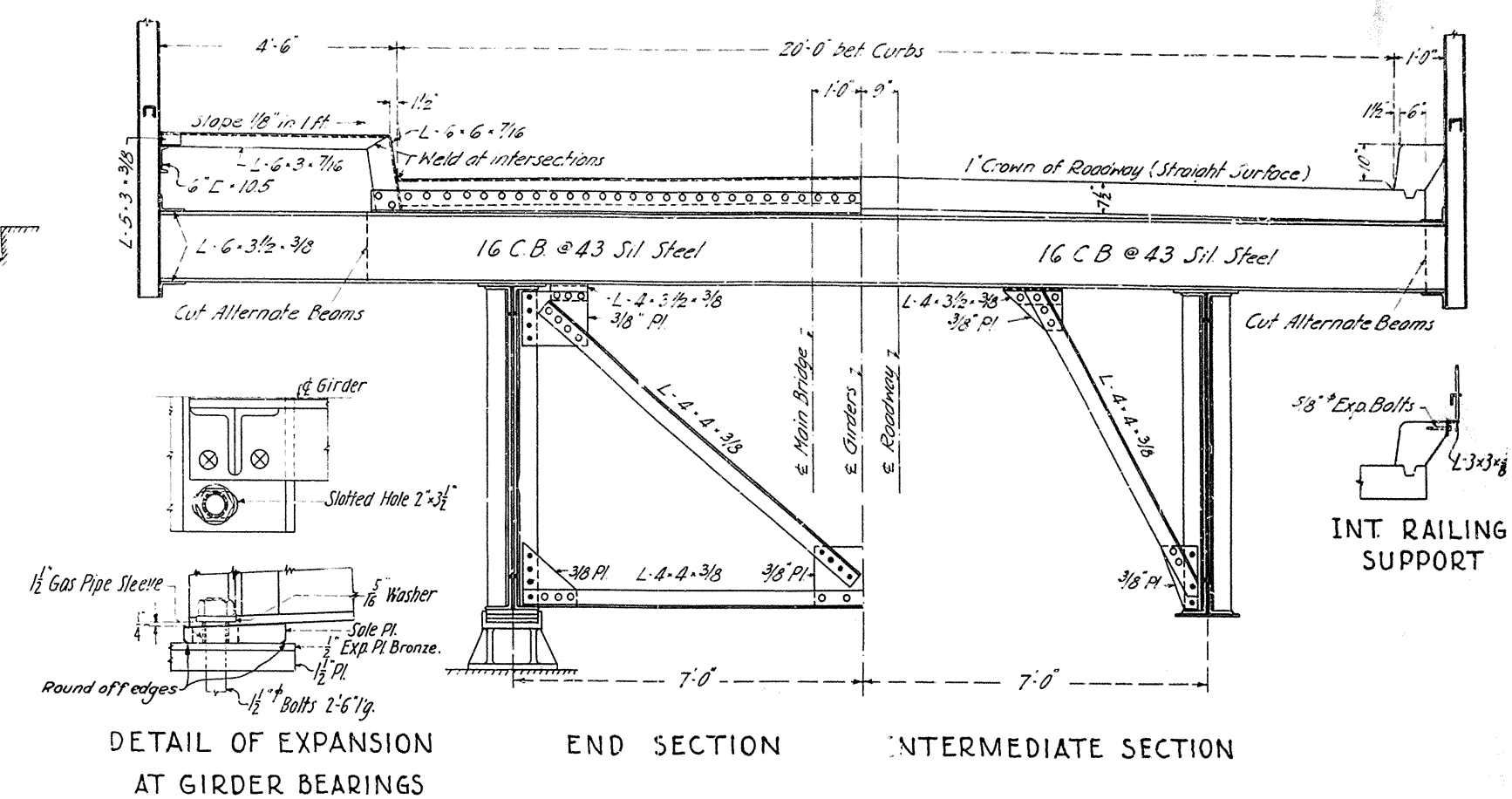
COMMONWEALTH OF KENTUCKY
STATE HIGHWAY DEPARTMENT
OHIO RIVER BRIDGE
CONNECTING
ABERDEEN, OHIO & MAYSVILLE, KY.

STRESS SHEET APPROACHES

SCALE IN FEET
10 0 10 20

JULY 1930
DRAWING NO. 12
CONTRACT NO. 2

MODJESKI AND MASTERS
ENGINEERS



DETAILS OF RAILING

Material :- Medium Carbon Steel except as noted
Rivets :- $\frac{7}{8}$ " ϕ
Anchor Bolts :- $\frac{1}{2}$ " ϕ $\times$ 2'-6", wedge type

APPROVED
Ralph Morgan
F. M. Masters

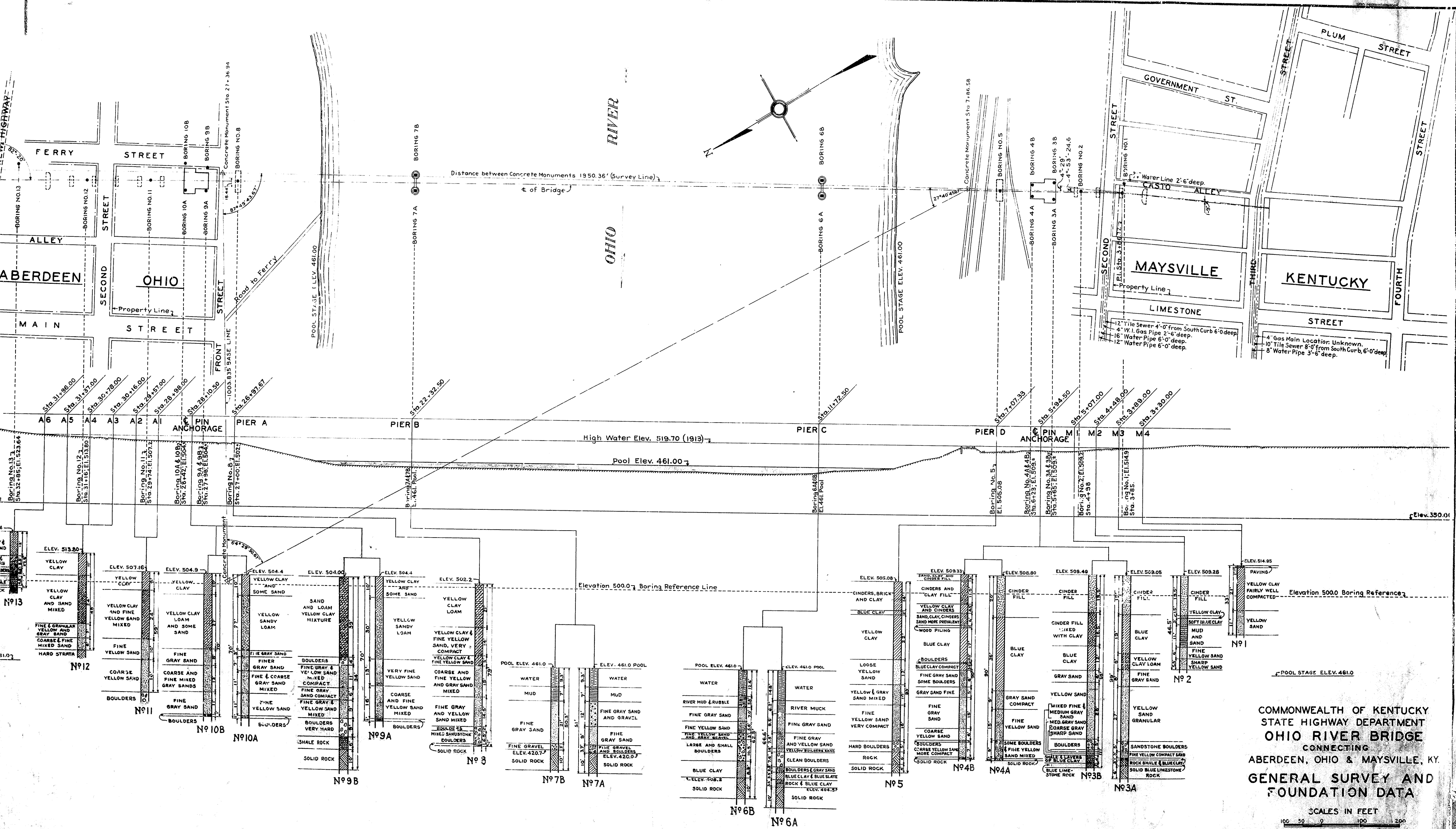
COMMONWEALTH OF KENTUCKY
STATE HIGHWAY DEPARTMENT
OHIO RIVER BRIDGE
CONNECTING
ABERDEEN, OHIO & MAYSVILLE, KY.
APPROACH STEELWORK

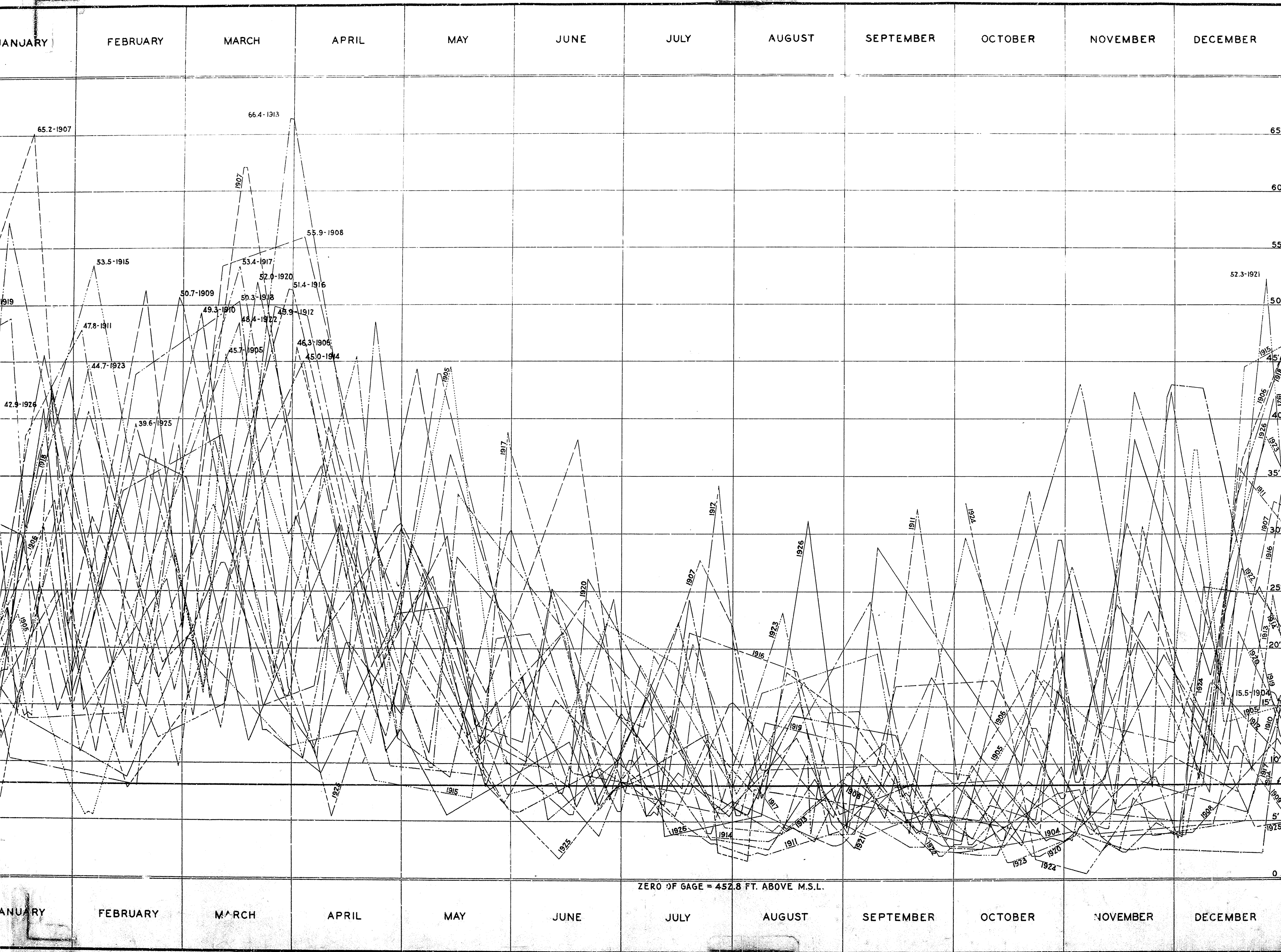
SCALE IN FEET

1 2 3
JULY 1930

DRAWING NO 13
CONTRACT NO 2

MODJESKI AND MASTERS
ENGINEERS





EXTREME HIGH AND LOW LEVELS				
YEAR	HIGH		LOW	
	MONTH	ELEV.	MONTH	ELEV.
1904	DEC.	15.5	DEC.	2.2
1905	MAR.	45.7	SEPT.	4.9
1906	APR.	46.3	SEPT.	5.0
1907	JAN.	65.2	OCT.	7.0
1908	APR.	55.9	OCT.	2.8
1909	FEB.	50.7	OCT.	2.8
1910	MAR.	49.3	AUG.	2.9
1911	FEB.	47.8	AUG.	2.3
1912	MAR.	49.9	DEC.	5.0
1913	MAR.	66.4	SEPT.	2.8
1914	APR.	45.0	OCT.	2.1
1915	FEB.	53.5	NOV.	4.4
1916	MAR.	51.4	SEPT.	3.4
1917	MAR.	53.4	OCT.	2.6
1918	MAR.	50.3	OCT.	2.9
1919	JAN.	50.0	OCT.	3.3
1920	MAR.	52.0	OCT.	2.0
1921	DEC.	52.3	SEPT.	2.7
1922	MAR.	48.4	SEPT.	2.0
1923	FEB.	44.7	OCT.	1.4
1924	OCT.	32.7	NOV.	0.4
1925	FEB.	39.6	AUG.	1.6
1926	JAN.	42.9	JULY	3.7

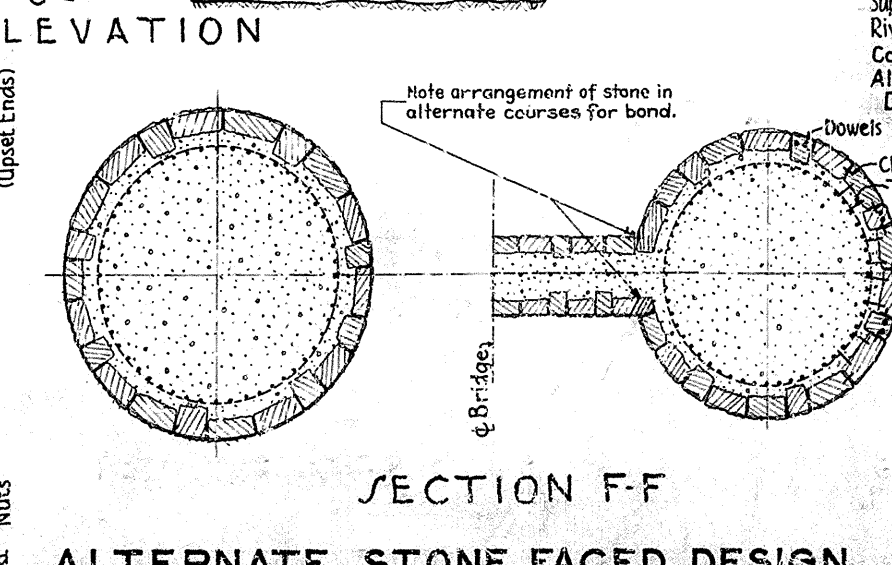
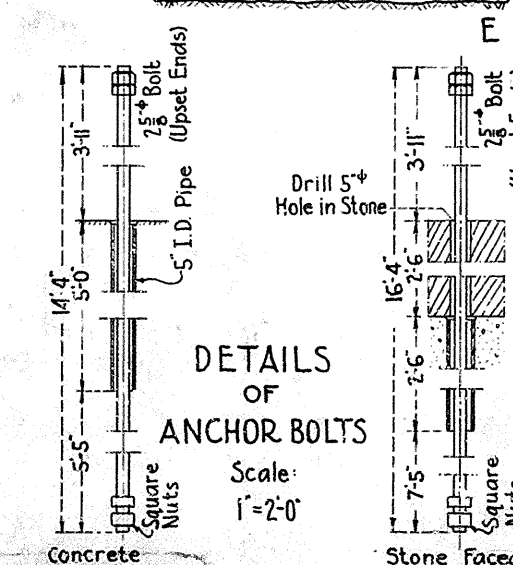
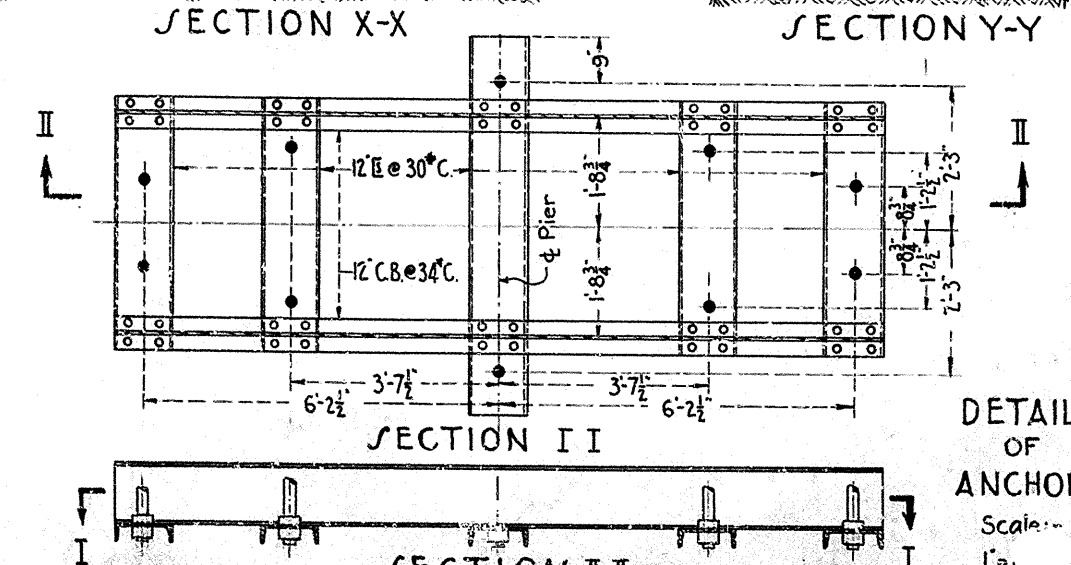
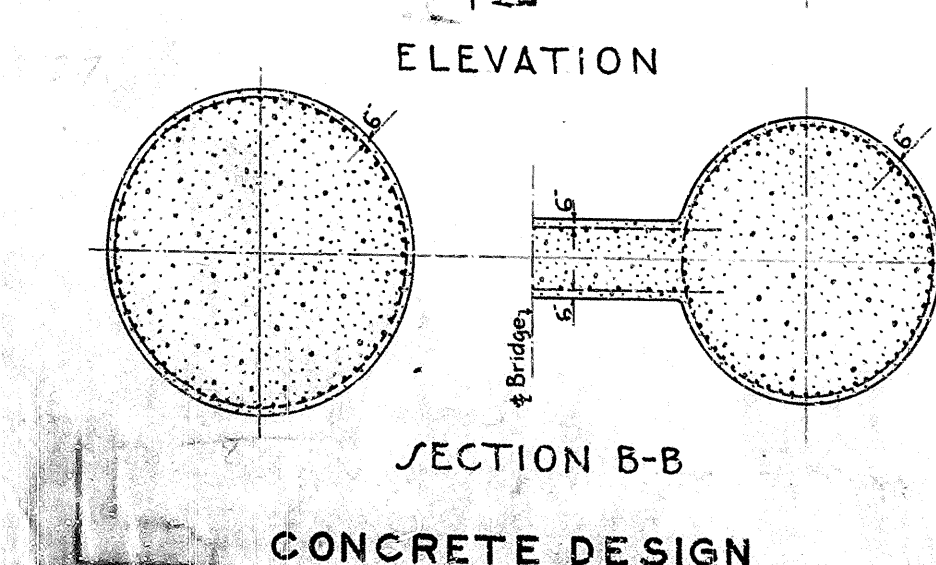
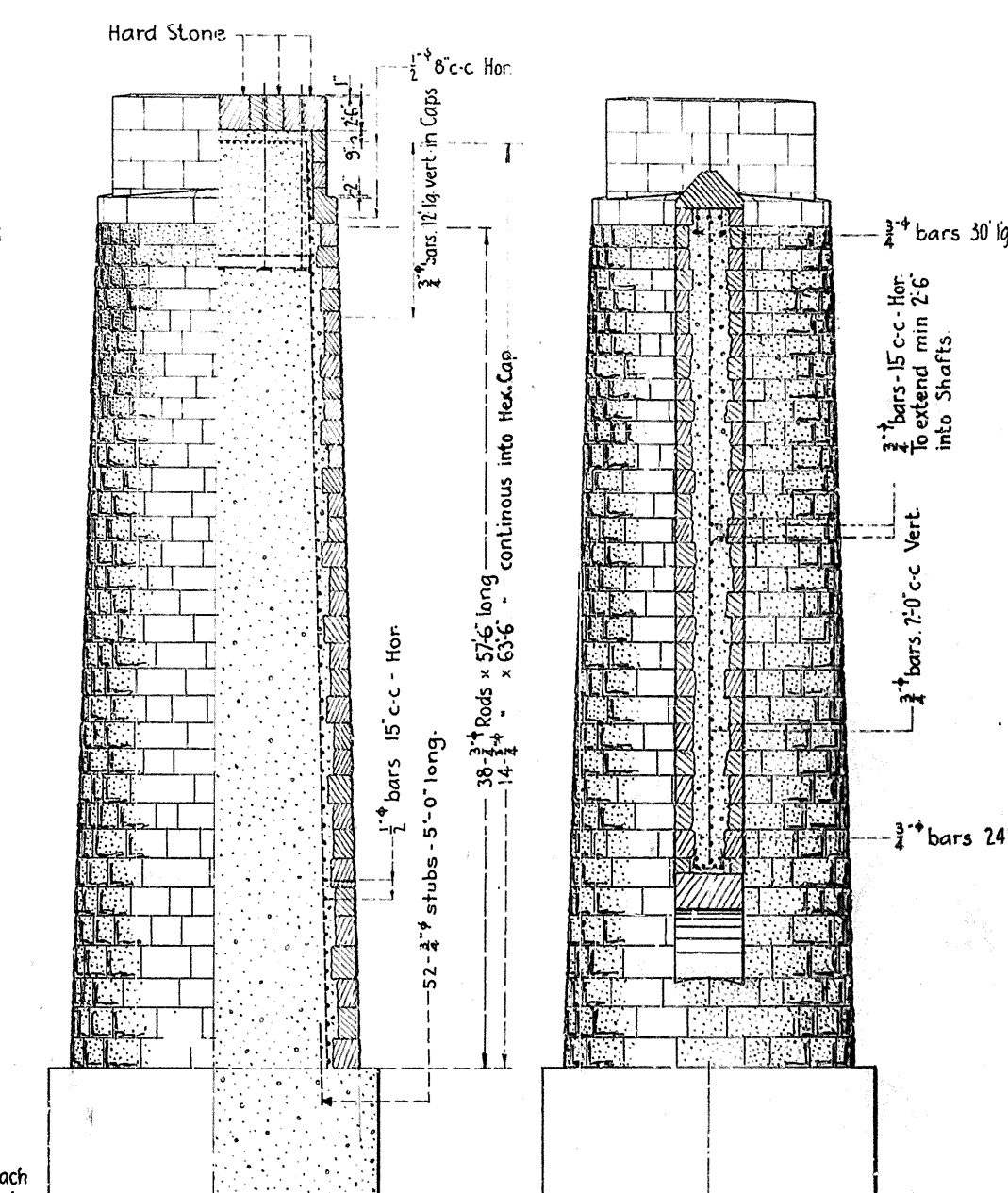
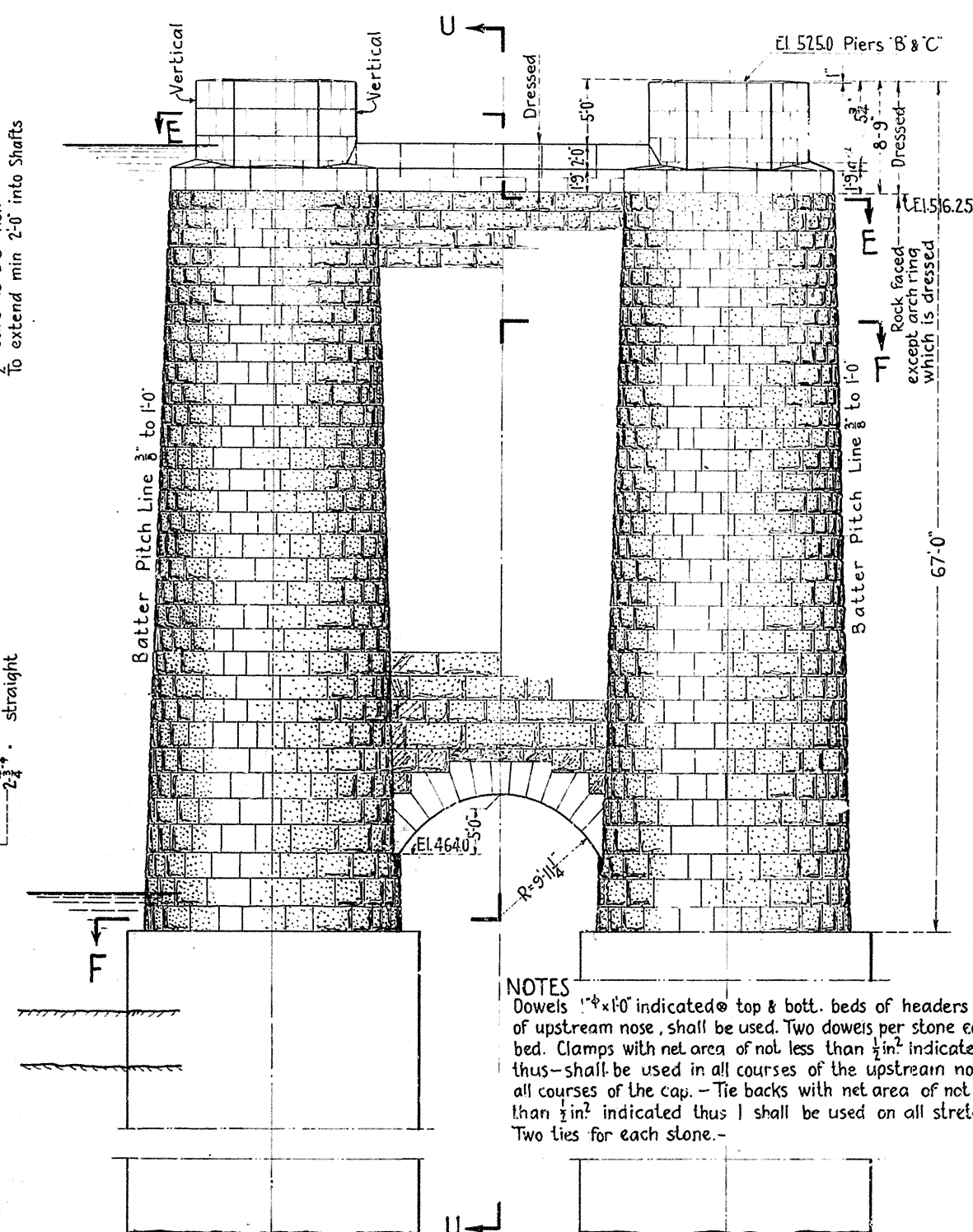
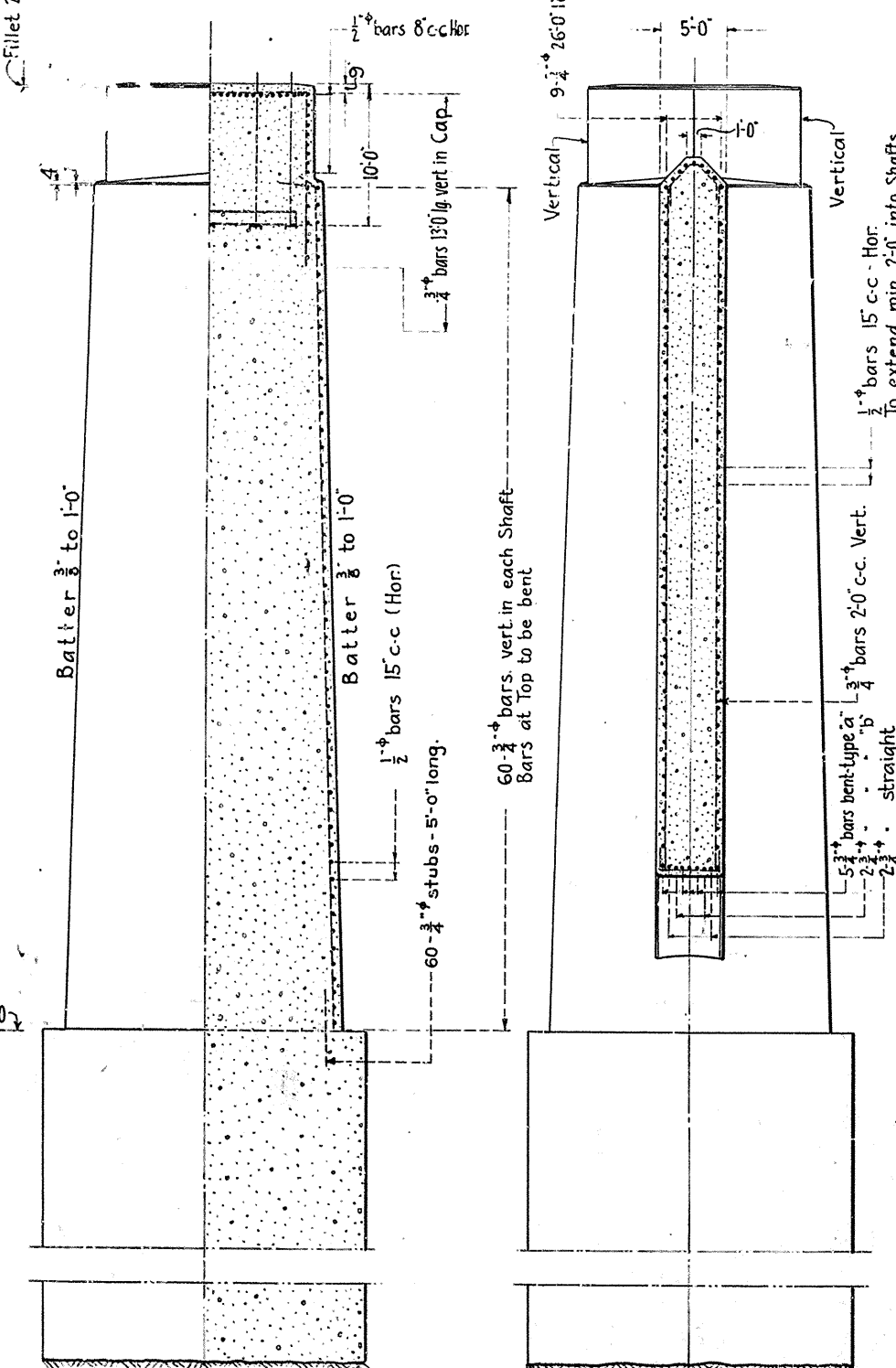
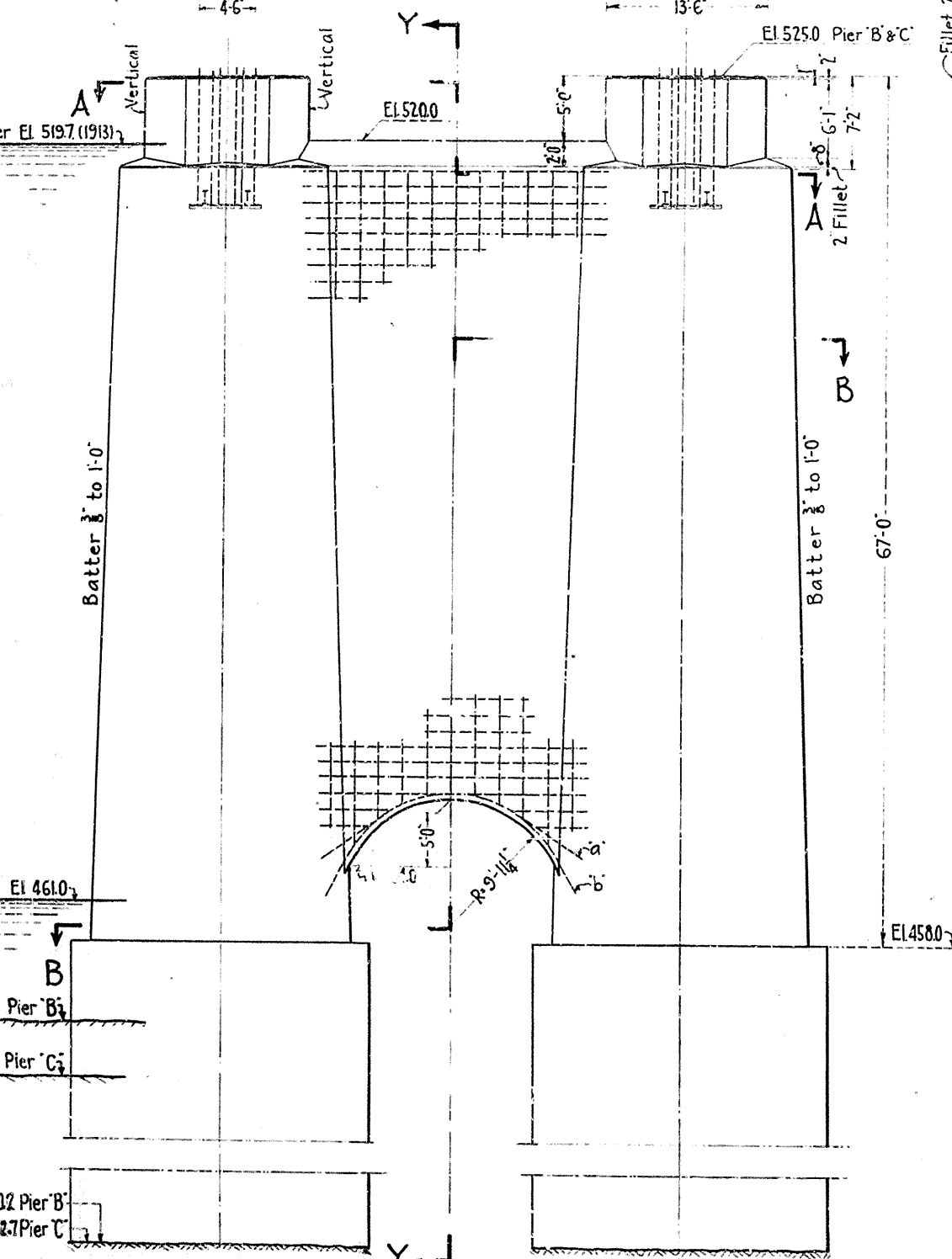
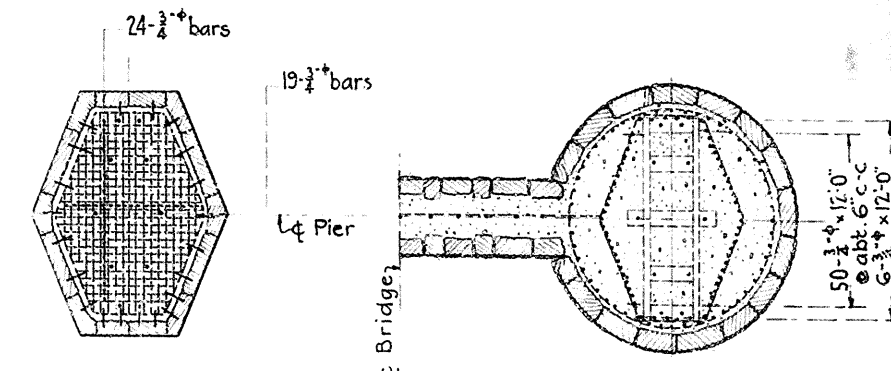
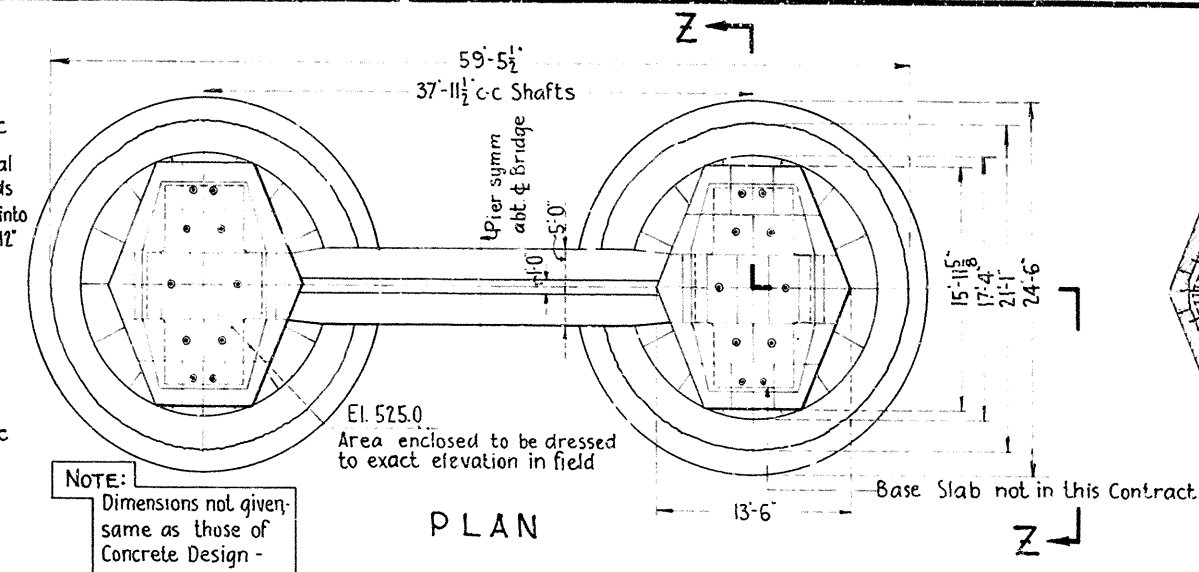
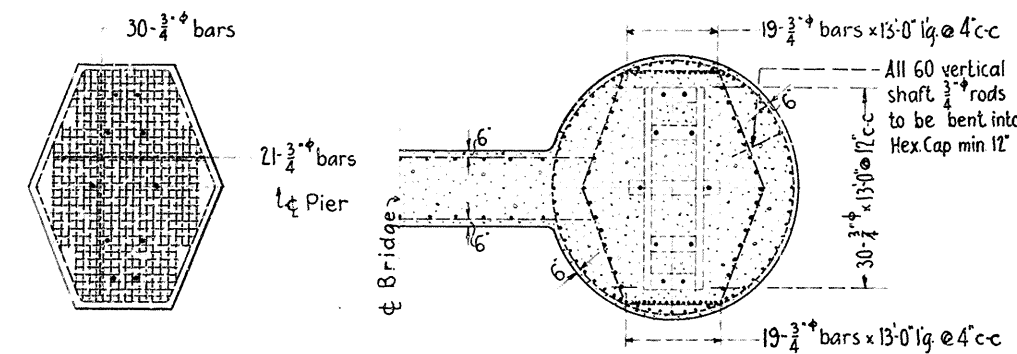
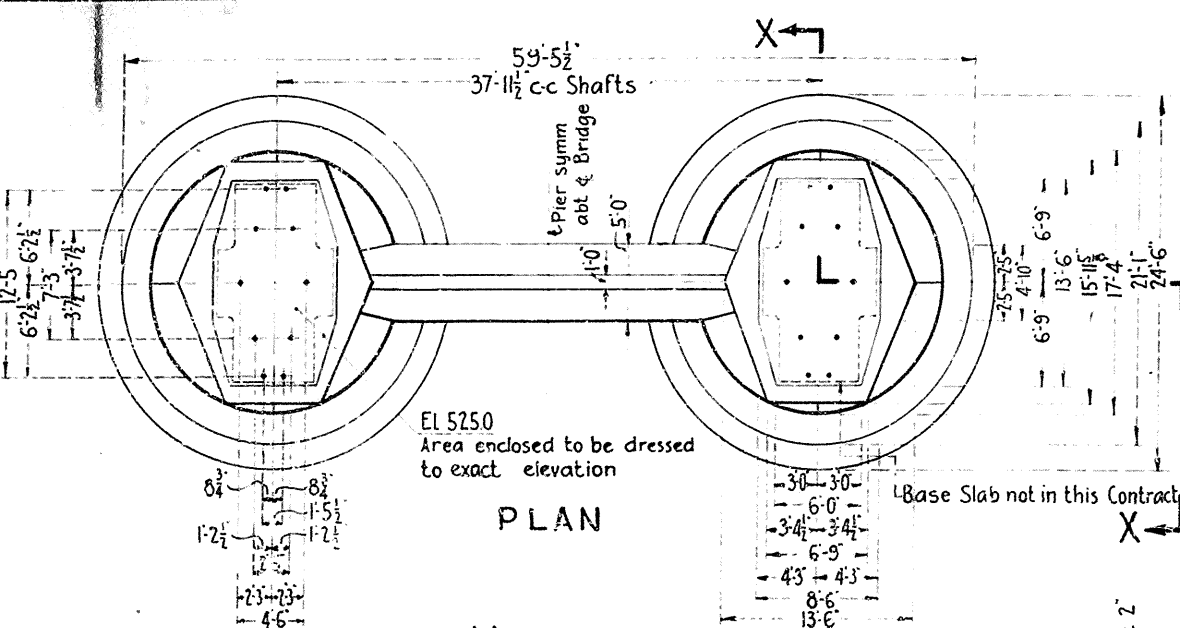
River Gage location, according to U.S. Department of Agriculture Weather Bureau Records, about 26' west of the foot of Market St. in Maysville, Ky.

**HYDROGRAPH
OF THE
OHIO RIVER
AT
MAYSVILLE, KY.**

MODJESKI & MASTERS
CONSULTING ENGINEERS
HARRISBURG, PA.

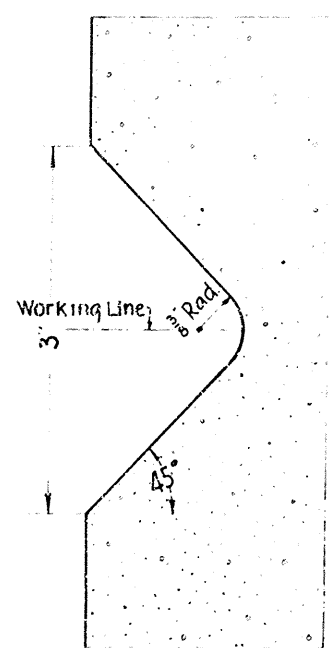
SUPPLEMENTARY DRAWING No. 2

Made by G.M.G.
CHK'd by J.A.S.



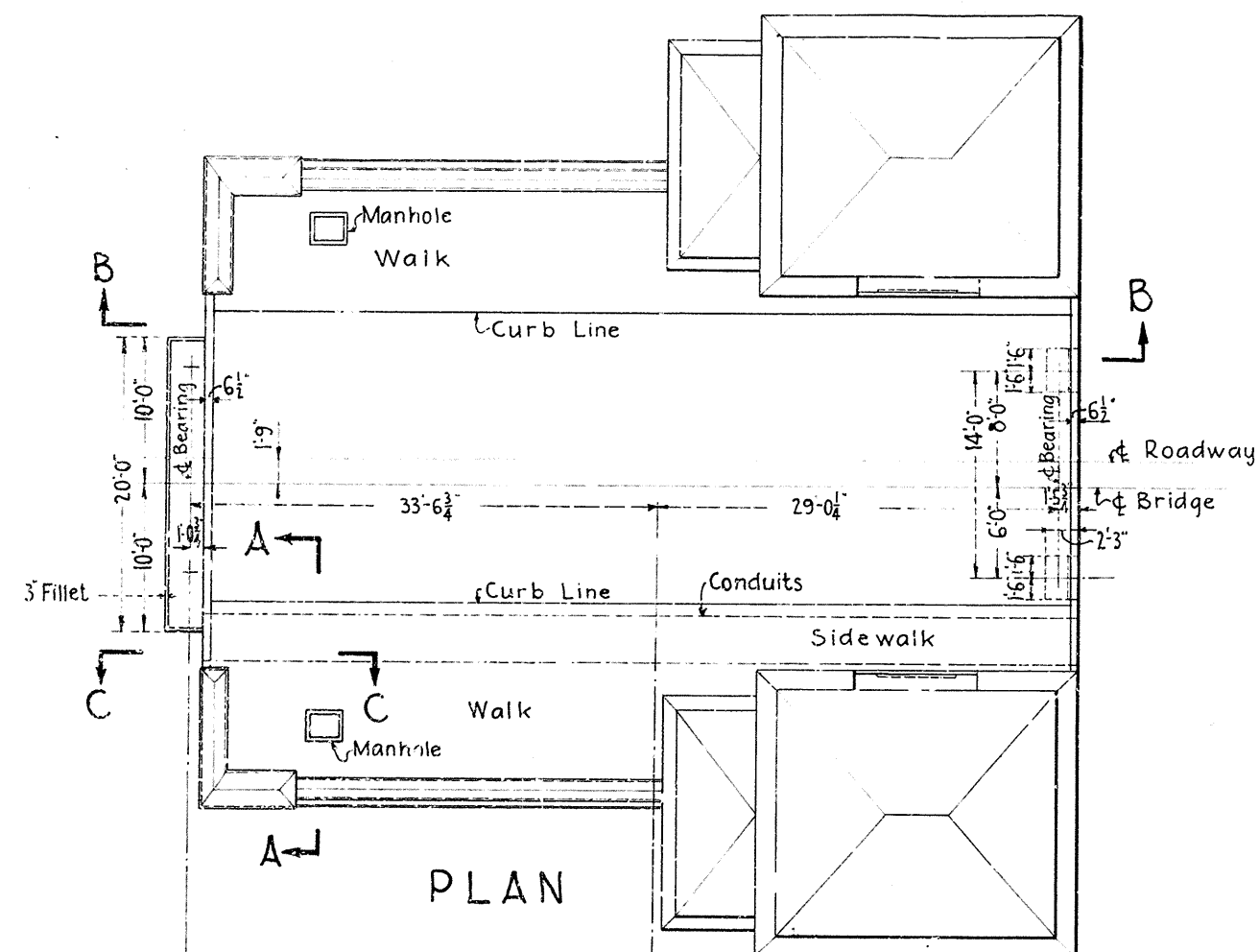
NOTES:-
Anchor & Anchor Bolts to be furnished by Superstructure Contractor & set by Substructure Contractor
Rivets: 3/4" Concrete behind Stone Facing class B
All other Concrete class A
Do not scale drawings for dimensions. See Specifications.
Clamps Tiebacks
APPROVED
Russell Shiguan
J. M. Masters
COMMONWEALTH OF KENTUCKY
STATE HIGHWAY DEPARTMENT
OHIO RIVER BRIDGE
CONNECTING
ABERDEEN OHIO & MAYSVILLE KY.
MAIN RIVER PIERS
SCALE IN FEET
10 5 0
JULY 1930
DRAWING N8 5
CONTRACT N8 1
MODJESKI AND MASTERS
ENGINEERS

ALTERNATE STONE FACED DESIGN

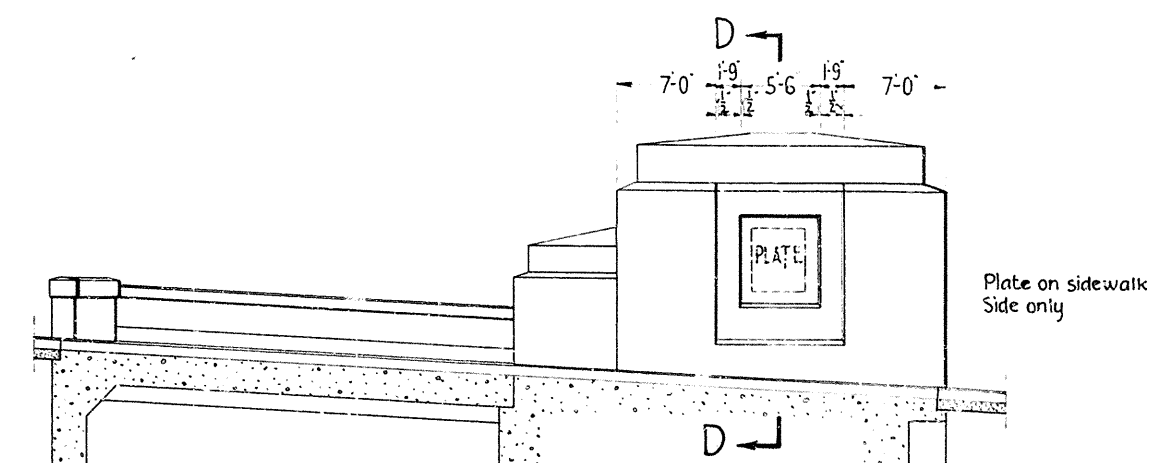


SECTION E-E

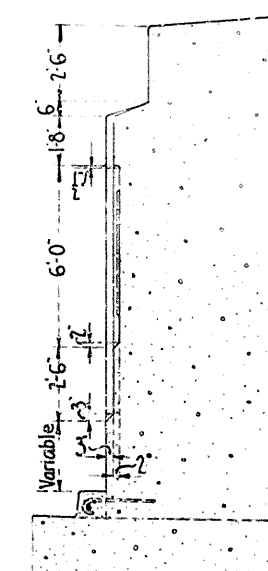
Full Scale



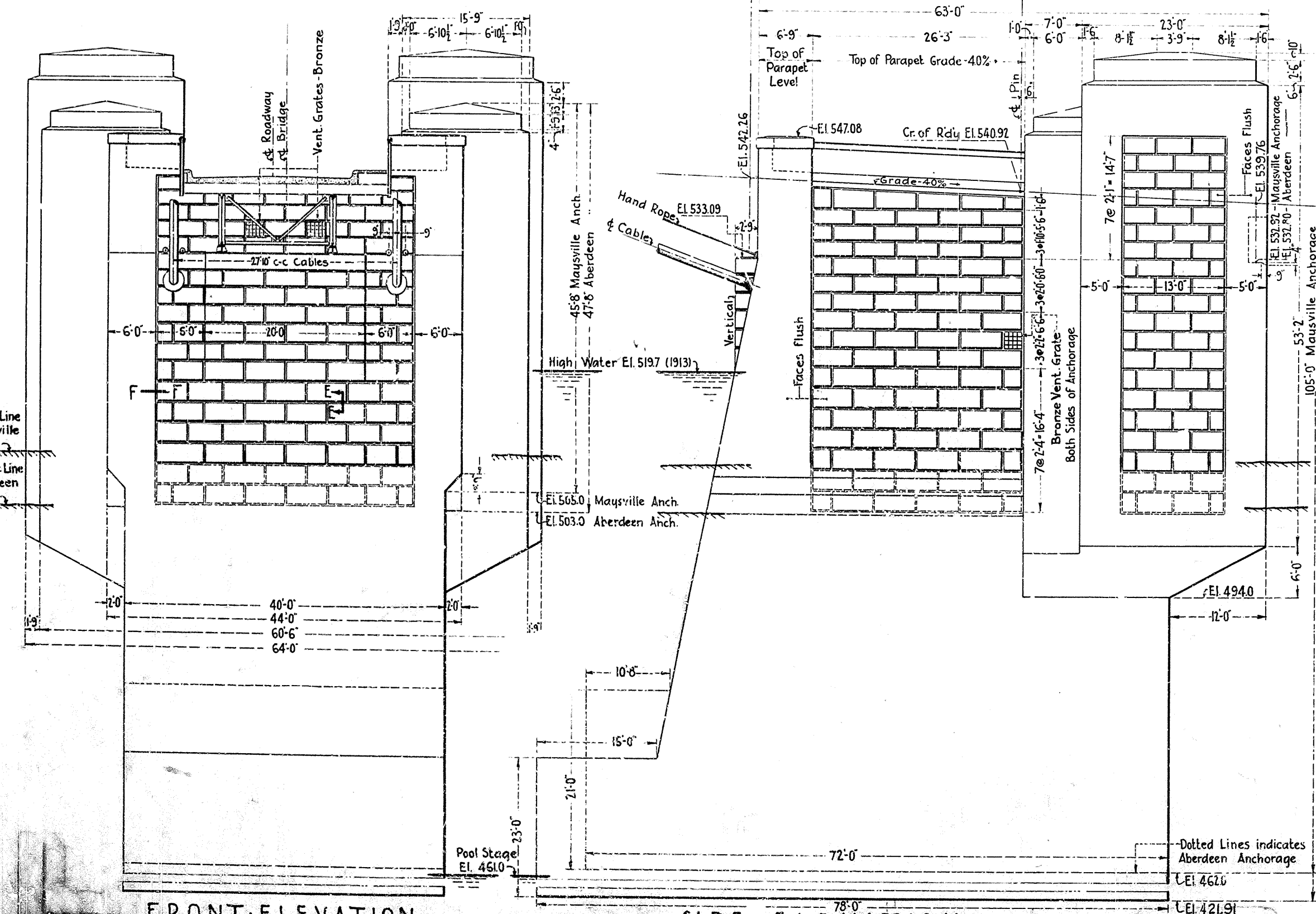
PLAN



SECTION B-B

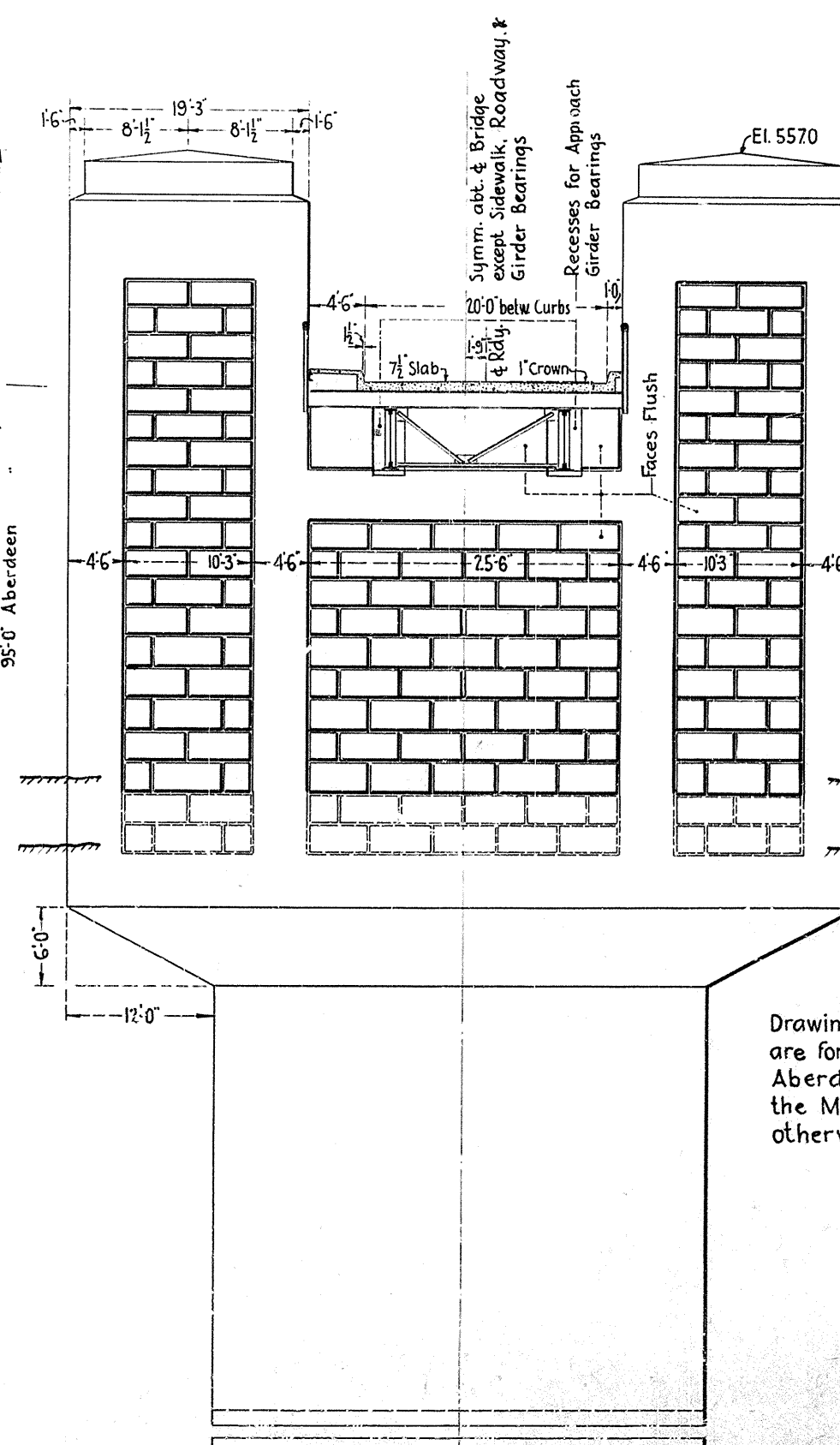


Scale $\frac{1}{4}'' = 1'-0''$

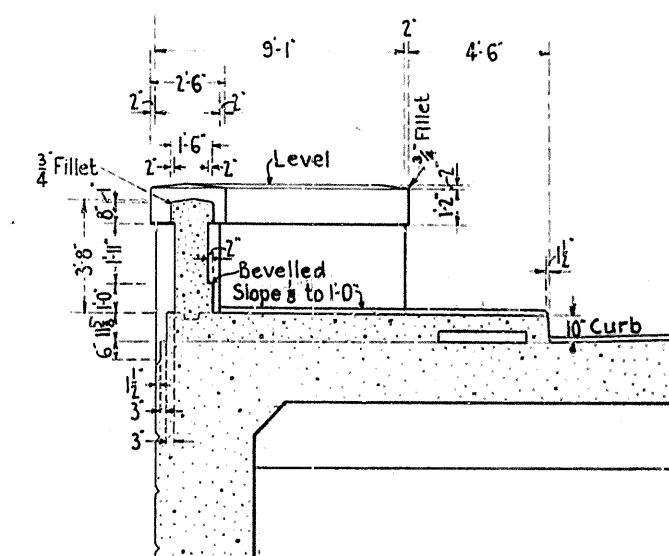


FRONT ELEVATION

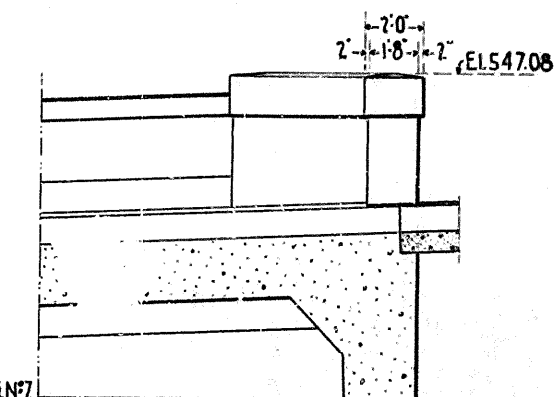
SIDE · ELEVATION



REAR ELEVATION



Scale $\frac{1}{4}'' = 1'-0''$



Scale $\frac{1}{4}'' = 1'-0''$

App. Gr. Line
Maysville Side El. 509.0±

App. Gr. Line
Aberdeen Side El. 504.5±

NOTES:-
For Dimensions not given see Sheet N7
Rustications shown dotted are for
Aberdeen Anchorage only -
For the location of Anchor Bolts
For Approach Girders see Drawg N°4 Cont. N°1 & 2

Drawings & Dimensions of Anchorage shown
are for the Maysville Side -
Aberdeen Anchorage to be opposite of
the Maysville Anchorage except as
otherwise noted -

APPROVED

Paul Morgan
F. M. Masters

COMMONWEALTH OF KENTUCKY
STATE HIGHWAY DEPARTMENT
OHIO RIVER BRIDGE
CONNECTING
ABERDEEN, OHIO & MAYSVILLE, KY.

ANCHORAGES

SCALE IN FEET
10 5 0

1930

JULY 1930

DRAWING NO.

CONTRACT No.

MODJESKI AND MASTERS
ENGINEERS

SECTION B-B

Clean-out Drain

Door Opening

Down Slope Floor to Drain

Down

20-1# bars 1'-4" c-c abt type 'b'

21-# bars 1'-4" c-c abt type 'b'

64-1# bars 1'-0" c-c type '1c'

3-# spacers 2'-0" c-c

43-# bars 1'-0" c-c type '1c'

64-1# bars 1'-0" c-c type '1c'

24-1# bars 1'-3" c-c abt type 'b'

23-1# bars 1'-3" c-c abt type 'a'

61-# bars 1'-0" c-c type '1c'

2-# spacers 2'-0" c-c

SECTION F-F
SECTION J-J SIMILAR

SECTION G-6
SECTION KKSIMILAR

HALF SECTION A-A

SECTION H-H
Scale $\frac{1}{2}'' = 1'-0''$

Approx. Ground Line El. 509.0 - Maysville Anchorage

Approx. Ground Line- El. 504.5-Aberdeen Anchorage

Stage El. 461.0

Dimensions on this line for Maysville Anchorage only

23'-0" 19'-0" 30'-0" 11'-0" 2'-0"

(Vertical)

Stage El. 461.0₂

SECTION D-D

SECTION E-E

SECTION L-L
Scale $\frac{1}{4}'' = 1'-0''$

SECTION M-M
Scale $\frac{1}{4}'' = 1'-0''$

NOTES:

Drawing & dimensions of the anchorage shown are for the Maysville side.-
Above Reinforcement to be opposite of the Maysville Anchorage except as noted.-
For dimensions not given, see dwg. N# 6 -
For anchorage steel work see dwg. N# 9 Cont. N# 2
Plain concrete to be class B, except tremie concrete which is class A.-
Reinforced concrete to be class A
All reinforcing bars to be deformed
Temperature reinforcement of $\frac{3}{4}$ " bars @ 1'-6" c/c for all outside surfaces and $\frac{3}{4}$ " @ 2'-0" c/c for all inside surfaces
Bars to be 4" back of surface whenever noted otherwise
All laps in reinforcing to be: 40 diameters.
The inside of anchorages to be given two coats of approved waterproofing compound.

APPROVED

Ray Morgan
E. M. Masters

E. M. Masten

COMMONWEALTH OF KENTUCKY
STATE HIGHWAY DEPARTMENT
OHIO RIVER BRIDGE
CONNECTING
ABERDEEN, OHIO & MAYSVILLE, KY.

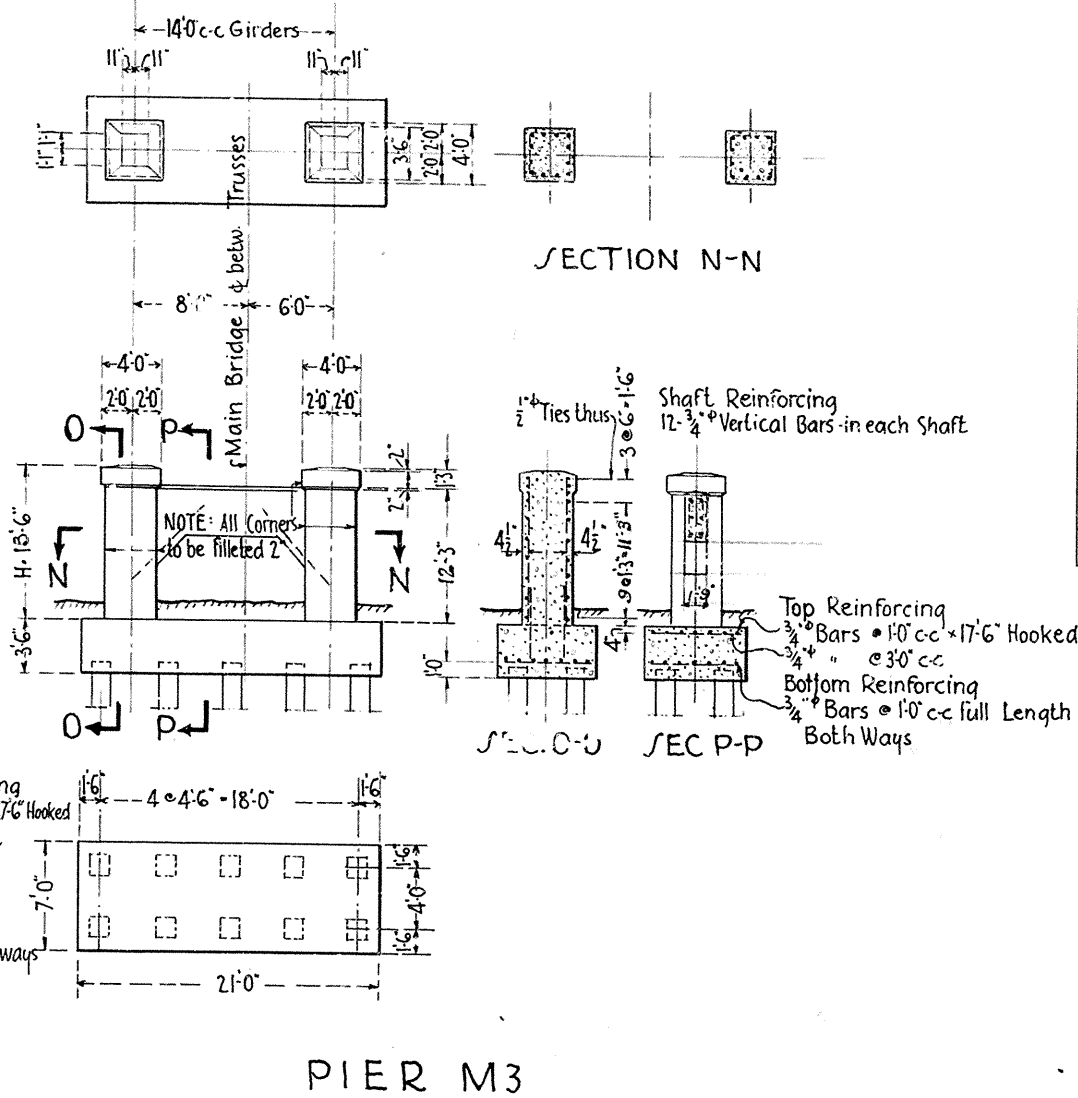
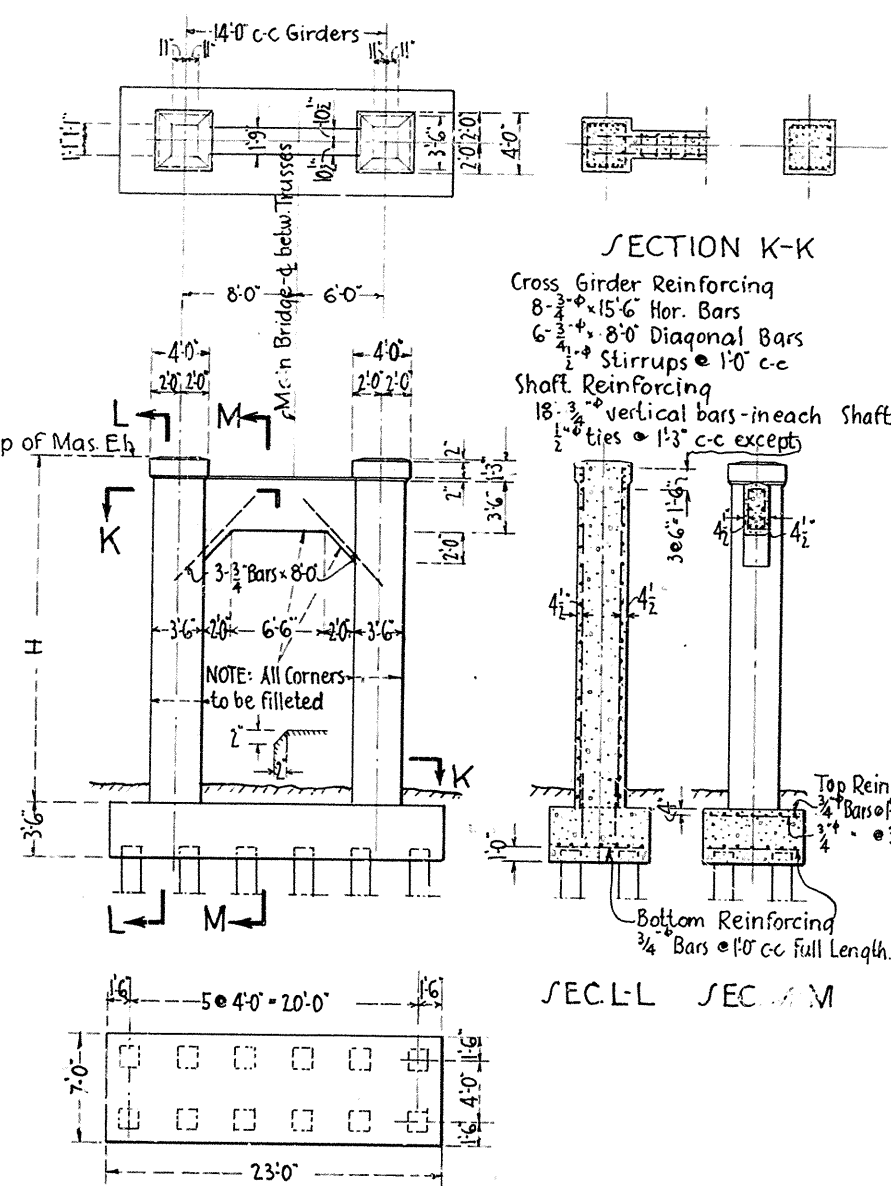
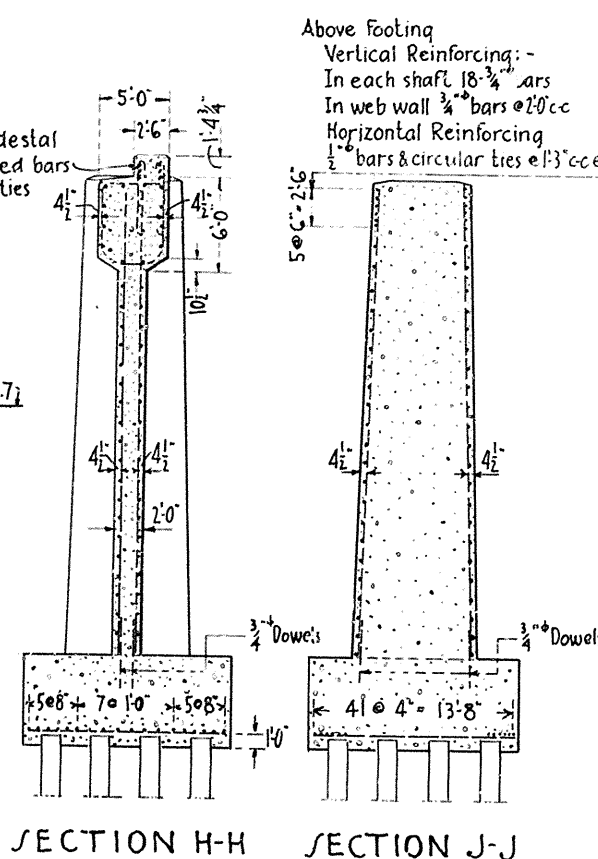
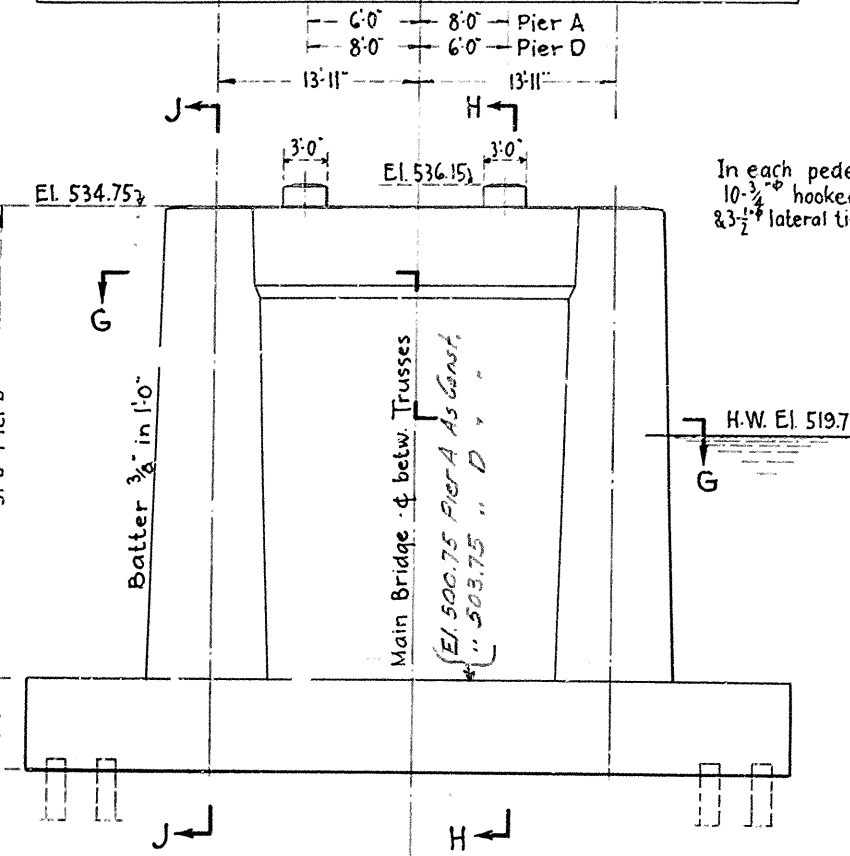
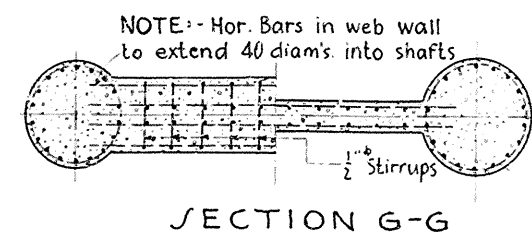
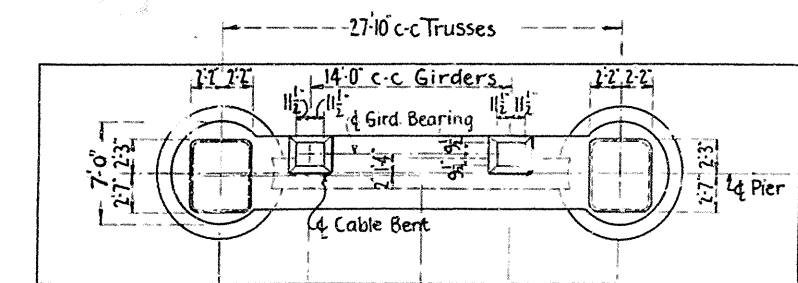
ANCHORAGES

SCALE IN FEET
10 5 0

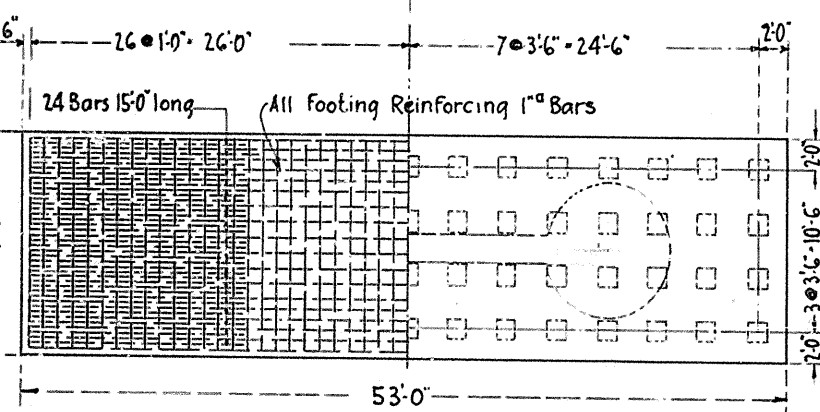
JULY 1930

DRAWING NO. 7
CONTRACT NO. 1

MODJESKI AND MASTERS
ENGINEERS



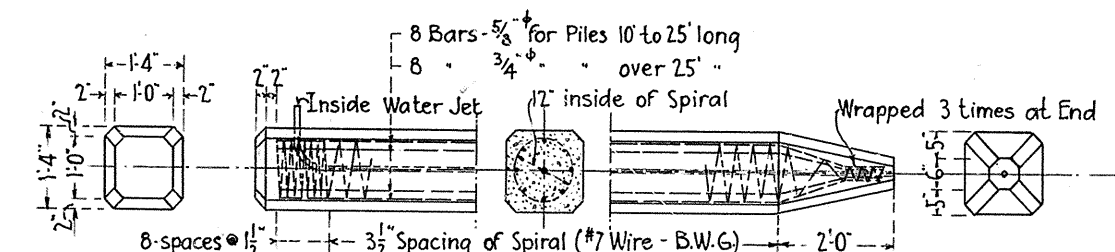
APPROACH PIERS					
Pier	Station	Top of Mas. Height El.	Number of Piles	Min. Pile Length	
Maysville Approach					
M1	5+07.00	530.54	12	35'0"	
M2	4+48.00	528.22	12	30'0"	
M3	3+89.00	525.82	10	25'0"	
Aberdeen Approach					
A1	28+98.00	530.77	12	35'0"	
A2	29+57.00	529.74	12	35'0"	
A3	30+16.00	529.09	12	35'0"	
A4	30+78.00	528.36	12	35'0"	
A5	31+37.00	527.60	10	35'0"	



HALF REINFORCING PLAN HALF PILE PLAN

PIERS A & D

PIERS M1 & M2
PIERS A1, A2, A3 & A4
PIER A5 (Except Footing which is same as for M3)

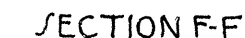
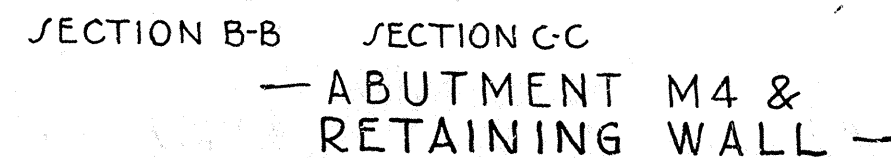
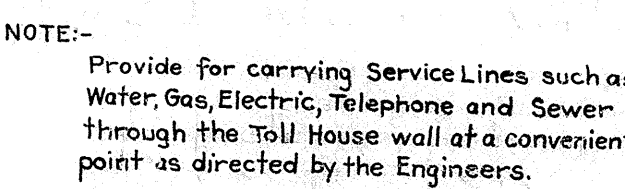
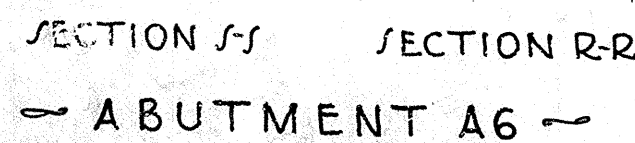
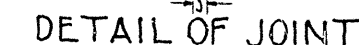
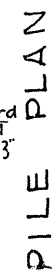
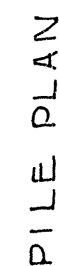


CONCRETE PILE

NOTES:-
Anchor bolts to be furnished and set by Super-structure Contractor.
For location of anchor bolts, see Masonry Plan Divg. N#4
Class 'D' concrete in Piles
All other concrete class A
Length of concrete piles to be determined in the field by test piles to support a min. load of 50 tons

APPROVED
Raymond Mays
F.M. Masters

COMMONWEALTH OF KENTUCKY
STATE HIGHWAY DEPARTMENT
OHIO RIVER BRIDGE
CONNECTING
ABERDEEN OHIO & MAYSVILLE, KY.
APPROACH PIERS
SCALE IN FEET
1 0 5 10 15
JULY 1930
DRAWING NO. 8
CONTRACT NO. 1
MODJESKI AND MASTERS
ENGINEERS



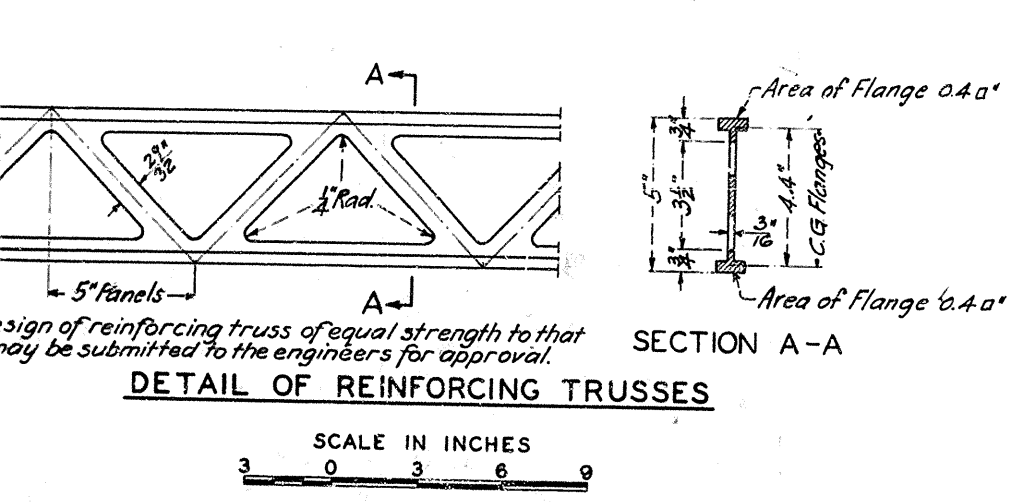
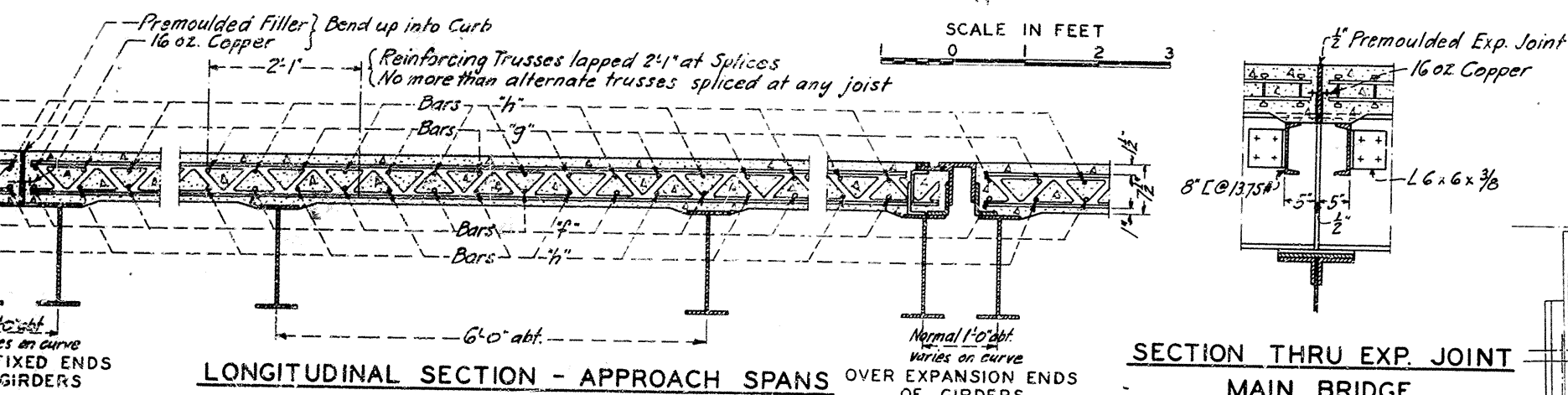
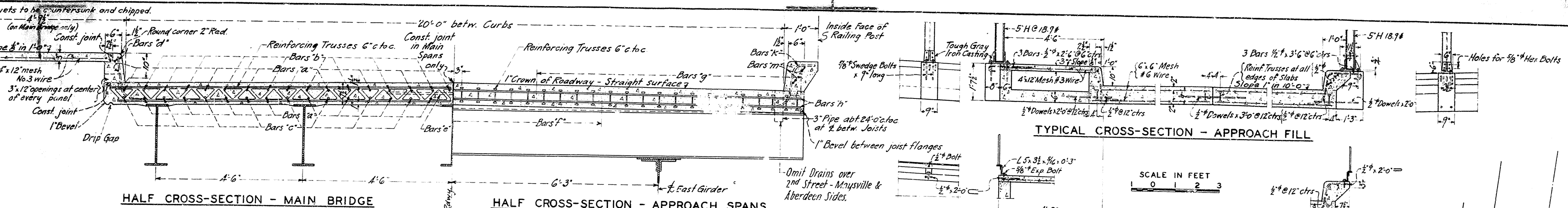
NOTES:-

- Anchor bolts to be furnished by Superstructure-Contractor and set by Substructure Contractor.
- Class 'D' concrete in Piles
- All other concrete Class 'A'
- Length of concrete piles to be determined in the field by test piles to support a min. load of 50 tons.
- For location of anchor bolts see Masonry Plan DWG#14
- Surfaces in contact with fill on abutments, Retaining and Toll House walls to be given two coats of approved waterproofing compound.

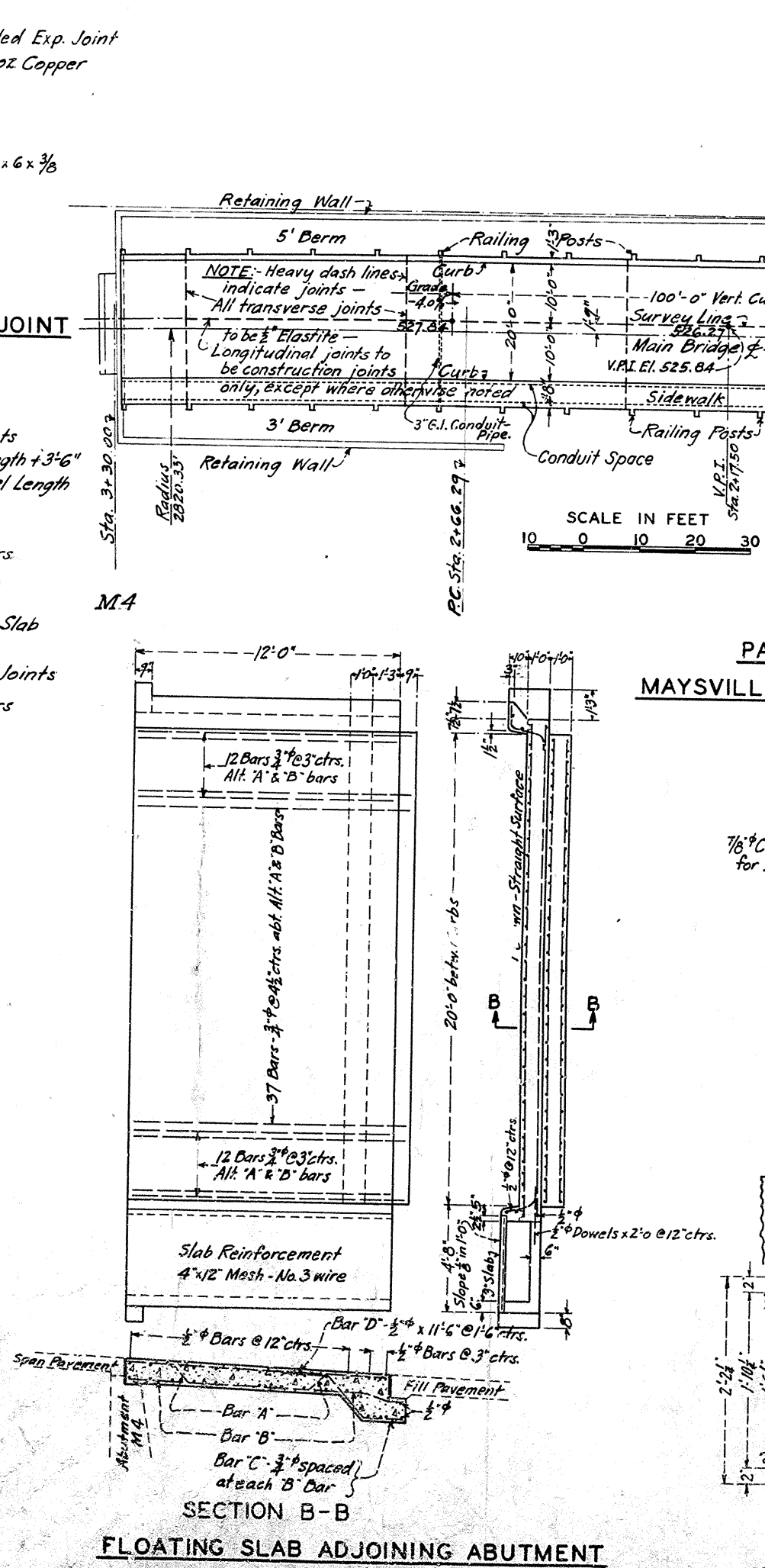
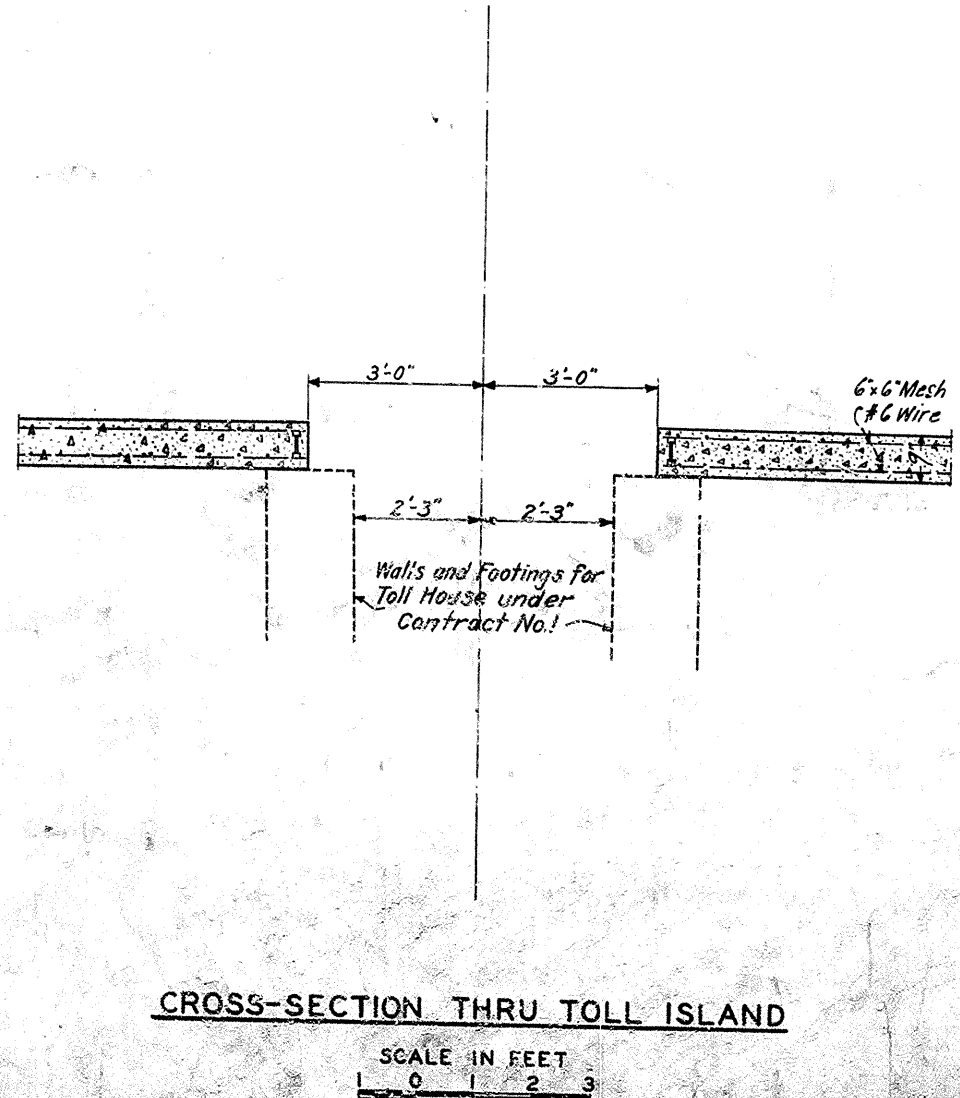
COMMONWEALTH OF KENTUCKY
STATE HIGHWAY DEPARTMENT
OHIO RIVER BRIDGE
CONNECTING
ABERDEEN, OHIO & MAYSVILLE, KY

ABUTMENTS & RETAINING WALLS

SCALES IN FEET
10 12 34 5 0 0 1 2 3 4 5 6 7 8 9 10
 JULY 1930
 DRAWING N^o 9
 CONTRACT N^o 1
 MODJESKI AND MASTERS
 ENGINEERS



- Reinforcing Steel:**
- a - 1/2" x 15' cts - Continuous between Expansion Joints
 - b - 1/2" x 15' - Over Floorbeams for 20% of Panel Length + 3'-6"
 - c - 1/2" x 15' - At center of Panels for 75% of Panel Length
 - d - 1/2" x 12' - Bent as shown
 - e - 1/2" x 24' - 4'-0" long
 - f - 1/2" x 15' - 10'-6" long, midway between Girders
 - g - 1/2" x 15' - 8'-0" long on East Side
 - h - 1/2" x 15' - 6'-6" long on West Side
 - i - 1/2" x 15' - Continuous for Width of Roadway Slab
 - k - 1/2" x 12' - Bent as shown
 - m - 1/2" - Continuous between Expansion Joints
- NOTE:** All above reinforcing steel, deformed bars

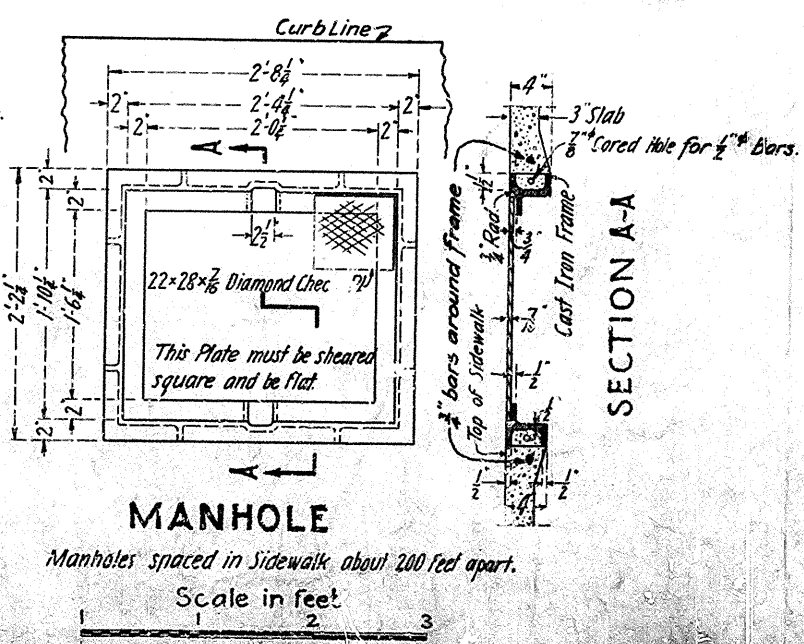


TYPICAL CROSS-SECTION - APPROACH FILL

INTERMEDIATE RAILING SUPPORTS

PAVING PLAN MAYSVILLE APPROACH FILL

SECTION C-C DETAIL OF CATCH BASIN



NOTES:

- All concrete Class "F" (1:2:3 1/2)
- All reinforcing bars deformed type - to be lapped 40 diameters at all splices.
- Adjacent sheets of wire mesh reinforcing to be lapped not less than one half of the width of the spacing.

COMMONWEALTH OF KENTUCKY
STATE HIGHWAY DEPARTMENT
OHIO RIVER BRIDGE
CONNECTING
ABERDEEN, OHIO & MAYSVILLE, KY.
DETAILS OF ROADWAY

APPROVED
Ralph M. Masters
J. M. Masters

SCALES AS SHOWN
JULY 1930
CONTRACT NO. 1 DRAWING NO. 10
CONTRACT NO. 2 DRAWING NO. 11
MODJESKI AND MASTER
ENGINEERS