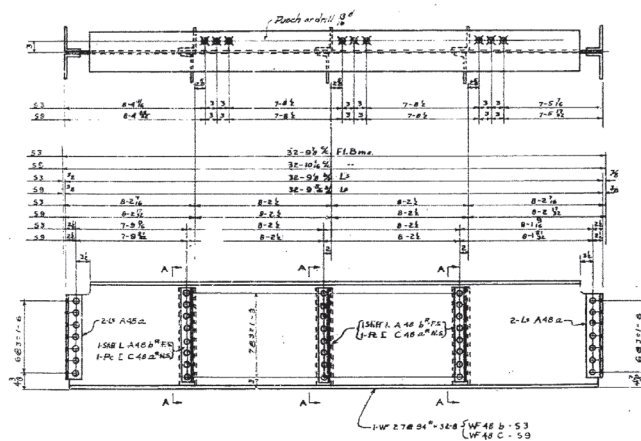
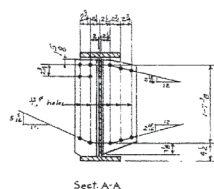
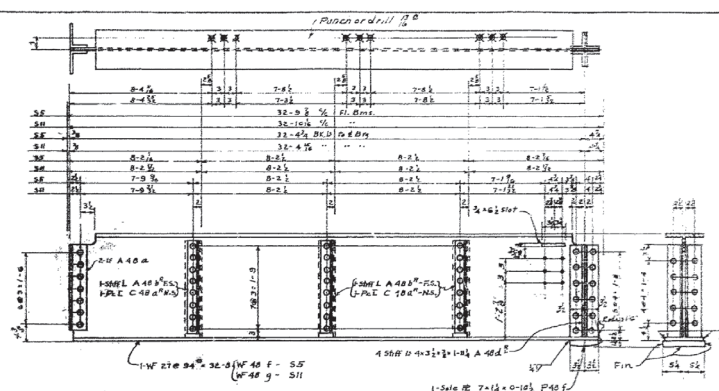
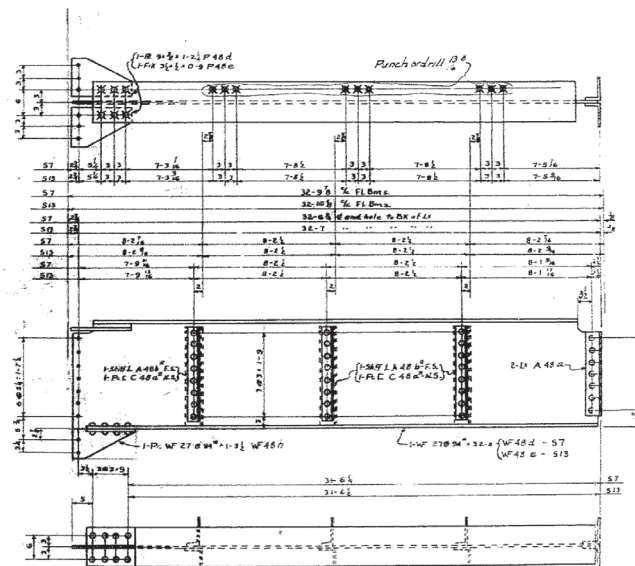


Si^R

S3^R-S9^R



Sect. A-A


$$S5^R-S11^R$$


57^R-513^R

Furnished by: Stupp Bros.

[illegible]

End and edge distances: 12 inches min.

MATERIAL Structural Carbon Steel
 SPECIFICATION Special
 DESIGNED BY U.S. Engineers
 FINISH One coat of Red Lead
 No assembly paint to be used.
 FIELD PAINT Others
 BOLTS 3/4" NUTS 3/4" WASHERS 3/4" PLATE 1/2"
 REINFORCING Unreinforced Form helps punch
3/4" and reamed to 1/2" to rivet template
 to plate temporarily assembled.
 FIELD CONNECTION Rivets
 DESIGNED BY Others

KANSAS CITY FLOOD CONTROL PROJECT
LIBERTY BEND BRIDGE
MISSOURI RIVER

DETAILS OF SPRINGERS

THE MT. VERNON BRIDGE CO.
MT. VERNON, OHIO

IN CHARGE OF *Naite*

MADE BY W.E.D. 7/2/57 CHECKED BY A.B.V. 8/2/57

JACKSON COUNTY

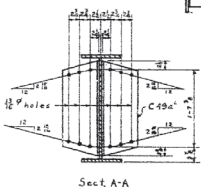
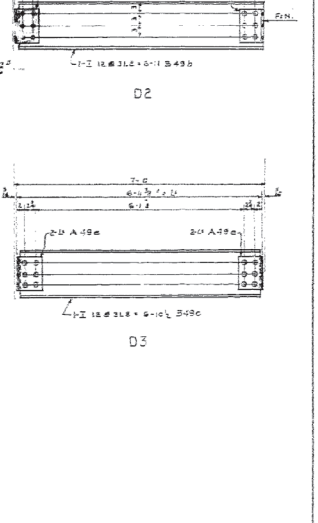
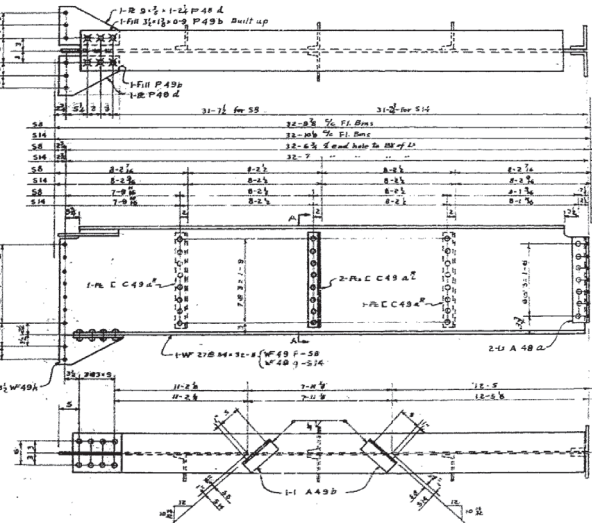
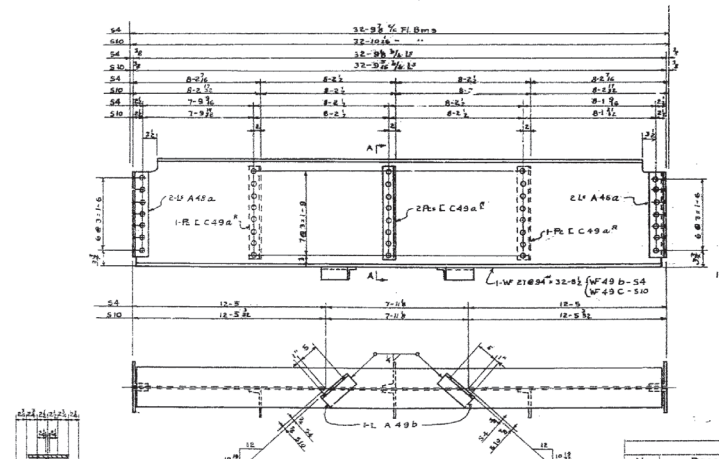
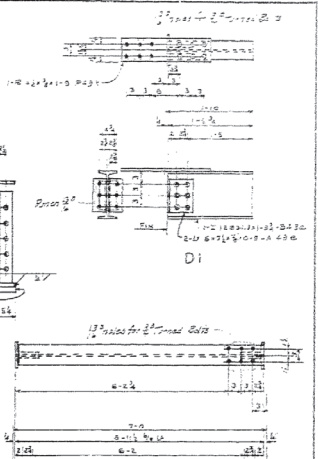
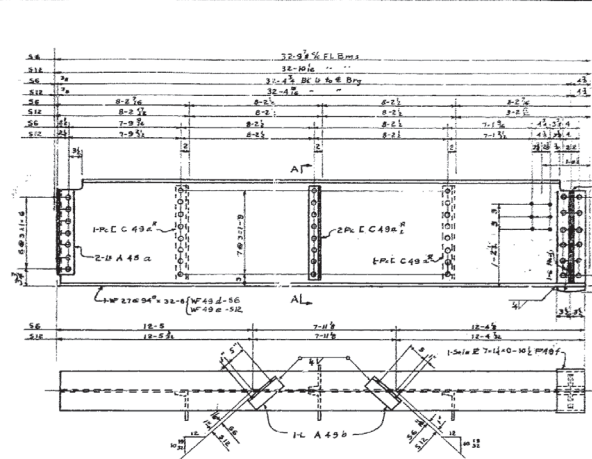
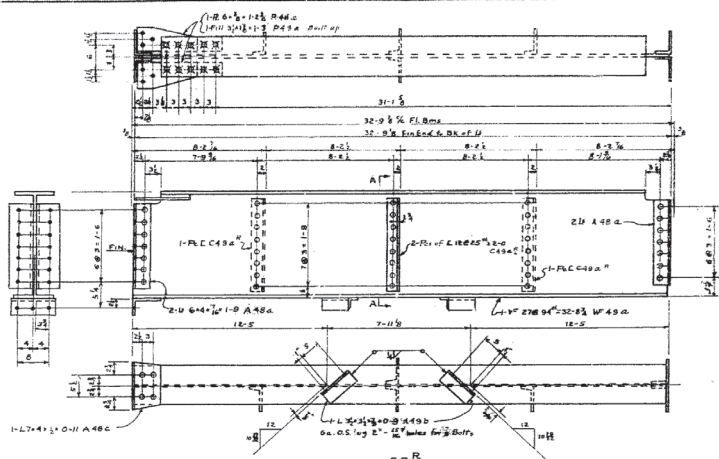
CONT. NO. 6560 SHEET 40

SA. 622 L-563

Y 22-3

100% $\rightarrow$ $\frac{100}{100} = 1$

501



Furnished by Shupp Bros

REQUIRED LIST					
No	Description	Mark	No	Description	Mark
2	Stringers	52R	2	Stringers	58R
2	"	52L	2	"	58L
14	Stringers	54R	2	"	54R
14	"	54L	2	"	54L
4	"	510R			
4	"	510L			
2	"	56R	8	Diaphragms	D1
2	"	56L	16	Angles Bolt & brace D2	D2
2	"	512R	4	Diaphragms	D3
2	"	512L			

Structural Carbon Steel
 Kansas City Flood Control Project
 Liberty Bend Bridge
 Missouri River
 DETAILS OF Stringers
 THE MT. VERNON BRIDGE CO.
 MT. VERNON, OHIO
 IN CHARGE OF J. L. L. L.
 CHECKED BY J. L. L. L.
 CONT. NO. 6566
 SHEET 49

End and edge members - stress noted.
 KANSAS CITY FLOOD CONTROL PROJECT
 LIBERTY BEND BRIDGE
 MISSOURI RIVER
 DETAILS OF Stringers
 THE MT. VERNON BRIDGE CO.
 MT. VERNON, OHIO
 IN CHARGE OF J. L. L. L.
 CHECKED BY J. L. L. L.
 CONT. NO. 6566
 SHEET 49

83

663

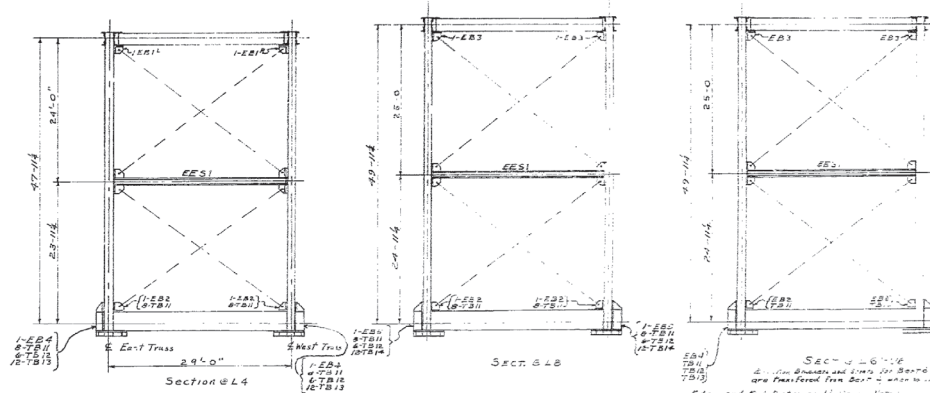
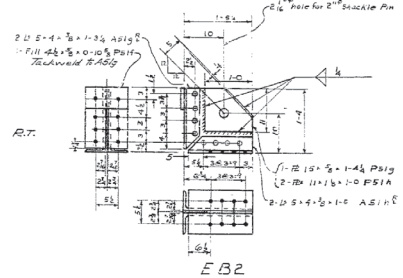
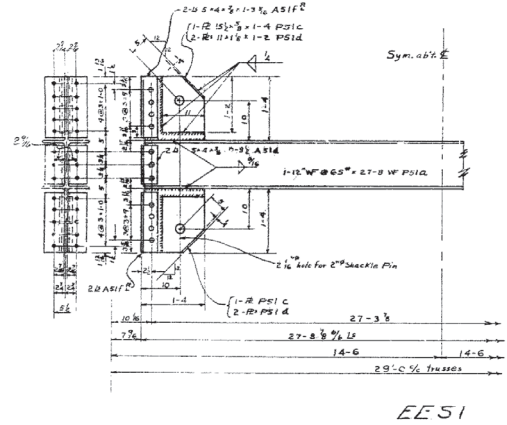
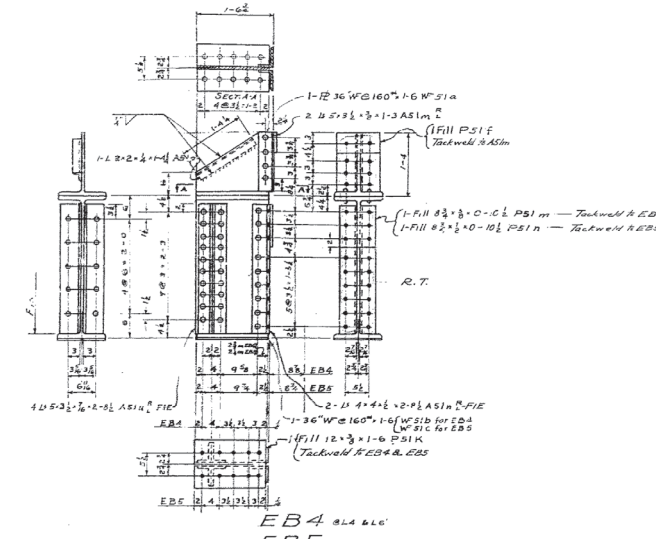
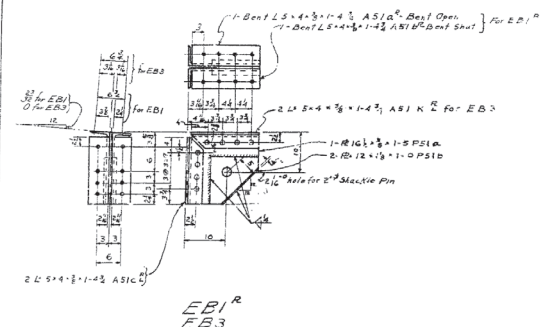
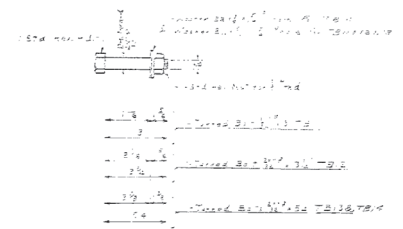
79-1

40



KANSAS CITY FLOOD CONTROL PROJECT
LIBERTY BEND BRIDGE
MISSOURI RIVER
DETAILS OF: *Curb Sections*
THE MT. VERNON BRIDGE CO.
MT. VERNON, MO
IN CHARGE OF: *W. H. H. H.*
MADE BY: *W. H. H. H.* CHECKED BY: *W. H. H. H.*
JACKSON COUNTY
CONT. NO. *6566* SHEET *50*

EB - a, b, c, d, e, f, g, h, i, j, k, l, m, n, p, q, r, s, t, u, v, w, x, y, z, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000



REQUIRED LIST

No.	DESCRIPTION	MARK
1	Reinforcement Bars	EB1
2	Reinforcement Bars	EB2
3	Reinforcement Bars	EB3
4	Reinforcement Bars	EB4
5	Reinforcement Bars	EB5
6	Reinforcement Bars	EES1
7	Reinforcement Bars	EB2
8	Reinforcement Bars	EB3
9	Reinforcement Bars	EB4
10	Reinforcement Bars	EB5
11	Reinforcement Bars	EES1
12	Reinforcement Bars	EB2
13	Reinforcement Bars	EB3
14	Reinforcement Bars	EB4
15	Reinforcement Bars	EB5
16	Reinforcement Bars	EES1
17	Reinforcement Bars	EB2
18	Reinforcement Bars	EB3
19	Reinforcement Bars	EB4
20	Reinforcement Bars	EB5
21	Reinforcement Bars	EES1
22	Reinforcement Bars	EB2
23	Reinforcement Bars	EB3
24	Reinforcement Bars	EB4
25	Reinforcement Bars	EB5
26	Reinforcement Bars	EES1
27	Reinforcement Bars	EB2
28	Reinforcement Bars	EB3
29	Reinforcement Bars	EB4
30	Reinforcement Bars	EB5
31	Reinforcement Bars	EES1
32	Reinforcement Bars	EB2
33	Reinforcement Bars	EB3
34	Reinforcement Bars	EB4
35	Reinforcement Bars	EB5
36	Reinforcement Bars	EES1
37	Reinforcement Bars	EB2
38	Reinforcement Bars	EB3
39	Reinforcement Bars	EB4
40	Reinforcement Bars	EB5
41	Reinforcement Bars	EES1
42	Reinforcement Bars	EB2
43	Reinforcement Bars	EB3
44	Reinforcement Bars	EB4
45	Reinforcement Bars	EB5
46	Reinforcement Bars	EES1
47	Reinforcement Bars	EB2
48	Reinforcement Bars	EB3
49	Reinforcement Bars	EB4
50	Reinforcement Bars	EB5
51	Reinforcement Bars	EES1
52	Reinforcement Bars	EB2
53	Reinforcement Bars	EB3
54	Reinforcement Bars	EB4
55	Reinforcement Bars	EB5
56	Reinforcement Bars	EES1
57	Reinforcement Bars	EB2
58	Reinforcement Bars	EB3
59	Reinforcement Bars	EB4
60	Reinforcement Bars	EB5
61	Reinforcement Bars	EES1
62	Reinforcement Bars	EB2
63	Reinforcement Bars	EB3
64	Reinforcement Bars	EB4
65	Reinforcement Bars	EB5
66	Reinforcement Bars	EES1
67	Reinforcement Bars	EB2
68	Reinforcement Bars	EB3
69	Reinforcement Bars	EB4
70	Reinforcement Bars	EB5
71	Reinforcement Bars	EES1
72	Reinforcement Bars	EB2
73	Reinforcement Bars	EB3
74	Reinforcement Bars	EB4
75	Reinforcement Bars	EB5
76	Reinforcement Bars	EES1
77	Reinforcement Bars	EB2
78	Reinforcement Bars	EB3
79	Reinforcement Bars	EB4
80	Reinforcement Bars	EB5
81	Reinforcement Bars	EES1
82	Reinforcement Bars	EB2
83	Reinforcement Bars	EB3
84	Reinforcement Bars	EB4
85	Reinforcement Bars	EB5
86	Reinforcement Bars	EES1
87	Reinforcement Bars	EB2
88	Reinforcement Bars	EB3
89	Reinforcement Bars	EB4
90	Reinforcement Bars	EB5
91	Reinforcement Bars	EES1
92	Reinforcement Bars	EB2
93	Reinforcement Bars	EB3
94	Reinforcement Bars	EB4
95	Reinforcement Bars	EB5
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98	Reinforcement Bars	EB3
99	Reinforcement Bars	EB4
100	Reinforcement Bars	EB5

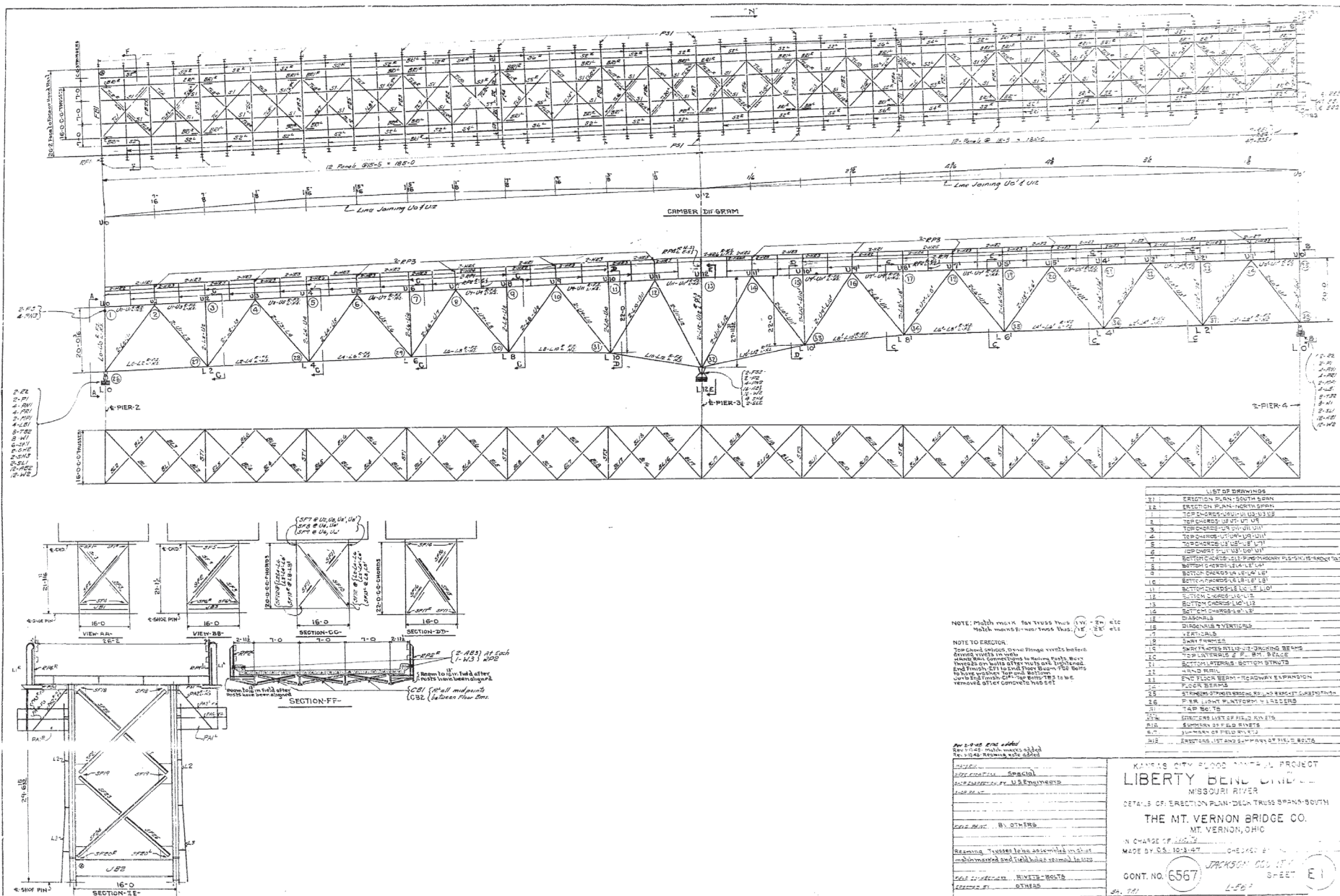
KANSAS CITY FLOOD CONTROL PROJECT
LIBERTY BEND BRIDGE
MISSOURI RIVER
DETAILS OF
THE MT. VERNON BRIDGE CO.
MT. VERNON, OHIO

IN CHARGE OF
MADE BY
CHECKED BY
APPROVED BY
DESIGNED BY
DRAWN BY

CONT NO 0550 SHEET 51

85

663



86

477

79-1

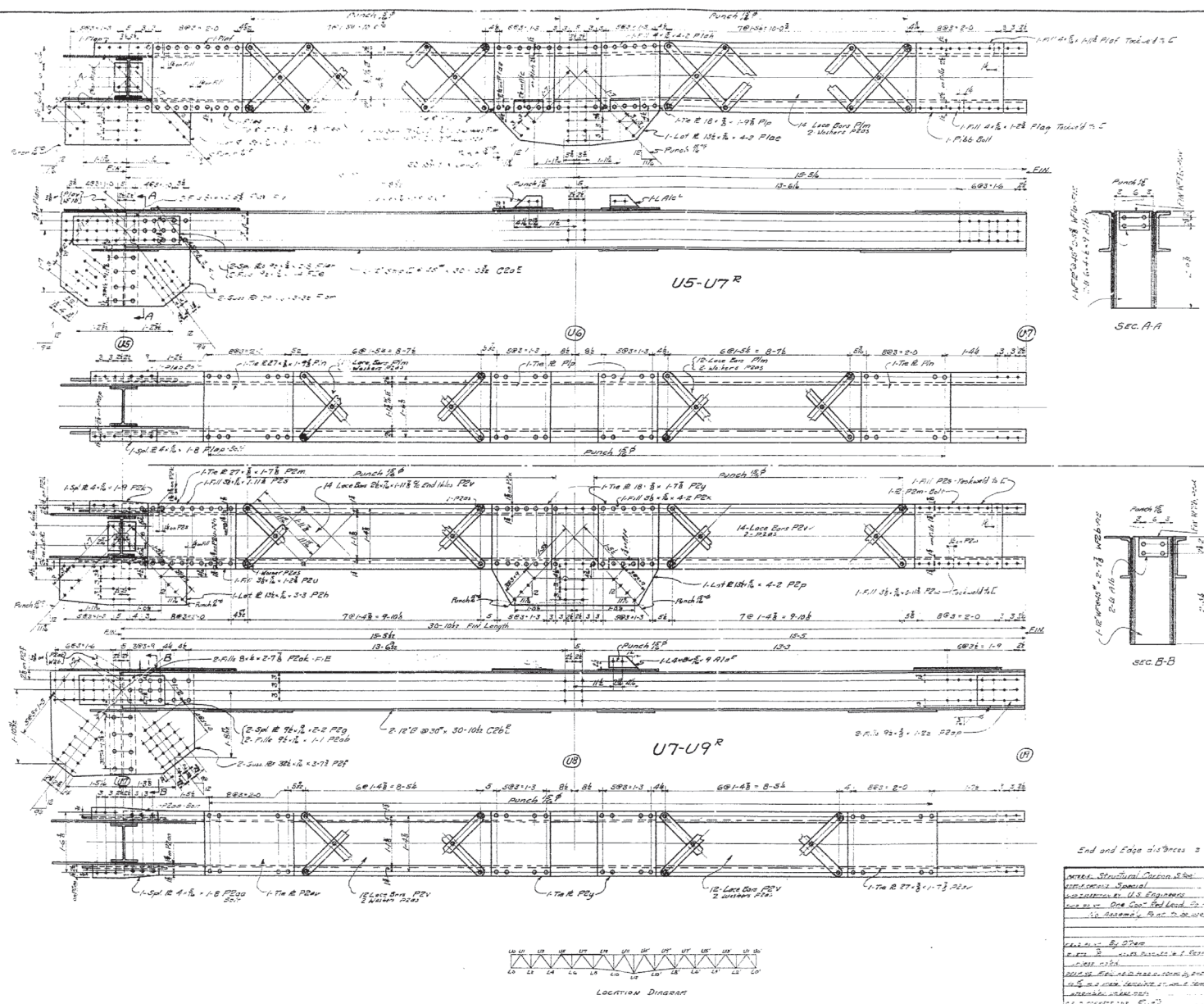


REV. 1-12-63 - PUNCH NOTE REV

100 ft. from center of bridge to center of approach roadway, measured at right angles to center of approach roadway.
 100 ft. from center of bridge to center of approach roadway, measured at right angles to center of approach roadway.

89

662



REQUIRED LIST

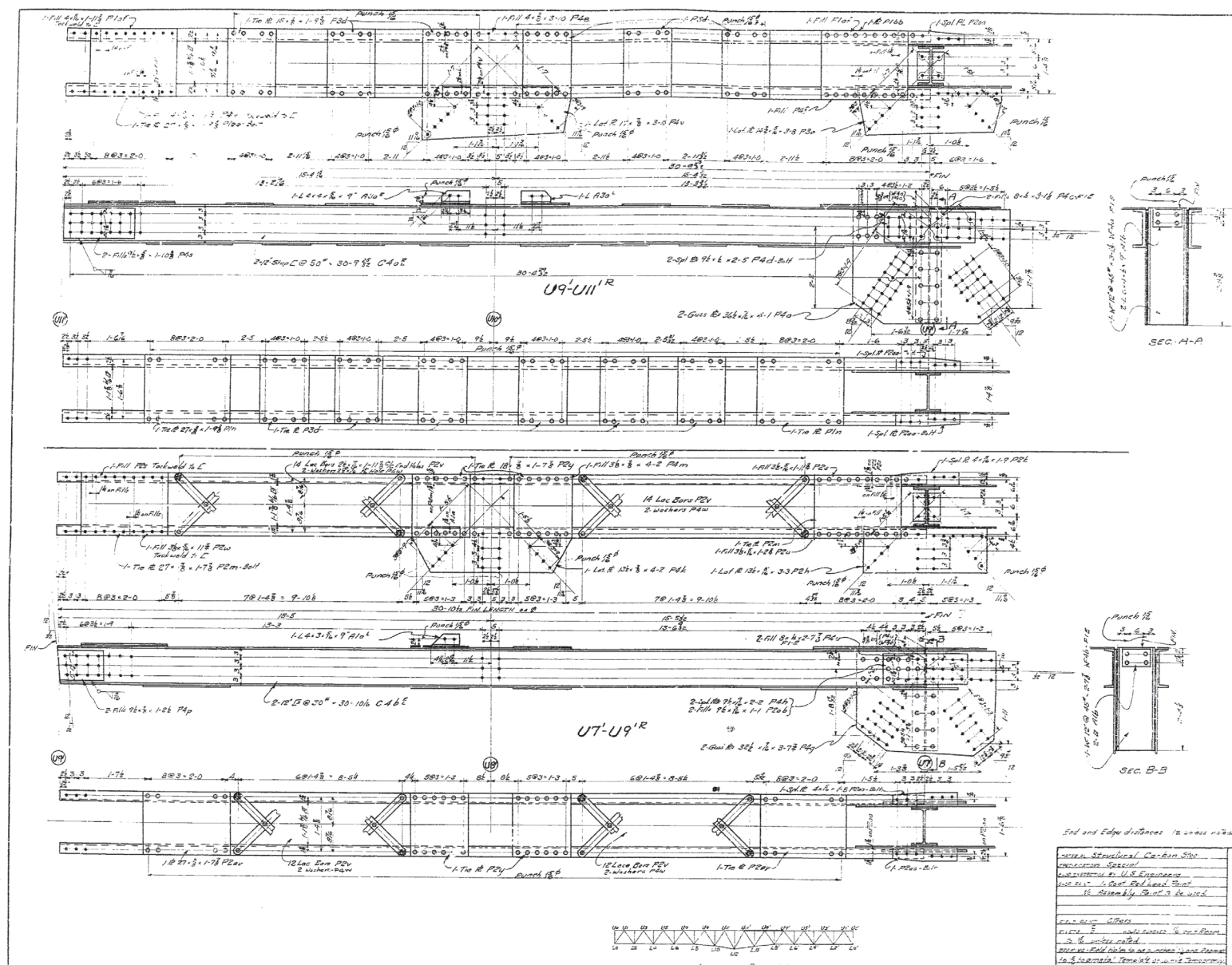
NO.	QTY.	DESCRIPTION	UNIT
1	1	TOP CHORD	10' 0"
2	2	PLATES FOR STIFFENING	10' 0"
3	1	TOP CHORD	10' 0"
4	2	PLATES FOR STIFFENING	10' 0"

End and Edge Distances 3'-0" to 4'-0"

KANSAS CITY FLOOD CONTROL PROJECT
LIBERTY BEND BRIDGE
 MISSOURI RIVER
 THE MT. VERNON BRIDGE CO.
 MT. VERNON, OHIO
 CONTRACT NO. 6507
 SHEET 2

KANSAS CITY FLOOD CONTROL PROJECT
LIBERTY BEND BRIDGE
MISSOURI RIVER
DETAILS OF: Two Chords Decked and 4' x 24"
THE MT. VERNON BRIDGE CO.
MT. VERNON, OHIO
IN CHARGE OF: *W.C.*
MADE BY: *J.P.* CHECKED BY: *W.C.*
DATE: *1-2-52*
JACKSON COUNTY
CONT. NO. (6567) SHEET 3
56-722 *L-552*

663



SEC. A-A

SEC. B-3

REQUIRED LIST			
QTY	DESCRIPTION	QTY	DESCRIPTION
1	TOP CHORD	1	UT-10
1		1	UT-11
2	PLATES 1/2" x 24" UT-10	2	PLATES
1		1	P200
1		1	P200
1	TOP CHORD	1	UT-10
1		1	UT-11
2	PLATES 1/2" x 24" UT-10	2	PLATES
1		1	P200

End and Edge distances: 12 unless noted

[illegible]

KANSAS CITY FLOOD CONTROL PROJECT
LIBERTY BEND BRIDGE
MISSOURI RIVER

THE MT. VERNON BRIDGE CO.
MT. VERNON, OHIO

IN CHARGE OF
MADE BY CHECKED BY

RECEIVED BY: [illegible] JACKSON COUNTY [illegible]
COUNT NO. 6567

CONT. NO. (6567) SHEET 4

2000

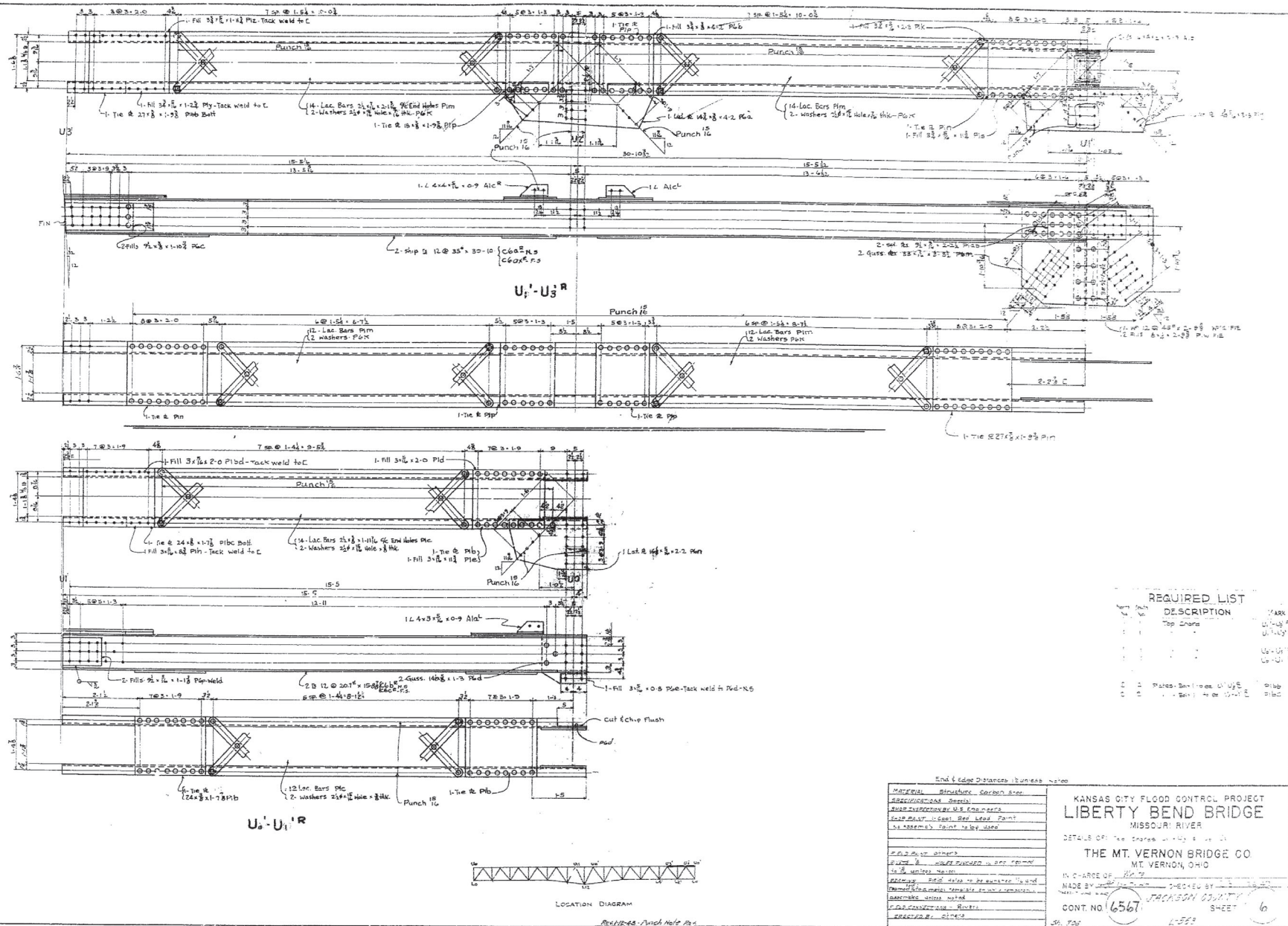
NOTE: Channels C4A-L made 12' @ 50' instead
of 12' @ 40' as shown on design drawings

Rev. 3-15-48 Weight of E5-C4a²
Rev. 1/15/48 Planning notes revised

LOCATION DIAGRAM

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REQUIRED LIST			
Part No	Qty	DESCRIPTION	MARK
1	1	Top Chassis	U1 - U10
2	1		U11 - U12
3	1		U13 - U14
4	1		U15 - U16
5	1		U17 - U18
6	1	Plates - Back Cover	U19 - U20
7	1	Plates - Front Cover	U21 - U22
8	1	Plates - Side Cover	U23 - U24
9	1	Plates - Bottom Cover	U25 - U26
10	1	Plates - Top Cover	U27 - U28
11	1	Plates - Middle Cover	U29 - U30
12	1	Plates - Rear Cover	U31 - U32
13	1	Plates - Left Cover	U33 - U34
14	1	Plates - Right Cover	U35 - U36
15	1	Plates - Front Panel	U37 - U38
16	1	Plates - Back Panel	U39 - U40
17	1	Plates - Side Panel	U41 - U42
18	1	Plates - Bottom Panel	U43 - U44
19	1	Plates - Top Panel	U45 - U46
20	1	Plates - Middle Panel	U47 - U48
21	1	Plates - Rear Panel	U49 - U50
22	1	Plates - Left Panel	U51 - U52
23	1	Plates - Right Panel	U53 - U54
24	1	Plates - Front Panel	U55 - U56
25	1	Plates - Back Panel	U57 - U58
26	1	Plates - Side Panel	U59 - U60
27	1	Plates - Bottom Panel	U61 - U62
28	1	Plates - Top Panel	U63 - U64
29	1	Plates - Middle Panel	U65 - U66
30	1	Plates - Rear Panel	U67 - U68
31	1	Plates - Left Panel	U69 - U70
32	1	Plates - Right Panel	U71 - U72
33	1	Plates - Front Panel	U73 - U74
34	1	Plates - Back Panel	U75 - U76
35	1	Plates - Side Panel	U77 - U78
36	1	Plates - Bottom Panel	U79 - U80
37	1	Plates - Top Panel	U81 - U82
38	1	Plates - Middle Panel	U83 - U84
39	1	Plates - Rear Panel	U85 - U86
40	1	Plates - Left Panel	U87 - U88
41	1	Plates - Right Panel	U89 - U90
42	1	Plates - Front Panel	U91 - U92
43	1	Plates - Back Panel	U93 - U94
44	1	Plates - Side Panel	U95 - U96
45	1	Plates - Bottom Panel	U97 - U98
46	1	Plates - Top Panel	U99 - U100

End & Edge Distances: unless noted

MATERIAL Structure Carbon steel
Specification AISI 1045
Size 1/2" x 2" x 10" U.S. Dimensions
Heat Treat 1045 and Heat Treat
1045 Specimen's Tensile Test Specimen

TESTING 1045 Specimen's Tensile Test Specimen

RESULTS 1045 Specimen's Tensile Test Specimen

CONCLUSIONS 1045 Specimen's Tensile Test Specimen

REMARKS 1045 Specimen's Tensile Test Specimen

KANSAS CITY FLOOD CONTROL PROJECT
LIBERTY BEND BRIDGE
MISSOURI RIVER

DETAILS OF: No charges were filed.

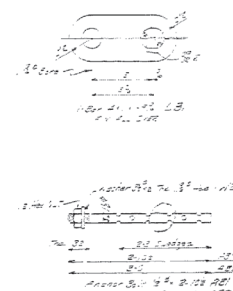
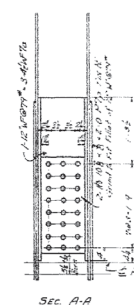
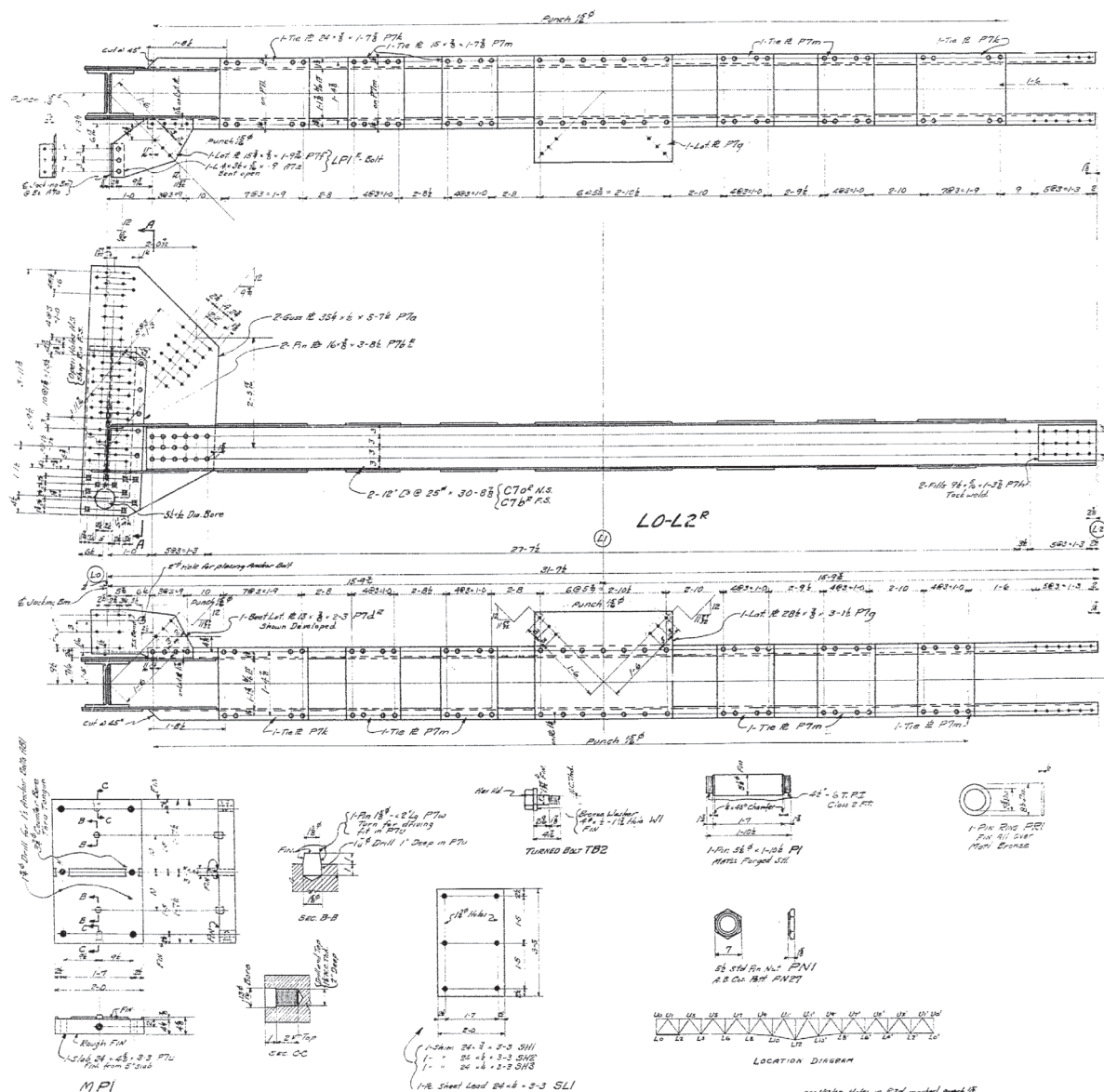
THE MT. VERNON BRIDGE CO.
MT. VERNON, OHIO

IN CHARGE OF W. J. [illegible]
MADE BY W. J. [illegible] [illegible] BY [illegible] [illegible]

CONT. NO. 6567 JACKSON COUNTY SHEET 6

54. 706 L-553

74

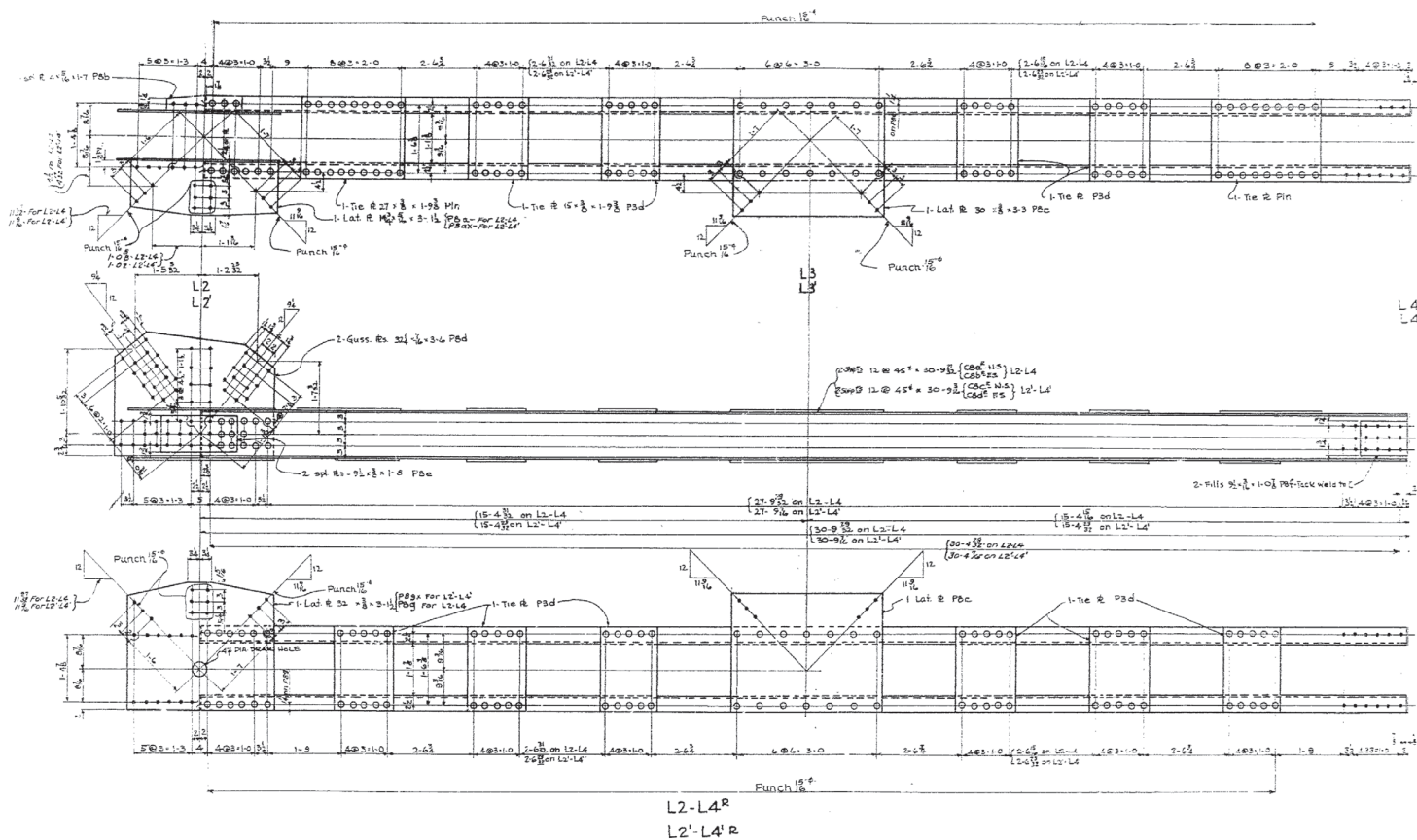


End and Edge distances 2 or less feet

REQUIRED LOT		REQUIRED LOT	
1	OFFICE BLDG	1	OFFICE BLDG
2	MAINTENANCE BLDG	2	MAINTENANCE BLDG
3	PAV	3	PAV
4	PAV	4	PAV
5	PAV	5	PAV
6	PAV	6	PAV
7	PAV	7	PAV
8	PAV	8	PAV
9	PAV	9	PAV
10	PAV	10	PAV
11	PAV	11	PAV
12	PAV	12	PAV
13	PAV	13	PAV
14	PAV	14	PAV
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16	PAV	16	PAV
17	PAV	17	PAV
18	PAV	18	PAV
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34	PAV	34	PAV
35	PAV	35	PAV
36	PAV	36	PAV
37	PAV	37	PAV
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93	PAV	93	PAV
94	PAV	94	PAV
95	PAV	95	PAV
96	PAV	96	PAV
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99	PAV	99	PAV
100	PAV	100	PAV

[illegible]

95



REQUIRED LIST		
MARK	DESCRIPTION	MARK
1.0	Bottom Cord	12-14R
1		12-14R
		12-14R
		12-14R
		12-14R

Find Page Numbers Unless Noted

MATERIAL: Structural Carbon Steel
 SPECIAL FINISH: Special
 MANUFACTURED BY US Engineers
 INCIDENT: 1. Coat Red lead Oxide
 No Assembly paint to be used

1. FIELD AGENTS
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KANSAS CITY FLOOD CONTROL PROJECT
LIBERTY BEND BRIDGE
MISSOURI RIVER

DETAILS 16 *By the same method we make a 2^2 factorial*

THE MT. VERNON BRIDGE CO.
MT. VERNON, OHIO

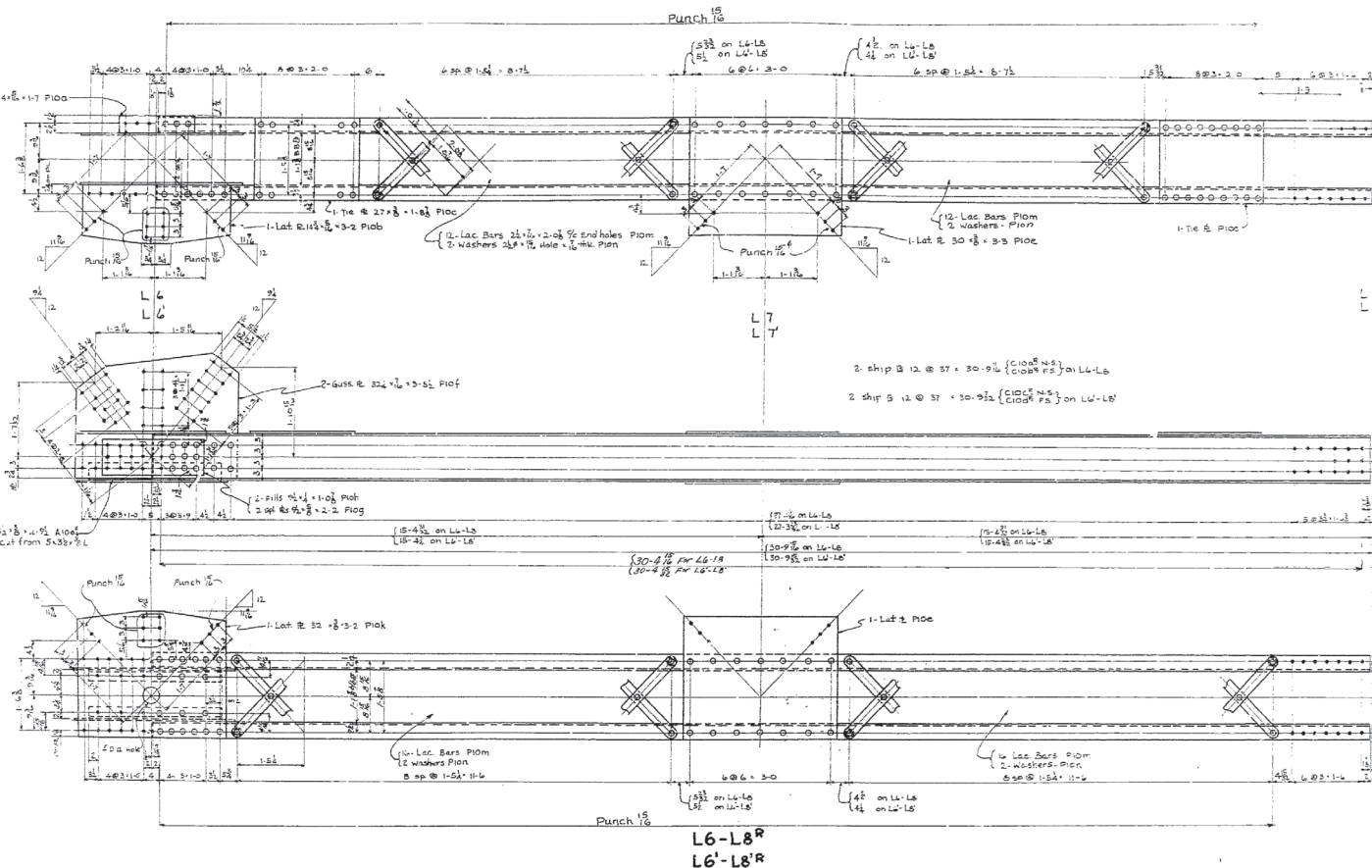
IN CHARGE OF DP-2

MADE BY 3-2-72 CHECKED BY 3-2-72

CONT. NO. 6567 SHEET

1-553

$$f = \frac{1}{2} \left(\frac{1}{\lambda} + \frac{1}{\lambda'} \right) = \frac{1}{2} \left(\frac{1}{\lambda} + \frac{1}{\lambda'} \right)$$



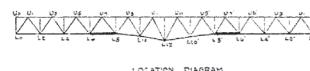
REQUIRED LIST

NO.	DESCRIPTION	MARY
1	Beam C-10	10-10
2	Beam C-11	10-10
3	Beam C-12	10-10

End Edge Distances 12 in. max. 1/2 in.

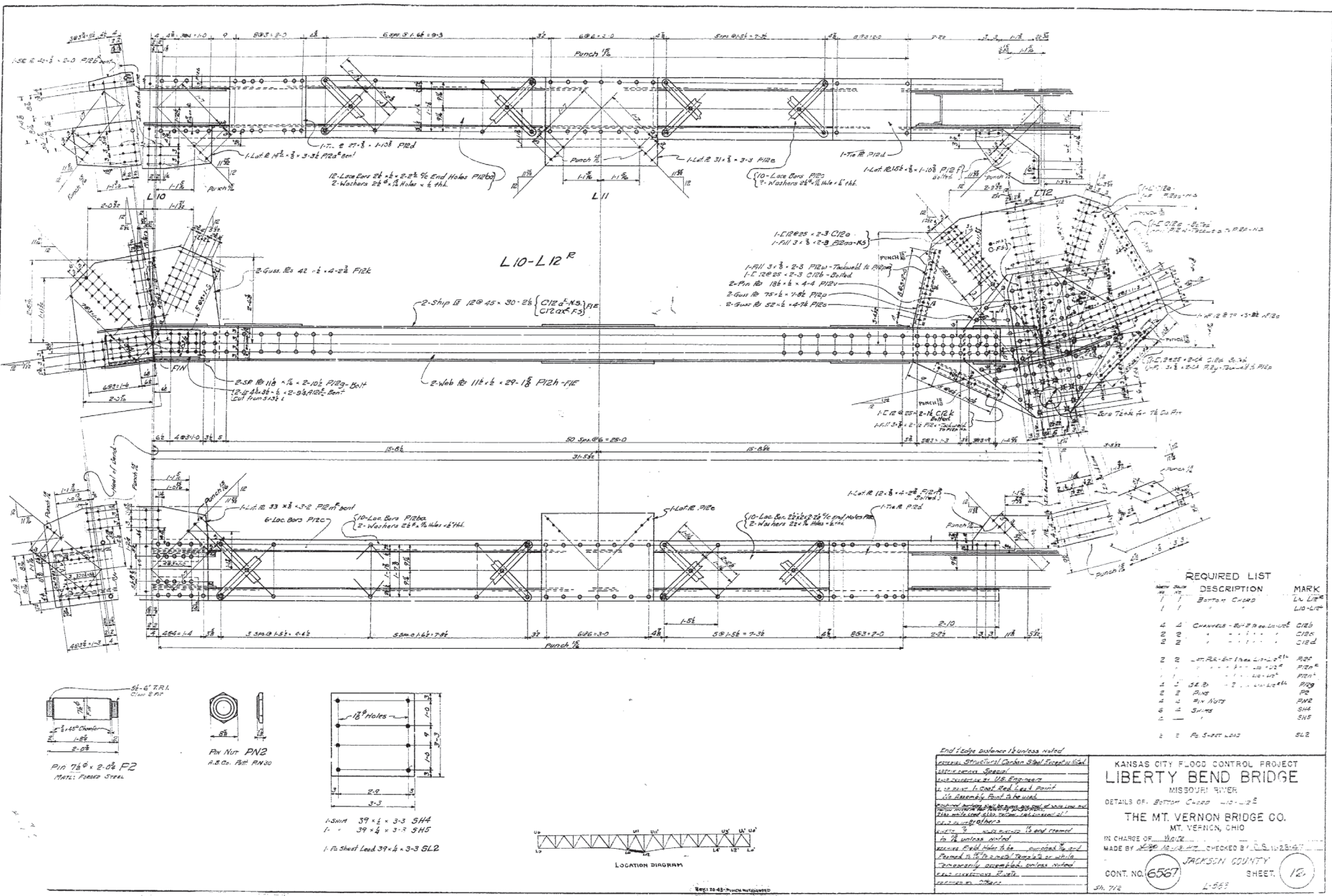
Notes:
 1. All dimensions are in feet and inches.
 2. All dimensions are to be maintained.
 3. All dimensions are to be maintained.
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 10. All dimensions are to be maintained.

KANSAS CITY FLOOD CONTROL PROJECT
 LIBERTY BEND BRIDGE
 MISSOURI RIVER
 DETAILS OF BRIDGE CONSTRUCTION
 THE MT. VERNON BRIDGE CO.
 MT. VERNON, OHIO
 IN CHARGE OF: [Signature]
 MADE BY: [Signature]
 CHECKED BY: [Signature]
 CONT. NO. 6567 SHEET 10

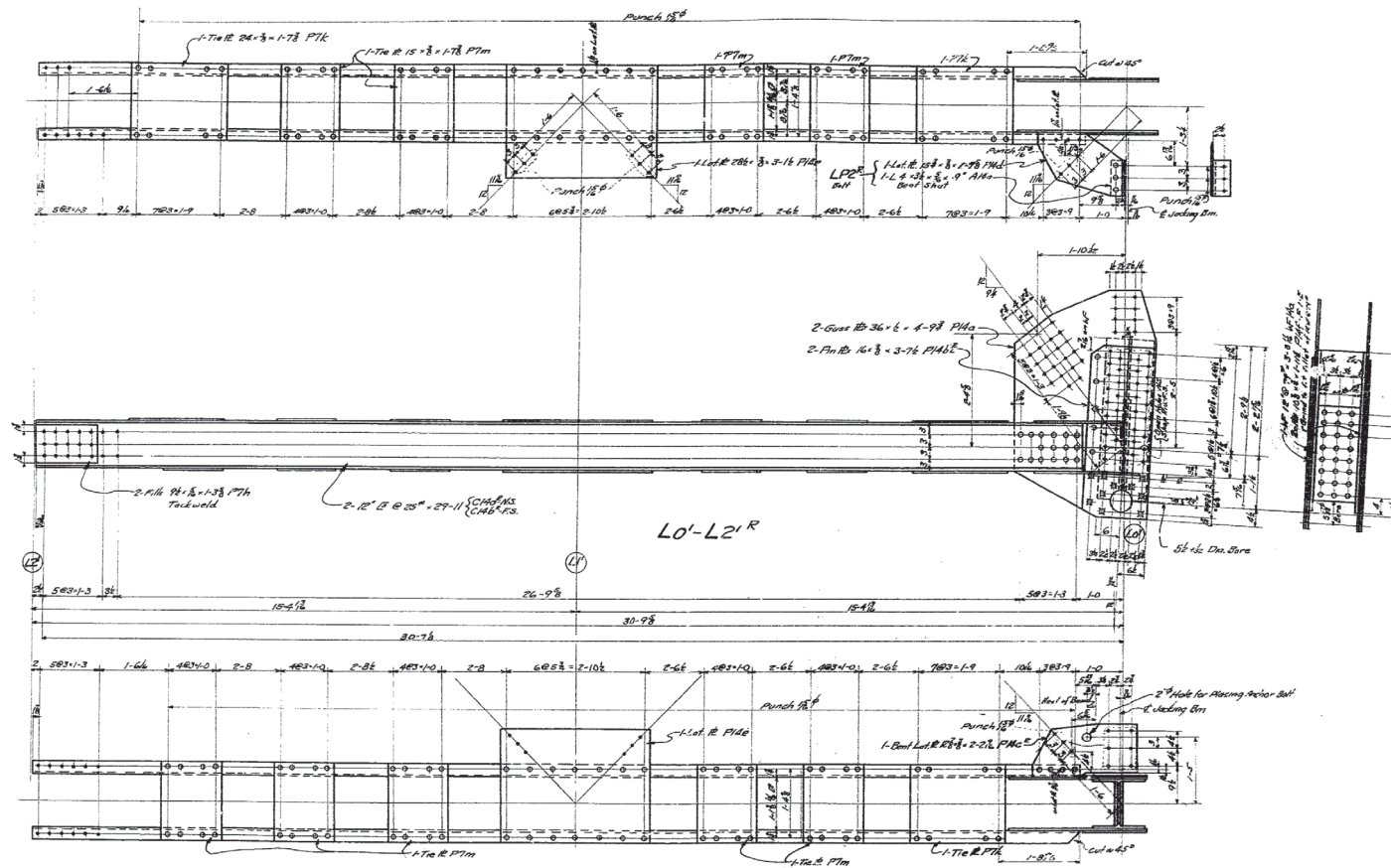


LOCATION DIAGRAM

442

[illegible]

10



LOCATION DIAGRAM

Ans. 1/10/1984 states in 2/1/85 numbered March 1985

REQUIRED LIST

NORTH NO	SOUTH NO	DESCRIPTION	MARK
1	1	BOTTOM CHORD	LO-LE ¹
1	1		LO-LE ²
1	1	LAT. P.S. B/L TO LO-LE ²	LP2
1	1	" " " LO-LE ⁴	LP2

End and edge distances = $1\frac{1}{2}$ " unless noted

new Structural Carbon Steel
welding Special
inspected by U.S. Engineers
examined in Coast Guard and Bitt
No Assembly Bitt to be used

call them "Others"
 page 8 under number 12 and covered in
 the "Others" noted
 meaning field notes to be numbered 12 and sent
 to the to a mental hospital or while temporary
 remained under control
 and sometimes "Others"
 covered by "Others"

KANSAS CITY FLOOD CONTROL PROJECT
LIBERTY BEND BRIDGE
MISSOURI RIVER

DETAILS OF: *BOTTOM CHORD 40' L3*

THE MT. VERNON BRIDGE CO.
MT. VERNON, OHIO

IN CHARGE OF Wate
MADE BY W CHECKED BY C.S. 11-20-4

Tread 3/8" x 10" x 47 JACKSON COUNTY

CONT. NO. 6567 SHEET 14

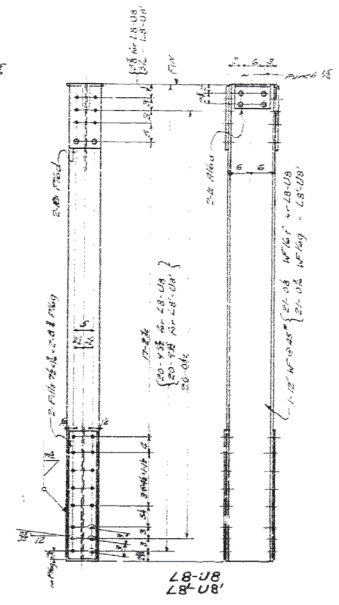
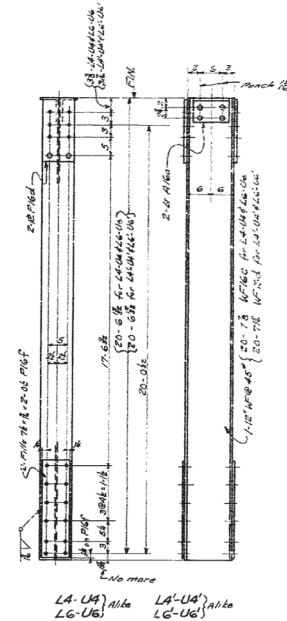
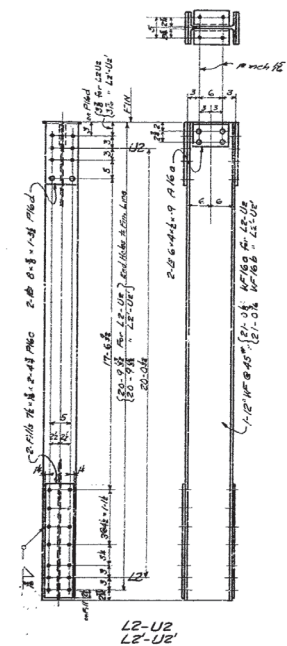
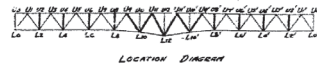
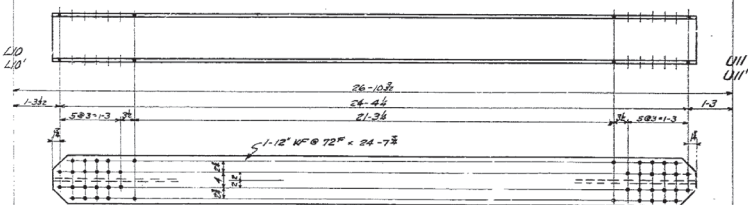
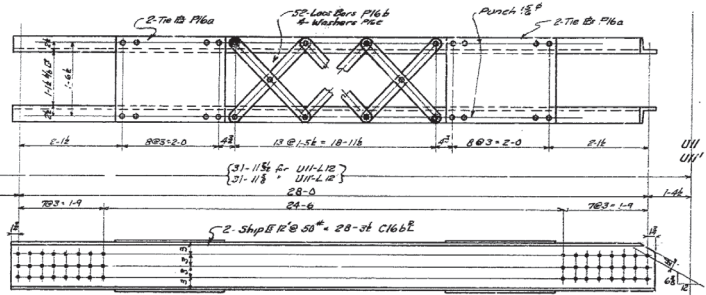
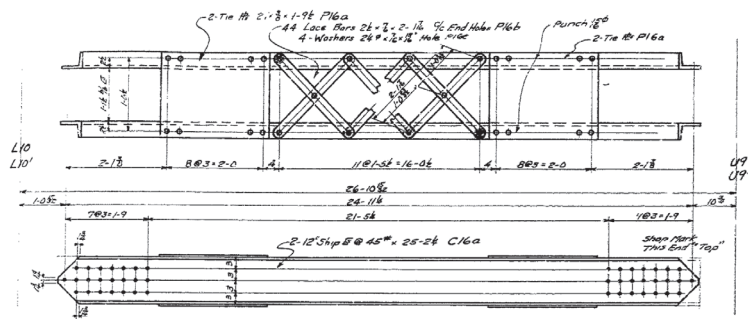
CONFIDENTIAL

 $\chi^2_{0.05, 7} = 15.01$

663

70.

103
 663



End and edge distances 12" unless noted

1. Structural Carbon Steel
 2. Reinforcing Steel
 3. Cast-in-place concrete
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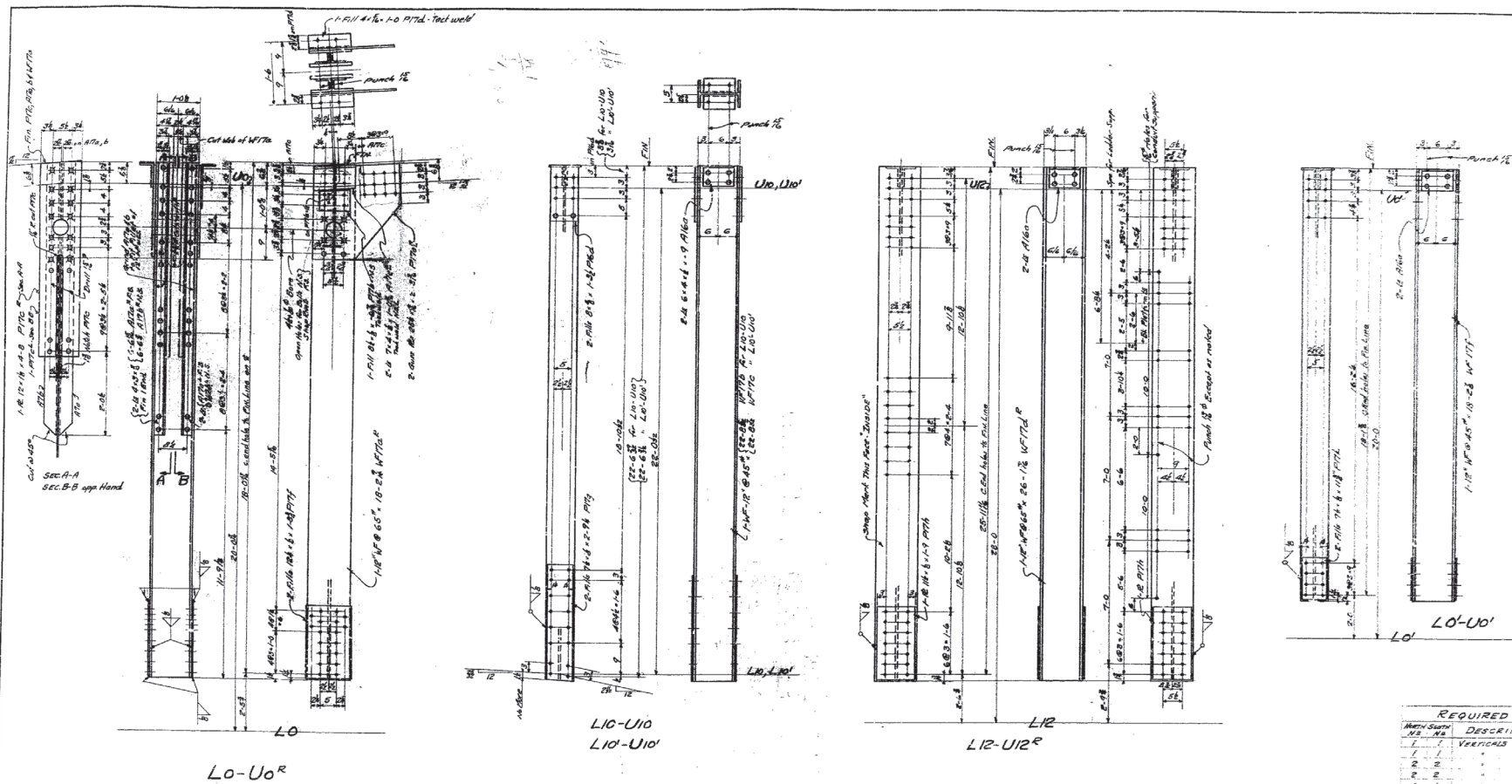
REQUIRED LIST			
NO.	DESCRIPTION	MARK	
1	DIAGONALS	U9-U11	
2		U9-L10	
3		U11-L12	
4		U11-U11'	
5		U11-L12	
6		U11-U11'	
7		U11-L12	
8		U11-U11'	
9		U11-L12	
10		U11-U11'	
11		U11-L12	
12		U11-U11'	
13		U11-L12	
14		U11-U11'	
15		U11-L12	
16		U11-U11'	
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18		U11-U11'	
19		U11-L12	
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96		U11-U11'	
97		U11-L12	
98		U11-U11'	
99		U11-L12	
100		U11-U11'	

KANSAS CITY FLOOD CONTROL PROJECT
 LIBERTY BEND BRIDGE
 MISSOURI RIVER
 DETAILS OF DIAGONALS & VERTICALS
 THE MT. VERNON BRIDGE CO.
 MT. VERNON, OHIO
 IN CHARGE OF: DATE: 12-1-42
 MADE BY: DATE: 12-1-42
 CHECKED BY: C.S. 11-12-42
 JACKSON COUNTY
 CONT. NO. 6567 SHEET 16
 L-568

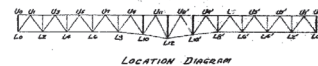
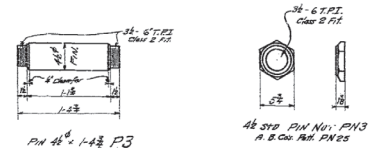
104

104

663



REQUIRED LIST		
ITEM NO.	DESCRIPTION	QTY
1	VERTICALS	10-UG
2	"	10-UG
3	"	10-UG
4	"	10-UG
5	"	10-UG
6	"	10-UG
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8	"	10-UG
9	"	10-UG
10	"	10-UG
11	"	10-UG
12	"	10-UG
13	"	10-UG
14	"	10-UG
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18	"	10-UG
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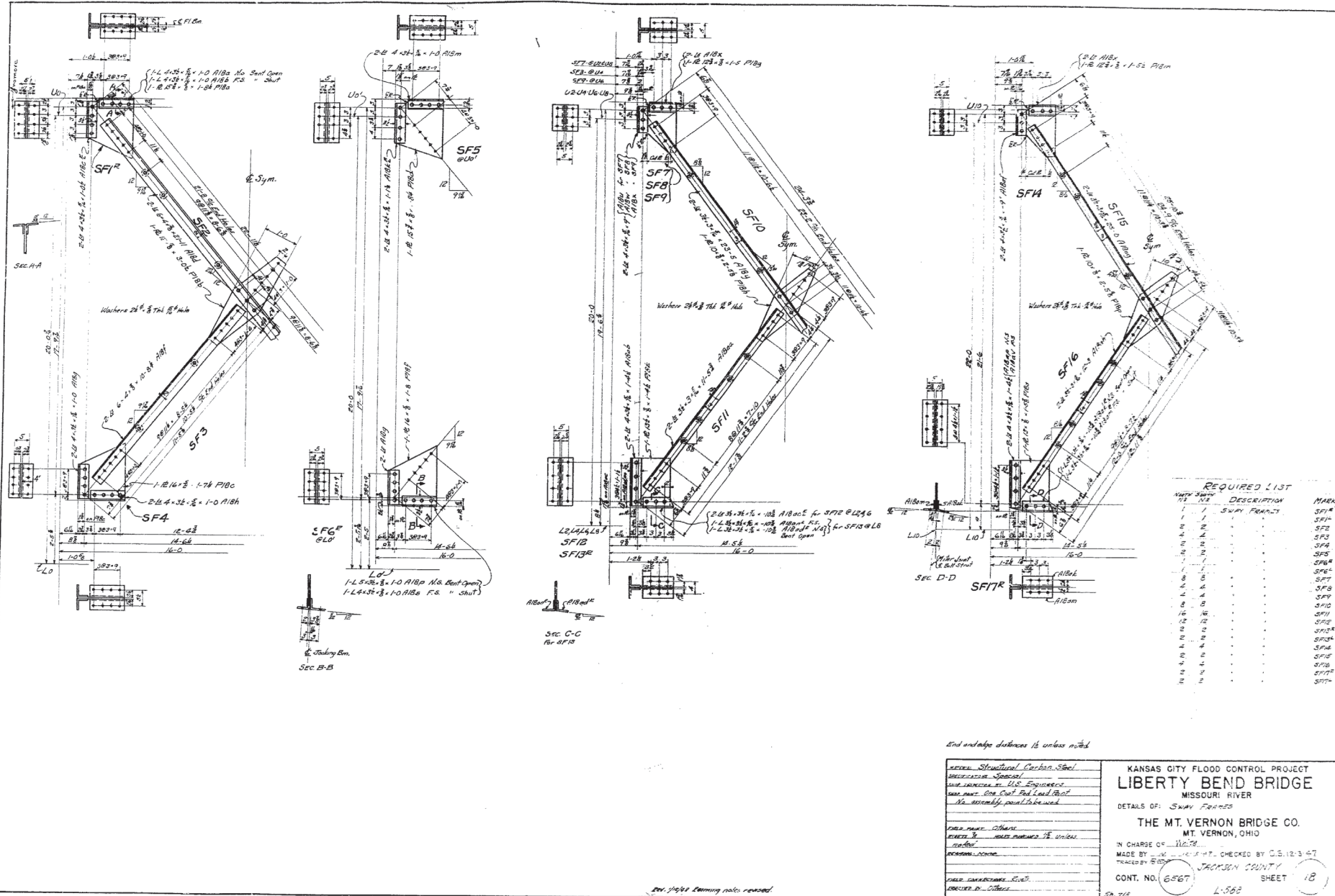


End and edge distances 16" unless noted.

MATERIALS Structural Carbon Steel	KANSAS CITY FLOOD CONTROL PROJECT
DESIGNATION Standard	LIBERTY BEND BRIDGE
DESIGNED BY U.S. Engineers	MISSOURI RIVER
CONSTRUCTED BY The Mt. Vernon Bridge Co.	
LOCATION Liberty Bend, Missouri	
DATE 1934	
BY J. H. ...	
CHECKED BY J. H. ...	
APPROVED BY J. H. ...	
CONTRACT NO. 6567	JACKSON COUNTY
SHEET 17	

105

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End and edge distances 1/2 unless noted

NUCLEAR Structural Carbon Steel
 Designation: Special
 SUP. INSTRUCTOR U.S. Engineers
 SUP. PART One Coat Red Lead Prim
 No assembly paint to be used
 FIELD PART CHAIRS
 ERECTED BY MOBILE MARINES 18 Units
 TO 404
 REASONS: NONE
 FIELD CONNECTIONS E.C.T.
 ERECTED BY 10000

KANSAS CITY FLOOD CONTROL PROJECT
LIBERTY BEND BRIDGE
MISSOURI RIVER

DETAILS OF: *SWAY FRAMES*

THE MT. VERNON BRIDGE CO.
MT. VERNON, OHIO

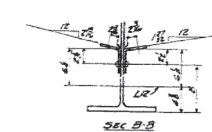
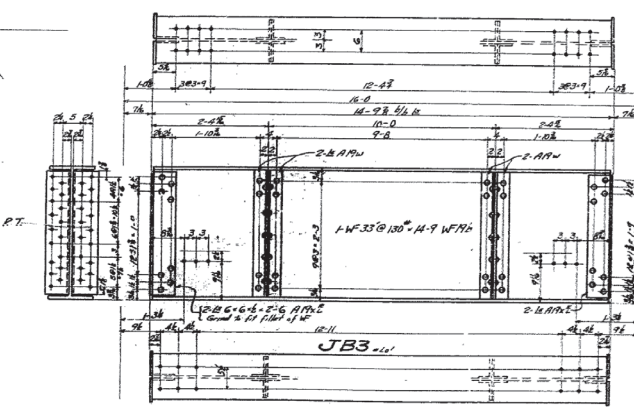
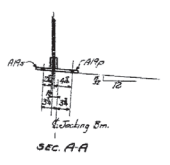
IN CHARGE OF W. J. H. H. H.
MADE BY W. J. H. H. H. CHECKED BY C. S. 12-3-47

TRACED BY 5102 JACKSON COUNTY
CONT. NO. 6567 SHEET 18

CONT. NO. 6567 SHEET 18

59. 7/5

106

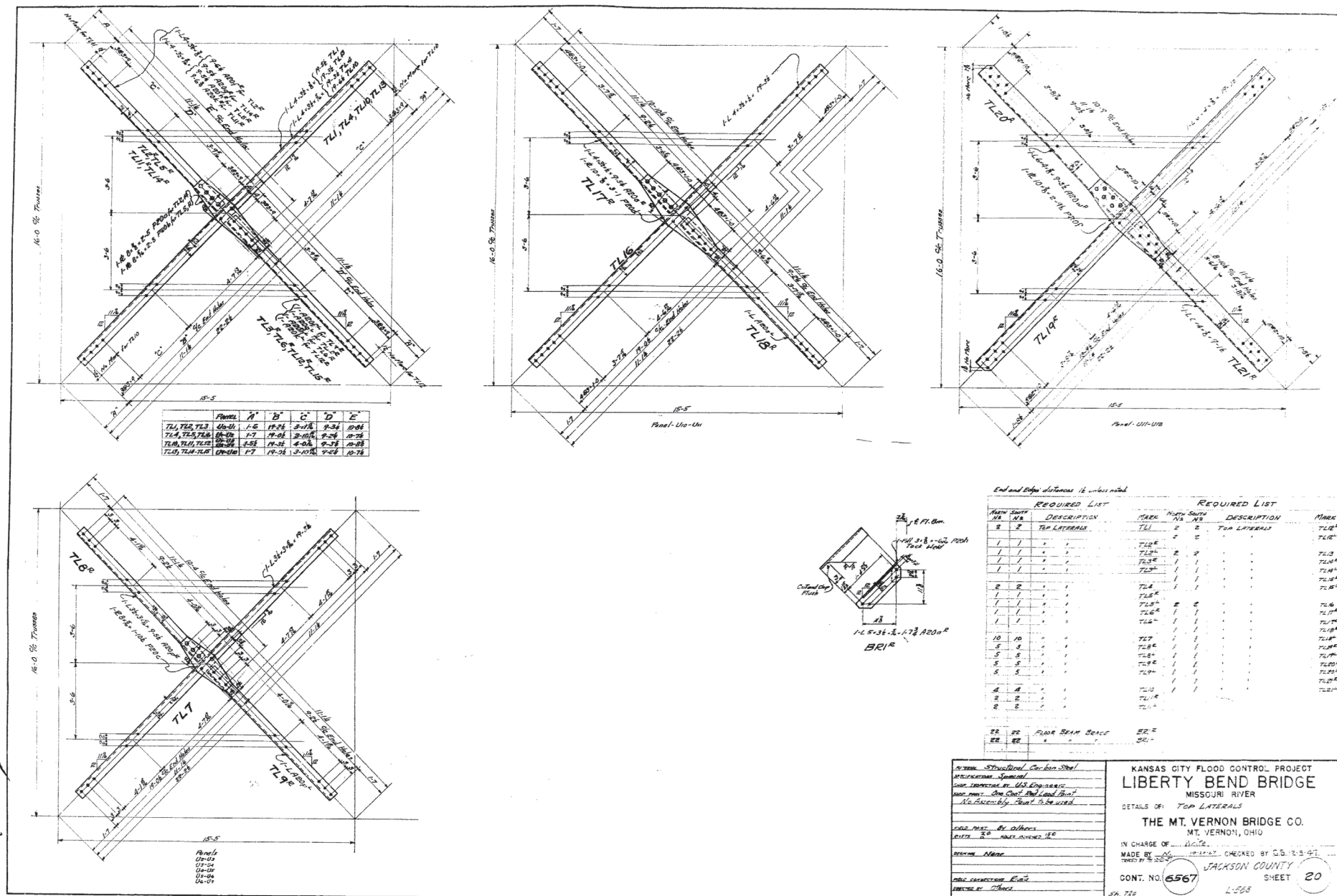


End and edge distances = 1/2" unless noted.

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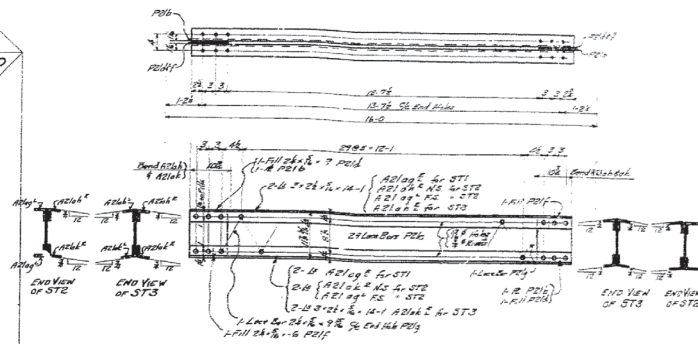
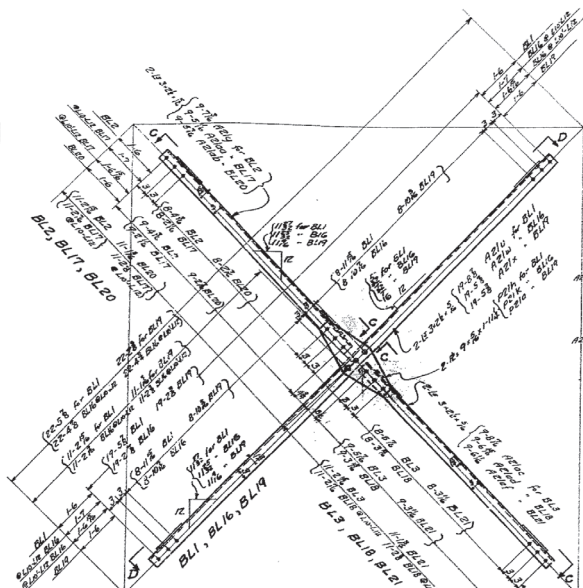
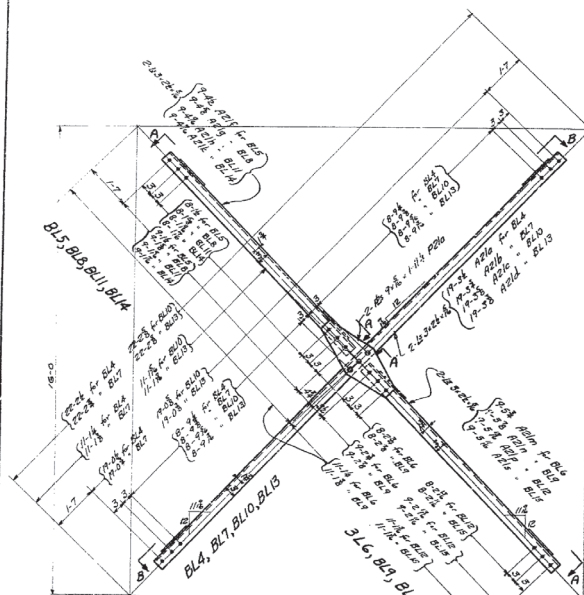
KANSAS CITY FLOOD CONTROL PROJECT
LIBERTY BEND BRIDGE
MISSOURI RIVER
DETAILS OF: *Swing Span & 21' x 8' Locking Beams*
THE MT. VERNON BRIDGE CO.
MT. VERNON, OHIO
IN CHARGE OF: *W. F. F.*
MADE BY: *W. F. F.* CHECKED BY: *W. F. F.*
THICK BY: *W. F. F.*
JACKSON COUNTY
CONT. NO. *6567* SHEET *19*
24-719 *1-568*

10

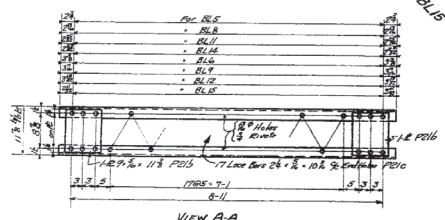


As shown, light
shaded, light-medium
shaded, shaded

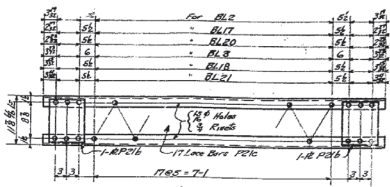
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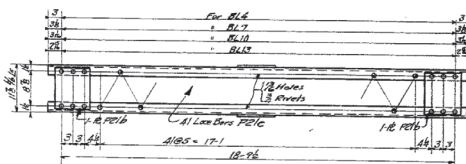
ST1, ST2, ST3



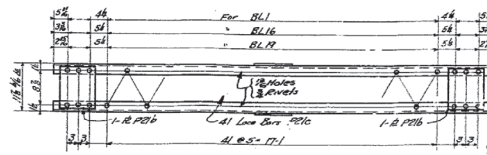
VIEW A-A



VIEW C-C



VIEW B-B

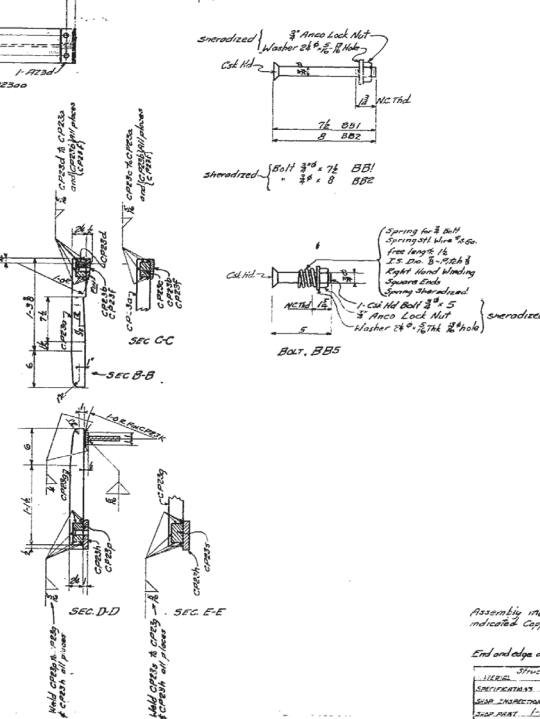
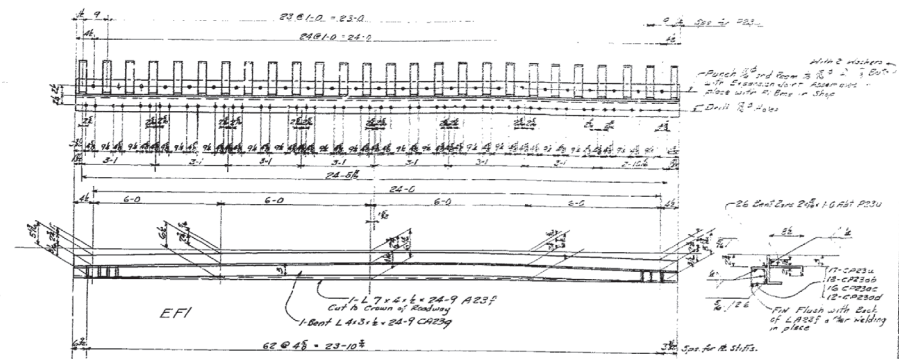


VIEW D-D

REQUIRED LIST		
MARK	DESCRIPTION	MARK
2	BOTTOM LATERALS	BL1
2	"	BL2
2	"	BL3
2	"	BL4
2	"	BL5
2	"	BL6
2	"	BL7
2	"	BL8
2	"	BL9
2	"	BL10
2	"	BL11
2	"	BL12
2	"	BL13
2	"	BL14
2	"	BL15
2	"	BL16
2	"	BL17
2	"	BL18
2	"	BL19
2	"	BL20
2	"	BL21
2	"	BL22
2	"	BL23
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2	"	BL91
2	"	BL92
2	"	BL93
2	"	BL94
2	"	BL95
2	"	BL96
2	"	BL97
2	"	BL98
2	"	BL99
2	"	BL100

End and edge distances 18" unless noted.

KANSAS CITY FLOOD CONTROL PROJECT
 LIBERTY BEND BRIDGE
 MISSOURI RIVER
 DETAILS OF: Bottom Laterals & Bottom Struts
 THE MT. VERNON BRIDGE CO.
 MT. VERNON, OHIO
 IN CHARGE OF: J.C. 12/1/47
 MADE BY: J.C. 12/1/47
 CHECKED BY: C.S. 12/1/47
 CONT. NO. 6567 JACKSON COUNTY SHEET 21
 DATE: 12/1/47



METH. SOUTH		REQUIRED LIST		METH. NORTH	
1/3	1/2	DESCRIPTION		1/3	1/2
1	1	FOUR SEAM			FOUR
7	7	ROADWAY EXPANSION			REI
1	1	"			RED
3	3	"			RED
1	1	END FINISH			EFI
42	42	CON. HO. BLDGS			CON
6	6	" " " "			BLD
47	47	" " " "			BLD

Assembly marks preceded by the letter C
indicated Copper bearing Steel

End and edge distances 1/2 unless noted.

Structural Carbon Steel C
SPECIFICATIONS Special
SHIP INSPECTION BY U.S. Engineers
SHIP PORT 1-Coat Red Lead/Paint - Exposed
No Assembly Point to be used

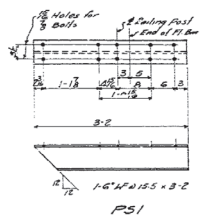
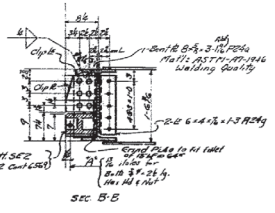
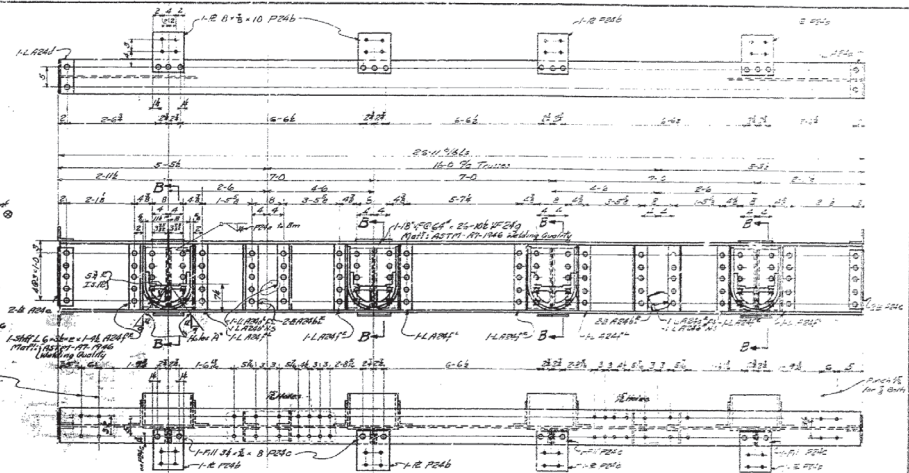
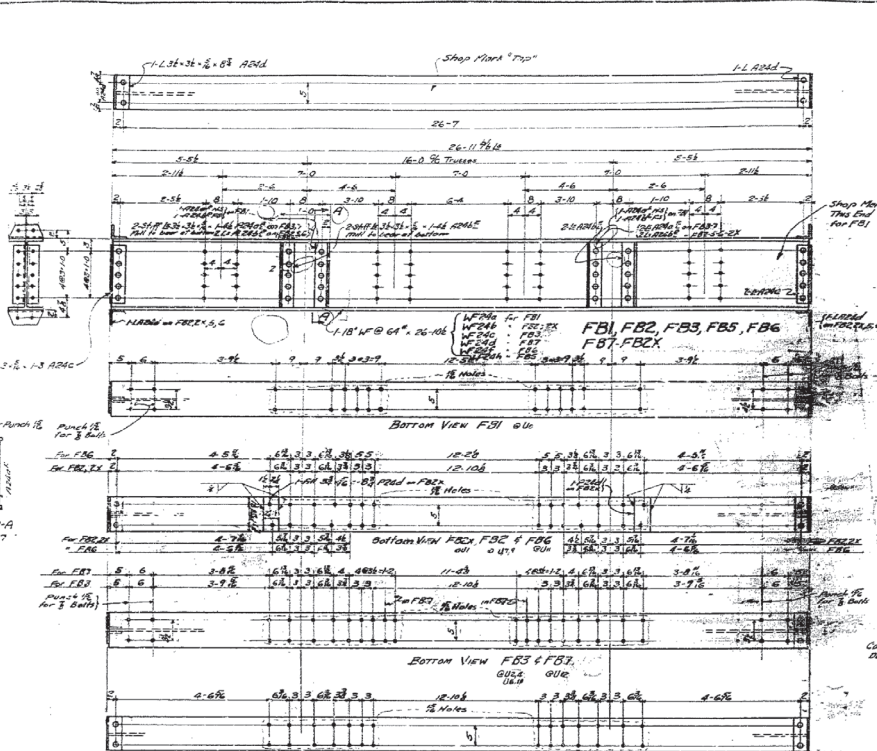
LEAD MUST BY OTHERS
E.G. TO ³ UNKNO
REMEMBERED PERSONS IS ¹⁸ ~~CLERKS~~ ~~NOTED~~
DEPT. AS NOTED
OLD SCENEWORK PUNTS & BATH
CREATED BY OTHER

KANSAS CITY FLOOD CONTROL PROJECT
LIBERTY GLEN BRIDGE
MISSOURI RIVER
DETAILS OF: END FLOOR BEAM & ROADWAY ENR.
THE MT. VERNON BRIDGE CO.
MT. VERNON, OHIO

IN CHARGE OF W. J. ...
MADE BY W. J. ... CHECKED BY O. S. 12-11-47
Transcribed by W. J. ...
CONT. NO. 6567 JACKSON COUNTY SHEET 23

54.723 L-566

SHEET 23



(Furnished by Shupp Bros.)

REQUIRED LIST

QTY.	SIZE	DESCRIPTION	MADE
1	1/2\"	FLR BEAM	FB1
4	1/2\"	FLR BEAM	FB2
4	1/2\"	FLR BEAM	FB3
4	1/2\"	FLR BEAM	FB5
4	1/2\"	FLR BEAM	FB6
4	1/2\"	FLR BEAM	FB7
4	1/2\"	FLR BEAM	FB8
4	1/2\"	FLR BEAM	FB9
4	1/2\"	FLR BEAM	FB10
4	1/2\"	FLR BEAM	FB11
4	1/2\"	FLR BEAM	FB12
4	1/2\"	FLR BEAM	FB13
4	1/2\"	FLR BEAM	FB14
4	1/2\"	FLR BEAM	FB15
4	1/2\"	FLR BEAM	FB16
4	1/2\"	FLR BEAM	FB17
4	1/2\"	FLR BEAM	FB18
4	1/2\"	FLR BEAM	FB19
4	1/2\"	FLR BEAM	FB20
4	1/2\"	FLR BEAM	FB21
4	1/2\"	FLR BEAM	FB22
4	1/2\"	FLR BEAM	FB23
4	1/2\"	FLR BEAM	FB24
4	1/2\"	FLR BEAM	FB25
4	1/2\"	FLR BEAM	FB26
4	1/2\"	FLR BEAM	FB27
4	1/2\"	FLR BEAM	FB28
4	1/2\"	FLR BEAM	FB29
4	1/2\"	FLR BEAM	FB30
4	1/2\"	FLR BEAM	FB31
4	1/2\"	FLR BEAM	FB32
4	1/2\"	FLR BEAM	FB33
4	1/2\"	FLR BEAM	FB34
4	1/2\"	FLR BEAM	FB35
4	1/2\"	FLR BEAM	FB36
4	1/2\"	FLR BEAM	FB37
4	1/2\"	FLR BEAM	FB38
4	1/2\"	FLR BEAM	FB39
4	1/2\"	FLR BEAM	FB40
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4	1/2\"	FLR BEAM	FB97
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4	1/2\"	FLR BEAM	FB99
4	1/2\"	FLR BEAM	FB100

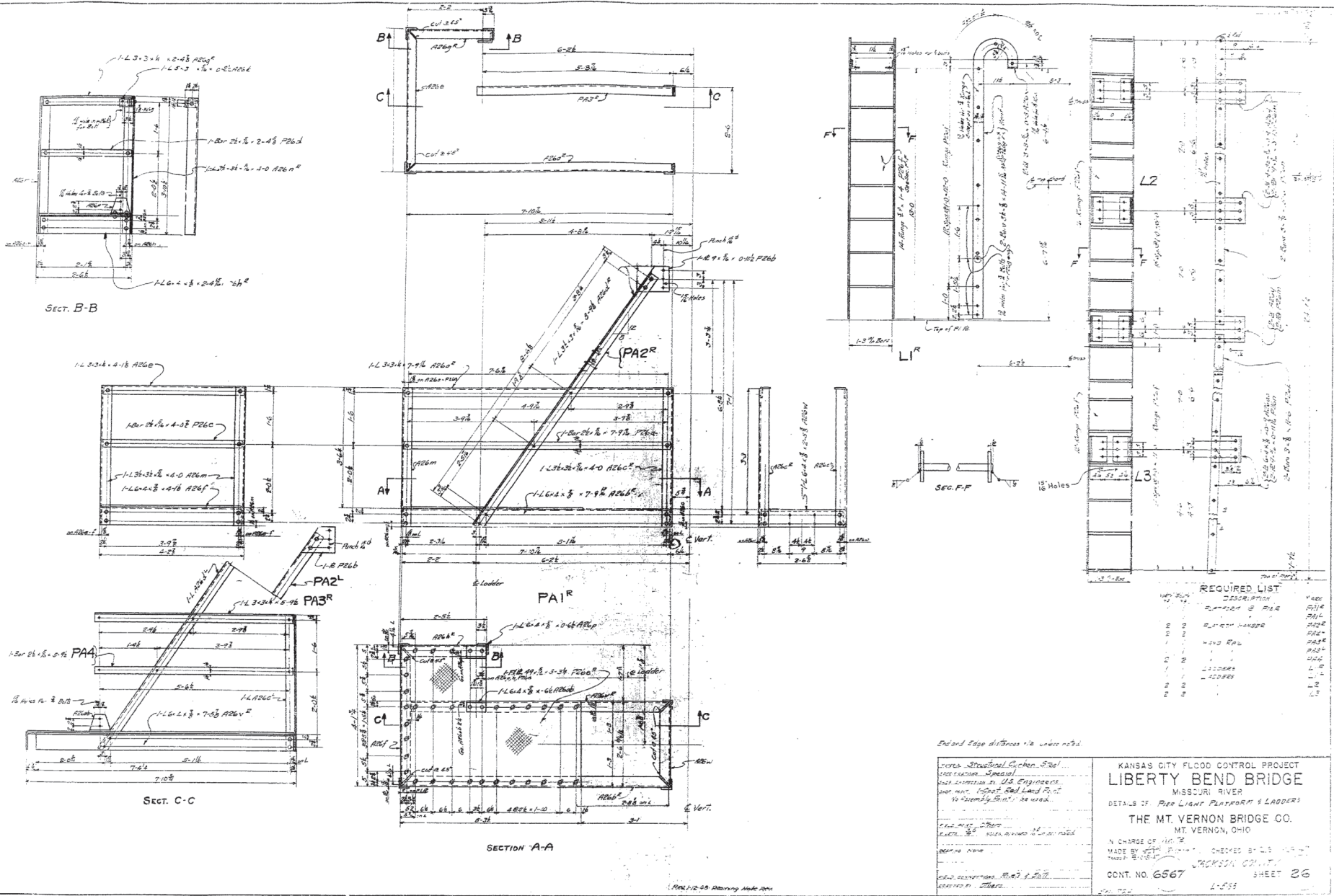
End & edge distances as unless noted

REVISION	DATE	BY	DESCRIPTION
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3	10/1/58	J. H. HARRIS	REVISION
4	10/1/58	J. H. HARRIS	REVISION
5	10/1/58	J. H. HARRIS	REVISION
6	10/1/58	J. H. HARRIS	REVISION
7	10/1/58	J. H. HARRIS	REVISION
8	10/1/58	J. H. HARRIS	REVISION
9	10/1/58	J. H. HARRIS	REVISION
10	10/1/58	J. H. HARRIS	REVISION
11	10/1/58	J. H. HARRIS	REVISION
12	10/1/58	J. H. HARRIS	REVISION
13	10/1/58	J. H. HARRIS	REVISION
14	10/1/58	J. H. HARRIS	REVISION
15	10/1/58	J. H. HARRIS	REVISION
16	10/1/58	J. H. HARRIS	REVISION
17	10/1/58	J. H. HARRIS	REVISION
18	10/1/58	J. H. HARRIS	REVISION
19	10/1/58	J. H. HARRIS	REVISION
20	10/1/58	J. H. HARRIS	REVISION
21	10/1/58	J. H. HARRIS	REVISION
22	10/1/58	J. H. HARRIS	REVISION
23	10/1/58	J. H. HARRIS	REVISION
24	10/1/58	J. H. HARRIS	REVISION
25	10/1/58	J. H. HARRIS	REVISION
26	10/1/58	J. H. HARRIS	REVISION
27	10/1/58	J. H. HARRIS	REVISION
28	10/1/58	J. H. HARRIS	REVISION
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32	10/1/58	J. H. HARRIS	REVISION
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35	10/1/58	J. H. HARRIS	REVISION
36	10/1/58	J. H. HARRIS	REVISION
37	10/1/58	J. H. HARRIS	REVISION
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39	10/1/58	J. H. HARRIS	REVISION
40	10/1/58	J. H. HARRIS	REVISION
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45	10/1/58	J. H. HARRIS	REVISION
46	10/1/58	J. H. HARRIS	REVISION
47	10/1/58	J. H. HARRIS	REVISION
48	10/1/58	J. H. HARRIS	REVISION
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98	10/1/58	J. H. HARRIS	REVISION
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100	10/1/58	J. H. HARRIS	REVISION

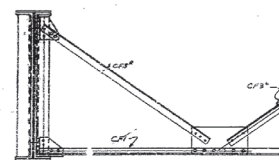
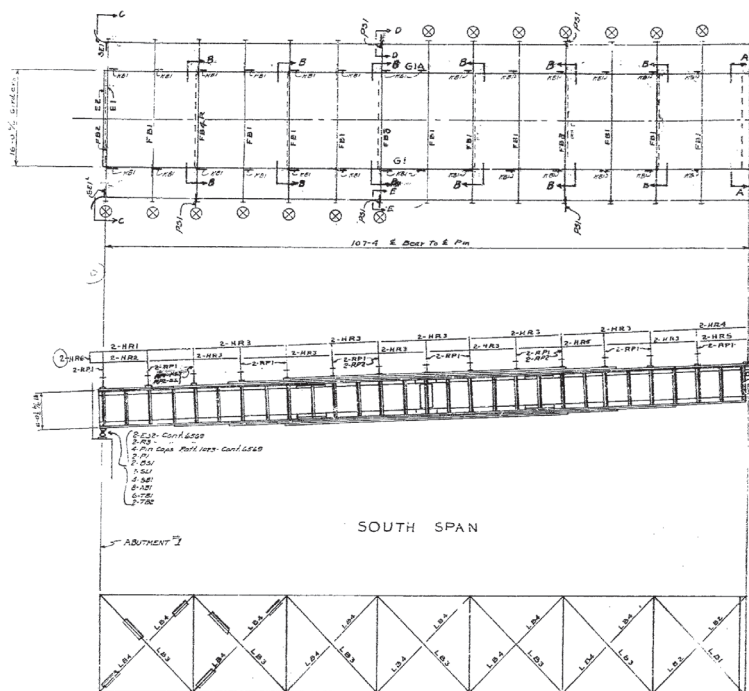
KANSAS CITY FLOOD CONTROL PROJECT
LIBERTY BEND BRIDGE
 MISSOURI RIVER
 DETAILS OF FLOOR BEAMS
 THE MT. VERNON BRIDGE CO.
 MT. VERNON, OH.
 IN CHARGE OF: J. H. HARRIS
 MADE BY: J. H. HARRIS
 CHECKED BY: J. H. HARRIS
 CONT. NO. 6587
 SHEET 24

11/3

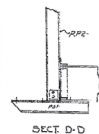
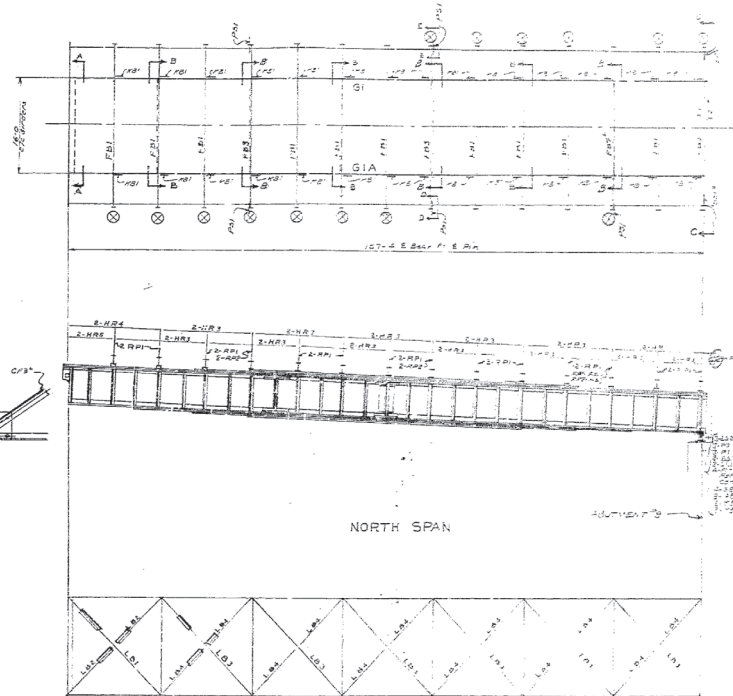
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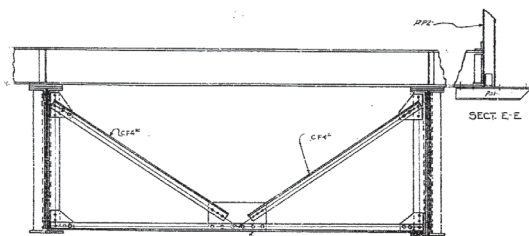
KANSAS CITY FLOOD CONTROL PROJECT
LIBERTY BEND BRIDGE
MISSOURI RIVER
DETAILS OF RISE LIGHT PLATFORM & LADDERS
THE MT. VERNON BRIDGE CO.
MT. VERNON, OHIO
IN CHARGE OF: [Signature]
MADE BY: [Signature]
CHECKED BY: [Signature]
CONT. NO. 6567 SHEET 26



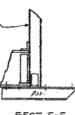
SECT. A-A



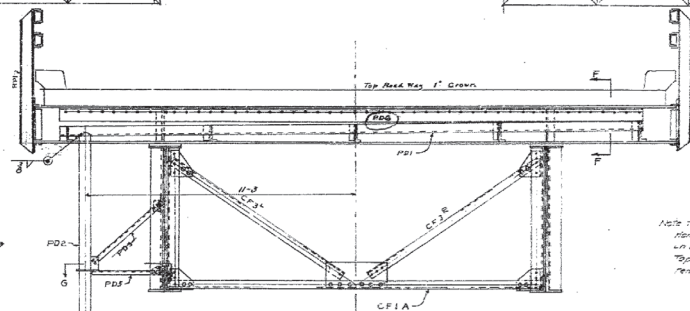
SECT. D-D



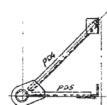
SECT. B-B



BEC7 5-5



SECT. C-C



SECT. G-G



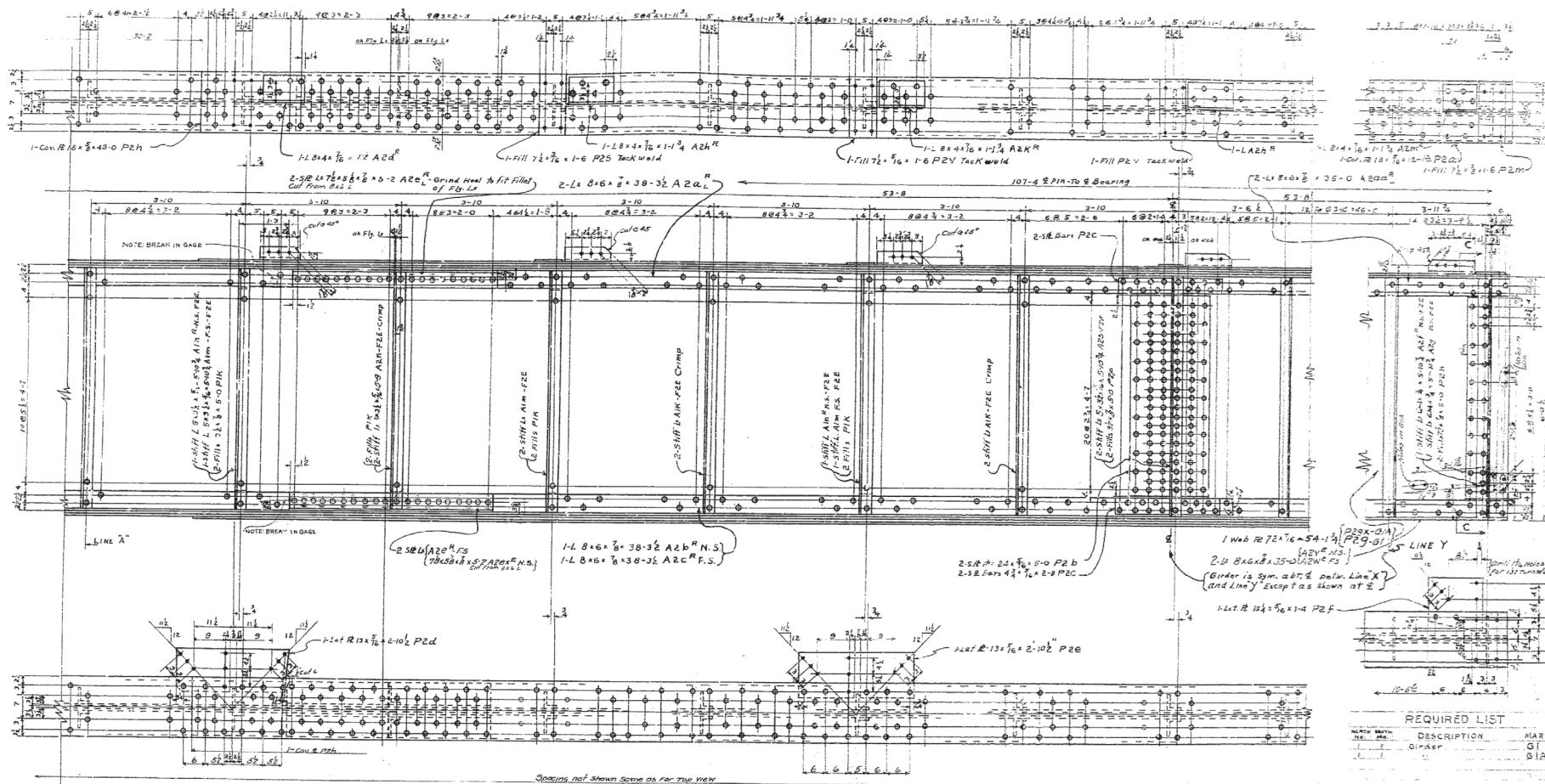
SECT. F-F

- | LIST OF DRAWINGS | |
|------------------|-----------------|
| NO. | DESCRIPTIONS |
| 1 | General |
| 2 | Side Elevation |
| 3 | Front Elevation |
| 4 | Top Elevation |
| 5 | Section |
| 6 | Foundation |
| 7 | Roof Plan |
| 8 | Detail |

Note To Erector
Hand Rail Connections to Railing Posts 3/4" - 1" TYPICAL
in Balts after nuts are tightened
Top Balts in curb Expansion: SE 2/3 to be
removed after concrete has set

DESIGN (ENGINEERING) SPECIAL SUPERVISOR BY: S.D. ENGINEER CHECKED BY:	KANSAS CITY FLOOD CONTROL PROJECT LIBERTY BEND BRIDGE MISSOURI, RIVER DETAILS OF: ERETION PLAN THE MT. VERNON BRIDGE CO. MT. VERNON, OHIO IN CHARGE OF: <i>W.D.</i> MADE BY: <i>W.D.</i> CHECKED BY: <i>W.D.</i> DRAWN BY: <i>W.D.</i>
FIELD NOTES: <i>See sketch</i> EXHIBIT: <i>Plans provided</i> REMARKS:	CONT. NO. 6568 SHEET E1

6

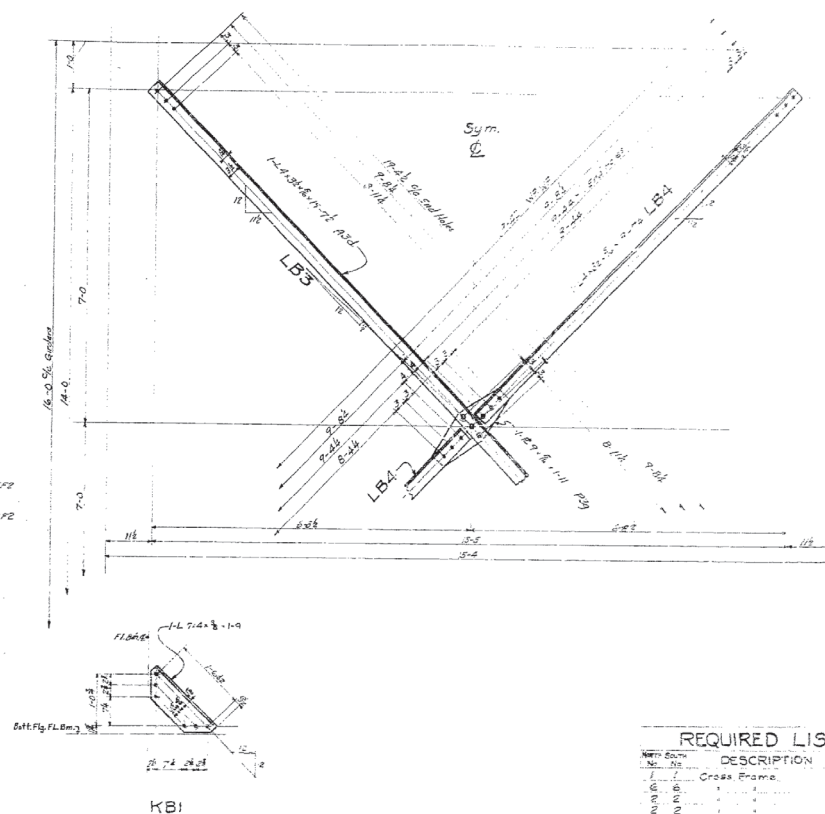
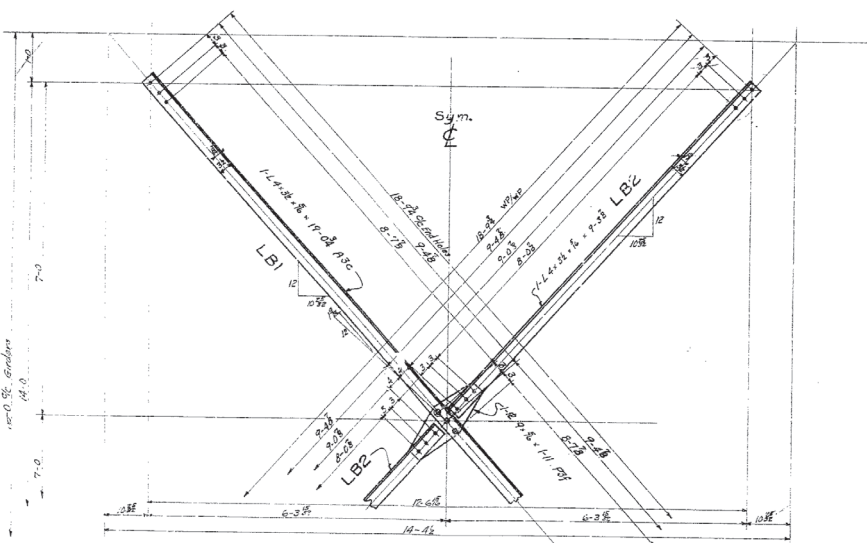


Work this sheet with Sh. 1
Edge & End Dist. : $\frac{1}{2}$ unless Noted

DESIGN: Structural Carbon Steel
 CONSTRUCTION: Cast Steel
 LOAD INSPECTION BY U.S. Engineers
 STRESS: Heavy 1-Cont. Road Load Heavy
 No abnormal, limit to be used
 LOAD LIMIT: 50 others
 WEIGHT: 70 TONS (MAXIMUM) 80 TONS (TOTAL)
 DIMENSIONS: 14'-0"
 LOAD CONNECTIONS: Heavy
 FASTENED BY: others

KANSAS CITY FLOOD CONTROL PROJECT
 LIBERTY BEND BRIDGE
 MISSOURI
 DETAILS OF: Girder
 THE MT. VERNON BRIDGE CO.
 MT. VERNON, OHIO
 IN CHARGE OF: Smith
 MADE BY: ALC 11-8-57 CHECKED BY: C.R.B. 11-8-57
 TRAILER BY: ALC
 CONT. NO. 6558 JSCW COUNTY
 SHEET 2
 L-558

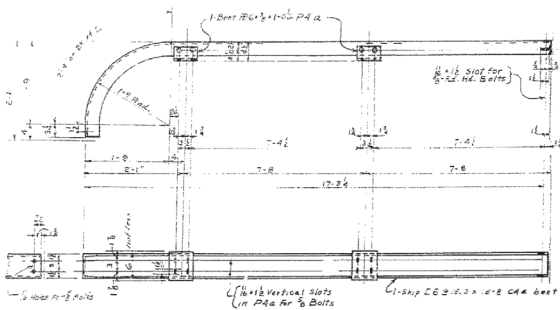
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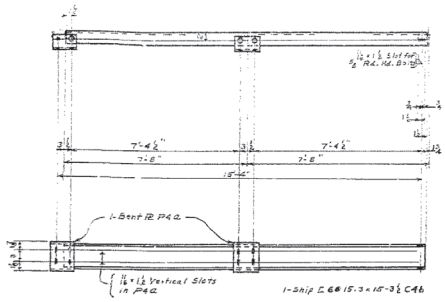
REQUIRED LIST		
North South N. S.	DESCRIPTION	MARK
1 1	Cross Frame	CR
6 6	" "	CR2
2 2	" "	CR3
6 6	" "	CR4
6 6	" "	CR5
6 6	" "	CR6
1 1	Lateral Bracing	LB1
2 2	" "	LB2
6 6	" "	LB3
12 12	" "	LB4
28 28	Knee Braces	KB

[illegible]

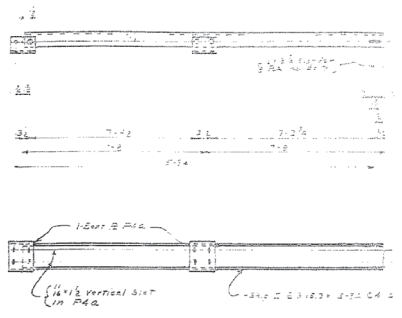
KANSAS CITY FLOOD CONTROL PROJECT
LIBERTY BEND BRIDGE
MISSOURI RIVER
DETAILS OF Cross Frame - Left Bracing, Knee Braces
THE MT. VERNON BRIDGE CO.
MT. VERNON, OHIO
IN CHARGE OF W. H. H. H.
MADE IN THE U.S.A. CHECKED BY W. H. H. H.
JACKSON COUNTY
CONT. NO. (6558) SHEET 3
1-1962



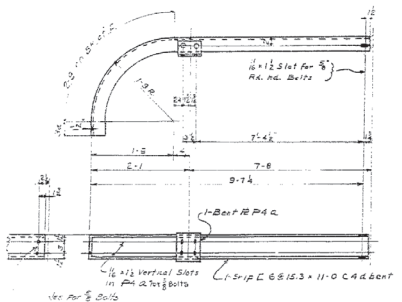
HR1



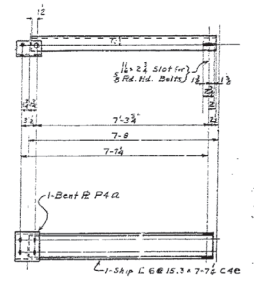
HR3



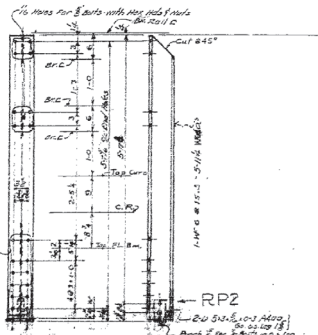
HR4



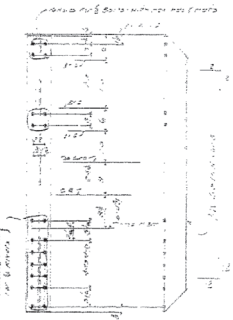
HR2



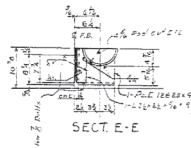
HR5



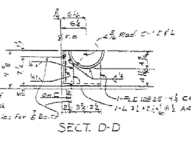
HR6



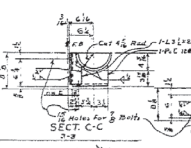
HR7



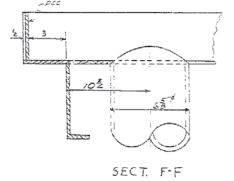
SECT. E-E



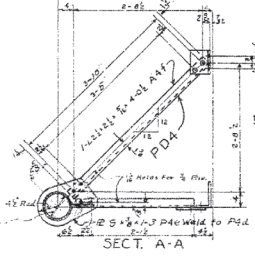
SECT. D-D



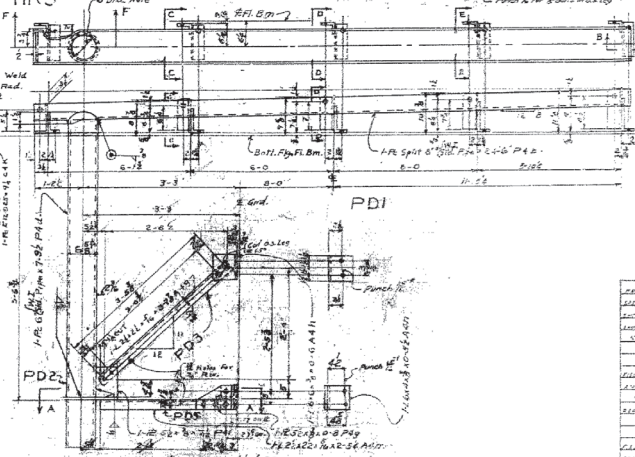
SECT. C-C



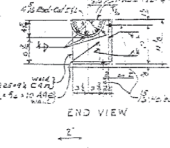
SECT. F-F



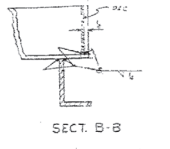
SECT. A-A



PD1



END VIEW



SECT. B-B

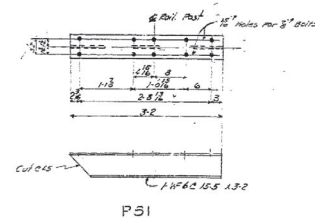
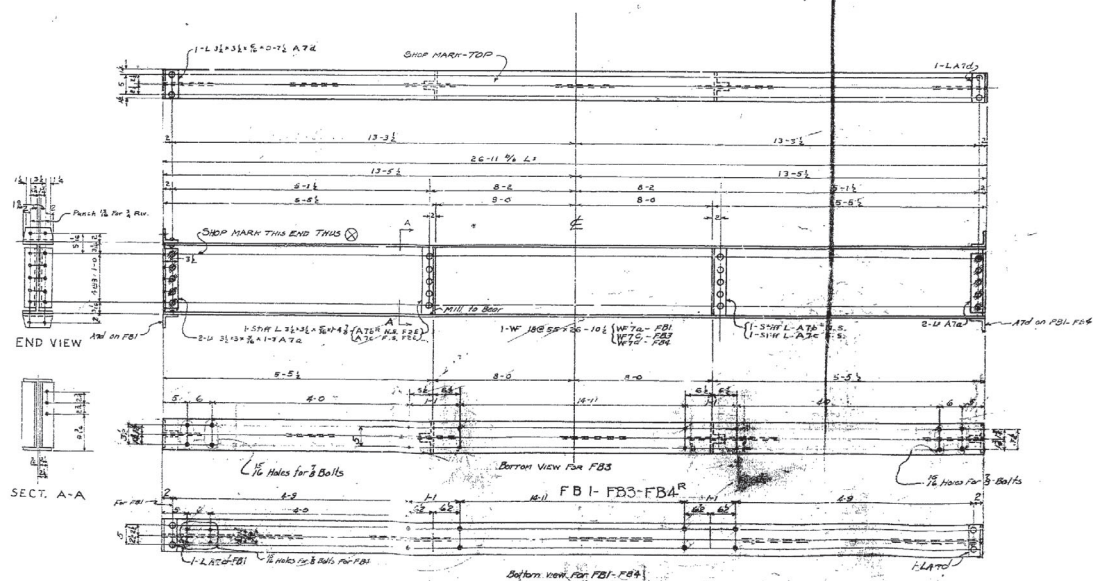
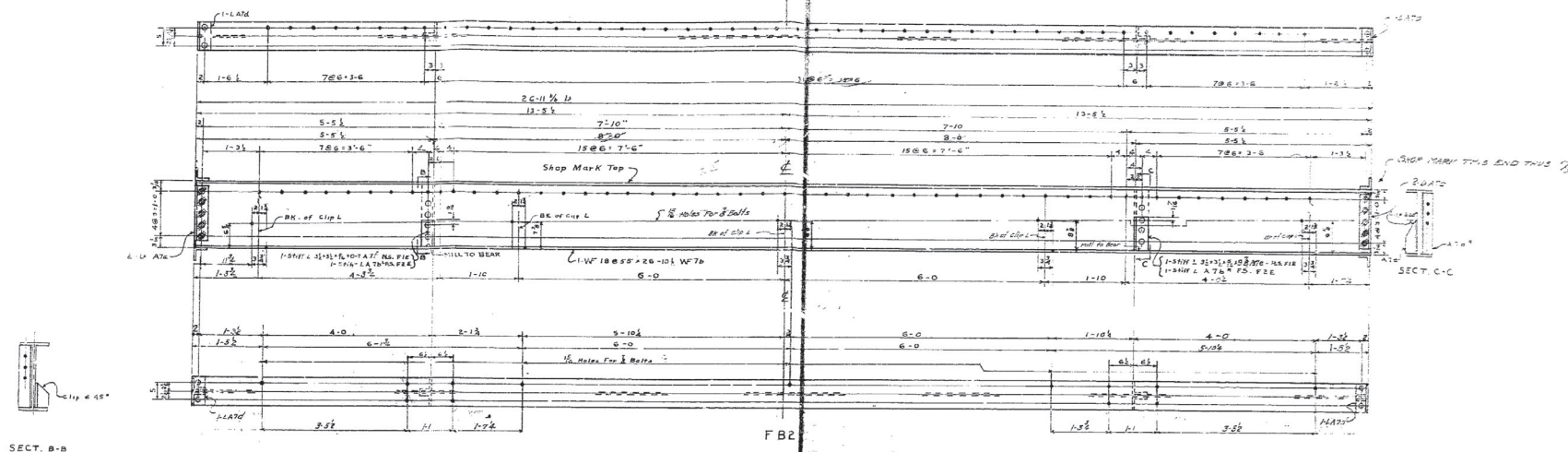
REQUIRED LIST

NO.	DESCRIPTION	MARK
1	1-Bent #10 x 1-1/2 P42	HR1
2	1-1/2 Slot for 5/8 Rd. Hd. Bolt	HR2
3	7'-4 1/2	HR3
4	7'-8	HR4
5	1-1/2 Vertical Slots in P42 for 5/8 Bolts	HR5
6	1-Slip L 60 x 153 x 1/2 C46 Bent	HR6
7	1-Bent #10 x 1-1/2 P42	HR7
8	1-1/2 Slot for 5/8 Rd. Hd. Bolt	HR8
9	7'-4 1/2	HR9
10	7'-8	HR10
11	1-1/2 Vertical Slots in P42 for 5/8 Bolts	HR11
12	1-Slip L 60 x 153 x 1/2 C46 Bent	HR12
13	1-Bent #10 x 1-1/2 P42	HR13
14	1-1/2 Slot for 5/8 Rd. Hd. Bolt	HR14
15	7'-4 1/2	HR15
16	7'-8	HR16
17	1-1/2 Vertical Slots in P42 for 5/8 Bolts	HR17
18	1-Slip L 60 x 153 x 1/2 C46 Bent	HR18
19	1-Bent #10 x 1-1/2 P42	HR19
20	1-1/2 Slot for 5/8 Rd. Hd. Bolt	HR20
21	7'-4 1/2	HR21
22	7'-8	HR22
23	1-1/2 Vertical Slots in P42 for 5/8 Bolts	HR23
24	1-Slip L 60 x 153 x 1/2 C46 Bent	HR24
25	1-Bent #10 x 1-1/2 P42	HR25
26	1-1/2 Slot for 5/8 Rd. Hd. Bolt	HR26
27	7'-4 1/2	HR27
28	7'-8	HR28
29	1-1/2 Vertical Slots in P42 for 5/8 Bolts	HR29
30	1-Slip L 60 x 153 x 1/2 C46 Bent	HR30
31	1-Bent #10 x 1-1/2 P42	HR31
32	1-1/2 Slot for 5/8 Rd. Hd. Bolt	HR32
33	7'-4 1/2	HR33
34	7'-8	HR34
35	1-1/2 Vertical Slots in P42 for 5/8 Bolts	HR35
36	1-Slip L 60 x 153 x 1/2 C46 Bent	HR36
37	1-Bent #10 x 1-1/2 P42	HR37
38	1-1/2 Slot for 5/8 Rd. Hd. Bolt	HR38
39	7'-4 1/2	HR39
40	7'-8	HR40
41	1-1/2 Vertical Slots in P42 for 5/8 Bolts	HR41
42	1-Slip L 60 x 153 x 1/2 C46 Bent	HR42
43	1-Bent #10 x 1-1/2 P42	HR43
44	1-1/2 Slot for 5/8 Rd. Hd. Bolt	HR44
45	7'-4 1/2	HR45
46	7'-8	HR46
47	1-1/2 Vertical Slots in P42 for 5/8 Bolts	HR47
48	1-Slip L 60 x 153 x 1/2 C46 Bent	HR48
49	1-Bent #10 x 1-1/2 P42	HR49
50	1-1/2 Slot for 5/8 Rd. Hd. Bolt	HR50
51	7'-4 1/2	HR51
52	7'-8	HR52
53	1-1/2 Vertical Slots in P42 for 5/8 Bolts	HR53
54	1-Slip L 60 x 153 x 1/2 C46 Bent	HR54
55	1-Bent #10 x 1-1/2 P42	HR55
56	1-1/2 Slot for 5/8 Rd. Hd. Bolt	HR56
57	7'-4 1/2	HR57
58	7'-8	HR58
59	1-1/2 Vertical Slots in P42 for 5/8 Bolts	HR59
60	1-Slip L 60 x 153 x 1/2 C46 Bent	HR60
61	1-Bent #10 x 1-1/2 P42	HR61
62	1-1/2 Slot for 5/8 Rd. Hd. Bolt	HR62
63	7'-4 1/2	HR63
64	7'-8	HR64
65	1-1/2 Vertical Slots in P42 for 5/8 Bolts	HR65
66	1-Slip L 60 x 153 x 1/2 C46 Bent	HR66
67	1-Bent #10 x 1-1/2 P42	HR67
68	1-1/2 Slot for 5/8 Rd. Hd. Bolt	HR68
69	7'-4 1/2	HR69
70	7'-8	HR70
71	1-1/2 Vertical Slots in P42 for 5/8 Bolts	HR71
72	1-Slip L 60 x 153 x 1/2 C46 Bent	HR72
73	1-Bent #10 x 1-1/2 P42	HR73
74	1-1/2 Slot for 5/8 Rd. Hd. Bolt	HR74
75	7'-4 1/2	HR75
76	7'-8	HR76
77	1-1/2 Vertical Slots in P42 for 5/8 Bolts	HR77
78	1-Slip L 60 x 153 x 1/2 C46 Bent	HR78
79	1-Bent #10 x 1-1/2 P42	HR79
80	1-1/2 Slot for 5/8 Rd. Hd. Bolt	HR80
81	7'-4 1/2	HR81
82	7'-8	HR82
83	1-1/2 Vertical Slots in P42 for 5/8 Bolts	HR83
84	1-Slip L 60 x 153 x 1/2 C46 Bent	HR84
85	1-Bent #10 x 1-1/2 P42	HR85
86	1-1/2 Slot for 5/8 Rd. Hd. Bolt	HR86
87	7'-4 1/2	HR87
88	7'-8	HR88
89	1-1/2 Vertical Slots in P42 for 5/8 Bolts	HR89
90	1-Slip L 60 x 153 x 1/2 C46 Bent	HR90
91	1-Bent #10 x 1-1/2 P42	HR91
92	1-1/2 Slot for 5/8 Rd. Hd. Bolt	HR92
93	7'-4 1/2	HR93
94	7'-8	HR94
95	1-1/2 Vertical Slots in P42 for 5/8 Bolts	HR95
96	1-Slip L 60 x 153 x 1/2 C46 Bent	HR96
97	1-Bent #10 x 1-1/2 P42	HR97
98	1-1/2 Slot for 5/8 Rd. Hd. Bolt	HR98
99	7'-4 1/2	HR99
100	7'-8	HR100

DESIGNER	STRUCTURAL SECTION SHEET	DATE	10/1/50
CONTRACTOR	BARRETT		
ENGINEER	U.S. ENGINEERS		
PROJECT	1-5-501 And 1-5-502	PAID	
NOTES	See drawings for details		

KANSAS CITY FLOOD CONTROL PROJECT
LIBERTY BEND BRIDGE
 MISSOURI RIVER
 DETAILS OF BRIDGE AND APPROACHES
 THE MT. VERNON BRIDGE CO.
 MT. VERNON, OHIO
 IN CHARGE OF: J. H. HARRIS
 MADE BY: J. H. HARRIS
 CONT. NO. 3556 SHEET

12



FOR STUPP BROS.

REQUIRED LIST

NO.	NO.	DESCRIPTION	MAR.
10	10	Floor Beans	FBI
1	1		6B2
2	2		FBI

End & Edge Distances 1/2" unless Noted

1. Structural Carbon Steel
 2. ASTM A36
 3. ASTM A572 Gr. 50
 4. ASTM A572 Gr. 60
 5. ASTM A572 Gr. 65
 6. ASTM A572 Gr. 70
 7. ASTM A572 Gr. 75
 8. ASTM A572 Gr. 80
 9. ASTM A572 Gr. 85
 10. ASTM A572 Gr. 90
 11. ASTM A572 Gr. 95
 12. ASTM A572 Gr. 100
 13. ASTM A572 Gr. 105
 14. ASTM A572 Gr. 110
 15. ASTM A572 Gr. 115
 16. ASTM A572 Gr. 120
 17. ASTM A572 Gr. 125
 18. ASTM A572 Gr. 130
 19. ASTM A572 Gr. 135
 20. ASTM A572 Gr. 140
 21. ASTM A572 Gr. 145
 22. ASTM A572 Gr. 150
 23. ASTM A572 Gr. 155
 24. ASTM A572 Gr. 160
 25. ASTM A572 Gr. 165
 26. ASTM A572 Gr. 170
 27. ASTM A572 Gr. 175
 28. ASTM A572 Gr. 180
 29. ASTM A572 Gr. 185
 30. ASTM A572 Gr. 190
 31. ASTM A572 Gr. 195
 32. ASTM A572 Gr. 200
 33. ASTM A572 Gr. 205
 34. ASTM A572 Gr. 210
 35. ASTM A572 Gr. 215
 36. ASTM A572 Gr. 220
 37. ASTM A572 Gr. 225
 38. ASTM A572 Gr. 230
 39. ASTM A572 Gr. 235
 40. ASTM A572 Gr. 240
 41. ASTM A572 Gr. 245
 42. ASTM A572 Gr. 250
 43. ASTM A572 Gr. 255
 44. ASTM A572 Gr. 260
 45. ASTM A572 Gr. 265
 46. ASTM A572 Gr. 270
 47. ASTM A572 Gr. 275
 48. ASTM A572 Gr. 280
 49. ASTM A572 Gr. 285
 50. ASTM A572 Gr. 290
 51. ASTM A572 Gr. 295
 52. ASTM A572 Gr. 300
 53. ASTM A572 Gr. 305
 54. ASTM A572 Gr. 310
 55. ASTM A572 Gr. 315
 56. ASTM A572 Gr. 320
 57. ASTM A572 Gr. 325
 58. ASTM A572 Gr. 330
 59. ASTM A572 Gr. 335
 60. ASTM A572 Gr. 340
 61. ASTM A572 Gr. 345
 62. ASTM A572 Gr. 350
 63. ASTM A572 Gr. 355
 64. ASTM A572 Gr. 360
 65. ASTM A572 Gr. 365
 66. ASTM A572 Gr. 370
 67. ASTM A572 Gr. 375
 68. ASTM A572 Gr. 380
 69. ASTM A572 Gr. 385
 70. ASTM A572 Gr. 390
 71. ASTM A572 Gr. 395
 72. ASTM A572 Gr. 400
 73. ASTM A572 Gr. 405
 74. ASTM A572 Gr. 410
 75. ASTM A572 Gr. 415
 76. ASTM A572 Gr. 420
 77. ASTM A572 Gr. 425
 78. ASTM A572 Gr. 430
 79. ASTM A572 Gr. 435
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 81. ASTM A572 Gr. 445
 82. ASTM A572 Gr. 450
 83. ASTM A572 Gr. 455
 84. ASTM A572 Gr. 460
 85. ASTM A572 Gr. 465
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 87. ASTM A572 Gr. 475
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 94. ASTM A572 Gr. 510
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 97. ASTM A572 Gr. 525
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 132. ASTM A572 Gr. 700
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 134. ASTM A572 Gr. 710
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 136. ASTM A572 Gr. 720
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 141. ASTM A572 Gr. 745
 142. ASTM A572 Gr. 750
 143. ASTM A572 Gr. 755
 144. ASTM A572 Gr. 760
 145. ASTM A572 Gr. 765
 146. ASTM A572 Gr. 770
 147. ASTM A572 Gr. 775
 148. ASTM A572 Gr. 780
 149. ASTM A572 Gr. 785
 150. ASTM A572 Gr. 790
 151. ASTM A572 Gr. 795
 152. ASTM A572 Gr. 800
 153. ASTM A572 Gr. 805
 154. ASTM A572 Gr. 810
 155. ASTM A572 Gr. 815
 156. ASTM A572 Gr. 820
 157. ASTM A5

KANSAS CITY FLOOD CONTROL PROJECT
LIBERTY BEND BRIDGE
MISSOURI RIVER
DETAILS OF *Four Spans*
THE MT. VERNON BRIDGE CO.
MT. VERNON, OHIO

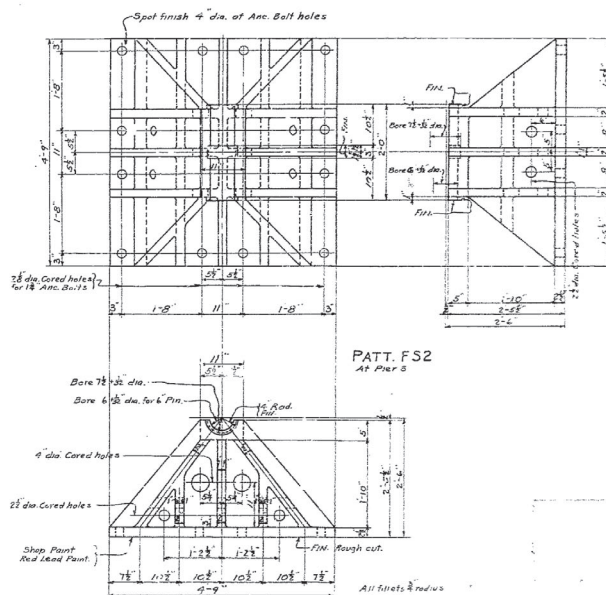
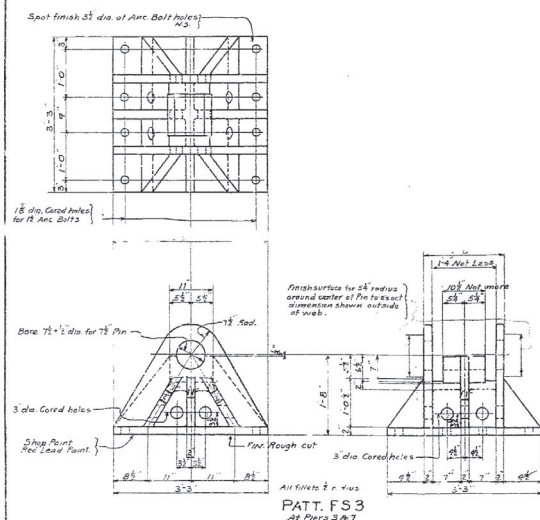
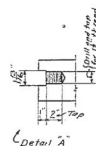
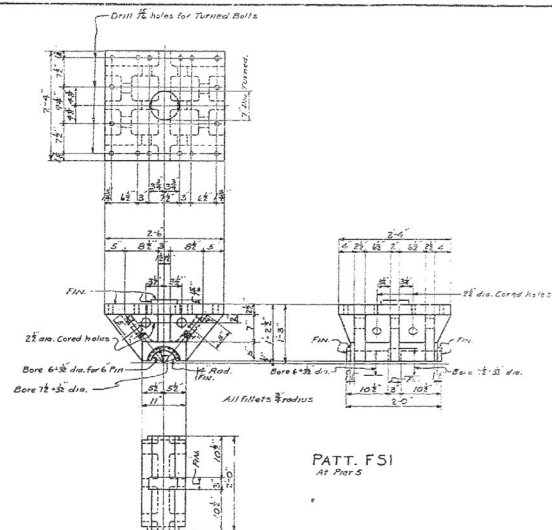
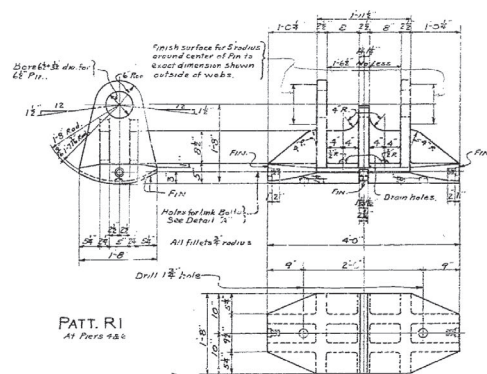
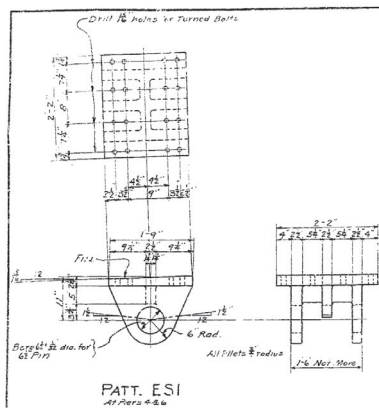
IN CHARGE OF W. H. H. H.
MADE BY W. H. H. H. CHECKED BY W. H. H. H.

DATE OF RECEIPT _____ CHECKED BY _____

CONT. NO. 6568 JACKSON COUNTY 2-15-55 7

CONT. NO. 00001 SHEET 1

24. 207 2-10-5



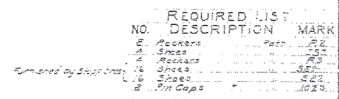
Drawing Revised Nov. 12, 1947 to show
12" diam. cored holes instead of 18"

NO.	DESCRIPTION	DATE
1	Specs	11/12/47
2	Revised	11/12/47
3	Specs	11/12/47
4	Revised	11/12/47

All Castings to be annealed

KANSAS CITY FLOOD CONTROL DISTRICT	
LIBERTY BEND BRIDGE	
MISSOURI RIVER	
DETAILED AND REVISIONS	
THE MT. VERNON BRIDGE CO.	
MT. VERNON, O.	
CONT. NO. 6569	
JANUARY 1948	

442



نام خانوادگی: _____

2-56

Hole for 6" I.I. Pipe
Scale: 1/2" = 1'-0"
REQD 2 COVER P.Ls. THUS, "P1"

Standard 8" galv. corrugated pipe

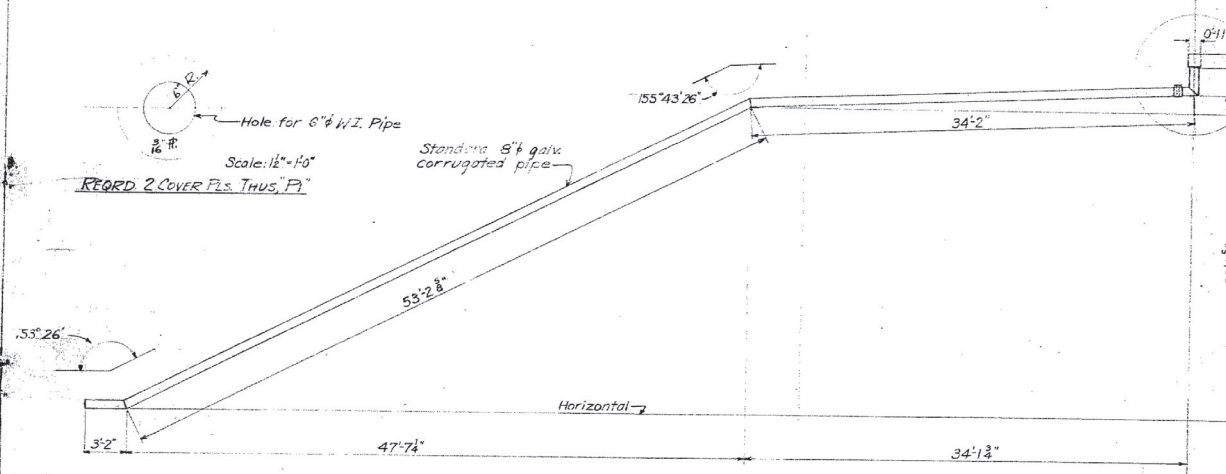


DIAGRAM OF PIPE ASSEMBLY AT ABUTMENT #1

Scale: 1/8" = 1'-0"

Fabricator may locate joints for best shipping and handling advantage.
Dimensions are taken from bottom of pipe.

1/2" x 2" W.I. Standard Galvanized
Scale: 1/2" = 1'-0"
DETAIL OF HANGER
REQD 2 THUS, "H1"

Standard 8" galv. corrugated pipe

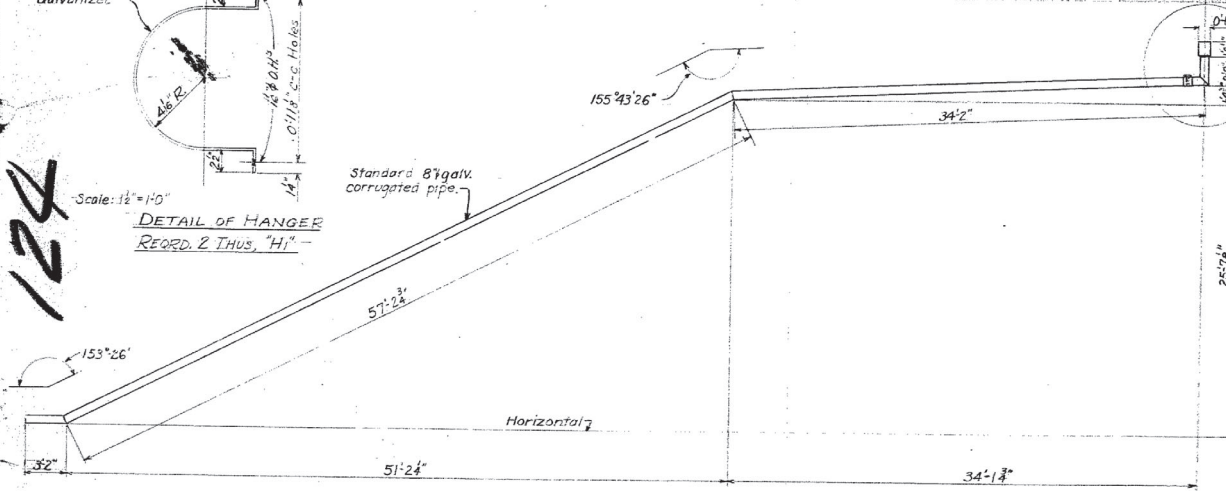
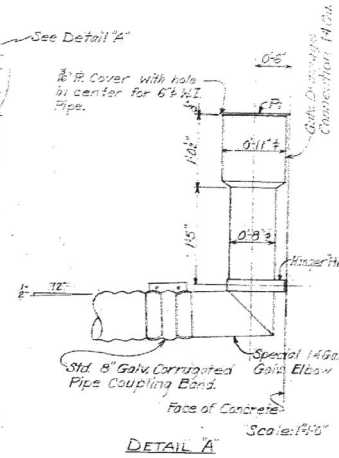


DIAGRAM OF PIPE ASSEMBLY AT ABUTMENT #9

Scale: 1/8" = 1'-0"



DETAIL A

Scale: 1/2" = 1'-0"

SUBSTRUCTURE DRAINS
AT
ABUTMENTS #1 AND #9
LIBERTY BEND BRIDGE
MISSOURI RIVER CUT OFF

THE MASSMAN CONST. CO.
KANSAS CITY BRIDGE CO.
Kansas City Bridge Co's Contract # 2962

12-16-47 Rev. dimension of pipe.
11-15-47
Dwg. # 5907

Sheet 1A JACKSON COUNTY

1-568

APPROVED: 1-5-48

663

20-1

