

WTC
DRAWING BOOK 6
AB 1-0 — AB 1-11

Cover
Stock
8 1/2 x 11

PROJECT THE WORLD TRADE CENTER

TITLE DRAWING BOOK 6

DATE

REVISIONS

WTCI-20-LERA

6-AB1-

Connection Details 200-399 & 700-799
(See 6-AB1-0 for index)

6-AB6- & 6-B6-

Interior Columns to Floor 1
(See 6-AB6-1 for index)

6-AB2-

Connection Details 100-199 & 400-599
(See 6-AB2-0 for index)

6-AB7-

Anchors to Slabs
(See 6-AB7-0 for index)

6-AB3-

Horizontal Bracing & Bridging Details
Beam Framed Floors
(See 6-AB3-0 for index)

FOR TWR A + B
INTERIOR COLUMNS TO FLOOR 1
(NOT IN CORE)

6-AB8-

Perimeter Core Truss Seats &
Shear Studs
(See 6-AB8-1 for index)

6-AB4-

Louver Wall Struts
(See 6-AB4-0 for index)

6-AB9-

Temporary Framing for Elevator 6 & 7
(See 6-AB9-0 for index)

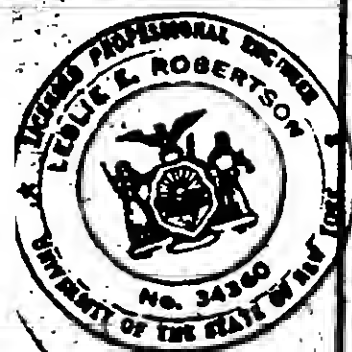
6-AB5-

Vertical Bracing
(See 6-AB5-0 for index)

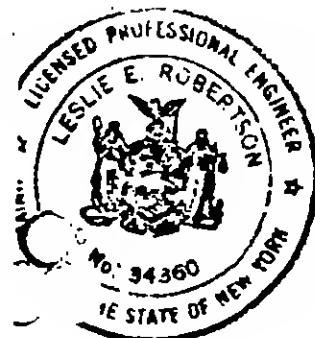
Panel Schedules

Tower B
B1-300 - B1-508

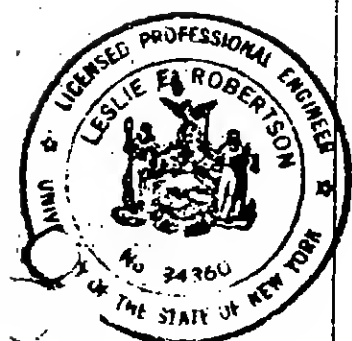
Note: See 6-AB0 -
for latest date
for each page



PROJECT	THE WORLD TRADE CENTER	TITLE	DRAWING BOOK 6 - BEAM CONNECTIONS & MISC. DETAILS	DATE	10/ 6/72
REVISIONS PRINTED 5/18/73					
6-ABO- 0	5/18/73	6-AB1- 15.1	10/ 2/67	6-AB1- 40	12/ 7/67
6-ABO- 0.1	5/18/73	6-AB1- 15.2	4/17/68	6-AB1- 40.1	7/28/67
6-ABO- 0.2	5/18/73	6-AB1- 15.3	4/17/68	6-AB1- 41	9/18/68
6-ABO- 0.3	5/18/73	6-AB1- 16	10/ 5/67	6-AB1- 41.1	9/18/68
6-ABO- 0.4	5/18/73	6-AB1- 17	9/15/67	6-AB1- 41.2	2/ 9/68
6-ABO- 0.5	5/18/73	6-AB1- 17.1	10/ 2/67	6-AB1- 41.3	3/11/68
6-AB1- 0	5/18/73	6-AB1- 17.2	10/ 2/67	6-AB1- 41.4	2/ 9/68
6-AB1- 0.1	5/ 1/69	6-AB1- 18	12/21/67	6-AB1- 42	12/21/67
6-AB1- 0.2	5/ 1/69	6-AB1- 20	7/28/67	6-AB1- 42.1	12/21/67
6-AB1- 0.3	5/ 1/69	6-AB1- 20.1	7/28/67	6-AB1- 43	10/ 5/67
6-AB1- 1	7/28/67	6-AB1- 20.2	7/ 5/67	6-AB1- 44	8/14/67
6-AB1- 2	12/21/67	6-AB1- 21	9/15/67	6-AB1- 44.1	8/14/67
6-AB1- 2.1	12/21/67	6-AB1- 21.1	11/16/67	6-AB1- 44.2	2/ 9/68
6-AB1- 2.2	10/ 5/67	6-AB1- 22	10/ 5/67	6-AB1- 44.3	10/ 2/67
6-AB1- 2.3	10/ 5/67	6-AB1- 23	10/ 5/67	6-AB1- 44.4	10/ 2/67
6-AB1- 2.4	9/25/68	6-AB1- 23.1	7/28/67	6-AB1- 44.5	2/ 9/68
6-AB1- 2.5	10/31/67	6-AB1- 24	8/ 5/67	6-AB1- 44.6	2/ 9/68
6-AB1- 2.6	7/14/69	6-AB1- 24.1	10/ 2/67	6-AB1- 44.7	9/18/68
6-AB1- 5	12/21/67	6-AB1- 25	8/14/67	6-AB1- 44.8	9/18/68
6-AB1- 5.1	11/10/67	6-AB1- 25.1	10/ 2/67	6-AB1- 45	10/ 2/67
6-AB1- 5.2	11/23/67	6-AB1- 25.2	10/ 2/67	6-AB1- 45.1	10/ 2/67
6-AB1- 5.3	11/10/67	6-AB1- 26	11/20/68	6-AB1- 46	10/ 2/67
6-AB1- 5.4	12/21/67	6-AB1- 26.1	10/ 2/67	6-AB1- 47	10/ 5/67
6-AB1- 6	9/15/67	6-AB1- 27	9/15/67	6-AB1- 48	10/ 5/67
6-AB1- 6.1	9/15/67	6-AB1- 27.1	9/15/67	6-AB1- 49	5/ 6/68
6-AB1- 6.2	10/ 5/67	6-AB1- 27.2	2/ 9/68	6-AB1- 49.1	5/ 6/68
6-AB1- 6.3	9/30/69	6-AB1- 27.3	10/31/67	6-AB1- 50	9/25/68
6-AB1- 7	10/ 5/67	6-AB1- 27.4	11/10/67	6-AB1- 50.1	10/ 2/67
6-AB1- 7.1	12/21/67	6-AB1- 27.5	9/15/67	6-AB1- 51	11/10/67
6-AB1- 9	10/ 2/67	6-AB1- 27.6	11/10/67	6-AB1- 51.1	10/ 5/67
6-AB1- 9.1	7/28/67	6-AB1- 27.7	10/31/67	6-AB1- 51.2	11/23/67
6-AB1- 9.2	7/28/67	6-AB1- 27.8	2/ 9/68	6-AB1- 51.3	11/23/67
6-AB1- 9.3	10/31/67	6-AB1- 28	10/ 2/67	6-AB1- 52	11/23/67
6-AB1- 9.4	8/ 5/67	6-AB1- 28.1	10/ 2/67	6-AB1- 52.1	11/23/67
6-AB1- 9.5	10/31/67	6-AB1- 29	7/28/67	6-AB1- 52.2	1/24/68
6-AB1- 9.6	10/31/67	6-AB1- 29.1	7/28/67	6-AB1- 53	12/21/67
6-AB1- 9.7	10/31/67	6-AB1- 30	VCIC	6-AB1- 53*	12/21/67
6-AB1- 9.8	10/31/67	6-AB1- 31	12/21/67	6-AB1- 53.1	12/21/67
6-AB1- 9.9	10/ 2/67	6-AB1- 32	11/14/67	6-AB1- 53.1*	12/21/67
6-AB1- 9.10	2/ 9/68	6-AB1- 33	5/ 6/68	6-AB1- 53.2	8/ 5/67
6-AB1- 11	11/14/67	6-AB1- 33.1	11/21/67	6-AB1- 53.3	9/29/67
6-AB1- 11.1	7/28/67	6-AB1- 34	10/ 5/67	6-AB1- 53.4	1/24/68
6-AB1- 12	1/24/68	6-AB1- 35	11/23/67	6-AB1- 54	10/ 5/67
6-AB1- 13	9/15/67	6-AB1- 36	11/10/67	6-AB1- 55	12/ 7/67
6-AB1- 13.1	9/15/67	6-AB1- 36.1	11/10/67	6-AB1- 55.1	11/10/67
6-AB1- 13.2	9/15/67	6-AB1- 36.2	11/10/67	6-AB1- 56	9/15/67
6-AB1- 13.3	9/15/67	6-AB1- 37	7/20/67	6-AB1- 56.1	8/14/67
6-AB1- 13.4	10/ 5/67	6-AB1- 38	11/23/67	6-AB1- 56.2	10/ 2/67
6-AB1- 13.5	10/ 5/67	6-AB1- 39	12/ 7/67	6-AB1- 56.3	9/18/68
6-AB1- 15	10/ 2/67	6-AB1- 39.1	9/15/67	6-AB1- 56.4	10/ 2/67
6-AB1- 56.5	9/18/68	6-AB1- 83	11/10/67	6-AB1- 57	10/ 2/67
6-AB1- 57	10/ 2/67	6-AB1- 83*	2/26/68	6-AB1- 58	10/ 5/67
6-AB1- 58	10/ 5/67	6-AB1- 83.1	11/10/67	6-AB1- 59	5/ 6/68
6-AB1- 59	5/ 6/68	6-AB1- 83.1*	2/26/68	6-AB1- 59.1	7/28/67
6-AB1- 59.1	7/28/67	6-AB1- 83.2	2/ 9/68	6-AB1- 59.2	7/17/68
6-AB1- 59.2	7/17/68	6-AB1- 84	10/ 5/67	6-AB1- 59.3	5/17/68
6-AB1- 60	1/ 7/68	6-AB1- 85	7/28/67	6-AB1- 60.1	5/17/68
6-AB1- 60.1	5/17/68	6-AB1- 85.1	7/28/67	6-AB1- 61	5/17/68
6-AB1- 61	5/17/68	6-AB1- 86	8/14/67	6-AB1- 62	11/23/67
6-AB1- 62	11/23/67	6-AB1- 86.1	8/14/67	6-AB1- 62.1	11/23/67
6-AB1- 62.1	11/23/67	6-AB1- 87	8/14/67	6-AB1- 63	11/23/67
6-AB1- 63	11/23/67	6-AB1- 88	2/21/68	6-AB1- 64	11/23/67
6-AB1- 64	11/23/67	6-AB1- 89	12/ 7/67	6-AB1- 65	10/ 2/67
6-AB1- 65	10/ 2/67	6-AB1- 89.1	8/ 5/67	6-AB1- 65.1	10/ 2/67
6-AB1- 65.1	10/ 2/67	6-AB1- 90	2/ 9/68	6-AB1- 65.3	7/28/67
6-AB1- 65.3	7/28/67	6-AB1- 90.1	7/28/67	6-AB1- 65.4	4/17/68
6-AB1- 65.4	4/17/68	6-AB1- 90.2	7/ 5/67	6-AB1- 66	8/ 5/67
6-AB1- 66	8/ 5/67	6-AB1- 90.3	7/28/67	6-AB1- 67	10/31/67
6-AB1- 67	10/31/67	6-AB1- 90.4	9/15/67	6-AB1- 68	11/23/67
6-AB1- 68	11/23/67	6-AB1- 90.5	7/28/67	6-AB1- 69	10/ 5/67
6-AB1- 69	10/ 5/67	6-AB1- 90.6	5/ 6/68	6-AB1- 70	10/ 2/67
6-AB1- 70	10/ 2/67	6-AB1- 90.7	10/ 2/67	6-AB1- 70.1	2/ 9/68
6-AB1- 70.1	2/ 9/68	6-AB1- 90.8	10/ 2/67	6-AB1- 70.2	1/24/68
6-AB1- 70.2	1/24/68	6-AB1- 90.9	2/ 9/68	6-AB1- 71	11/27/68
6-AB1- 71	11/27/68	6-AB1- 90.10	12/21/67	6-AB1- 72	11/10/67
6-AB1- 72	11/10/67	6-AB1- 90.11	2/ 9/68	6-AB1- 72.1	11/10/67
6-AB1- 72.1	11/10/67	6-AB1- 91	11/10/67	6-AB1- 73	11/16/67
6-AB1- 73	11/16/67	6-AB1- 91.1	11/10/67	6-AB1- 74	7/20/67
6-AB1- 74	7/20/67	6-AB1- 92	11/14/67	6-AB1- 75	11/10/67
6-AB1- 75	11/10/67	6-AB1- 92.1	12/21/67	6-AB1- 75.1	9/15/67
6-AB1- 75.1	9/15/67	6-AB1- 93	11/10/67	6-AB1- 76	8/ 5/67
6-AB1- 76	8/ 5/67	6-AB1- 93.1	11/10/67	6-AB1- 76.1	8/ 5/67
6-AB1- 76.1	8/ 5/67	6-AB1- 93.2	12/21/67	6-AB1- 77	8/ 5/67
6-AB1- 77	8/ 5/67	6-AB1- 94	7/28/67	6-AB1- 77.1	9/18/68
6-AB1- 77.1	9/18/68	6-AB1- 94.1	7/28/67	6-AB1- 77.2	2/ 9/68
6-AB1- 77.2	2/ 9/68	6-AB1- 94.2	8/ 5/67	6-AB1- 77.3	9/18/68
6-AB1- 77.3	9/18/68	6-AB1- 94.3	1/24/68	6-AB1- 77.4	9/18/68
6-AB1- 77.4	9/18/68	6-AB1- 95	10/ 2/67	6-AB1- 78	2/21/68
6-AB1- 78	2/21/68	6-AB1- 96	7/20/67	6-AB1- 78.1	10/ 2/67
6-AB1- 78.1	10/ 2/67	6-AB1- 97	10/ 5/67	6-AB1- 81	11/14/67
6-AB1- 81	11/14/67	6-AB1- 98	10/ 2/67	6-AB1- 81*	10/11/67
6-AB1- 81*	10/11/67	6-AB1- 99	11/10/67	6-AB1- 81*	12/ 7/67
6-AB1- 81*	12/ 7/67	6-AB1- 99.1	11/10/67	6-AB1- 81.1	12/ 7/67
6-AB1- 81.1	12/ 7/67	6-AB1- 99.2	11/17/67	6-AB1- 81.1*	2/26/68
6-AB1- 81.1*	2/26/68	6-AB1- 99.3	10/ 5/67	6-AB1- 81.2	10/ 5/67
6-AB1- 81.2	10/ 5/67			6-AB1- 82	1/24/68



PROJECT	THE WORLD TRADE CENTER	TITLE	DRAWING BOOK 6 - BEAM CONNECTIONS & MISC. DETAILS	DATE	10/ 6/72
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	6-AB1-101 7/28/67	6-AB1-121 10/ 5/67	6-AB1-145.1 2/ 9/68	6-AB1-171 8/ 5/67	6-AB1-194 8/ 5/67
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	6-AB1-101.2 11/14/67	6-AB1-122 7/28/67	6-AB1-145.4 7/28/67	6-AB1-171.2 8/ 5/67	6-AB1-196 8/ 5/67
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	6-AB1-103.1 10/ 5/67	6-AB1-124.1 11/10/67	6-AB1-150 7/28/67	6-AB1-171.7 2/ 9/68	6-AB1-198.3 2/ 9/68
	6-AB1-103.2 12/21/67	6-AB1-125 10/ 2/67	6-AB1-151 11/10/67	6-AB1-172 7/28/67	6-AB1-198.4 2/ 9/68
	6-AB1-104 7/20/67	6-AB1-127 10/ 2/67	6-AB1-151.1 11/10/67	6-AB1-173 12/ 7/67	6-AB1-199 9/15/67
	6-AB1-105 VOID	6-AB1-127.1 3/29/68	6-AB1-152 1/24/68	6-AB1-173.1 11/10/67	
	6-AB1-106 7/20/67	6-AB1-128 11/10/67	6-AB1-152.1 12/21/67	6-AB1-174 VCIC	
	6-AB1-107 7/20/67	6-AB1-128.1 11/10/67	6-AB1-153 10/ 5/67	6-AB1-174.1 VCIC	
	6-AB1-108 9/15/67	6-AB1-129 11/10/67	6-AB1-154 11/14/67	6-AB1-175 11/10/67	
	6-AB1-108.1 9/15/67	6-AB1-129.1 11/10/67	6-AB1-154.1 7/28/67	6-AB1-175.1 11/10/67	
	6-AB1-108.2 1/24/68	6-AB1-129.2 1/24/68	6-AB1-154.2 10/ 5/67	6-AB1-176 10/ 2/67	
	6-AB1-109 10/ 5/67	6-AB1-130 7/28/67	6-AB1-155 7/28/67	6-AB1-177 2/ 9/68	
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	6-AB1-110* 12/ 8/67	6-AB1-131.1 11/10/67	6-AB1-155.2 2/ 9/68	6-AB1-177.2 2/ 9/68	
	6-AB1-110.1 9/15/67	6-AB1-131.2 10/ 5/67	6-AB1-156 7/28/67	6-AB1-177.3 10/ 5/67	
	6-AB1-110.2 1/24/68	6-AB1-132 7/28/67	6-AB1-156.1 7/28/67	6-AB1-177.4 2/ 9/68	
	6-AB1-111 11/14/67	6-AB1-133 7/28/67	6-AB1-156.2 2/ 9/68	6-AB1-178 11/10/67	
	6-AB1-111.1 11/10/67	6-AB1-134 7/20/67	6-AB1-156.3 3/11/68	6-AB1-178.1 11/10/67	
	6-AB1-112 7/20/67	6-AB1-135 12/21/67	6-AB1-157 7/28/67	6-AB1-179 11/14/67	
	6-AB1-113 11/10/67	6-AB1-136 6/30/67	6-AB1-157.1 7/ 5/67	6-AB1-179.1 11/14/67	
	6-AB1-113.1 11/10/67	6-AB1-136.1 7/28/67	6-AB1-157.2 7/17/68	6-AB1-180 11/10/67	
	6-AB1-113.2 11/10/67	6-AB1-137 10/ 2/67	6-AB1-157.3 7/28/67	6-AB1-180.1 11/10/67	
	6-AB1-114 7/28/67	6-AB1-137.1 10/ 2/67	6-AB1-157.4 7/17/68	6-AB1-181 10/ 5/67	
	6-AB1-114.1 8/ 5/67	6-AB1-138 7/28/67	6-AB1-158 11/10/67	6-AB1-181.1 10/ 5/67	
	6-AB1-114.2 11/10/67	6-AB1-139 11/16/67	6-AB1-159 7/28/67	6-AB1-182 12/21/67	
	6-AB1-114.3 11/10/67	6-AB1-140 VOID	6-AB1-159.1 7/28/67	6-AB1-183 8/14/67	
	6-AB1-114.4 12/21/67	6-AB1-141 5/ 6/68	6-AB1-160 7/28/67	6-AB1-184 8/14/67	
	6-AB1-115 11/10/67	6-AB1-141.1 11/10/67	6-AB1-160.1 7/28/67	6-AB1-184.1 9/29/67	
	6-AB1-115.1 9/15/67	6-AB1-141.2 2/ 9/68	6-AB1-161 7/28/67	6-AB1-185 8/14/67	
	6-AB1-116 9/15/67	6-AB1-142 10/ 2/67	6-AB1-161.1 7/28/67	6-AB1-186 8/14/67	
	6-AB1-116.1 9/15/67	6-AB1-142.1 10/ 2/67	6-AB1-161.2 10/31/67	6-AB1-187 9/29/67	
	6-AB1-117 7/28/67	6-AB1-142.2 11/17/67	6-AB1-162 8/ 5/67	6-AB1-188 11/23/67	
	6-AB1-117.1 12/21/67	6-AB1-142.3 8/14/67	6-AB1-162.1 8/ 5/67	6-AB1-188.1 11/23/67	
	6-AB1-117.2 2/ 9/68	6-AB1-142.4 9/15/67	6-AB1-164 10/ 5/67	6-AB1-188.2 10/ 5/67	
	6-AB1-117.2* 12/ 8/67	6-AB1-142.5 11/10/67	6-AB1-164.1 10/ 2/67	6-AB1-189 8/14/67	
	6-AB1-117.3 2/ 9/68	6-AB1-142.6 9/15/67	6-AB1-164.2 11/23/67	6-AB1-189.1 11/14/67	
	6-AB1-117.4 4/17/68	6-AB1-142.7 11/10/67	6-AB1-165 10/ 2/67	6-AB1-189.2 8/14/67	
	6-AB1-118 11/10/67	6-AB1-142.8 10/ 2/67	6-AB1-166 7/28/67	6-AB1-189.3 11/14/67	
	6-AB1-118.1 11/10/67	6-AB1-142.9 7/17/68	6-AB1-166.1 10/31/67	6-AB1-189.4 11/14/67	
	6-AB1-119 7/28/67	6-AB1-142.10 4/17/68	6-AB1-167 11/10/67	6-AB1-189.5 7/17/68	
	6-AB1-119.1 7/28/67	6-AB1-143 7/20/67	6-AB1-167.1 11/10/67	6-AB1-189.6 7/17/68	
	6-AB1-120 10/ 5/67	6-AB1-144 7/28/67	6-AB1-168 10/ 2/67	6-AB1-190 11/14/67	
	6-AB1-120.1 10/ 5/67	6-AB1-144.1 8/ 5/67	6-AB1-169 10/31/67	6-AB1-191 8/ 5/67	
	6-AB1-120.2 11/23/67	6-AB1-144.2 8/ 5/67	6-AB1-169.1 10/ 2/67	6-AB1-192 8/14/67	



PROJECT	TITLE	DATE
THE WORLD TRADE CENTER	DRAWING BOOK 6 - BEAM CONNECTIONS & MISC. DETAILS	10/ 6/72

REVISIONS

PRINTER
5/18/73

6-AB1-200	11/10/67	6-AB1-232	6/30/67	6-AB1-307	8/14/67
6-AB1-200.1	11/10/67	6-AB1-233	6/30/67	6-AB1-307.1	8/14/67
6-AB1-200.2	11/10/67	6-AB1-234	6/30/67	6-AB1-308	8/14/67
6-AB1-202	11/10/67	6-AB1-235	2/ 9/68	6-AB1-308.1	8/14/67
6-AB1-202.1	11/10/67	6-AB1-235.1	2/ 9/68	6-AB1-309	8/14/67
6-AB1-202.2	2/ 9/68	6-AB1-236	2/ 9/68	6-AB1-309.1	8/14/67
6-AB1-202.3	1/24/68	6-AB1-237	8/14/67	6-AB1-309.2	8/14/67
6-AB1-203	9/29/67	6-AB1-238	2/ 9/68	6-AB1-309.3	8/14/67
6-AB1-204	9/29/67	6-AB1-239	8/14/67	6-AB1-310	8/14/67
6-AB1-205	10/ 2/67	6-AB1-240	7/17/68	6-AB1-310.1	8/14/67
6-AB1-205.1	10/ 5/67	6-AB1-241	7/17/68	6-AB1-310.2	8/14/67
6-AB1-205.2	9/27/68	6-AB1-242	2/ 9/68	6-AB1-310.3	8/14/67
6-AB1-206	10/ 5/67	6-AB1-243	2/ 9/68	6-AB1-311	8/14/67
6-AB1-206.1	2/ 9/68	6-AB1-244	7/17/68	6-AB1-311.1	8/14/67
6-AB1-206.2	2/ 9/68	6-AB1-245	8/14/67	6-AB1-312	9/29/67
6-AB1-207	6/30/67	6-AB1-246	8/14/67	6-AB1-312.1	9/29/67
6-AB1-208	6/30/67	6-AB1-247	8/14/67	6-AB1-313	8/14/67
6-AB1-208.1	2/ 9/68	6-AB1-248	8/14/67	6-AB1-314	1/10/69
6-AB1-209	6/30/67	6-AB1-249	2/ 9/68	6-AB1-315	1/10/69
6-AB1-209.1	3/11/68	6-AB1-249.1	2/ 9/68	6-AB1-500*	12/ 8/67
6-AB1-209.2	2/ 9/68	6-AB1-250	2/ 9/68		
6-AB1-210	6/30/67	6-AB1-251	8/14/67		
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6-AB1-211*	11/17/67	6-AB1-253	8/14/67		
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6-AB1-216.1	2/ 9/68	6-AB1-261	2/ 9/68		
6-AB1-217	6/30/67	6-AB1-262	2/ 9/68		
6-AB1-217.1	2/ 9/68	6-AB1-263	2/ 9/68		
6-AB1-218	7/17/68	6-AB1-264	2/ 9/68		
6-AB1-219	10/ 7/68	6-AB1-266	2/ 9/68		
6-AB1-220	6/30/67	6-AB1-267	2/ 9/68		
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6-AB1-223	6/30/67	6-AB1-271	2/ 9/68		
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6-AB1-226	6/30/67	6-AB1-302	11/16/67		
6-AB1-227	6/30/67	6-AB1-303	7/17/68		
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6-AB1-229	2/ 9/68	6-AB1-305	8/ 5/67		
6-AB1-230	2/ 9/68	6-AB1-306	8/14/67		
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6-A82-	1	5/ 1/69	6-A82-	37	3/29/68	6-A82-	90.1	10/ 5/67	6-A82-	140	7/20/67	6-A83-	4	8/29/68
6-A82-	1.1	5/ 1/69	6-A82-	38	1/24/68	6-A82-	90.2	12/21/67	6-A82-	142	7/20/67	6-A83-	5	8/29/68
6-A82-	2	2/ 9/68	6-A82-	39	3/29/68	6-A82-	91	11/17/67	6-A82-	142.1	7/20/67	6-A83-	6	8/29/68
6-A82-	2.1	8/14/67	6-A82-	40	1/24/68	6-A82-	91.1	11/17/67	6-A82-	143	7/20/67	6-A83-	7	12/20/67
6-A82-	2.2	2/ 9/68	6-A82-	40.1	3/29/68	6-A82-	92	8/ 5/67	6-A82-	144	11/10/67	6-A83-	8	8/29/68
6-A82-	3	8/14/67	6-A82-	41	3/11/68	6-A82-	101	8/ 5/67	6-A82-	145	9/29/67	6-A83-	9	8/29/68
6-A82-	3.1	2/ 9/68	6-A82-	42	3/29/68	6-A82-	102	1/10/69	6-A82-	147	8/ 5/67	6-A83-	10	8/29/68
6-A82-	3.2	8/14/67	6-A82-	43	3/29/68	6-A82-	103	5/ 7/68	6-A82-	148	8/ 5/67	6-A83-	11	12/20/67
6-A82-	4	8/14/67	6-A82-	44	2/21/68	6-A82-	104	10/ 2/67	6-A82-	150	6/ 5/67	6-A83-	11.1	8/29/68
6-A82-	5	2/ 9/68	6-A82-	45	2/21/68	6-A82-	105	1/24/68	6-A82-	151	10/ 5/67	6-A83-	12	8/29/68
6-A82-	7	10/ 2/67	6-A82-	46	2/21/68	6-A82-	106	1/24/68	6-A82-	152	10/ 2/67	6-A83-	13	8/29/68
6-A82-	7.1	9/18/67	6-A82-	47	2/21/68	6-A82-	107	2/21/68	6-A82-	152.1	8/ 5/67	6-A83-	14	8/29/68
6-A82-	7.2	9/15/67	6-A82-	52	11/21/67	6-A82-	107.1	10/ 9/68	6-A82-	153	8/14/67	6-A83-	15	8/29/68
6-A82-	7.2*	12/21/67	6-A82-	53	11/21/67	6-A82-	107.2	9/25/68	6-A82-	153.1	8/14/67	6-A83-	16	8/29/68
6-A82-	7.3	9/18/67	6-A82-	54	11/21/67	6-A82-	107.3	9/25/68	6-A82-	154	10/ 2/67	6-A83-	17	8/29/68
6-A82-	7.4	11/10/67	6-A82-	55	8/29/68	6-A82-	107.4	9/25/68	6-A82-	155	8/ 5/67	6-A83-	18	8/29/68
6-A82-	7.4*	12/13/67	6-A82-	56	8/29/68	6-A82-	108	8/14/67	6-A82-	156	6/ 5/67	6-A83-	19	8/29/68
6-A82-	7.5	11/10/67	6-A82-	57	11/21/67	6-A82-	109	12/21/67	6-A82-	156*	11/17/67	6-A83-	20	8/29/68
6-A82-	7.5*	12/21/67	6-A82-	58	12/21/67	6-A82-	110	VOID	6-A82-	157	2/ 9/68	6-A83-	20.1	8/29/68
6-A82-	7.6	10/ 5/67	6-A82-	59	8/17/68	6-A82-	111	11/10/67	6-A82-	158	5/ 7/68	6-A83-	21	8/29/68
6-A82-	8	10/31/67	6-A82-	60	11/21/67	6-A82-	111.1	11/10/67	6-A82-	160	8/14/67	6-A83-	22	8/29/68
6-A82-	8.1	11/10/67	6-A82-	61	11/21/67	6-A82-	111.2	11/10/67	6-A82-	162	2/ 9/68	6-A83-	23	8/29/68
6-A82-	8.2	10/ 2/67	6-A82-	62	11/21/67	6-A82-	112	VOID	6-A82-	163	8/14/67	6-A83-	24	8/29/68
6-A82-	8.3	10/31/67	6-A82-	73	8/14/67	6-A82-	113	1/24/68	6-A82-	164	10/ 5/67	6-A83-	25	8/29/68
6-A82-	8.4	10/ 2/67	6-A82-	73.1	8/ 5/67	6-A82-	114	8/14/67	6-A82-	165	8/ 5/67	6-A83-	30	12/20/67
6-A82-	9	2/ 9/68	6-A82-	73.2	8/14/67	6-A82-	114.1	2/ 9/68	6-A82-	166	8/ 5/67	6-A83-	31	12/20/67
6-A82-	10	2/ 9/68	6-A82-	73.5	10/ 5/67	6-A82-	116	11/22/68	6-A82-	167	8/ 5/67	6-A83-	32	12/20/67
6-A82-	11	2/ 9/68	6-A82-	74	11/17/67	6-A82-	117	2/21/68	6-A82-	168	9/29/67	6-A83-	33	1/24/68
6-A82-	11.1	2/ 9/68	6-A82-	75	1/24/68	6-A82-	118	12/21/67	6-A82-	169	8/14/67	6-A83-	34	8/17/68
6-A82-	12	2/ 9/68	6-A82-	75.1	1/24/68	6-A82-	119	VOID	6-A82-	170	8/14/67	6-A83-	35	8/17/68
6-A82-	13	7/28/67	6-A82-	76	9/15/67	6-A82-	120	10/ 5/67	6-A82-	171	8/14/67	6-A83-	36	8/17/68
6-A82-	13.1	1/24/68	6-A82-	77	8/ 5/67	6-A82-	121	11/10/67	6-A82-	172	8/14/67	6-A83-	37	1/10/69
6-A82-	13.2	9/15/67	6-A82-	77.1	8/14/67	6-A82-	122	2/21/68	6-A82-	173	8/14/67	6-A83-	38	1/10/69
6-A82-	13.3	11/16/67	6-A82-	78	10/ 2/67	6-A82-	123	10/31/67	6-A82-	174	6/14/67			
6-A82-	13.3*	12/13/67	6-A82-	80	10/ 2/67	6-A82-	123.1	7/17/68	6-A82-	175	7/17/68			
6-A82-	13.4	11/10/67	6-A82-	80.5	10/ 5/67	6-A82-	124	10/ 2/67	6-A82-	176	2/21/68	6-A84-	1	5/ 1/69
6-A82-	13.4*	12/13/67	6-A82-	81	9/18/68	6-A82-	125	8/ 5/67	6-A82-	177	2/ 9/68	6-A84-	2	12/20/67
6-A82-	13.5	10/ 5/67	6-A82-	82	10/ 2/67	6-A82-	126	11/23/67	6-A82-	178	4/17/68	6-A84-	3	11/29/68
6-A82-	13.6	10/31/67	6-A82-	83	8/ 5/67	6-A82-	128	11/23/67	6-A82-	179	4/17/68	6-A84-	4	12/20/67
6-A82-	13.7	11/16/67	6-A82-	83.1	7/17/68	6-A82-	130	9/15/67	6-A82-	180	7/17/68	6-A84-	5	11/29/68
6-A82-	14	VOID	6-A82-	84	10/ 2/67	6-A82-	131	8/ 5/67	6-A82-	181	1/10/69	6-A84-	6	11/29/68
6-A82-	15	1/10/69	6-A82-	85	10/ 2/67	6-A82-	132	10/ 5/67	6-A82-	183	7/17/68	6-A84-	7	12/20/67
6-A82-	25	11/ 7/67	6-A82-	85.1	9/25/68	6-A82-	133	1/24/68	6-A82-	184	11/22/68	6-A84-	8	11/29/68
6-A82-	30	12/18/67	6-A82-	85.2	9/25/68	6-A82-	134	9/29/67	6-A82-	197	8/29/68	6-A84-	9	8/29/68
6-A82-	31	12/18/67	6-A82-	86	9/15/67	6-A82-	135	6/30/67	6-A82-	198	10/ 2/67	6-A84-	10	11/29/68
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6-A82-	33	1/24/68	6-A82-	87	10/ 2/67	6-A82-	137	10/ 5/67				6-A84-	12	11/29/68
6-A82-	34	1/24/68	6-A82-	88	10/ 2/67	6-A82-	138	9/15/67	6-A83-	1	5/ 1/69	6-A84-	13	11/29/68
6-A82-	35	1/24/68	6-A82-	89	10/ 2/67	6-A82-	139	7/20/67	6-A83-	2	8/29/68	6-A84-	14	VOID
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6-AB4- 23	12/20/67	6-AB5- 35	9/29/67	6-AB5- 74	9/29/67	6-AB6 - 3	6/12/67
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		6-AB5- 38	12/14/67	6-AB5- 77	10/31/67	6-AB6 - 6	2/12/68
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6-AB5- 2	9/29/67	6-AB5- 40	12/14/67	6-AB5- 78	10/31/67	6-AB6 - 8	3/11/68
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6-AB5- 6	8/14/67	6-AB5- 44	10/31/67	6-AB5- 81	9/29/67	6-AB7- 2.1	8/ 5/67
6-AB5- 6.1	3/13/68	6-AB5- 45	9/29/67	6-AB5- 82	10/31/67	6-AB7- 2.2	9/15/67
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6-AB5- 7.3	3/13/68	6-AB5- 49	9/15/67	6-AB5- 84	10/31/67	6-AB7- 2.6	1/24/68
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6-AB5- 10.2	8/14/67	6-AB5- 50.2	9/15/67	6-AB5- 87	9/29/67	6-AB7- 2.10	7/17/68
6-AB5- 10.3	8/14/67	6-AB5- 51	10/31/67	6-AB5- 88	9/29/67	6-AB7- 2.11	9/27/68
6-AB5- 10.4	8/14/67	6-AB5- 51.1	9/29/67	6-AB5- 89	9/29/67	6-AB7- 3	2/ 9/68
6-AB5- 10.5	8/14/67	6-AB5- 52	9/15/67	6-AB5- 90	9/29/67	6-AB7- 4	2/ 9/68
6-AB5- 10.6	2/ 9/68	6-AB5- 53	9/15/67	6-AB5- 91	9/29/67	6-AB7- 5	5/ 7/68
6-AB5- 10.7	2/ 9/68	6-AB5- 53.1	9/15/67	6-AB5- 92	9/29/67	6-AB7- 5.1	2/ 9/68
6-AB5- 10.8	2/ 9/68	6-AB5- 54	10/31/67	6-AB5- 93	9/29/67	6-AB7- 5.2	2/ 9/68
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6-AB5- 10.10	3/13/68	6-AB5- 55.1	10/31/67	6-AB5- 95	8/14/67	6-AB7- 7	12/21/67
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6-AB5- 11.1	3/13/68	6-AB5- 56	9/15/67	6-AB5- 97	1/24/68	6-AB7- 9	12/21/67
6-AB5- 11.2	3/13/68	6-AB5- 57	10/31/67	6-AB5- 97.1	1/24/68		
6-AB5- 11.3	3/13/68	6-AB5- 57.1	10/31/67	6-AB5- 98	2/21/68		
6-AB5- 11.4	3/13/68	6-AB5- 58	10/31/67	6-AB5- 99	2/21/68		
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6-AB5- 13	9/29/67	6-AB5- 59.1	9/15/67	6-AB5-101	2/21/68		
6-AB5- 13.1	8/14/67	6-AB5- 60	10/31/67	6-AB5-102	11/17/67		
6-AB5- 14	8/14/67	6-AB5- 61	9/29/67	6- B5-103	3/11/68		
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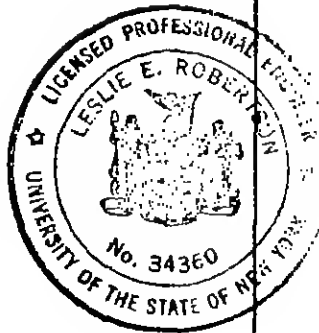
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6-AB1-211*	ALTERNATE		6-AB1-253	DETAIL	755			
6-AB1-211.1	DETAIL	705	6-AB1-254	DETAIL	756			



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Structural & Civil Engineers

PROJECT

THE WORLD TRADE CENTER

TITLE

DRAWING BOOK 6

DATE

DIVISIONS

6-AB1-

Connection Details 200-399 & 700-799
(See 6-AB1-0 for index)

6-AB6- & 6-B6-

Interior Columns to Floor 1
(See 6-AB6-1 for index)

6-AB2-

Connection Details 100-199 & 400-599
(See 6-AB2-0 for index)

6-AB7-

Anchors to Slabs
(See 6-AB7-0 for index)

6-AB3-

Horizontal Bracing & Bridging Details
Beam Framed Floors
(See 6-AB3-0 for index)

6-AB8-

Perimeter Core Truss Seats &
Shear Studs
(See 6-AB8-1 for index)

6-AB4-

Louver Wall Struts
(See 6-AB4-0 for index)

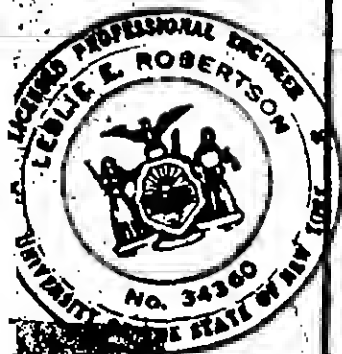
6-AB9-

Temporary Framing for Elevator 6 & 7
(See 6-AB9-0 for index)

6-AB5-

Vertical Bracing
(See 6-AB5-0 for index)

Note: See 6-AB0 -
for latest date
for each page



PROJECT **THE WORLD TRADE CENTER**

TITLE

CONNECTION DETAILS - GENERAL NOTESDATE **7-5-67**

REVISIONS

7-28-67

1. DIMENSIONS

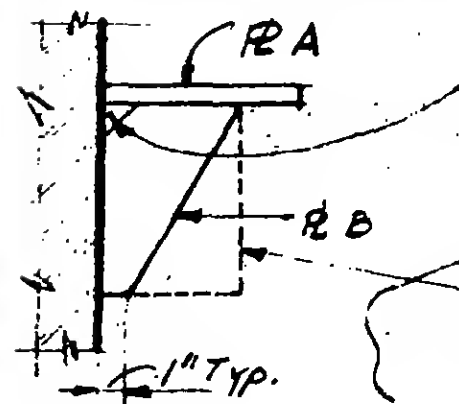
- All beam reference centerlines and column reference face or center lines are located in the plans.
- Elevation of top of steel is shown in the plans. See Beam Types (5AB2) for location on beam of reference top of steel.
- Where a dimension is shown in the drawings from the centerline of a beam or column it shall be considered to be from the reference centerline of the beam or column. Where a dimension is shown from the face of a column, it shall be considered to be from the theoretical face of the column. The theoretical face of the column is located from the reference centerline of the column by a distance equal to one half of the scheduled column width or depth.

2. CONNECTION PLATES

- Where connection plate dimensions are not shown in the drawings, plate dimensions shall be determined by providing standard AISC edge distances with the indicated bolt spacing.
- Use standard gauge for all bolts in beams unless otherwise shown in the drawings, or approved by the Engineer.
- The bolt pattern is the same for the top and bottom R's of a connection unless otherwise shown in the drawings.

3. BOLTED CONNECTIONS

- All bolted connections shall be friction type connections except where specifically noted in the drawings.
- All bolts shall be ASTM A325 bolts, except in locations where ASTM A490 or A307 bolts are specifically called for in the drawings.
- Bolted connections shall have a minimum of 2-3/4" bolts except where specifically noted in the drawings.

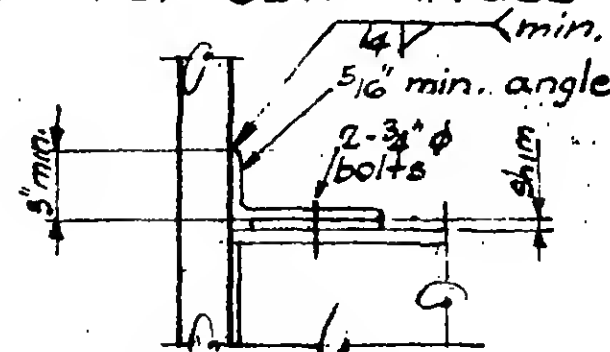
4. STIFFENED SEATS

Where R A is welded to the column with complete penetration weld, snipe corner of R B to clear weld.

Where R B is shown in the drawings with a square cut, sloped cut as shown may be supplied.

5. MATERIALS

- All connection plates, angles and other detail material shall conform to ASTM A36, unless another type of steel is specifically noted in the drawings.
- All manual welding electrodes shall be E70XX low hydrogen electrodes unless otherwise shown in the drawings.

6. TOP CLIP ANGLES

This detail shall be used where top clip angles are indicated in the drawings but not sized.



G-ABJ-1

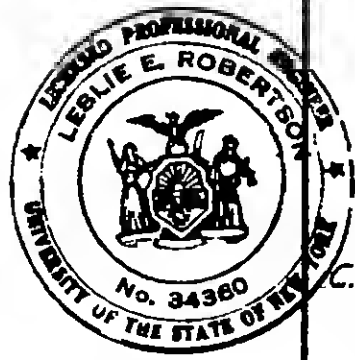
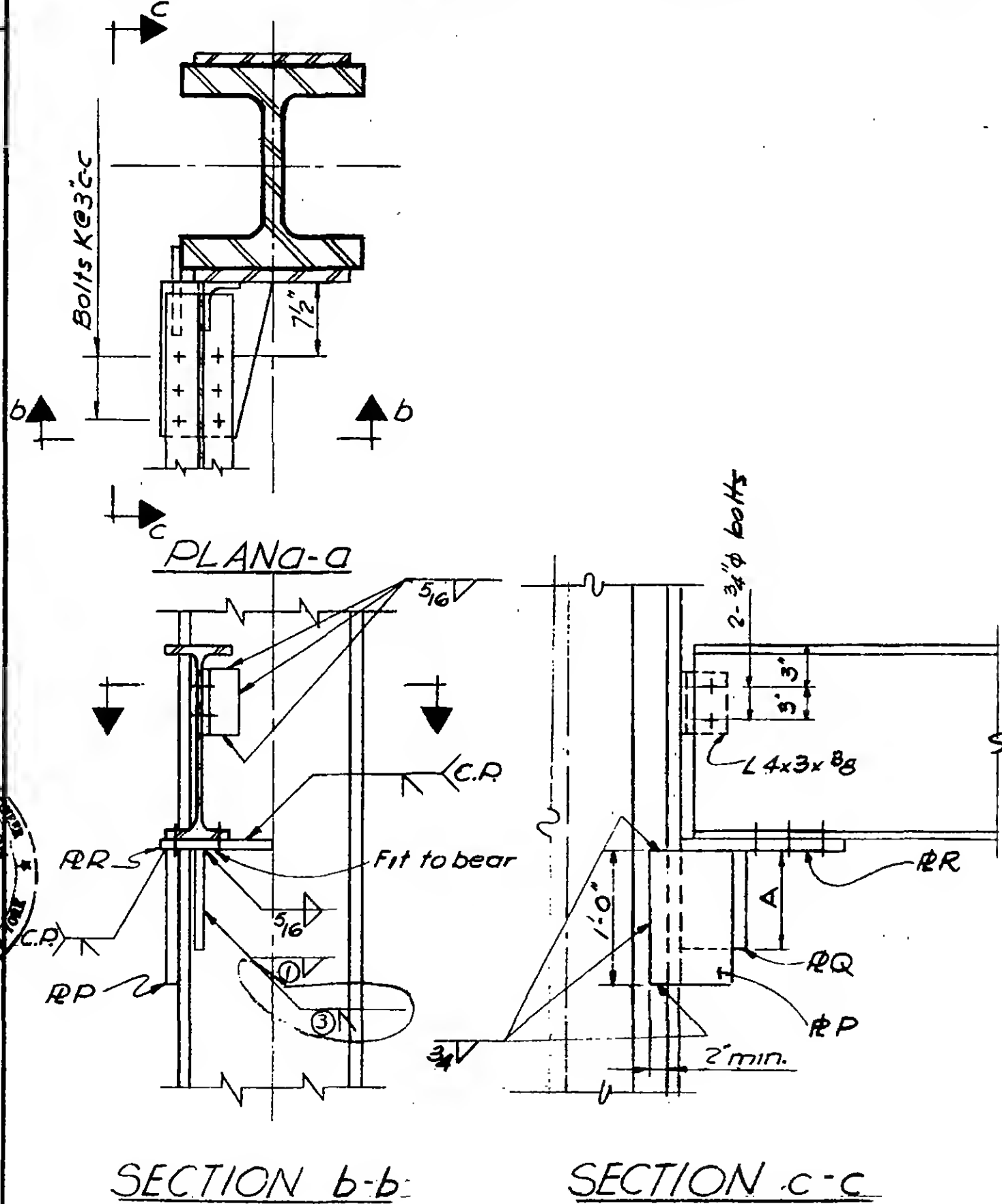
PROJECT **THE WORLD TRADE CENTER**

TITLE **CONNECTION DETAIL 201 A,B,C,D**

DATE **5-1-67**

REVISIONS

6-19-67
7-28-67
12-21-67



PROJECT THE WORLD TRADE CENTER

TITLE SCHEDULE FOR DETAIL 201 A-F

DATE 7-28-67

REVISIONS

8-5-67

9-15-67

12-21-67

REF. DWG	G-ABI-2	G-ABI-2	G-ABI-2	G-ABI-2	G-ABI-2.2	G-ABI-2.2
	201 A	201 B	201 C	201 D	201 E	201 F
PLATES						
P	8" x 7 1/8"	8" x 7 1/8"	8" x 7 1/8"	8" x 7 1/8"	1/2"	5/8"
Q	5" x 3 1/8"	5" x 3 1/8"	5" x 3 1/8"	6" x 3 1/8"	1/2"	—
R	10 1/2" x 1/2"	10 1/2" x 1/2"	10 1/2" x 1/2"	10 1/2" x 1/2"	—	—
DIMENSIONS						
A	0'-6"	0'-9"	0'-10"	1'-2"	0'-10"	—
B	—	—	—	—	0'-5"	—
BOLTS						
K	6-7/8" φ	6-7/8" φ	6-7/8" φ	6-7/8" φ	4-3/4" φ	4-7/8" φ
L	—	—	—	—	2-3/4" φ	—
WELDS						
①	—	—	—	—	1/4	—
②	—	—	—	—	5/16	—
③	C.P.	C.P.	C.P.	C.P.	—	—
ANGLES						
R	—	—	—	—	3 1/2 x 3 1/2 x 5/16	—

G-ABI-2.1



PROJECT THE WORLD TRADE CENTER TITLE

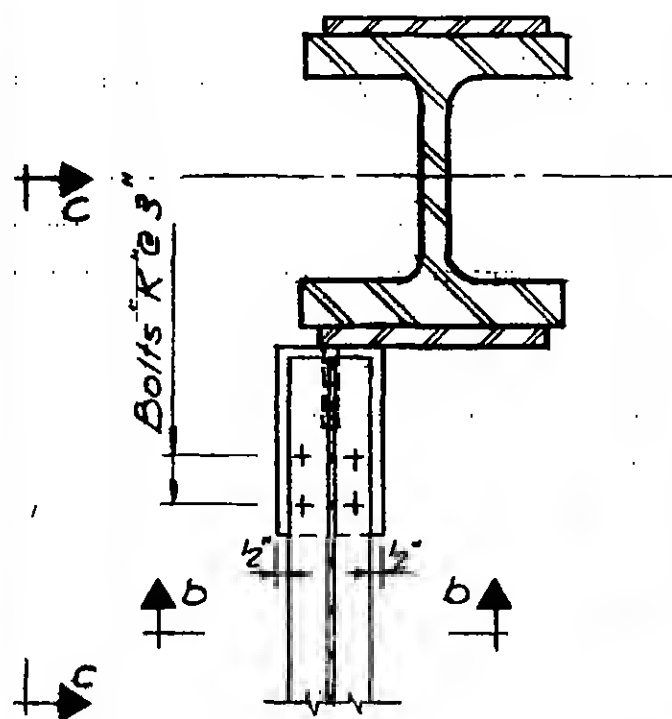
CONNECTION DETAIL 201 E, F, G, H, I DATE 10-5-67

REVISIONS

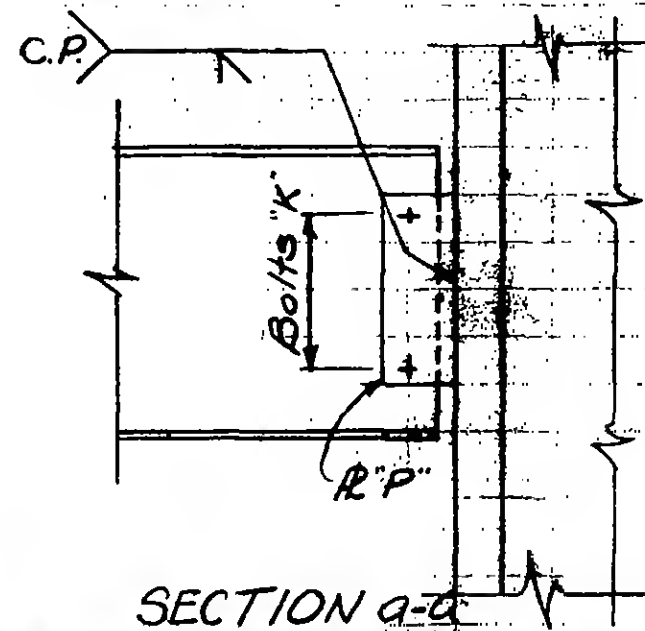
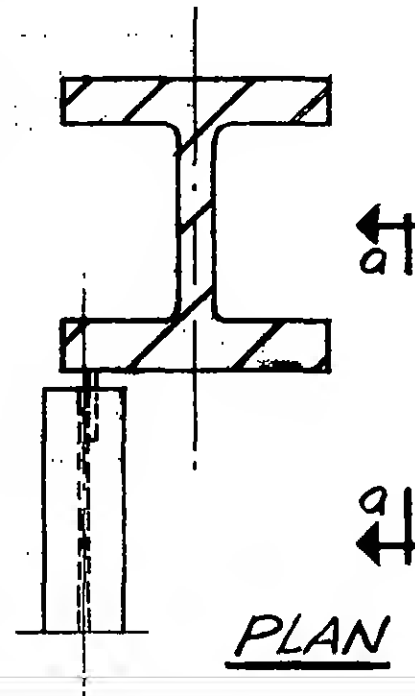
9-13-67

10-2-67

10-5-67

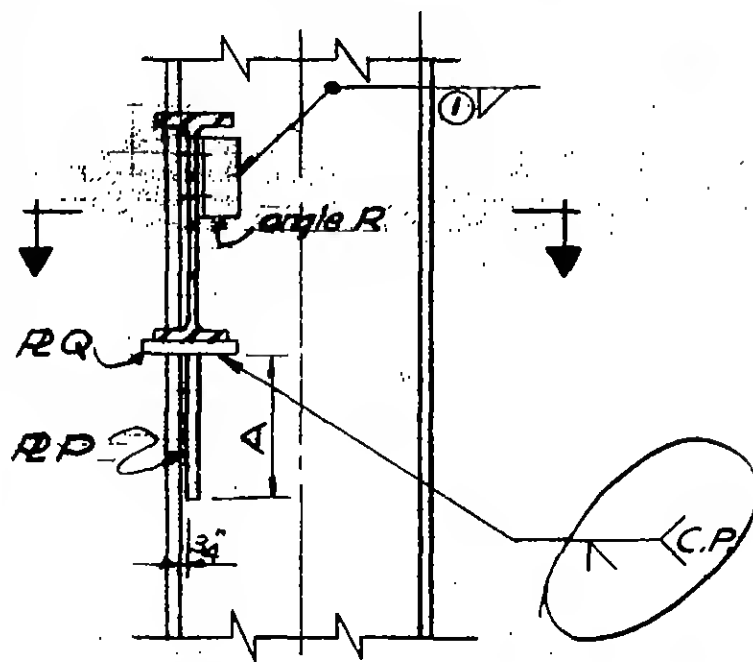


Plan a-a

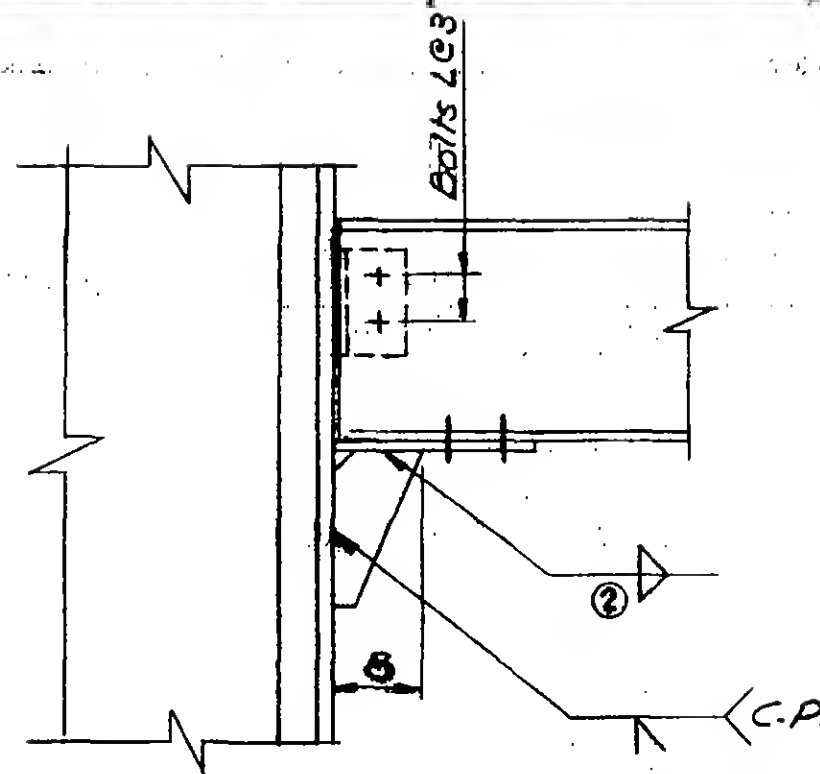


SECTION a-a

DETAIL 201 F, G, H, I, P, Q



Section b-b



Section c-c

DETAIL 201 E



Structural & Civil Engineers

DATE SCHEDULE FOR DETAIL 201 G, H, J, K, L

DATE 9-15-67

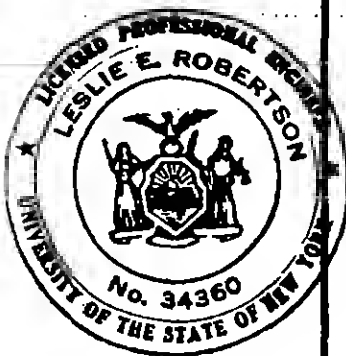
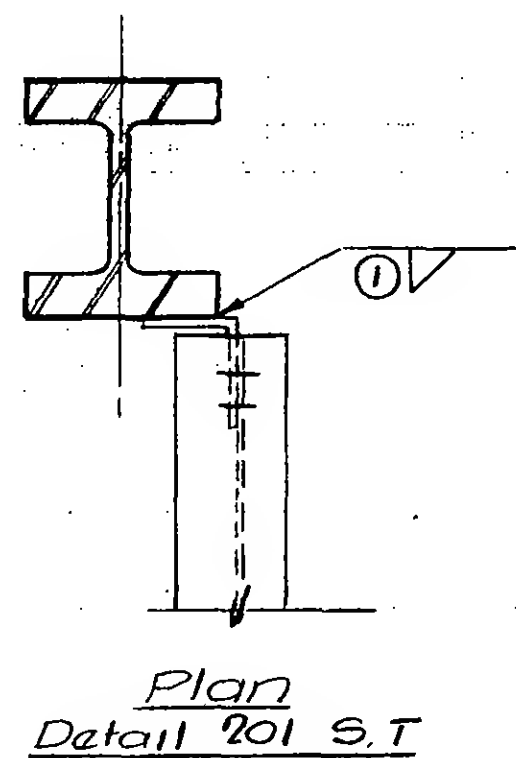
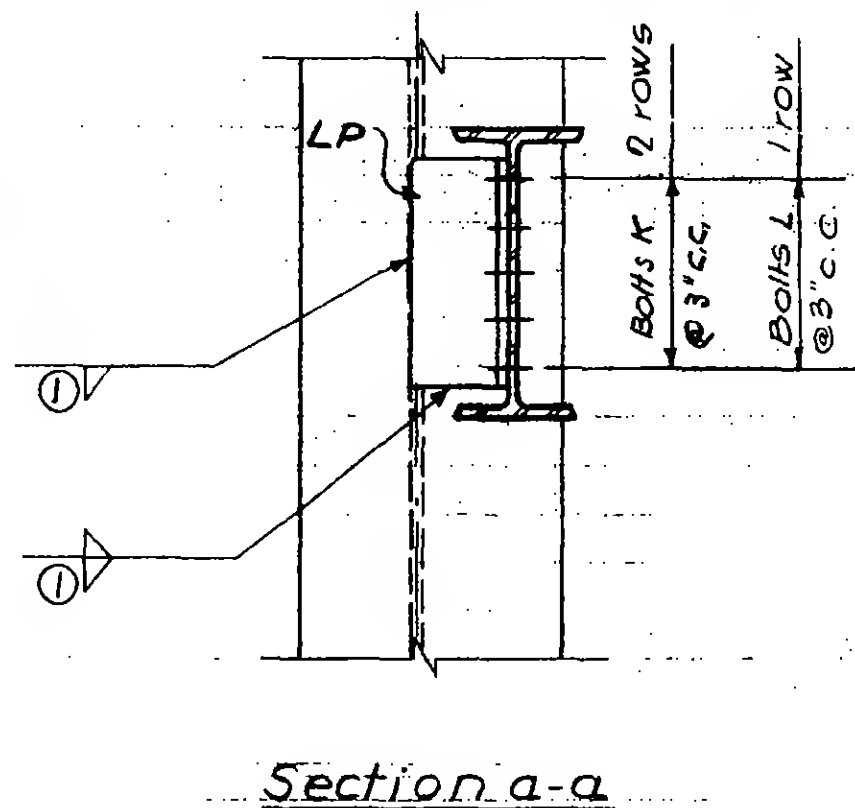
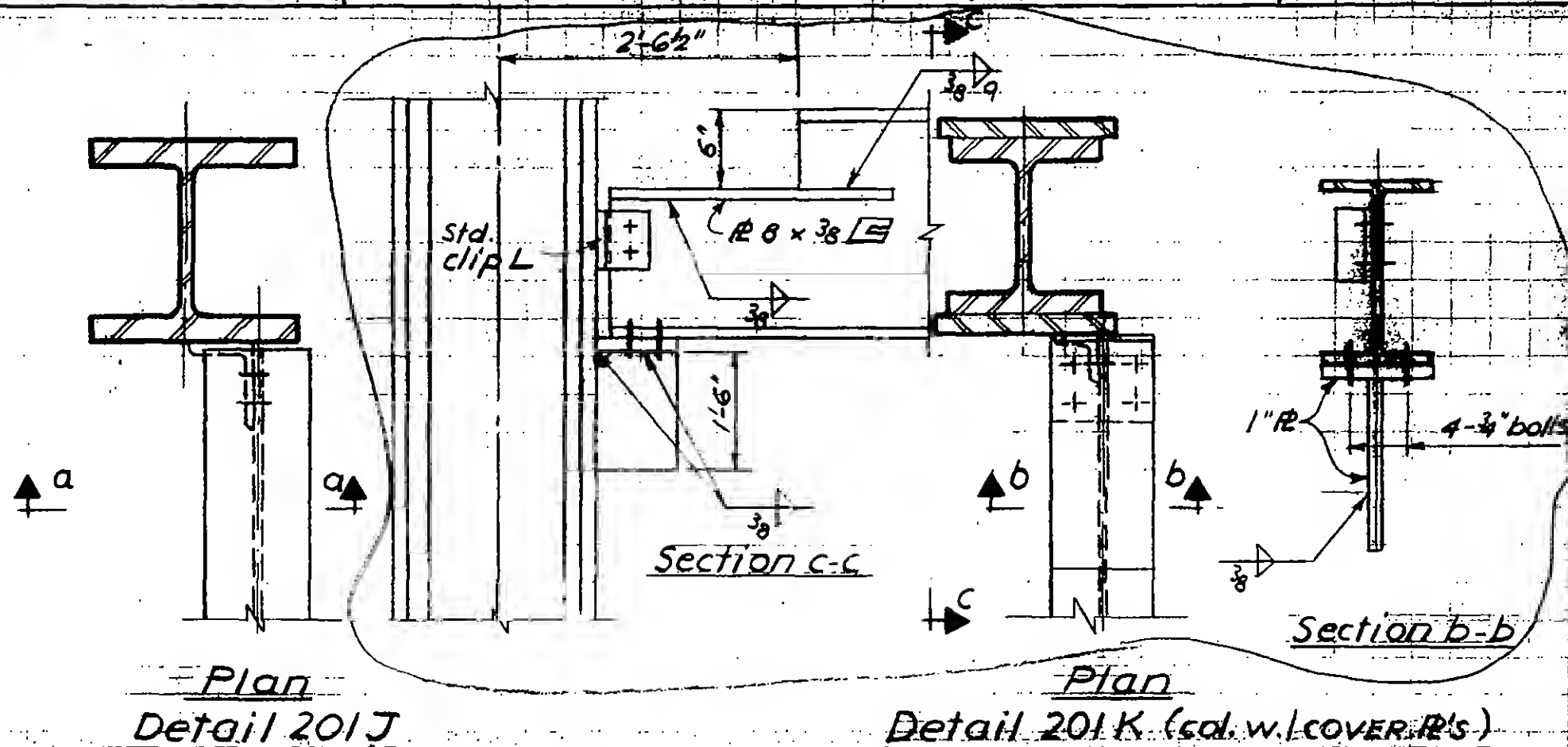
10-2-67

10-5-67

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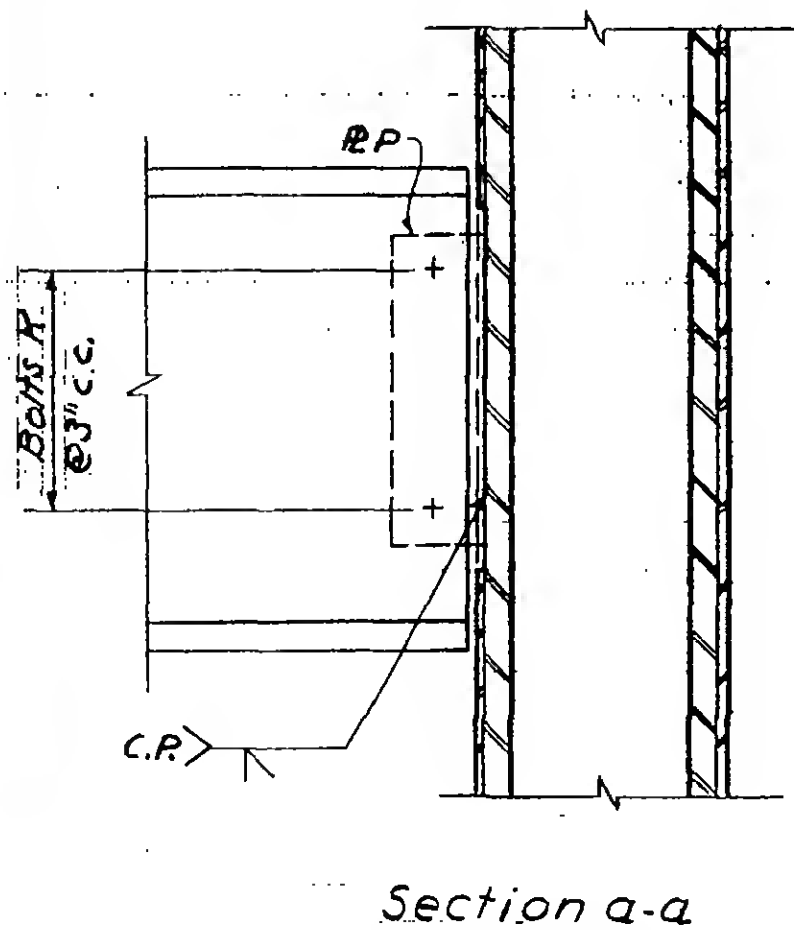
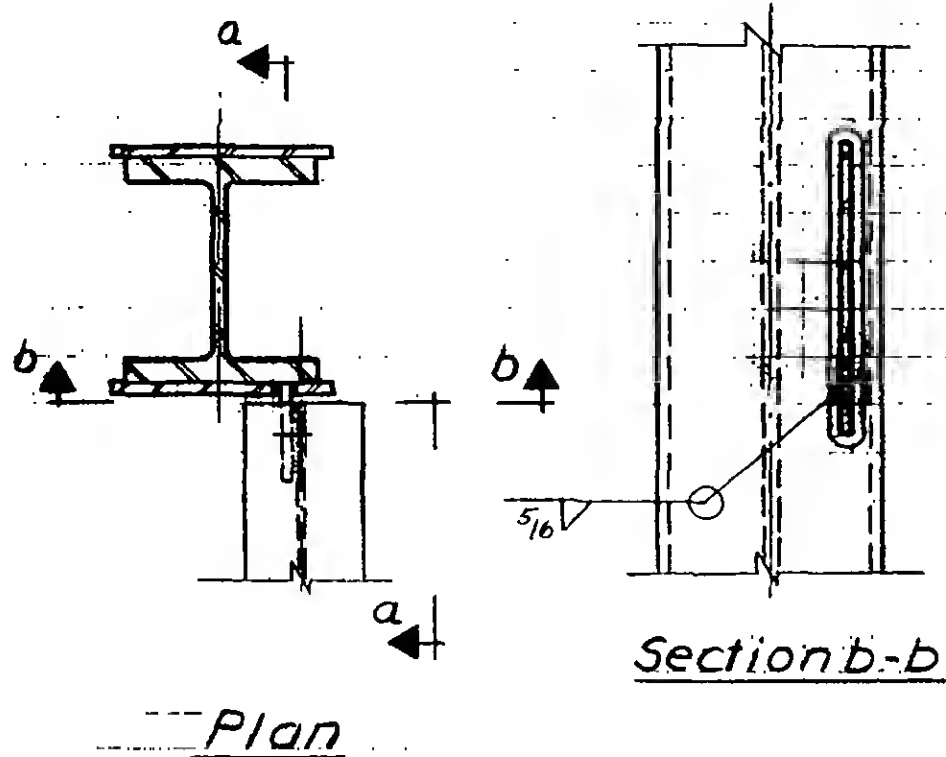
REVISIONS

10-5-67
9-25-68

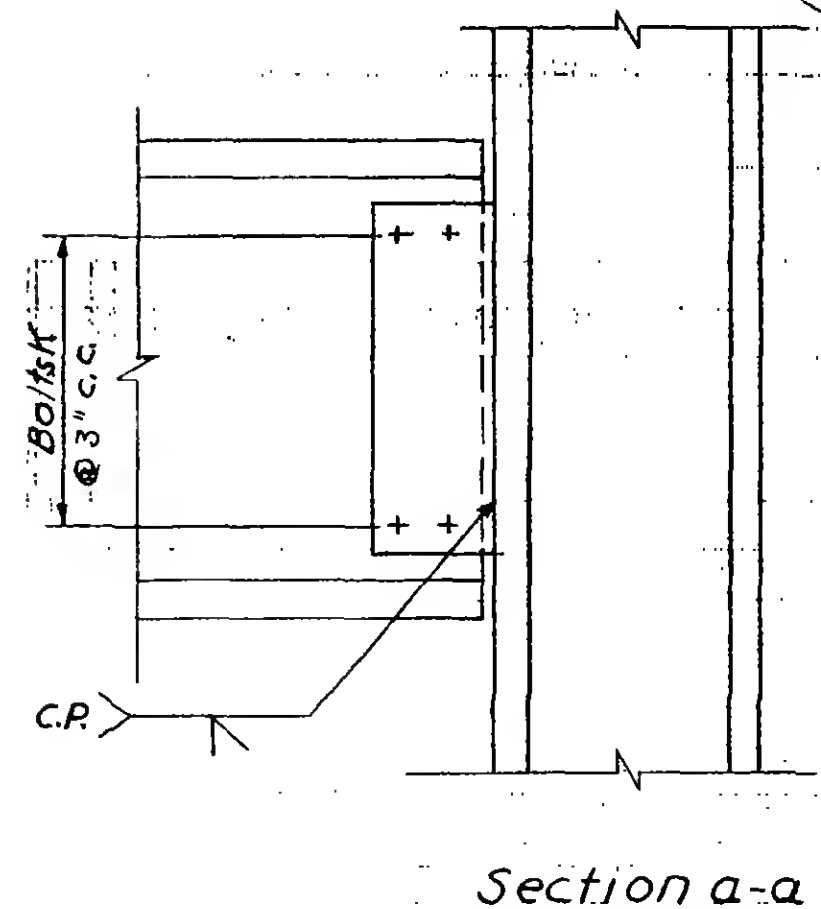
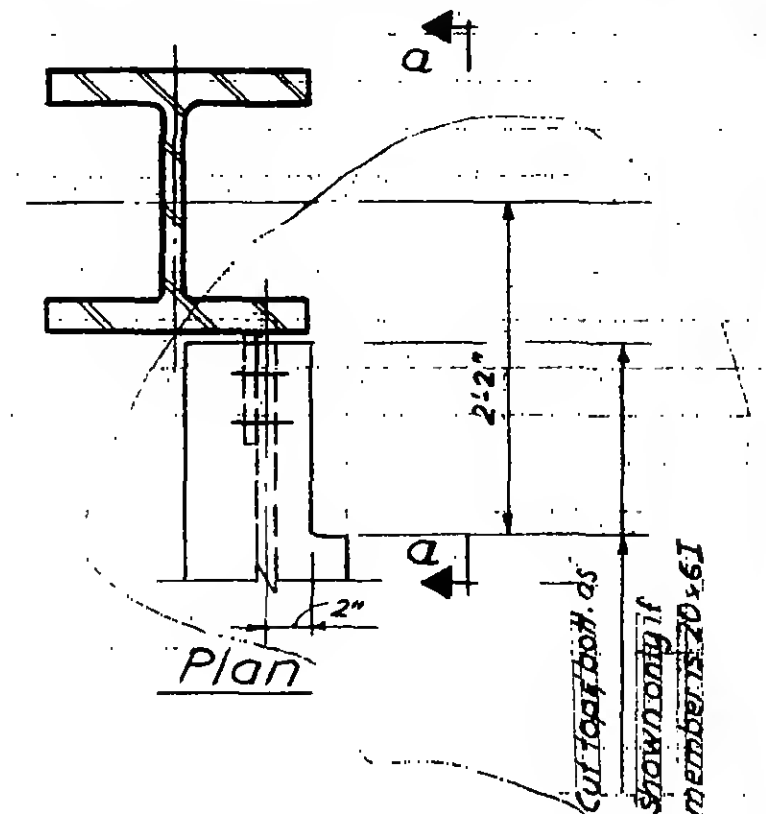


REVISIONS

10-31-67



Detail 201L



Details 201 M&R



PROJECT THE WORLD TRADE CENTER

TITLE CONNECTION DETAIL

202 A, B, C, D, E, F, G

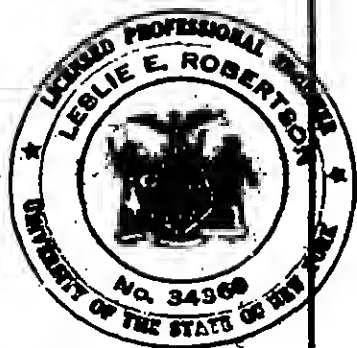
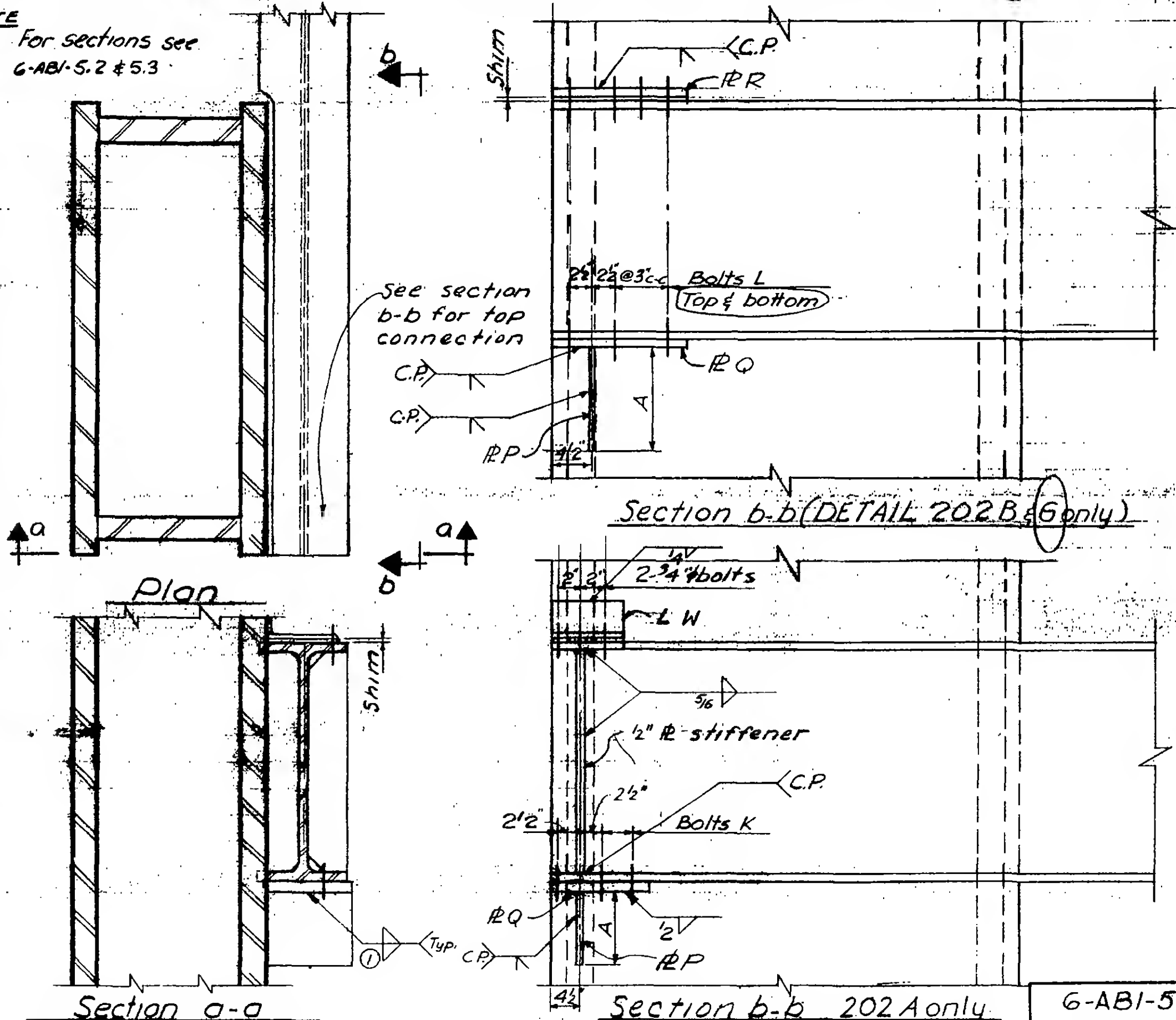
DATE 5-22-67

REVISIONS

7-25-67
8-5-67
8-14-67
9-15-67
10-2-67
12-21-67

NOTE

For sections see
G-ABI-5.2 & 5.3



6-ABI-5

PROJECT

THE WORLD TRADE CENTER

TITLE

SCHEDULE FOR DETAIL 202 A,B,C,D,E,F

DATE

8-5-67

REVISIONS

8-14-67

9-15-67

10-2-67

11-10-67

REF. DWG.	6-ABI-5	6-ABI-5	6-ABI-5.2	6-ABI-5.2	6-ABI-5.3	6-ABI-5.3
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	202A	202B	202C	202D	202E	202F
--	------	------	------	------	------	------

PLATES

P	5/8"	5/8"	3/4"	—	—	—
Q	5/8"	3/4"	3/4"	—	—	—
R	—	3/4"	—	—	—	—
S	—	—	1"	1"	3/4"	1"
T	—	—	1"	1"	3/4"	1"
U	—	—	1/2"	3/8"	3/8"	3/8"
V	—	—	—	—	1/2"	3/4"

DIMENSIONS

A	1'-4"	1'-4"	0'-9"	—	—	—
B	—	—	1'-3"	1'-6"	1'-3"	1'-8"
C	—	—	2'-0"	2'-0"	2'-9"	3'-0"

BOLTS

K	3-3/4"φ	—	2-3/4"φ	—	—	—
L	—	4-3/4"φ	—	16-1 1/8"φ	—	—
M	—	—	7-1"φ	7-1"φ	9-1 1/8"φ(A490)	11-1 1/8" (A490)

ANGLES

N	5x3x5/16x0-5 1/2"	—	—	—	—	—
---	-------------------	---	---	---	---	---

WELDS

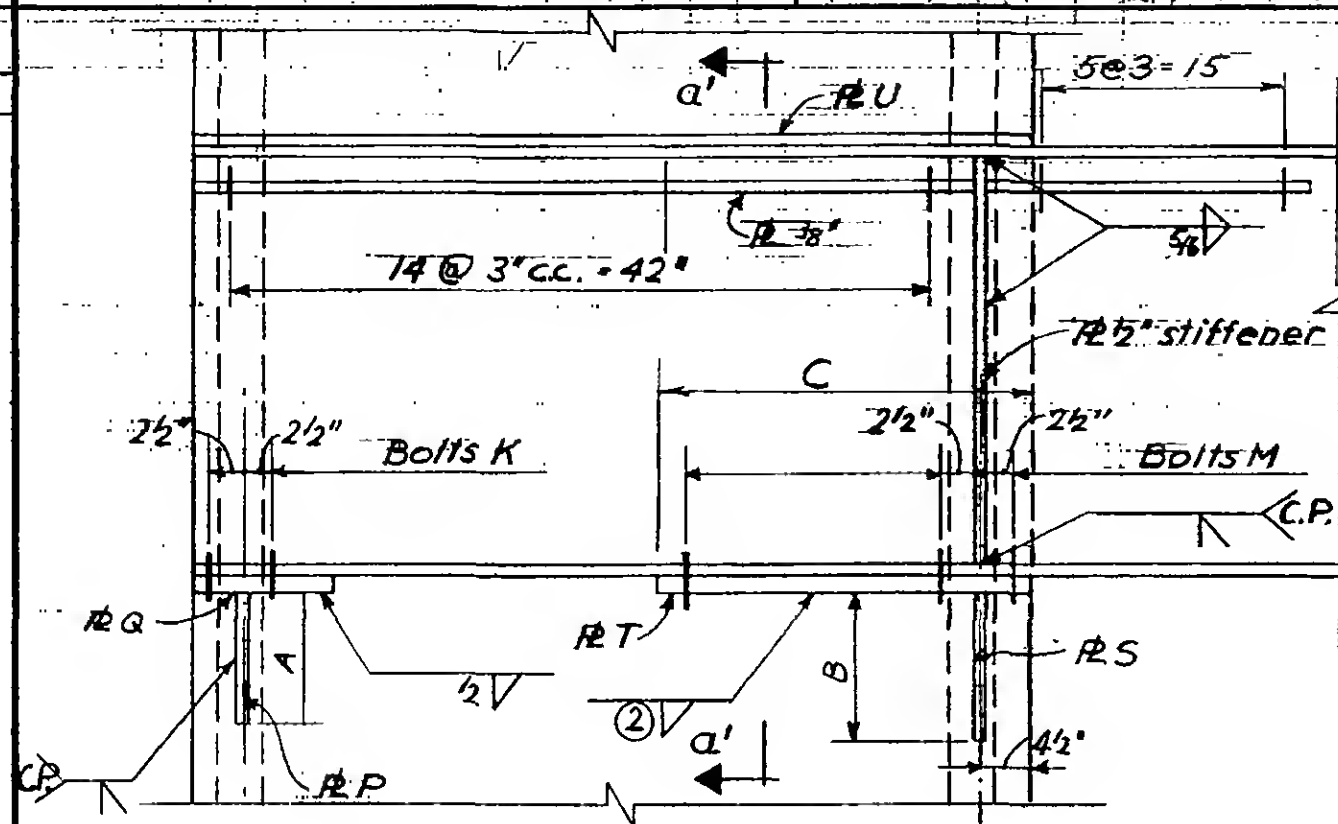
①	5/16"	5/16"	1/2"	1/2"	—	—
②	—	—	1/2"	—	—	—

6-ABI-5.1

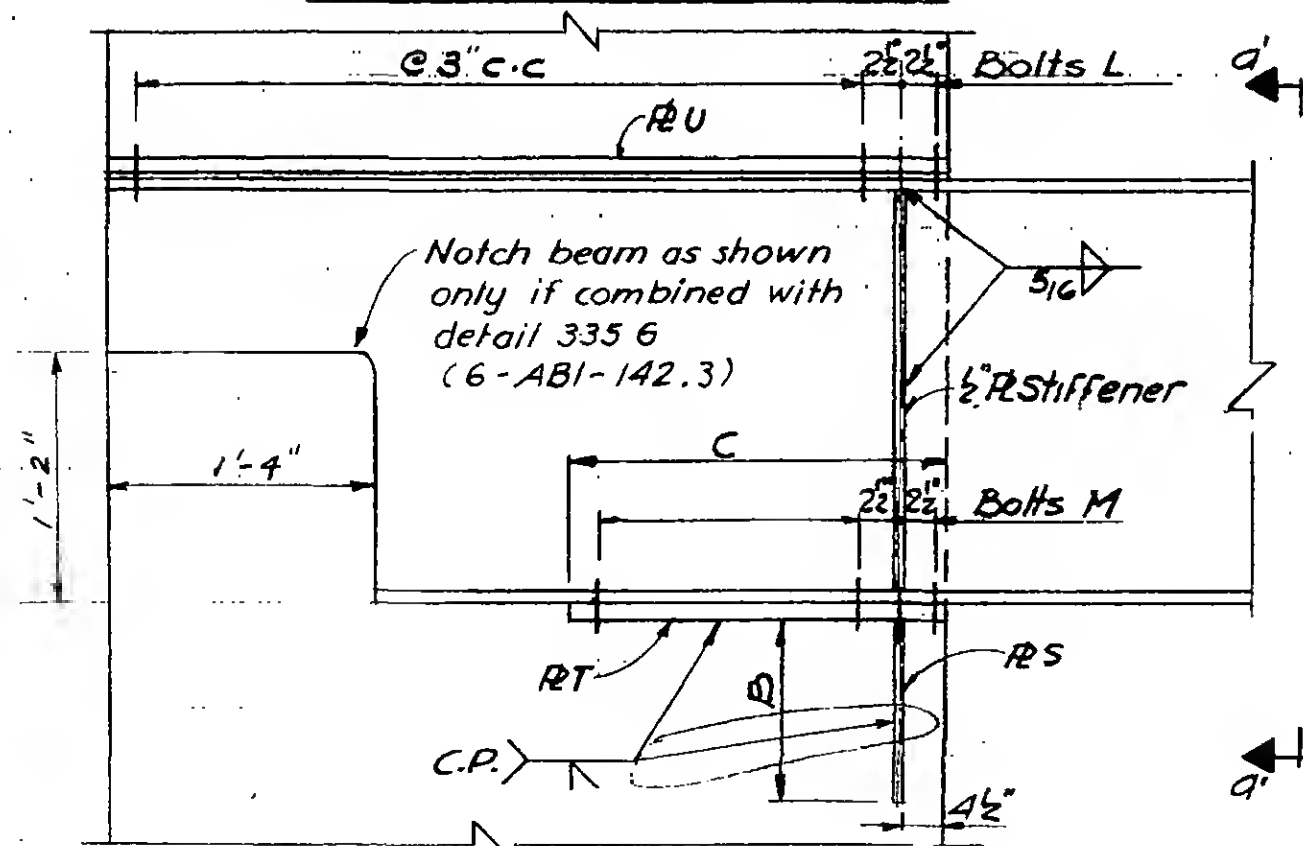


REVISIONS

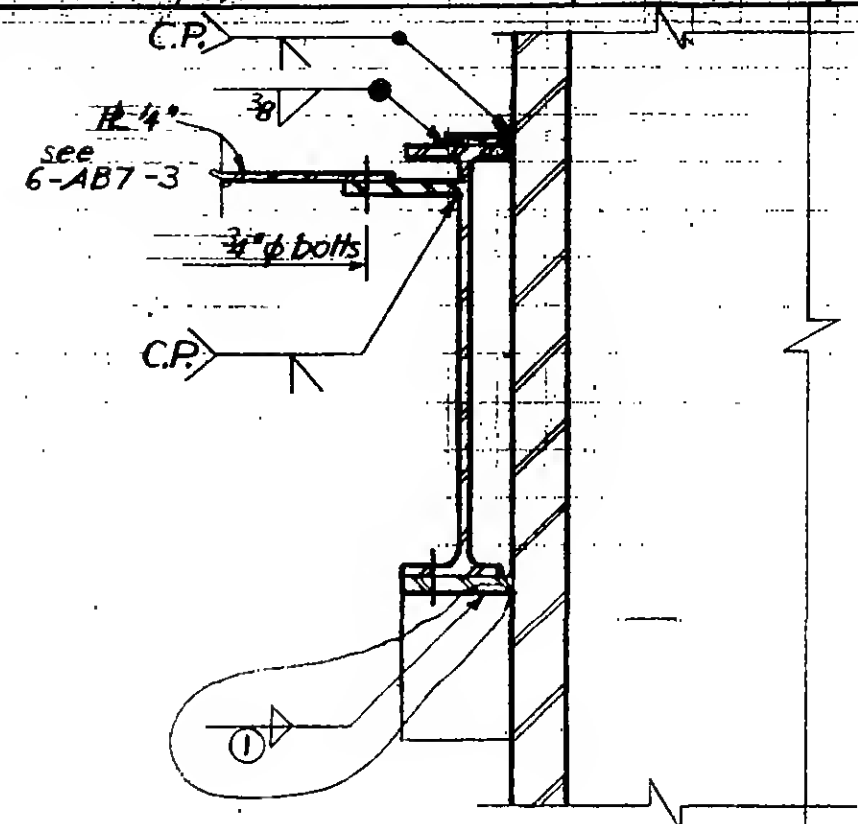
11-23-67



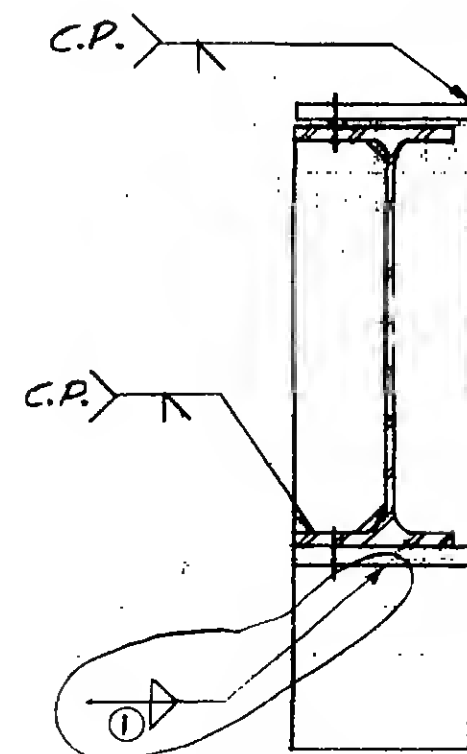
Section b-b, 202 C only



Section b-b, 202 D



Section a'-a'



Section 'a'-a'

6-ABI-5,2



PROJECT

THE WORLD TRADE CENTER

TITLE

CONNECTION DETAIL 202 E & F

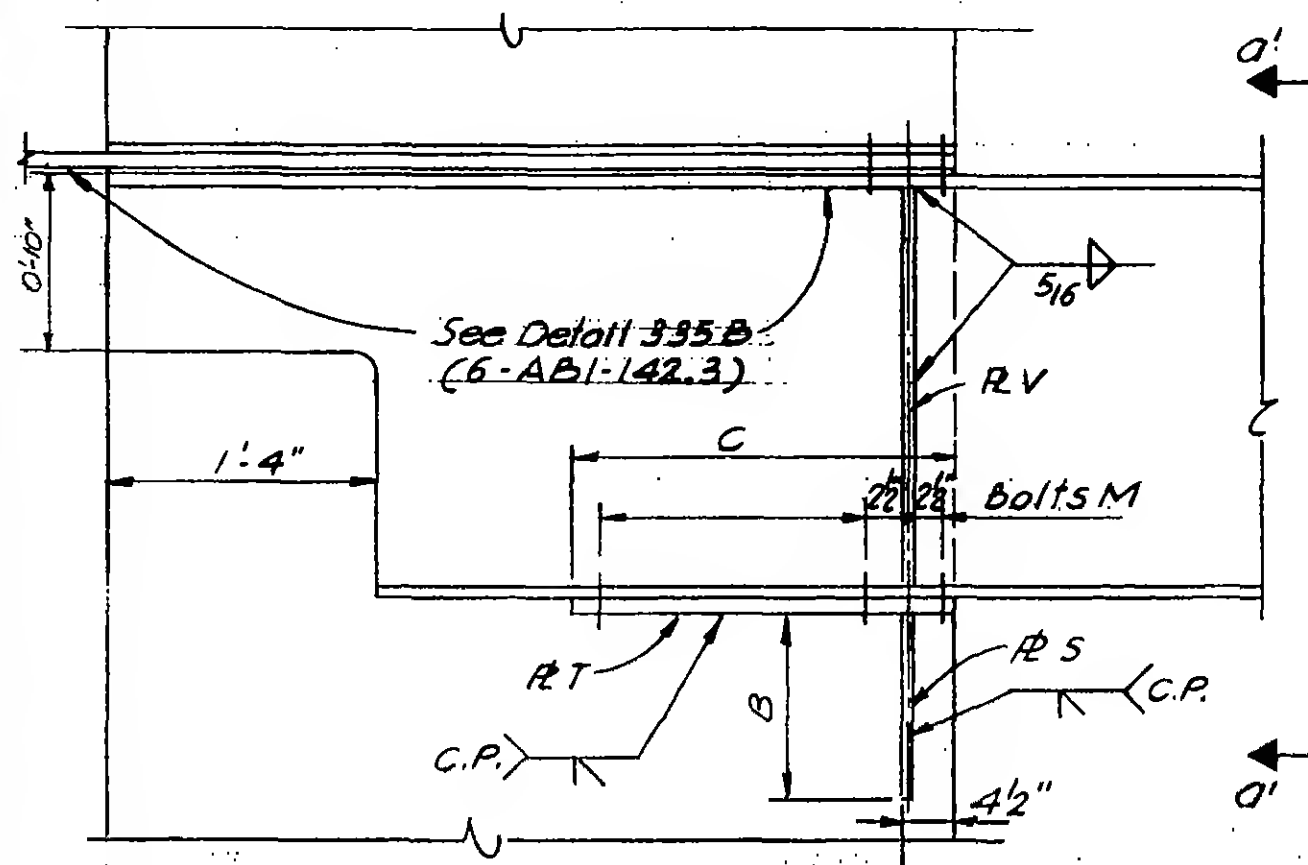
DATE

9-15-67

REVISIONS

10-2-67

11-10-67

1/4" R, See
Chap. 6-AB7-2.2

C.P.

Section a-a'Section b-b, 202 E & F

(See dwg. 6-AB1-5 for plan)



6-AB1-5.3

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PROJECT

THE WORLD TRADE CENTER

TITLE

SCHEDULE FOR DETAIL 202 6

DATE

12-21-67

REVISIONS

REF. DWG.

6-ABI-5

202 6

PLATES

P

1"

Q

1"

R

3/4"

S

—

T

—

U

—

DIMENSIONS

A

0'-10 1/2"

B

—

BOLTS

L

5 - 7/8" ϕ

M

—

WELDS

①

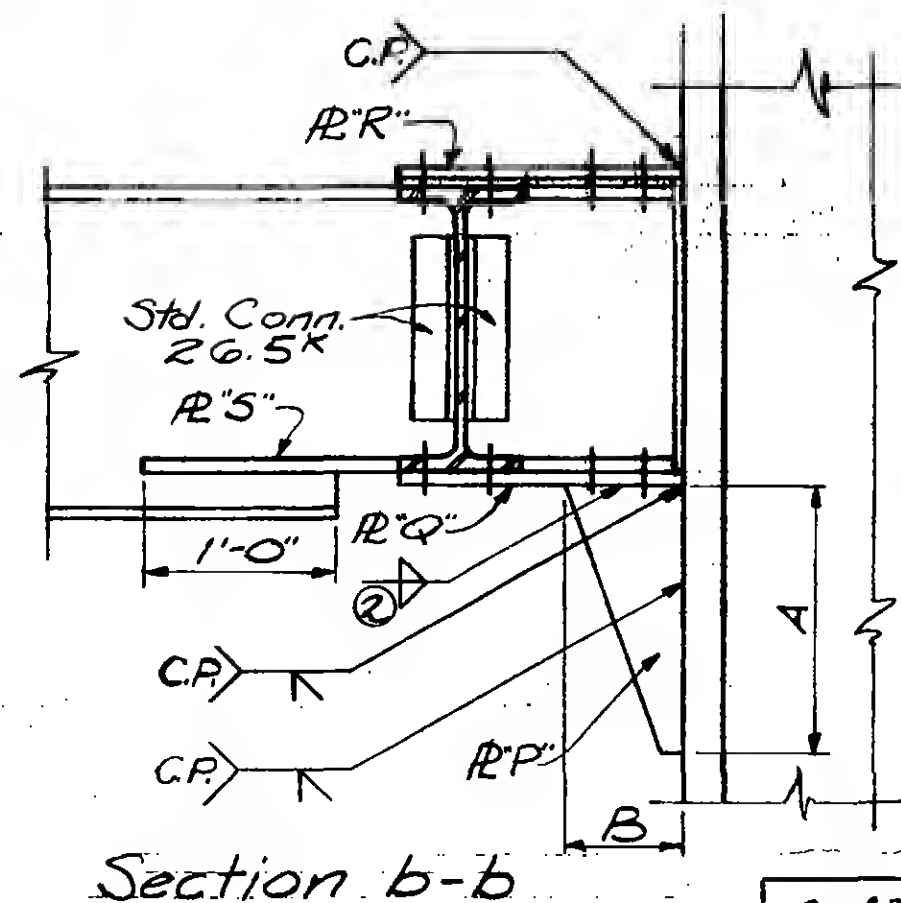
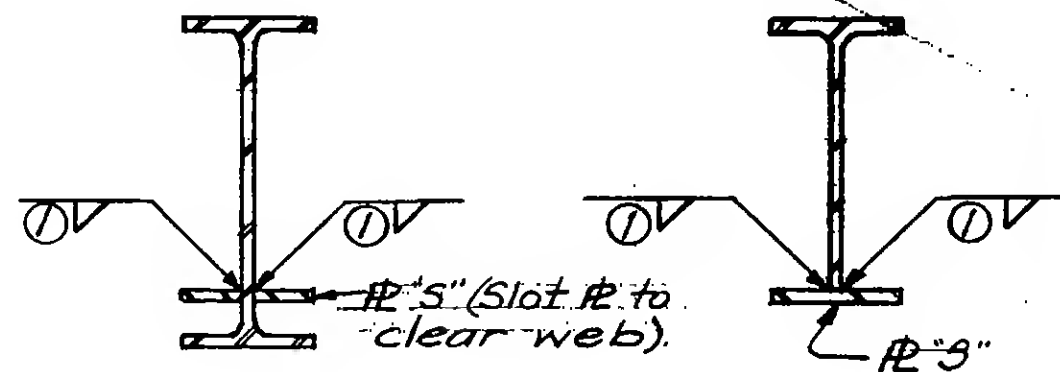
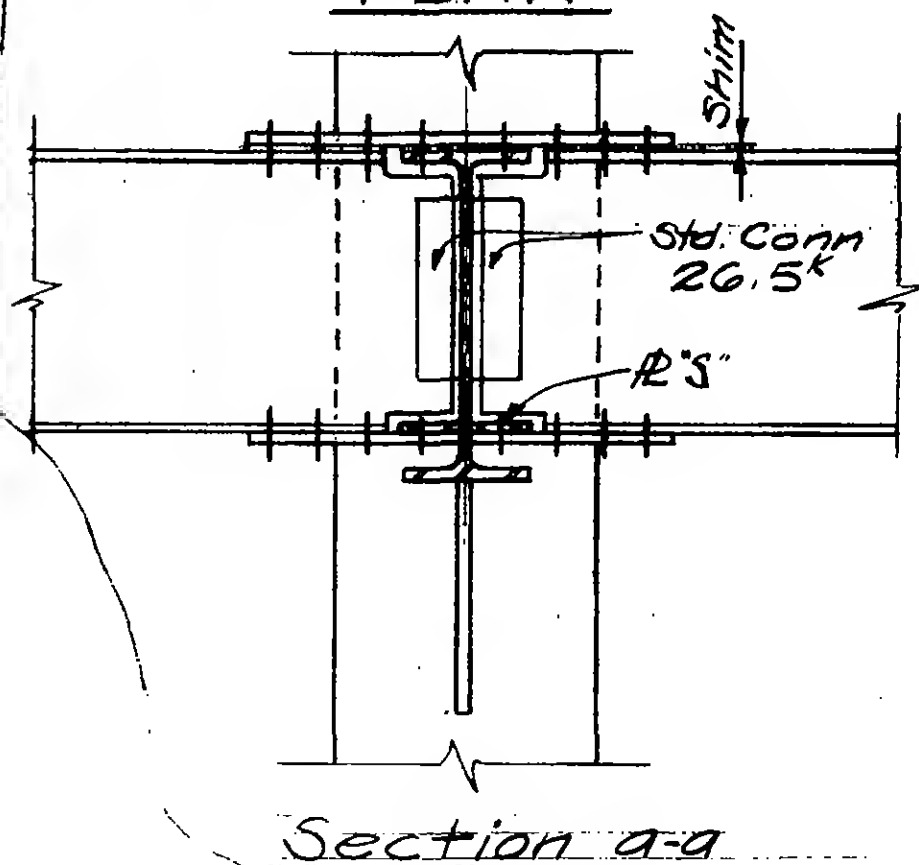
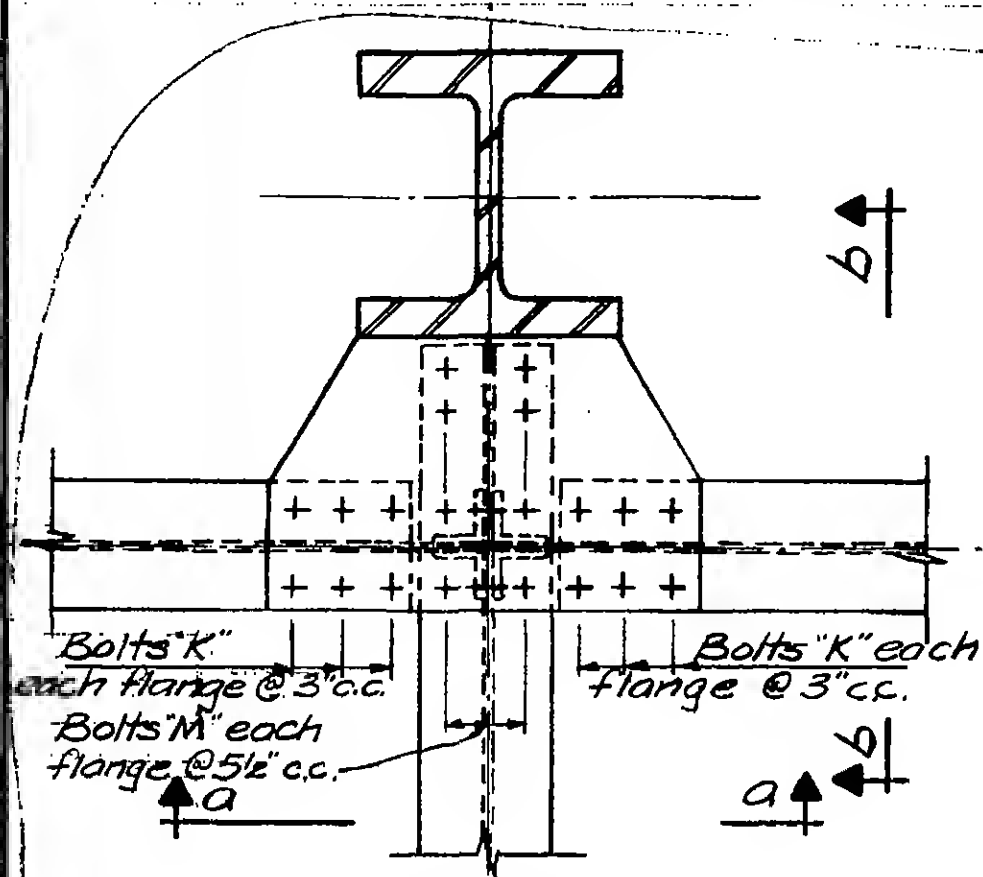
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6-ABI-5.4

REVISIONS

9-15-67



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PROJECT THE WORLD TRADE CENTER

TITLE SCHEDULE FOR DETAIL 203A

DATE 9-15-67

REVISIONS

203A

PLATES

P 3/4"
Q 3/4"
R 1/2"
S 8" x 58"

DIMENSIONS

A 1'-4"
B 0'-9"

BOLTS

K 6-3/4"φ
M 8-3/4"φ

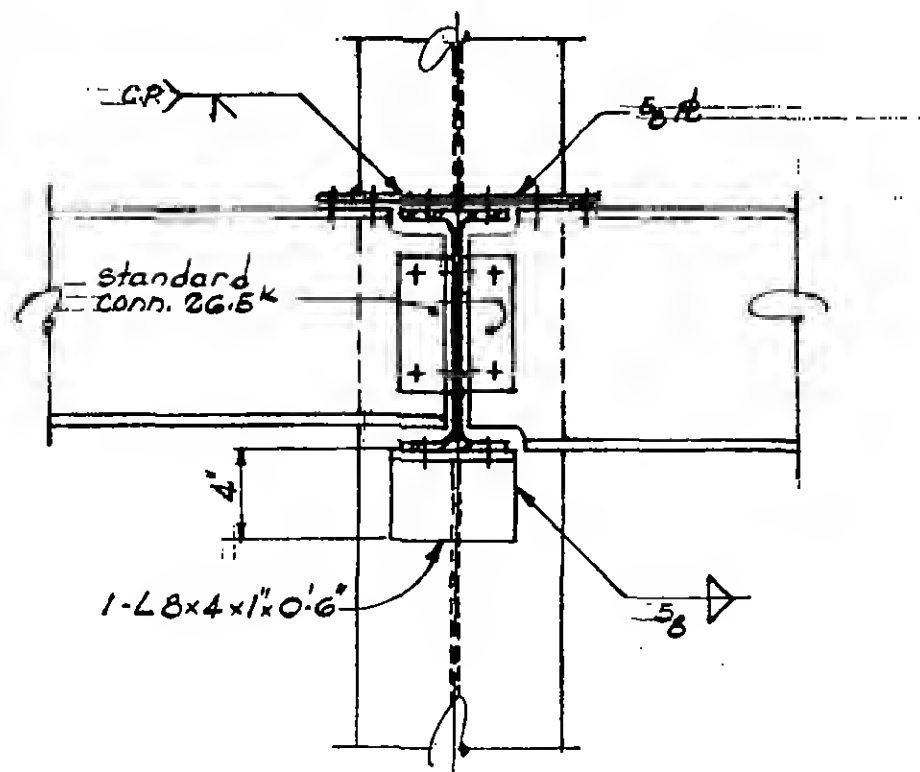
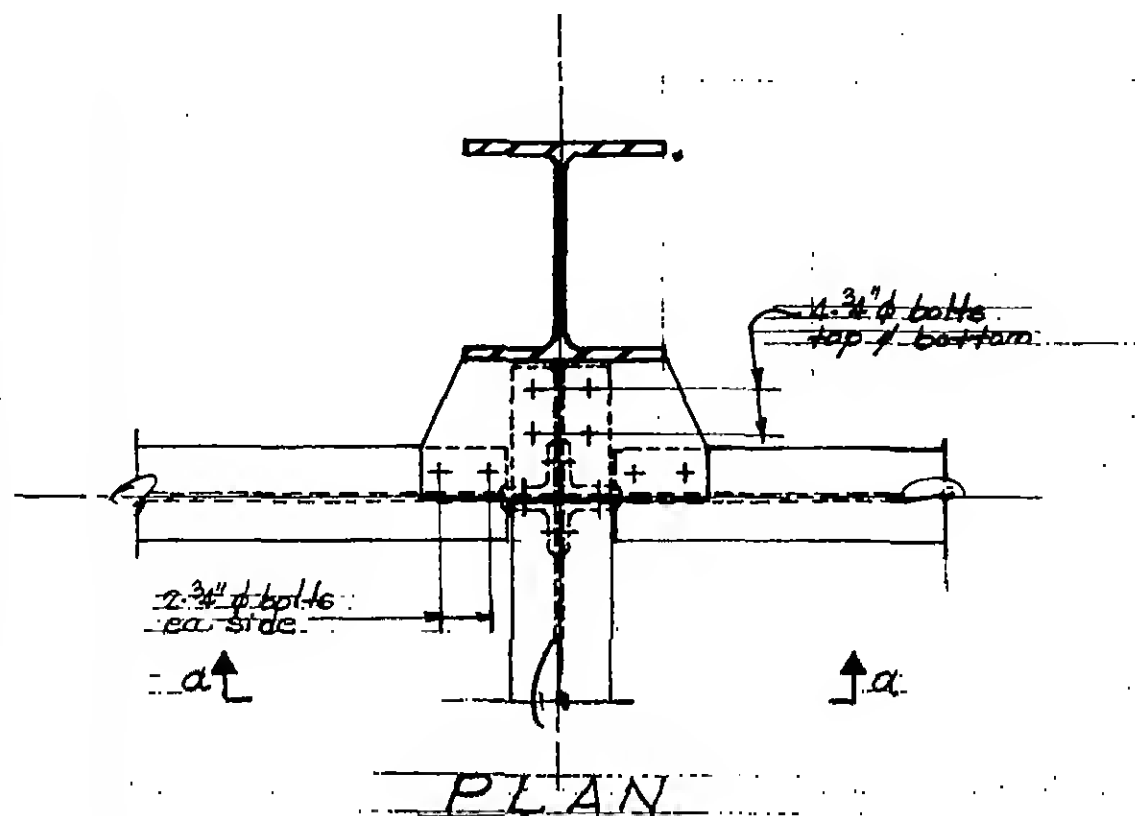
WELDS

① 3/8
② 5/16

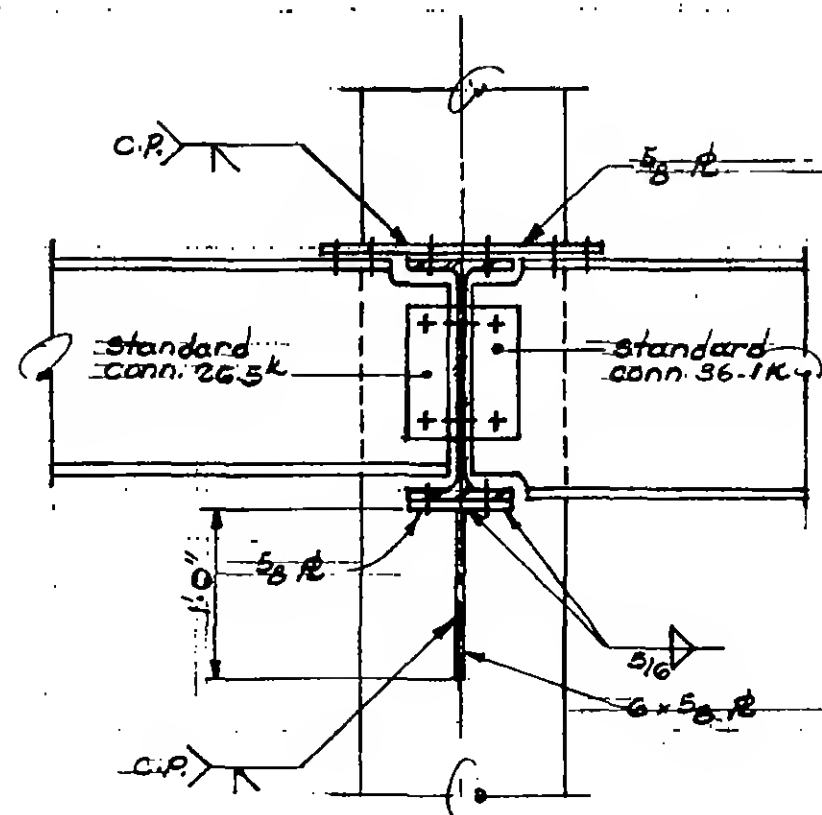


G-ABI-G.1

REVISIONS

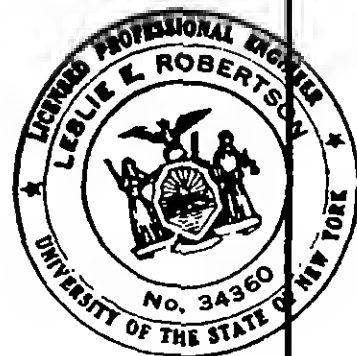


Section a-a (203 B only)



Section a-a (203 C only)

G-AB1-6.2



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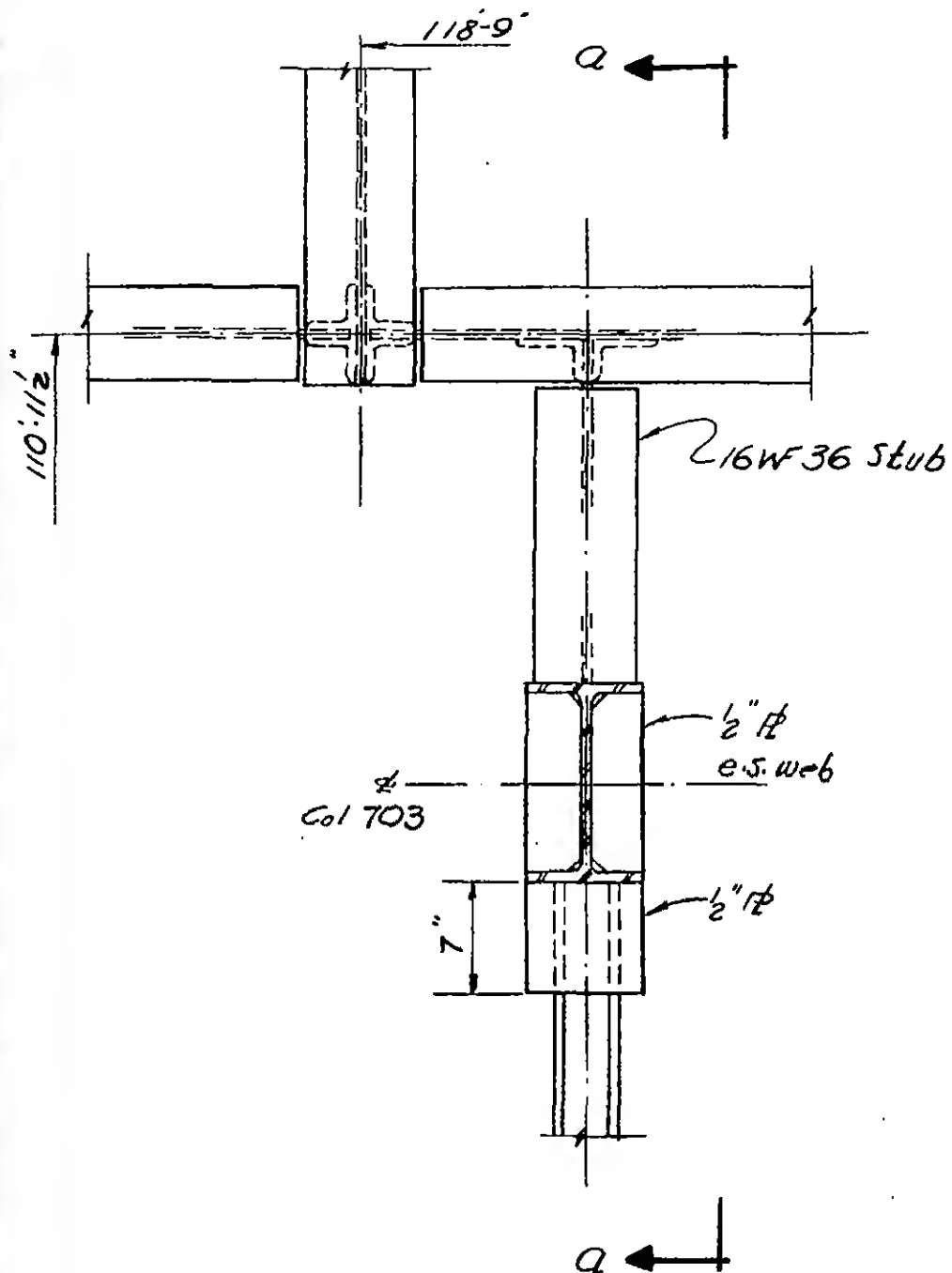
Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER

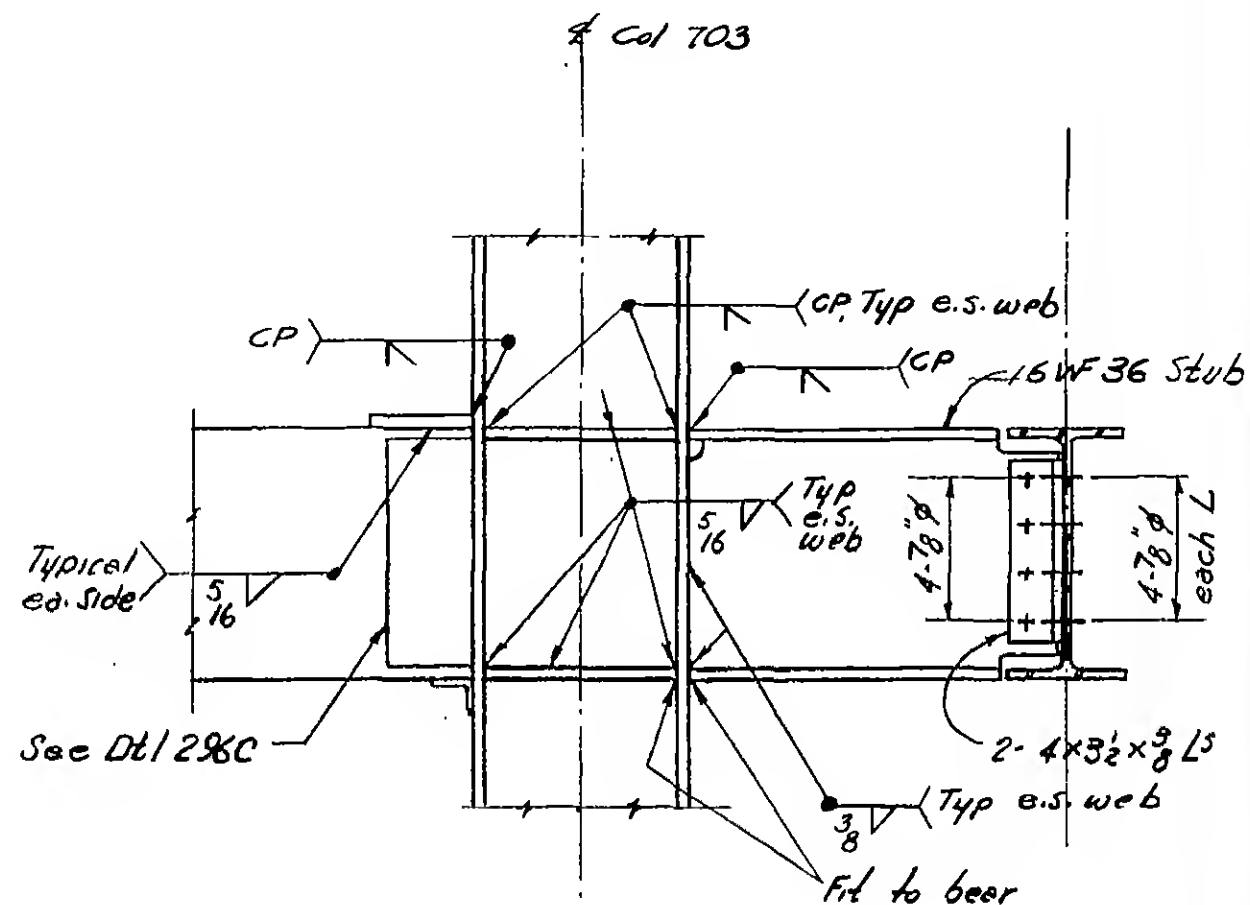
TITLE CONNECTION DETAIL 203 D

DATE 9/30/69

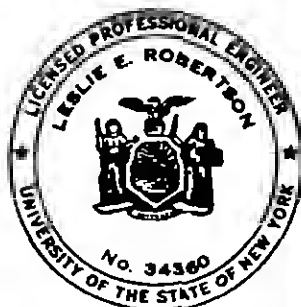
REVISIONS



PLAN



Section AA



DESIGNED

DRAWN

REVIEWED

6-AB1-6.3

PROJECT THE WORLD TRADE CENTER

TITLE CONNECTION DETAIL 204 A, B, C

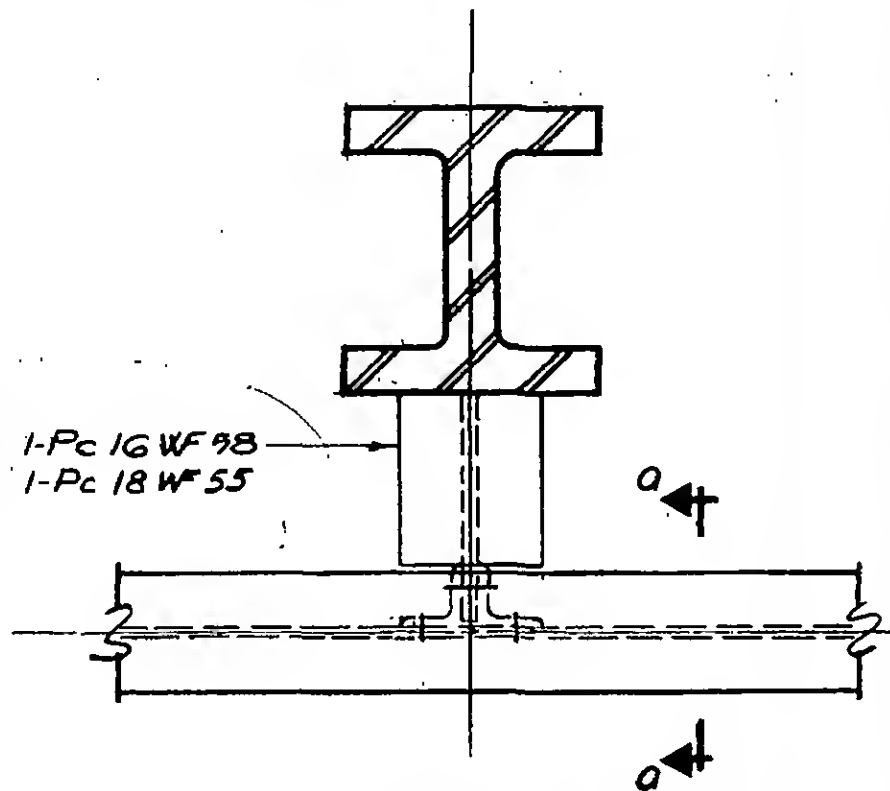
DATE 6-5-67

REVISIONS

10-2-67

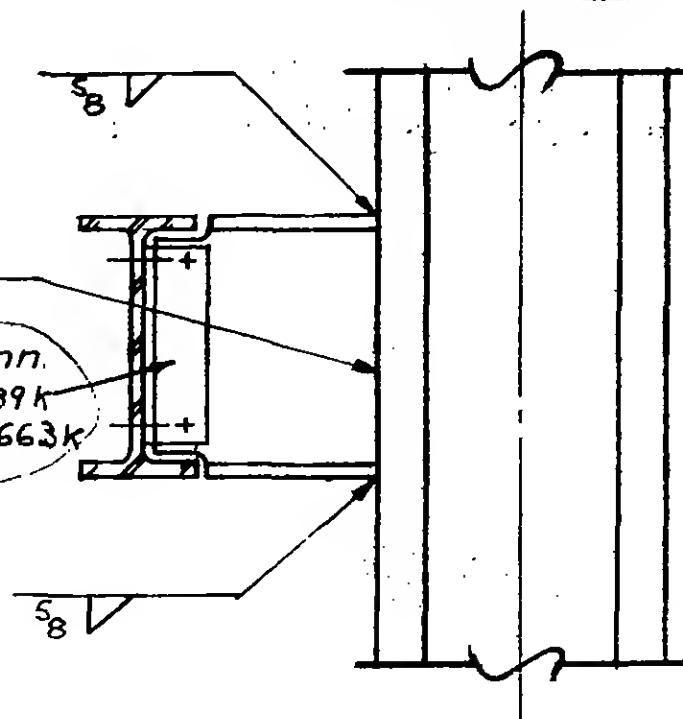
10-5-67

Detail A, 1-Pc 16 WF 98
Detail C, 1-Pc 18 WF 55



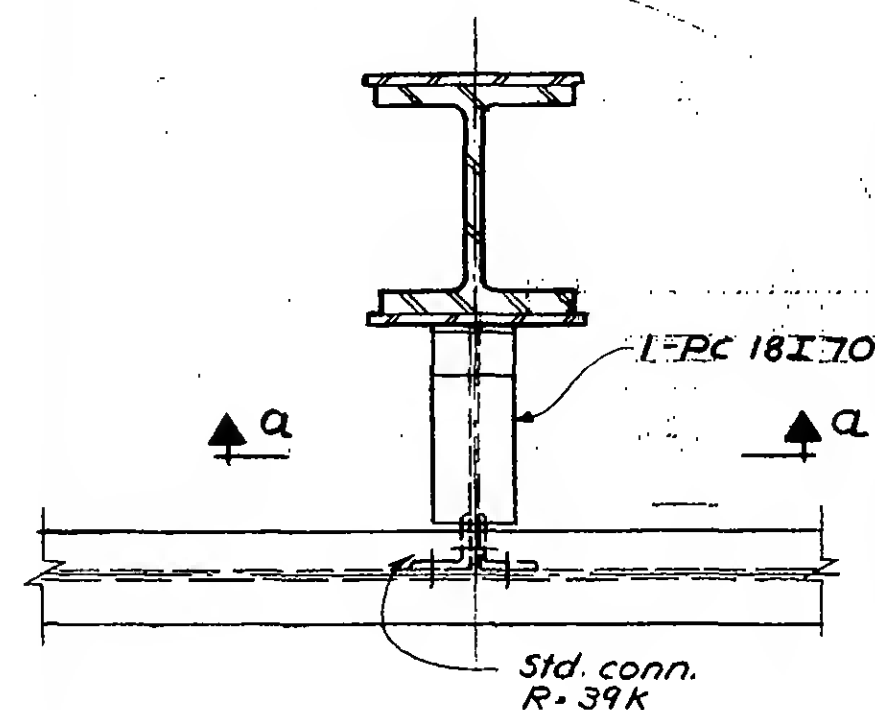
Plan
Details 204 A, C

Std. conn.
Detail A, R=39k
Detail C, R=663k

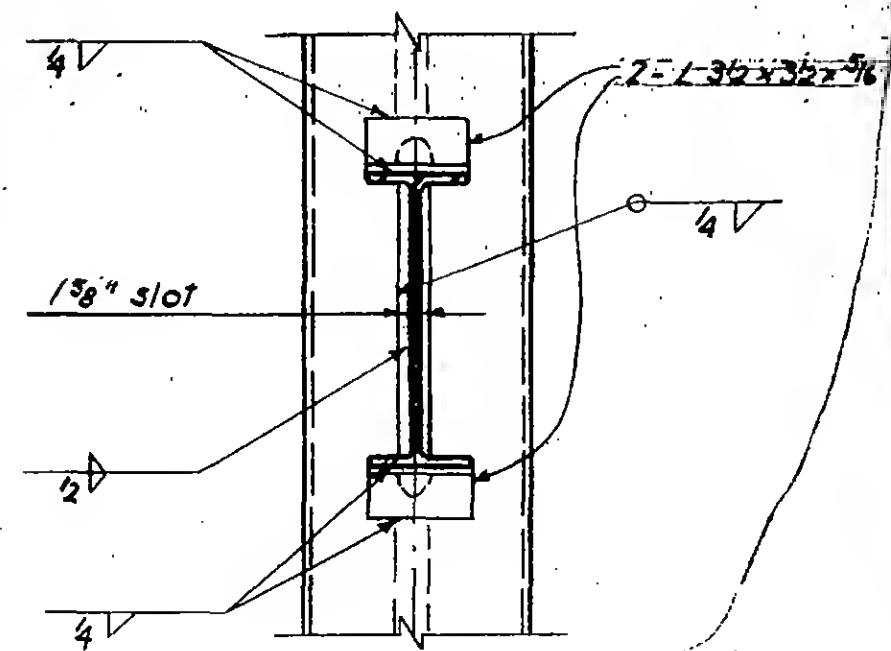


Section a-a

1-Pc 18 I 70

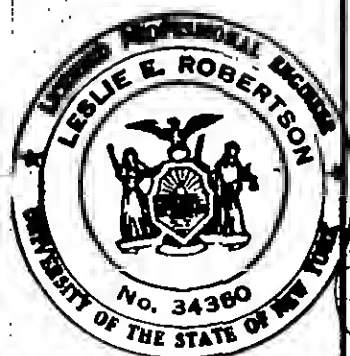


Plan
Detail 204 B



Section a-a

6-AB1-7



PROJECT

THE WORLD TRADE CENTER

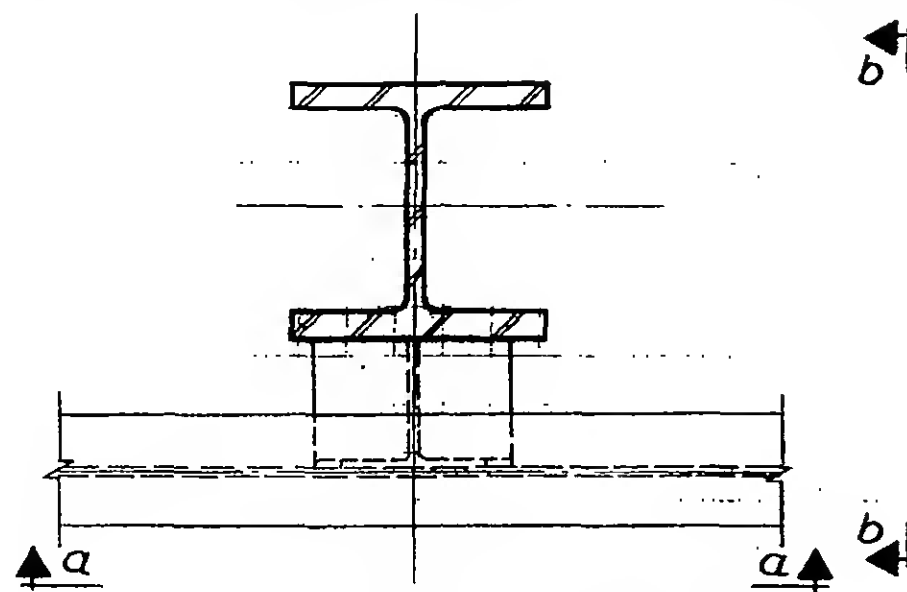
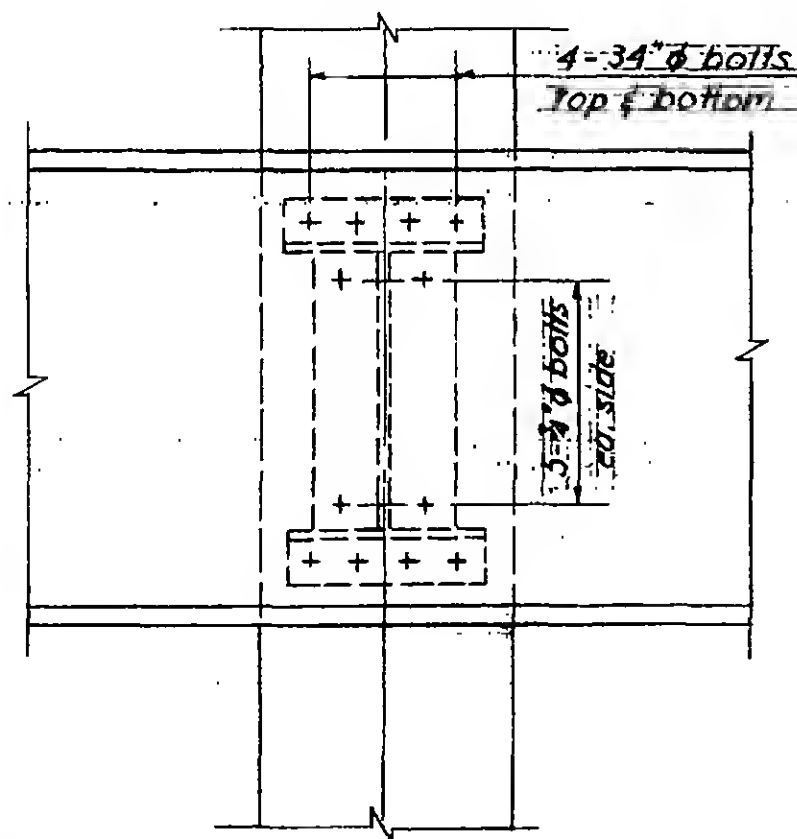
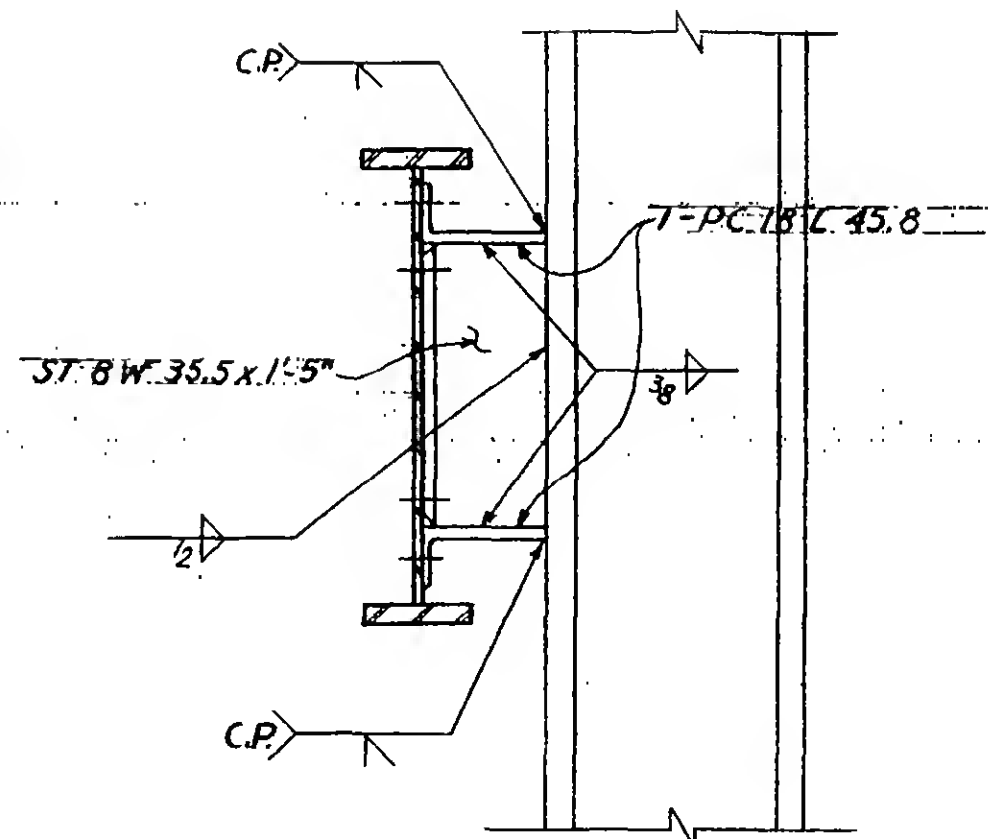
TITLE

CONNECTION DETAIL 204 F

DATE

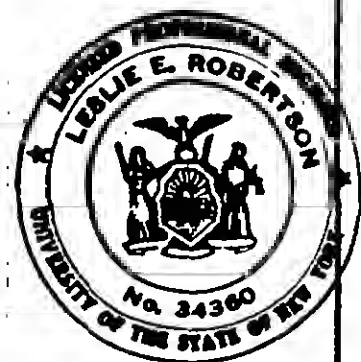
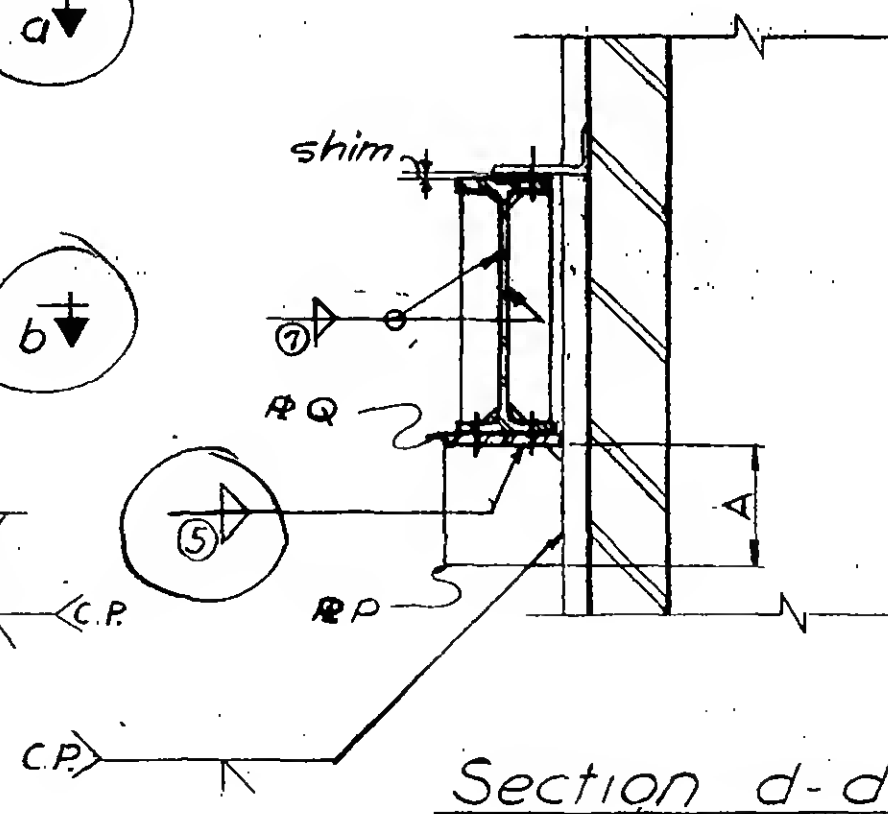
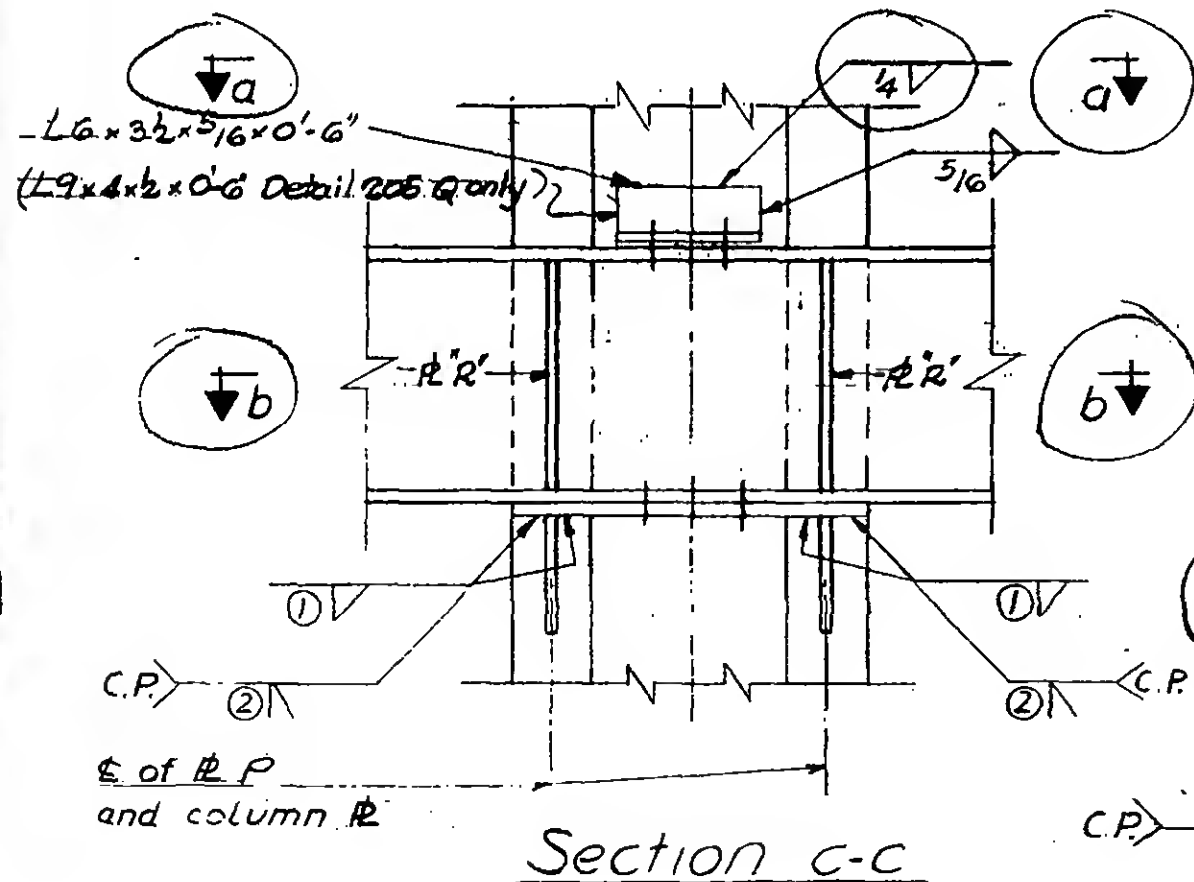
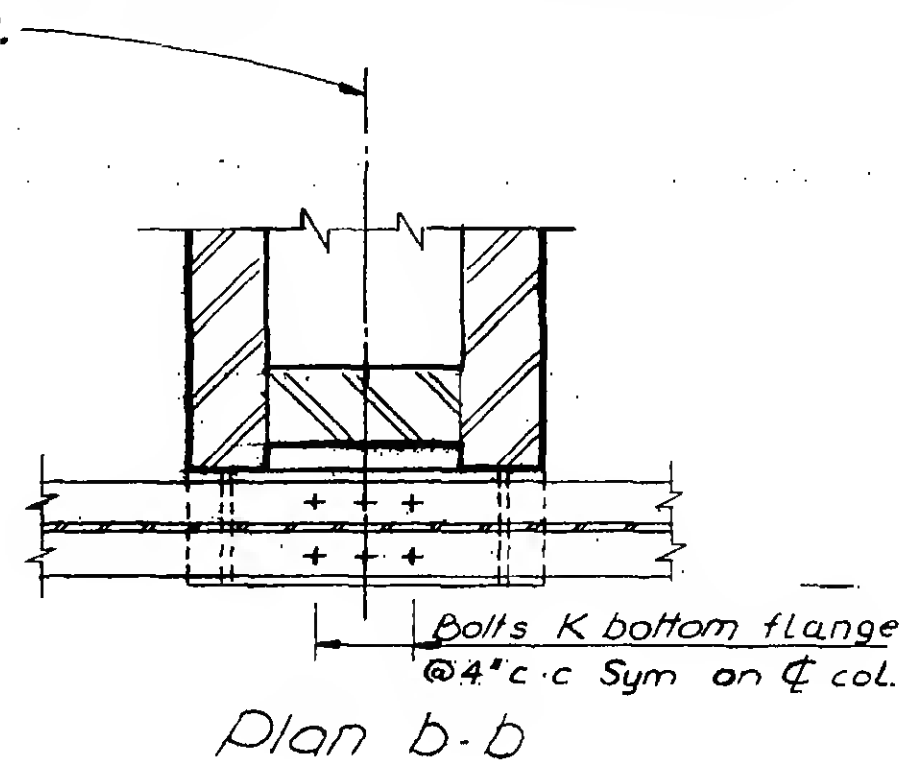
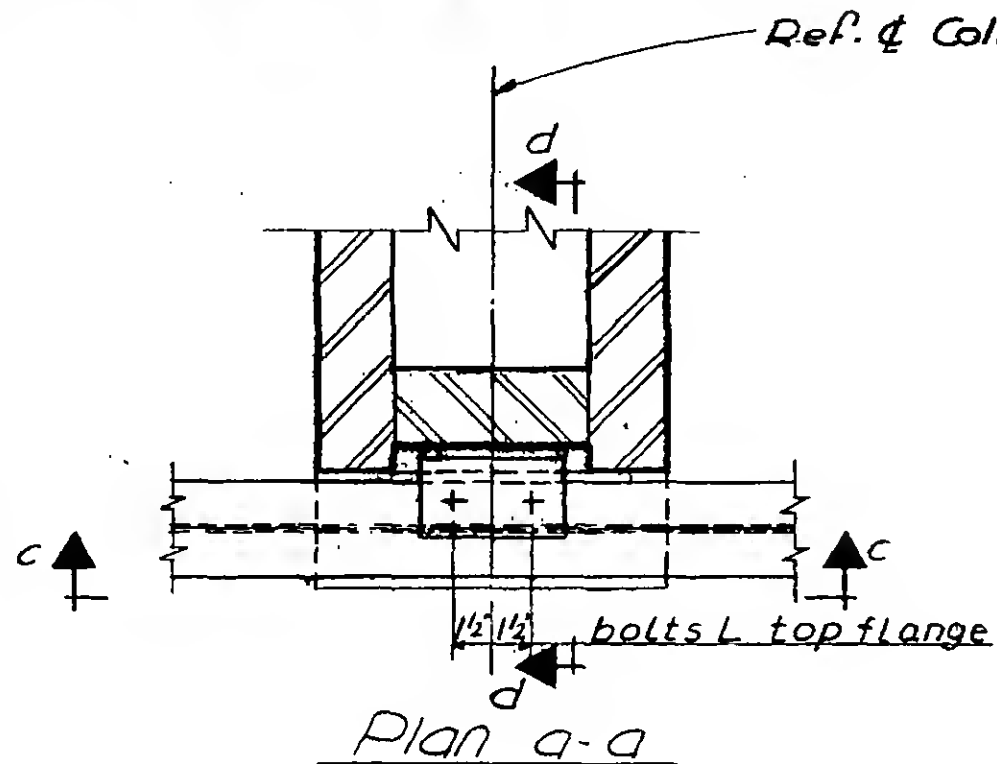
12-21-67

REVISIONS

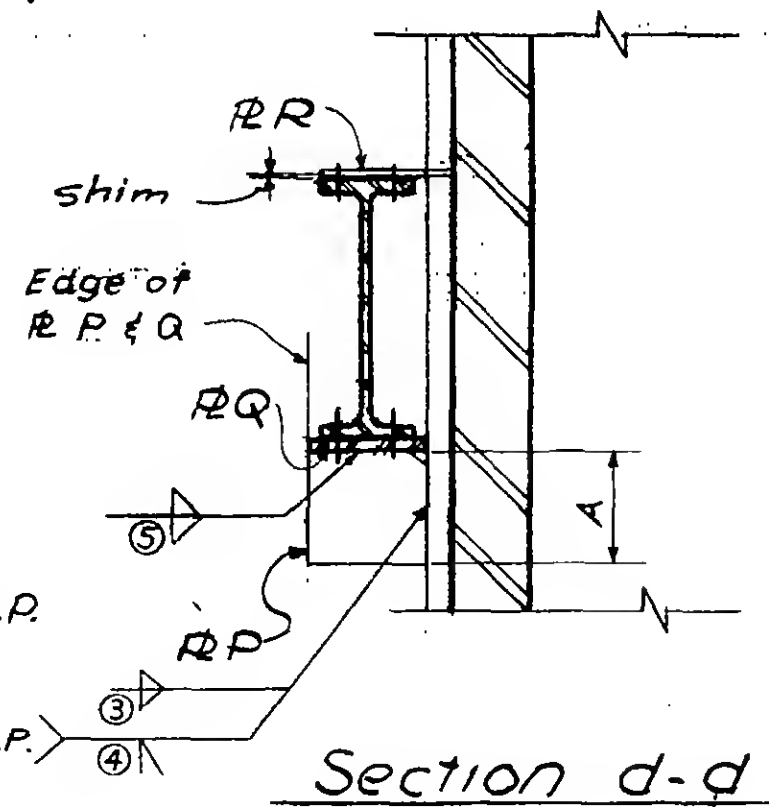
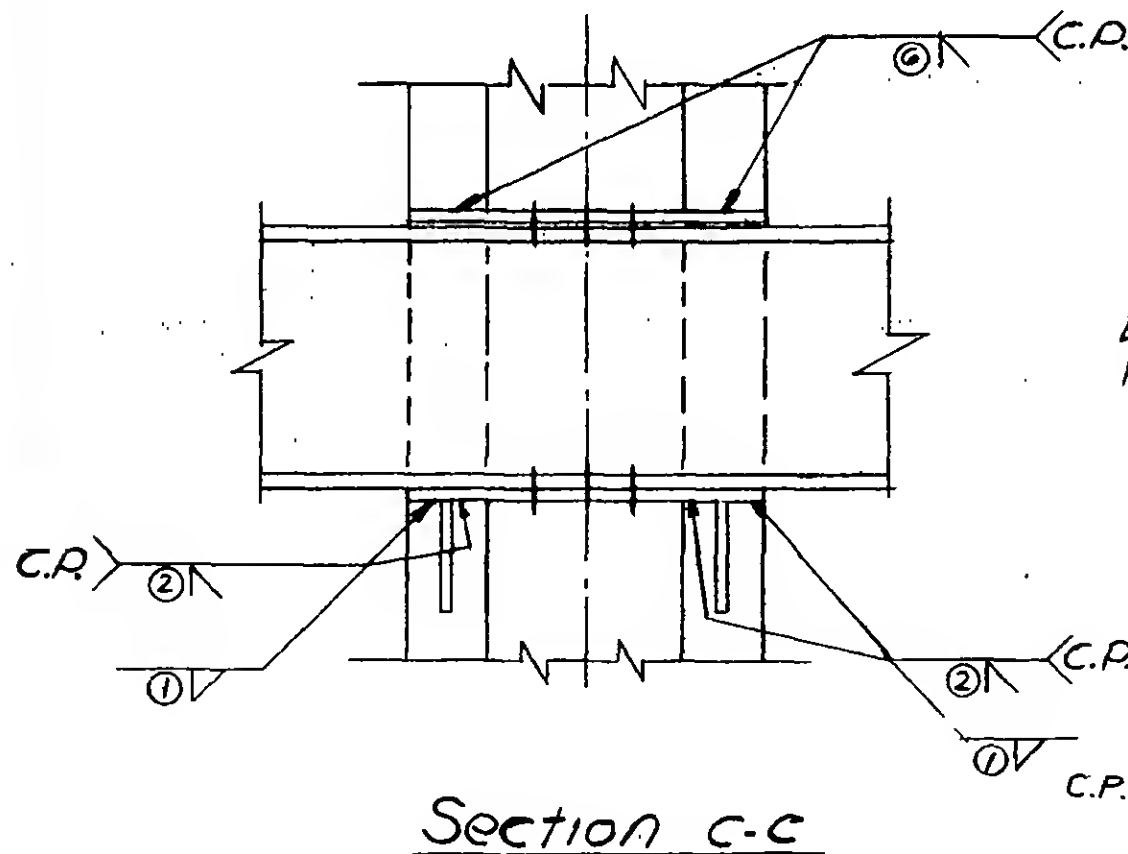
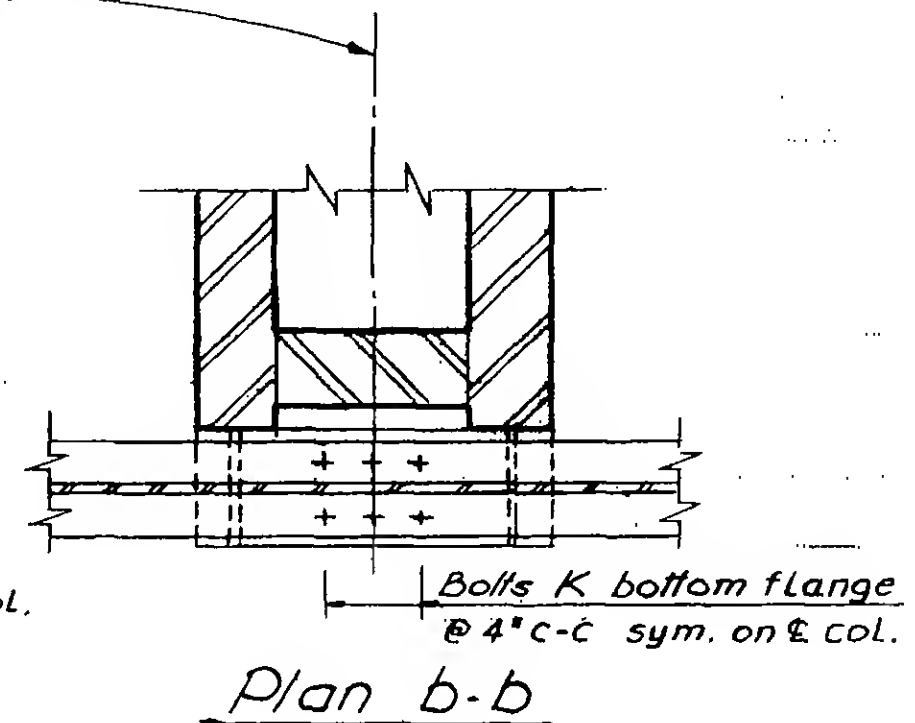
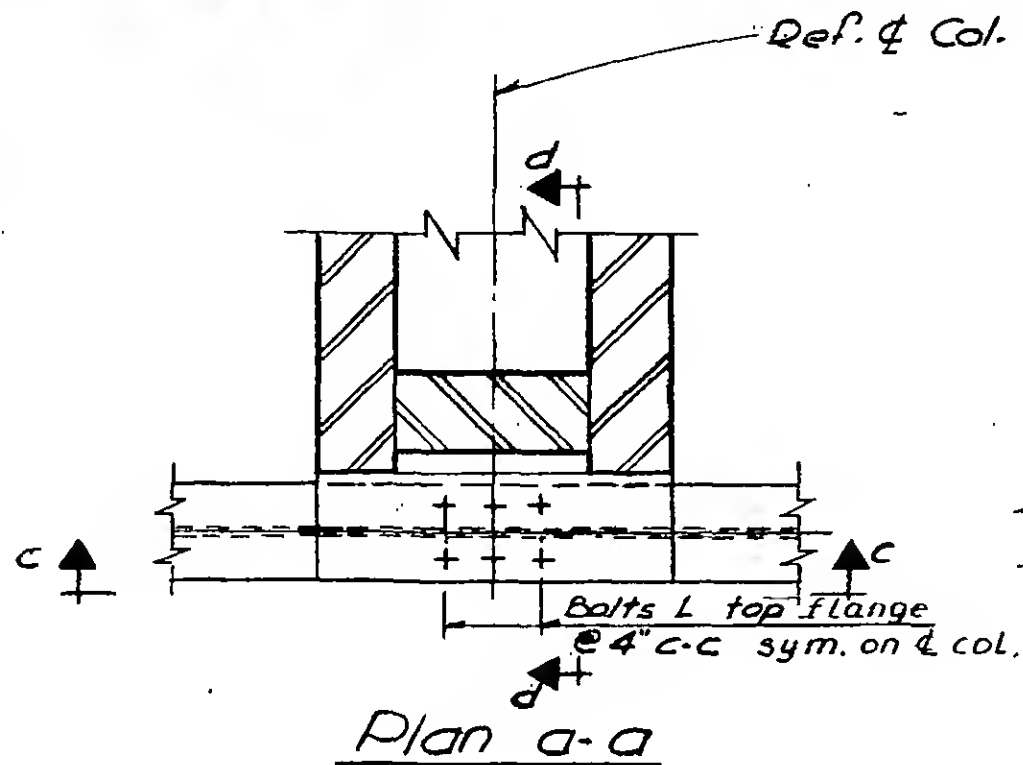
PlanSection a-aSection b-b

REVISIONS

7-28-67
8-5-67
10-2-67



REVISIONS



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THE WORLD TRADE CENTER

SCHEDULE FOR DETAIL 205 A-F

7-28-67

[illegible]

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PROJECT

THE WORLD TRADE CENTER

TITLE

SCHEDULE FOR DETAIL 205 G, I, H, J, K, L

DATE

7-28-67

REVISIONS

8-5-67

10-2-67

10-31-67

REF. DWGS.

6-ABI-9

6-ABI-9

6-ABI-9.4

6-ABI-9.5

6-ABI-9.5

6-ABI-9.5

205 G

205 I

205 H

205 J

205 K

205 L

PLATES

P

1"

1/2"

1/2"

3/4"

7/8"

1"

Q

1/4"

1/2"

1"

3/4"

7/8"

1"

R

—

—

1"

1/2"

1/2"

1/2"

S

—

—

—

—

5/8"

5/8"

DIMENSIONS

A

1'-4"

1'-2"

1'-2"

1'-3"

1'-6"

1'-7"

B

—

—

—

—

0'-9" min

0'-9" min

BOLTS

K

6 - 3/4" ϕ 4 - 3/4" ϕ 12 - 1" ϕ 12 - 7/8" ϕ 12 - 7/8" ϕ 12 - 7/8" ϕ

L

2 - 3/4" ϕ 2 - 3/4" ϕ 12 - 1" ϕ

—

4 - 7/8" ϕ 4 - 7/8" ϕ

WELDS

①

—

—

C.P.

5/16

5/16

5/16

②

C.P.

C.P.

C.P.

—

3/8"

3/8"

③

—

—

—

—

—

—

④

C.P.

C.P.

—

—

—

—

⑤

3/8

1/4

—

—

—

—

⑥

—

—

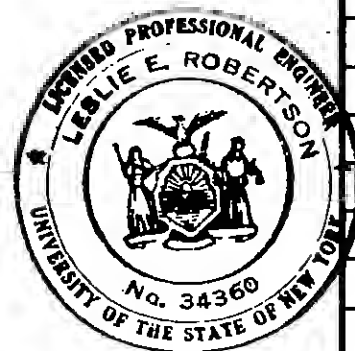
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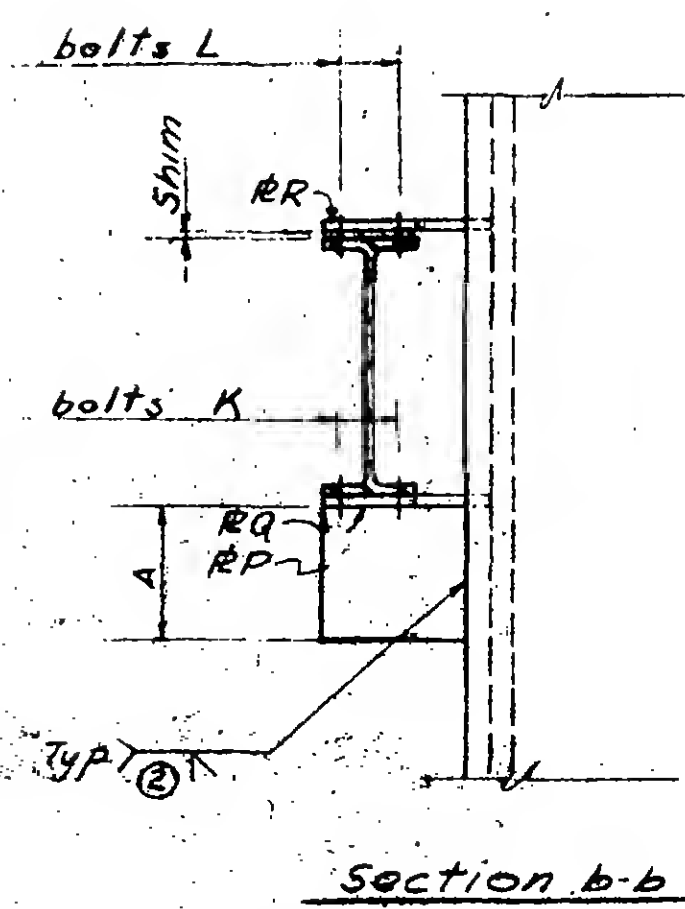
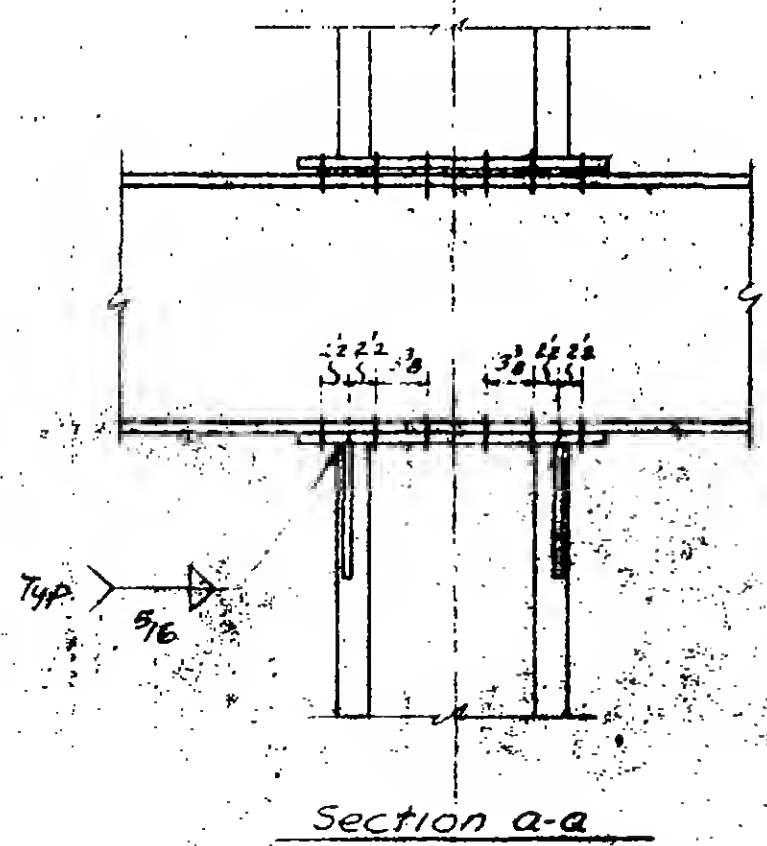
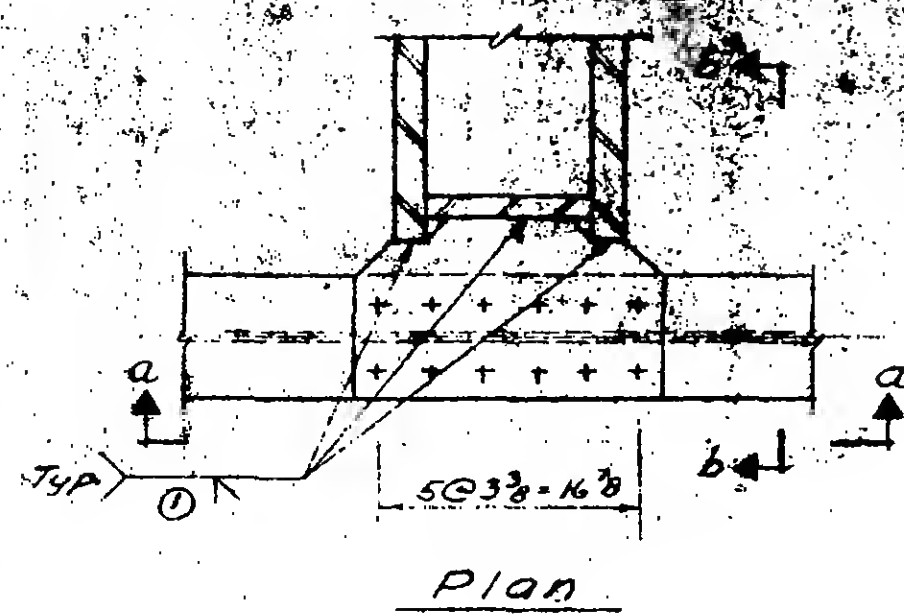
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6-ABI-9.3





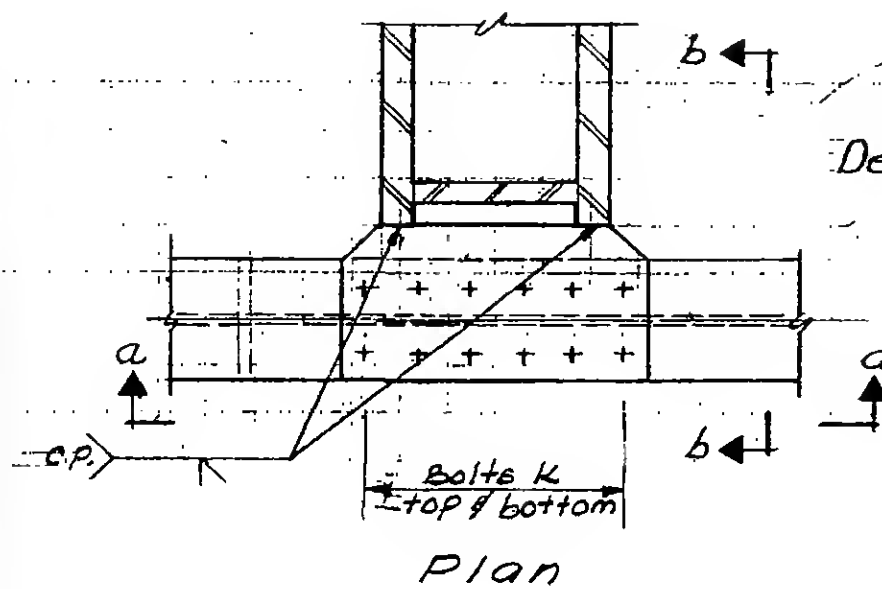
PROJECT THE WORLD TRADE CENTER

TITLE CONNECTION DETAIL 205 J, K, L

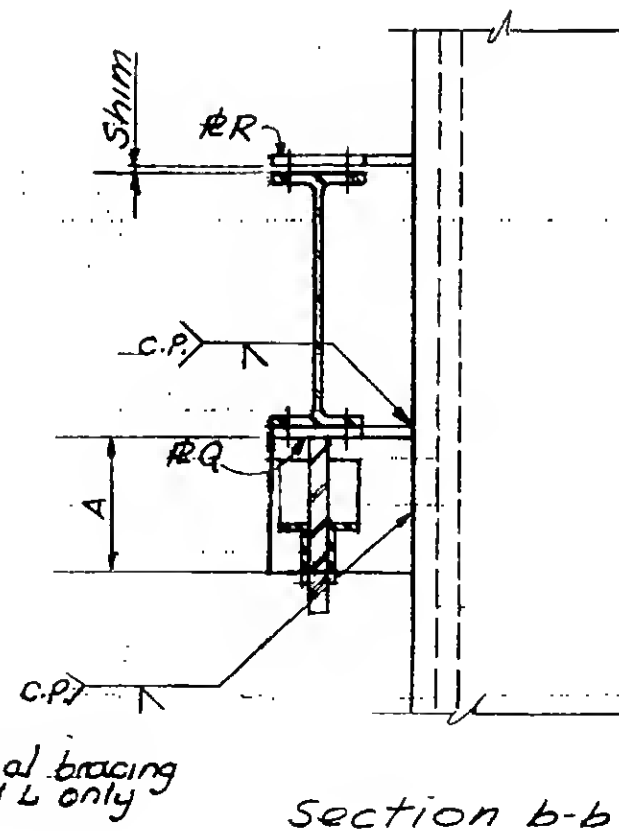
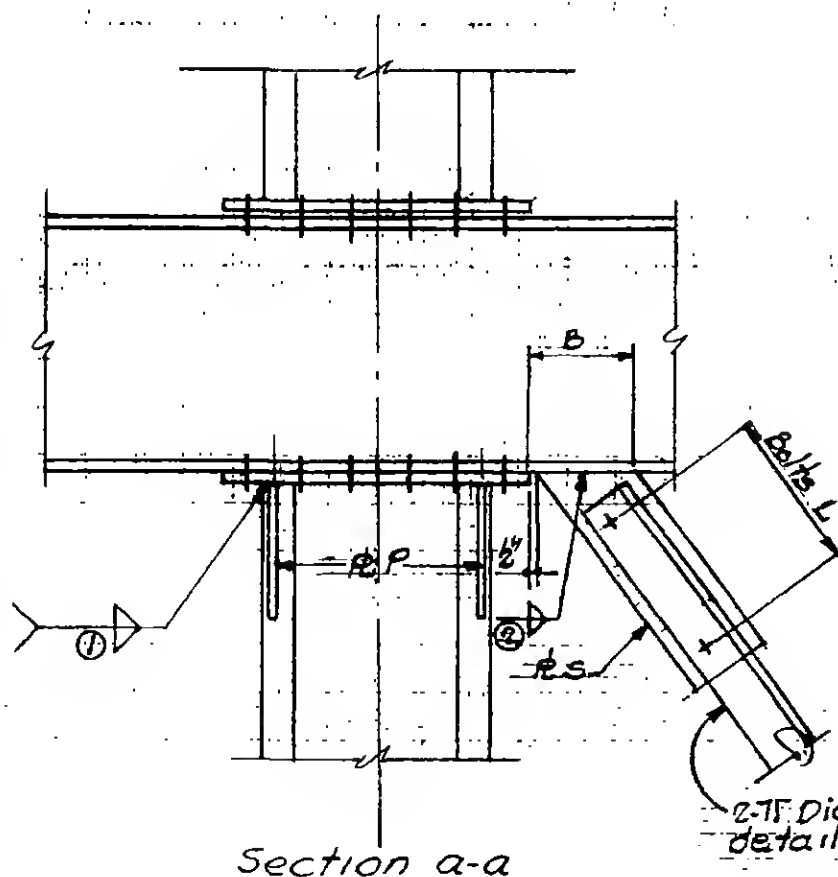
DATE 10-2-67

REVISIONS

10-31-67



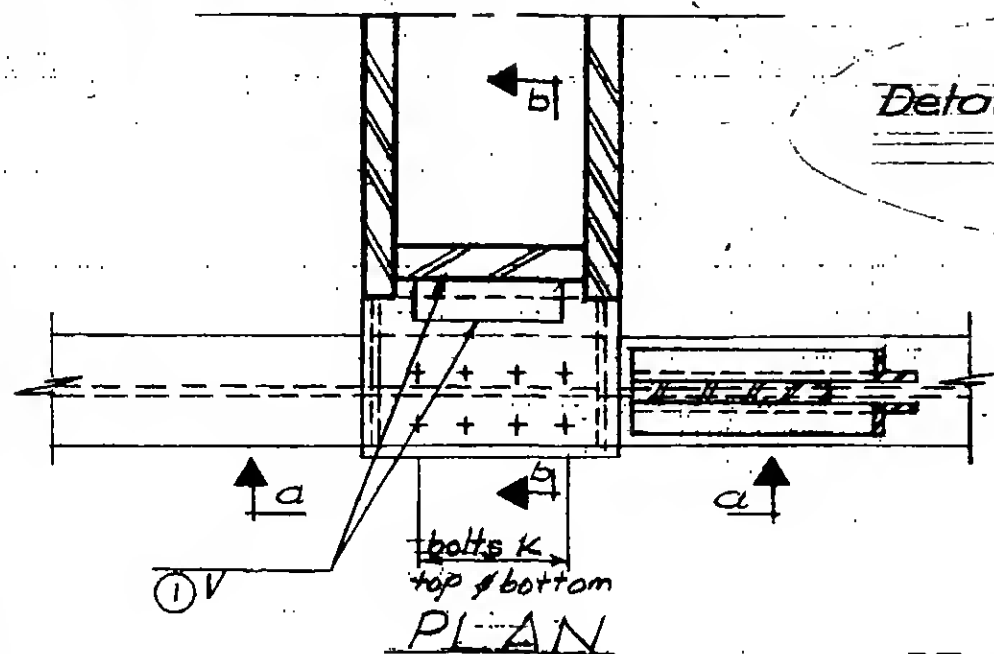
Details K & L: See G-AB5-96 for bracing elevation

2-TF Diagonal bracing
details K & L only

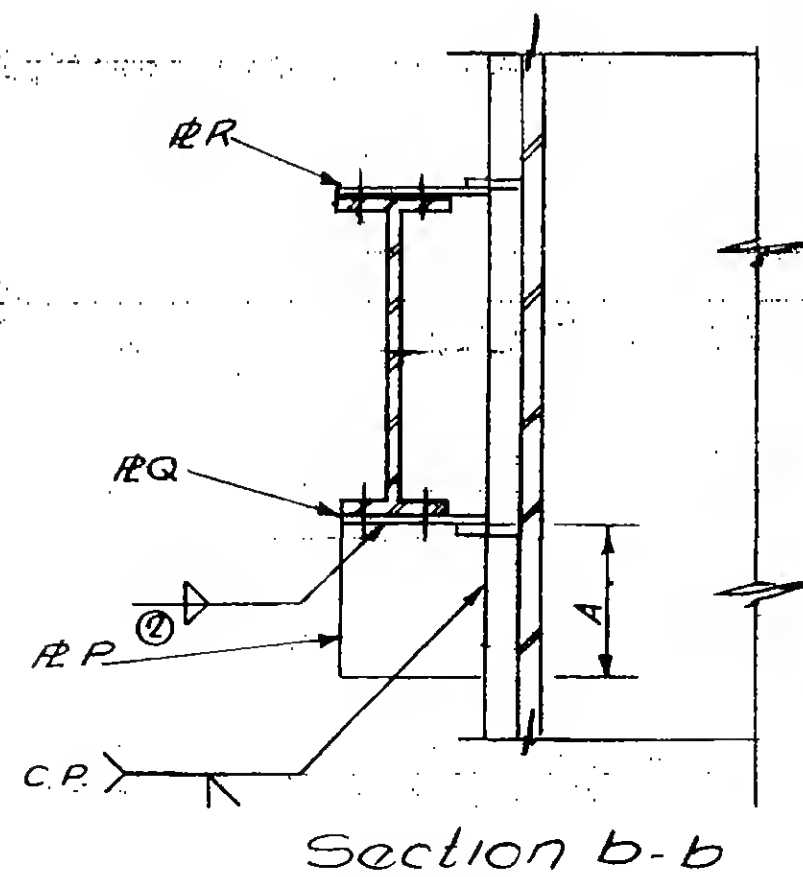
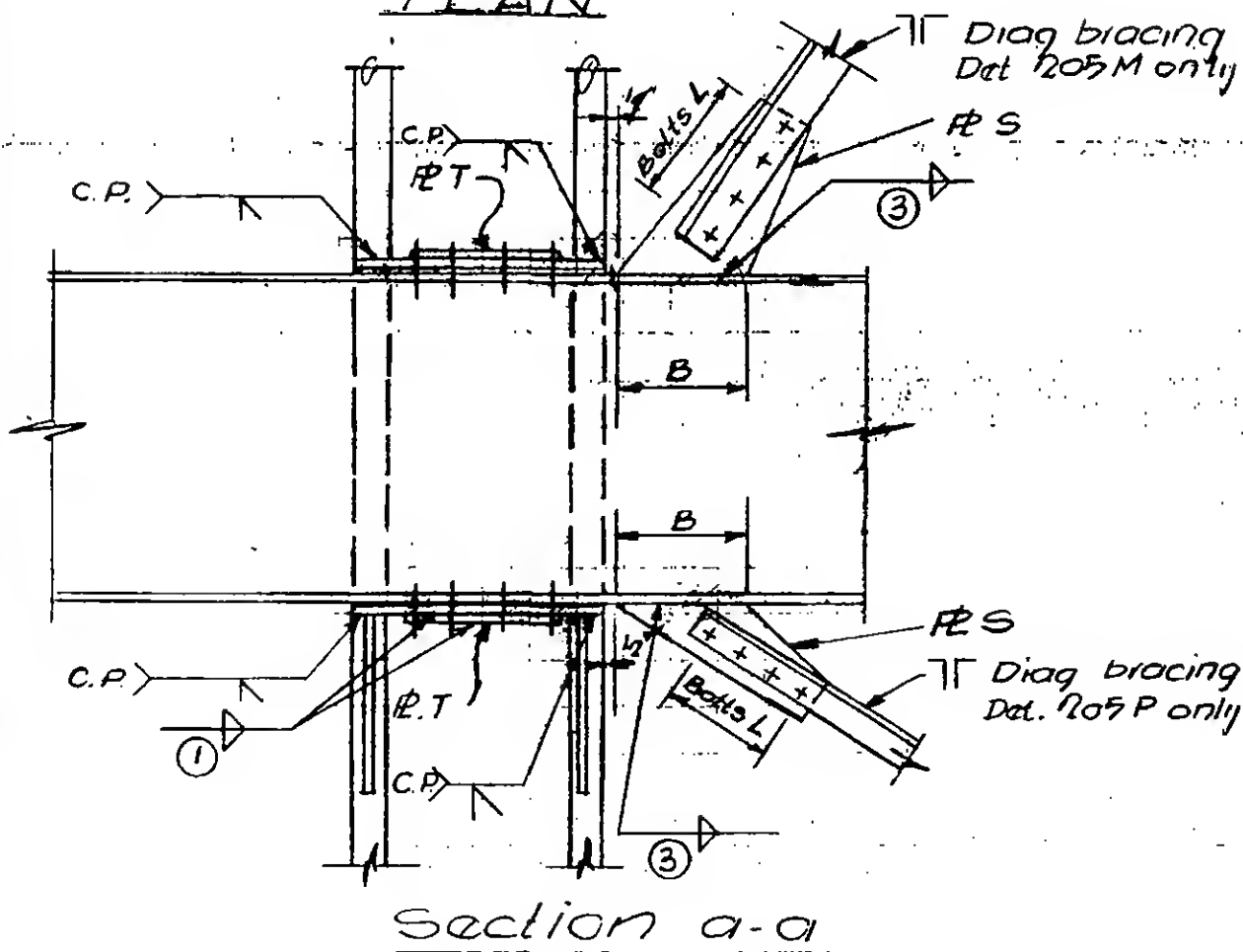
G-AB1-9.5

REVISIONS

10-31-67



Details 205 M & P: See G-AB5-96 or G-AB5-99
for bracing elevation.



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THE WORLD TRADE CENTER

TITLE

SCHEDULE FOR DETAIL 205 M, N, P, Q, R, S, T

DATE 10-2-67

REVISIONS

10-31-67

REF. DWG.	G-ABI-9.6	G-ABI-9.6	G-ABI-9.6	G-ABI-9	G-ABI-9.8	G-ABI-9.8
	205 M	205 N	205 P	205 Q	205 R, S	205 T
PLATES						
P	3/4"	5/8"	5/8	1	7/16	1
Q	1"	1"	7/8	1	7/16	1
R	1"	1"	7/8	5/8	—	—
S	5/8"	—	5/8	—	—	—
T	3/4"	3/4"	5/8	—	—	—
BOLTS						
K	8-1 1/8" A490	8-1 1/8" A490	8-1" A490	6-3/4" ϕ	3-3/4" ϕ	4-3/4" ϕ
L	4-7/8" ϕ	—	4-7/8" ϕ	2-3/4" ϕ	2-3/4" ϕ	2-3/4" ϕ
DIMENSIONS						
A	1'-2"	1'-0"	1'-0"	1'-8"	0'-9"	1'-10"
B	0'-9" min	—	0'-9" min	—	—	—
WELDS						
1	5/8	5/8	1/2	—	—	—
2	3/8	3/8	3/8	C.P.	C.P.	C.P.
3	3/8	—	3/8	—	—	—
4	—	—	—	C.P.	C.P.	C.P.
5	—	—	—	5/16	5/16	5/16
6	—	—	—	3/8	—	—
7	—	—	—	3/8	—	—



G-ABI-9.7

PROJECT

THE WORLD TRADE CENTER

TITLE

CONNECTION DETAIL 205 R, S, T, U, V, W, X, Y

DATE

10-2-67

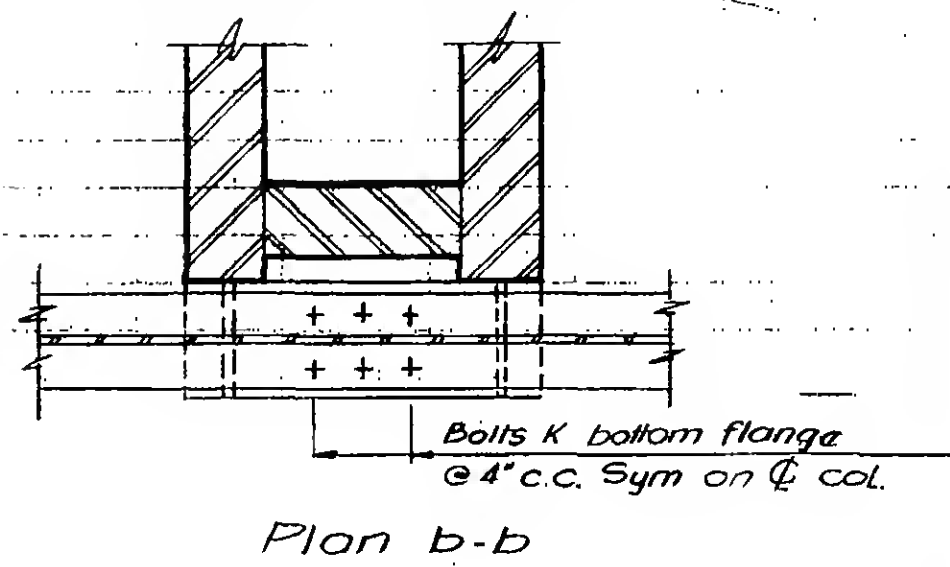
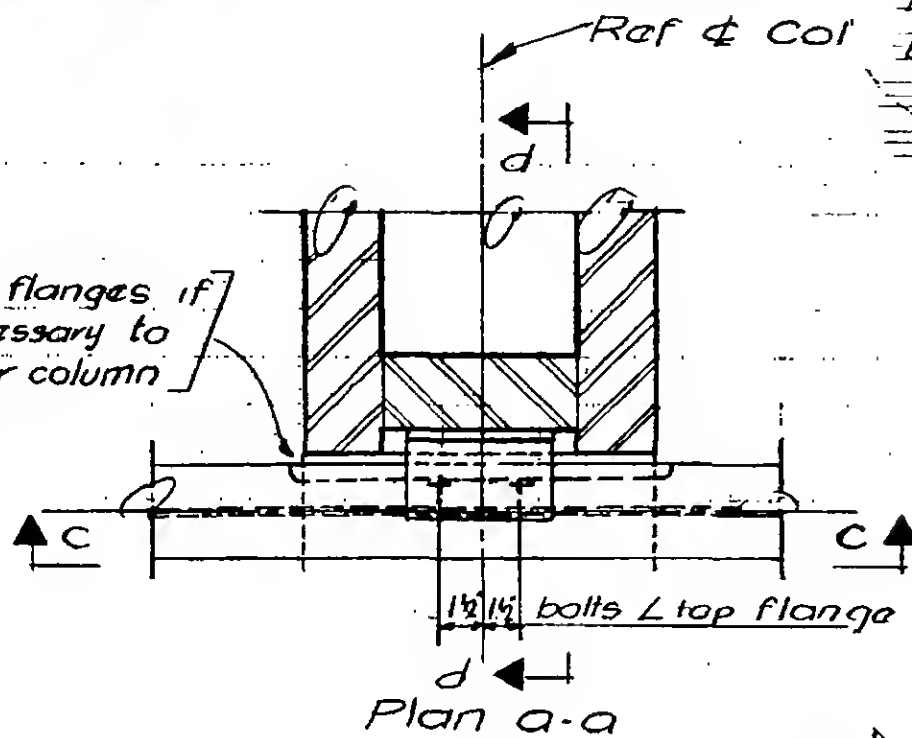
REVISIONS

10-31-67

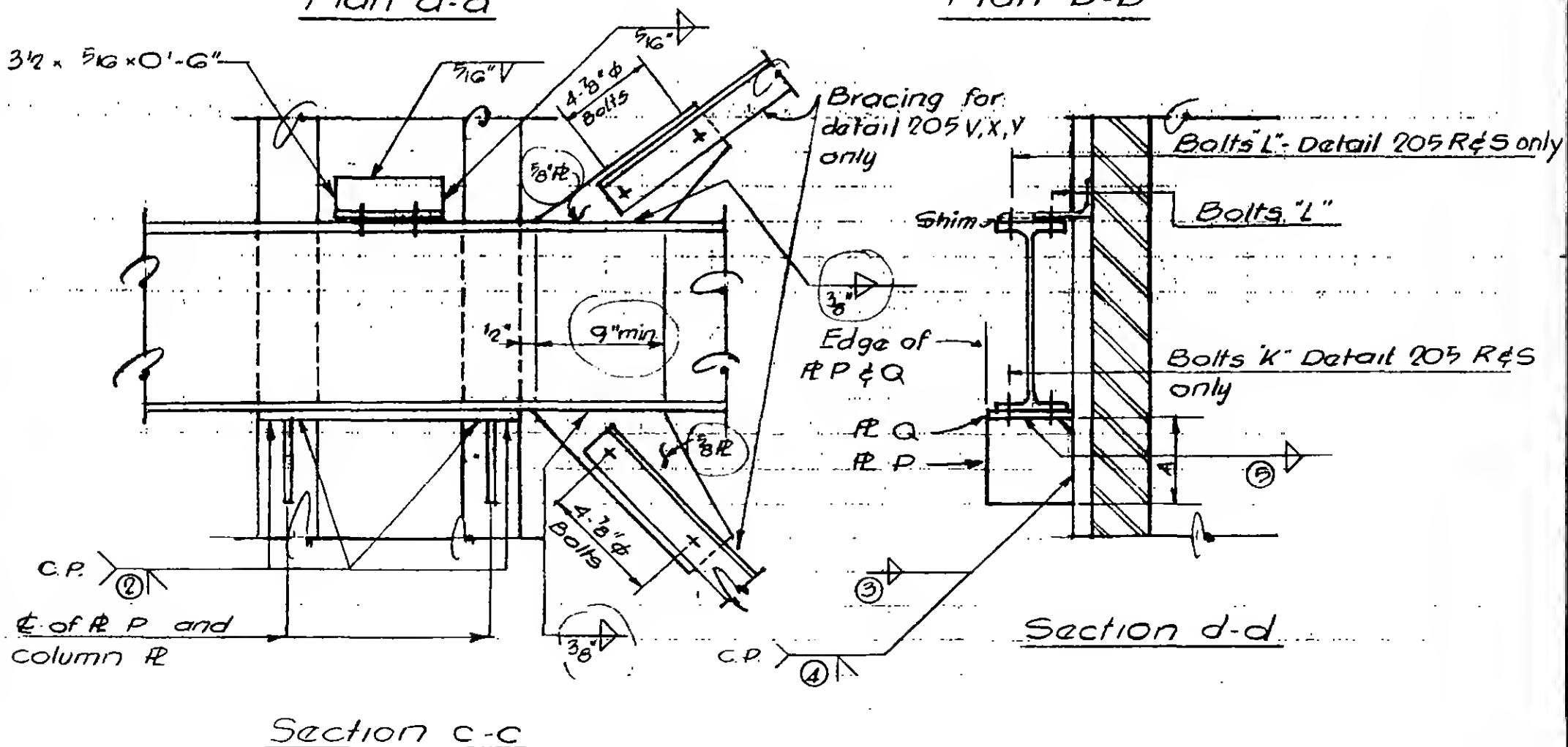
Detail 205 X See G-AB5-96 for bracing elevation

Detail 205 V & Y See G-AB5-96 or G-AB5-99

for bracing elevation

Cut flanges if
necessary to
clear column

L 6 x 3 1/2 x 5/16 x 0'-6"



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PROJECT *THE WORLD TRADE CENTER*

TITLE SCHEDULE FOR DETAIL 205 U, V, W, X, Y

DATE 10-2-67

REVISIONS

REF. DWG.	G-AB1-9.8	G-AB1-9.8	G-AB1-9.8	G-AB1-9.8	G-AB1-9.8
	205 U	205 V	205 W	205 X	205 Y
PLATE					
P	3/4"	5/8"	5/8"	3/4"	1/4"
Q	3/4"	5/8"	5/8"	3/4"	5/8"
R	—	—	—	—	—
BOLTS					
K	4-3/4" φ	4-3/4" φ	4-3/4" φ	4-3/4" φ	4-3/4" φ
L	2-3/4" φ	2-3/4" φ	2-3/4" φ	2-3/4" φ	2-3/4" φ
DIMENSION					
A	1'-3"	1'-2"	1'-0"	1'-3"	1'-9"
WELDS					
(1)	—	—	—	—	—
(2)	C.P.	C.P.	C.P.	C.P.	C.P.
(3)	—	—	—	—	—
(4)	C.P.	C.P.	C.P.	C.P.	C.P.
(5)	5/16"	5/16"	5/16"	5/16"	5/16"



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THE WORLD TRADE CENTER

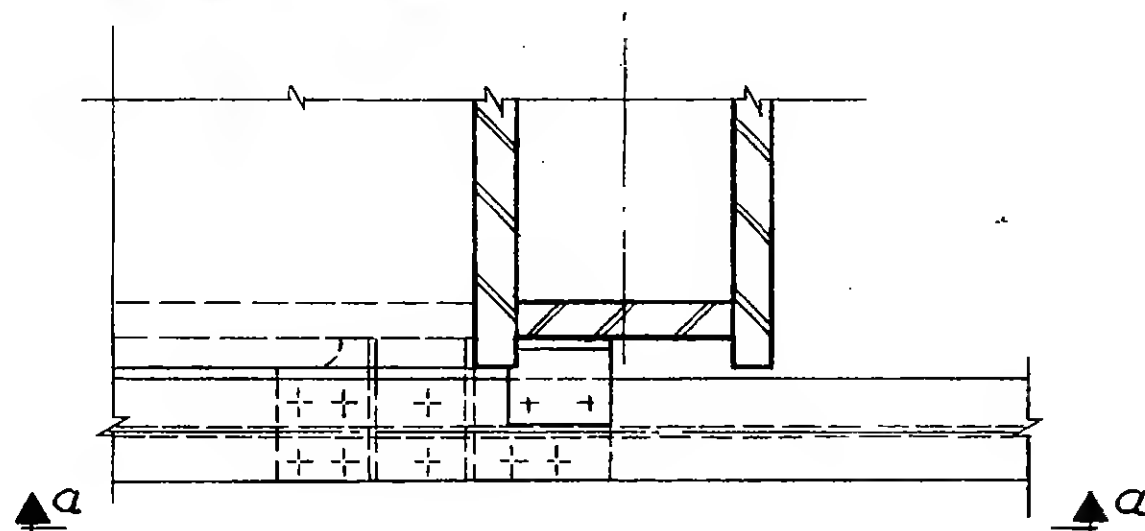
TITLE

CONNECTION DETAIL 2052

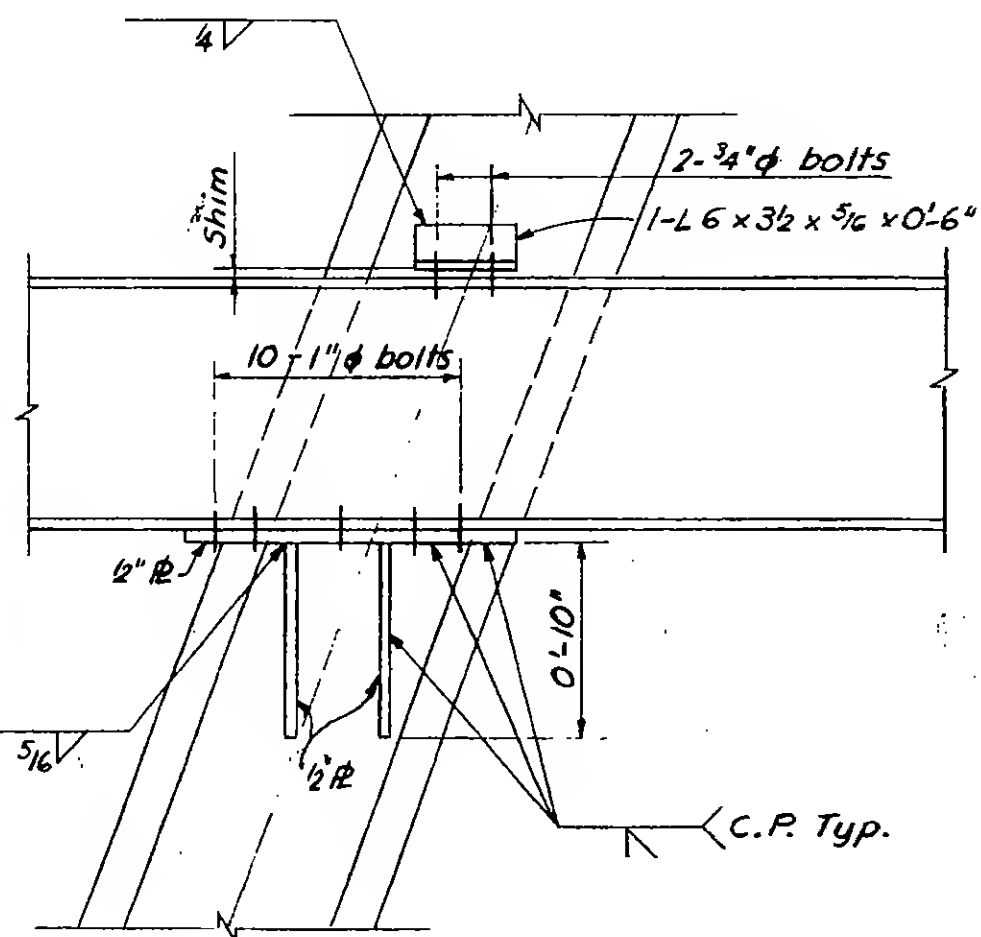
DATE

2-9-68

REVISIONS



Plan



Section a-a



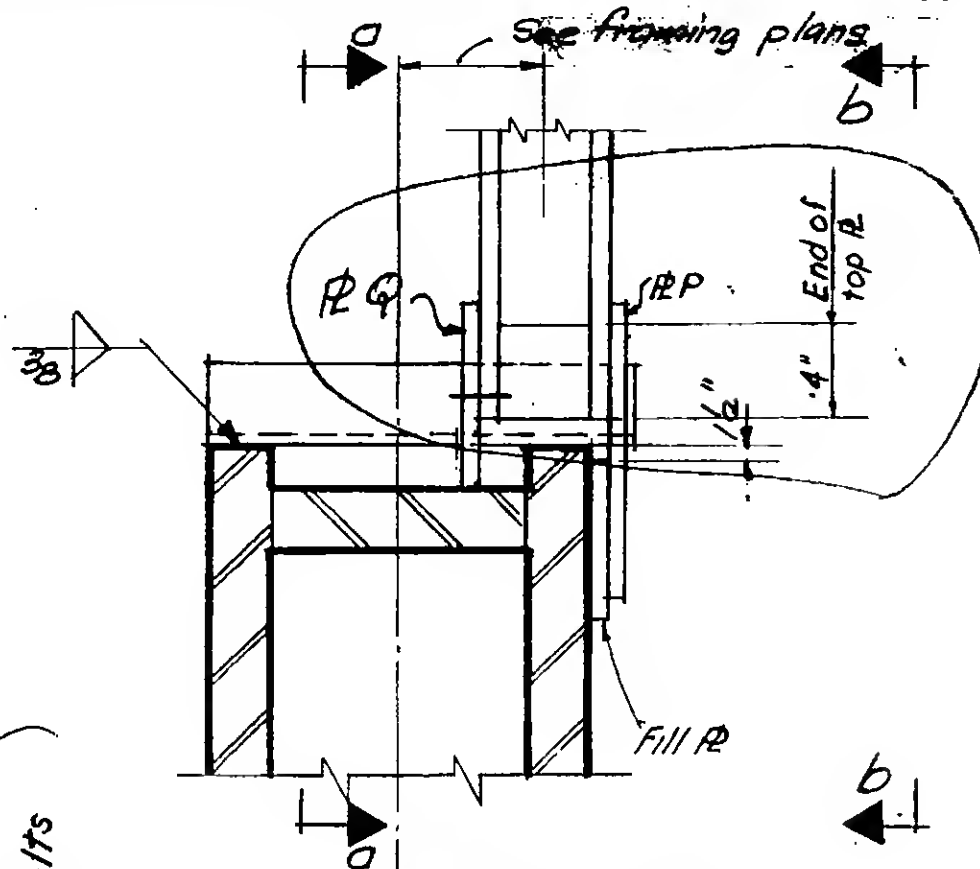
6-ABI-9.10

REVISIONS

7-28-67

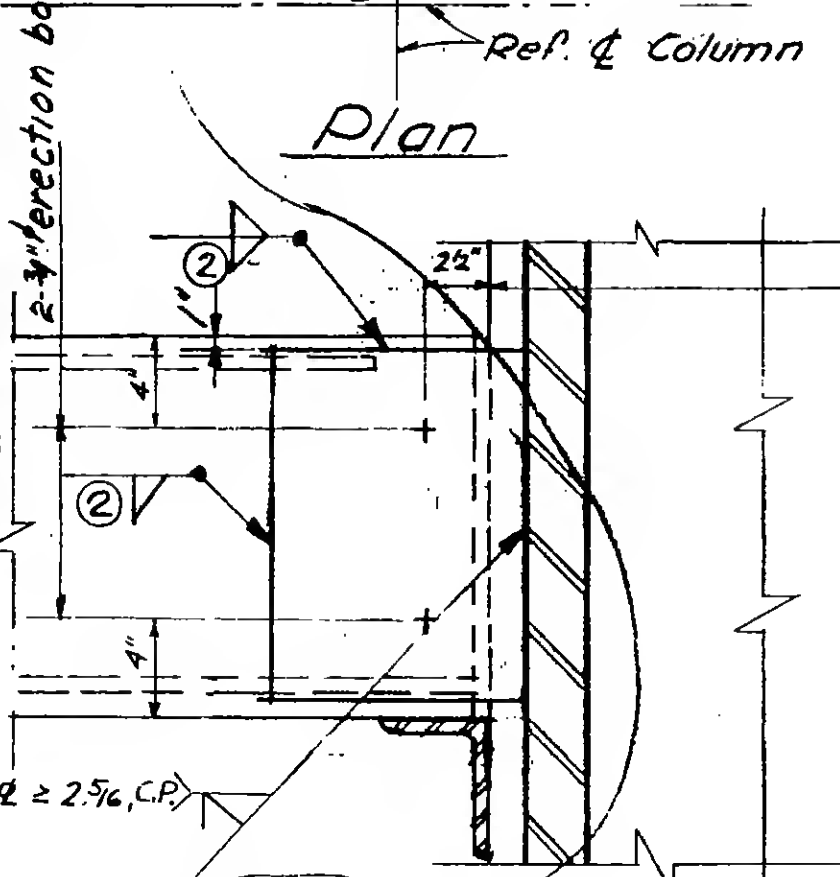
9-15-67

11-14-67



→ Ref. & Column

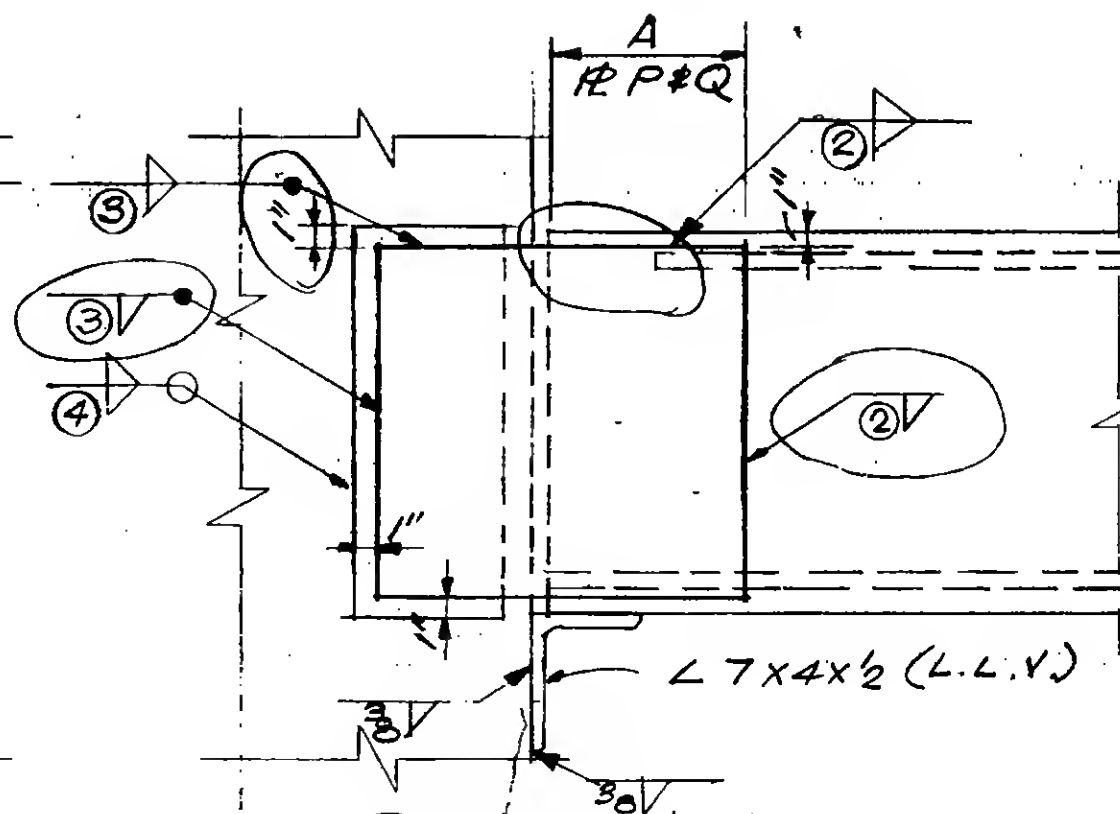
Plan



Col. $R \geq 2.5/c$, C.P.)

Col. $\phi \leq 24$

Section a-a

 $7 \times 4 \times \frac{1}{2}$ (L.L.V.)

Section b-b



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TITLE SCHEDULE FOR DETAIL 206 A & B

DATE 7-28-67

[illegible]

6-ABI-11.1

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PROJECT THE WORLD TRADE CENTER

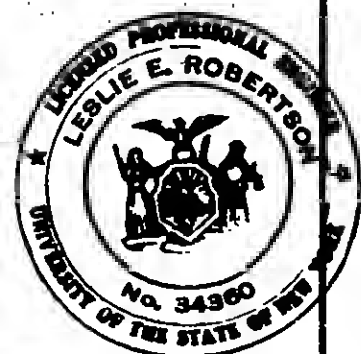
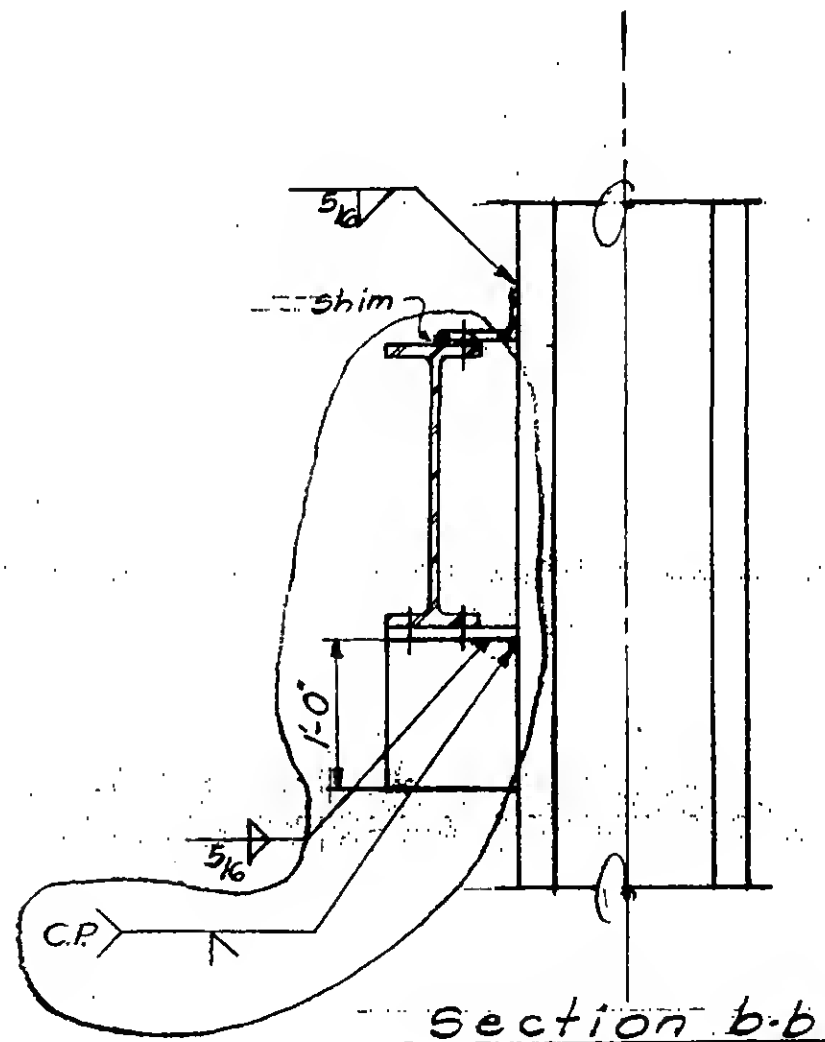
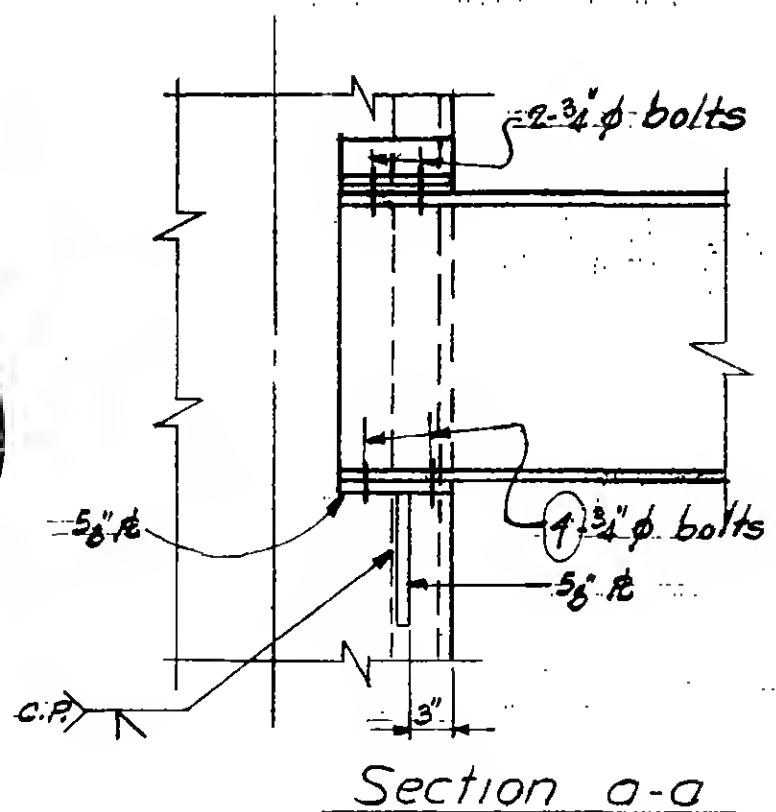
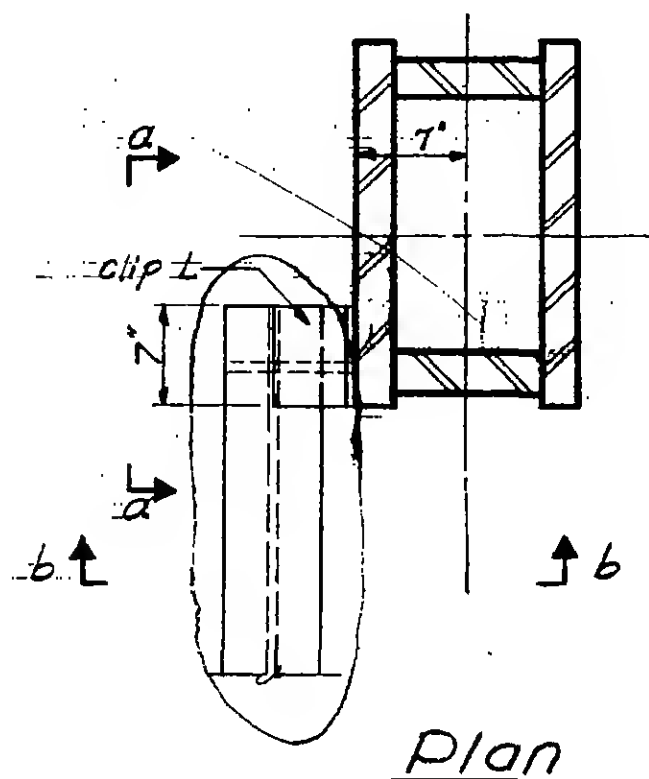
TITLE CONNECTION DETAIL 207A

DATE 5-22-67

REVISIONS

10-2-67

1-24-68



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TITLE SCHEDULE FOR DETAIL 208 A - F

DATE 6 - 30 - 67

REVISIONS

7 - 28 - 67

8 - 5 - 67

9 - 15 - 67

REF. DWGS.	6 - ABI - 13	6 - ABI - 13.2	6 - ABI - 13.3	6 - ABI - 13.2	6 - ABI - 13.2	6 - ABI - 13.2
208A	208B	208C	208D	208E	208F	
PLATES						
P	7" x 1/4"	6" x 1/2"	6" x 9/16"	6" x 3/4"	6" x 5/8"	6" x 1/2"
Q	17" x 14" x 3/4"	1/2"	9/16"	3/4"	3/4"	1/2"
R	17" x 14" x 3/4"	1/2"	9/16"	3/4"	3/4"	1/2"
S	—	—	13/16"	—	—	—
ANGLES						
T	3/2 x 3/2 x 3/8 x 0'-8 1/2"	4 x 3/2 x 4	4 x 3/2 x 1/4	4 x 3/2 x 1/4	4 x 3/2 x 5/16	4 x 3/2 x 5/16
DIMENSIONS						
B	1'-4"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"
BOLTS						
J	3 - 3/8" φ (A325)	2 - 3/4" φ	3 - 3/4" φ	3 - 3/4" φ	3 - 3/4" φ	3 - 3/4" φ
K	6 - 3/4" φ (A325)	6 - 3/4" φ	8 - 1" φ	8 - 1" φ	8 - 1" φ	6 - 3/4" φ
L	10 - 1/8" φ (A325)	6 - 3/4" φ	8 - 1" φ	8 - 1" φ	8 - 1" φ	6 - 3/4" φ
M	4 - 1/8" φ (A325)	2 - 3/4" φ	2 - 1" φ	2 - 1" φ	2 - 1" φ	2 - 3/4" φ
N	4 - 1/8" φ (A325)	4 - 3/4" φ	6 - 1" φ	6 - 1" φ	4 - 1" φ	4 - 3/4" φ
WELDS						
①	5/8	3/8	3/8	3/8	3/8	—
②	5/8	5/16	5/16	3/8	3/8	5/16
③	—	—	3/8	—	—	—
④	—	—	3/4	—	—	—
⑤	—	—	3/4	—	—	—
⑥	—	—	—	—	—	C.P.

6 - ABI - 13.1

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PROJECT

THE WORLD TRADE CENTER

TITLE

CONNECTION DETAIL 208 A

DATE

5-9-67

REVISIONS

6-30-67

7-28-67

9-15-67

Bolts K @ 3" c-c
each flange

Bolts N
@ 3" c-c each
flange

Bolts L @ 3" c-c
each flange

Bolts M
@ 3" c-c
each flange

Plan

Angle T

Shim

Bolts U @ 3" c-c
each leg

RP

Section a-a

C.P.

RP

RP

C.P.

Section b-b



PROJECT

THE WORLD TRADE CENTER

TITLE

CONNECTION DETAIL

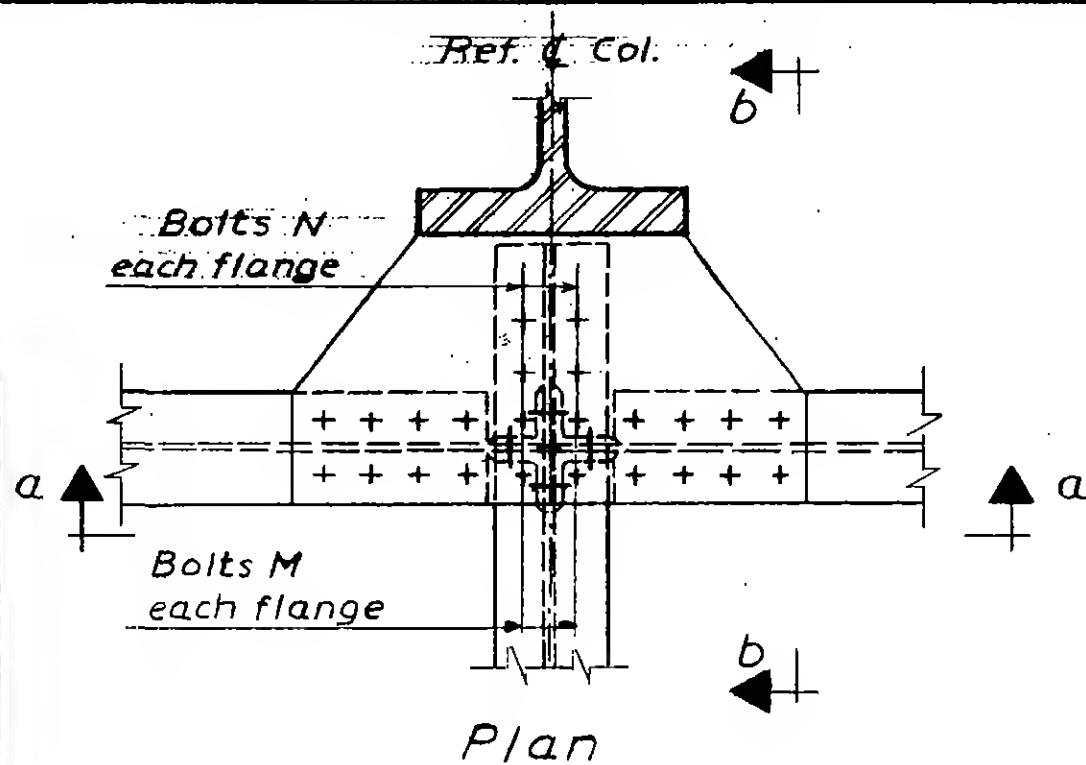
208-B, D, E, F, G & H

DATE

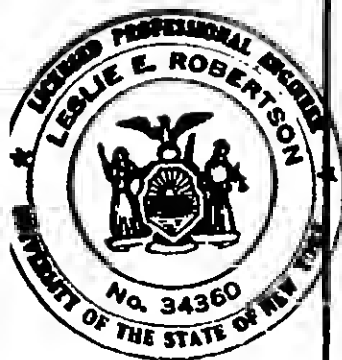
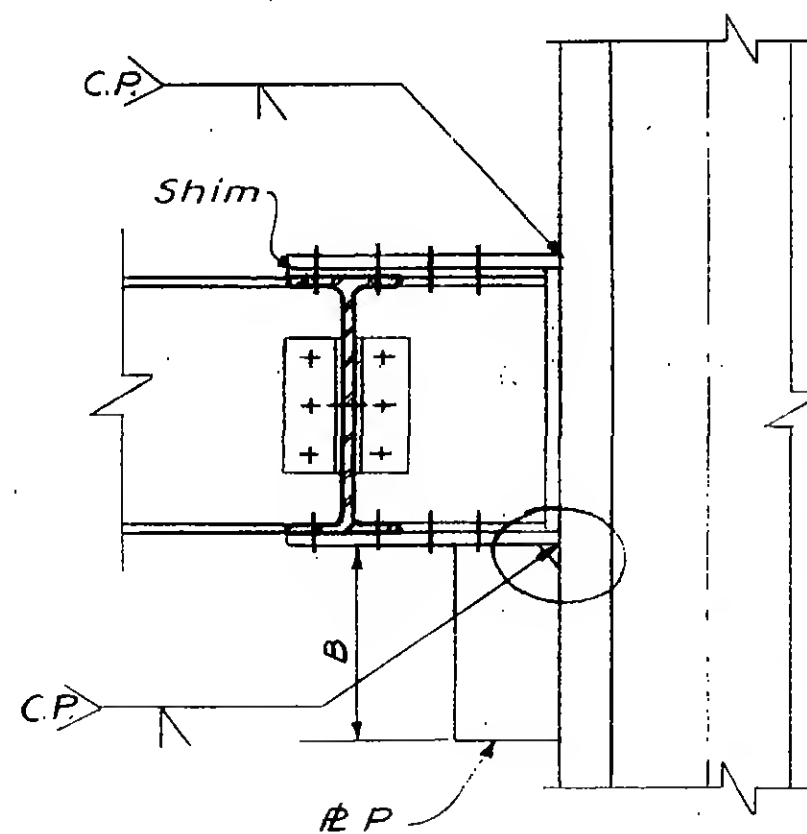
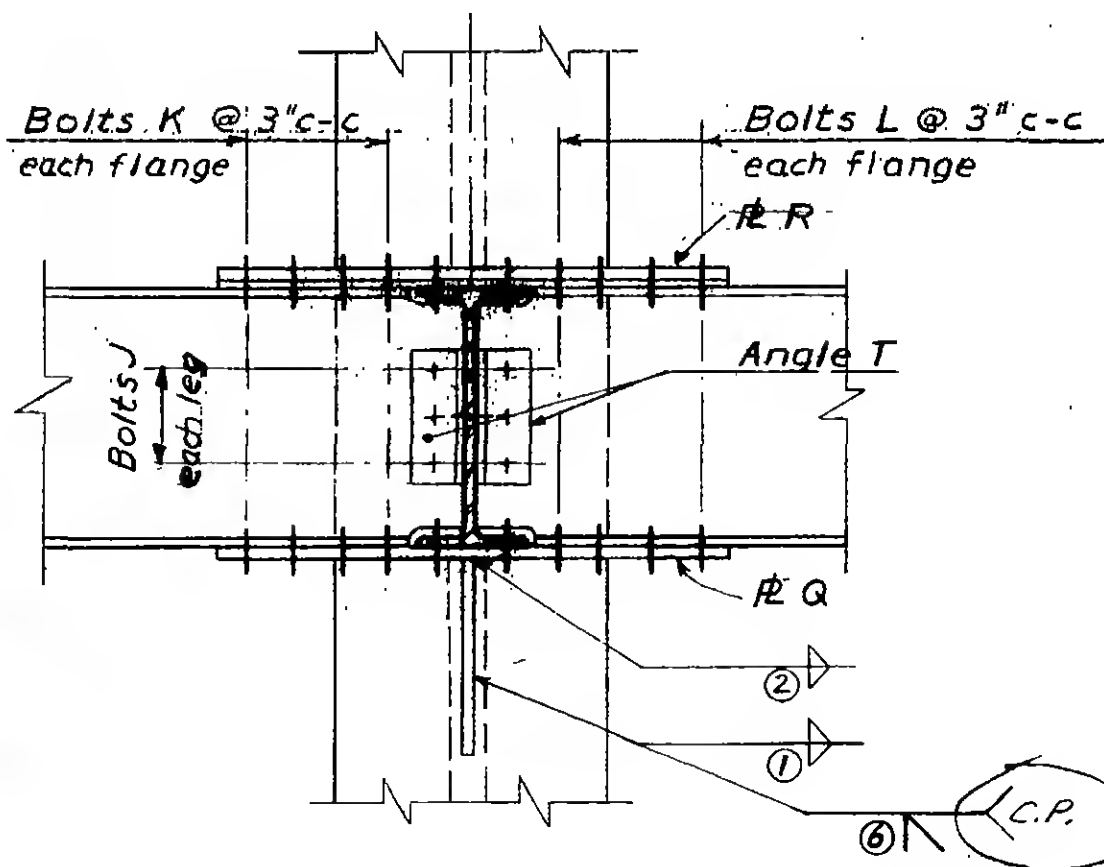
7-28-67

REVISIONS

9-15-67



6-ABI-13.1 for Sched 208 D-F
6-ABI-13.4 for Sched. 208 G&H



PROJECT THE WORLD TRADE CENTER

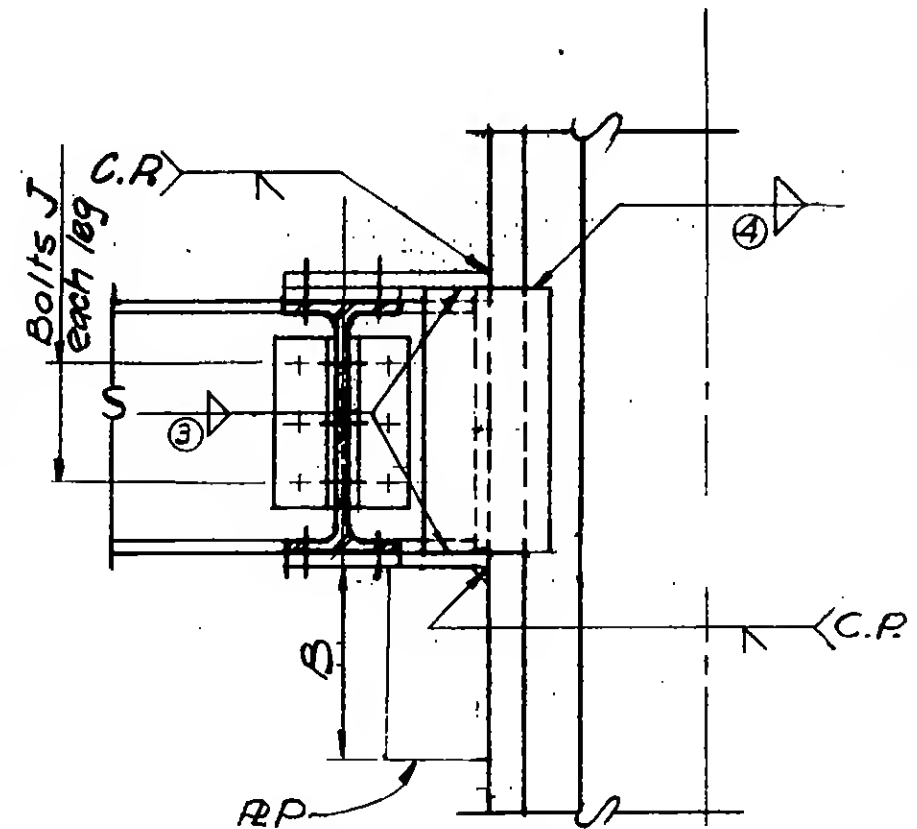
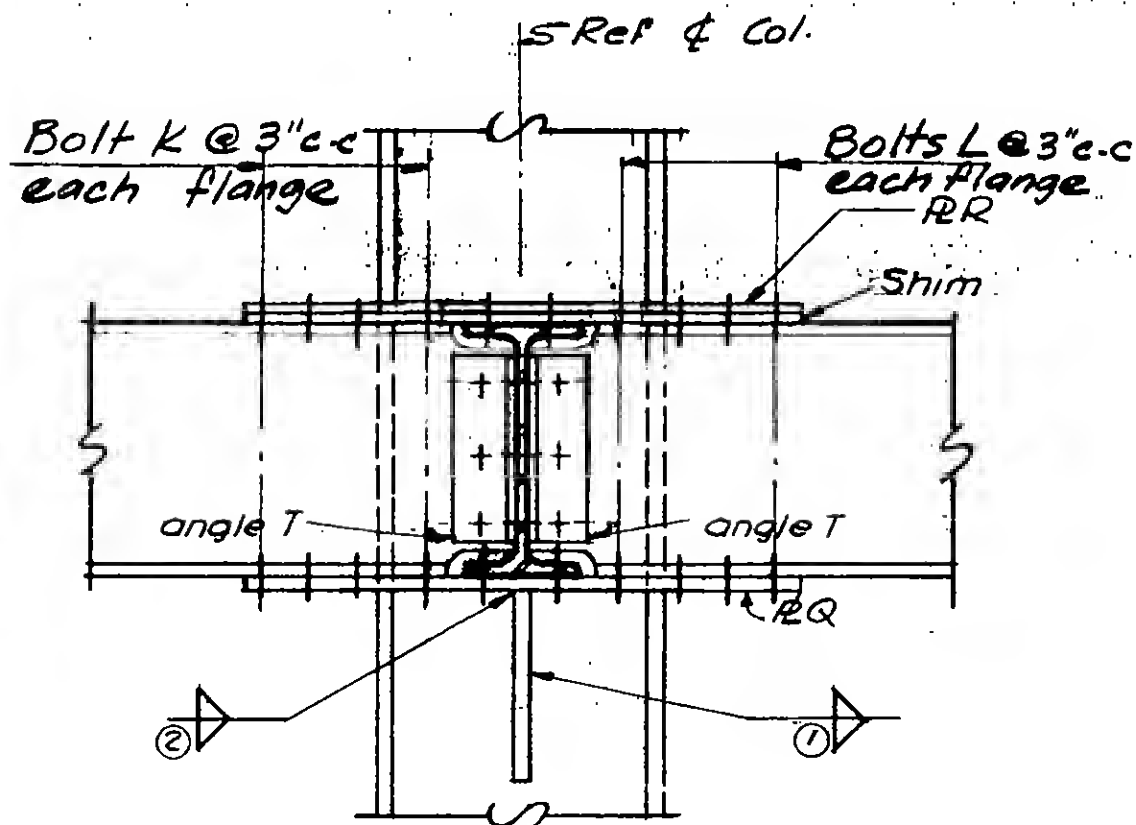
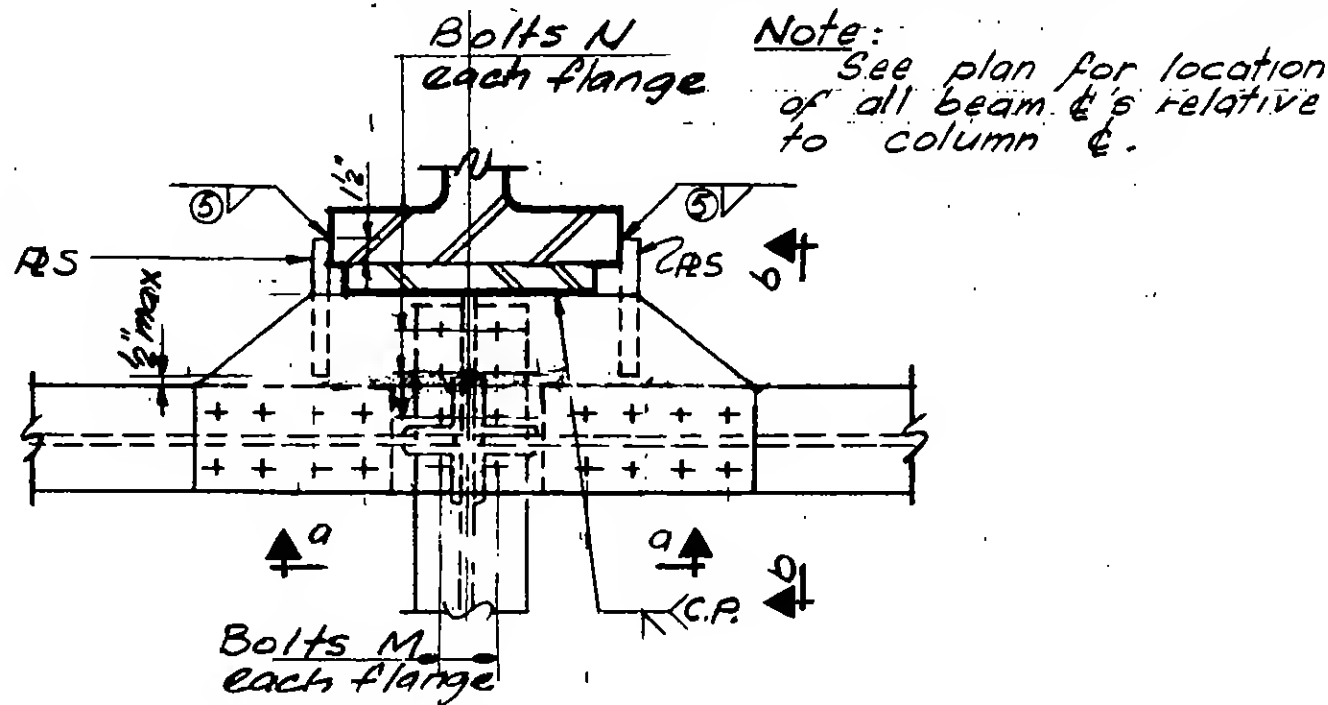
TITLE CONNECTION DETAIL 203 C

DATE 5-9-67

REVISIONS

7-28-67

9-15-67



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THE WORLD TRADE CENTER

TITLE

SCHEDULE FOR DETAIL 208 G&H.T

DATE

B-5-67

REVISIONS

9-15-67

10-5-67

Ref. Dwg.	G-AB1-13.2	G-AB1-13.2	G-AB1-13.5
	208G	208H	208I
PLATES			
P	6x $\frac{1}{2}$ "	6x58"	7x58"
Q	12"	58"	58"
R	12"	58"	34"
S	-	-	-
ANGLES			
T	4x3 $\frac{1}{2}$ x $\frac{5}{16}$	4x3 $\frac{1}{2}$ x $\frac{5}{16}$	-
BOLTS			
J	3-34" ϕ	4-34" ϕ	-
K	5-34" ϕ	6-34" ϕ	8-1 $\frac{1}{8}$ " ϕ
L	6-34" ϕ	6-34" ϕ	-
M	2-34" ϕ	2-34" ϕ	4-34" ϕ
N	4-34" ϕ	4-34" ϕ	4-34" ϕ
DIMENSION			
B	1'-0"	1'-0"	1'-0"
WELDS			
①	-	-	$\frac{5}{16}$
②	$\frac{5}{16}$	$\frac{5}{16}$	-
③	-	-	-
④	-	-	-
⑤	-	-	-
⑥	C.P.	C.P.	-

G-AB1-13.4

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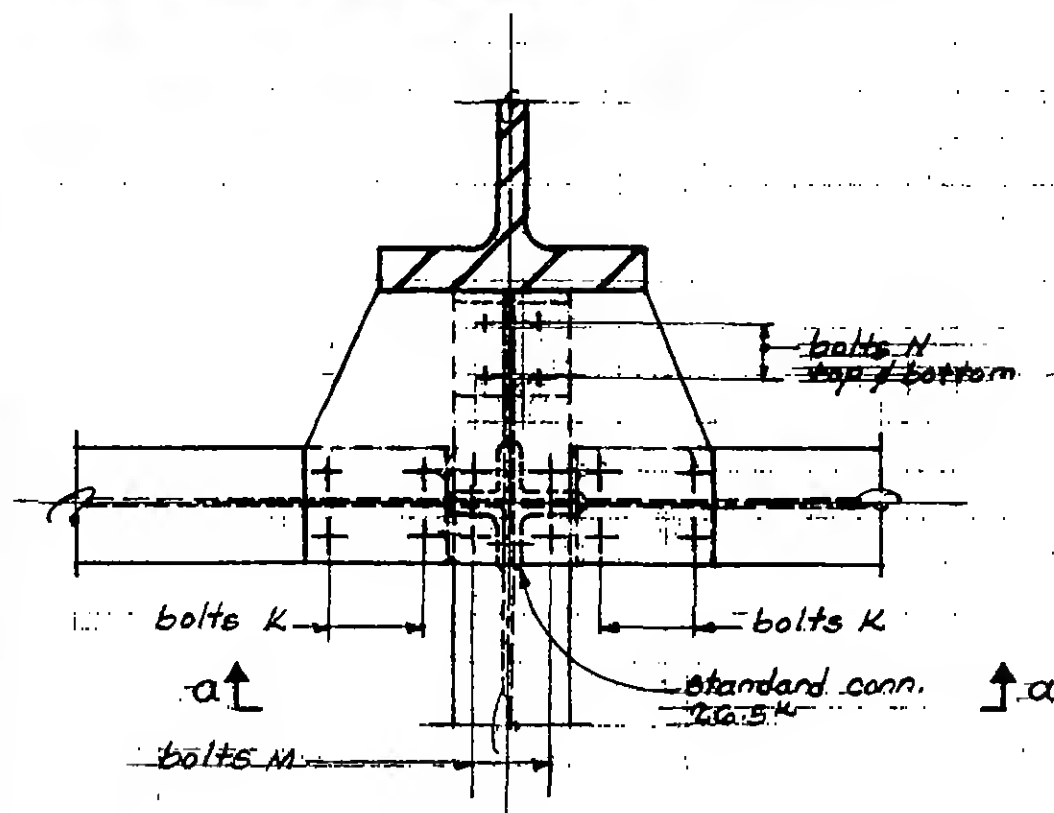
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PROJECT THE WORLD TRADE CENTER

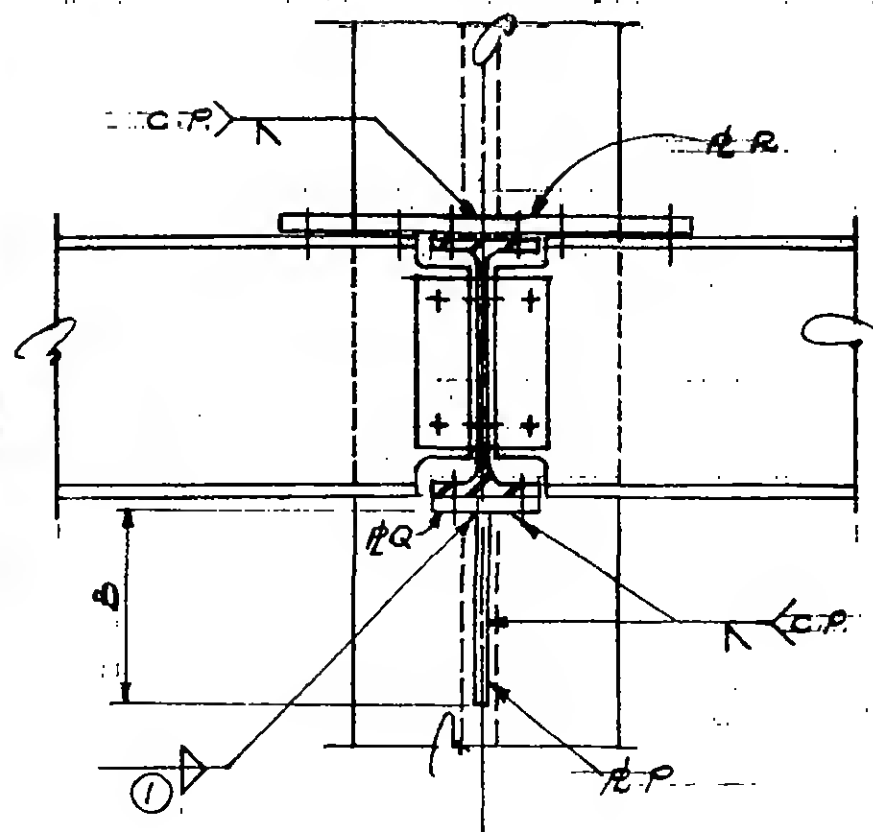
TITLE CONNECTION DETAIL 208 I

DATE 10-5-67

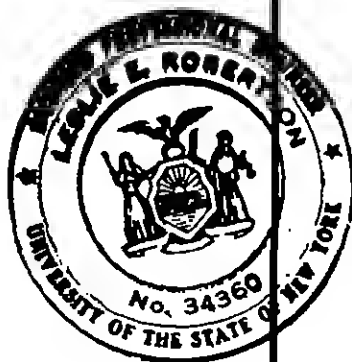
REVISIONS



PLAN



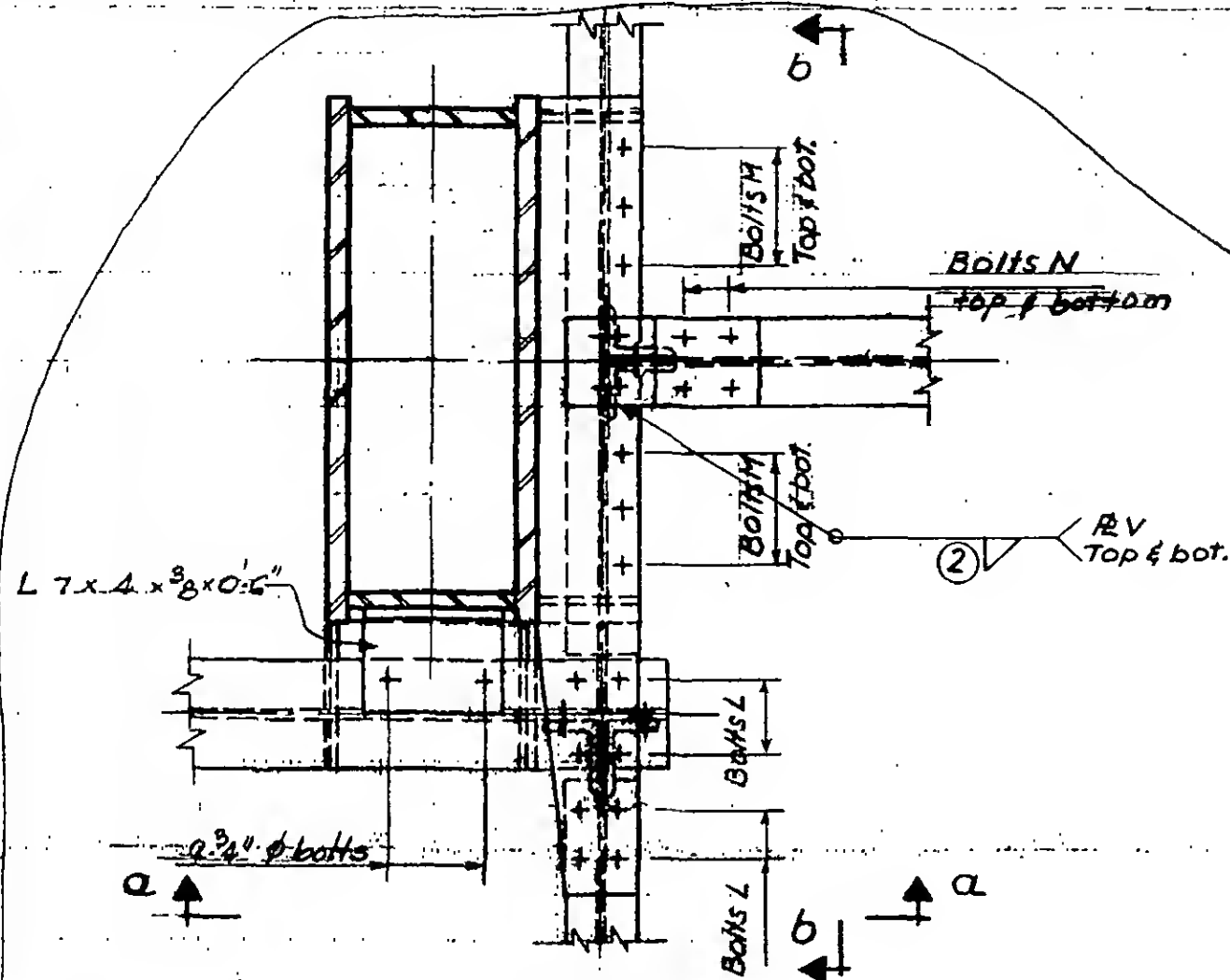
Section a-a



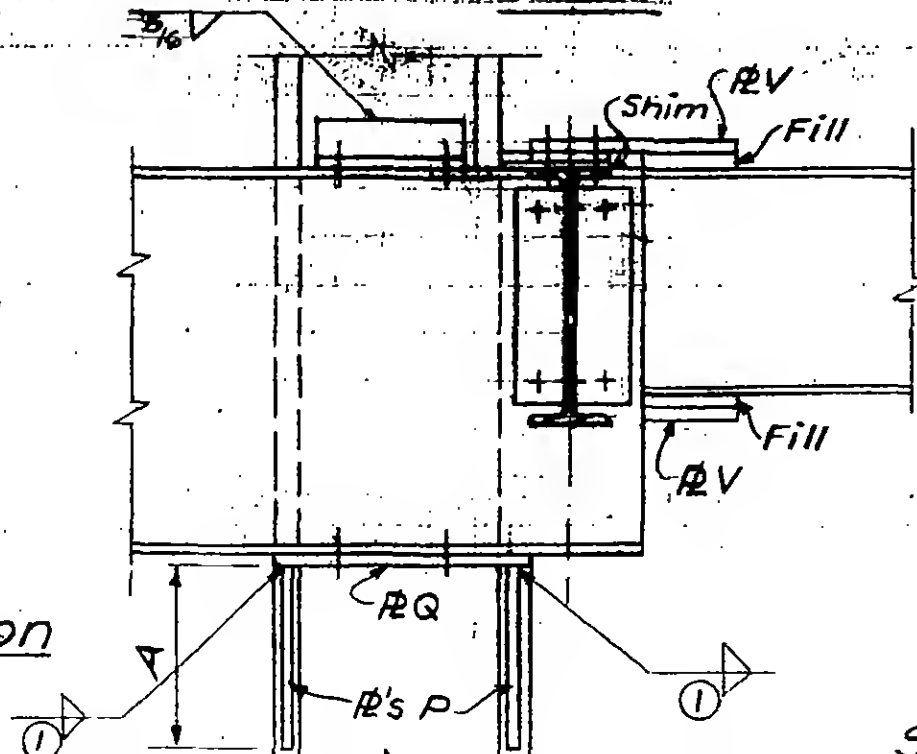
G-ABI-13.5

REVISIONS

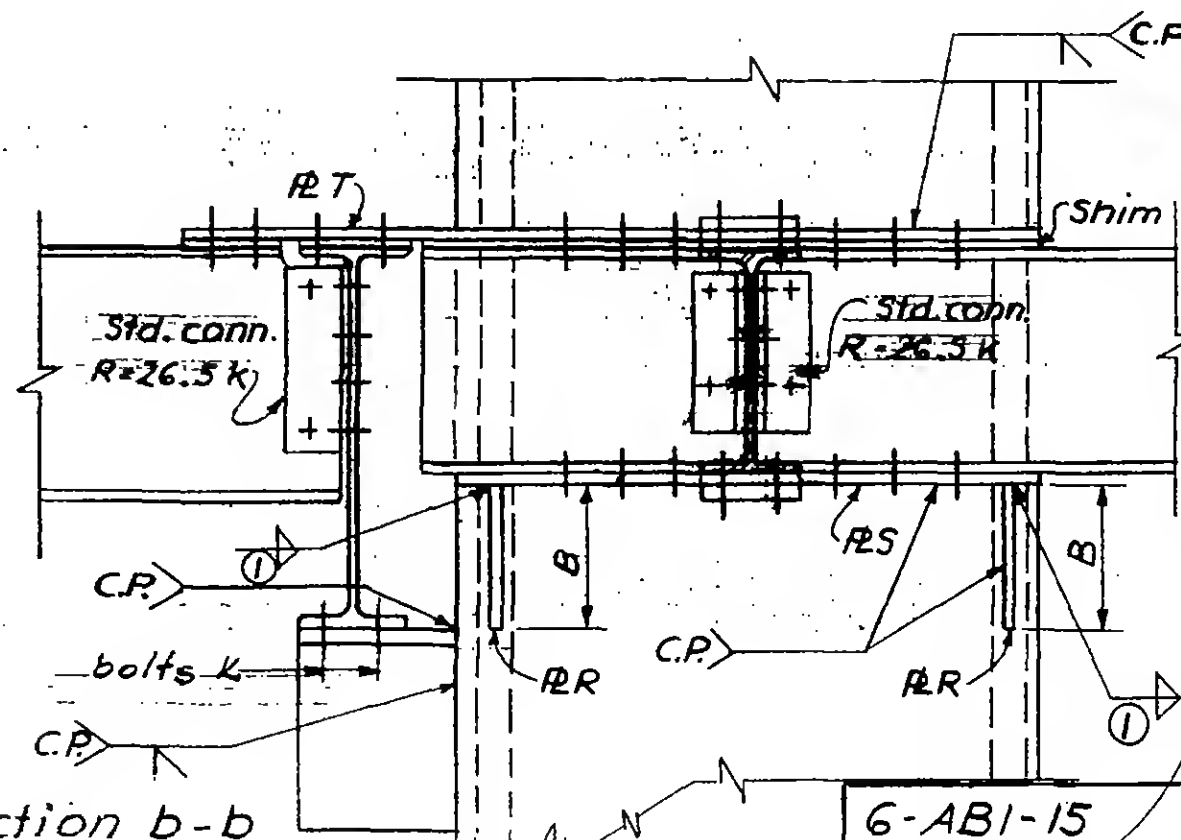
10-7-67



Plan

Section
a-a

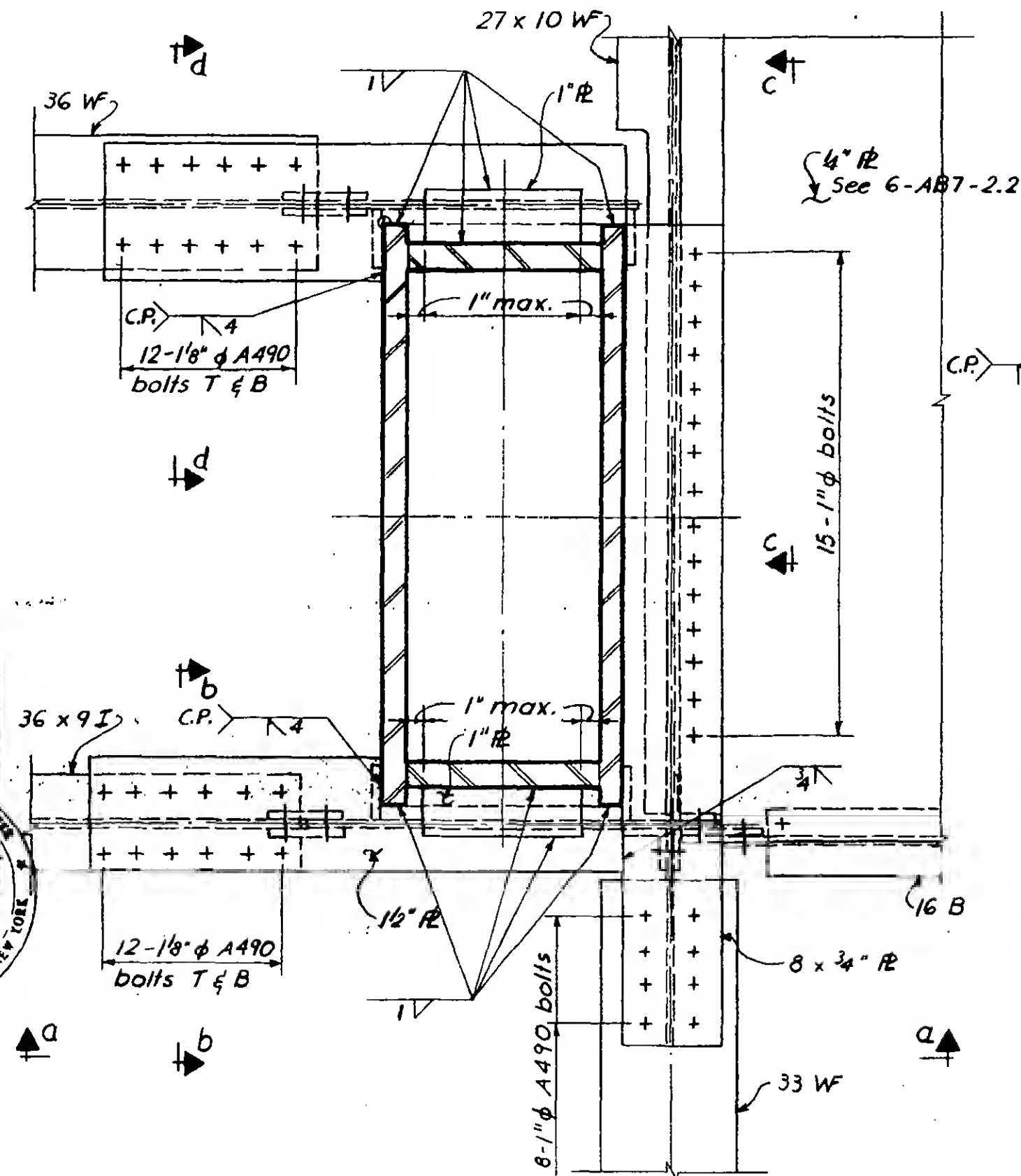
Section b-b



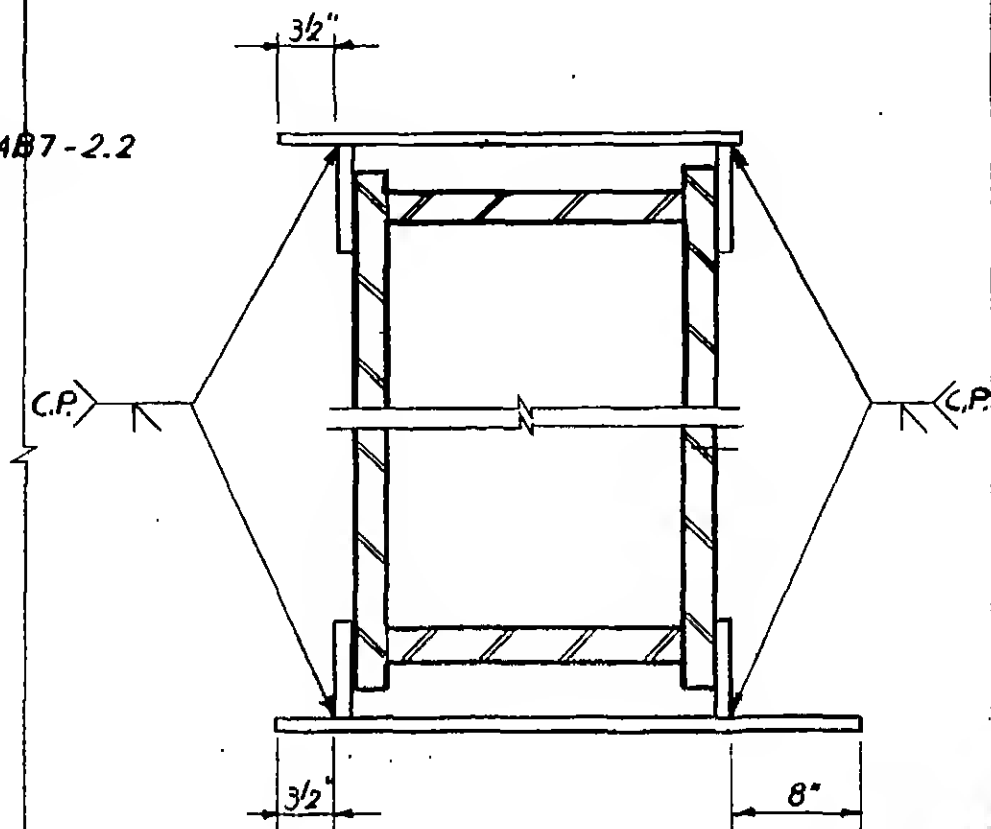
6-ABI-15



REVISIONS

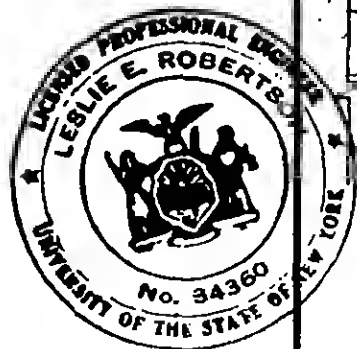


Plan



Detail 1

See 6-AB1-15.3 for sections



PROJECT

THE WORLD TRADE CENTER

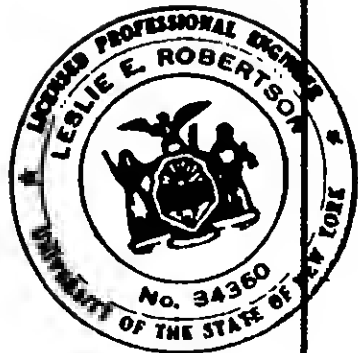
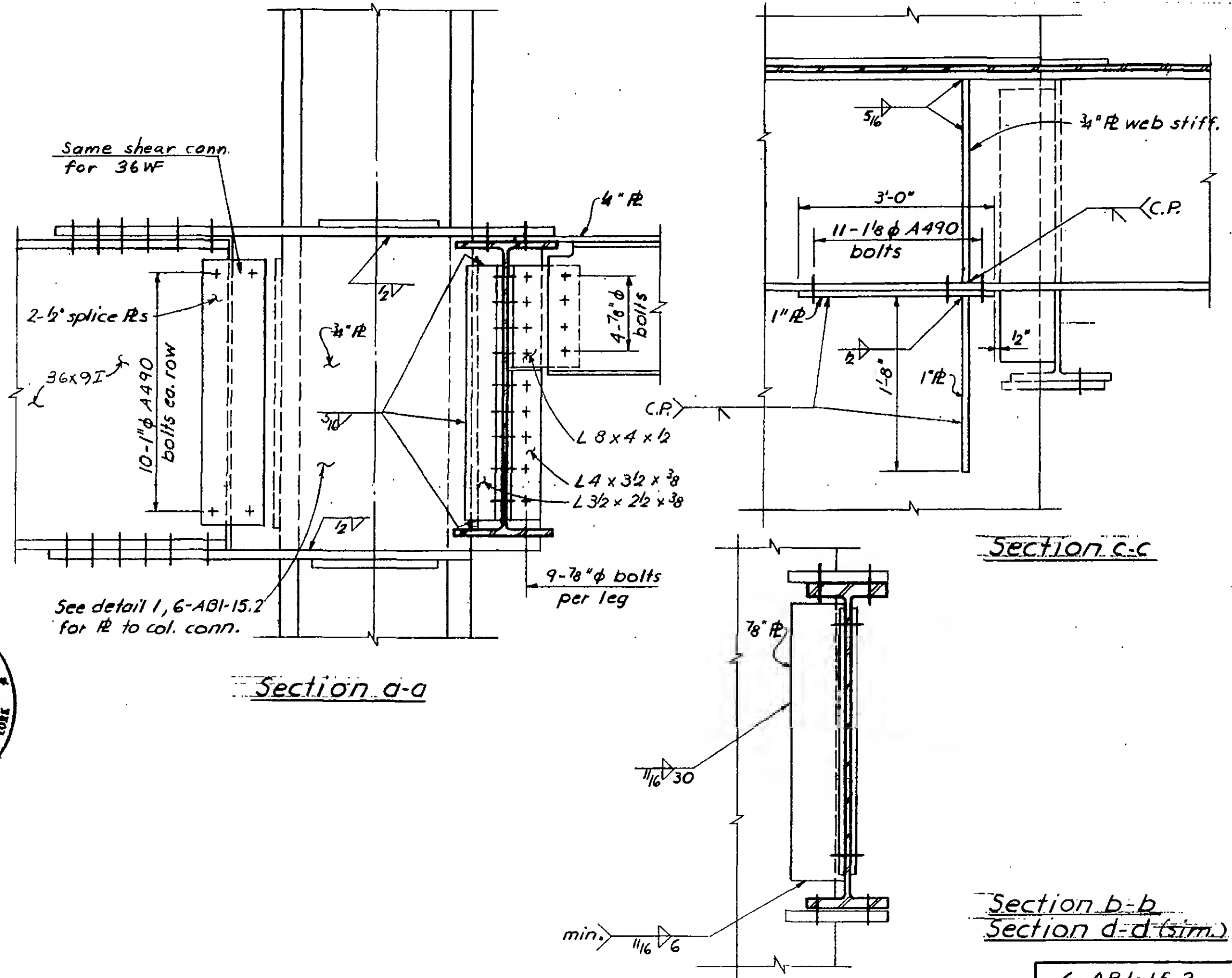
TITLE

CONNECTION DETAIL 209B

DATE

4-17-68

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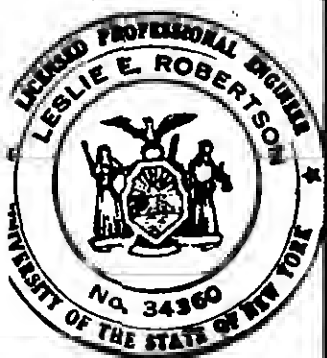
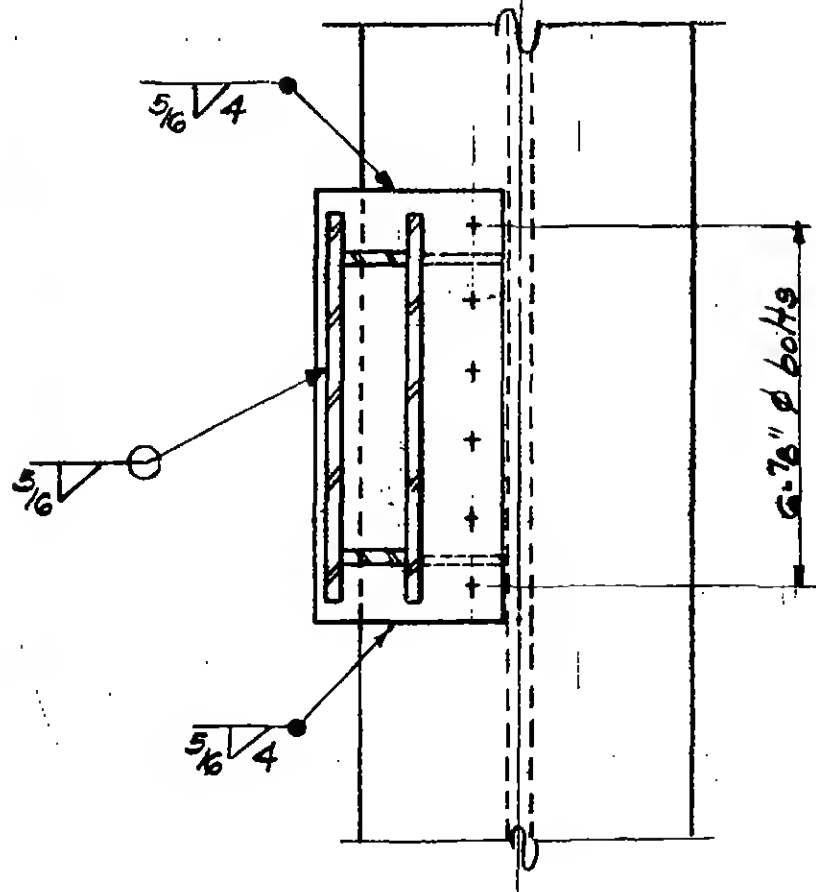
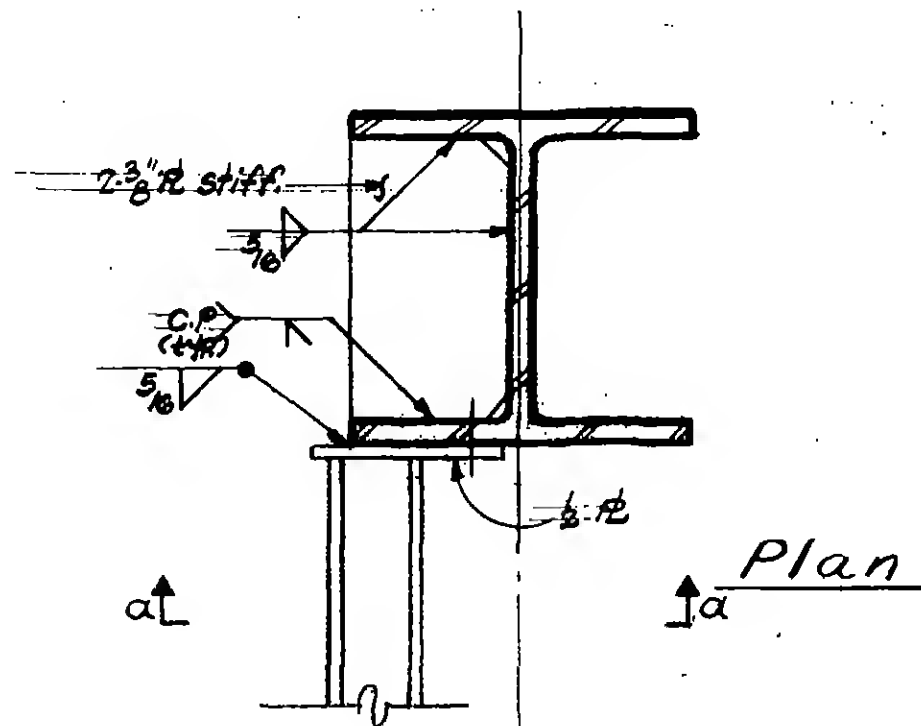
PROJECT THE WORLD TRADE CENTER

TITLE CONNECTION DETAIL 210 A

DATE 6-30-67

REVISIONS

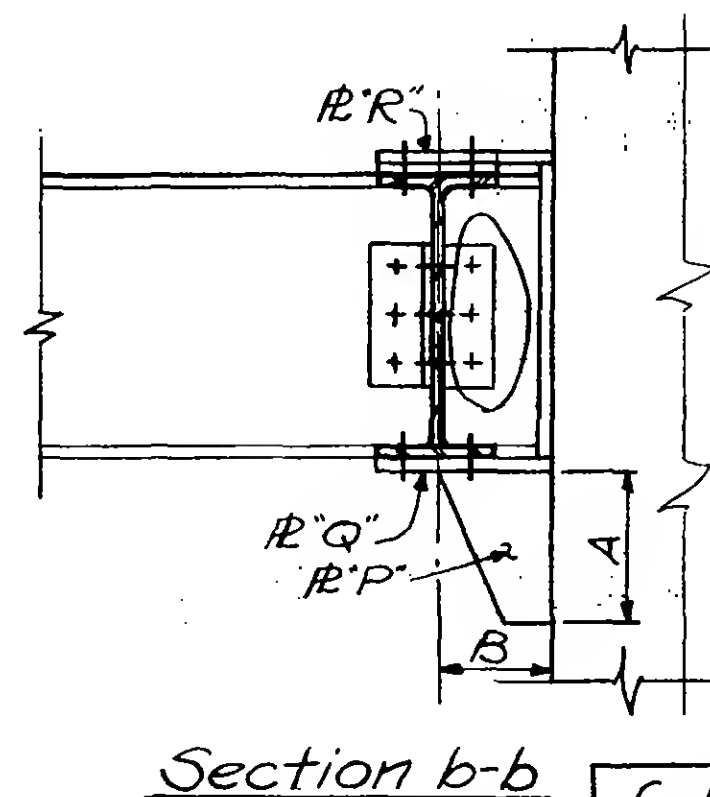
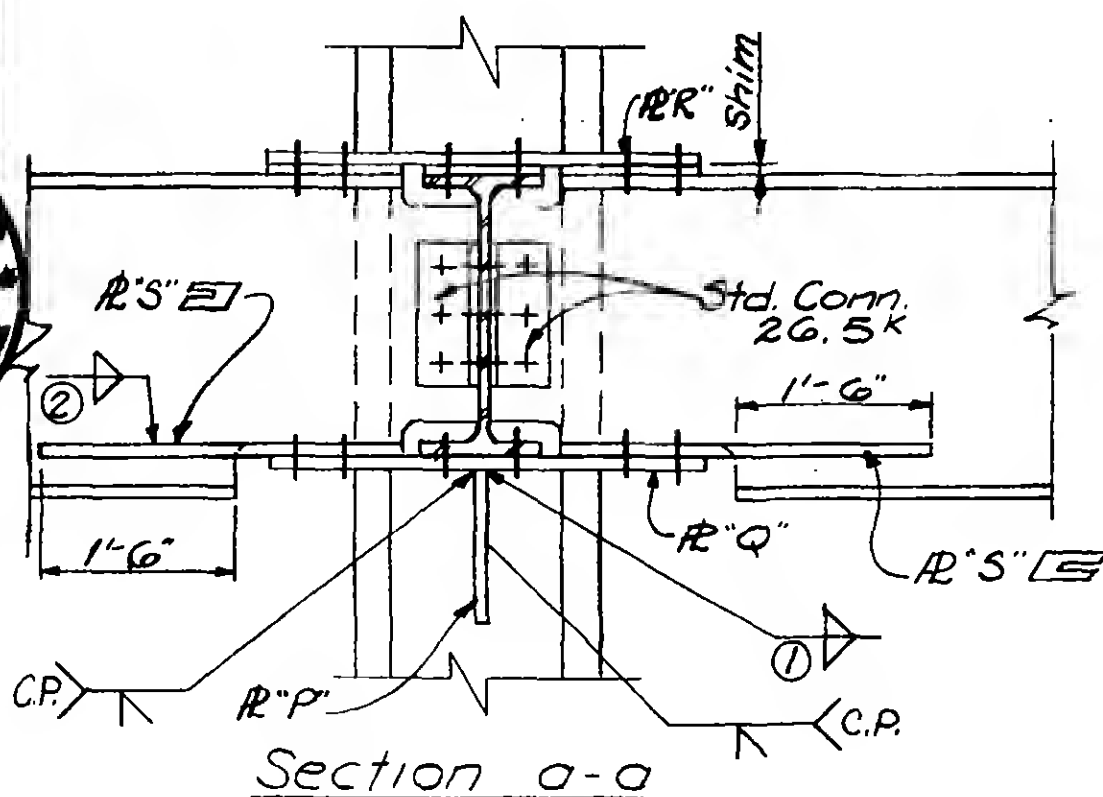
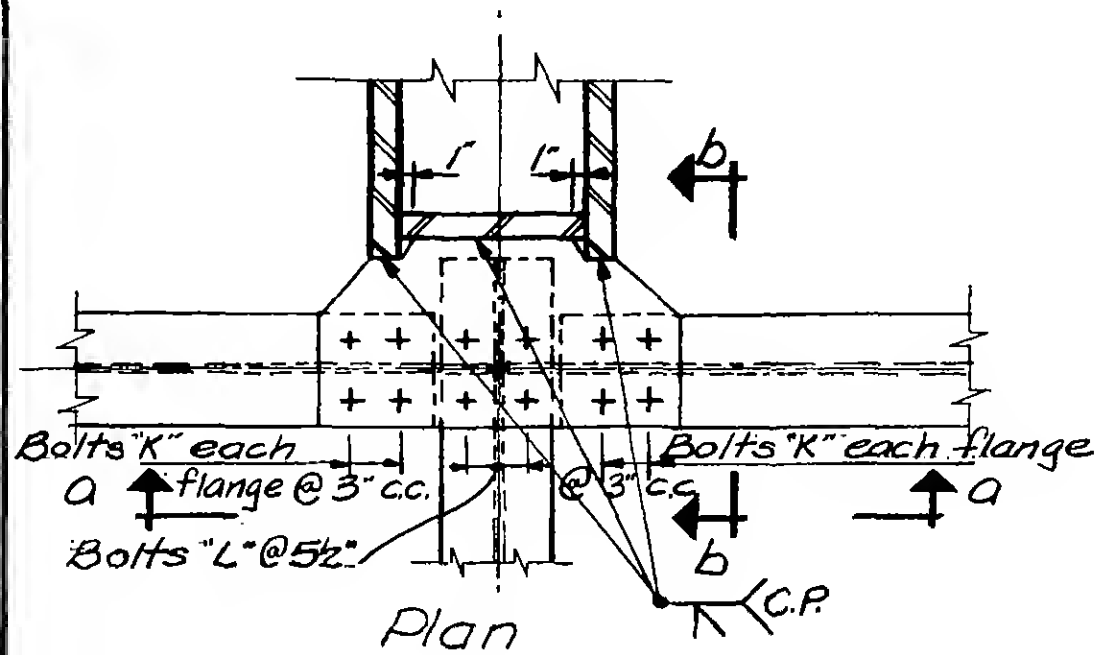
10-5-67



6-ABI-16

REVISIONS

9-15-67



Structural & Civil Engineers

TITLE SCHEDULE FOR DETAIL 211 A, B

DATE 9-15-67

10-2-67

211A

211B

PLATES

P	34°
-----	------------

1

Q	34
---	----

1

R	58 ⁴
---	-----------------

1/2"

5	8' x 11/16"
---	-------------

DIMENSIONS

A	1'-3"
---	-------

1' 4"

B	0'-8 1/2"
---	-----------

0-9"

BOLTS

K	4-3/4"φ
---	---------

L	4-3/4" ϕ
---	---------------

4-3/4"φ

WELDS

①	5/10
---	------

5.6

②	5/16"
---	-------

NAME _____



G-ABI-17.1

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PROJECT

THE WORLD TRADE CENTER

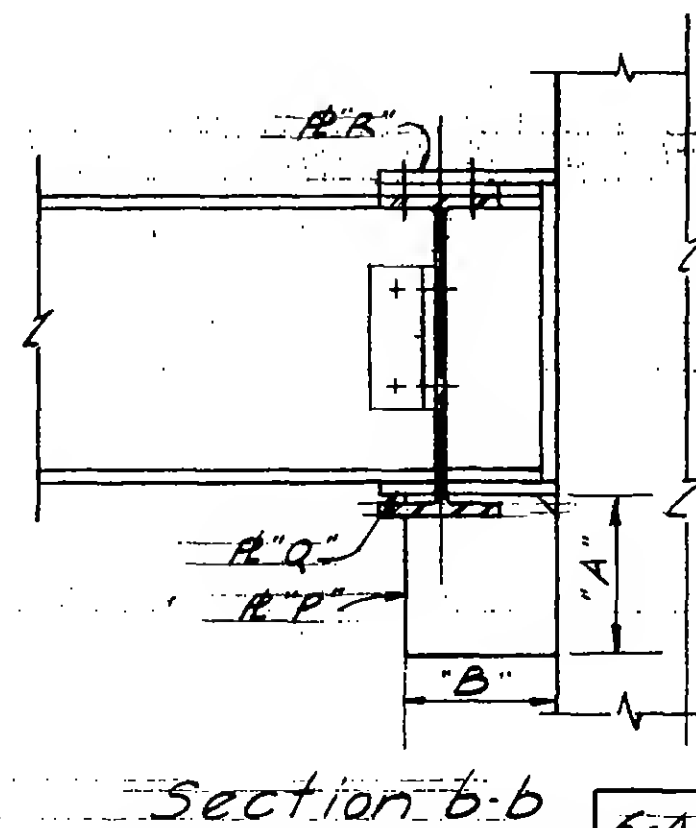
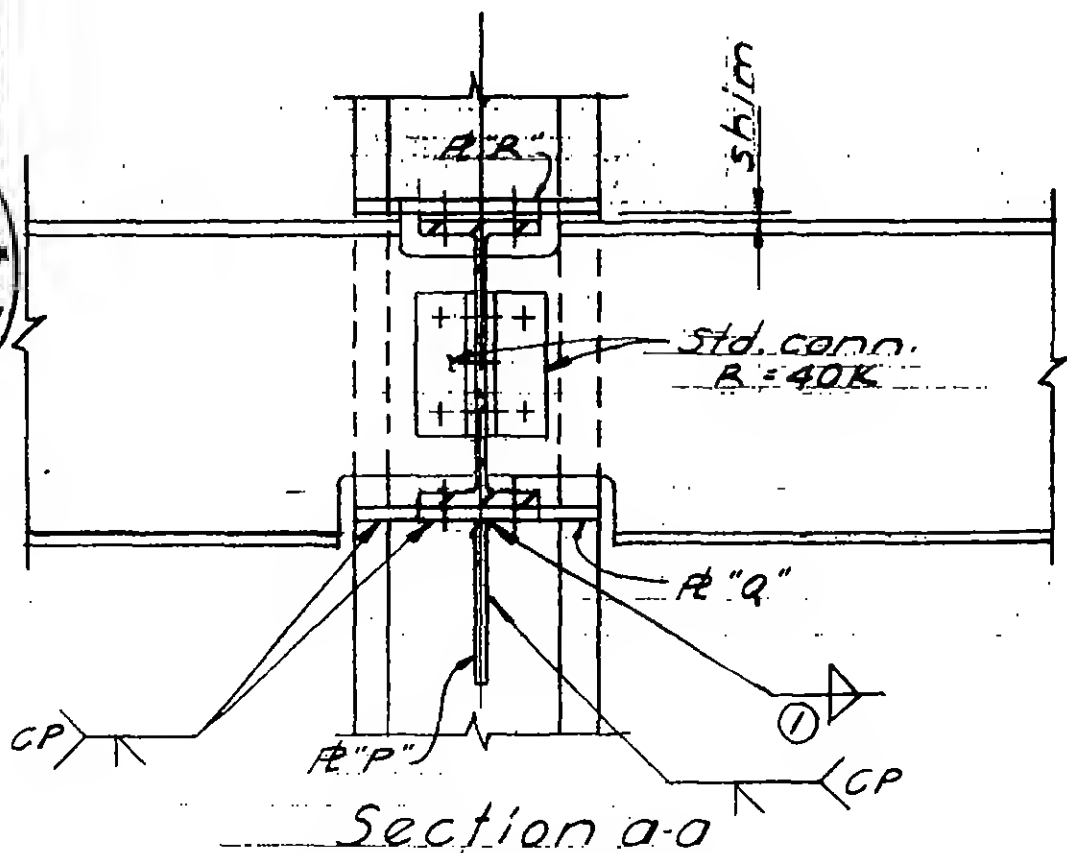
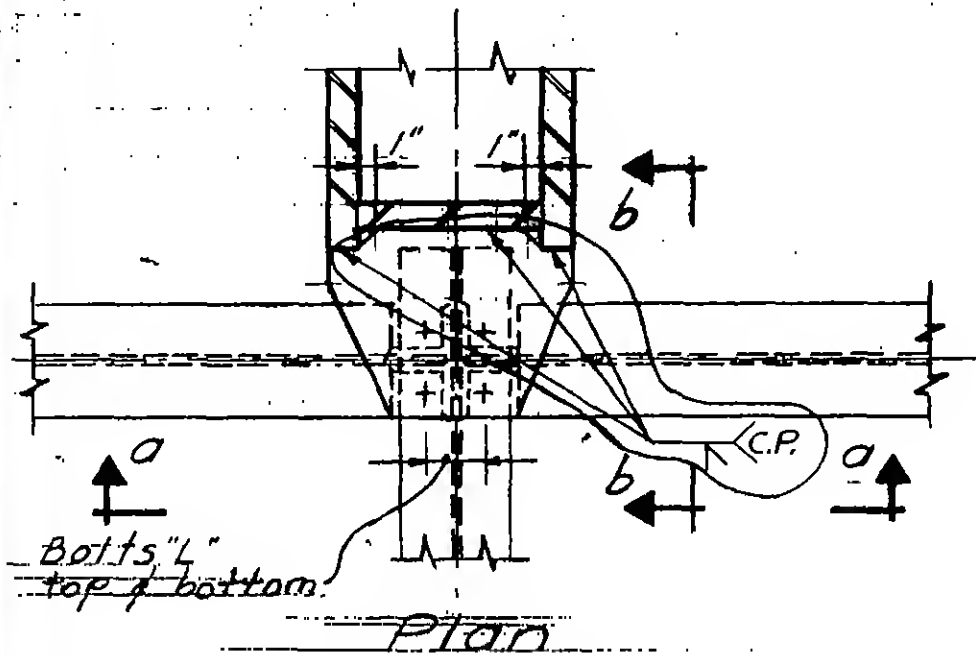
TITLE

CONNECTION DETAIL 211B

DATE

10-2-67

REVISIONS



6-ABI-17.2



SKILLING - HELLE - CHRISTIANSEN - ROBERTSON

Structural & Civil Engineers

PROJECT

THE WORLD TRADE CENTER

TITLE

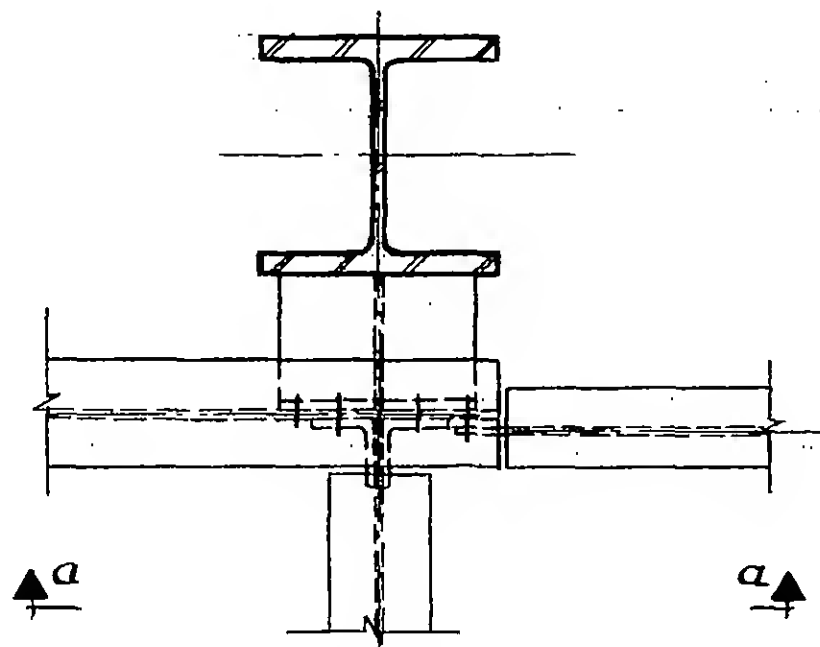
CONNECTION DETAIL 212

DATE

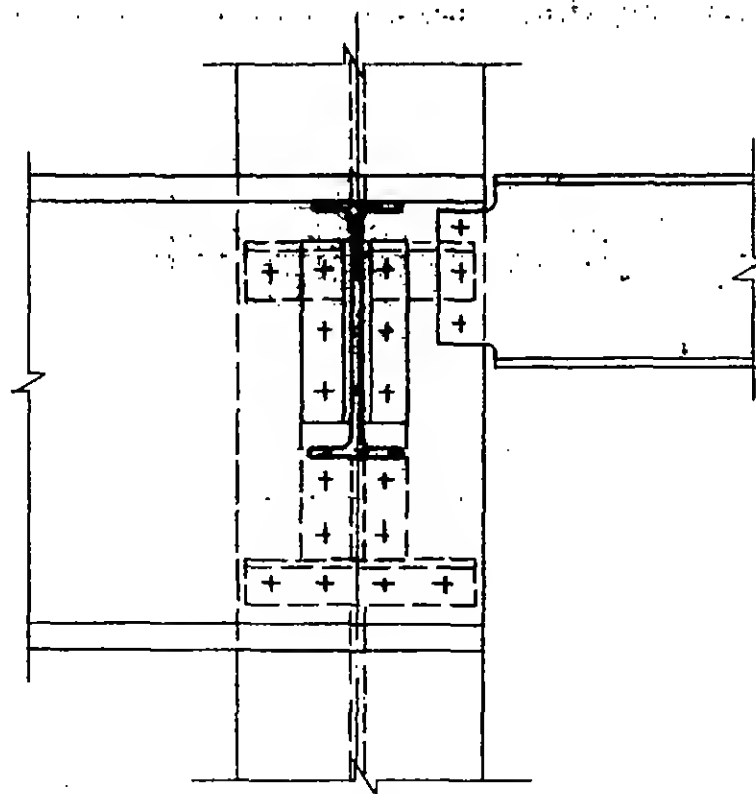
7-20-67

REVISIONS

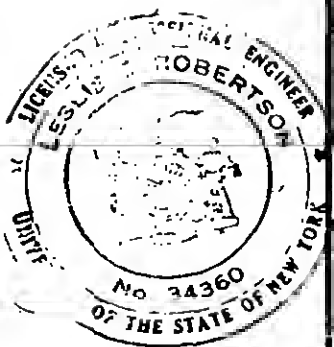
12-21-67



Plan



Section a-a



PROJECT

THE WORLD TRADE CENTER

TITLE

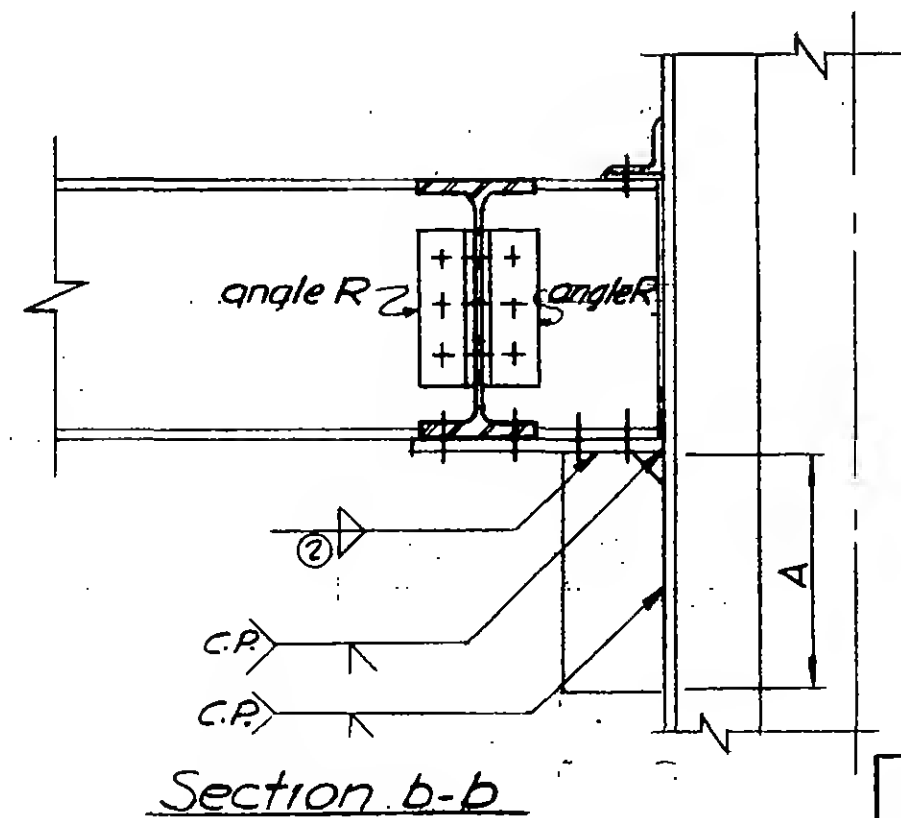
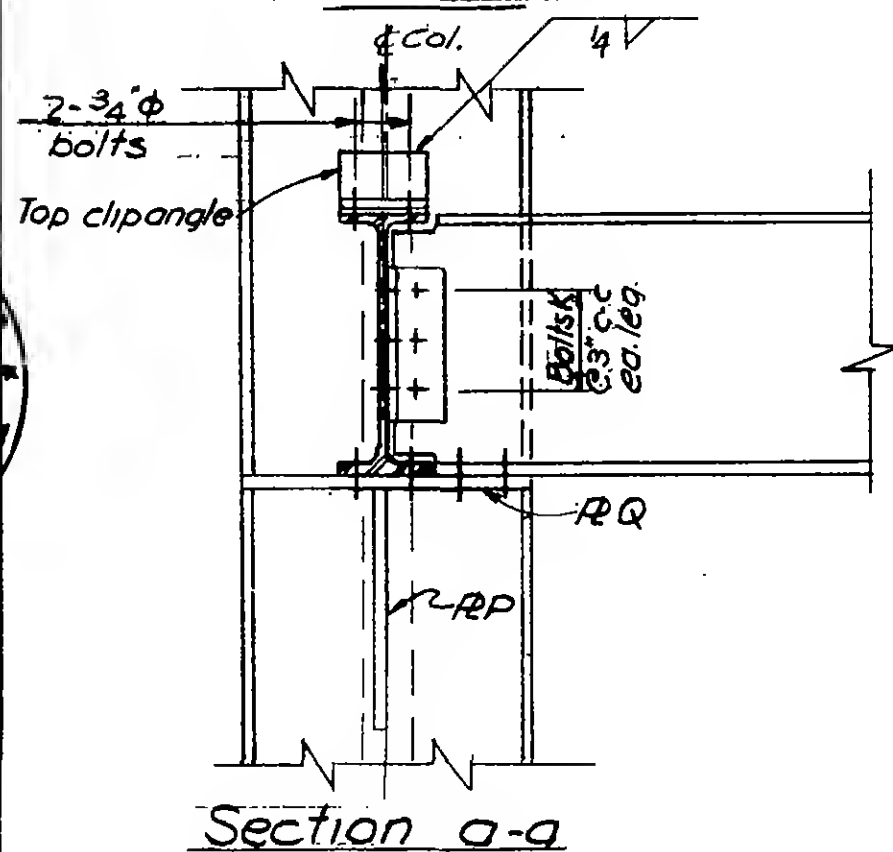
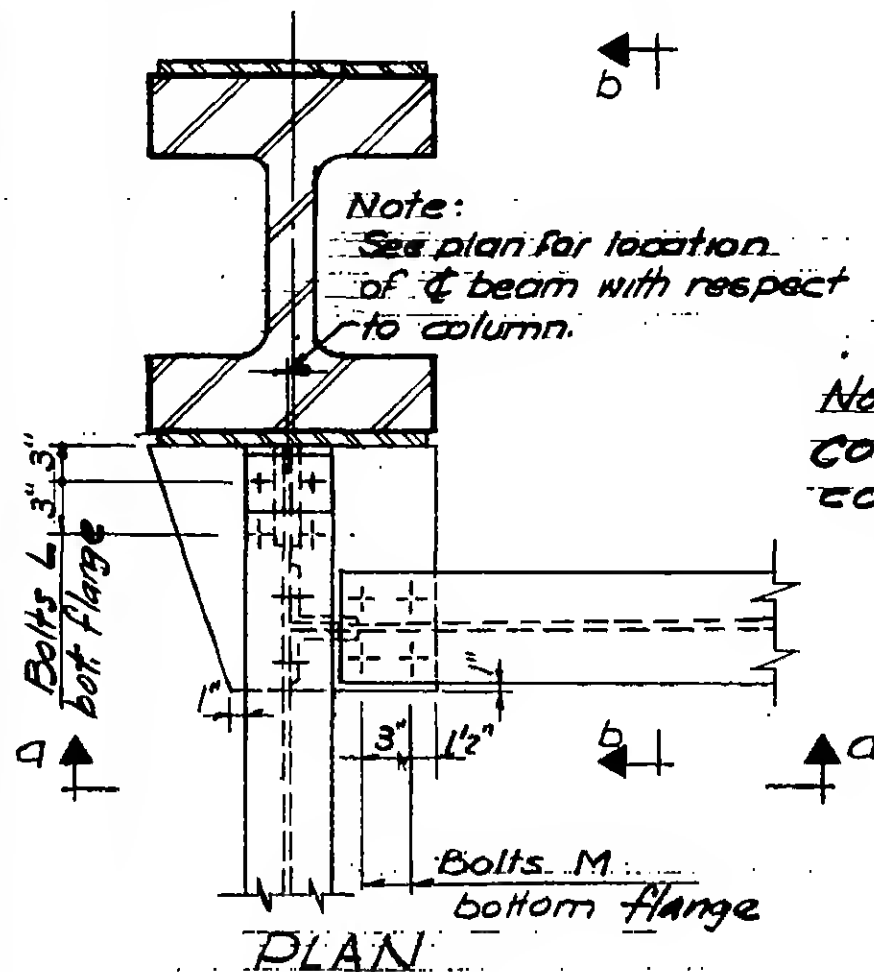
CONNECTION DETAIL 213 A

DATE

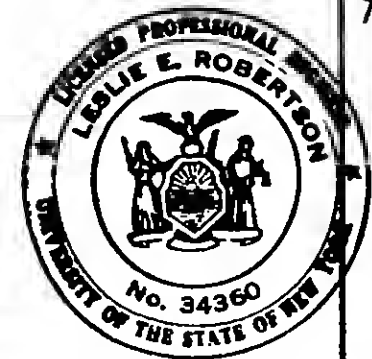
5-9-67

REVISIONS

7-28-67



G-ABI-20



Structural & Civil Engineers

TITLE SCHEDULE FOR DETAIL 213 A

DATE 7-28-67

REVISIONS

213 A

PLATES

P

7" x 1"

Q

34 "

ANGLES

R

$$4 \times 3\frac{1}{2} \times 5\frac{1}{6}$$

DIMENSIONS

A

1' - 3"

BOLTS

K

3 - 3/4" ϕ

7

4 - 3/4" ϕ

M

4 - 1" ϕ

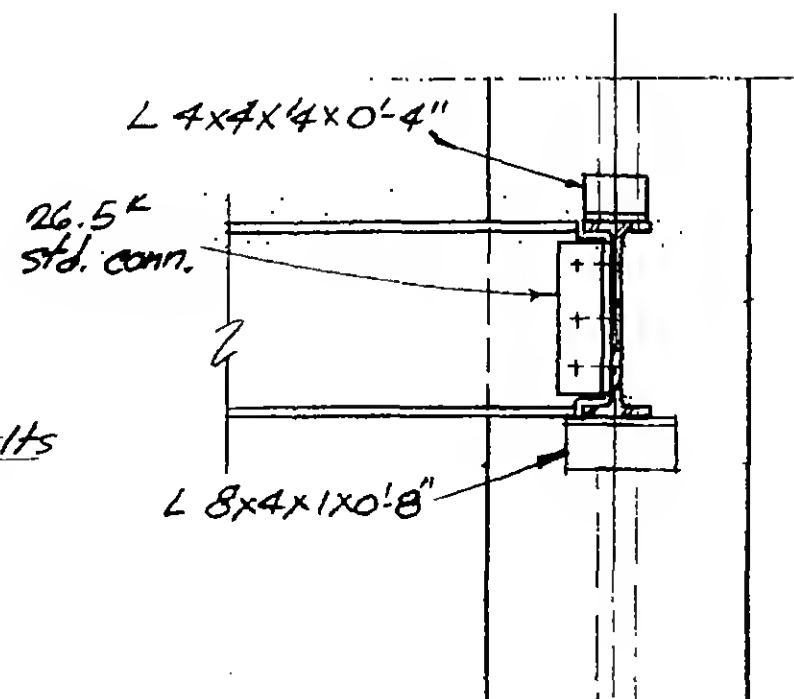
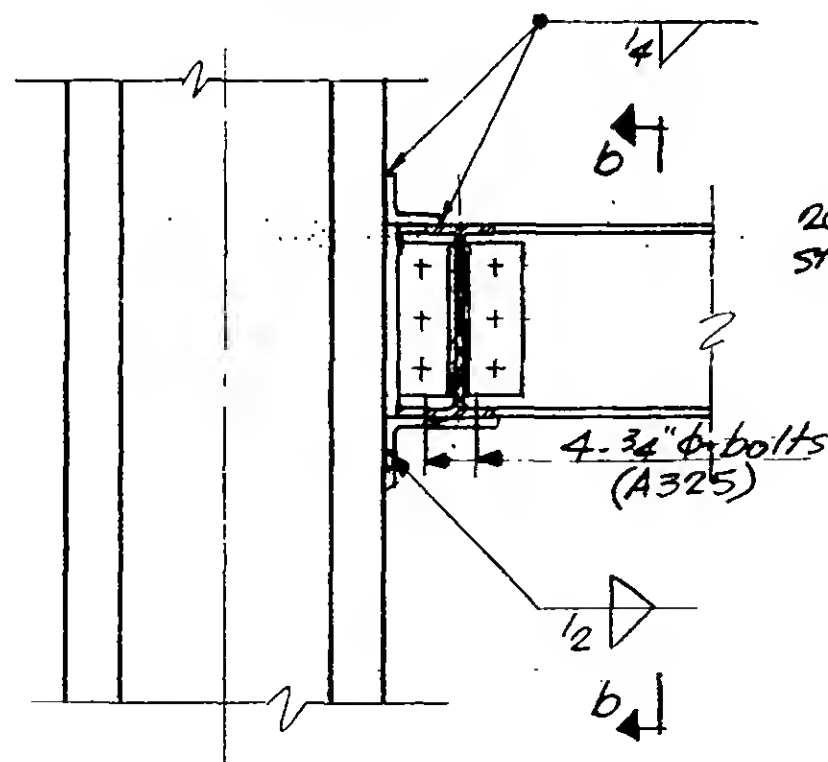
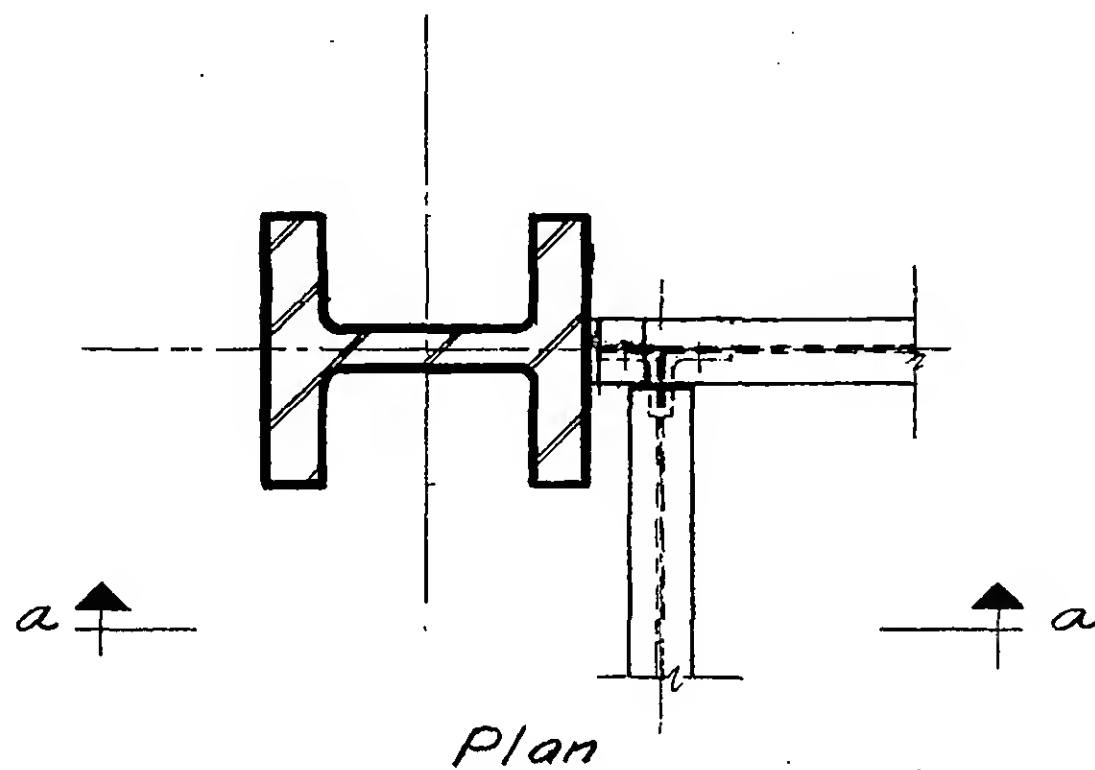
Welds

②

5/6

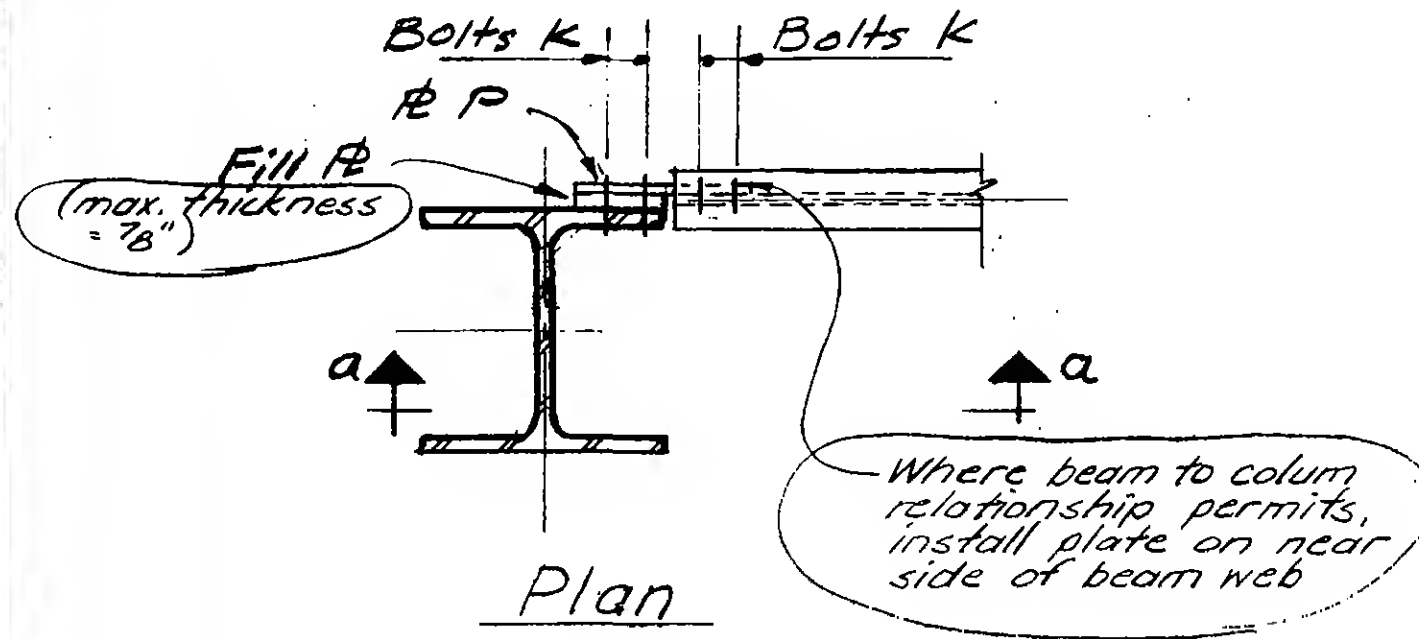
6-ABI-20.1

REVISIONS

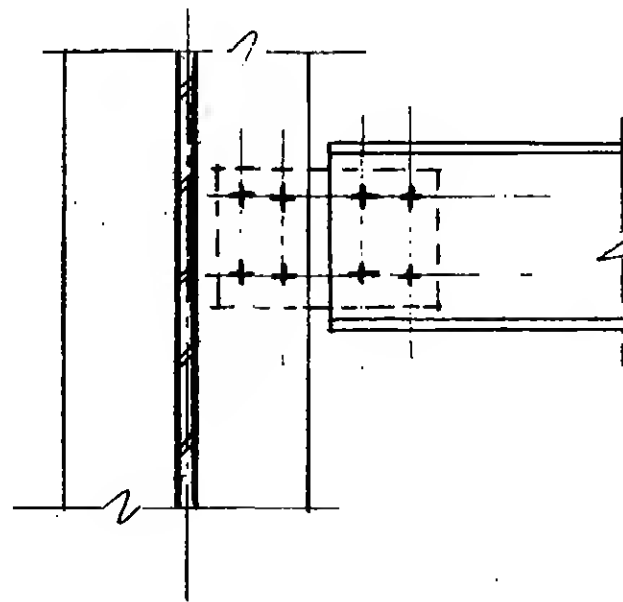


REVISIONS

7-28-67
9-15-67



SCHEDULE		
Detail	Plate P	Bolts K
214 A	1/2"	4-1/8"φ

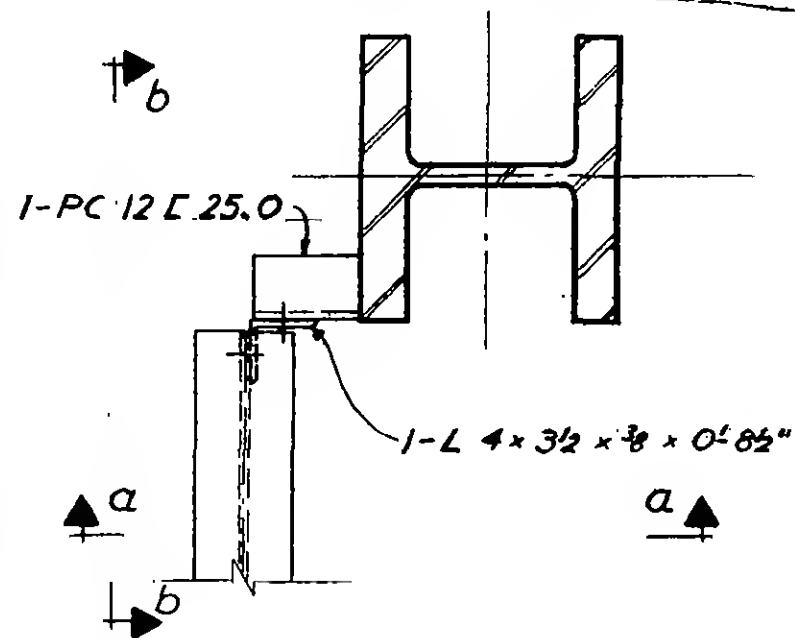
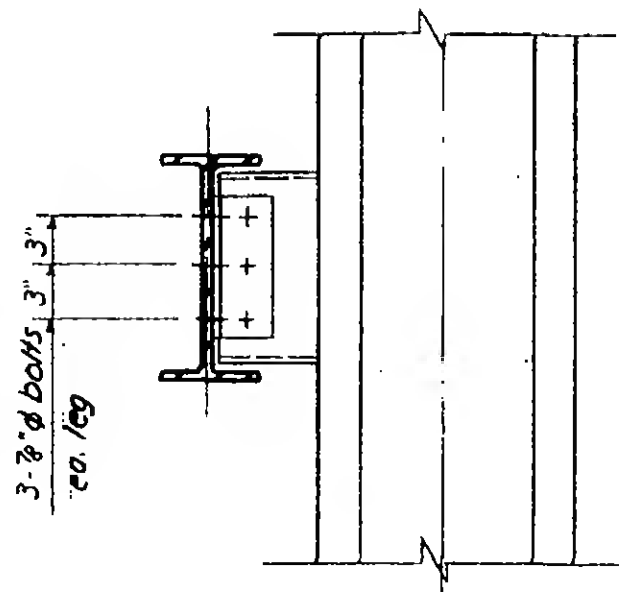
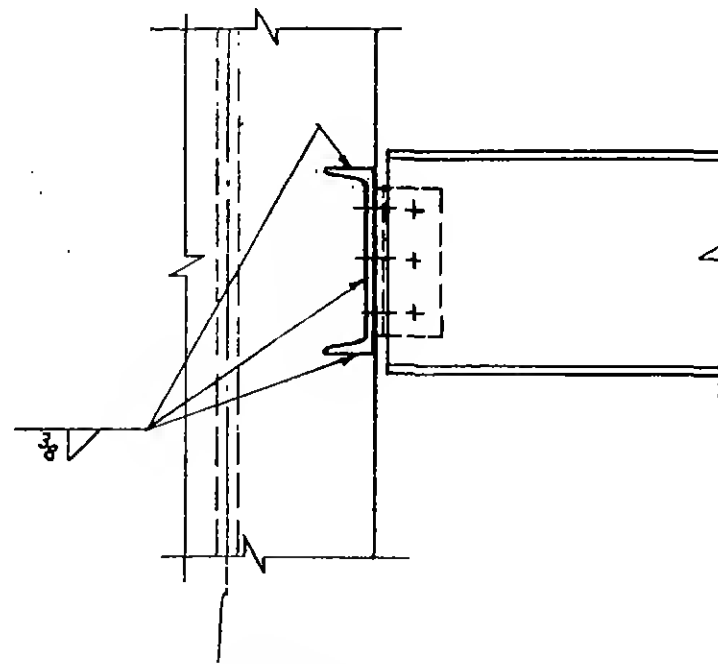
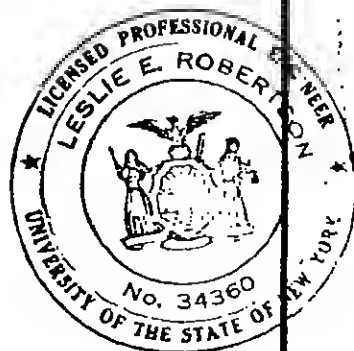


Section a-a



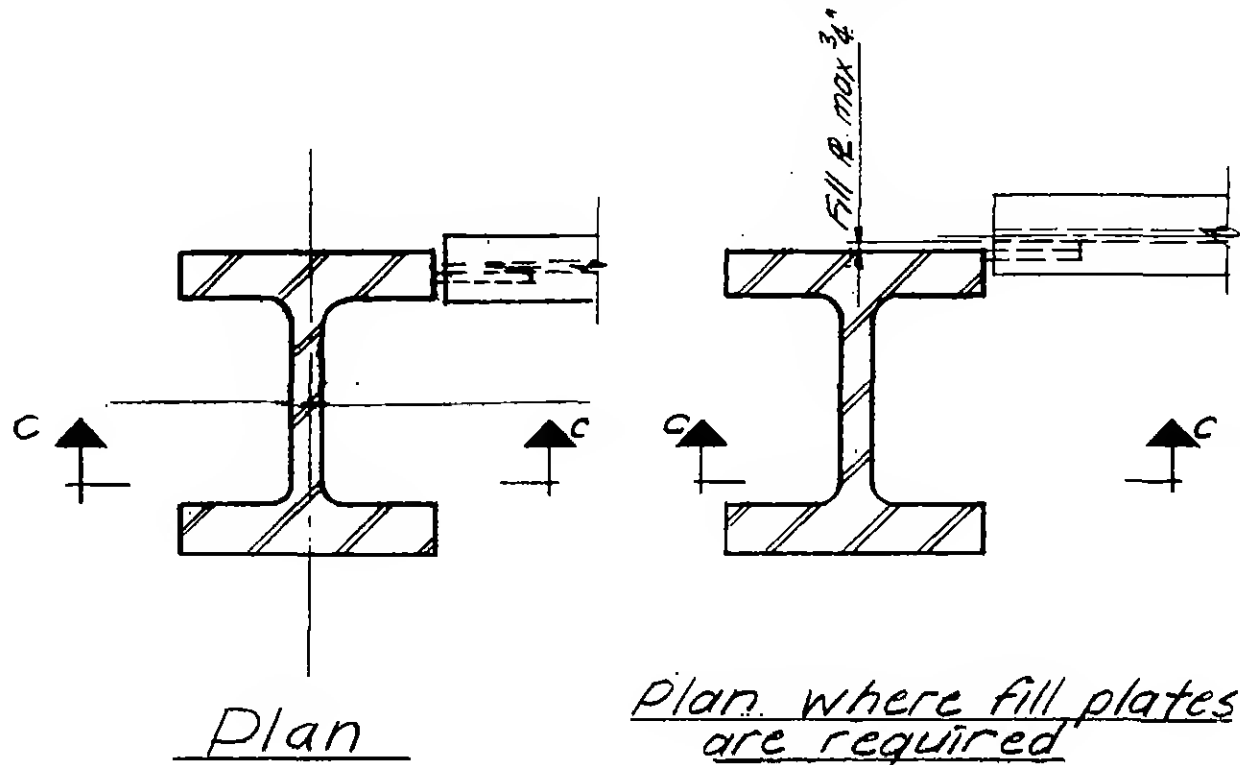
REVISIONS

11-16-67

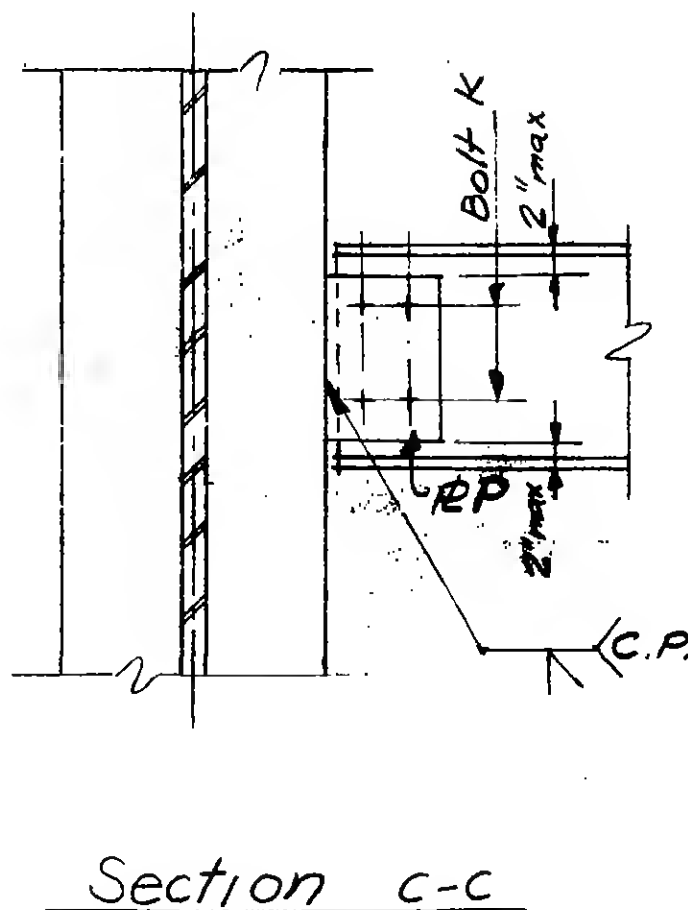
PlanSection a-aSection b-b

REVISIONS

7-28-67
9-15-67
10-5-67



SCHEDULE		
Detail	Plate P	Bolts K
215 A	1"	4 - 1/8" ϕ
215 B	5/8"	6 - 1/8" ϕ
215 C	3/4"	14 - 7/8" ϕ
215 D	5/8"	14 - 3/4" ϕ



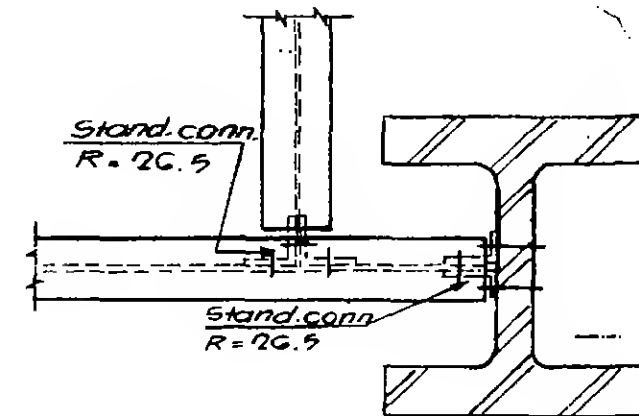
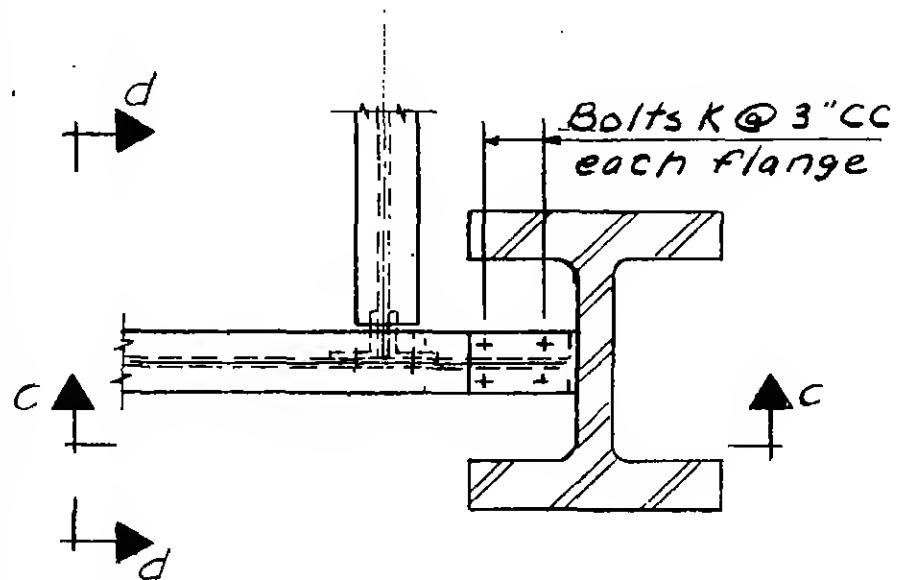
PROJECT THE WORLD TRADE CENTER

TITLE CONNECTION DETAIL 216A, C

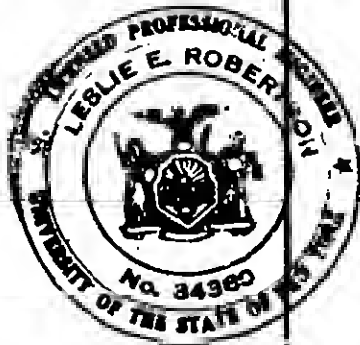
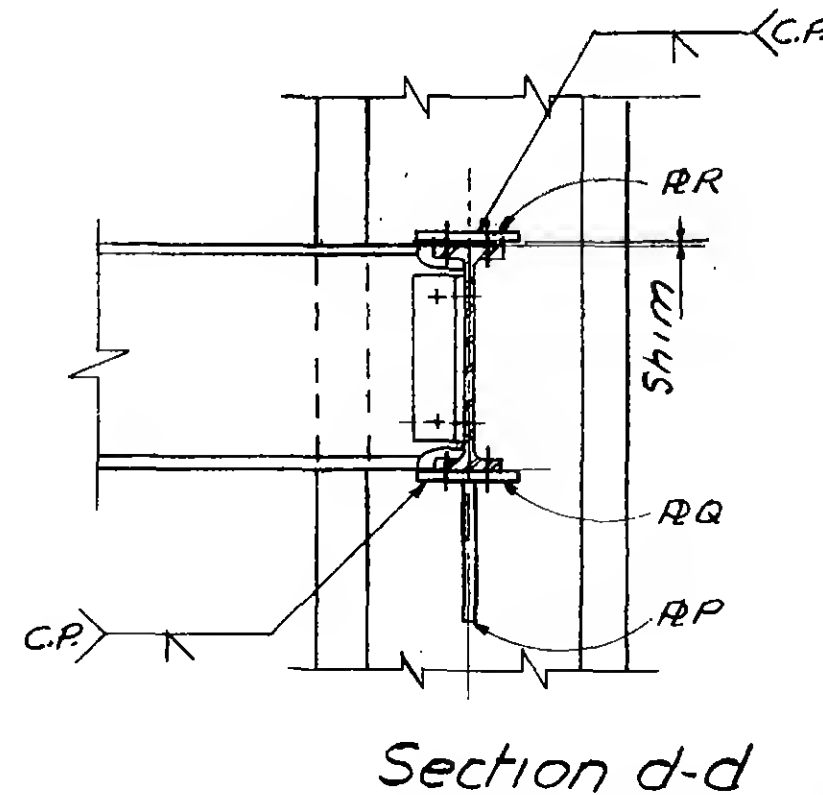
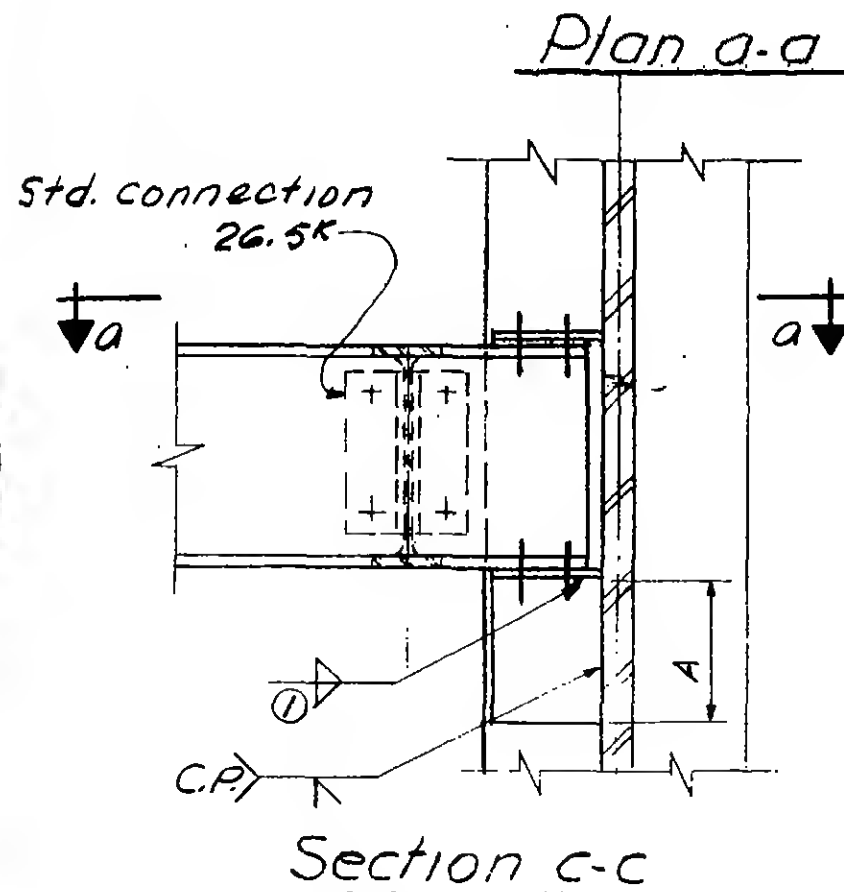
DATE 5-1-67

REVISIONS

7-28-67
10-5-67

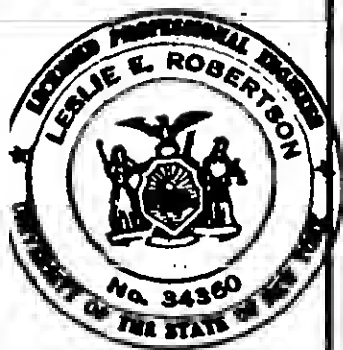
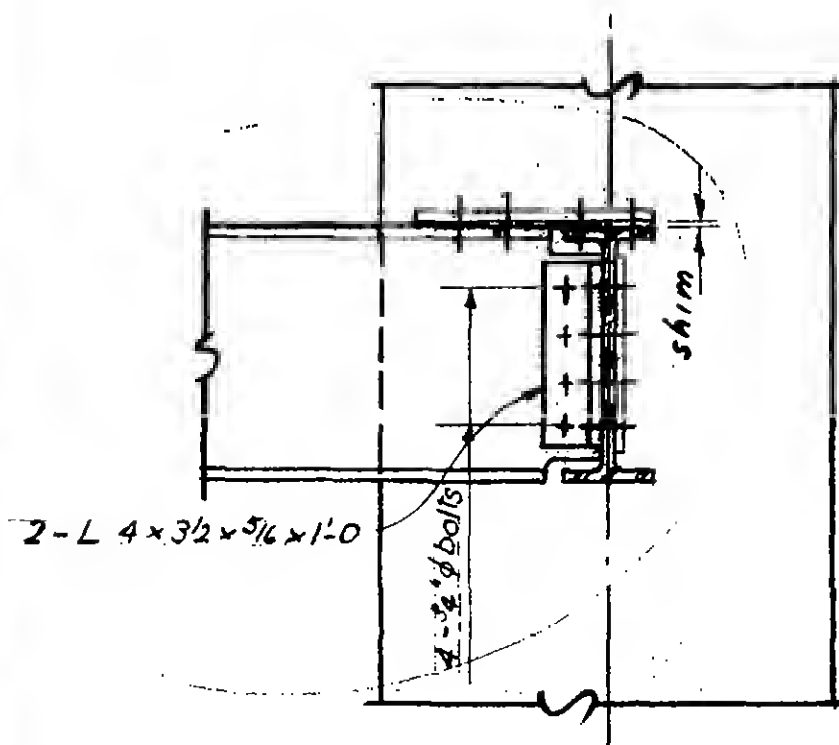
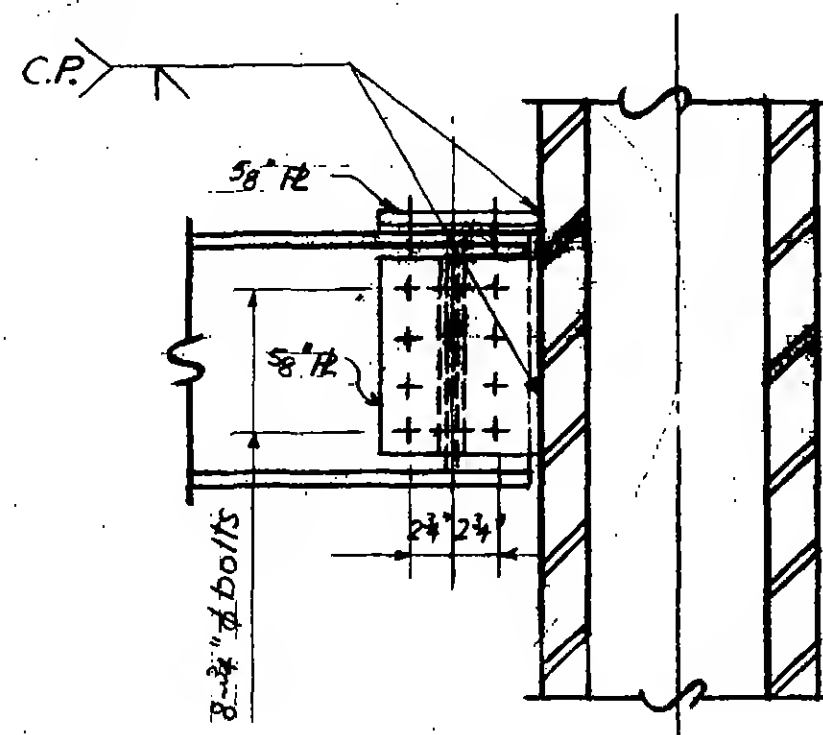
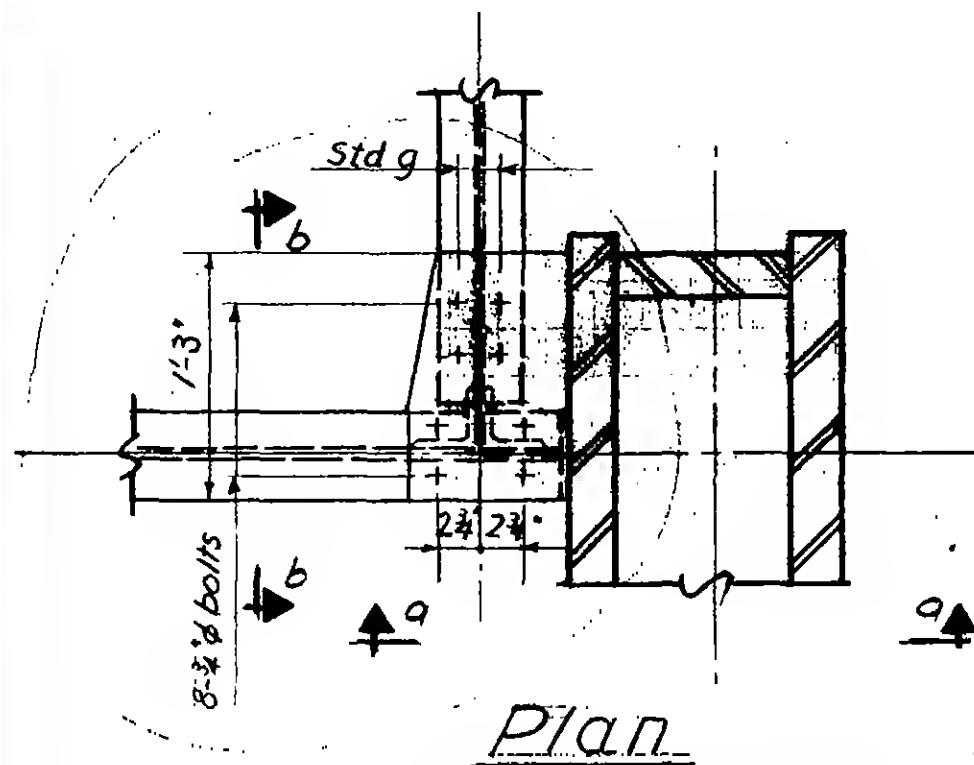


Plan
(For Det. 216C only.)



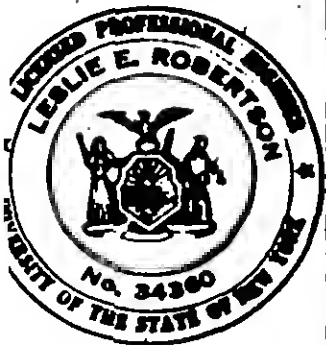
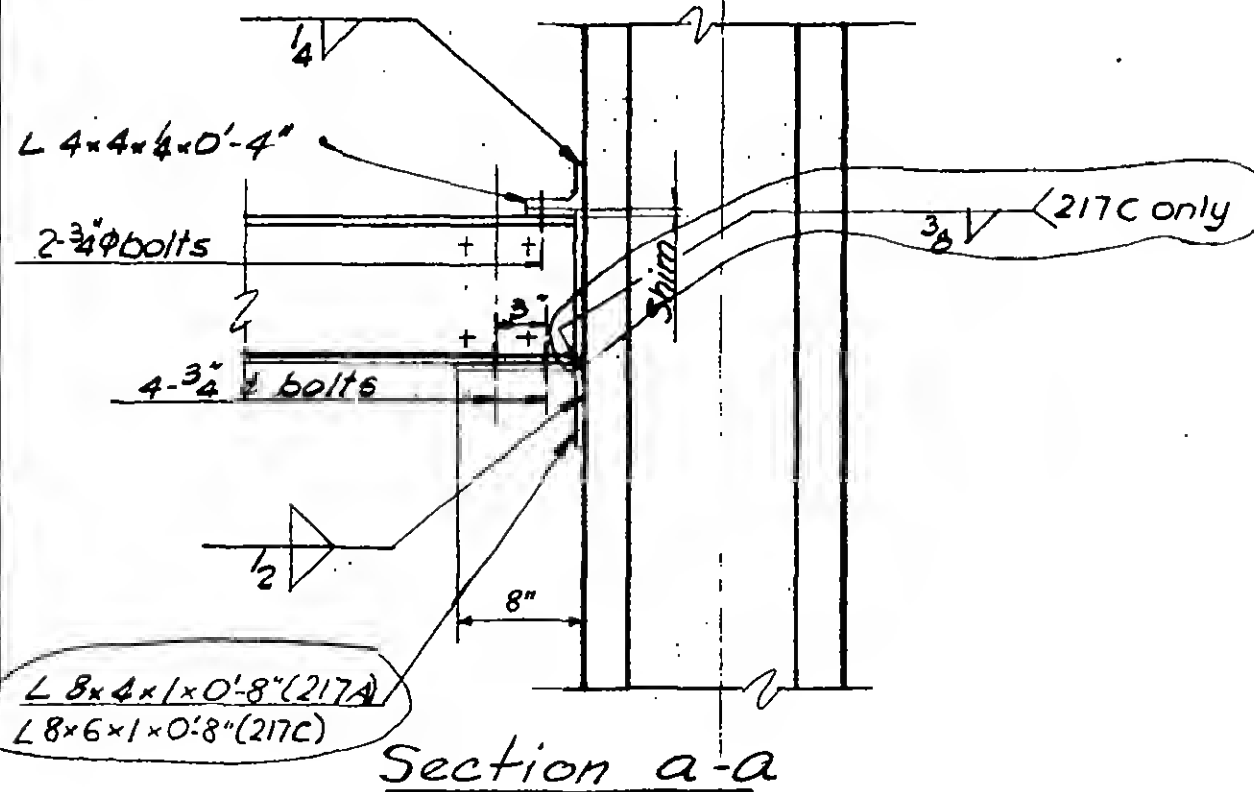
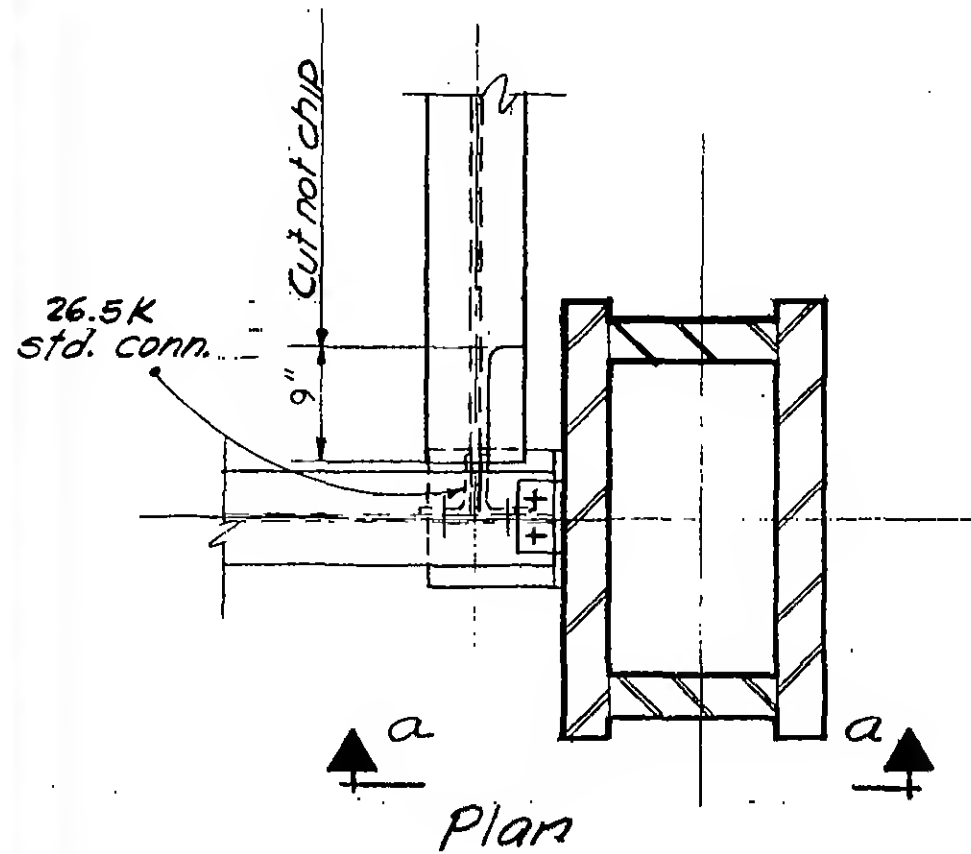
REVISIONS

8-5-67



REVISIONS

7-28-67
10-2-67



WORTHINGTON, SKILLING, HELLE & JACKSON

Civil & Structural Engineers

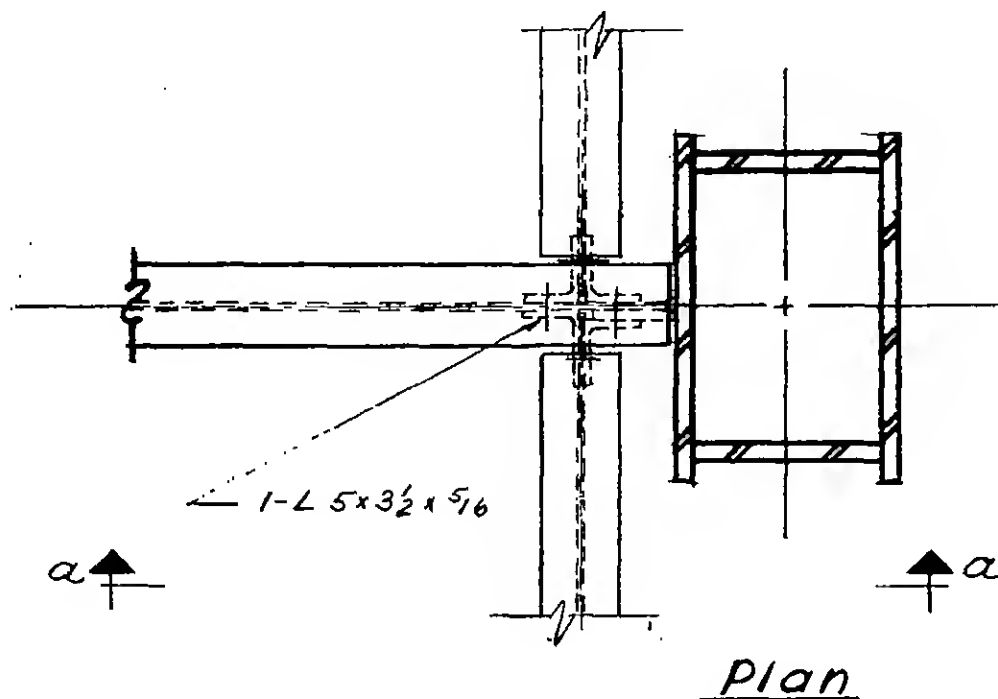
PROJECT *THE WORLD TRADE CENTER*

TITLE *CONNECTION DETAIL 218A*

DATE *6-5-67*

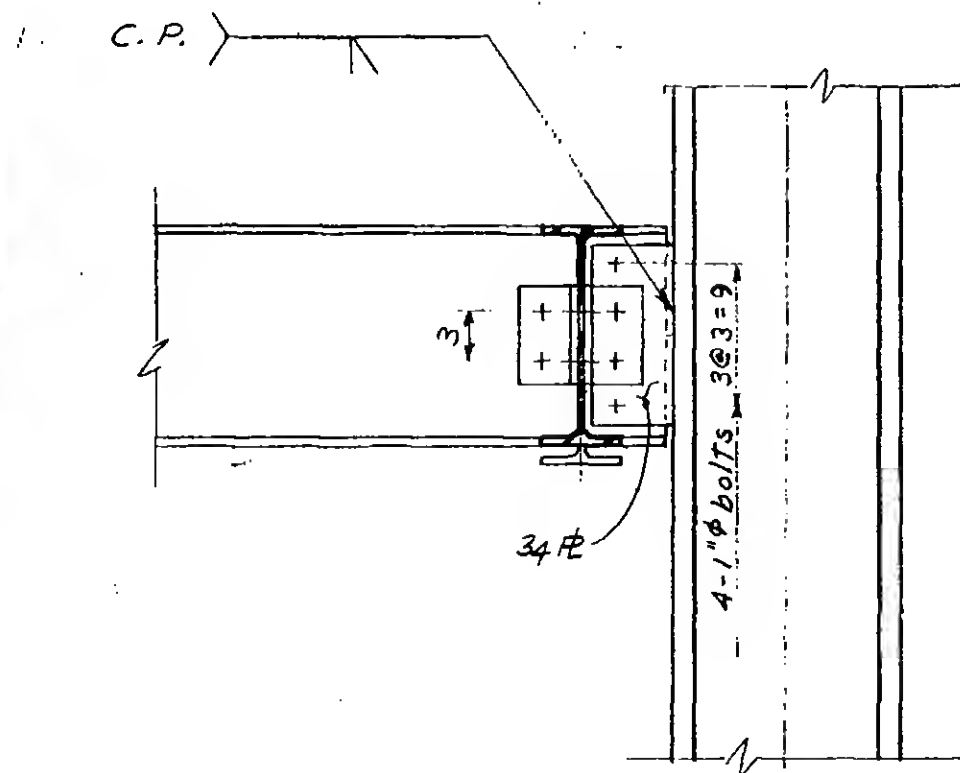
REVISIONS

8-14-67



All L's 4x3 1/2 x 5/16 x 0-5 1/2 except as noted.

All bolts 3/4" ϕ except as noted.

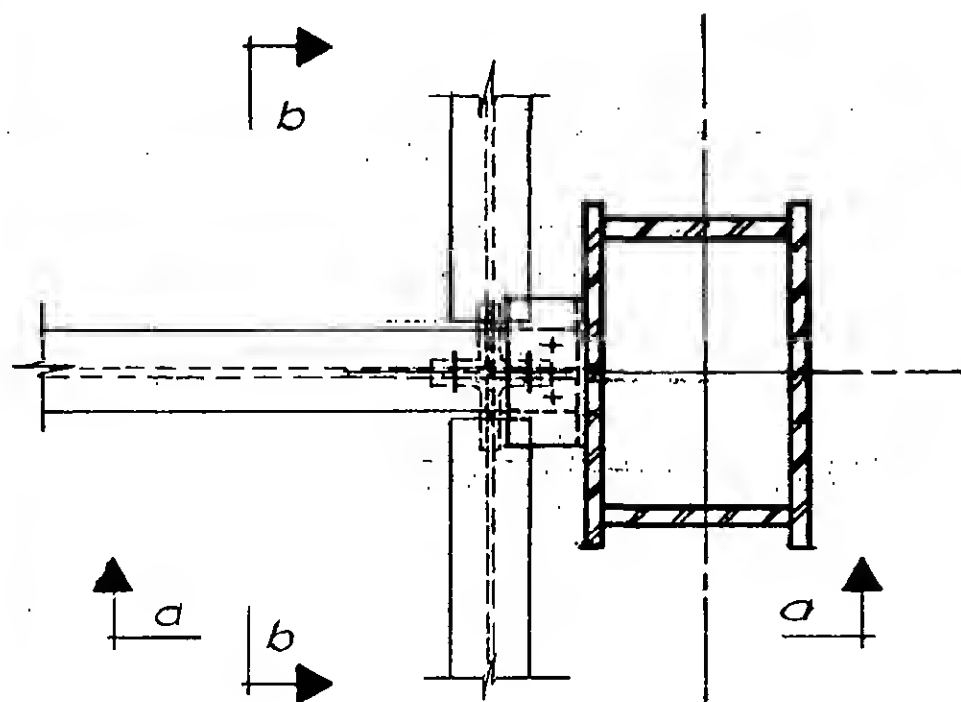


Section a-a

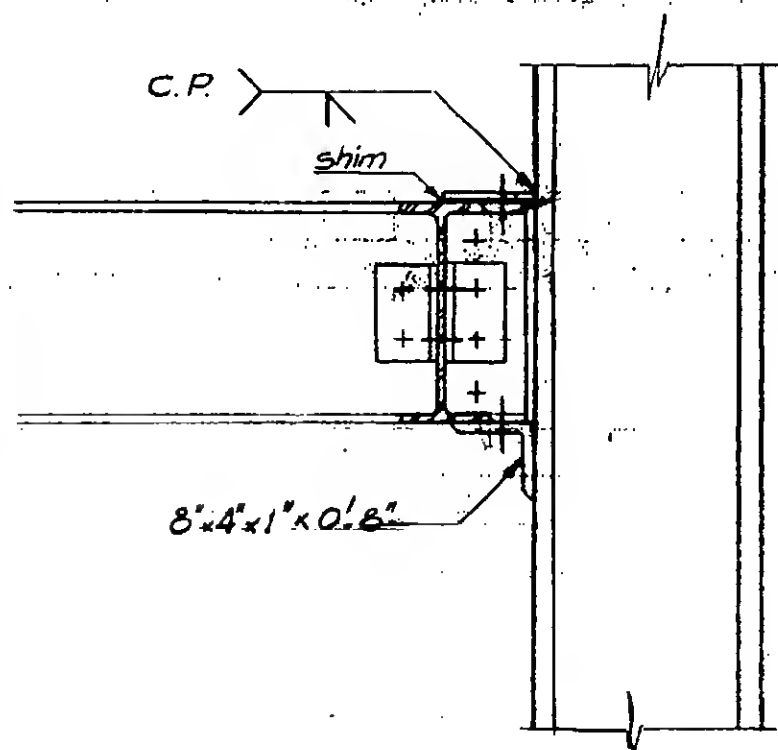


6-ABI-25

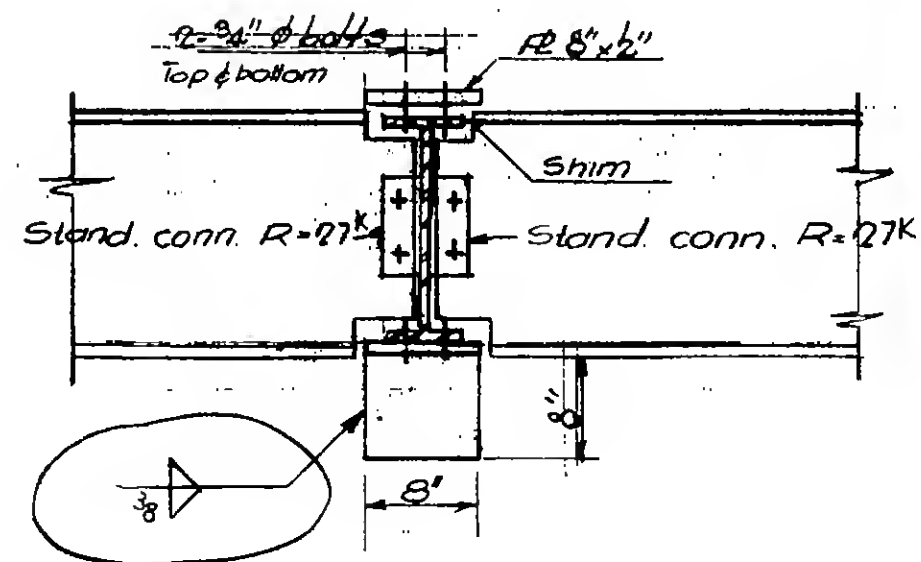
REVISIONS



Plan



Section a-a



Section b-b



PROJECT

THE WORLD TRADE CENTER

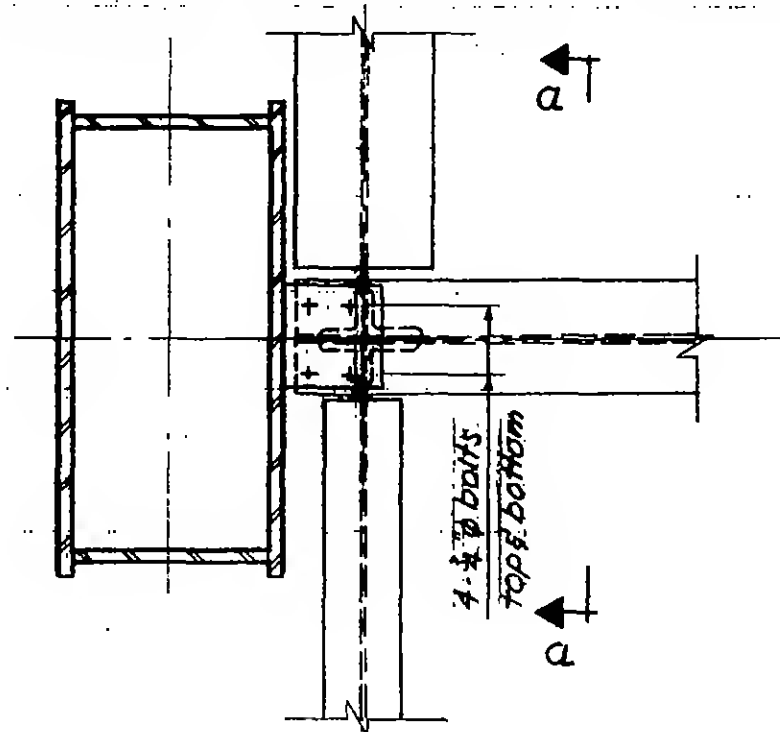
TITLE

CONNECTION DETAIL 218C

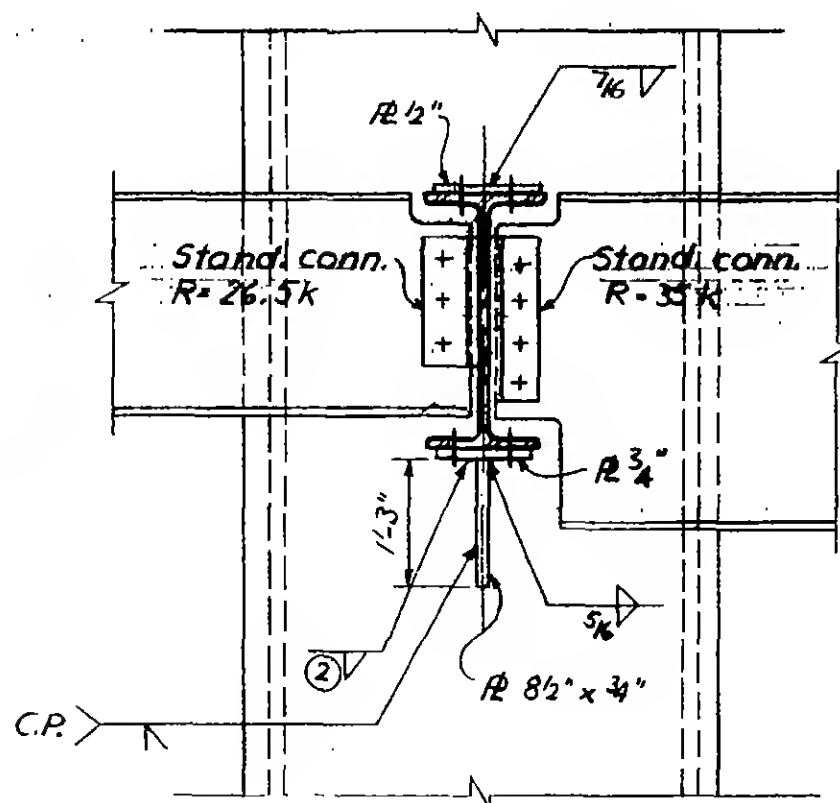
DATE

10-2-67

REVISIONS



Plan

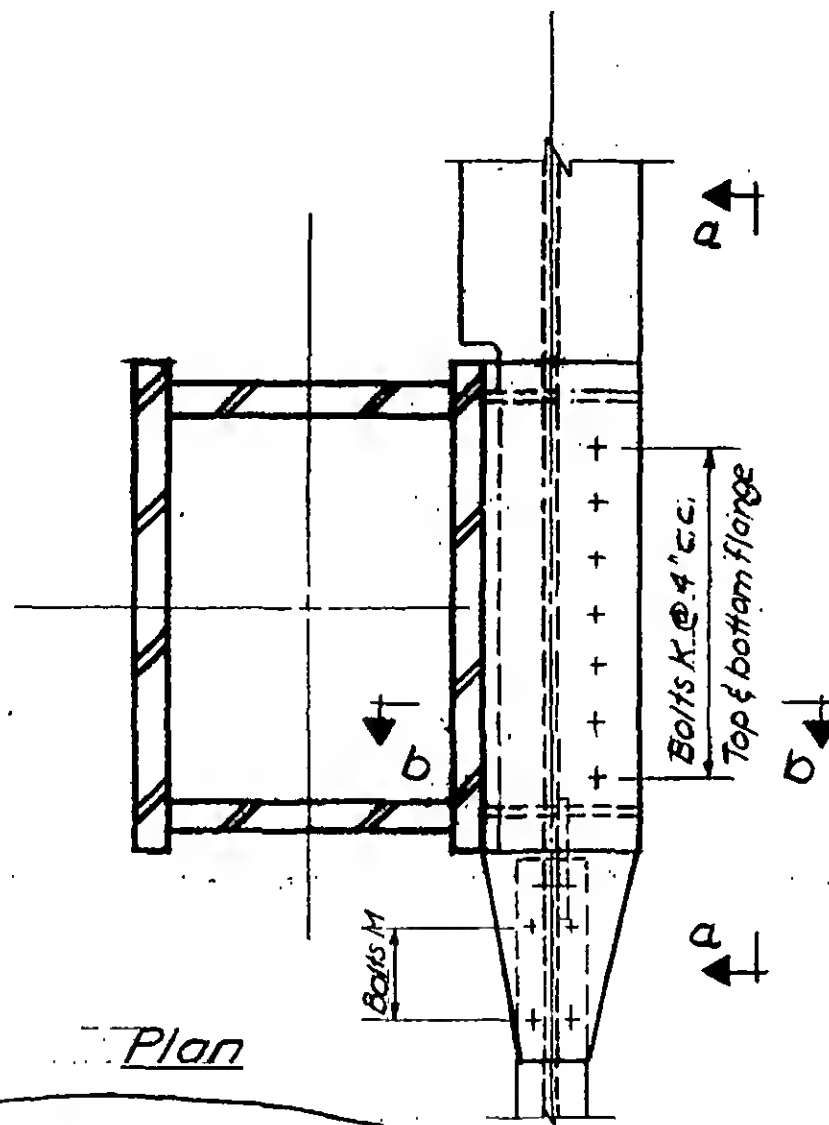


Section a-a

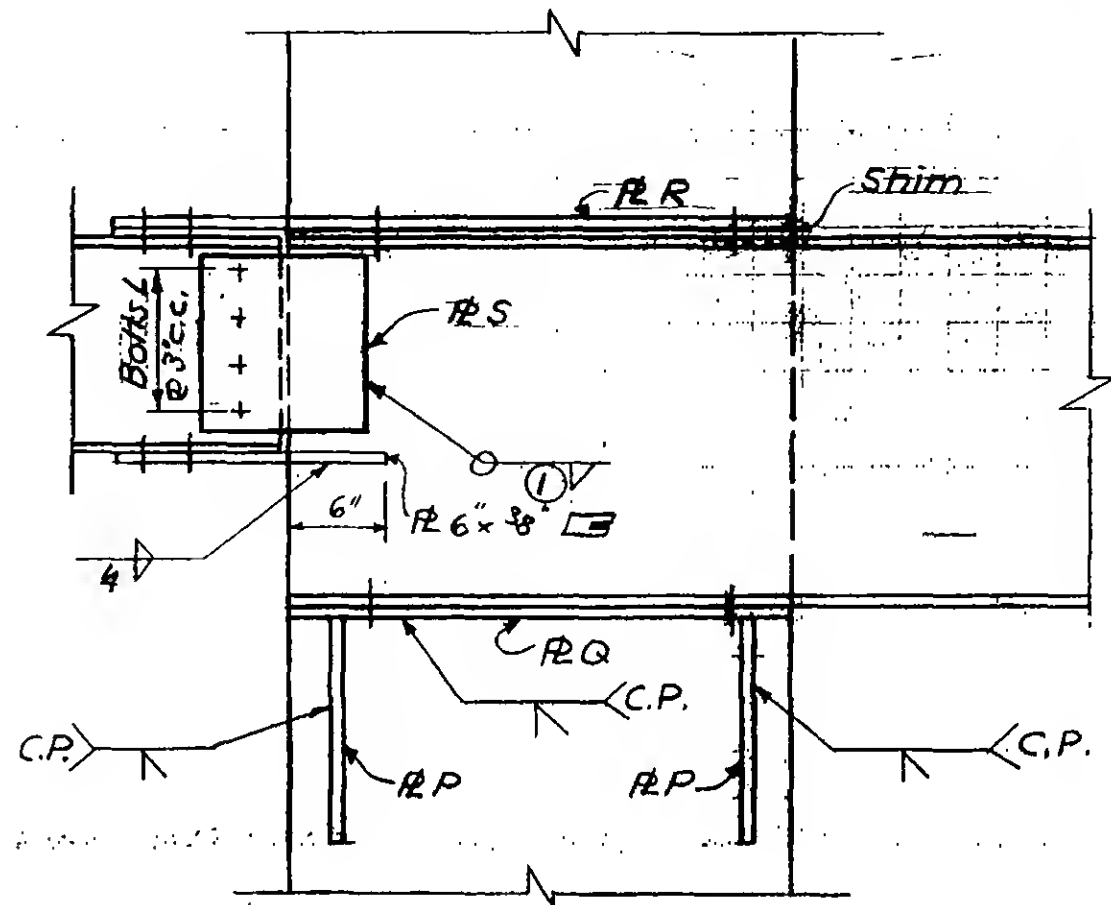


REVISIONS

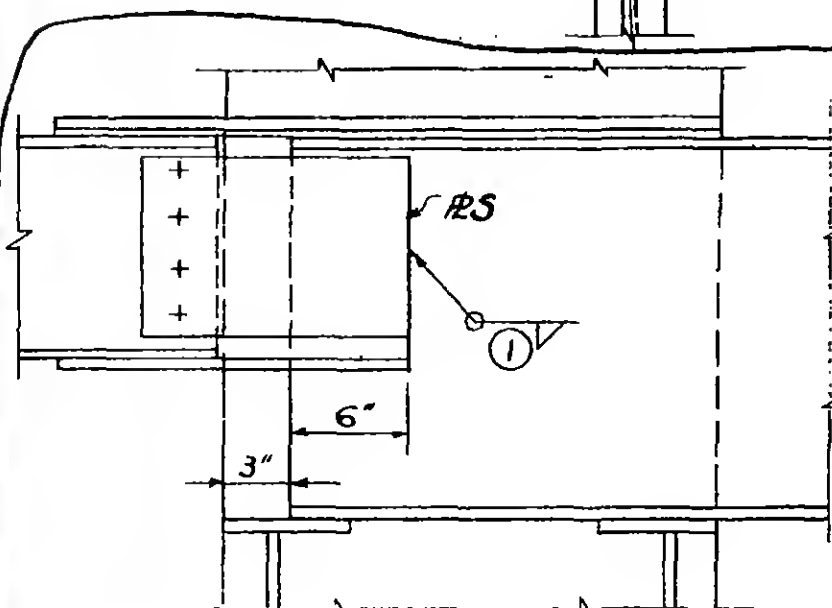
10-2-67
11-20-68



Plan



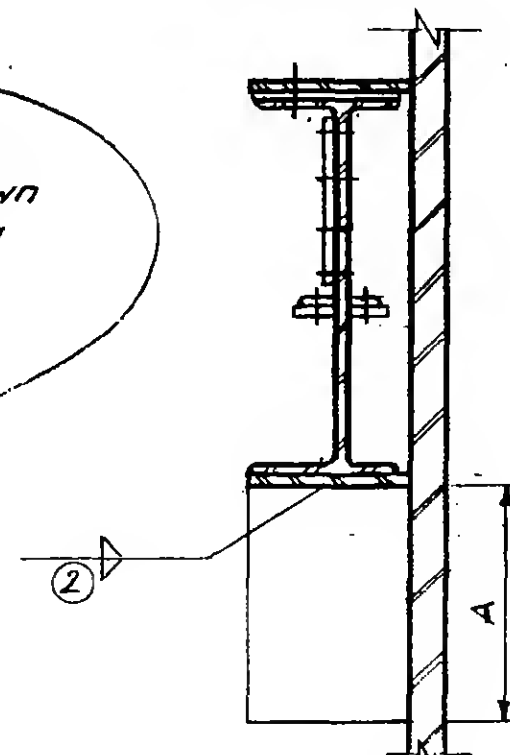
Section a-a



Section a-a

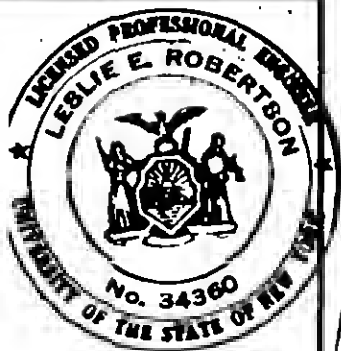
At Floor 75, Tower A, BM 5551 only

Details not shown
are the same as shown
in main Section a-a
which is applicable
to other floors.



Section b-b

6-AB1-26



Structural & Civil Engineers

TITLE SCHEDULE FOR DETAIL 219 A & B

DATE 10-2-67

	219 A	219 B				
PLATES						
P	3/4"	7/8"				
Q	5/8"	5/8"				
R	1/2"	5/8"				
S	1/2"	1/2"				
DIMENSIONS						
A	1'-3"	1'-3"				
BOLTS						
K	7- 7/8" ϕ	7- 7/8" ϕ				
L	4- 7/8" ϕ	4- 7/8" ϕ				
M	4- 7/8" ϕ	4- 7/8" ϕ				
WELDS						
①	5/16	5/16				
②	3/8	3/8				

6-ABI-26.1

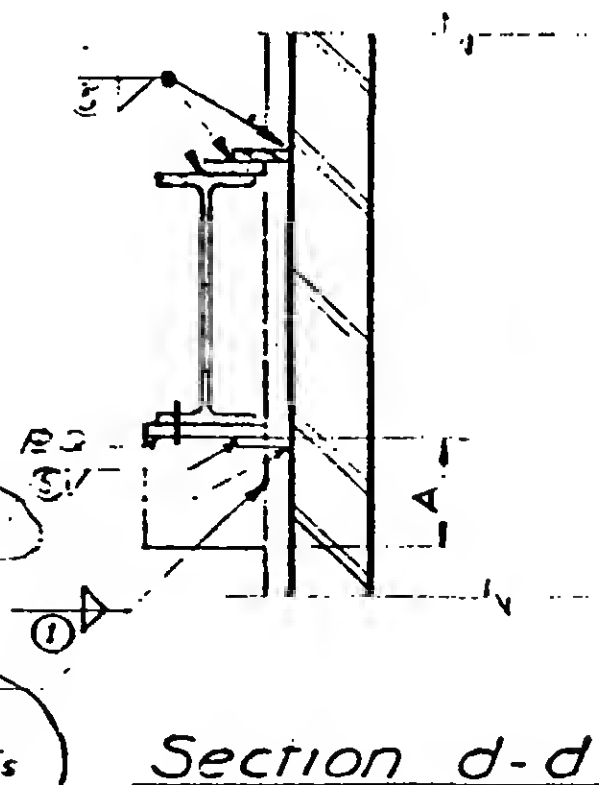
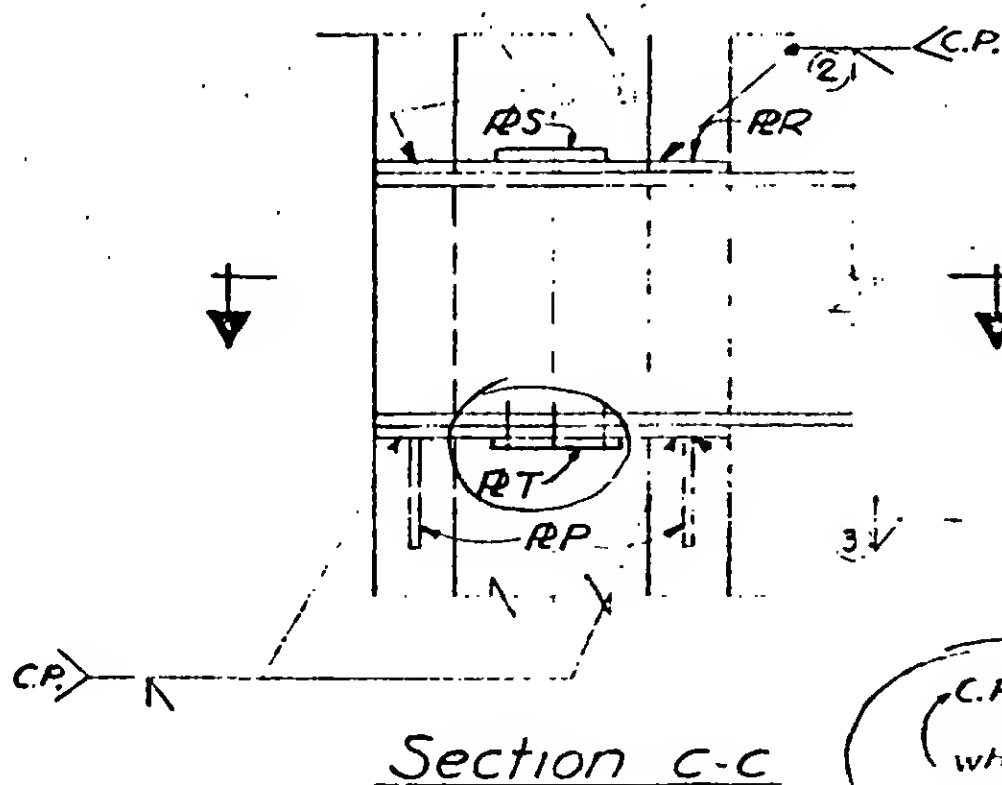
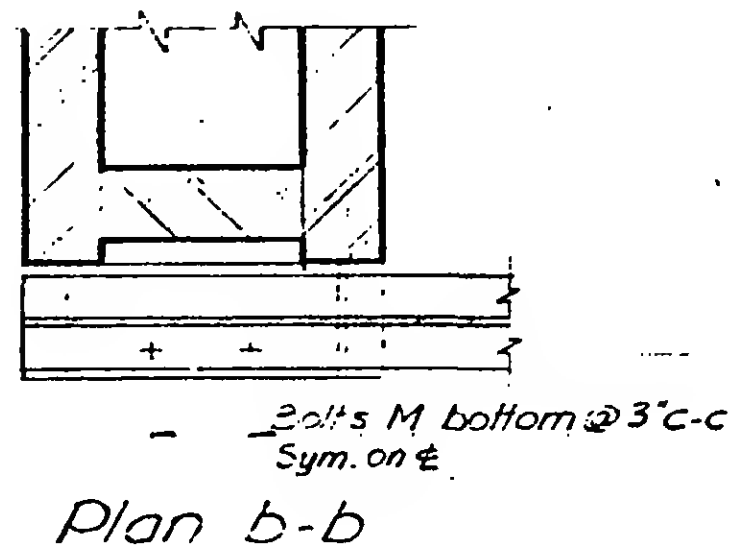
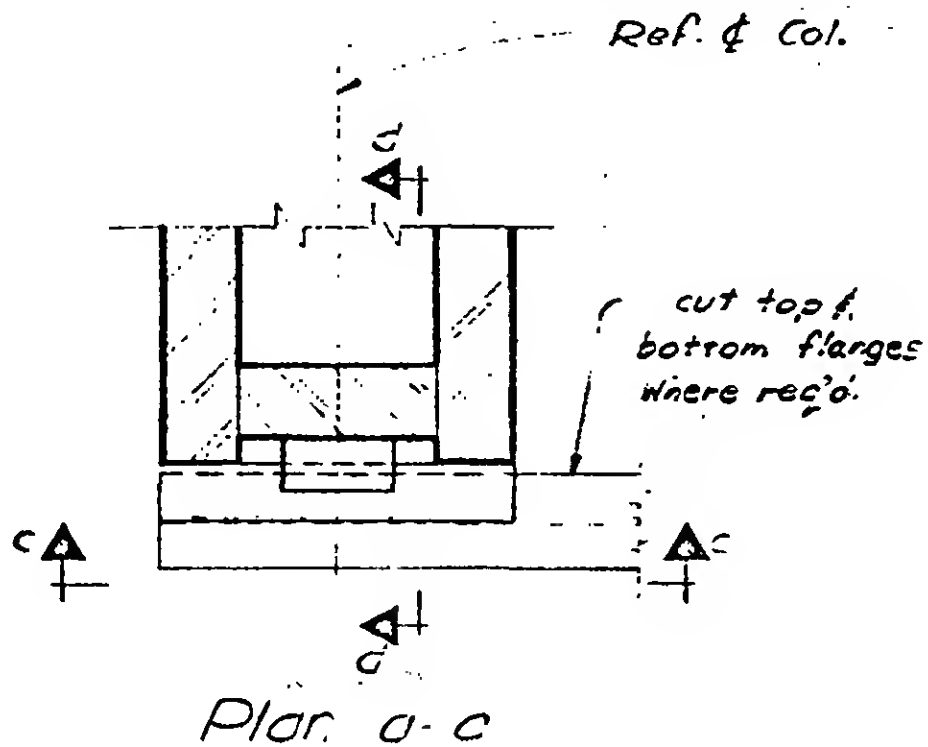


REVISIONS

6-30-67

7-28-67

9-15-67



Structural & Civil Engineers

DATE 6-30-67

9-15-67

[illegible]

PROJECT

THE WORLD TRADE CENTER

TITLE

220 D, E, F, K, L, X, Y

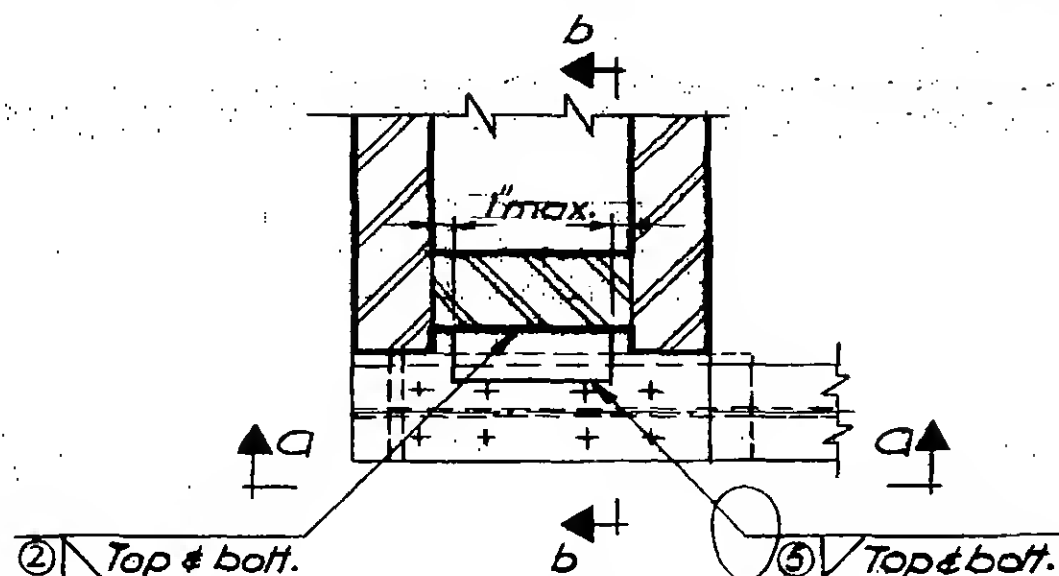
DATE

7-28-67

REVISIONS

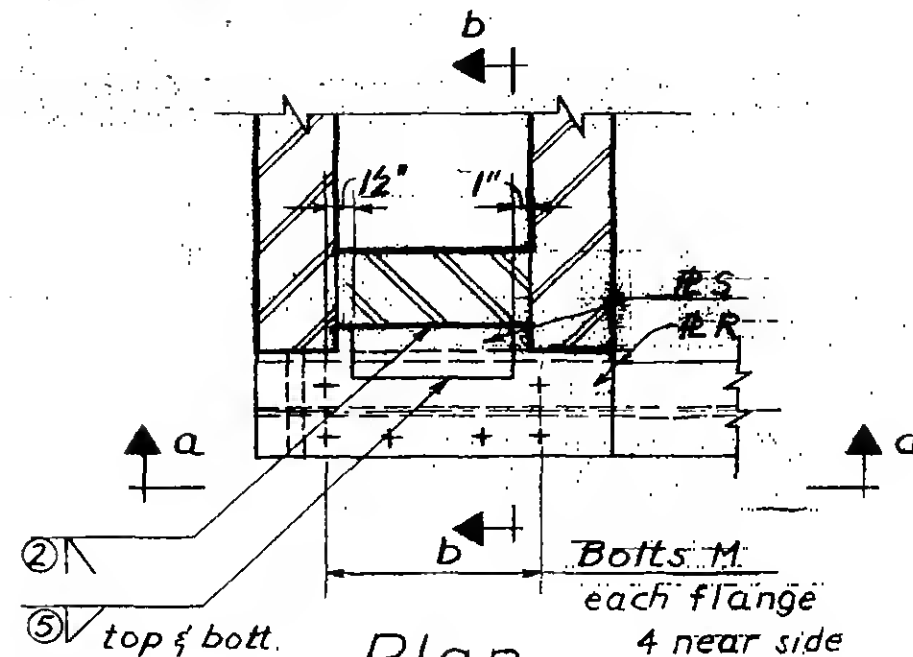
9-15-67

2-9-68



Plan

220 D, E, F, L, X, Y



Plan

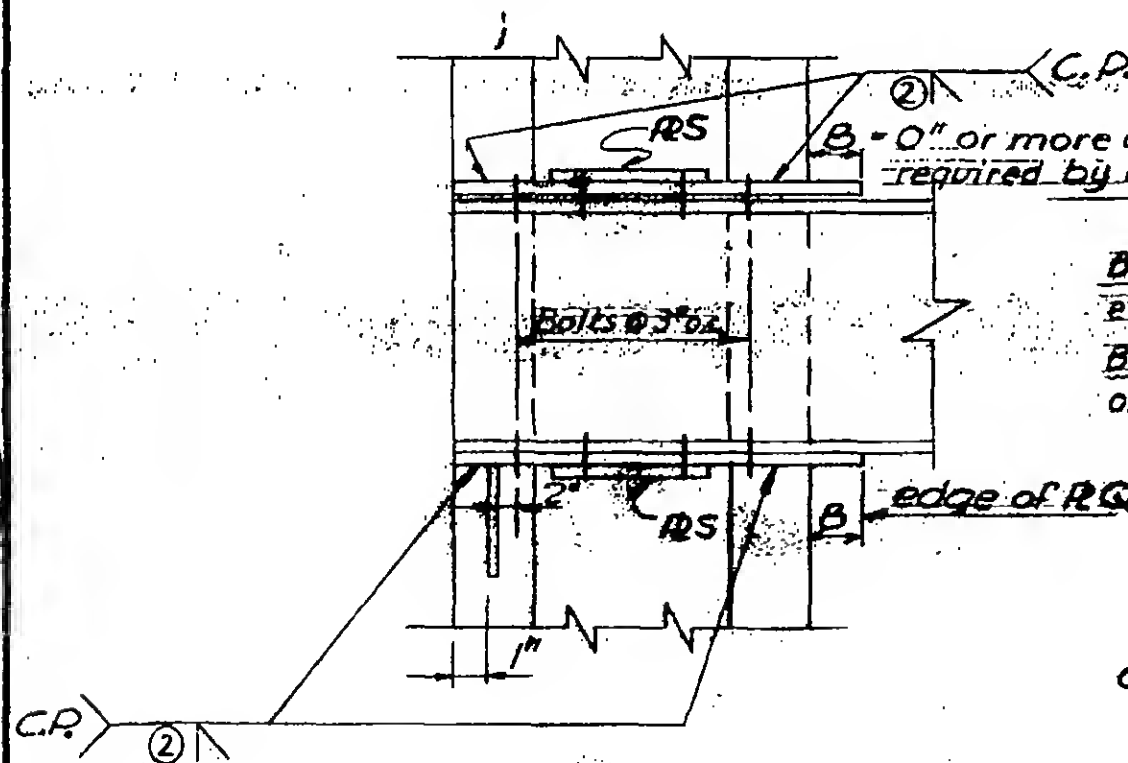
220 K

Bolts M.

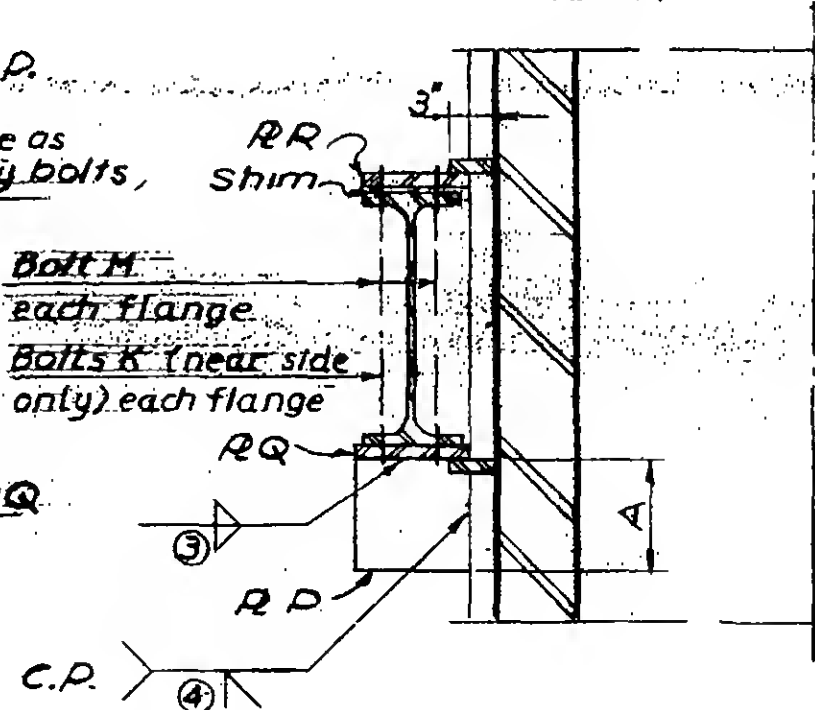
each flange

4 near side

2 far side



Section a-a



Section b-b



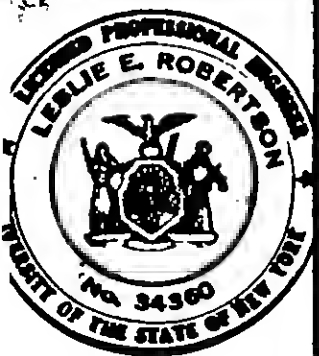
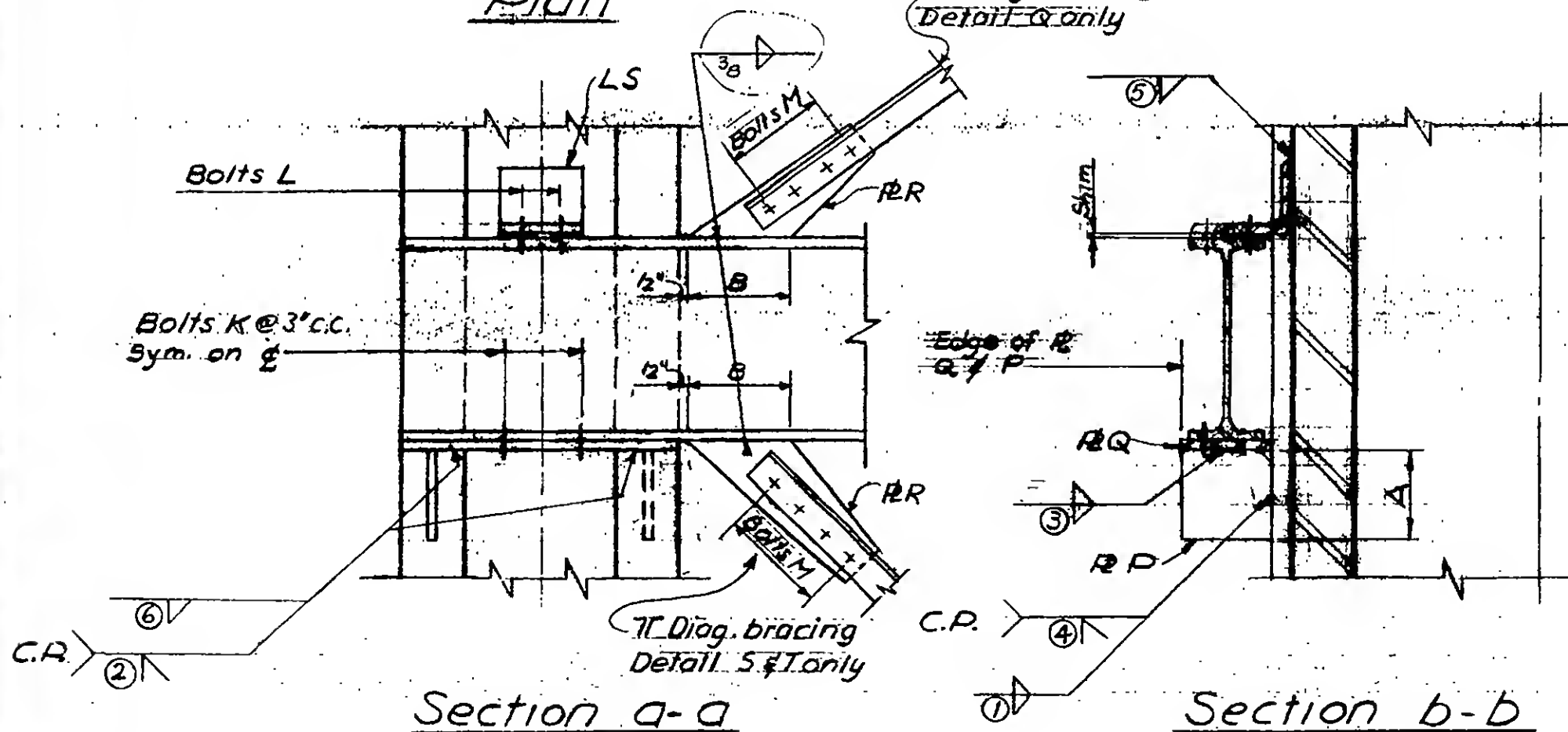
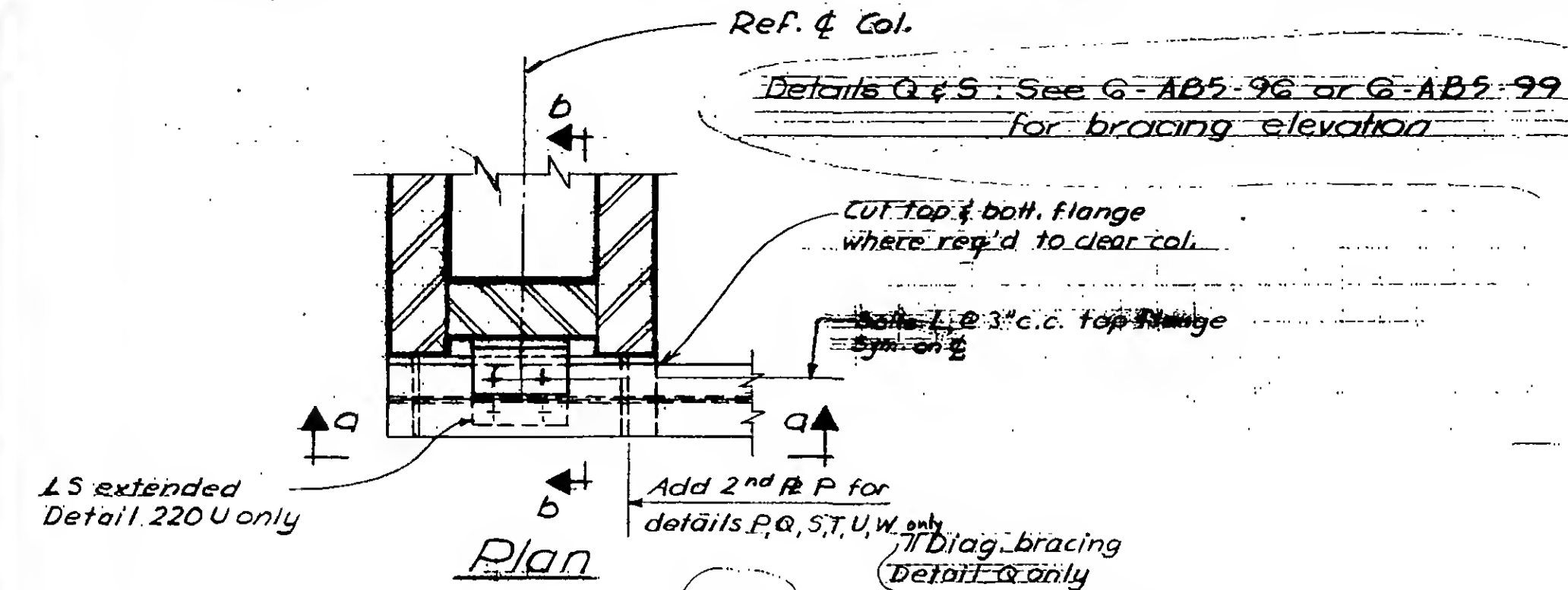
PROJECT THE WORLD TRADE CENTER

TITLE CONNECTION DETAIL 220 G, H, I, P, Q, S, T, U, W

DATE 7-28-67

REVISIONS

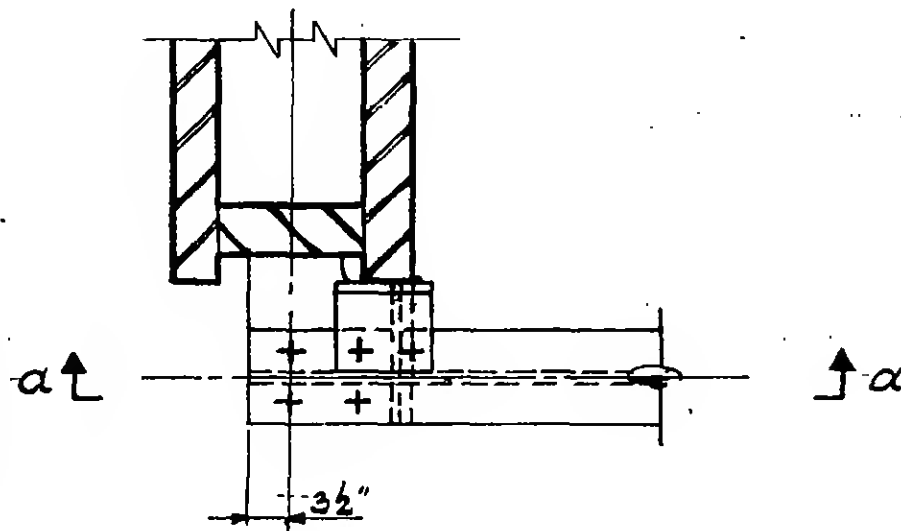
9-15-67
10-2-67
10-31-67



REVISIONS

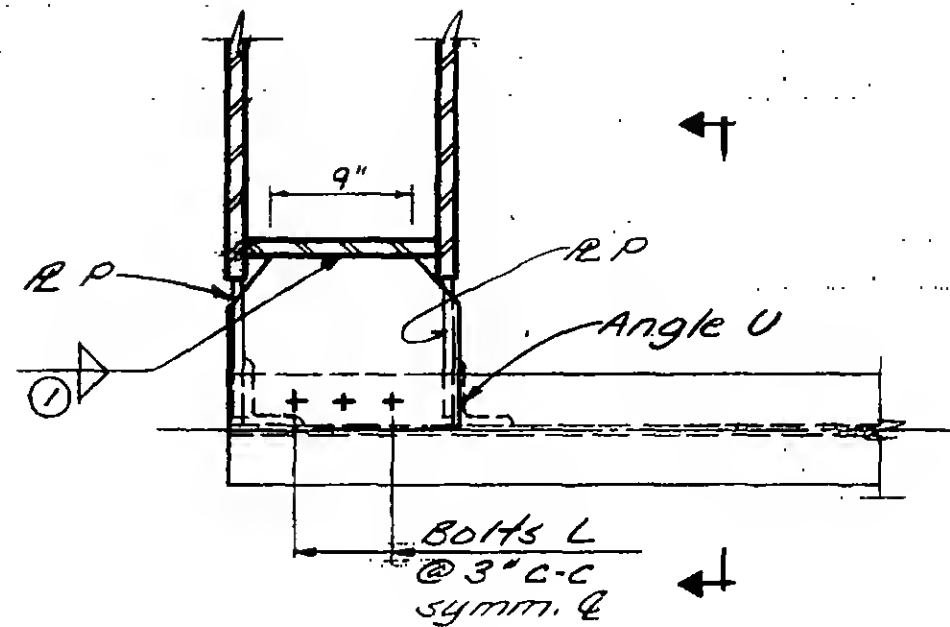
9-15-67

11-10-67



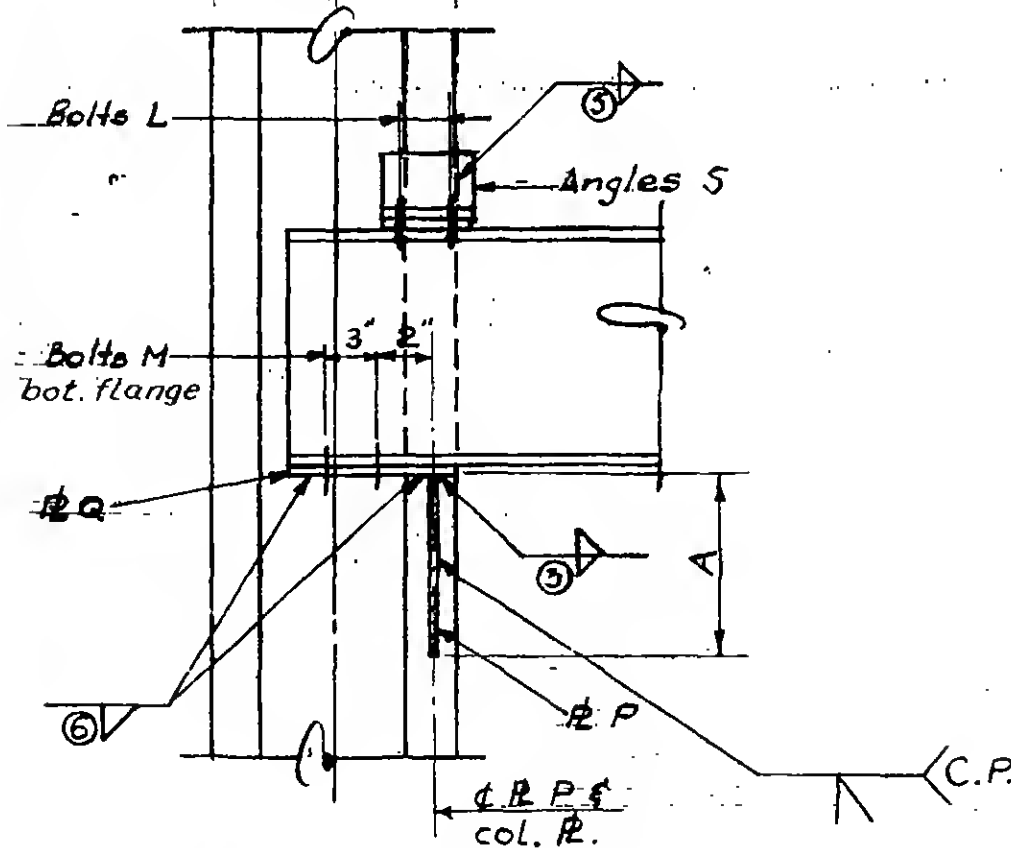
PLAN

Details 220 J & N

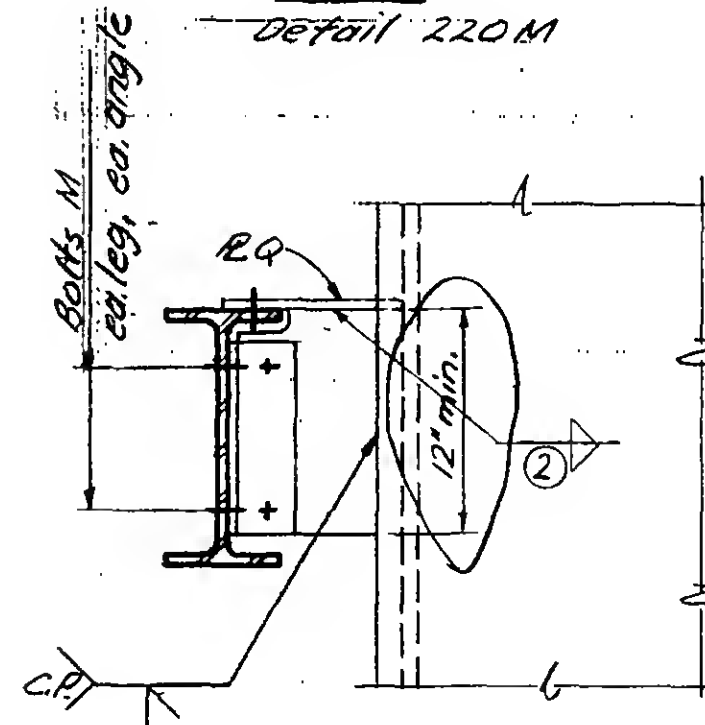


Plan

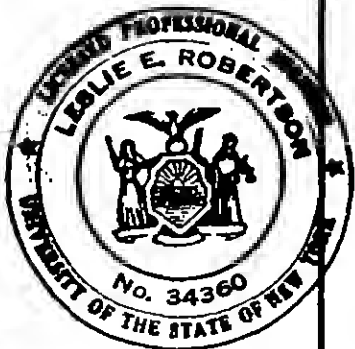
Detail 220 M



Section a-a



Section a-a



PROJECT

THE WORLD TRADE CENTER

TITLE

SCHEDULE FOR DETAIL 220 M, N, P, Q, R, S

DATE

9-15-67

REVISIONS

10-2-67

10-21-67

11-10-67

REF. DWGS.	G-ABI-27.4	G-ABI-27.4	G-ABI-27.3	G-ABI-27-3	G-ABI-27.7	G-ABI-27.3
	220M	220N	220P	220Q	220R	220S
PLATES						
P	1/2"	3/4"	5/8"	3/4"	5/8"	1/2"
Q	3/8"	3/4"	5/8"	3/4"	3/4"	1/2"
R	—	—	—	5/8"	3/4"	5/8"
S	—	—	—	—	5/8"	—
T	—	—	—	—	4" x 3/4"	—
DIMENSIONS						
A	—	1'-2"	1'-2"	1'-4"	1'-2"	1'-1"
B	—	—	—	0'-9" min.	0'-9" min.	0'-9" min.
ANGLES						
S	—	4 x 4 x 3/8	6 x 4 x 7/16	8 x 4 x 7/16 x 0'-6"	—	6 x 4 x 3/8 x 0'-6"
U	4 x 3 1/2 x 5/16	—	—	—	—	—
BOLTS						
K	—	—	4-3/4" φ	4-3/4" φ	6-1/8" φ (A490)	4-3/4" φ
L	3-3/4" φ	2-3/4" φ	2-3/4" φ	2-3/4" φ	4-7/8" φ	2-3/4" φ
M	4-3/4" φ	3-7/8" φ	—	4-7/8" φ	—	4-7/8" φ
WELDS						
①	5/16	—	—	—	5/16	—
②	5/16	—	C.P.	C.P.	5/8	C.P.
③	—	5/16	5/16	5/16	3/8	5/16
④	—	—	C.P.	C.P.	—	C.P.
⑤	—	5/16	5/16	5/16	—	5/16
⑥	—	5/16	—	—	—	—

G-ABI-27.6

PROJECT

THE WORLD TRADE CENTER

TITLE

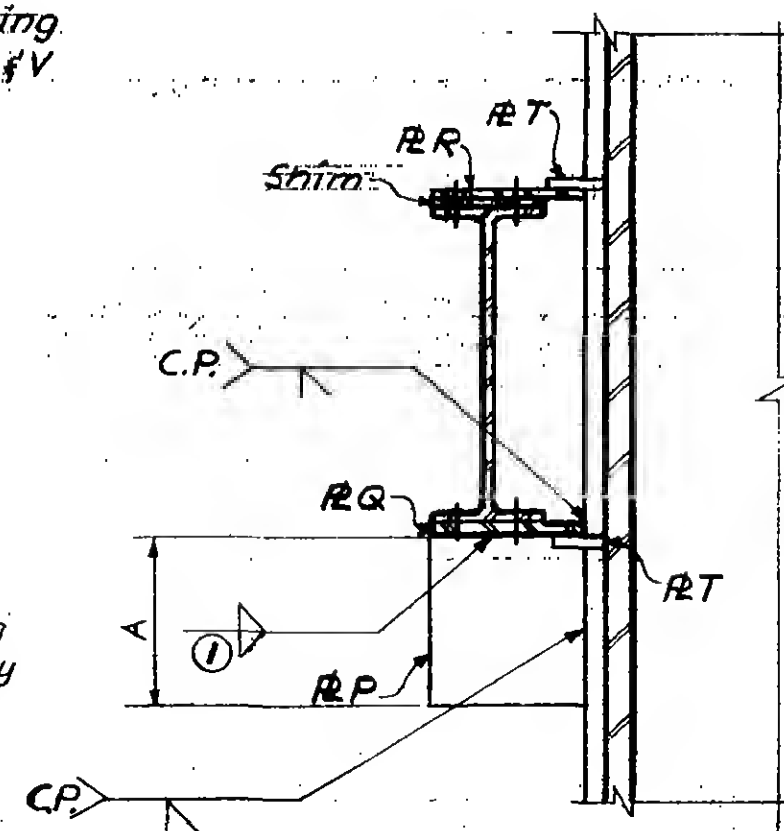
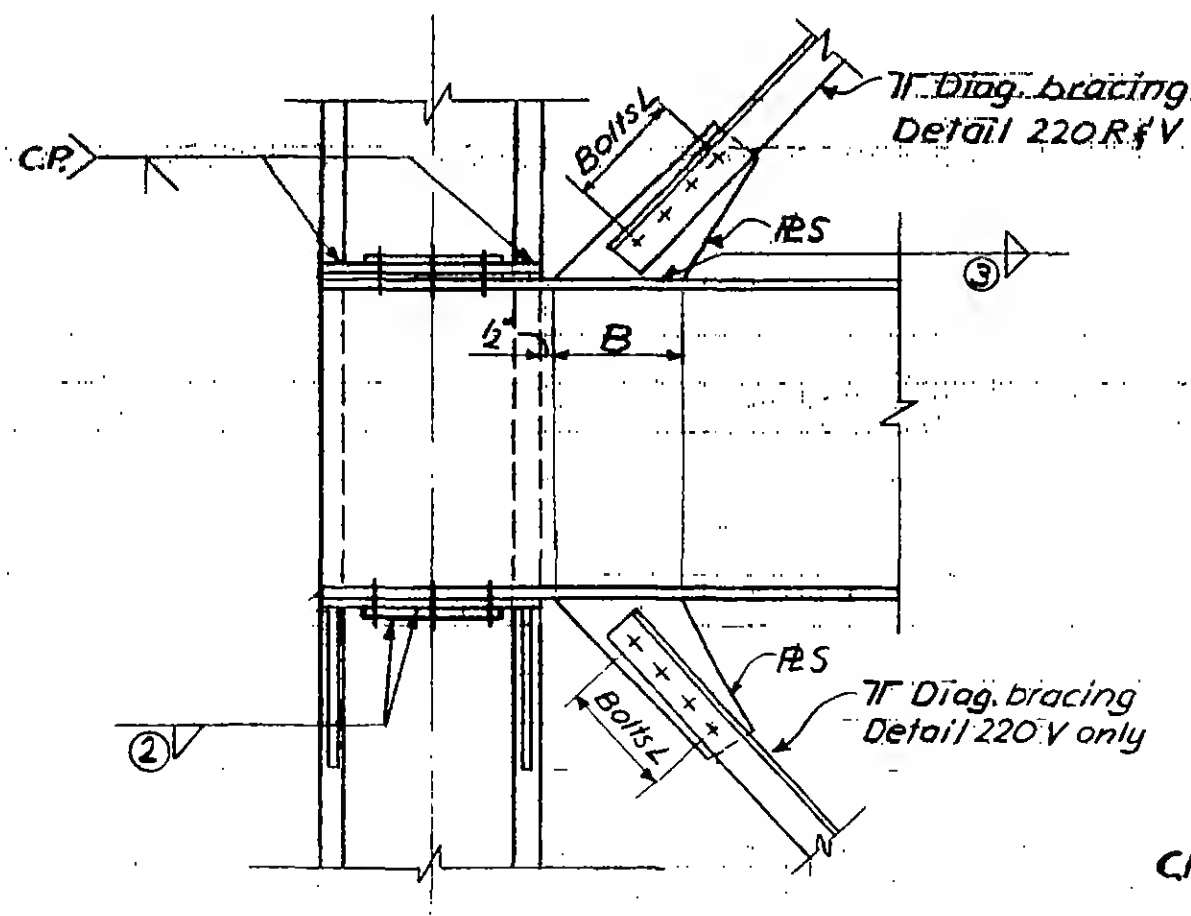
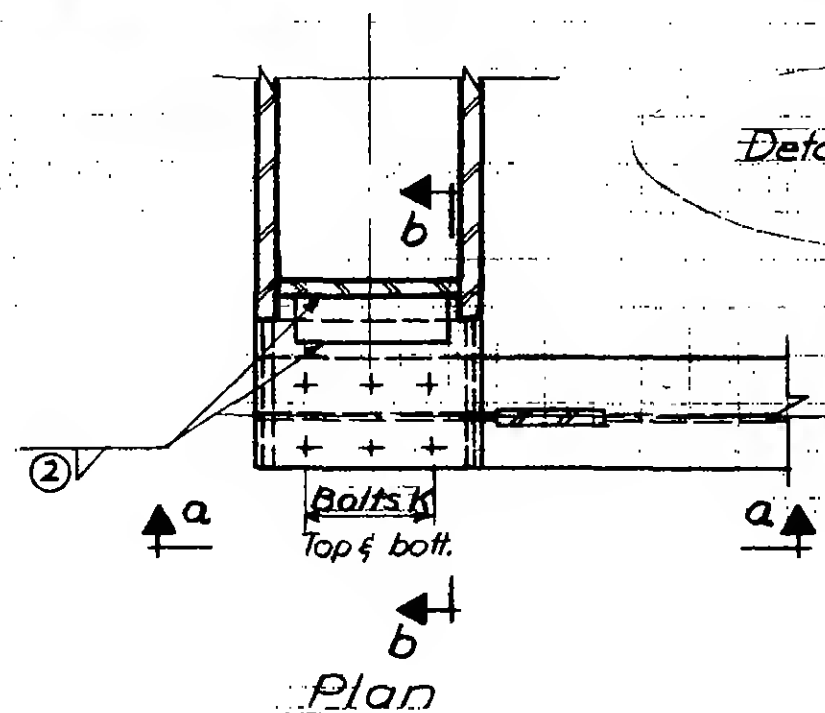
CONNECTION DETAIL 220R, V

DATE

10-2-67

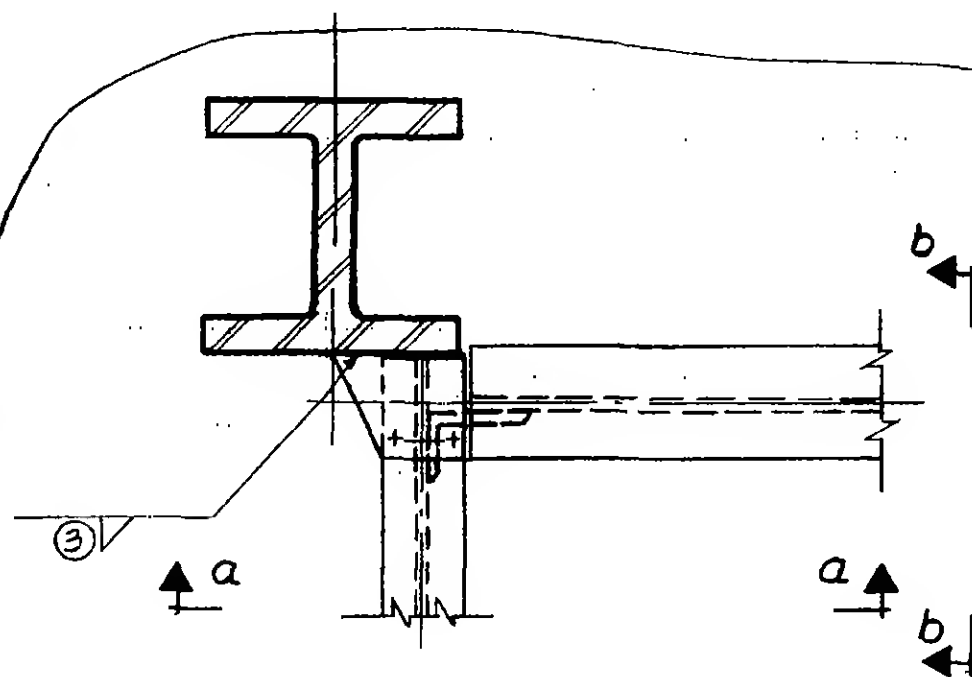
REVISIONS

10-31-67

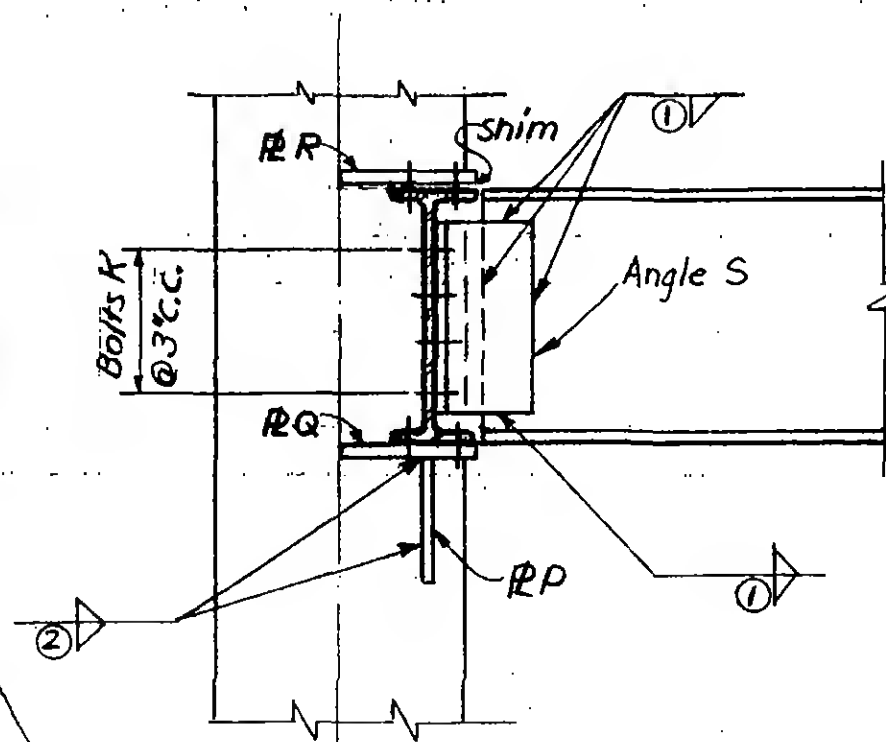


REVISIONS

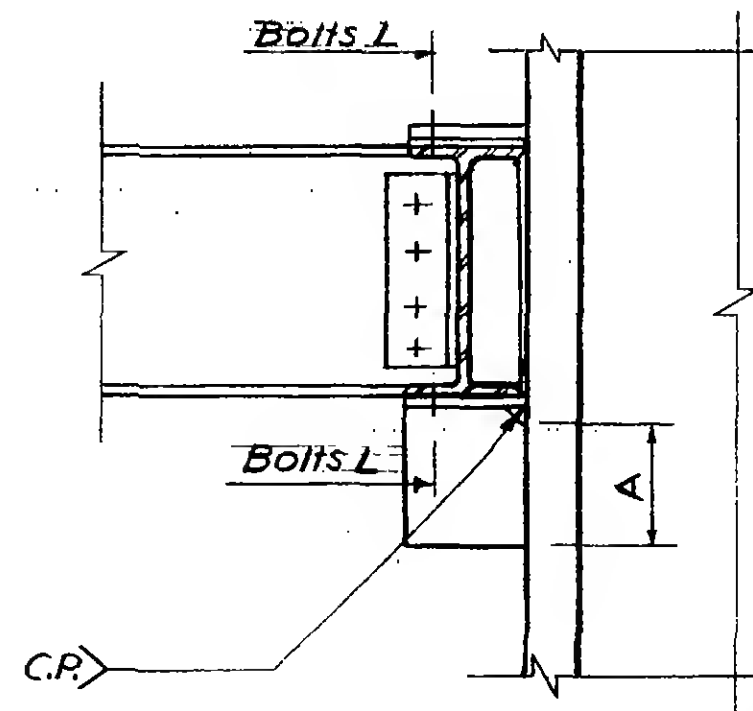
10-2-67



Plan



Section a-a



Section b-b



Structural & Civil Engineers

TITLE SCHEDULE FOR DETAIL 221 A

DATE 10-2-67

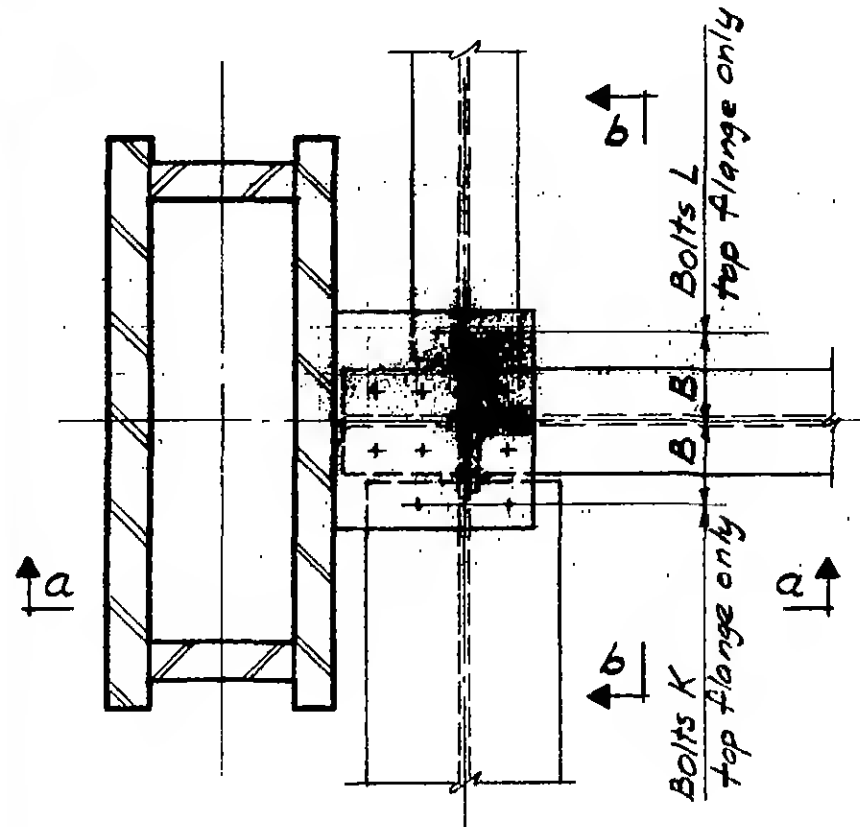
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6-ABI-28.1

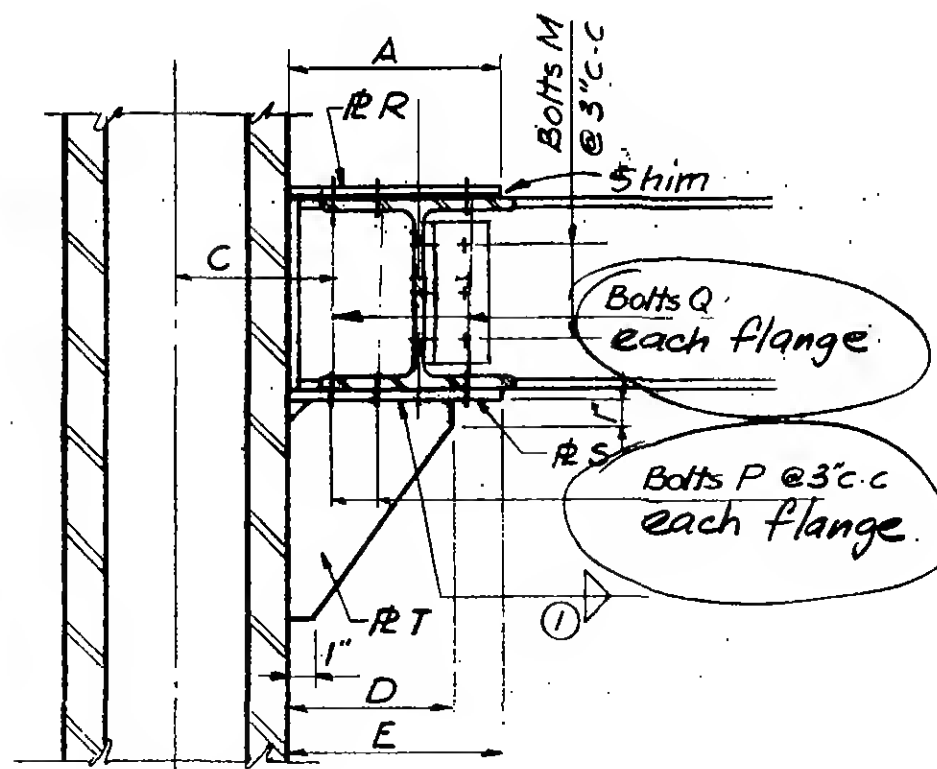


REVISIONS

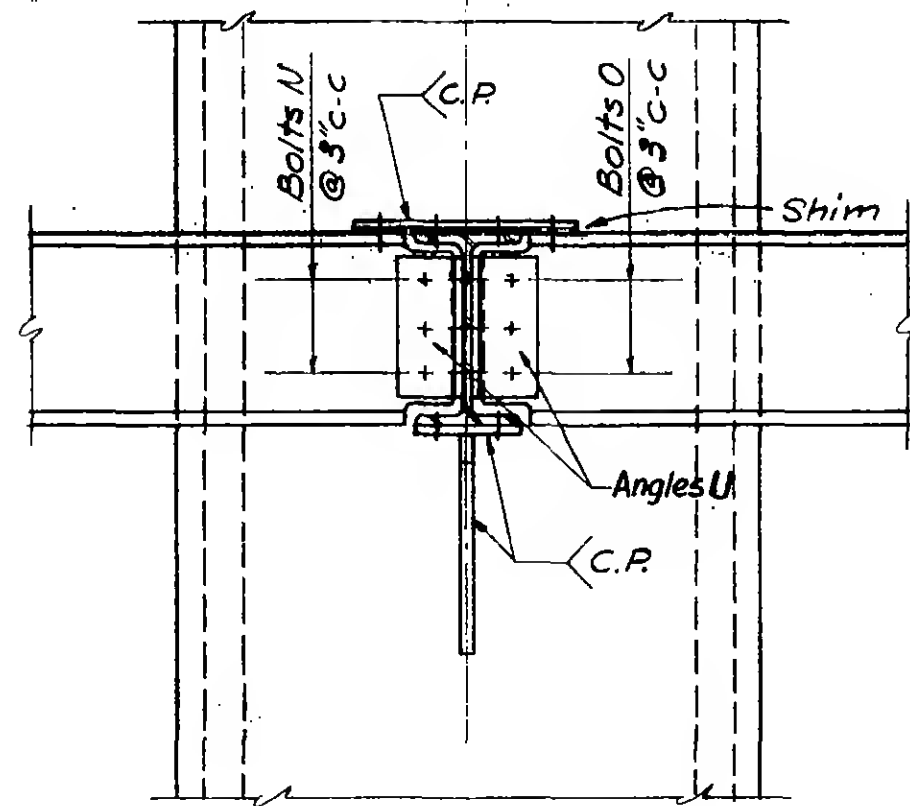
7-28-67



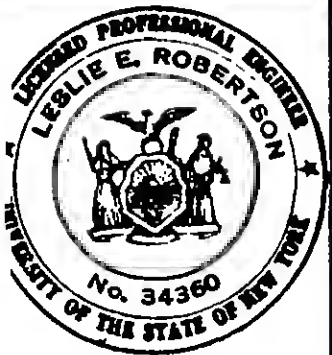
PLAN



SECTION a-a



SECTION b-b



PROJECT THE WORLD TRADE CENTER

TITLE SCHEDULE FOR DETAIL 222 A, B

DATE 6-30-67

REVISIONS

7-28-67

	222 A	222 B				
PLATES						
R	13 1/2" x 58"	14 1/2" x 58"				
S	6 1/2" x 58"	7" x 58"				
T	15" x 1/2"	15" x 1/2"				
ANGLES						
U	4 x 4 x 7/16 x 0'-9"	4 x 4 x 3/8 x 0'-9"				
DIMENSIONS						
A	1'-0 3/4"	0'-9 1/4"				
B	0'-5 1/4"	0'-5 1/2"				
C	0'-10"	0'-10"				
D	0'-10"	0'-7 1/2"				
E	0'-10"	0'-10"				
BOLTS						
K	2 - 7/8" ϕ (A325)	2 - 1" ϕ (A325)				
L	2 - 7/8" ϕ (A325)	2 - 1" ϕ (A325)				
M	3 - 1" ϕ (A325)	3 - 7/8" ϕ (A325)				
N	3 - 1" ϕ (A325)	3 - 7/8" ϕ (A325)				
O	3 - 1" ϕ (A325)	3 - 3/4" ϕ (A325)				
P	4 - 1" ϕ (A325)	—				
Q	—	4 - 1" ϕ (A325)				
WELDS						
(1)	5/16	5/16				

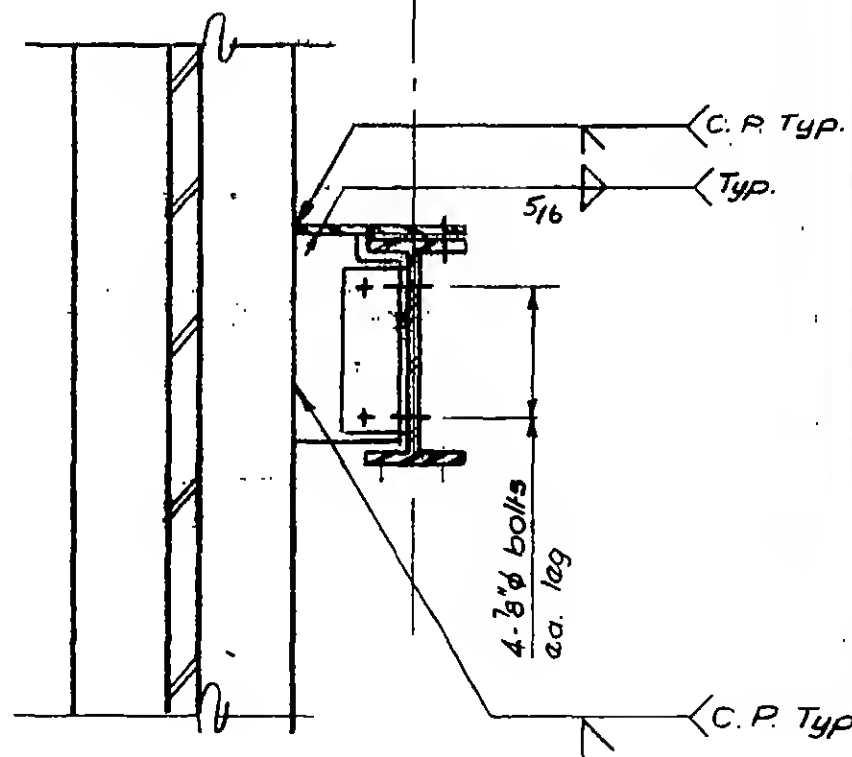
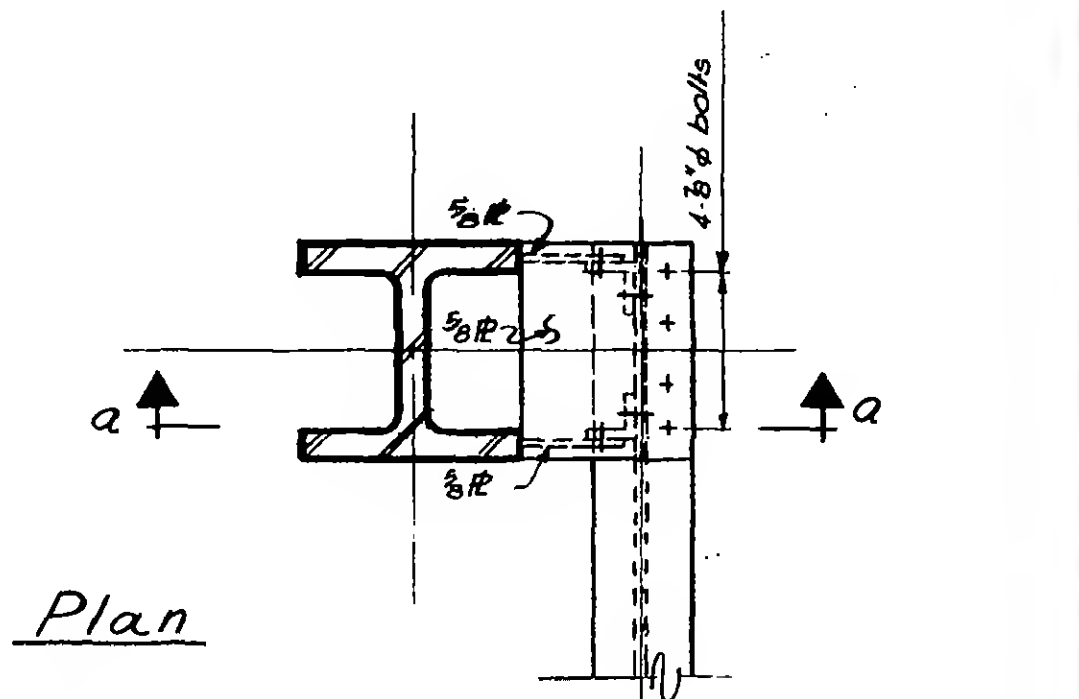
PROJECT THE WORLD TRADE CENTER

TITLE CONNECTION DETAIL 224 A B & C

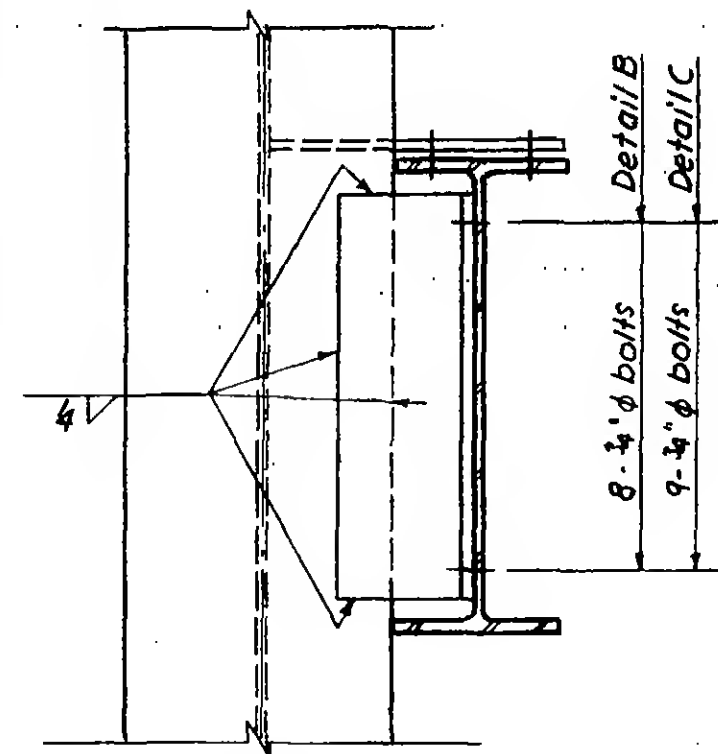
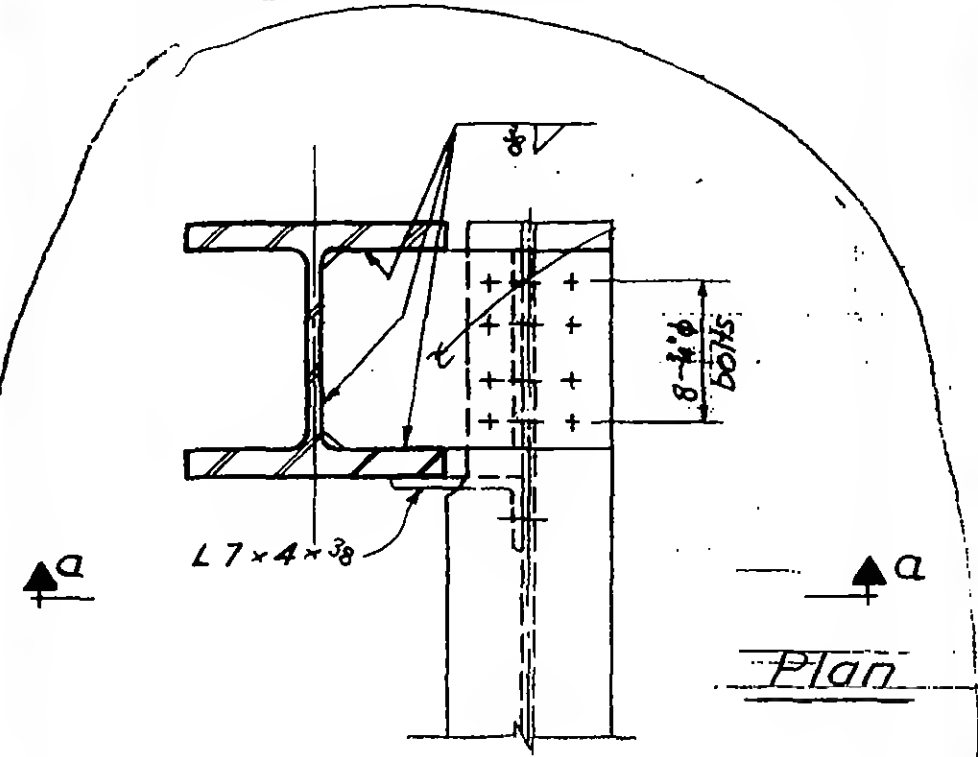
DATE 6-30-67

REVISIONS

10-5-67
12-21-67

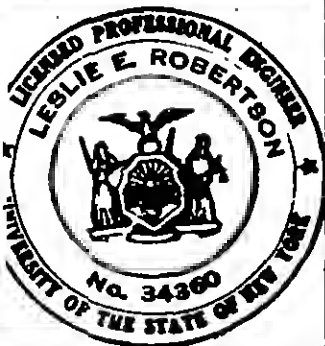


Detail 224 A



Detail 224 B & C

G-ABI-31



PROJECT

THE WORLD TRADE CENTER

TITLE

CONNECTION DETAIL 225 A

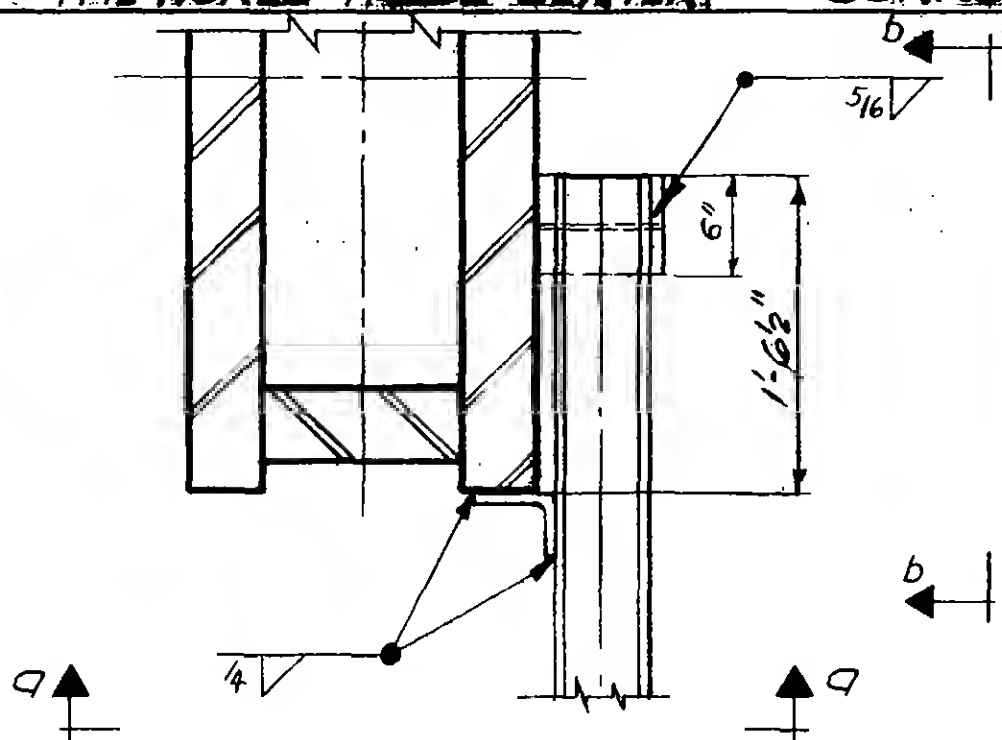
DATE

7/14/67

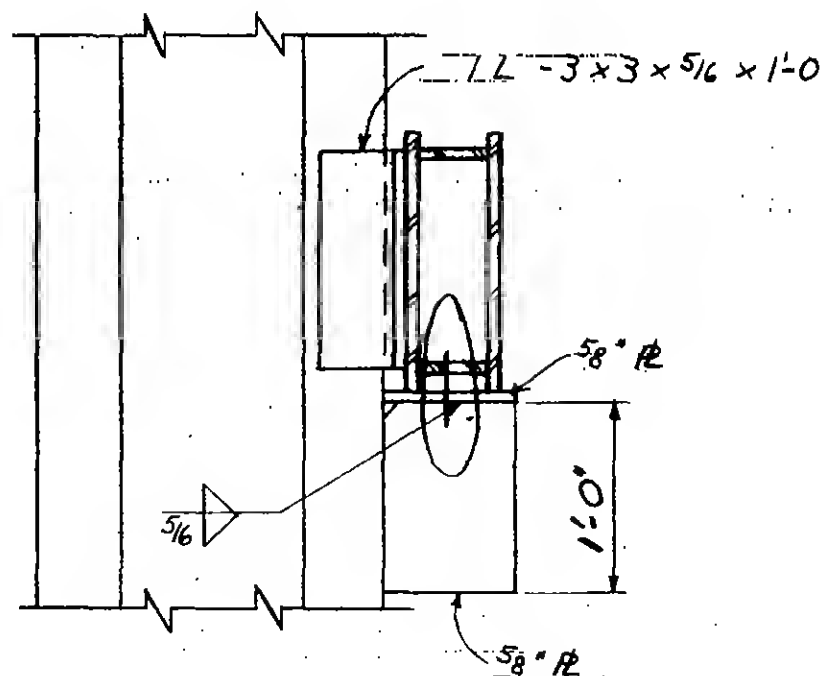
REVISIONS

8-5-67

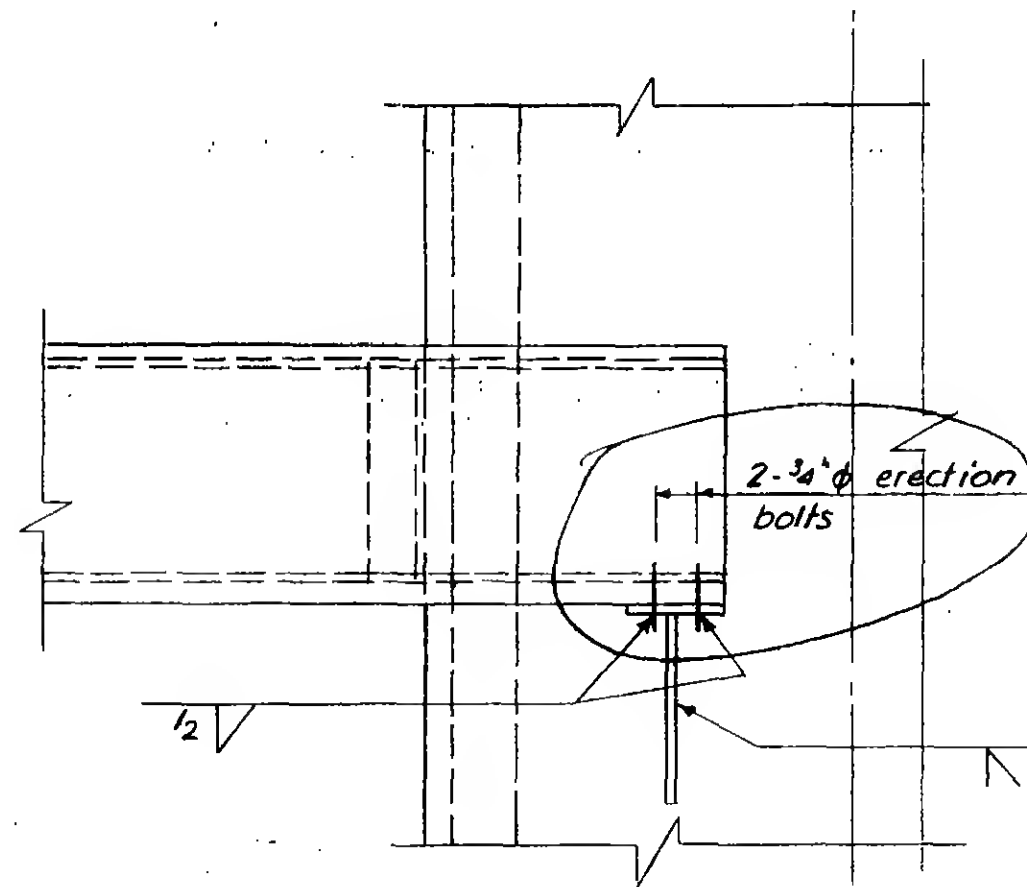
11-14-67



Plan



Section a-a



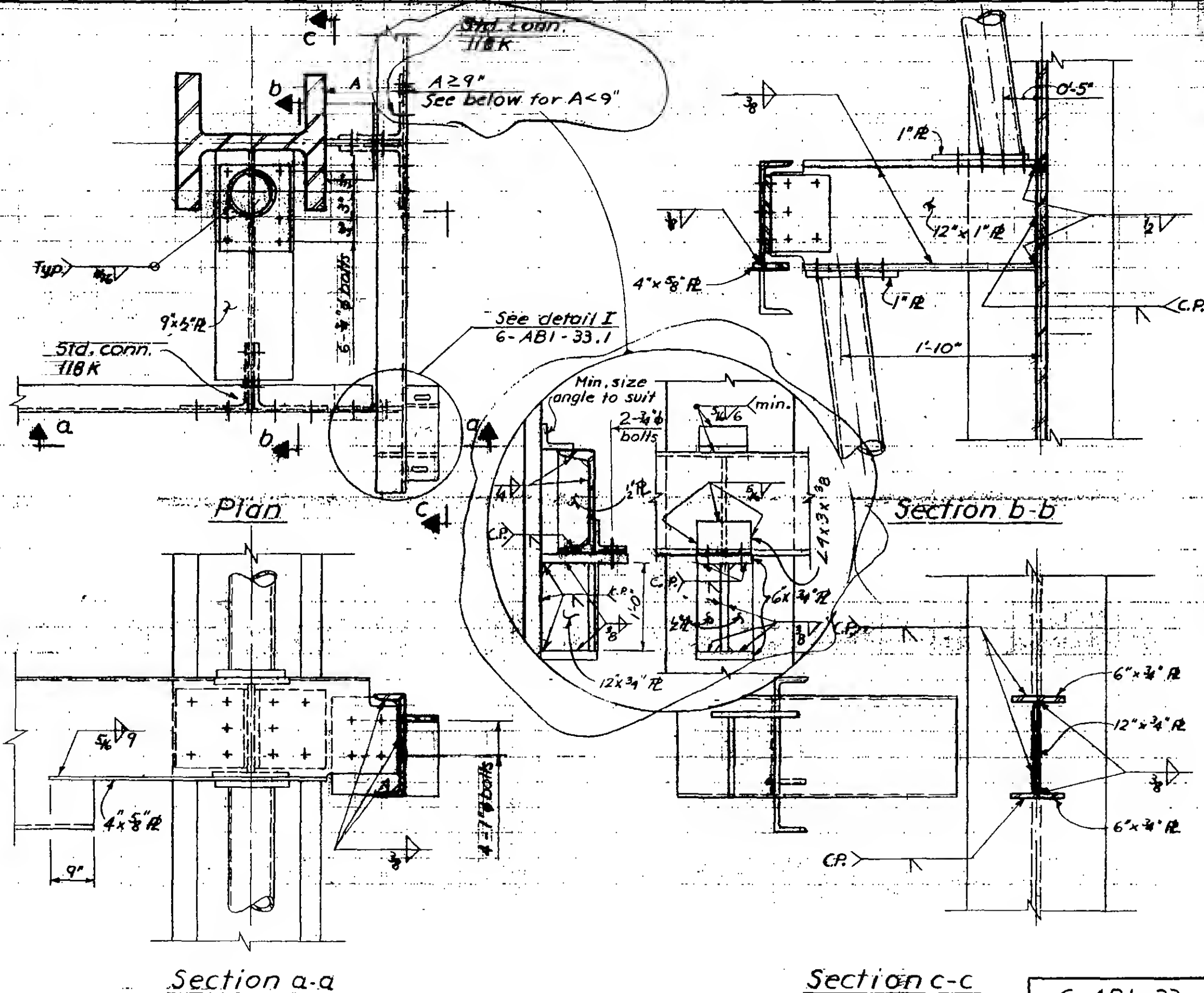
Section b-b



REVISIONS

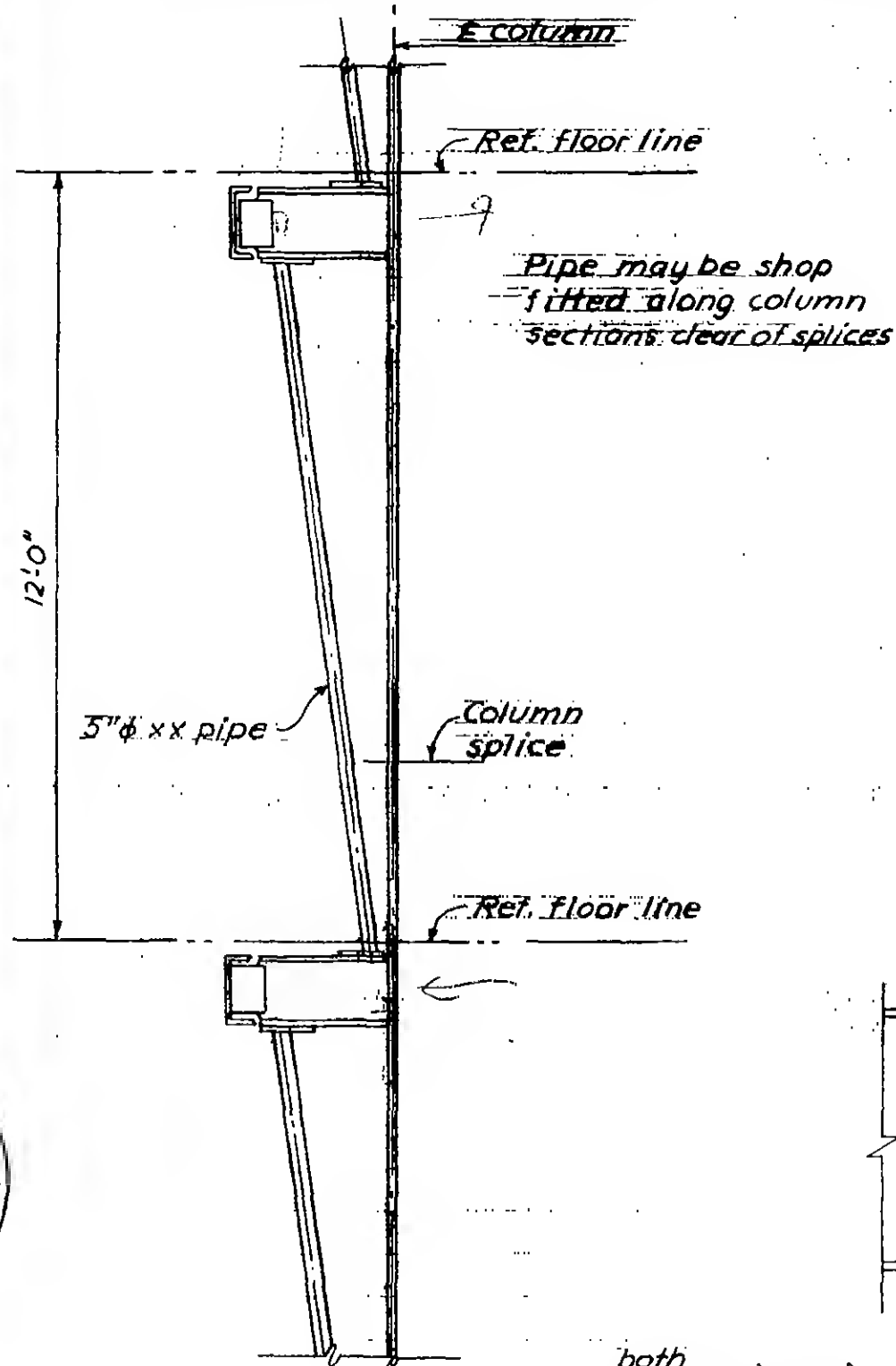
10-5-67

5-6-68

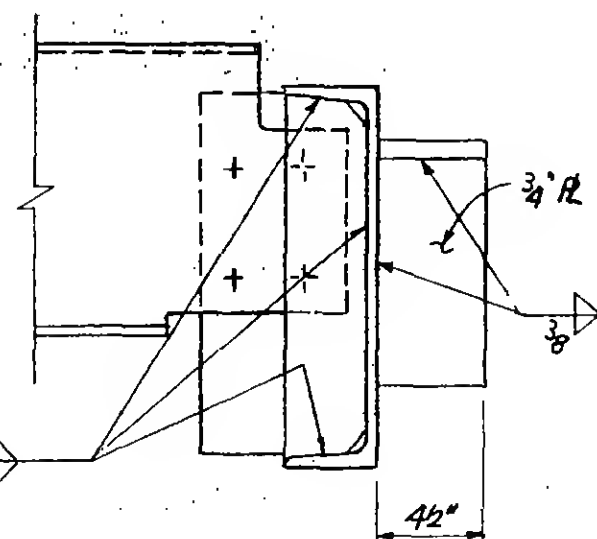


REVISIONS

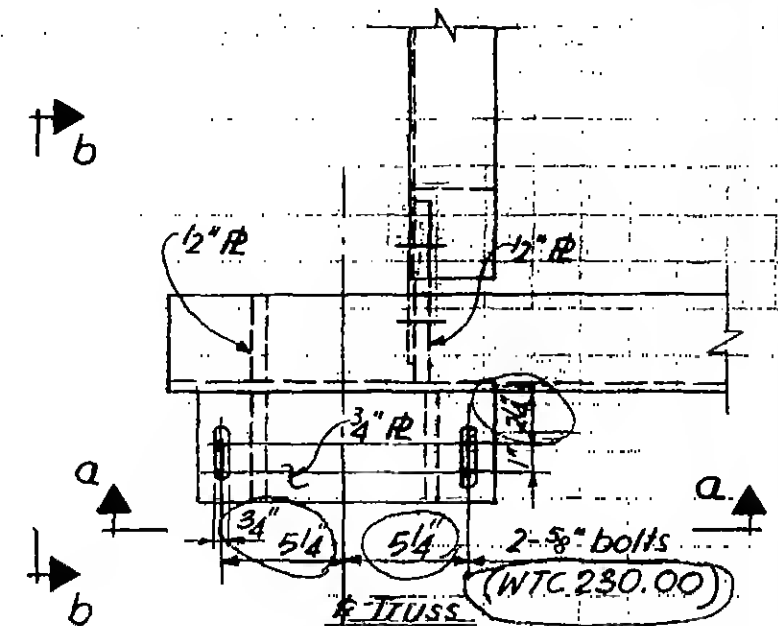
11-21-67



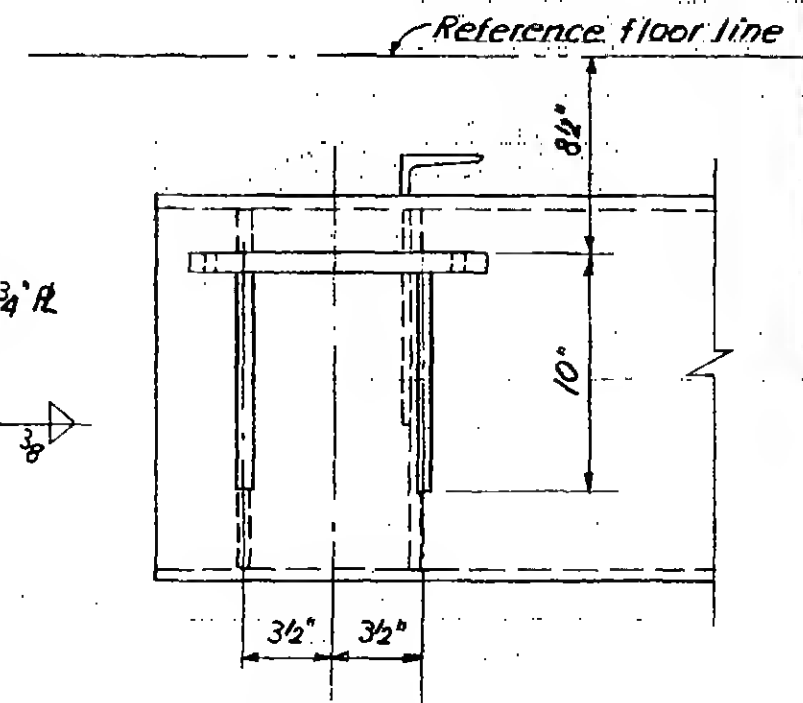
Elevation



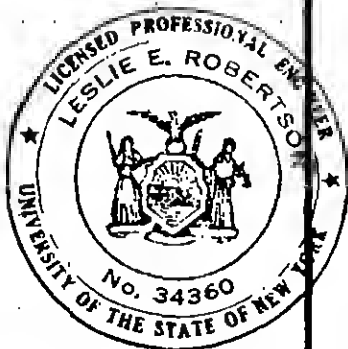
Section b-b



Plan
Detail I



Section a-a



PROJECT

THE WORLD TRADE CENTER

TITLE

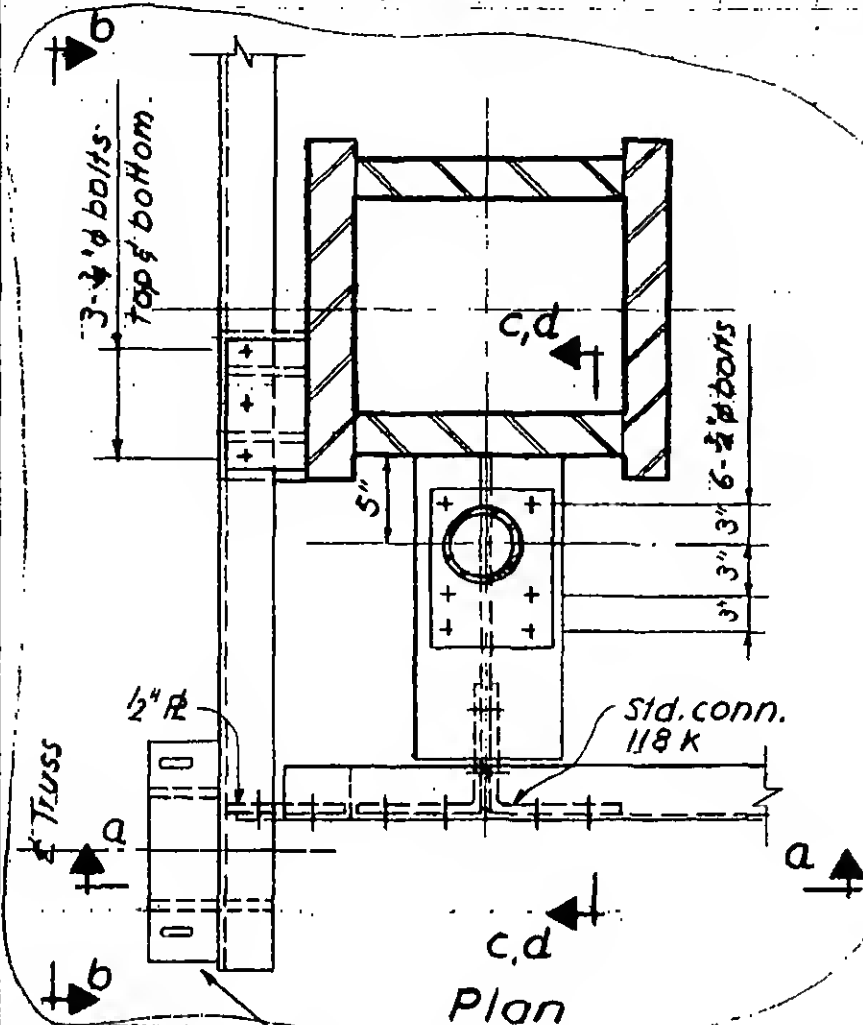
CONNECTION DETAIL 227

DATE

6-5-67

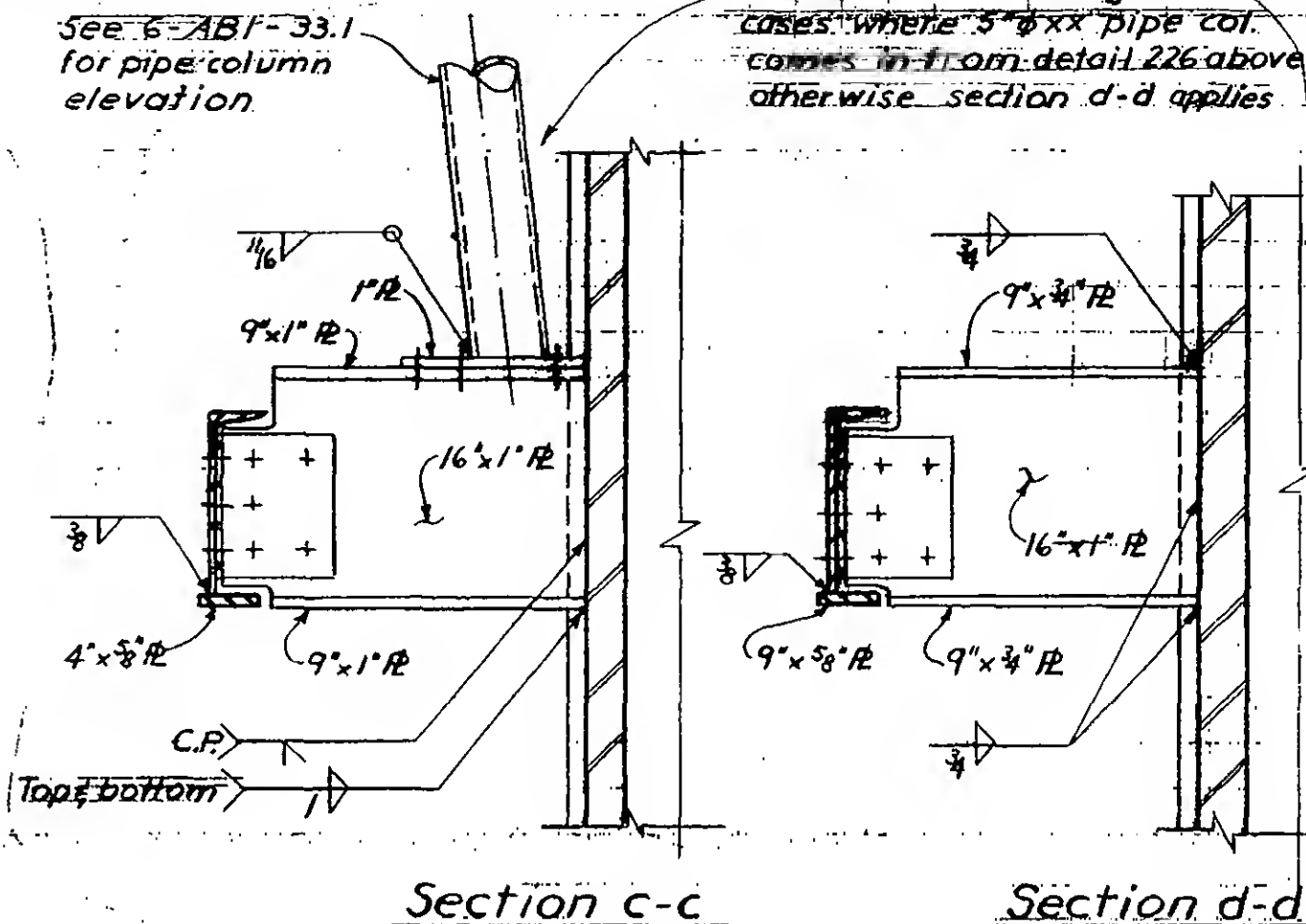
REVISIONS

10-5-67

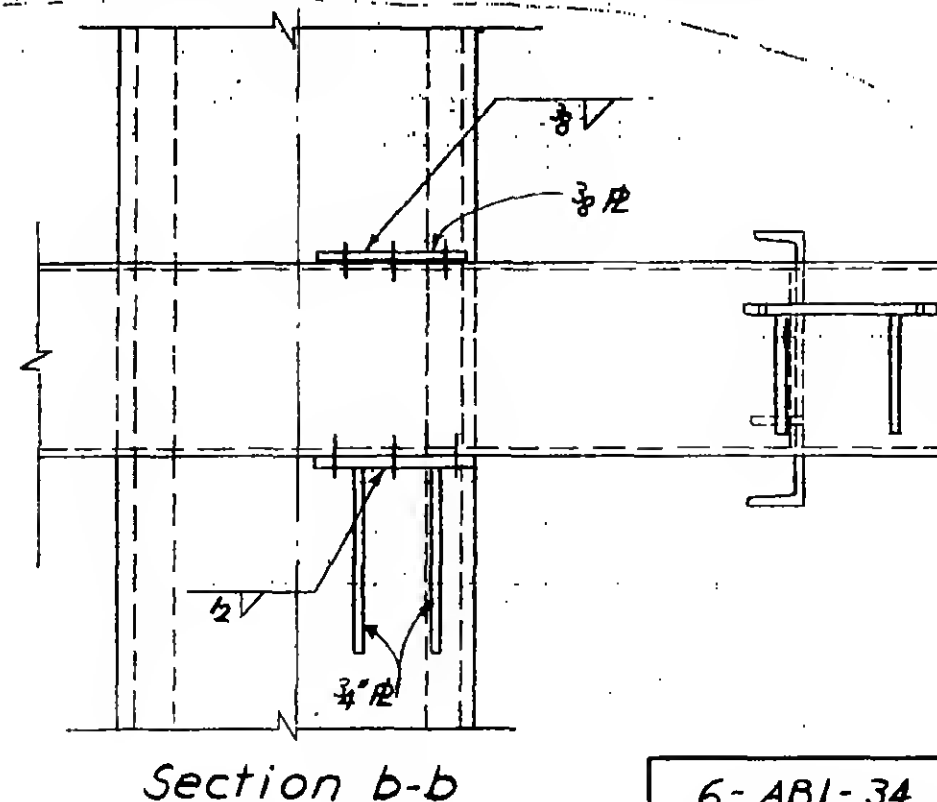
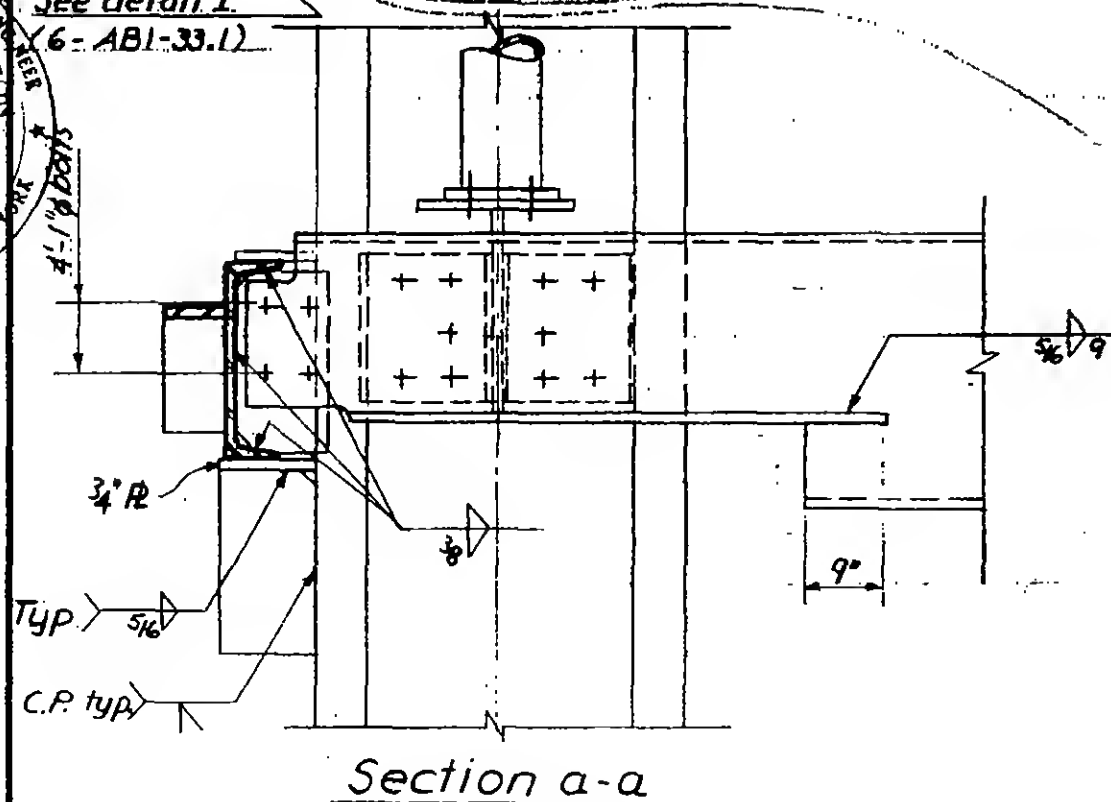


See 6-ABI-33.1
for pipe column
elevation.

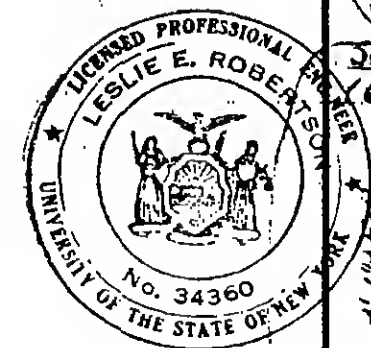
Use section c-c only for
cases where 5" dia pipe col.
comes in from detail 226 above
otherwise section d-d applies



See detail I.
(6-ABI-33.1)



6-ABI-34



PROJECT THE WORLD TRADE CENTER

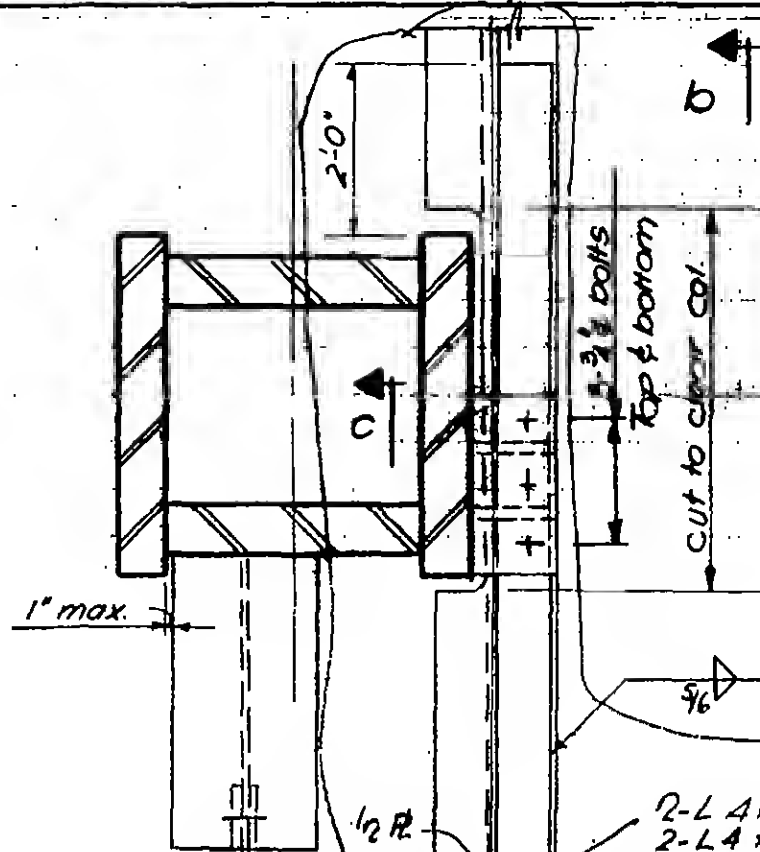
TITLE CONNECTION DETAIL 228 A & B

DATE 11-30-67

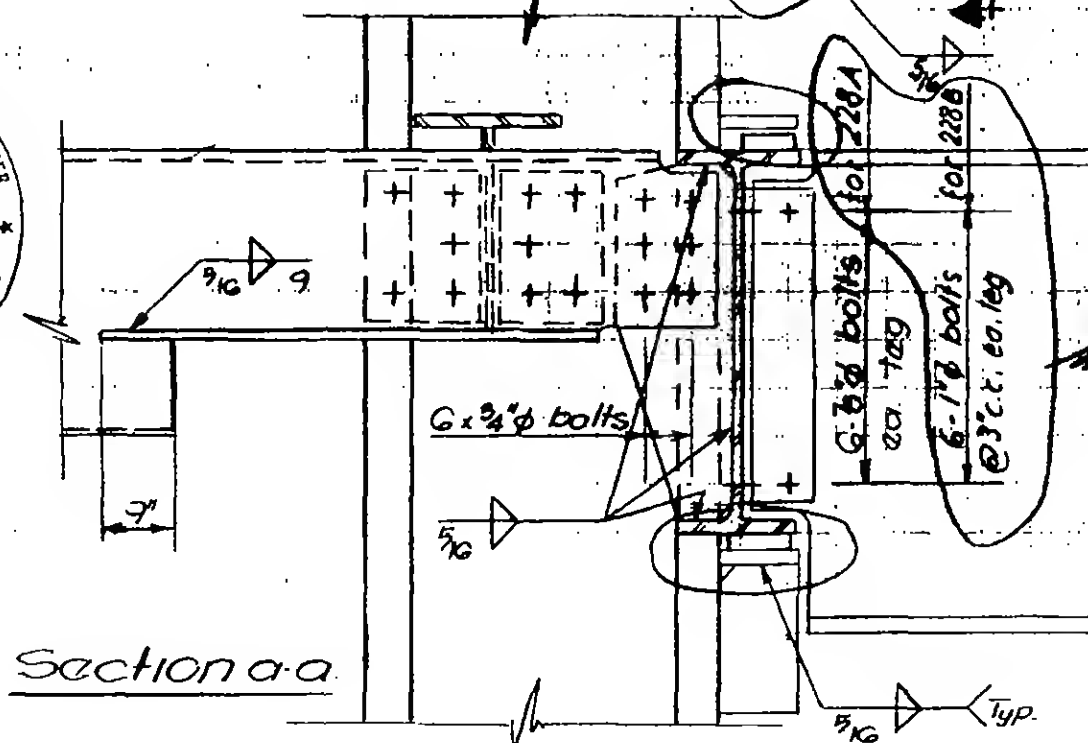
REVISIONS

10-5-67

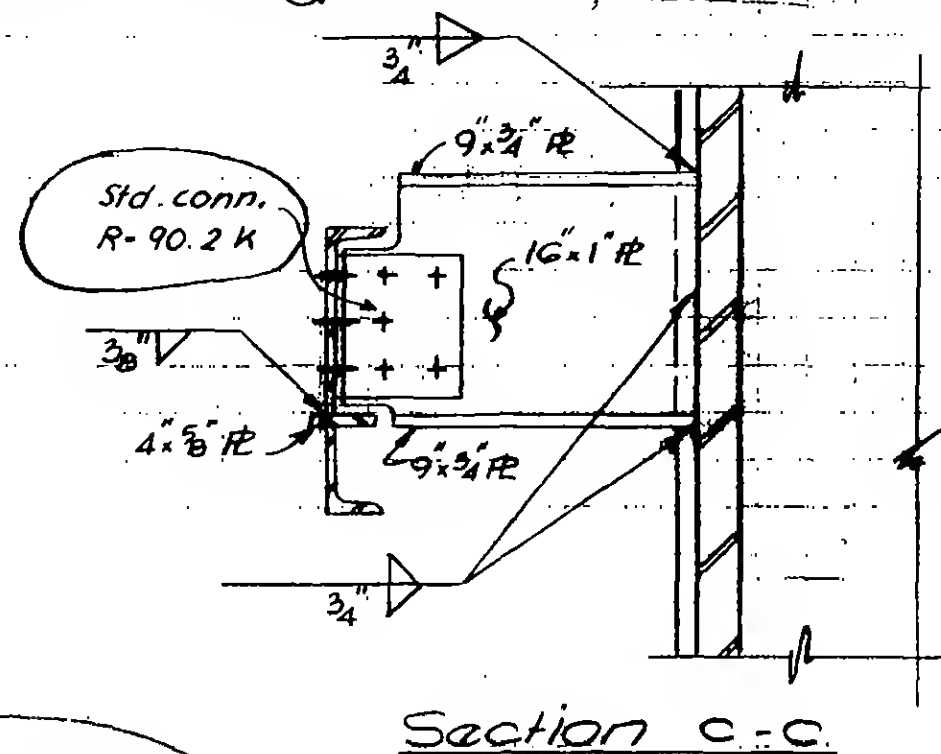
11-23-67



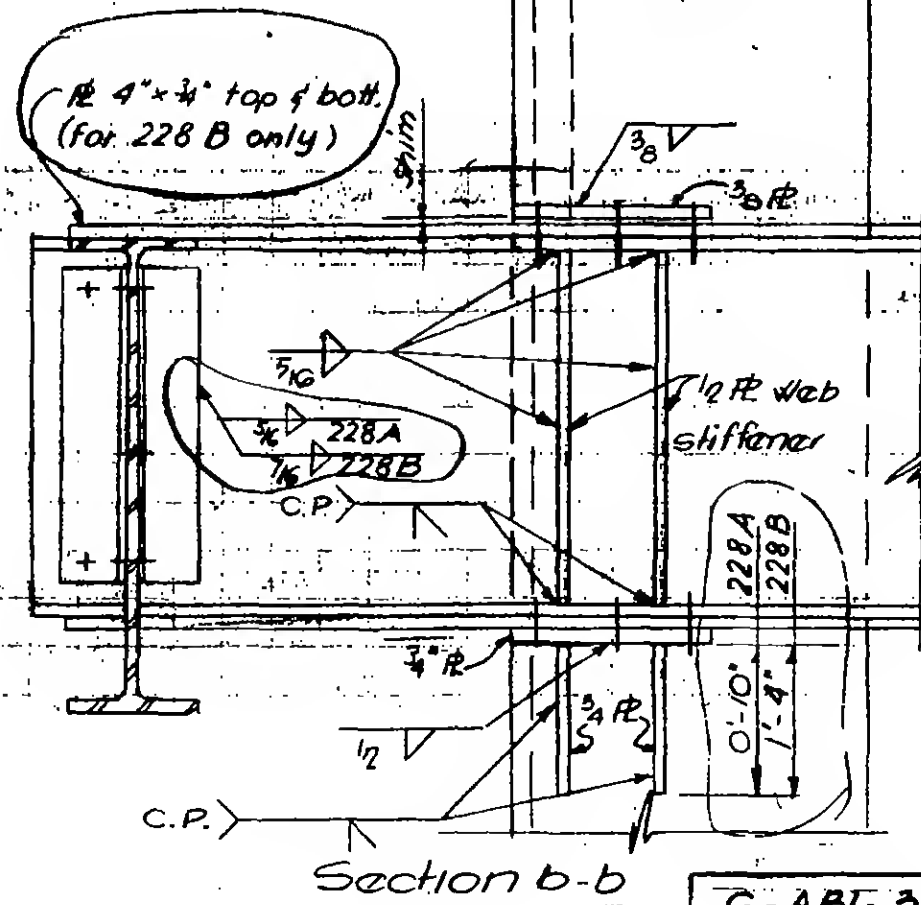
Plan



Section a-a



Section c-c

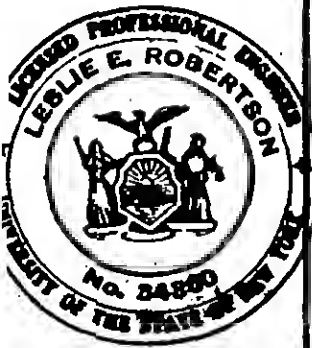
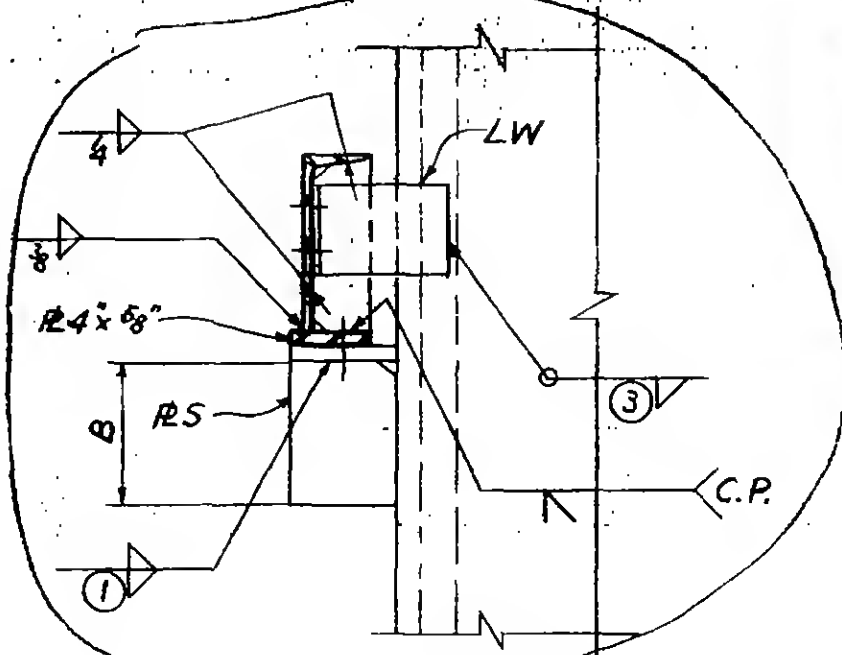
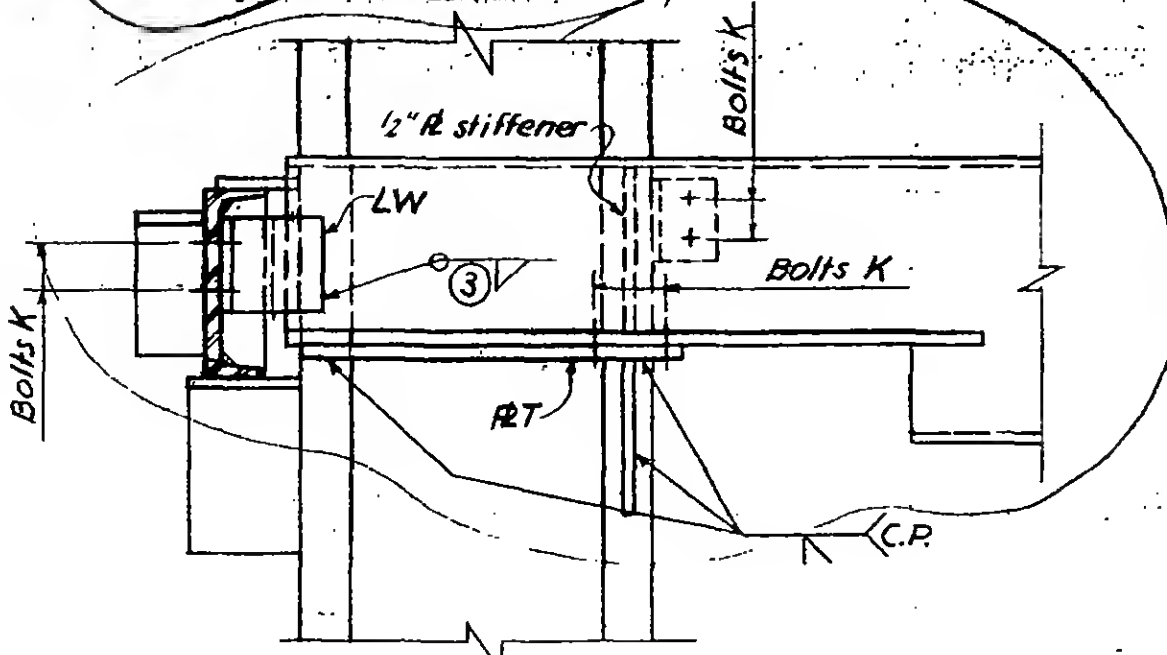
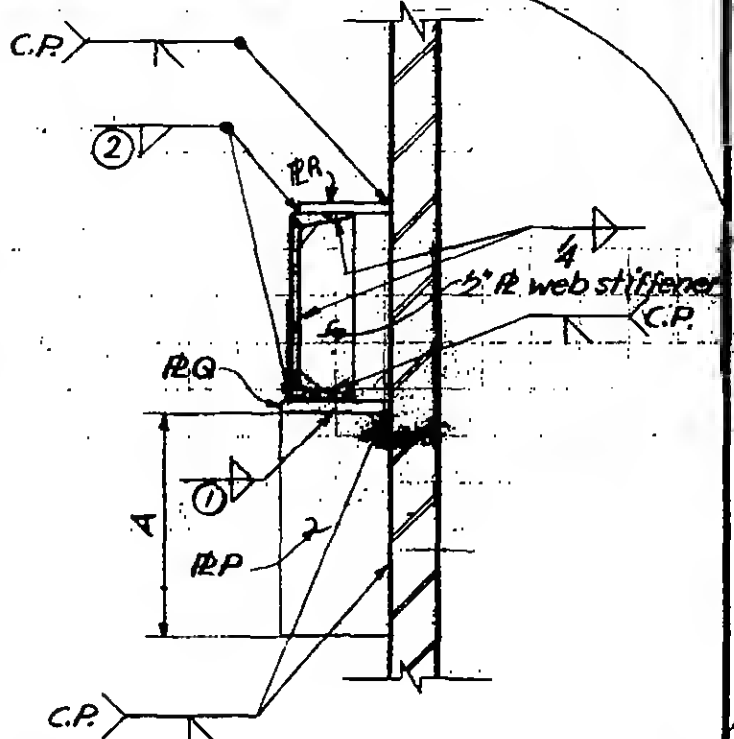
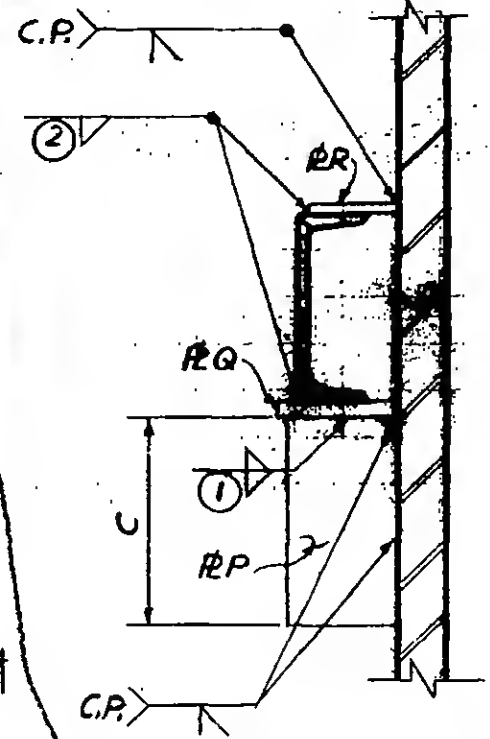
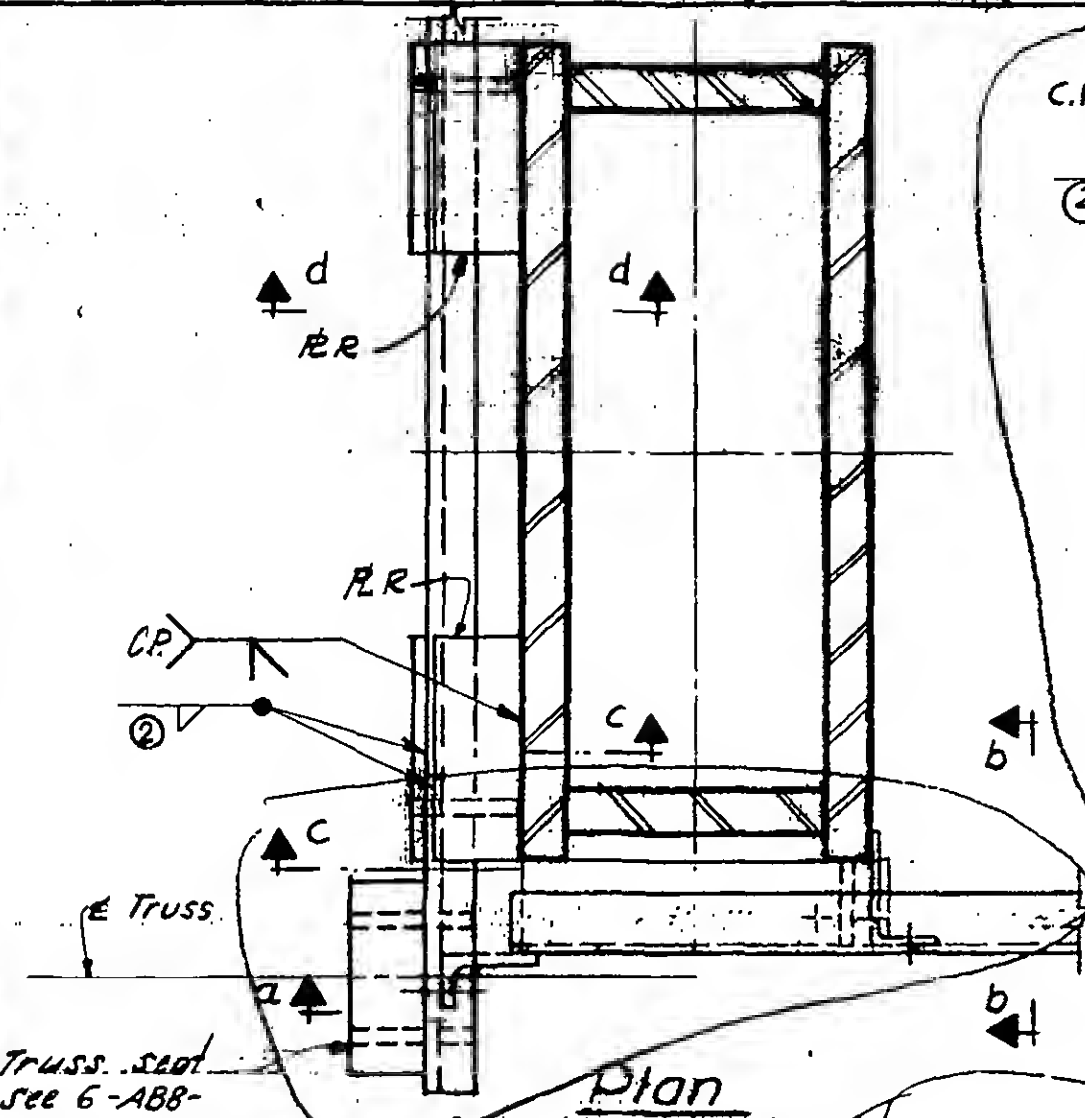


Section b-b

REVISIONS

9-15-67

11-10-67



Structural & Civil Engineers

TITLE SCHEDULE FOR DETAIL 229 A & B

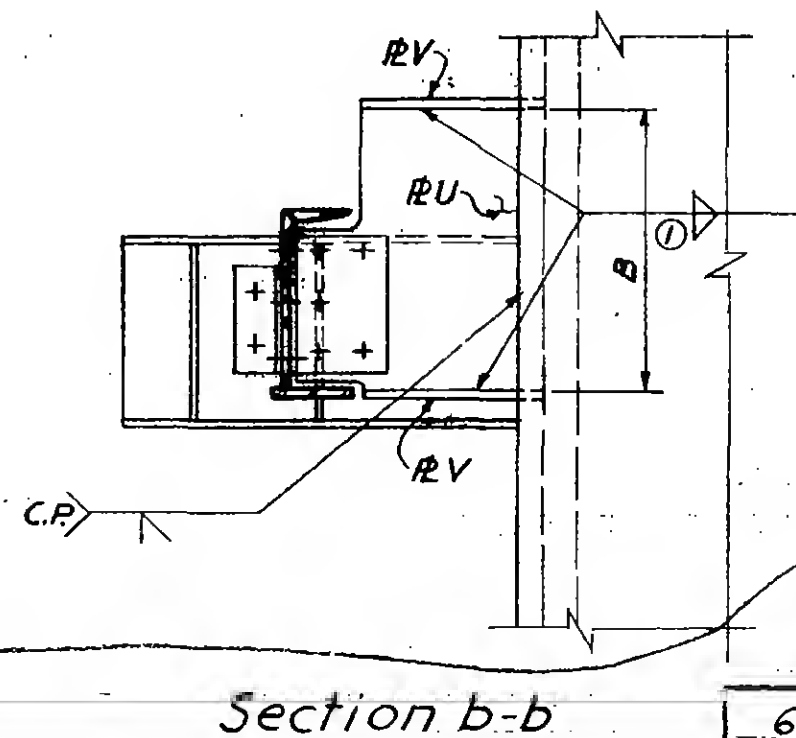
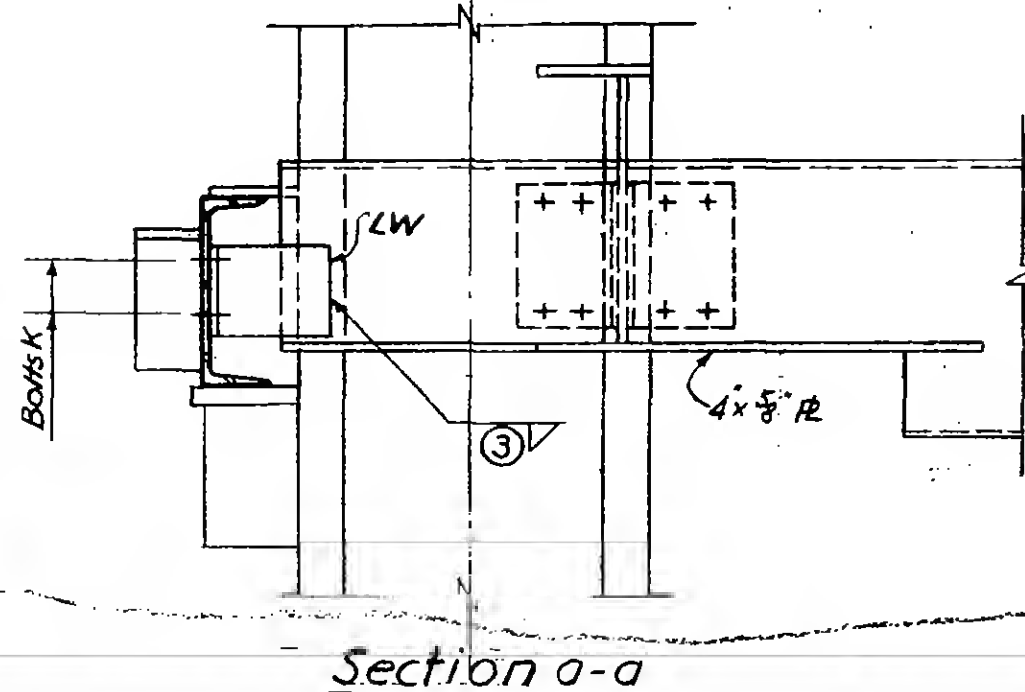
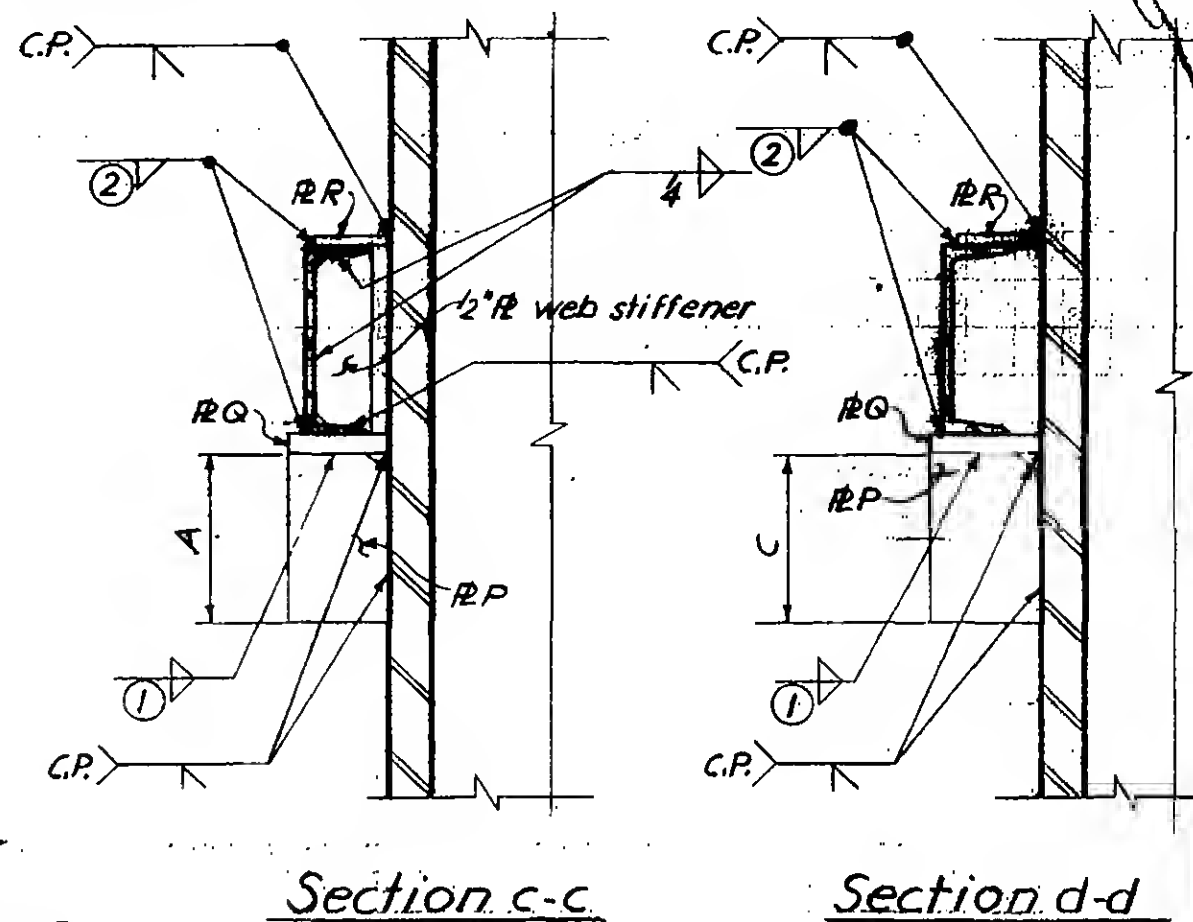
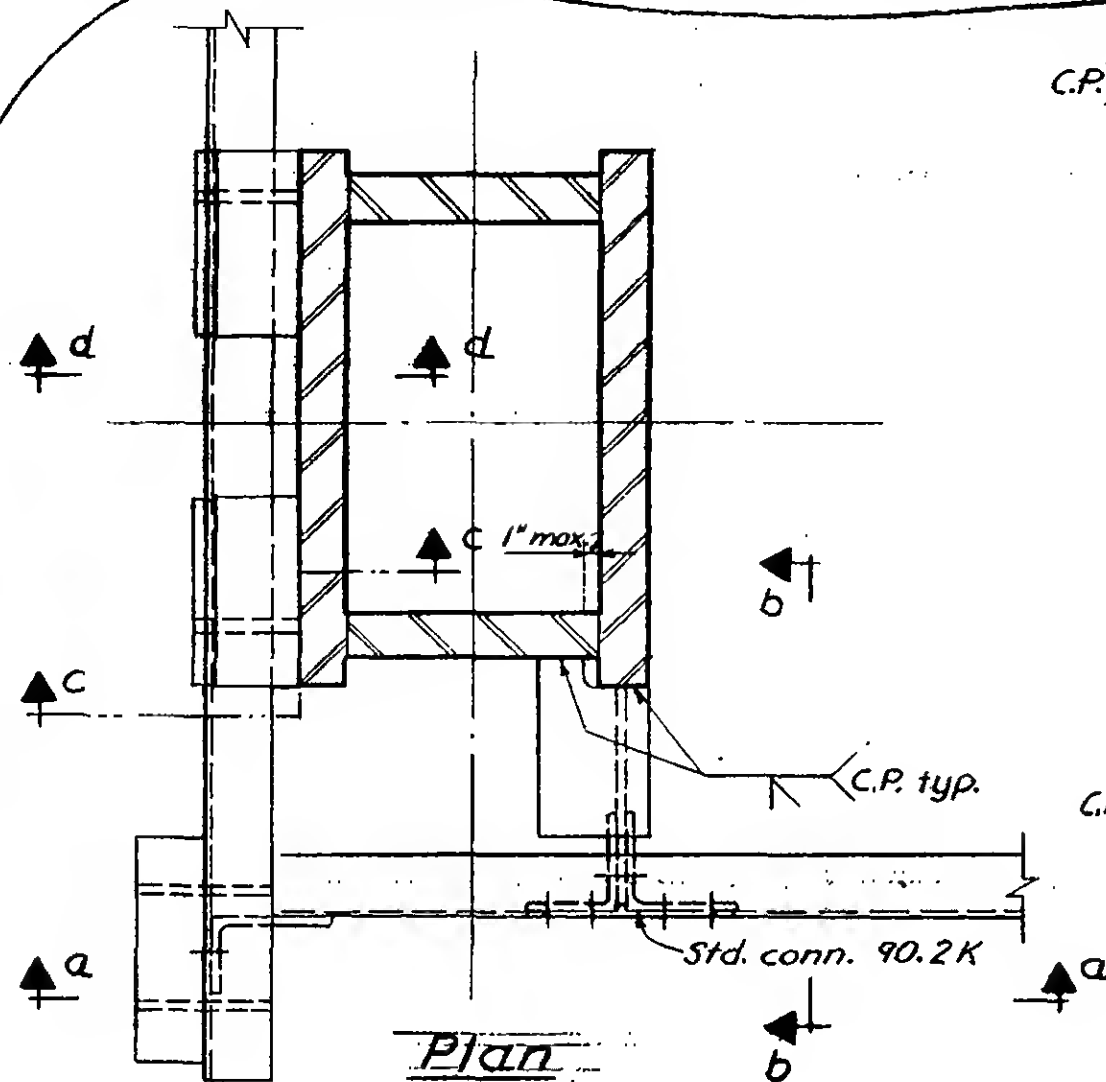
DATE 9-15-67

REVISIONS

11 - 10-67

REF. DWGS.	6-AB1-36	6-AB1-36.2
	229A	229B
PLATES		
P	7"x1"	7"x1"
Q	7"x1"x1'-0"	7"x1"x1'-0"
R	4½"x¾"x1'-0"	4½"x¾"x1'-0"
S	1"	—
T	1"	—
U	—	¾"
V	—	7"x¾"
DIMENSIONS		
A	1'-3"	1'-3"
B	1'-0"	1'-6"
C	0'-10"	0'-10"
BOLTS		
K	2 - ¾" Ø	2 - ¾" Ø
ANGLE		
W	7x4x¾x0'-6"	7x4x¾x0'-6"
WELDS		
(1)	⅝	⅝
(2)	½	½
(3)	⅝	⅝

REVISIONS



WORTHINGTON, SKILLING, HELLE & JACKSON

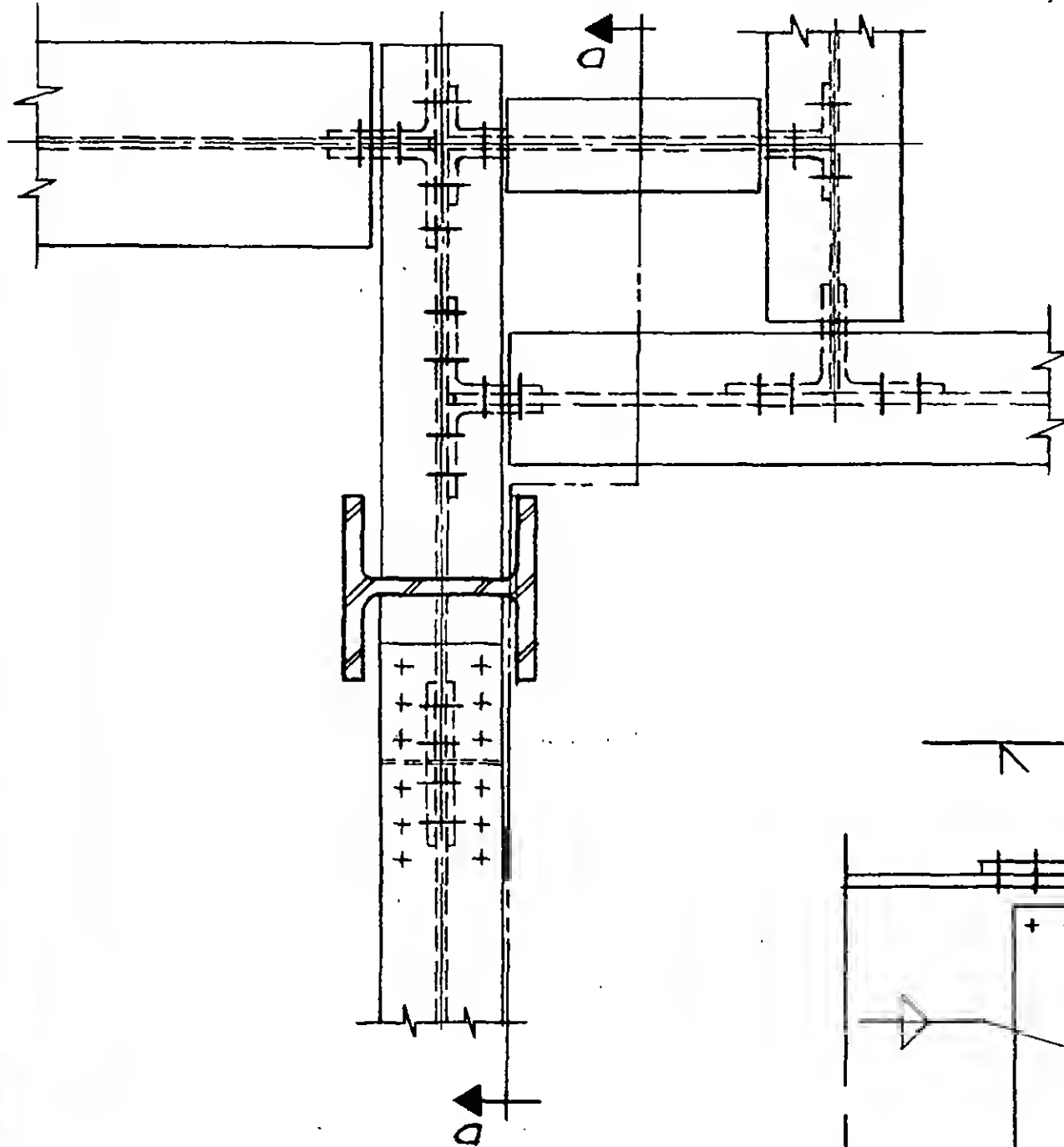
Civil & Structural Engineers

PROJECT *THE WORLD TRADE CENTER*

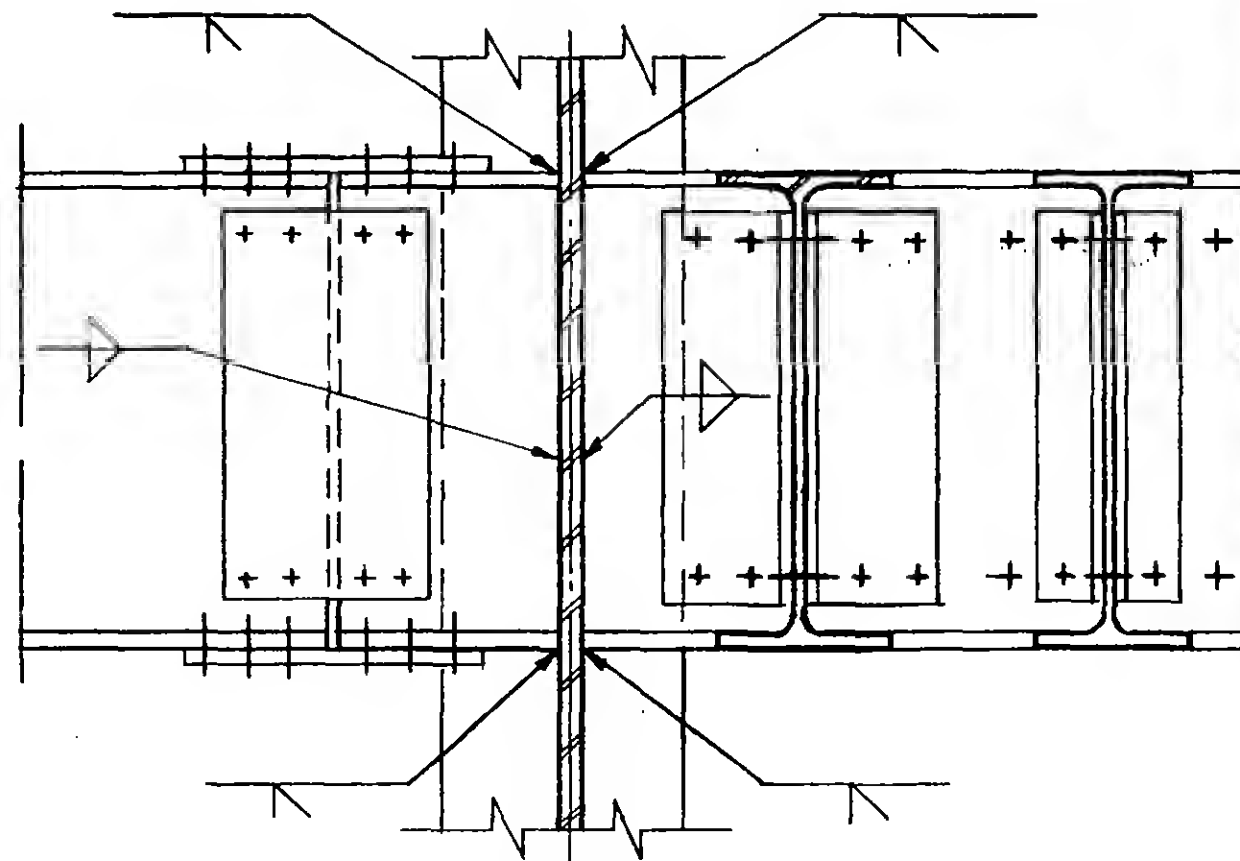
TITLE *CONNECTION DETAIL 230*

DATE *7/20/67*

REVISIONS

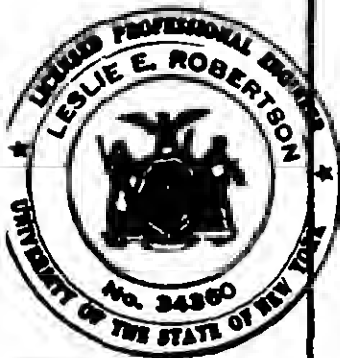


PLAN



Section a-a

6-ABI-37



PROJECT

THE WORLD TRADE CENTER

TITLE

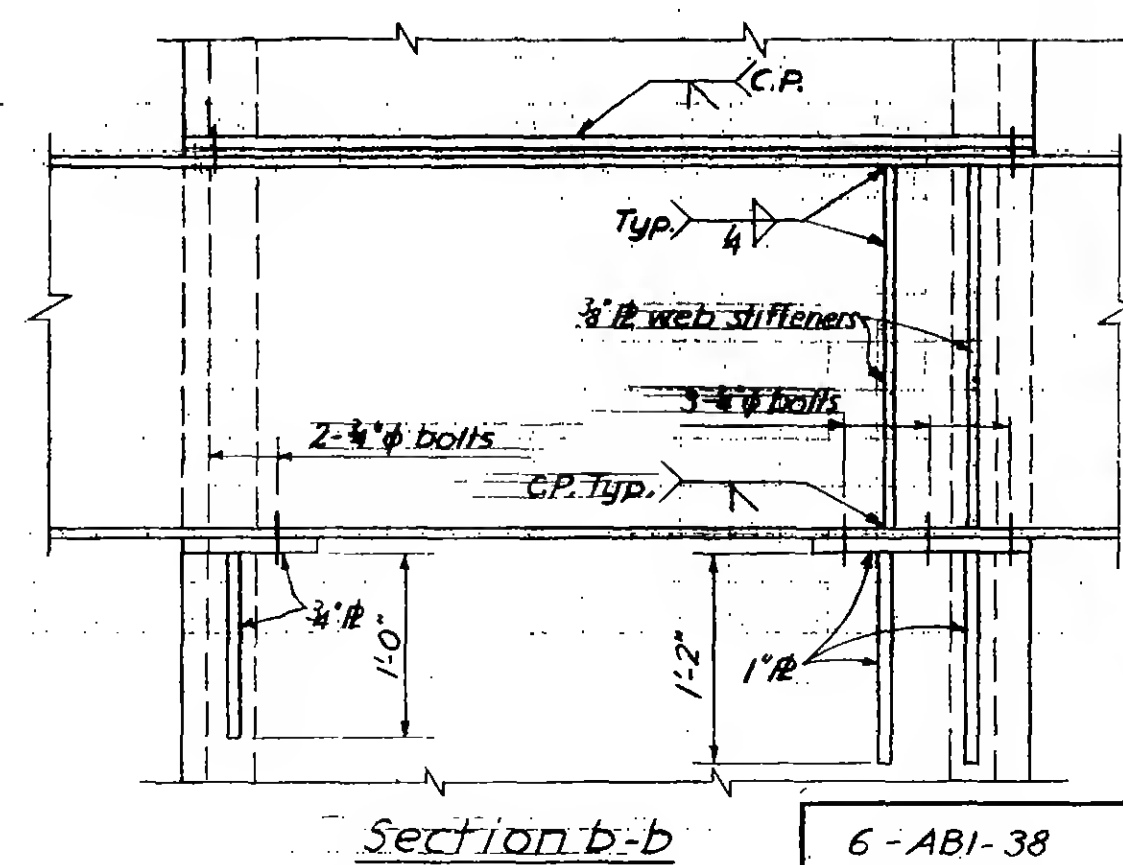
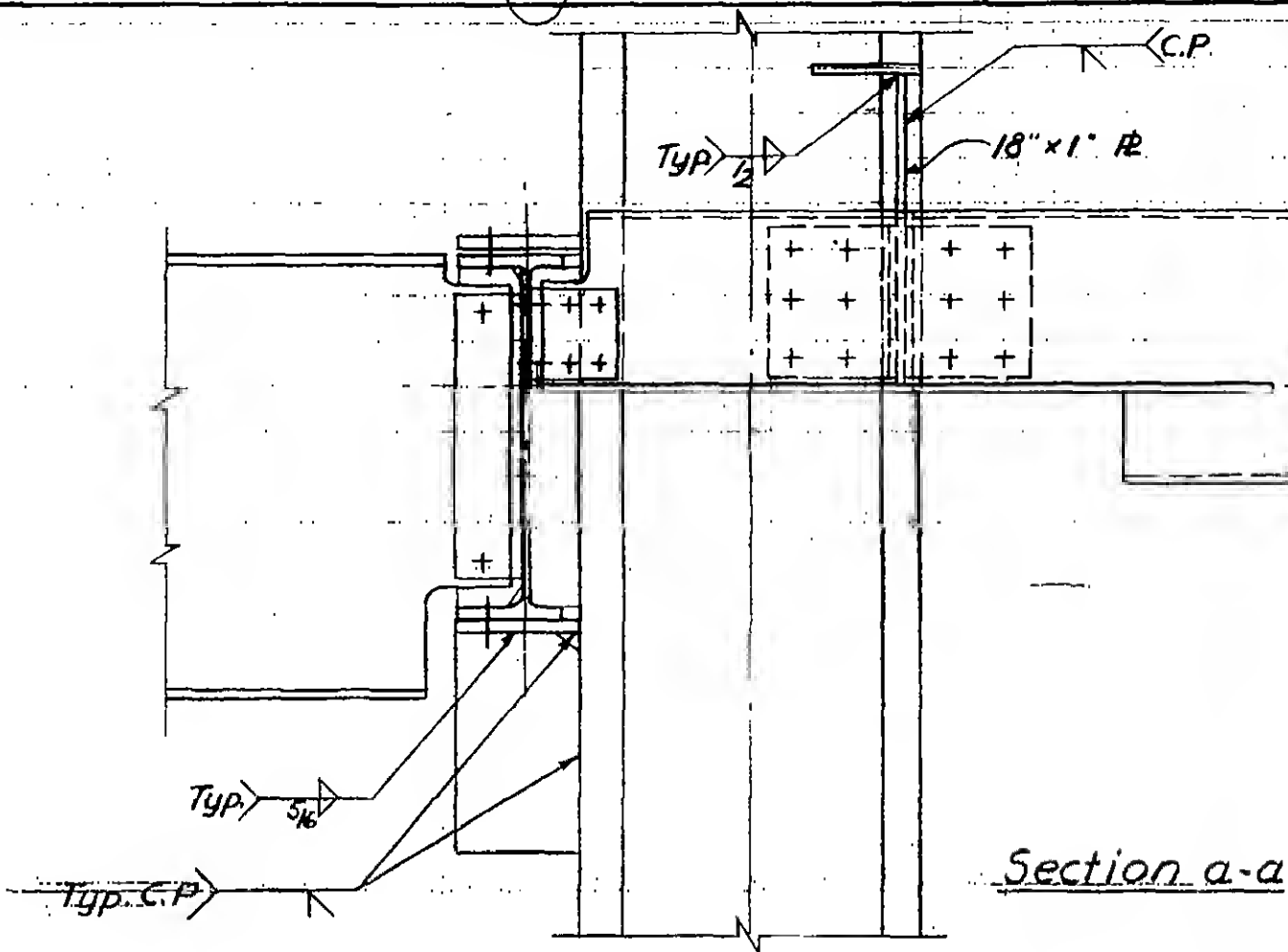
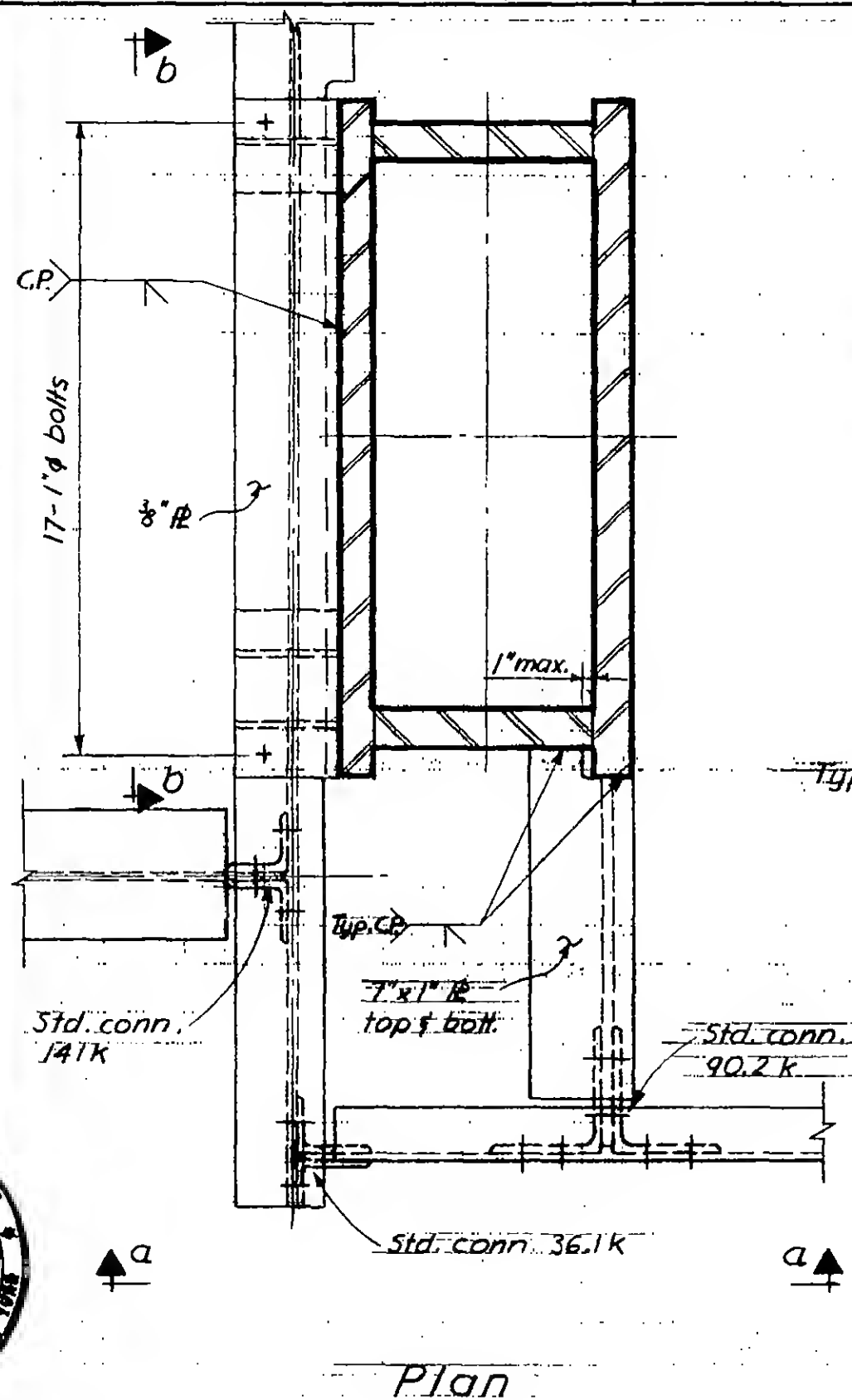
CONNECTION DETAIL 251A

DATE

6-5-67

REVISIONS

11-23-67



PROJECT THE WORLD TRADE CENTER

TITLE CONNECTION

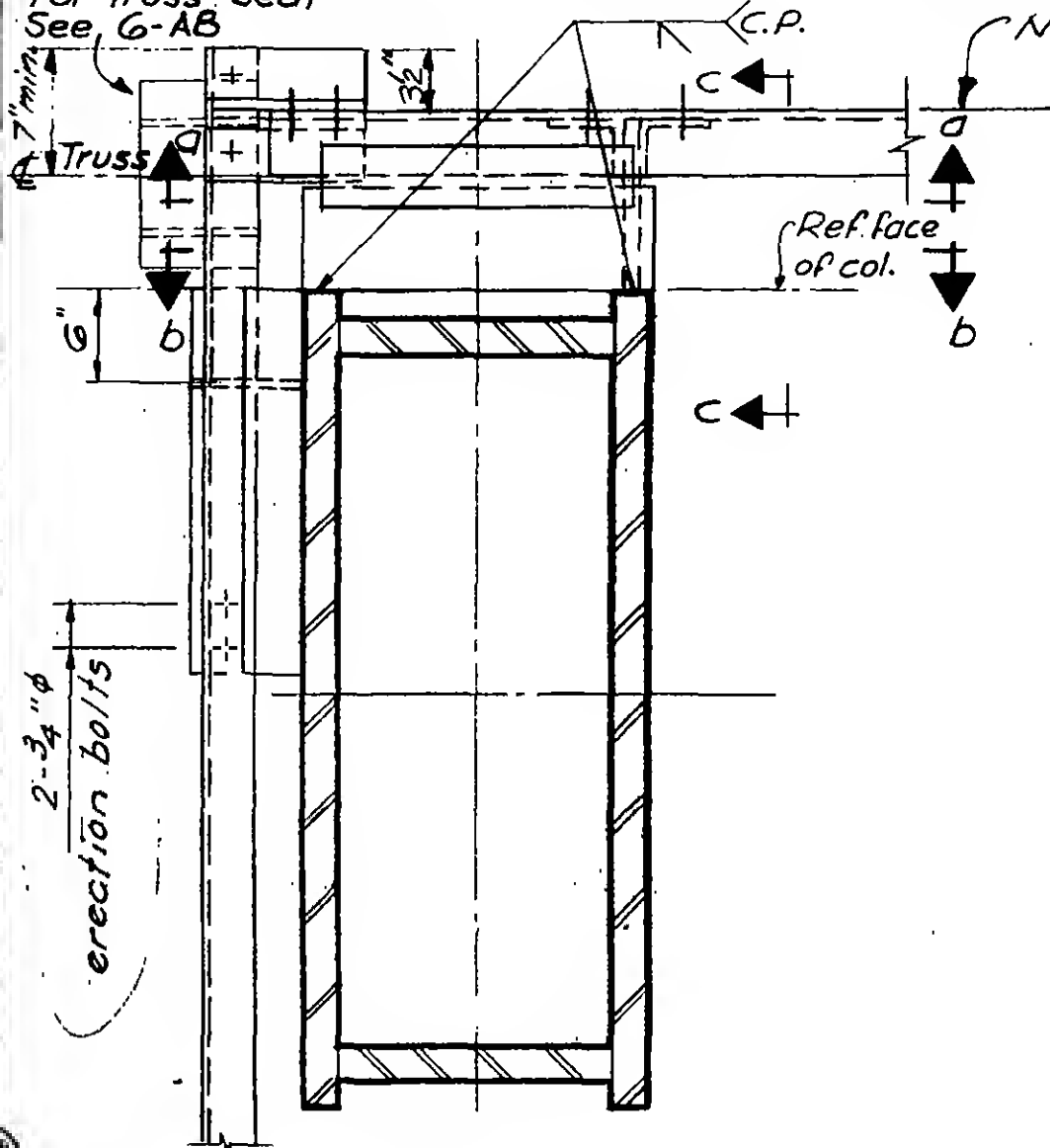
DETAIL 232 A, B & C

DATE 5-1-67

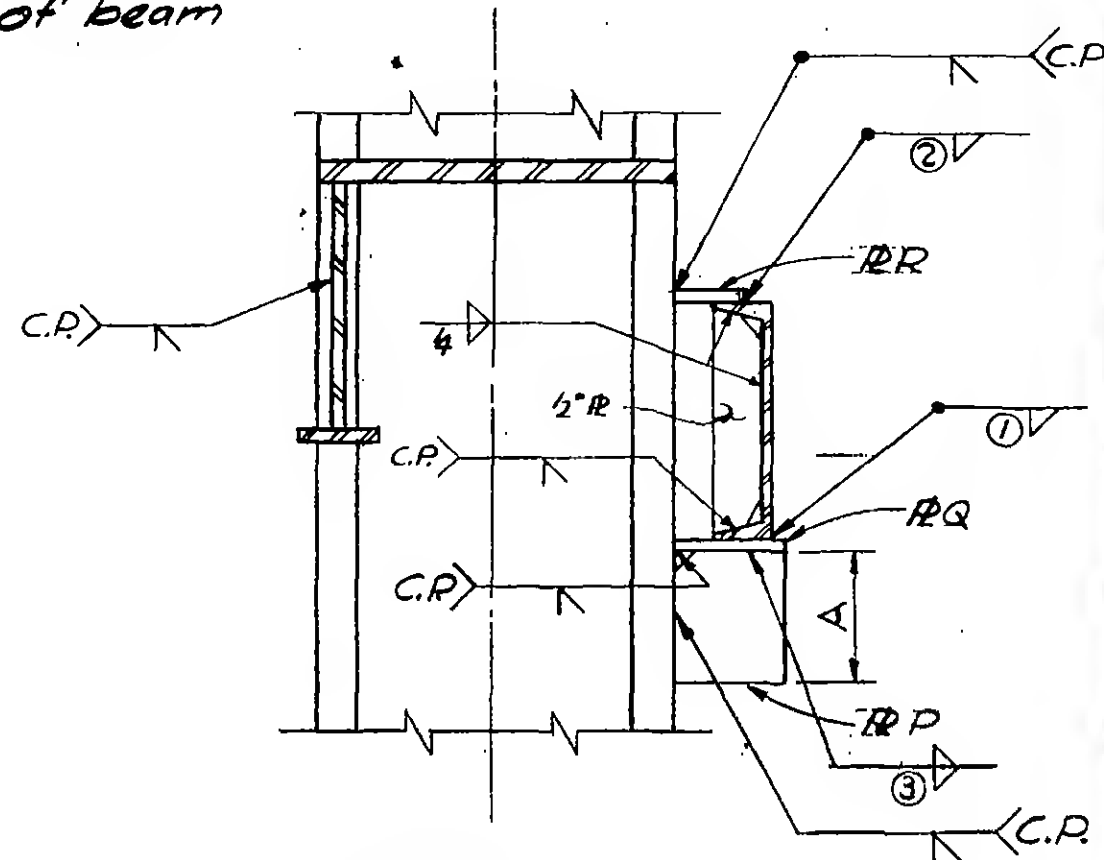
REVISIONS

5-9-67
7-28-67
9-15-67
11-10-67
12-7-67

For Truss seat
See G-AB

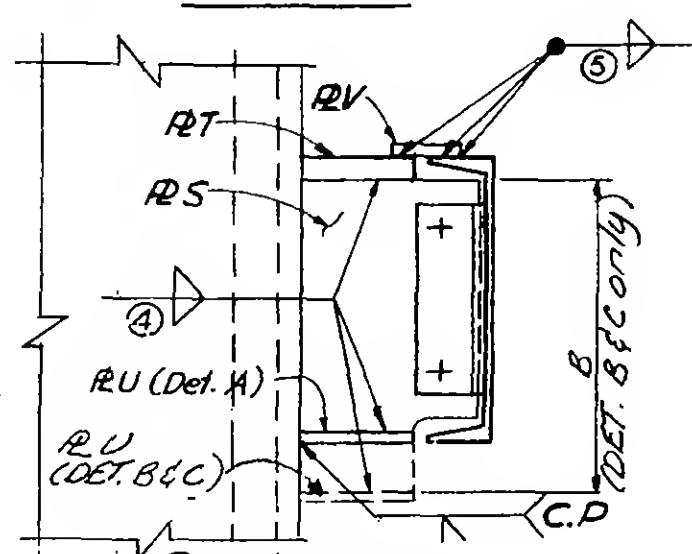


Note: see framing plans for location of beam

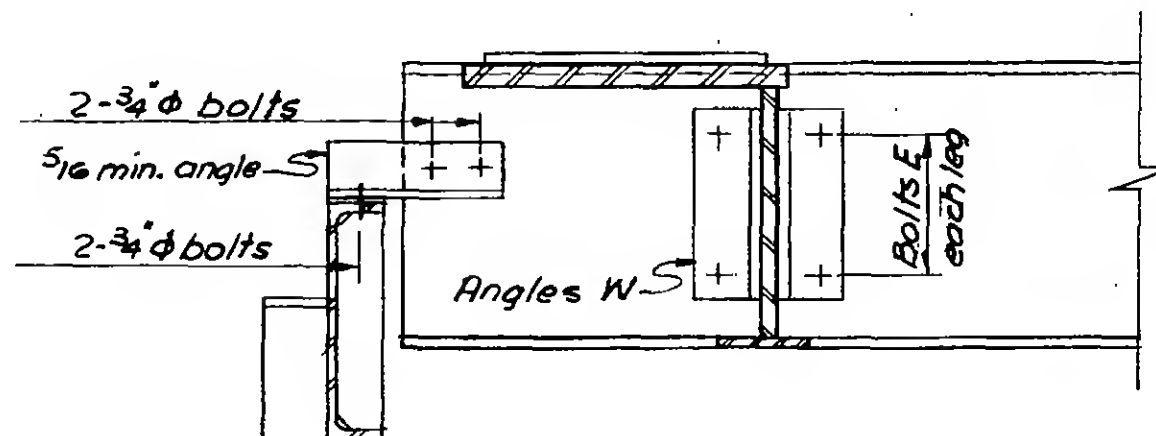


Section b-b

Plan



Section c-c



Section a-a



PROJECT THE WORLD TRADE CENTER

TITLE SCHEDULE FOR DETAIL 232 A, B & C

DATE 7-28-67

REVISIONS

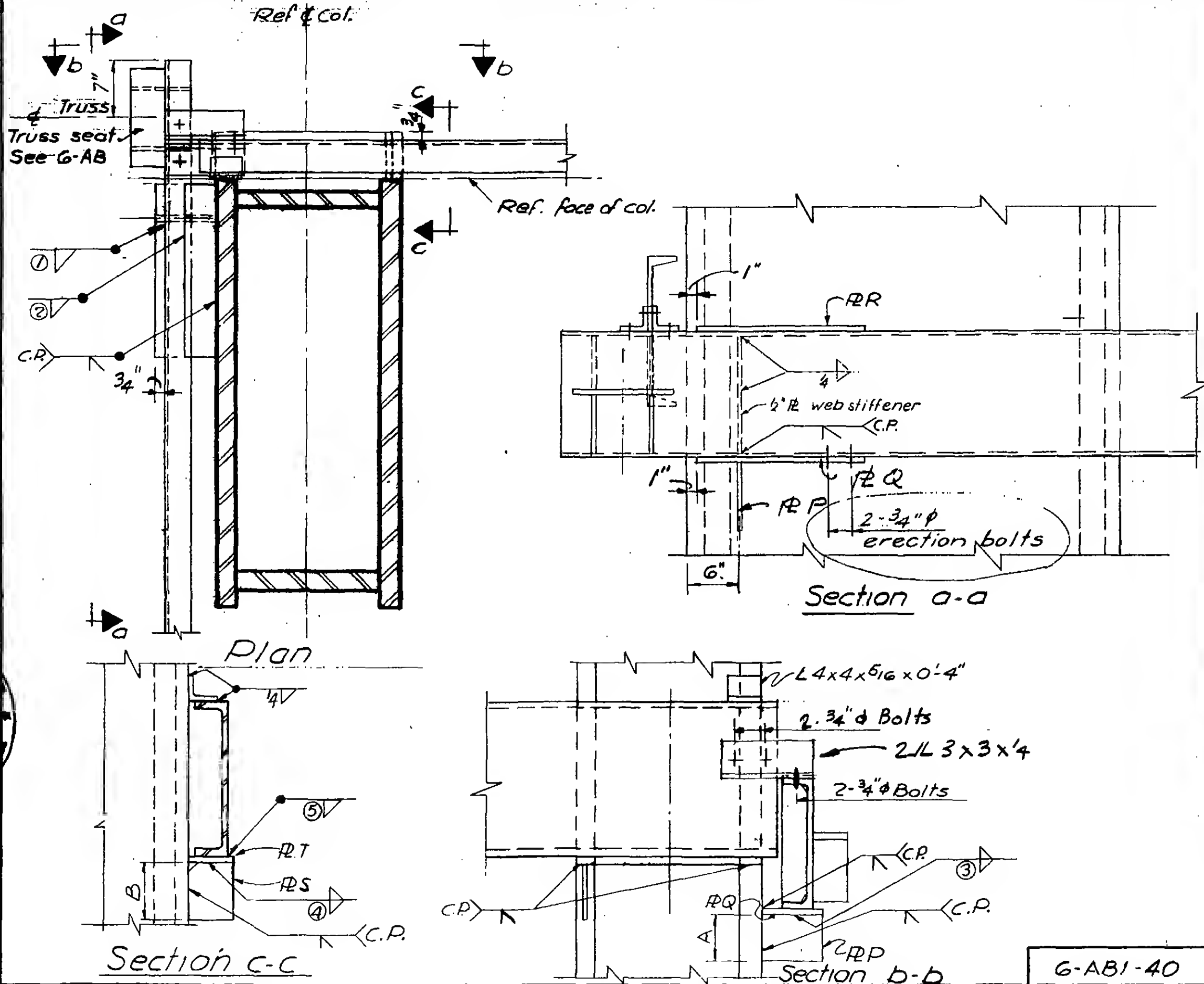
9-15-67

	232A	232B	232C			
PLATES						
P	7x1	7x1	7x1			
Q	7x1x2'-1"	7x1x2'-1"	7x1x2'-1"			
R	4 1/2 x 3/4 x 2'-1"	4 1/2 x 3/4 x 2'-1"	4 1/2 x 3/4 x 2'-1"			
S	1/2	1 3/8	1 3/8			
T	1/2	1/2	1/4			
U	5x3/4	5x3/4	5x3/4			
V	4x 1/2 x 1'-8"	4x3/4 x 1'-8"	4x3/4 x 1'-8"			
ANGLES						
W	4x3 1/2 x 7/16	4x3 1/2 x 3/8	4x3 1/2 x 3/8			
DIMENSIONS						
A	1'-3"	1'-3"	1'-3"			
B	—	1'-6"	1'-8"			
BOLTS						
E	4-1"φ	4-7/8"φ	4-7/8"φ			
WELDS						
①	1/2	1/2	1/2			
②	1/2	1/2	1/2			
③	5/8	5/8	5/8			
④	1/2	1/2	1/2			
⑤	1/2	1 1/16	5/8			



REVISIONS

7-28-67
11-17-67
12-7-67



WORTHINGTON, SKILLING, HELLE & JACKSON

Civil & Structural Engineers

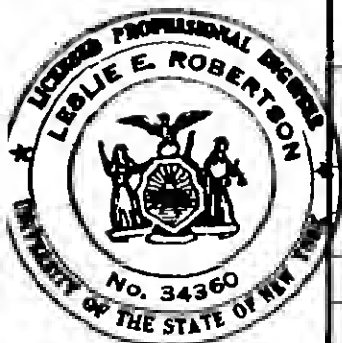
PROJECT THE WORLD TRADE CENTER

TITLE SCHEDULE FOR DETAIL 233

DATE 1/28/54

REVISIONS

	233 A					
PLATES						
P	1"					
Q	1" x 2'-1"					
R	4 1/2" x 3 3/4" x 2'-1"					
S	1"					
T	1"					
DIMENSIONS						
A	1'-3"					
B	0'-10"					
WELDS						
①	1/2					
②	1/2					
③	5/8					
④	7/16					
⑤	3/8					



6-ABI-40.1

WORTHINGTON, SKILLING, HELLE & JACKSON

Civil & Structural Engineers

PROJECT THE WORLD TRADE CENTER

TITLE

CONNECTION DETAIL 234 A&F J,K,L

DATE 6-12-67

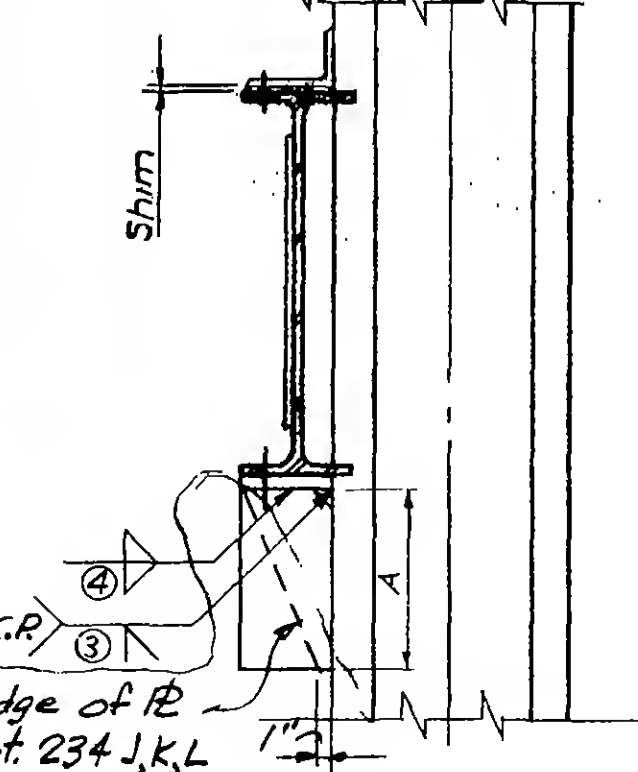
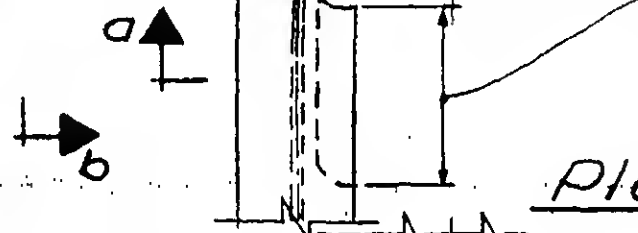
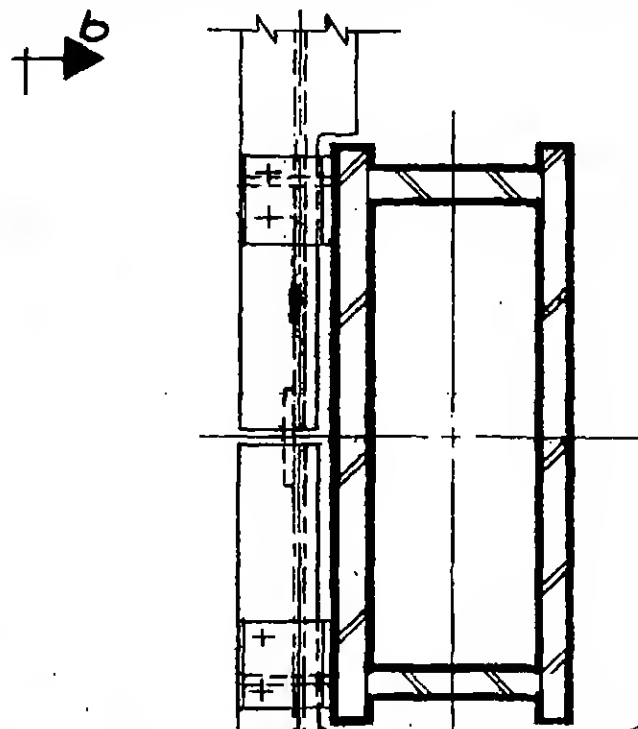
REVISIONS

6-19-67

7-28-67

2-9-68

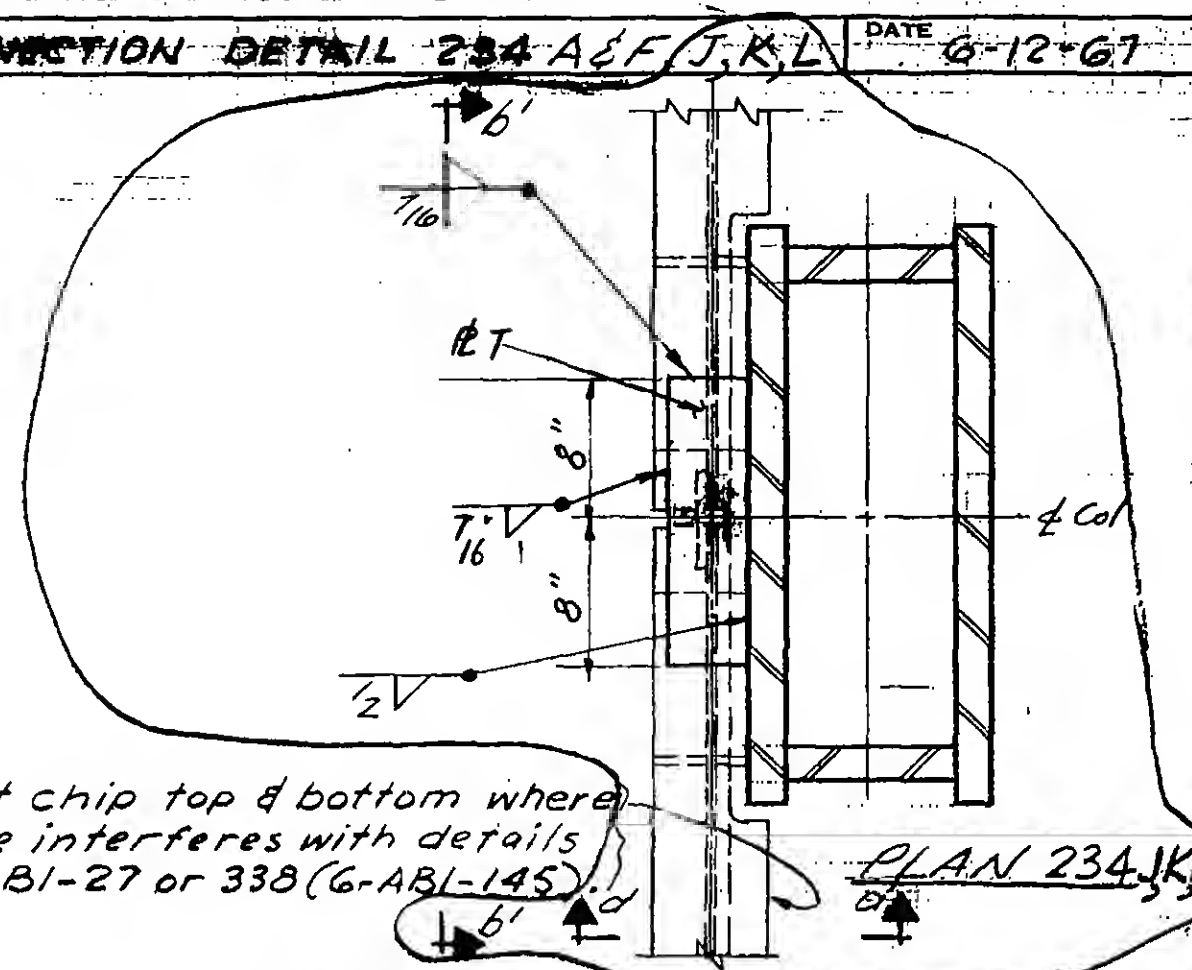
9-18-68



Edge of R
Det. 234 J,K,L

Section a-a

Section a'-a' similar



Cut - not chip top & bottom where
flange interferes with details
220 (6-ABI-27 or 338 (6-ABI-145))

Plan A&F

Bolts M

Bolts M

angle S

angle S

Bolts K 2 1/2" c-c

Bolts L 3" c-c 2 1/2"

RQ

RQ

RP

RP

C.P.

C.P.

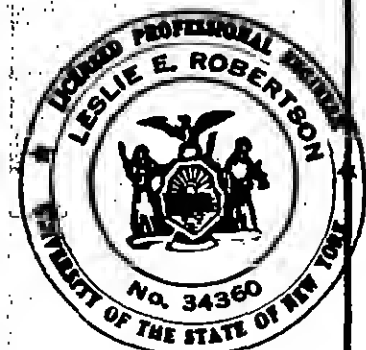
4 1/2"

4 1/2"

Section b-b

Section b'-b' similar

6-ABI-41



SKILLING - HELLE - CHRISTIANSEN - ROBERTSON

Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER

TITLE SCHEDULE FOR DETAIL 234 A, F & G, T, K, L

DATE 7-28-67

REVISIONS

2-9-68

9-18-68

	234 A	234 F	234 G	234 J	234 K	234 L
PLATES						
P	$\frac{7}{8}$ "	$\frac{7}{8}$ "	$\frac{7}{8}$ "	$\frac{7}{8}$ "	1"	1"
Q	1"	1"	1"	1"	$1\frac{1}{4}$ "	$1\frac{1}{4}$ "
R	4" x $\frac{3}{8}$ " x 1'-0"	4" x $\frac{3}{8}$ " x 1'-0"	4" x $\frac{3}{8}$ " x 1'-0"	4" x $\frac{3}{8}$ " x 1'-0"	4" x $\frac{3}{8}$ " x 1'-0"	4" x $\frac{3}{8}$ " x 1'-0"
<u>T</u>	—	—	—	$\frac{1}{2}$ "	$\frac{1}{2}$ "	$\frac{1}{2}$ "
DIMENSIONS						
A	0'-10"	1'-1"	1'-2"	1'-1"		
ANGLES						
S	6 x 4 x $\frac{5}{16}$	6 x 4 x $\frac{5}{16}$	—	—		
BOLTS						
K	4 - $\frac{1}{8}$ " ϕ	4 - $\frac{1}{8}$ " ϕ	4 - $\frac{1}{8}$ " ϕ	4 - $\frac{1}{8}$ " ϕ	4 - $\frac{1}{8}$ " ϕ	6 - $\frac{1}{8}$ " ϕ (Brq.)
L	4 - $\frac{1}{8}$ " ϕ	4 - $\frac{1}{8}$ " ϕ	4 - $\frac{1}{8}$ " ϕ	4 - $\frac{1}{8}$ " ϕ	4 - $\frac{1}{8}$ " ϕ	6 - $\frac{1}{8}$ " ϕ (Brq.)
M	2 - $\frac{3}{4}$ " ϕ	2 - $\frac{3}{4}$ " ϕ	—	2 - $\frac{3}{4}$ " ϕ		
WELDS						
①	$\frac{1}{4}$	$\frac{1}{4}$	—	—	—	—
②	C.P.	C.P.	C.P.	C.P.	C.P.	C.P.
③	C.P.	C.P.	C.P.	C.P.	C.P.	C.P.
④	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{1}{2}$
⑤	$\frac{5}{16}$	$\frac{5}{16}$	$\frac{5}{16}$	$\frac{5}{16}$	$\frac{5}{16}$	$\frac{5}{16}$



PROJECT

THE WORLD TRADE CENTER

TITLE

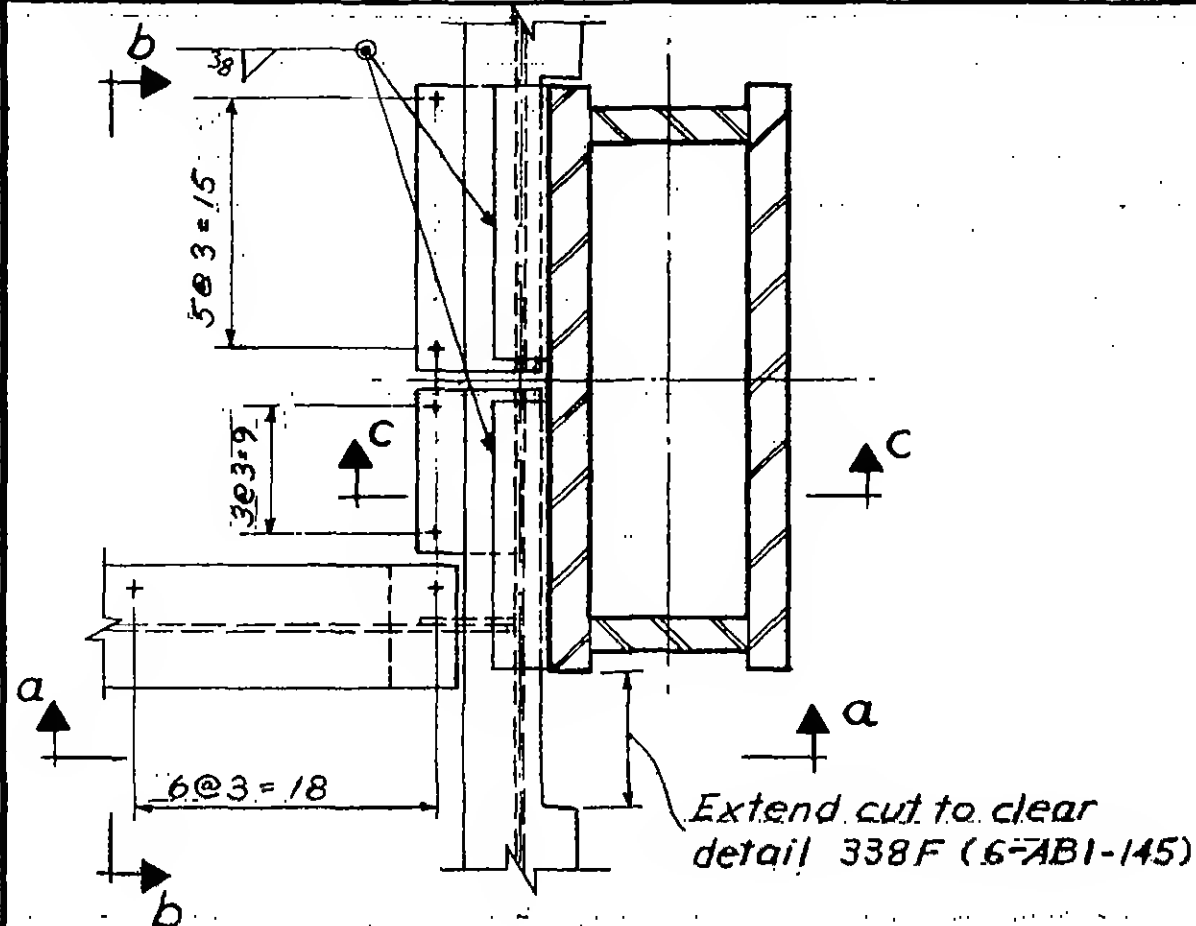
CONNECTION DETAIL 234 B&E

DATE

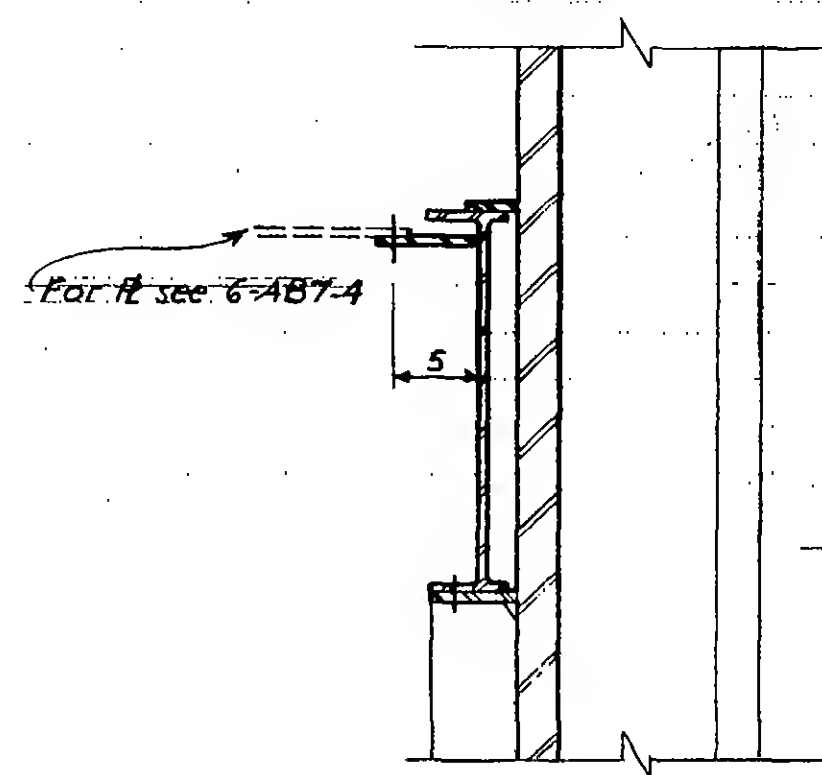
8-17-67

REVISIONS

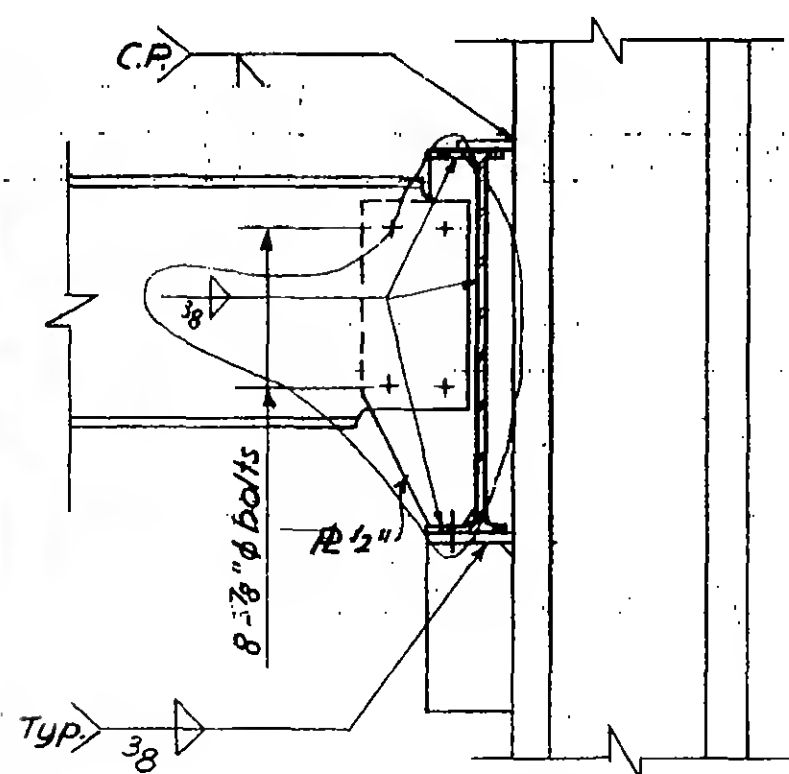
2-9-68



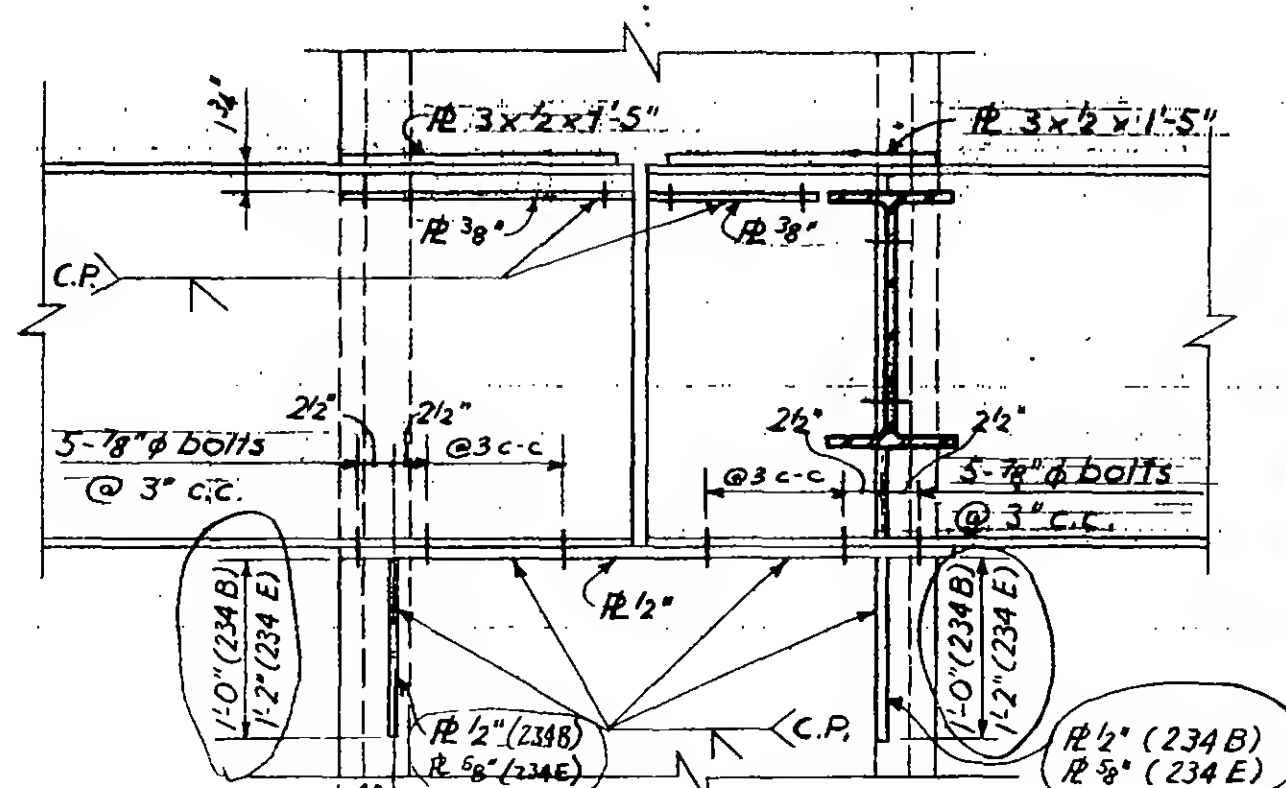
Plan



Section c-c



Section a-a



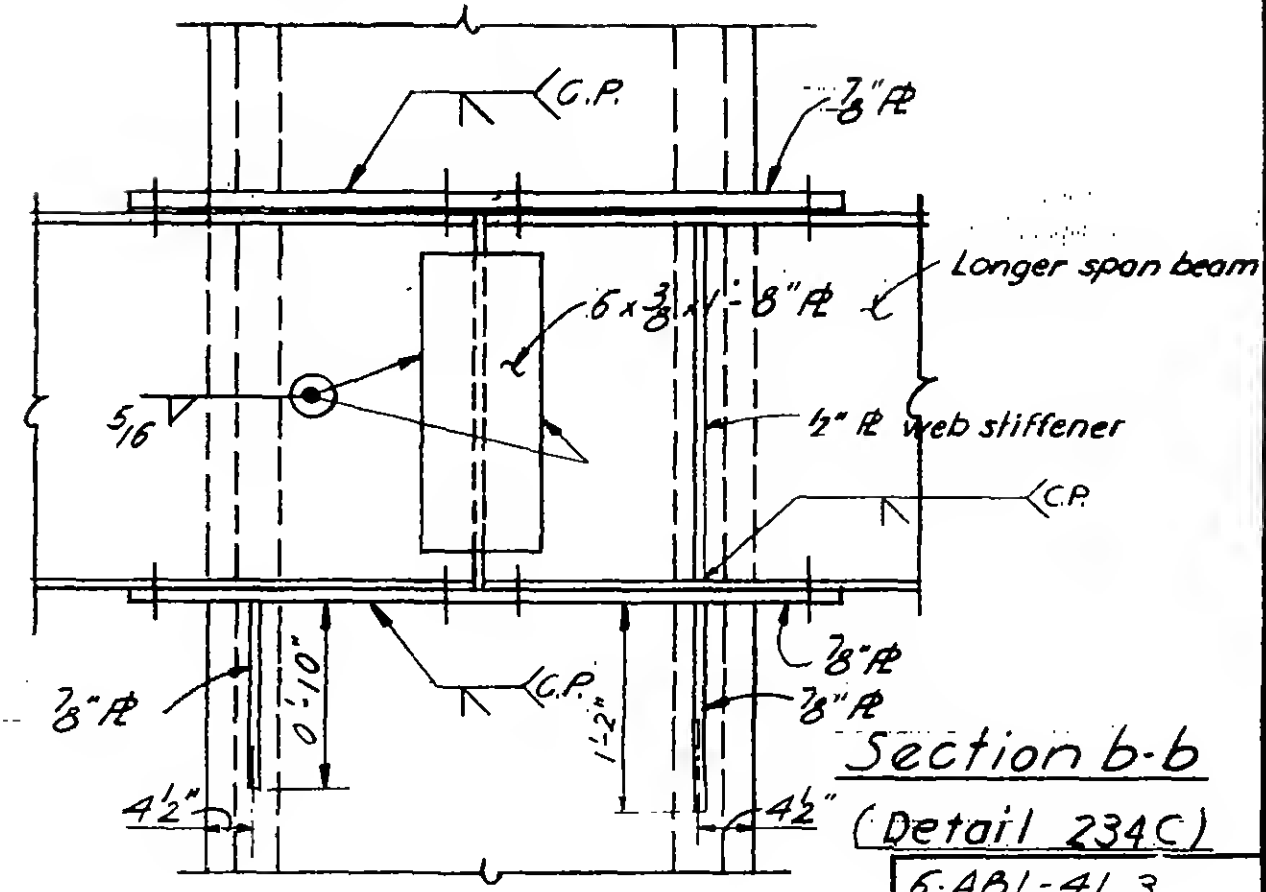
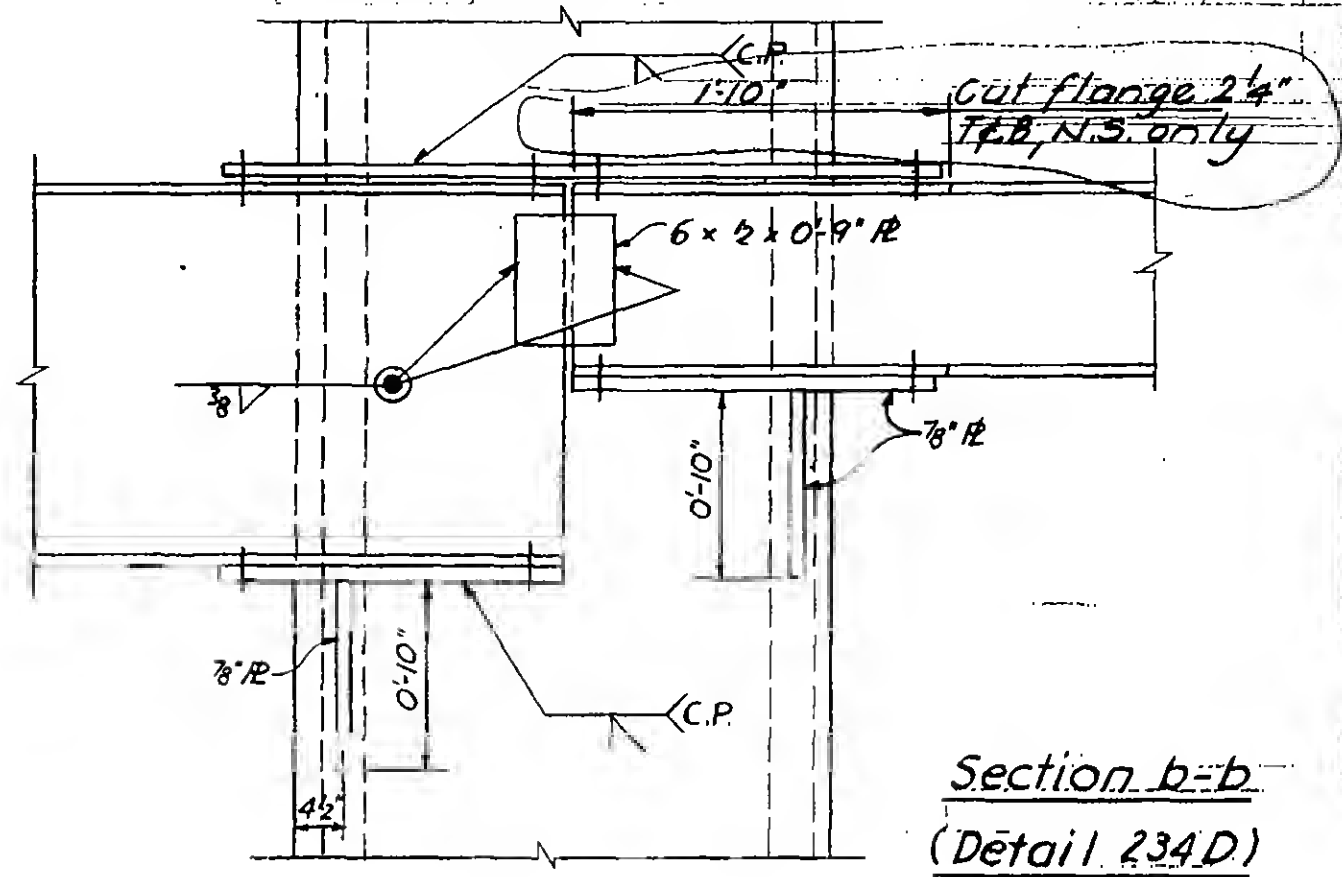
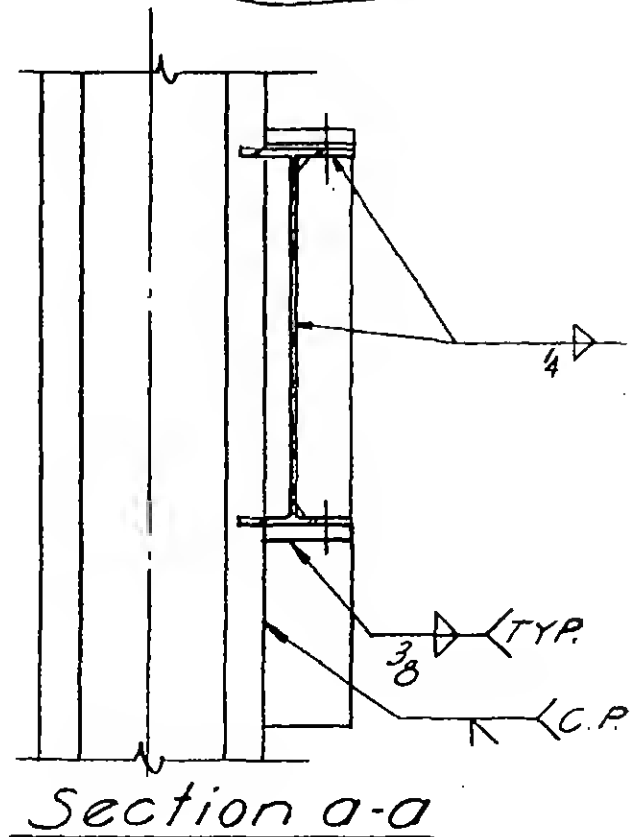
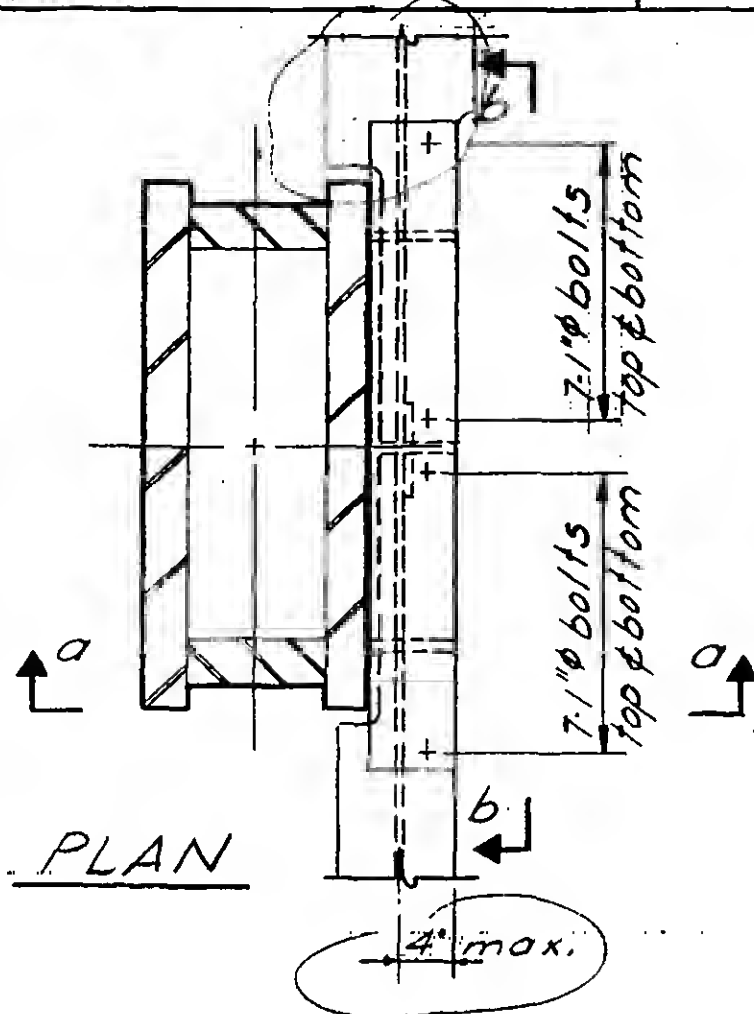
Section b-b

6-ABI-41.2



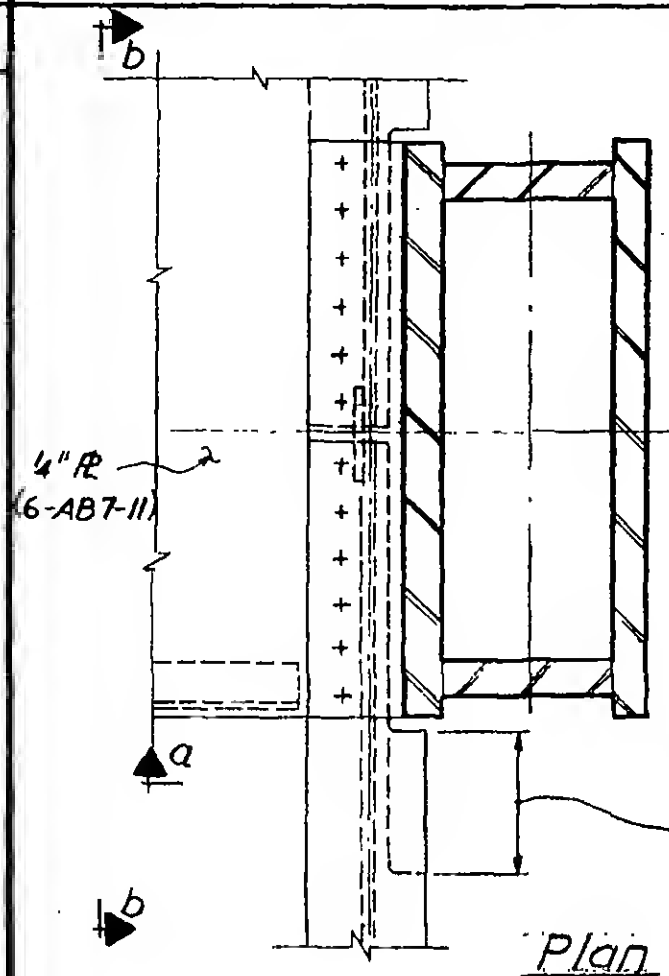
REVISIONS

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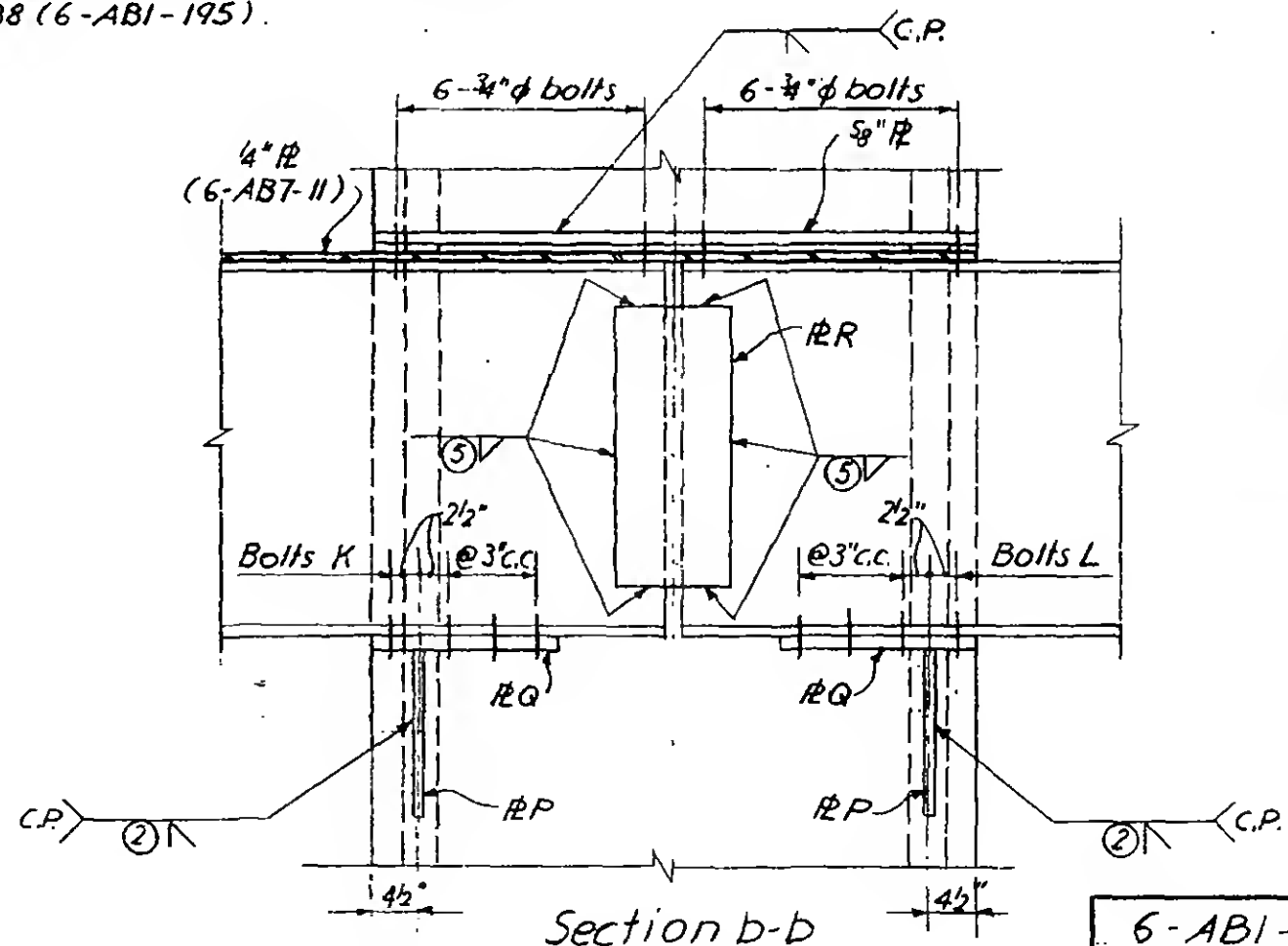
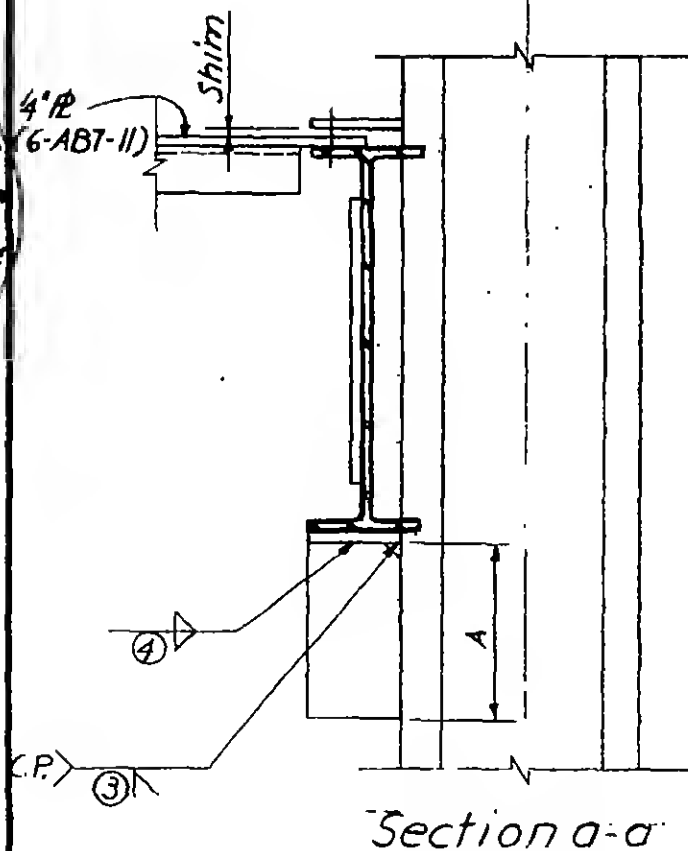


PROJECT THE WORLD TRADE CENTER TITLE CONNECTION DETAIL 234.6DATE 2-9-68

REVISIONS



q
Cut not chip top & bottom where flange interferes with details 220 (6-ABI-27) or det. 338 (6-ABI-195).

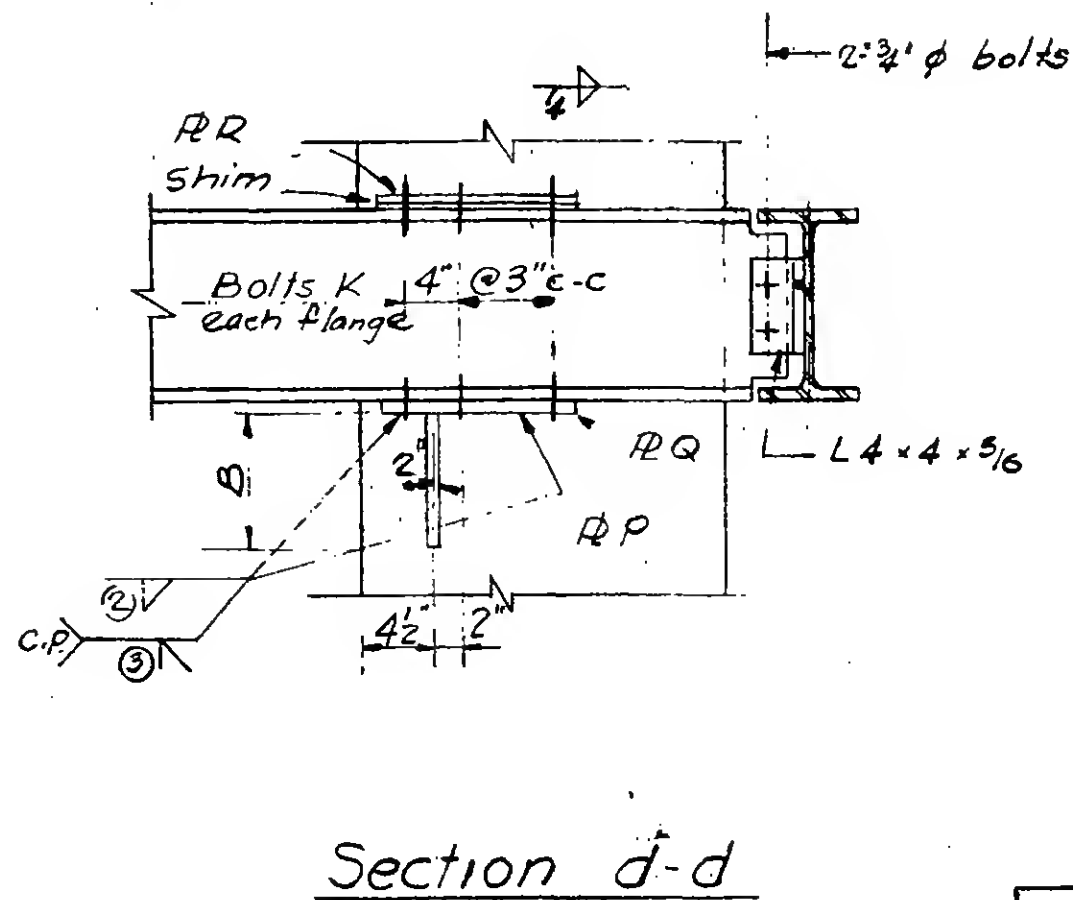
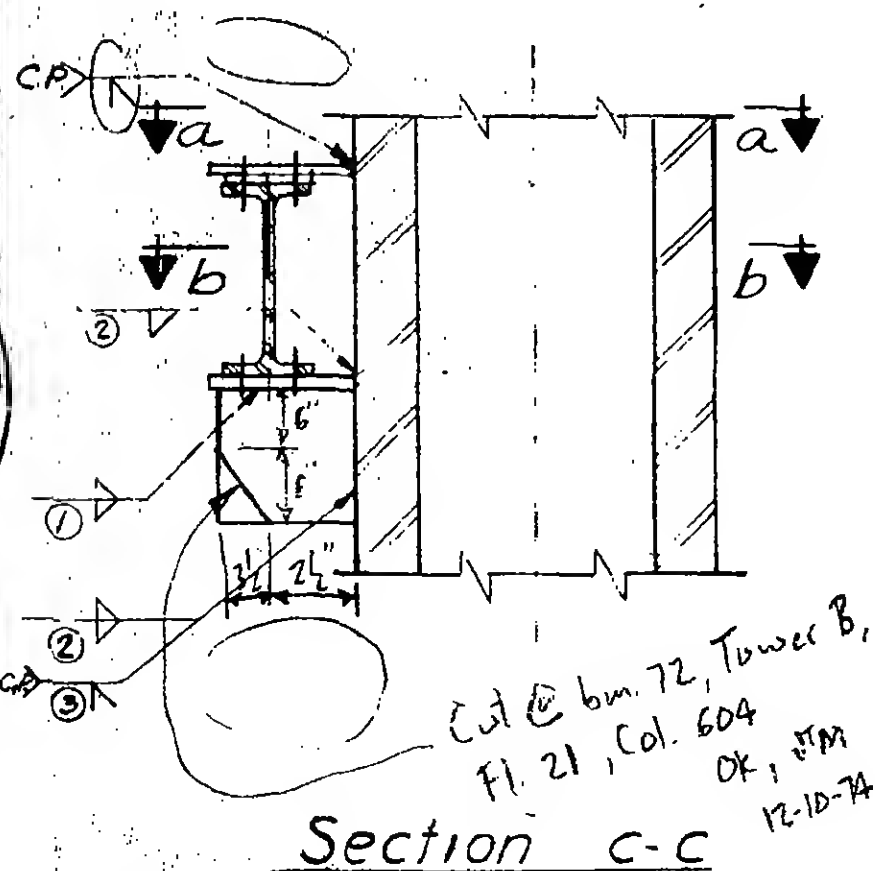
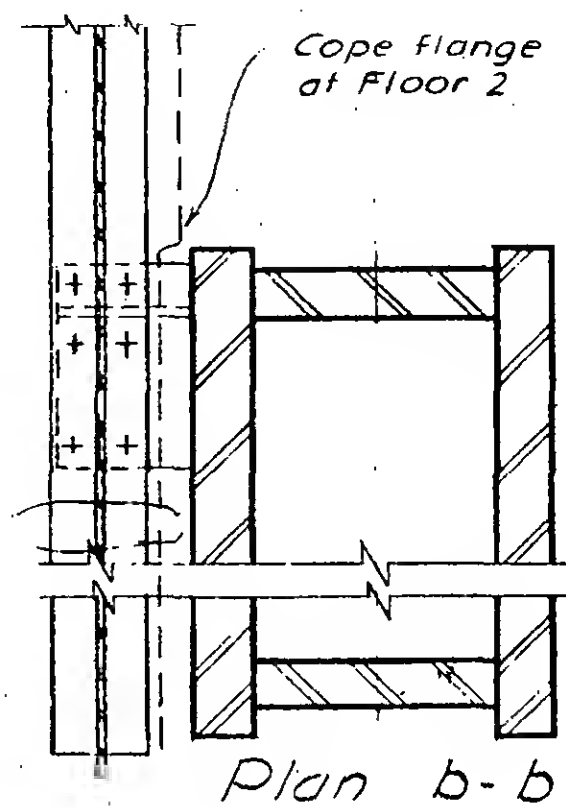
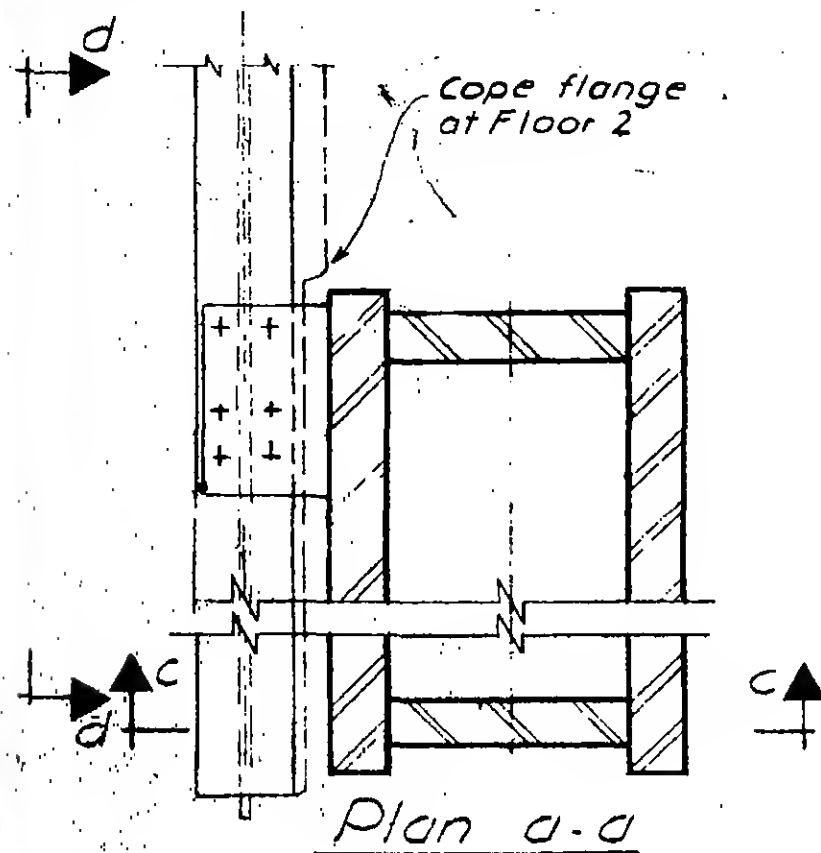


6-ABI-41.4



REVISIONS

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28-67
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21-67



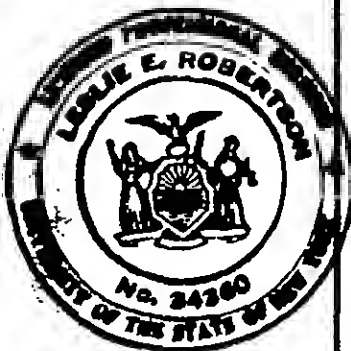
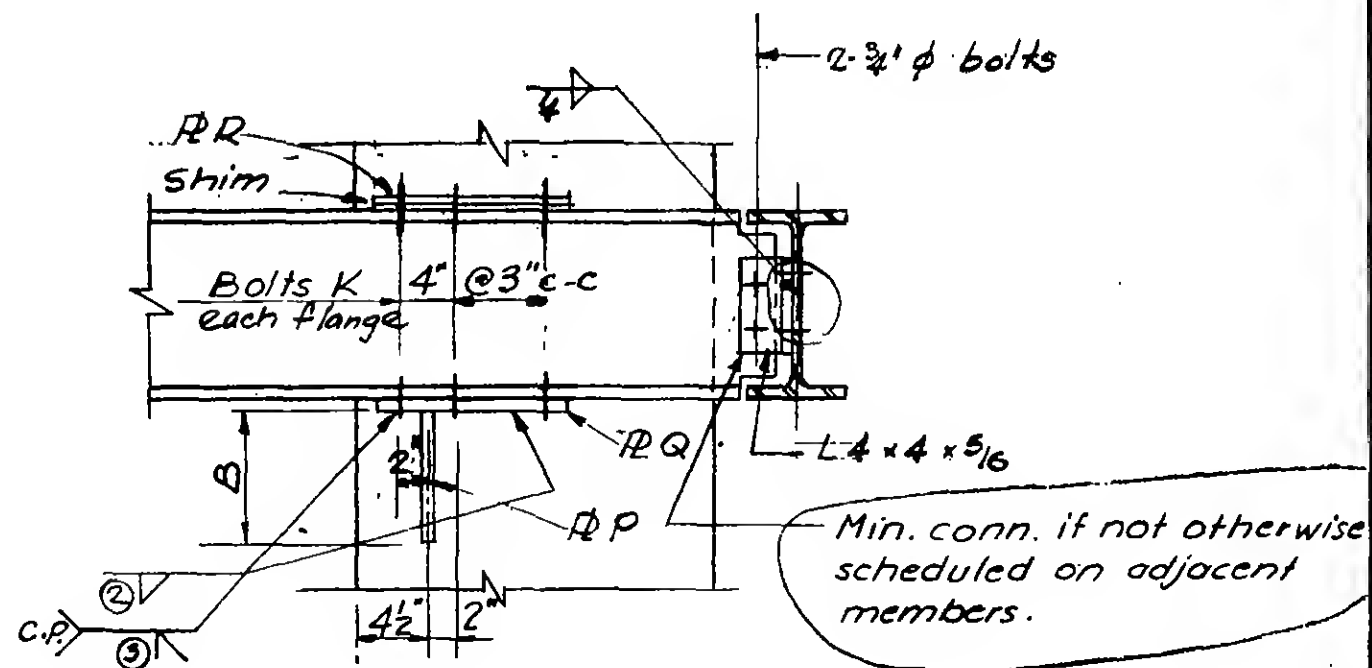
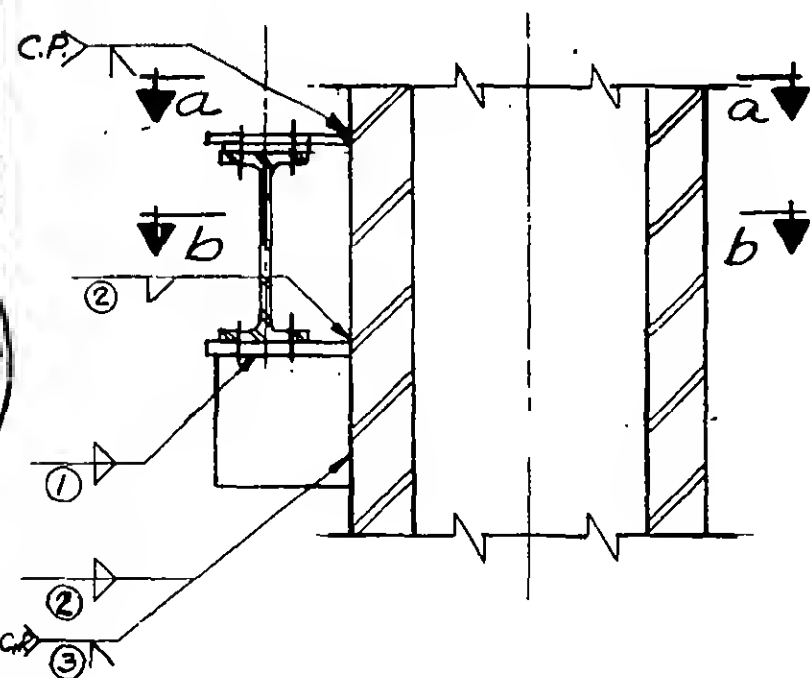
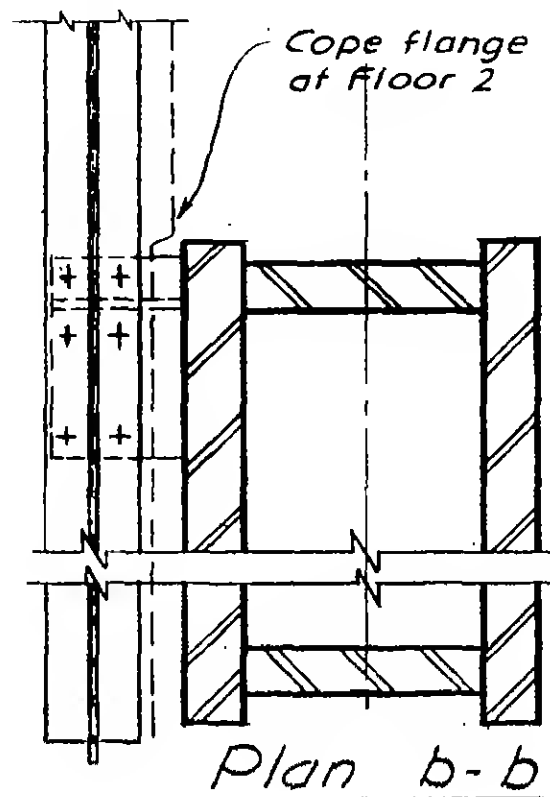
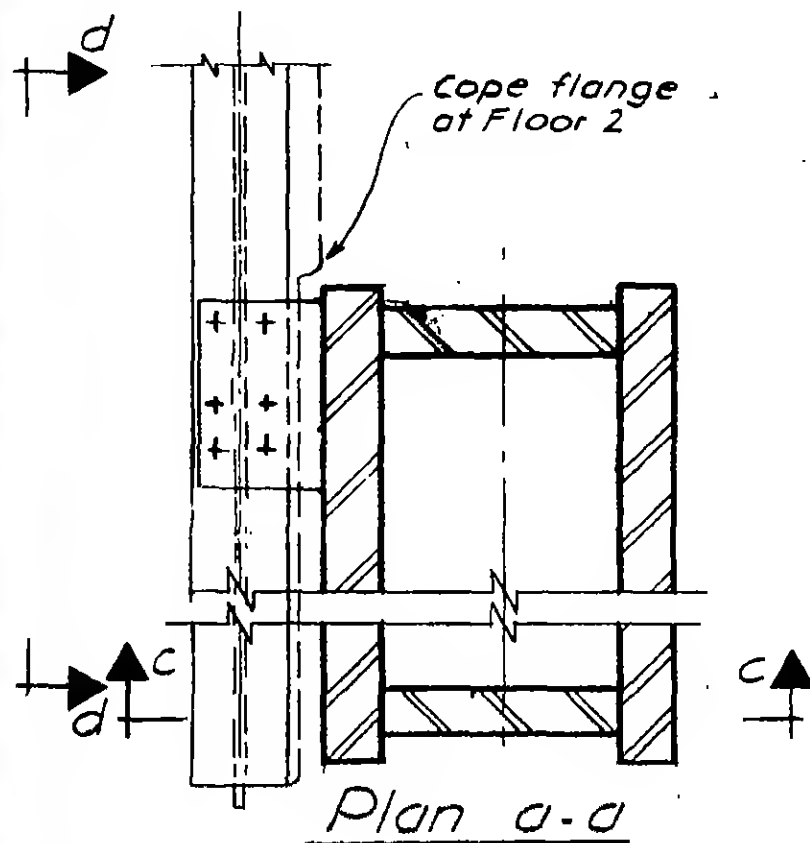
REVISIONS

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7-28-67

9-29-67

12-21-67



Section c-c

Section d-d

Structural & Civil Engineers

PROJECT

THE WORLD TRADE CENTER

TITLE

SCHEDULE FOR DETAIL 235 A-F

DATE

6-30-67

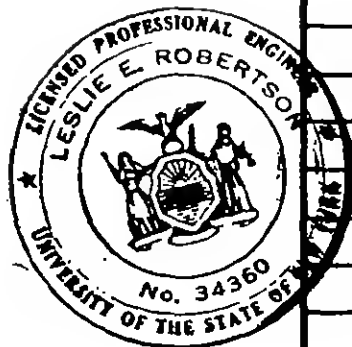
REVISIONS

7-28-67

12-21-67

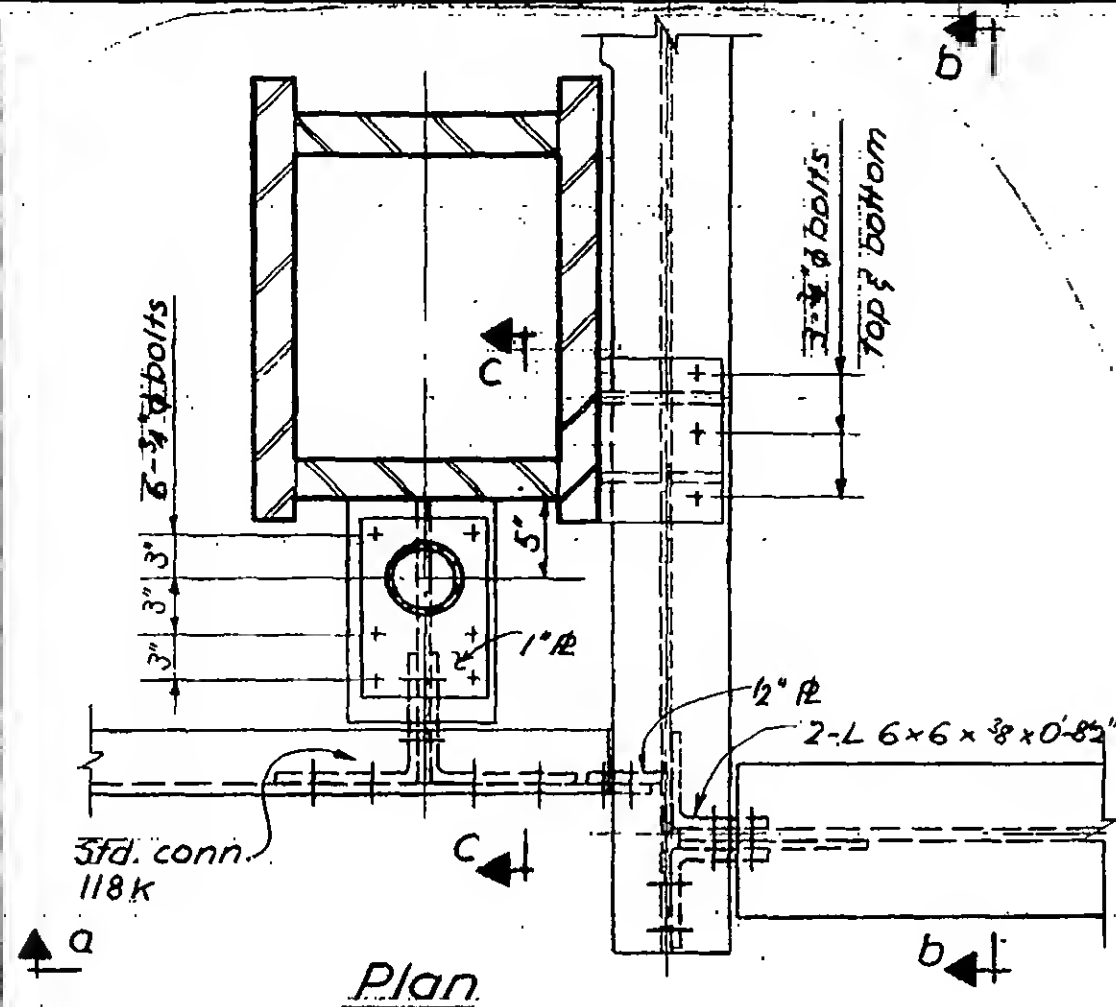
	235 A	235 B	235 C	235 D	235 E	235 F
PLATES						
P	○ 3/8"	○ 7/16"	○ 1/2"	○ 1/2"	○ 5/8"	5/8"
Q	3/8"	7/16"	5/8"	1/2"	3/4"	5/8"
R	3/8"	7/16"	5/8"	1/2"	3/4"	5/8"
DIMENSIONS						
B	1'-0"	1'-2"	1'-0"	1'-0"	1'-2"	1'-4"
BOLTS						
K	6 - 3/4" φ ()	6 - 3/4" φ ()	6 - 3/4" φ ()	6 - 3/4" φ ()	10 - 7/8" φ ()	6 - 3/4" φ
WELDS						
(1)	4	4	5/16	5/16	3/8	3/8
(2)	3/8	7/16	—	—	—	—
(3)	—	—	C.P.	C.P.	C.P.	C.P.

6-ABI-42.1

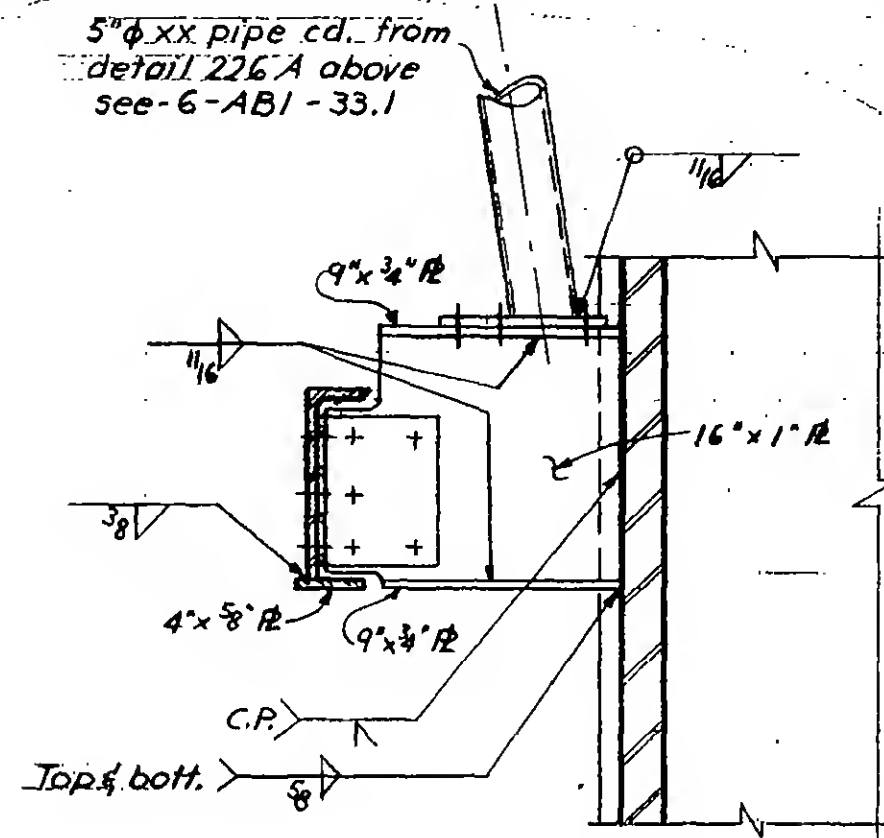


REVISIONS

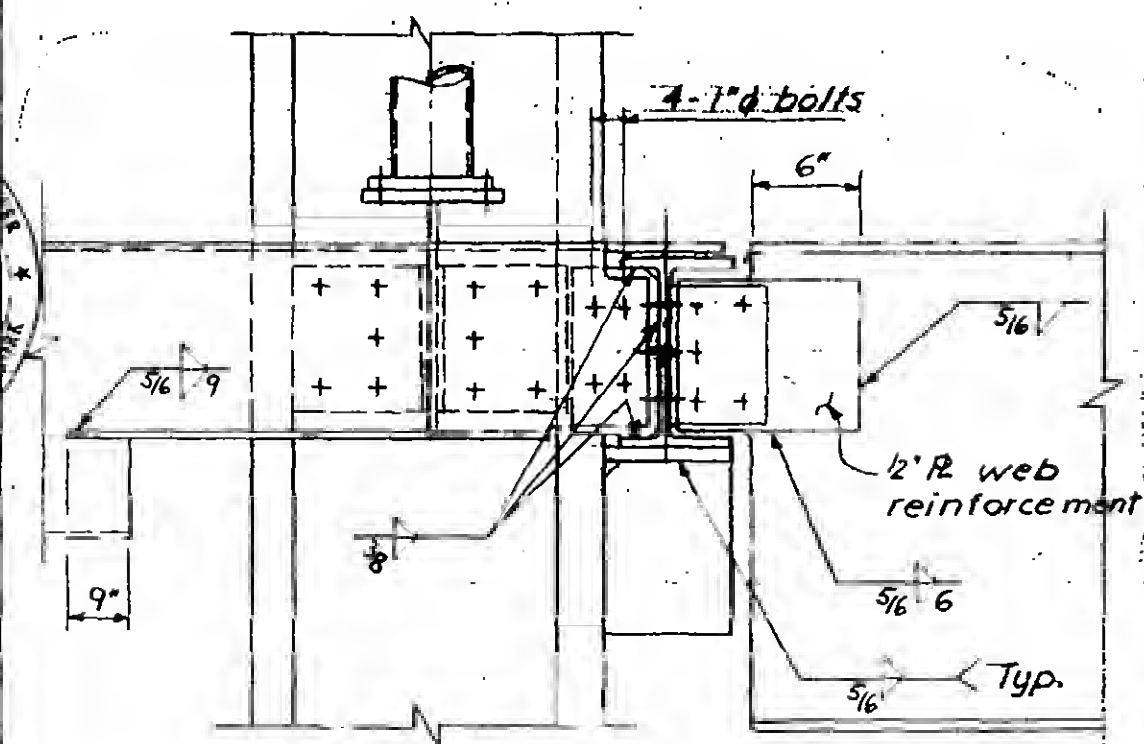
10-5-67



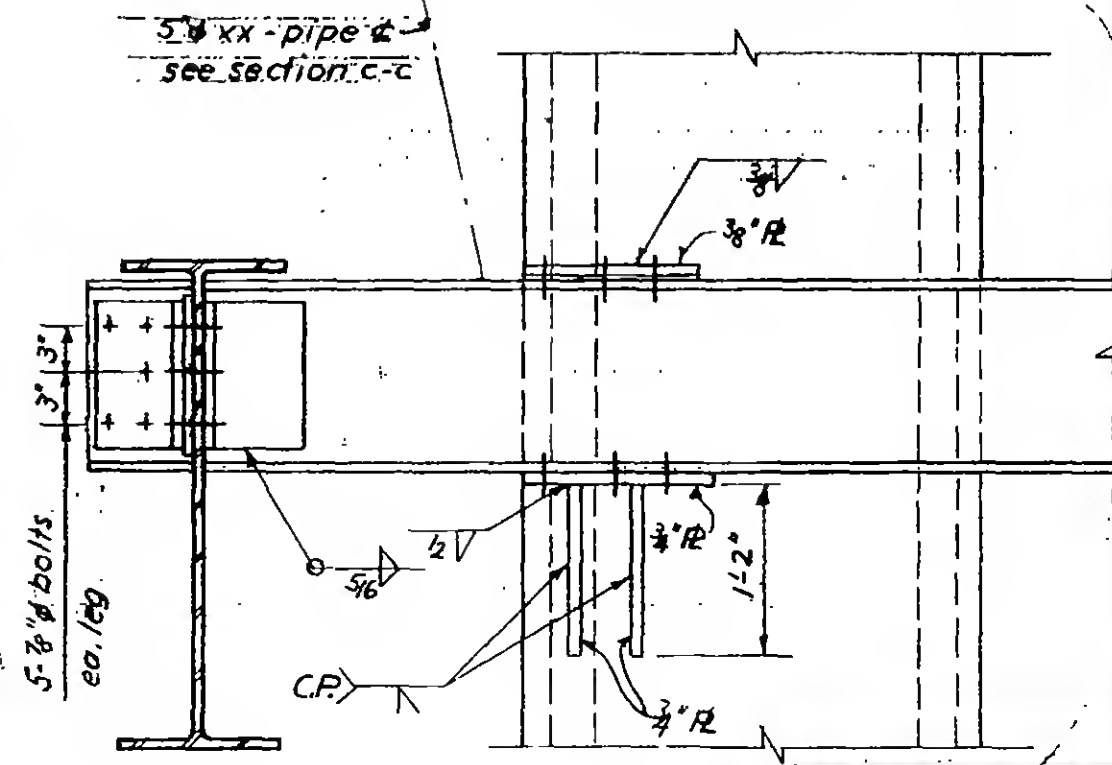
Plan



Section c-c



Section a-a



Section b-b



PROJECT

THE WORLD TRADE CENTER

TITLE

CONNECTION DETAIL

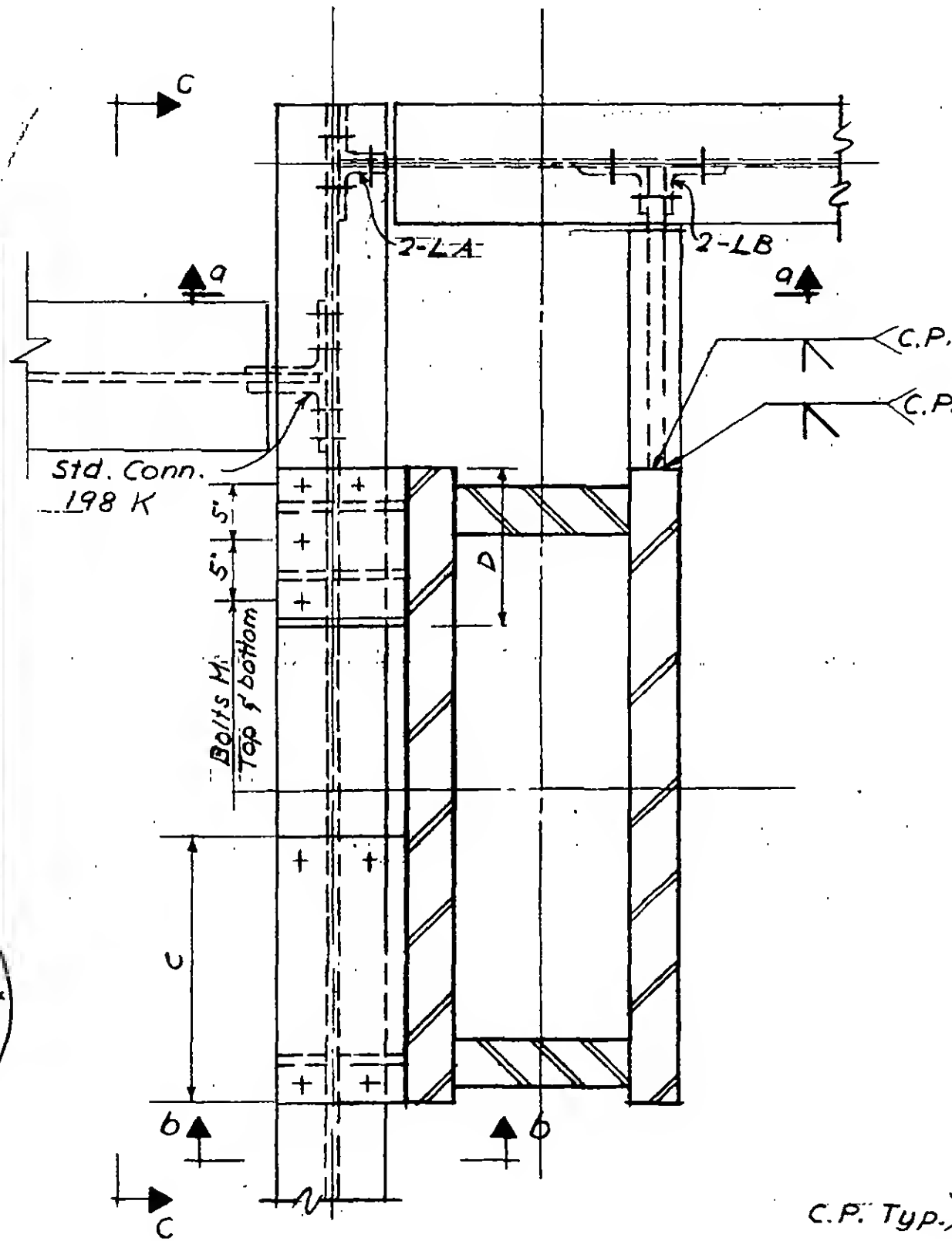
237A,B

DATE

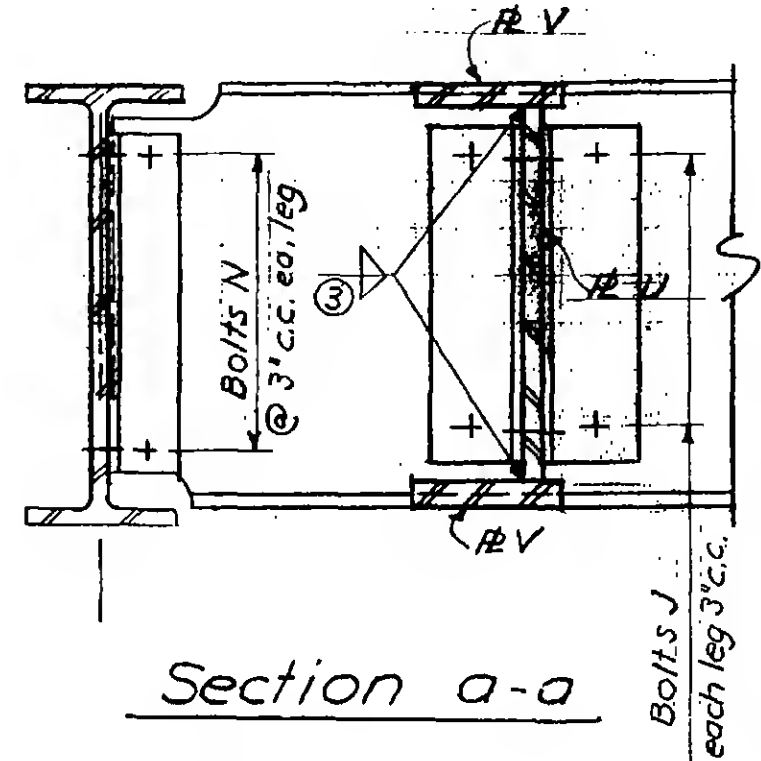
5-22-67

REVISIONS

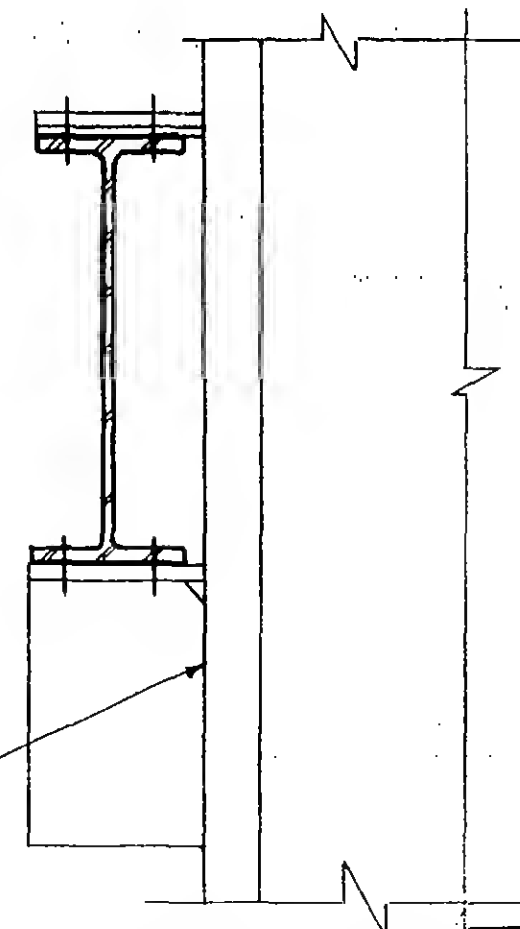
8-14-67



Plan

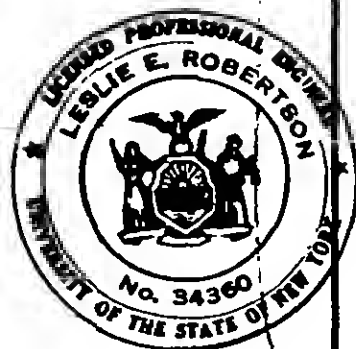


Section a-a

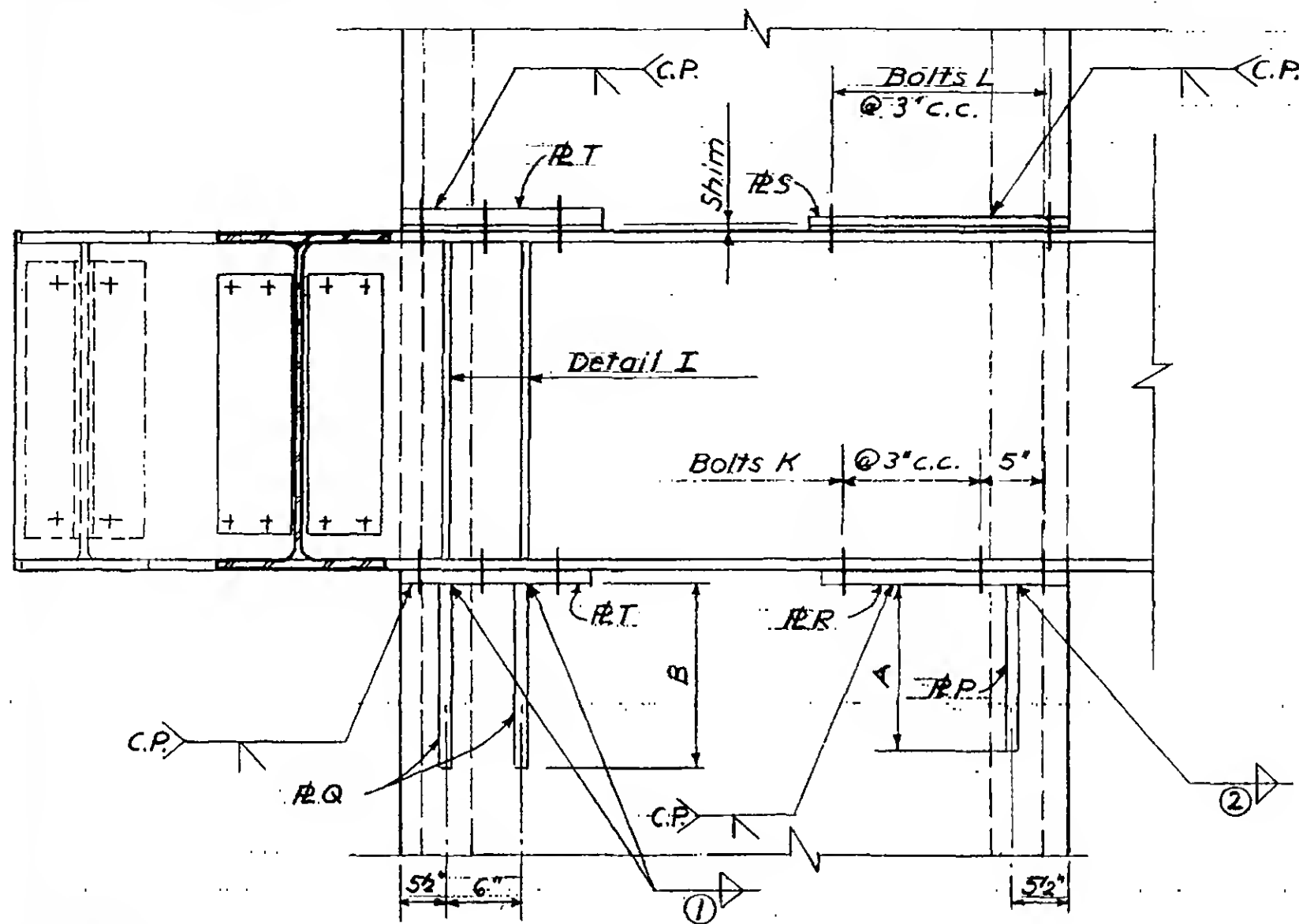


Section b-b

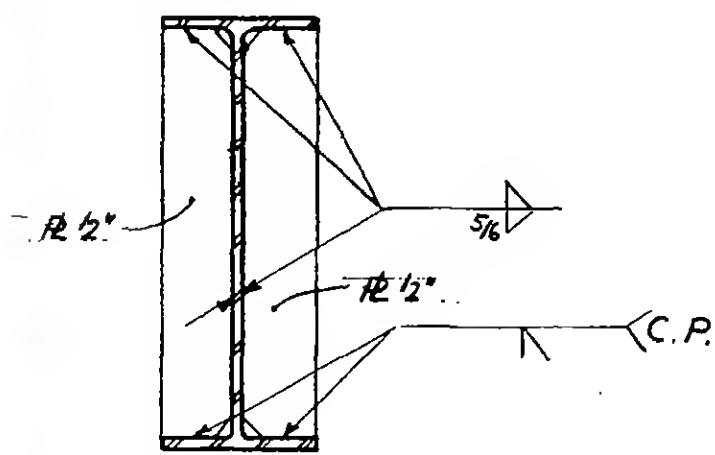
G-ABI-44



REVISIONS



Section c-c



Detail I



PROJECT THE WORLD TRADE CENTER

TITLE SCHEDULE FOR DETAIL 237 A, B, C, D, E, F

DATE 8-14-67

REVISIONS

10-2-67

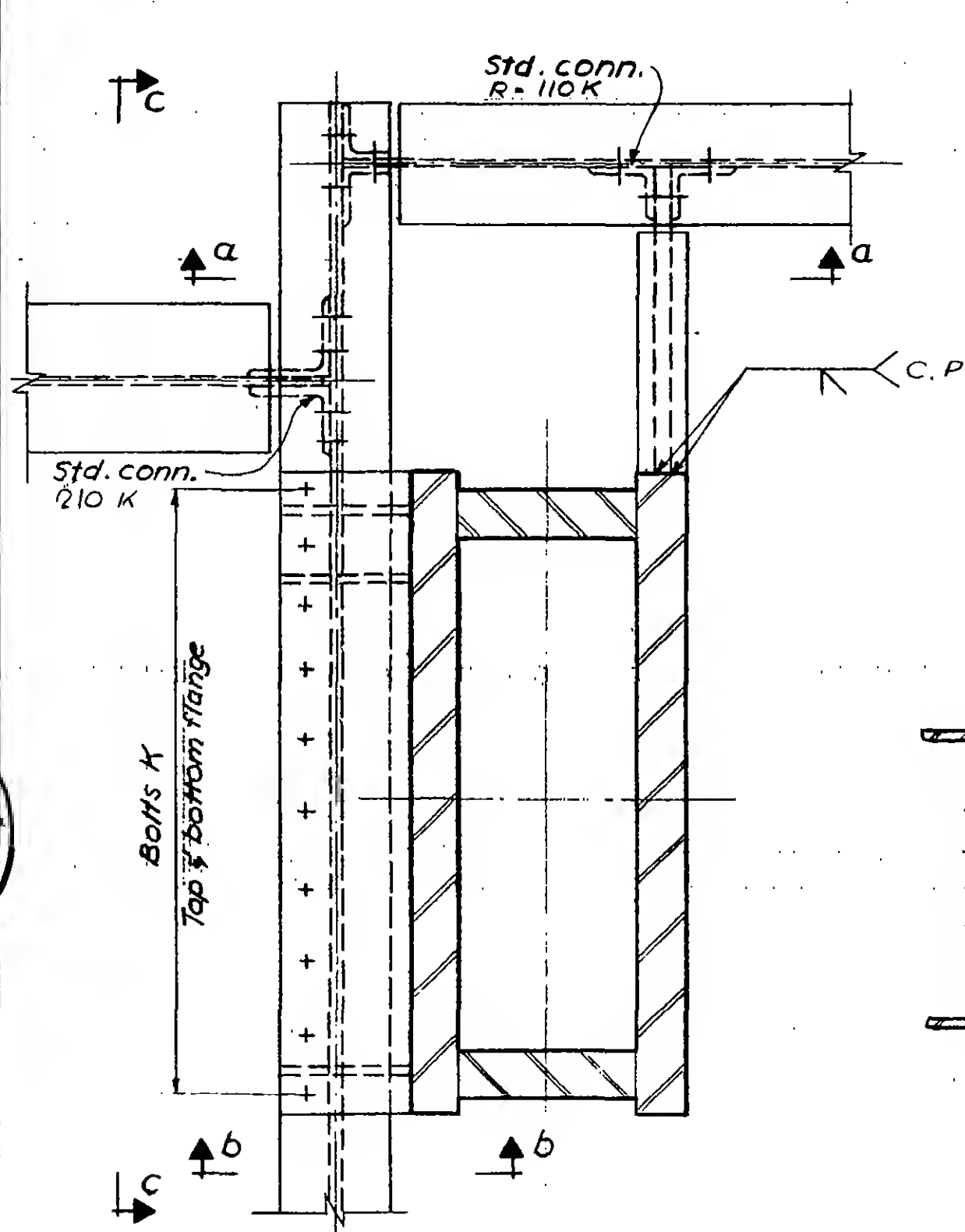
2-9-68

	237A	237B	237C & D	237E	237F
PLATES					
P	1"	1"	3/4"	1"	1"
Q	1"	1"	1"	1"	1"
R	1"	1"	—	1"	1"
S	1"	1"	3/4"	5/8"	5/8"
T	1"	1"	1"	—	—
U	1/2"	1/2"	3/4"	1/2"	1/2"
V	1"	1 1/2"	1/2"	1/2"	1"
DIMENSIONS					
A	1'-4"	1'-4"	1'-2"	1'-4"	1'-4"
B	1'-6"	1'-6"	1'-6"	1'-6"	1'-6"
C	1'-10"	1'-10"	—	—	—
D	1'-5"	1'-5"	—	—	—
ANGLES					
A	4 x 3 1/2 x 5/16 x 1'-8 1/2"	4 x 3 1/2 x 5/16 x 1'-8 1/2"	Standard	4 x 3 1/2 x 7/16 x 0'-11 1/2"	4 x 3 1/2 x 5/16 x 1'-8 1/2"
B	4 x 3 1/2 x 5/16 x 1'-8 1/2"	4 x 3 1/2 x 7/16 x 0'-11 1/2"	connections	4 x 3 1/2 x 7/16 x 0'-11 1/2"	4 x 3 1/2 x 5/16 x 1'-8 1/2"
BOLTS					
J	7 - 3/4" ϕ	4 - 1" ϕ	1"	4 - 1" ϕ	7 - 3/4" ϕ
K	10 - 1" ϕ	10 - 1" ϕ	10 - 18" ϕ A490	15 - 3/4" ϕ	15 - 3/4" ϕ
L	10 - 1" ϕ	10 - 1" ϕ	—	16 - 3/4" ϕ	16 - 3/4" ϕ
M	4 - 1" ϕ	4 - 1" ϕ	—	—	—
N	7 - 3/4" ϕ	7 - 3/4" ϕ	—	4 - 1" ϕ	7 - 3/4" ϕ
WELDS					
①	5/16	5/16	1/2	5/16	5/16
②	5/16	5/16	3/8	5/16	5/16
③	1/2	1/2	3/8	1/2	1/2

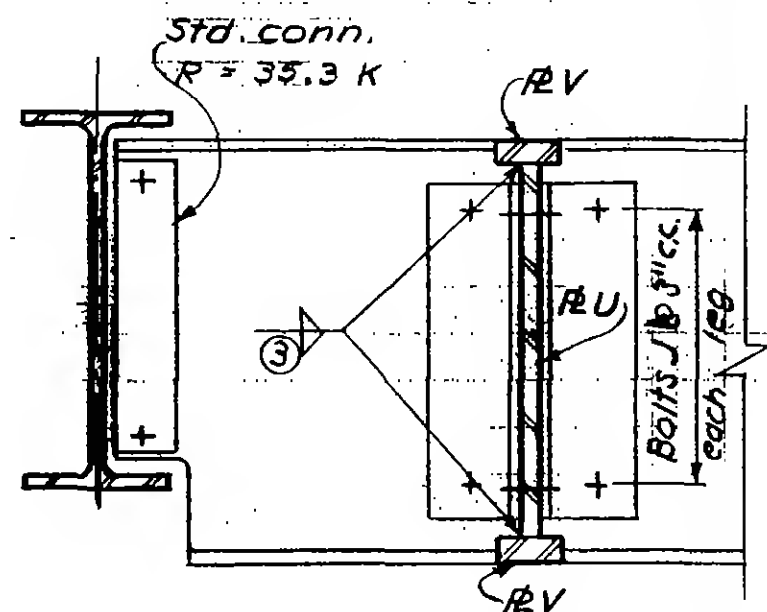
6-ABI-44.2



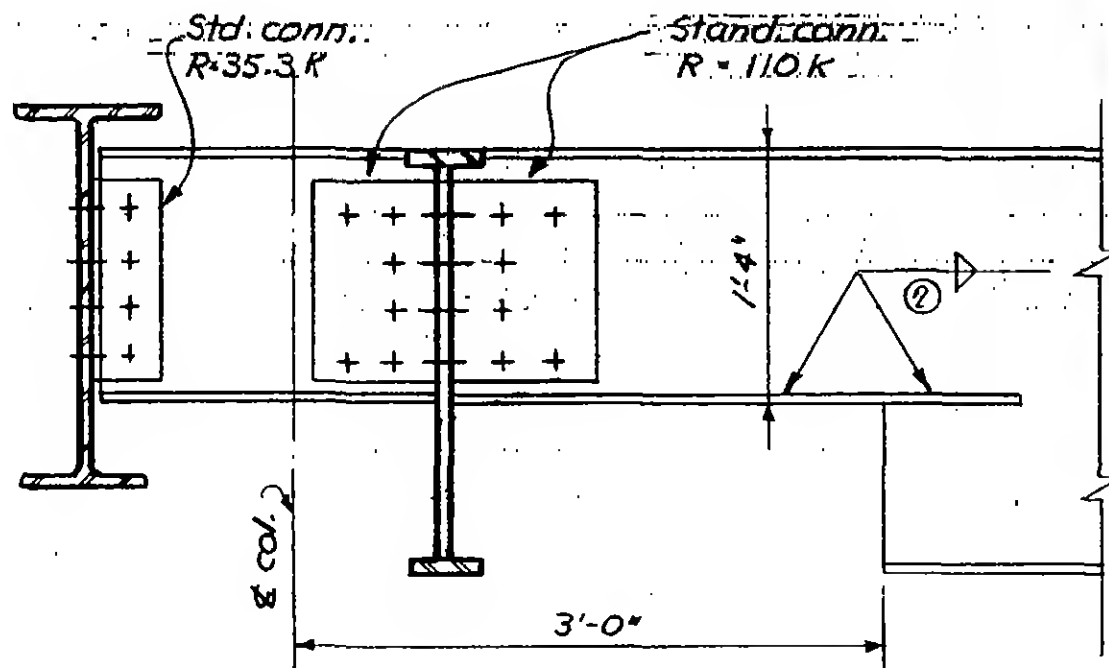
REVISIONS



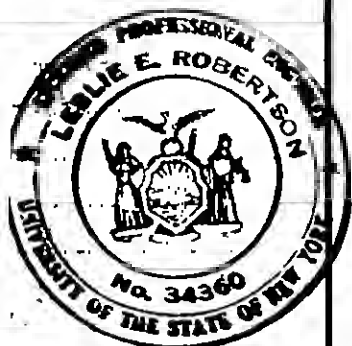
Plan



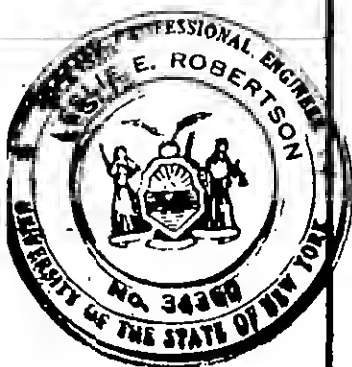
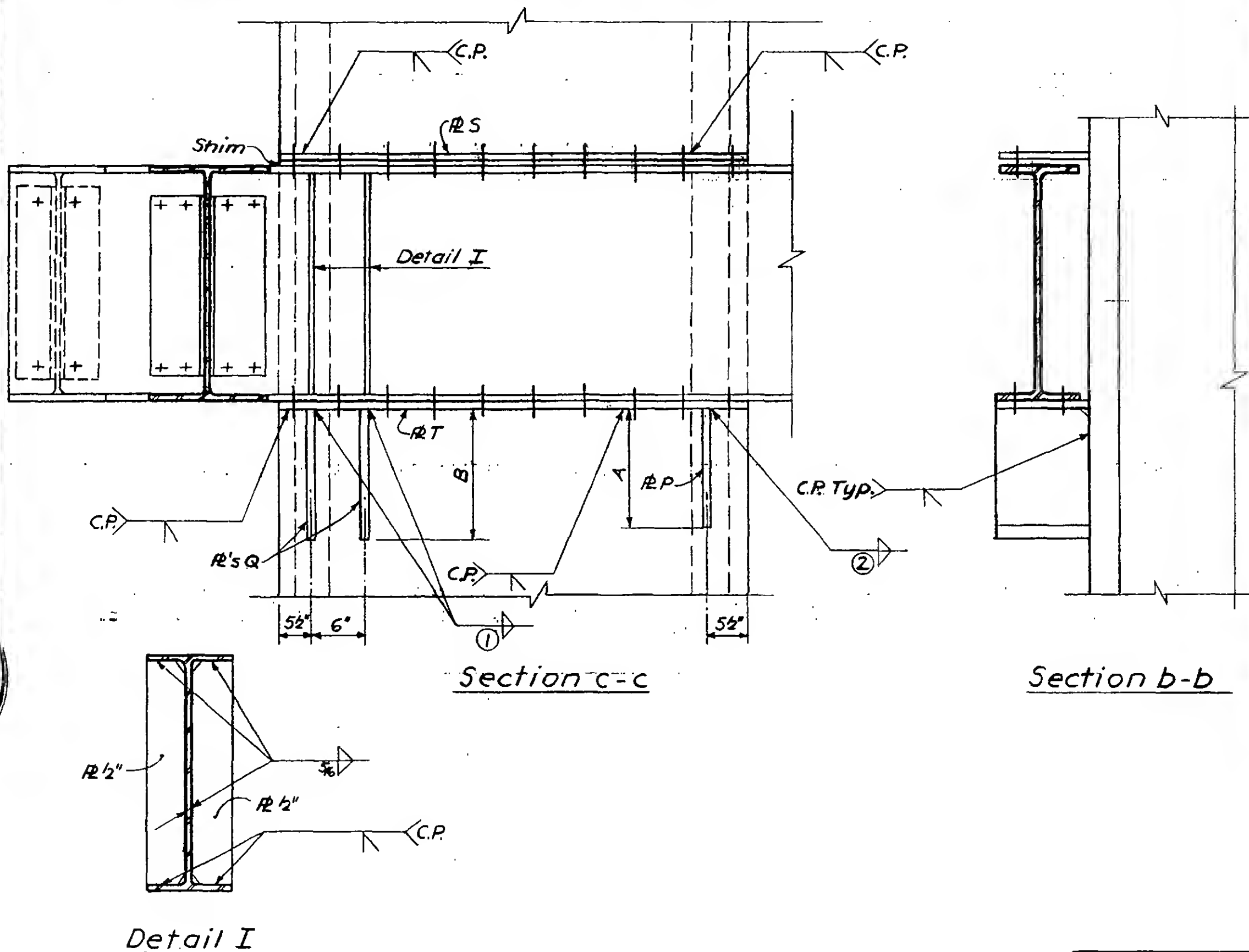
Section a-a
Detail 237 C only



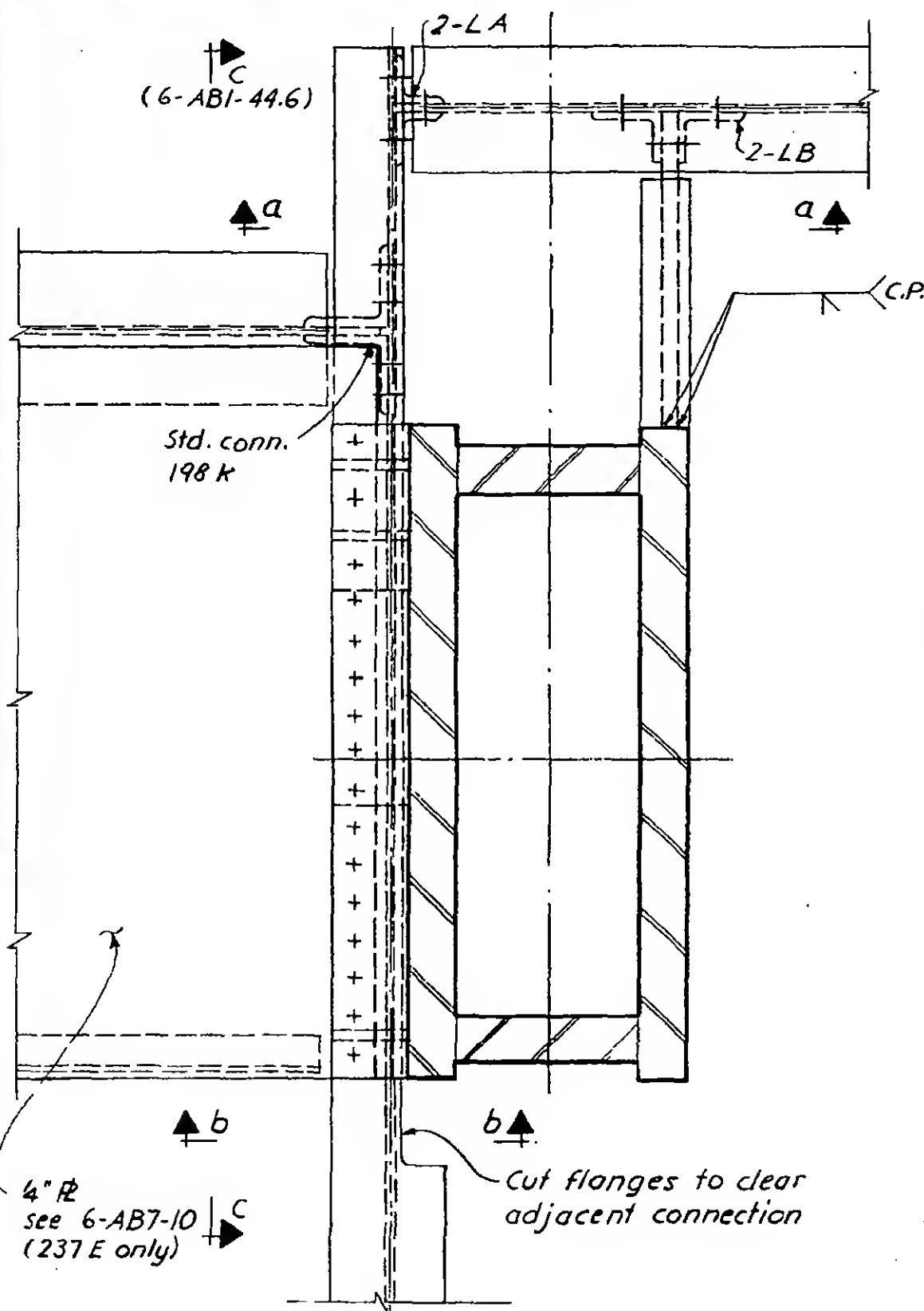
Section a-a
Detail 237 D only



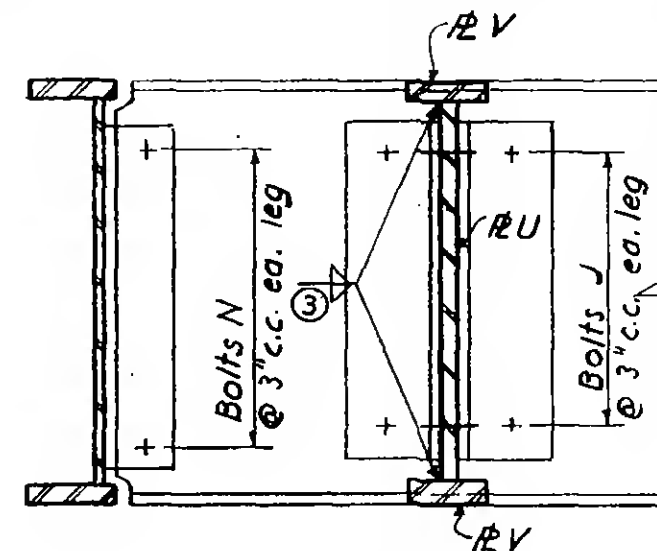
REVISIONS



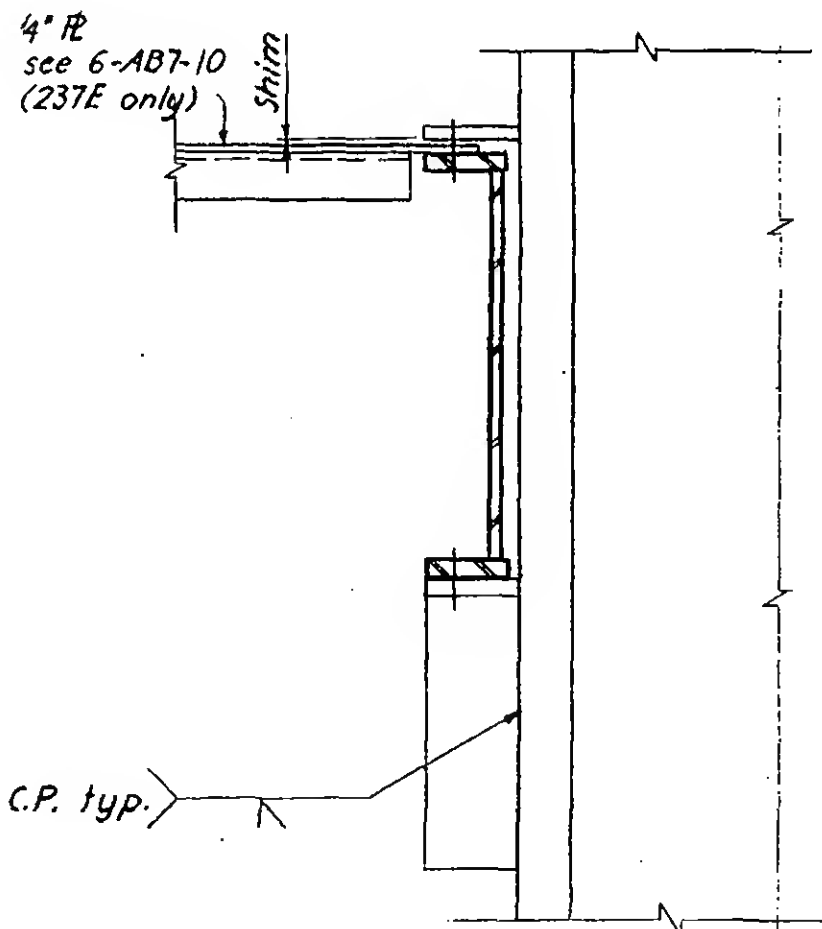
REVISIONS



Plan



Section a-a



Section b-b



PROJECT

THE WORLD TRADE CENTER

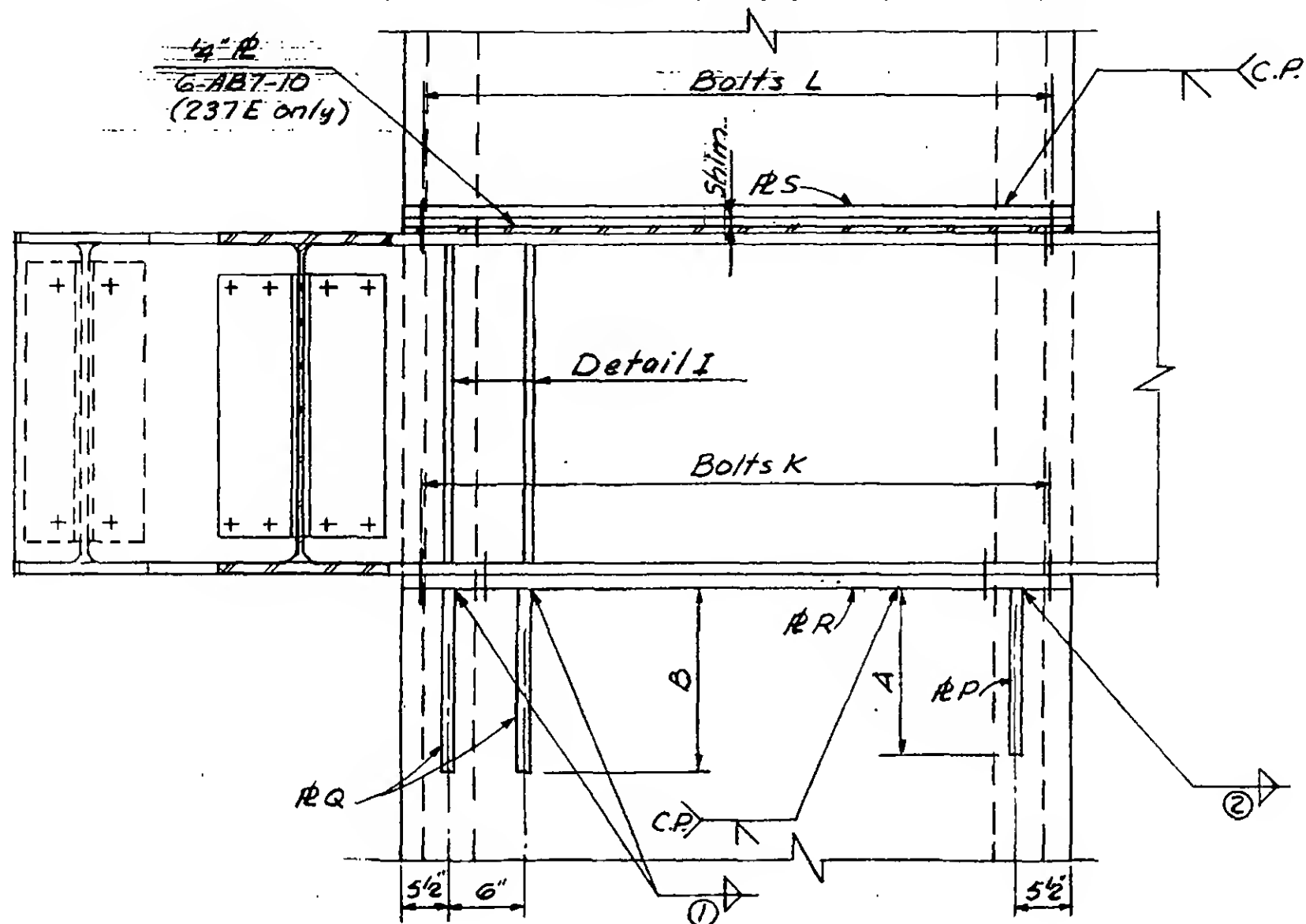
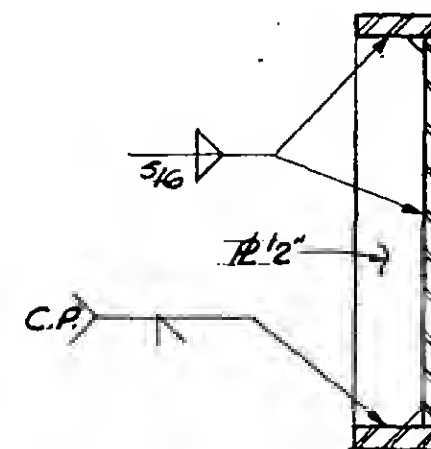
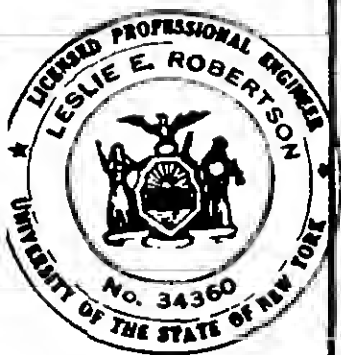
TITLE

CONNECTION DETAIL 237 E & F

DATE

2-9-68

REVISIONS

Section C-CDetail I

PROJECT

THE WORLD TRADE CENTER

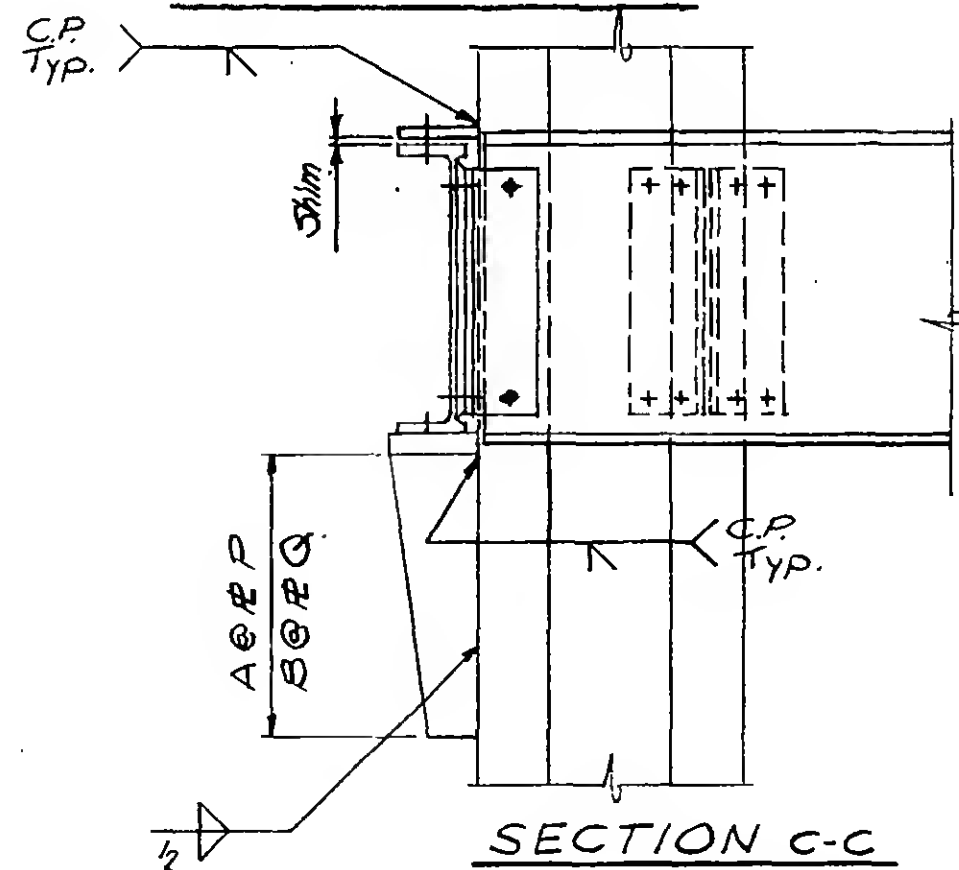
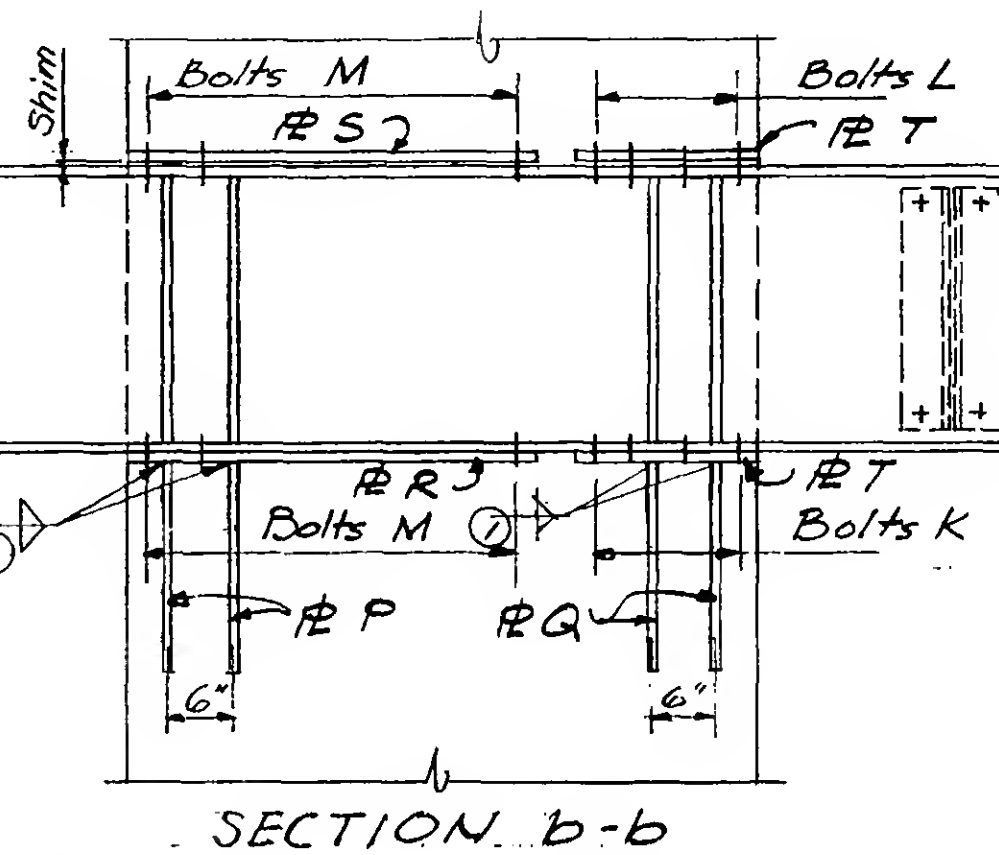
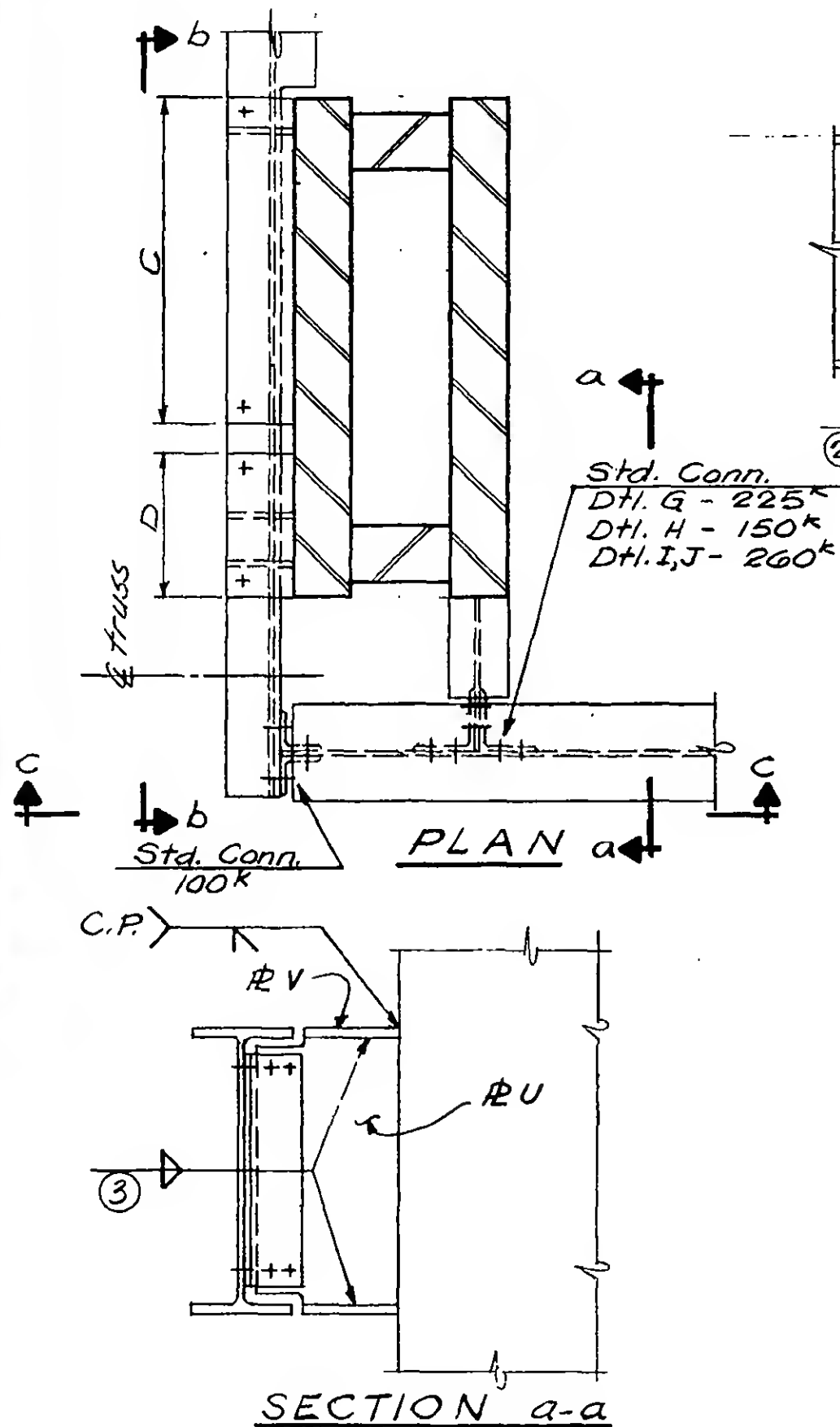
TITLE

CONNECTION DETAIL 237 G, H, I, J

DATE

9-18-68

REVISIONS



DESIGNED

DRAWN

REVIEWED

G-ABI-44.7

PROJECT THE WORLD TRADE CENTER

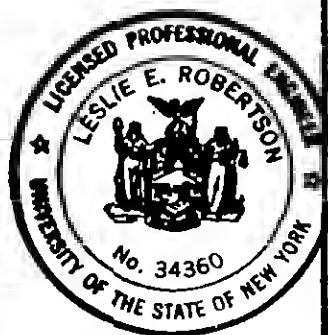
TITLE SCHEDULE FOR DETAIL 237 G, H, I, J

DATE 9-18-68

REVISIONS

	237 G	237 H	237 I	237 J		
PLATES						
P	1"	1"	1"	1"		
Q	1"	1"	1"	1"		
R	1"	1"	1"	1"		
S	1"	1"	1"	1"		
T	1"	1"	1"	1"		
U	3/4"	5/8"	7/8"	7/8"		
V	1 1/2"	1 1/4"	1 1/2"	1 1/2"		
DIMENSIONS						
A	1'-0"	1'-0"	1'-0"	1'-0"		
B	1'-0"	1'-0"	1'-0"	1'-0"		
C	1'-8"	1'-8"	1'-8"	1'-8"		
D	1'-8"	1'-8"	1'-8"	1'-8"		
ANGLES						
A	-	-	-	-		
B	-	-	-	-		
BOLTS						
K	6 - 3/4" ϕ	6 - 3/4" ϕ	6 - 1" ϕ	6 - 3/4" ϕ		
L	6 - 3/4" ϕ	6 - 3/4" ϕ	6 - 1" ϕ	6 - 3/4" ϕ		
M	6 - 3/4" ϕ	6 - 3/4" ϕ	6 - 1" ϕ	6 - 3/4" ϕ		
N	-	-	-	-		
WELDS						
①	1/2	3/8	1/2	1/2		
②	1/2	3/8	1/2	1/2		
③	1/2	3/8	1/2	1/2		

6-ABI-44.8

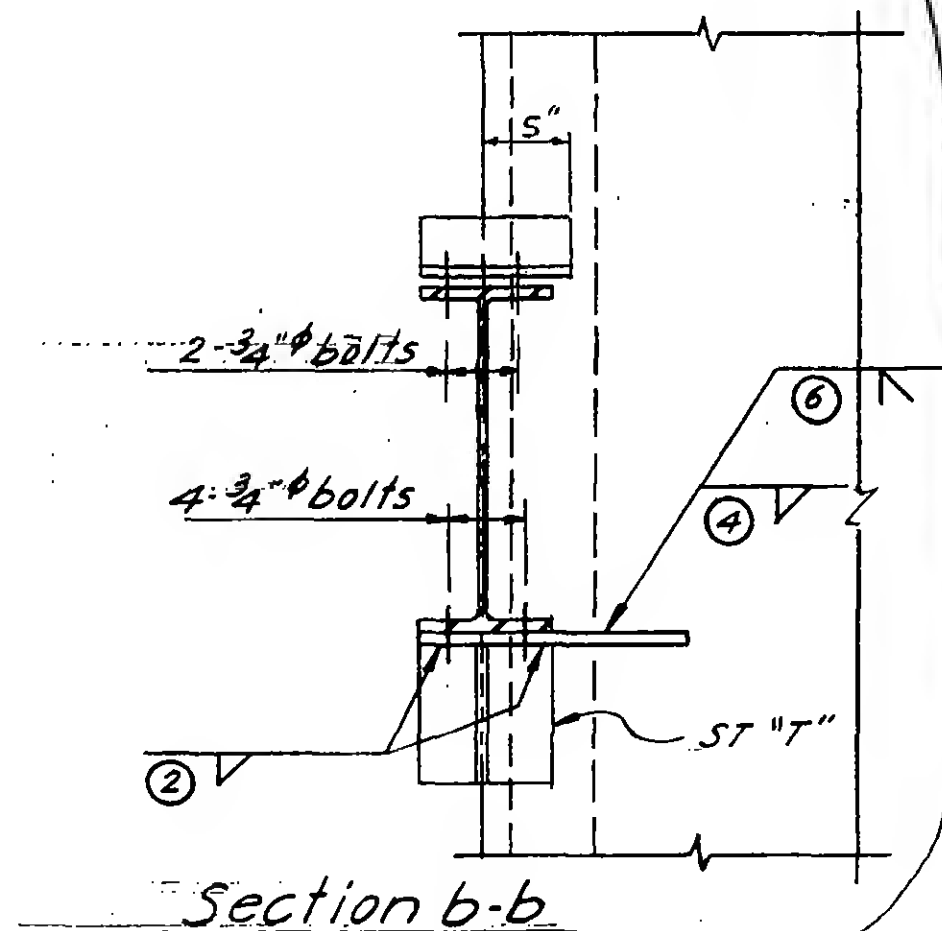
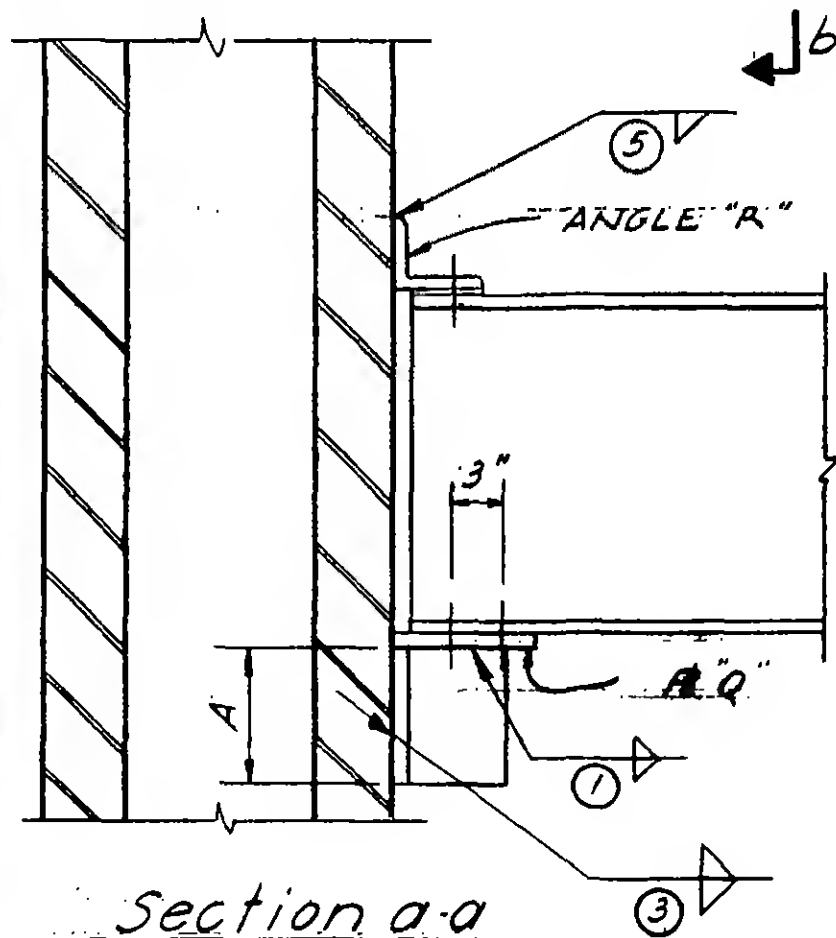
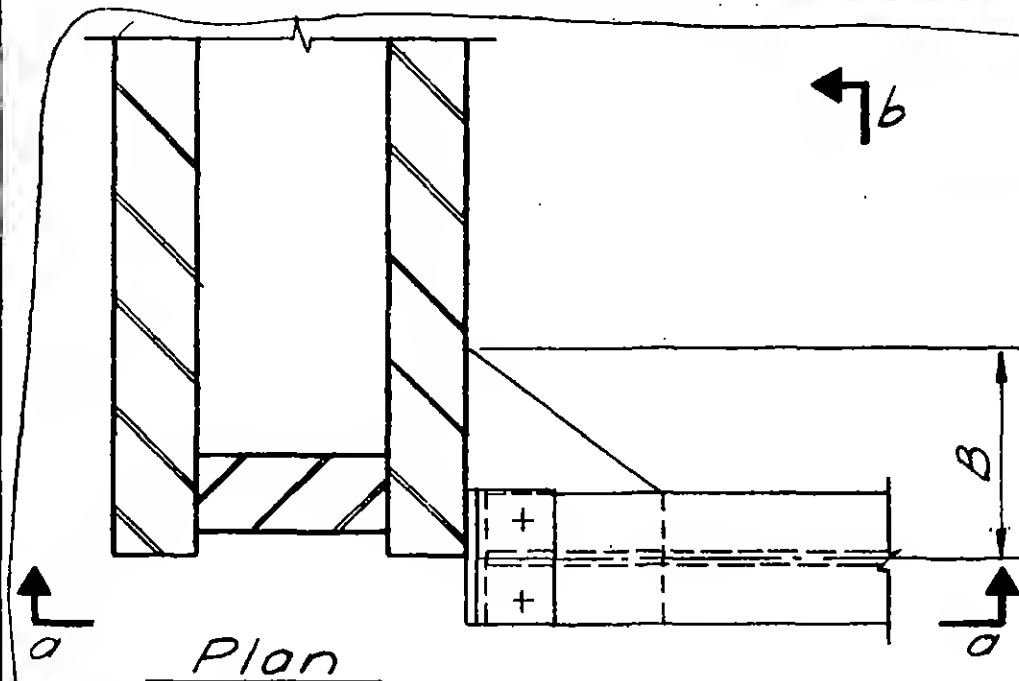


REVISIONS

7-5-67

7-28-67

10-2-67



PROJECT THE WORLD TRADE CENTER

TITLE SCHEDULE FOR DETAIL 238 A, B, C, D

DATE 7-5-67

REVISIONS

7-28-67

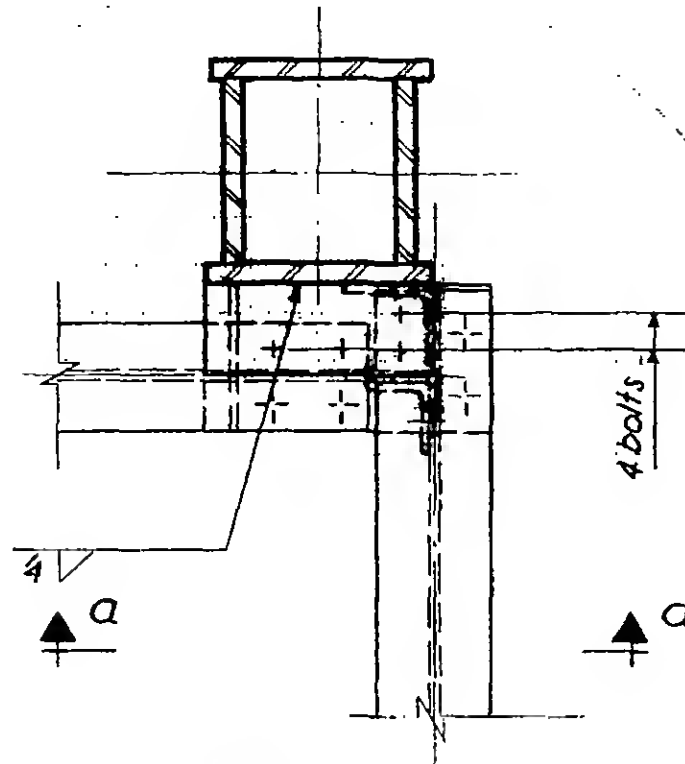
10-2-67

	238 A & B	238 C	238 D			
PLATES						
Q	3/8"	1"	3/4"			
ANGLES						
R	5 x 3 x 5/16	5 x 3 x 5/16	4 x 4 x 3/8			
ST T	ST 5 WF 27	ST 6 WF 60	ST 6 WF 60			
DIMENSIONS						
A	0'-10"	1'-4"	1'-0"			
B	0'-6 1/2"	—	0'-6 1/2"			
WELDS						
①	5/16	1/2	5/16			
②	5/16	5/16	5/16			
③	1/2	1/2	5/8			
④	1/2	—	5/16			
⑤	5/16	5/16	5/16			
⑥	—	C.P.	—			

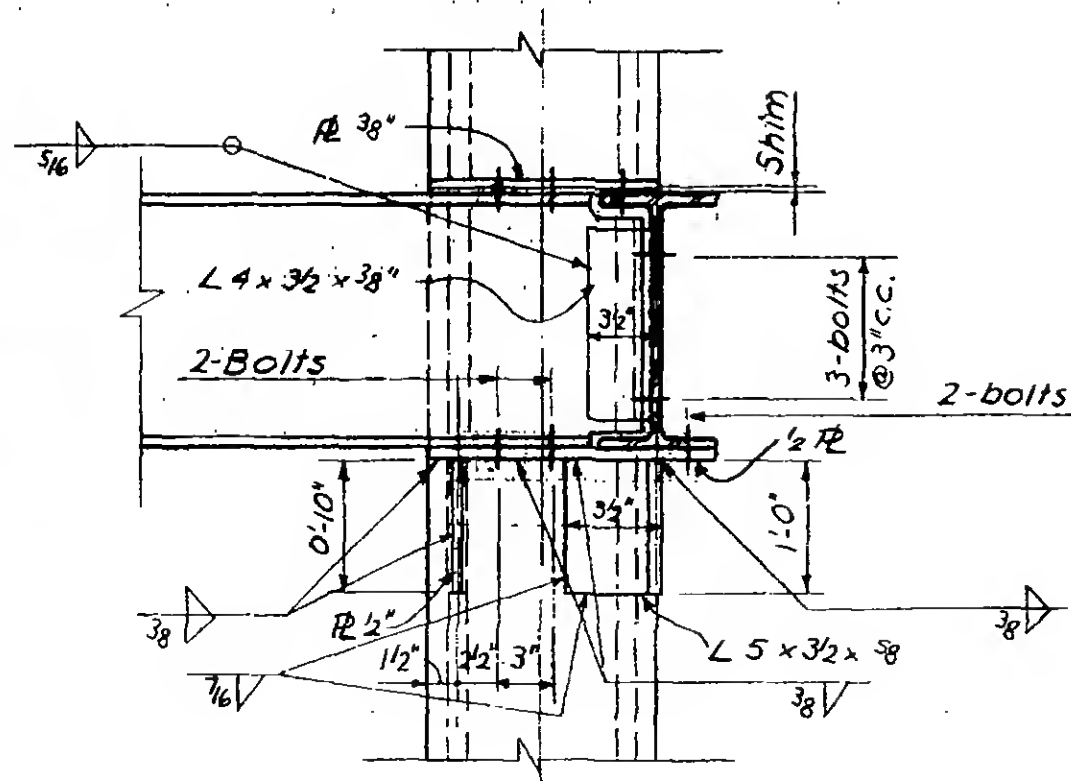


REVISIONS

10-2-67



Plan



Section a-a



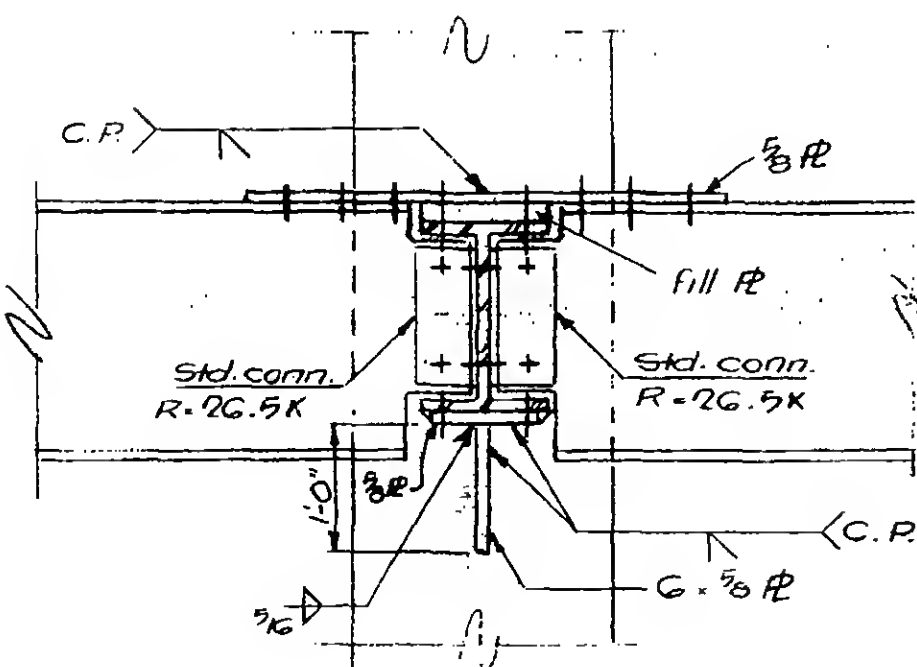
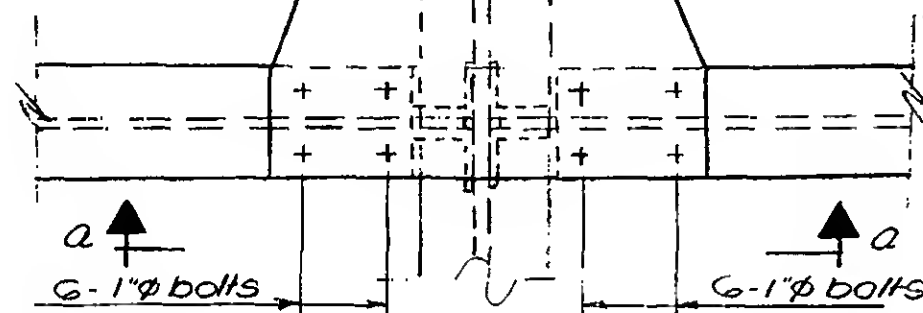
6-ABI-46

REVISIONS

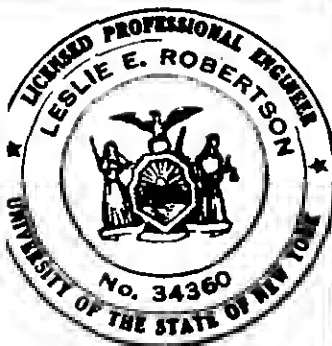
10-5-67

4-3/4" ϕ bolts
top & bottom

Plan



SECTION a-a



PROJECT

THE WORLD TRADE CENTER

TITLE

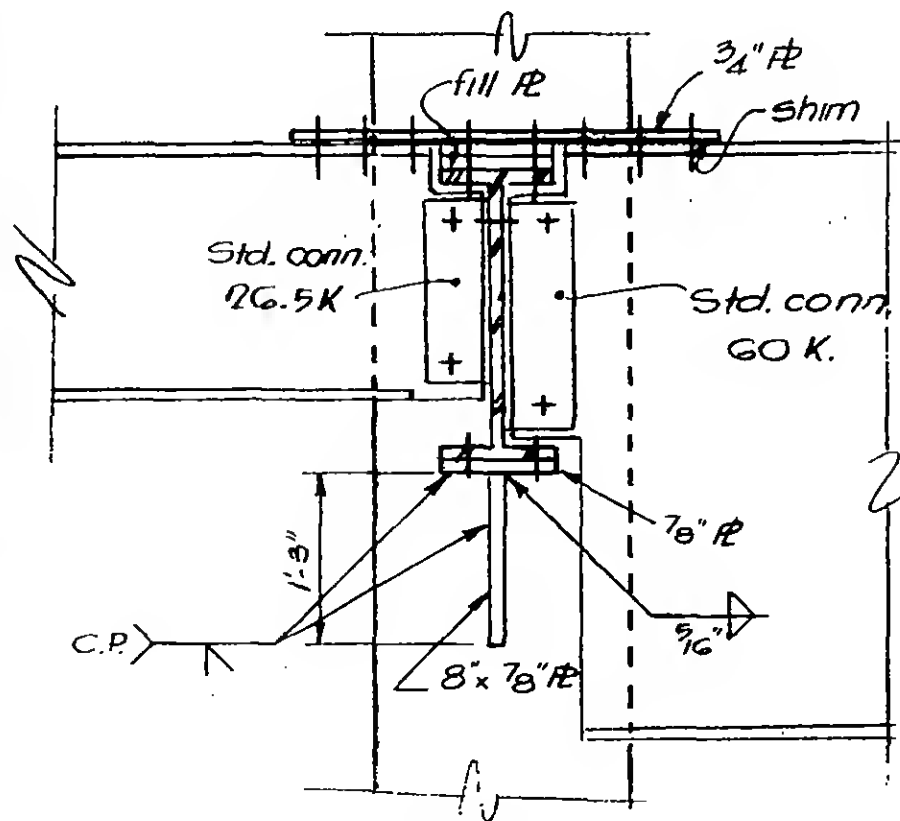
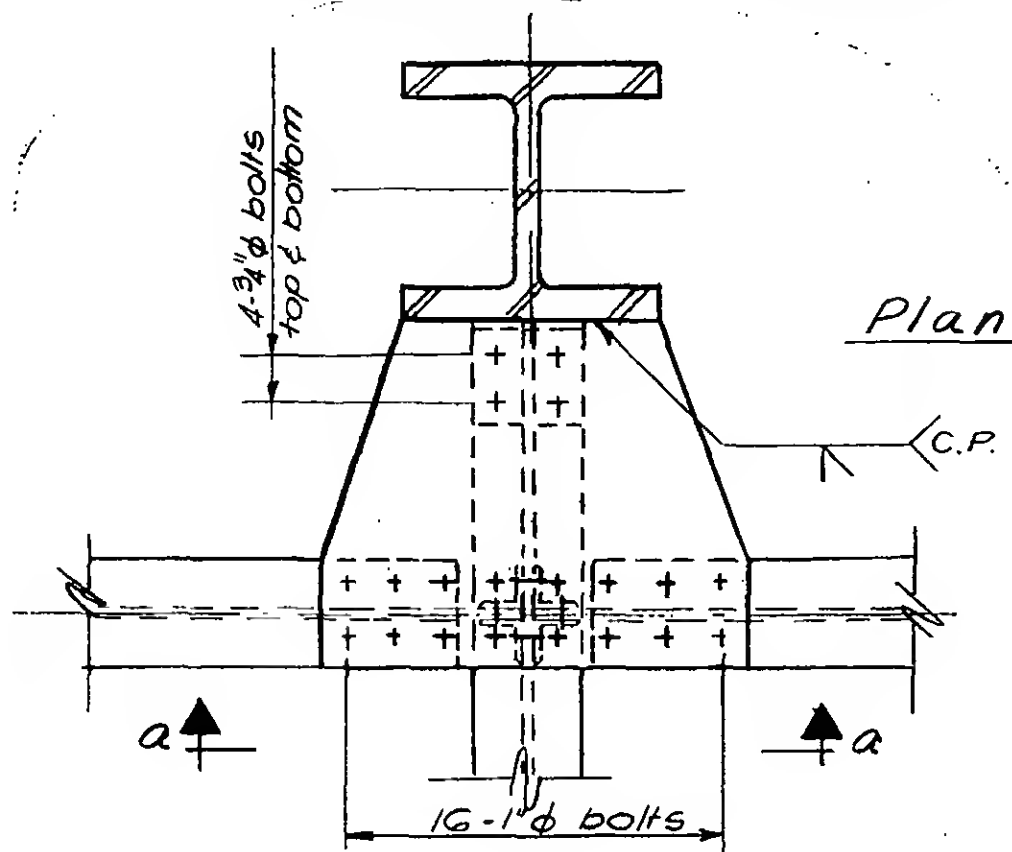
CONNECTION DETAIL 242 (A. B)

DATE

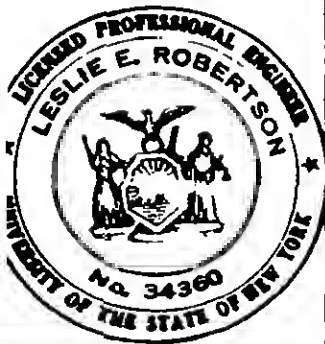
6-30-67

REVISIONS

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SECTION a-a

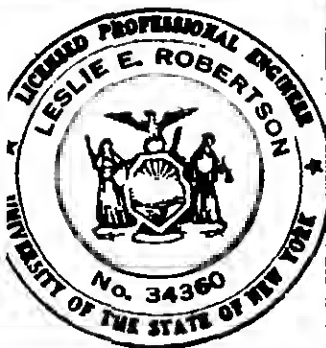
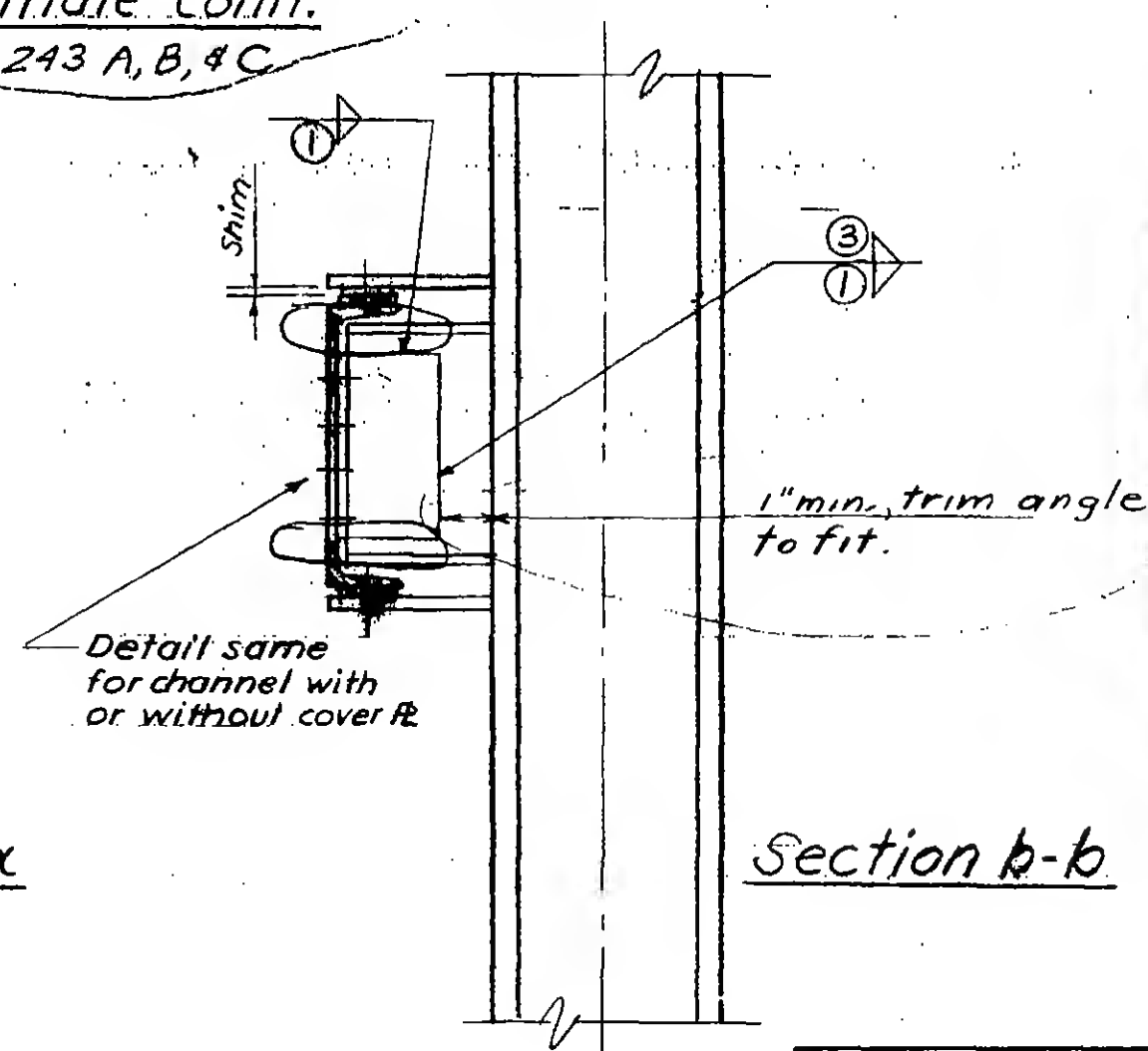
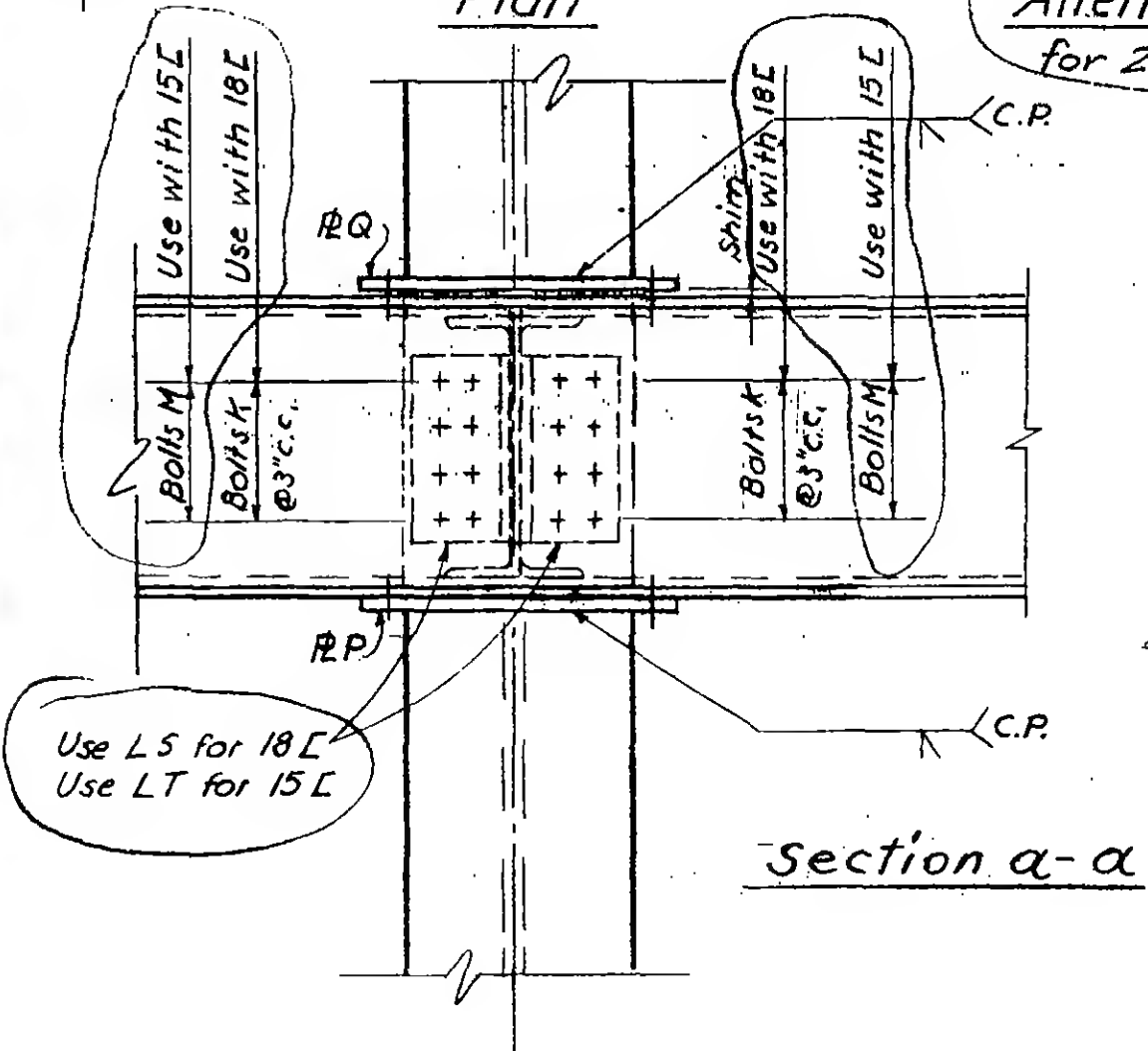
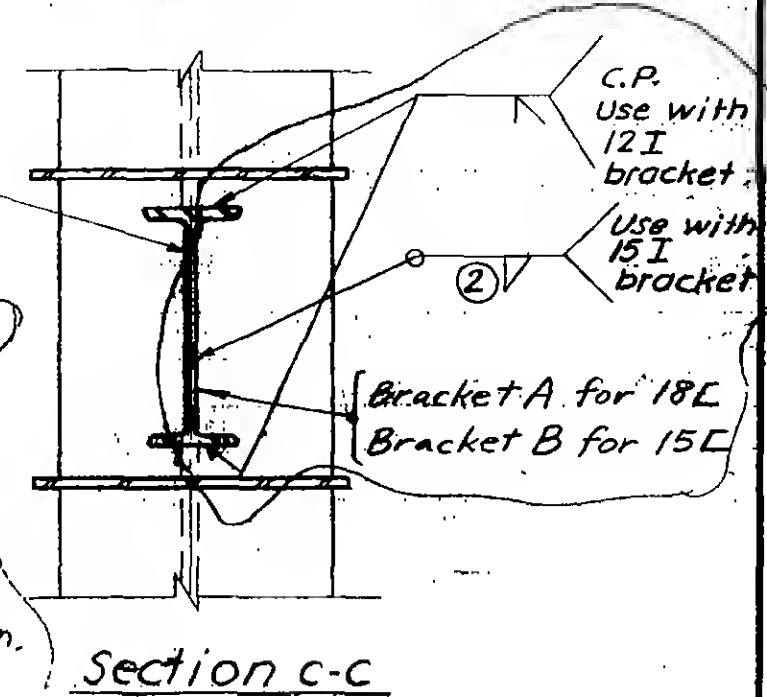
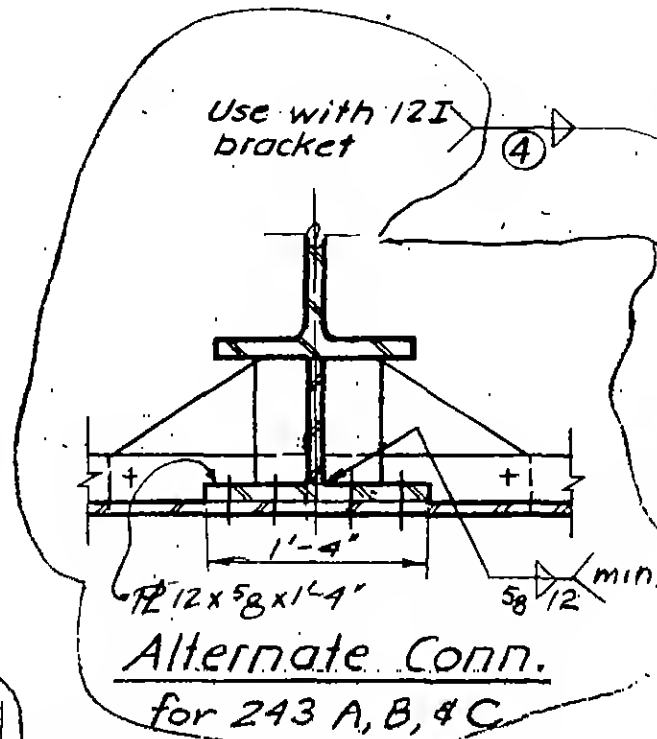
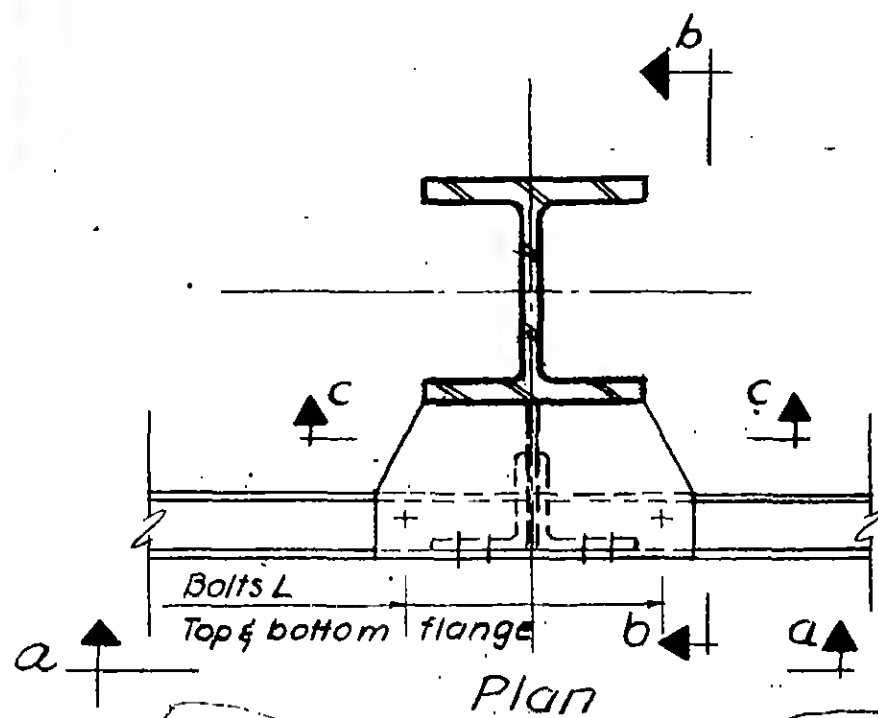


REVISIONS

10-5-67

11-23-67

5-6-68



Structural & Civil Engineers

TITLE SCHEDULE FOR DETAIL 243 A, B, C

DATE 10-5-67

11-23-67

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6-AB1-49.1



WORTHINGTON, SKILLING, HELLE & JACKSON

Civil & Structural Engineers

PROJECT THE WORLD TRADE CENTER

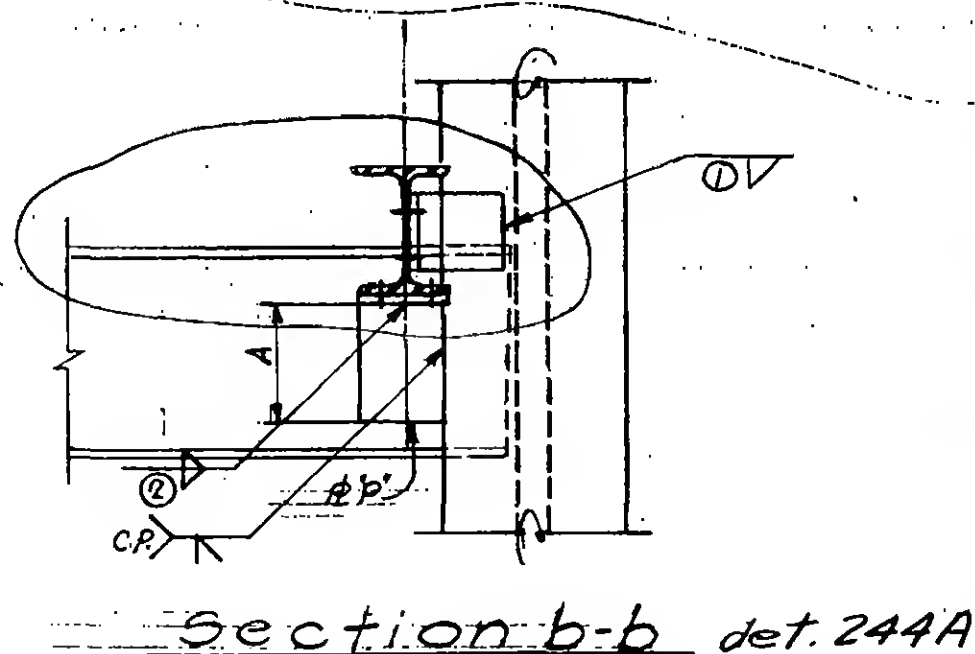
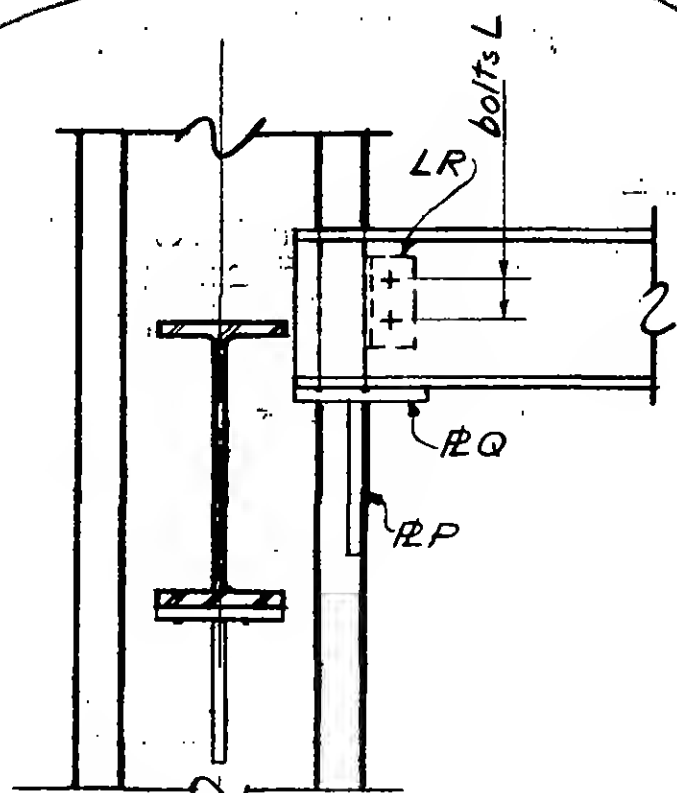
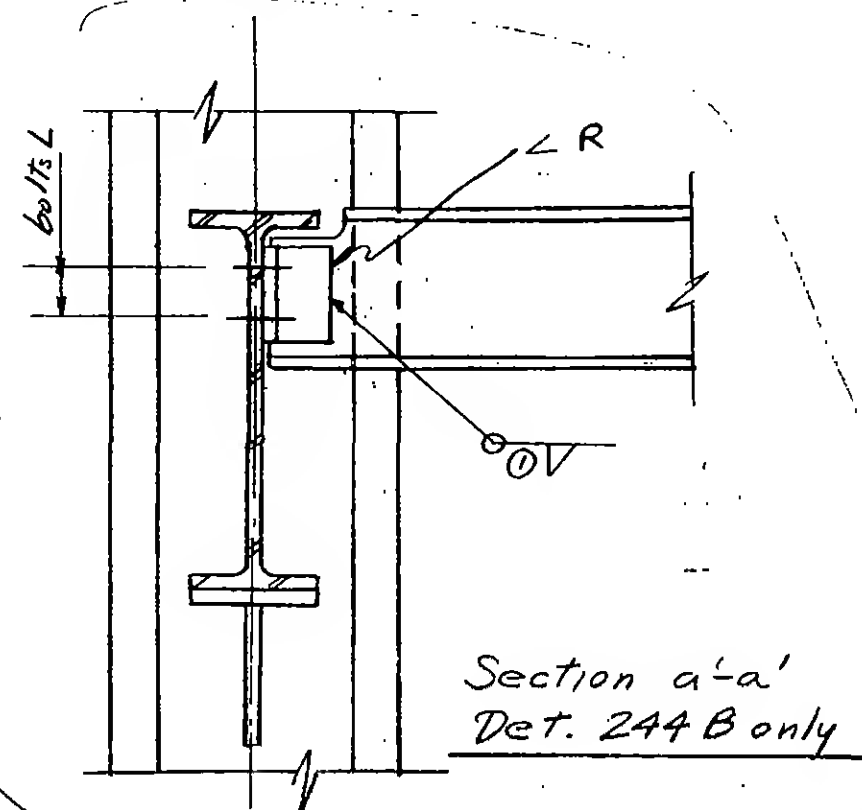
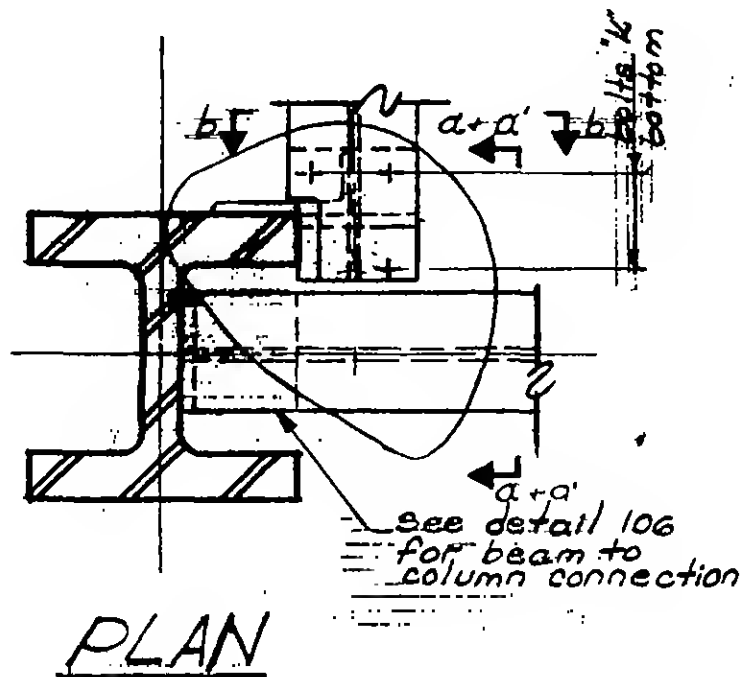
TITLE CONNECTION

DETAIL 244A, B

DATE 6-5-67

REVISIONS

10-7-67
9-25-68



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Structural & Civil Engineers

PROJECT *THE WORLD TRADE CENTER*

TITLE	SCHEDULE FOR DETAIL	244 A,B
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DATE 10-2-67

REVISIONS

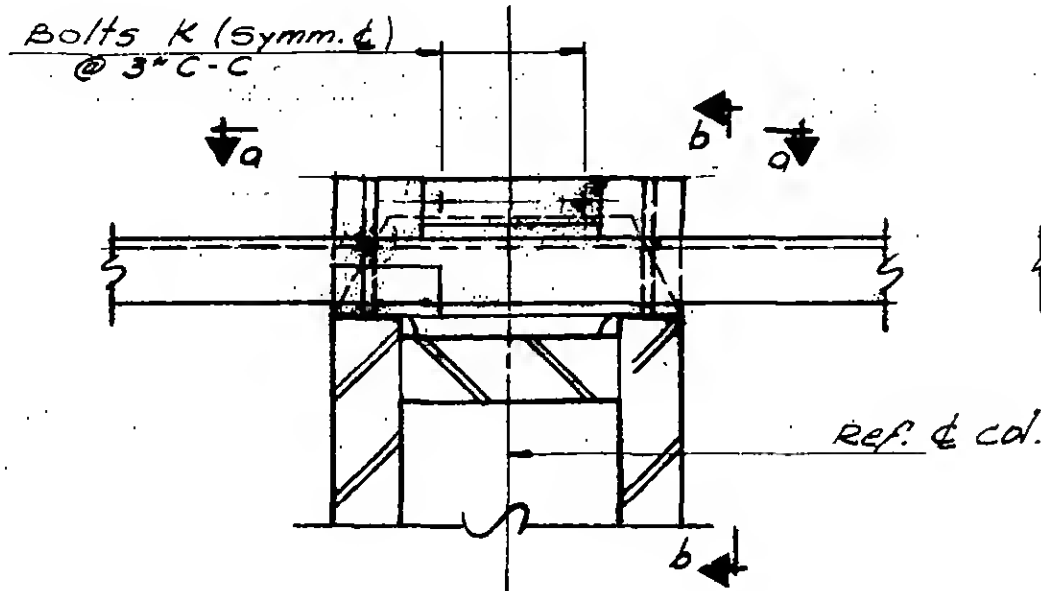
[illegible]

6-AB1-50.1

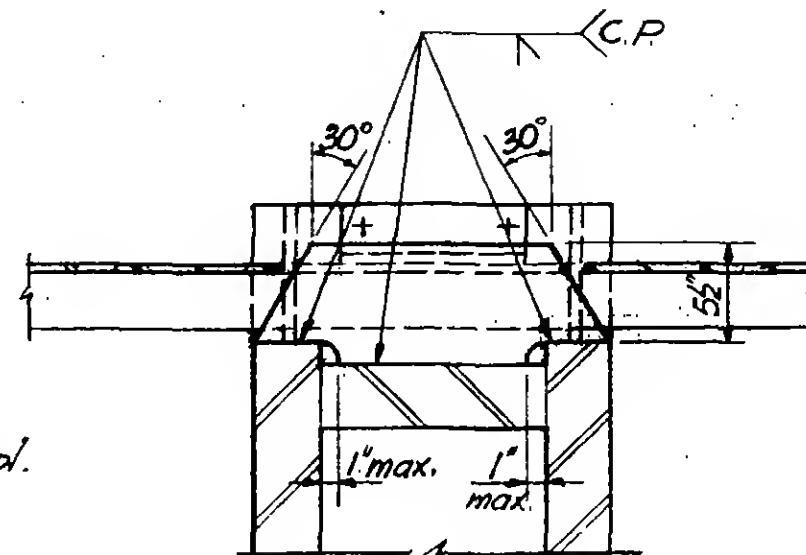


REVISIONS

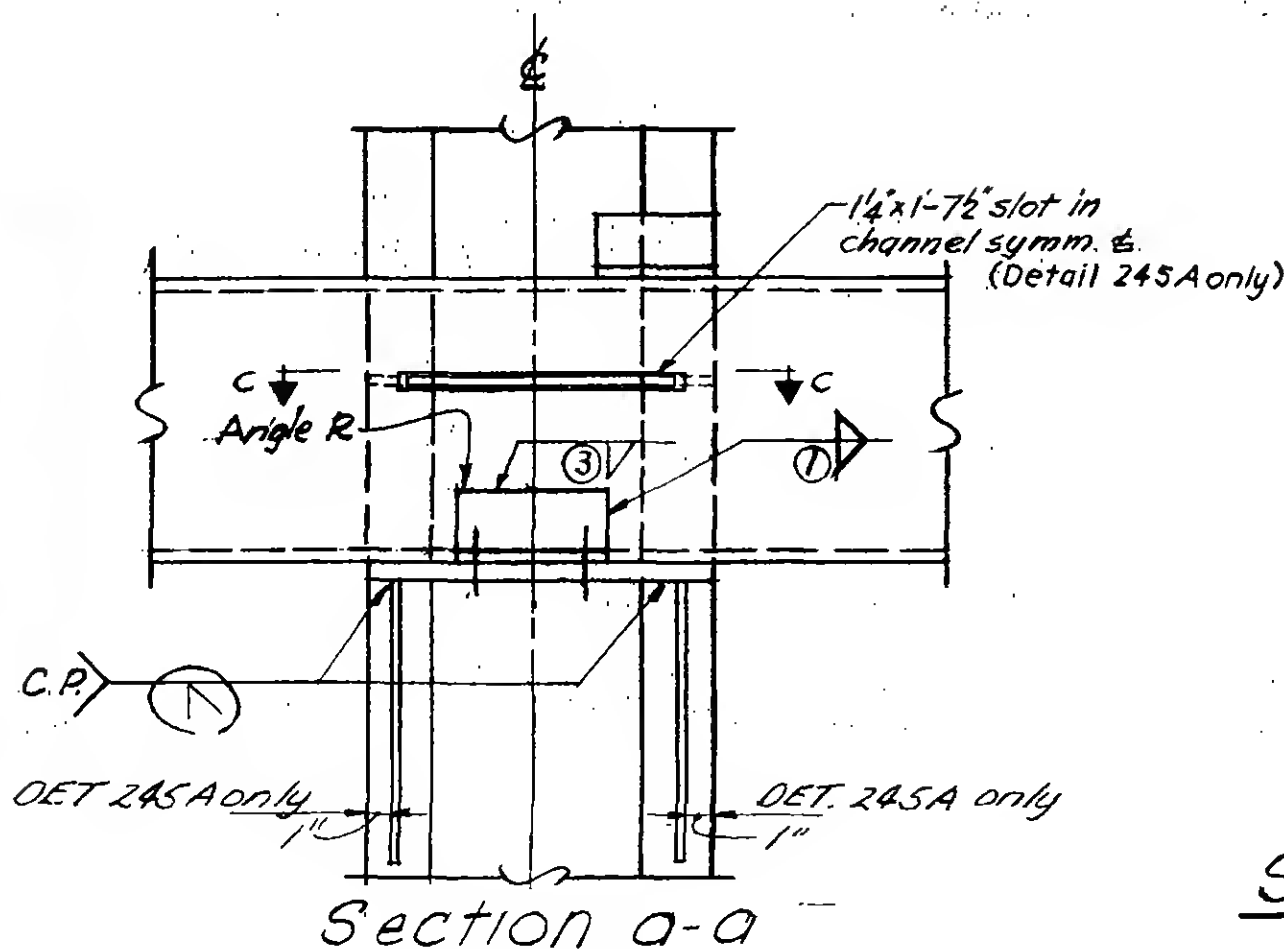
7-28-67
8-5-67
9-15-67
11-10-67



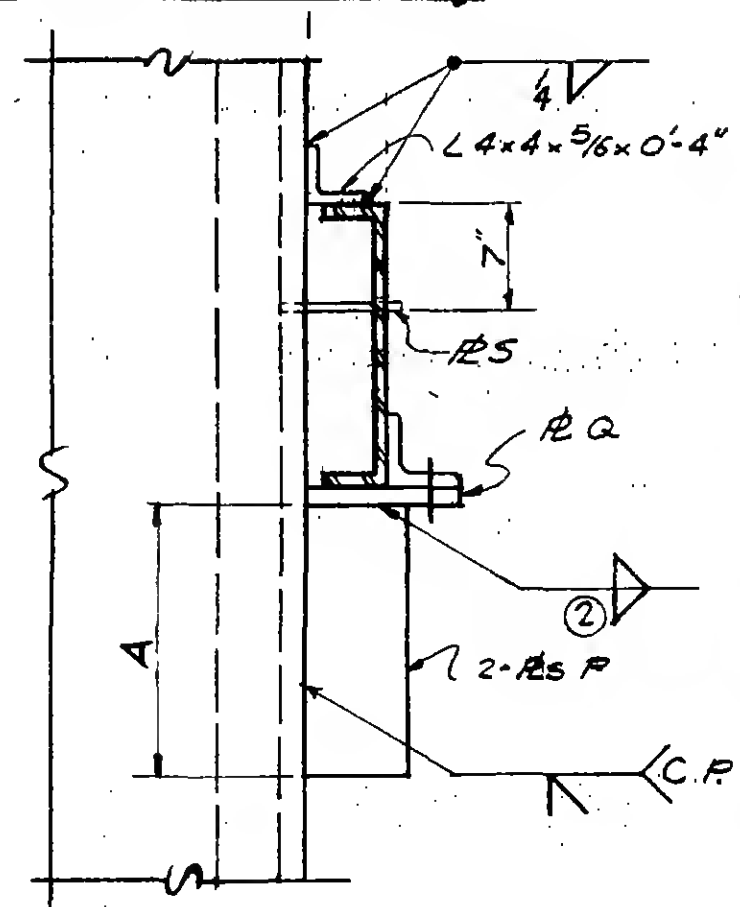
PLAN



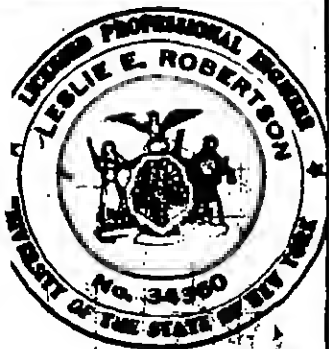
Section C-C
Detail 245 A only



Section a-a



Section b-b



Structural & Civil Engineers

PROJECT

THE WORLD TRADE CENTER

TITLE

TITLE SCHEDULE FOR DETAIL 245 A, B, C, D, E, F

DATE _____

DATE 7-28-67

REVISIONS

8-5-67

9-15-67

10-5-67

	245 A	245 B	245 C	245 D	245 E	245 F
PLATES						
P	7" x 1/2"	7" x 3/4"	7" x 3/4"	7" x 5/8"	6" x 5/8"	6" x 3/4"
Q	1"	3/4"	1"	1"	3/4"	3/4"
S	7/8"	—	—	—	—	—
ANGLES						
R	3 1/2 x 3 1/2 x 3/8	3 x 3 x 5/16	3 1/2 x 3 1/2 x 3/8	3 1/2 x 3 1/2 x 3/8	—	—
DIMENSIONS						
A	1'-4"	1'-5"	1'-3"	1'-1"	1'-1"	1'-5"
BOLTS						
K	5-1" φ	3-3/4" φ	5-1" φ	4-3/4" φ	2-3/4" φ	2-3/4" φ
WELDS						
①	5/16	1/4	1/4	1/4	—	—
②	5/16	5/16	5/16	5/16	—	—
③	—	—	1/4	1/4	—	—

SKILLING - HELLE - CHRISTIANSEN - ROBERTSON

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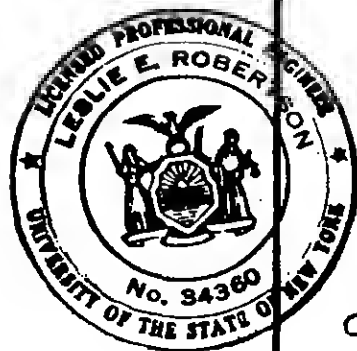
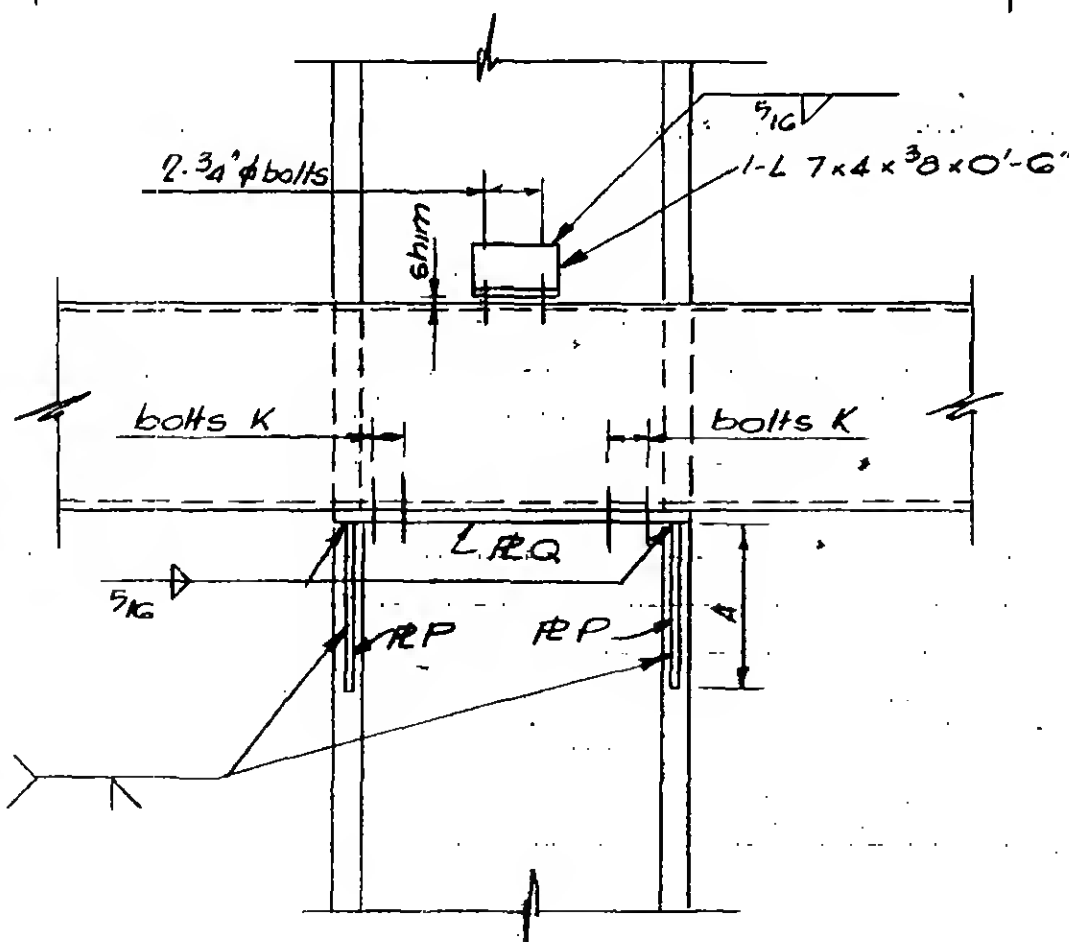
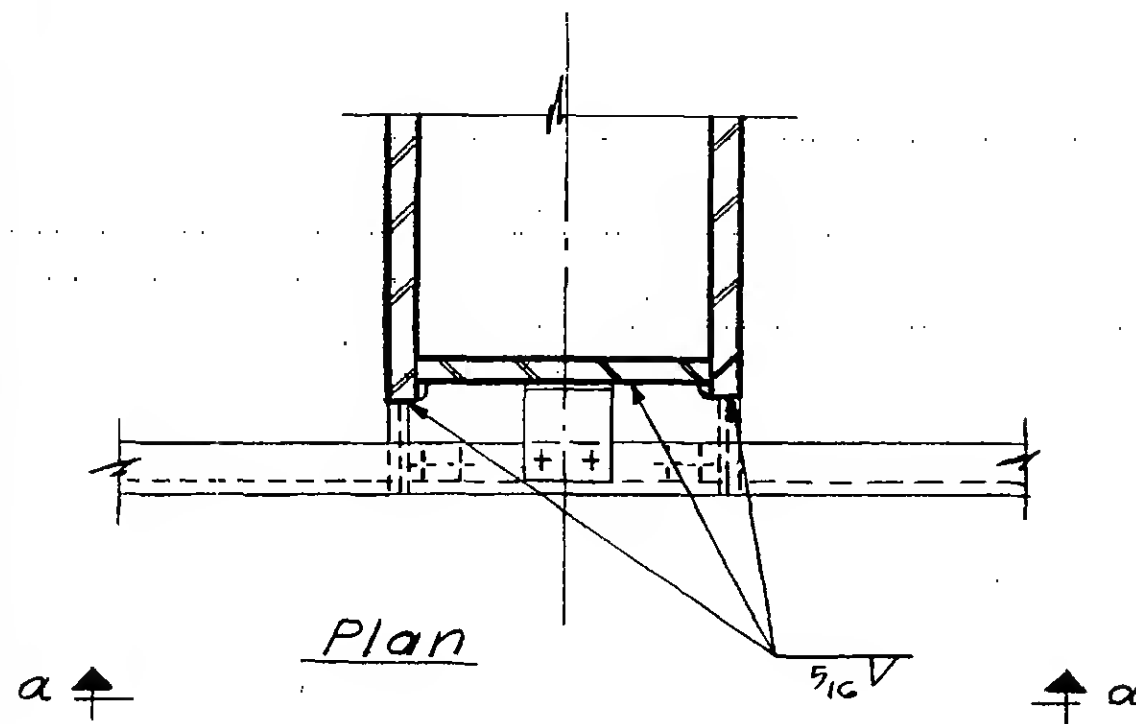
PROJECT THE WORLD TRADE CENTER

TITLE CONNECTION DETAIL 247 E.F.G.

DATE 10-9-67

REVISIONS

11-23-67



G-ABI-51.2

Structural & Civil Engineers

TITLE SCHEDULE FOR DETAIL 245 G

DATE 11-23-67

REVISIONS

245 G

PLATES

p

58

Q

58

DIMENSIONS

A

1'-2"

BOLTS

K

2-3 4" ϕ



6-AB1-51.3

REVISIONS

7-28-67

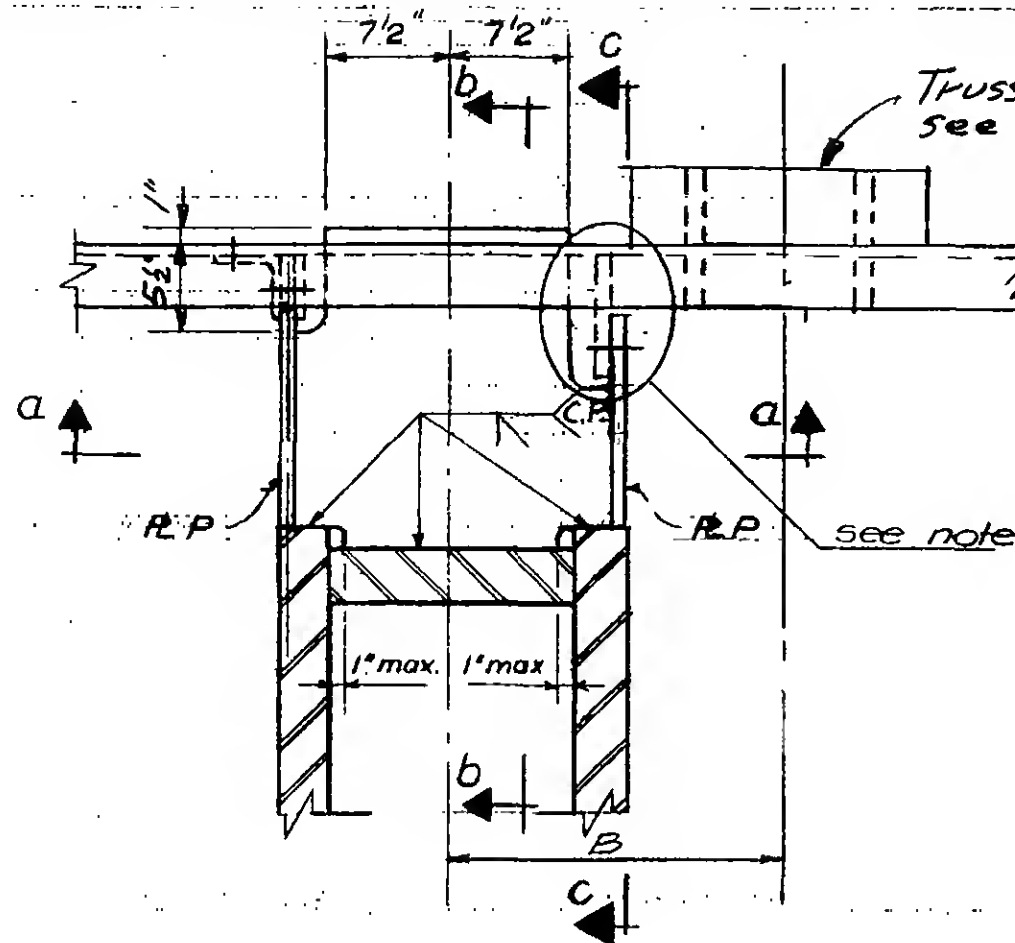
8-14-67

9-15-67

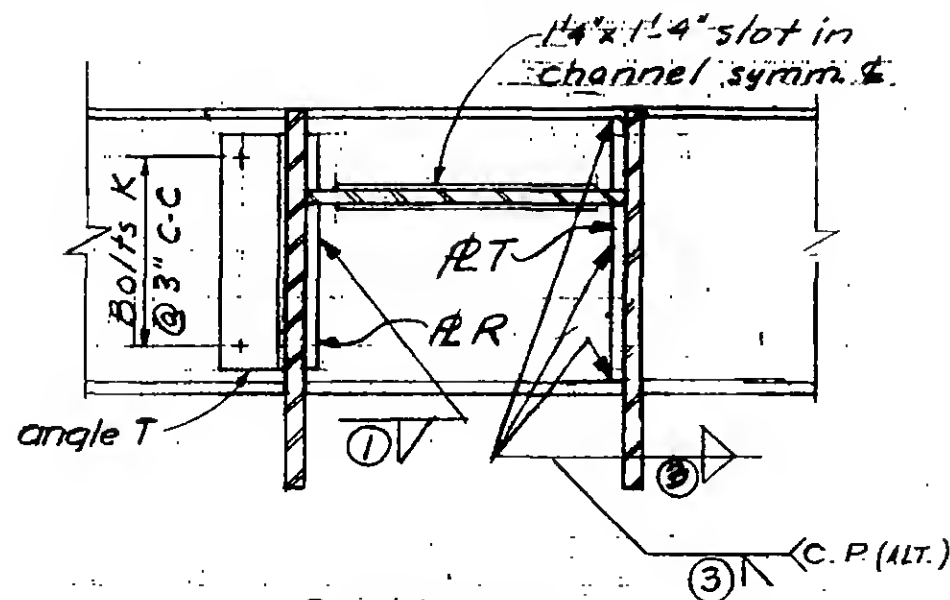
10-3-67

10-31-67

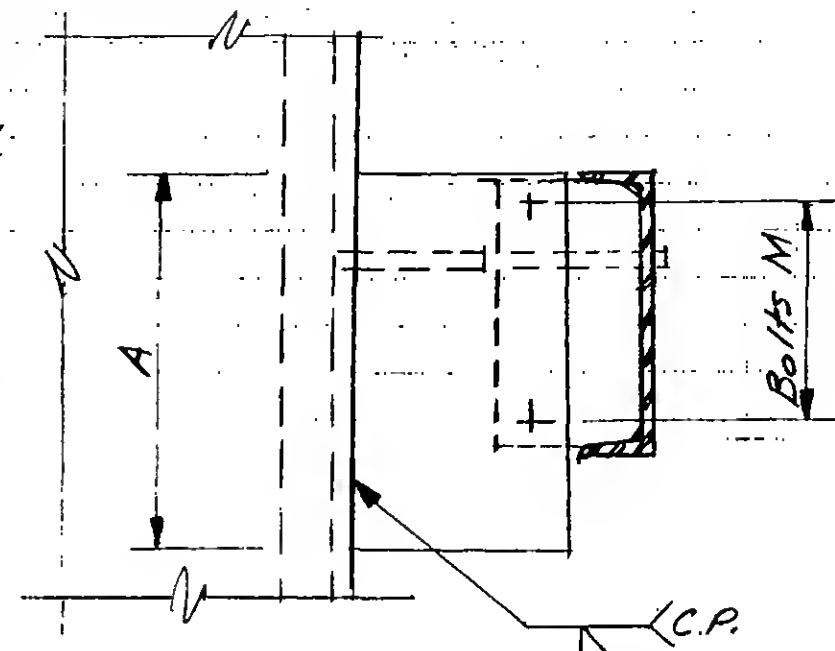
..11-23-67



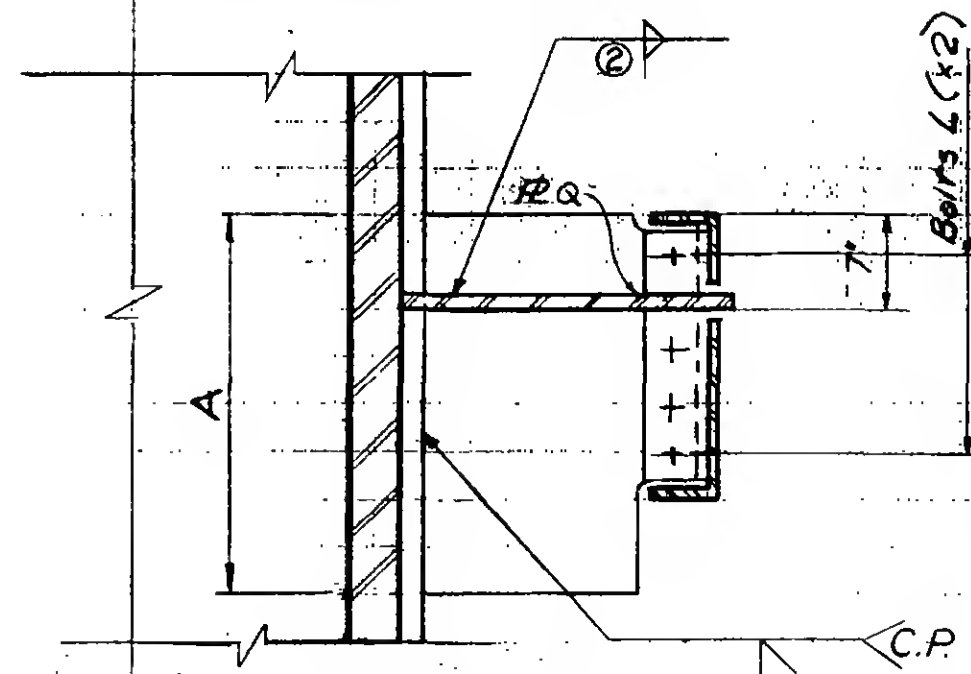
Plan



Section a-a



Section - c-c



Section b-b

Note: Use plan & section c-c as shown for detailing, only if dimension $B = 1'-5"$ or less, otherwise detail is symmetrical to other side of plan.



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Structural & Civil Engineers

PROJECT

THE WORLD TRADE CENTER

TITLE

SCHEDULE FOR DETAIL 246 A, B, C, D

DATE

7-28-67

REVISIONS

8-14-67

9-15-67

10-3-67

10-31-67

11-10-67

11-23-67

PLATE

P

1/8"

7/8"

7/8"

1/8"

Q

7/8"

3/4"

1"

1"

R

1/2"

3/8"

3/8"

5/8"

T

1"

1"

1"

1"

DIMENSIONS

A

1'-6"

1'-8"

2'-0"

2'-0"

ANGLES

T

4 x 3 1/2 x 5/16

4 x 3 1/2 x 5/16

4 x 3 1/2 x 5/16

4 x 3 1/2 x 3/8

BOLTS

K

4 - 3/4" ϕ 4 - 3/4" ϕ 4 - 3/4" ϕ 4 - 7/8" ϕ

L

4 - 3/4" ϕ 4 - 3/4" ϕ 4 - 3/4" ϕ 4 - 7/8" ϕ

M

5 - 1/8" ϕ (A490)5 - 1/8" ϕ (A490)5 - 1/8" ϕ (A490)5 - 1/8" ϕ A490

WELDS

①

7/16

7/16

7/16

1/2

②

3/8

3/8

3/8

5/16

③

5/16 or C.P.

5/16 or C.P.

5/16 or C.P.

C.P.



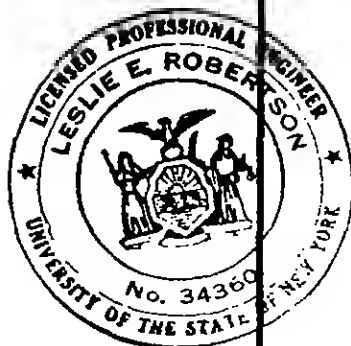
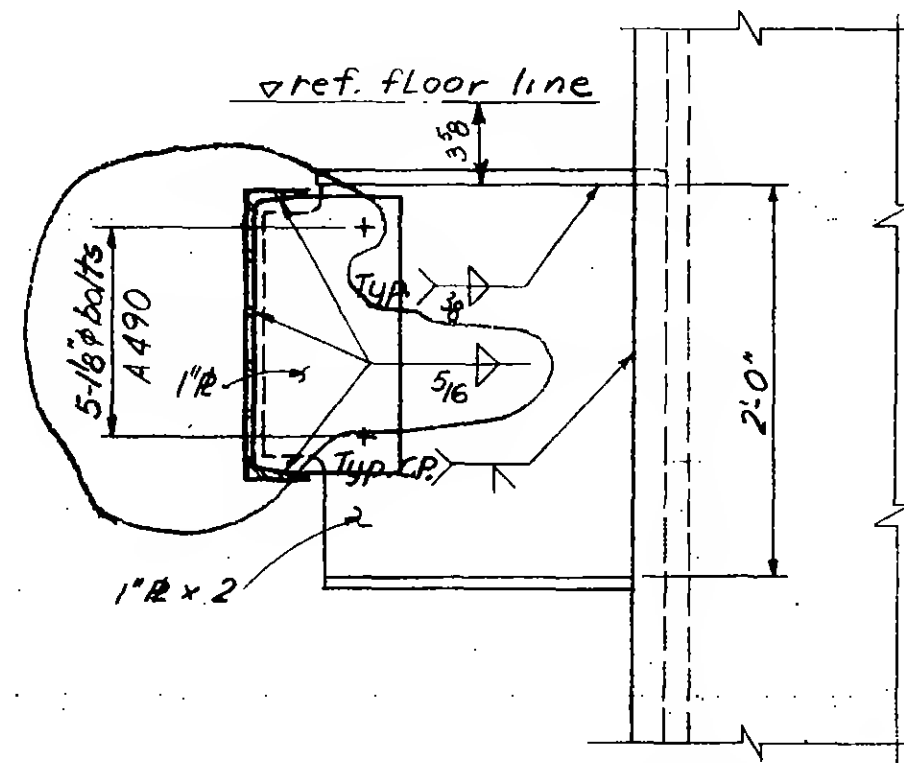
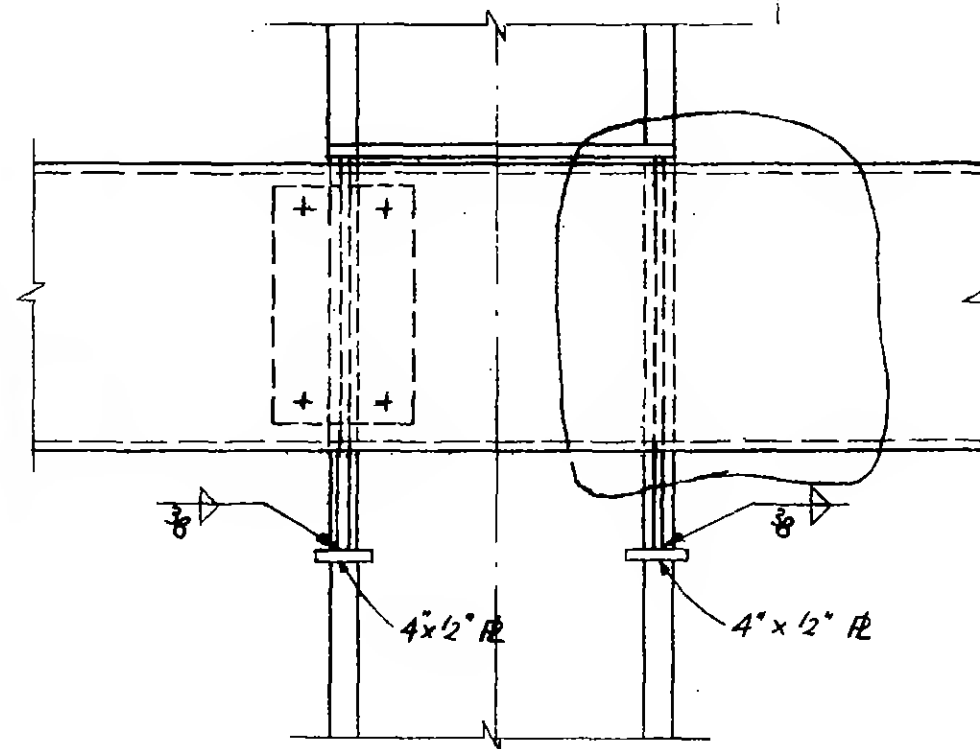
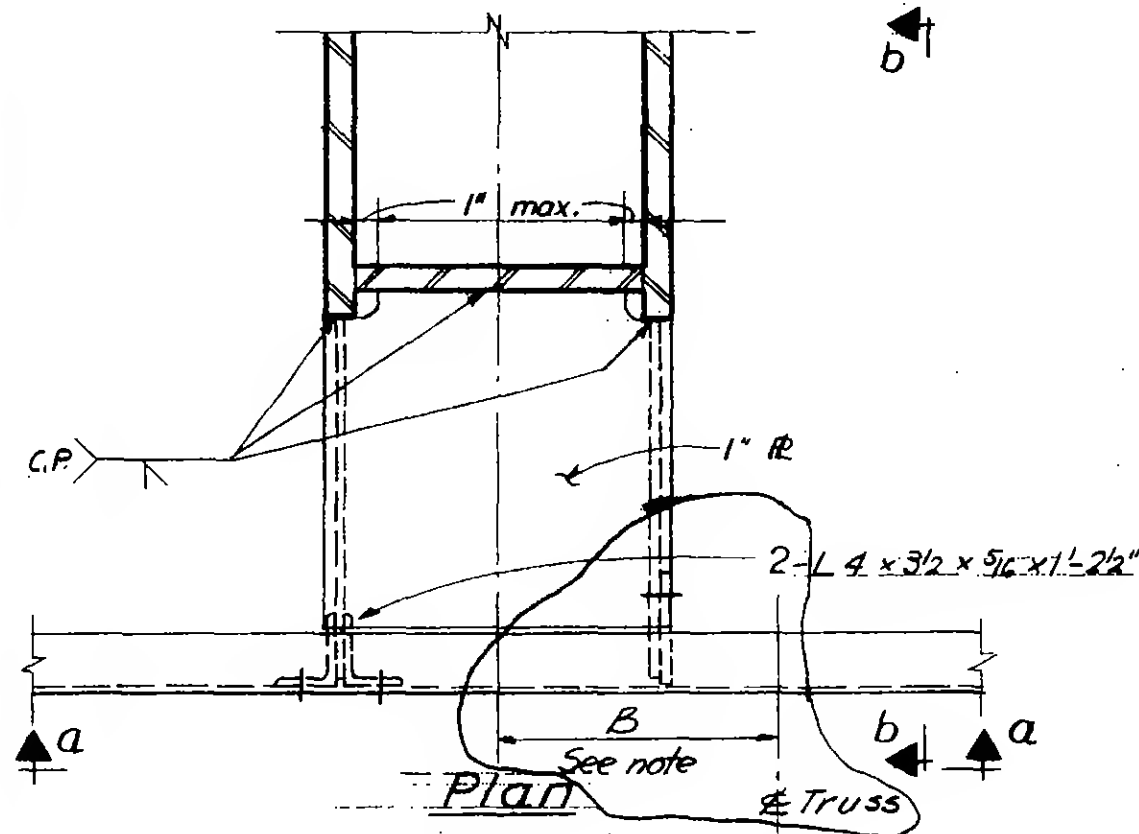
6-ABI-52.1

REVISIONS

12-21-67

1-24-68

Note: Use plan as shown for detailing only if dimension B = 1'-5" or less, otherwise detail is symmetrical to other side of plan.



Section a-a

Section b-b

PROJECT

THE WORLD TRADE CENTER

TITLE

CONNECTION DETAIL 247 A-6

DATE

5-9-67

REVISIONS

-28-67

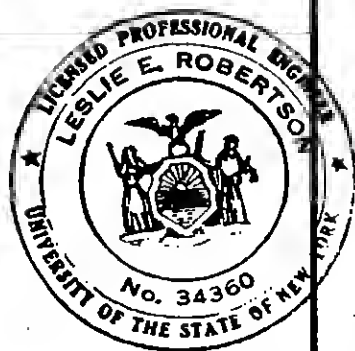
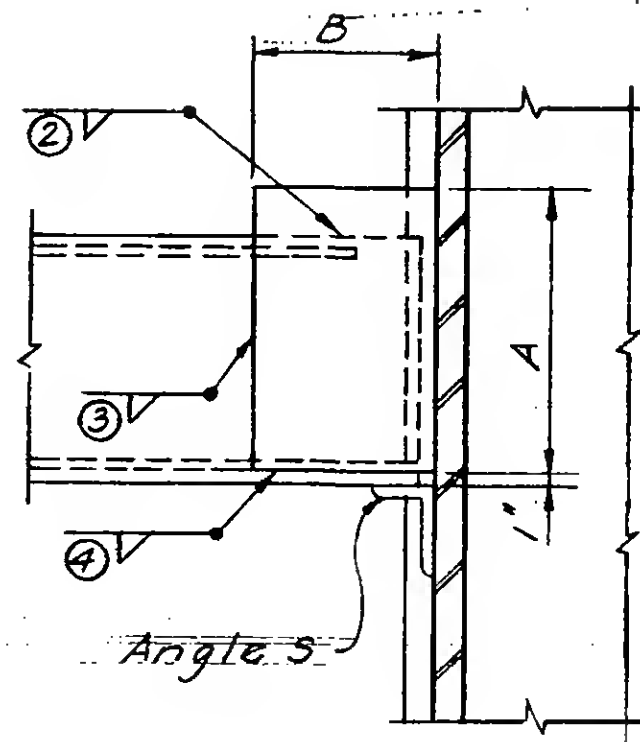
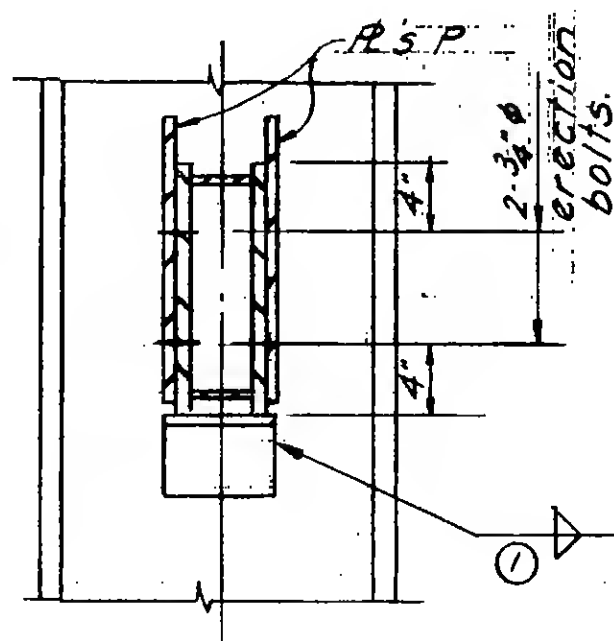
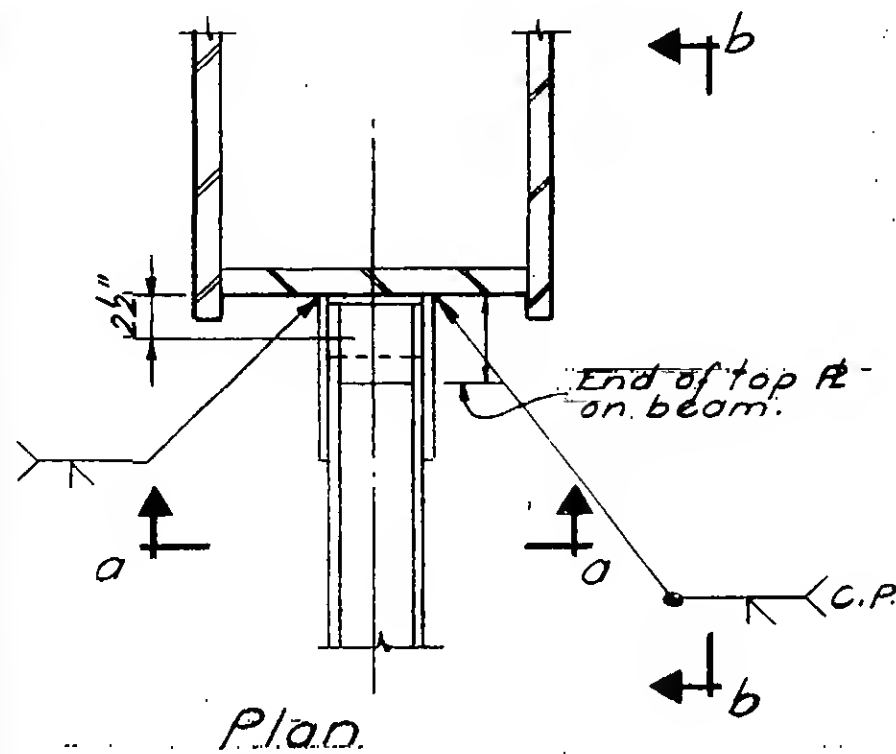
8-5-67

9-15-67

11-14-67

12-7-67

12-21-67



PROJECT

THE WORLD TRADE CENTER

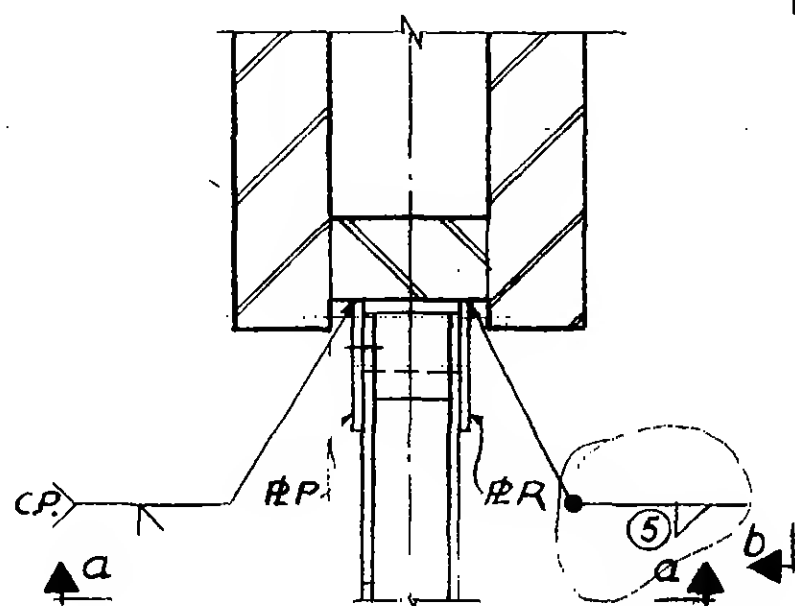
TITLE

CONNECTION DETAIL 247 A,C,E,G

DATE

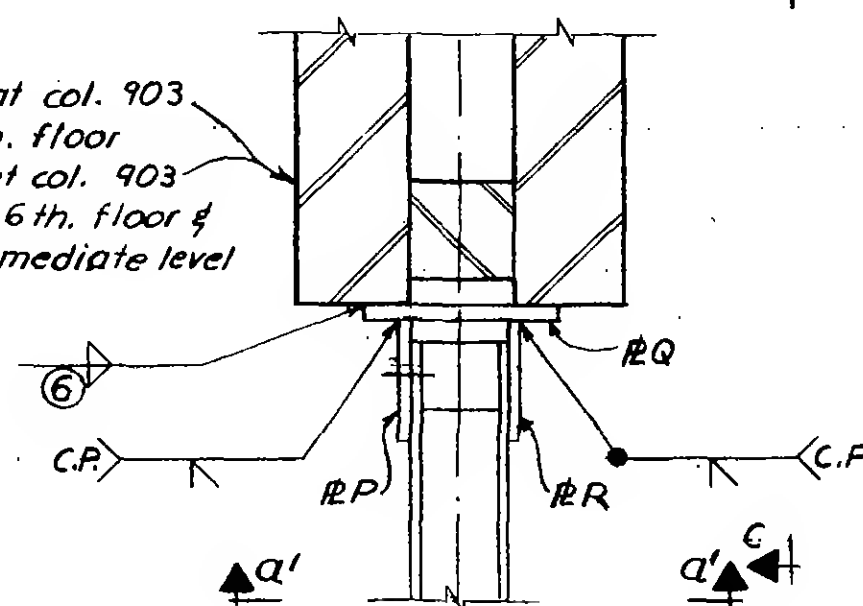
12-21-67

REVISIONS



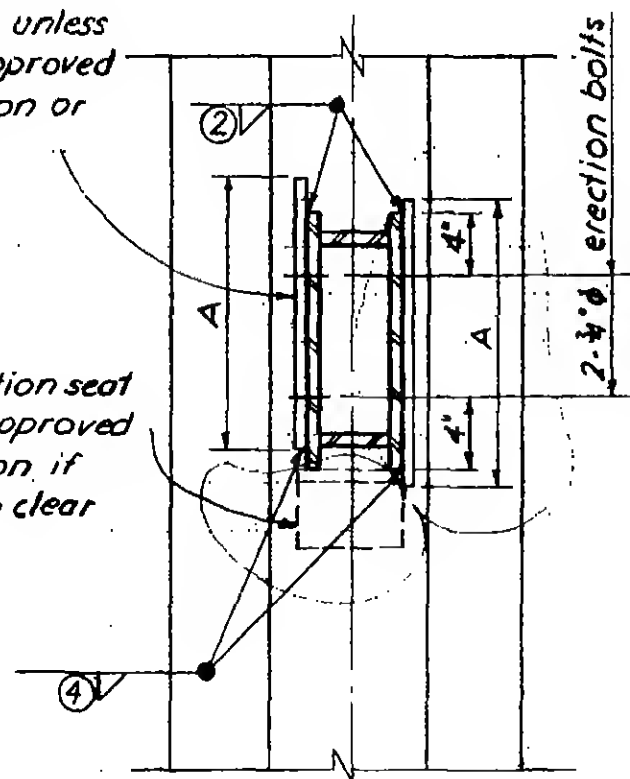
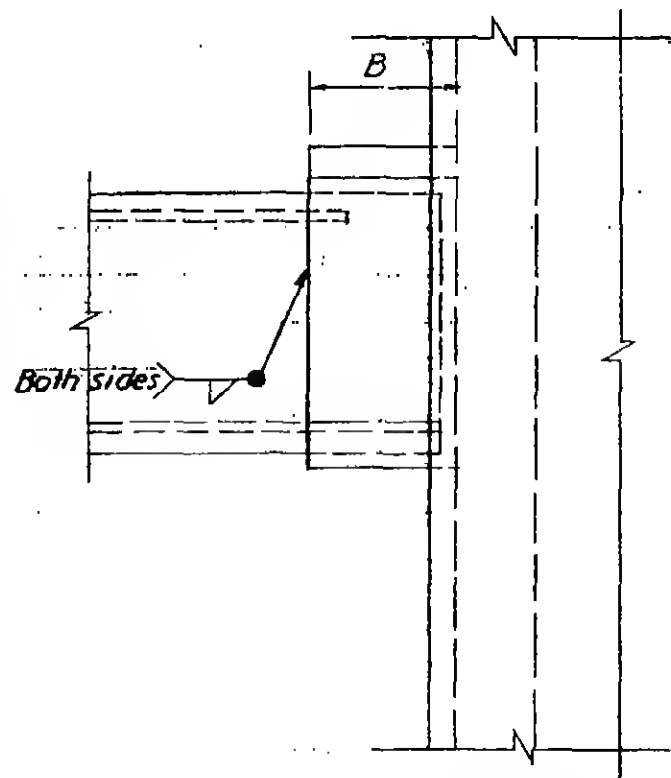
Plan A,C,E,G

247A - use at col. 903
@ 7th. floor
247G - use at col. 903
@ 2-6th. floor &
intermediate level

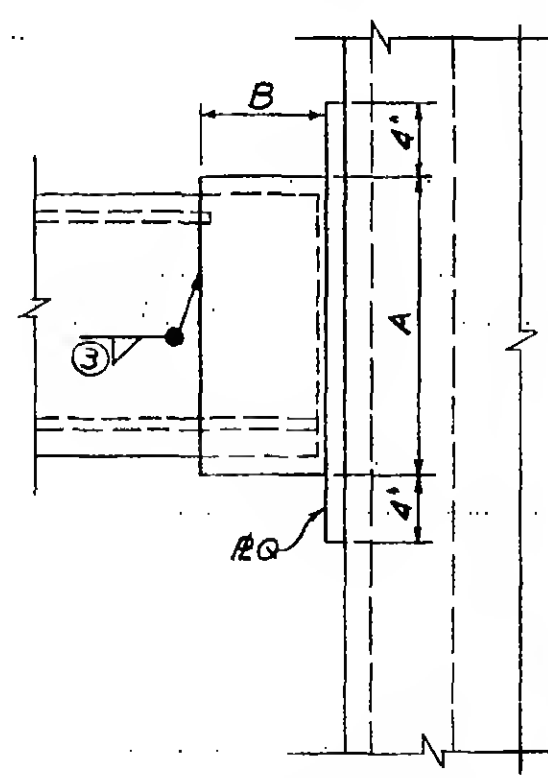
Plan A,G Alt.
use where indicated

Center R.P. as shown
for R.R. unless
previously approved
for fabrication or
for 247G.

Remove erection seat
on columns approved
for fabrication if
necessary to clear
R.P.

Section a-a
(a'-a' similar)

Section b-b



Section c-c



WORTHINGTON, SKILLING, HELLE & JACKSON

Civil & Structural Engineers

PROJECT THE WORLD TRADE CENTER

TITLE SCHEDULE FOR DETAIL 247 A-F

DATE 7-28-67

VISIONS

12-7-67

12-21-67

	247A	247B	247C	270D	247E	247F
PLATES						
P	5/8"	5/8"	3/4"	5/8"	3/4"	5/8"
ANGLES						
S	5 x 3 x 5/16 x 0'-8"	5 x 3 x 5/16 x 0'-8"	5 x 3 x 5/16 x 0'-8"	5 x 3 x 5/16 x 0'-6"	5 x 3 x 5/16 x 0'-8"	5 x 3 x 5/16 x 0'-6"
WELDS						
①	1/4	1/4	1/4	1/4	1/4	1/4
②	5/16	3/8	3/8	3/8	3/8	3/8
③	5/16	3/8	3/8	3/8	3/8	3/8
④	5/16	3/8	3/8	3/8	3/8	5/8
DIMENSIONS						
A	1'-6"	1'-6"	1'-6"	1'-4"	1'-0"	1'-4"
B	0'-11"	0'-11"	0'-11"	0'-11"	0'-11"	0'-6"



G-AB1-53.1

Structural & Civil Engineers

PROJECT

THE WORLD TRADE CENTER

TITLE

TITLE SCHEDULE FOR DETAIL 247 A,C,E,6 ALT.

DATE

DATE 12-21-67

REVISIONS

- * $\mathbb{R}Q$ is used only at specified locations

[illegible]

WORTHINGTON, SKILLING, HELLE & JACKSON

Civil & Structural Engineers

PROJECT THE WORLD TRADE CENTER

TITLE SCHEDULE FOR DETAIL 247

DATE 8-5-67

VISIONS

PLATES

P

247G

38

ANGLES

S

5x3x⁵/₁₆x0'-6"

WELDS

①

1/4

②

1/4

③

1/4

④

1/4

DIMENSIONS

A

1'-4"

B

0'-4"



6-AB1-53.2

PROJECT

THE WORLD TRADE CENTER

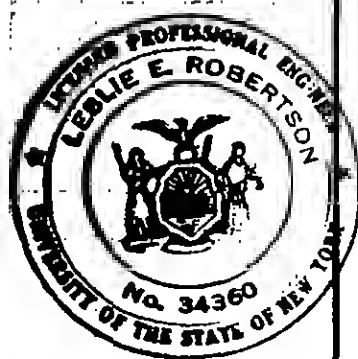
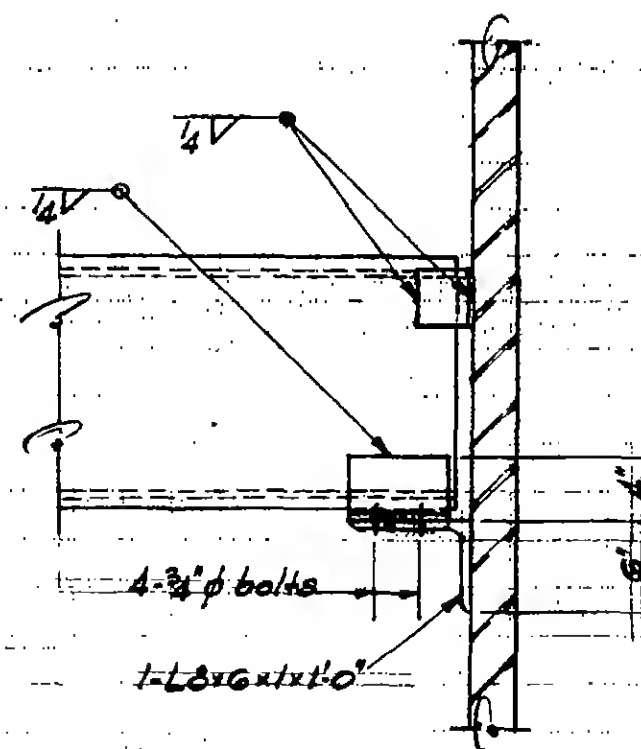
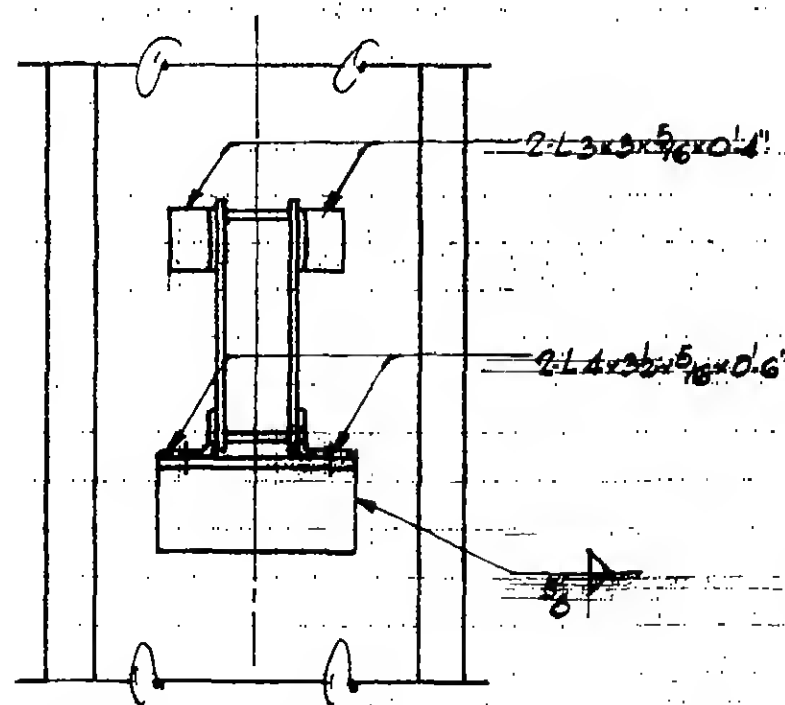
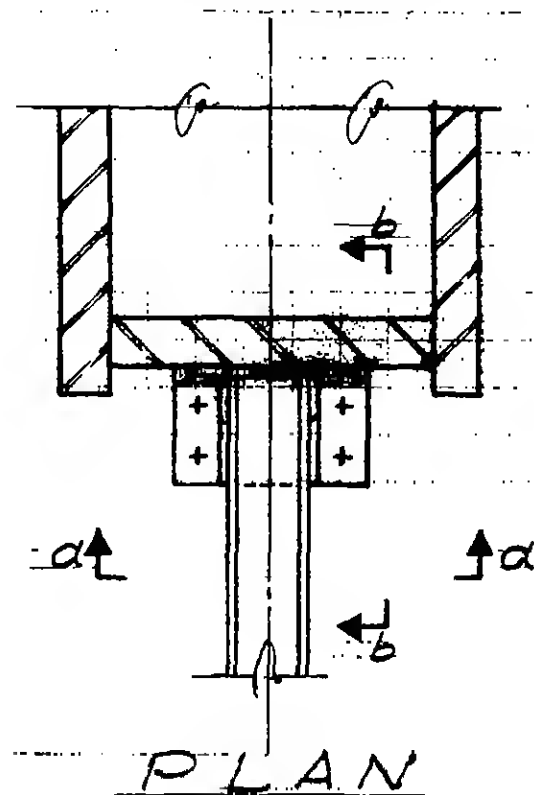
TITLE

CONNECTION DETAILS 24TH

DATE

9-29-67

REVISIONS



PROJECT

THE WORLD TRADE CENTER

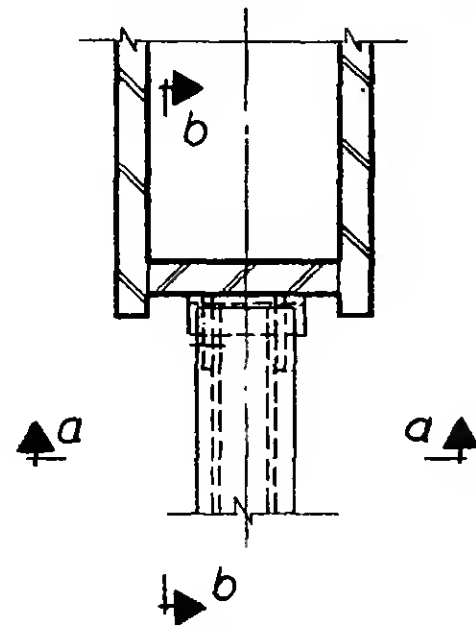
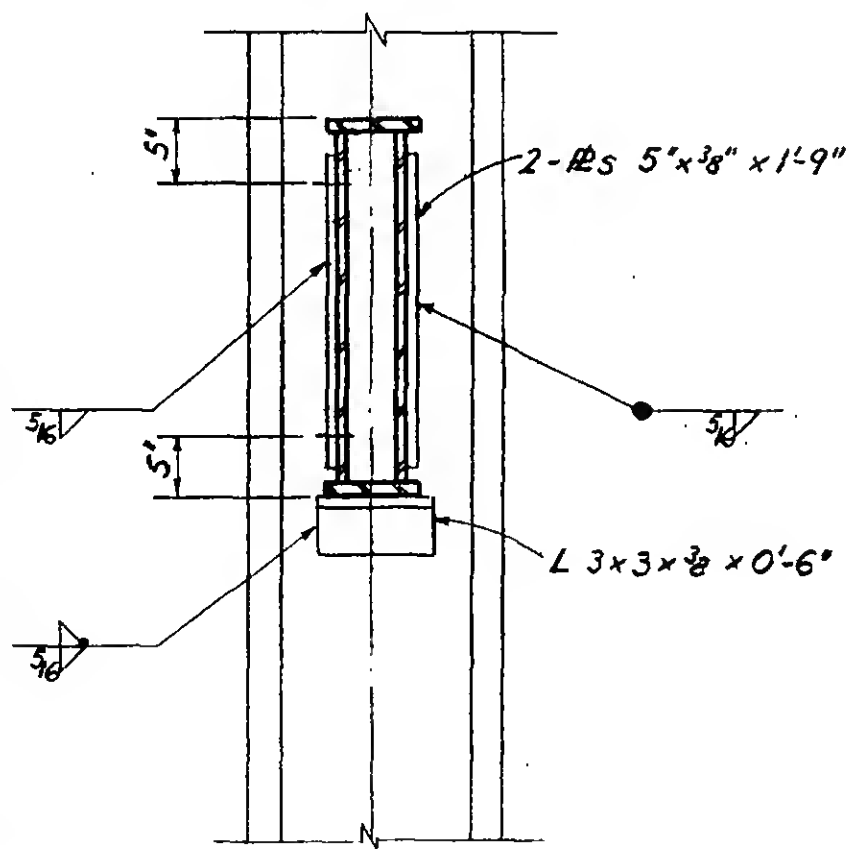
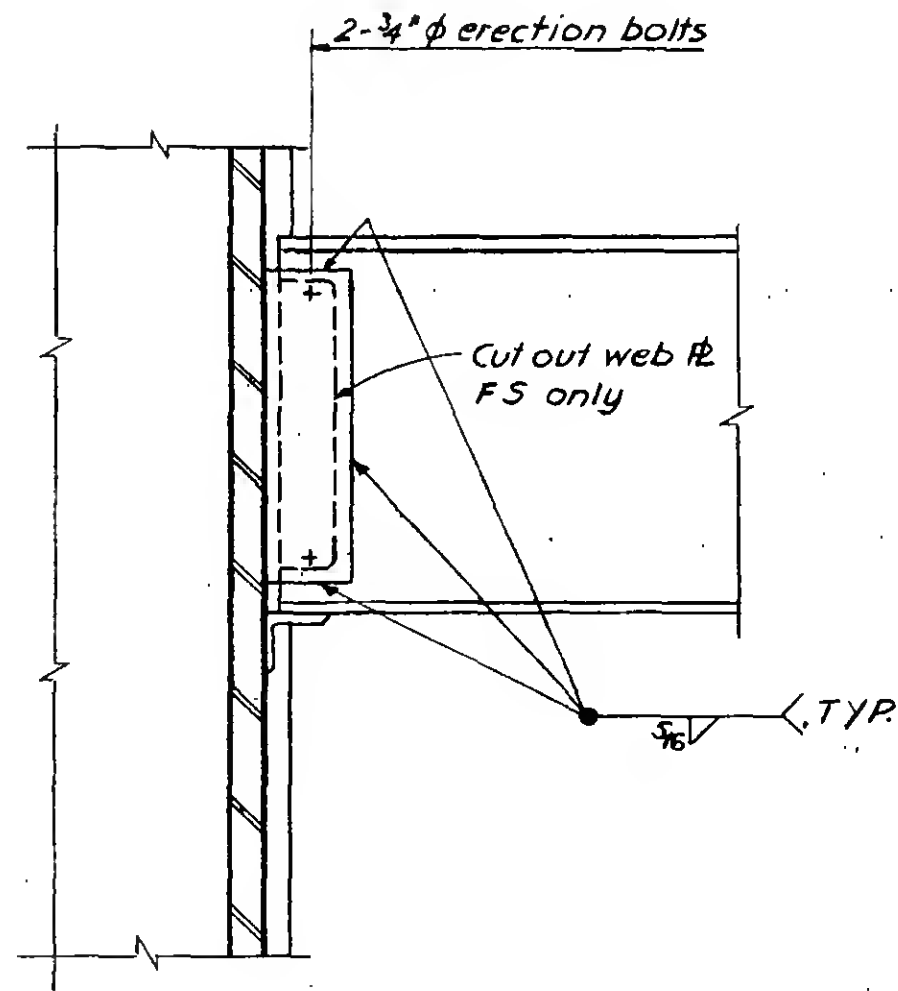
TITLE

CONNECTION DETAIL 2471

DATE

1-24-68

REVISIONS

PlanSection a-aSection b-b

6-ABI-53.4



WORTHINGTON, SKILLING, HELLE & JACKSON

Civil & Structural Engineers

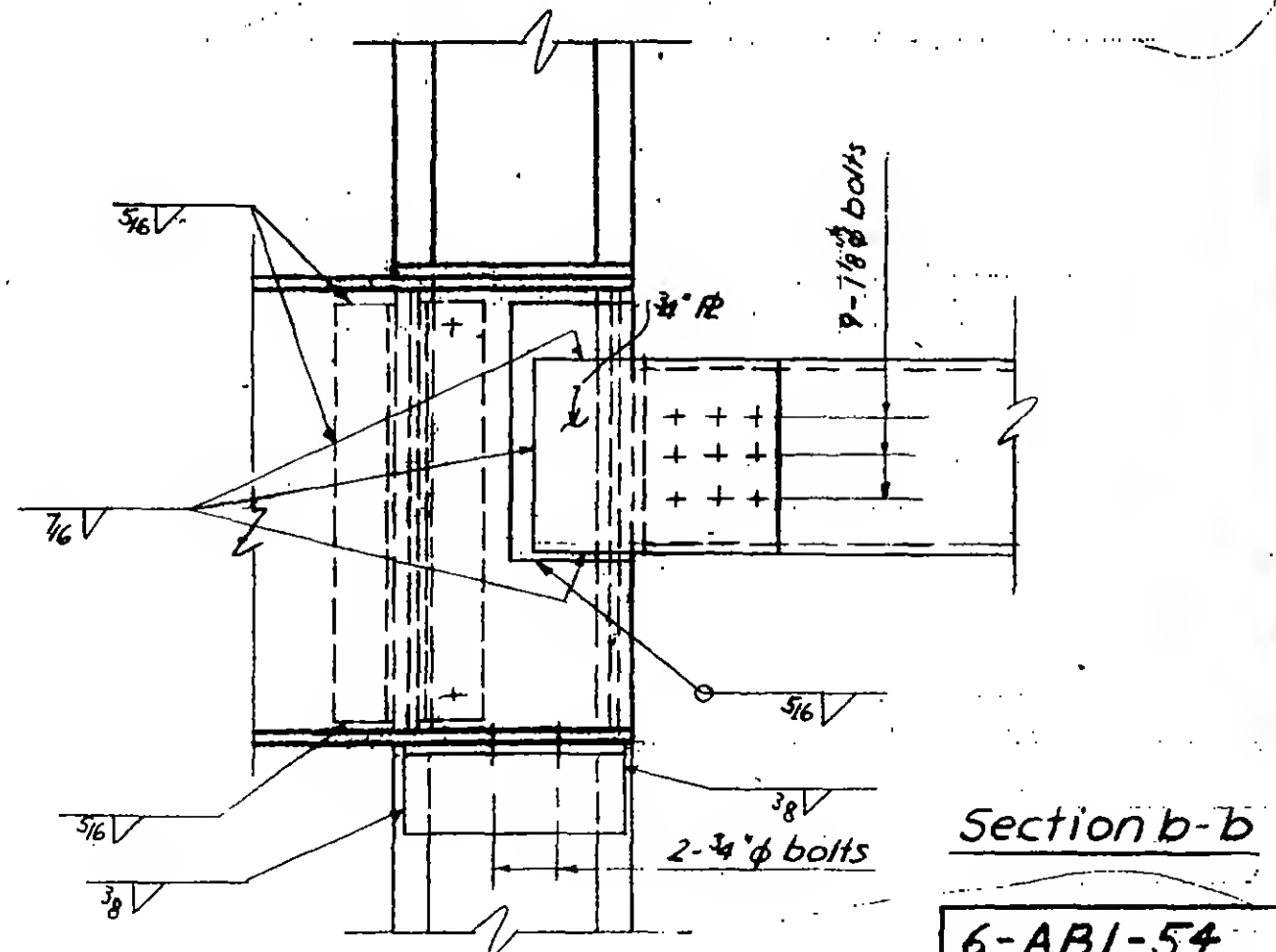
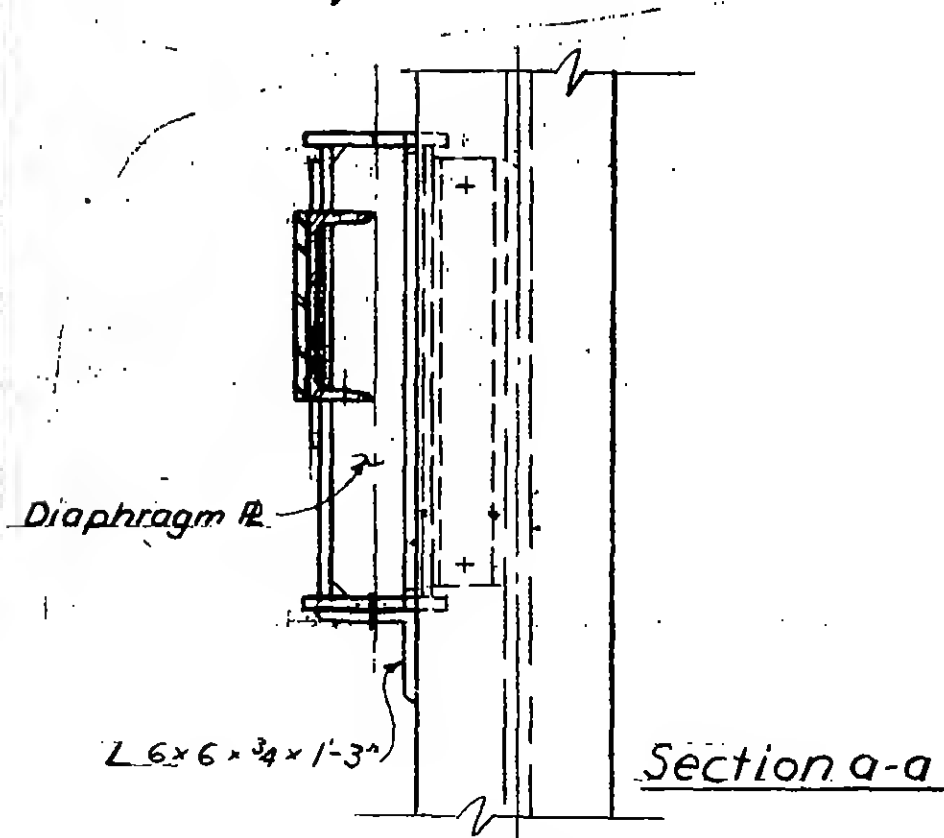
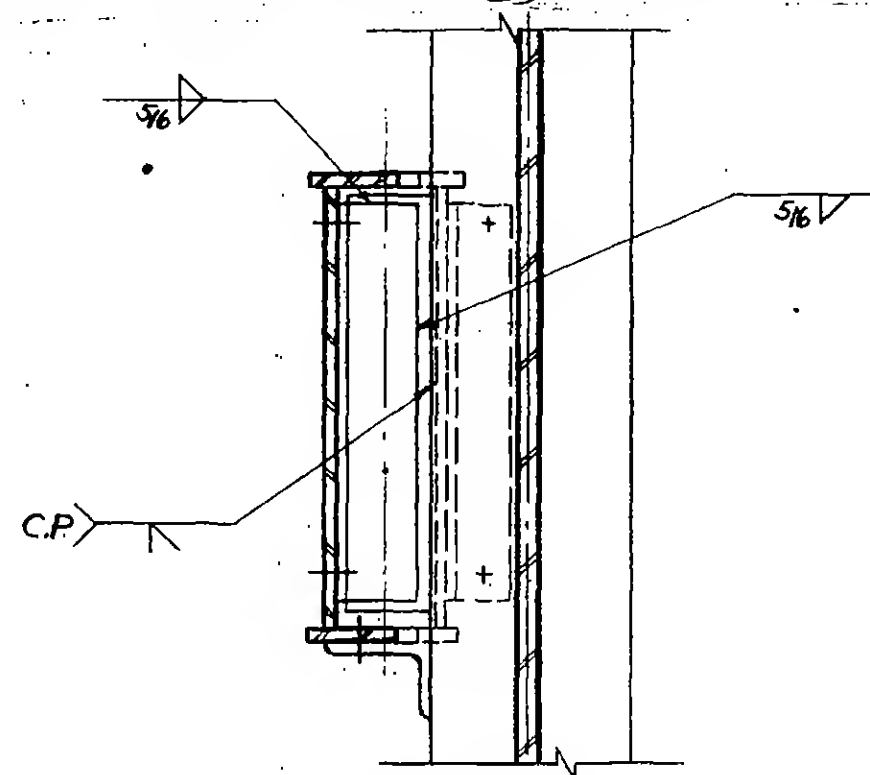
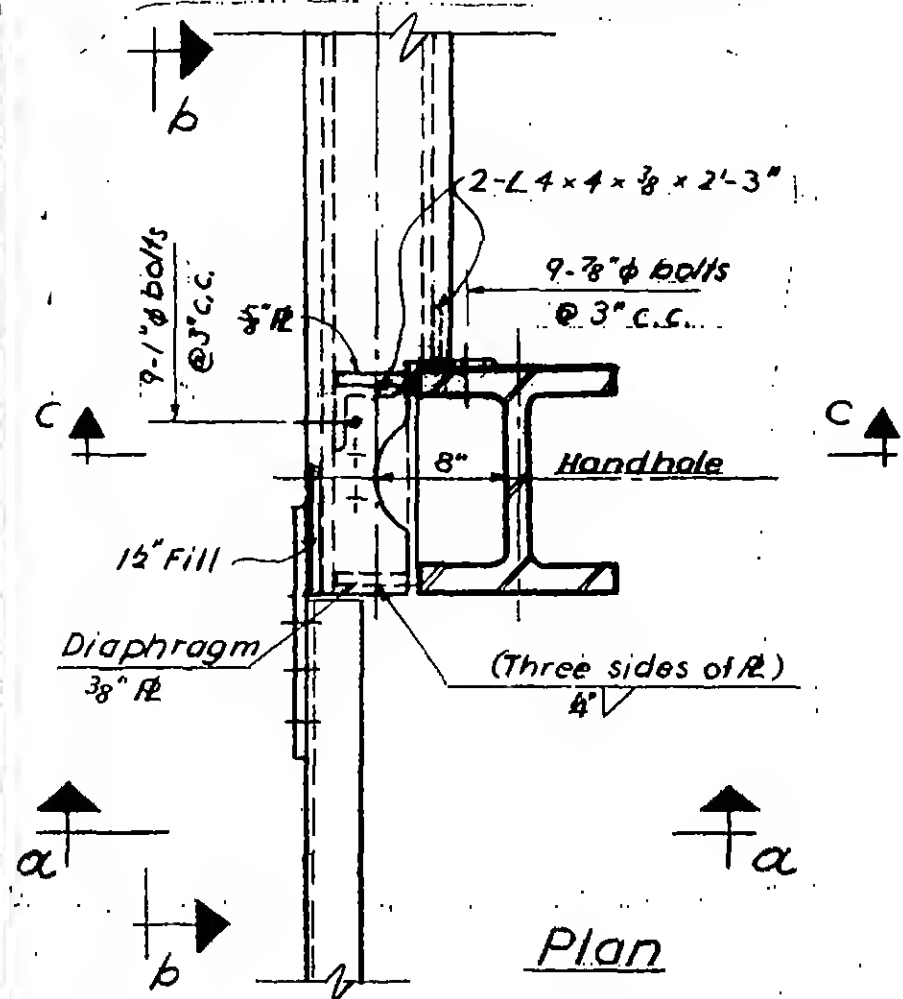
PROJECT **THE WORLD TRADE CENTER**

TITLE **CONNECTION DETAIL 248A**

DATE **6-30-67**

REVISIONS

10-5-67



6-ABI-54

PROJECT

THE WORLD TRADE CENTER

TITLE

SCHEDULE FOR DETAIL 249 A-C

DATE

7-28-67

REVISIONS

7-15-67

11-10-67

	249A	249B	249C			
PLATES						
P	7/8"	7/8"	7/8"			
Q	1"	1/2"	1/2"			
R	1"	1/2"	1/2"			
ANGLES						
T	4x3 1/2 x 3/8	4x3 1/2 x 5/16	4x3 1/2 x 5/16			
BOLTS						
K	5-7/8"φ	5-7/8"φ	5-7/8"φ			
L	3-1 1/8"φ	3-1"φ	3-1"φ			
WELDS						
①	3/8	3/8	3/8			
②	3/8	3/8	3/8			

6-ABI-55.1

PROJECT THE WORLD TRADE CENTER

TITLE CONNECTION DETAIL

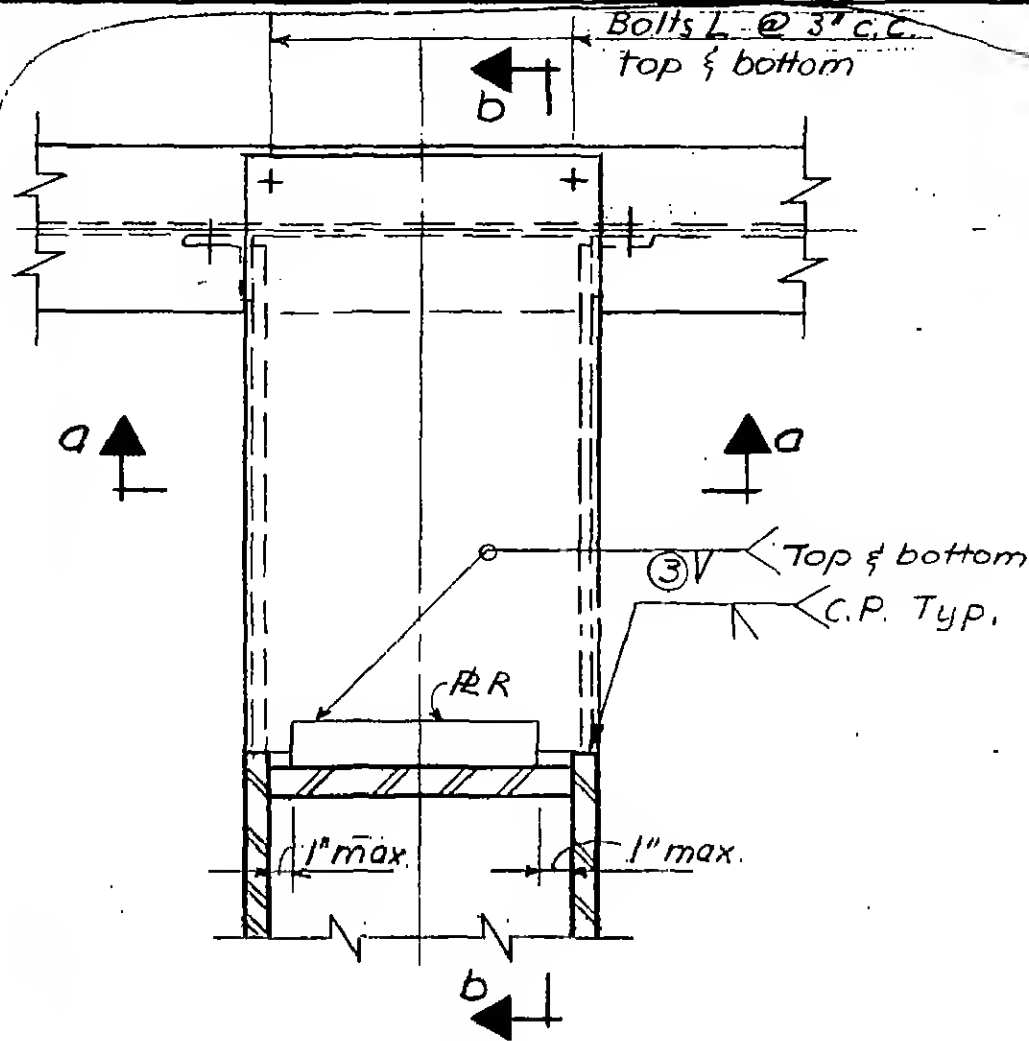
251 A, B, D

DATE 5-22-67

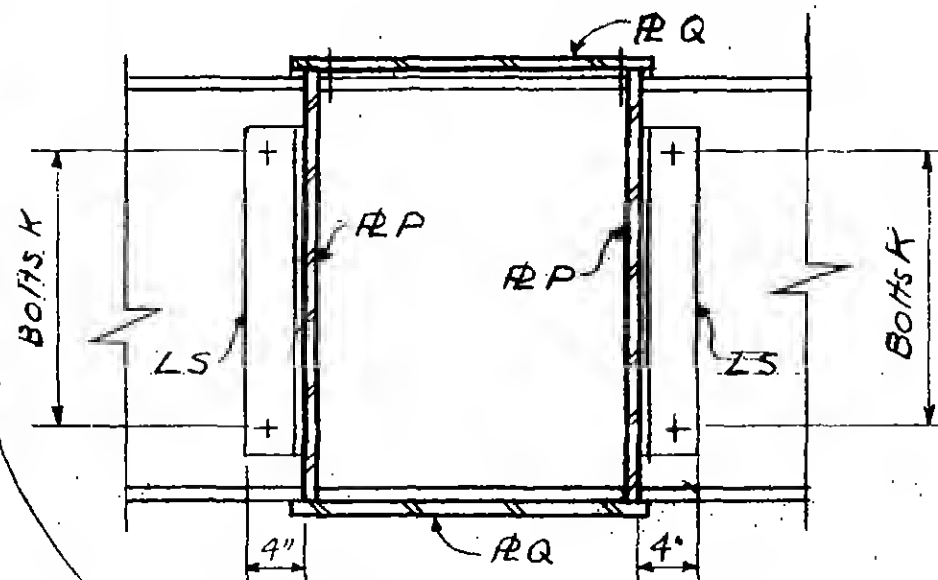
REVISIONS

8-14-67

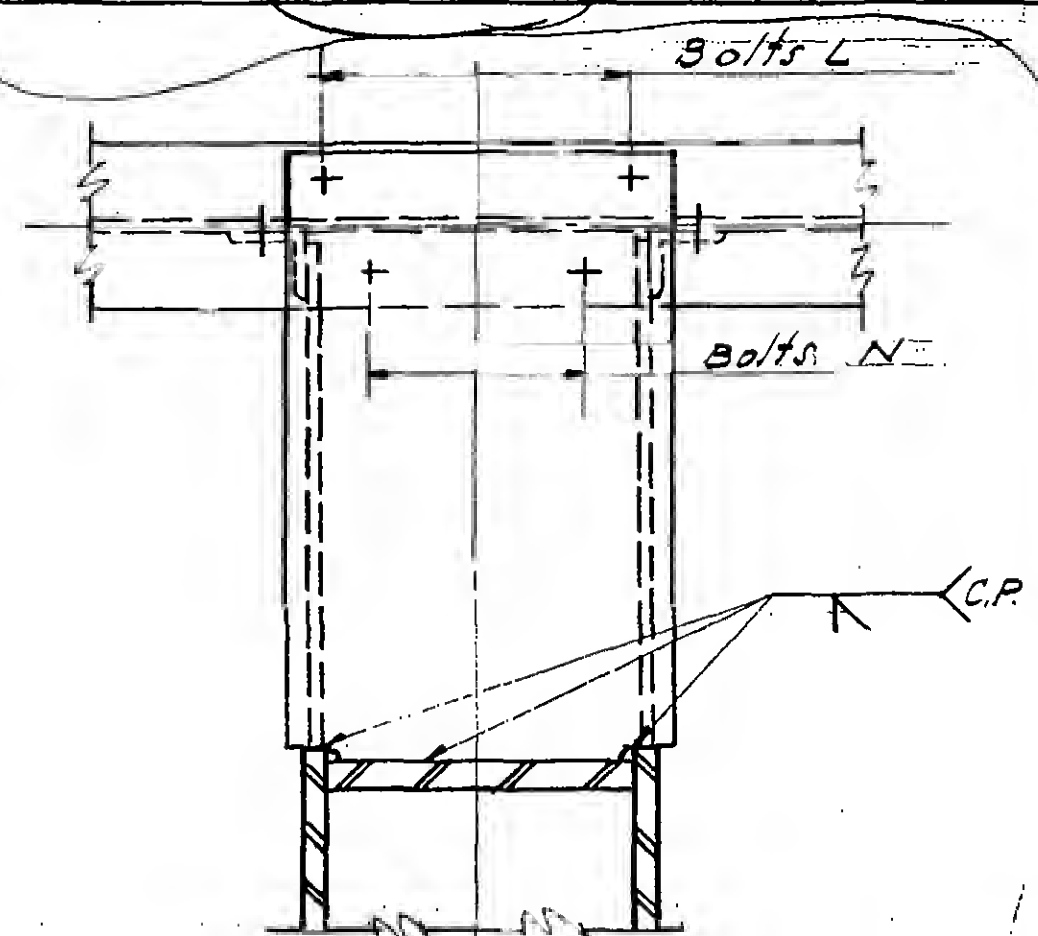
9-15-67



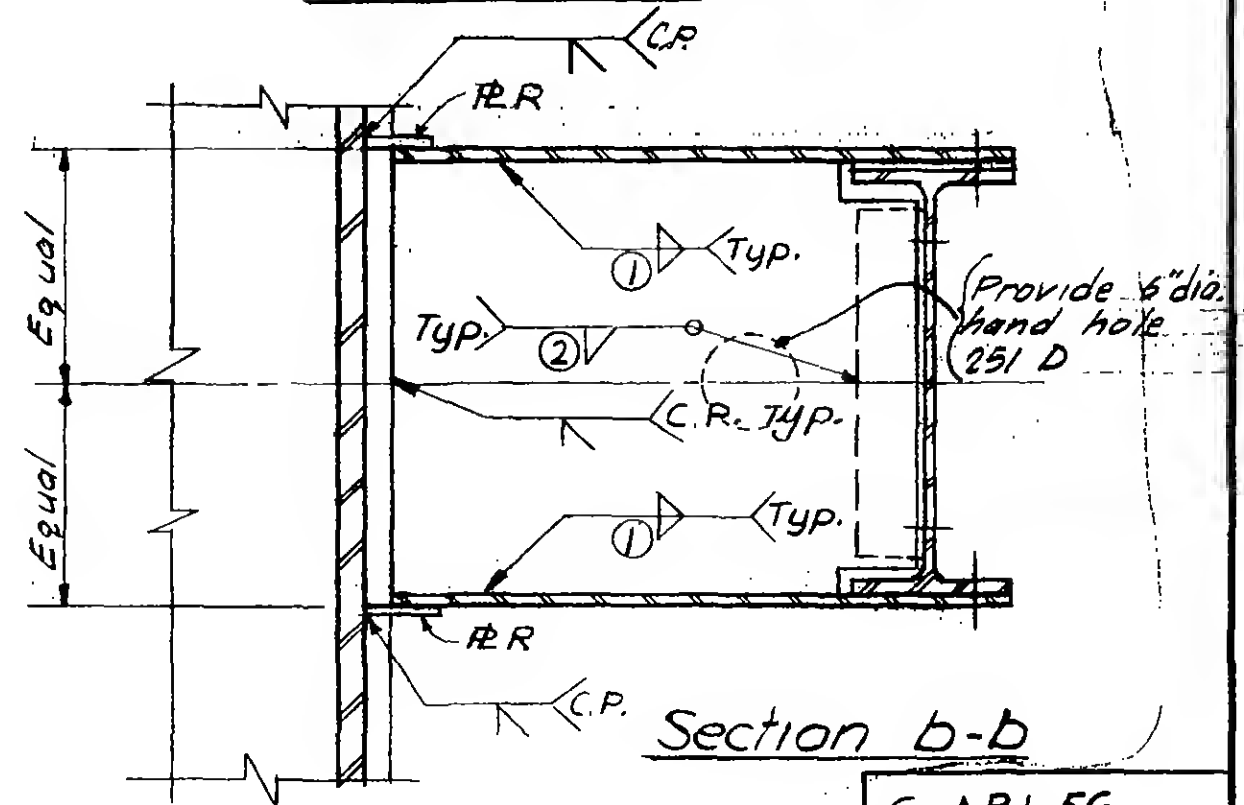
Plan 251 A & B



Section a-a

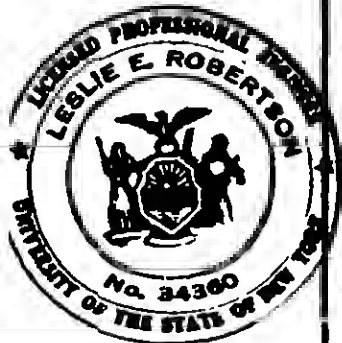


Plan 251 D

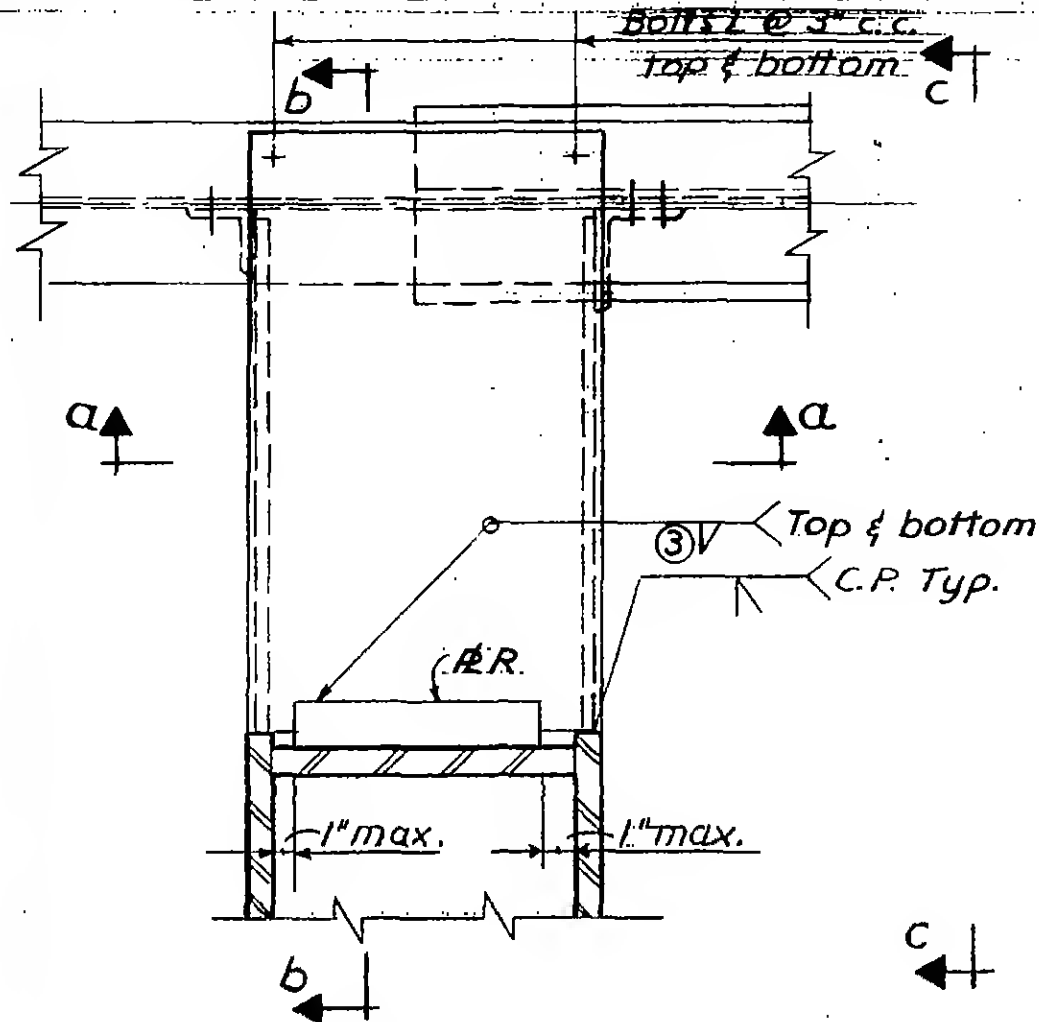


Section b-b

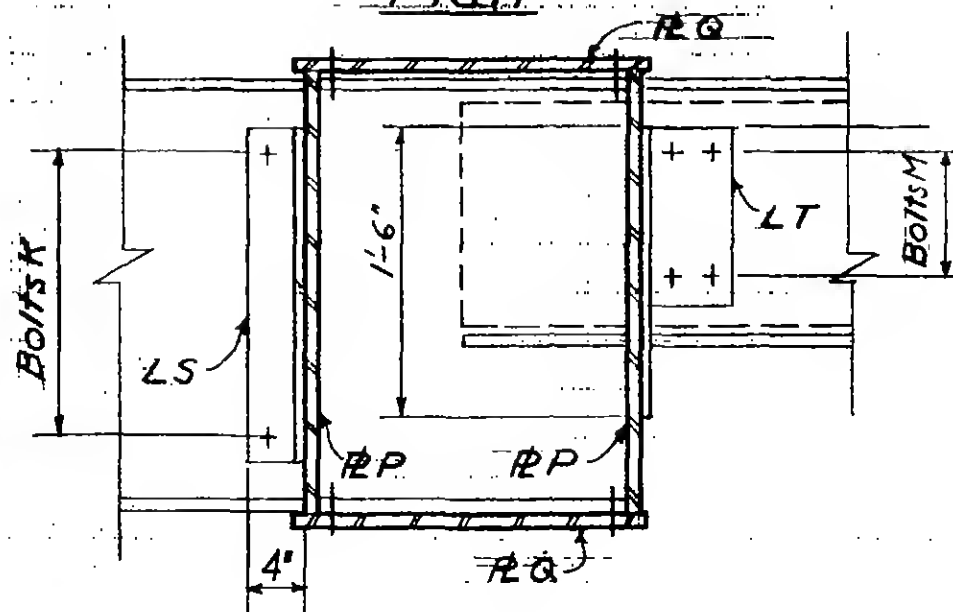
6-ABI-56



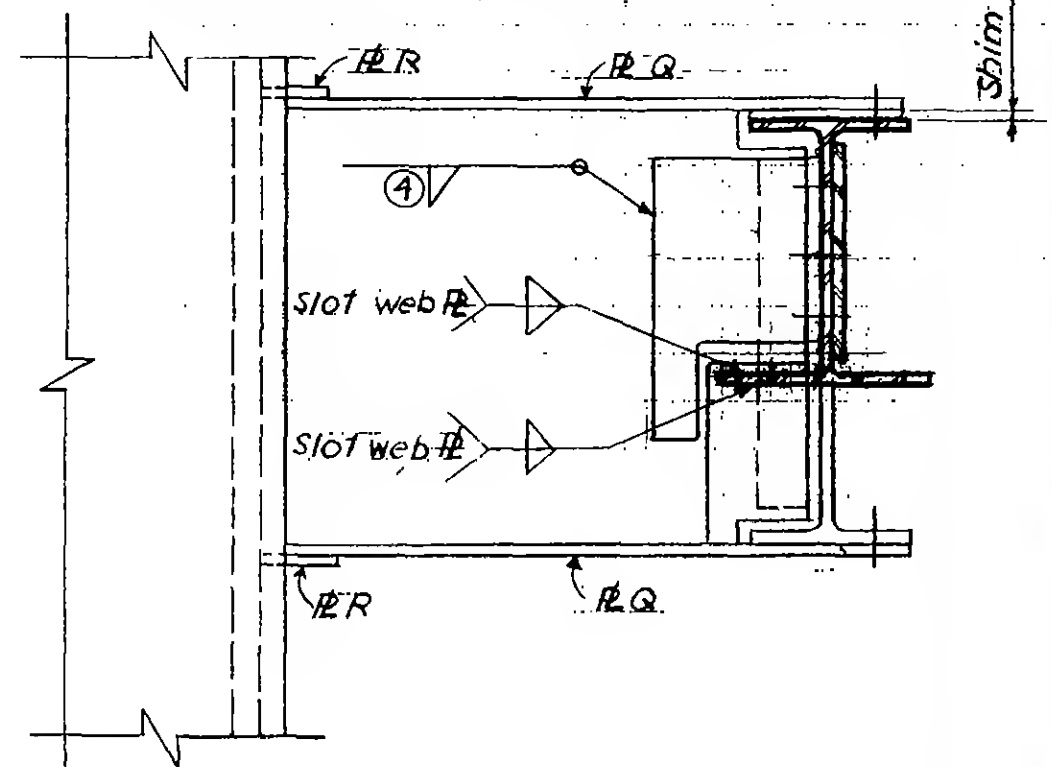
REVISIONS



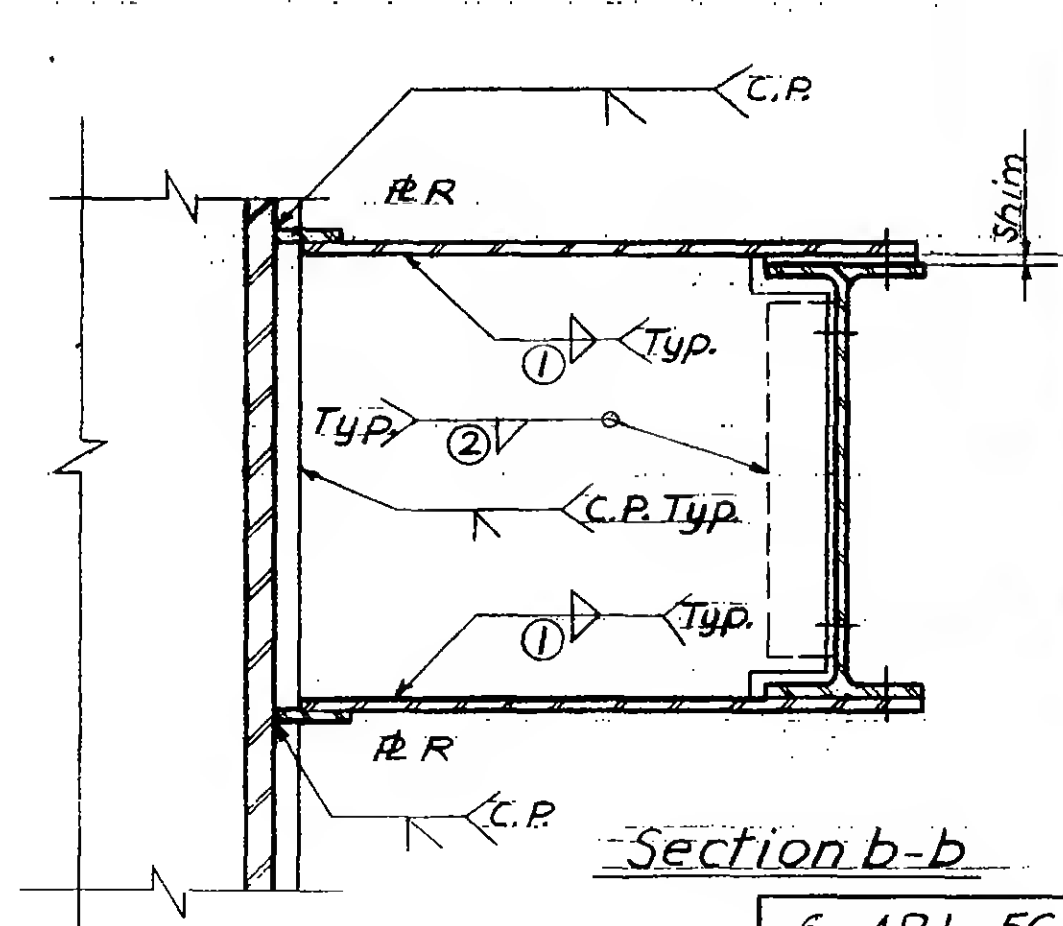
Plan



Section a-a



Section b-b



Section b-b



Structural & Civil Engineers

PROJECT

THE WORLD TRADE CENTER

TITLE

TITLE SCHEDULE FOR DETAIL 25/ A, B, C, D, E, F, G

DATE _____

DATE 8-14-67

REVISIONS

9-15-67

10-2-67

	251 A	251 B	251 C	251 D	251 E, G	251 F,
PLATES						
P	1/2"	5/8"	1/2"	3/4	1/2	1/4"
Q	1/2"	5/8"	1/2"	5/8	5/8	5/8"
R	6" x 5/8"	6" x 7/8"	6" x 5/8"	—	1/2	—
ANGLES						
S	6 x 4 x 9/16 x 1'-8 1/2"	6 x 4 x 9/16 x 1'-8 1/2"	6 x 4 x 9/16 x 1'-8 1/2"	4 x 3 1/2 x 3/8	—	—
T	—	—	8 x 8 x 1	—	—	—
BOLTS						
K	7 - 1" ϕ	7 - 1" ϕ	7 - 1" ϕ	4 - 7/8" ϕ	2 - 3/4" ϕ	3 - 3/4" ϕ
L	6 - 3/4" ϕ	6 - 3/4" ϕ	6 - 3/4" ϕ	5 - 1 1/8" ϕ (A490)	4 - 3/4" ϕ	4 - 3/4" ϕ
M	—	—	8 - 1 1/8" ϕ	—	—	—
N	—	—	—	4 - 1 1/8" ϕ (490)	—	—
WELDS						
①	1/2	5/8	9/16	5/16	5/16"	5/16"
②	1/2	1/2	9/16	5/16	—	—
③	1/2	5/8	1/2	—	—	—
④	—	—	7/8	—	—	—



6-AB1-56.2

PROJECT

THE WORLD TRADE CENTER

TITLE

CONNECTION DETAIL

251 L, F, G, J, L, M

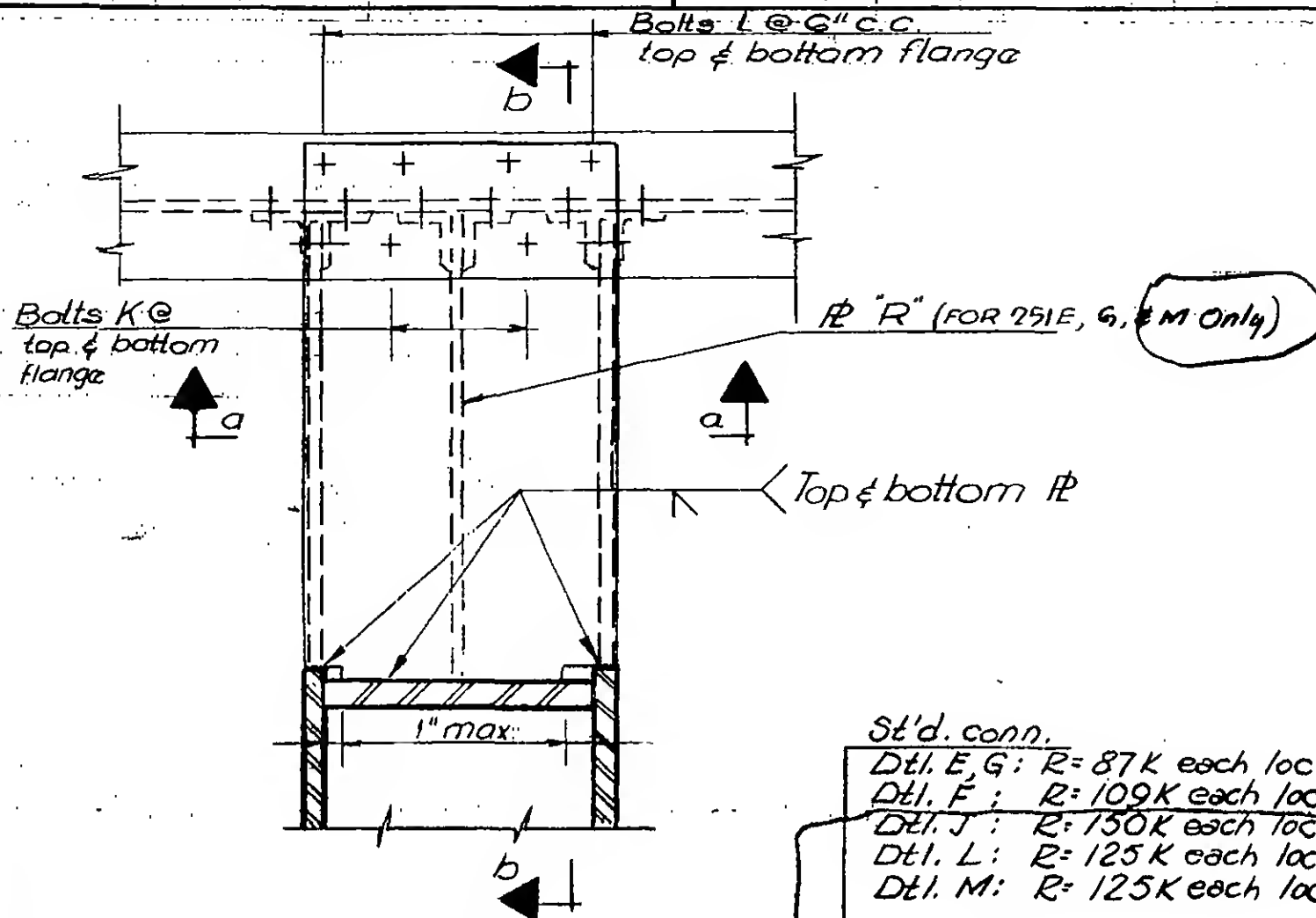
DATE

10-2-67

REVISIONS

-17-67

9-18-68



Plan

St'd. conn.

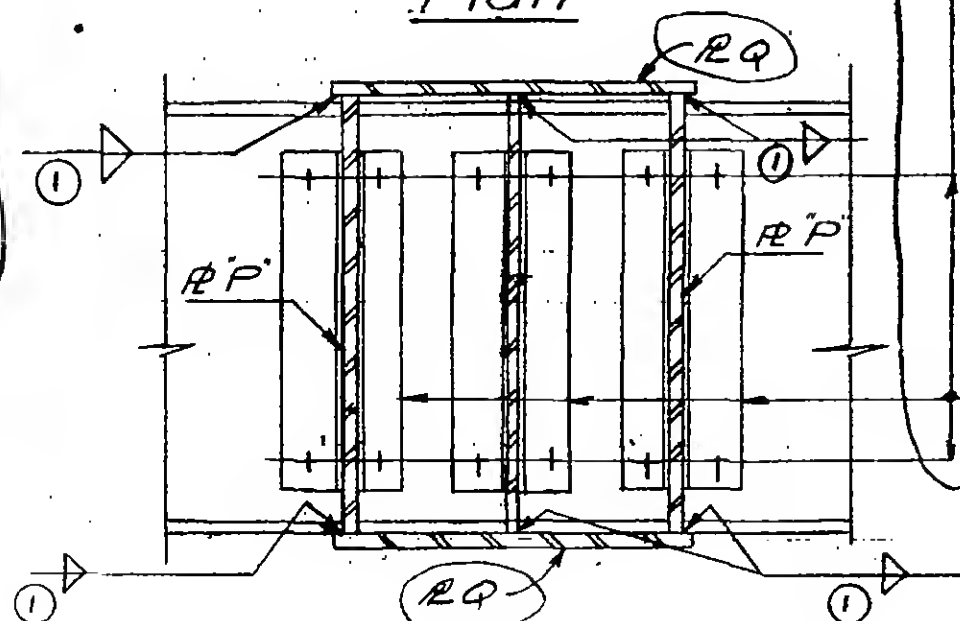
Dtl. E G: R= 87K each loc.

Dtl. F: R= 109K each loc.

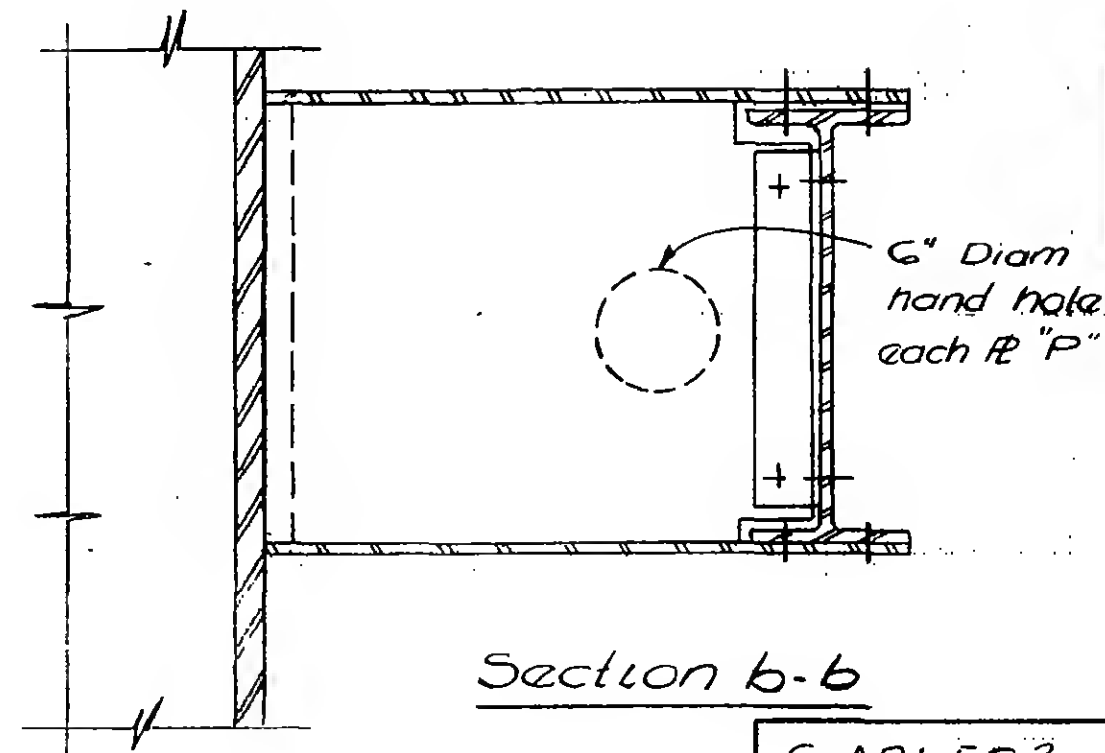
Dtl. J: R= 150K each loc.

Dtl. L: R= 125K each loc.

Dtl. M: R= 125K each loc.



Section a-a



6-ABI-56.3



PROJECT

THE WORLD TRADE CENTER

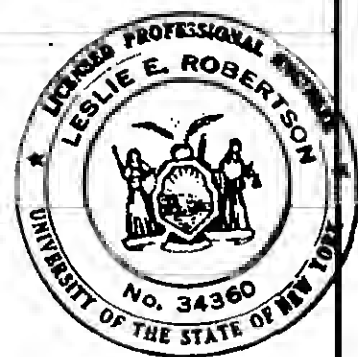
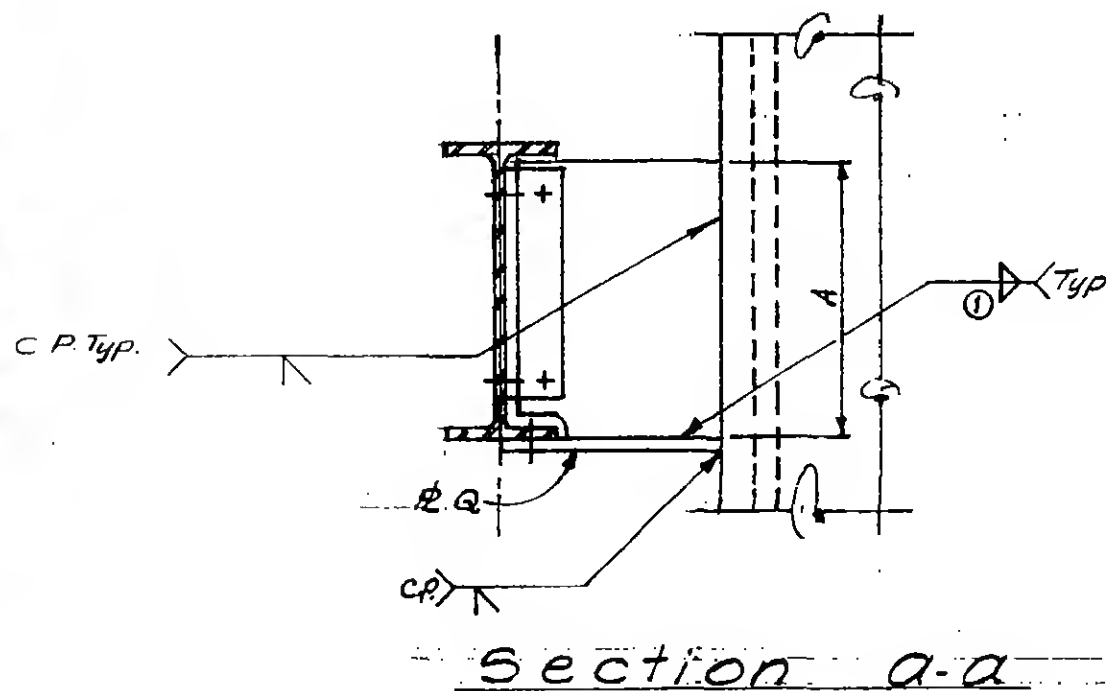
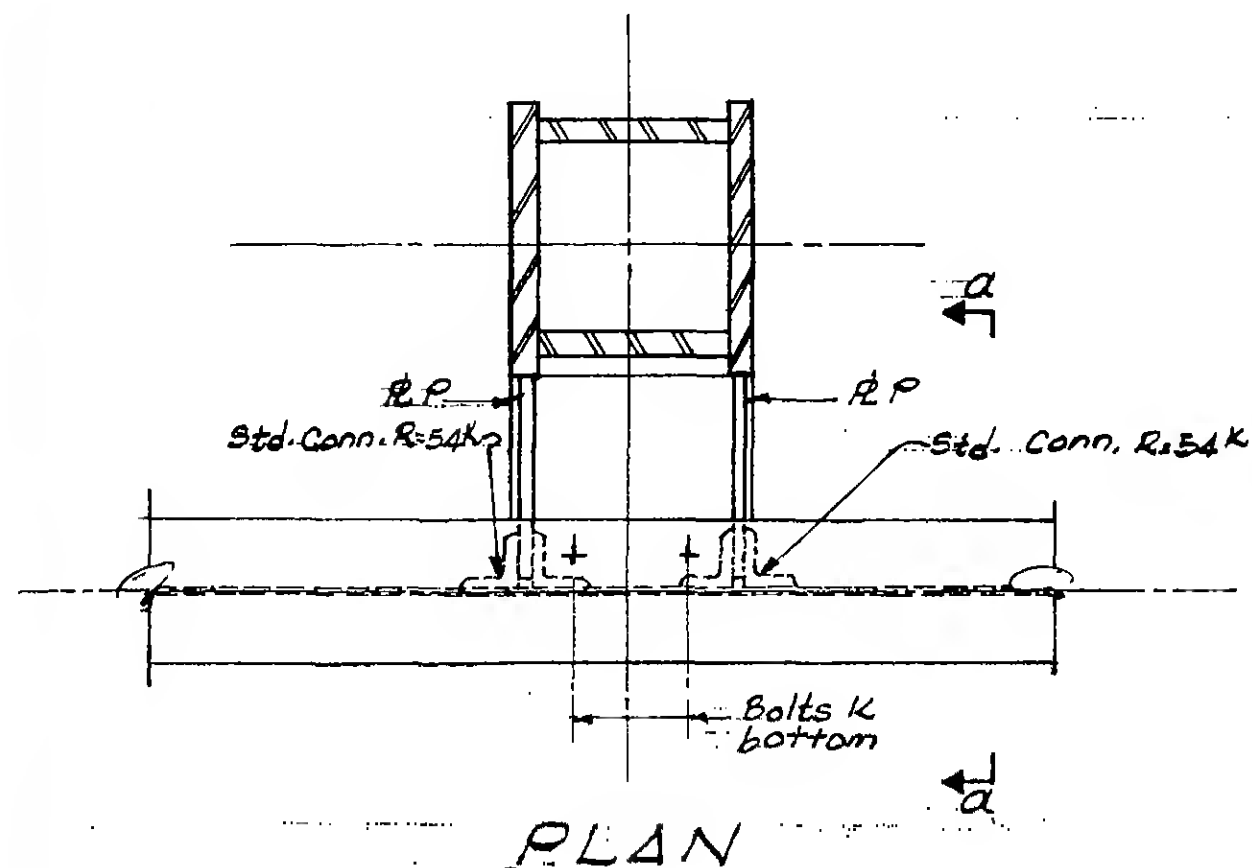
TITLE

CONNECTION DETAIL 251 H

DATE

10-2-67

REVISIONS



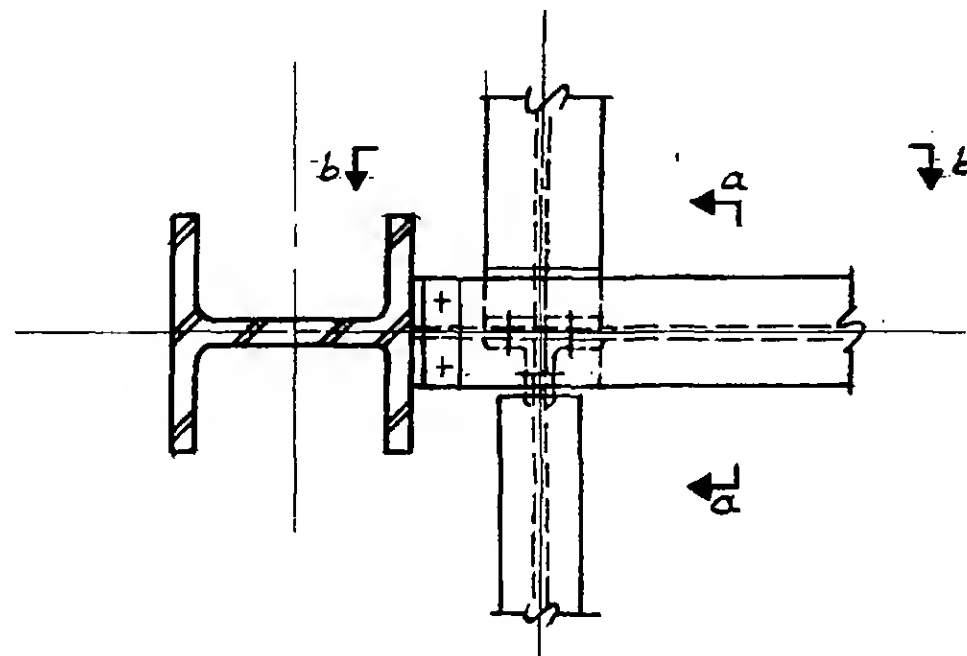
PROJECT THE WORLD TRADE CENTER

TITLE CONNECTION DETAIL 252 A

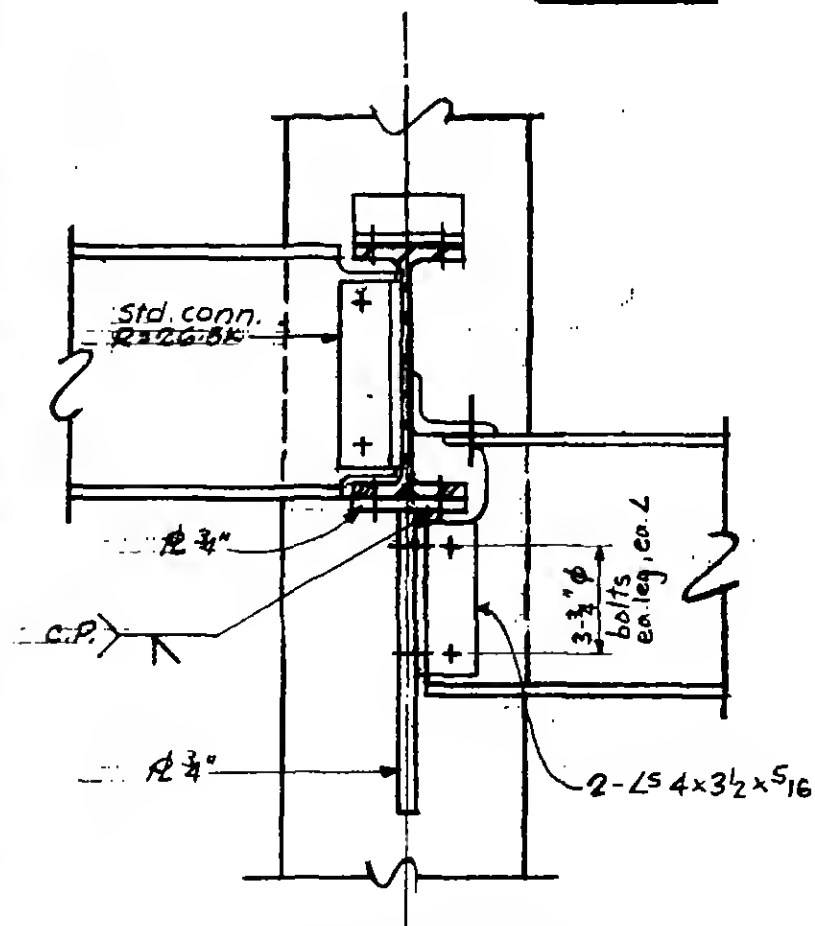
DATE 6-5-67

REVISIONS

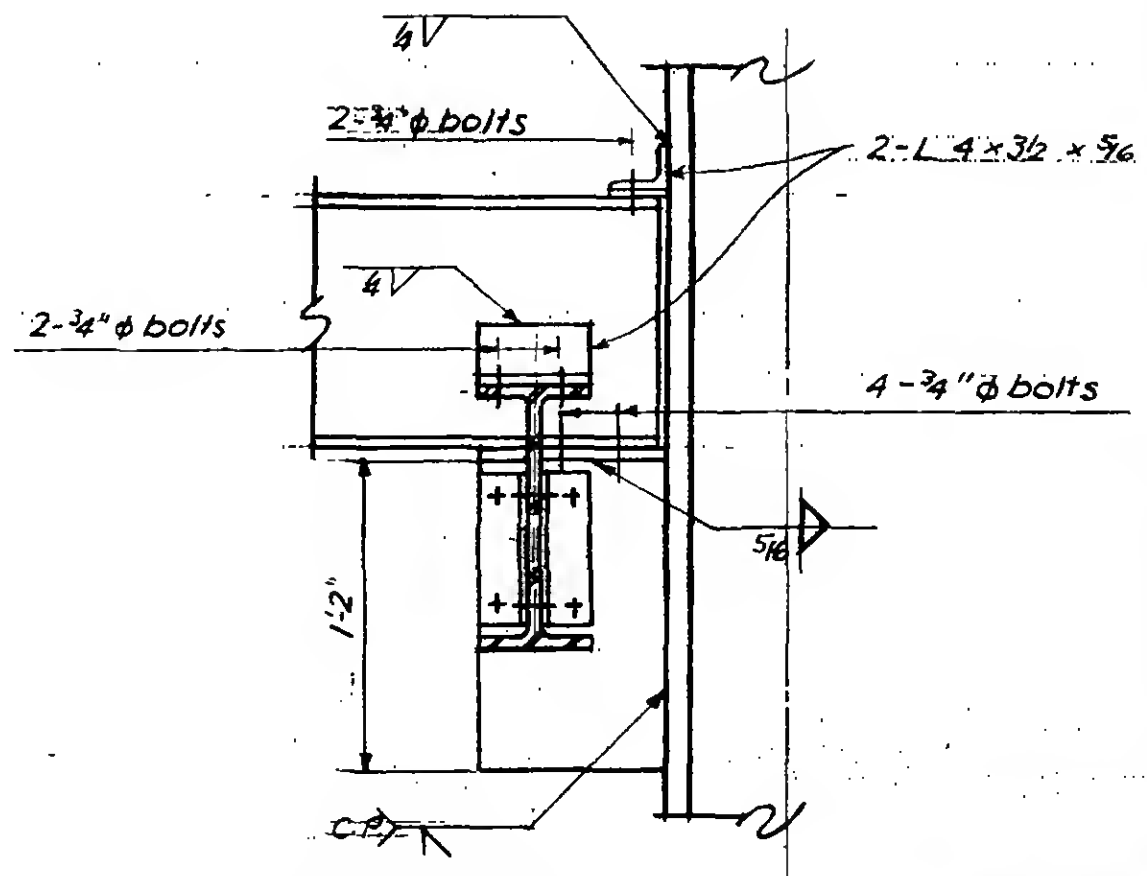
10-2-67



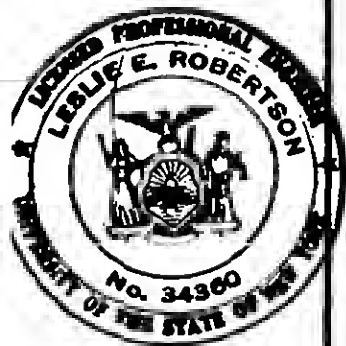
PLAN



SECTION a-a

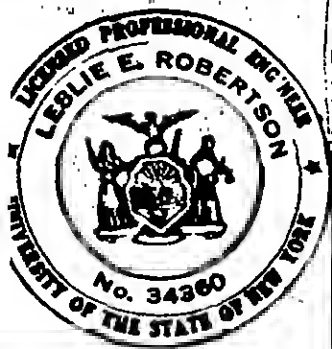
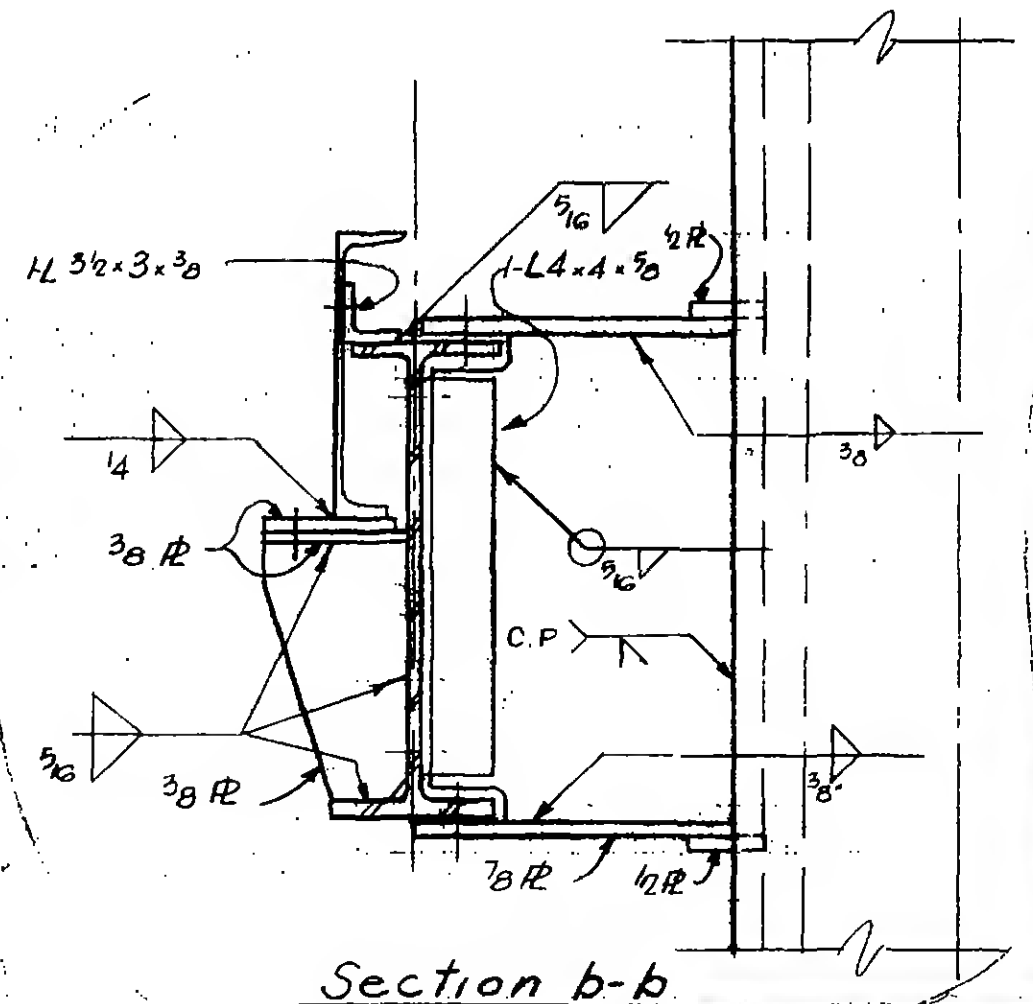
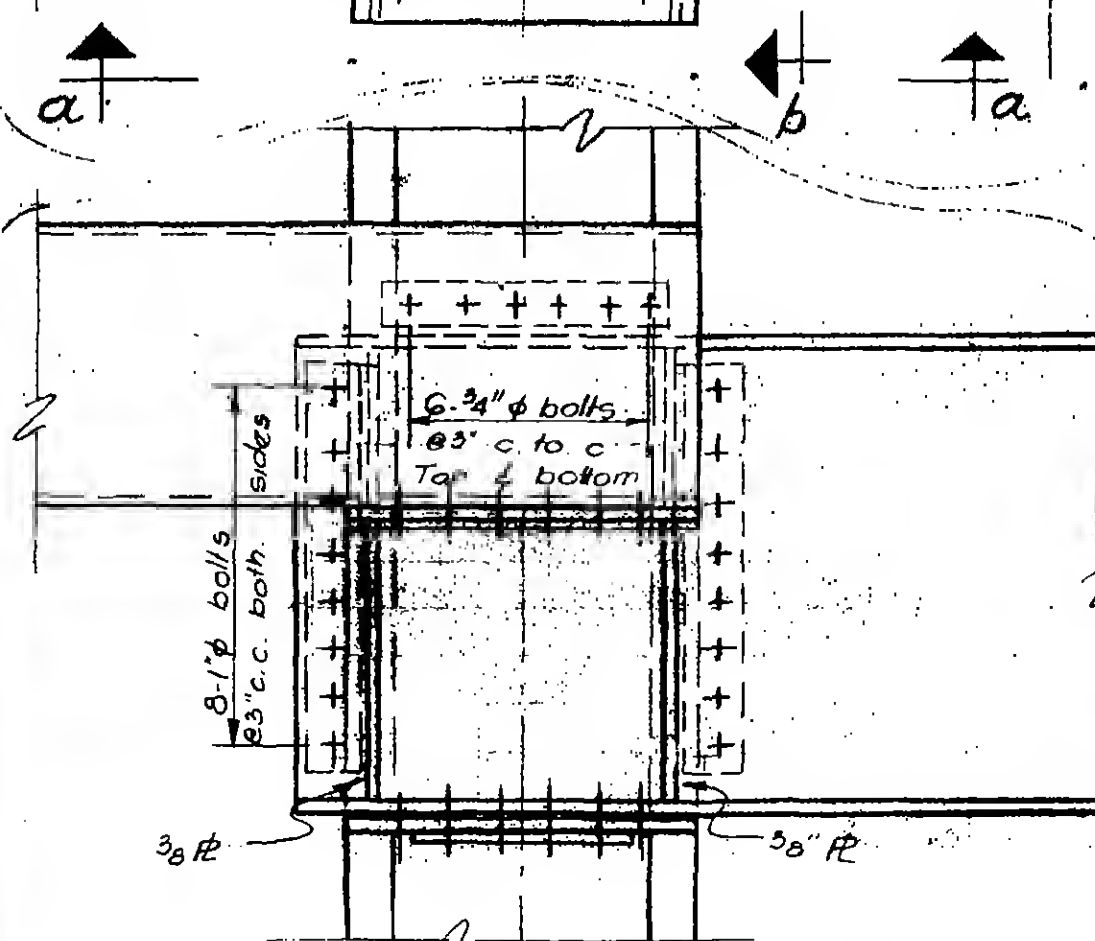
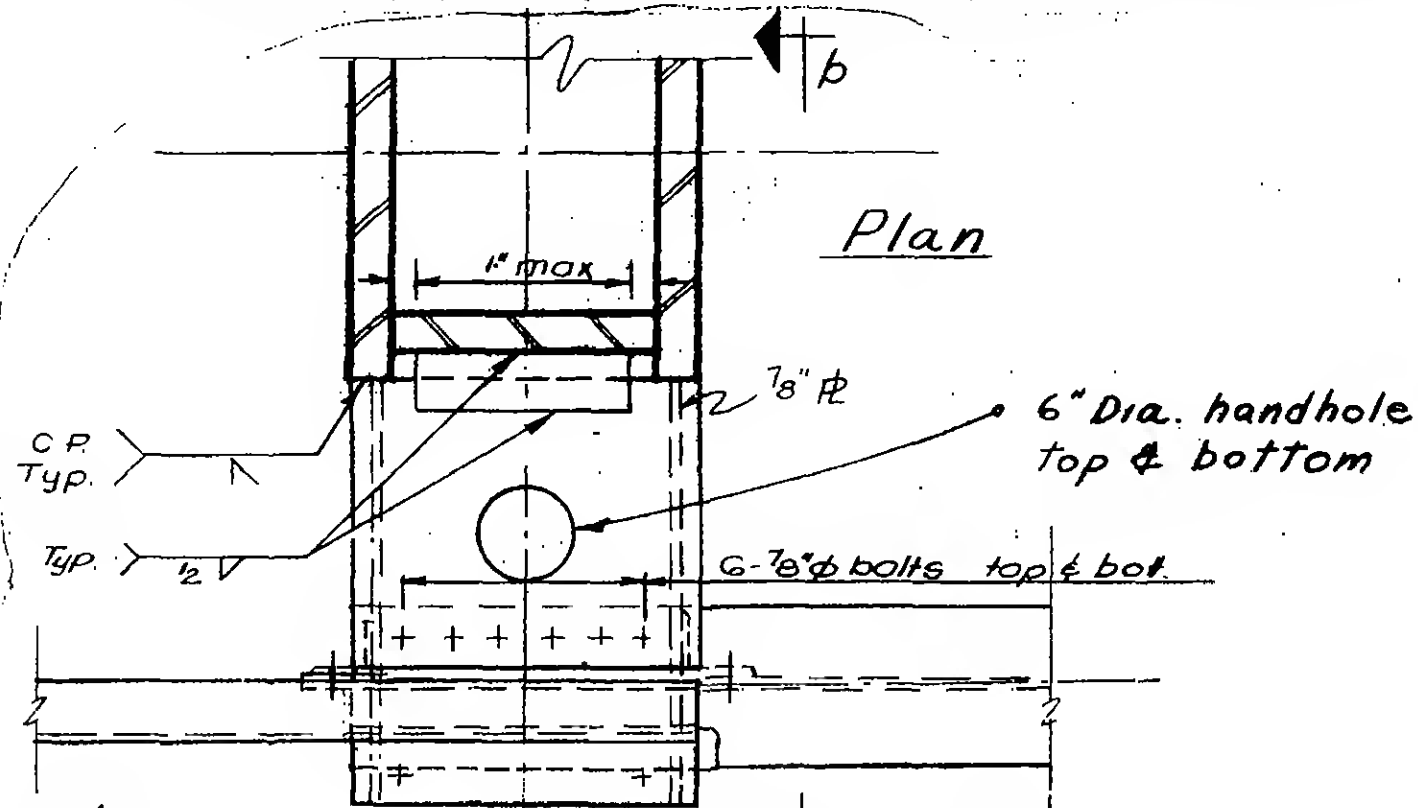


SECTION b-b



REVISIONS

10-5-67



PROJECT

THE WORLD TRADE CENTER

TITLE

CONNECTION

DETAIL

254 A, B, C, D, E, F

DATE

7-1-67

REVISIONS

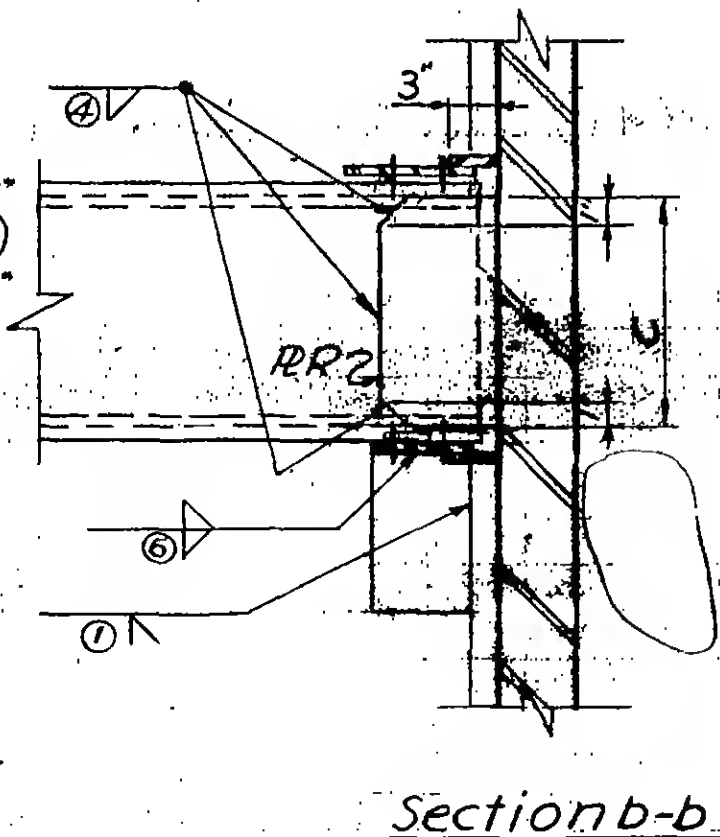
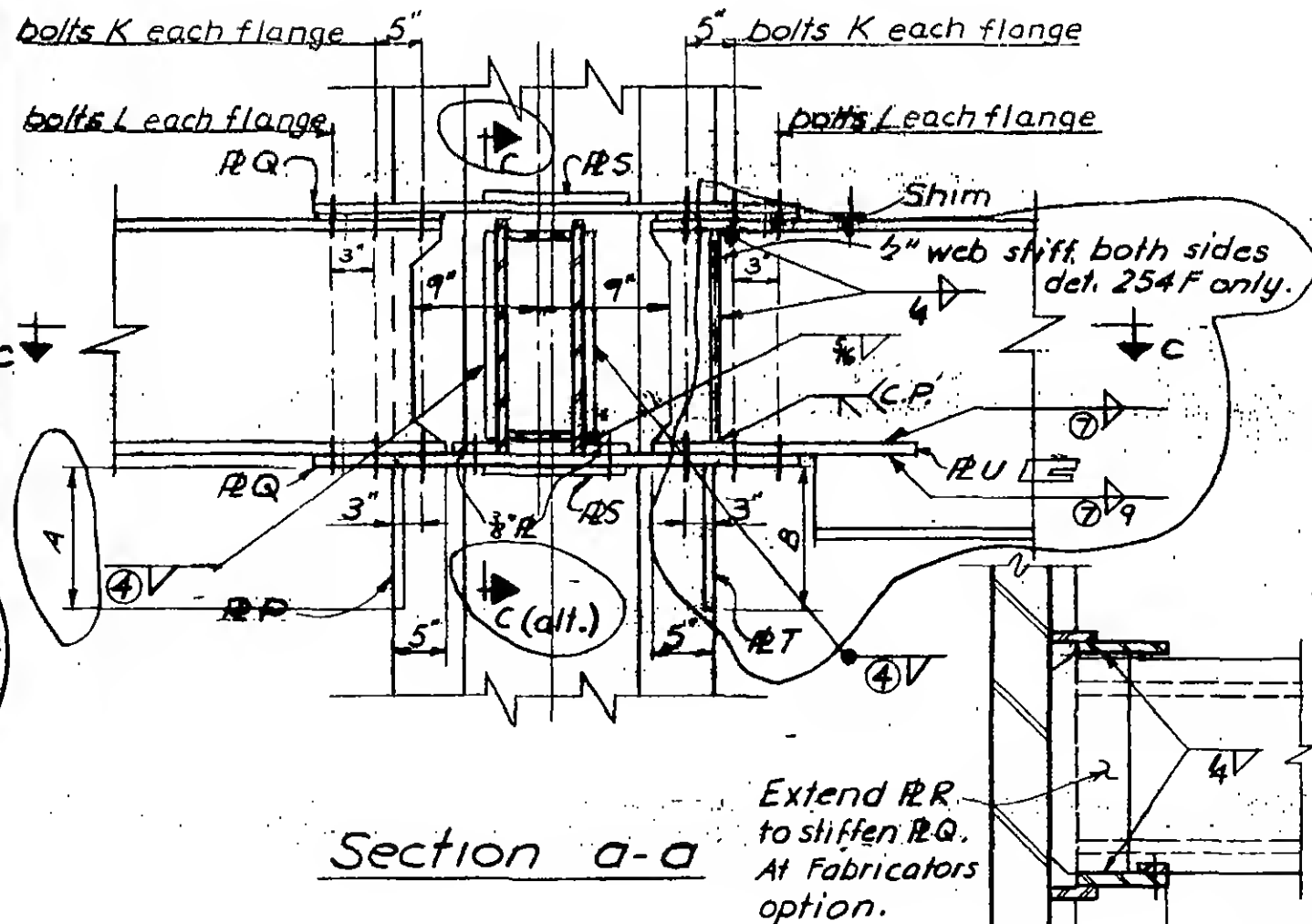
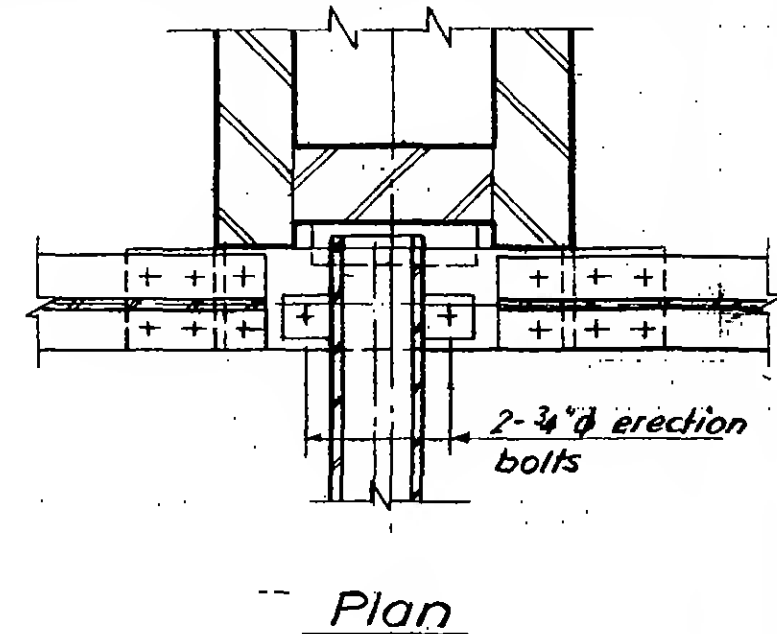
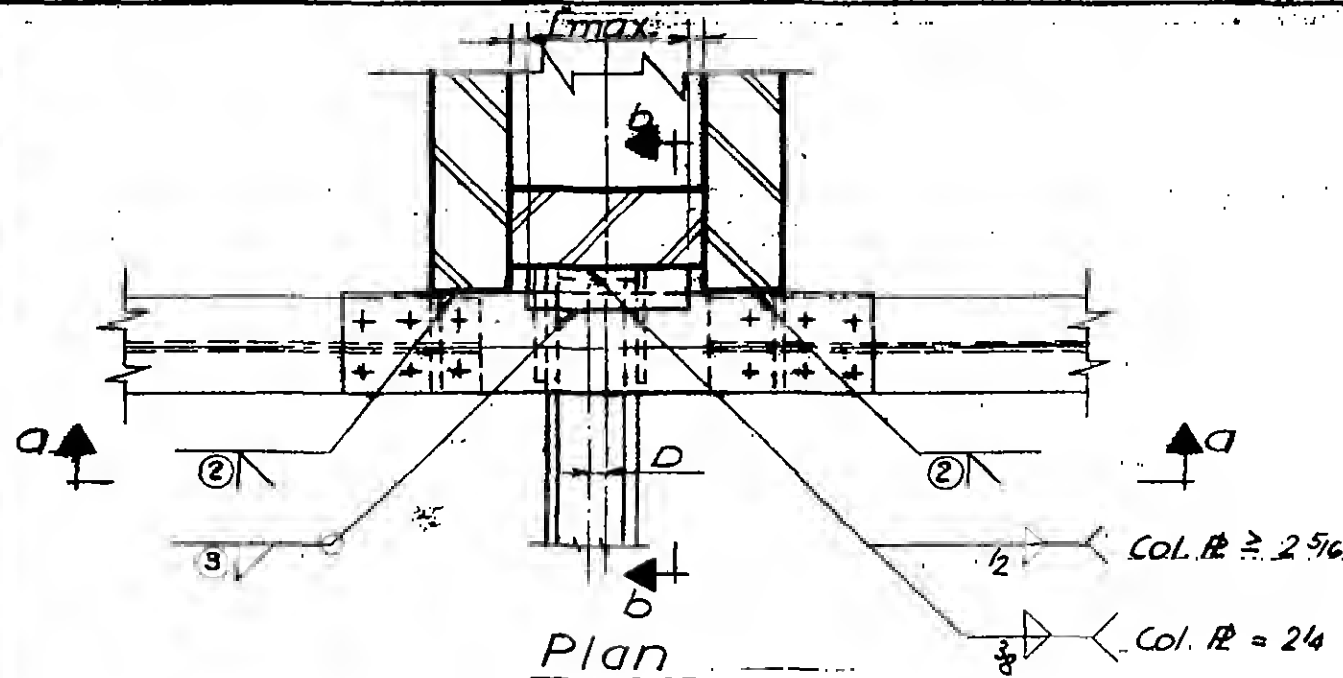
5-9-67

7-28-67

9-15-67

11-14-67

5-6-68



Section c-c (Alternate)

Details 254 A, B, C, D, E

G-ABI-59



SKILLING - HELLE - CHRISTIANSEN - ROBERTSON

Structural & Civil Engineers

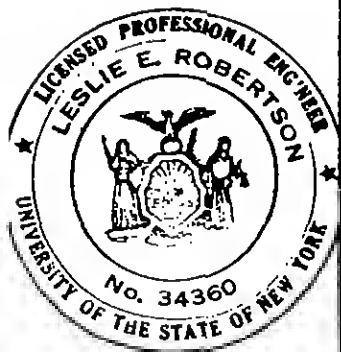
PROJECT THE WORLD TRADE CENTER

TITLE SCHEDULE FOR DETAIL 254 A, B, C, F

DATE 7-28-67

REVISIONS

	254 A	254 B	254 C	254 F	
PLATES					
P	3/8"	3/8"	3/8"	3/8"	
Q	1/2"	1/2"	1/2"	1/2"	X
R	4 x 5/8 x 1'-2"	4 x 3/4 x 1'-2"	4 x 5/8 x 1'-2"	4 x 3/4 x 1'-2"	
S	—	1/2"	1/2"	1/2"	
T	3/8"	3/8"	3/8"	3/4"	
U	—	—	—	6 x 1/2	
DIMENSIONS					
A	1'-0"	1'-0"	1'-0"	1'-0"	
C	1'-2"	1'-2"	1'-2"	1'-2"	
B	—	—	—	1'-2"	
BOLTS					
K	4 - 3/4" ϕ	4 - 1" ϕ	4 - 1" ϕ	4 - 1" ϕ	
L	—	2 - 1" ϕ	2 - 1" ϕ	2 - 1" ϕ	
WELDS					
①	C.P.	C.P.	C.P.	C.P.	
②	C.P.	C.P.	C.P.	C.P.	
③	—	7/16	7/16	7/16	
④	5/8	3/4	5/8	3/4	
⑤	—	C.P.	C.P.	C.P.	
⑥	5/16	5/16	5/16	5/16	
⑦	—	—	—	3/8	



6-AB1-59.1

PROJECT

THE WORLD TRADE CENTER

TITLE

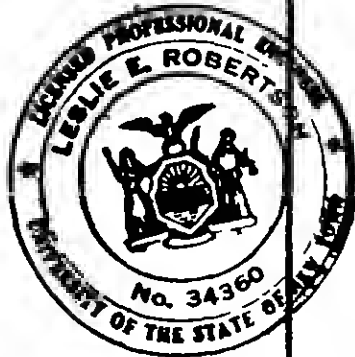
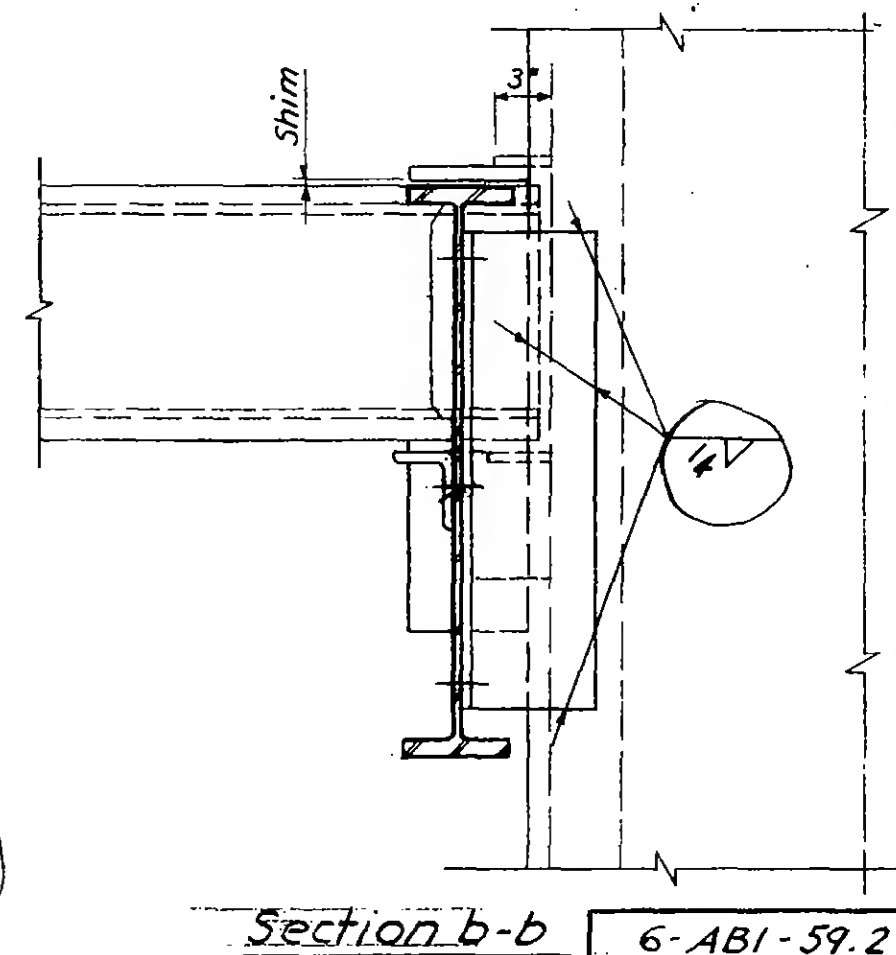
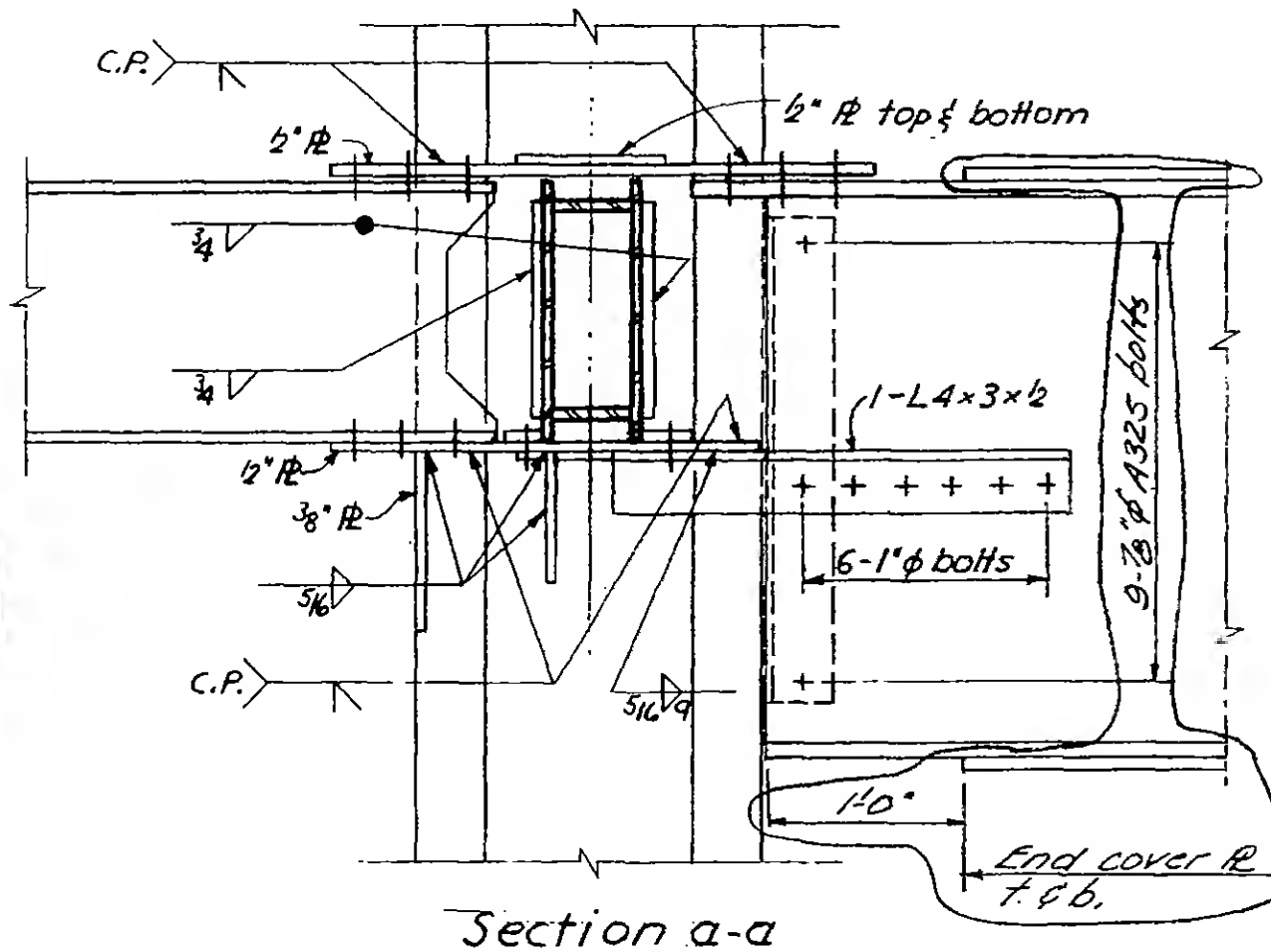
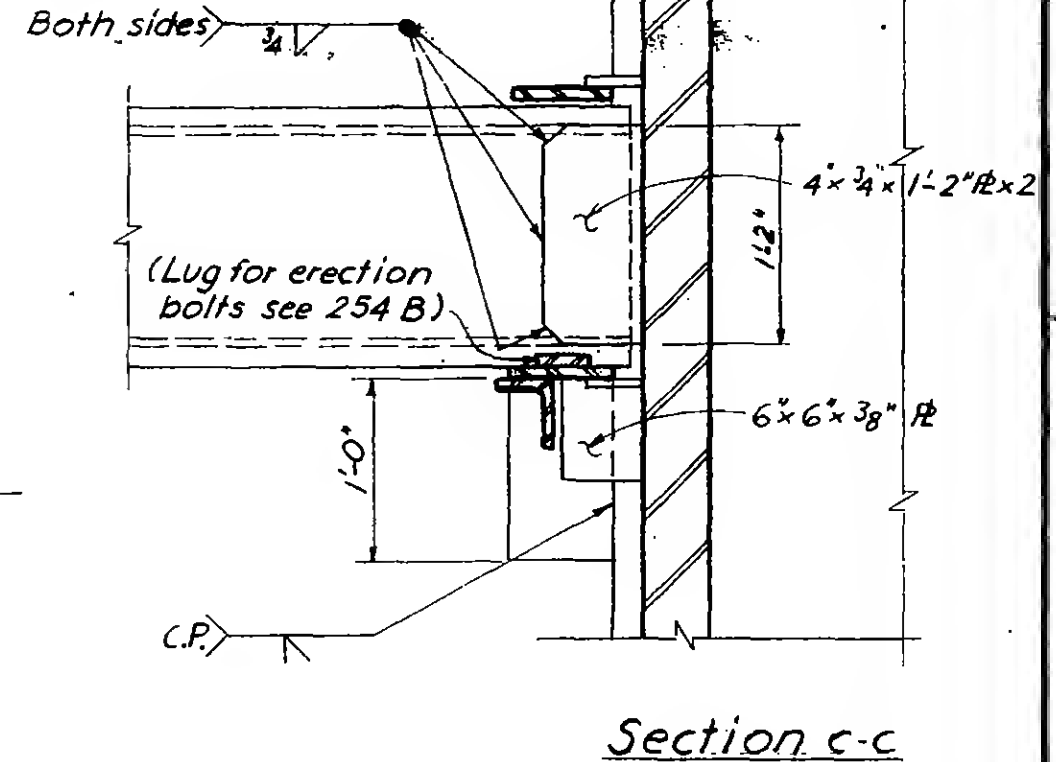
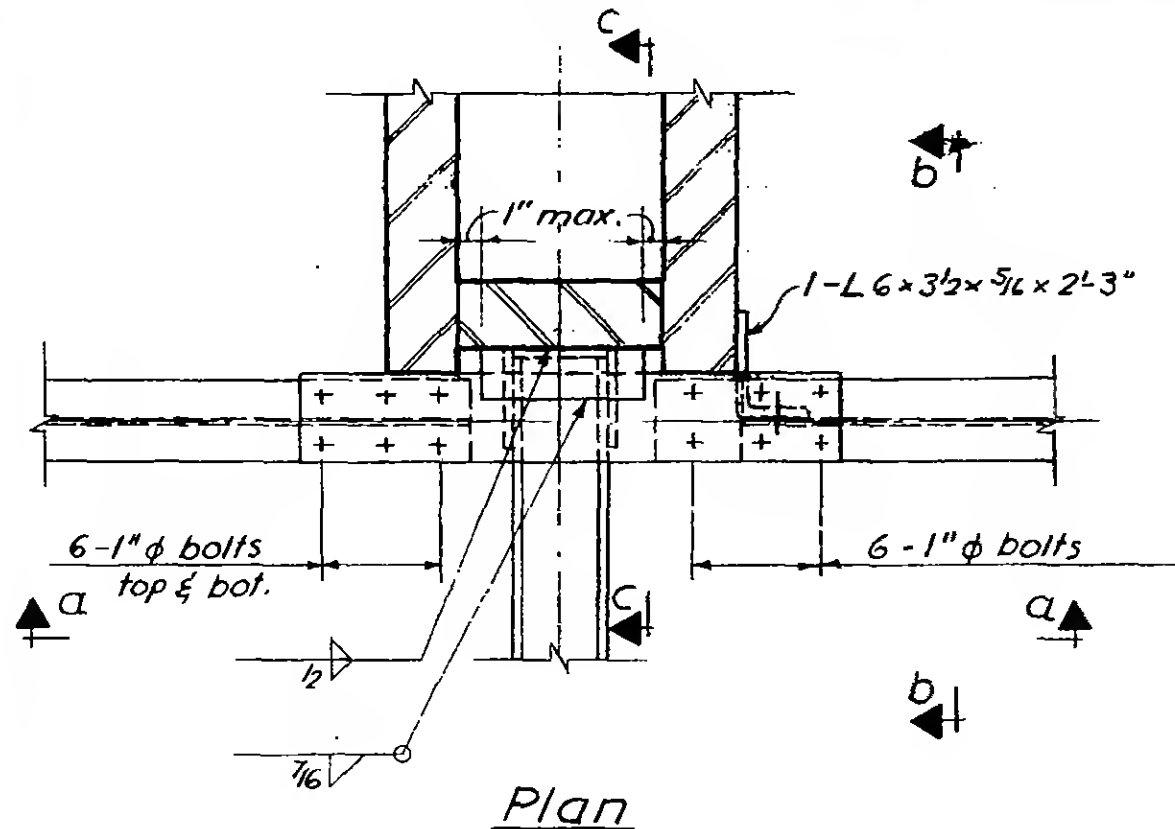
CONNECTION DETAIL 254 D

DATE

12-21-67

REVISIONS

7-17-68



PROJECT

THE WORLD TRADE CENTER

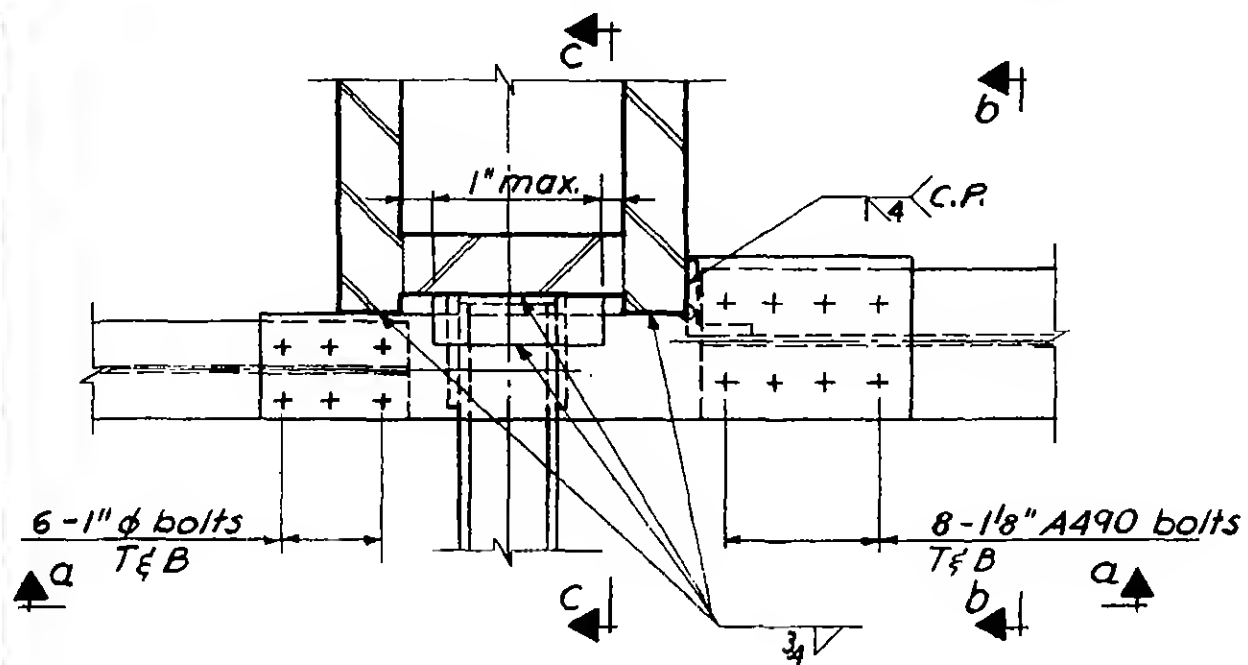
TITLE

CONNECTION DETAIL 254E

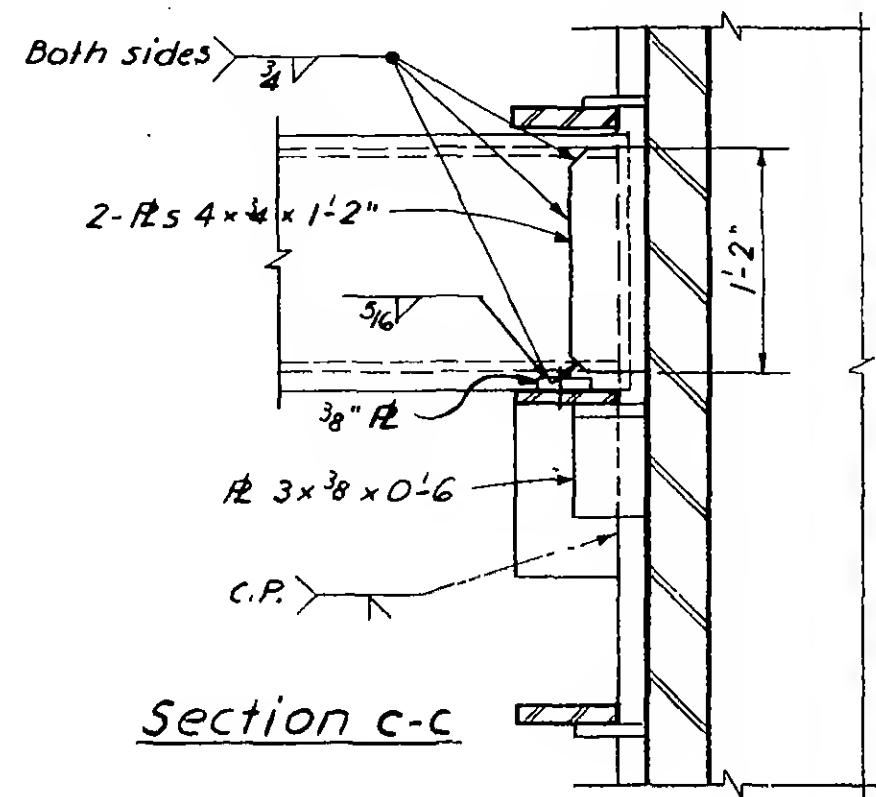
DATE

4-17-68

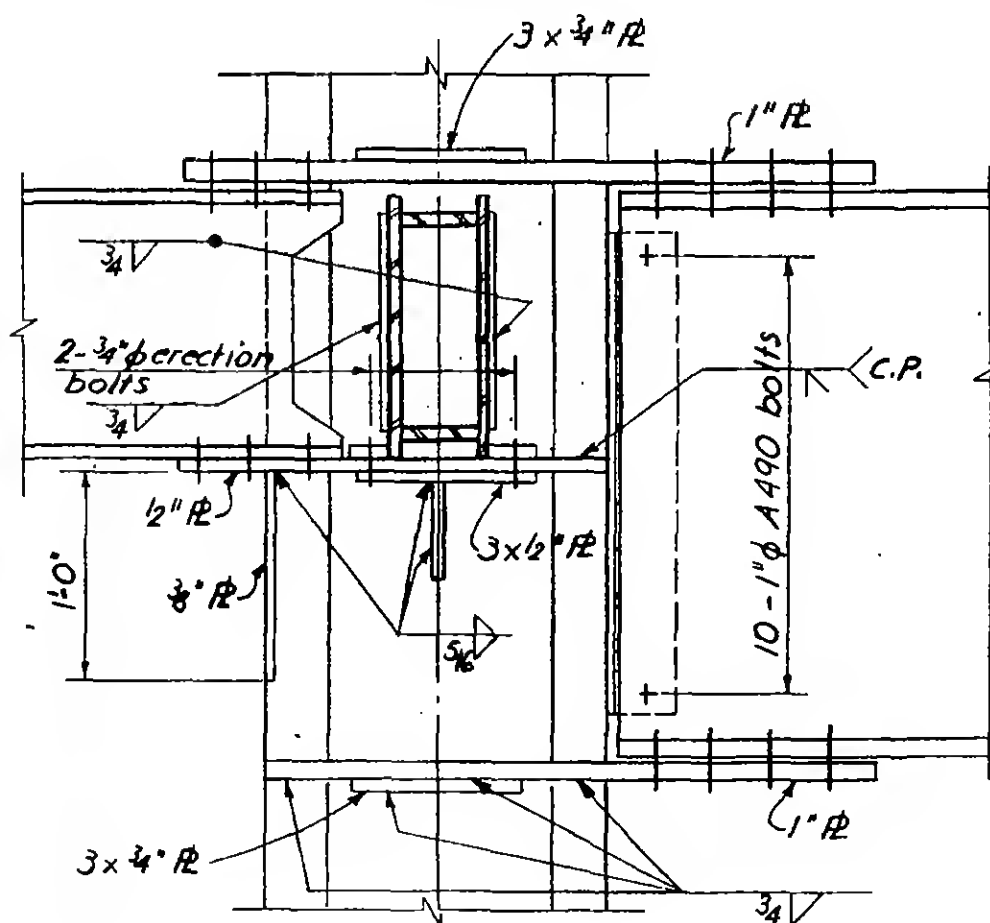
REVISIONS



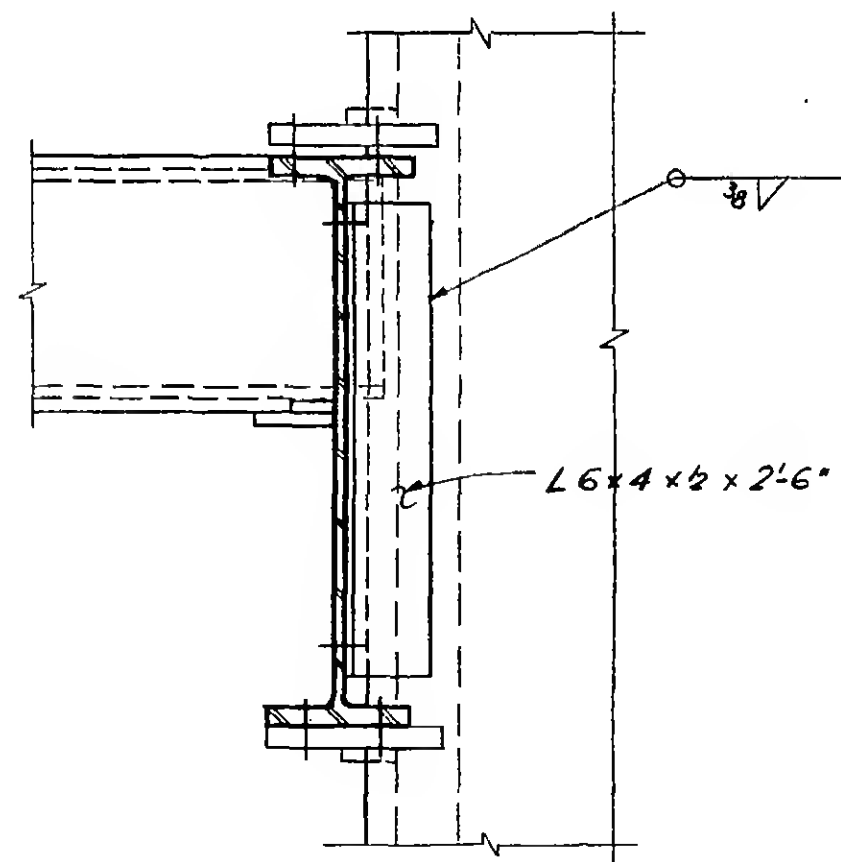
Plan



Section c-c



Section a-a



Section b-b

6-ABI-59.3



PROJECT THE WORLD TRADE CENTER

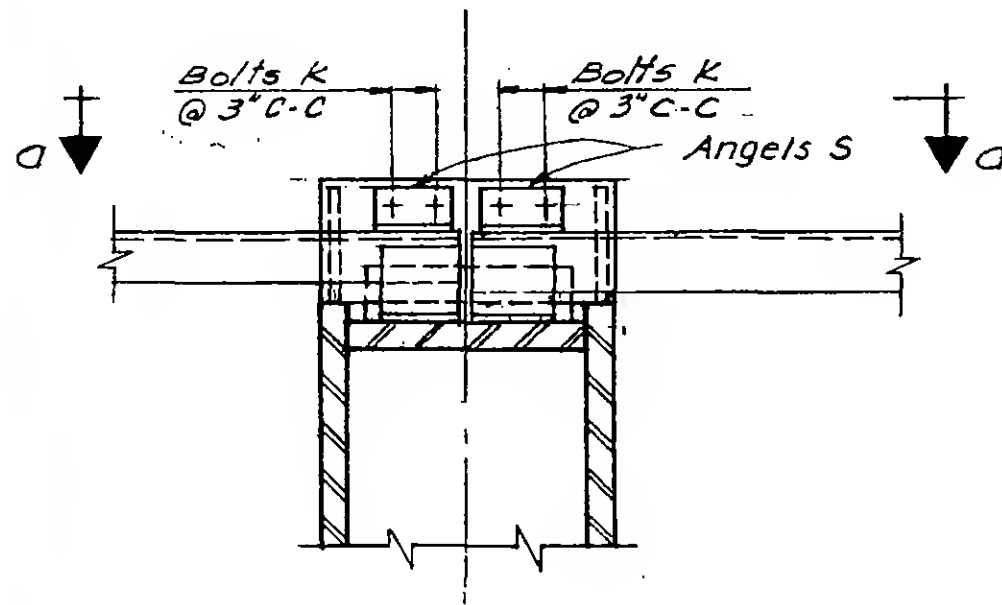
TITLE CONNECTION DETAIL 255A

DATE 5-1-67

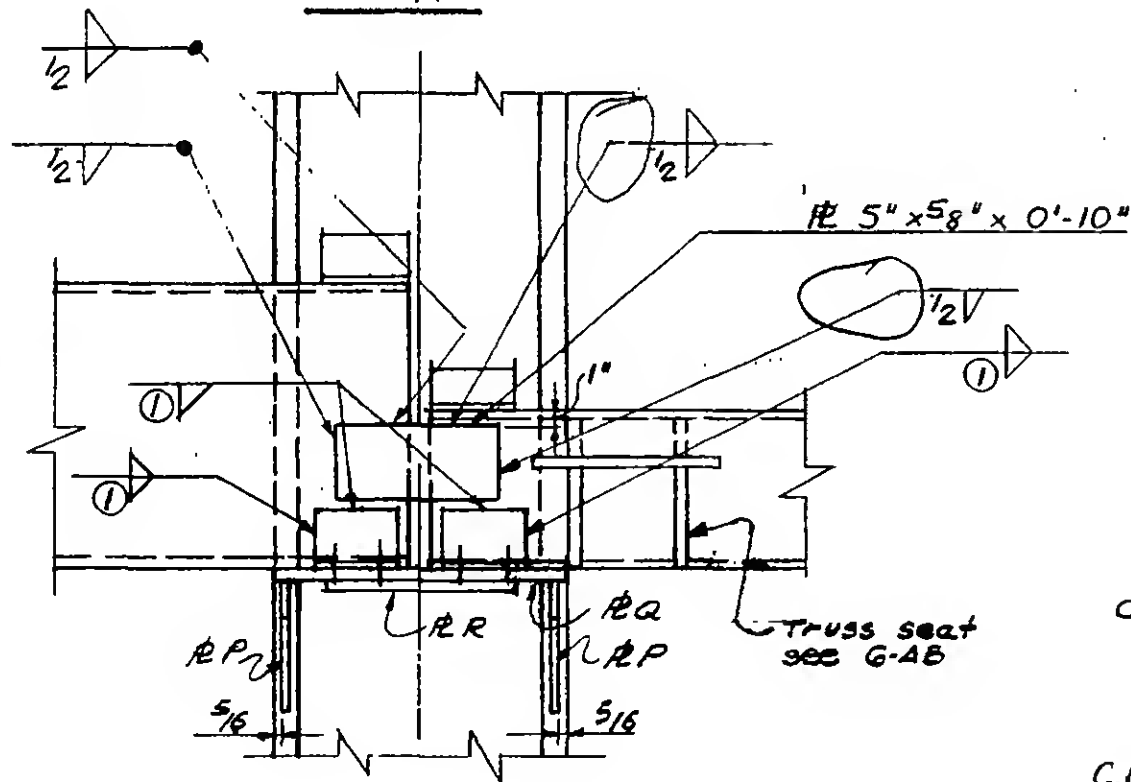
REVISIONS

-28-67

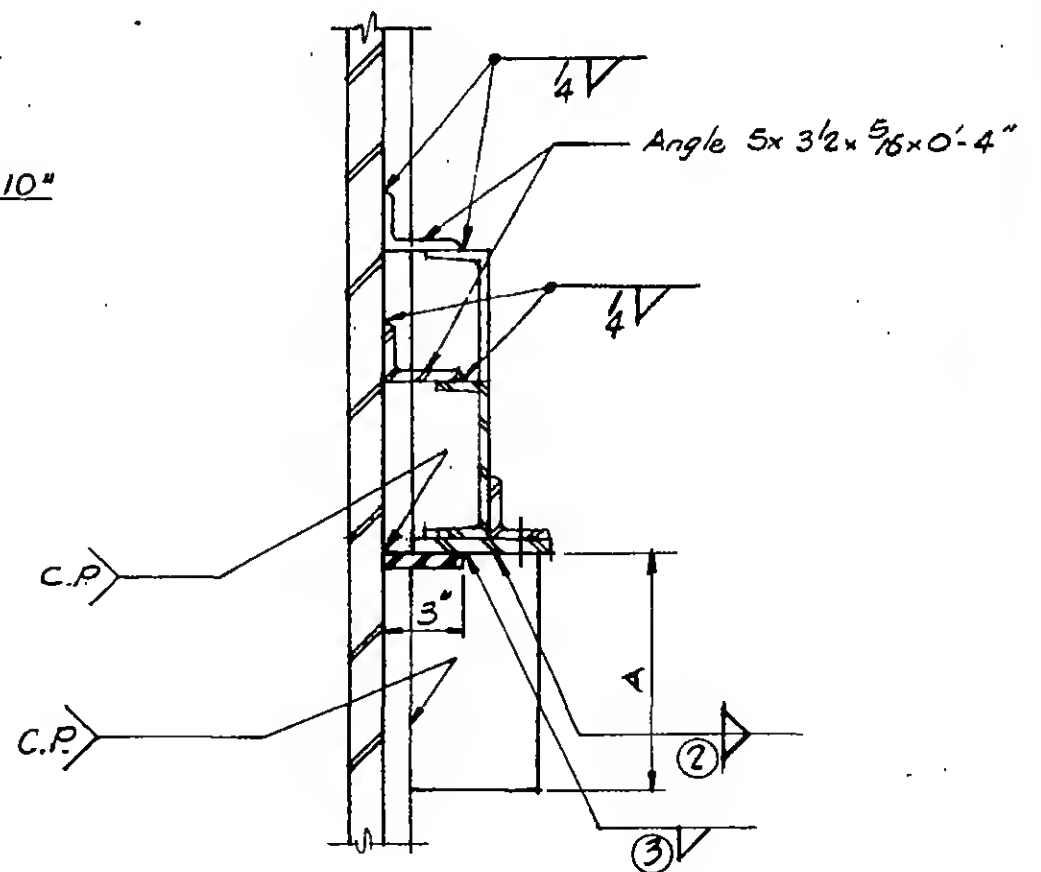
12-7-67



Plan

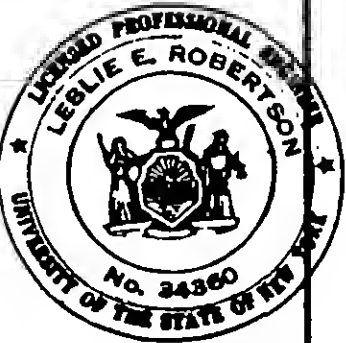


Section a-a



Section b-b

6-ABI-60



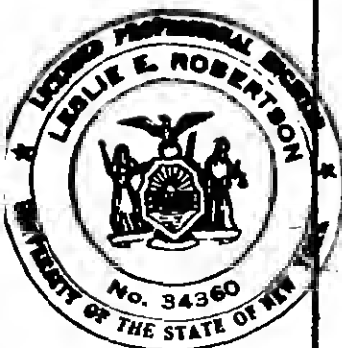
PROJECT THE WORLD TRADE CENTER

TITLE SCHEDULE FOR DETAIL 255 A

DATE 7-28-60

REVISIONS

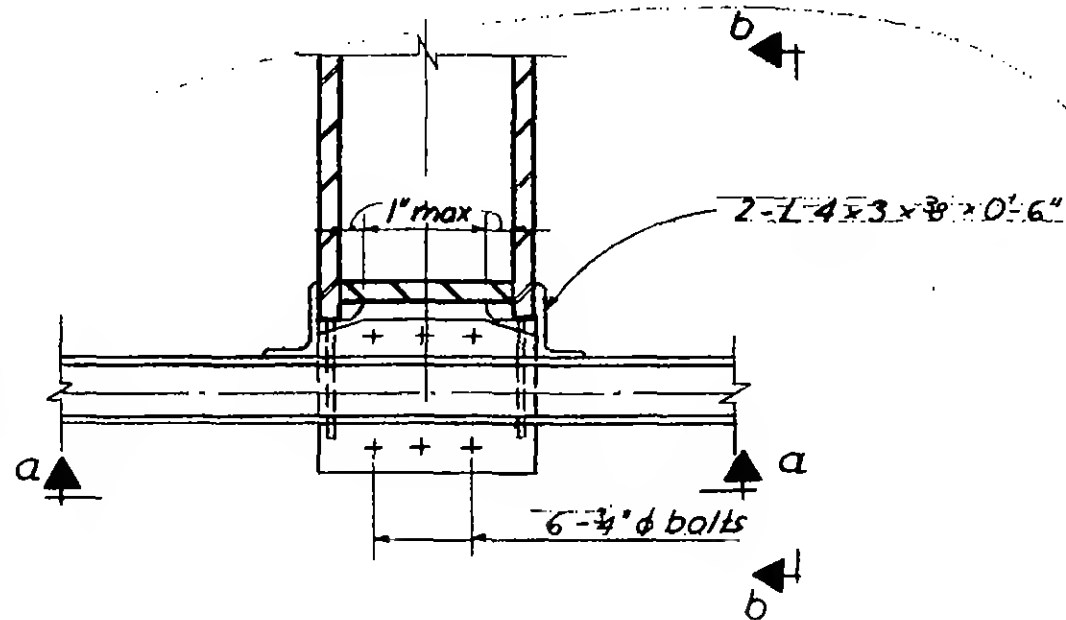
		255 A				
Plates						
	P	6' x 3"				
	Q	8' x 3"				
	R	58' x 0'-7"				
Angles						
	S	3' x 3' x 3/8				
Dimension						
	A	1'-3"				
Bolts						
	K	2-7/8" φ				
Welds						
	①	5/16				
	②	1/4				
	③	5/16				



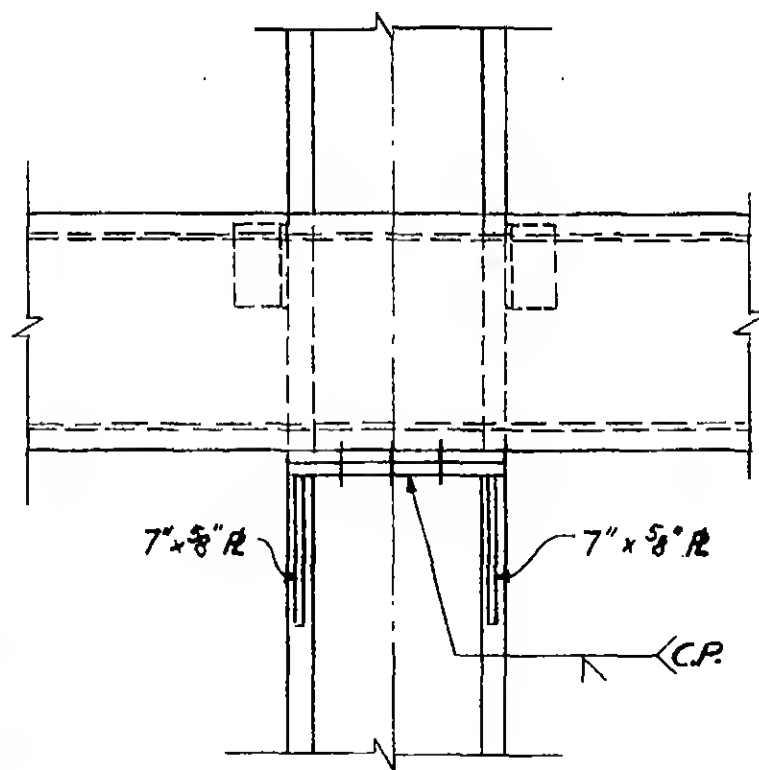
6-AB1-60.1

REVISIONS

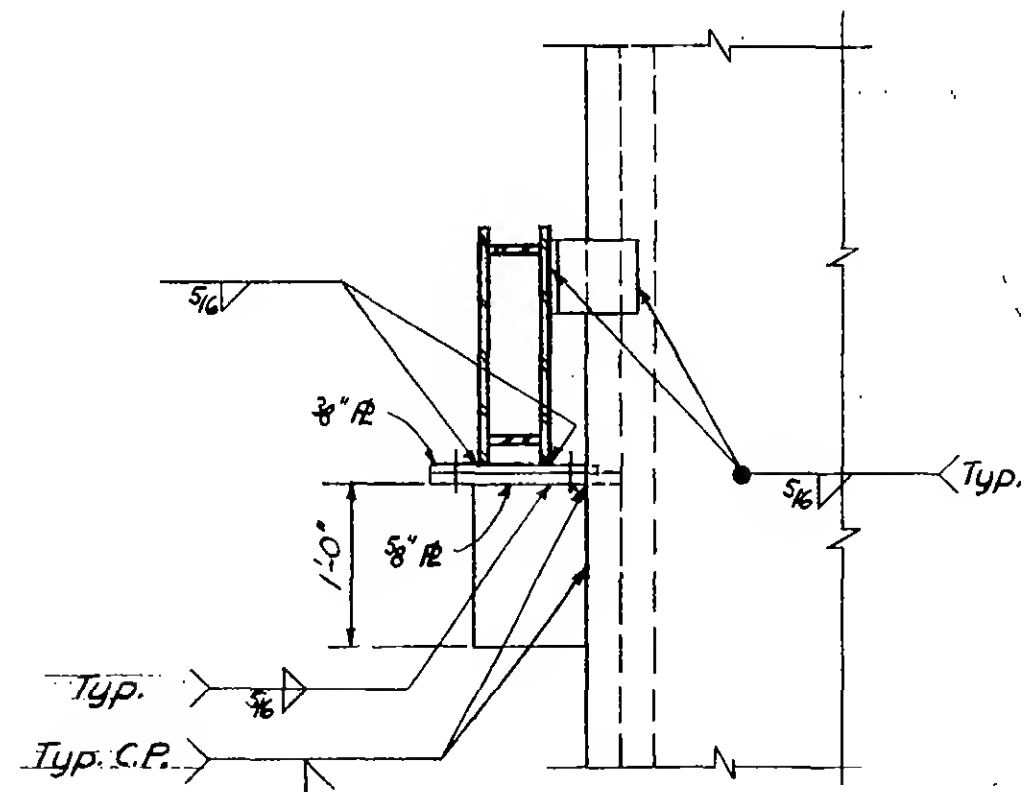
1-23-67



Plan



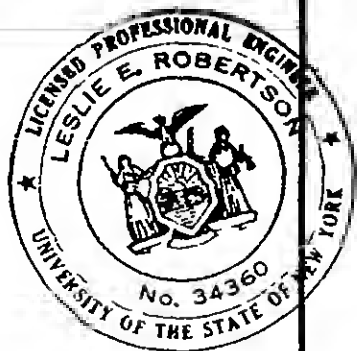
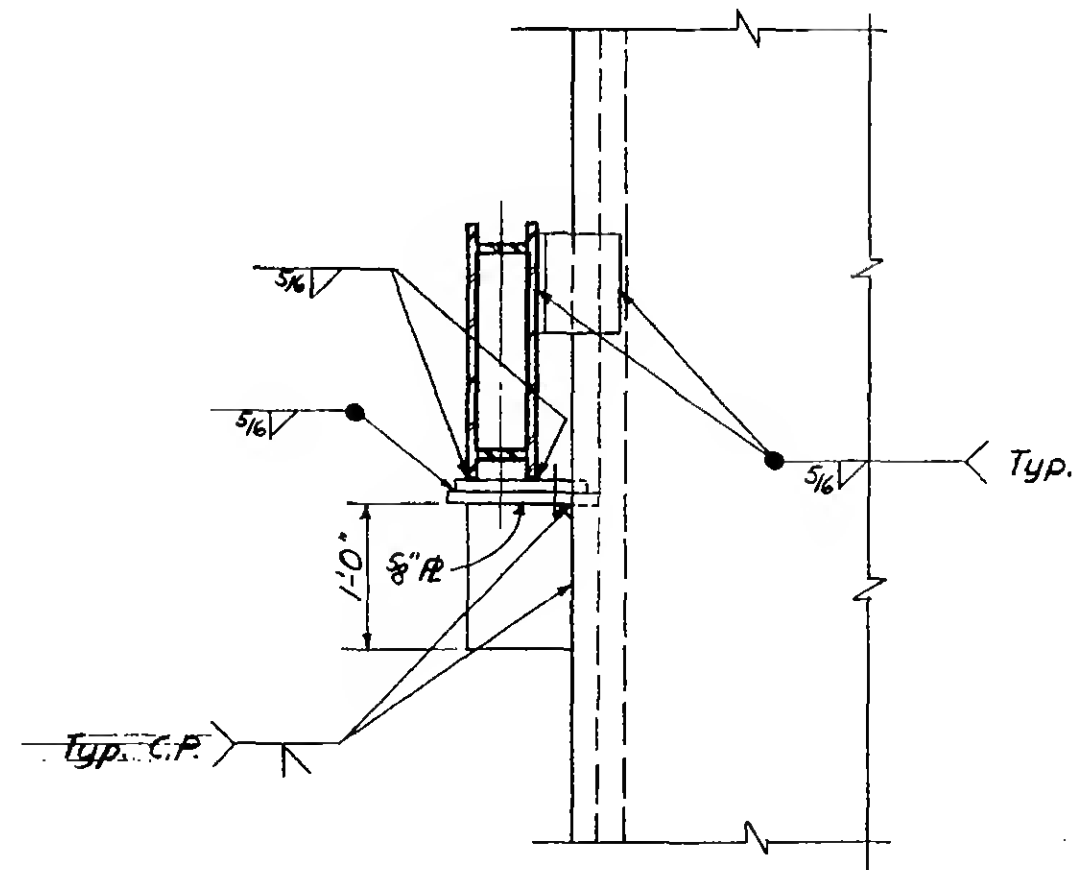
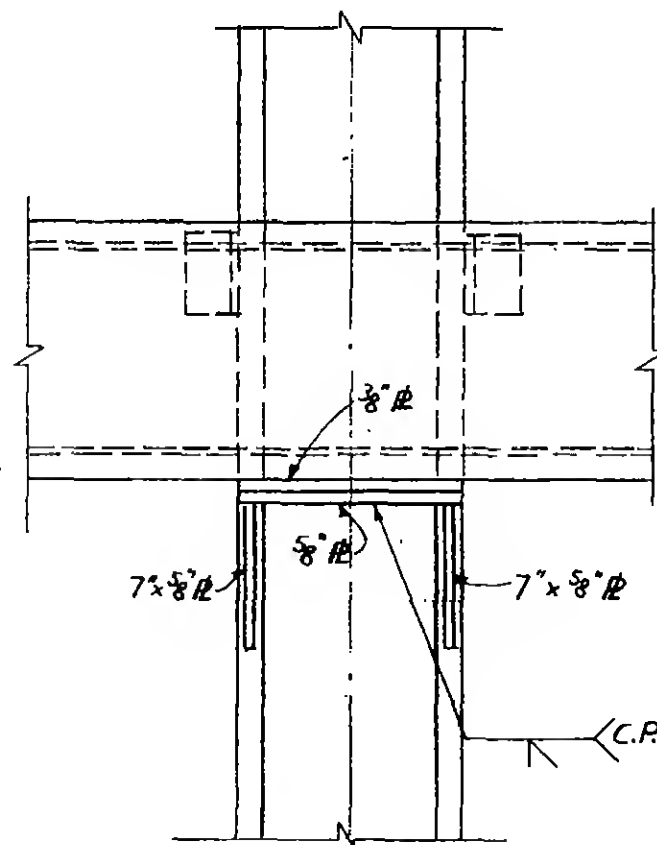
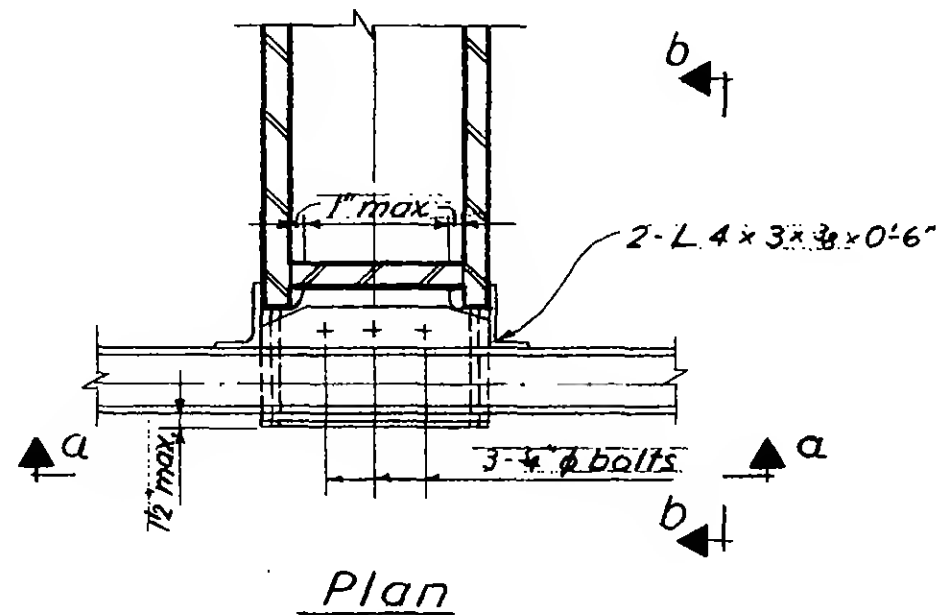
Section a-a



Section b-b



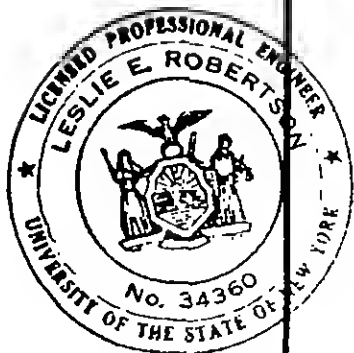
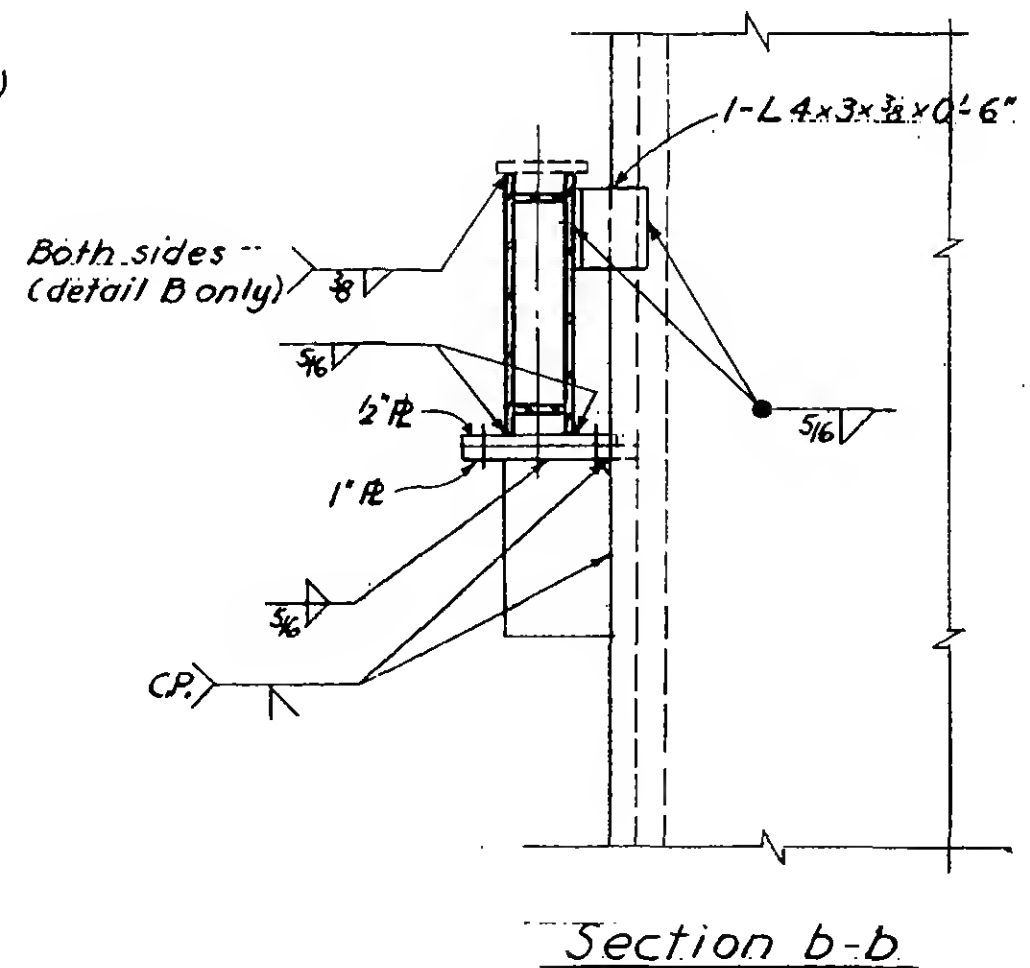
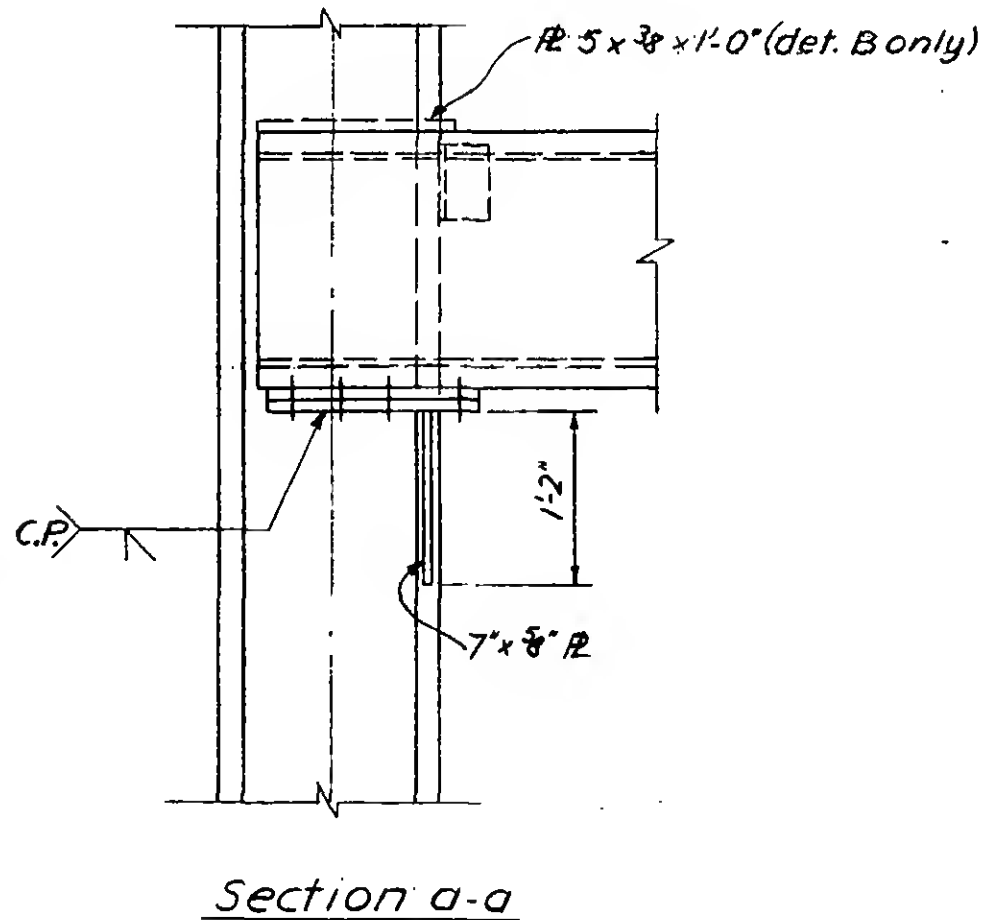
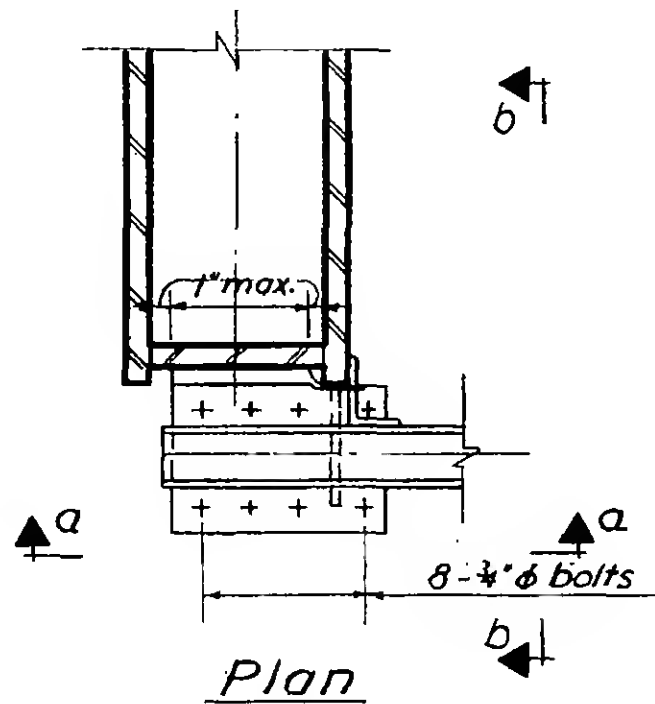
REVISIONS



PROJECT THE WORLD TRADE CENTERTITLE CONNECTION DETAIL 258 A, BDATE 6-5-67

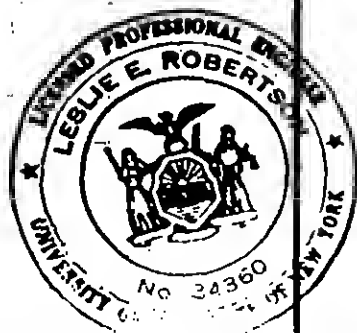
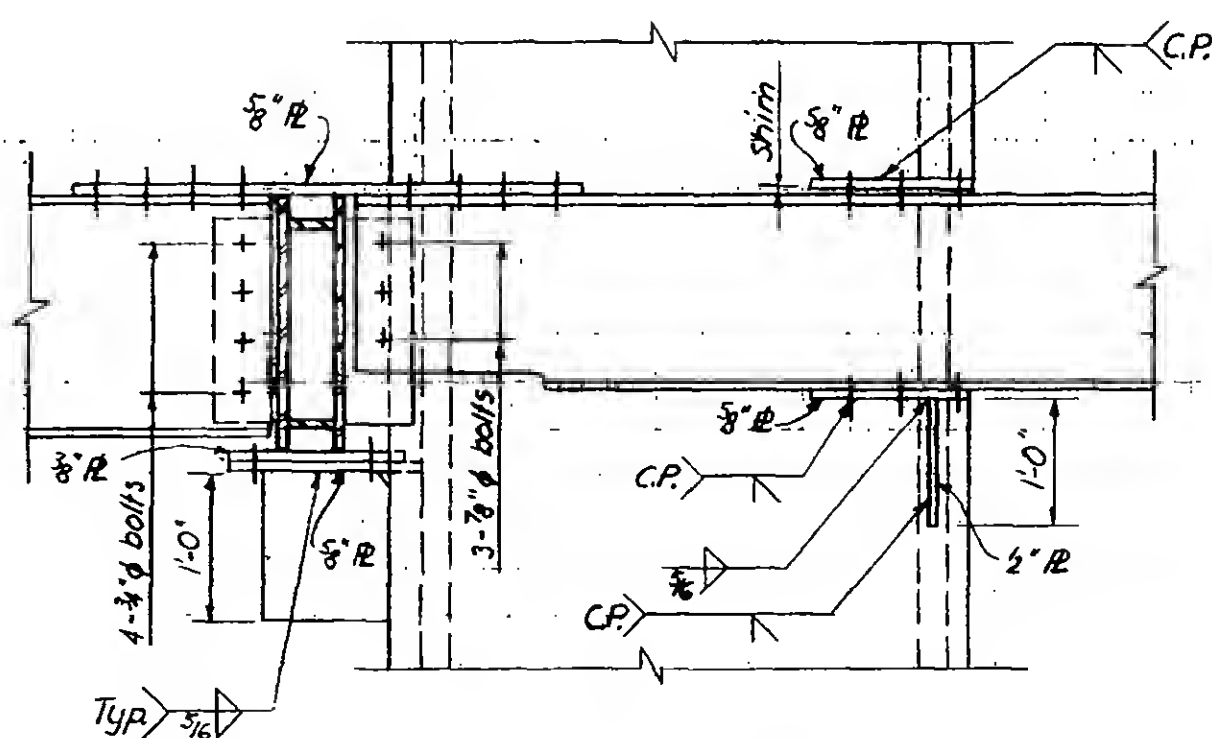
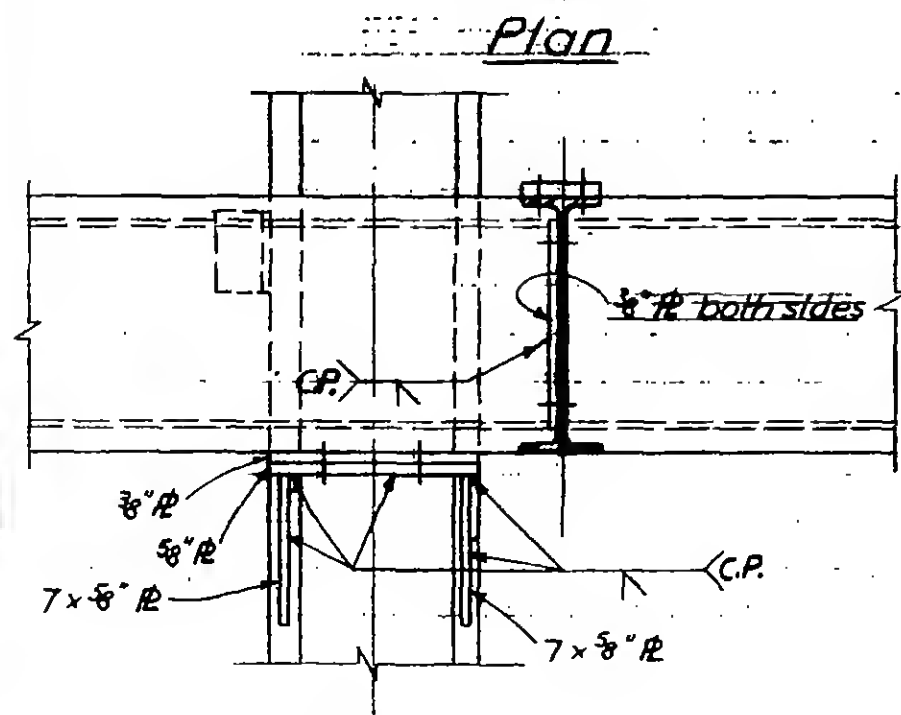
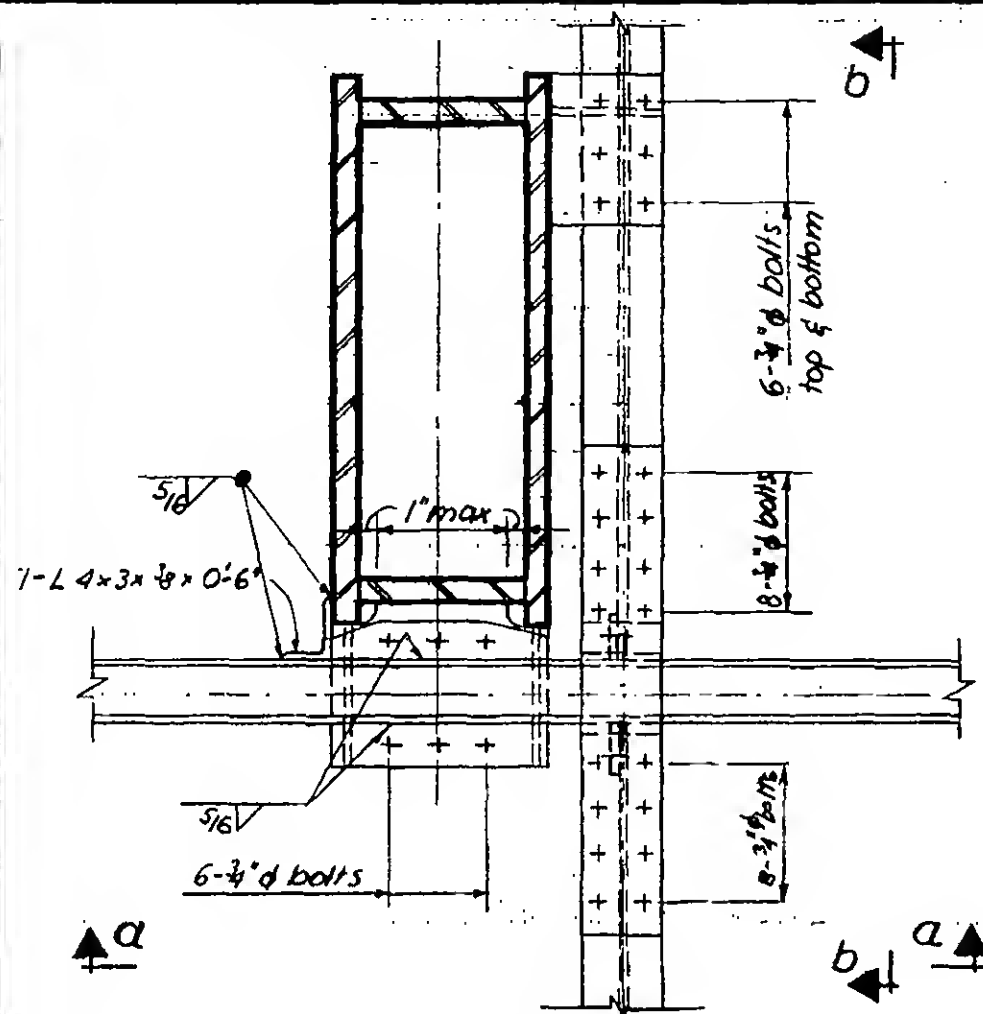
REVISIONS

1-23-67



REVISIONS

11-23-67



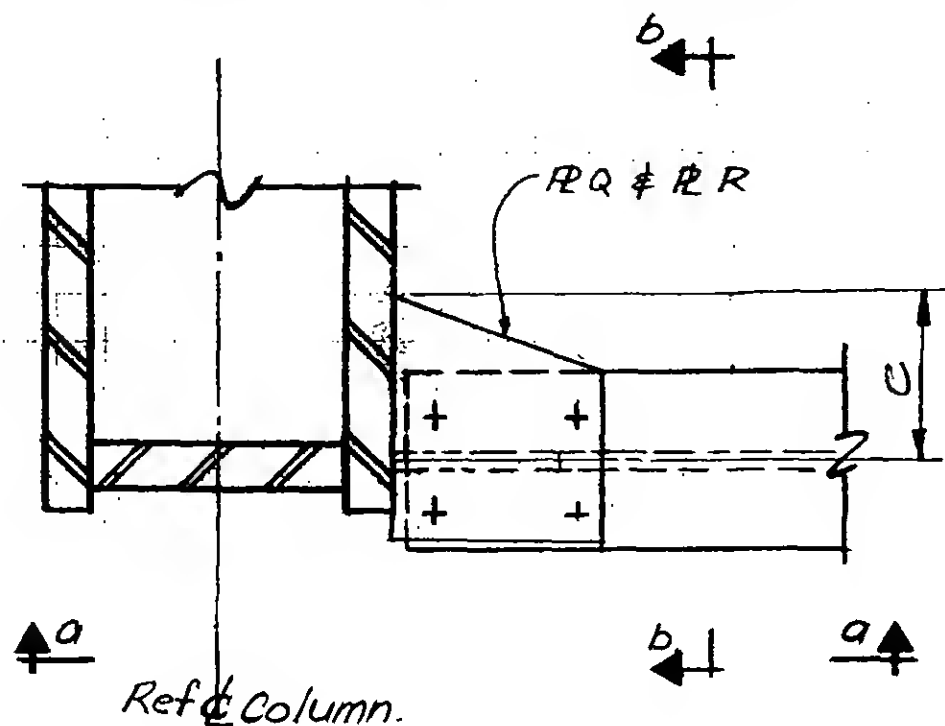
Section a-a

Section b-b

6-AB1-64

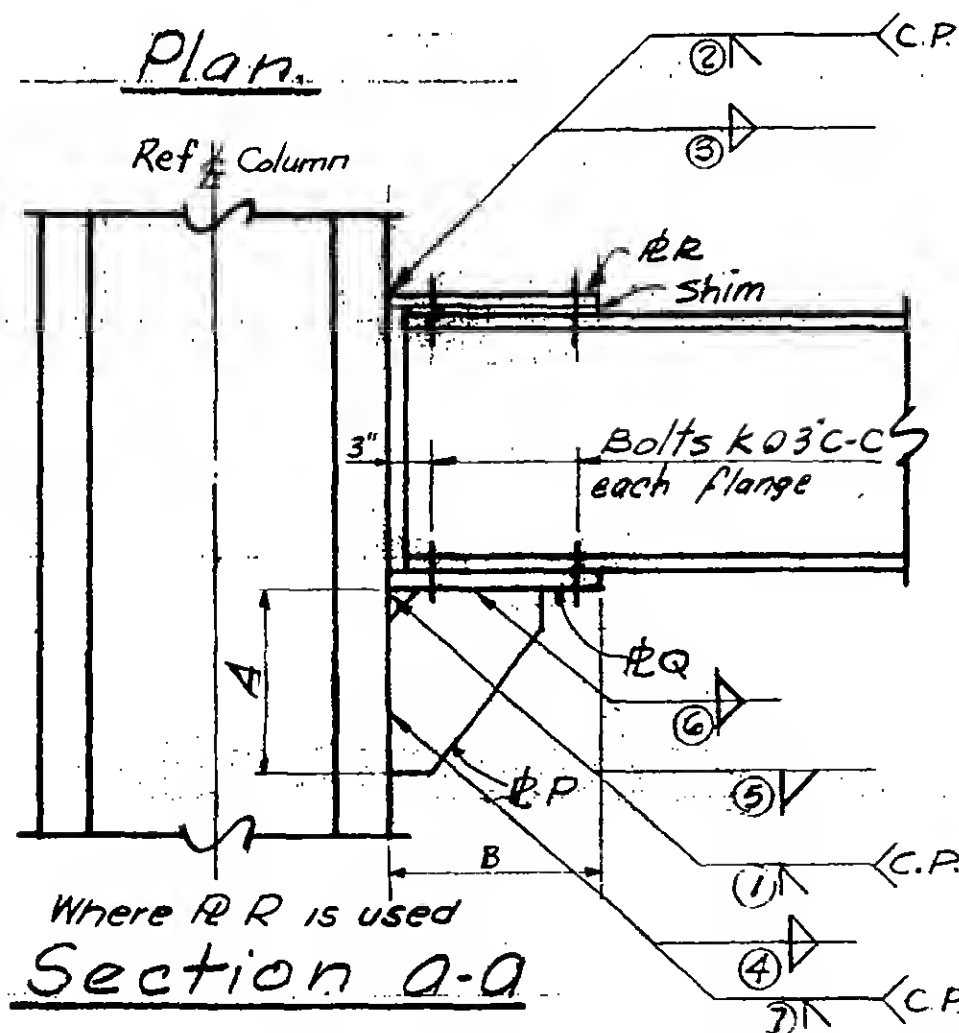
REVISIONS

7-5-67
7-28-67
10-2-67

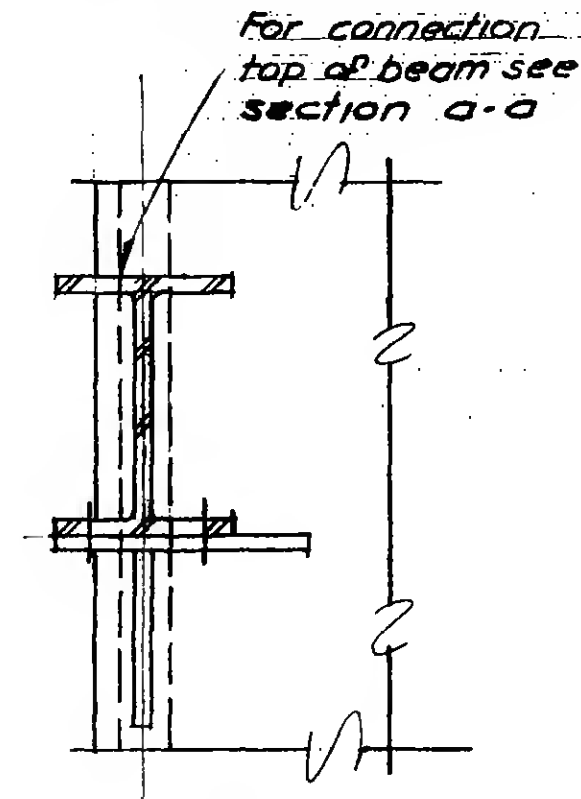


Plan

Ref. Column

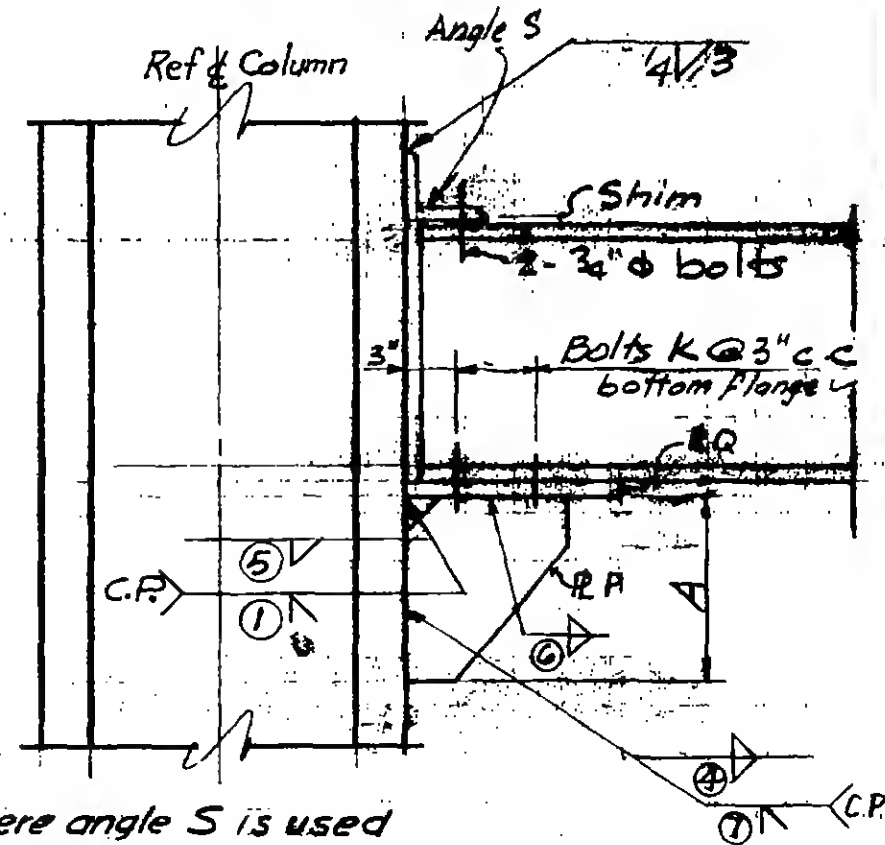


Where RR is used
Section a-a



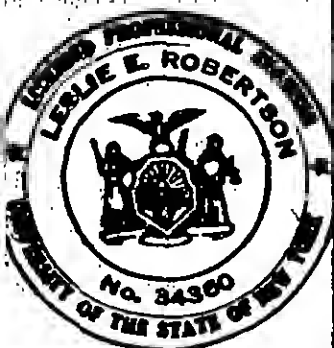
Section b-b

Ref. Column



Where angle S is used
Section a-a

6-AB1-65



Structural & Civil Engineers

PROJECT

TITLE

SCHEDULE FOR DETAIL 260 A, B, D

DATE 7-5-67

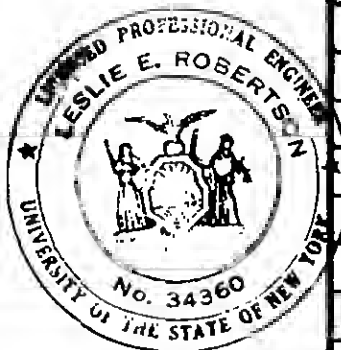
REVISIONS

1-28-67

10-2-67

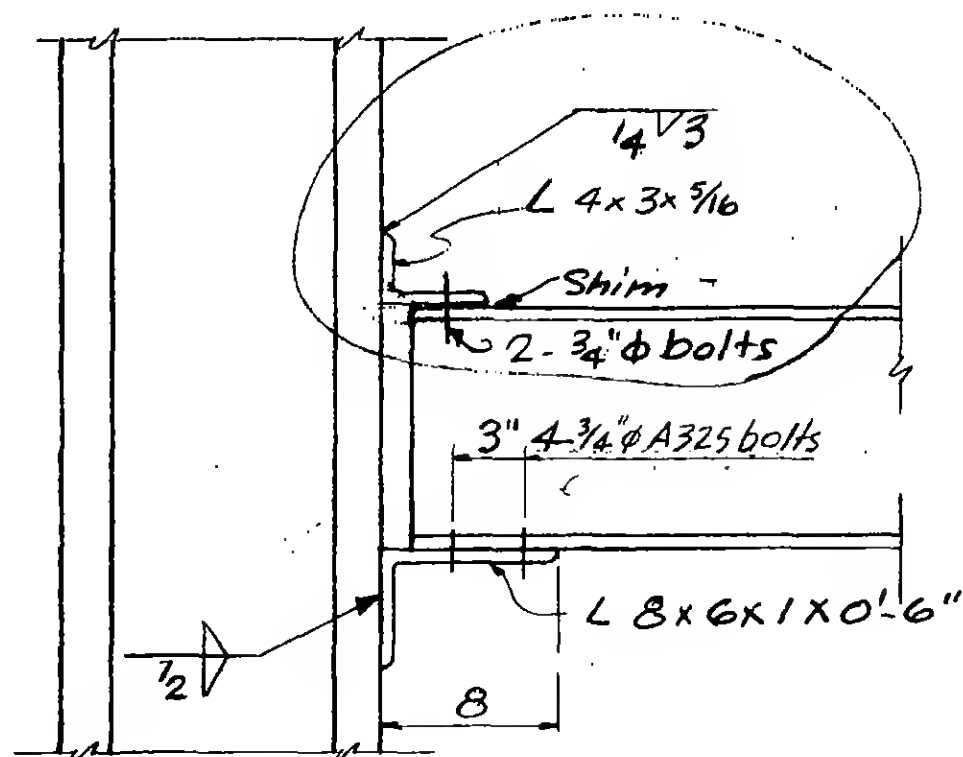
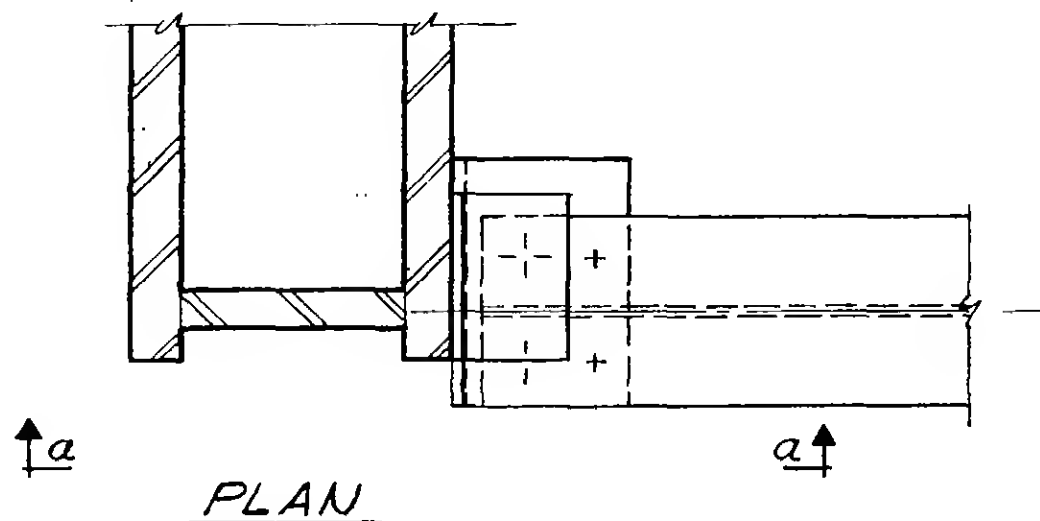
	260 A	260 B		260 D	
PLATES					
P	5" x 3/8"	5" x 3/8"		5" x 1/2"	
Q	3/8"	3/8"		1/2"	
R	—	—		—	
ANGLES					
S	4 x 3 x 5/16	4 x 3 x 5/16		4 x 3 x 5/16	
DIMENSIONS					
A	1'-0"	0'-9"		1'-1"	
B	—	—		—	
C	0'-4"	0'-4"		0'-5"	
BOLTS					
K	4 - 3/4" ϕ	4 - 3/4" ϕ		4 - 3/4" ϕ	
WELDS					
①	—	—		C.P.	
④	3/8	3/8		5/16	
⑤	3/8	3/8		—	
⑥	5/16	5/16		5/16	

6-ABI-65.1



REVISIONS

7-28-67



PROJECT

THE WORLD TRADE CENTER

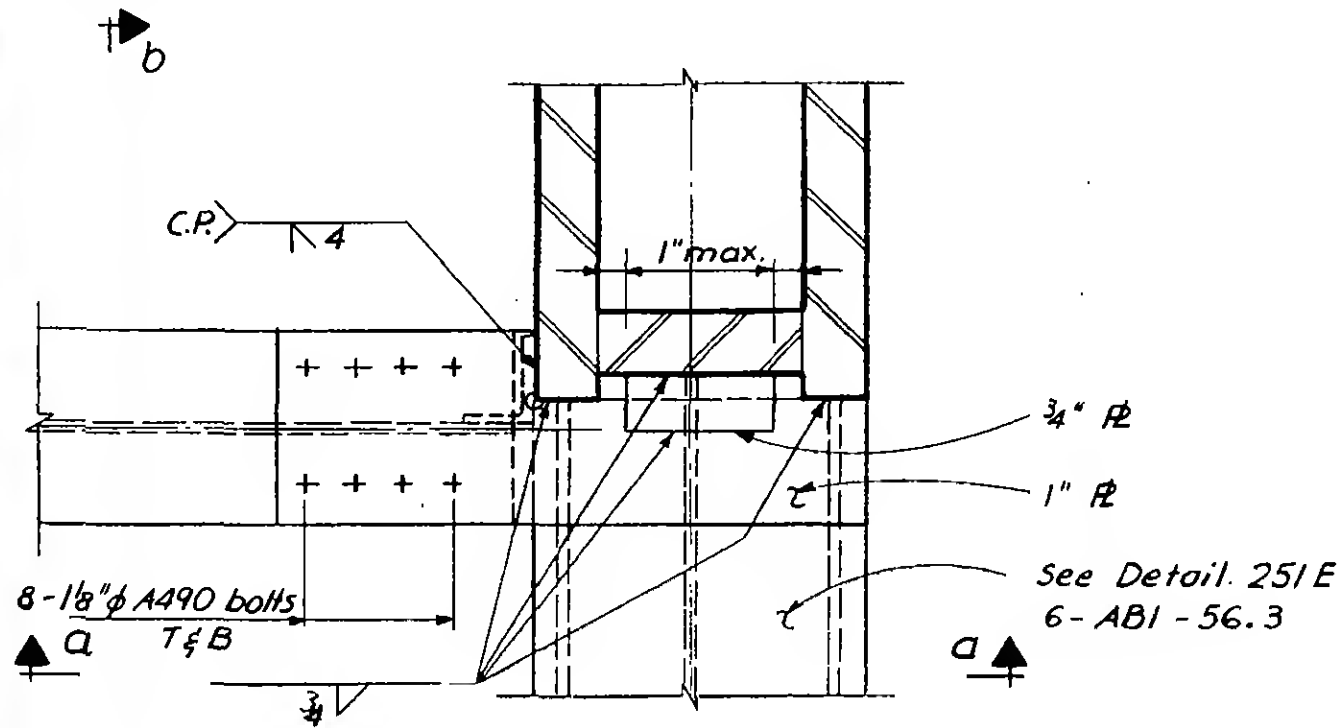
TITLE

CONNECTION DETAIL 260E

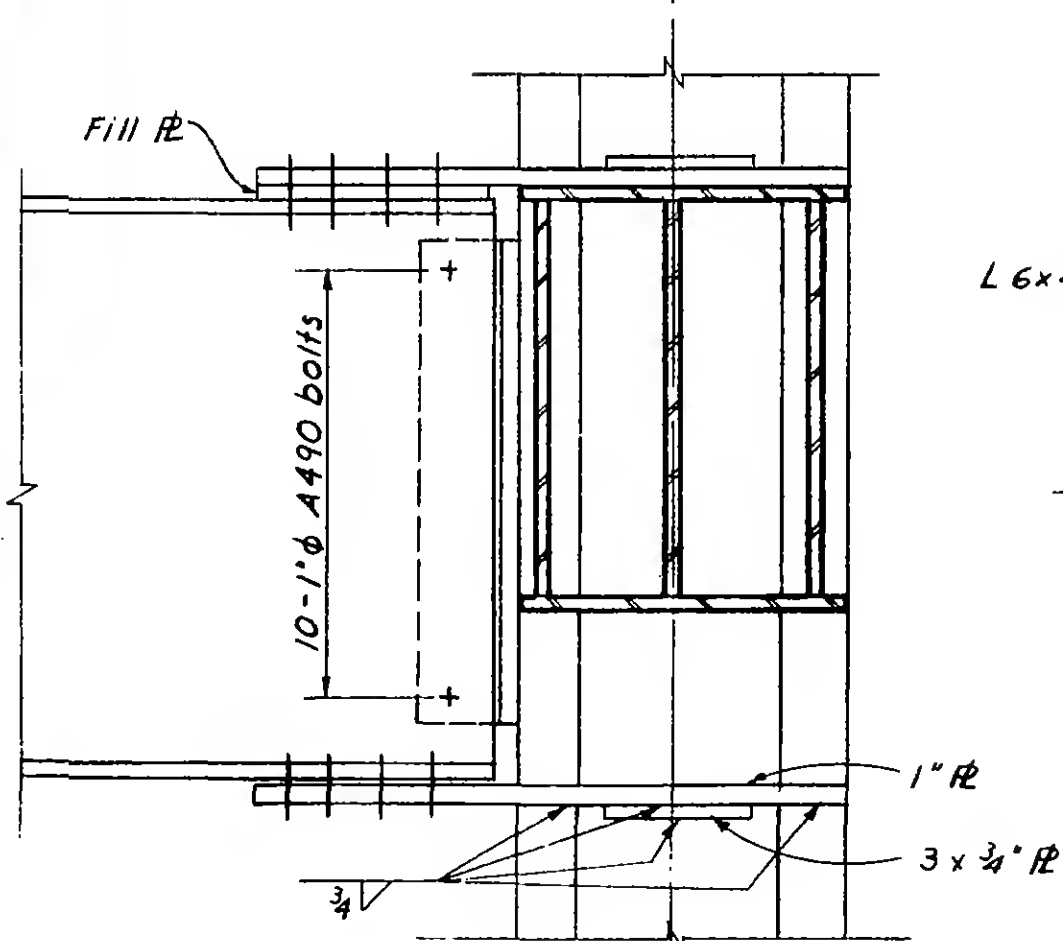
DATE

4-17-68

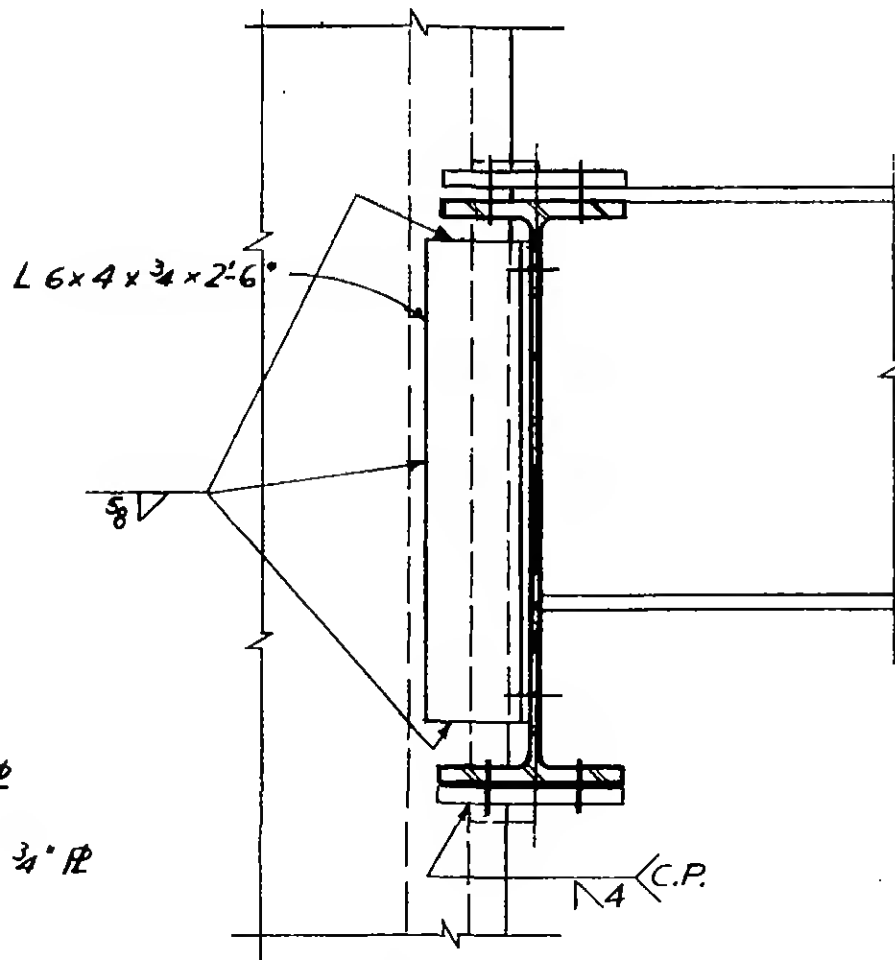
REVISIONS



Plan



Section a-a



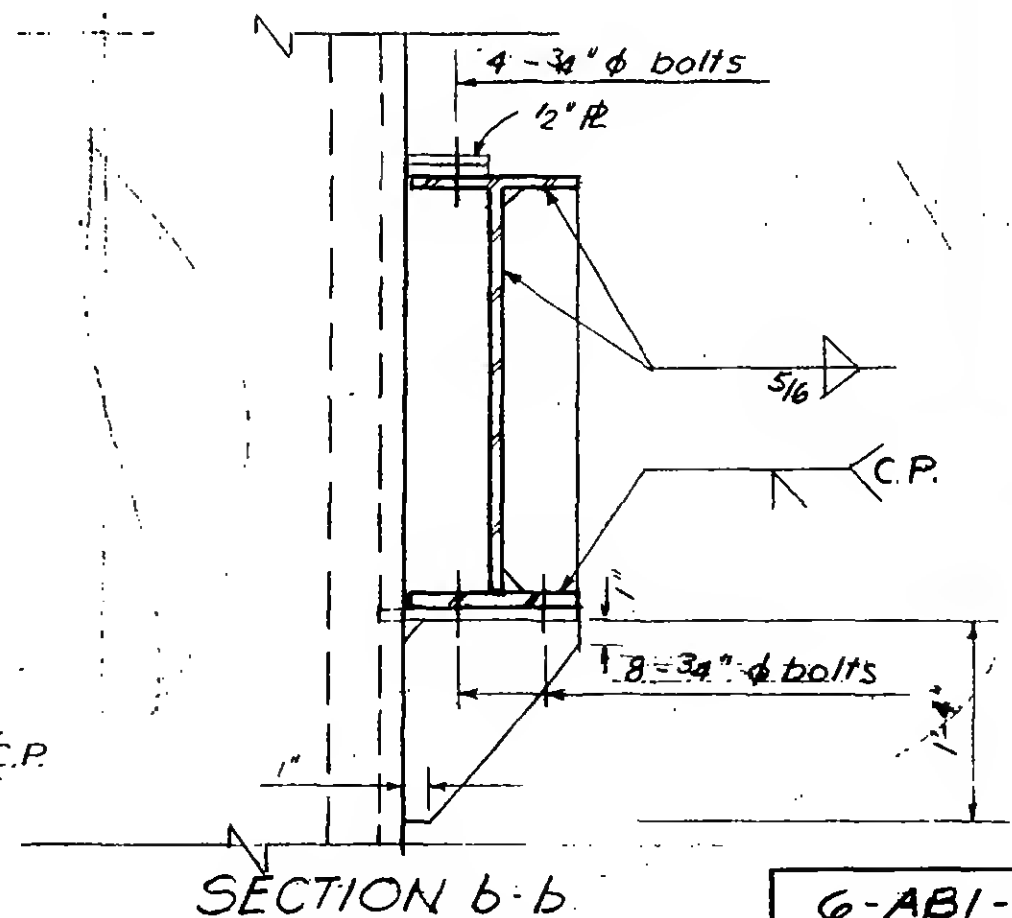
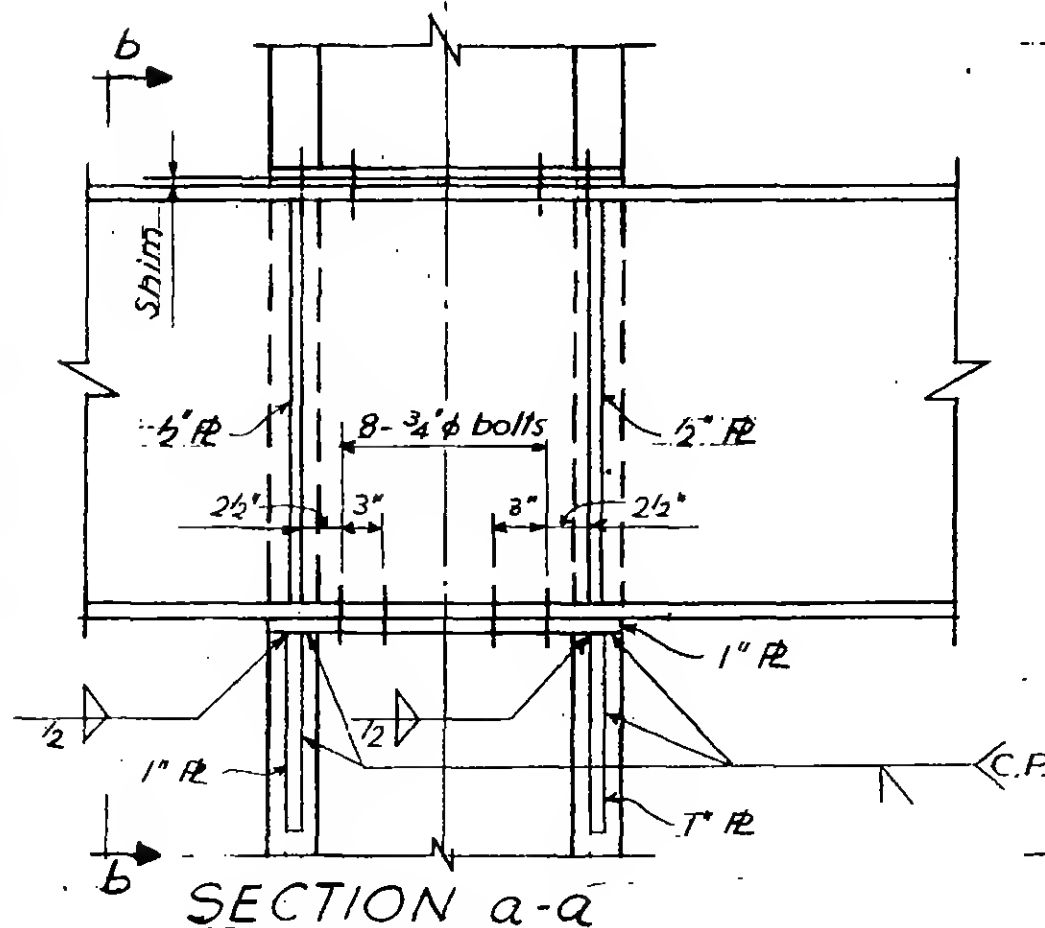
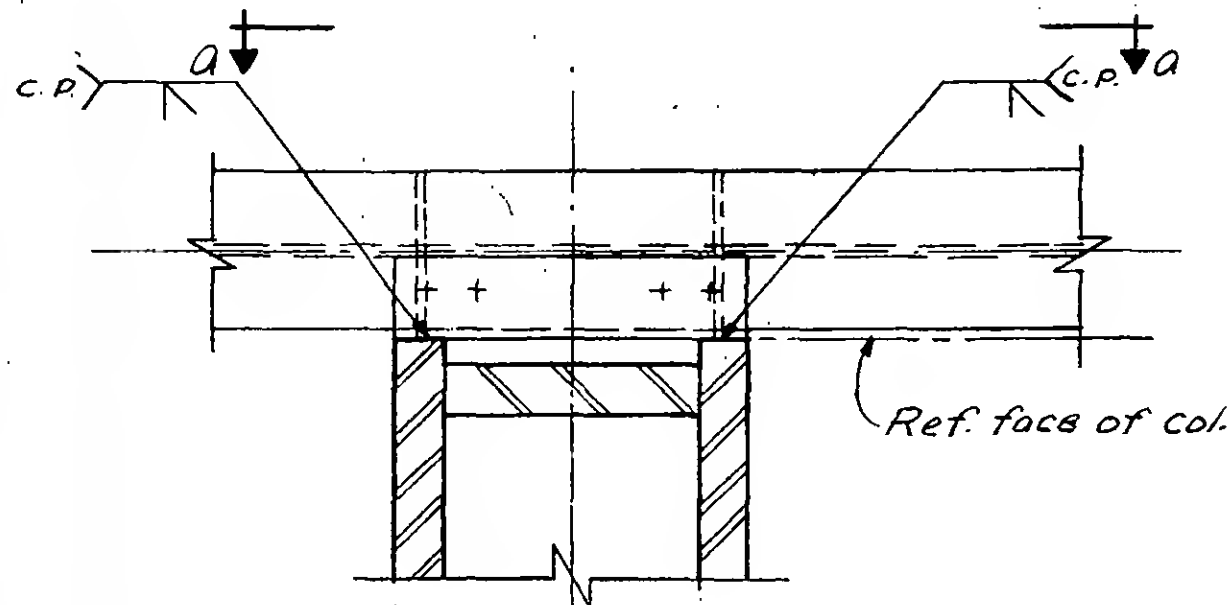
Section b-b



6-ABI-65.4

REVISIONS

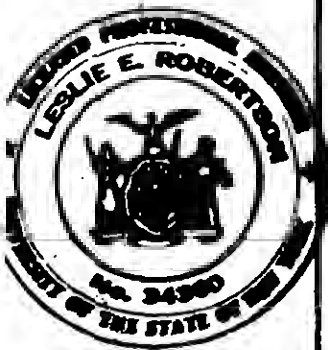
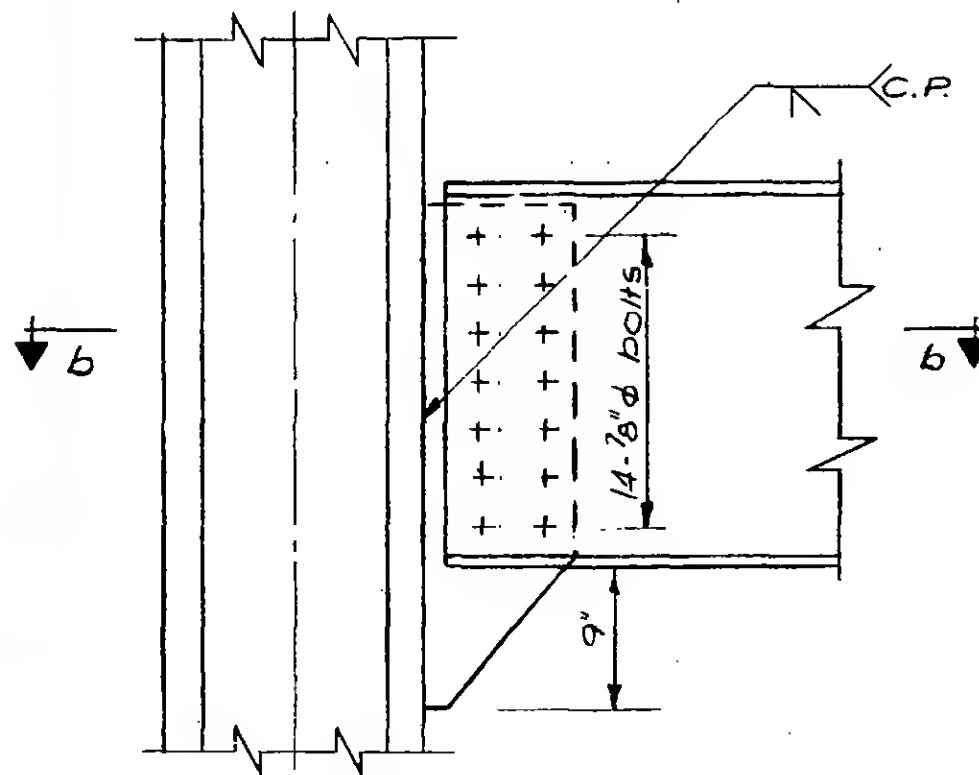
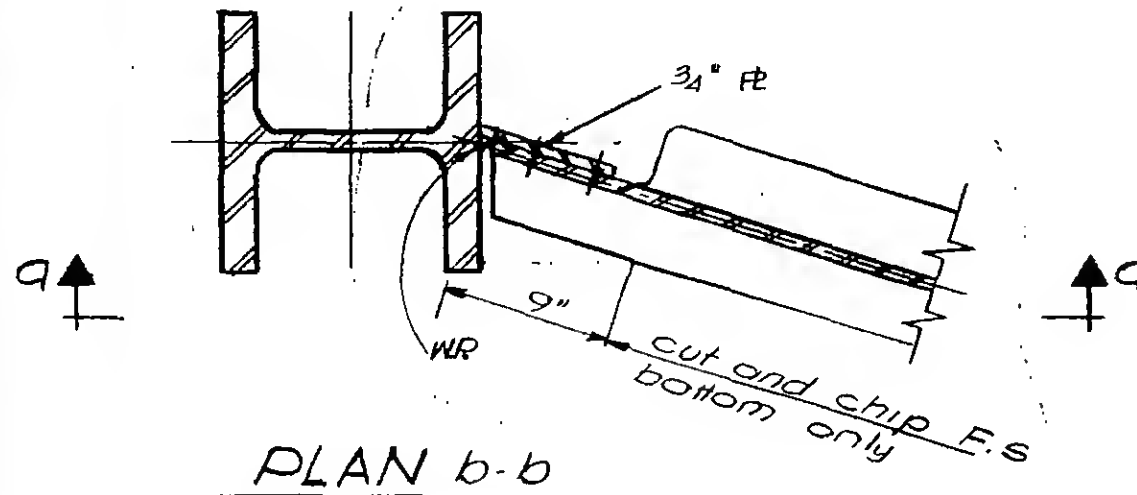
8-5-67



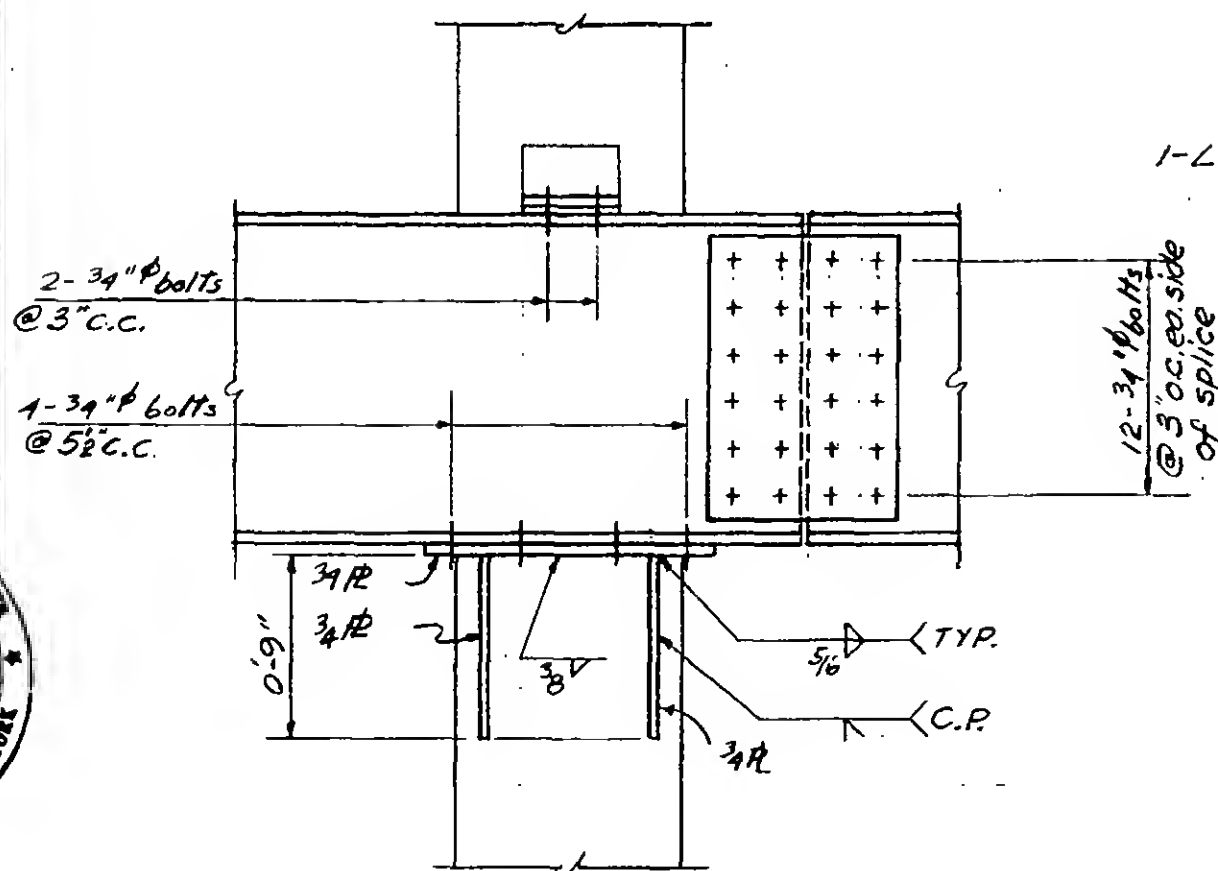
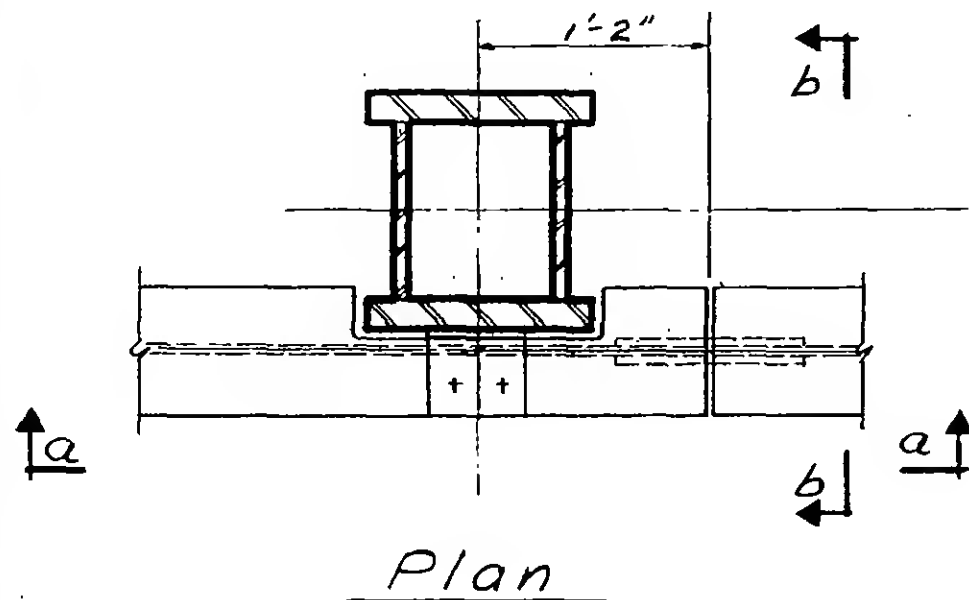
6-ABI-66

REVISIONS

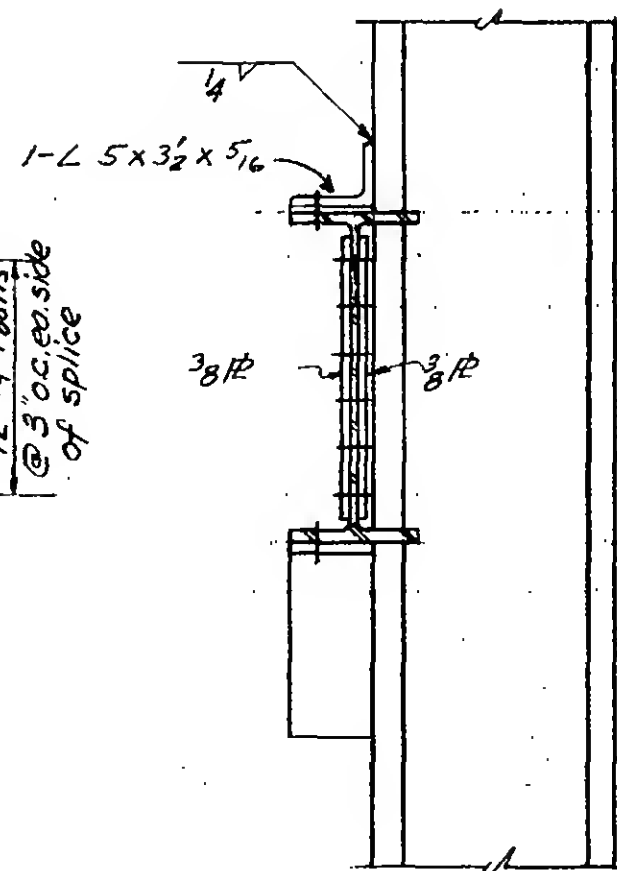
10-5-67
10-31-67



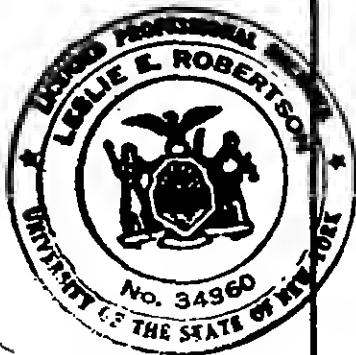
REVISIONS



Section a-a

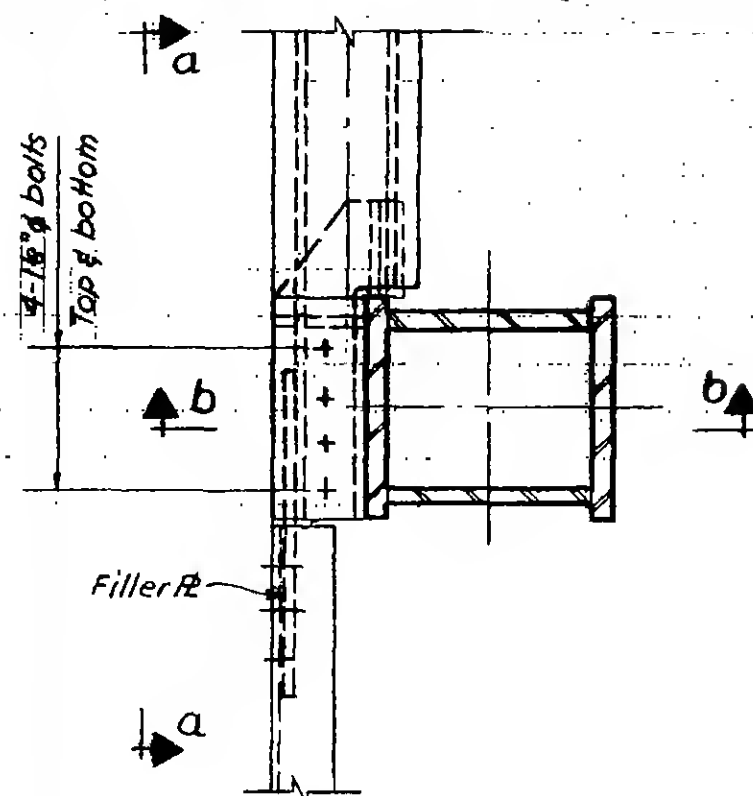


Section b-b

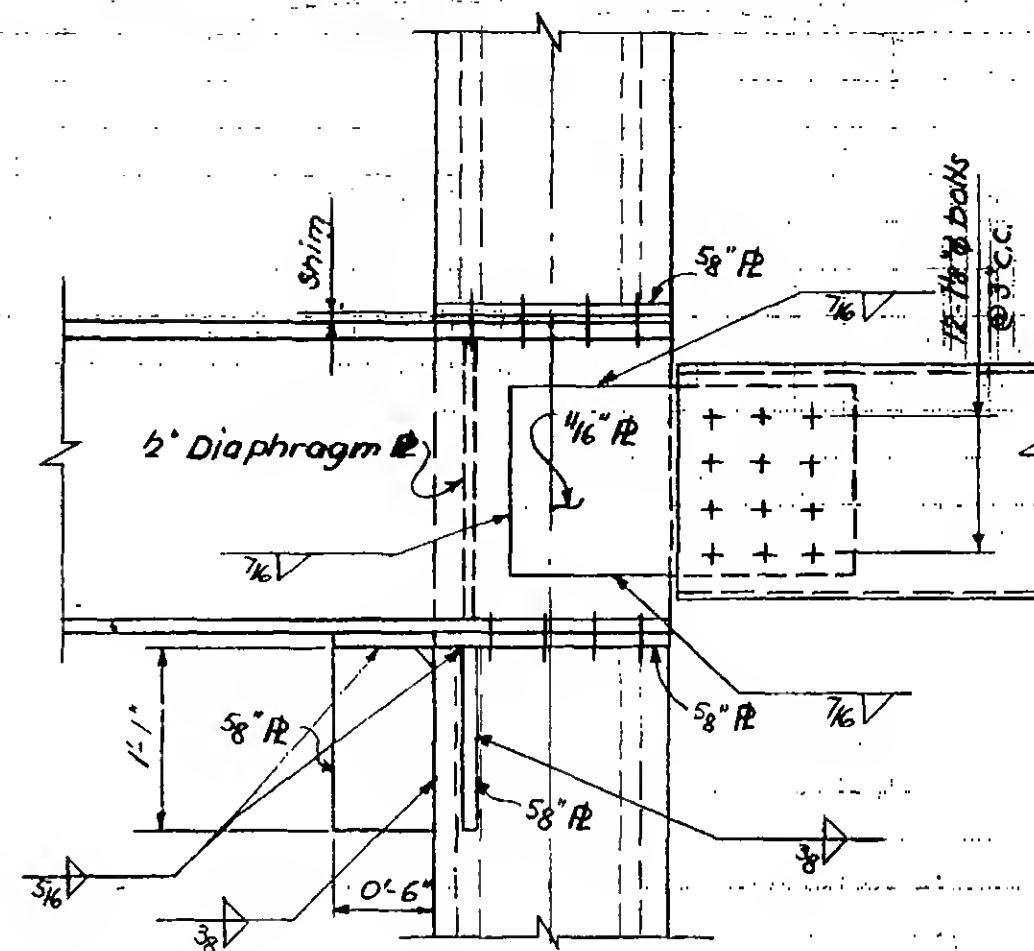


REVISIONS

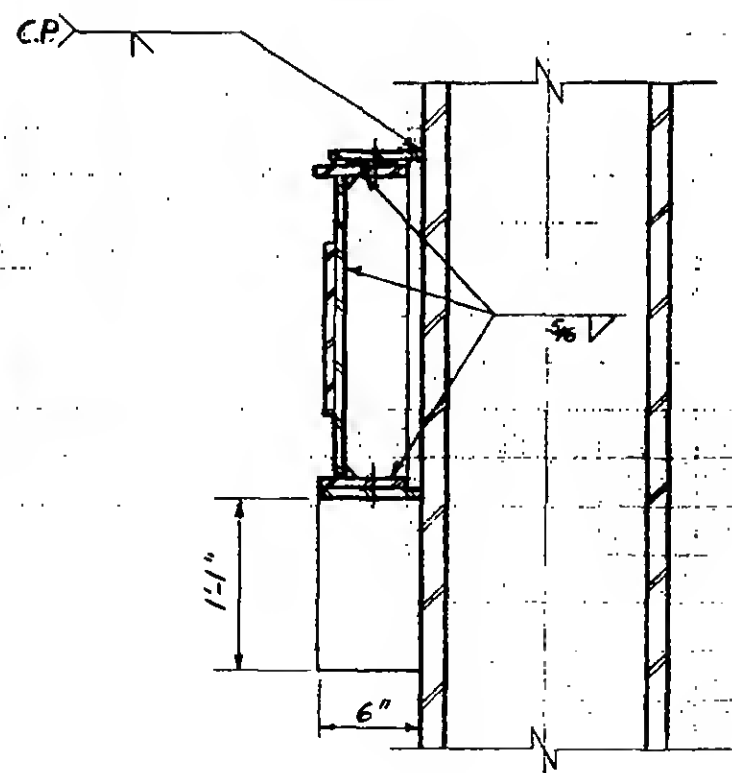
10-5-67



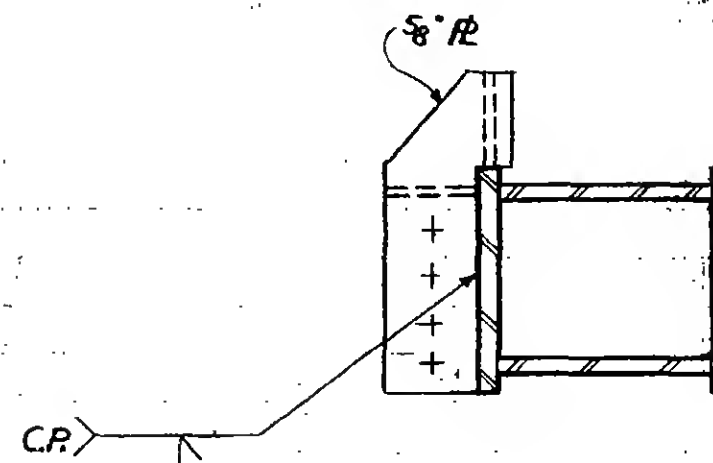
Plan



Section a-a



Section b-b



Seat Plate detail



PROJECT

THE HUNTER HOUSE

TITLE

FOUNDATION

FIG. A & B

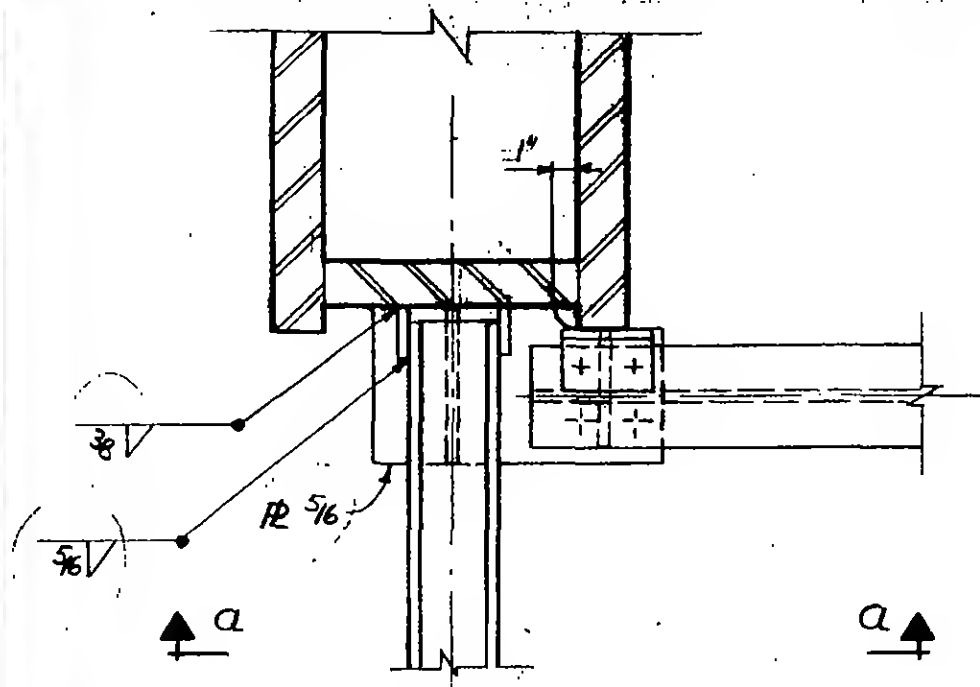
DATE

5-22-67

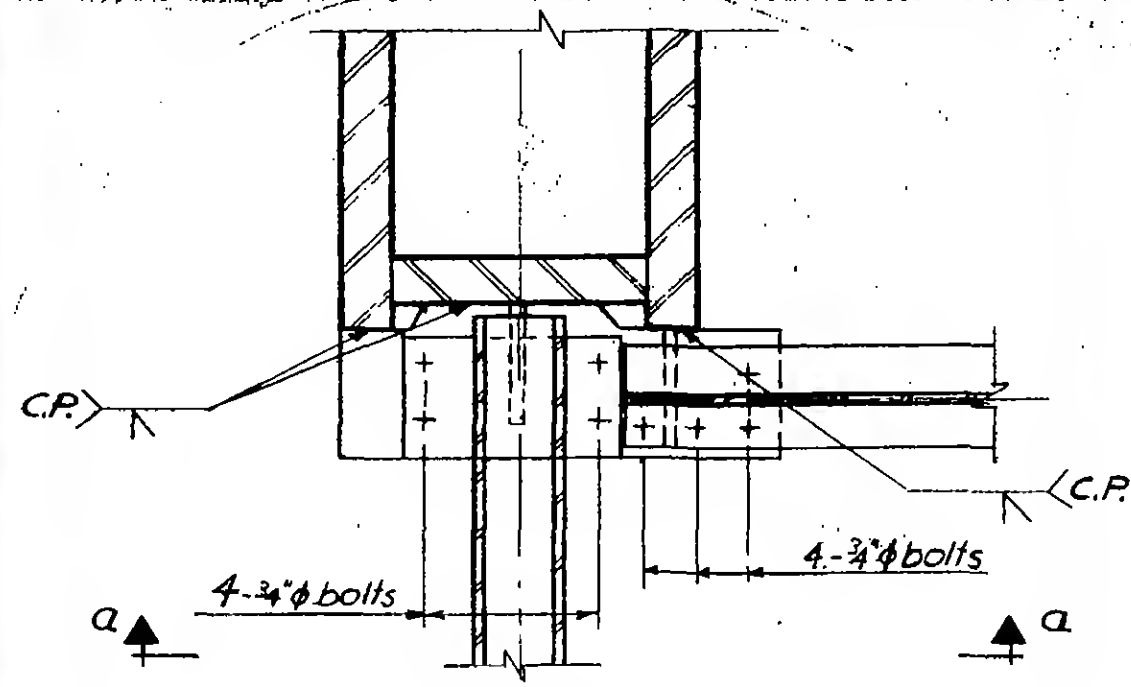
REVISIONS

7-28-67

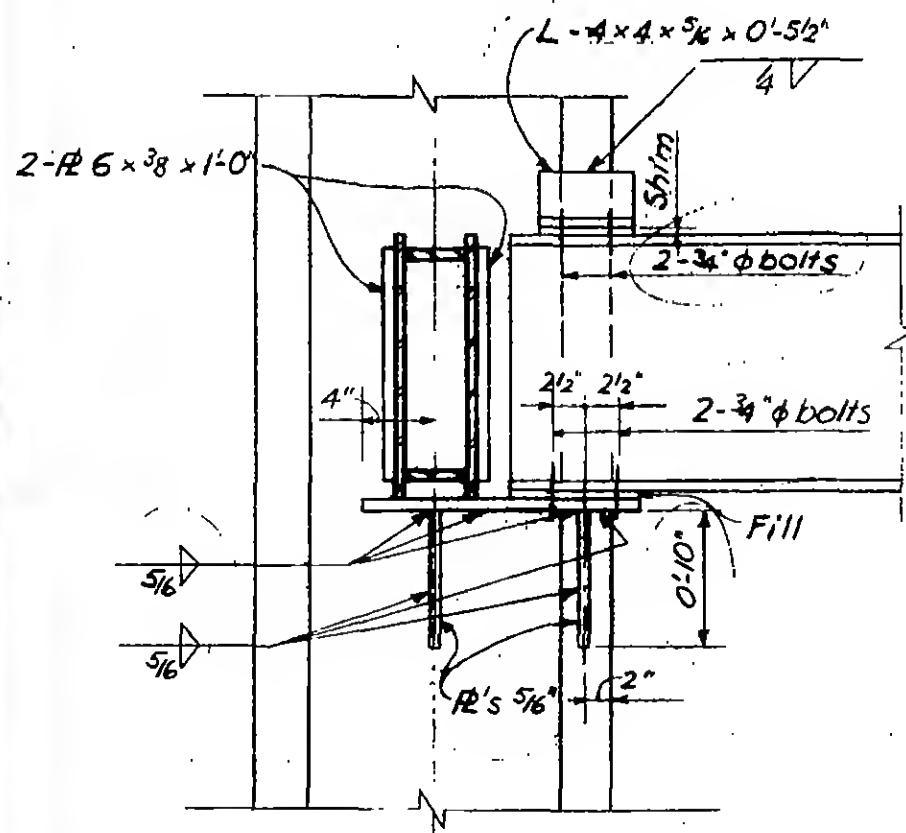
10-2-67



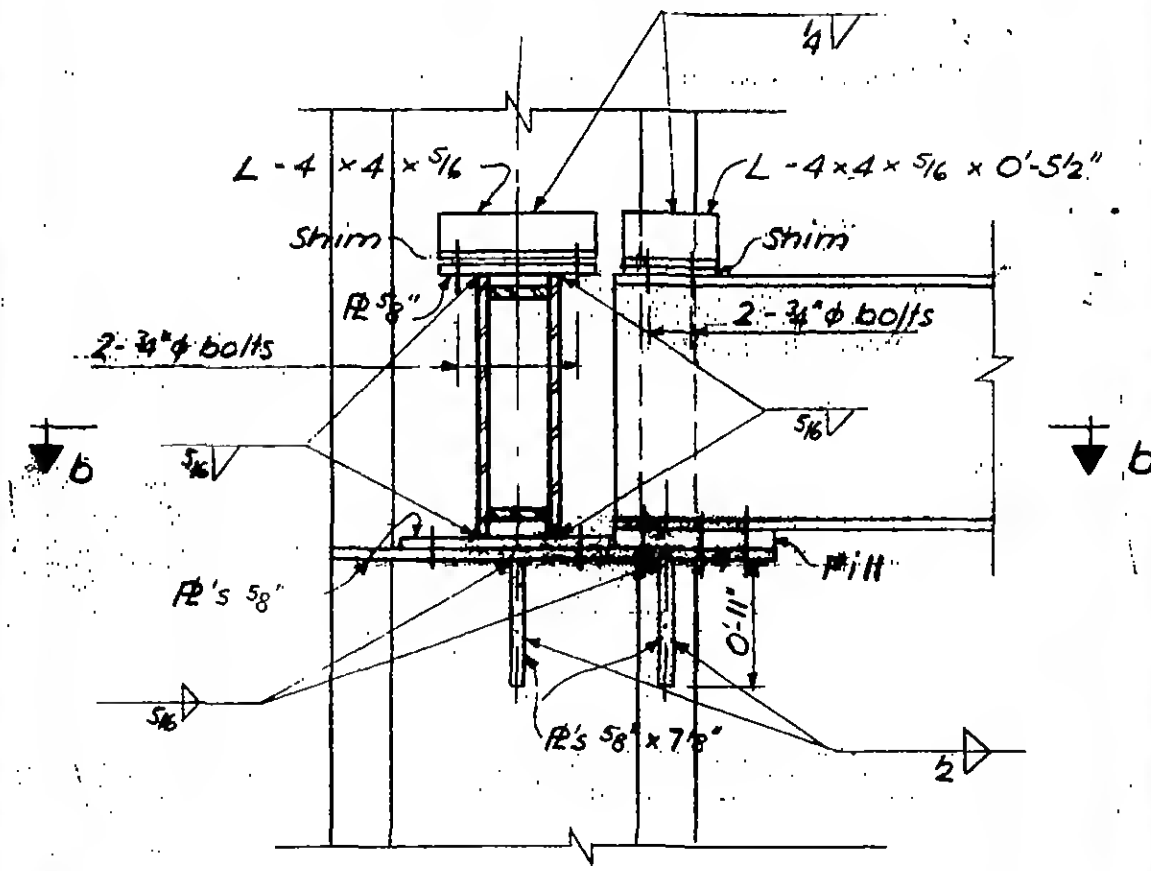
Plan
Detail 265 A



Plan b-b
Detail 265 B

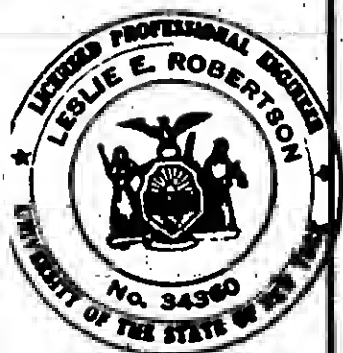


Section a-a



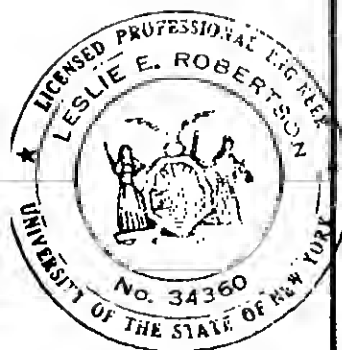
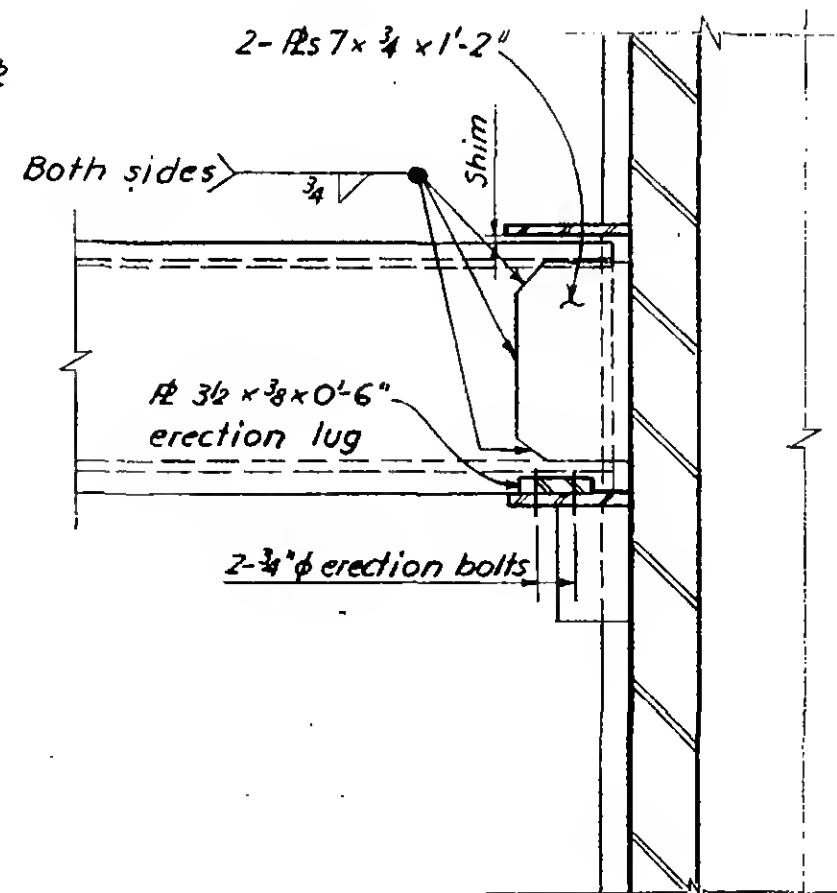
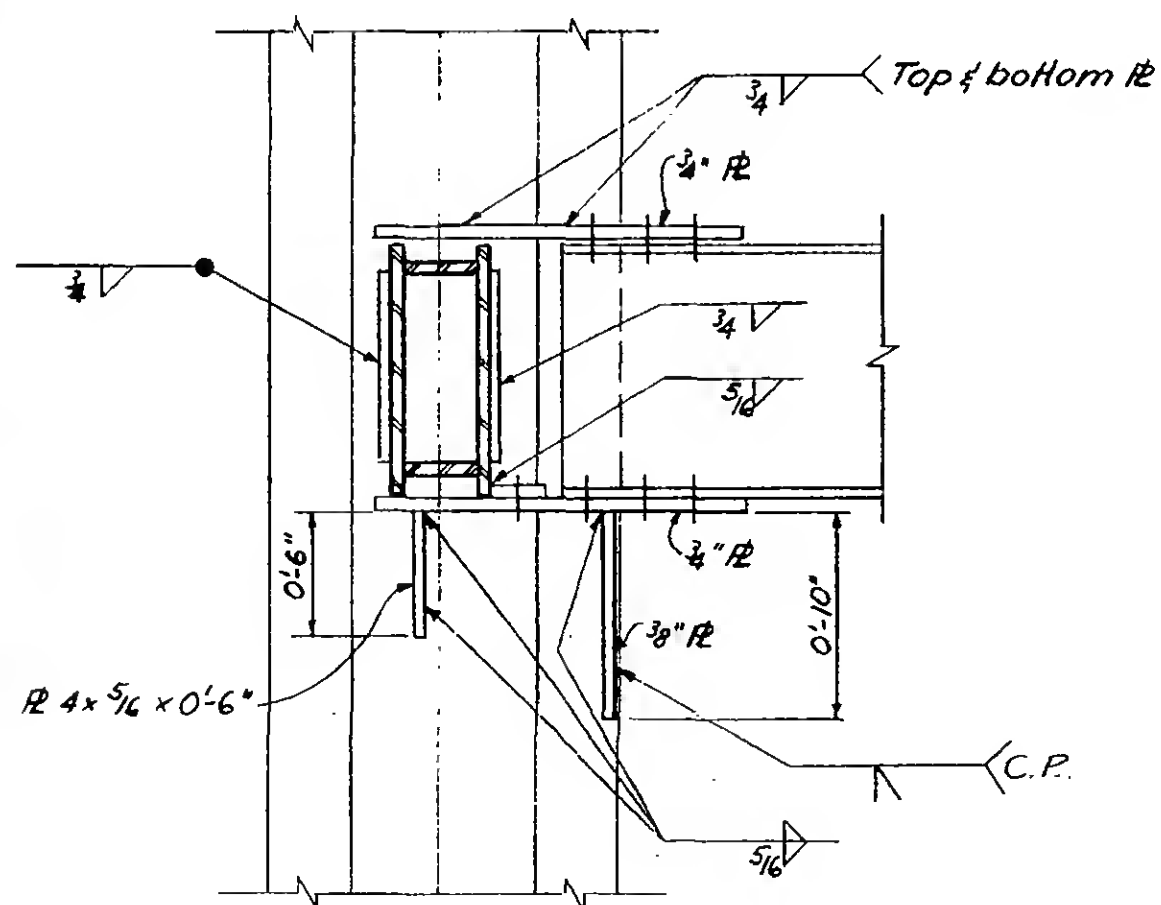
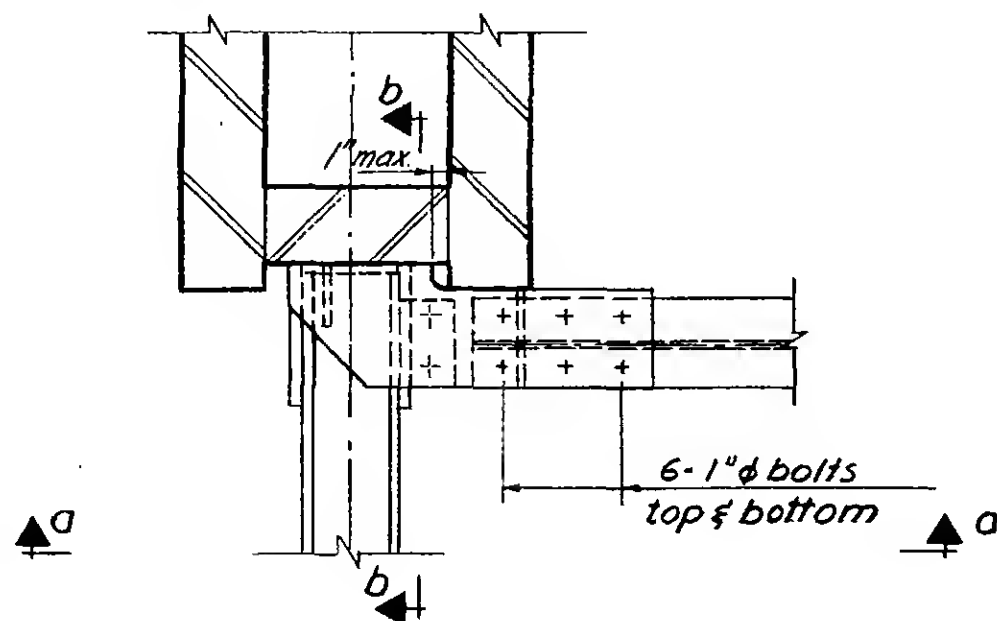
Section a-a

6-ABI-70

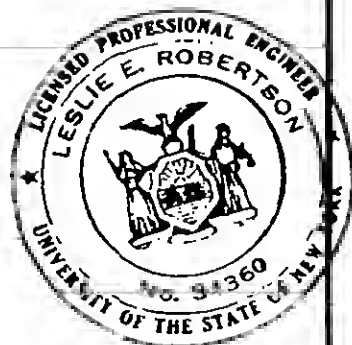
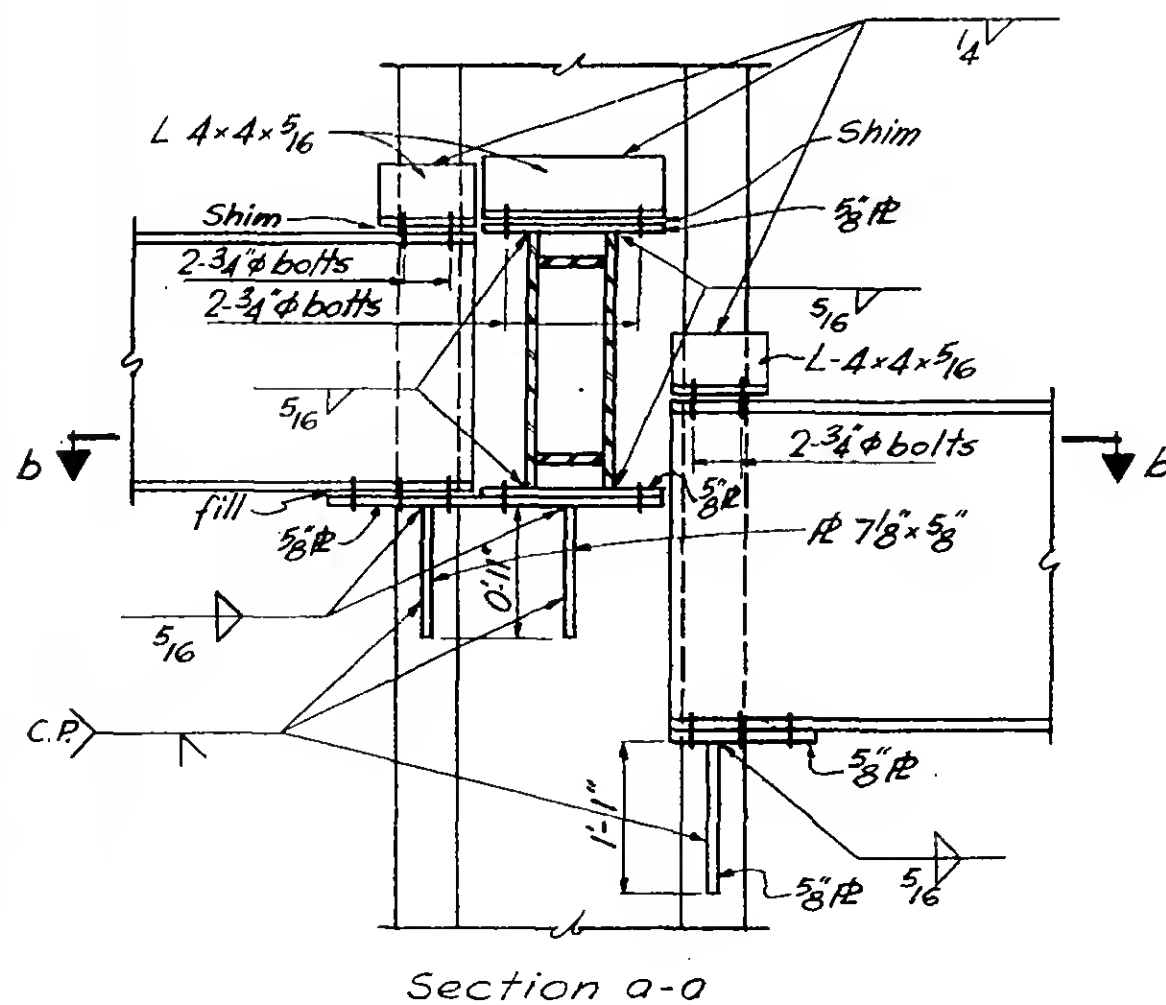
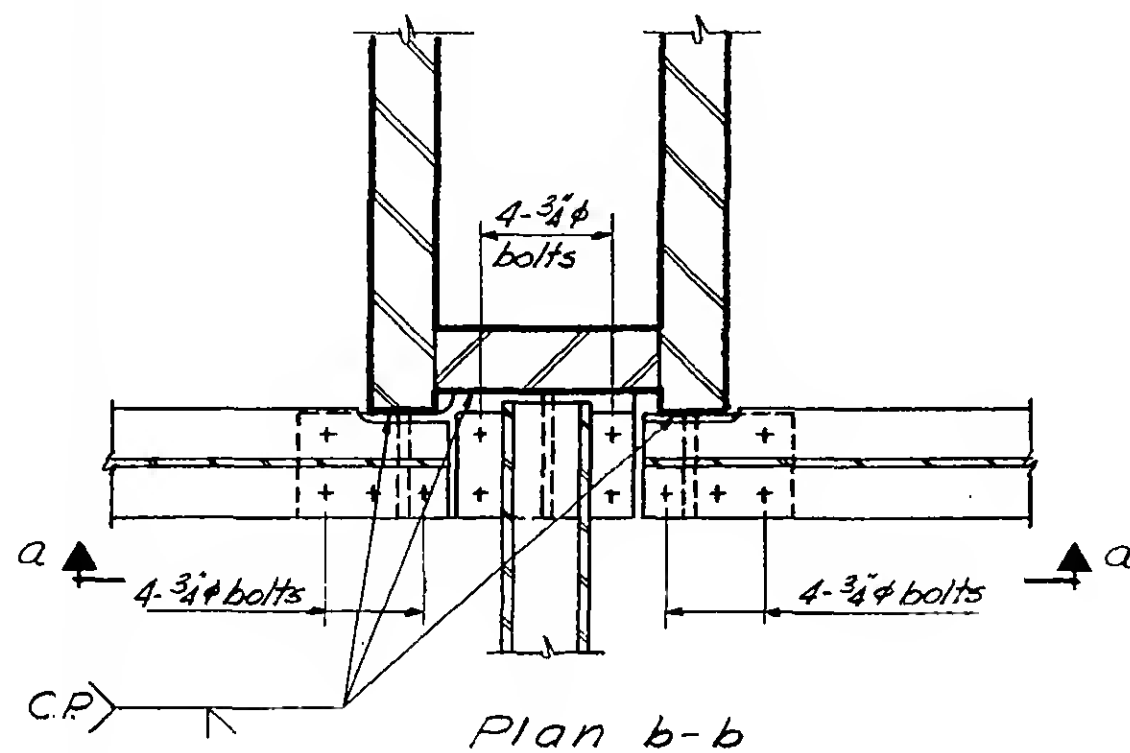


PROJECT: THE WORLD TRADE CENTERTITLE: CONNECTION DETAIL 265CDATE: 2-9-68

REVISIONS



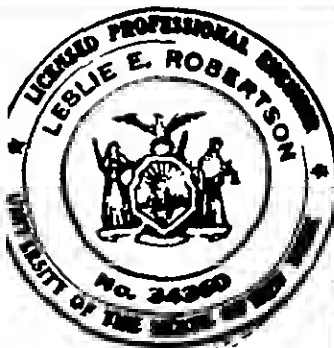
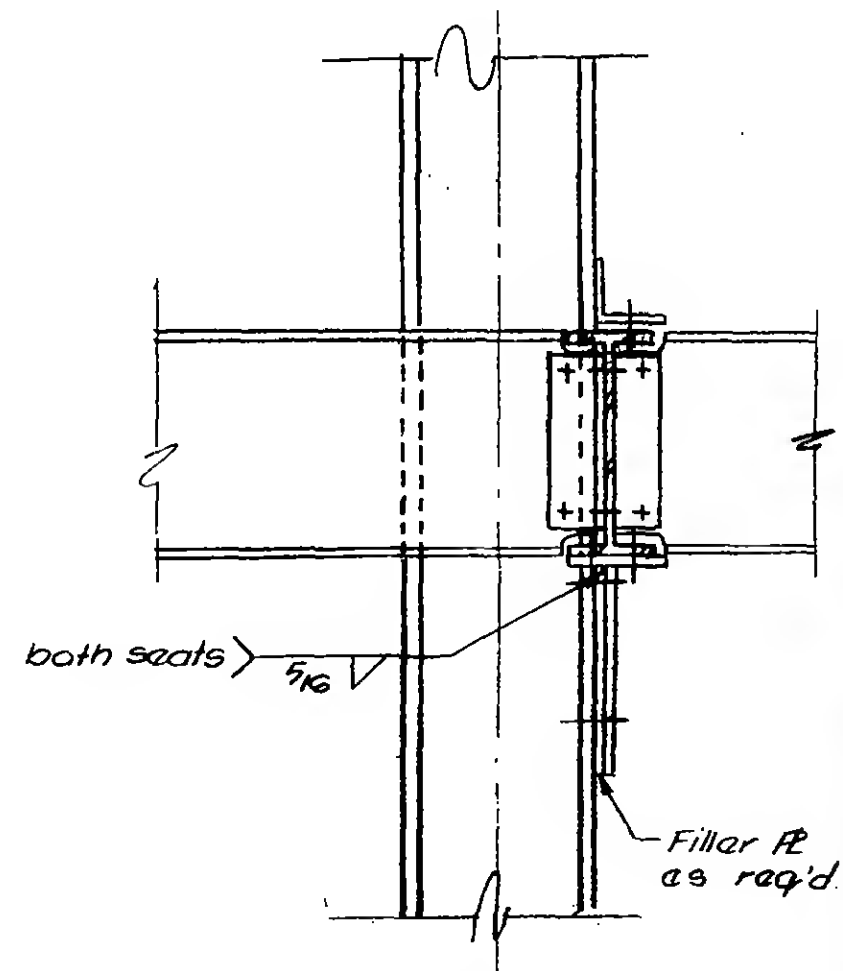
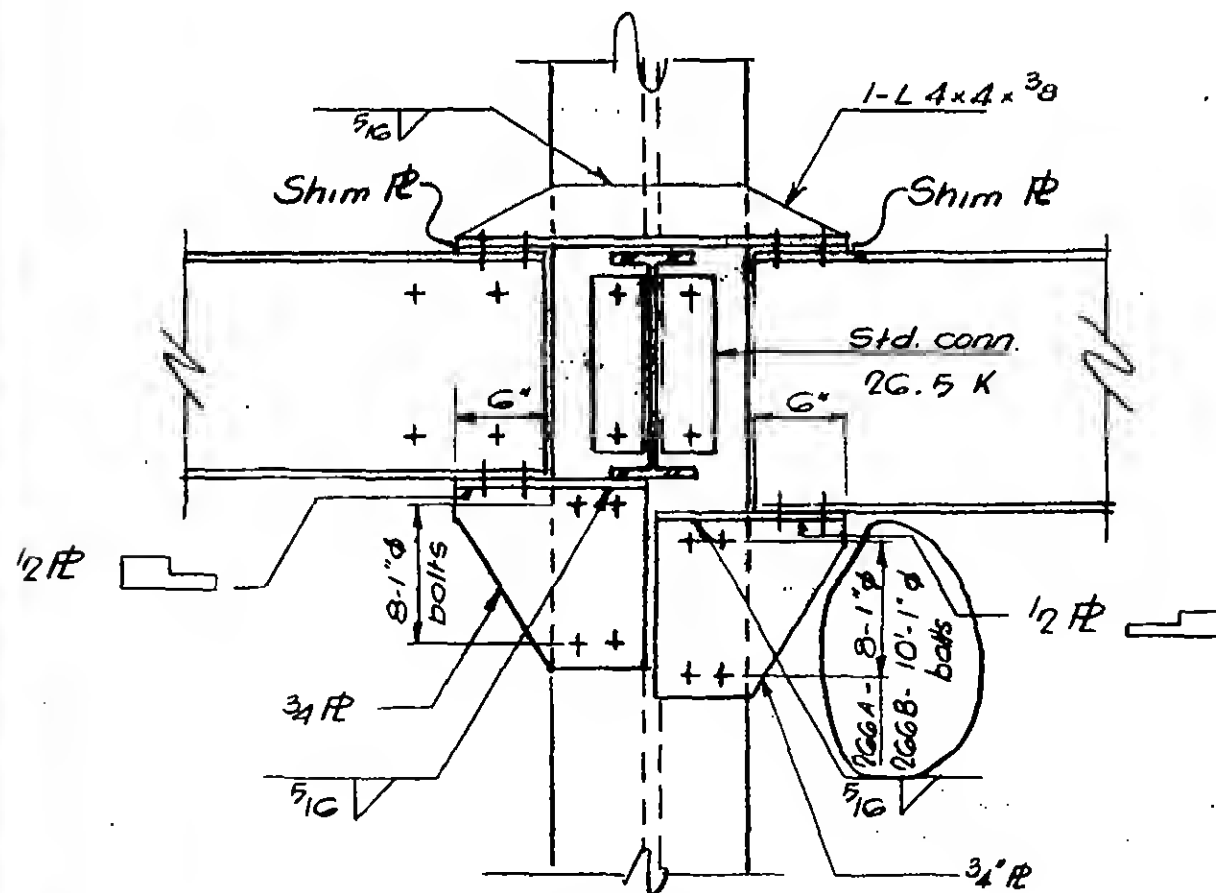
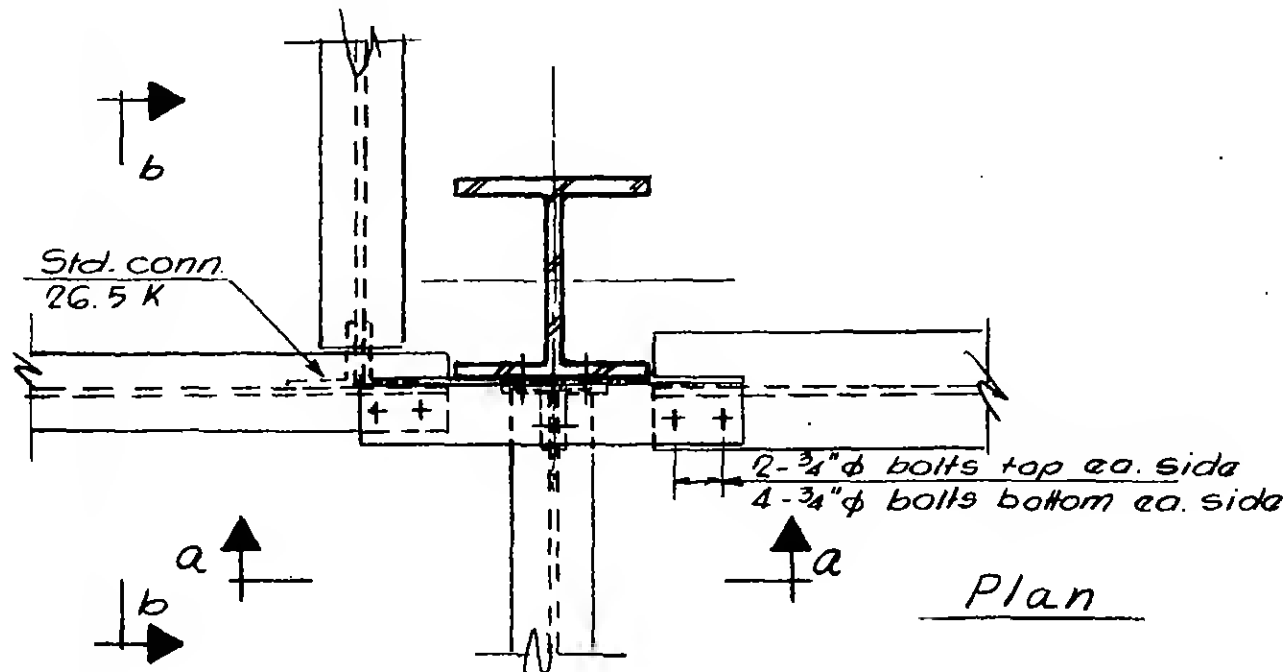
REVISIONS



REVISIONS

10-5-67

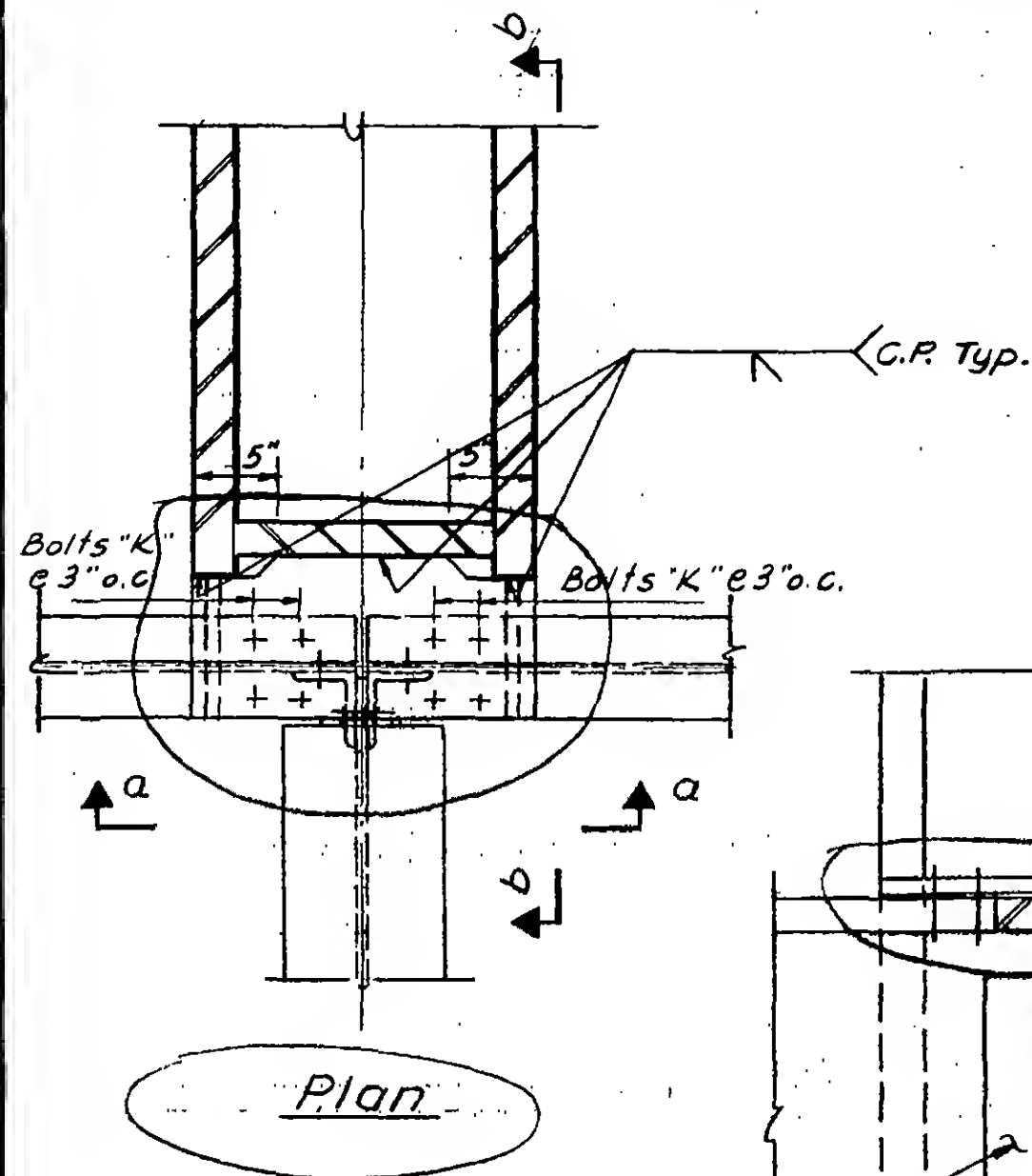
11-27-68



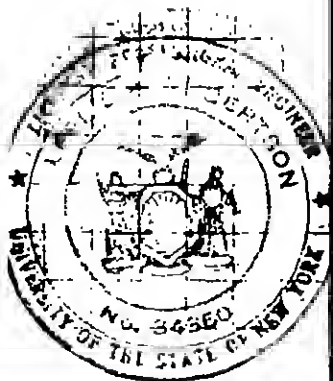
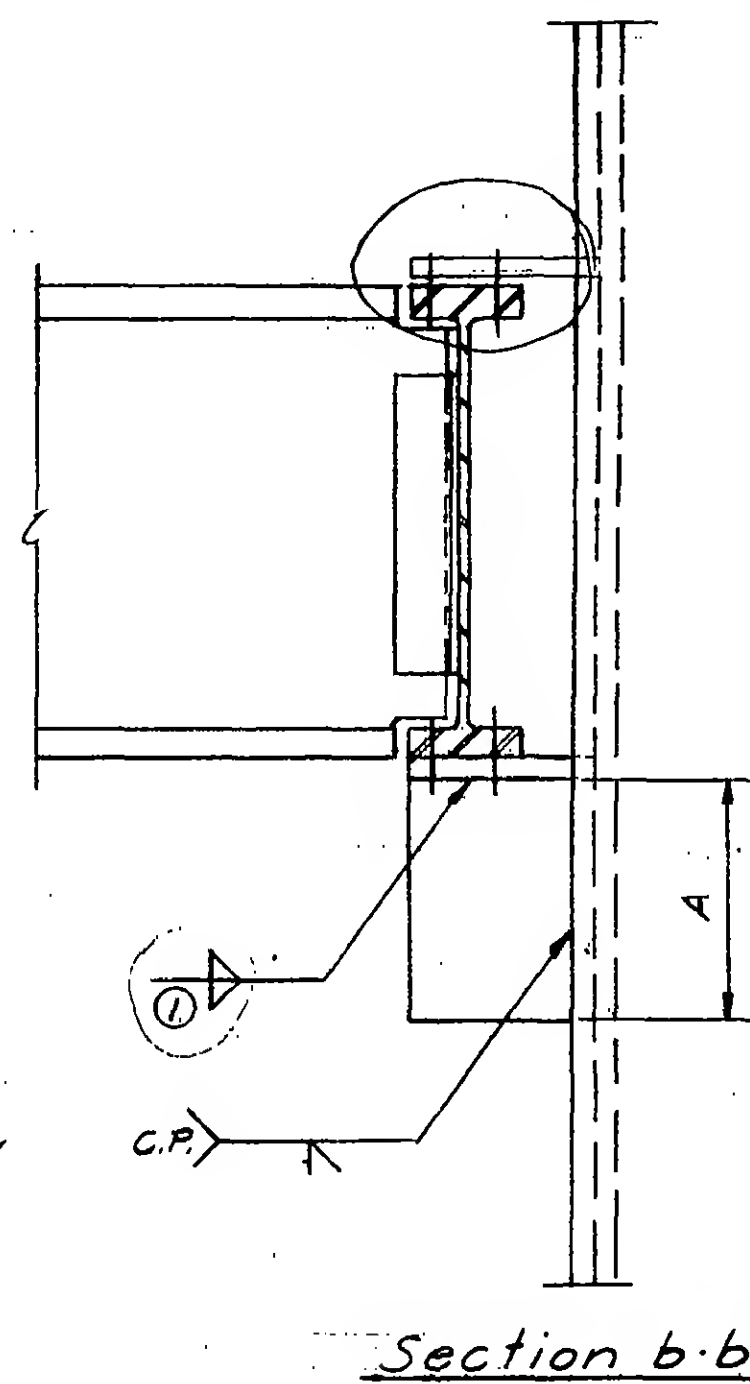
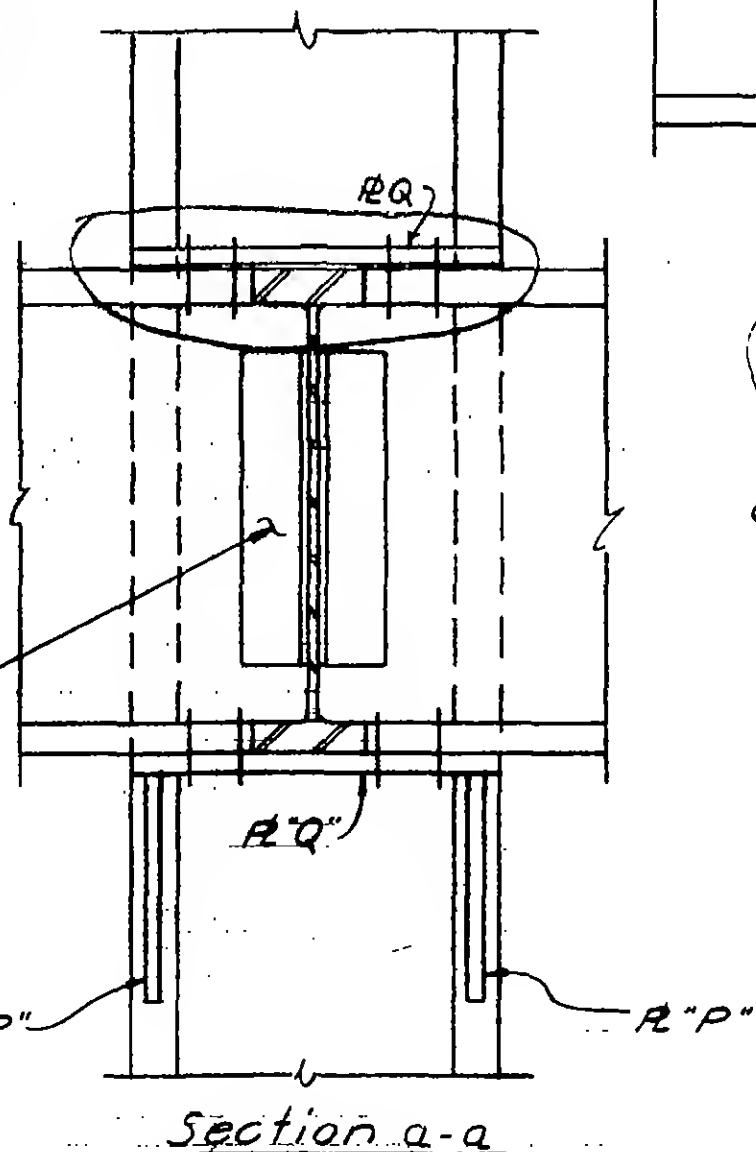
REVISIONS

9-15-67

11-10-67



Standard conn's
 $R = 58K$ for 267A
 $R = 27K$ for 267B



Structural & Civil Engineers

PROJECT

THE WORLD TRADE CENTER

TITLE

SCHEDULE FOR DETAIL 267A & B

DATE _____

9-15-67

REVISIONS

11-10-67

267A

267.B

PLATES:

P P

34

58

AC

34

58

DIMENSIONS:

"A"

1' 3"

$$0^{\circ} - 10^{\circ}$$

BOLTS:

"K"

4. $3_4 \cdot \phi$

4. $\frac{3}{4}'' \phi$

WELDS:

1

51

5.6

G-ABI-72.1

PROJECT

THE WORLD TRADE CENTER

TITLE

CONNECTION DETAIL 268A

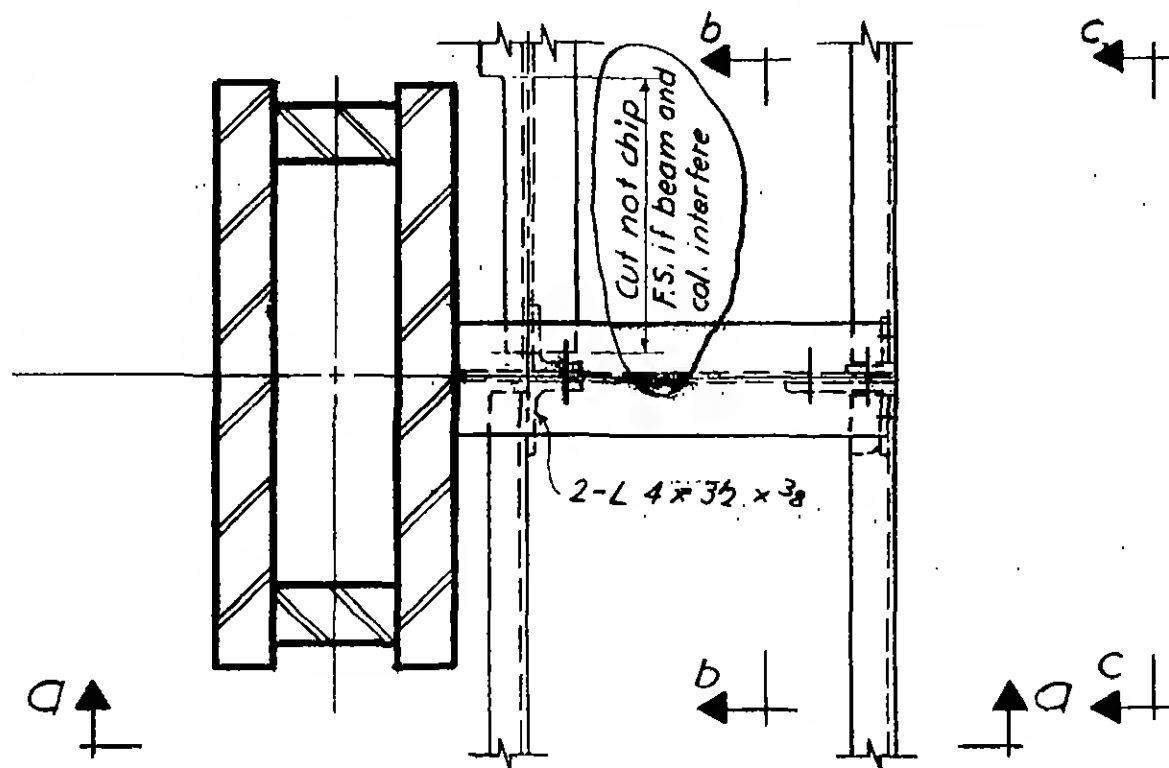
DATE

7/14/67

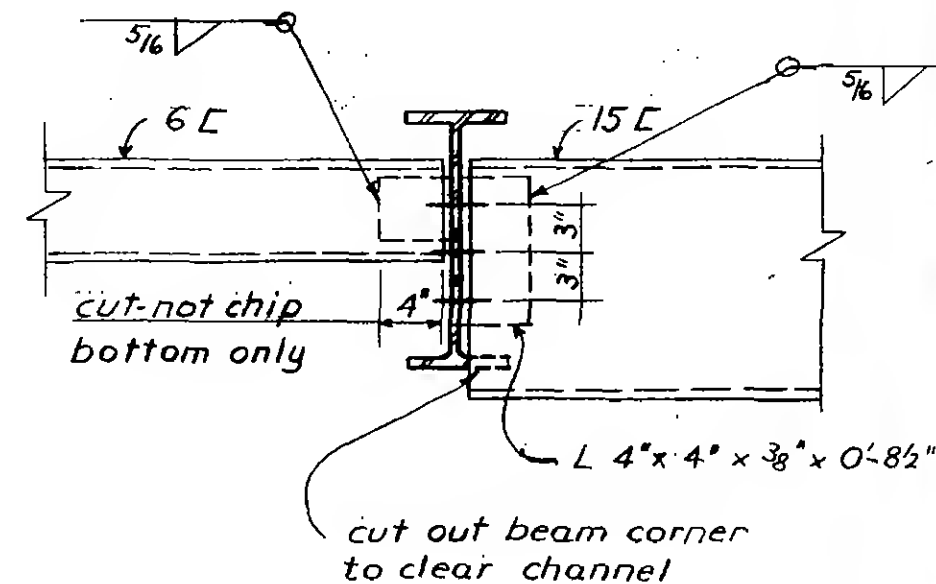
REVISIONS

8-5-67

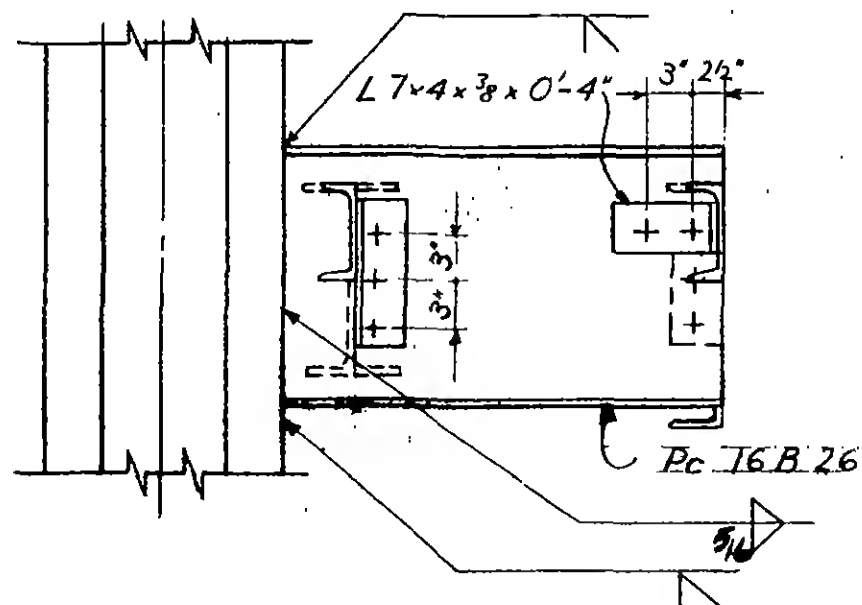
11-16-67



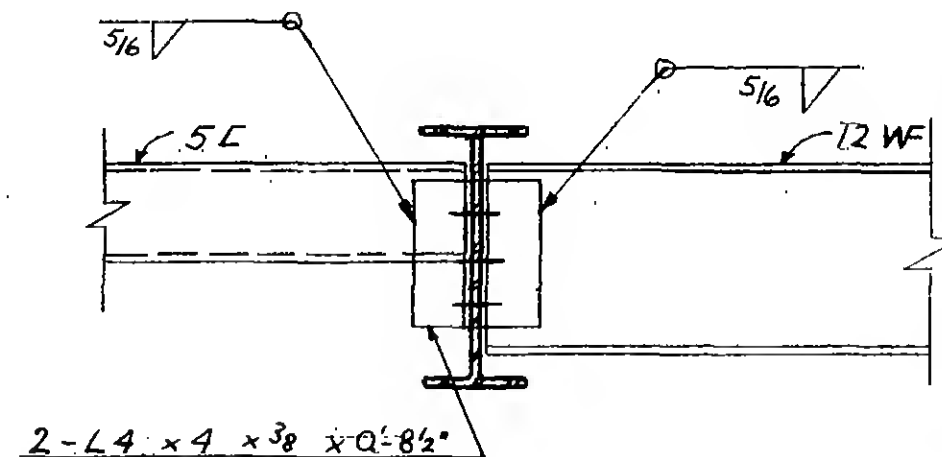
Plan



Section c-c

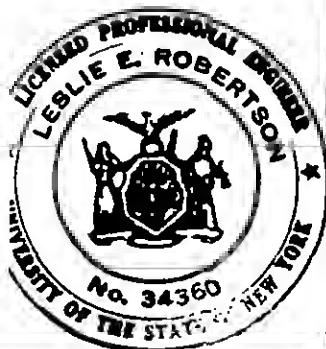


Section a-a



Section b-b

All bolts 3/4\"



WORTHINGTON, SKILLING, HELLE & JACKSON

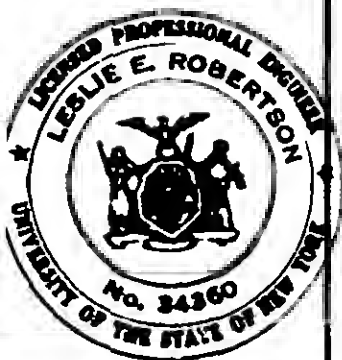
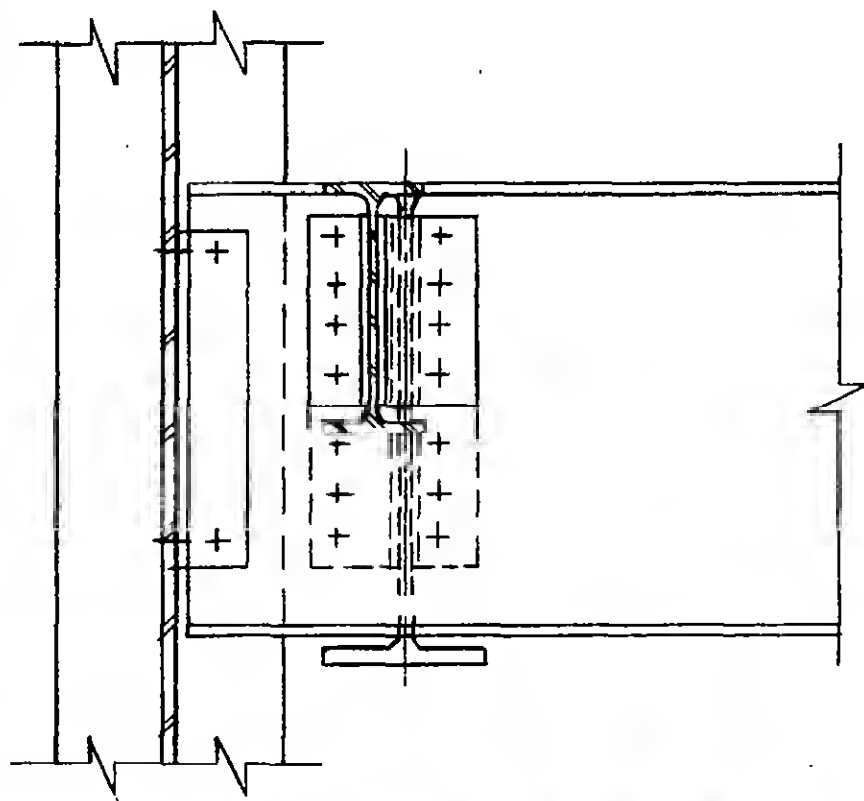
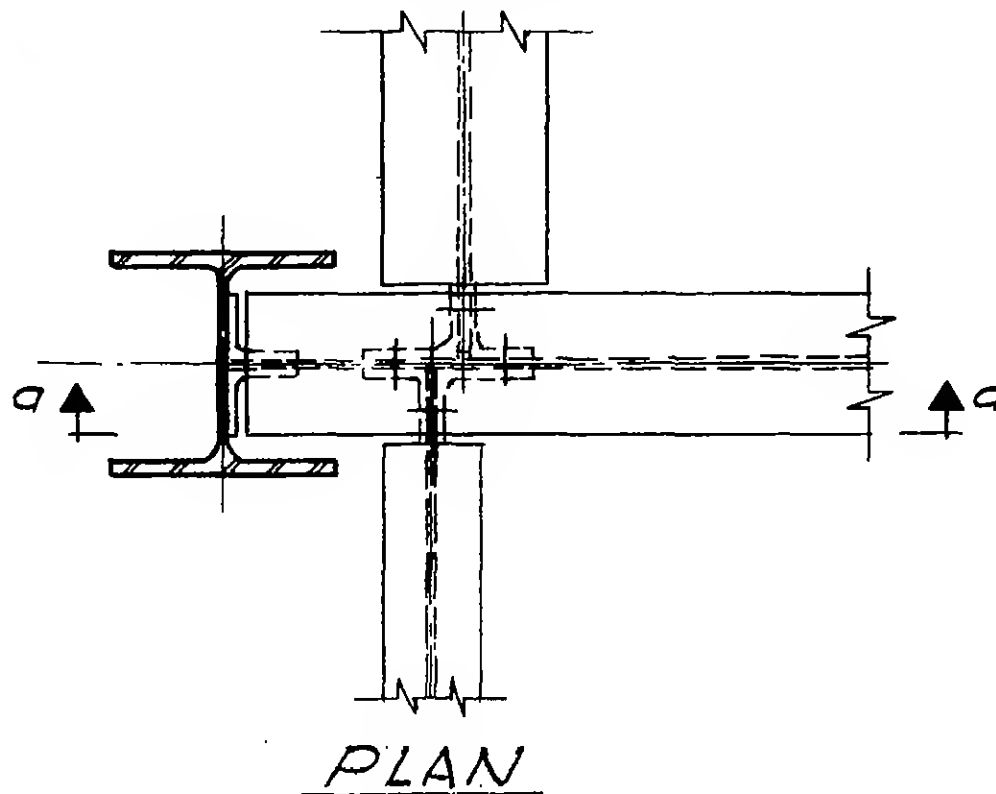
Civil & Structural Engineers

PROJECT THE WORLD TRADE CENTER

TITLE CONNECTION DETAIL 269

DATE 7/20/67

REVISIONS

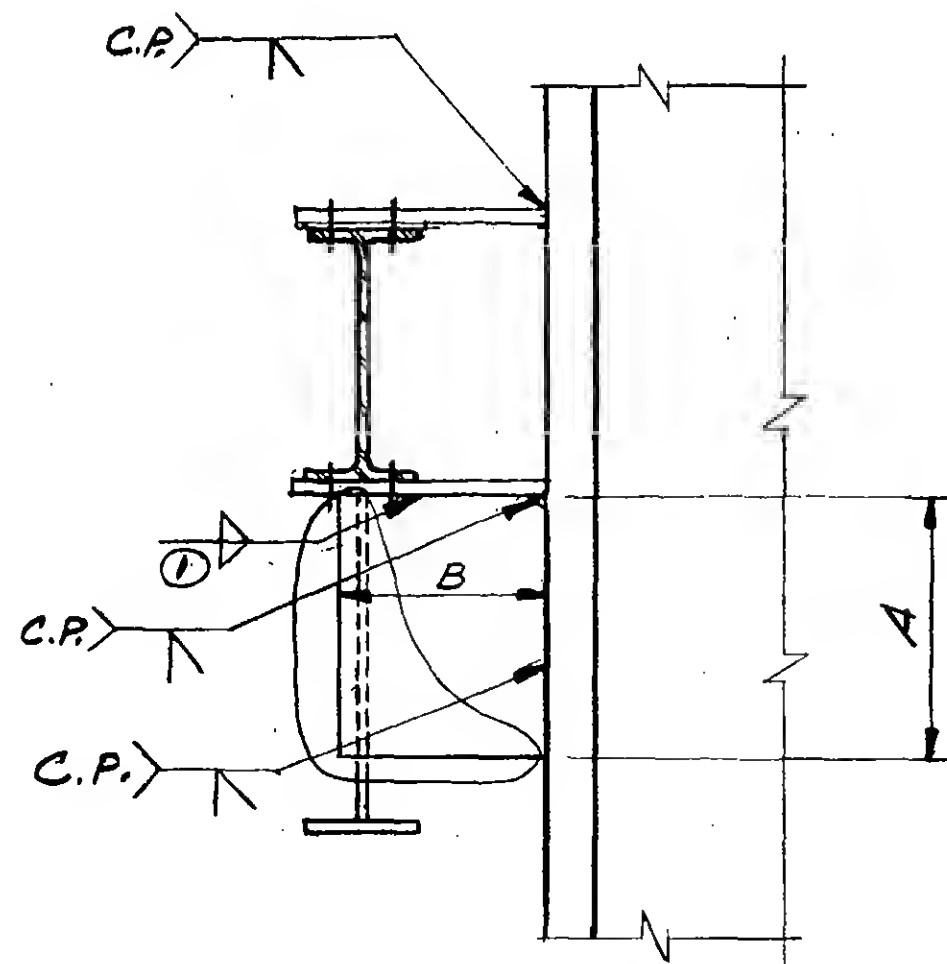
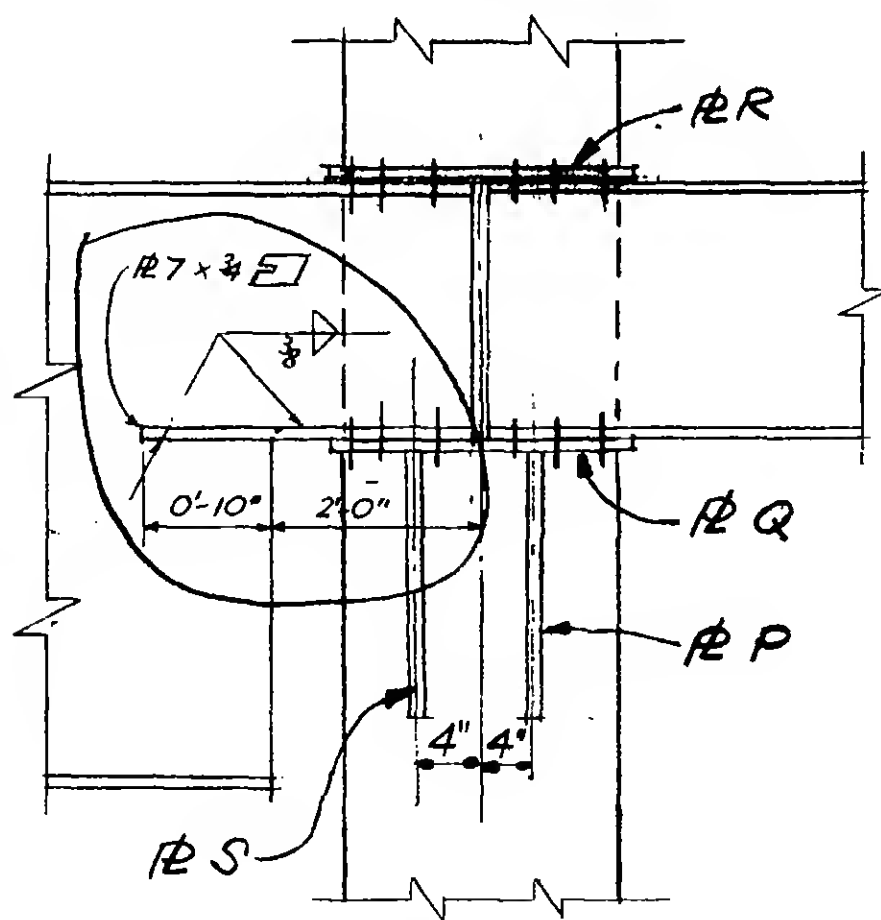
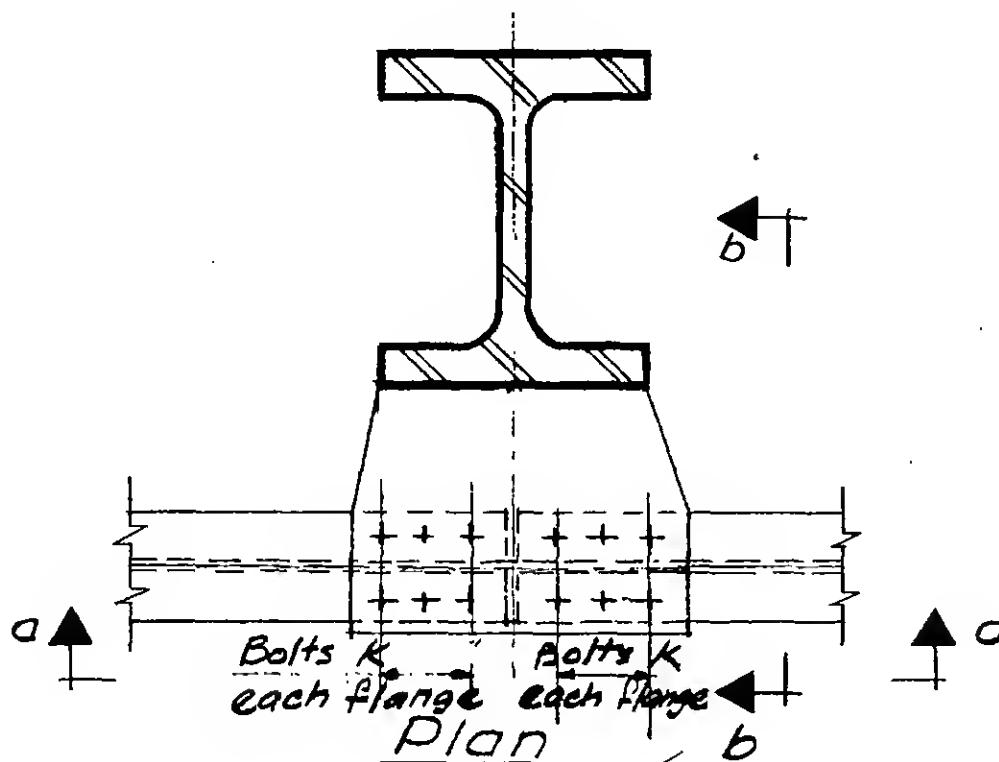


6-ABI-74

REVISIONS

9-15-67

11-10-67



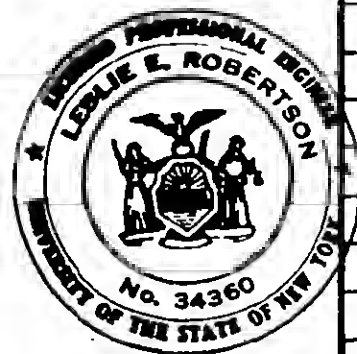
Structural & Civil Engineers

TITLE SCHEDULE FOR DETAIL 270 A

DATE 9-15-67

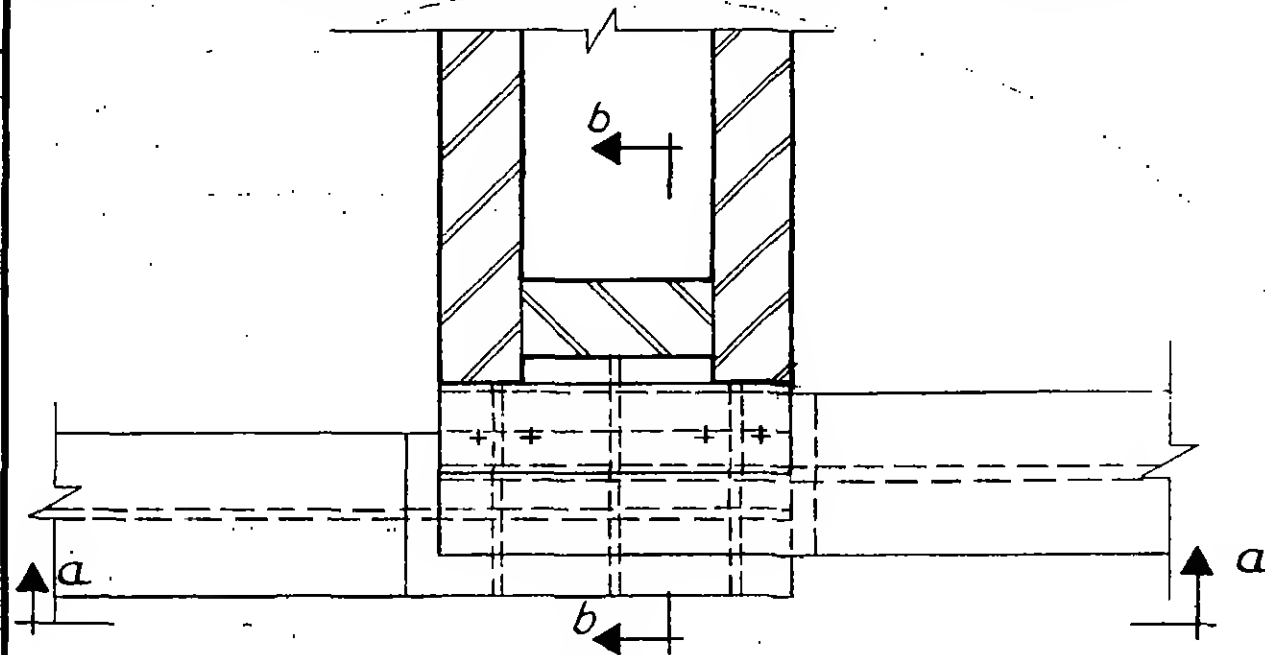
270A						
PLATE						
P	7/8"					
Q	3/4"					
R	5/8"					
S	3/4"					
DIM.						
A	1'-6"					
B	1'-3"					
BOLT						
K	6-7/8" ϕ					
WELD						
①	3/8					

6-AB/-75.1

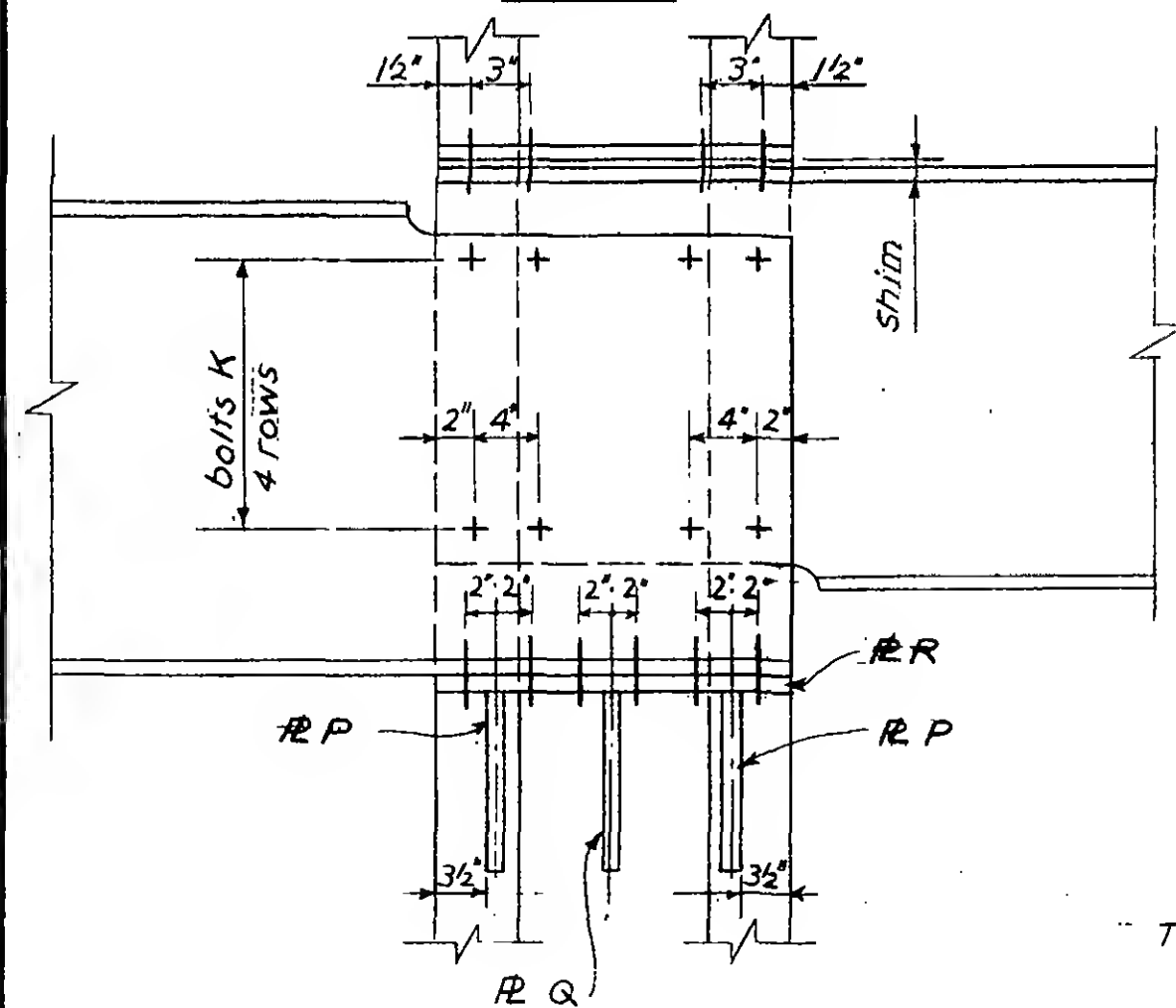


REVISIONS

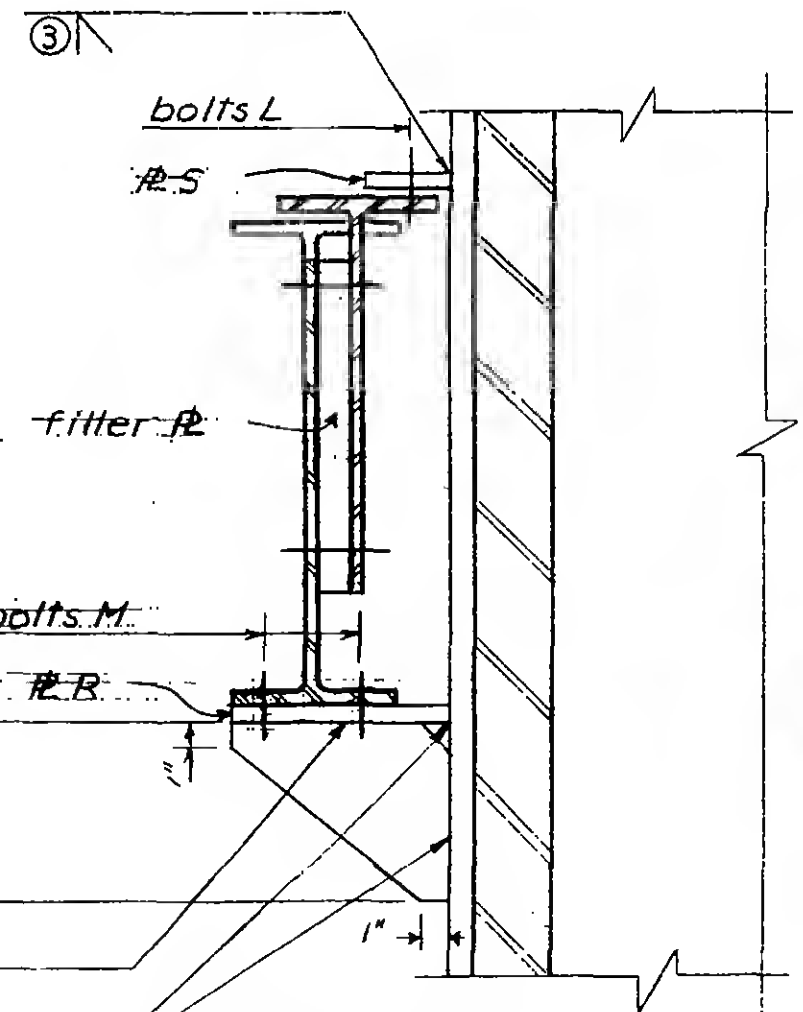
8-5-67



Plan



Section a-a



Section b-b

TYP. ②
TYP. ①



PROJECT THE WORLD TRADE CENTER

TITLE SCHEDULE FOR DETAIL 271

DATE 8-5-67

REVISIONS

	A					
PLATES						
P	1 1/2"					
Q	1"					
R	1"					
S	1/2"					
DIMENSIONS						
A	1'-2"					
BOLTS						
K	7 - 3/4" ϕ					
L	4 - 3/4" ϕ					
M	12 - 3/4" ϕ					
WELDS						
①	C.P.					
②	1/2					
③	C.P.					



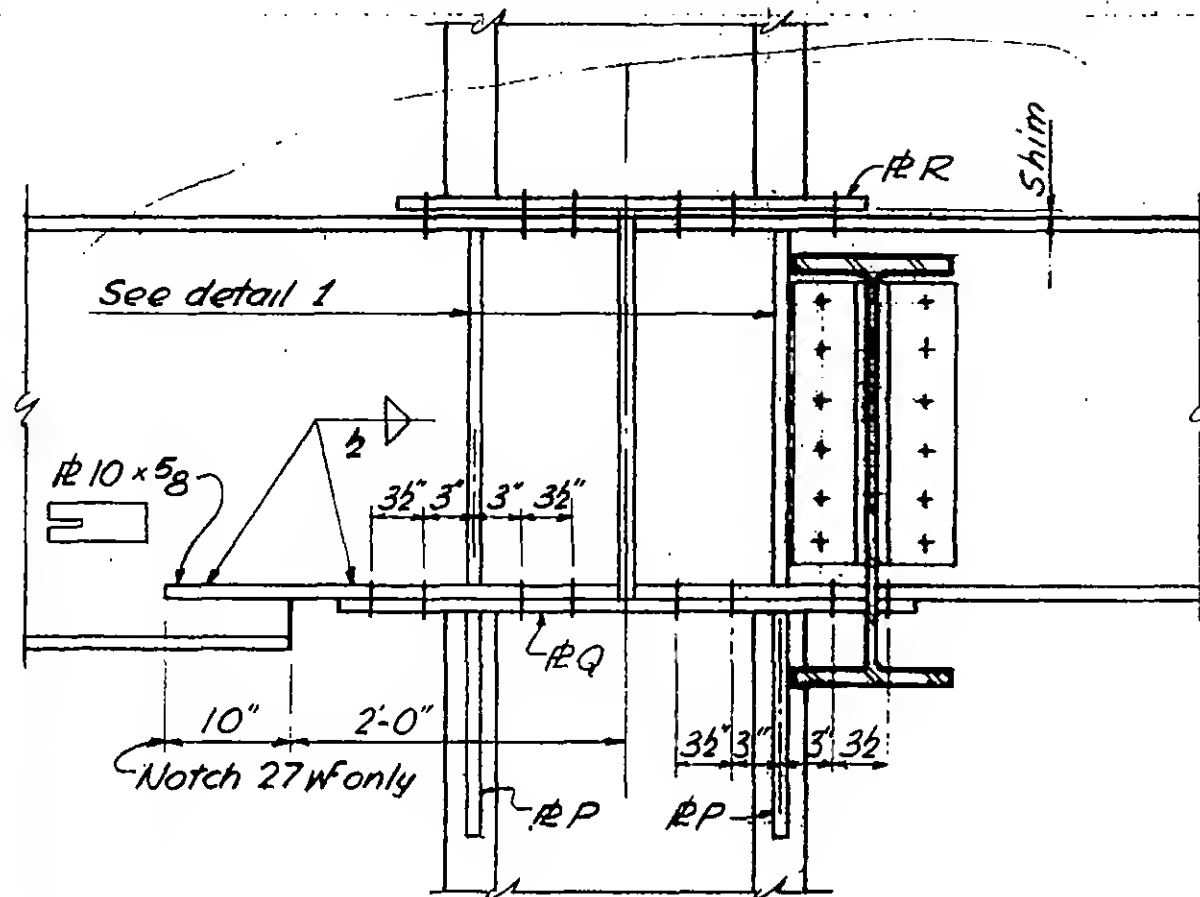
PROJECT THE WORLD TRADE CENTER

TITLE CONNECTION DETAIL 272A

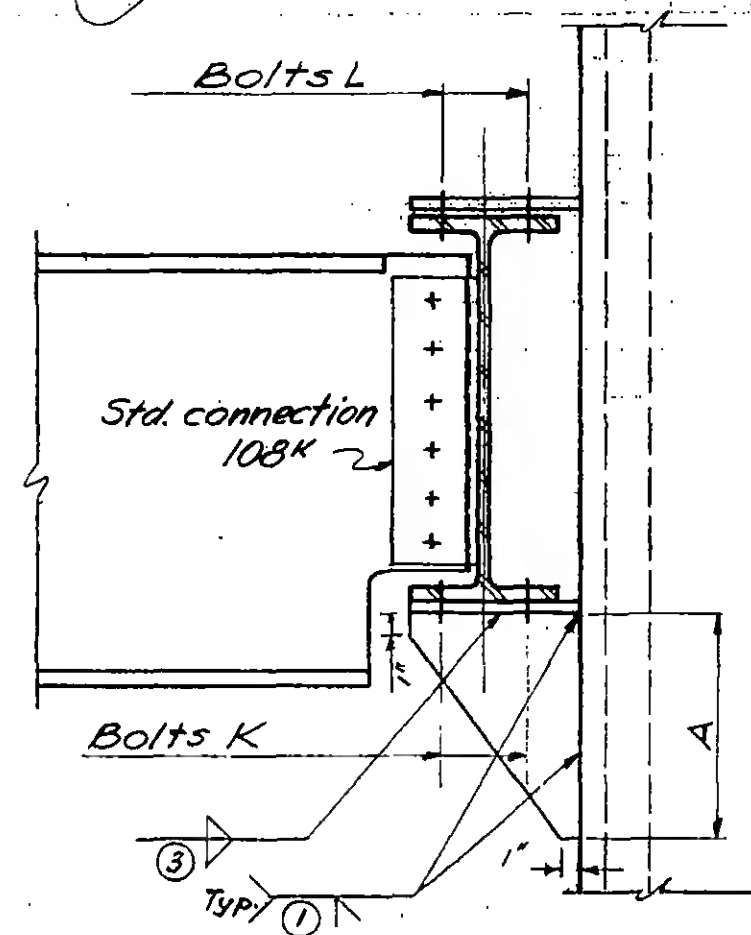
DATE 6-19-67

REVISIONS

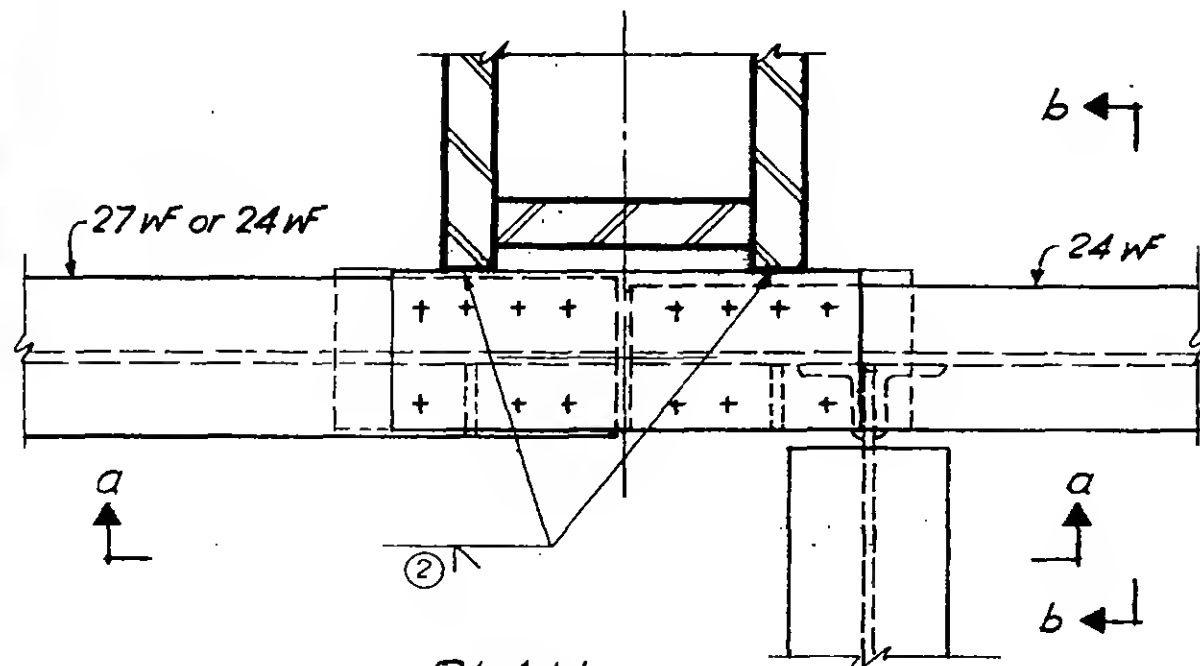
8-5-67



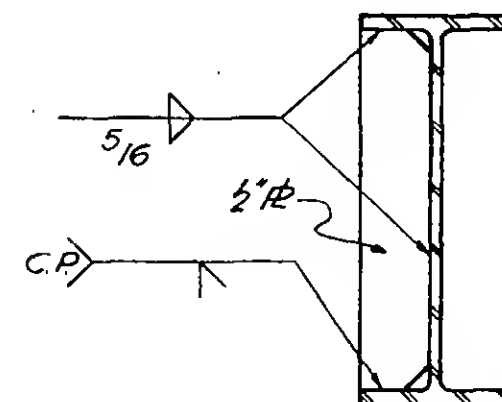
SECTION a-a



SECTION b-b



PLAN



Detail 1



WORTHINGTON, SKILLING, HELLE & JACKSON

Civil & Structural Engineers

PROJECT THE WORLD TRADE CENTER

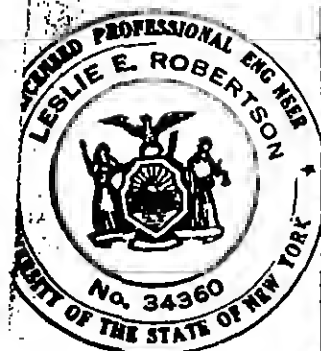
TITLE SCHEDULE FOR DETAIL 272 A, C, D, G

DATE 10-1-68

REVISIONS

9-18-68

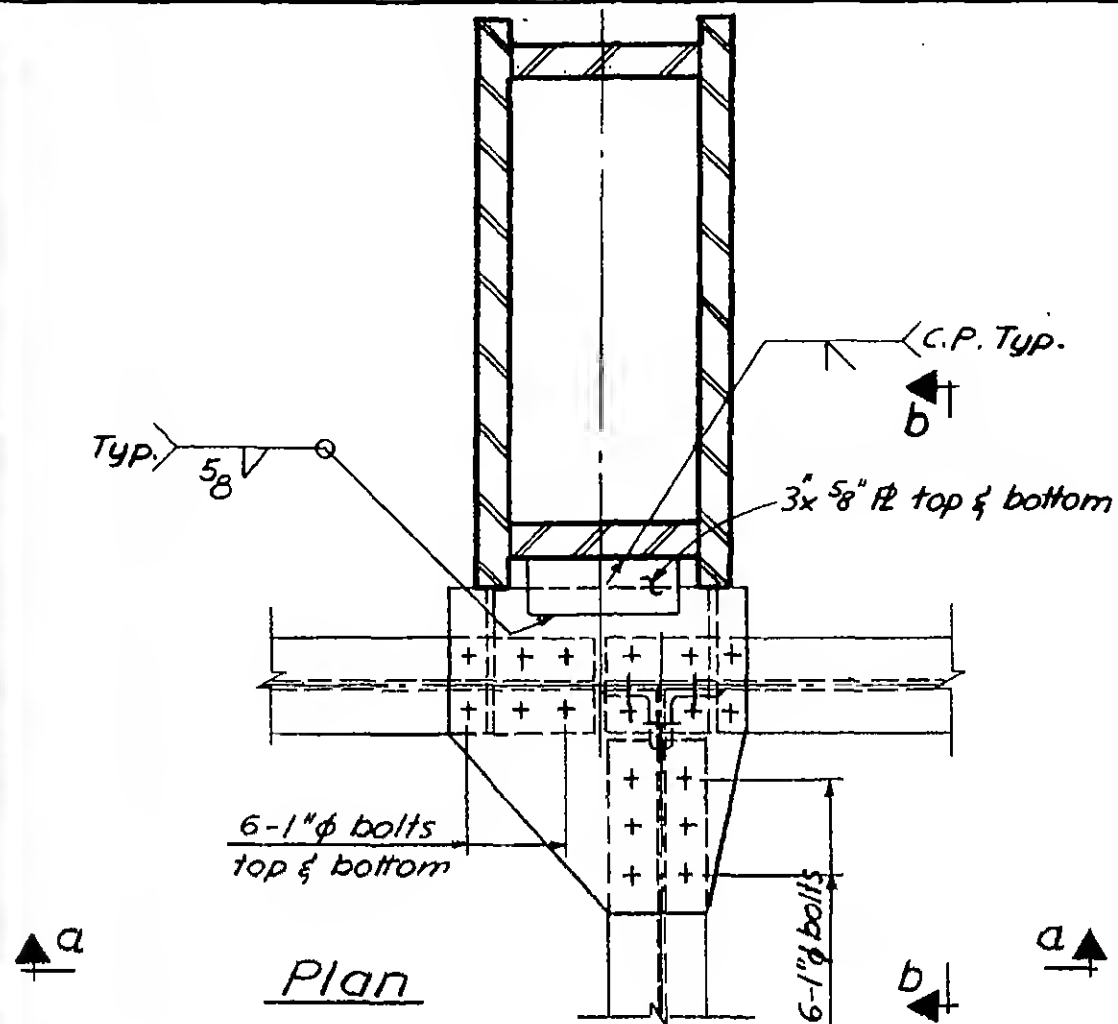
	272 A	272 C, D, G				
PLATES						
P	1"	3/4"				
Q	1"	1"				
R	1"	1"				
DIMENSION						
A	1'-4"	-				
BOLTS						
K	16-1"φ	-				
L	14-1"φ	-				
WELDS						
①	C.P.	-				
②	C.P.	-				
③	2	-				



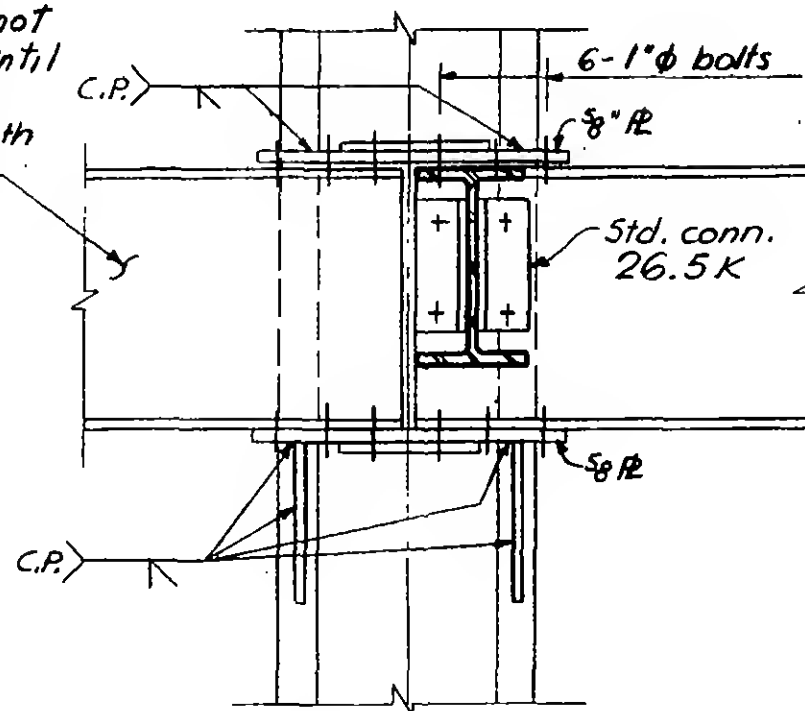
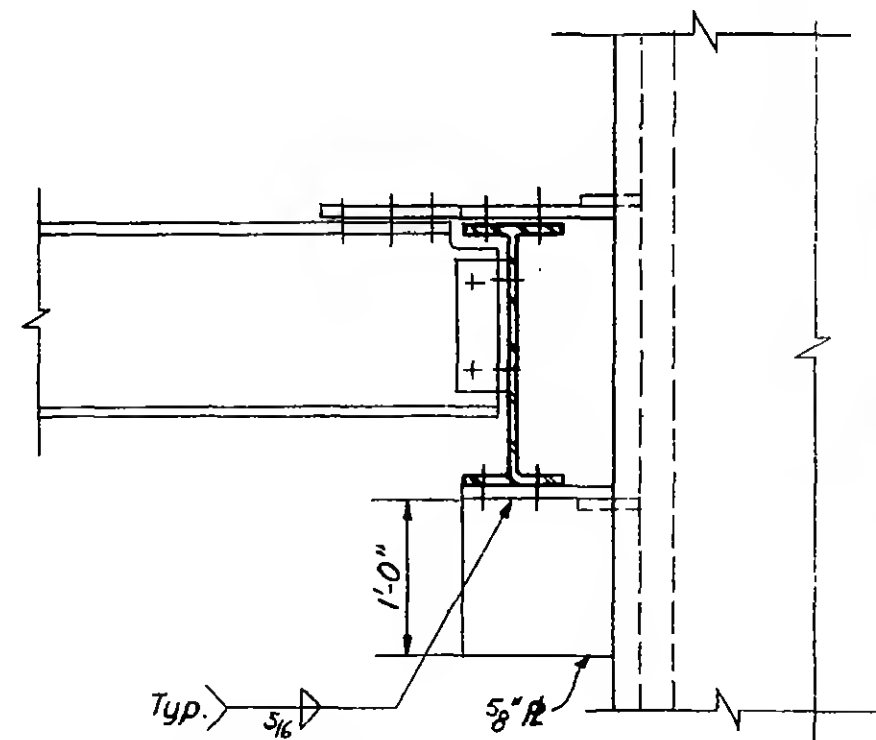
6-ABI-77.1

PROJECT THE WORLD TRADE CENTERTITLE CONNECTION DETAIL 27.2 BDATE 2-9-68

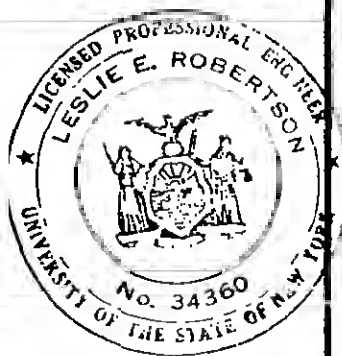
REVISIONS



Beam is not
erected until
removal of
existing path
tube.

Section a-aSection b-b

6-ABI-77.2



PROJECT

THE WORLD TRADE CENTER

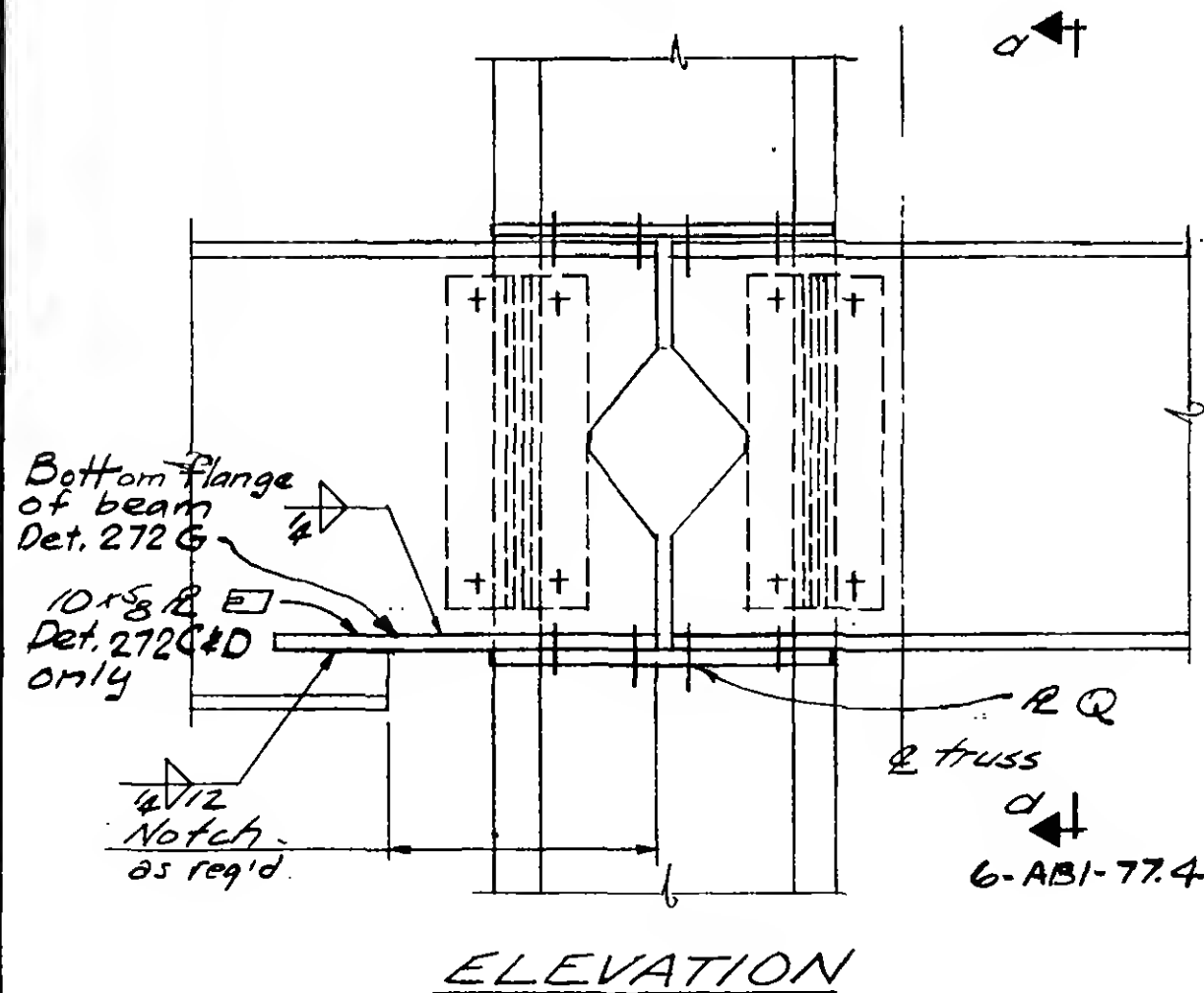
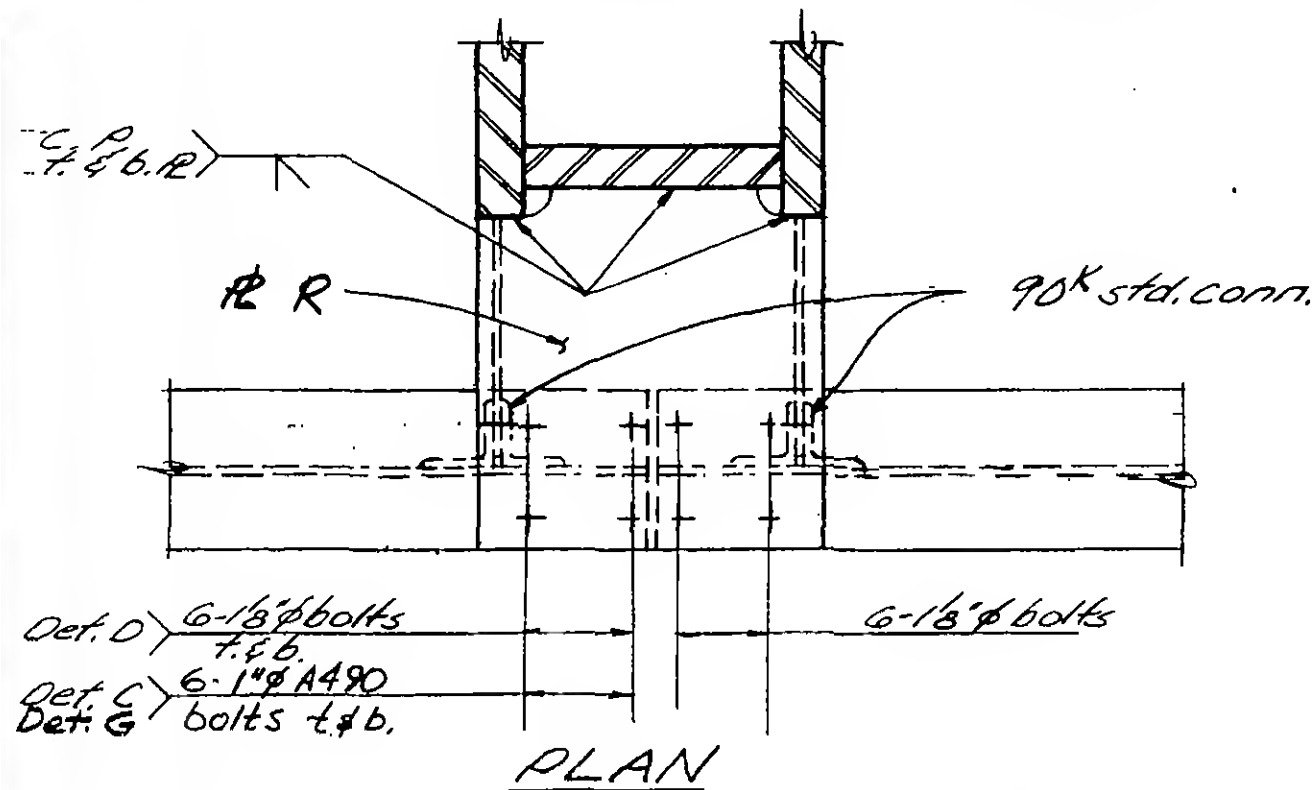
TITLE

CONNECTION DETAIL 272 C, D, G

DATE

9-18-68

REVISIONS



6-ABI-77.4

6-ABI-77.3



DESIGNED

DRAWN

REVIEWED

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

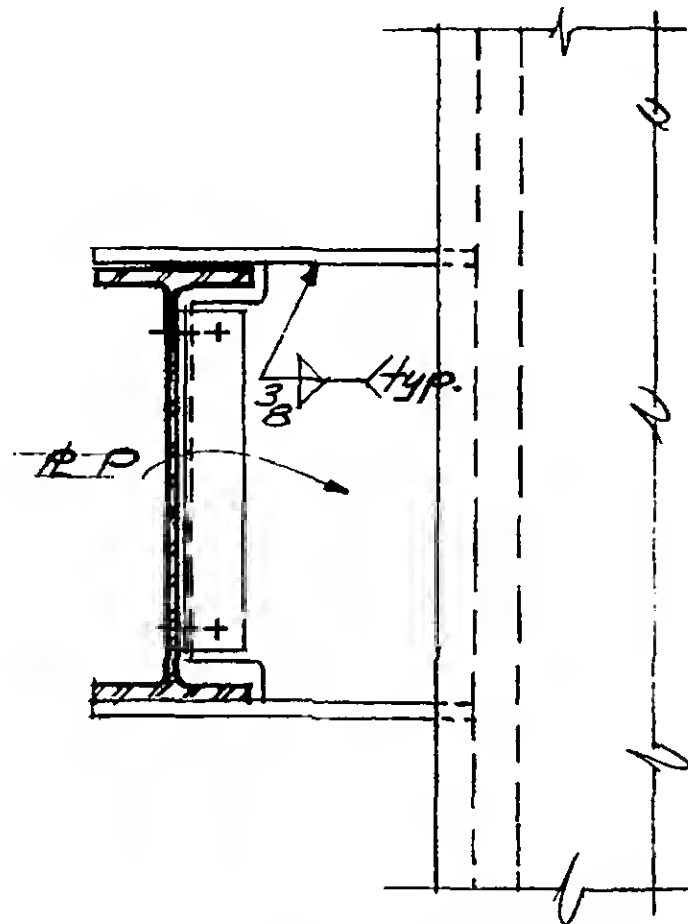
Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER

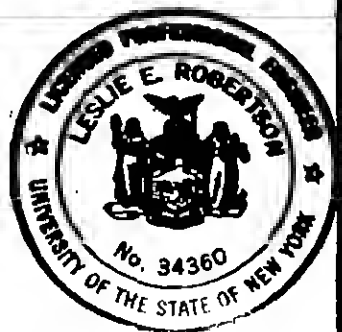
TITLE CONNECTION DETAIL 272 C, D, G

DATE 9-18-68

REVISIONS



Section a-a



DESIGNED

DRAWN

REVIEWED

6-ABI-77.4

PROJECT

THE WORLD TRADE CENTER

TITLE

CONNECTION DETAIL 213 A & B

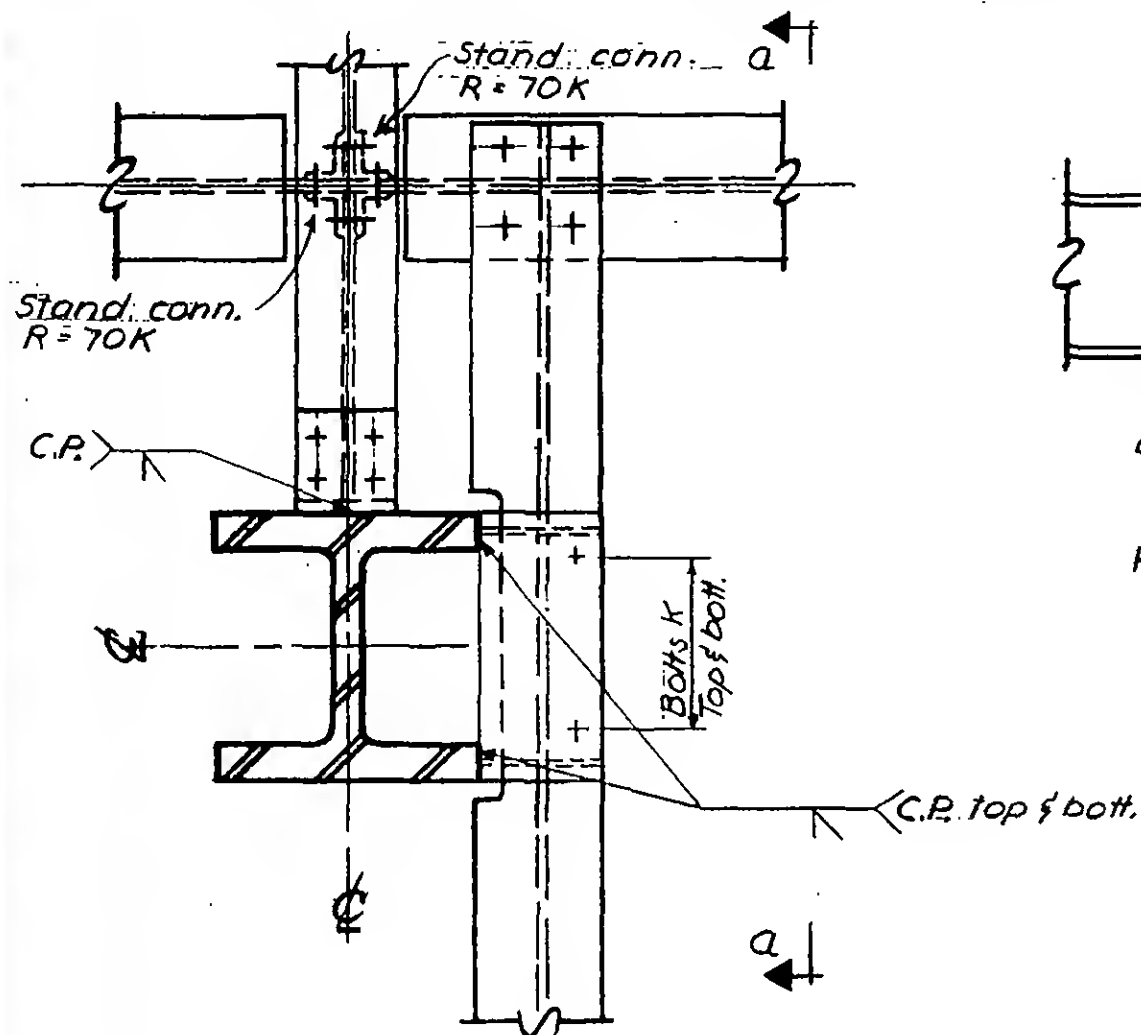
DATE

6-5-67

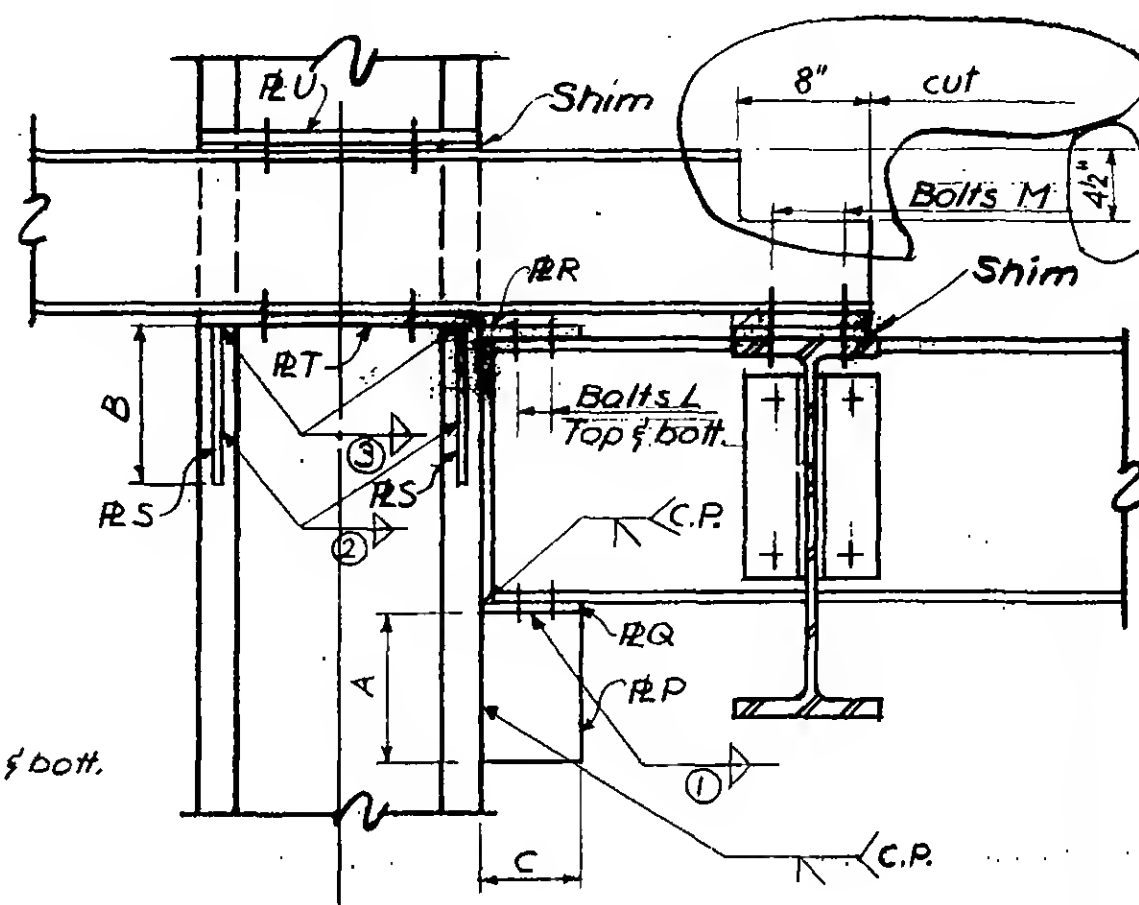
REVISIONS

10-2-67

2-21-68



Plan



Section a-a



6-AB1-78

PROJECT

THE WORLD TRADE CENTER

TITLE

CONNECTION DETAIL 200-A

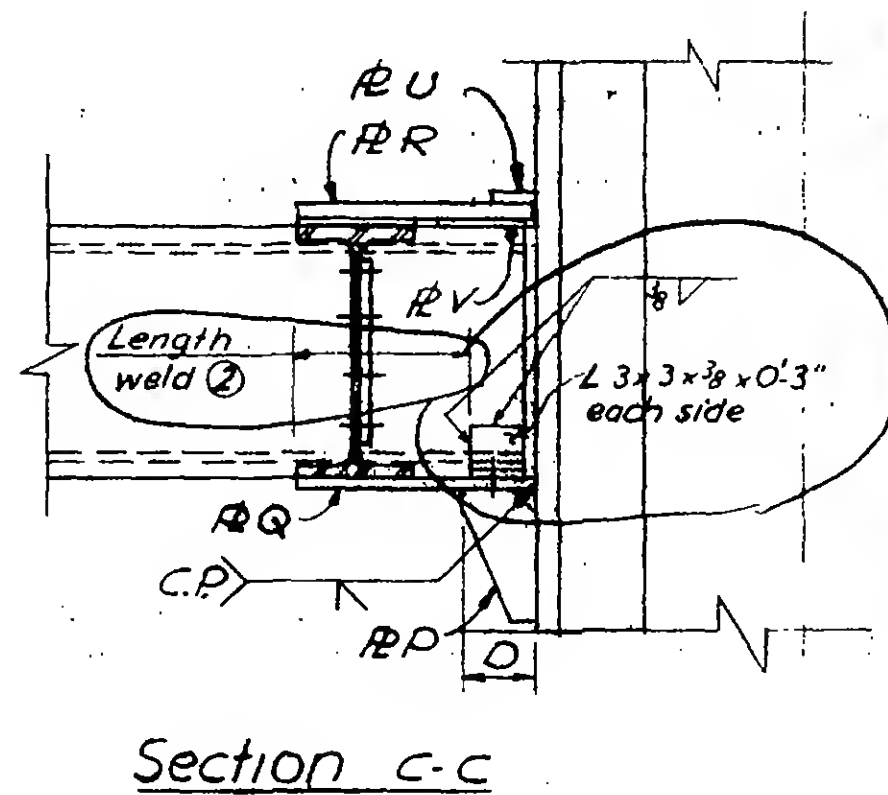
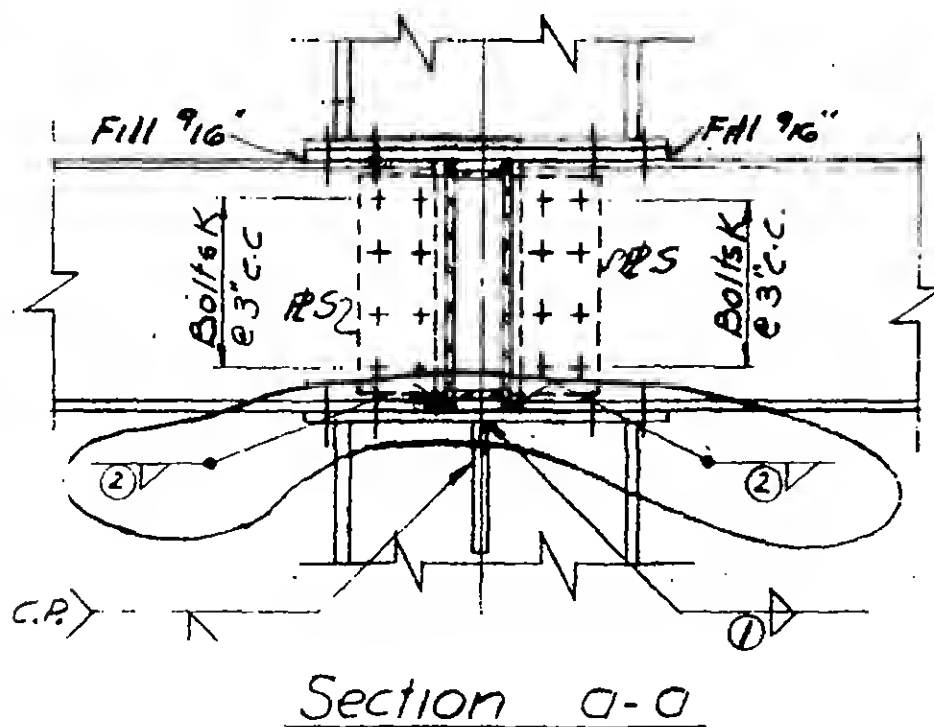
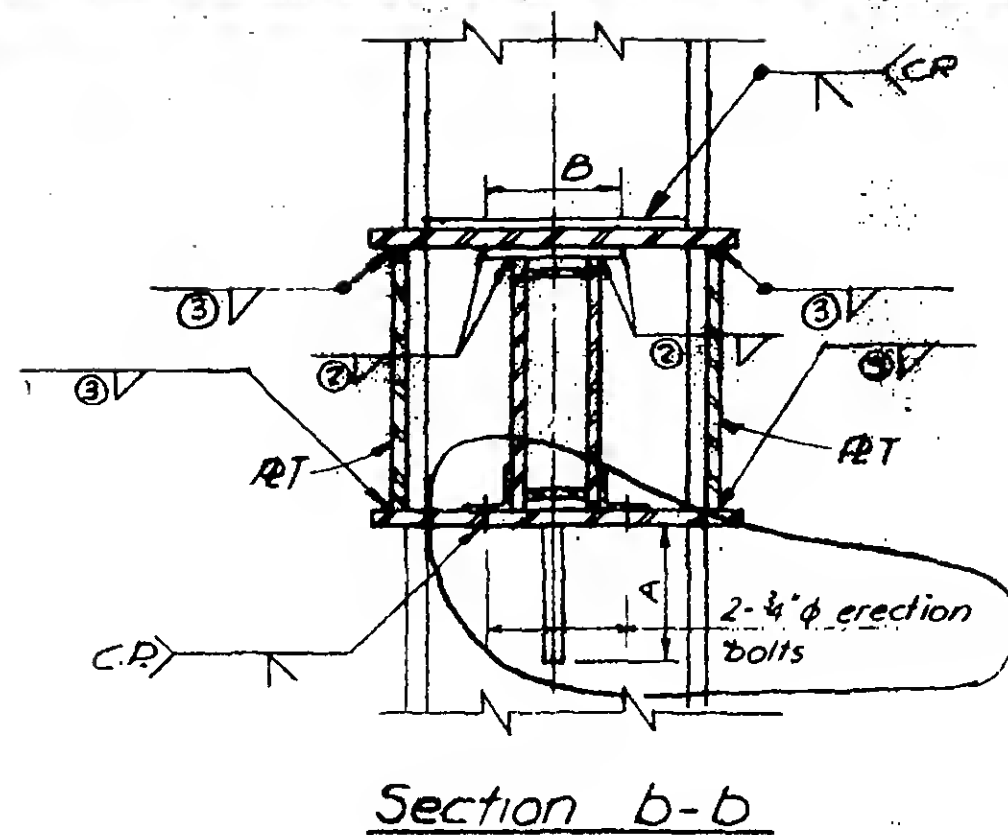
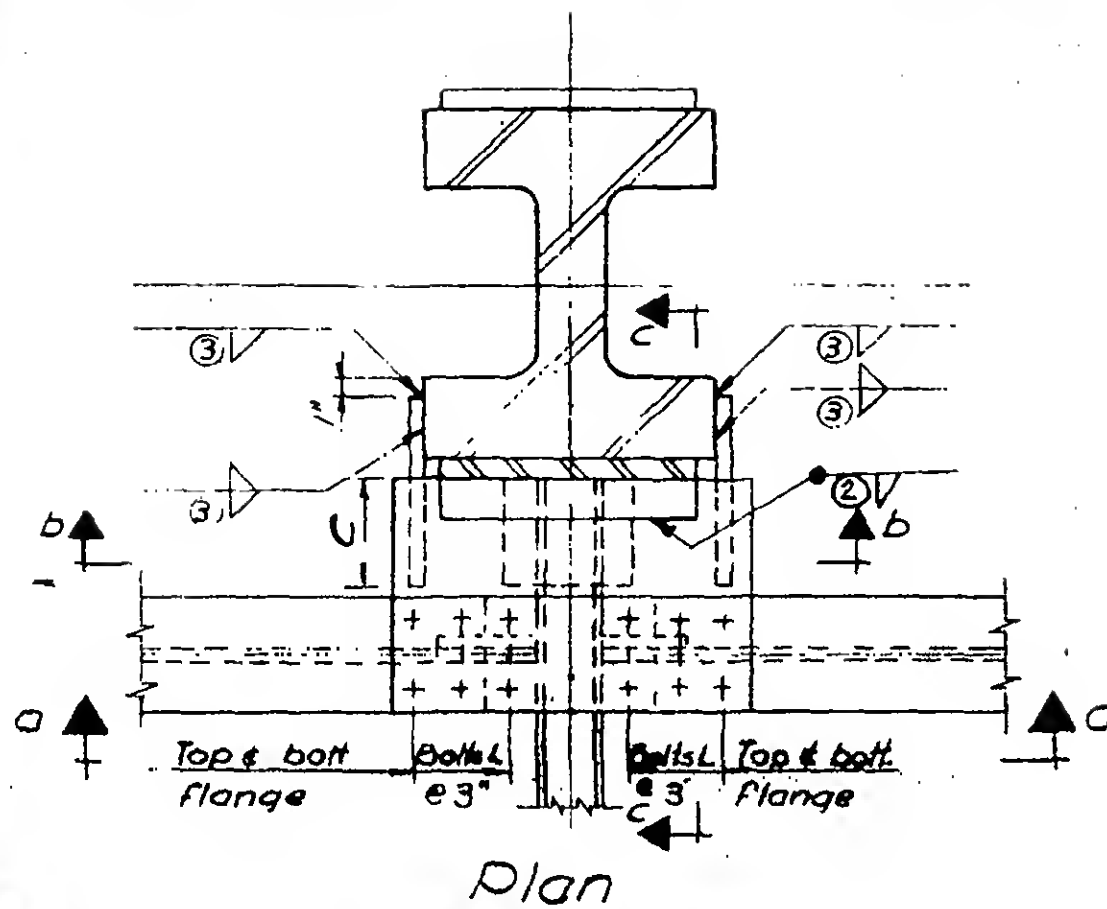
DATE 5-1-67

REVISIONS

7-28-67

9-15-67

11-14-67

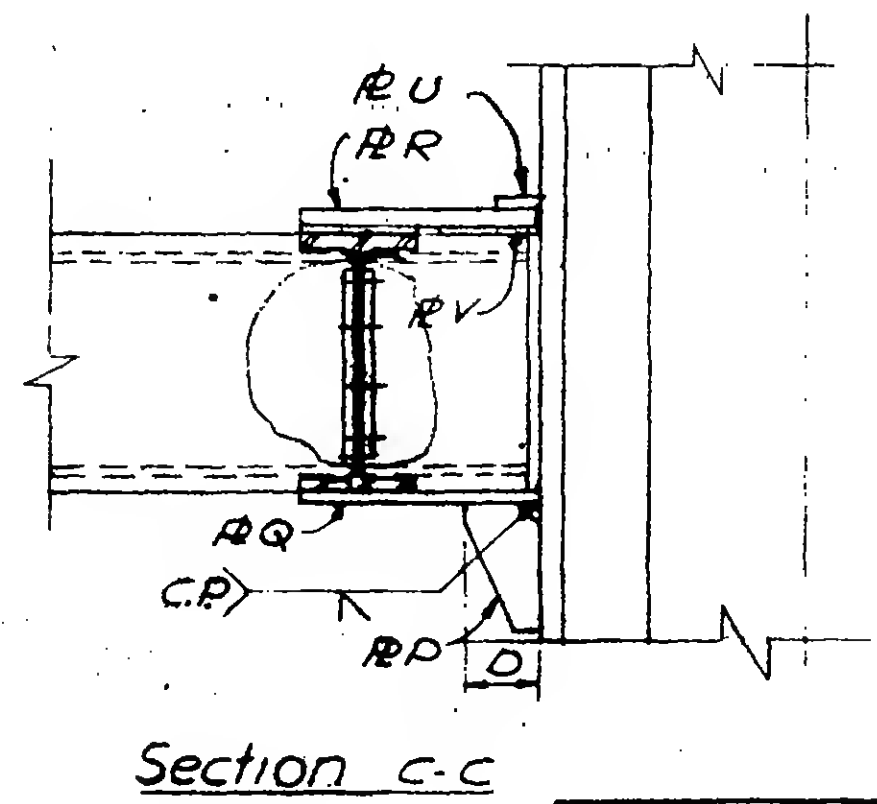
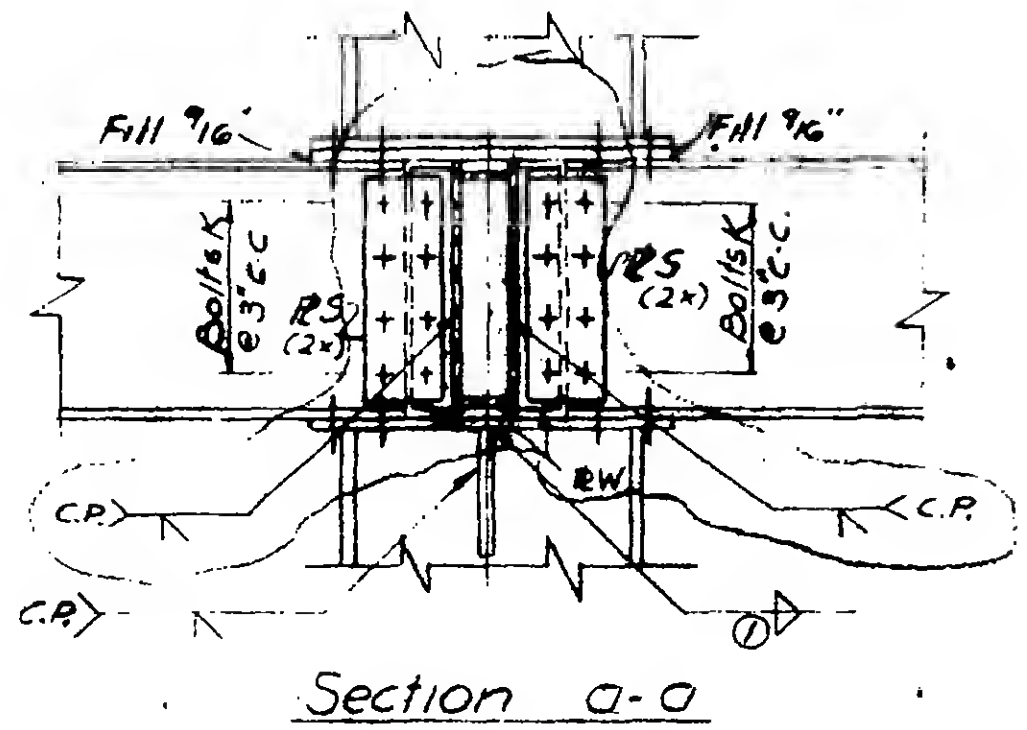
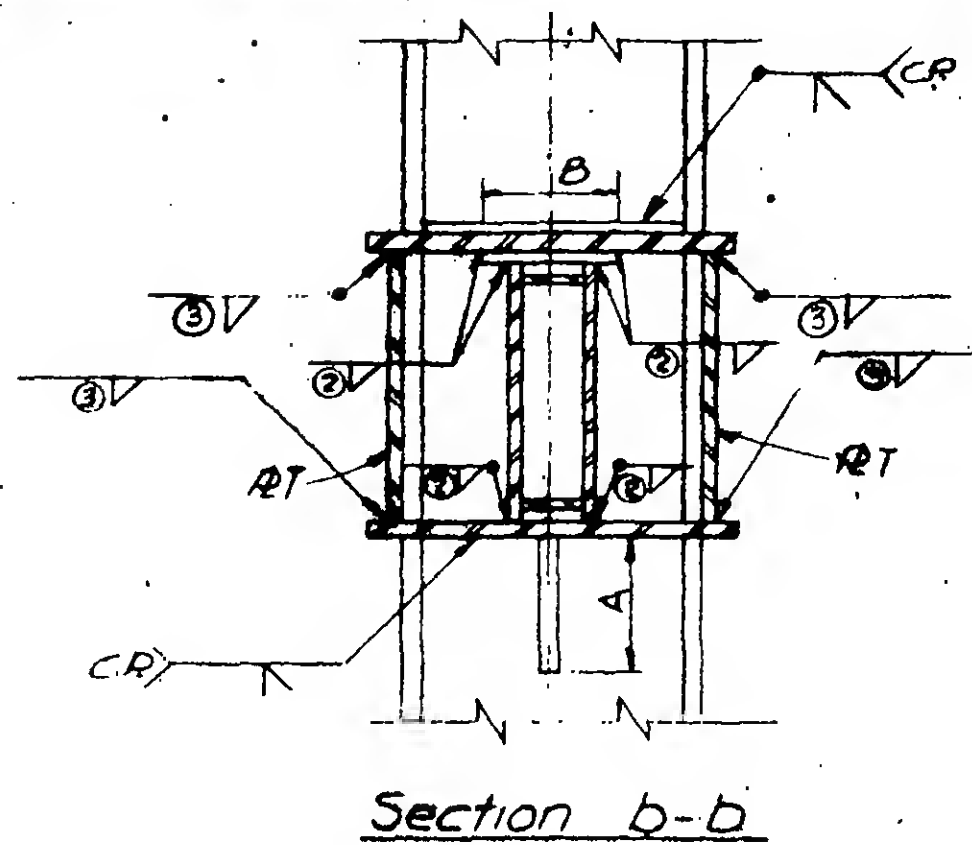
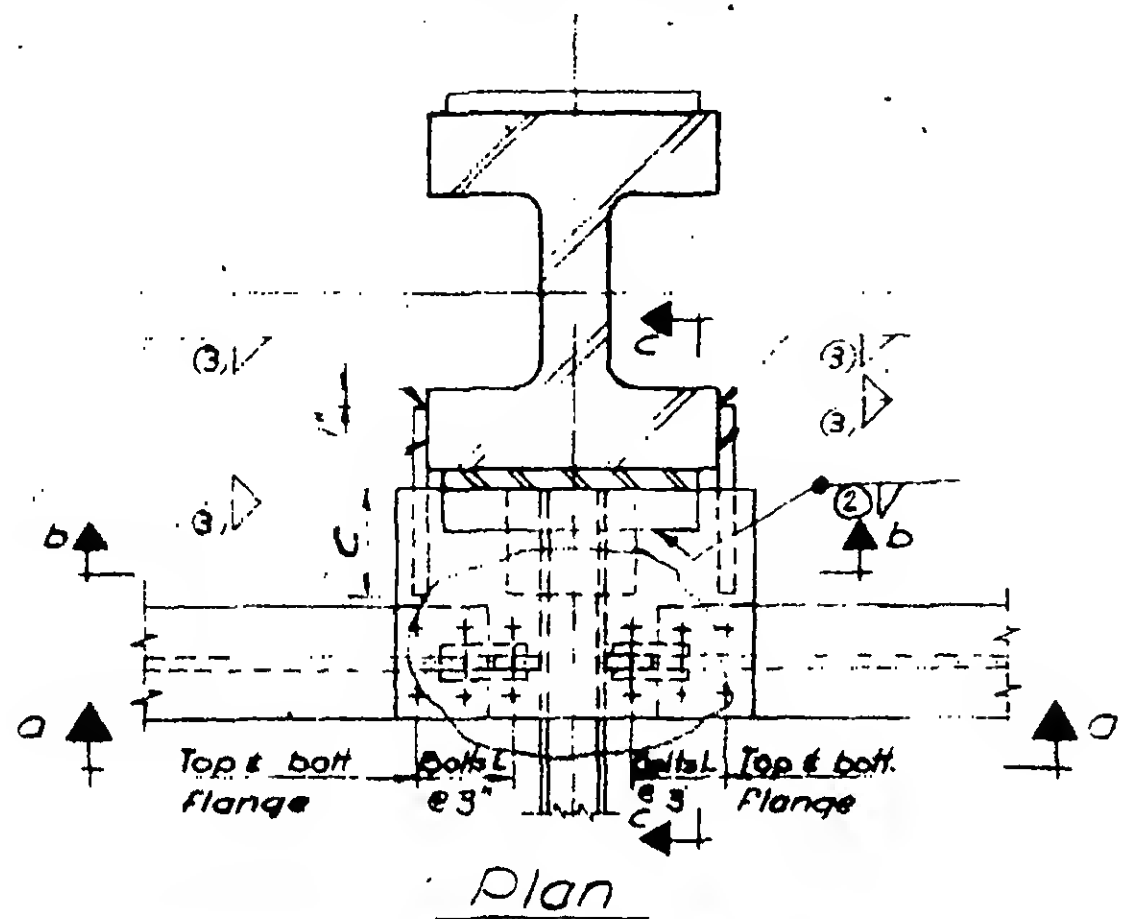


PROJECT THE WORLD TRADE CENTER

TITLE CONNECTION DETAIL 274 A (ALT.)

DATE 5-9-67

REVISIONS
7-28-67
9-15-67
10-11-67



PROJECT THE WORLD TRADE CENTER

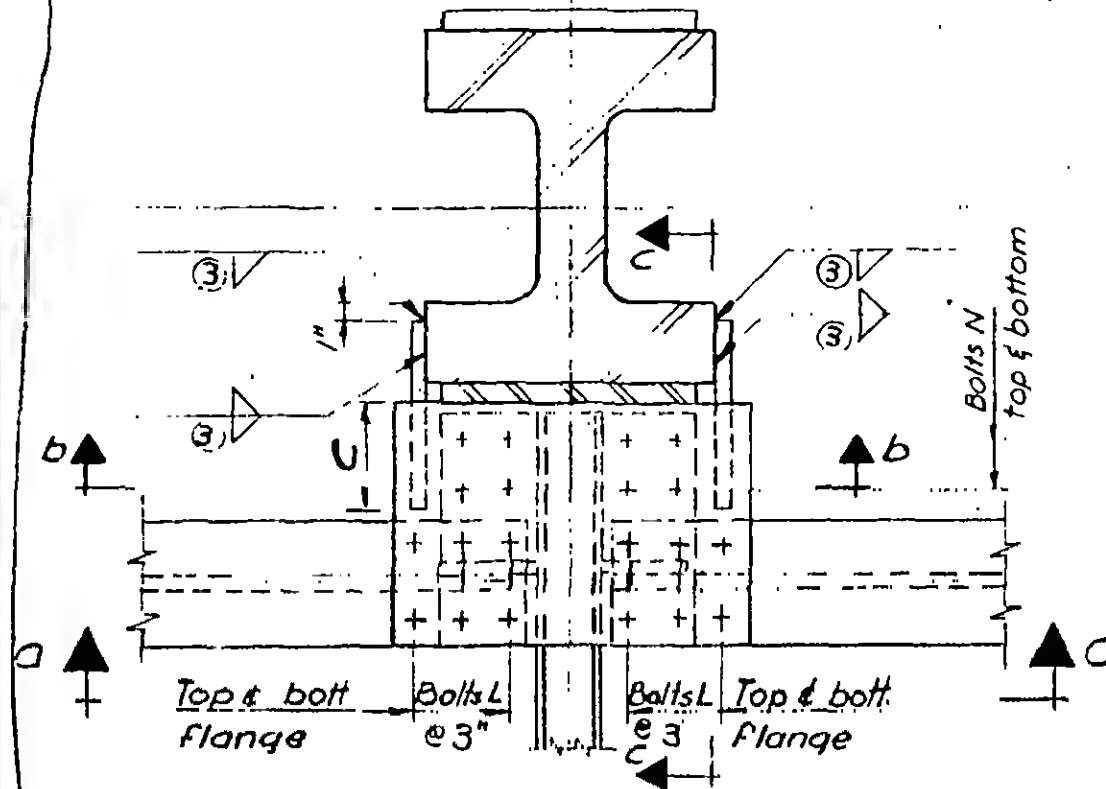
TITLE CONNECTION DETAIL 274 A

DATE 5-9-67

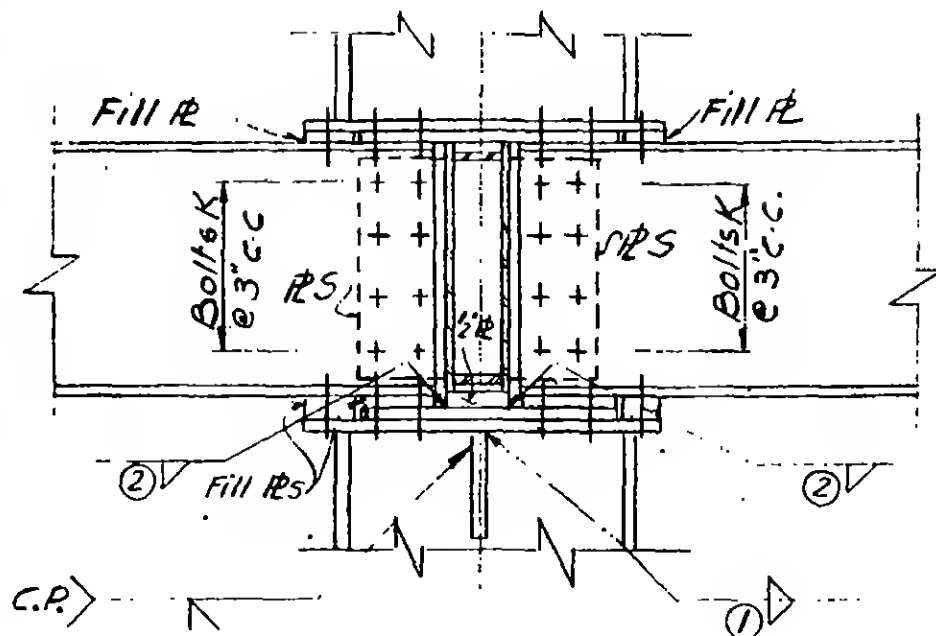
REVISIONS

7-28-67
9-15-67
11-14-67
12-7-67

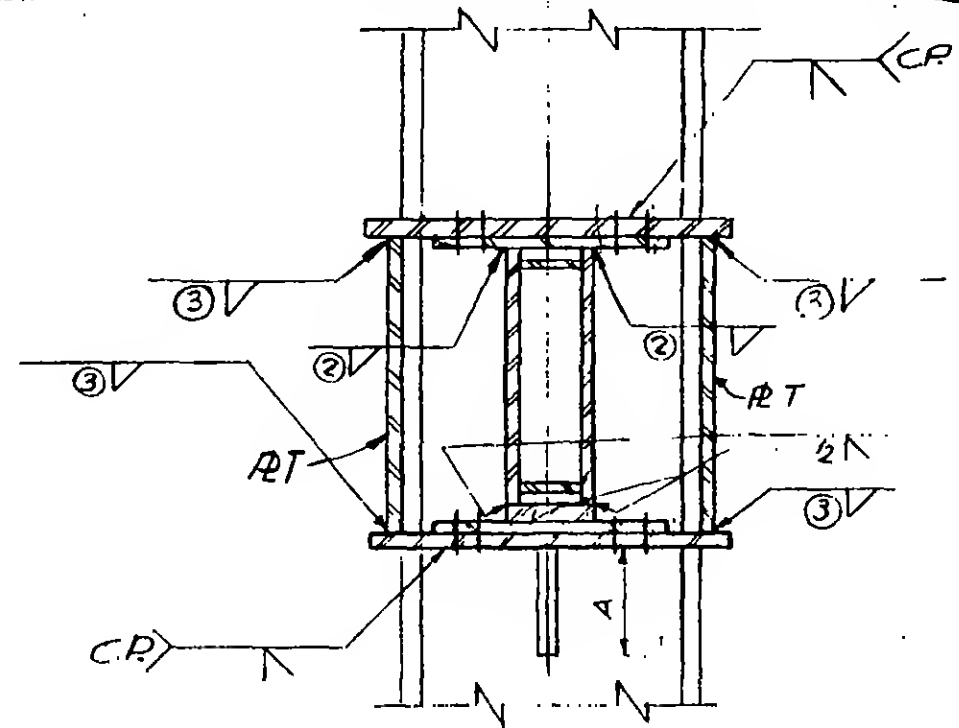
Note: Use Alt. for all locations which do not have shop drawing approved for fabrication.



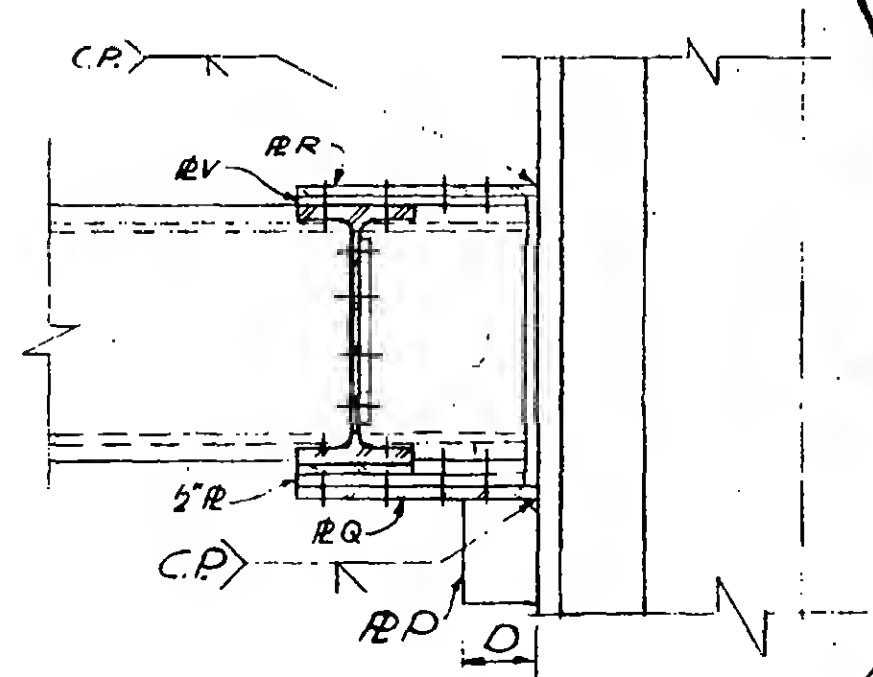
Plan



Section a-a



Section b-b



Section c-c

G-ABI-81 Alt.



THE WORLD TRADE CENTER

CONNECTION DETAIL 274 A (ALT. 3)

DATE 1-2-67

REVISIONS

7-28-67

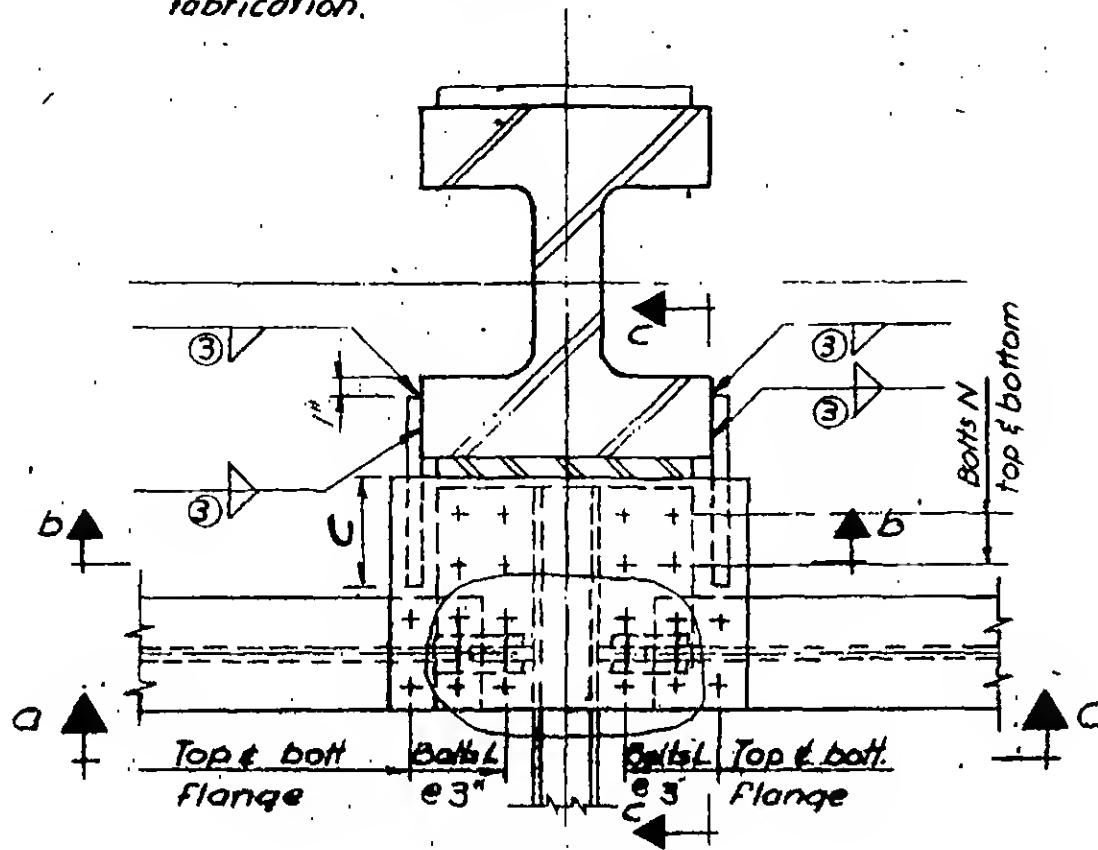
9-15-67

11-14-67

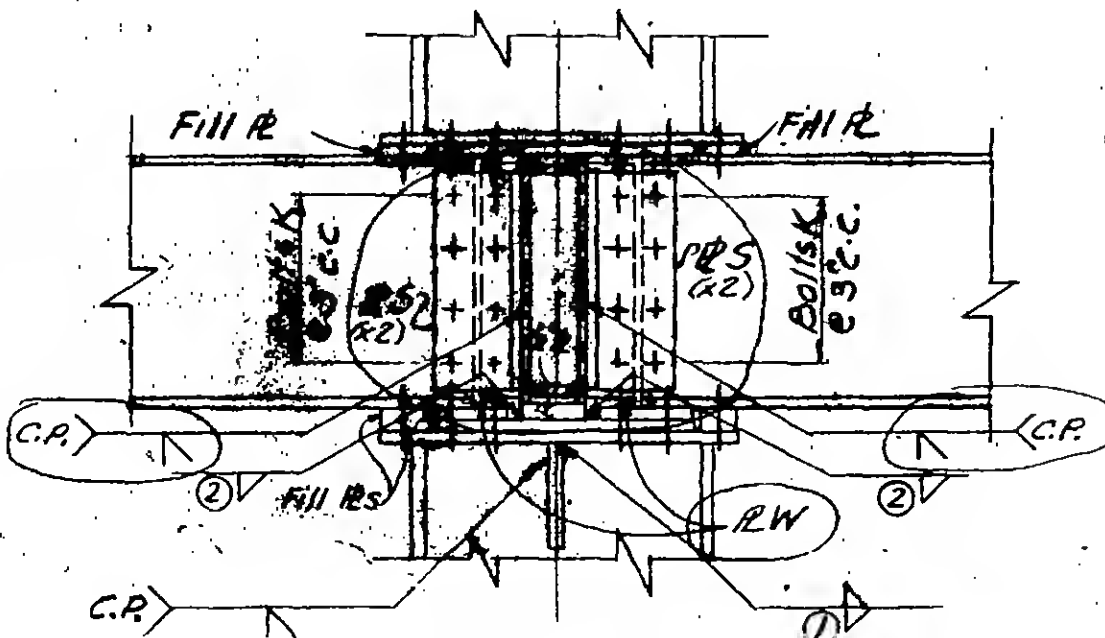
12-7-67

2-26-68

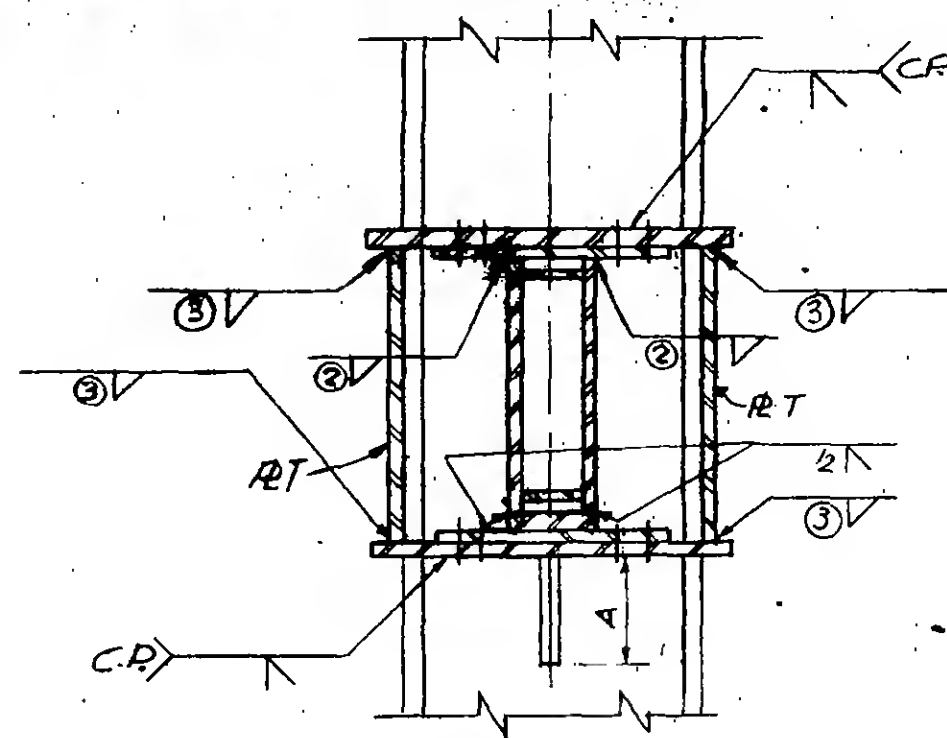
Note: Use Alt. for all locations which do not have shop drawing approved for fabrication.



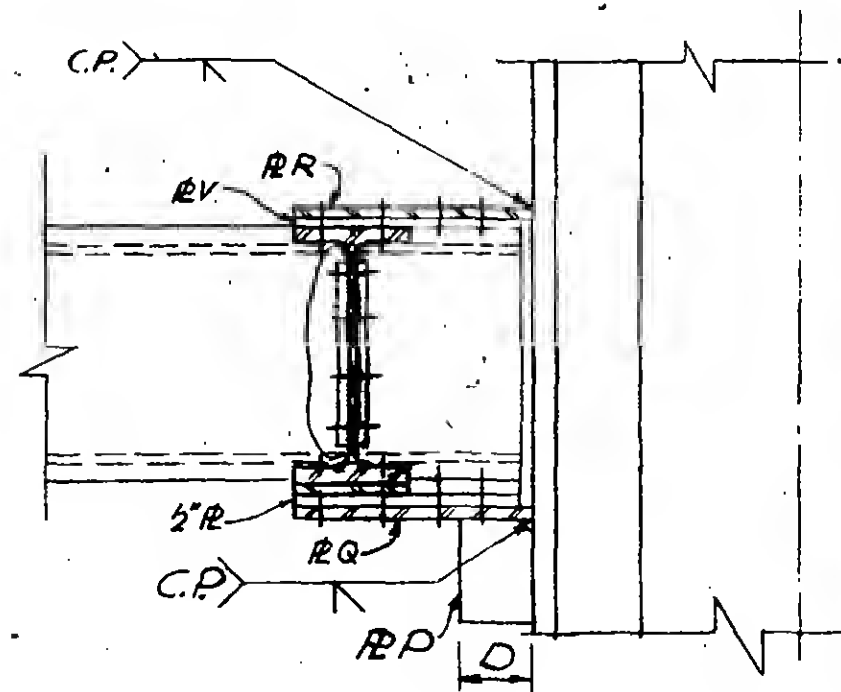
Plan



Section a-a



Section b-b



Section c-c



G-AB1-814H.5

PROJECT THE WORLD TRADE CENTER

TITLE SCHEDULE FOR DETAIL 274 A, B, C, D

DATE 7-28-67

REVISIONS

9-15-67

10-5-67

12-7-67

REF. DWG. 6-ABI-81 6-ABI-81.2 6-ABI-81.2 6-ABI-81.2

274 A

274 B

274 C

274 D

PLATES

P	5/8"	3/4"	5/8"	5/8"
Q	5/8"	5/8"	1/2"	1/2"
R	5/8"	5/8"	1/2"	1/2"
S	9/16"	1/2"	1/2"	1/2"
T	1 1/16"	—	—	—
U	2" x 5/8"	—	—	—
V	1/2"	1/2"	7/16"	7/16"

DIMENSIONS

A	1'-0"	1'-3"	1'-0"	1'-2"
B	0'-8"	—	—	—
C	0'-7 1/2"	—	—	—
D	0'-6"	0'-7"	—	—

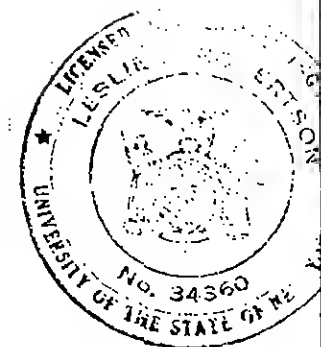
BOLTS

K	8-3/4"φ	8-3/4"φ	8-3/4"φ	8-3/4"φ
L	6-1 1/8"φ	6-7/8"φ	6-7/8"φ	6-7/8"φ
M	—	4-3/4"φ	6-3/4"φ	6-3/4"φ
N	8-7/8"φ	—	—	—

WELDS

①	5/16	5/16	5/16	5/16
②	1/2	5/16	5/16	5/16
③	5/8	—	—	—

6-ABI-81.1



PROJECT

THE WORLD TRADE CENTER

TITLE

SCHEDULE FOR DETAIL 274A,B (ALT.)

DATE _____

7-28-67

REVISIONS

9-15-67

10-11-67

REF. DWG.	G-ABI-EI	G-ABI-EI.2	G-ABI-BI, AH			
	274 A	274 B	* A1t. 274 A			* Use at following column TOWER A
PLATES						Floor Column
P	58"	34"	58"			10, 11 702
Q	58"	58"	58"			10, 11 707
R	58"	58"	58"			12-16 702
S	38"	12"	38"			12-16 707
T	1 1/16"		1 1/16"			17 702
U	2 x 58"		2 x 58"			17 707
V	12"	12"	12"			18 702
W	—	—	Same as web thickness of beam			19 702
DIMENSIONS						20 702
A	0	1'-3"	1'-0"			21-23 702
B	0'-8"	—	0'-8"			24 702
C	0'-7 1/2"	—	0'-7 1/2"			25 702
D	0'-6"	0'-7"	0'-6"			26 702
						27 702
						28-31 702
BOLTS						32 702
K	8 - 3/4" φ	8 - 3/4" φ	4 - 3/4" φ			33 702
L	6 - 1 1/8" φ	6 - 7/8" φ	6 - 1 1/8" φ			
M	—	4 - 3/4" φ	—			
WELDS						
1	5/16	5/16	5/16			
2	1/2	5/16	1/2			
3	5/8	—	5/8			

G-ABI-81.1 ALT.

PROJECT

THE WORLD TRADE CENTER

TITLE

SCHEDULE FOR DETAIL 274 A, B, C, D, (ALT. 5)

DATE

7-28-67

REVISIONS

9-15-67

10-5-67

12-7-67

2-26-68

REF. DWG. G-ABI-81 G-ABI-81.2 G-ABI-81.2 G-ABI-81.2 G-ABI-81(ALT.5)

274 A

274 B

274 C

274 D

274A(ALT.5)

PLATES

P

5/8"

3/4"

5/8"

5/8"

5/8"

Q

5/8"

5/8"

1/2"

1/2"

5/8"

R

5/8"

5/8"

1/2"

1/2"

5/8"

S

9/16"

1/2"

1/2"

1/2"

9/16"

T

11/16"

—

—

—

11/16"

U

2" x 5/8"

—

—

—

2" x 5/8"

V

1/2"

1/2"

7/16"

7/16"

1/2"

W

—

—

—

—

Same as web
thickness of beam

DIMENSIONS

A

1'-0"

1'-3"

1'-0"

1'-2"

1'-0"

B

0'-8"

—

—

—

0'-8"

C

0'-7 1/2"

—

—

—

0'-7 1/2"

D

0'-6"

0'-7"

—

—

0'-6"

BOLTS

K

8-3/4"φ

8-3/4"φ

8-3/4"φ

8-3/4"φ

8-3/4"φ

L

6-1/8"φ

6-7/8"φ

6-7/8"φ

6-7/8"φ

6-1/8"φ

M

—

4-3/4"φ

6-3/4"φ

6-3/4"φ

—

N

8-7/8"φ

—

—

—

8-7/8"φ

WELDS

①

5/16

5/16

5/16

5/16

5/16

②

1/2

5/16

5/16

5/16

1/2

③

5/8

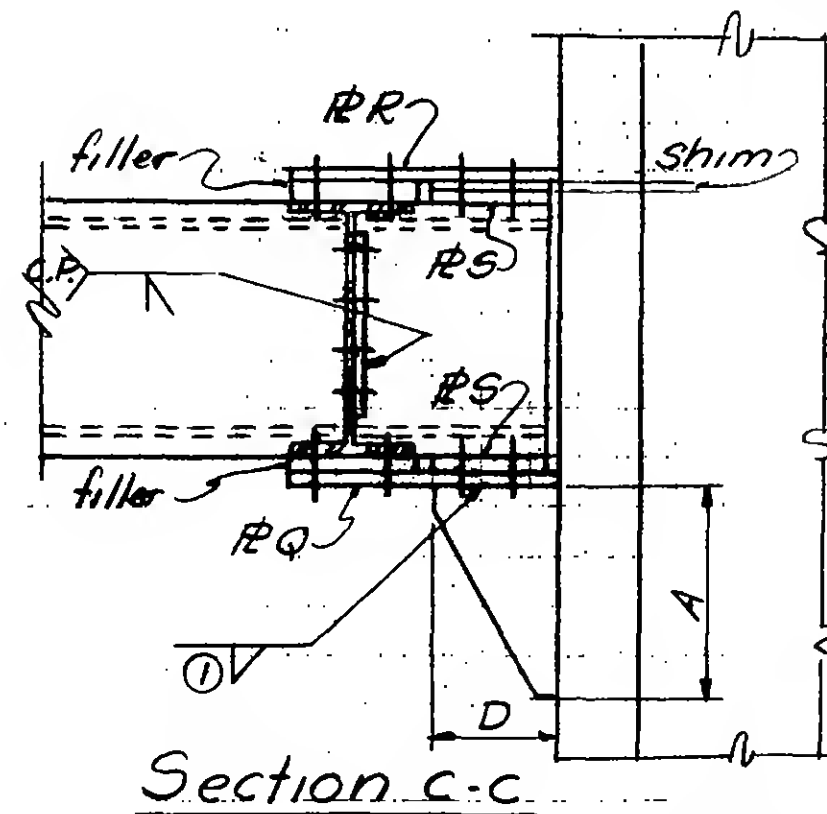
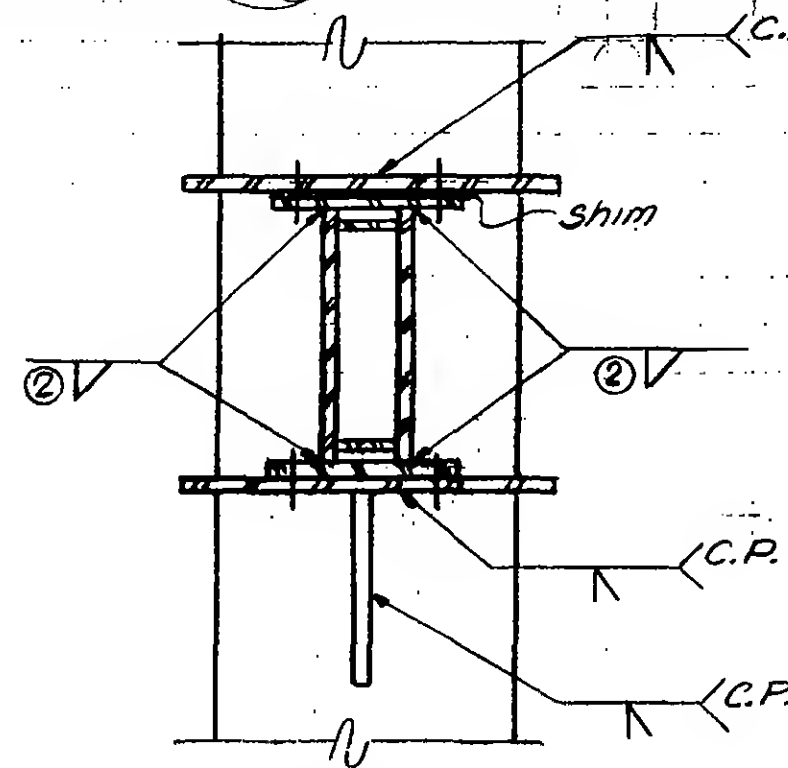
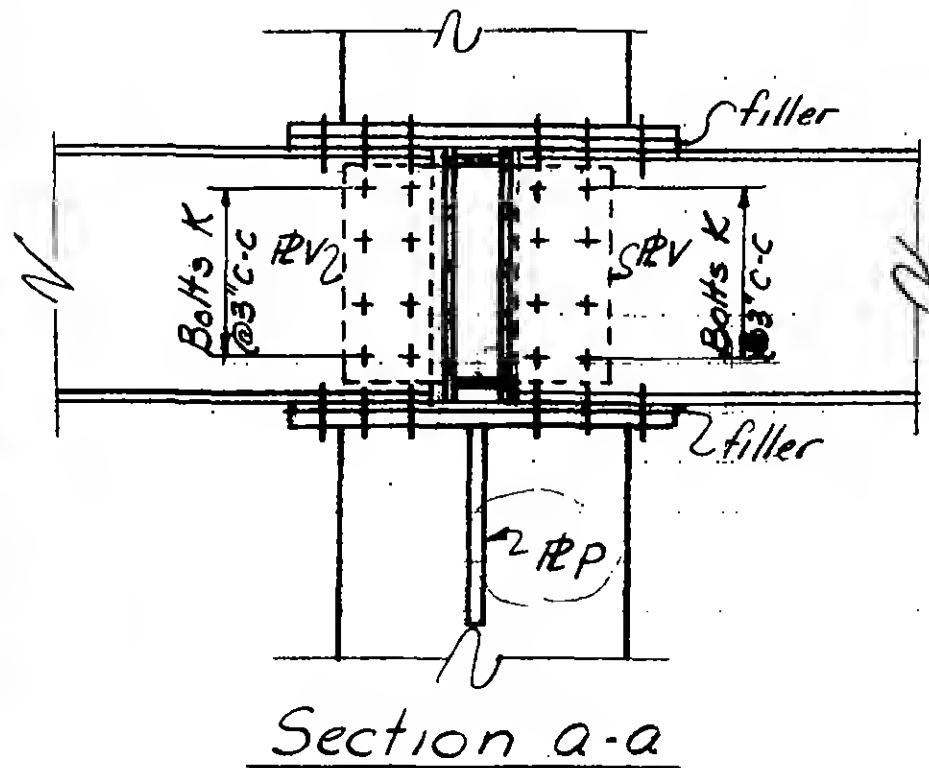
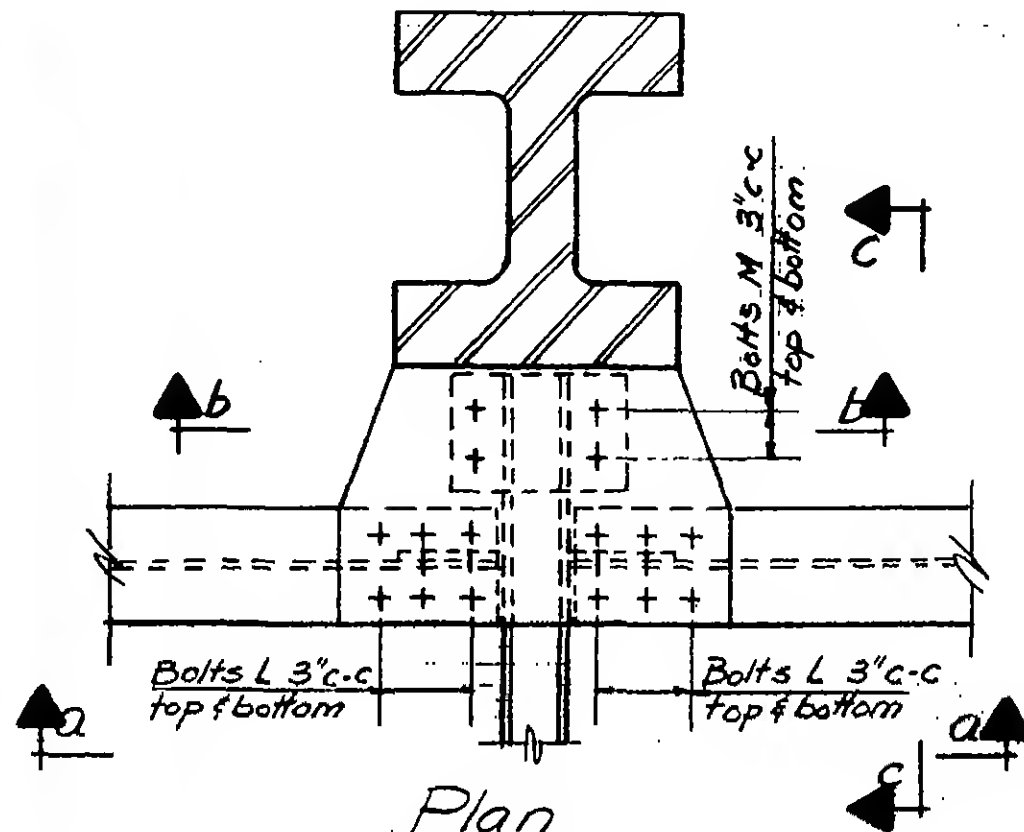
—

—

—

5/8

G-ABI-81. (ALT. 5)



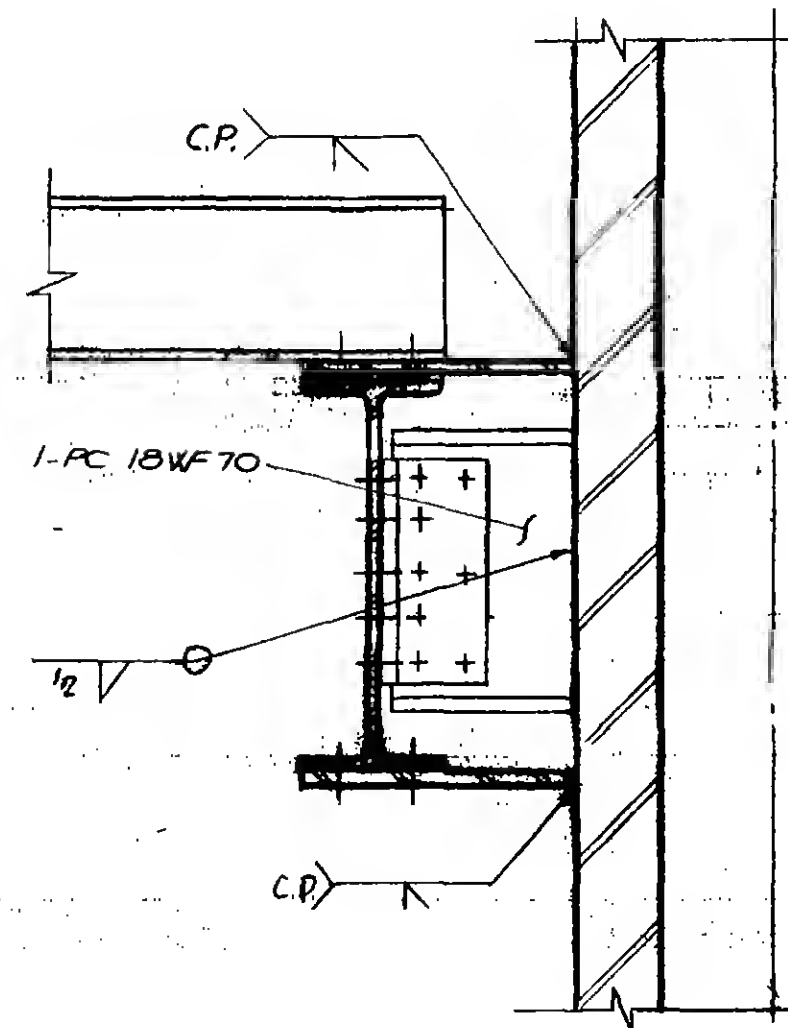
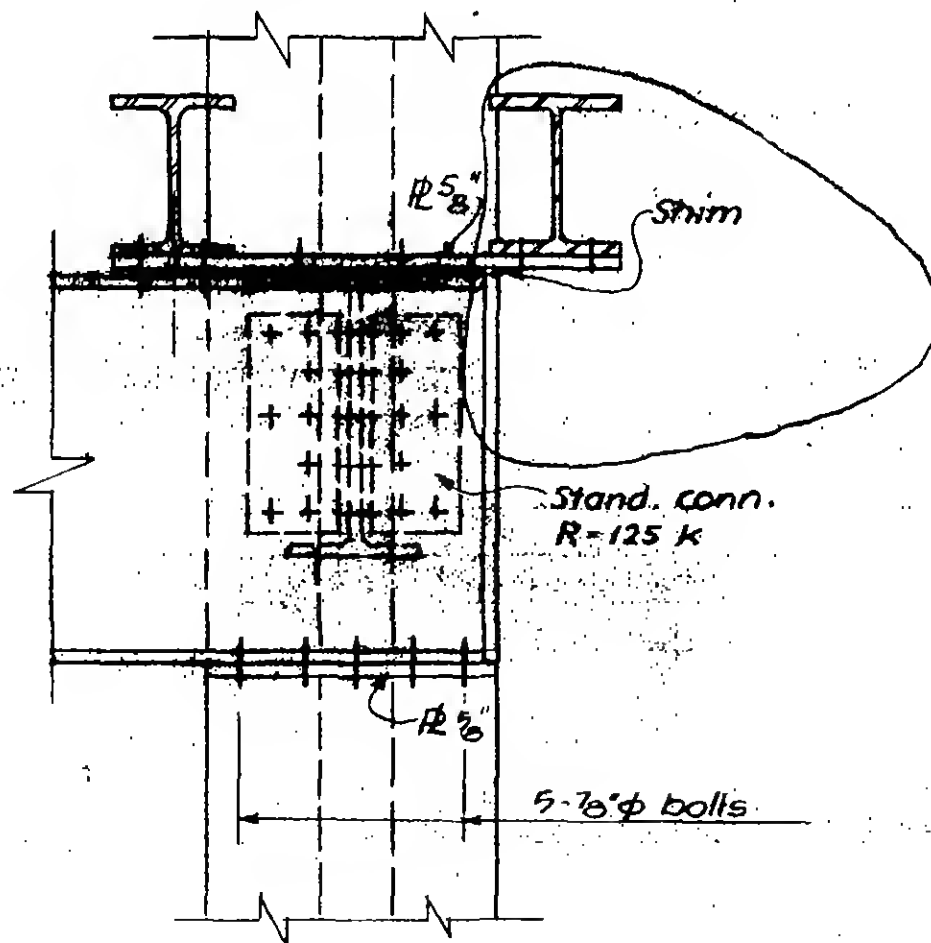
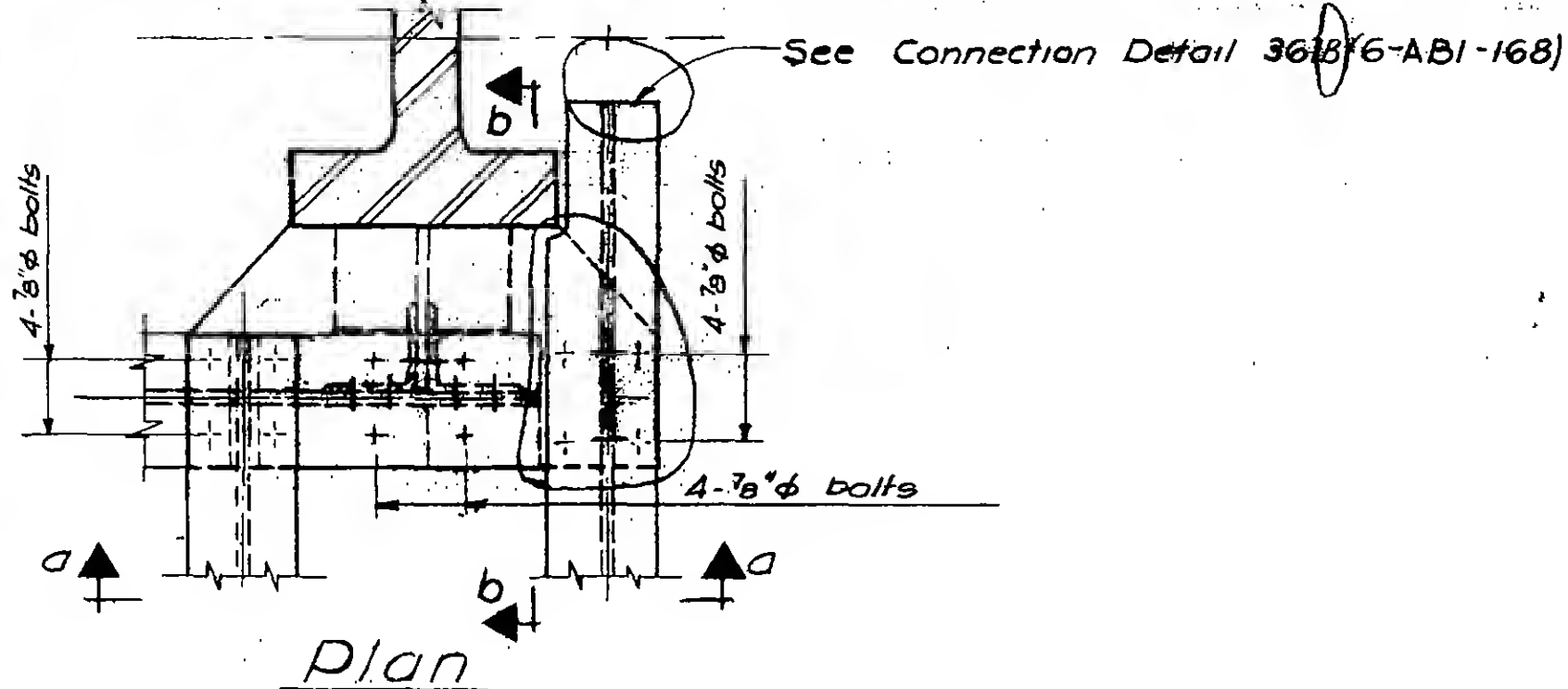
PROJECT THE WORLD TRADE CENTER

TITLE CONNECTION DETAIL 215 A

DATE 5.8.2.68

REVISIONS

10-2-67
1-24-68



6-ABI-82



WORTHINGTON, SKILLING, HELLE & JACKSON

Civil & Structural Engineers

PROJECT

THE WORLD TRADE CENTER

TITLE

CONNECTION DETAIL 276 A,

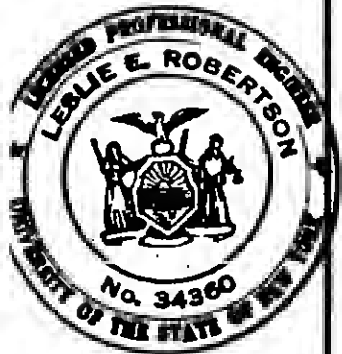
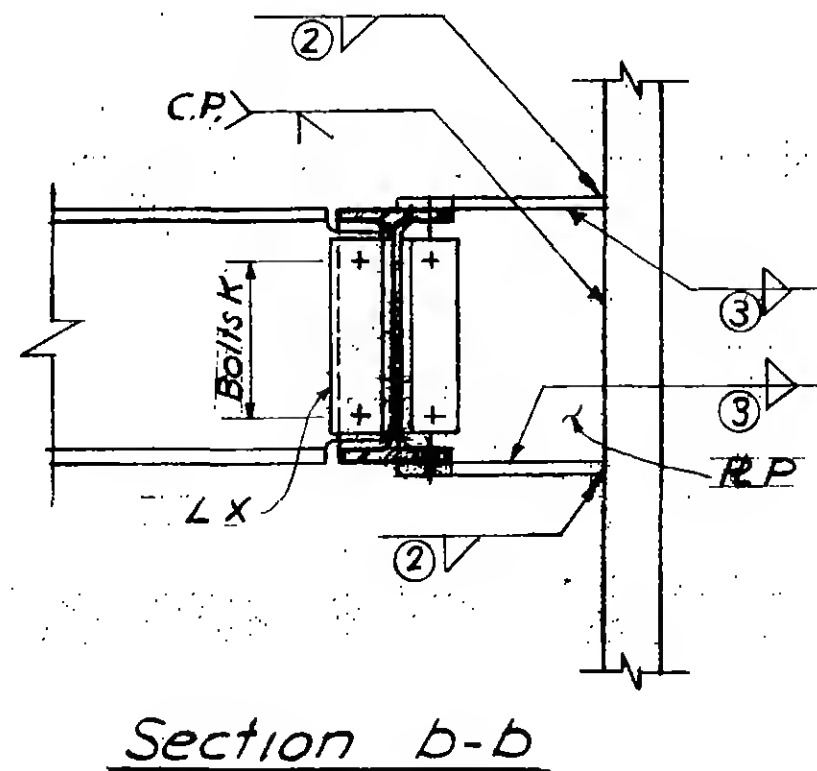
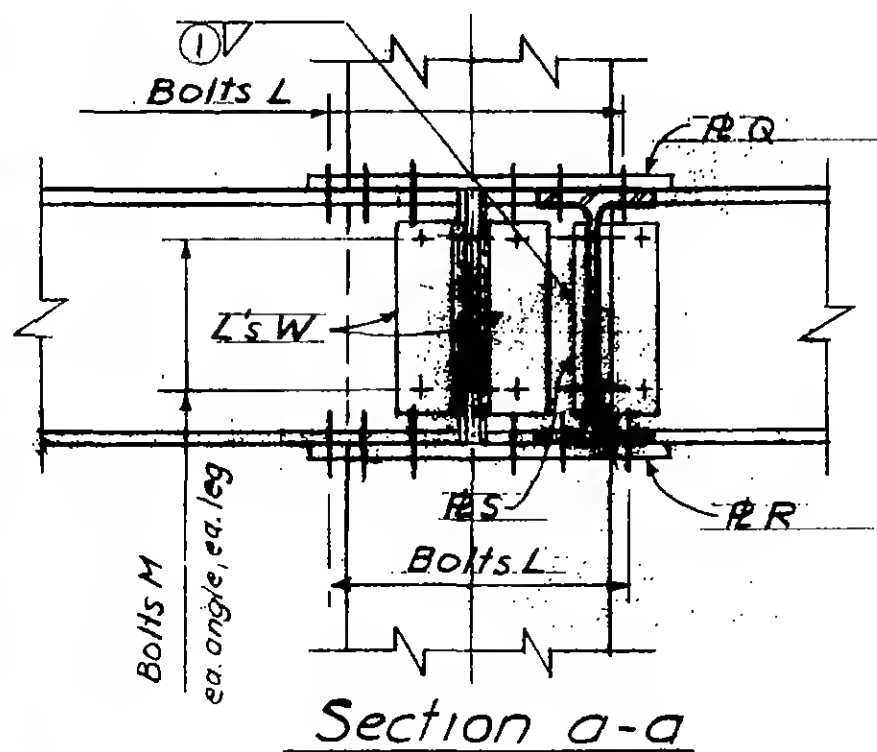
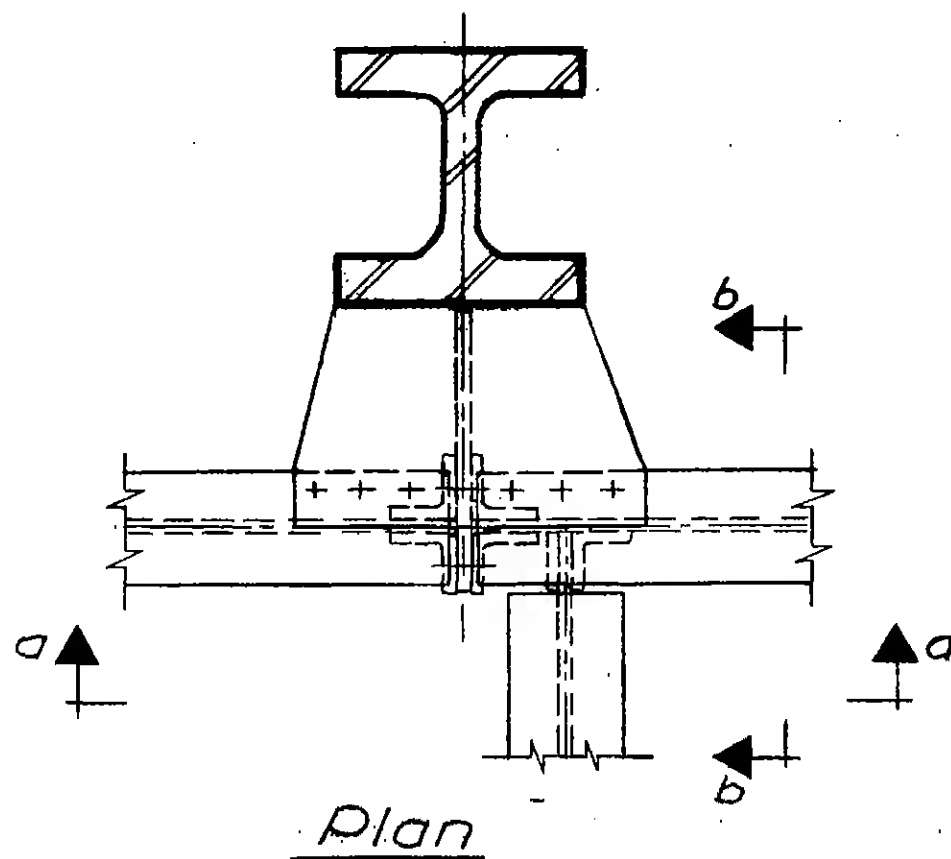
DATE

6-5-67

REVISIONS

9-15-67

11-10-67



G-AB1-83

WORTHINGTON, SKILLING, HELLE & JACKSON

Civil & Structural Engineers

PROJECT

THE WORLD TRADE CENTER

TITLE

CONNECTION DETAIL 276 A (ALT. 1)

DATE

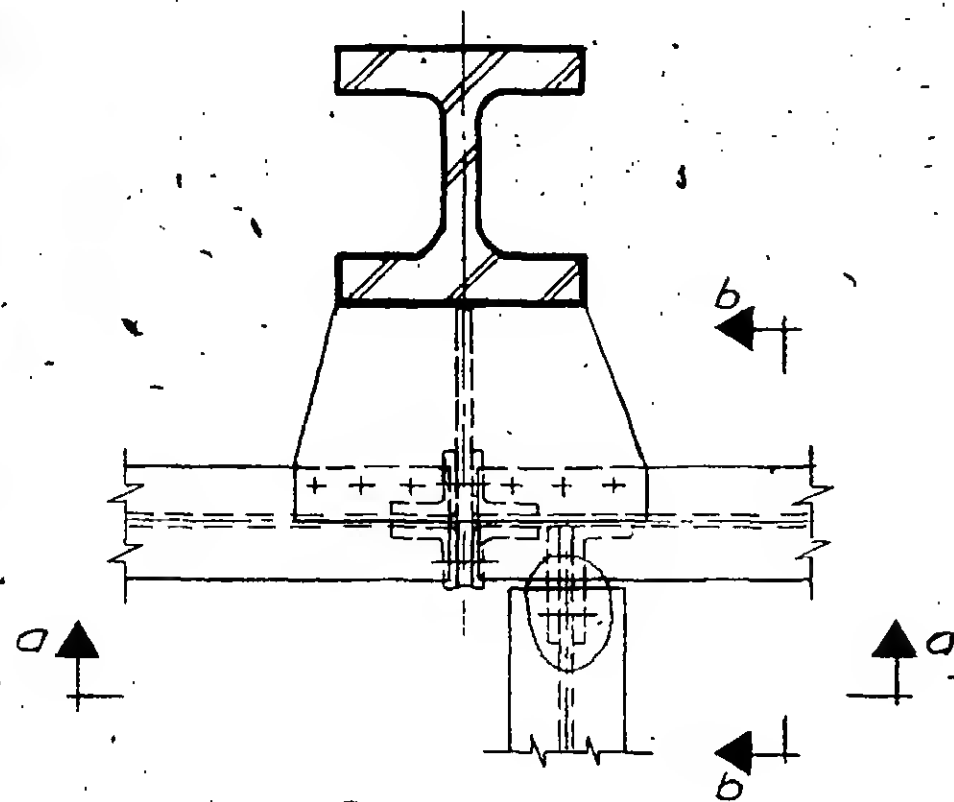
6-5-67

REVISIONS

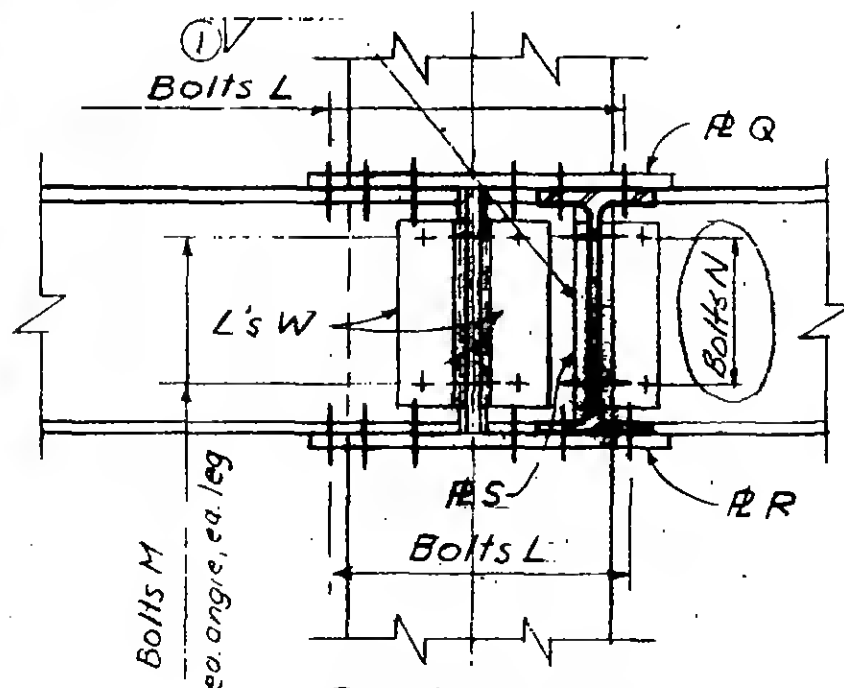
9-15-67

11-10-67

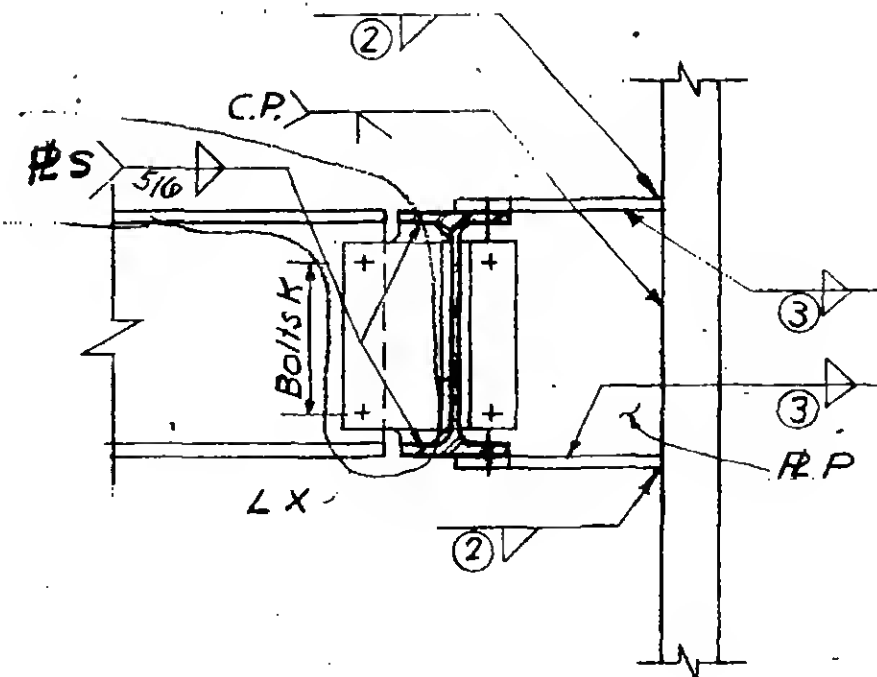
2-26-68



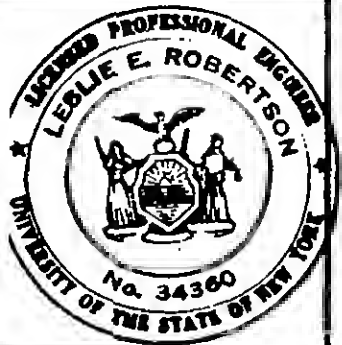
Plan



Section a-a



Section b-b



G-ABI-83(Alt. 1)

Structural & Civil Engineers

TITLE	SCHEDULE FOR DETAIL 276 A
-------	---------------------------

DATE 9-15-67

11-10-67

276 A

PLATES

P	I''
-----	-------

Q	12"
---	-----

R	12"
---	-----

5	30
---	----

ANGLES

W	$4 \times 3\frac{1}{2} \times 3_8$
---	------------------------------------

X	$4 \times 3\frac{1}{2} \times 5_{K6}$
---	---------------------------------------

BOLTS

K	3-34"φ
---	--------

L	6-1"φ
---	-------

M	4-7/8" ϕ
---	---------------

WELDS

①	5/100
---	-------

②	$\frac{1}{2}$
---	---------------

③	7/100
---	-------

6-AB1-83.1



Structural & Civil Engineers

TITLE SCHEDULE FOR DETAIL 276 A/A(ALT.1)

DATE 9-15-67

11-10-67

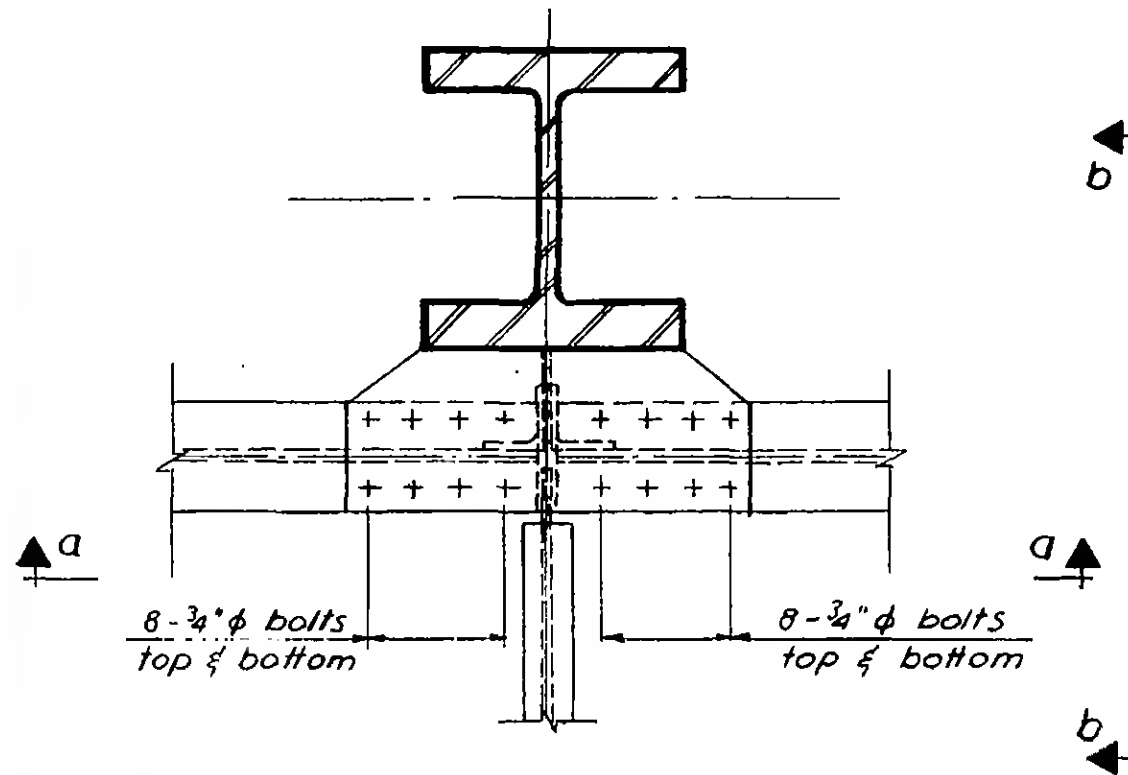
2-26-68

	276 A	276 A (Alt. 1)
PLATES		
P	1"	1"
Q	1/2"	1/2"
R	1/2"	1/2"
S	3/8"	1/2"
ANGLES		
W	4 x 3 1/2 x 3/8	4 x 3 1/2 x 3/8
X	4 x 3 1/2 x 5/16	8 x 4 x 1/2
BOLTS		
K	3 - 3/4" ϕ	4 - 7/8" ϕ
L	6 - 1" ϕ	6 - 1" ϕ
M	4 - 7/8" ϕ	4 - 7/8" ϕ
N	—	4 - 3/4" ϕ
WELDS		
1	5/16	5/16
2	1/2	1/2
3	7/16	7/16

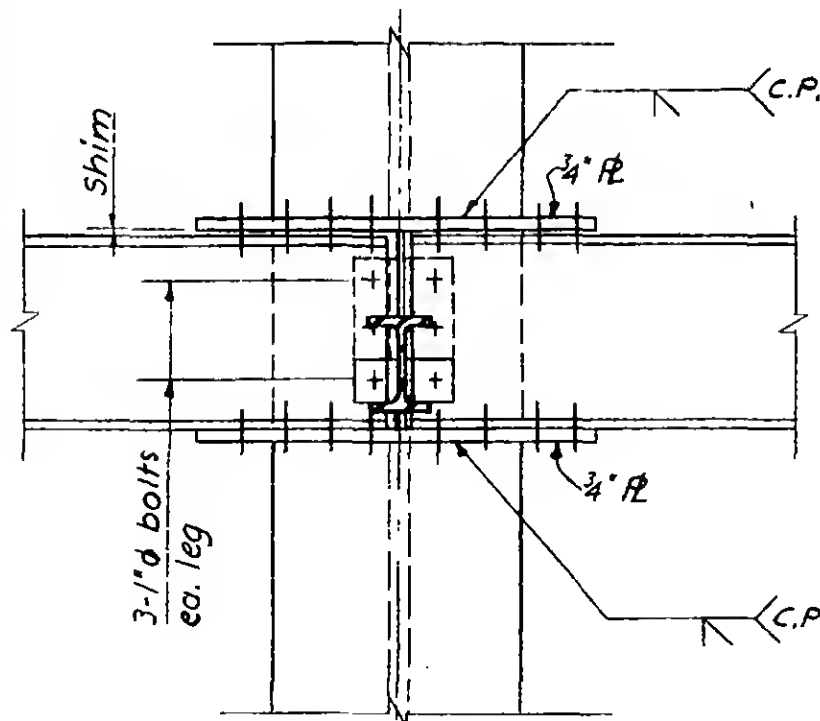
6-AE1-83.1 (A/H.1)



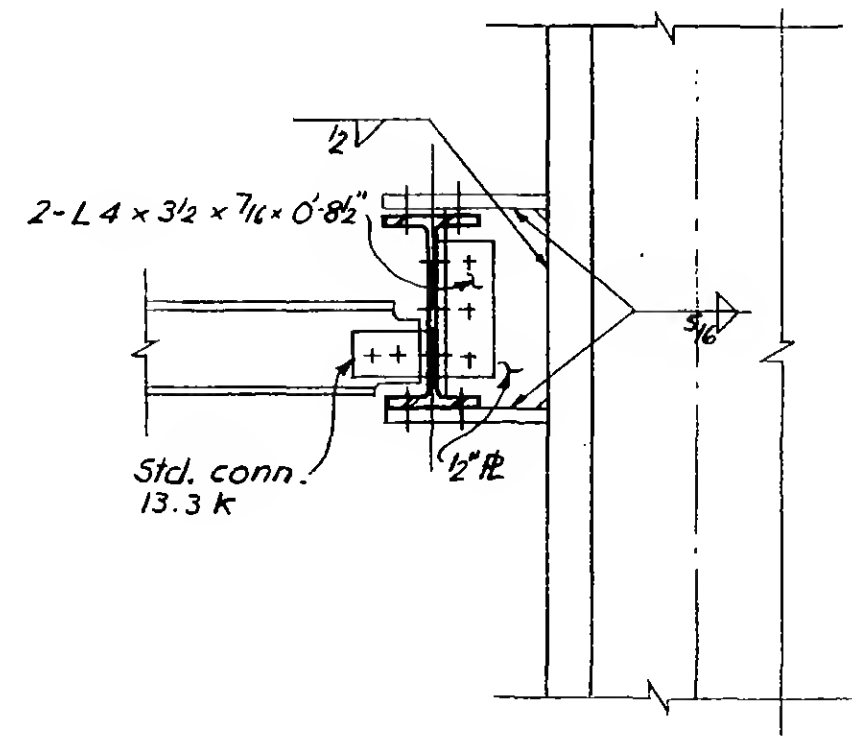
REVISIONS



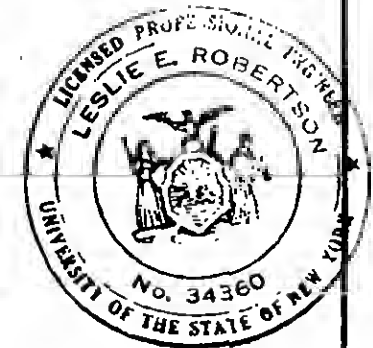
Plan



Section a-a



Section b-b



PROJECT

THE WORLD TRADE CENTER

TITLE

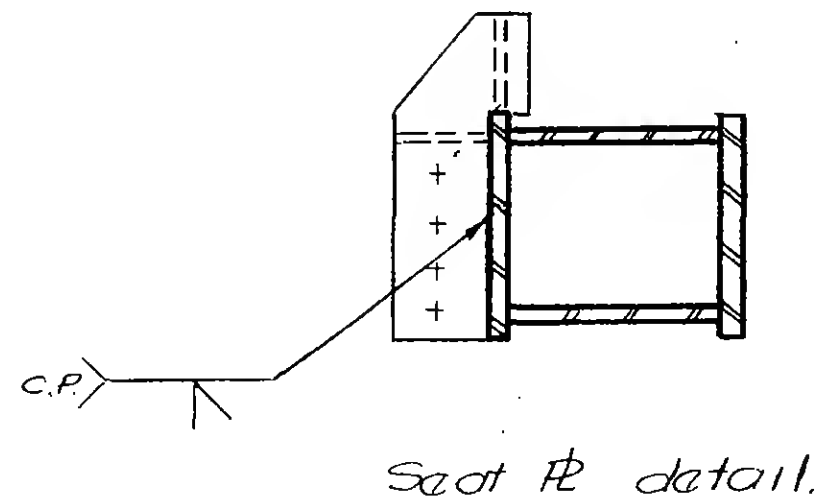
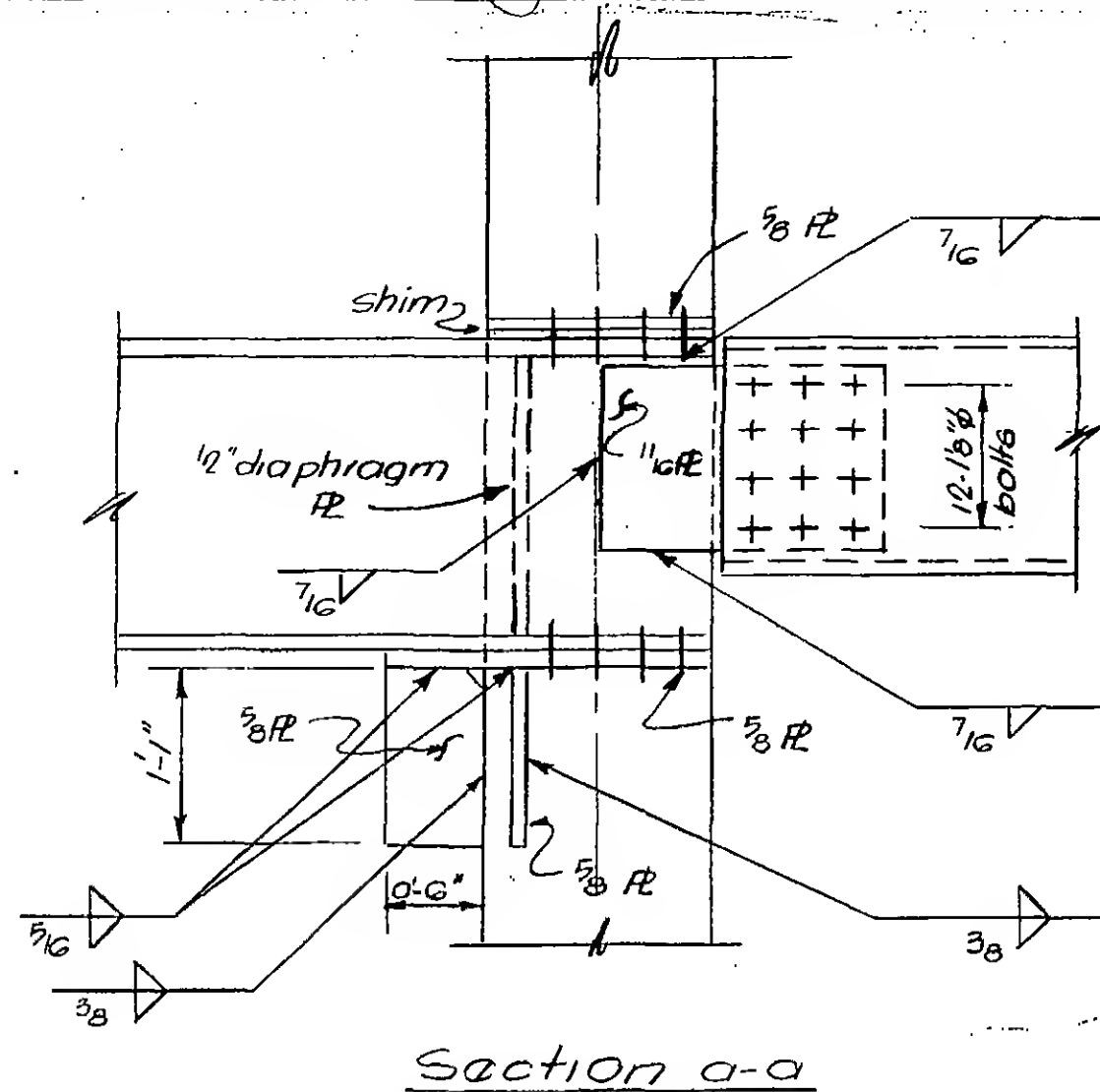
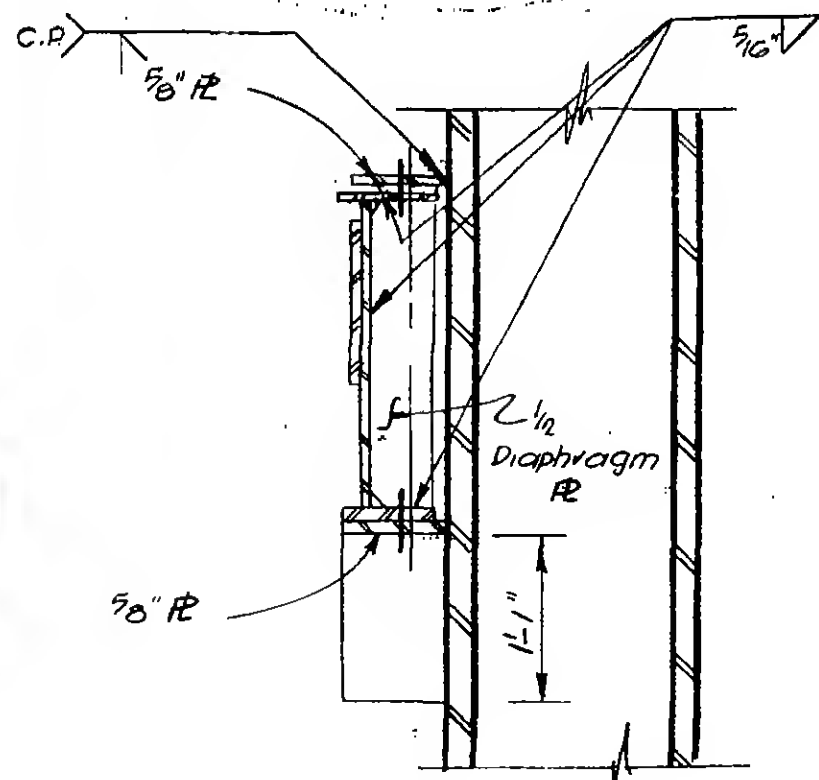
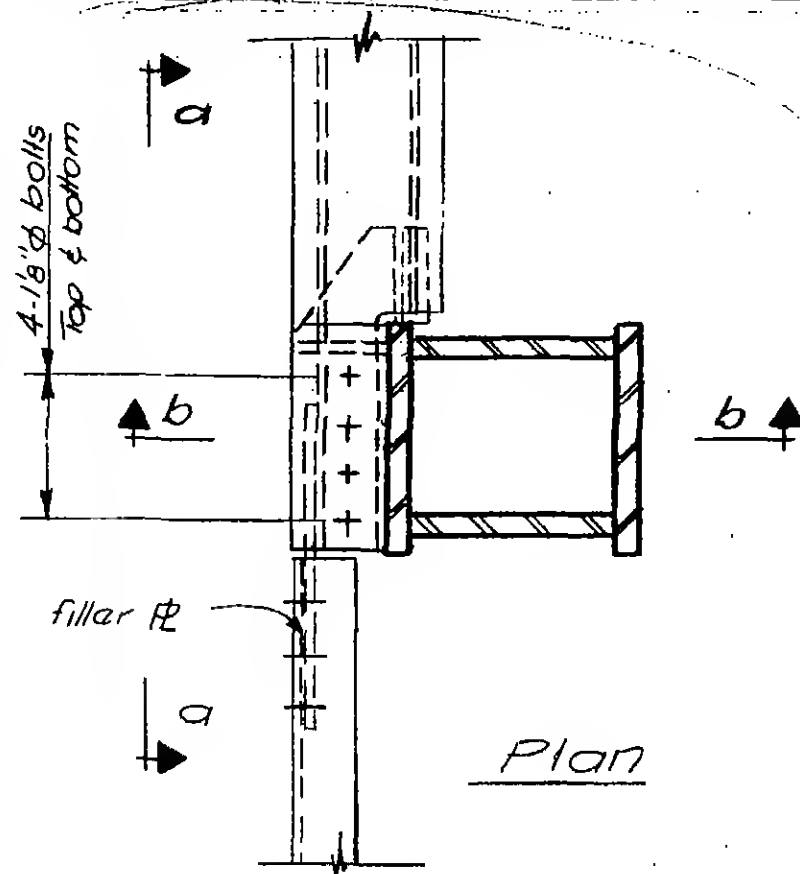
CONNECTION DETAIL 277 A

DATE

7-20-67

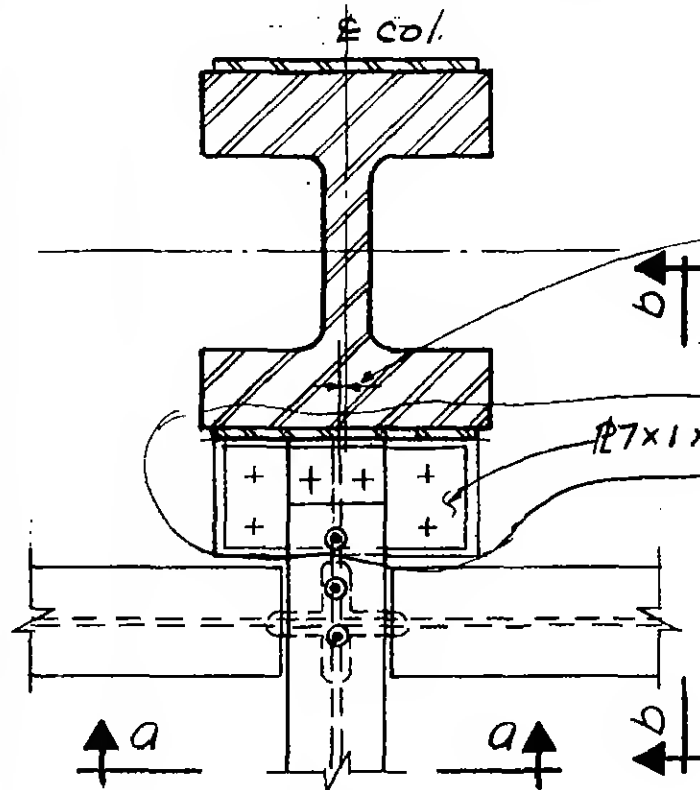
REVISIONS

10-5-67



REVISIONS

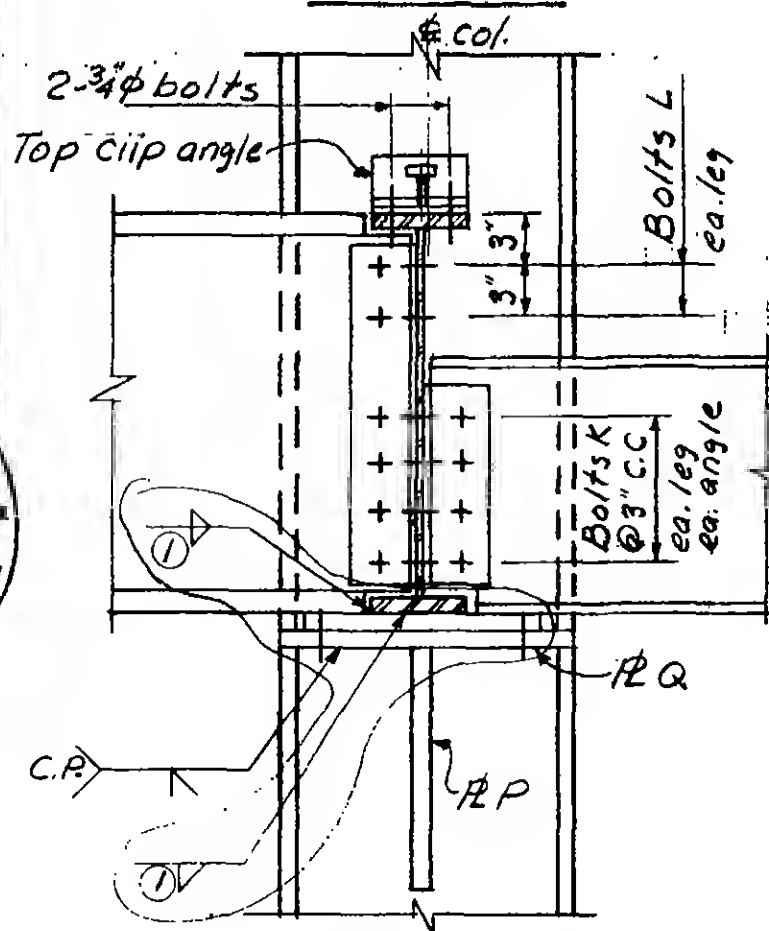
7-28-67
6-24-68



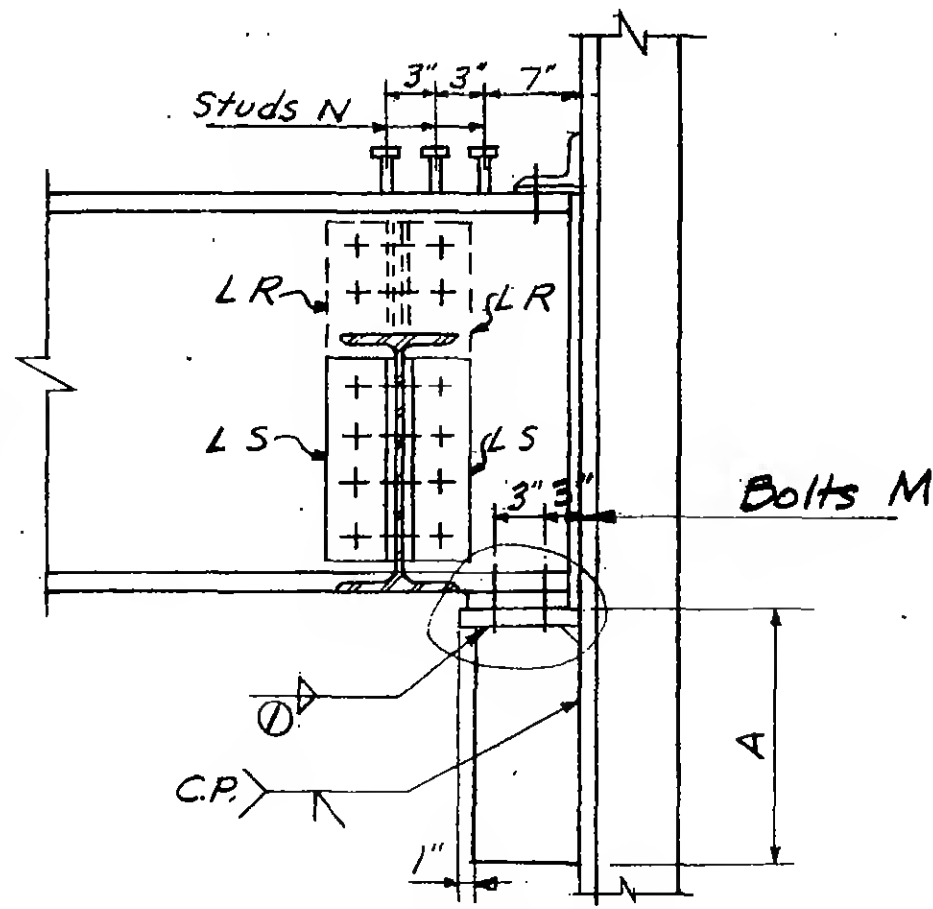
Note:
See plan for location
of beam with respect
to column.

7x1x1'-3"

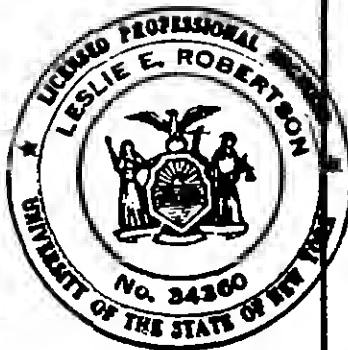
PLAN



Section a-a



Section b-b



WORTHINGTON, SKILLING, HELLE & JACKSON

Civil & Structural Engineers

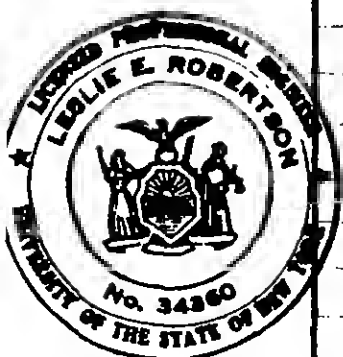
PROJECT THE WORLD TRADE CENTER

TITLE SCHEDULE FOR DETAIL 278 A

DATE 7-28-81

REVISIONS

	278 A					
PLATES						
P	6" x 1/4"					
Q	1/4"					
ANGLES						
R	4 x 3 1/2 x 3/8					
S	4 x 3 1/2 x 3/8					
DIMENSIONS						
A	1'-4"					
BOLTS						
K	4-3/8" φ					
L	2-3/4" φ					
M	4-1/8" φ					
WELDS						
①	3/8					
STUDS						
N	3-3/4" φ x 0'-3"					



6-AB1-85.1

WORTHINGTON, SKILLING, HELLE & JACKSON

Civil & Structural Engineers

PROJECT

THE WORLD TRADE CENTER

TITLE

CONNECTION DETAIL

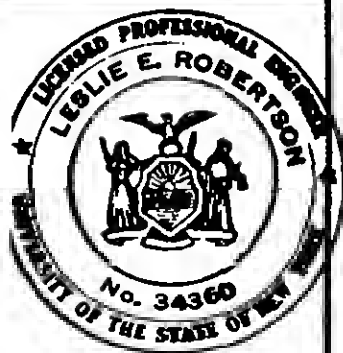
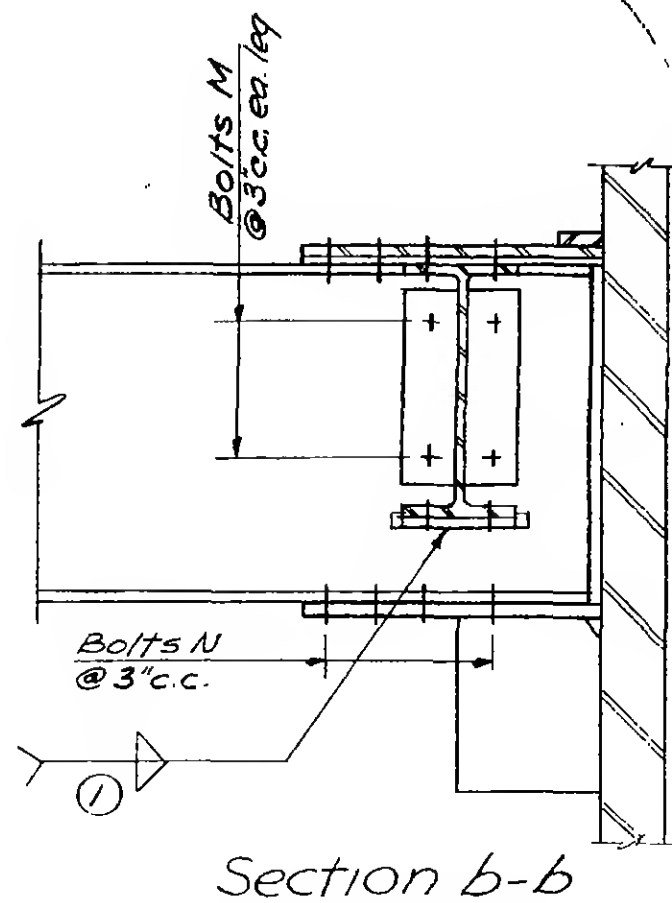
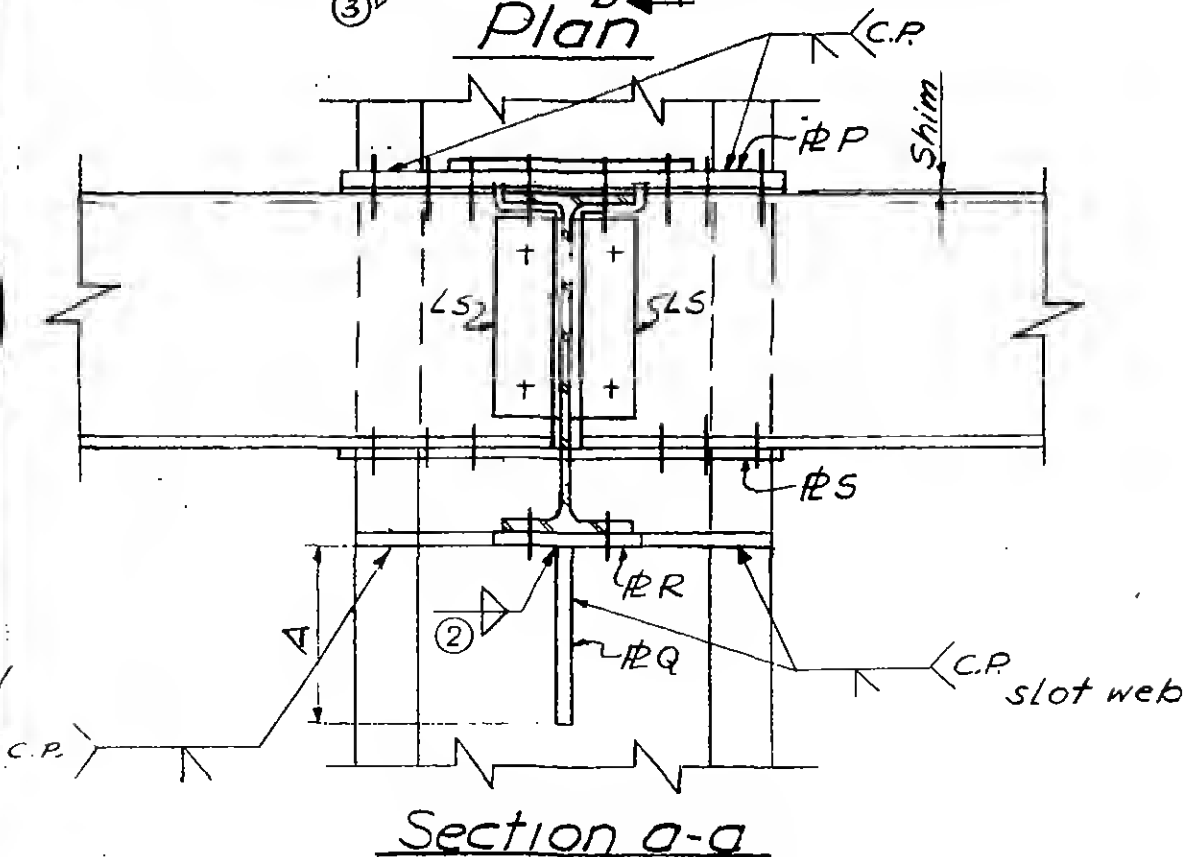
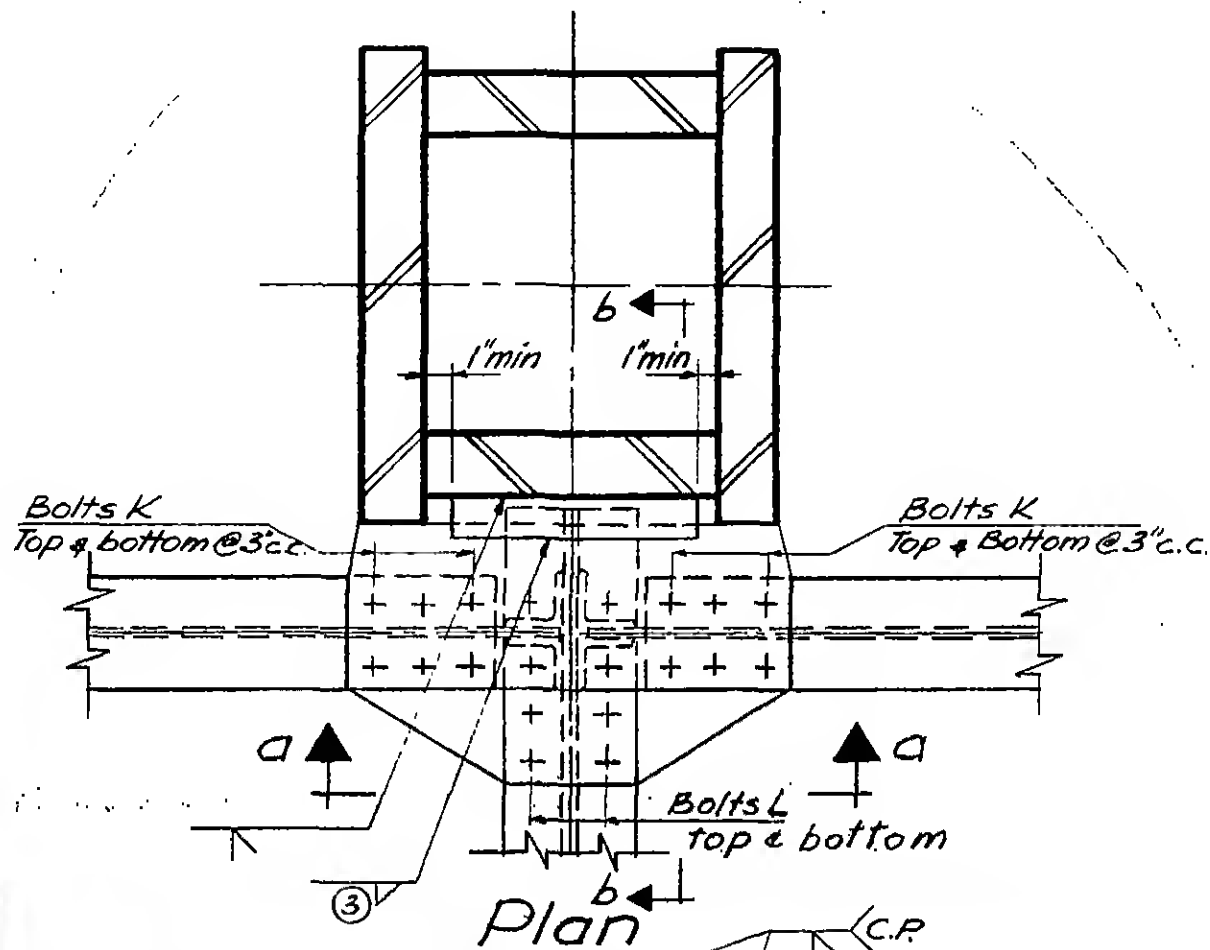
279 A

DATE

6-19-67

REVISIONS

8-14-67



6-ABI-86

Structural & Civil Engineers

TITLE SCHEDULE FOR DETAIL 279 A

DATE 8-14-67

REVISIONS

279A

PLATES

P

34

Q

6" x 3 1/4"

R

34

5

34

ANGLES

5

$$4 \times 32 \times 38 \times 0.82$$

DIMENSION

A

1'-6"

BOLTS

K

6-1/8" ϕ

7

10-1" ϕ

M

3-3 1/2" ϕ

N

10-1" ϕ

WELDS

①

5.

2

30'

2

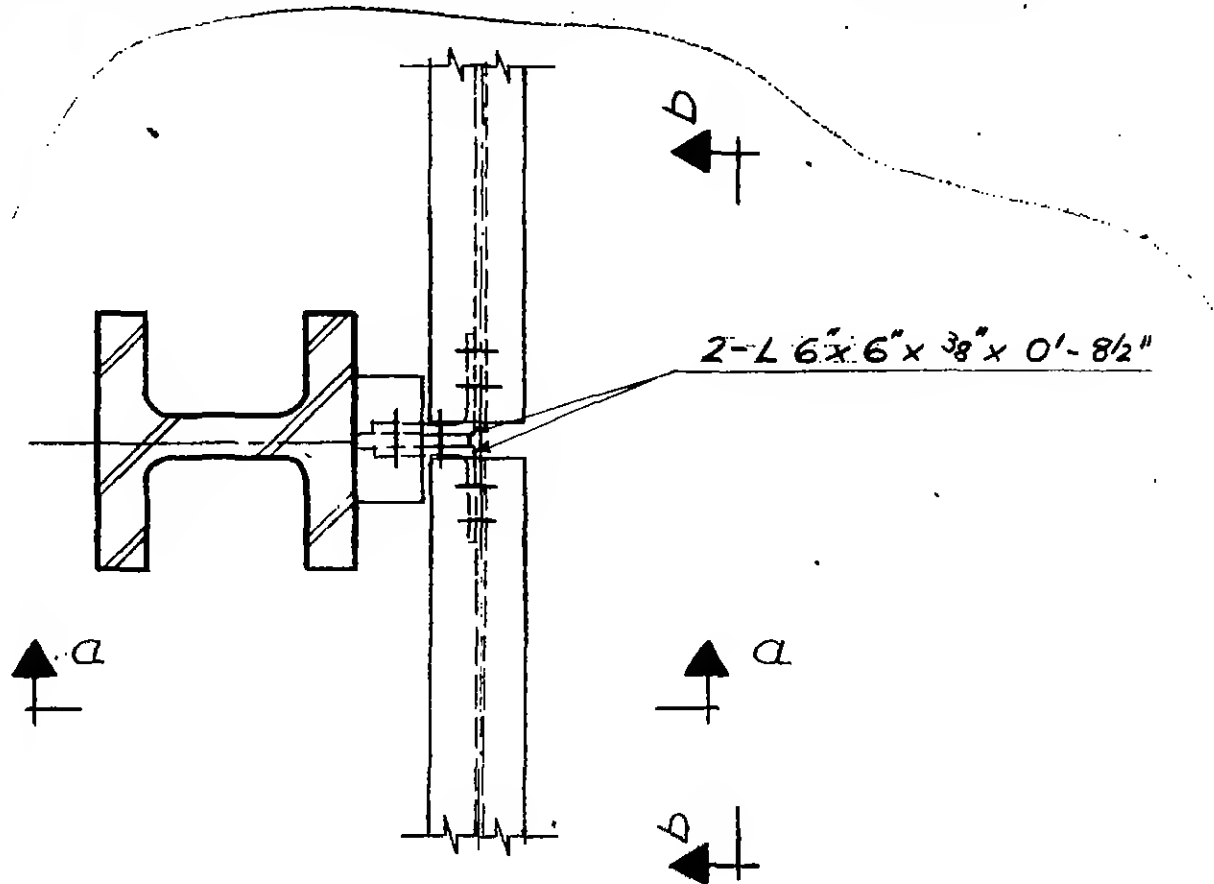
32



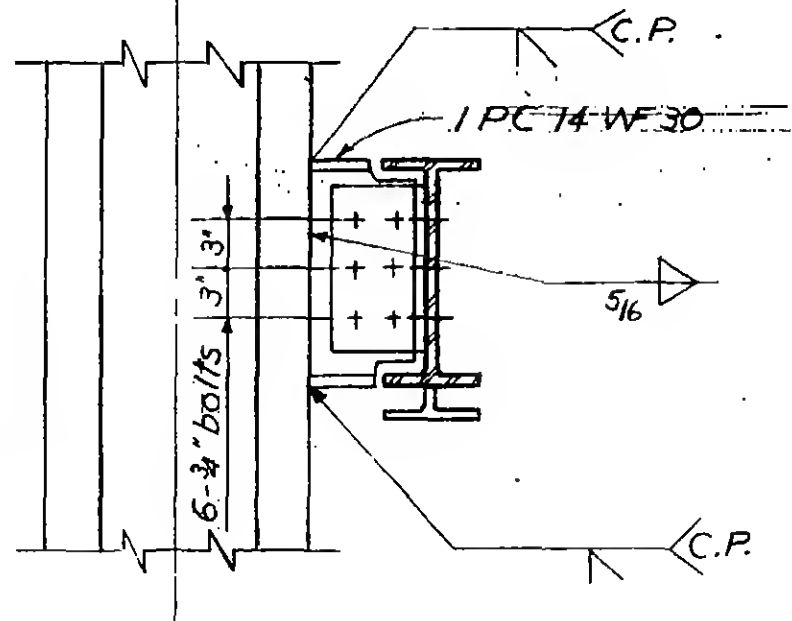
6-ABI-86.1

REVISIONS

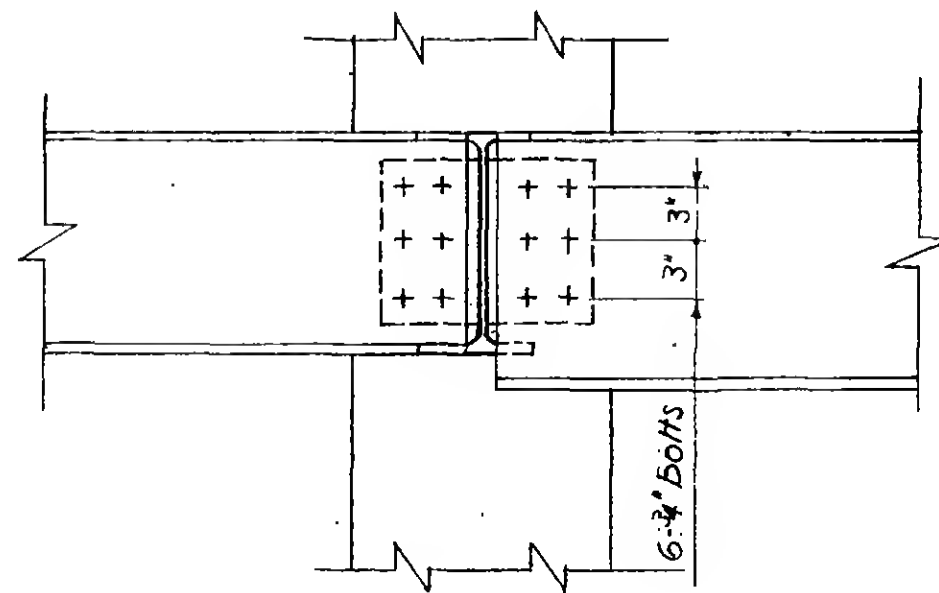
8-14-67



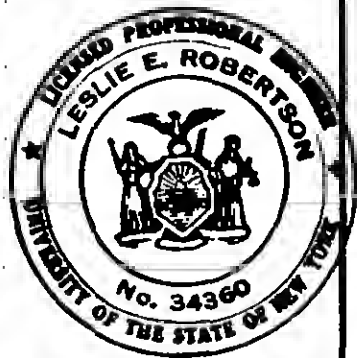
Plan



Section a-a



Section b-b



PROJECT

THE WORLD TRADE CENTER

TITLE

CONNECTION DETAIL 281A

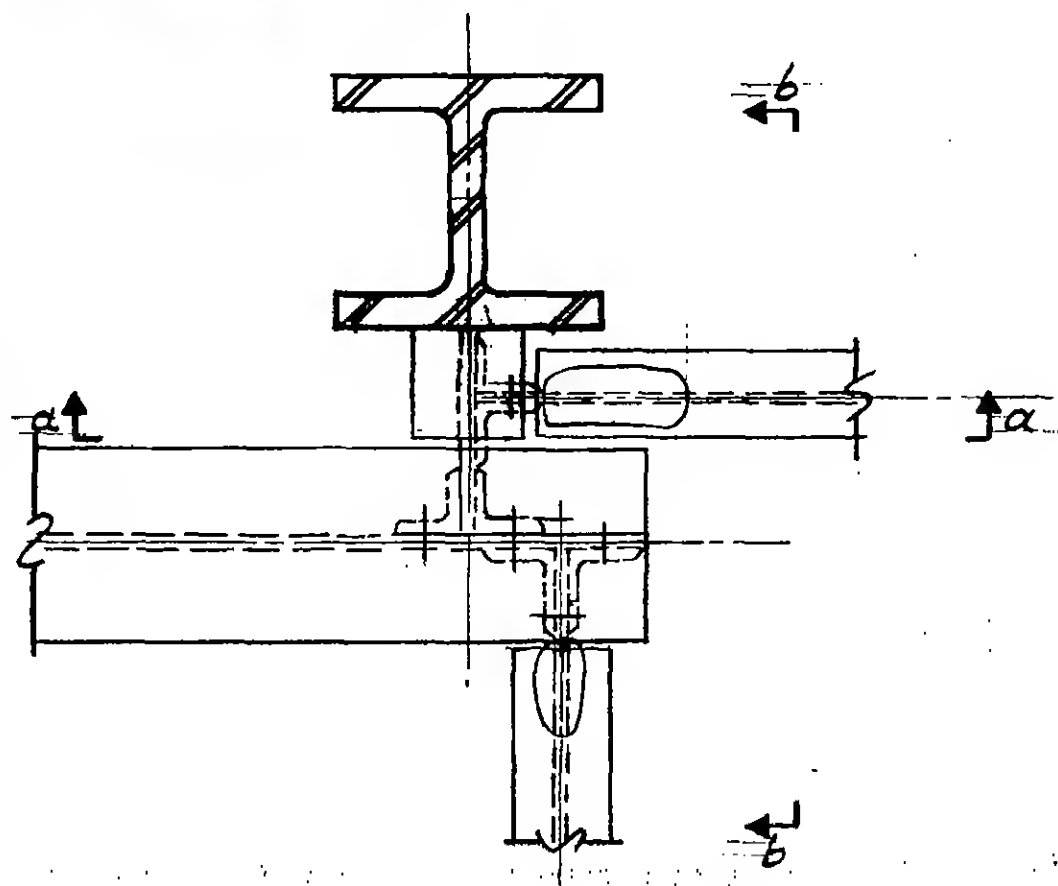
DATE

6-5-67

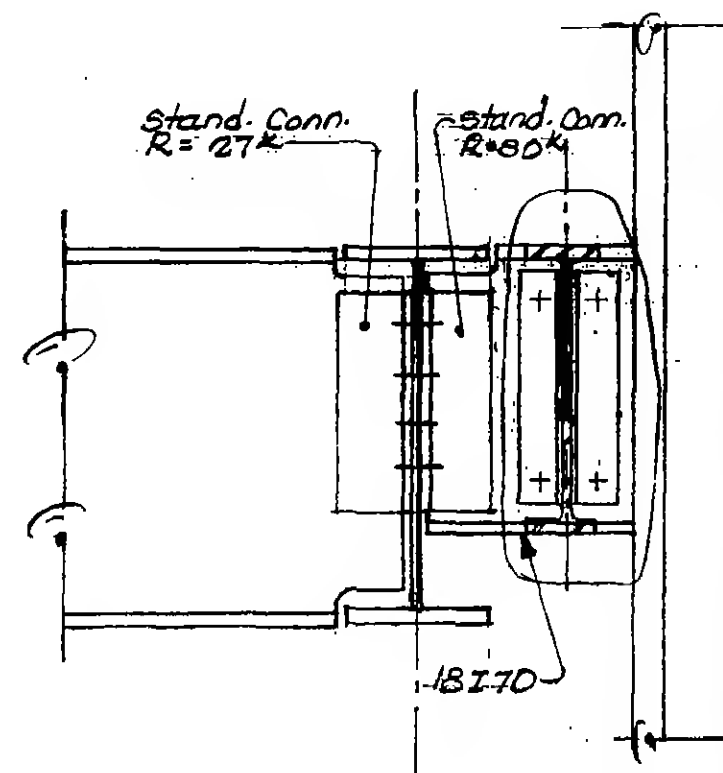
REVISIONS

10-2-67

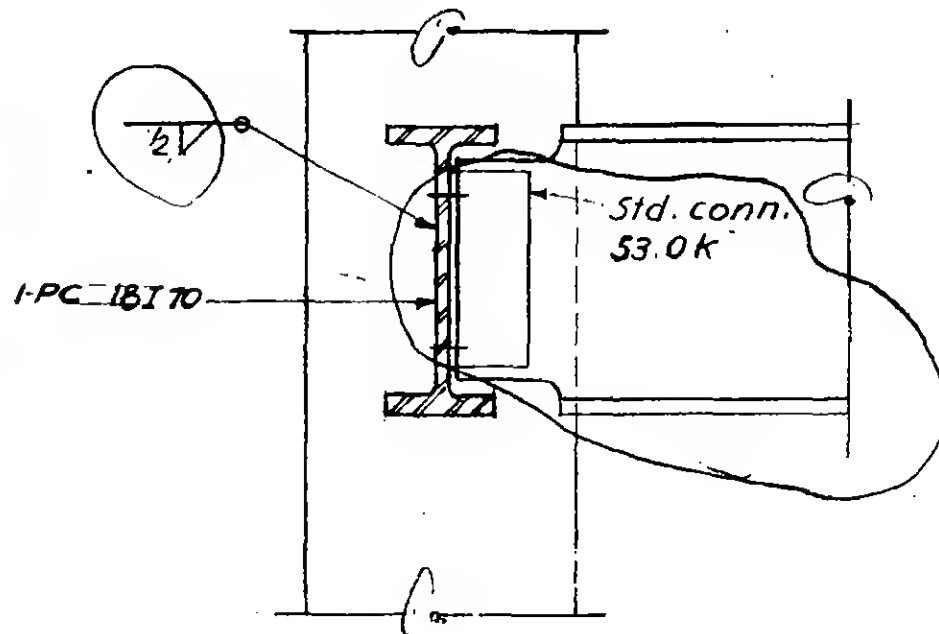
2-21-68



PLAN



Section b-b



Section a-a



PROJECT

THE WORLD TRADE CENTER

TITLE

CONNECTION DETAIL 282 A, B, C, D

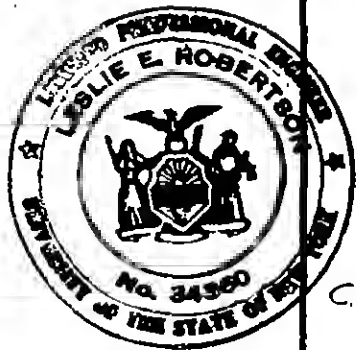
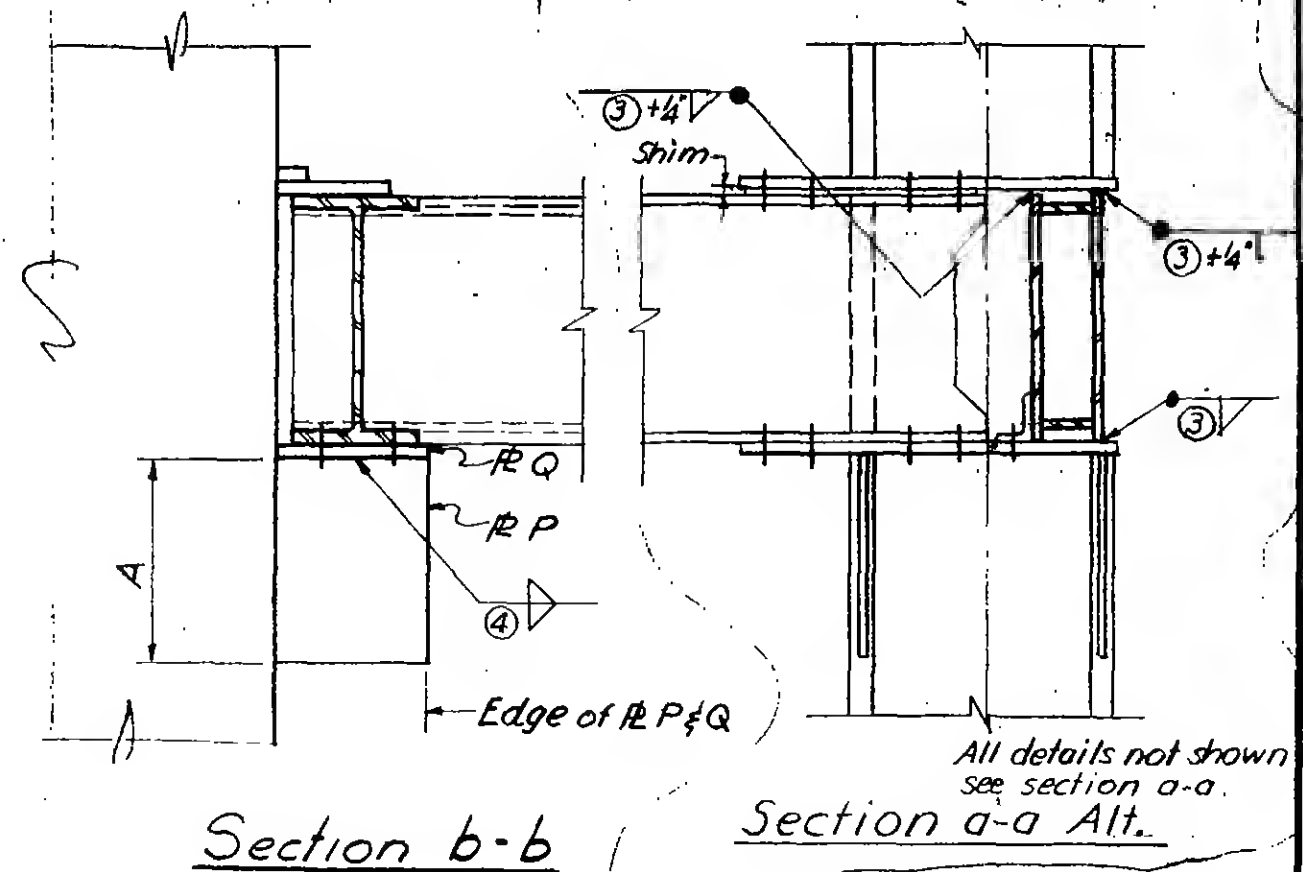
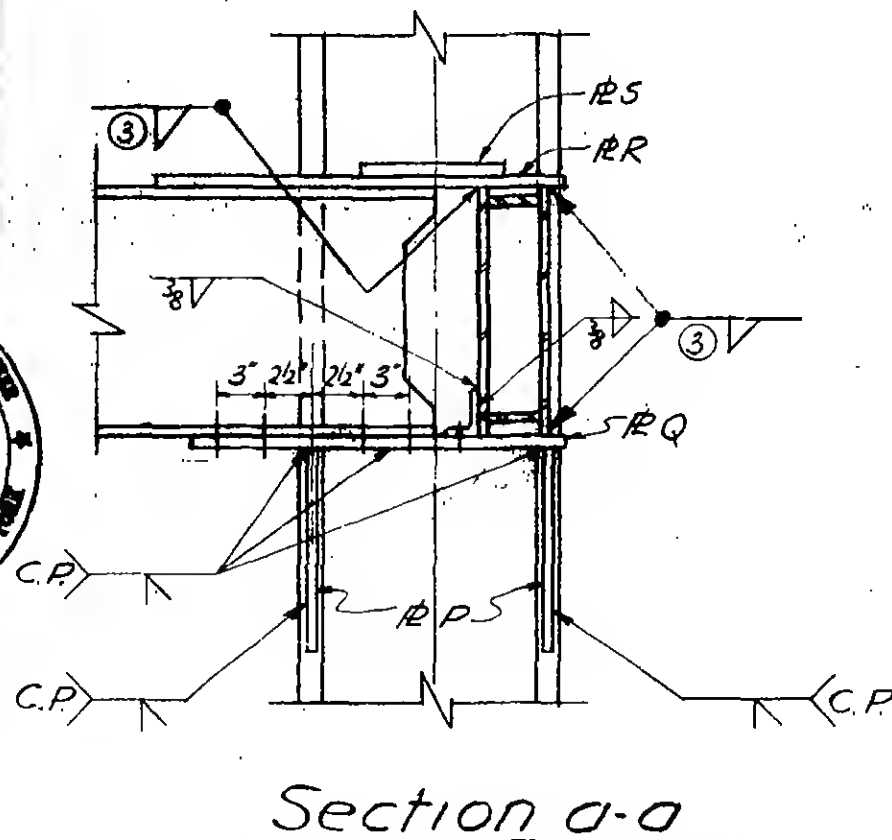
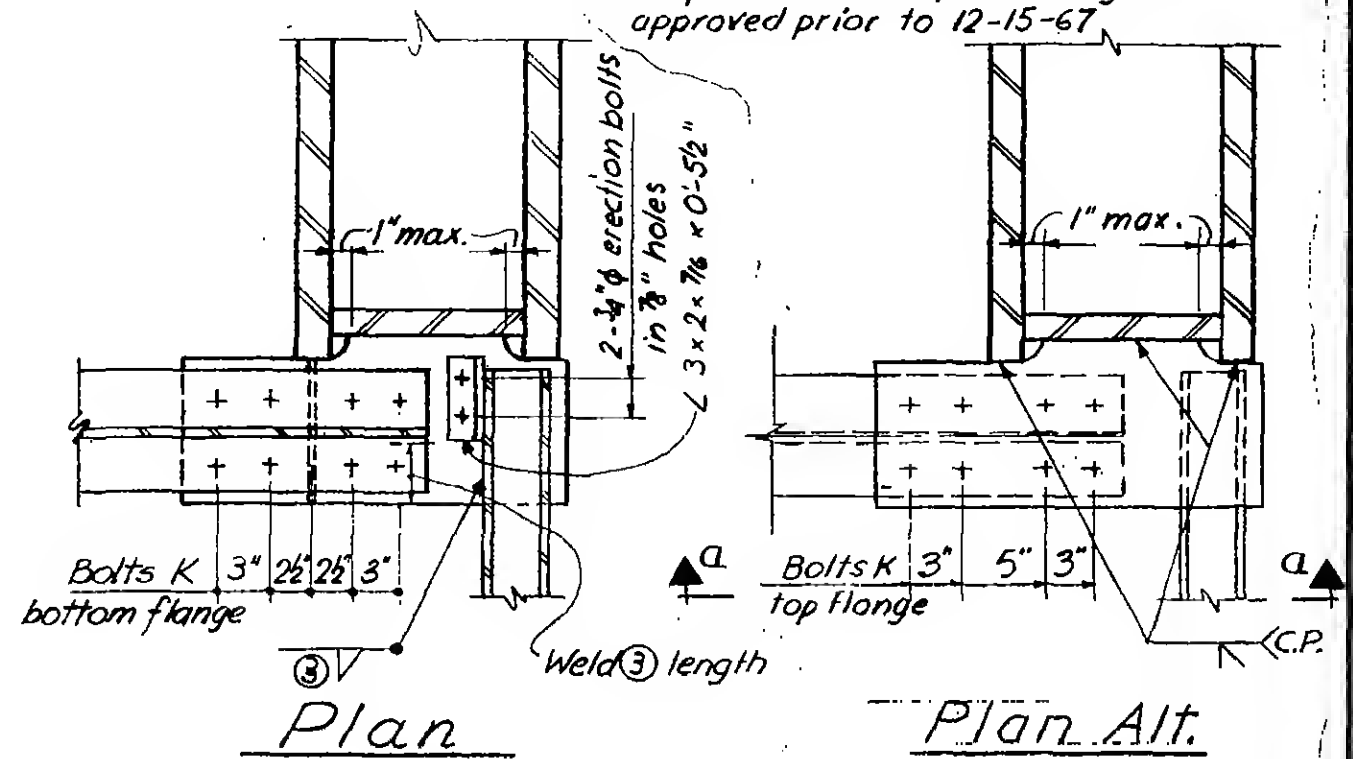
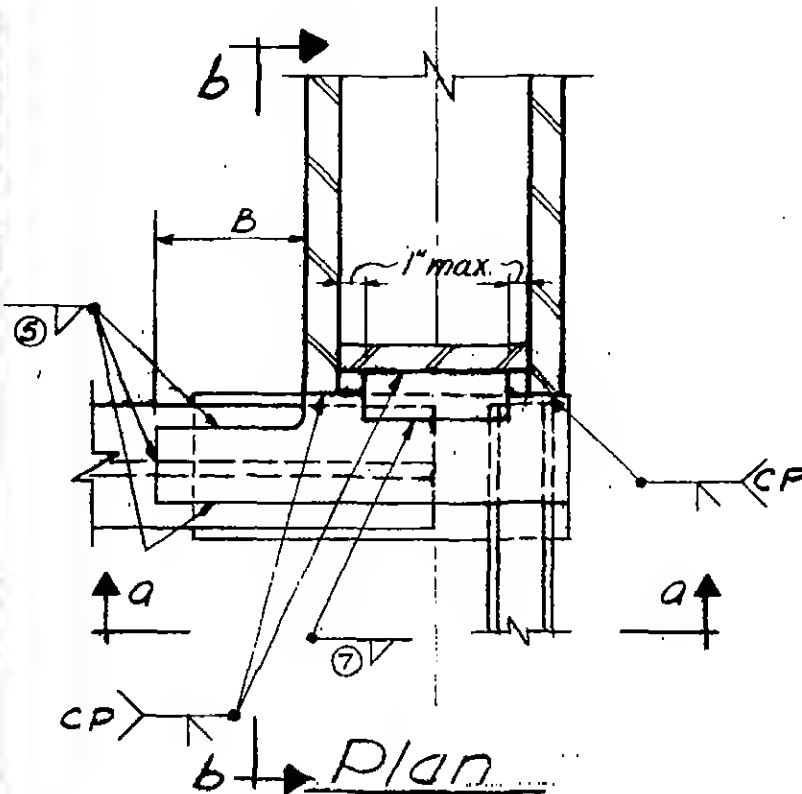
DATE

5-1-67

REVISIONS

5-9-67
7-28-67
8-5-67
11-14-67
12-7-67

Note: Use Alt. detail for all location except where shop drawings are approved prior to 12-15-67



WORTHINGTON, SKILLING, HELLER & JACKSON, INC. CIVIL & STRUCTURAL ENGINEERS

PROJECT THE WORLD TRADE CENTER

TITLE SCHEDULE FOR DETAIL 282 A, B, C, D

DATE 7-28-67

REVISIONS

-5-67

	282 A	282 B	282 C, D			
PLATES						
P	7/16"	5/8"	5/8"			
Q	3/4"	7/8"	3/4"			
R	3/4"	7/8"	3/4"			
S	3" x 3/4"	3" x 7/8"	3/4"			
DIMENSIONS						
A	1'-3"	1'-3"	1'-3"			
B	0'-6"	0'-9"	0'-9"			
BOLTS						
K	8-1" ϕ	8-1 1/8" ϕ	8-1" ϕ			
WELDS						
(3)	9/16	9/16	1/2			
(4)	5/16	5/16	5/16			
(5)	1/2	5/8	1/2			
(7)	5/8	3/4	5/8			



6-ABI-89.1

PROJECT THE WORLD TRADE CENTER

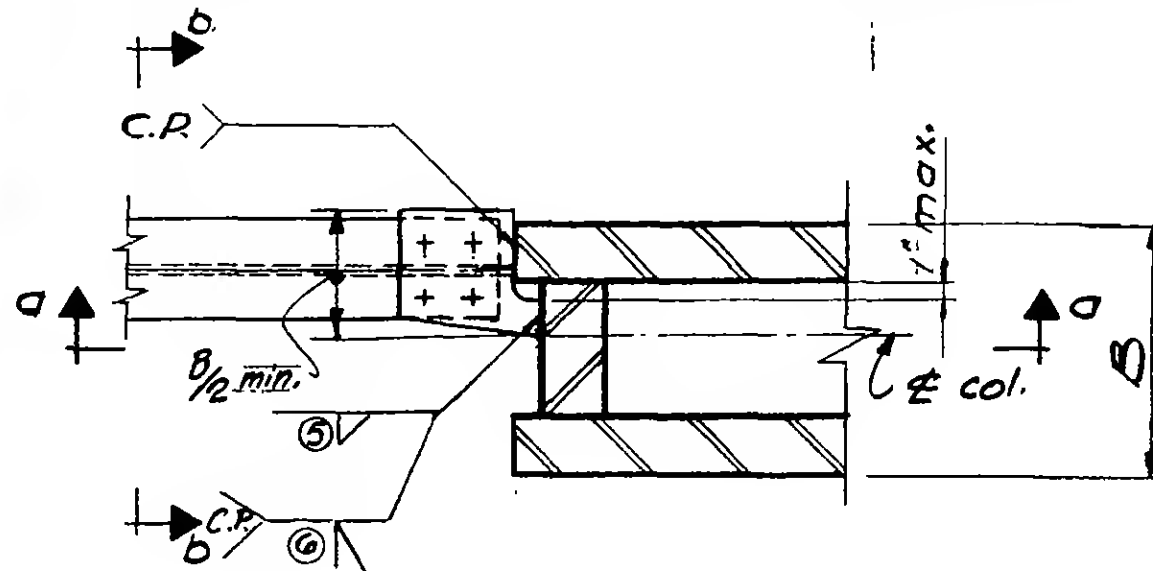
TITLE CONNECTION DETAIL 283 A,B,S,T,Y,Z

DATE 5-1-67

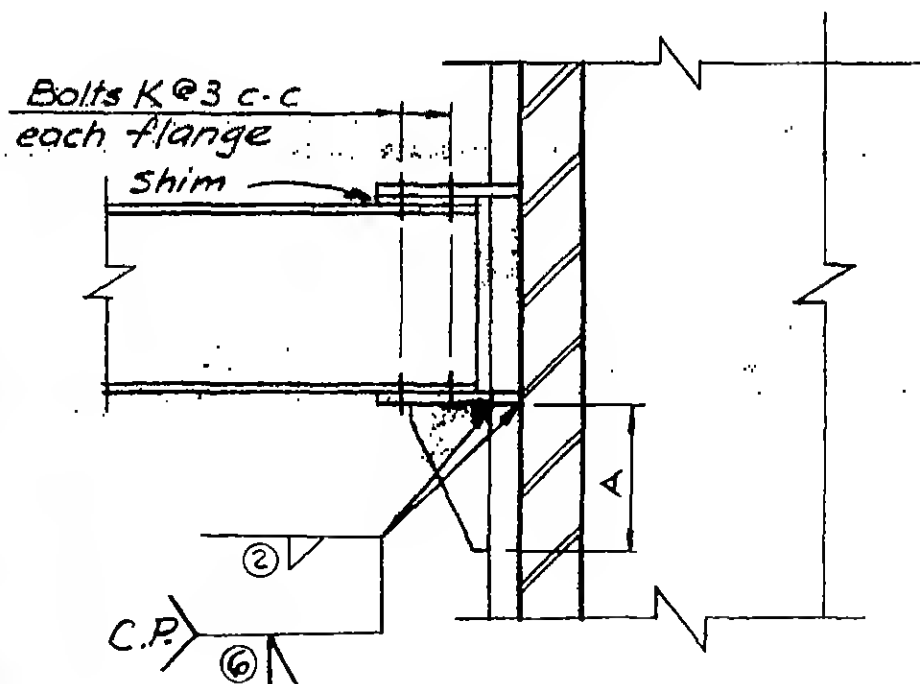
REVISIONS

7-5-67
9-15-67
2-9-68

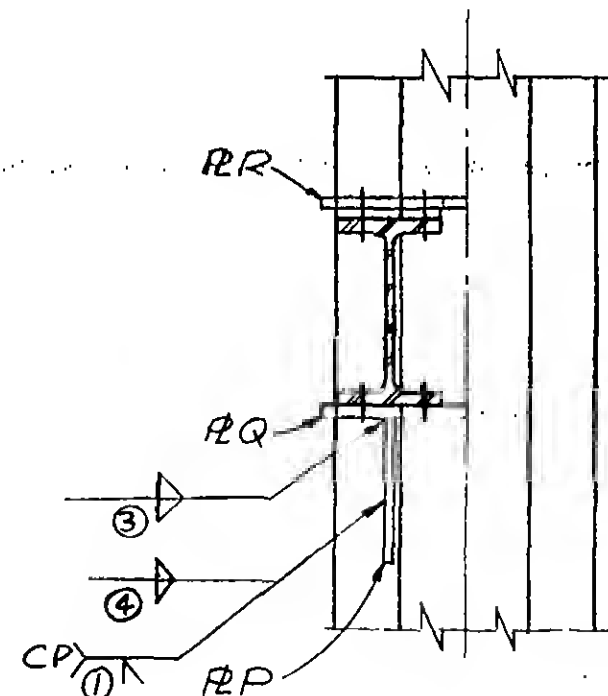
6-ABI-90.5 for schedule 283 A,B
6-ABI-90.9 for schedule 283 S,T,Y
6-ABI-90.11 for schedule 283 Z



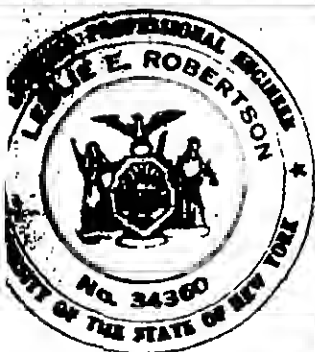
Plan



Section a-a



Section b-b



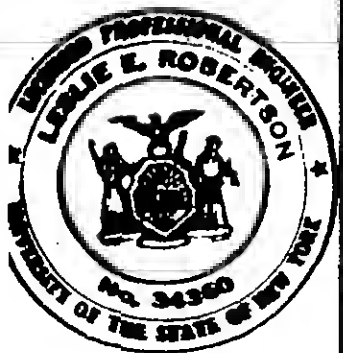
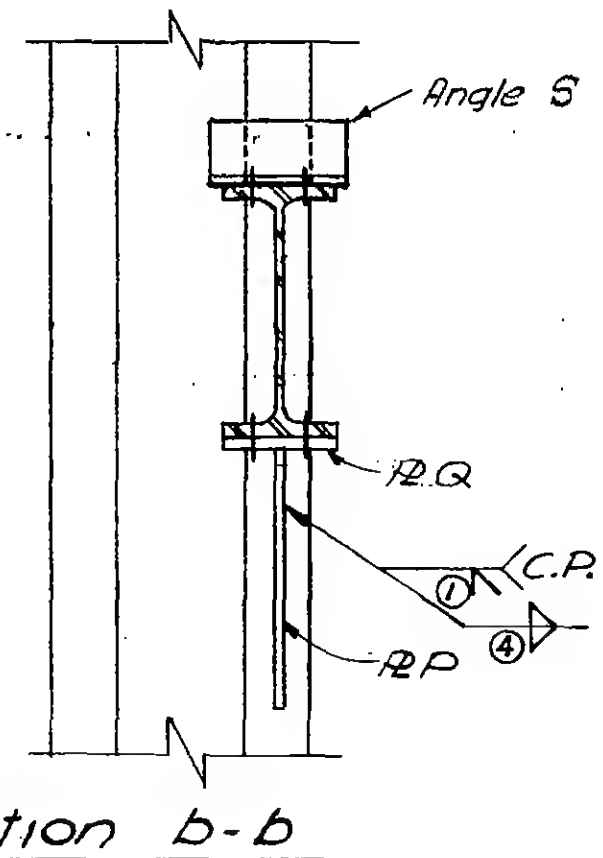
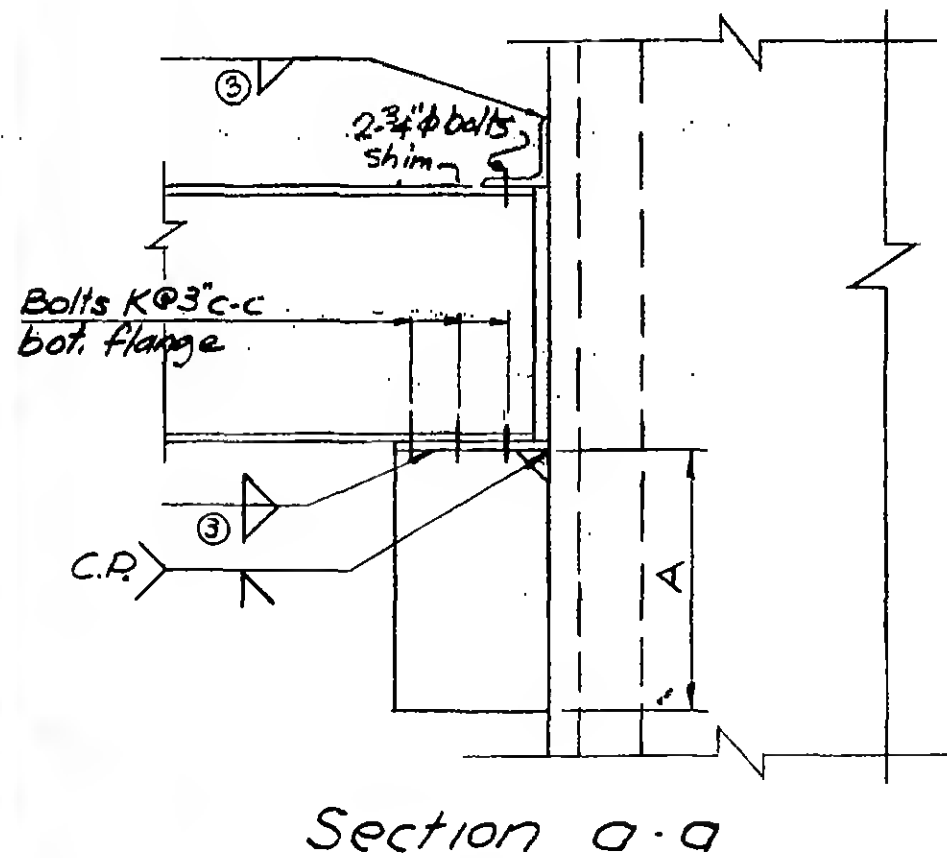
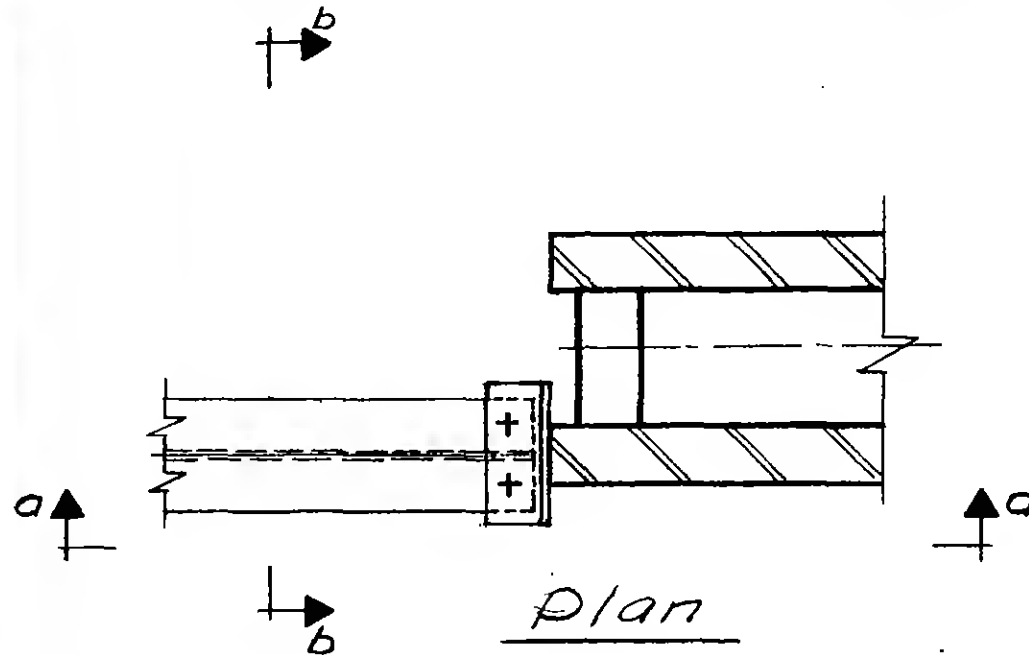
PROJECT THE WORLD TRADE CENTER

TITLE CONNECTION DETAIL 283 C & L

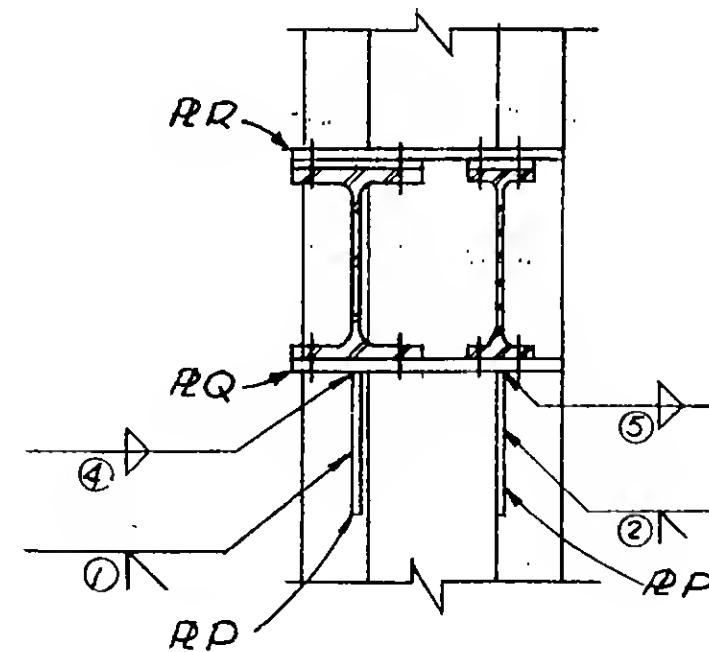
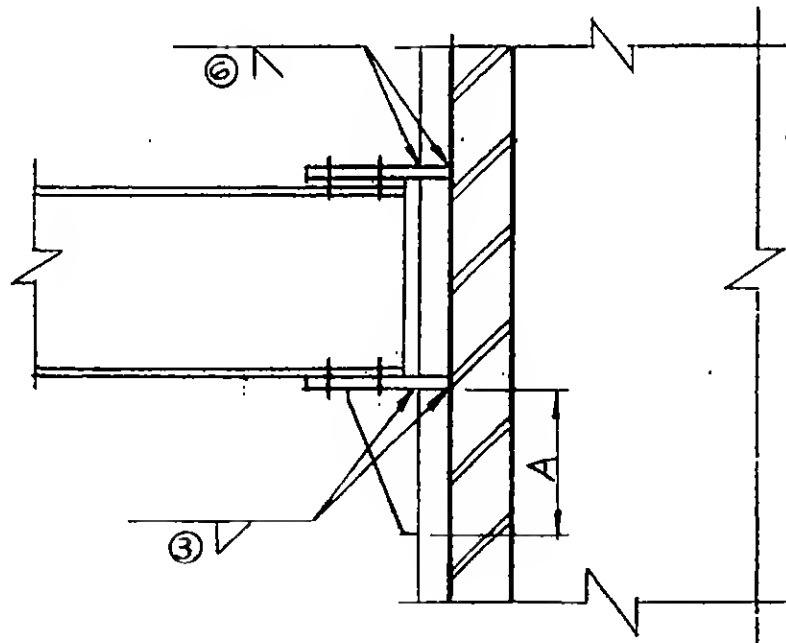
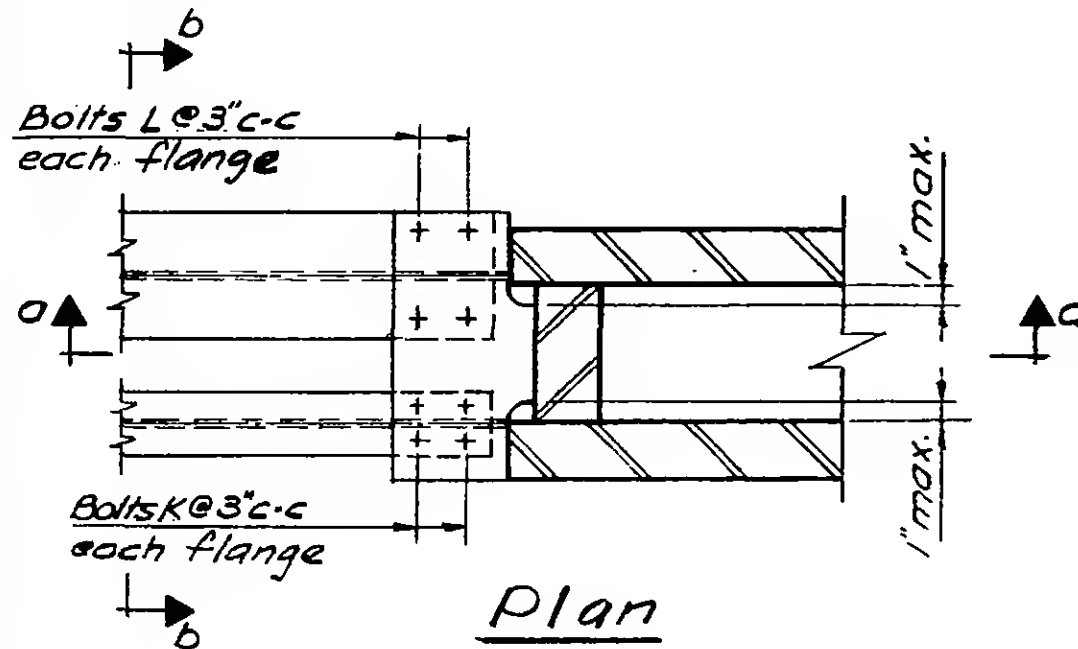
DATE 7-5-67

REVISIONS

7-28-67

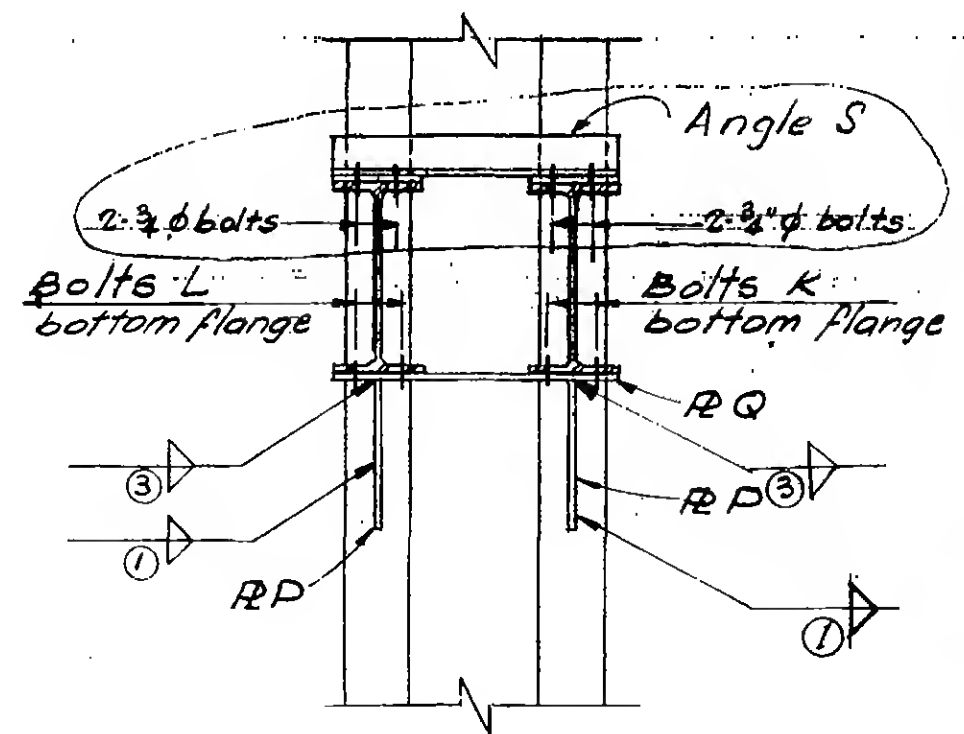
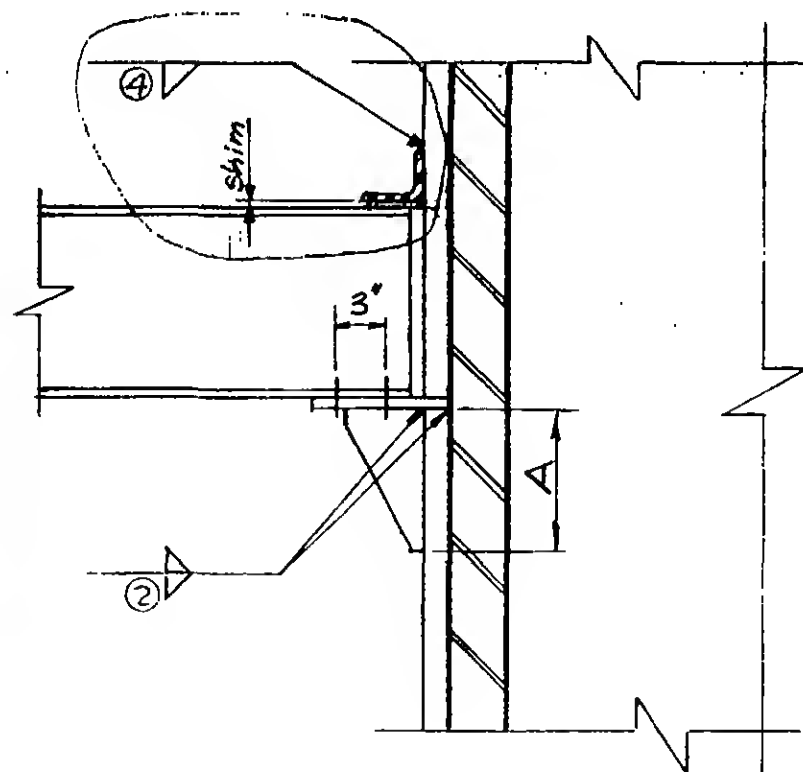
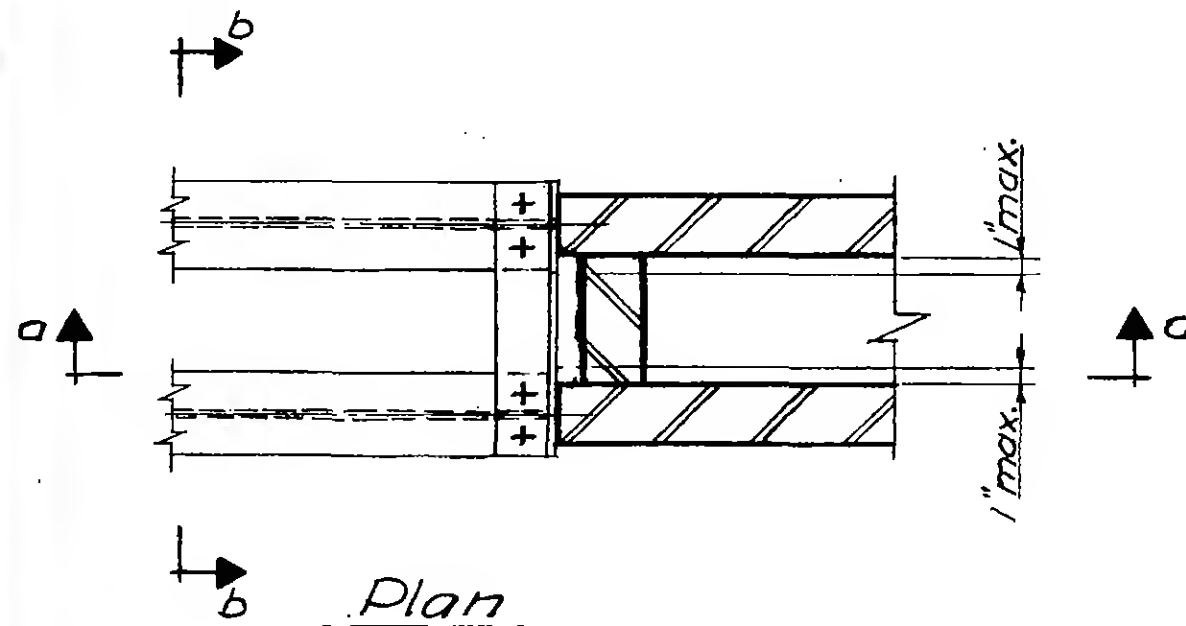


REVISIONS



REVISIONS

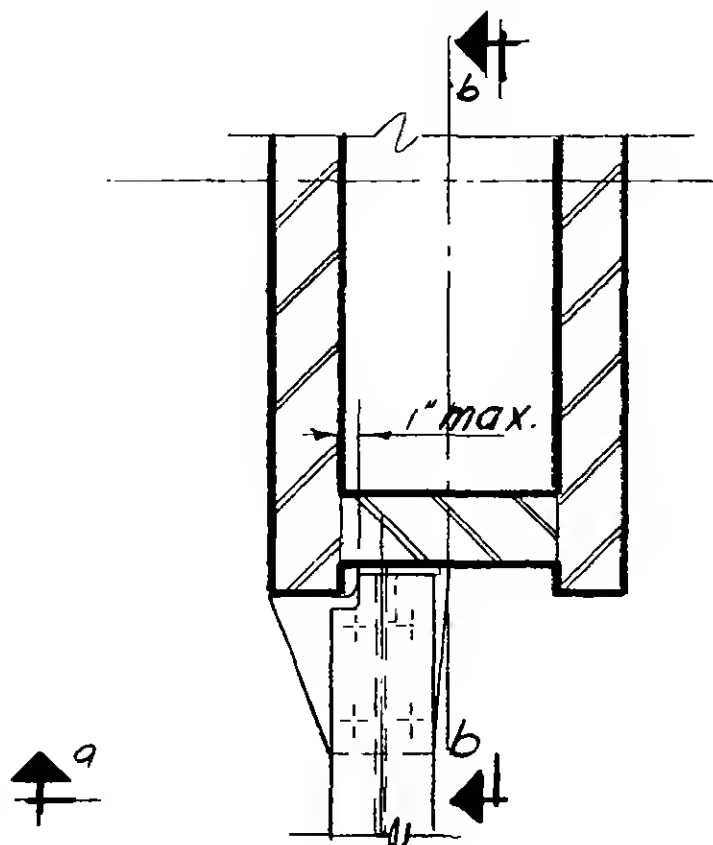
7-28-67



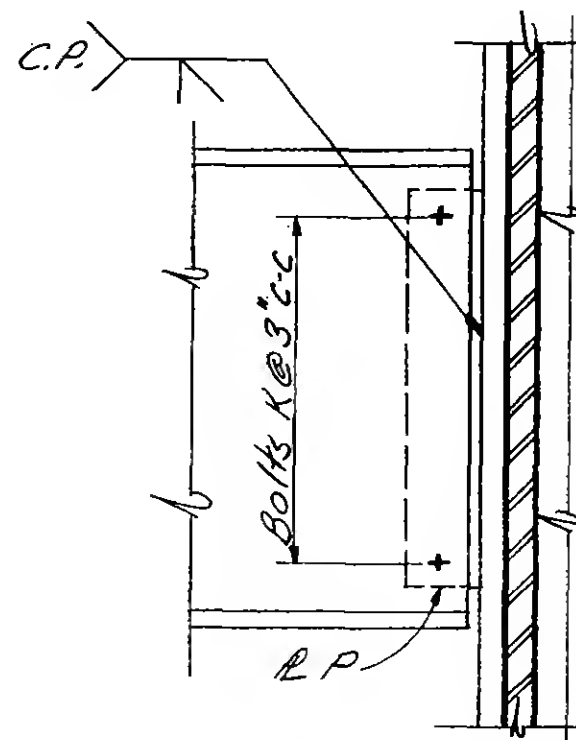
REVISIONS

7-28-67

9-15-67

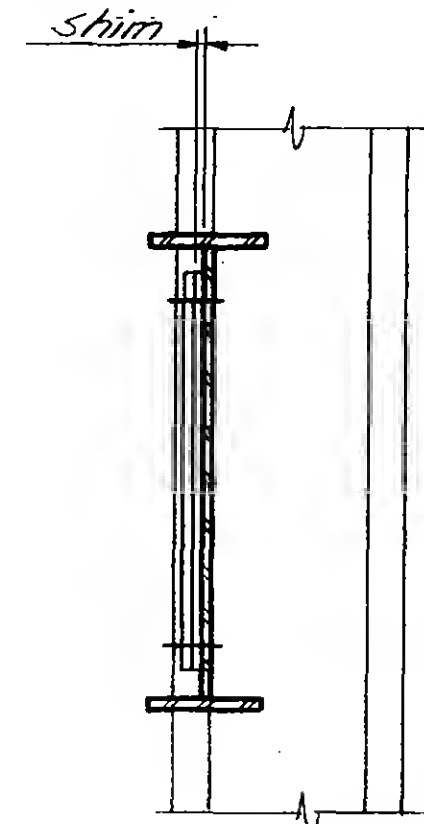


Plan
Detail 283 G&H
& col.

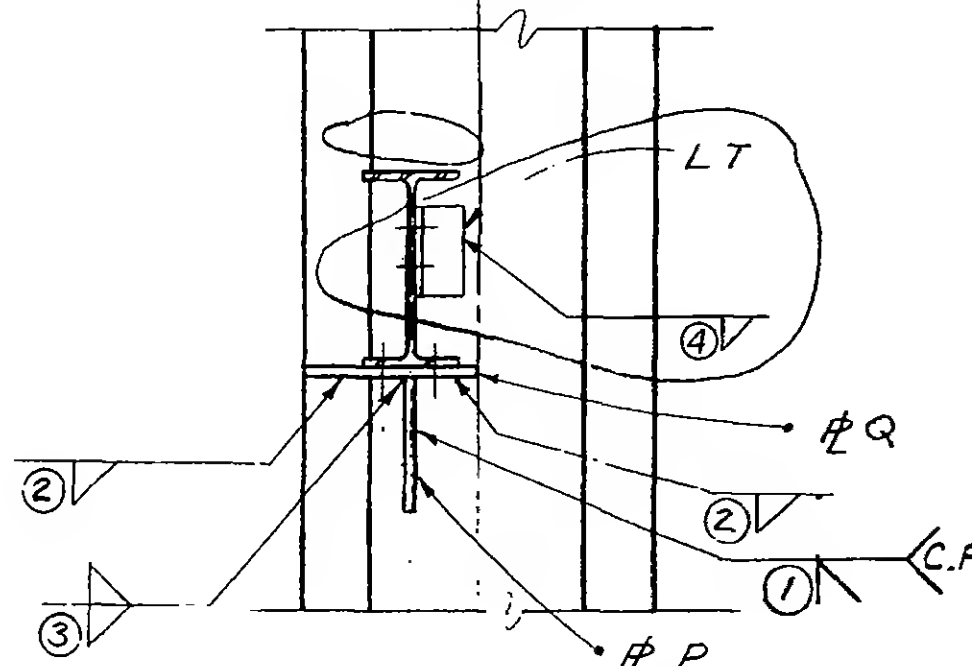


Section a-a

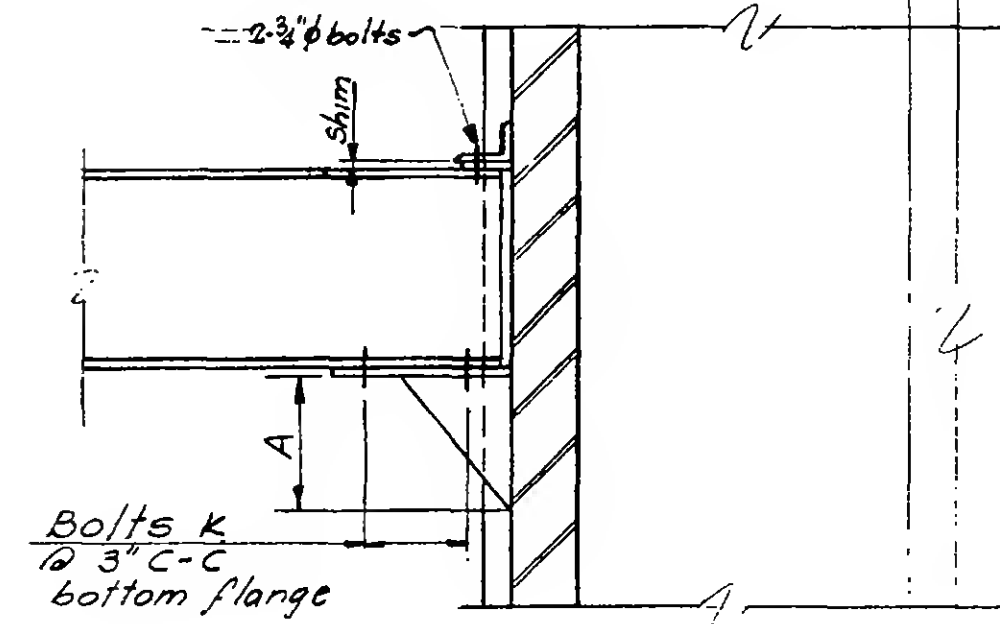
Detail 283 Q



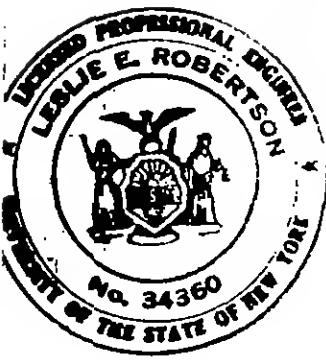
Section b-b



Section a-a



Section b-b



WORTHINGTON, SKILLING, HELLE & JACKSON

Civil & Structural Engineers

PROJECT THE WORLD TRADE CENTER

TITLE SCHEDULE FOR DETAIL 283 A-H

DATE 7-5-67

REVISIONS

1-28-67

REF. DWGS.	G-AB1-90	G-AB1-90	G-AB1-90.1	G-AB1-90.2	G-AB1-90.3	G-AB1-90.4
	283 A	283 B	283 C	283 D & E	283 F	283 G & H
PLATES						
P	5" x 7 1/16"	7" x 7 1/16"	11" x 34"	4 1/2" x 7 1/16"	5" x 7 1/16"	5" x 7 1/16"
Q	7 1/16"	7 1/16"	11" x 34"	12"	11 1/16"	34"
R	7 1/16"	7 1/16"	—	12"	—	—
DIMENSIONS						
A	0'-9"	1'-6"	1'-4 1/2"	1'-0"	0'-9"	0'-9"
BOLTS						
K	4-3/4" (A325)	4-3/4" (A325)	6-1 1/8" (A325)	4-3/4" (A325)	4-3/4" (A325)	4-3/4" (A325)
L	—	—	—	4-1" (A325)	4-3/4" (A325)	—
WELDS						
①	C.P.	C.P.	C.P.	C.P.	7/16	C.P.
②	7/16	7/16	—	C.P.	12	7/16
③	5/16	5/16	5/16	12	5/16	5/16
④	—	—	1/4	5/16	1/4	1/4
⑤	7/16	7/16	—	5/16	—	—
⑥	—	—	—	C.P.	—	—
ANGLES						
S	—	—	4" x 3 1/2" x 5/16" x 0.58"	—	4" x 3 1/2" x 5/16"	4" x 3 1/2" x 5/16" x 0.58"

G-AB1-90.5

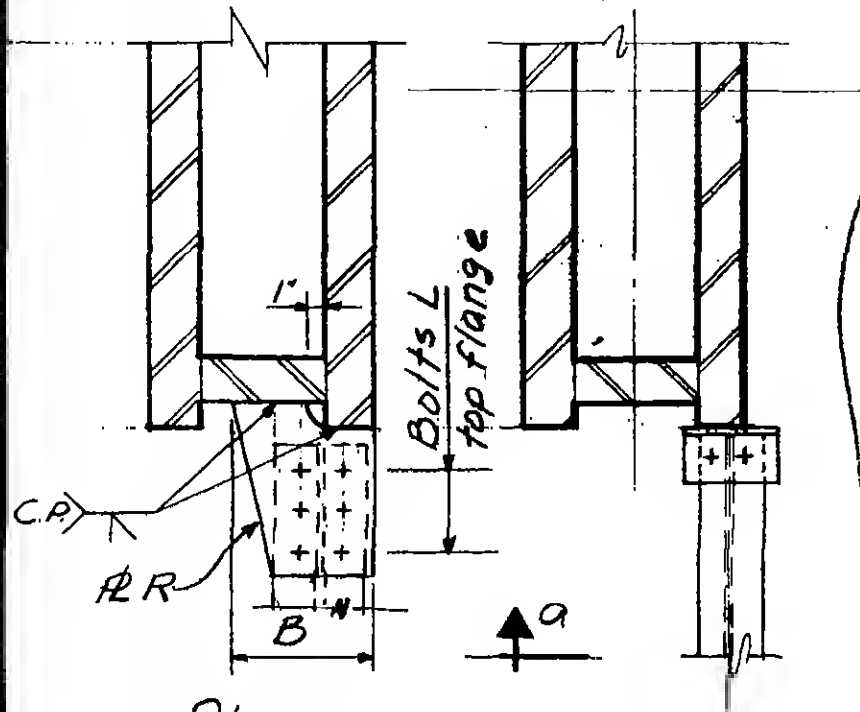


REVISIONS

7-28-67

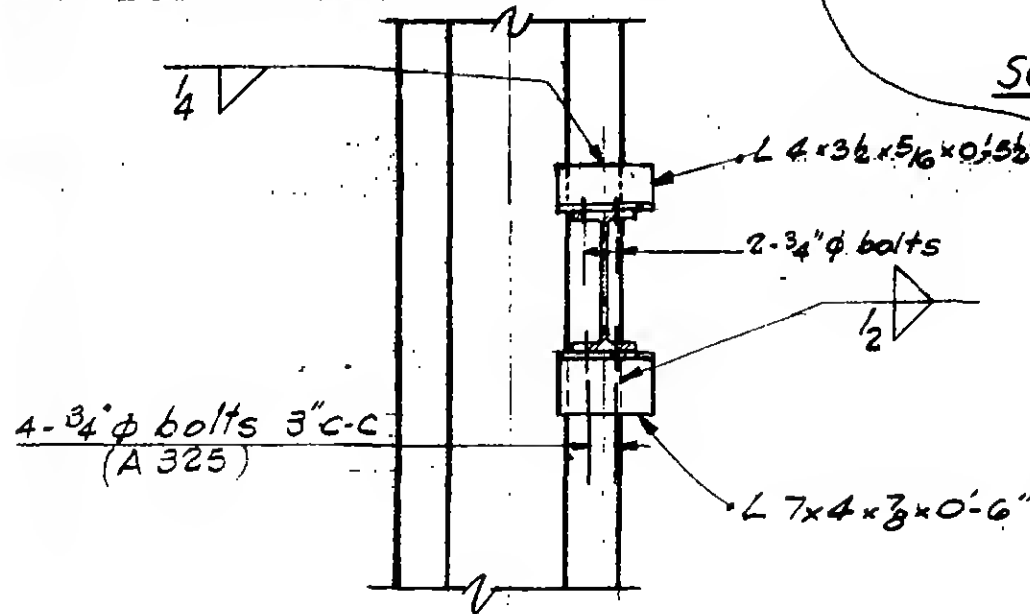
8-5-67

5-6-68

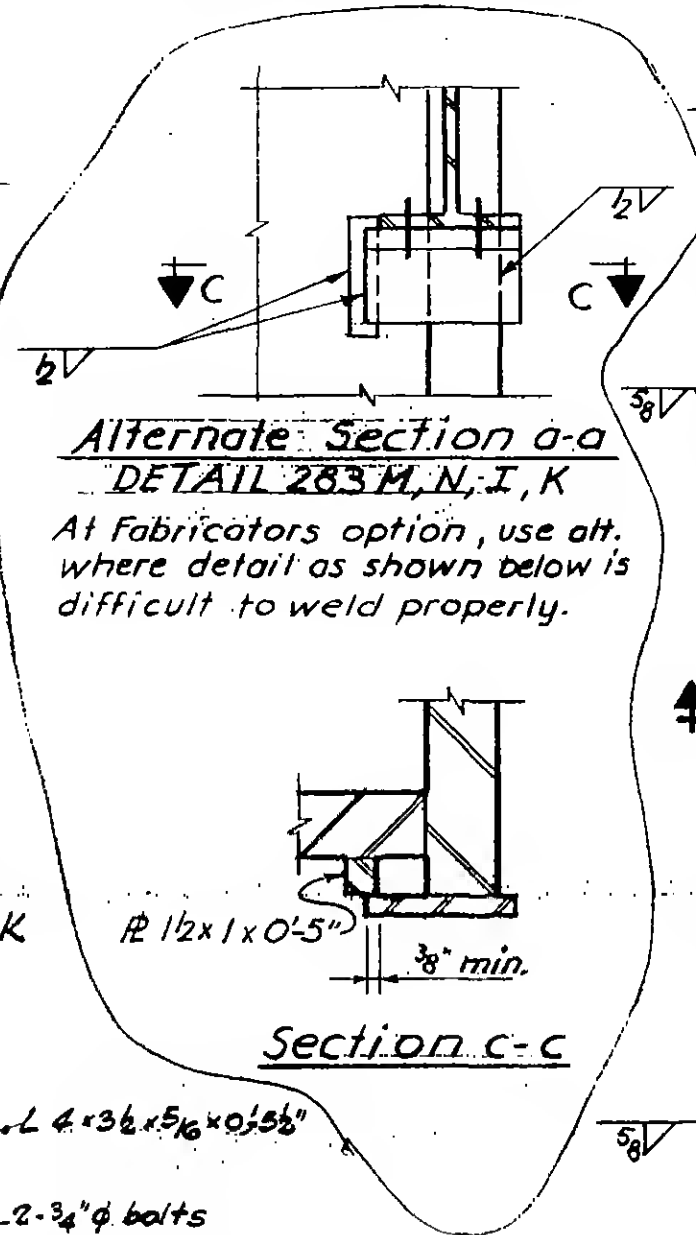


Plan
DETAIL 283 M & N
Bottom flange conn.
same as Detail 283 I

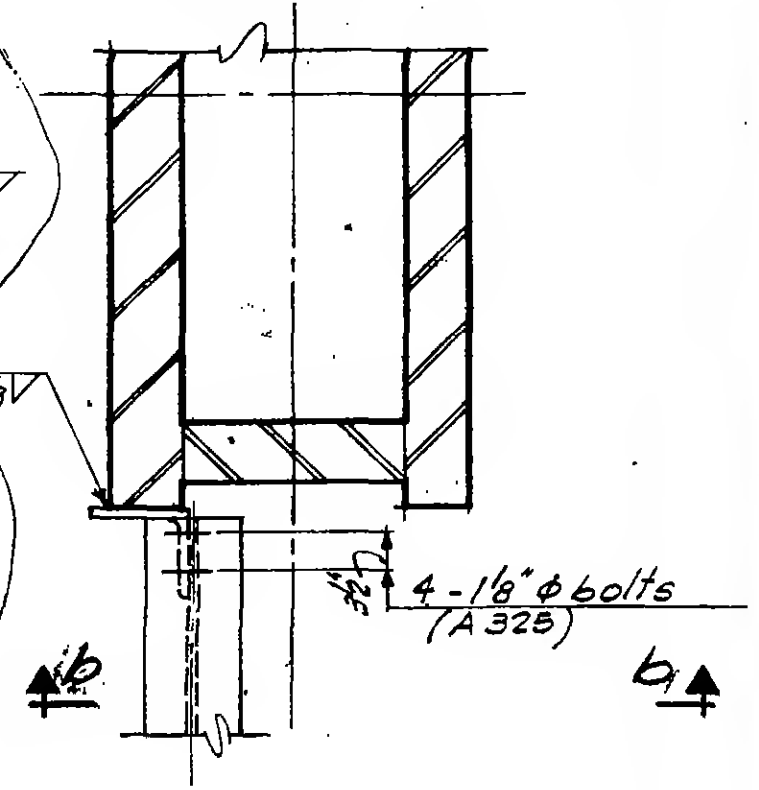
Plan
DETAIL 283 I & K



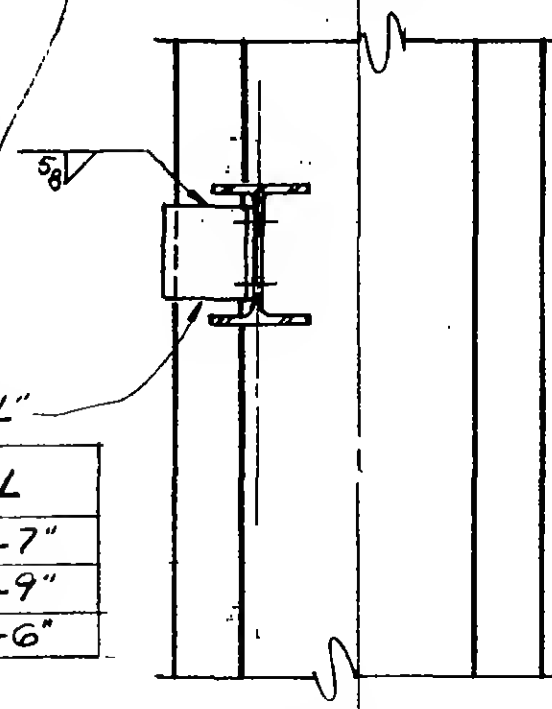
Section a-a



Section c-c



Plan
DETAIL 283 J



Section b-b

Beam size	L
10"	0'-7"
12"	0'-9"
8"	0'-6"



Structural & Civil Engineers

PROJECT

THE WORLD TRADE CENTER

TITLE

SCHEDULE FOR DETAIL 283 L, M, N, (P), Q & R

DATE 7-28-67

REVISIONS

9-15-67

10-2-67

[illegible]

PROJECT

THE WORLD TRADE CENTER

TITLE

CONNECTION DETAIL

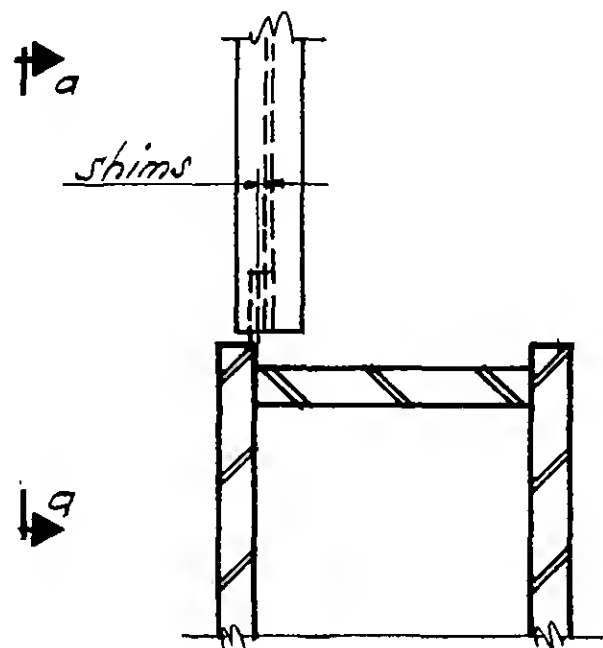
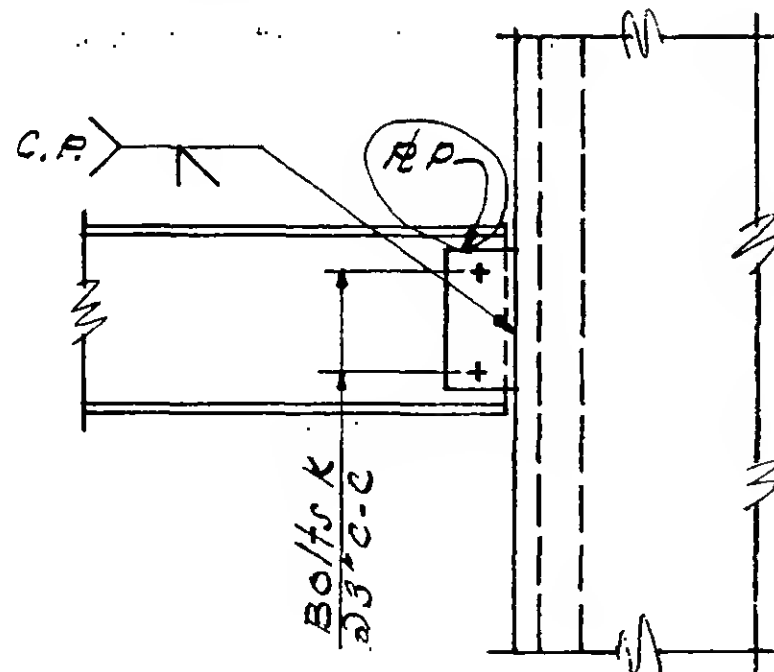
283 P, R, U & V

DATE

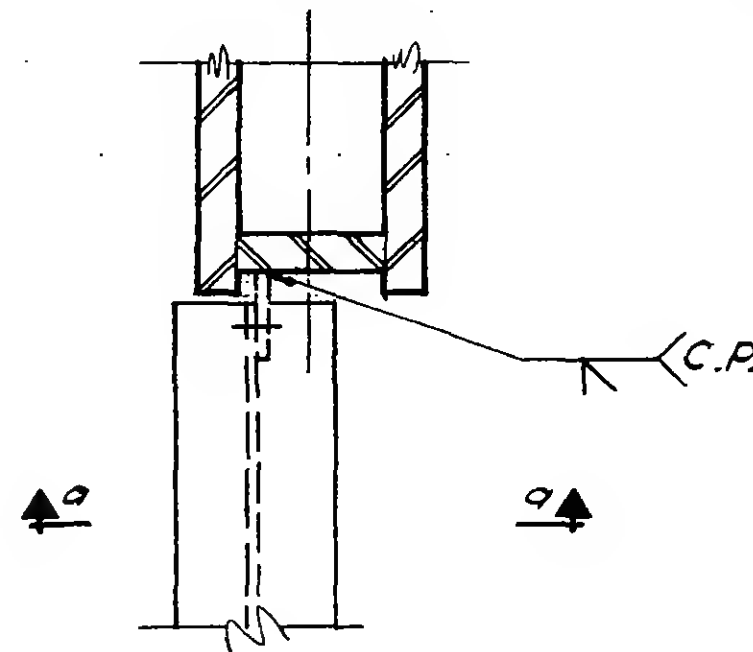
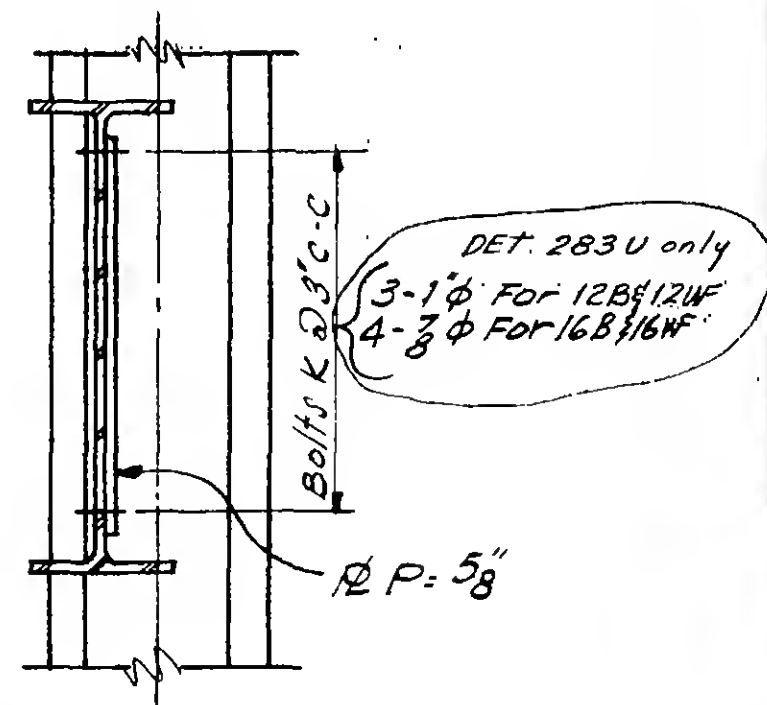
9-15-67

REVISIONS

1-2-67

Plan

Section a-a
DETAIL 283 R & V

Plan

Section a-a
DETAIL 283 P, U & V

G-ABI-90.8



Structural & Civil Engineers

TITLE	SCHEDULE FOR DETAIL 283 S, T, U, V, W, Y
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DATE 9-15-67

REVISIONS

10-2-67
2-9-68

[illegible]

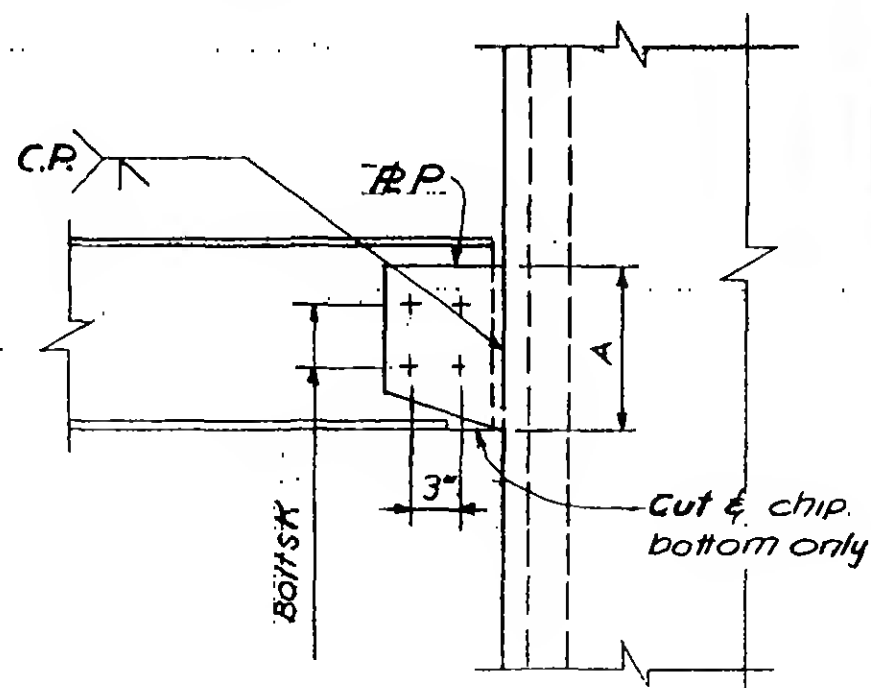
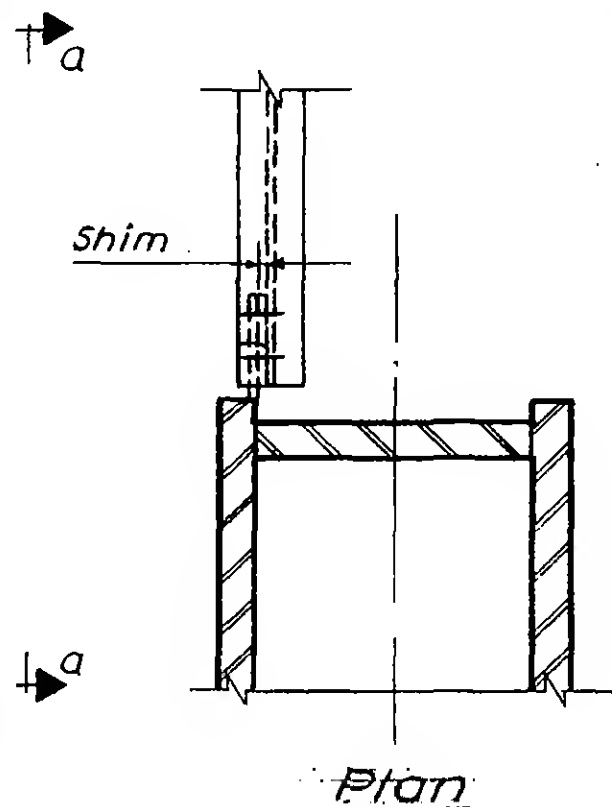
PROJECT THE WORLD TRADE CENTER

TITLE CONNECTION DETAIL 283 W, X

DATE 10-2-67

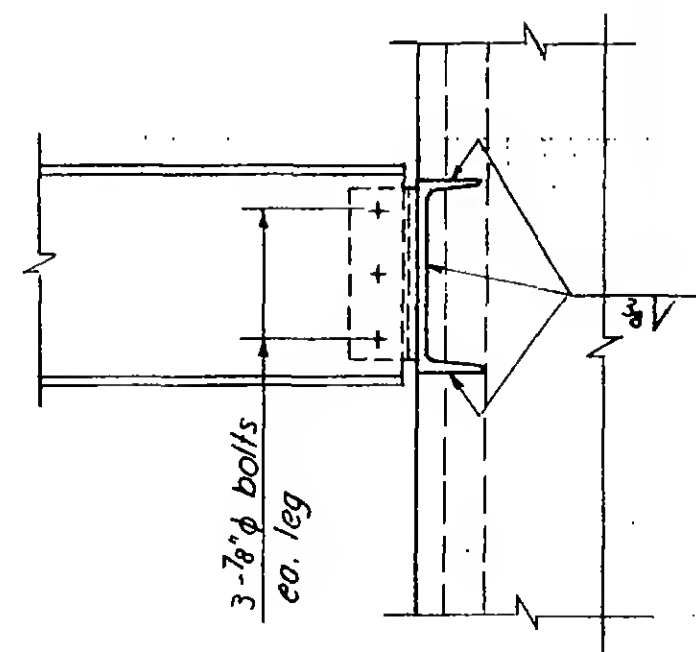
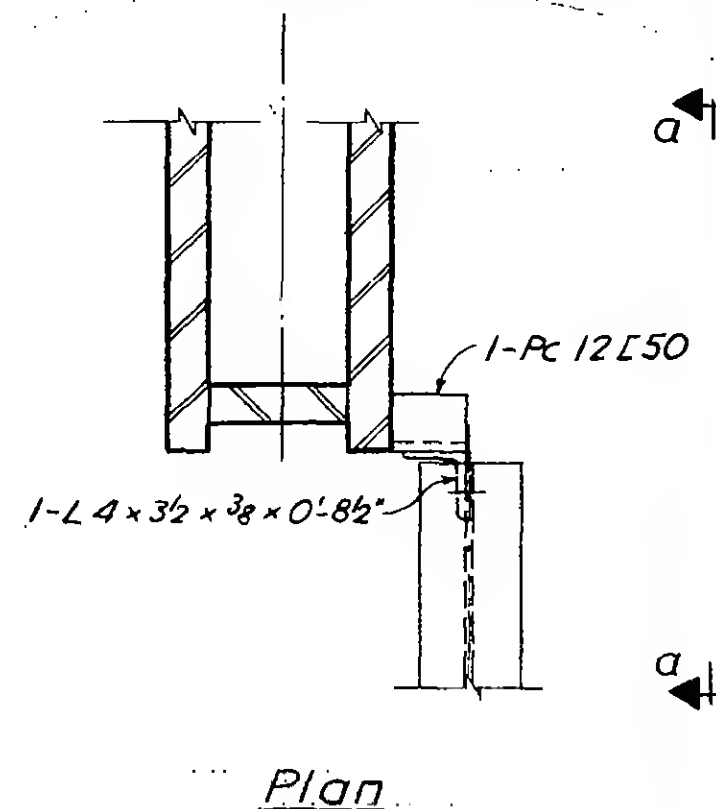
REVISIONS

12-21-67



Section a-a

Detail 283 W



Detail 283 X

6-ABI-90.10



SKILLING - HELLE - CHRISTIANSEN - ROBERTSON

Structural & Civil Engineers

PROJECT

THE WORLD TRADE CENTER

TITLE

SCHEDULE FOR DETAIL 283 Z

DATE

2-9-68

REVISIONS

REF. DWGS.

6-ABI-90

283 Z

PLATES

P

7" x 7/8"

Q

7/8"

R

1/2

DIMENSION

A

1'-2"

BOLTS

K

4-3/4" ϕ

WELDS

①

C.P.

②

—

③

5/16

④

—

⑤

—

⑥

C.P.

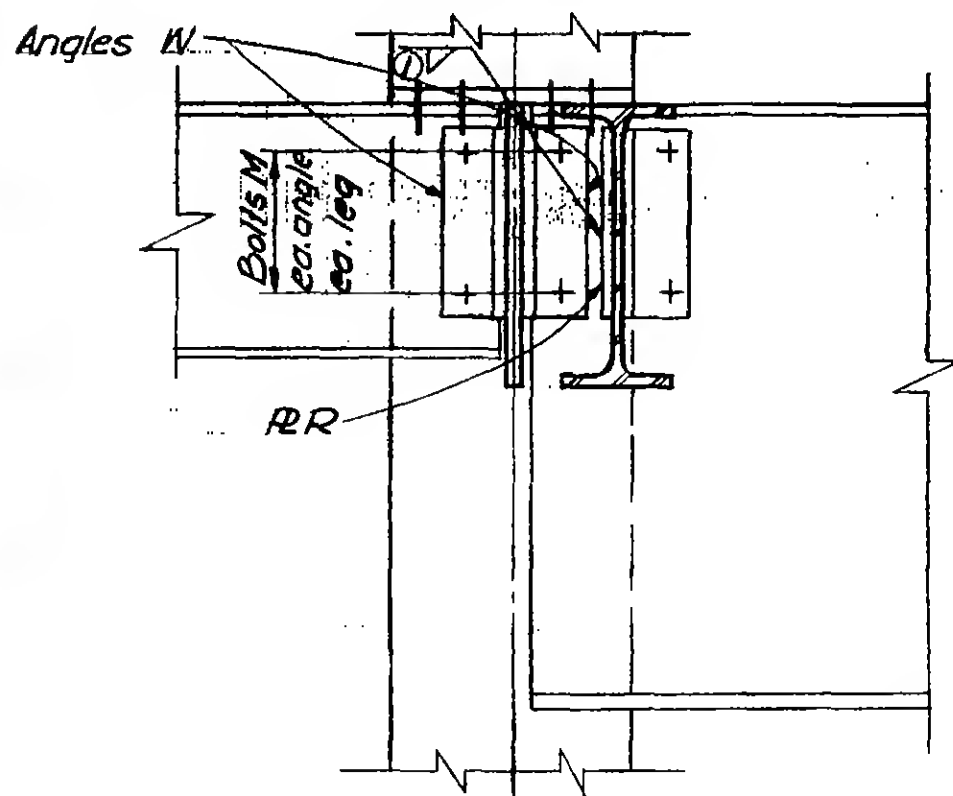
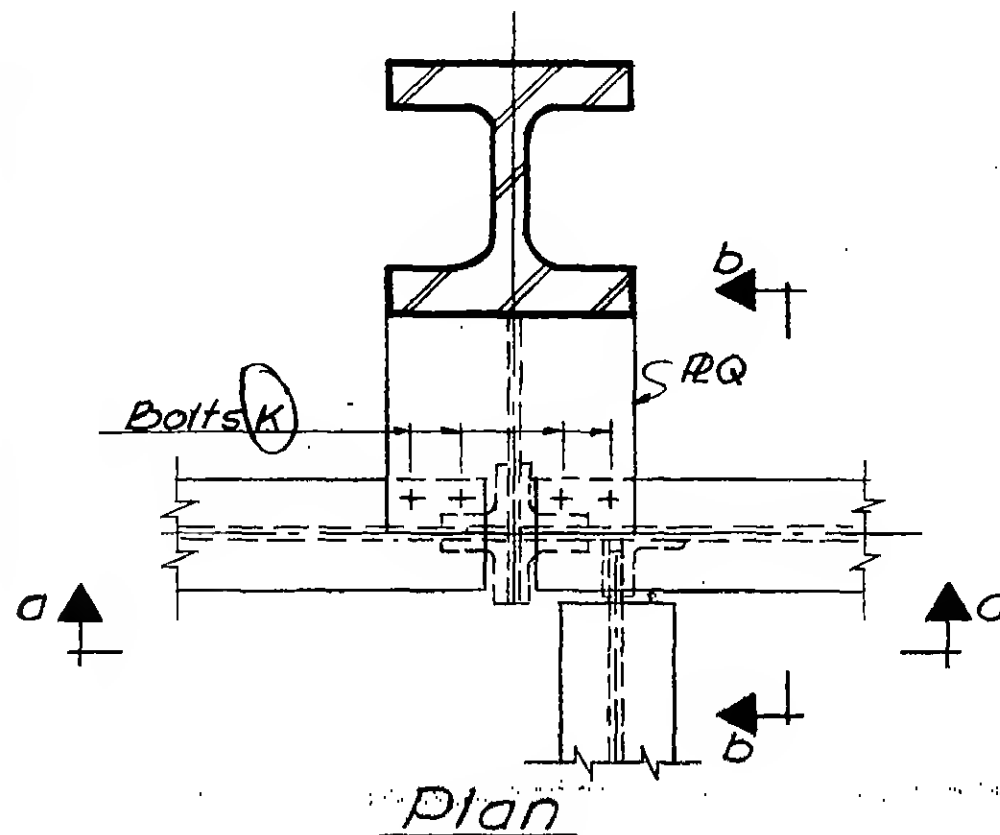


6-ABI-90.11

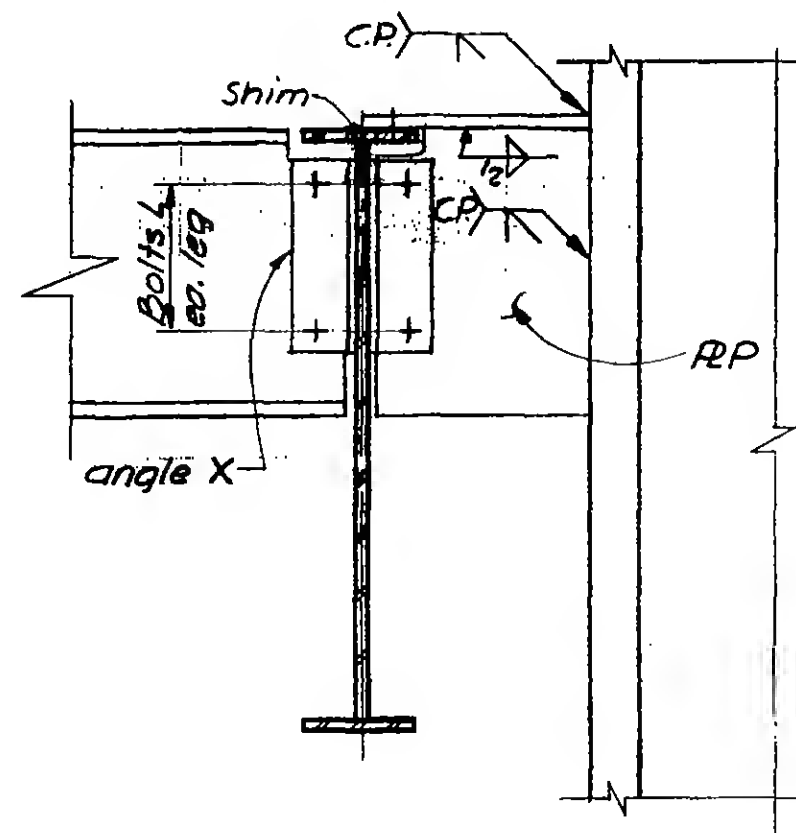
REVISIONS

9-15-67

11-10-67



Section a-a



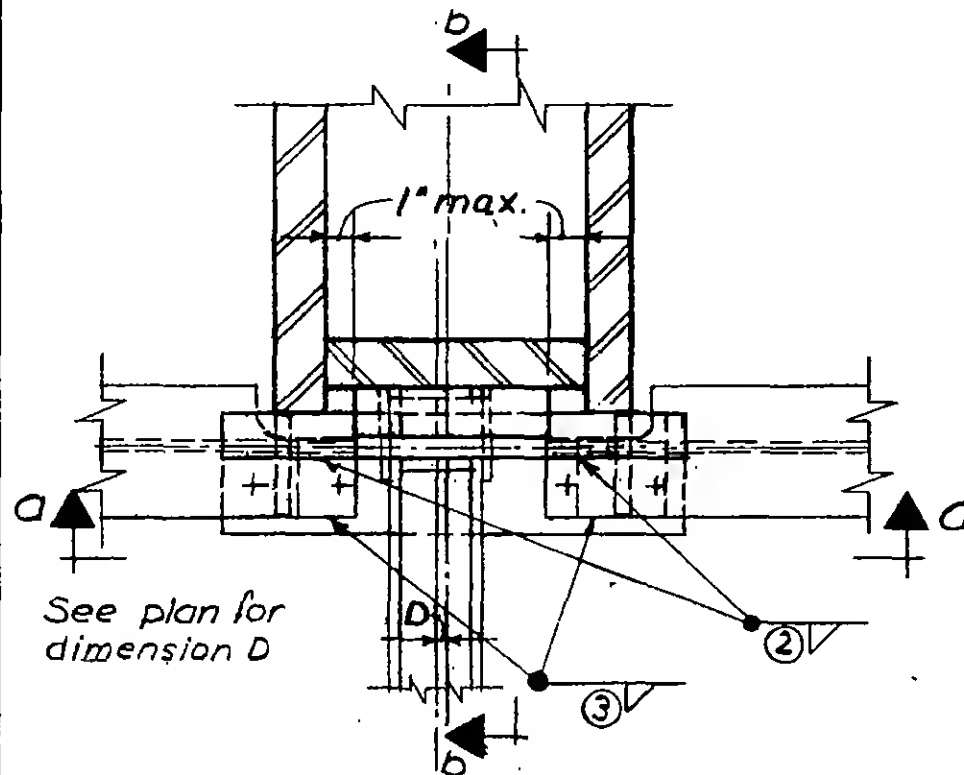
Section b-b



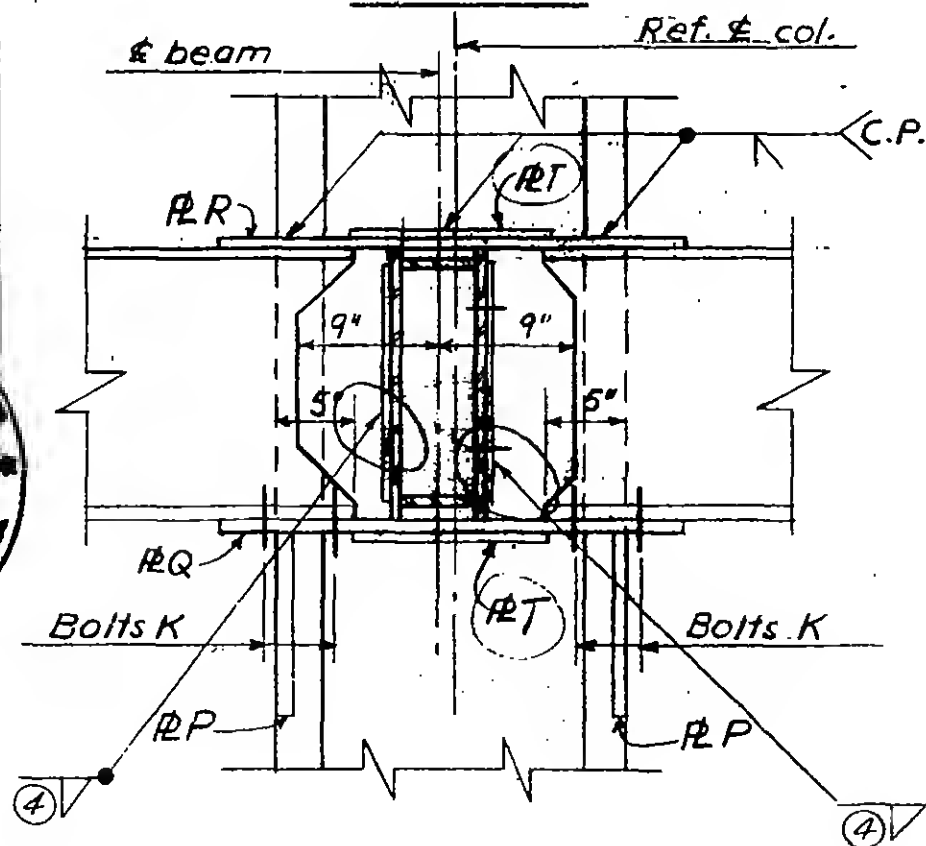
REVISIONS

9-15-67

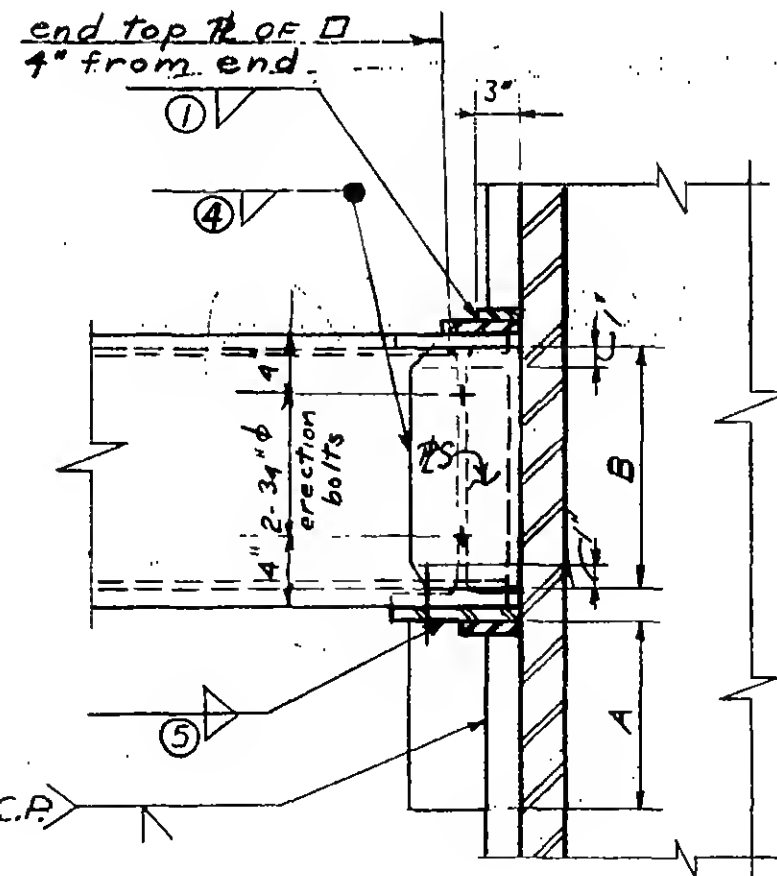
11-14-67



Plan



Section a-a



Section b-b



Structural & Civil Engineers

PROJECT *THE WORLD TRADE CENTER*

TITLE SCHEDULE FOR DETAIL 285 A.

DATE 9-15-67

REVISIONS

11-14-67

12-21-67

[illegible]

6-AB1-92.1

WORTHINGTON, SKILLING, HELLE & JACKSON

Civil & Structural Engineers

PROJECT THE WORLD TRADE CENTER

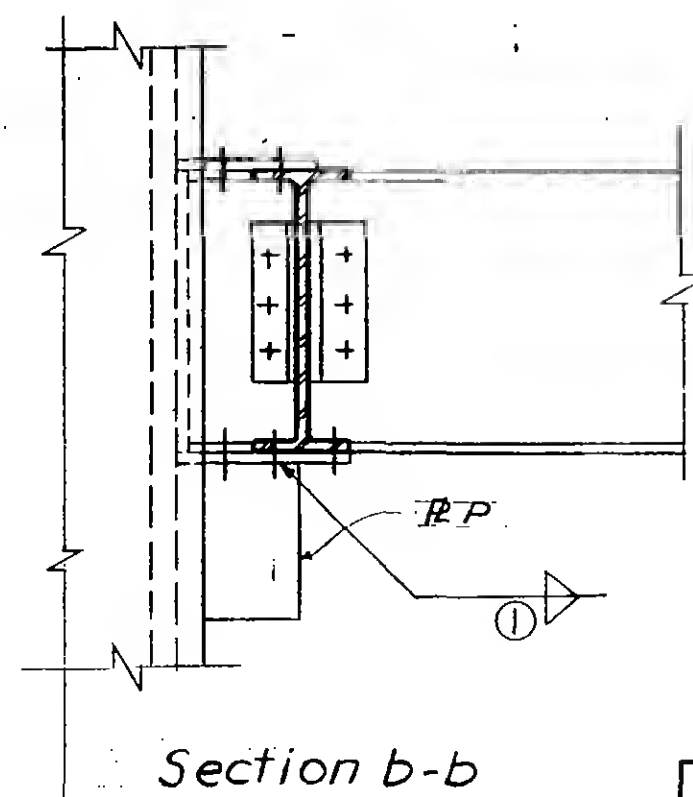
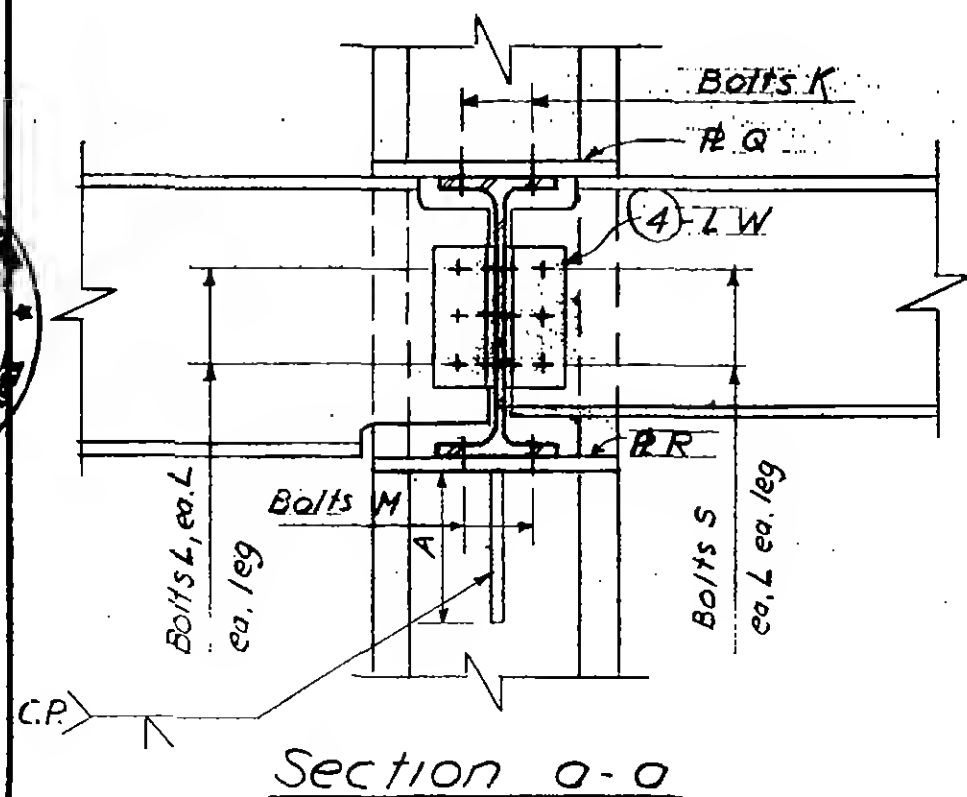
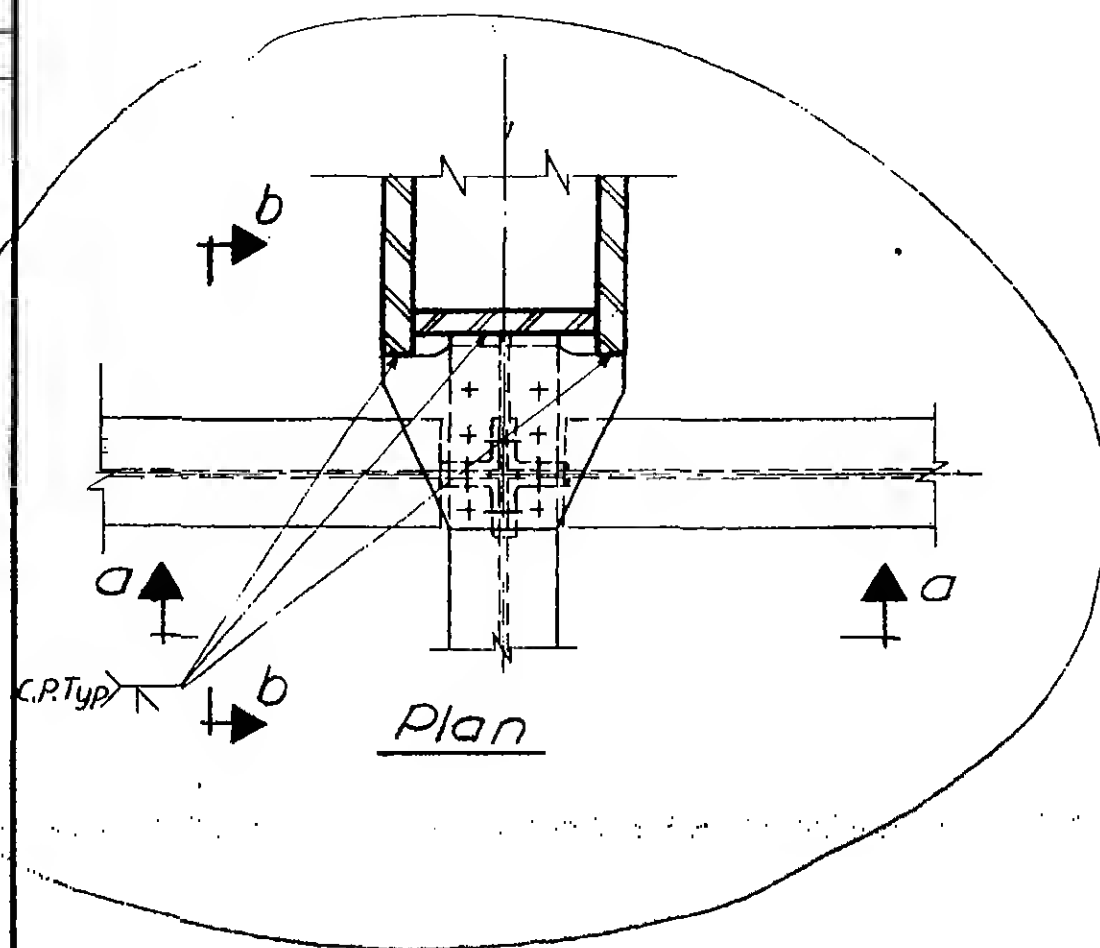
TITLE CONNECTION DETAIL 286 A

DATE 5-22-67

REVISIONS

1-15-67

11-10-67



6-ABI-93



Structural & Civil Engineers

DATE 9-15-67

11-10-67

286B

 $10 \times 1''$

34

78ⁿ

$$4 \times 4 \times 5_{160}$$

6 - 78" ϕ

2 - 78" ϕ

6.34" ϕ

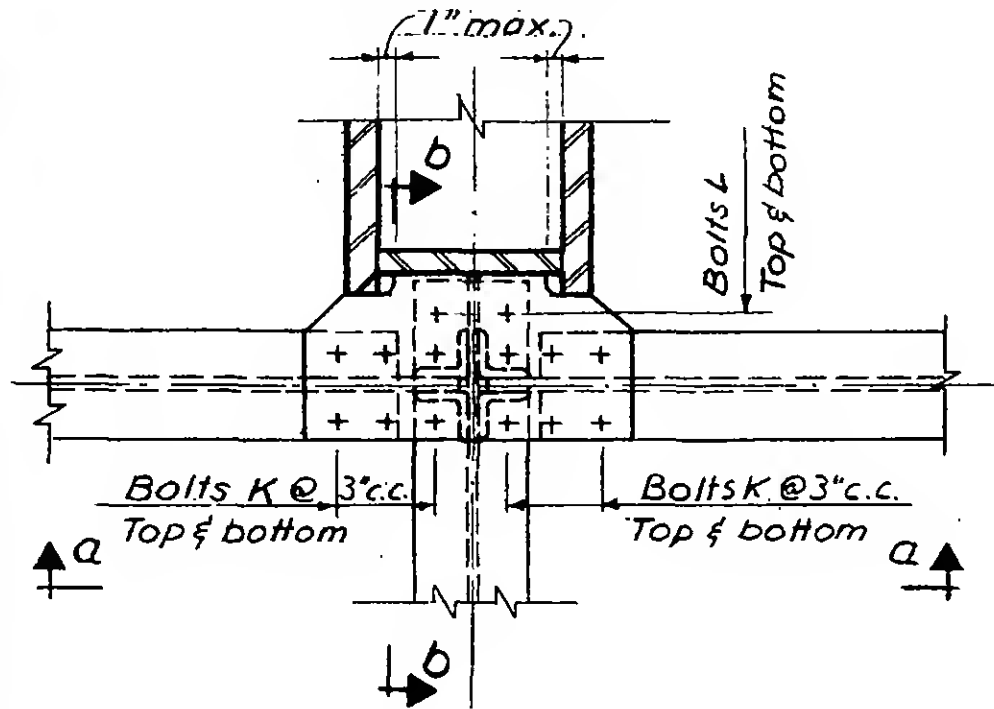
1' 2"

516

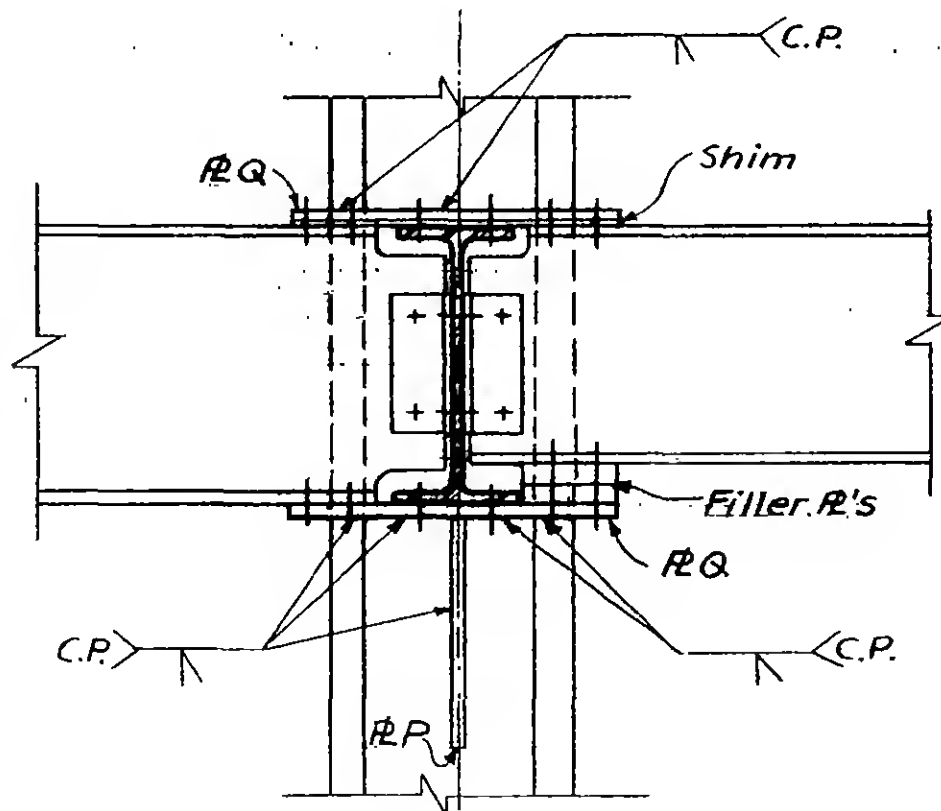


REVISIONS

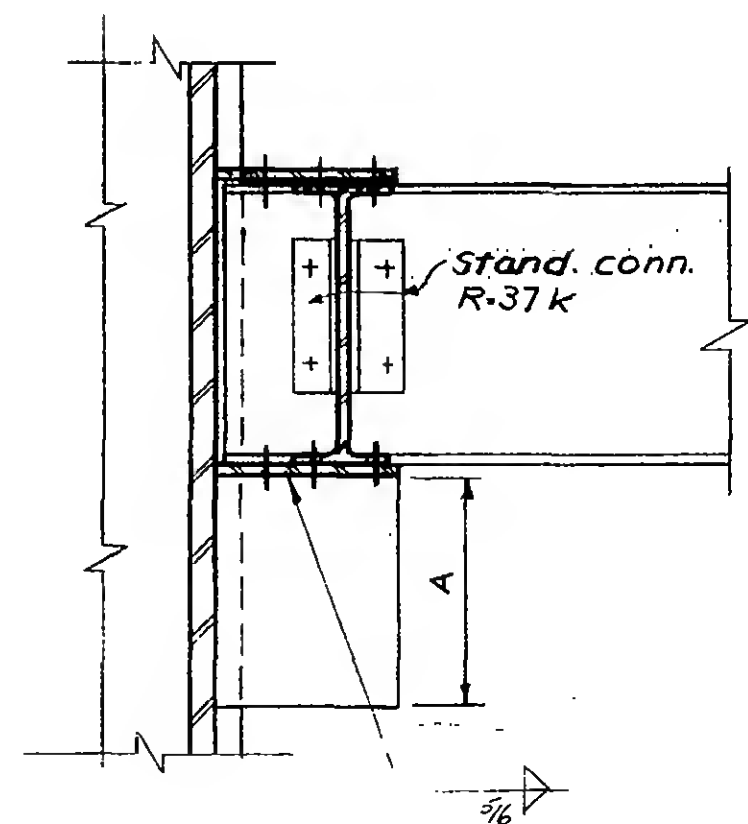
12-21-67



Plan



Section a-a



Section b-b



PROJECT

THE WORLD TRADE CENTER

TITLE

CONNECTION DETAIL 287 A&B

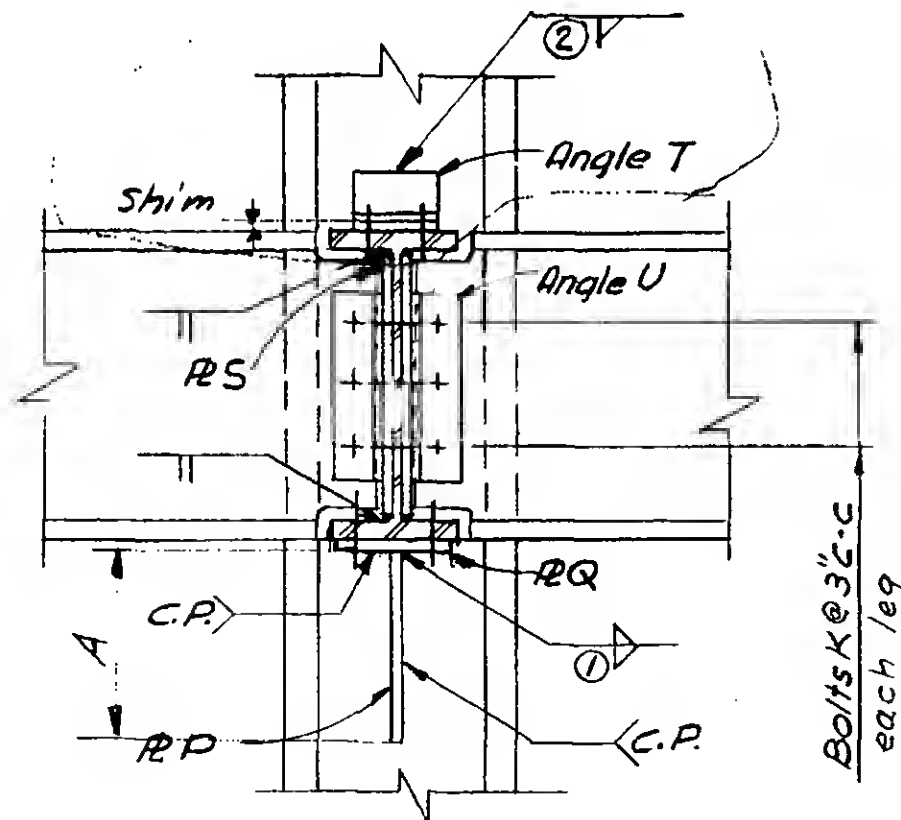
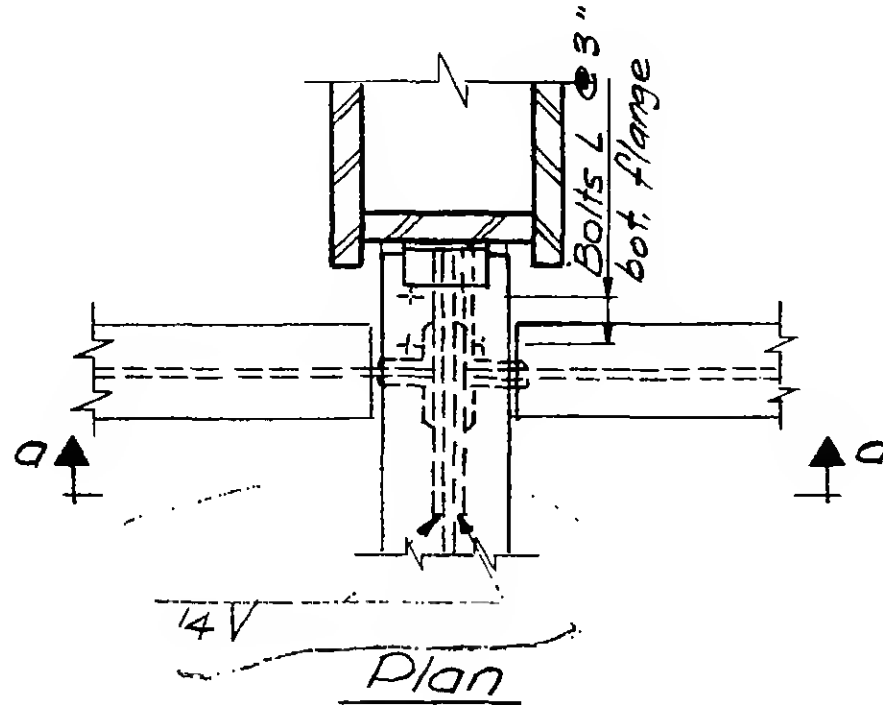
DATE

5-9-67

REVISIONS

6-30-67

7-28-67



Section a-a



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PROJECT THE WORLD TRADE CENTER

TITLE SCHEDULE FOR DETAIL 287 A, B

DATE 6-30-67

REVISIONS

7-28-67

	287 A	287 B				
PLATES						
P	7 1/2" x 15 1/16"	7" x 11 1/16"				
Q	7 1/2" x 15 1/16"	8" x 34"				
S	2 # 1/4 x 1'-9"	2 # 3/16 x 1'-6"				
ANGLES						
T	4 x 4 x 1/4 x 0'-8"	4 x 4 x 1/4 x 0'-6"				
U	4L-4 x 3 1/2 x 7/16 x 0'-8 1/2"	4L-4 x 3 1/2 x 7/16 x 0'-8 1/2"				
DIMENSIONS						
A	1'-3"	1'-3"				
BOLTS						
K	3-1" # (A325)	3-1" # (A325)				
L	4-3/4" # (A325)	4-3/4" # (A325)				
WELDS						
①	5/16	5/16				
②	1/4	1/4				



6-AB1-94.1

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PROJECT THE WORLD TRADE CENTER

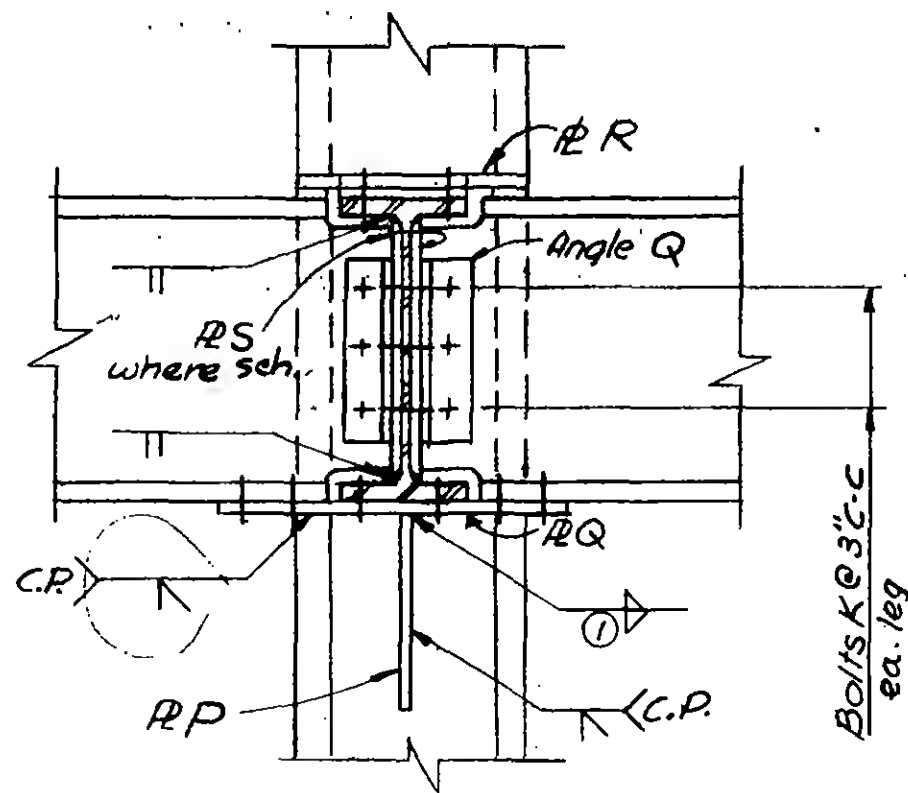
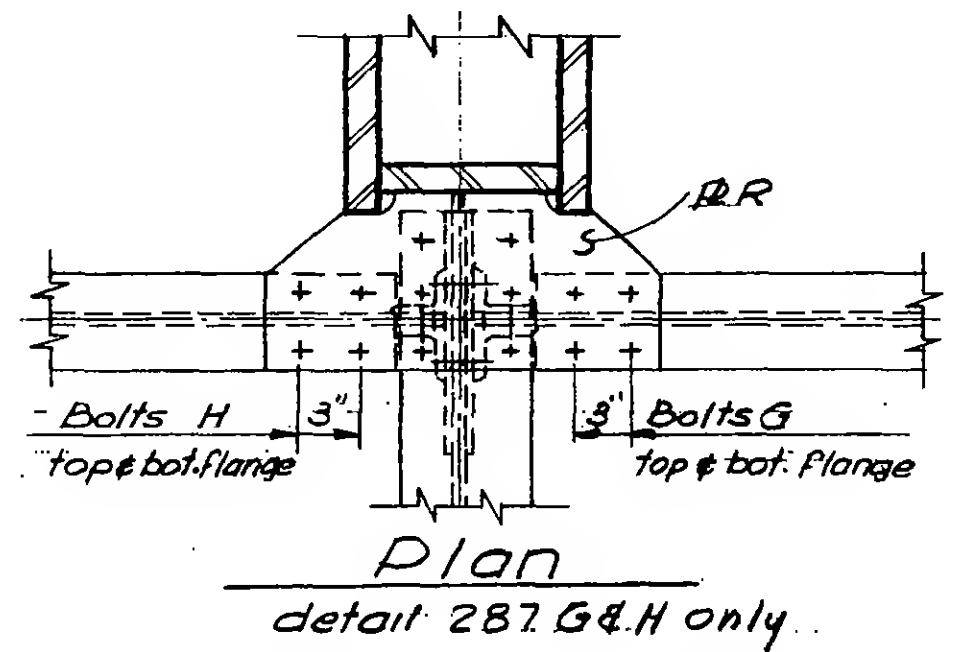
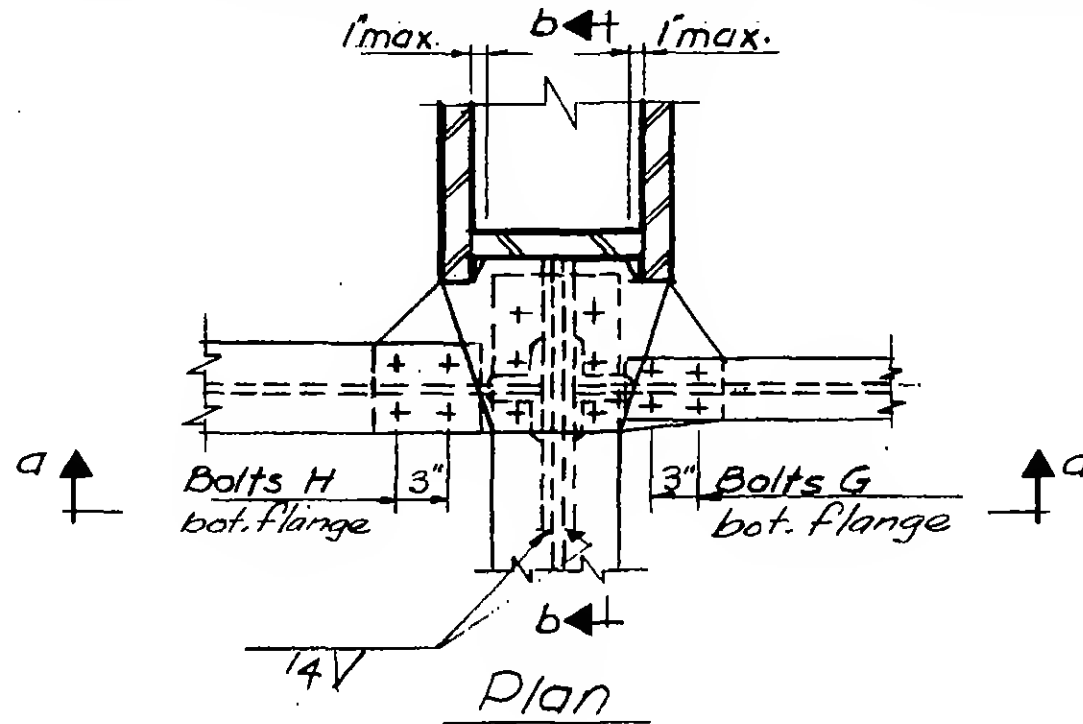
TITLE CONNECTION DETAIL 287 C, D, E, F, G, H

DATE 6-30-67

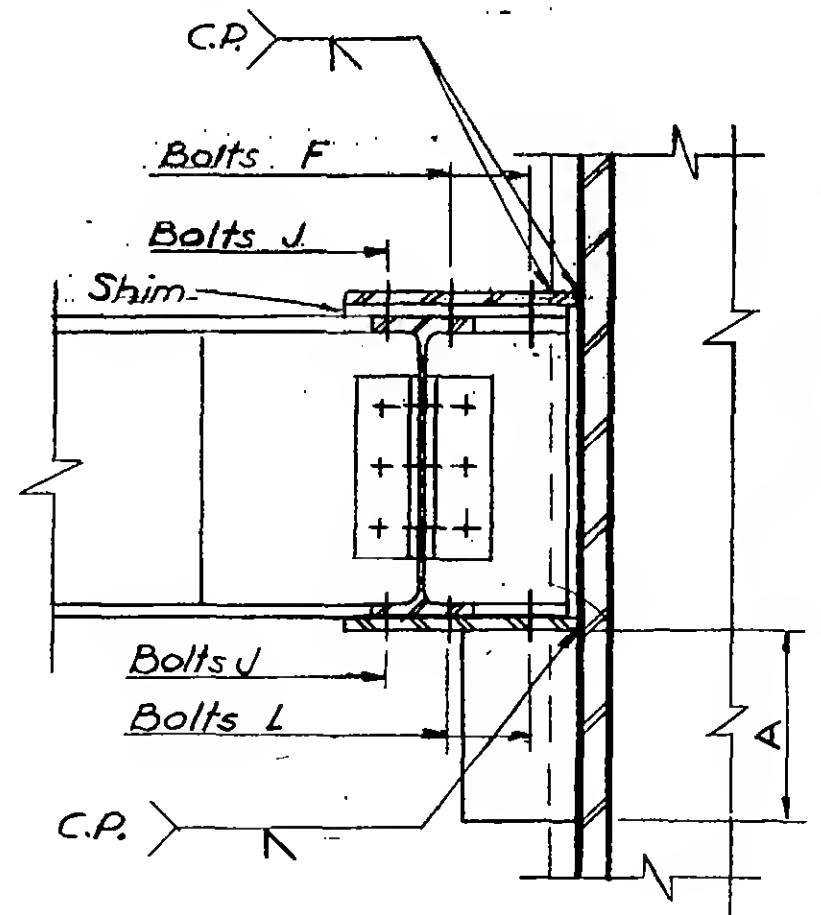
REVISIONS

7-28-67

8-5-67

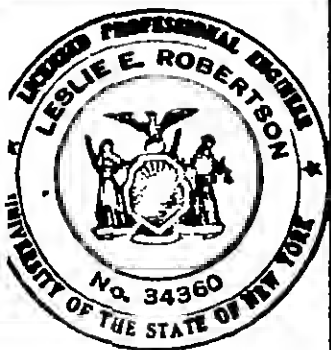


Section a-a



Section b-b

6-AB1-94.2



PROJECT

THE WORLD TRADE CENTER

TITLE

SCHEDULE FOR DETAIL 287 C, D, E, F, G, H

DATE

6-30-67

REVISIONS

7-28-67

8-5-67

1-24-68

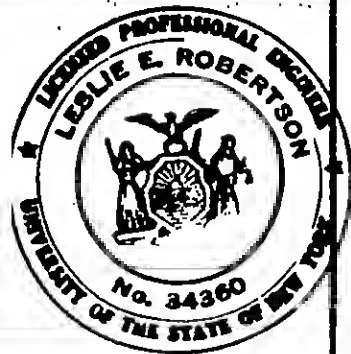
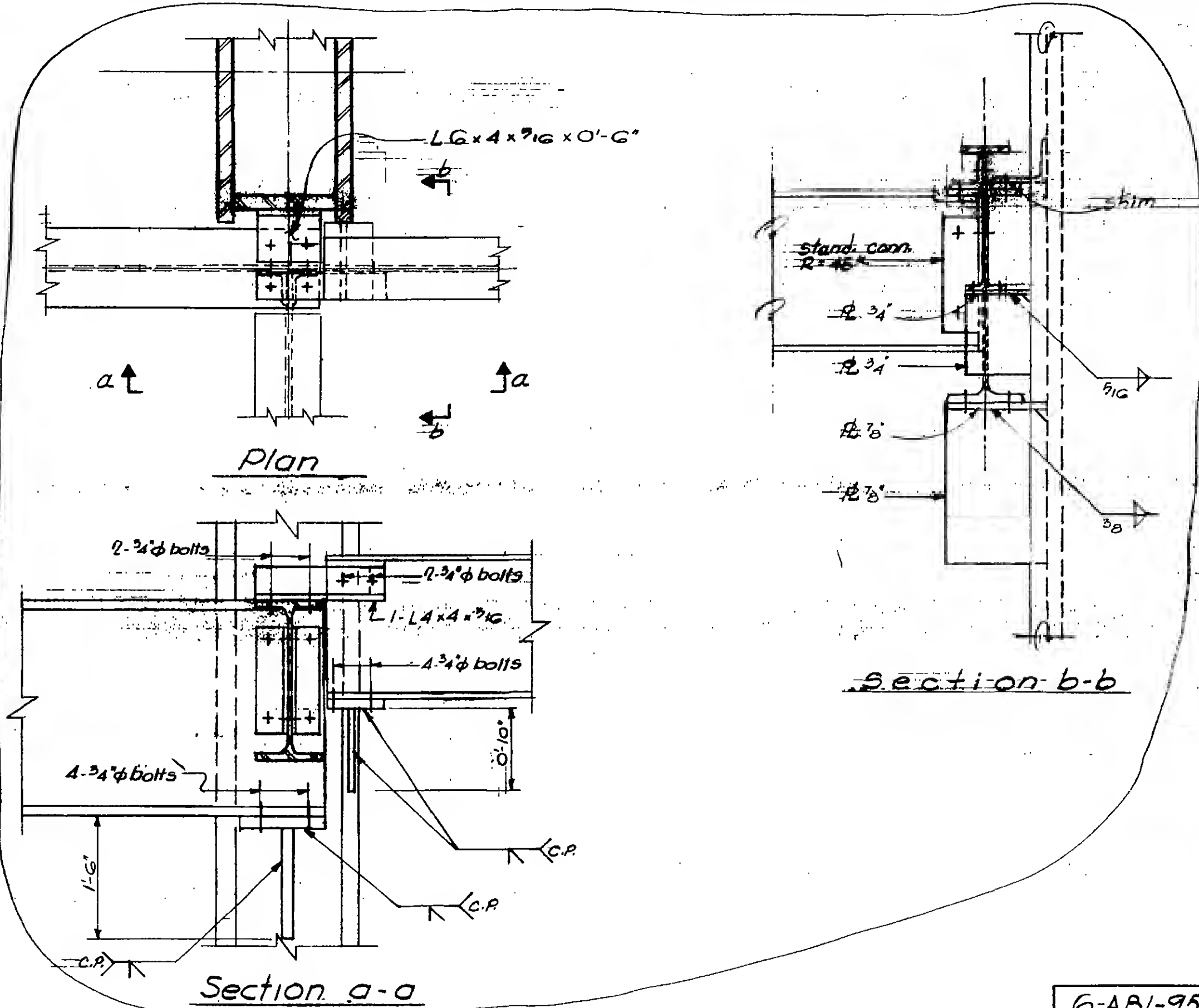
	287 C	287 D	287 E	287 F	287 G	287 H
PLATES						
P	8" x 78"	7" x 12"	6" x 58"	6" x 34"	6" x 34"	8" x 78"
Q	78"	12"	58"	34"	34"	78"
R	58"	12"	58"	34"	34"	34"
S	2 PL - 3/16" x 1'-6"	—	—	—	—	—
ANGLES						
Q	4L - 4 x 3 1/2 x 7/16 x 0'-8 1/2"	4L - 4 x 3 1/2 x 5/16 x 0'-8 1/2"	4 x 3 1/2 x 5/16	4 x 3 1/2 x 5/16	4 x 3 1/2 x 5/16	4 x 3 1/2 x 5/16
DIMENSIONS						
A	1'-3"	1'-3"	1'-0"	1'-4"	1'-2"	1'-2"
BOLTS						
F	4 - 1/8" ϕ (A325) @ 3"	6 - 1/8" ϕ (A325) @ 3"	4 - 3/4" ϕ	4 - 1" ϕ	4 - 3/4" ϕ	4 - 3/4" ϕ
G	4 - 3/4" ϕ (A325)	4 - 3/4" ϕ (A325)	4 - 3/4" ϕ	4 - 7/8" ϕ	4 - 1/8" ϕ	4 - 3/4" ϕ
H	4 - 3/4" ϕ (A325)	4 - 3/4" ϕ (A325)	4 - 3/4" ϕ	4 - 7/8" ϕ	4 - 1/8" ϕ	4 - 3/4" ϕ
J	2 - 1/8" ϕ (A325)	—	2 - 3/4" ϕ	2 - 1" ϕ	2 - 3/4" ϕ	2 - 3/4" ϕ
K	3 - 1" ϕ (A325)	3 - 3/4" ϕ (A325)	3 - 3/4" ϕ	3 - 3/4" ϕ	3 - 1" ϕ	3 - 1" ϕ
L	4 - 1/8" ϕ (A325) @ 3"	6 - 1/8" ϕ (A325) @ 3"	4 - 3/4" ϕ	4 - 1" ϕ	4 - 3/4" ϕ	4 - 3/4" ϕ
WELDS						
①	5/16	5/16	5/16	3/8	3/8	3/8

6-AB1-94.3



REVISIONS

10-2-67



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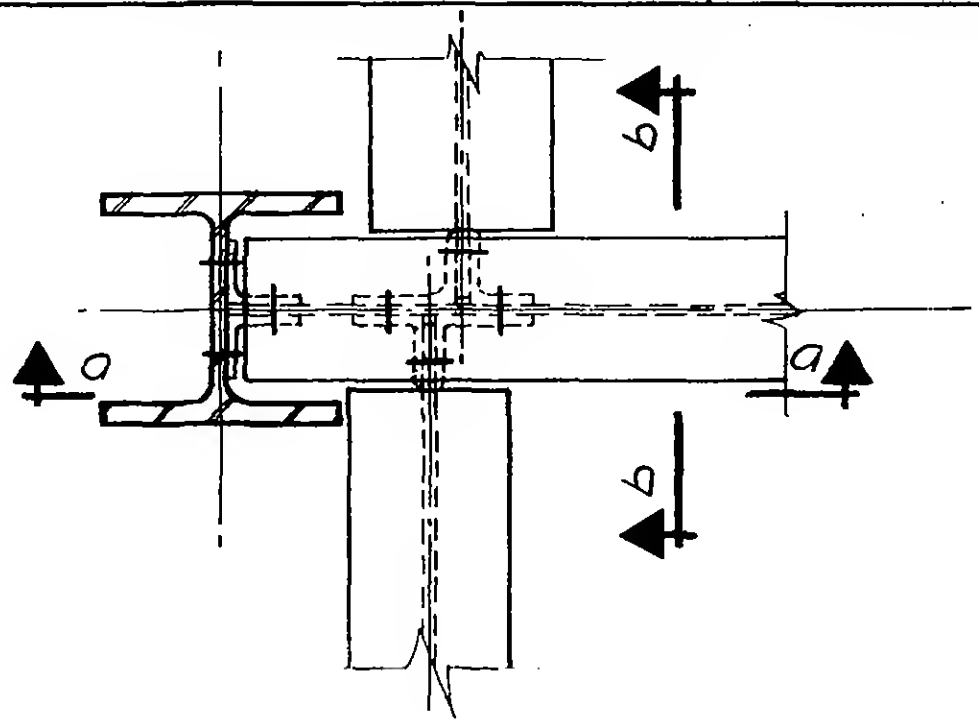
Civil & Structural Engineers

PROJECT WORLD TRADE CENTER

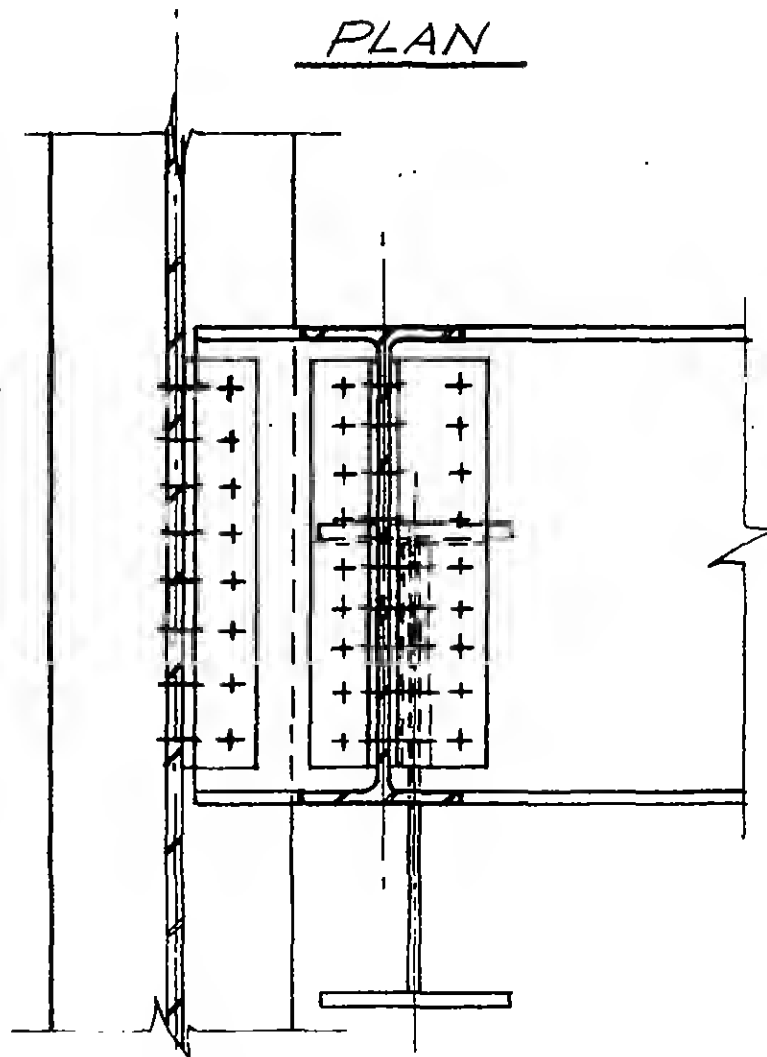
TITLE CONNECTION DETAIL 289

DATE 7/20/67

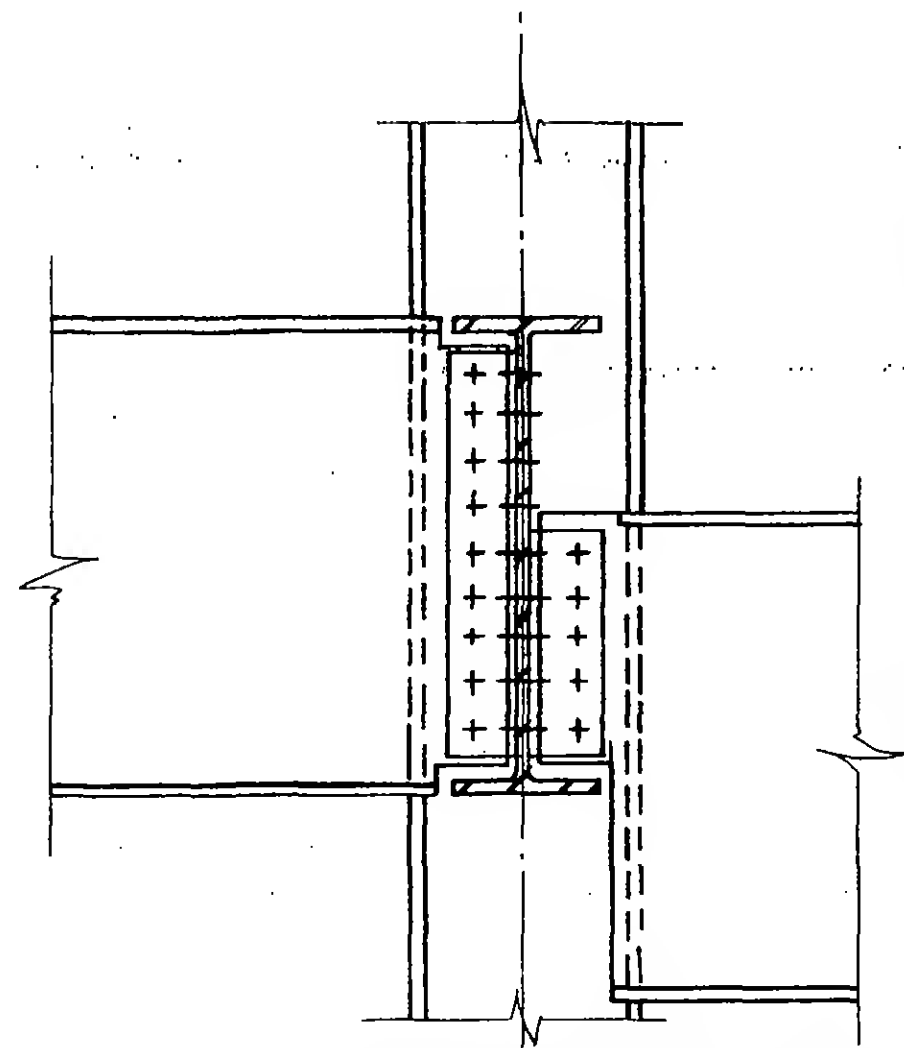
REVISIONS



PLAN



SECTION a-a

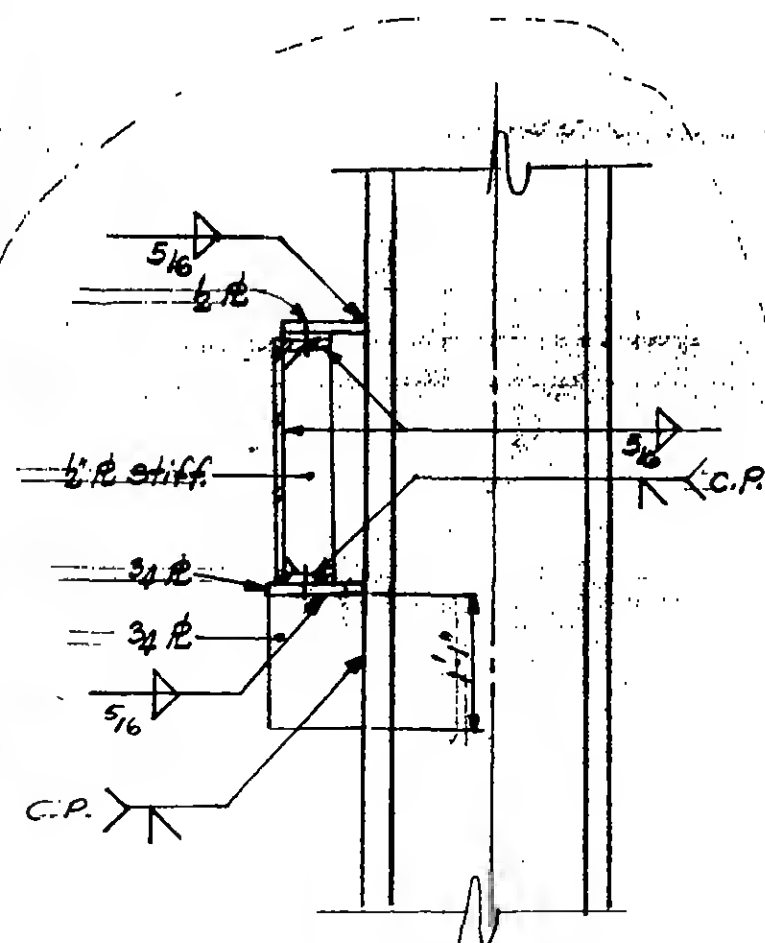
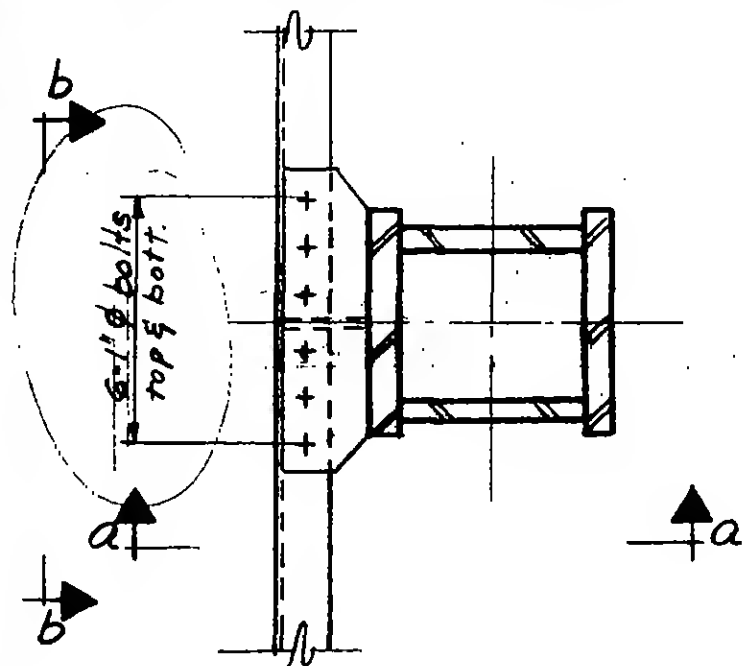


SECTION b-b G-ABI-96

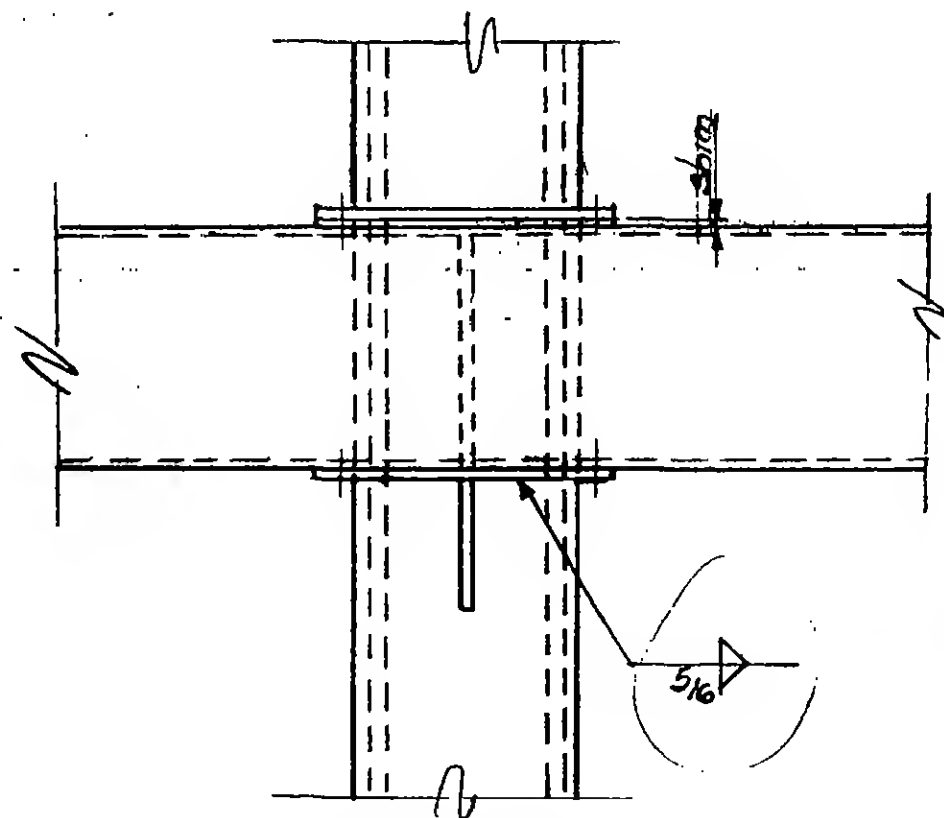


REVISIONS

10-5-67



SECTION a-a

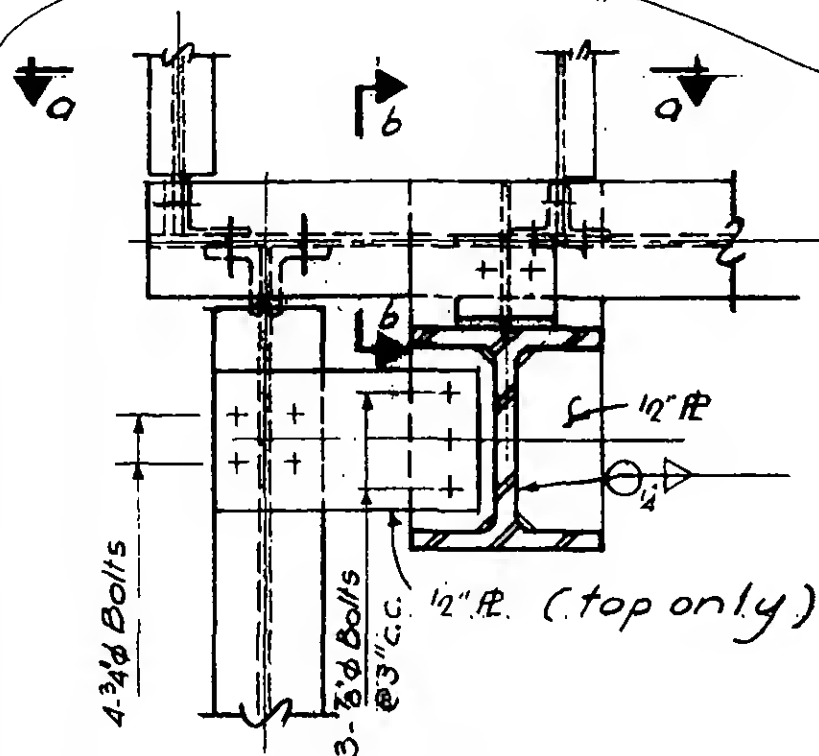


SECTION b-b

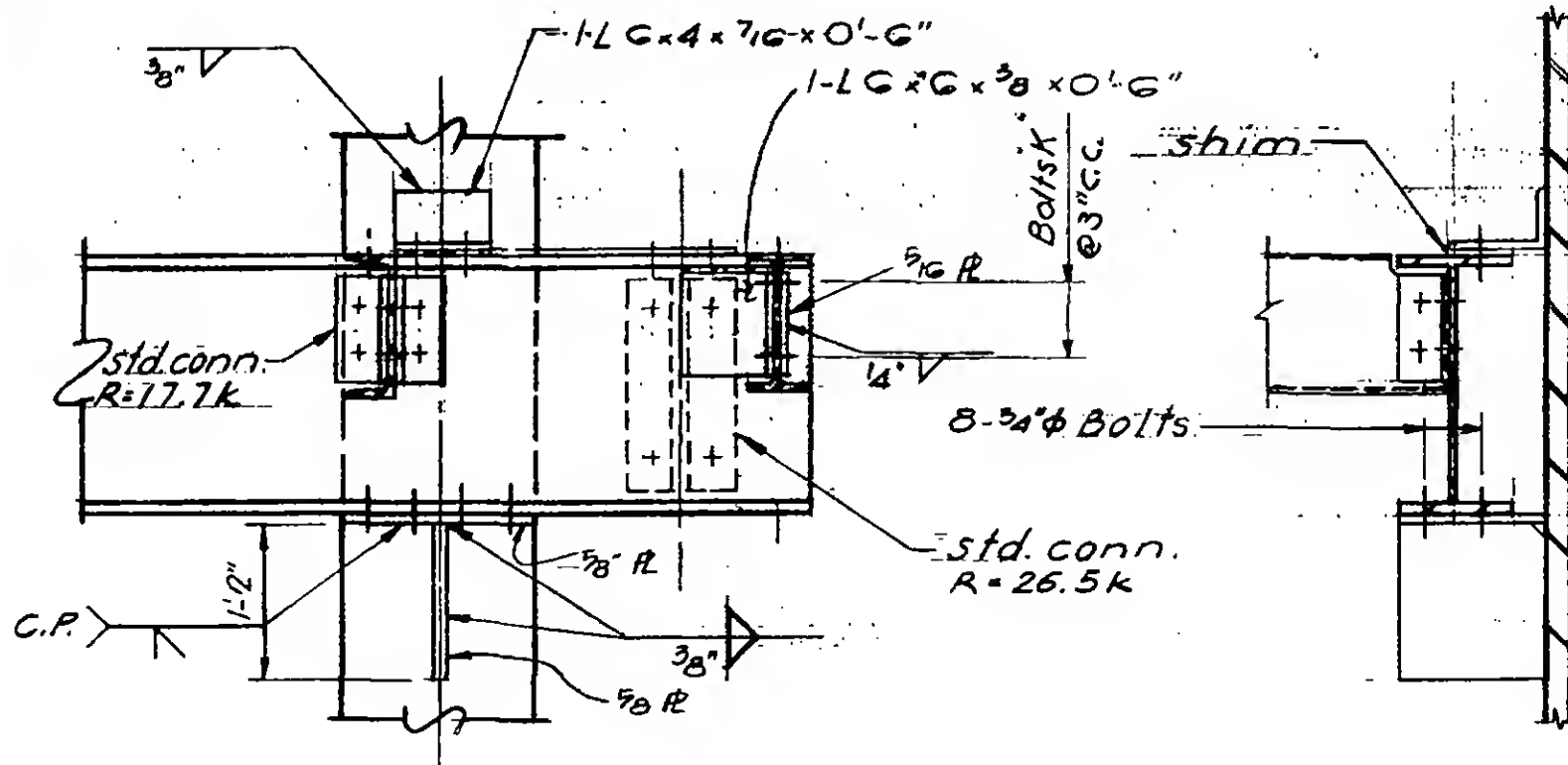


REVISIONS

10-2-67

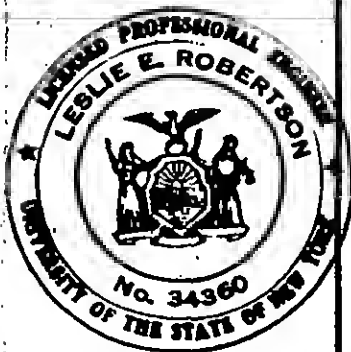


Plan



Section a-a

Section b-b



SKILLING - HELLE - CHRISTIANSEN - ROBERTSON

Structural & Civil Engineers

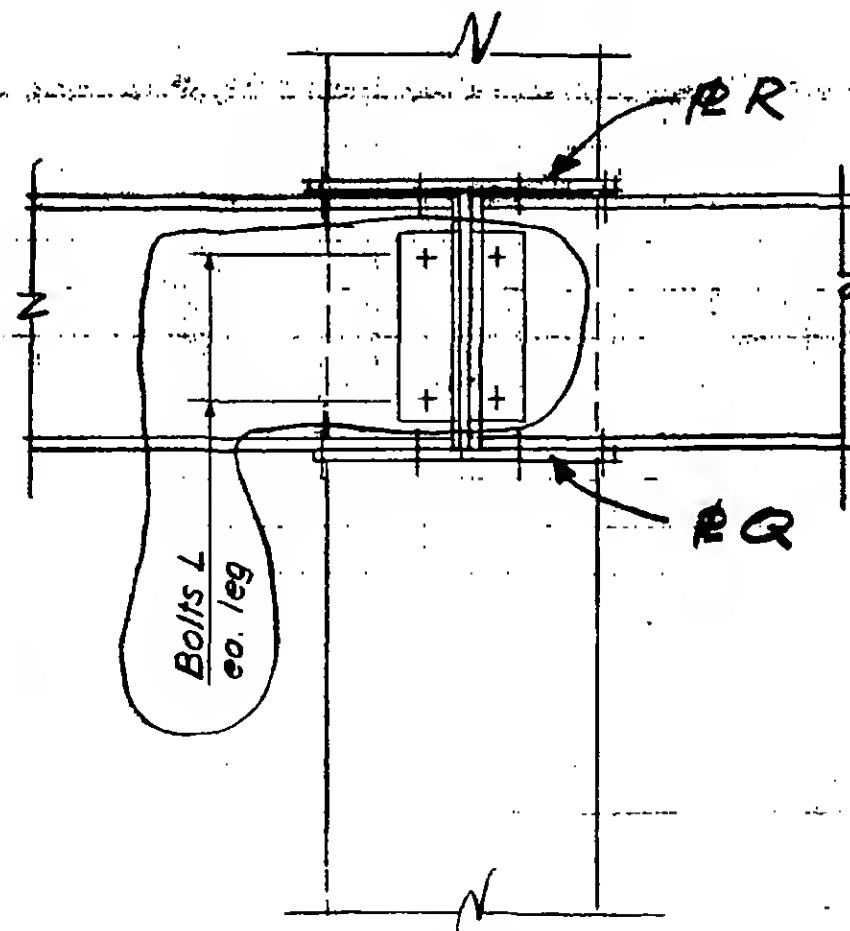
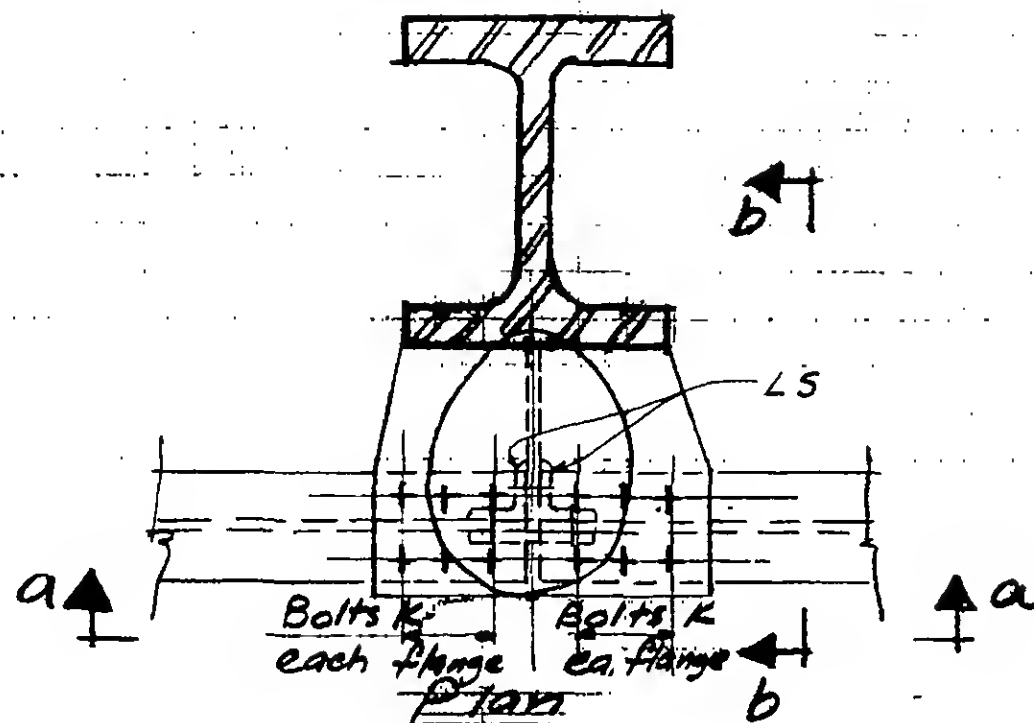
PROJECT THE WORLD TRADE CENTER

TITLE CONNECTION DETAIL 202A

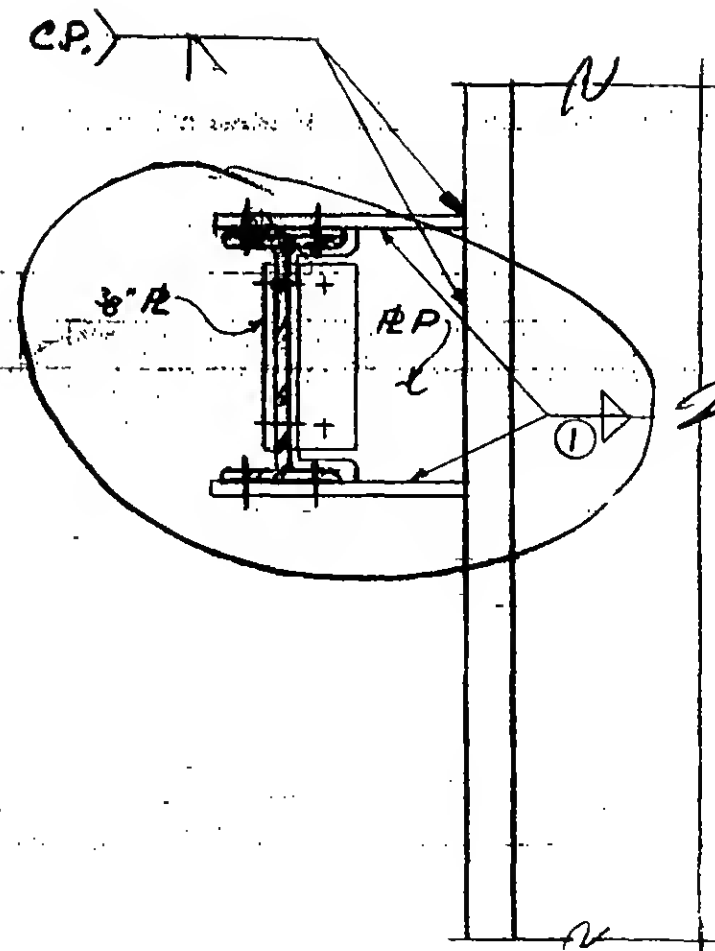
DATE 2-15-67

REVISIONS

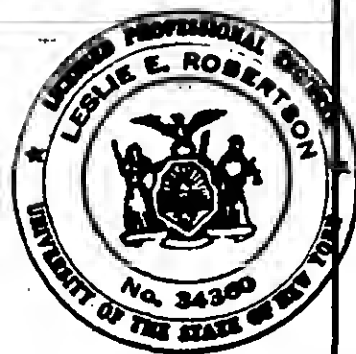
11-10-67



Section a-a



Section b-b



6-ABI-99

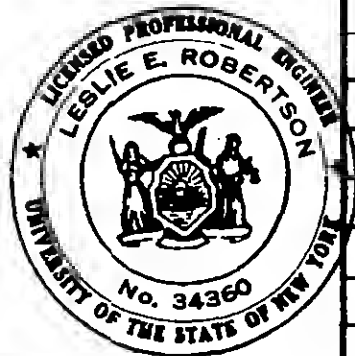
Structural & Civil Engineers

TITLE SCHEDULE FOR DETAIL 292 A

DATE 9-15-67

11-10-67

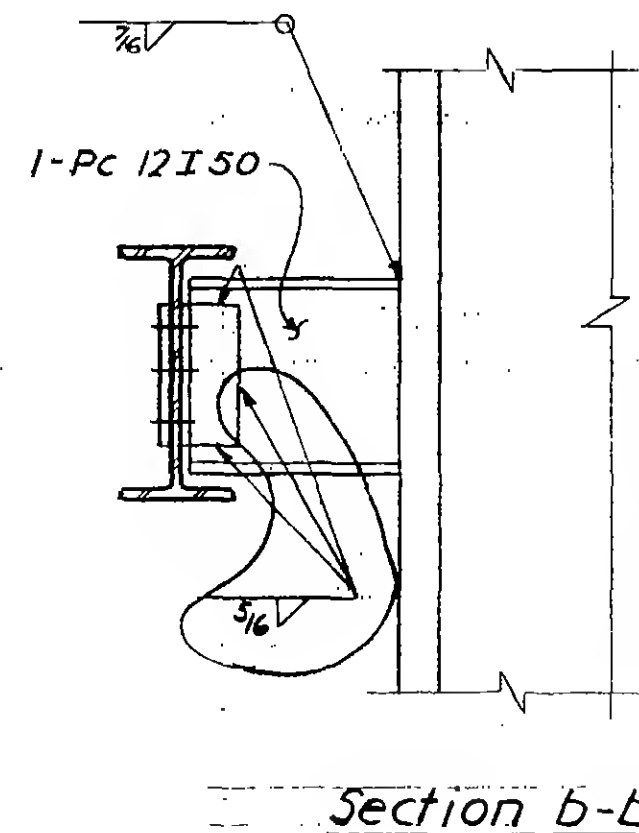
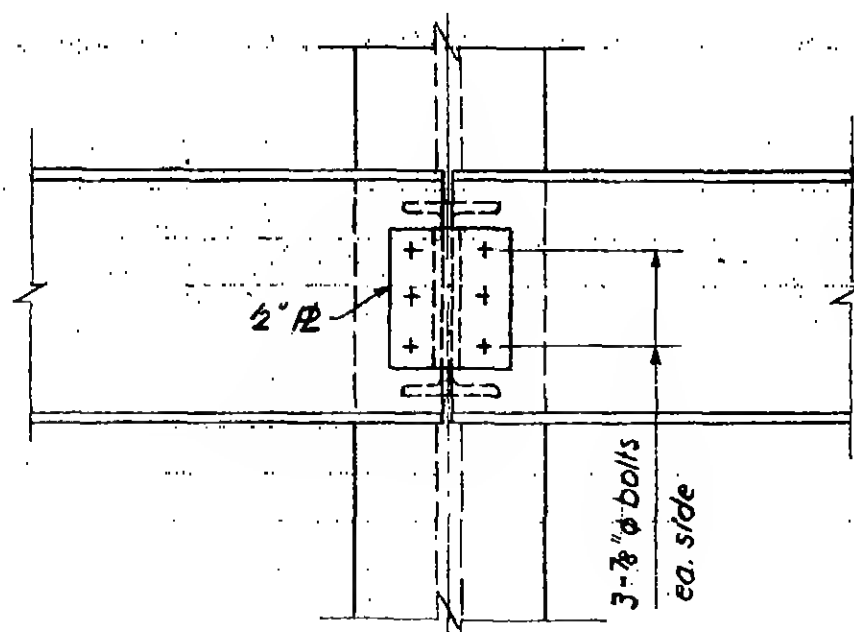
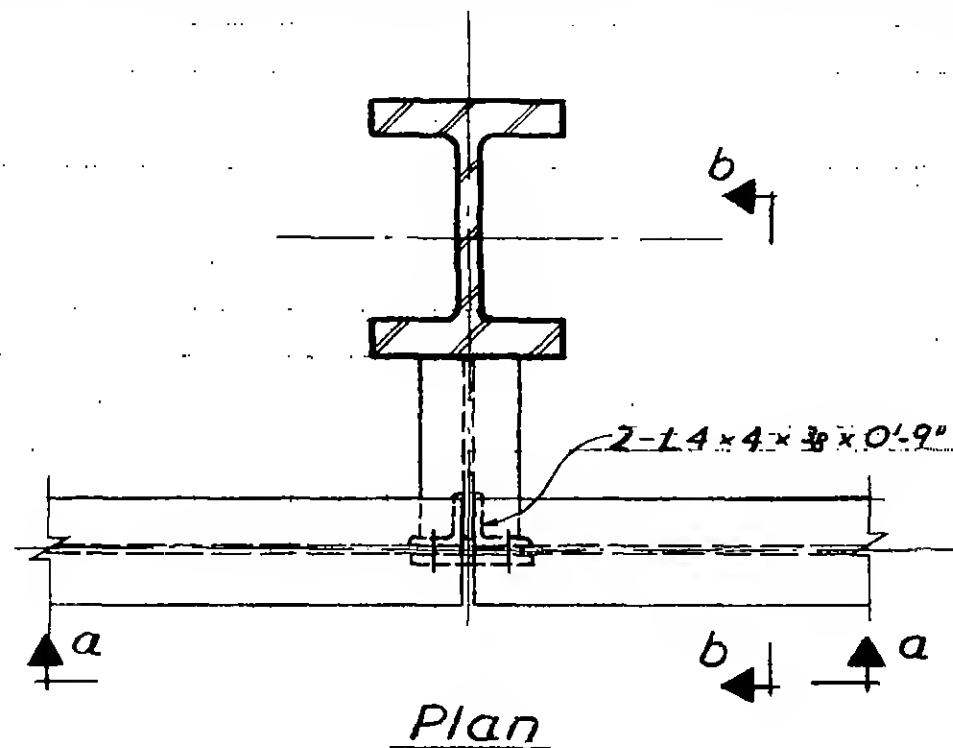
38



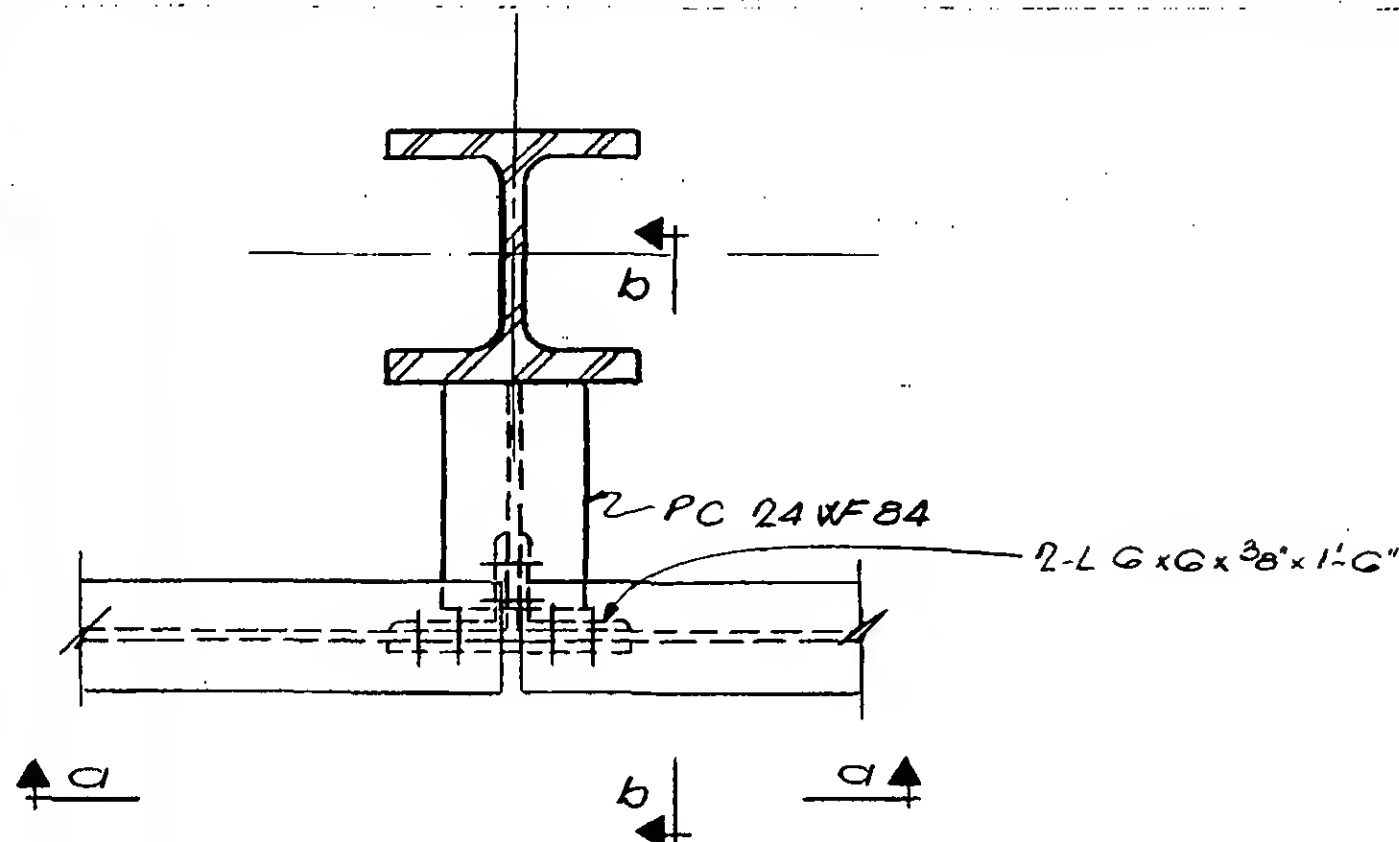
6-AB/-99.1

REVISIONS

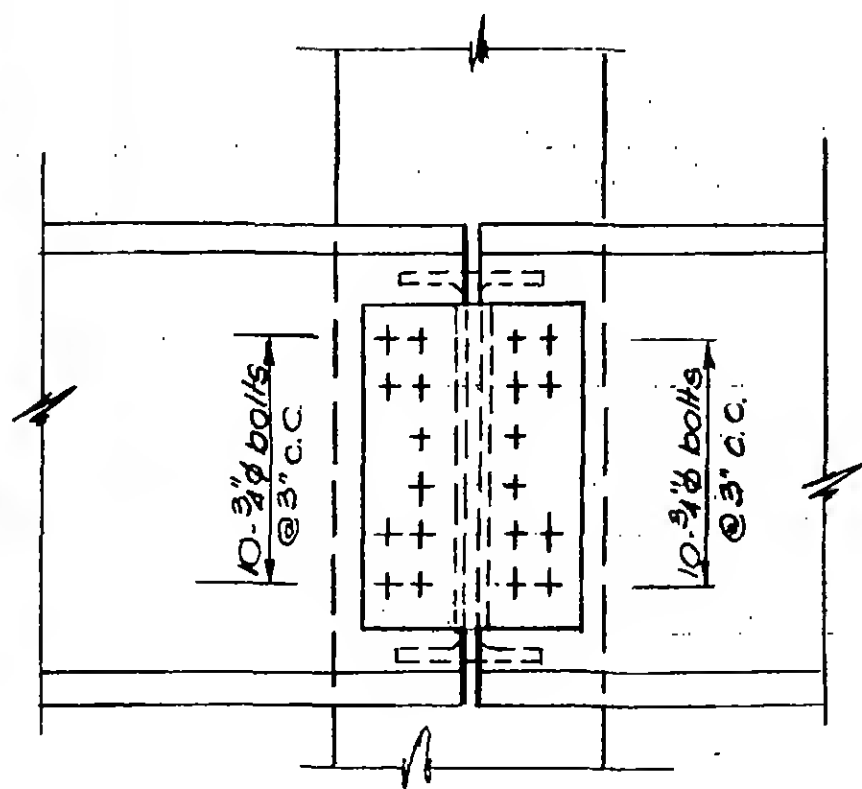
11-17-67



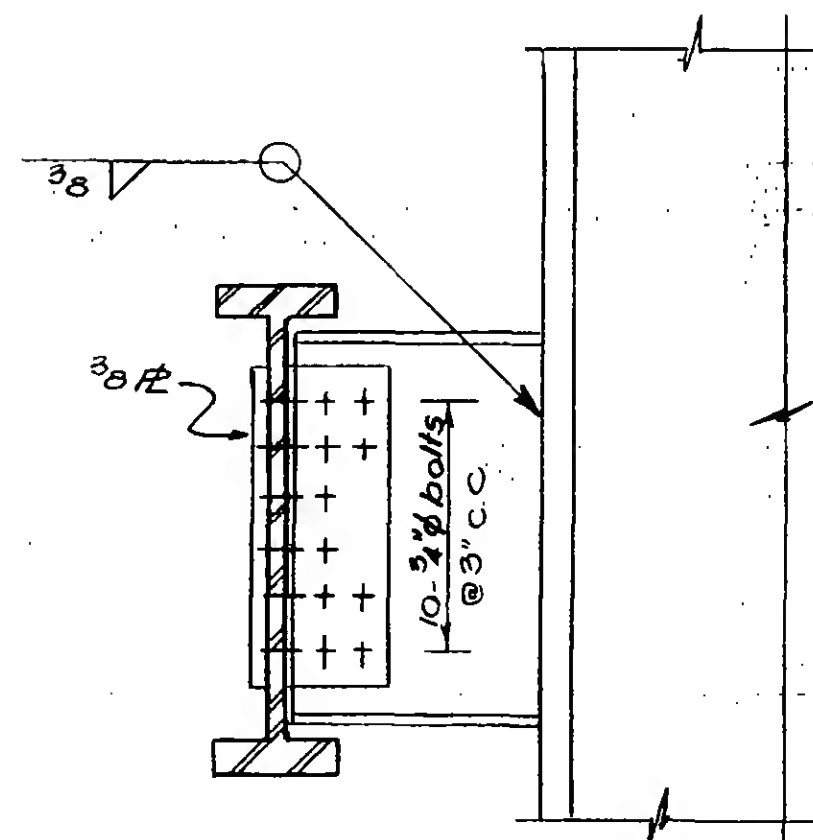
REVISIONS



Plan



Section a-a.

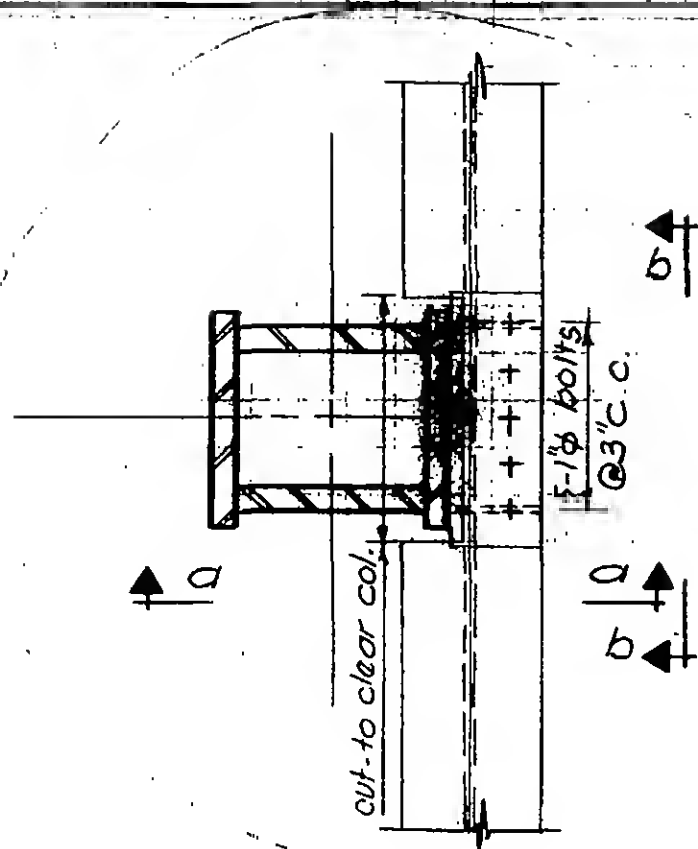


Section b-b

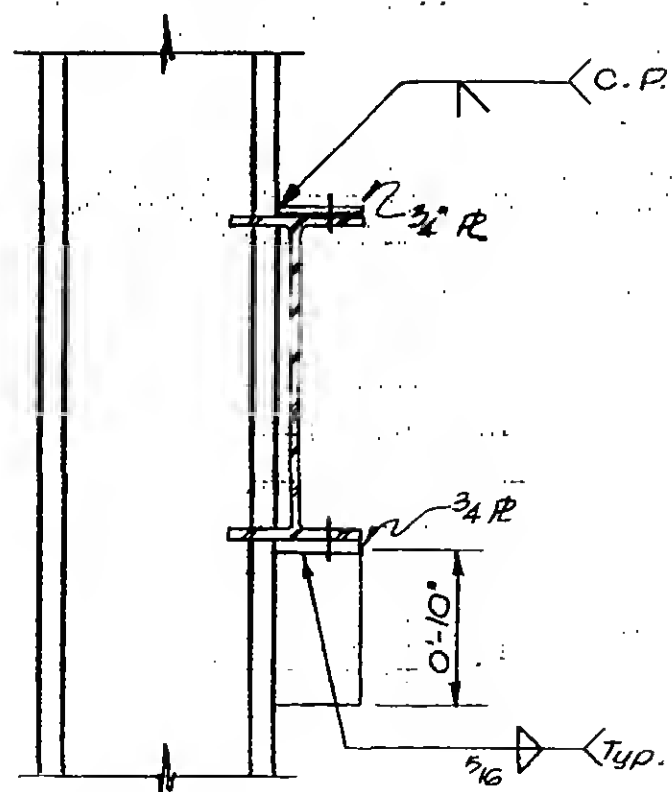


REVISIONS

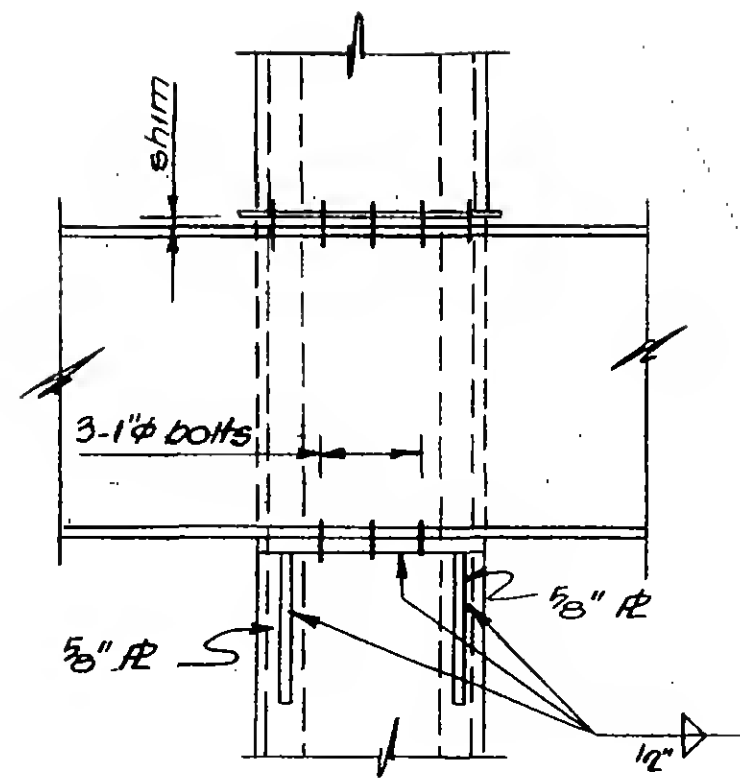
10-5-67



Plan



Section a-a

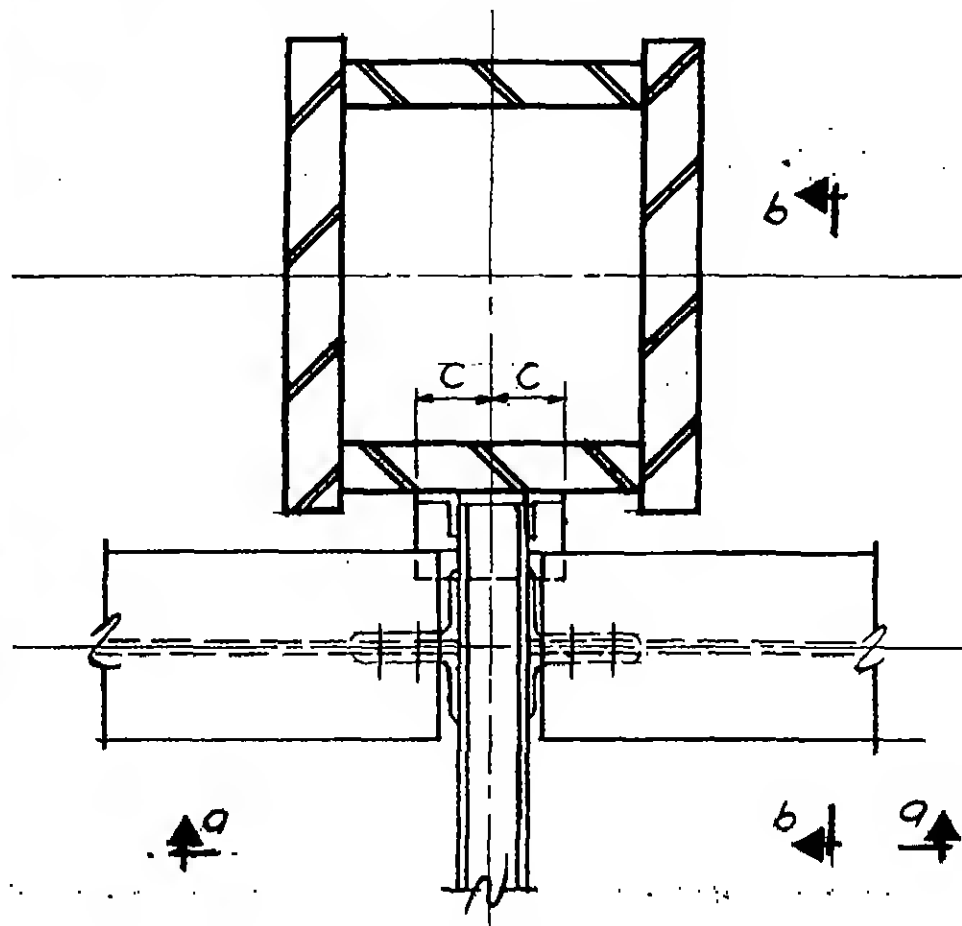


Section b-b

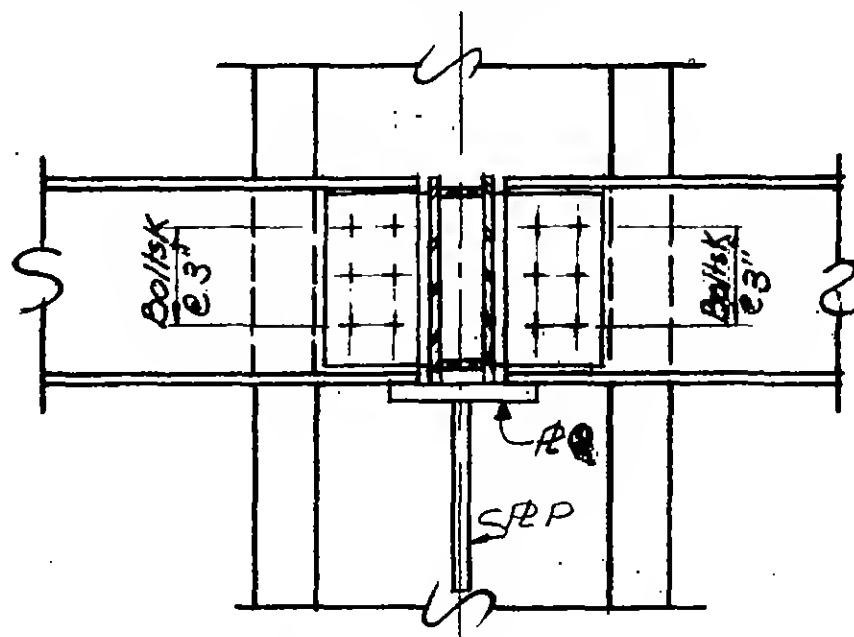


REVISIONS

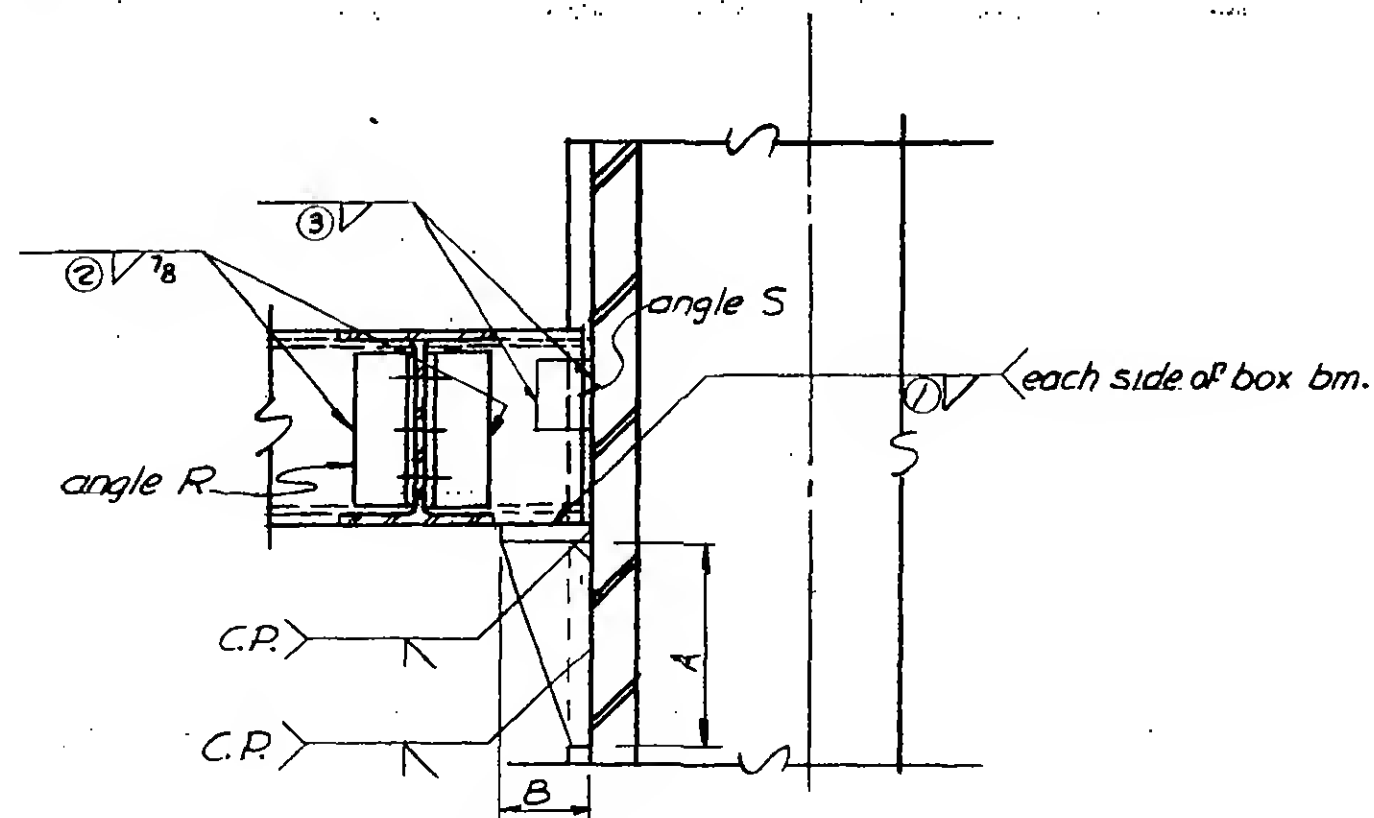
7-28-67



PLAN



Section a-a



Section b-b



WORTHINGTON, SKILLING, HELLE & JACKSON

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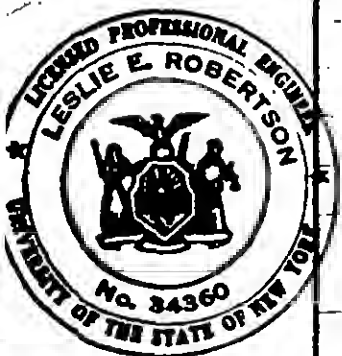
PROJECT THE WORLD TRADE CENTER

TITLE SCHEDULE FOR DETAIL 294 A

DATE 7-28-67

REVISIONS

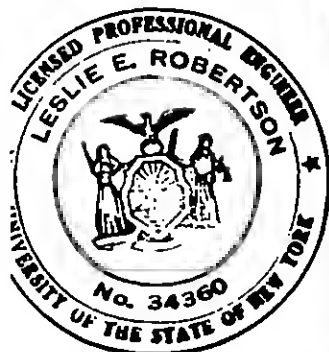
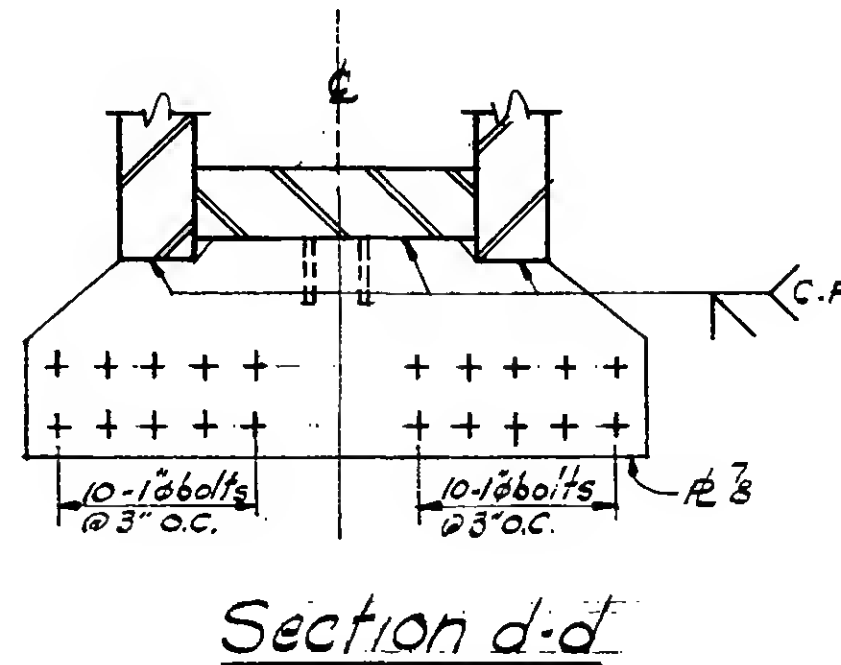
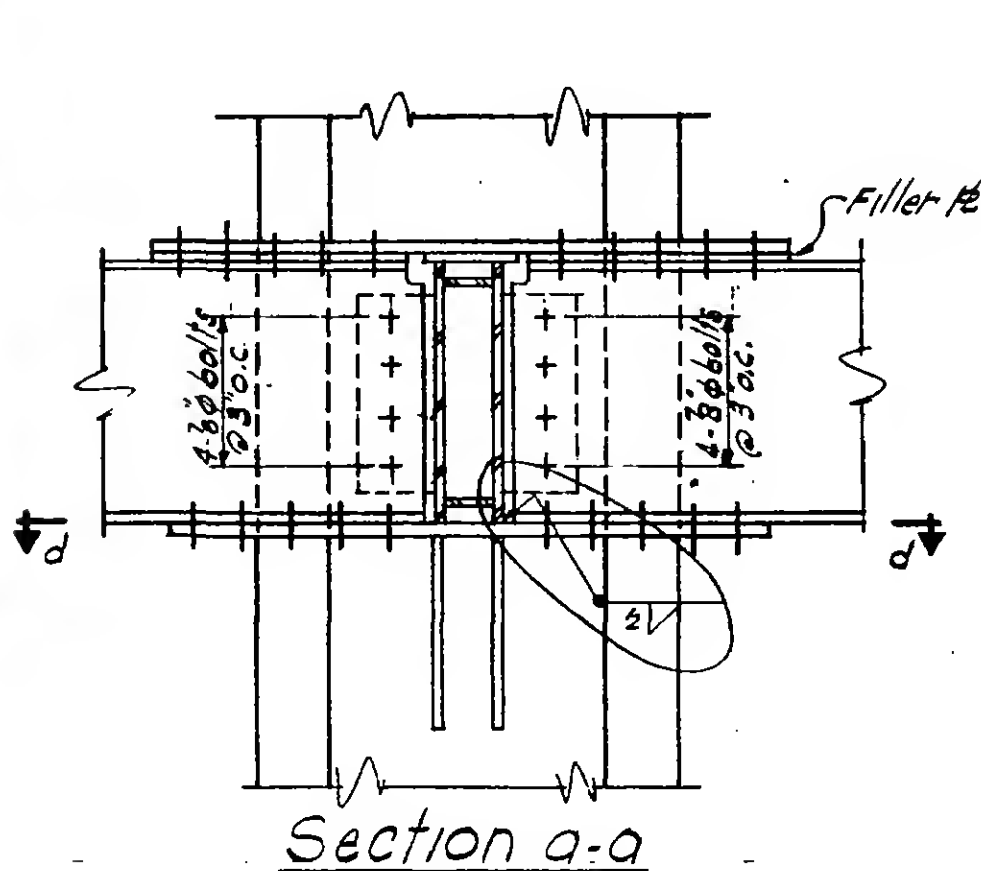
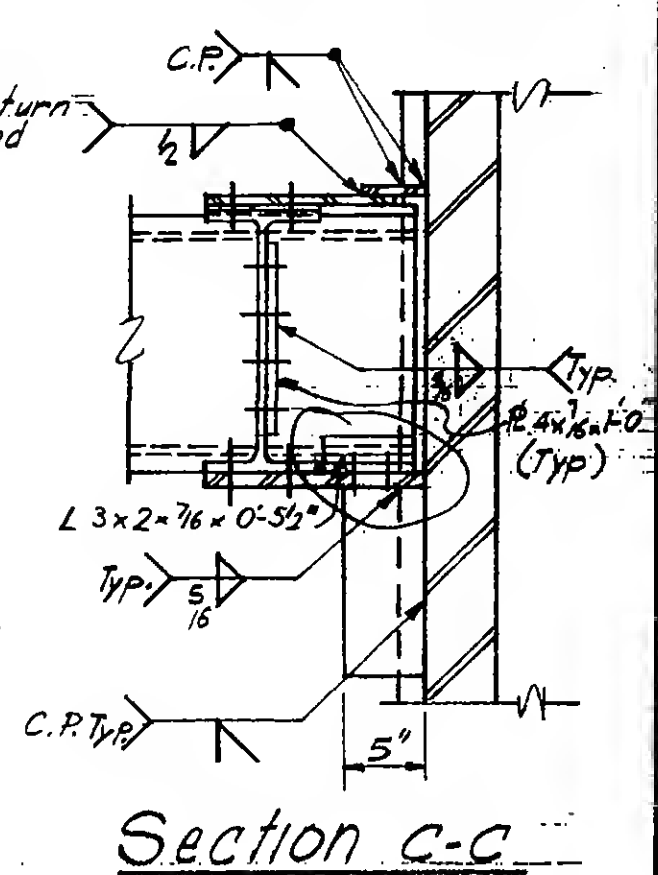
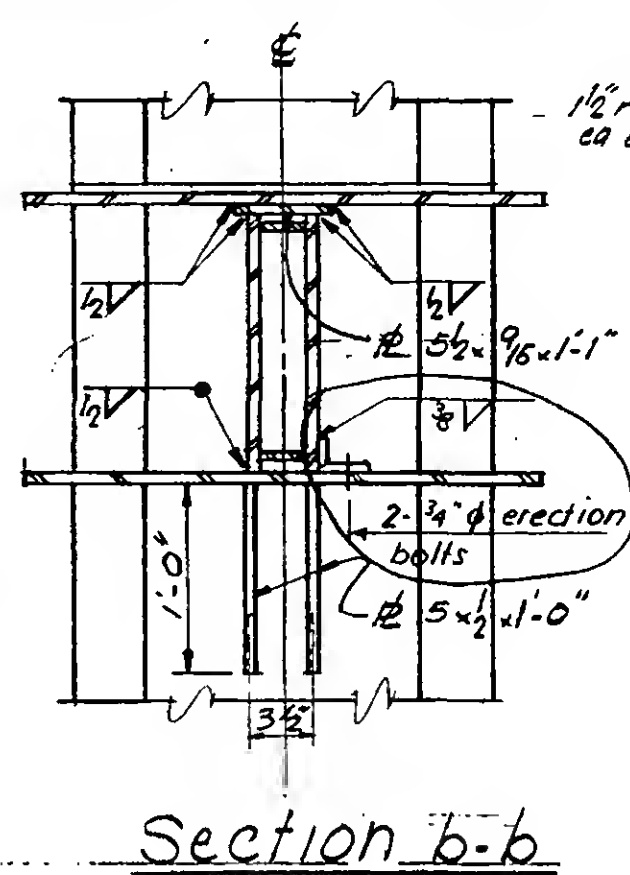
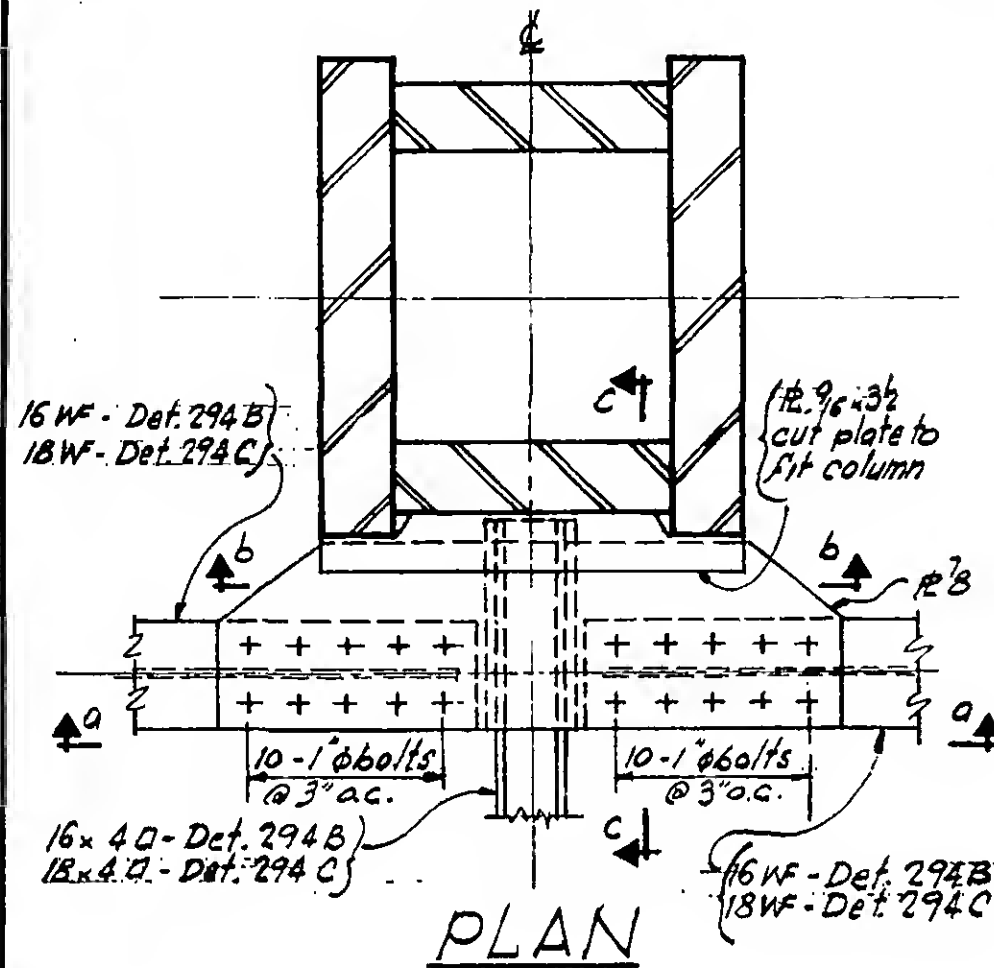
	294 A	294 D				
PLATES						
P	1"	1"				
Q	1"	1/2"				
ANGLES						
R	2-6x4x1x0-9 3/4"					
S	2-4x4x5/16x0-6"					
DIMENSIONS						
A	1'-8"					
B	0'-6"					
C	0'-7"					
BOLTS						
K	6-3/8" ϕ					
WELDS						
①	9/16"					
②	7/8"					
③	5/16"					



G-ABI-101.1

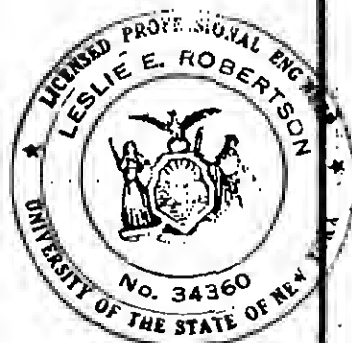
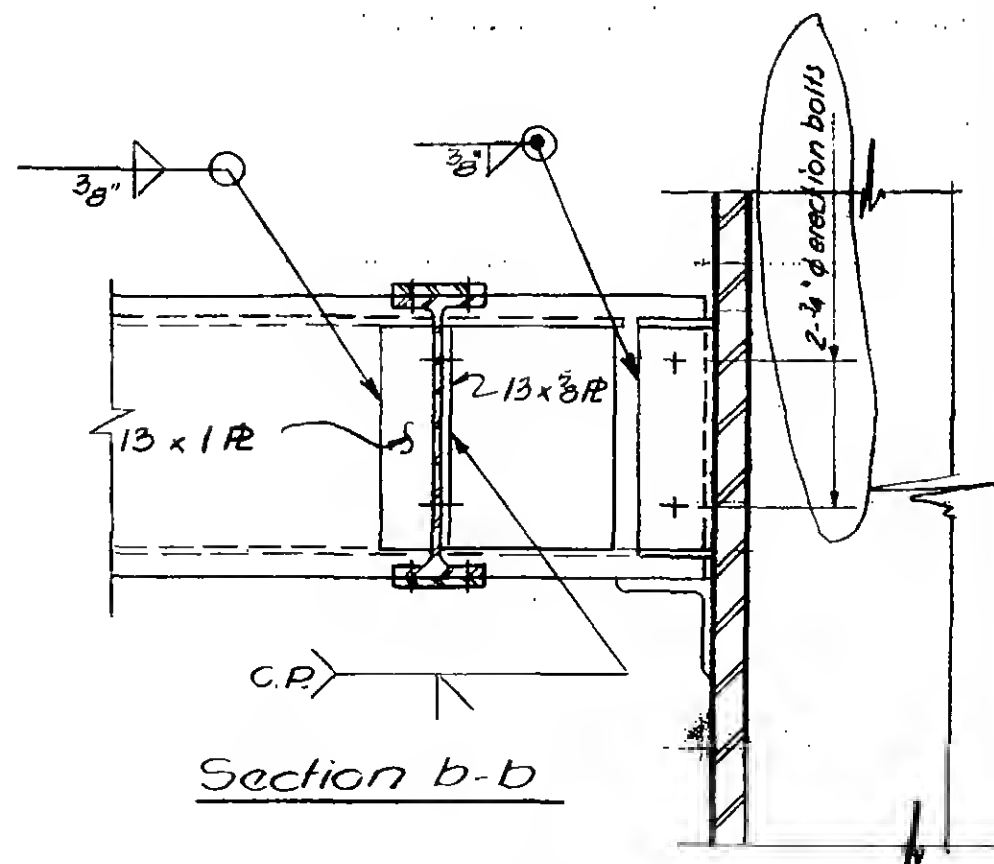
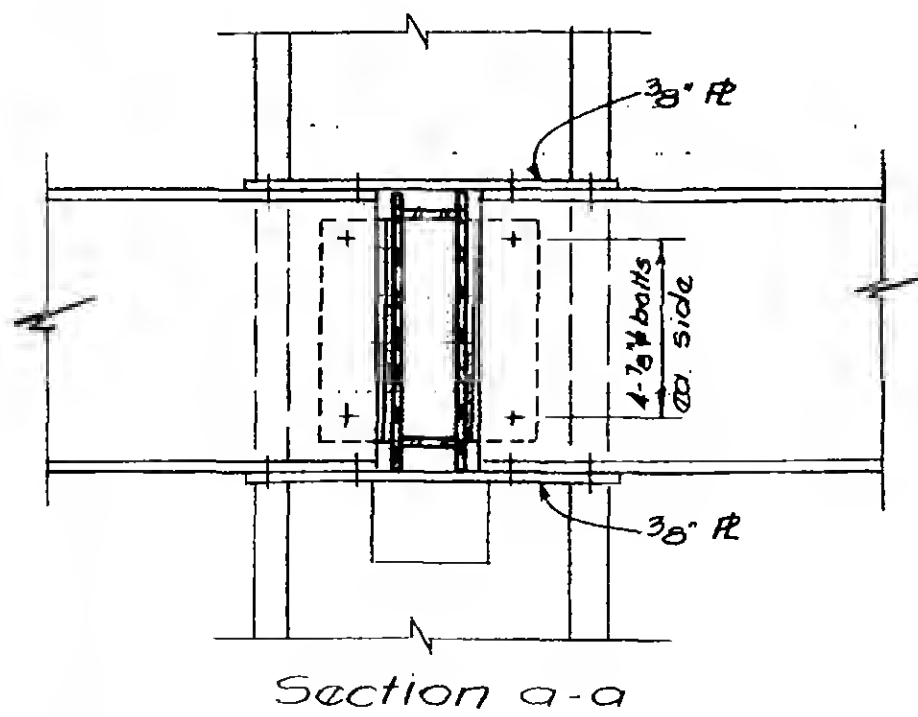
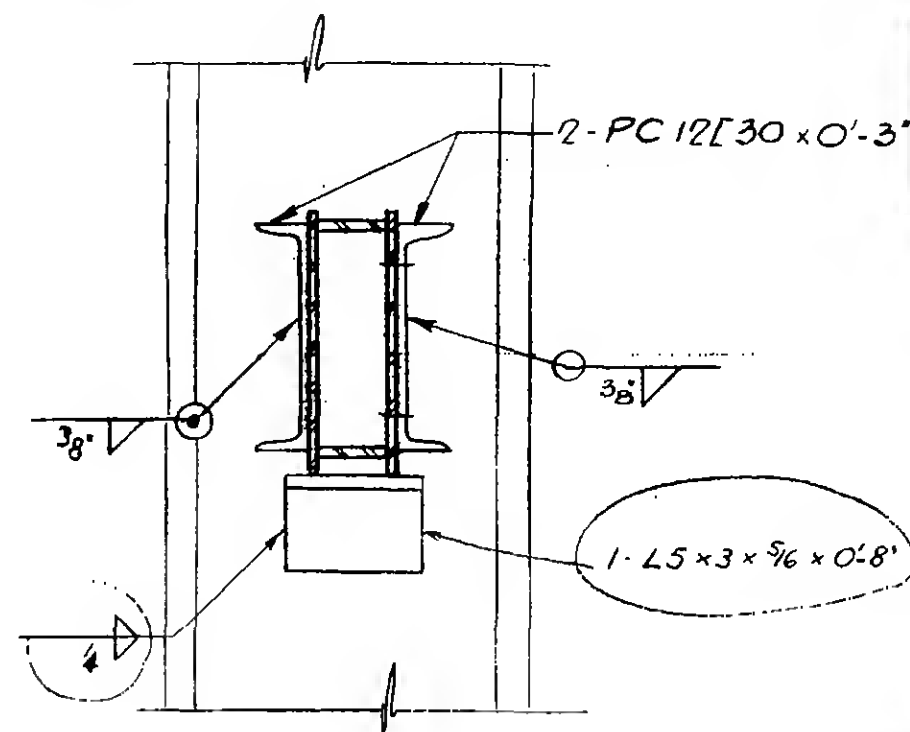
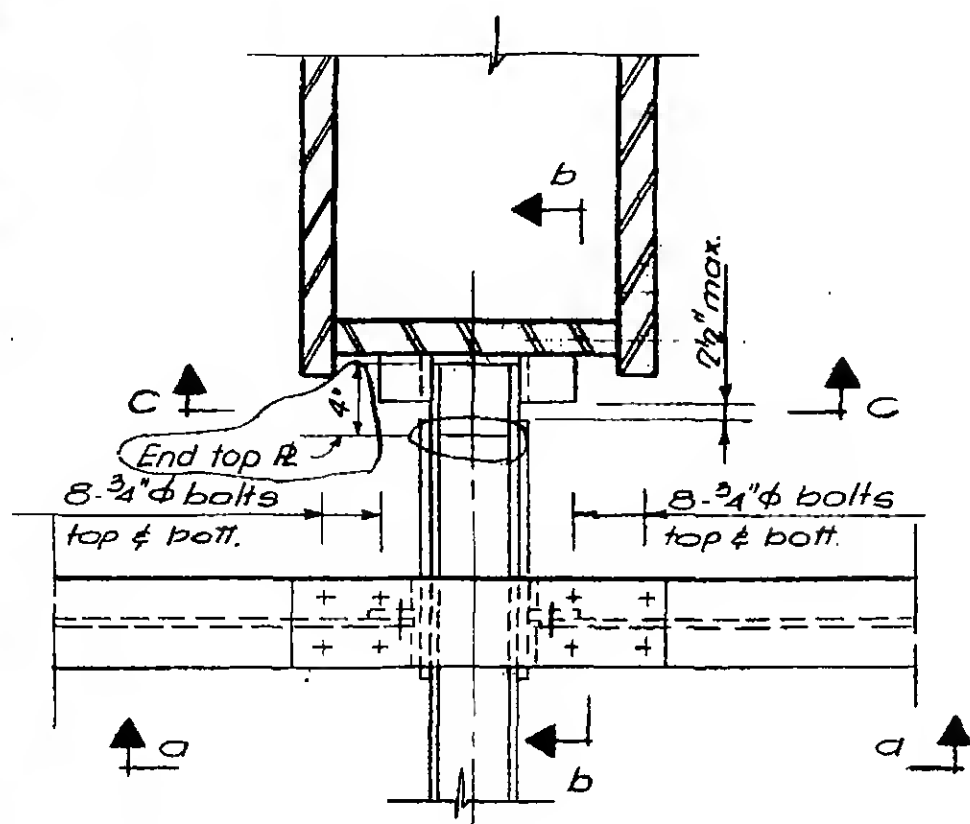
REVISIONS

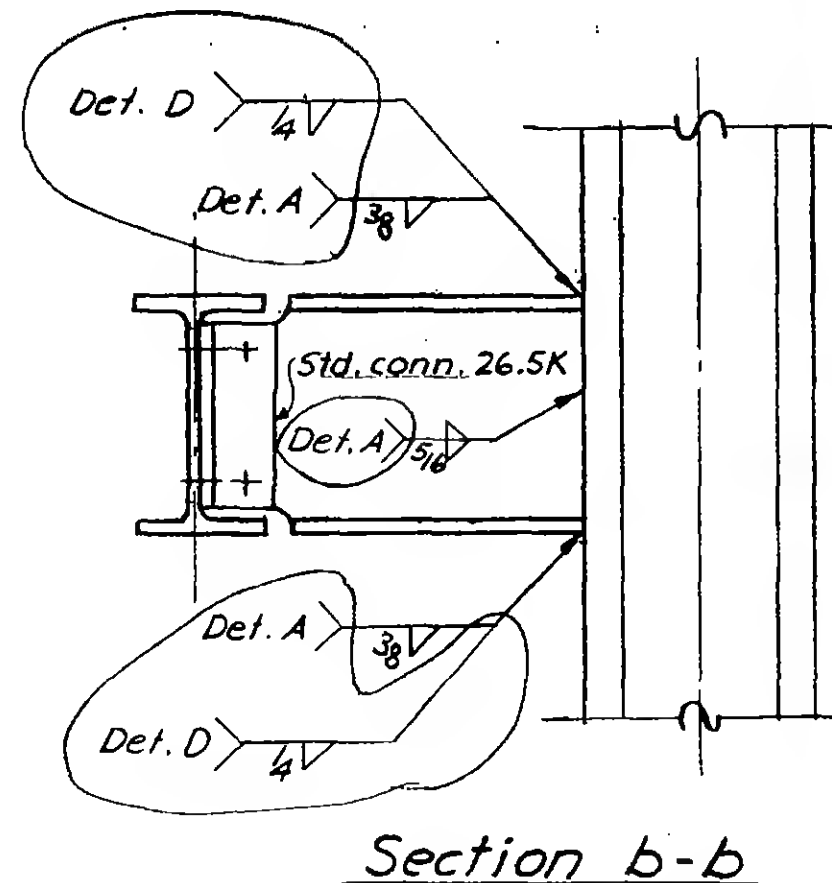
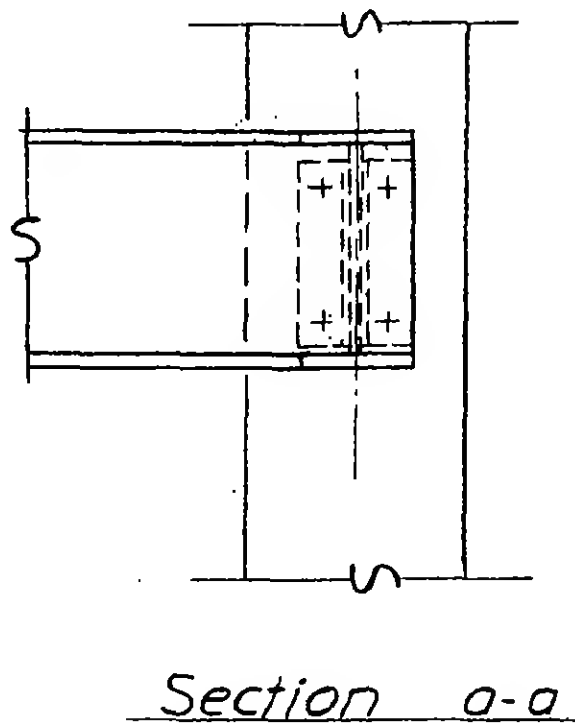
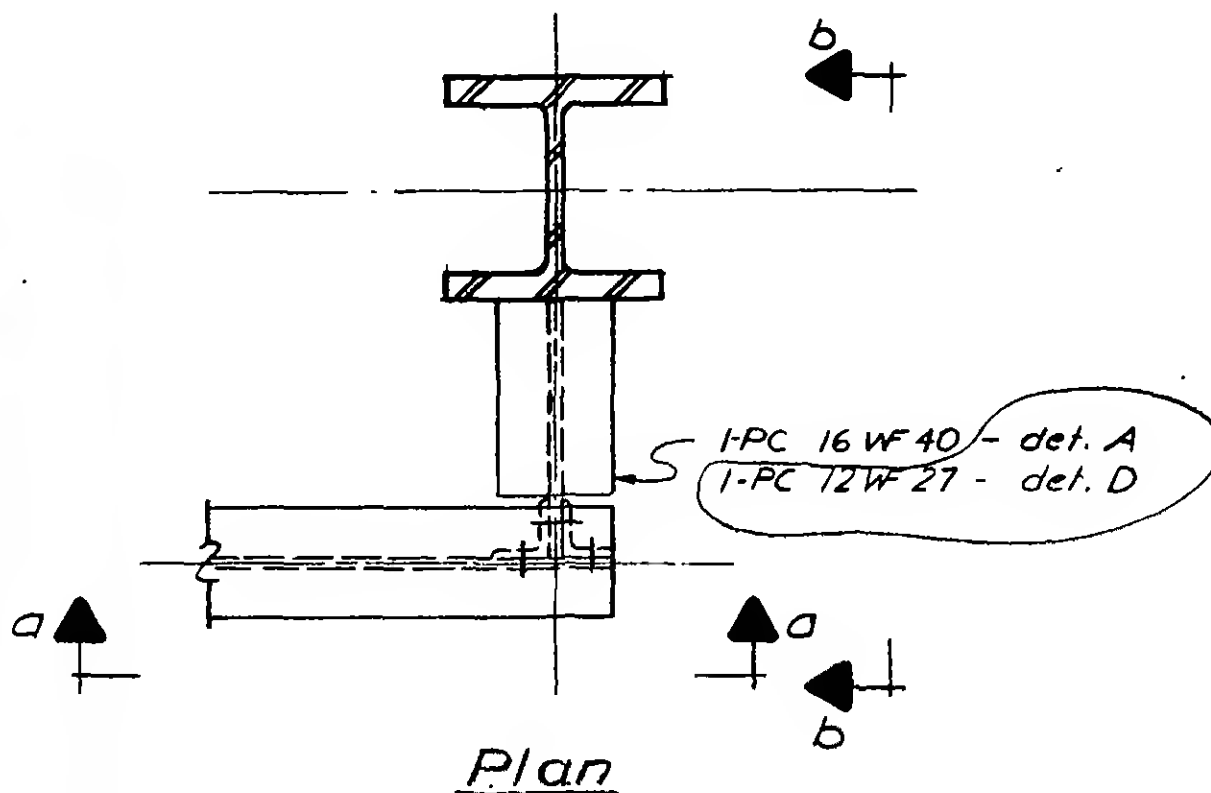
11-14-67



REVISIONS

10-2-67
11-14-67





PROJECT

THE WORLD TRADE CENTER

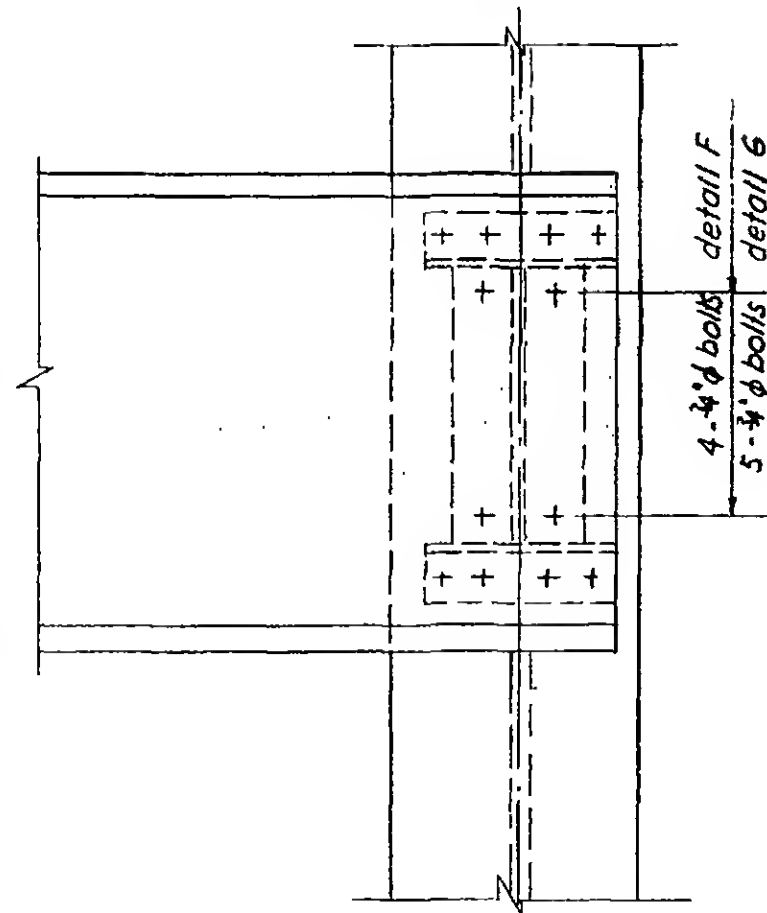
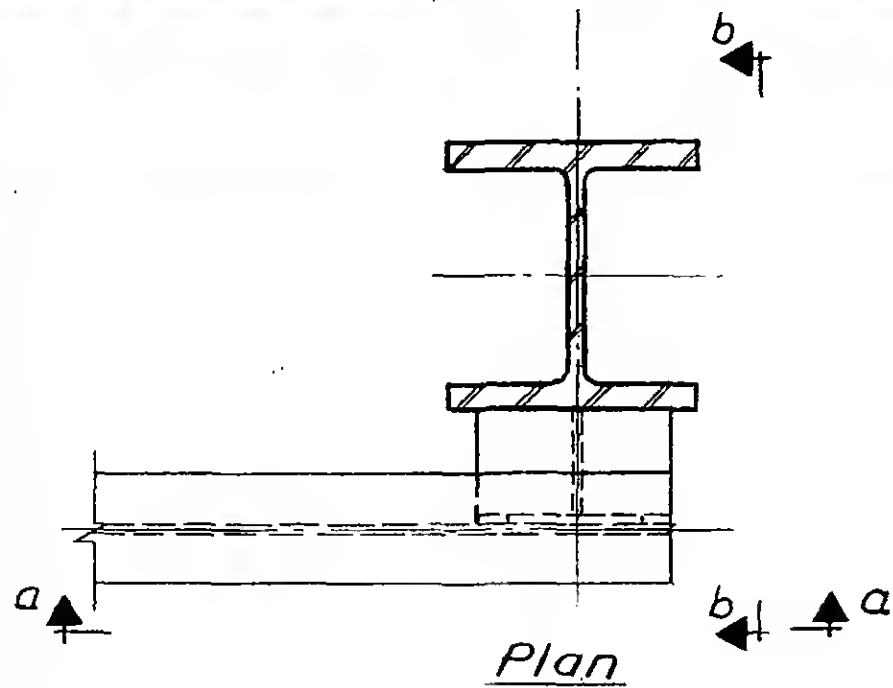
TITLE

CONNECTION DETAIL 295 F, G

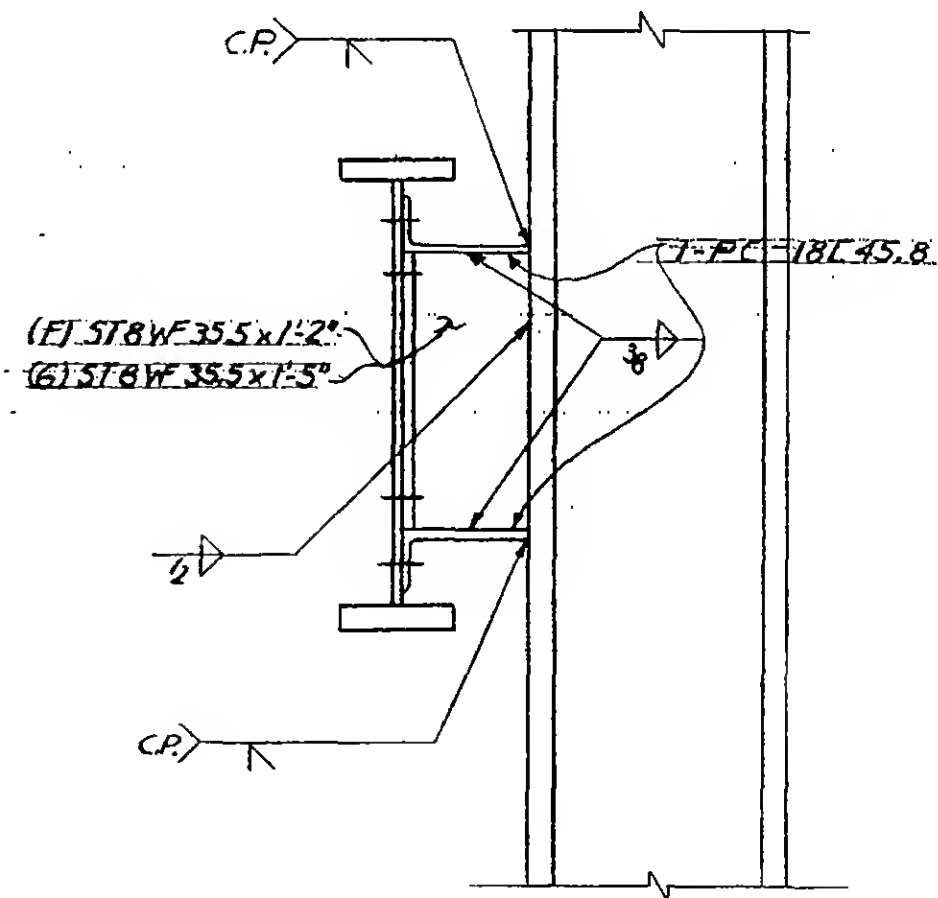
DATE

12-21-67

REVISIONS



Section a-a



Section b-b



PROJECT THE WORLD TRADE CENTER

TITLE CONNECTION DETAIL 296 A, B, C, H

DATE 5-9-67

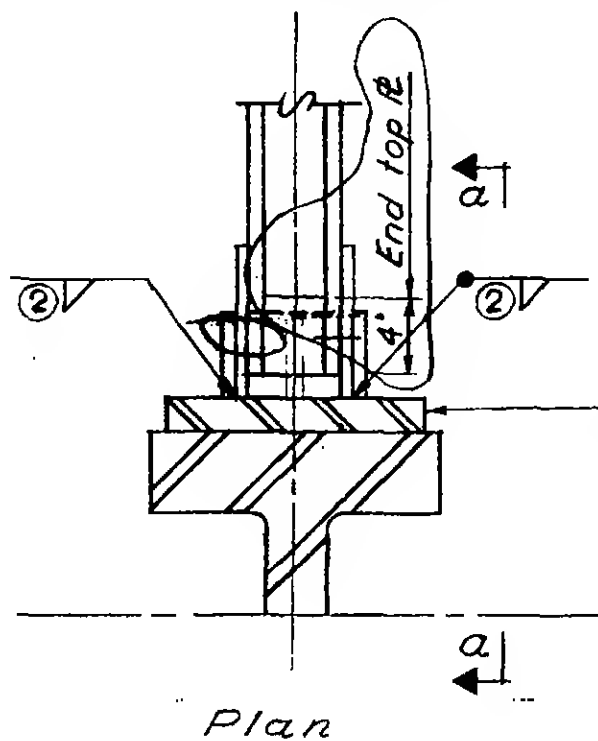
REVISIONS

7-28-67

9-15-67

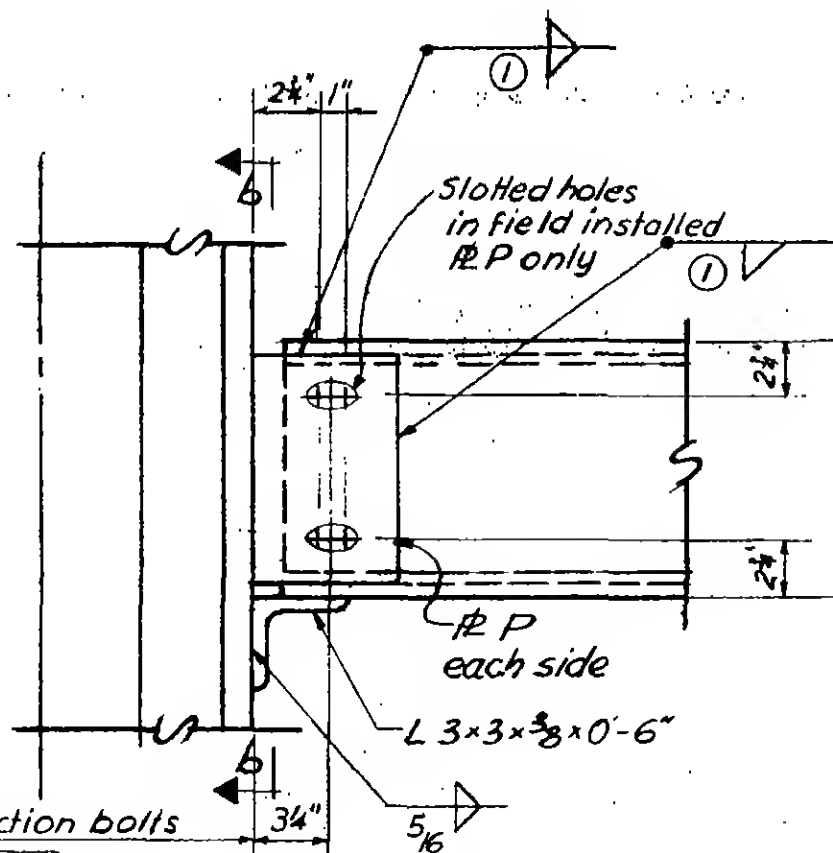
11-14-67

12-21-67

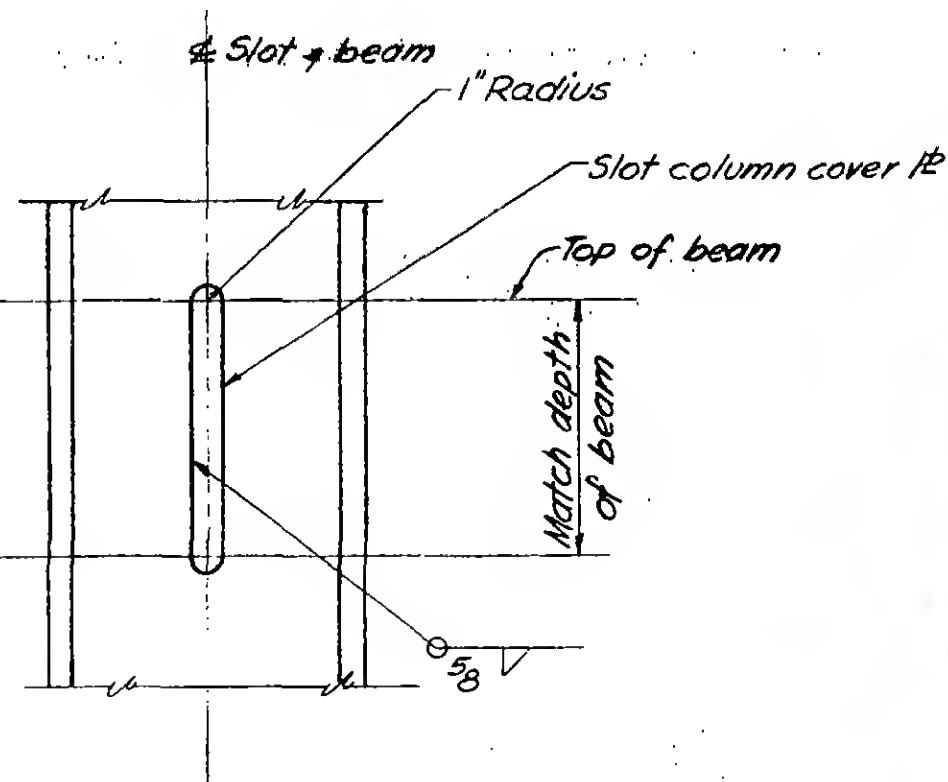


Detail 296 C, H have
no column cover R

Schedule			
	Plate P	Welds	
		①	②
296 A	6x5/16x1'-2"	1/4	5/16
296 B	6x5/16x1'-2"	1/4	5/16
296 C	6x5/16x1'-2"	1/4	5/16
296 H	6x5/8x1'-2"	1/2	9/16



Section a-a

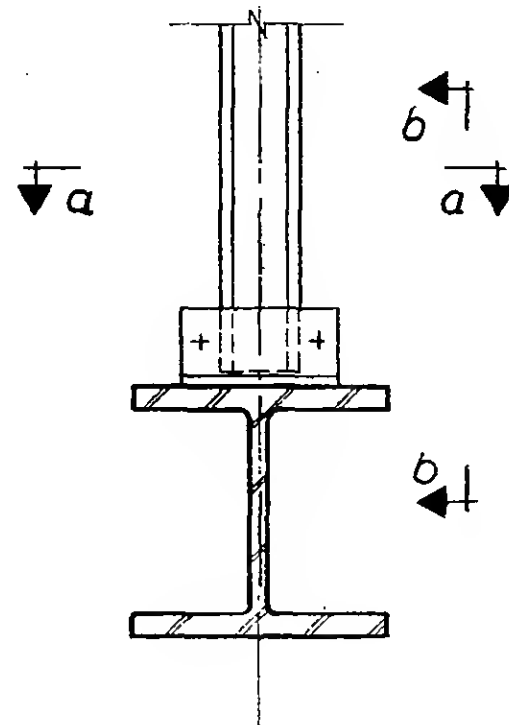
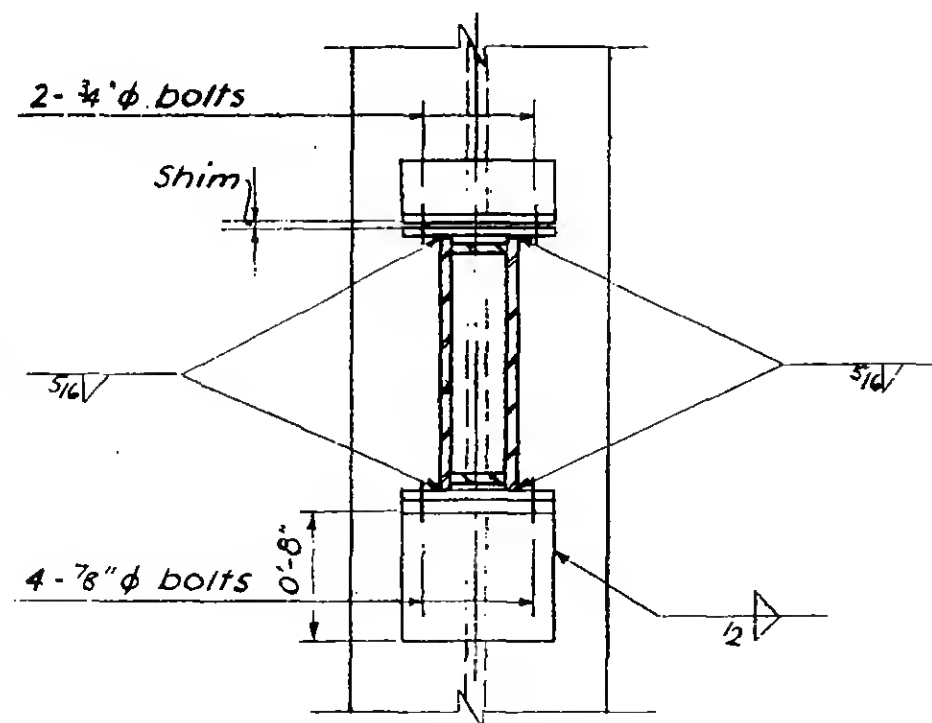
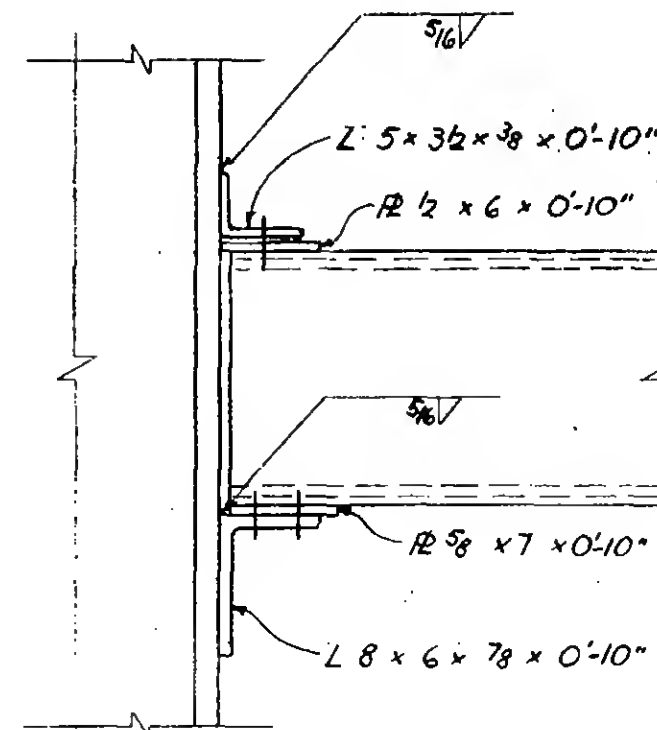


Section b-b

Detail 296 B only



REVISIONS

PlanSection a-aSection b-b

PROJECT

THE WORLD TRADE CENTER

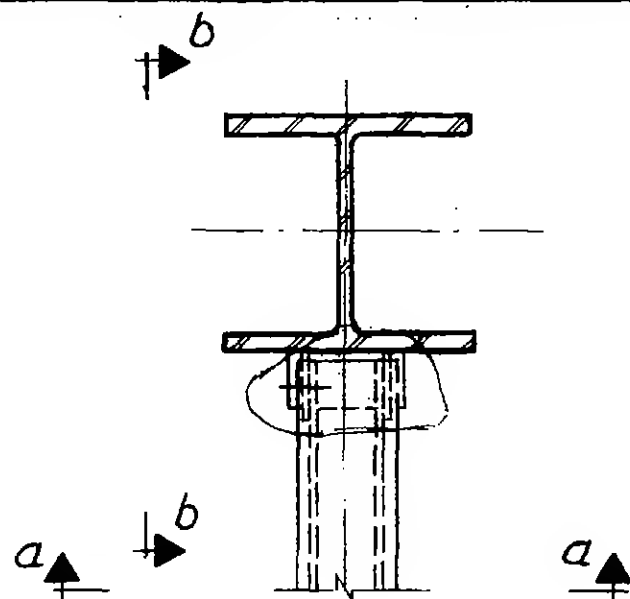
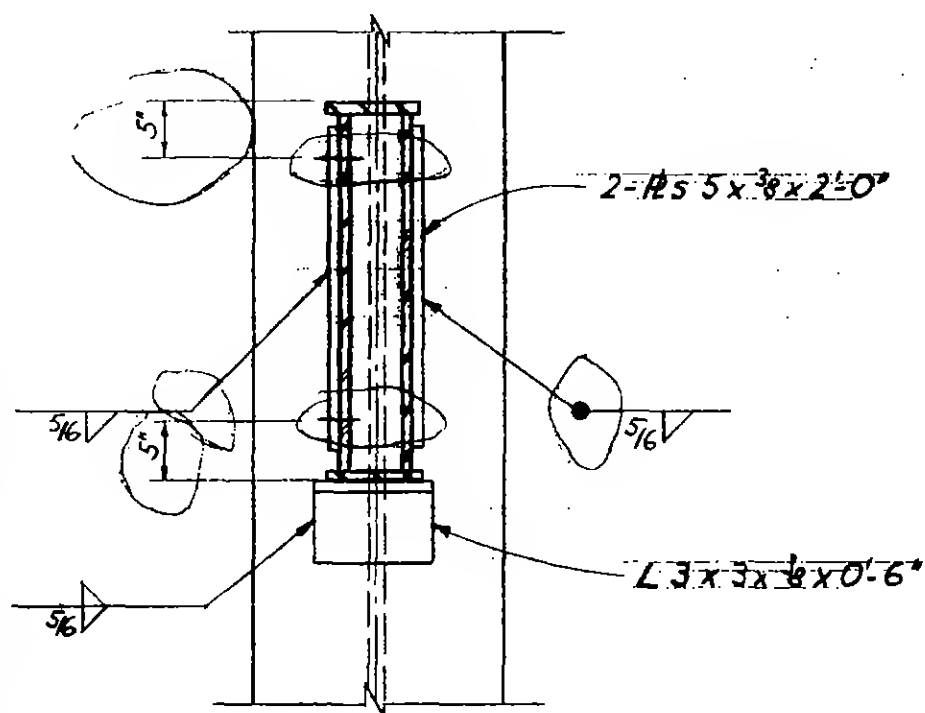
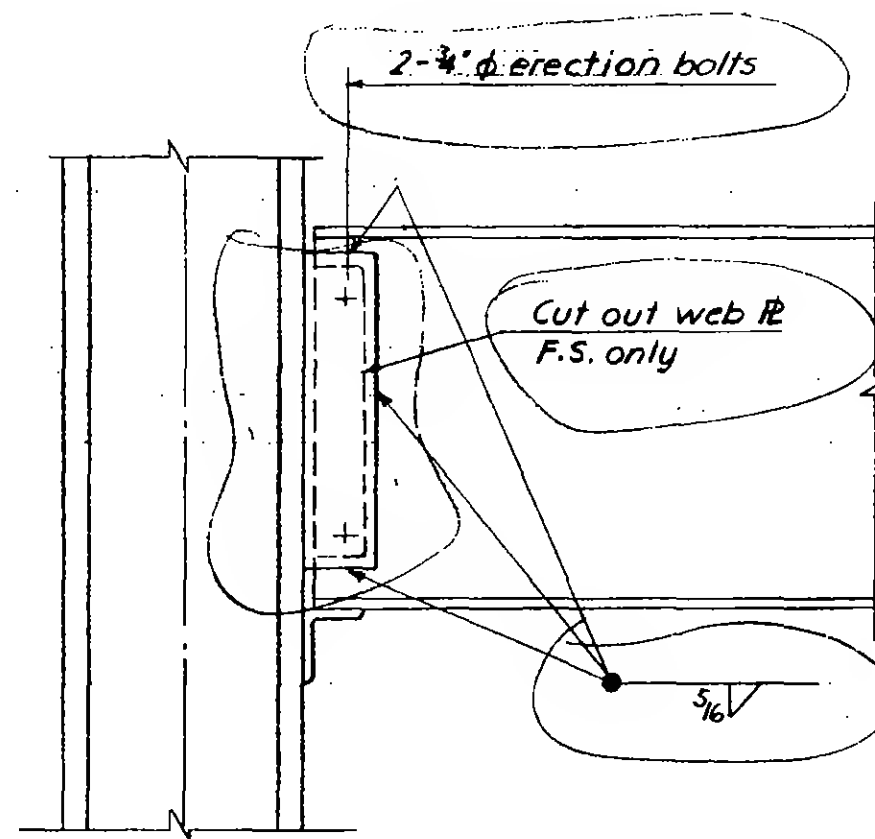
TITLE

CONNECTION DETAIL 296-I

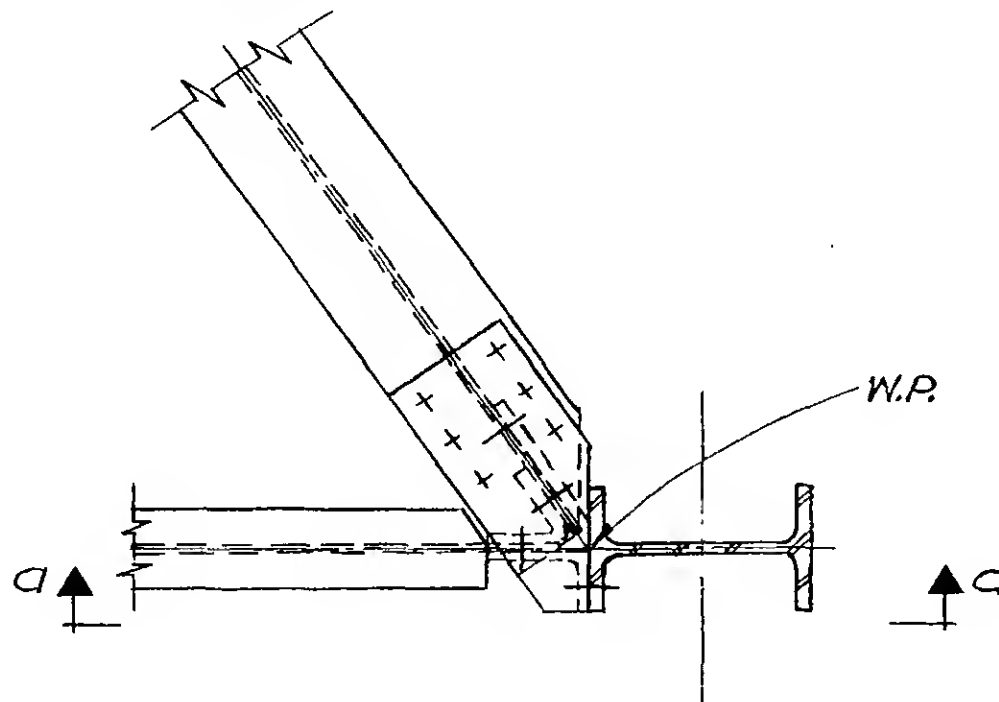
DATE

12-21-67

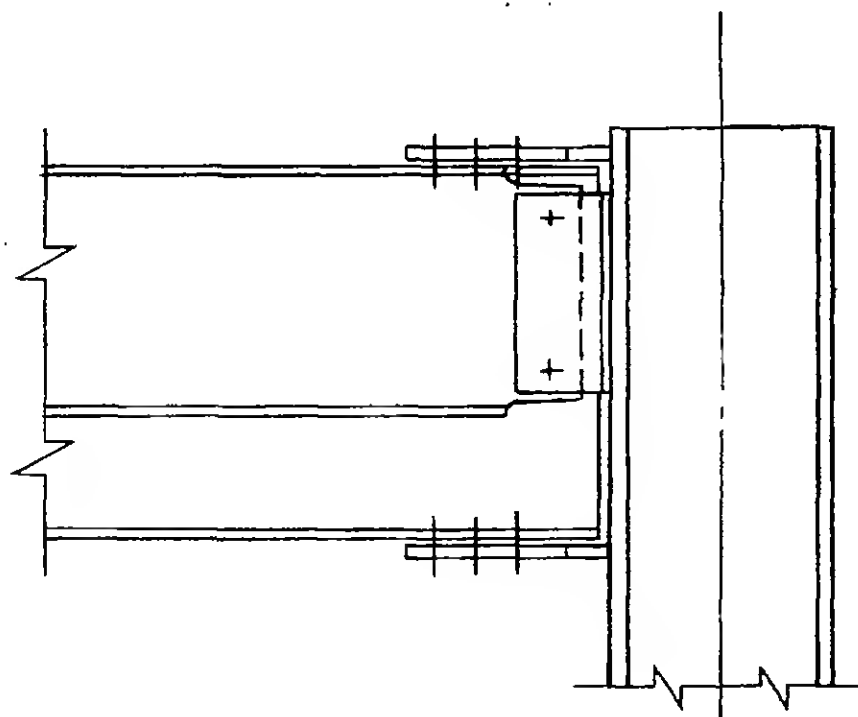
REVISIONS

PlanSection a-aSection b-b

REVISIONS



PLAN



Section a-a



WORTHINGTON, SKILLING, HELLE & JACKSON

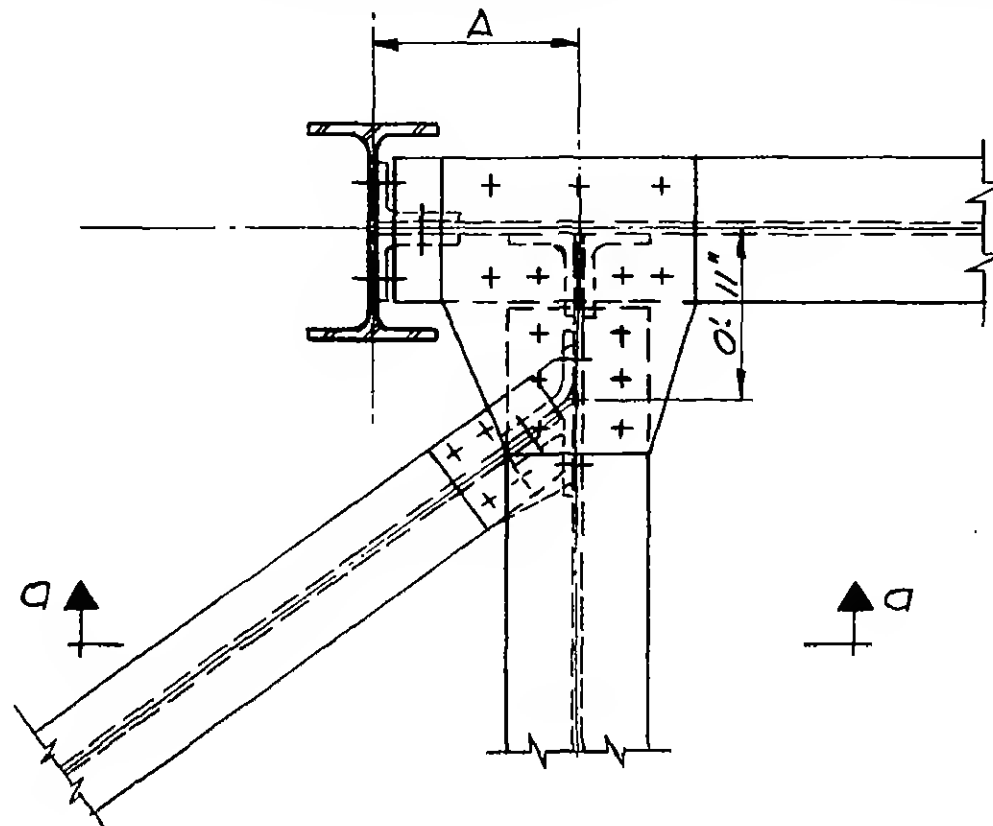
Civil & Structural Engineers

PROJECT THE WORLD TRADE CENTER

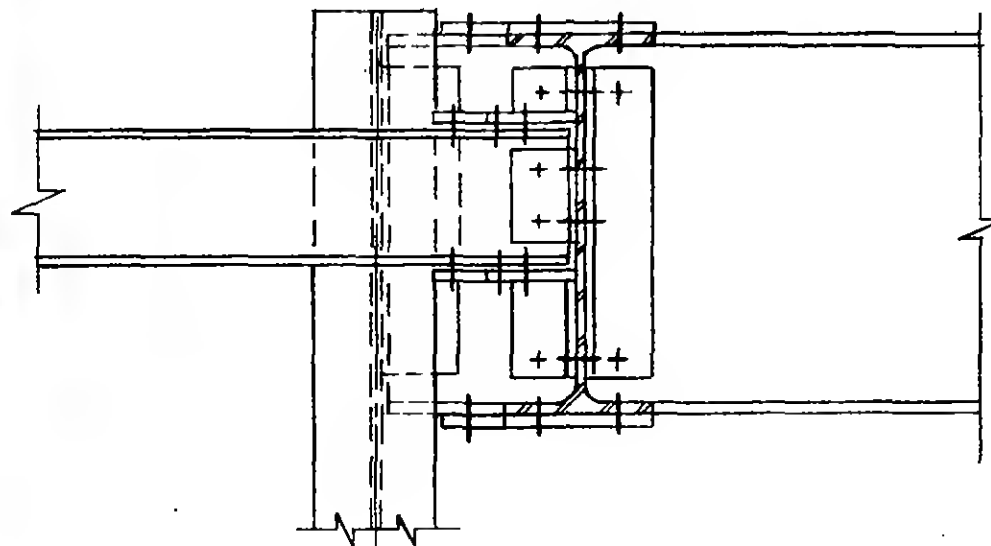
TITLE CONNECTION DETAIL 299

DATE 7/20/67

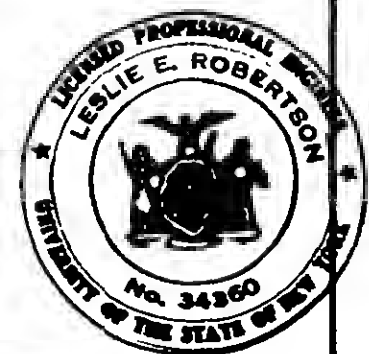
REVISIONS



PLAN



Section a-a



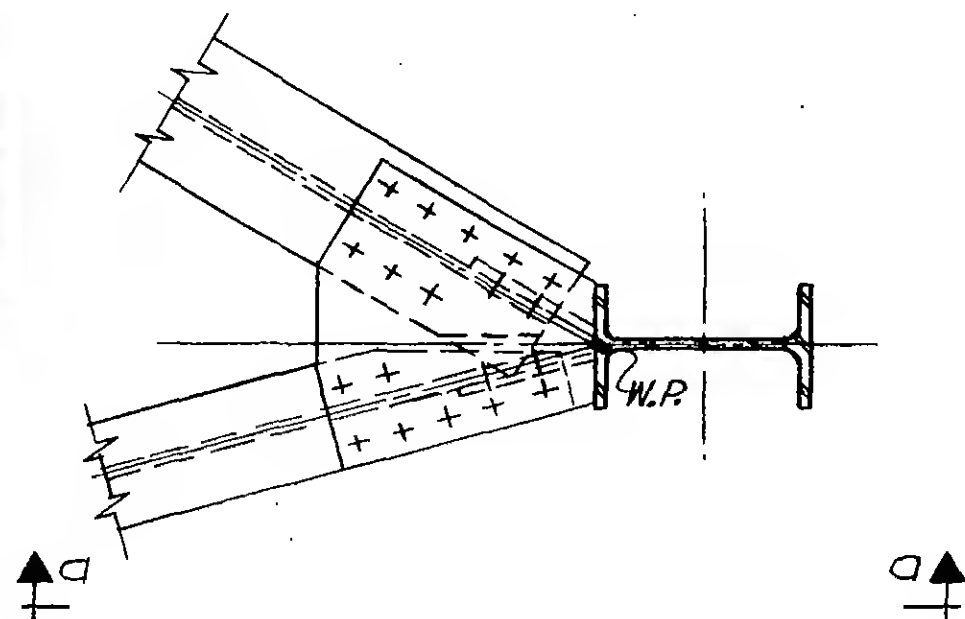
6-ABI-106

PROJECT THE WORLD TRADE CENTER

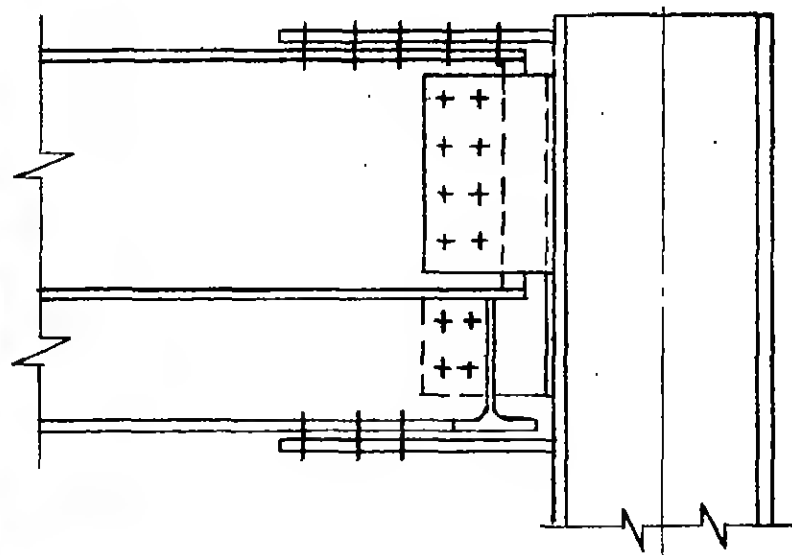
TITLE CONNECTION DETAIL 300

DATE 7/20/67

REVISIONS



PLAN



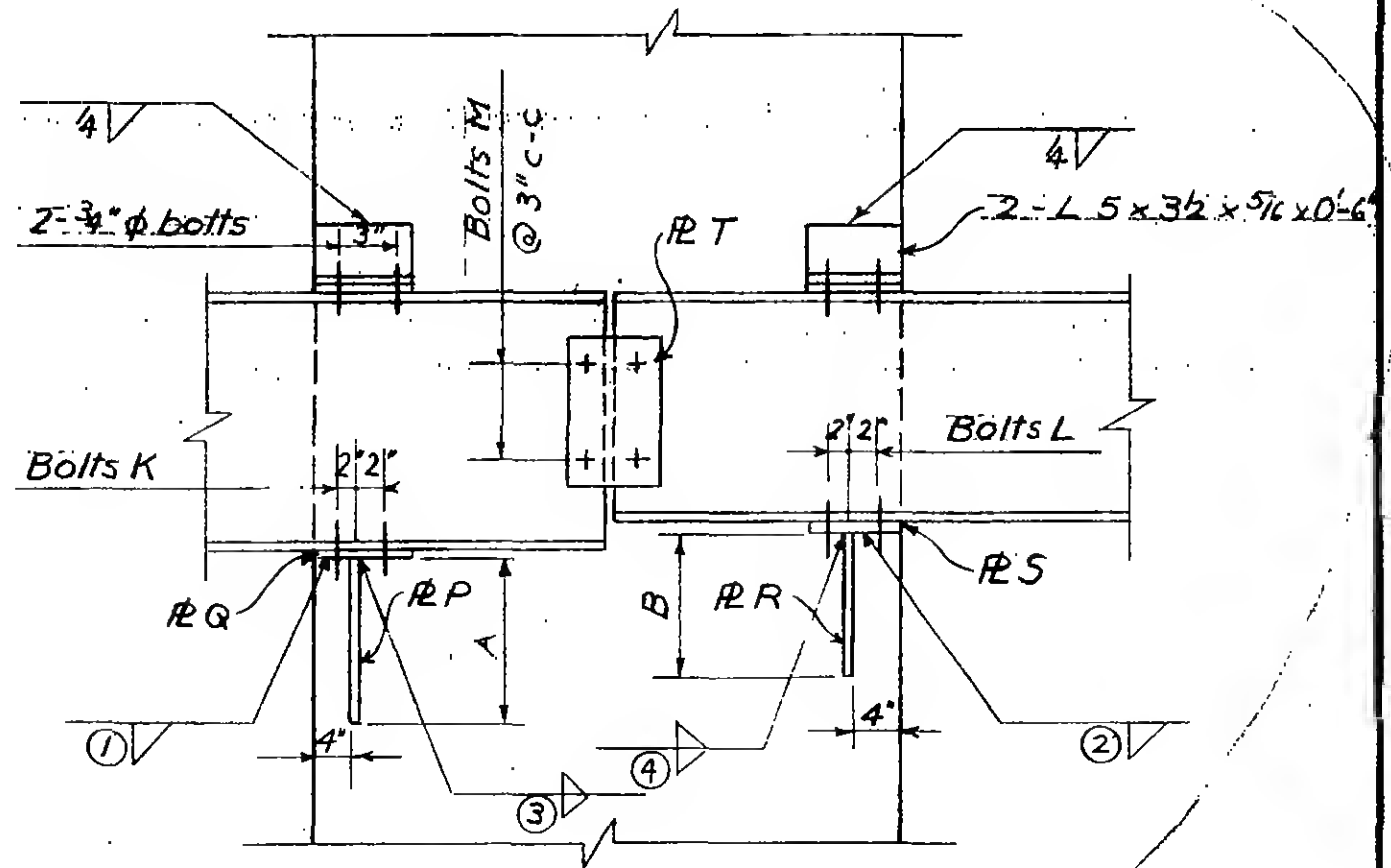
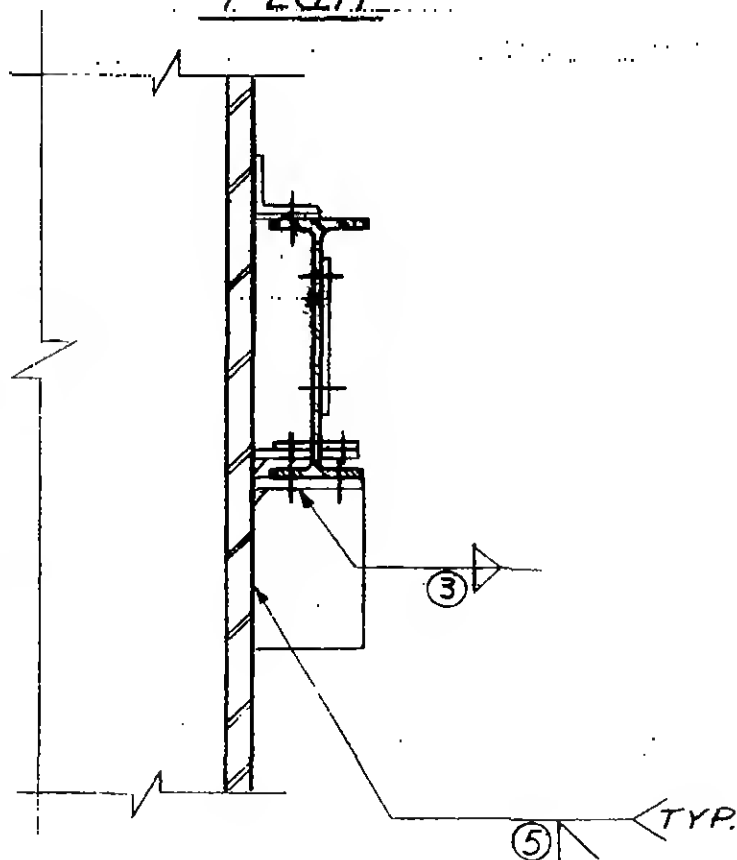
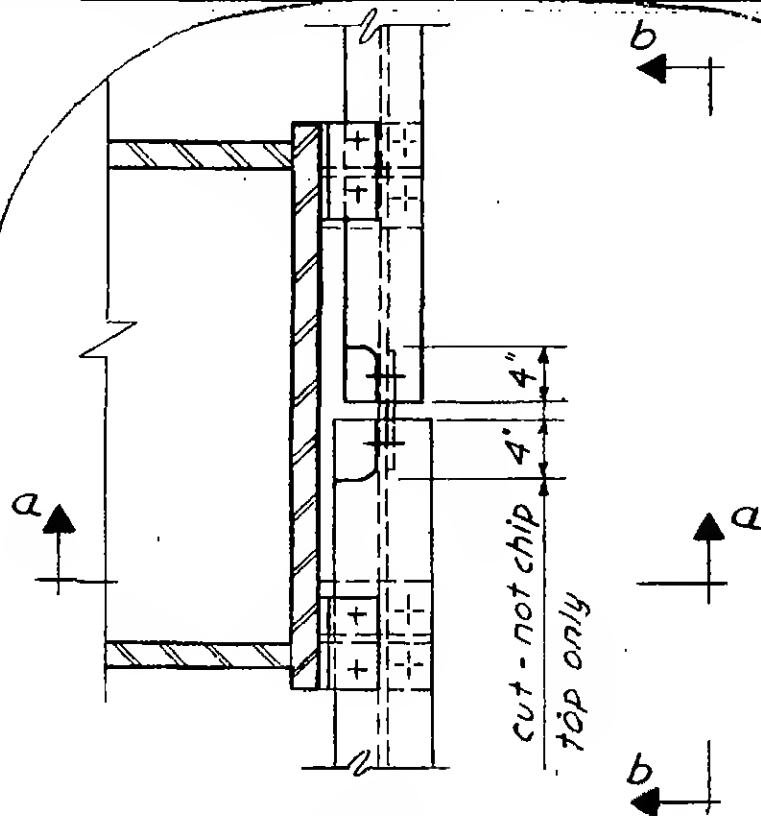
Section a-a



REVISIONS

8-14-67

9-15-67



Structural & Civil Engineers

PROJECT

THE WORLD TRADE CENTER

TITLE

SCHEDULE FOR DETAIL 301A, B, C

DATE _____

E 8-14-67

REVISIONS

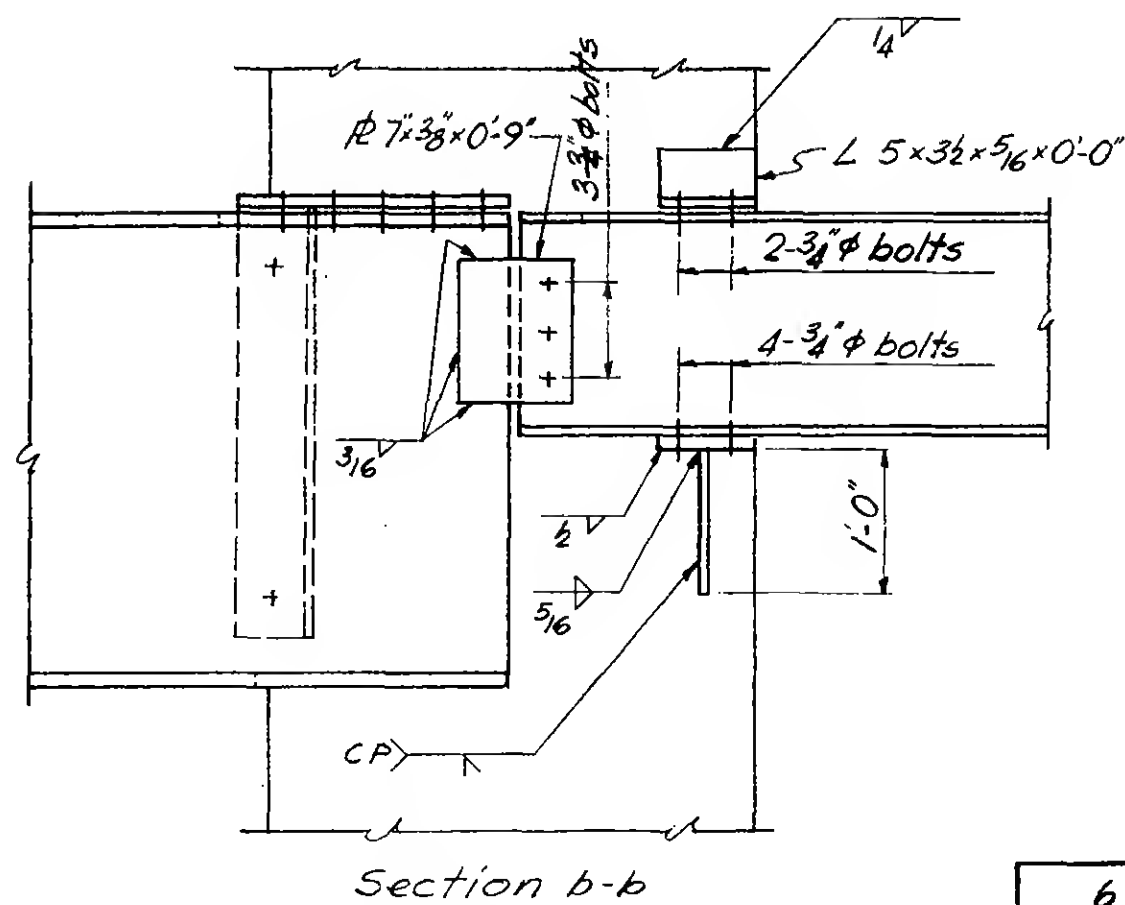
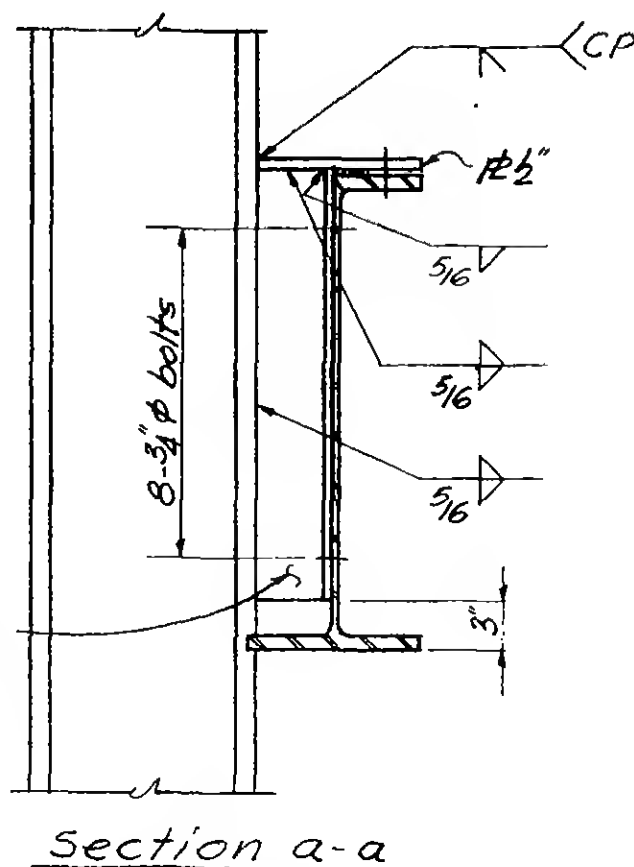
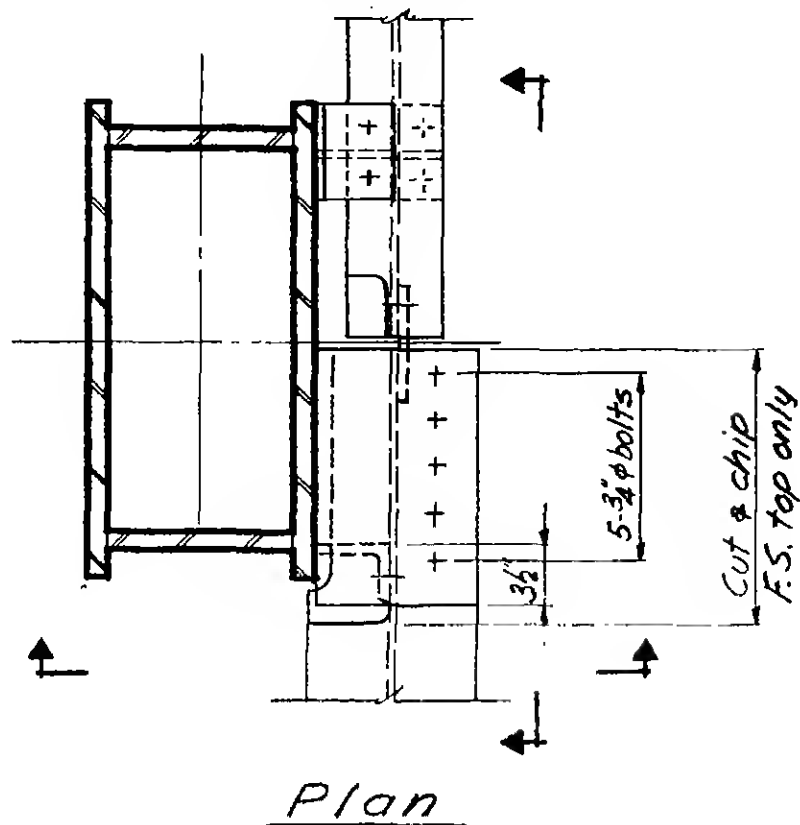
9-15-67

	301 A	301 B,C
PLATES		
P	1/2"	1/2"
Q	1/2"	1/2"
R	1/2"	1/2"
S	1/2"	1/2"
T	3/8"	3/8"
DIMENSIONS		
A	1'-0"	1'-0"
B	1'-0"	1'-0"
BOLTS		
K	4 - 3/4" ϕ	4 - 3/4" ϕ
L	4 - 3/4" ϕ	4 - 3/4" ϕ
M	3 - 3/4" ϕ	3 - 1" ϕ
WELDS		
①	1/2	1/2
②	1/2	1/2
③	5/16	5/16
④	5/16	5/16
⑤	C.P.	C.P.

6-AB1-108.1

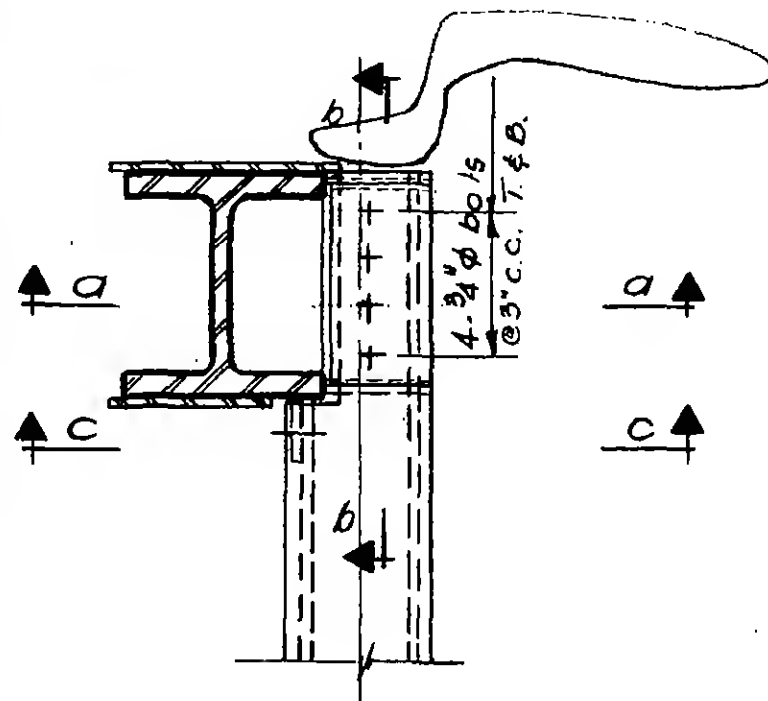


REVISIONS

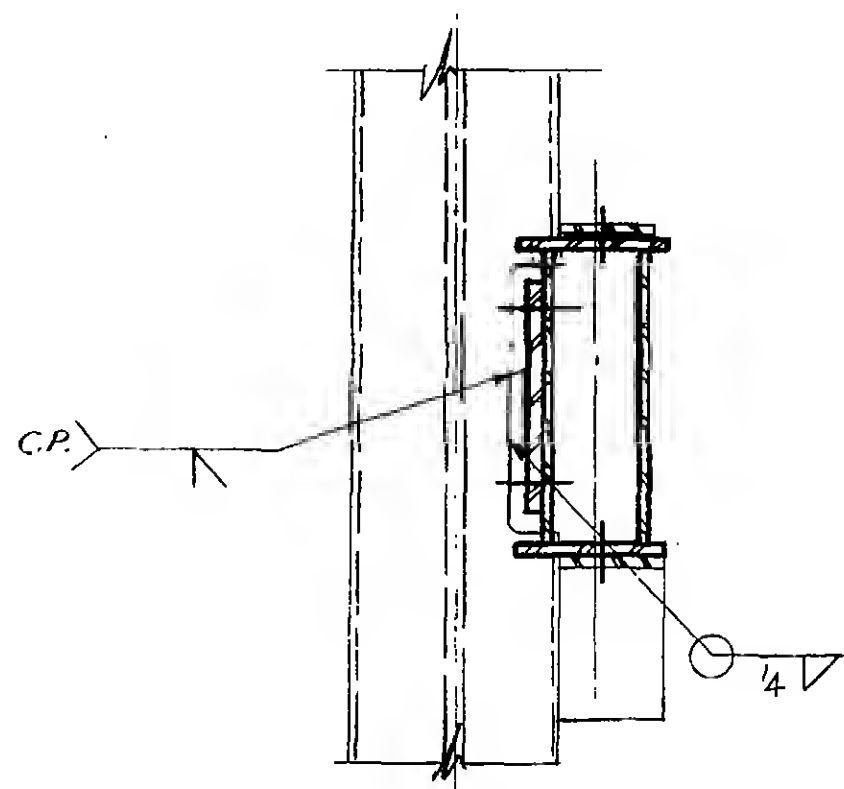


REVISIONS

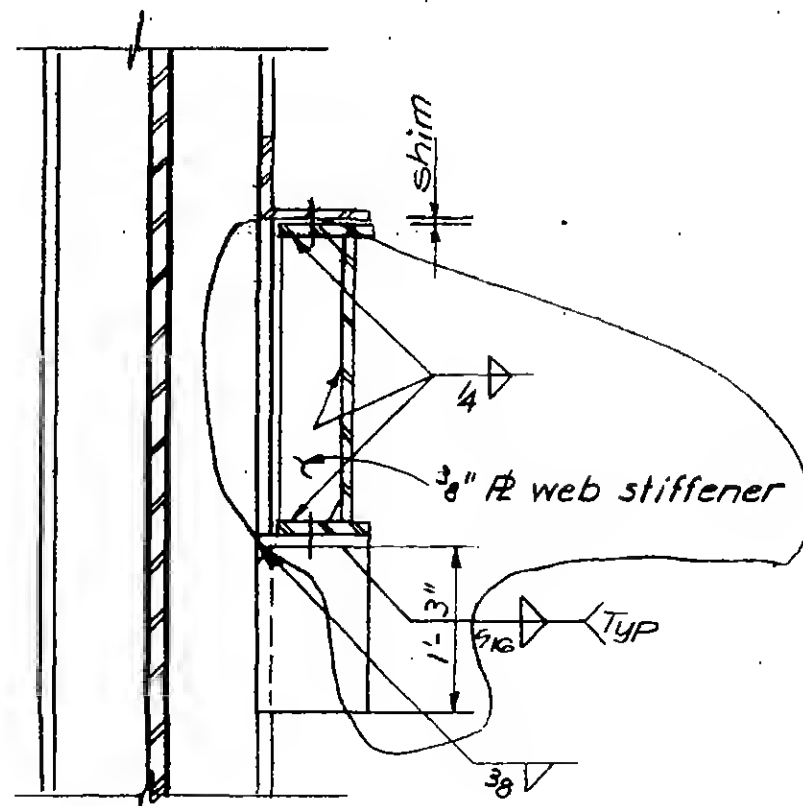
7-20-67
10-5-67



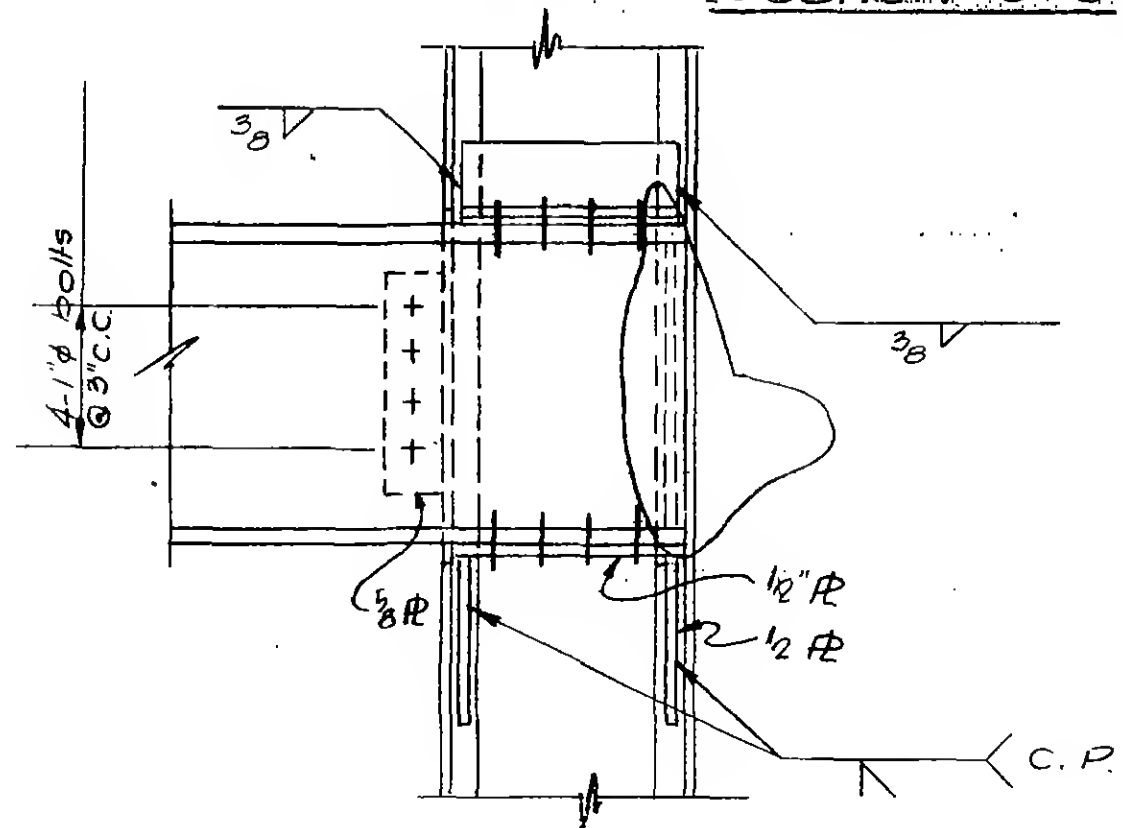
Plan



Section c-c



Section a-a



Section b-b



PROJECT THE WORLD TRADE CENTER

TITLE CONNECTION DETAIL 303 A,B

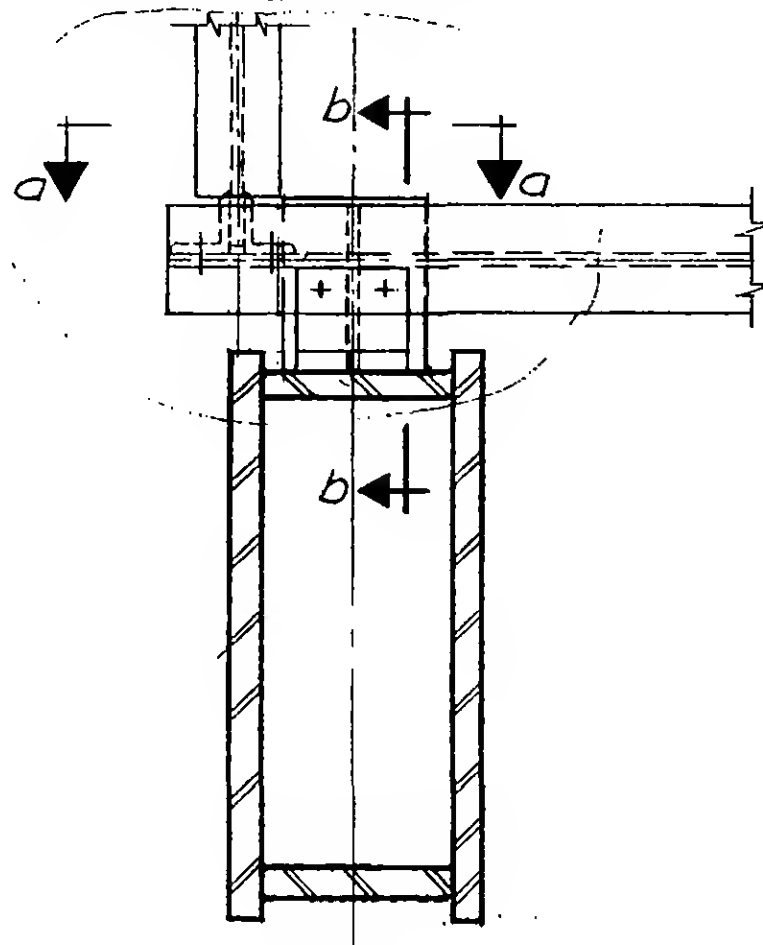
DATE 6-5-67

REVISIONS

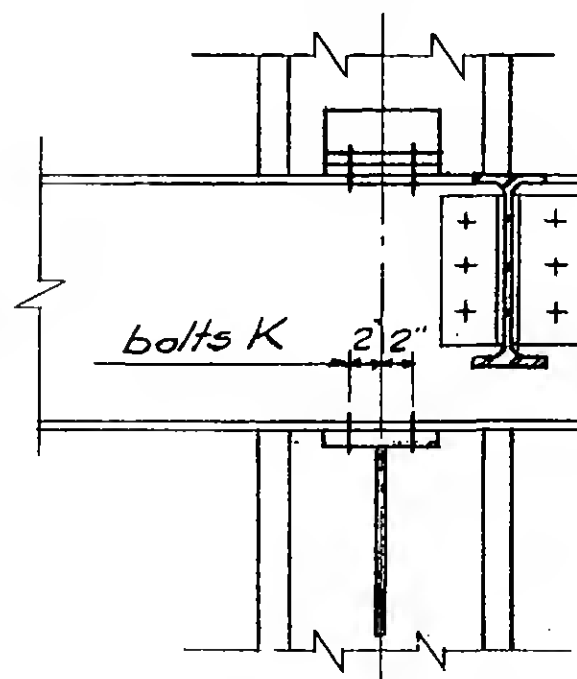
7-28-67

9-15-67

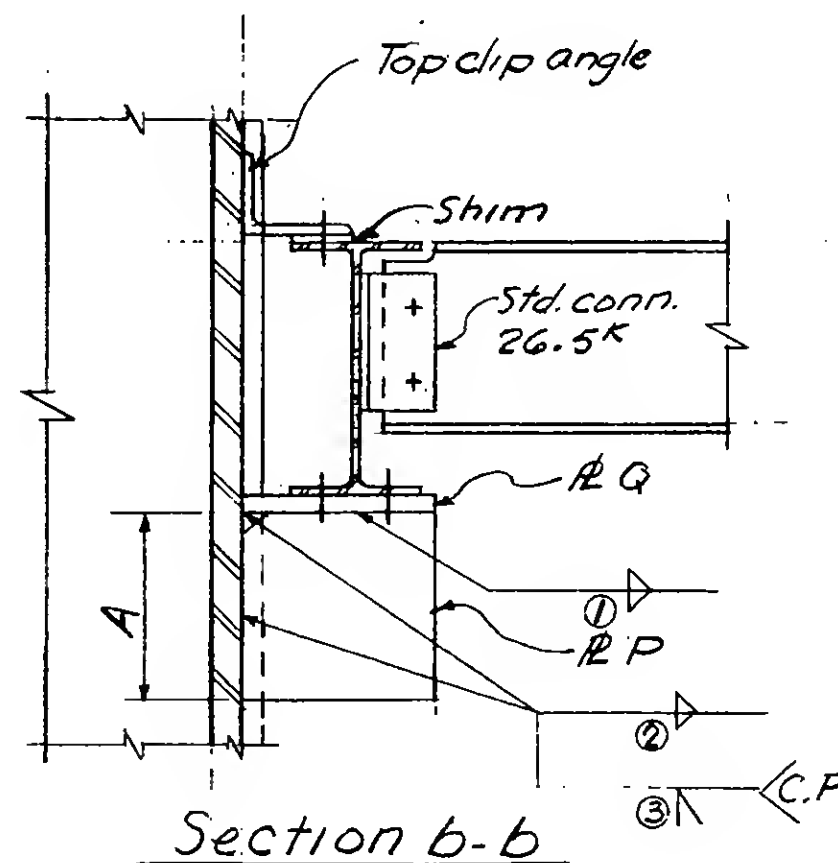
11-10-67



Plan



Section a-a



Section b-b



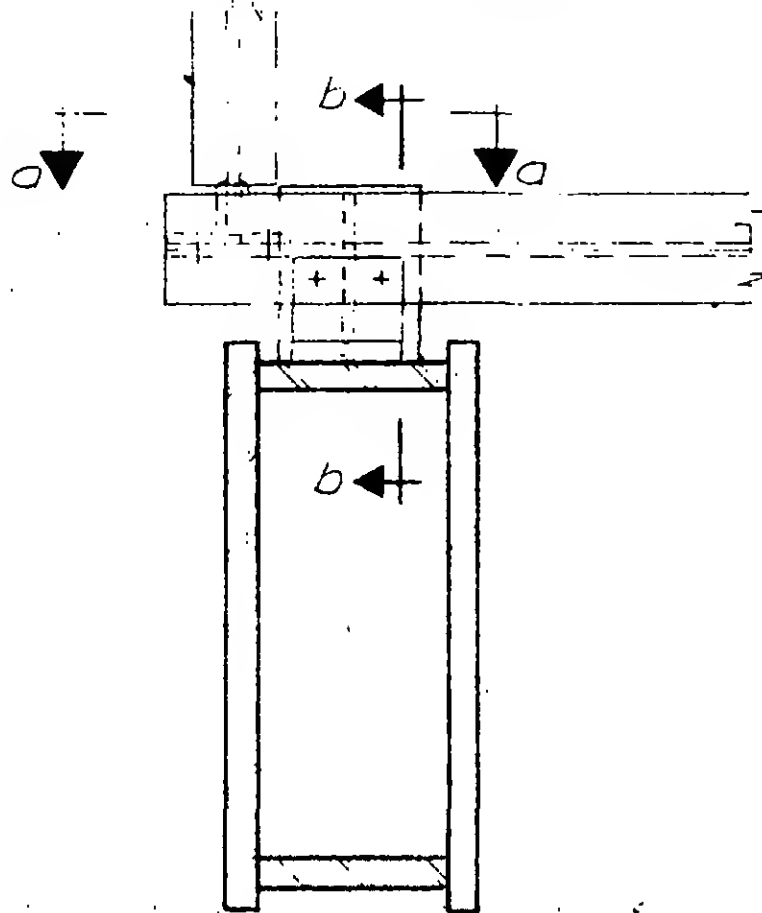
PROJECT THE WORLD TRADE CENTER

TITLE CONNECTION DETAIL 303 A, B

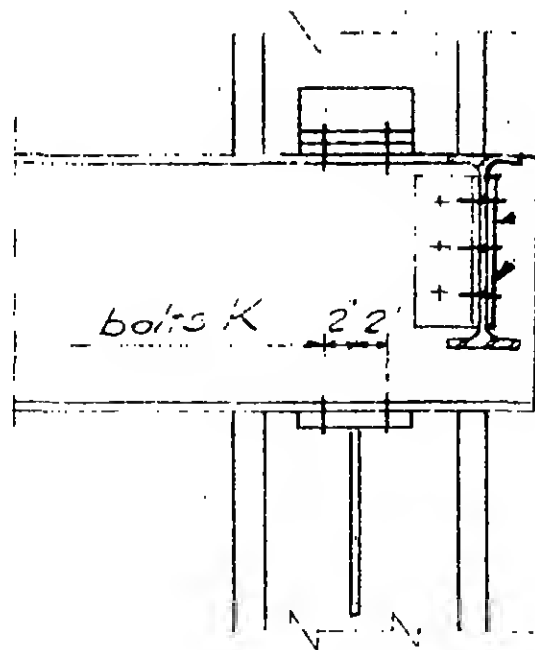
DATE 6-5-67

REVISIONS

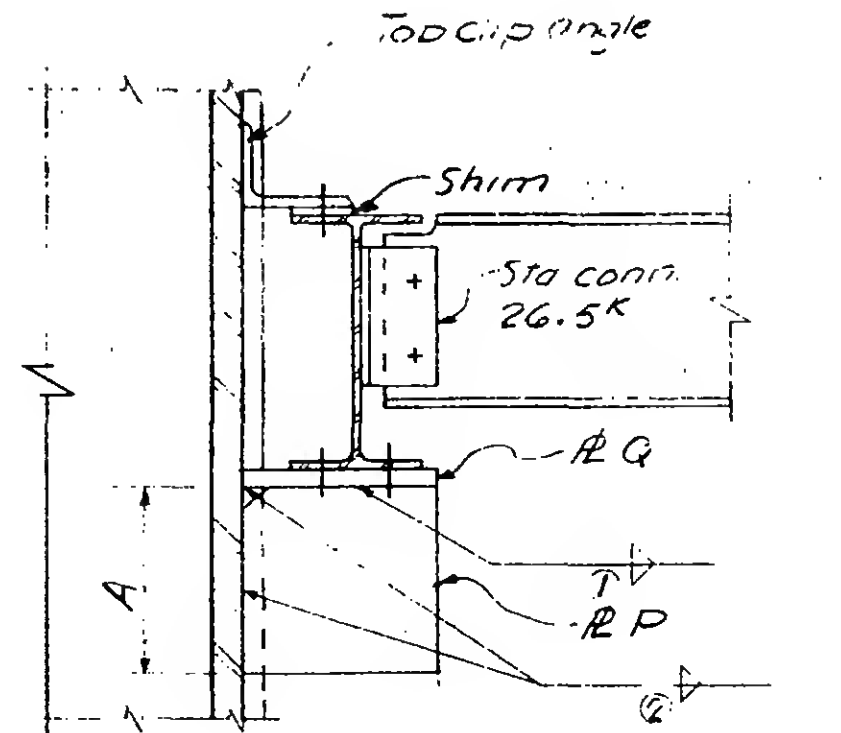
-28-67
9-15-67
11-10-67
12-8-67



Plan

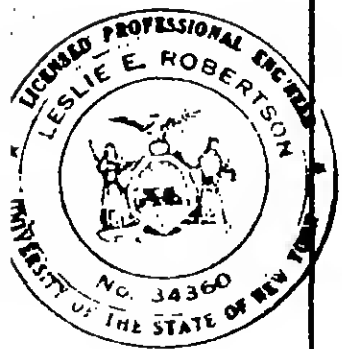


Section a-a



Section b-b

Use Alt. for beam
no. 2186 on Secondary
Level above floor 33
Tower A at col. 601



Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER

TITLE SCHEDULE FOR DETAIL 303 A, B

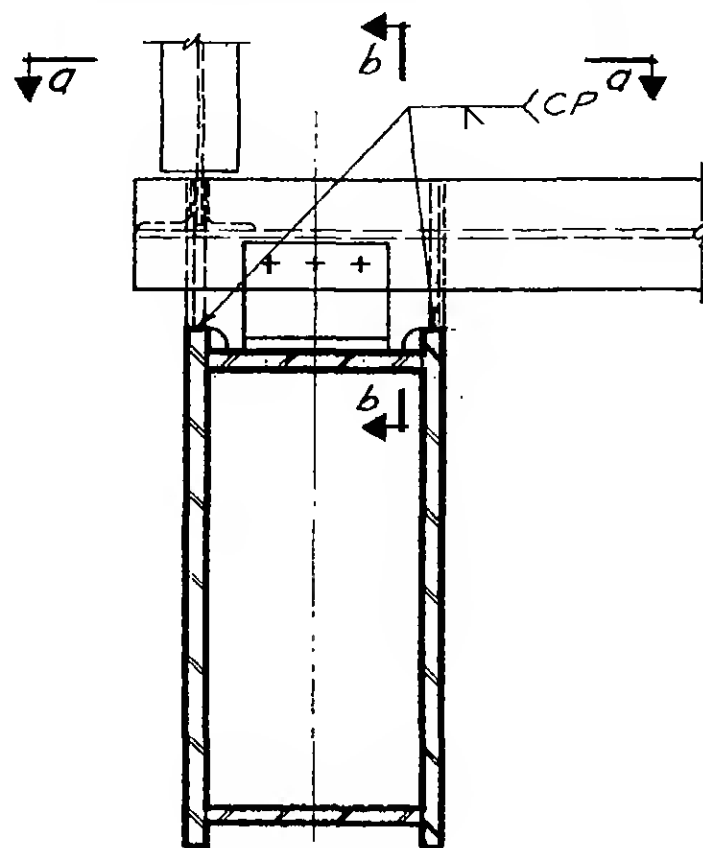
DATE 9-15-67

REVISIONS

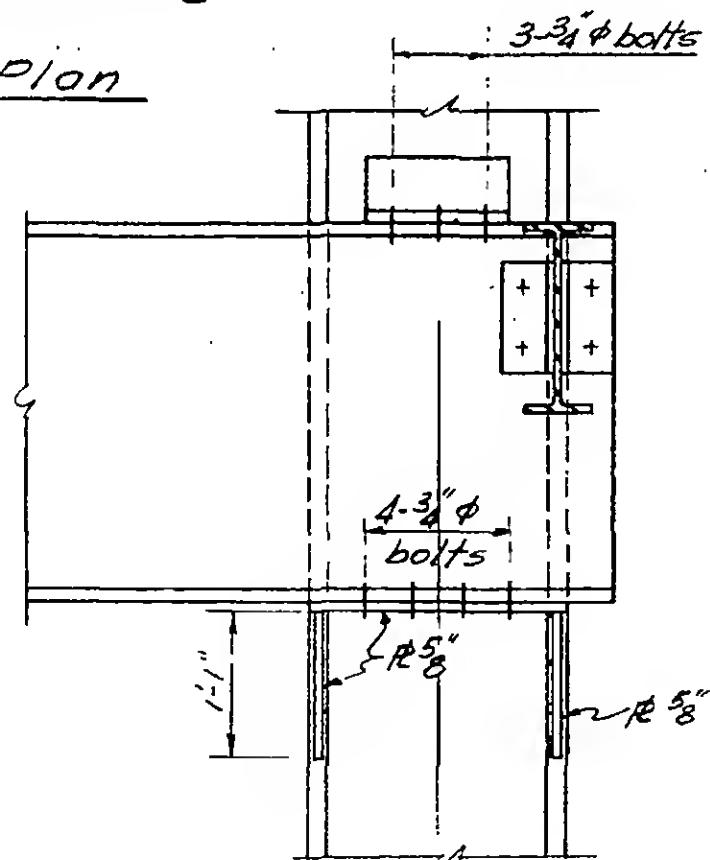
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6-AB1-110.1

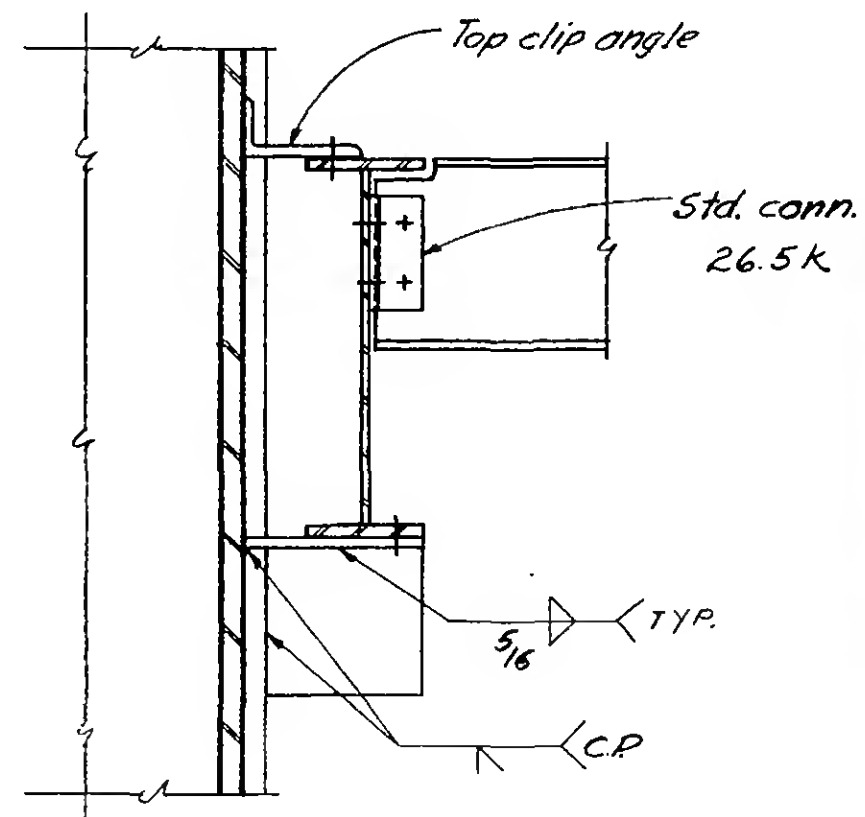
REVISIONS



Plan

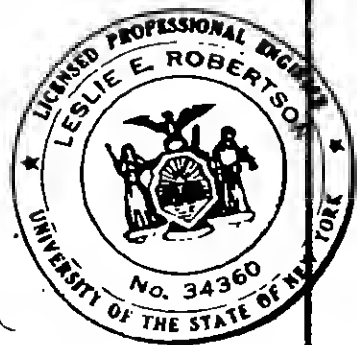


Section a-a



Section b-b

G-AB1-110.2

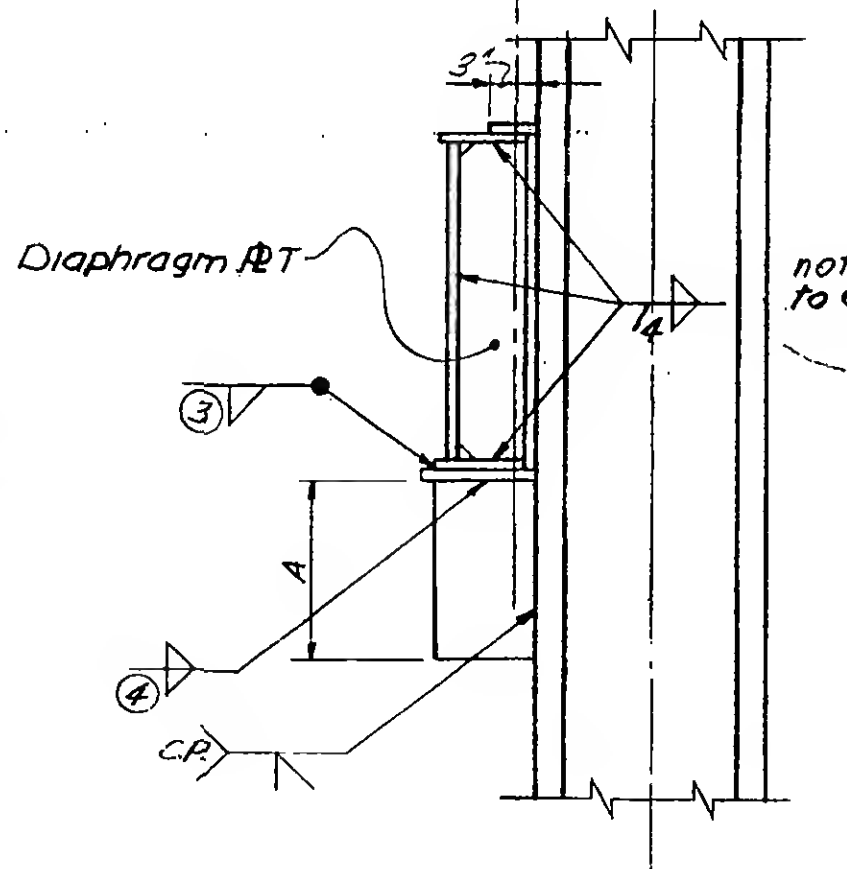
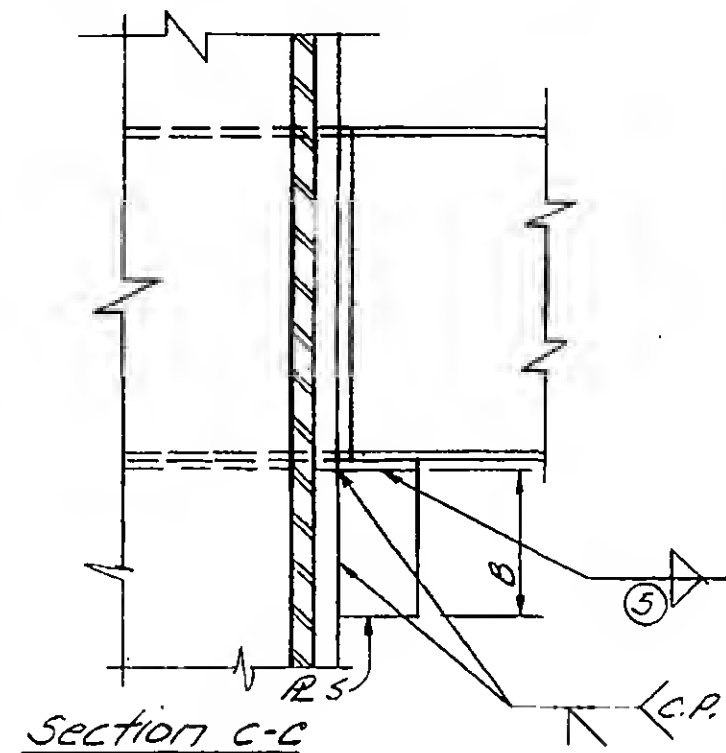
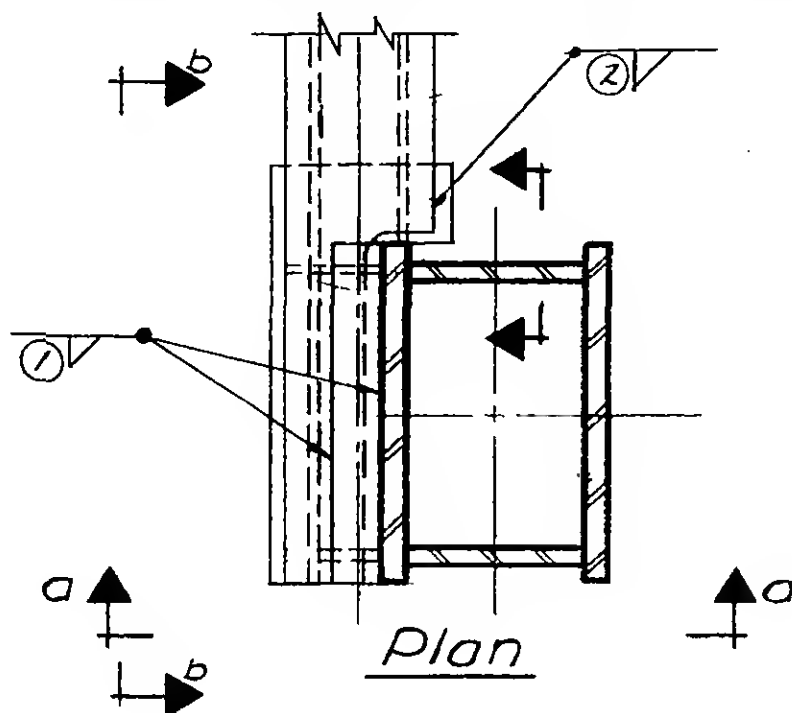


REVISIONS

9-15-67

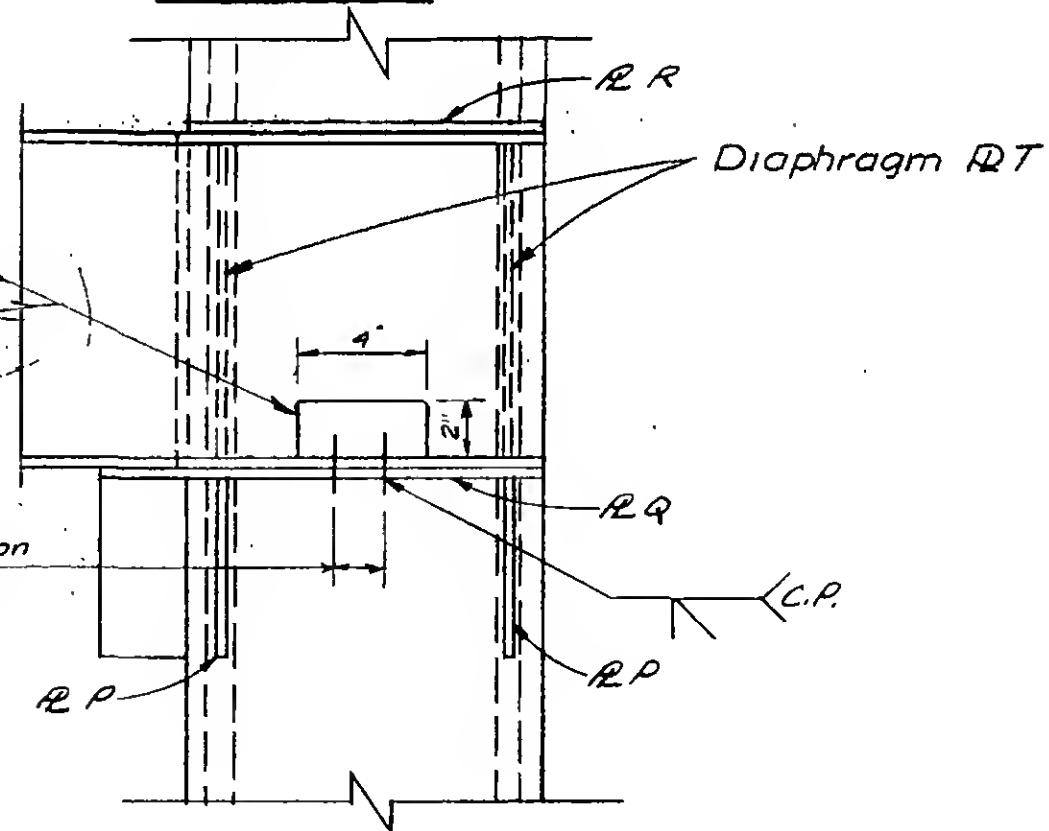
11-10-67

11-14-67

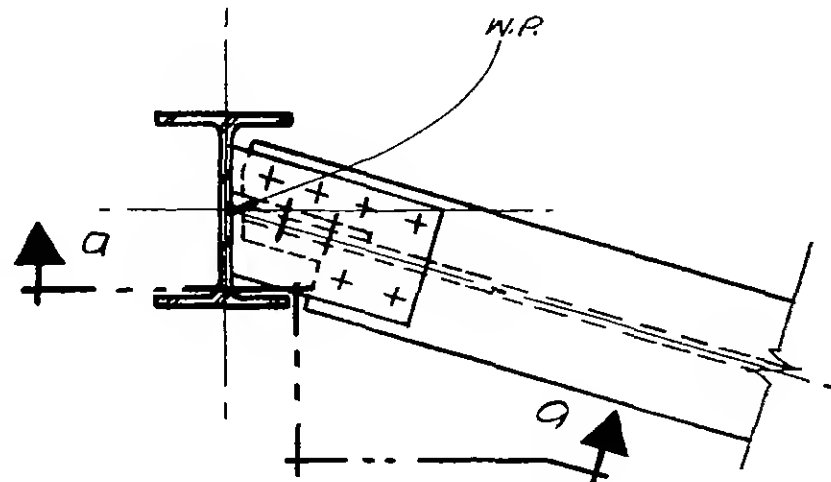


notch R for access to erection bolts

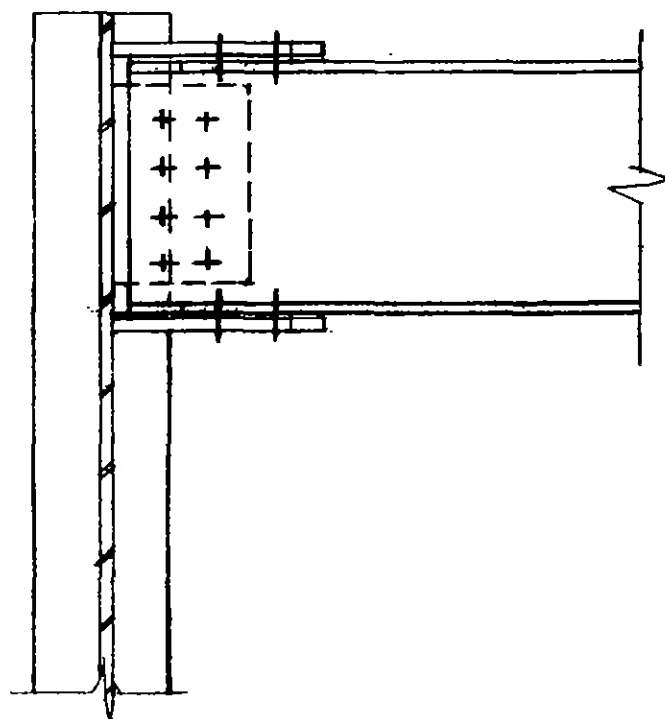
2-3/4" ϕ erection bolts



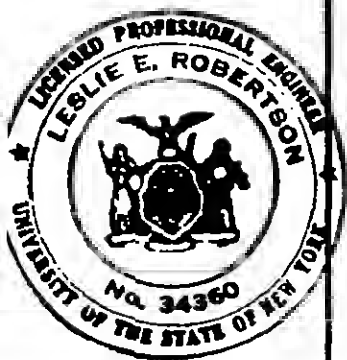
REVISIONS



PLAN



SECTION: a-a



PROJECT THE WORLD TRADE CENTER

TITLE CONNECTION DETAIL 306 A,B,C

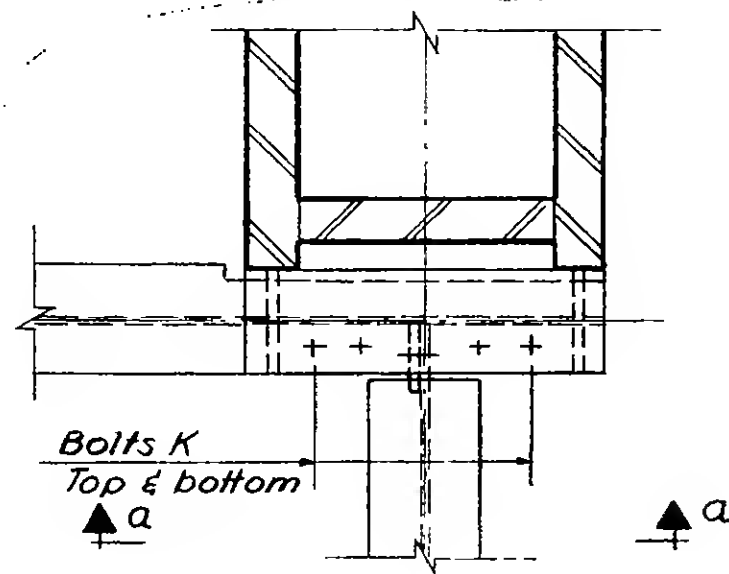
DATE 6-5-67

REVISIONS

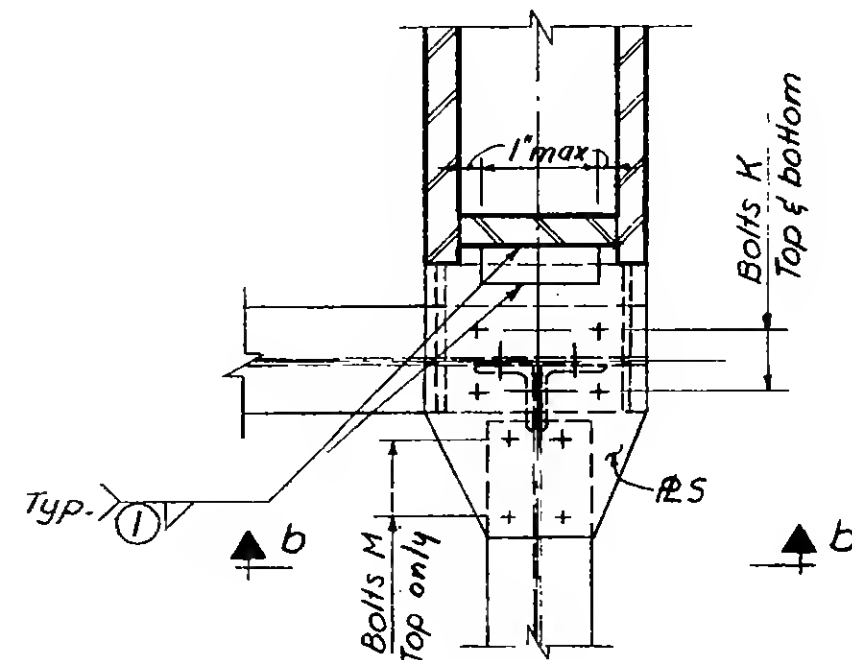
9-15-67

10-2-67

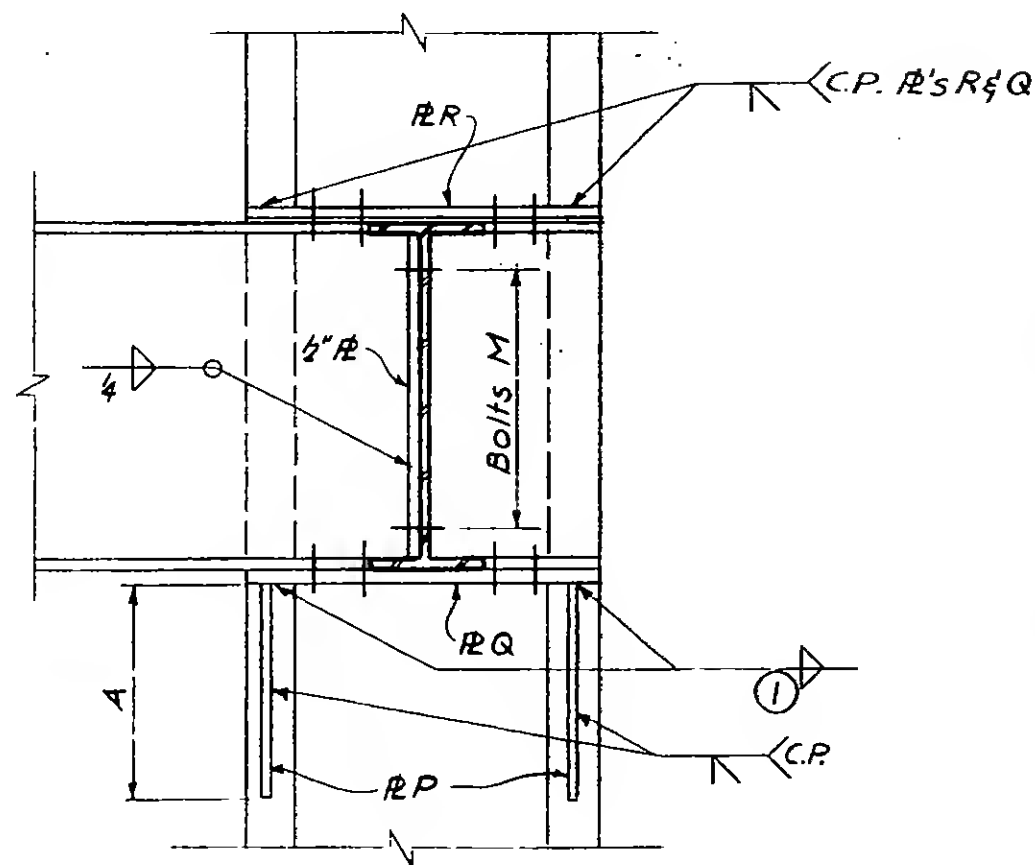
11-10-67



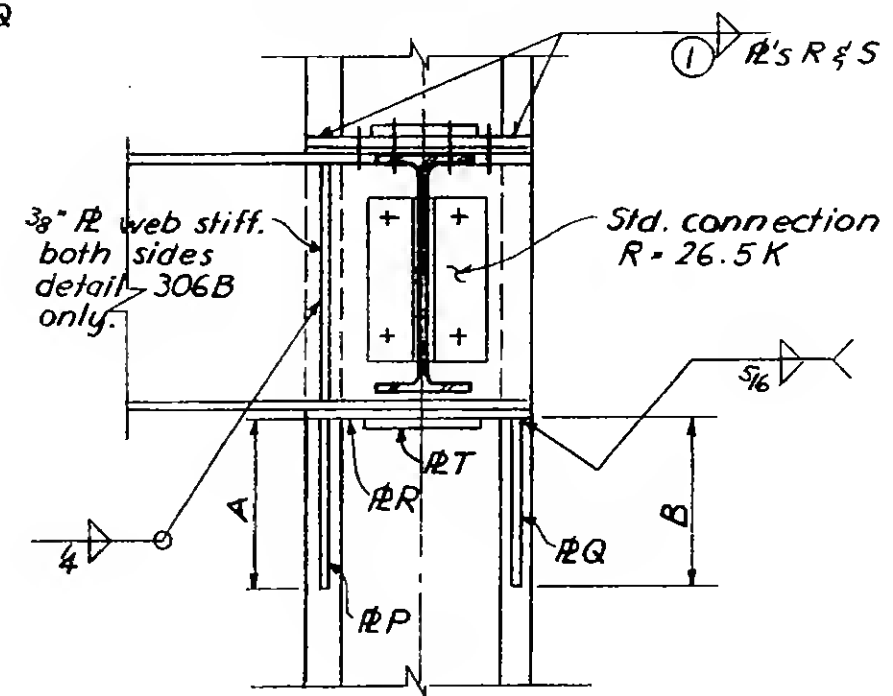
Plan
Detail 306 A



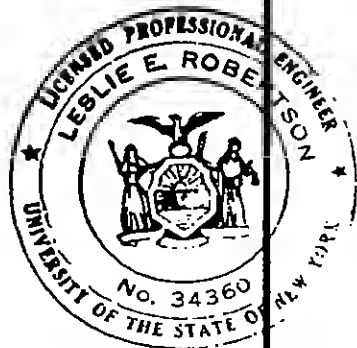
Plan
Detail 306 B & C



Section a-a



Section b-b



PROJECT THE WORLD TRADE CENTER

TITLE SCHEDULE FOR DETAIL 306 A, B, C, D

DATE 9-15-67

REVISIONS

10-2-67

10-31-67

11-10-67

REF. DWG. 6-ABI-113 6-ABI-113 6-ABI-113 6-ABI-113.2

306 A

306 B

306 C

306 D

PLATES

See dwg.

P

3/4"

3/4"

1/2"

Q

3/4"

—

1/2"

R

1/2"

3/4"

1/2"

S

—

1/2"

1/2"

T

—

3/8"

3/8"

DIMENSIONS

A

1'-0"

1'-2"

1'-0"

B

—

—

1'-0"

BOLTS

K

4 - 7/8" ϕ 4 - 3/4" ϕ 4 - 3/4" ϕ

L

—

—

—

M

8 - 3/4" ϕ 4 - 7/8" ϕ 4 - 7/8" ϕ

WELOS.

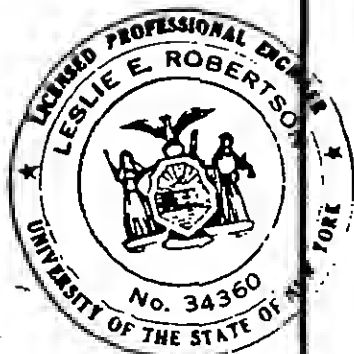
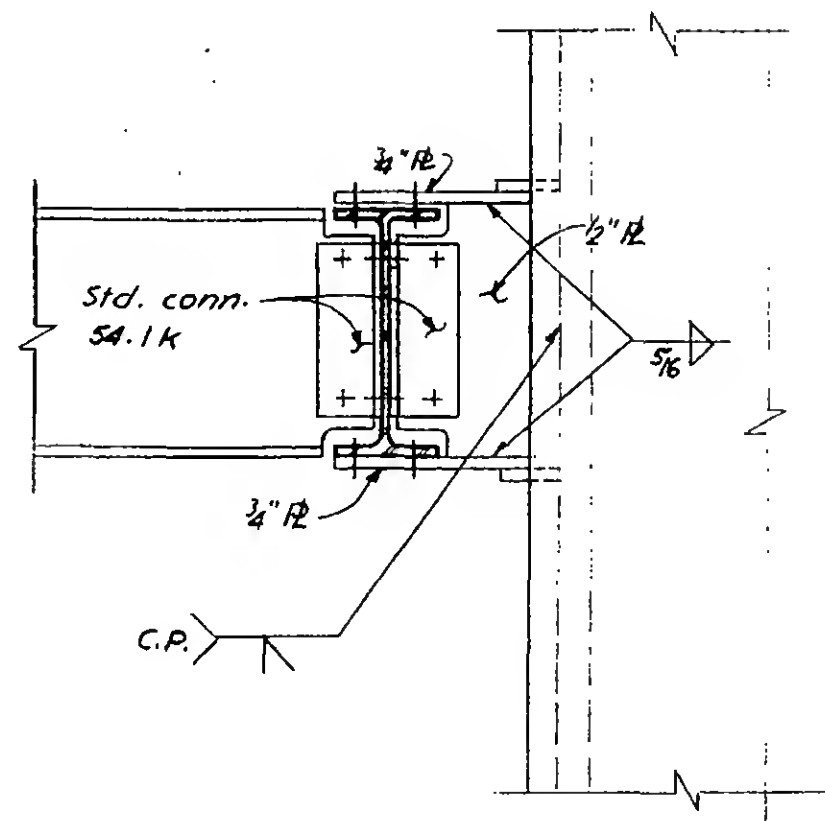
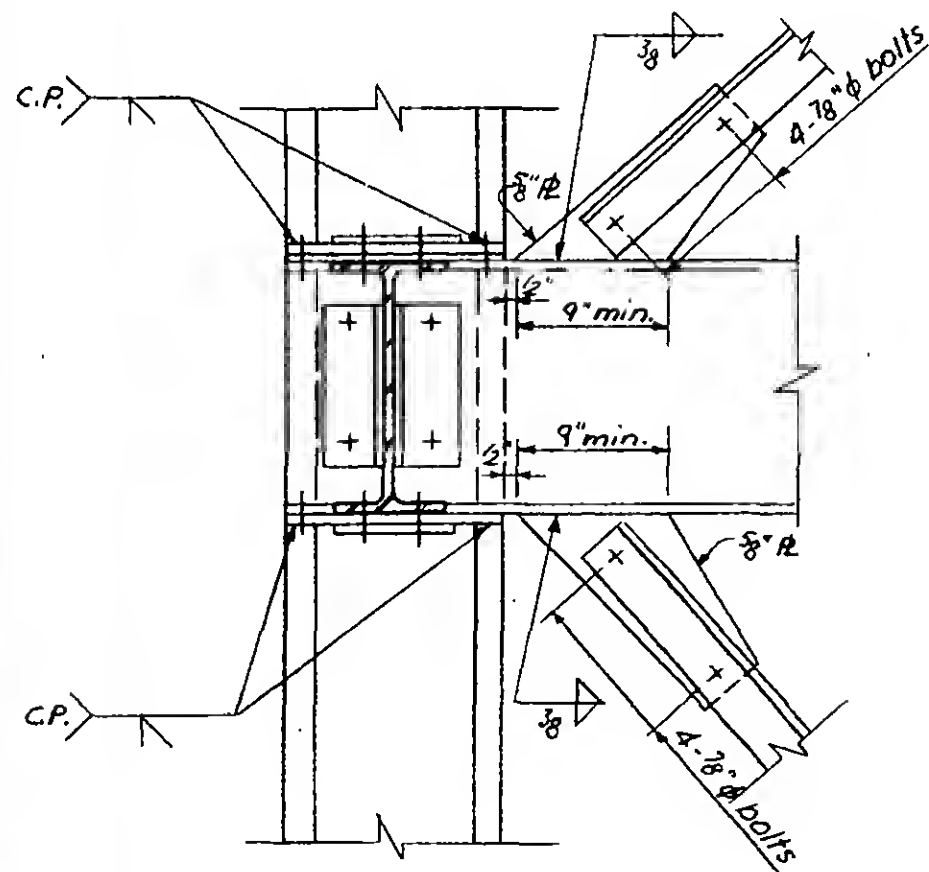
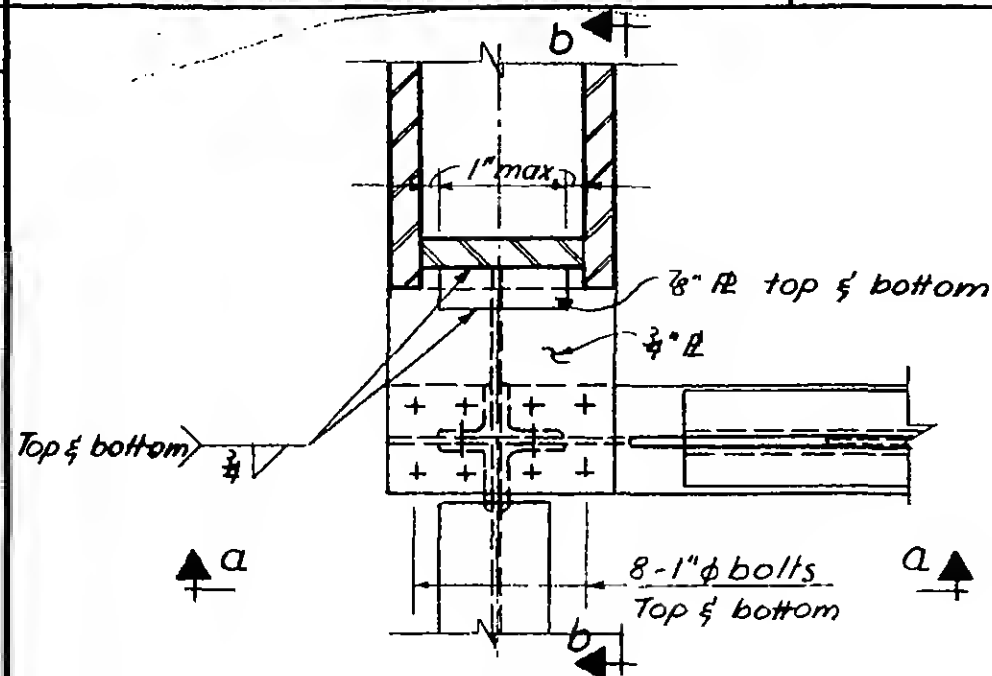
①

5/16

1/4

1/4

REVISIONS



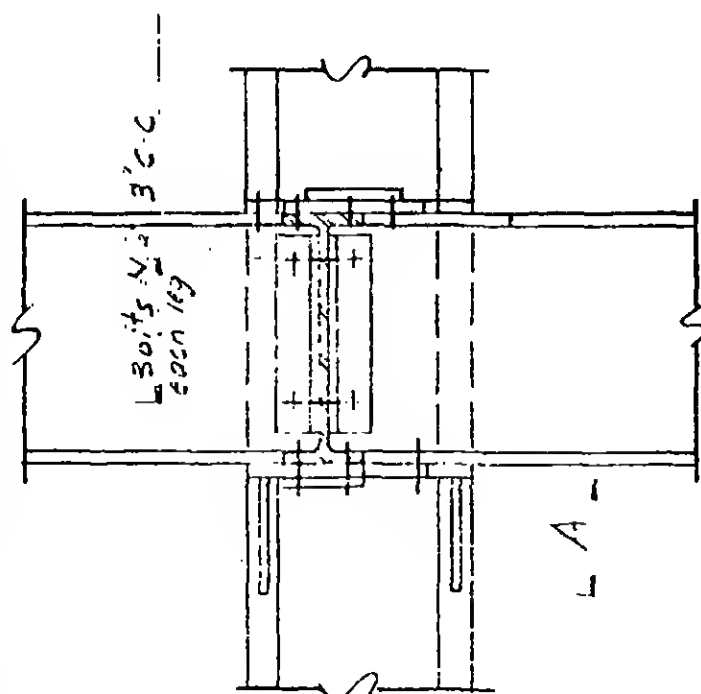
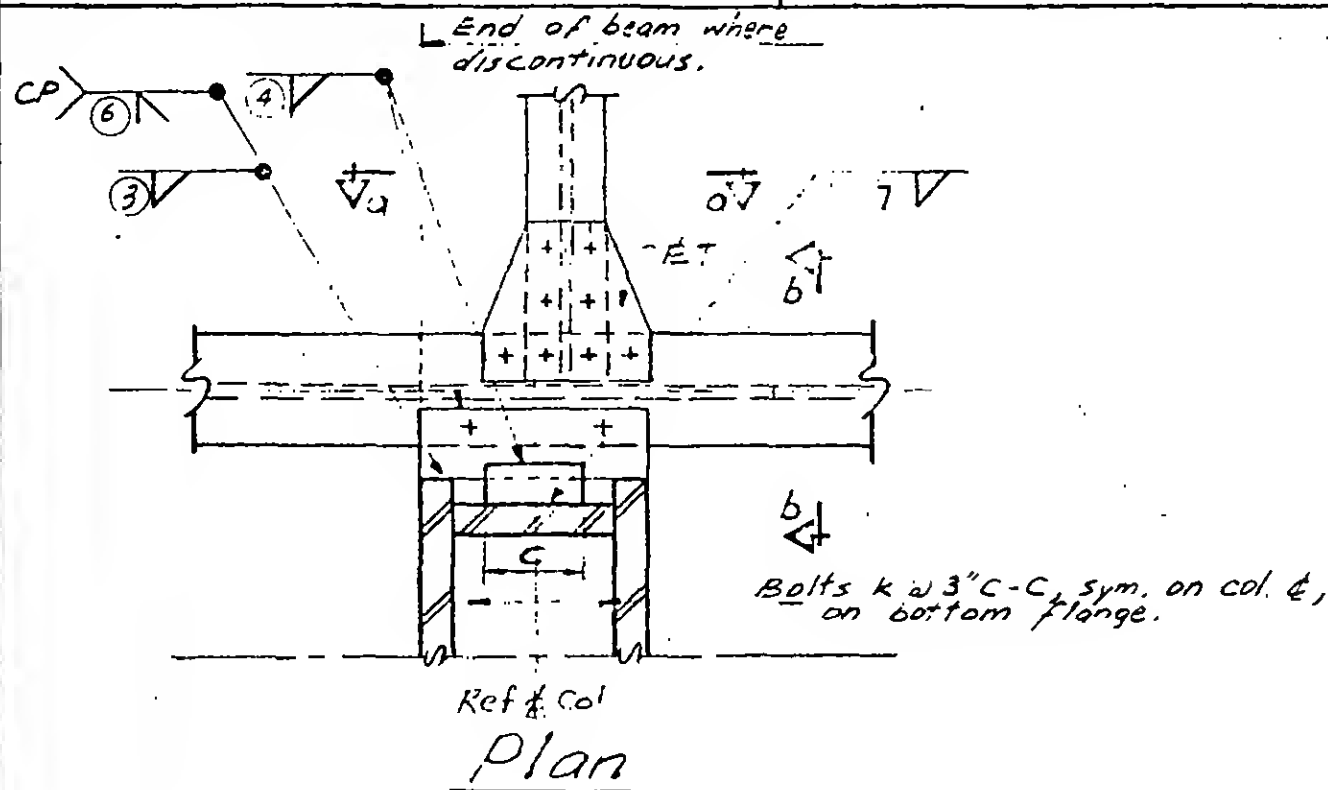
PROJECT THE WORLD TRADE CENTER

TITLE CONNECTION DETAIL 307 AB

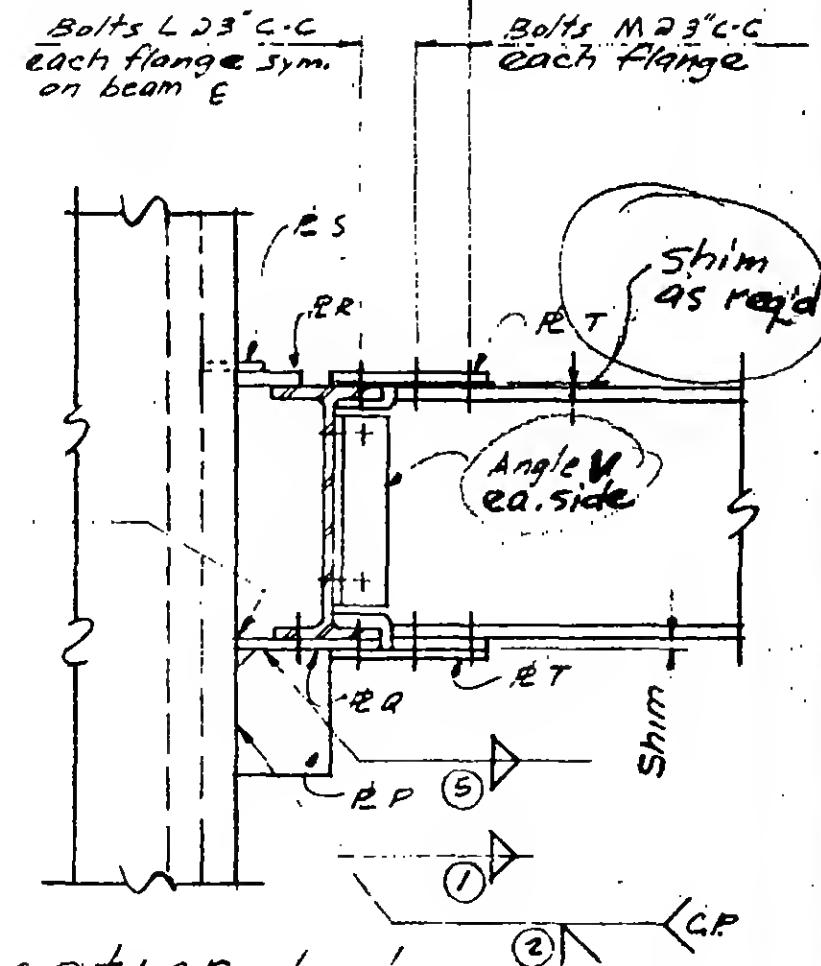
DATE 5-9-67

REVISIONS

7-5-67
7-28-67



Section O-O



Section b-b

PROJECT THE WORLD TRADE CENTER

TITLE SCHEDULE FOR DETAIL 307 A-B

DATE 7-25-67

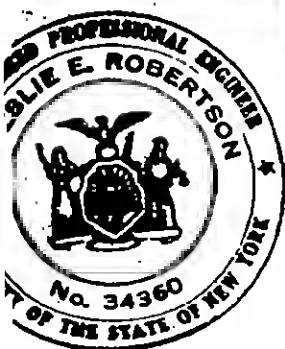
REVISIONS

28-67

8-5-67

REF. DWG.	G-AB1-114	G-AB1-114	G-AB1-114.2	G-AB1-114.2	G-AB1-114.2	G-AB1-114.2
	307 A	307 B	307 C	307 D	307 E	307 F, G
PLATES						
P	34"	2 1/4" x 1/2"	5/8"	5/8"	5/8"	1/2"
Q	34	7" x 1"	5/8"	5/8"	5/8"	1"
R	5/16	1 1/2" x 5/8"	5/16"	5/16"	5/16"	1"
S	—	2 1/4" x 3/8"	5/16"	5/16"	—	—
T	—	3/8"	—	—	—	—
U	—	—	5/16"	5/16"	—	—
ANGLES						
V	4 x 3 1/2 x 5/16 x 0'-9"	4 x 3 1/2 x 5/16 x 0'-9"	4 x 3 1/2 x 5/16	4 x 3 1/2 x 5/16	4 x 3 1/2 x 5/16	4 x 3 1/2 x 5/16
DIMENSIONS						
A	1'-0"	1'-4"	1'-2"	1'-2"	1'-4"	1'-2"
C	—	0'-8"	—	—	—	—
BOLTS						
K	4-3/4"φ(A325)	—	—	—	—	—
L	—	6-1/8"φ(A325)	2-3/4"φ	2-3/4"φ	2-3/4"φ	12-1"φ
M	—	6-1/8"φ(A325)	4-7/8"φ	4-7/8"φ	—	4-7/8"φ
N	3-3/4"φ(A325)	3-3/4"φ(A325)	3-3/4"φ	3-3/4"φ	3-3/4"φ	3-3/4"φ
WELDS						
①	—	—	5/16	5/16	—	—
②	C.P.	C.P.	5/16	5/16	—	—
③	—	3/8	5/16	5/16	—	—
④	5/16	—	5/16	5/16	5/16	5/16
⑤	5/16	3/8	5/16	5/16	—	—
⑥	C.P.	C.P.	—	—	—	—
⑦	1/2	1/2	—	—	—	—

G-AB1-114.1



PROJECT THE WORLD TRADE CENTER

TITLE CONNECTION DETAIL 307 C, D, E, F, G, H & I

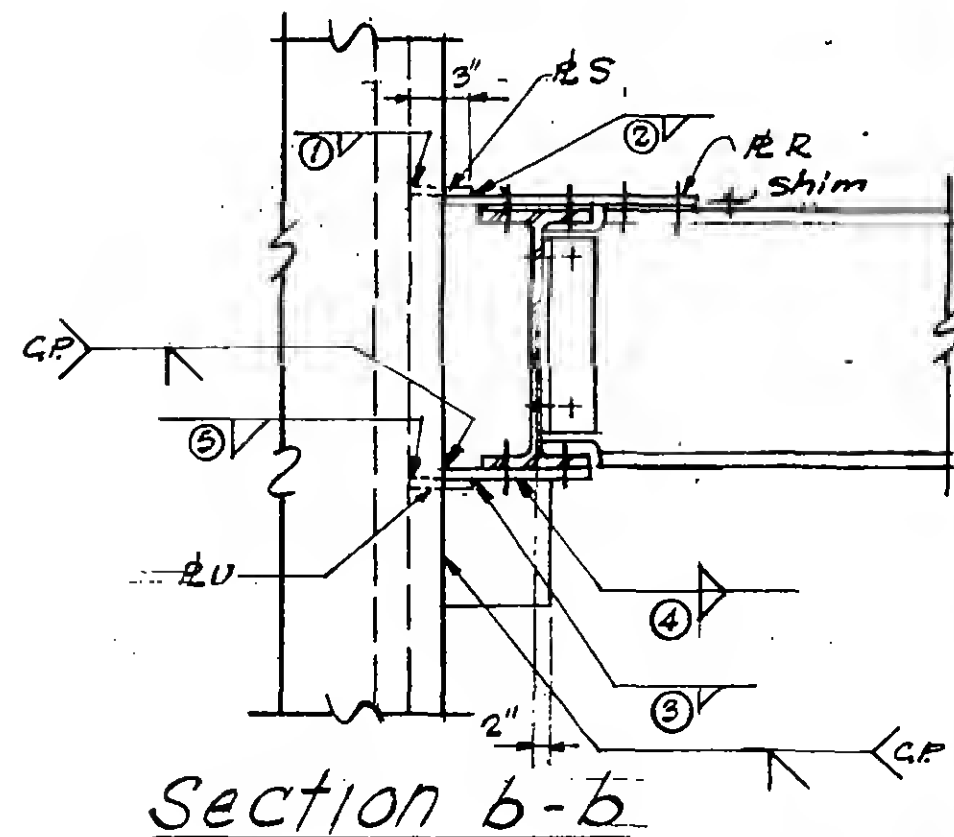
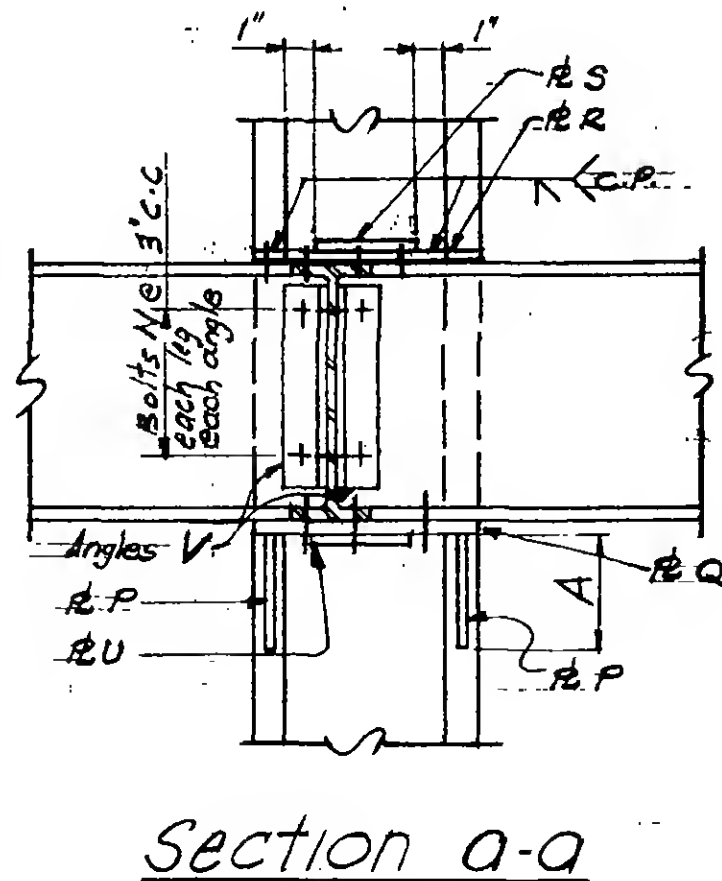
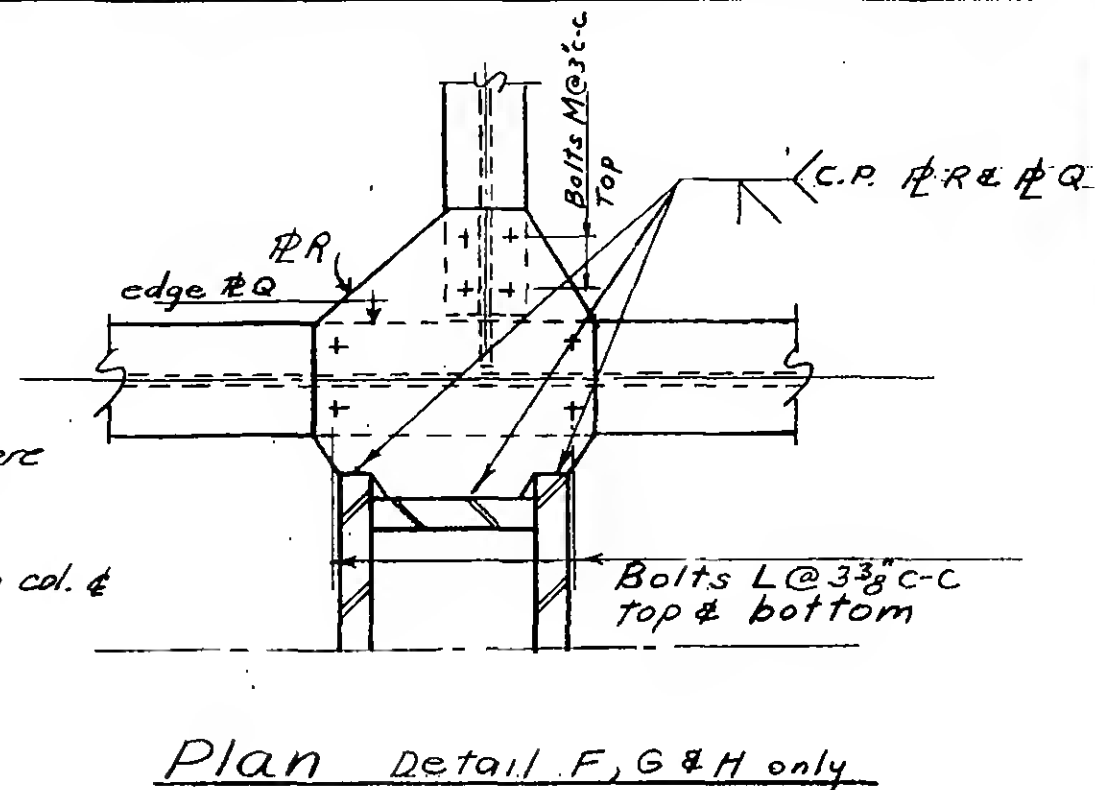
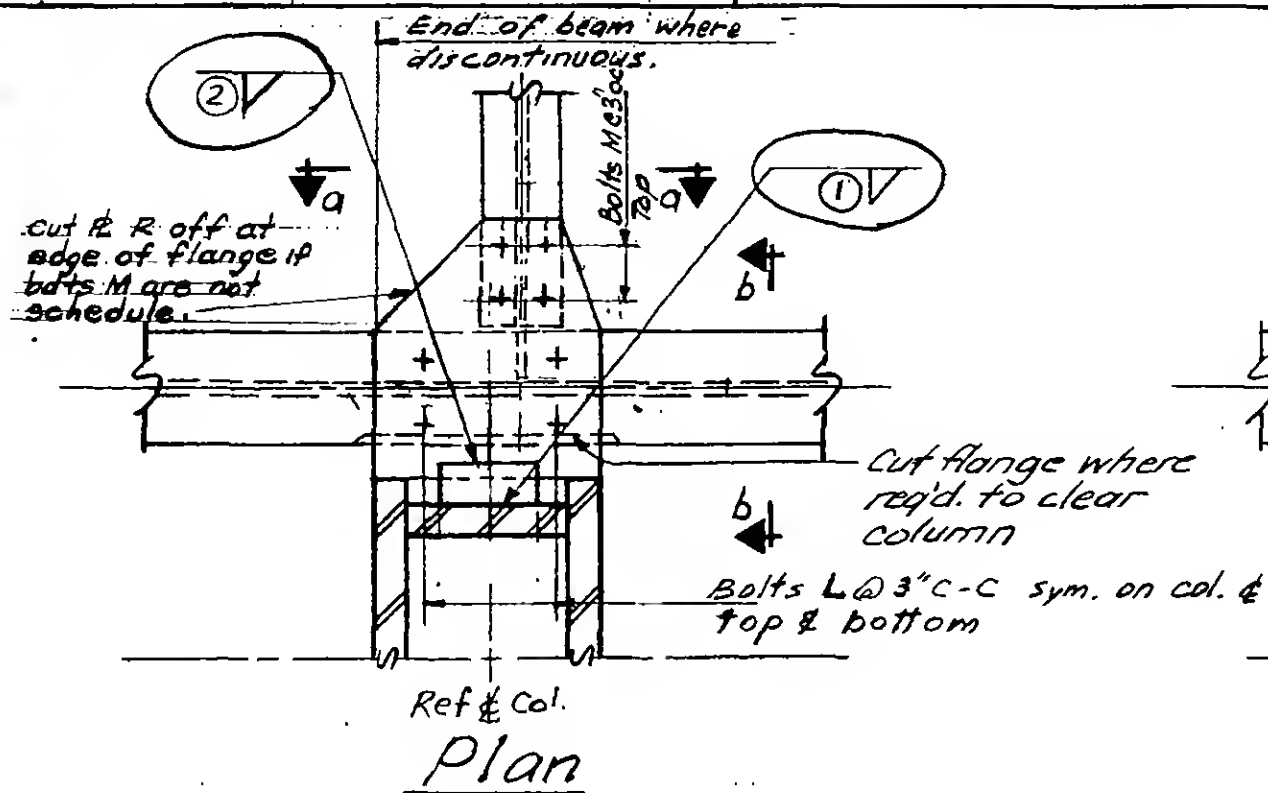
DATE 7-28-67

REVISIONS

8-5-67

9-15-67

11-10-67



PROJECT

THE WORLD TRADE CENTER

TITLE

SCHEDULE FOR DETAIL 307H & I

DATE

8-5-67

REVISIONS

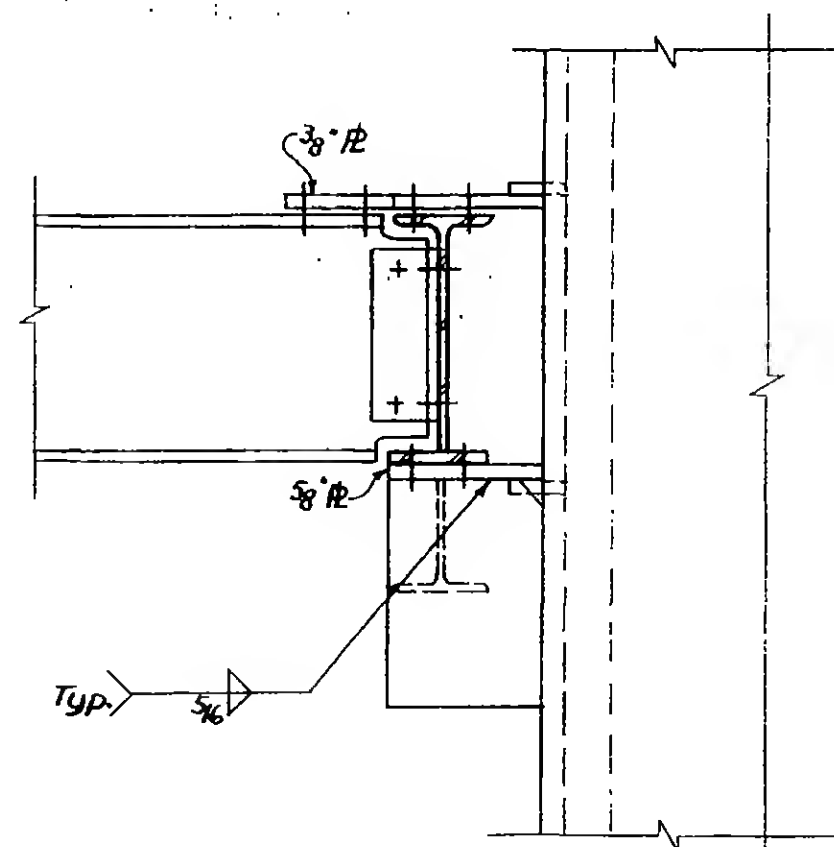
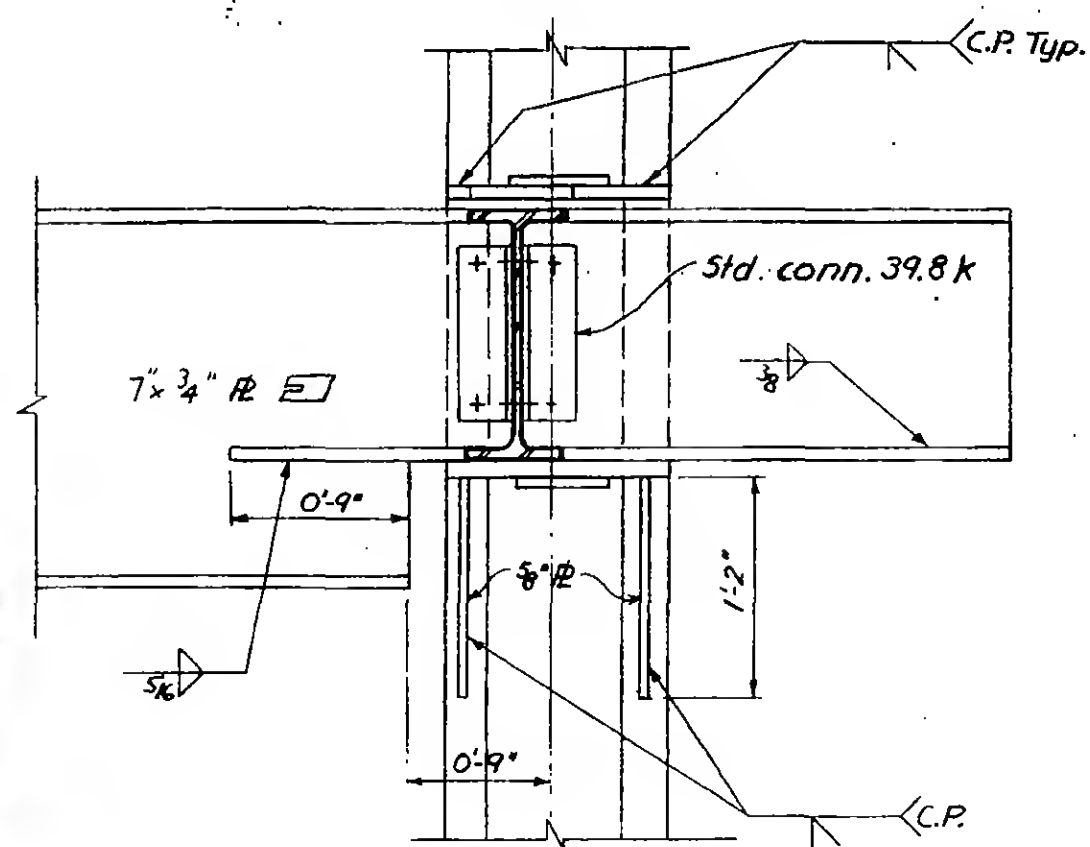
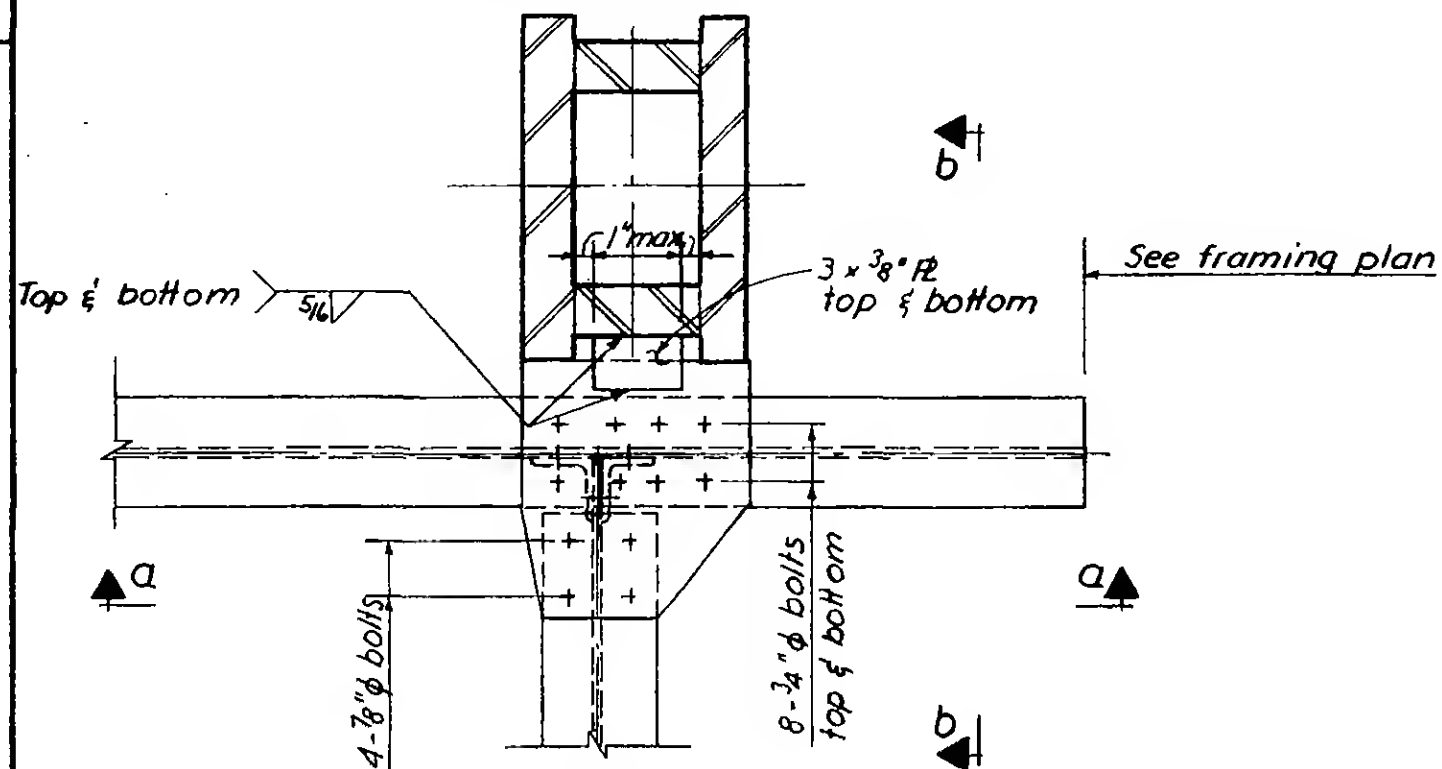
9-15-67

11-10-67

	307H	307I				
PLATES						
P	1/2"	1/2"				
Q	1"	1/2"				
R	1"	1/2"				
S	—	3/8"				
T	—	—				
U	—	3/8"				
ANGLES						
V	4x3 1/2 x 5/16	4x3 1/2 x 5/16				
DIMENSIONS						
A	1 1/2"	0-10"				
C	—	—				
BOLTS						
K	—	—				
L	12-1"φ	7-3/4"φ (one row)				
M	4-7/8"φ	4-7/8"φ				
N	3-1"φ	3-3/4"φ				
WELDS						
①	—	5/16				
②	—	5/16				
③	—	5/16				
④	5/16	—				
⑤	—	5/16				
⑥	—	—				
⑦	—	—				

PROJECT THE WORLD TRADE CENTERTITLE CONNECTION DETAIL 307 JDATE 12-21-67

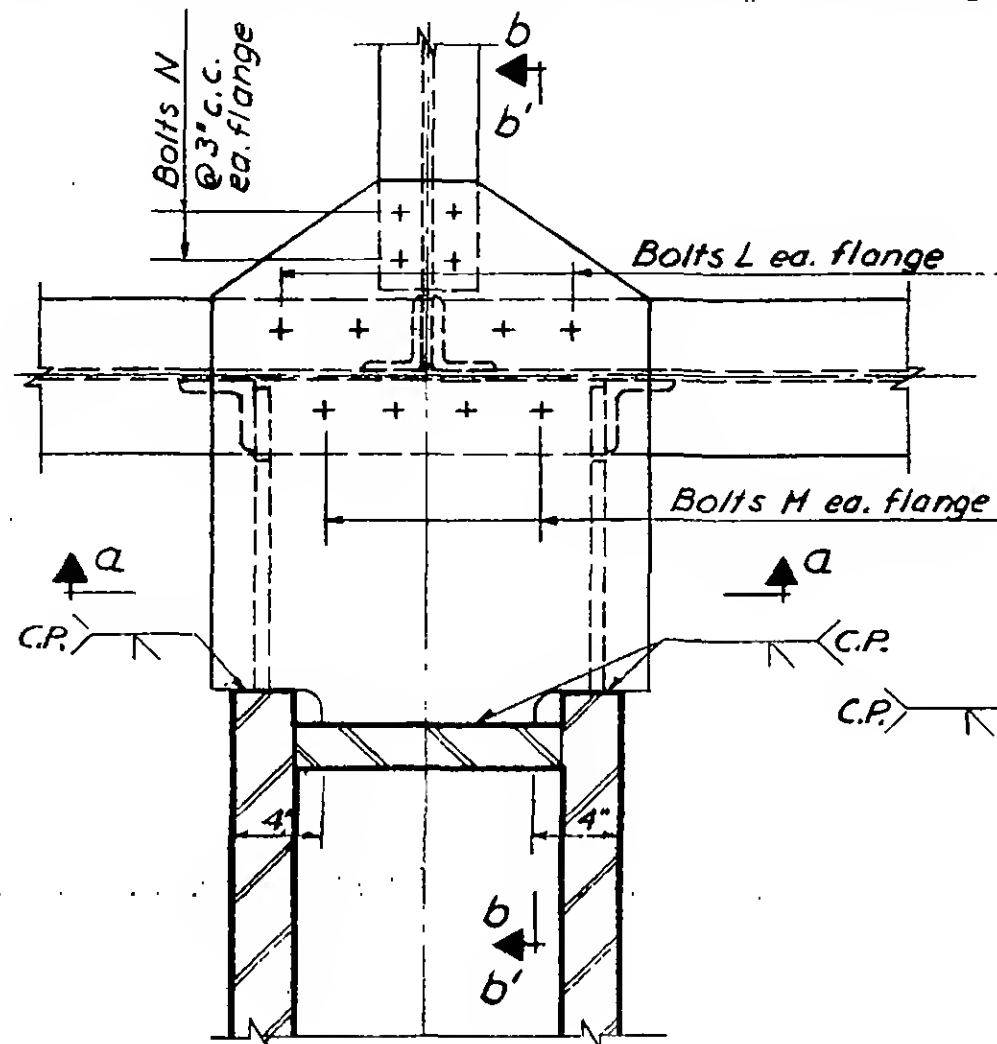
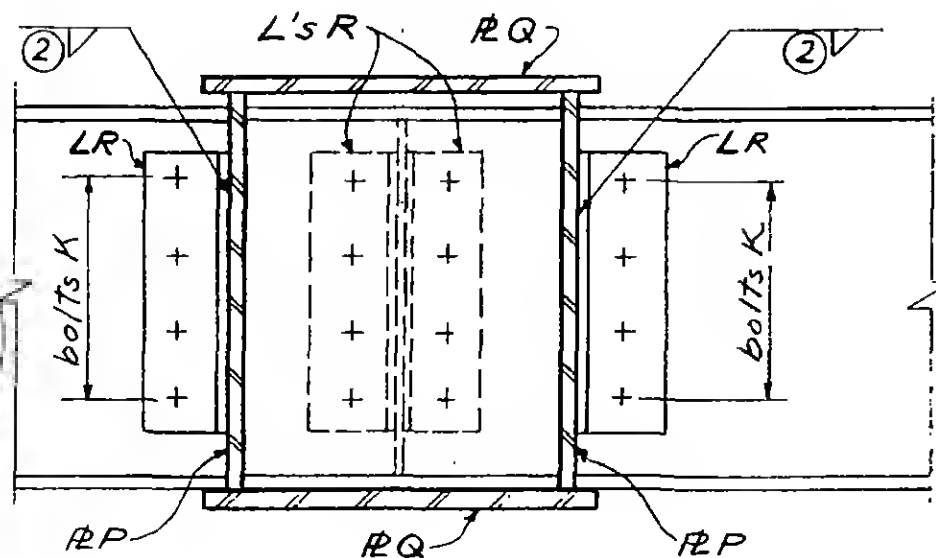
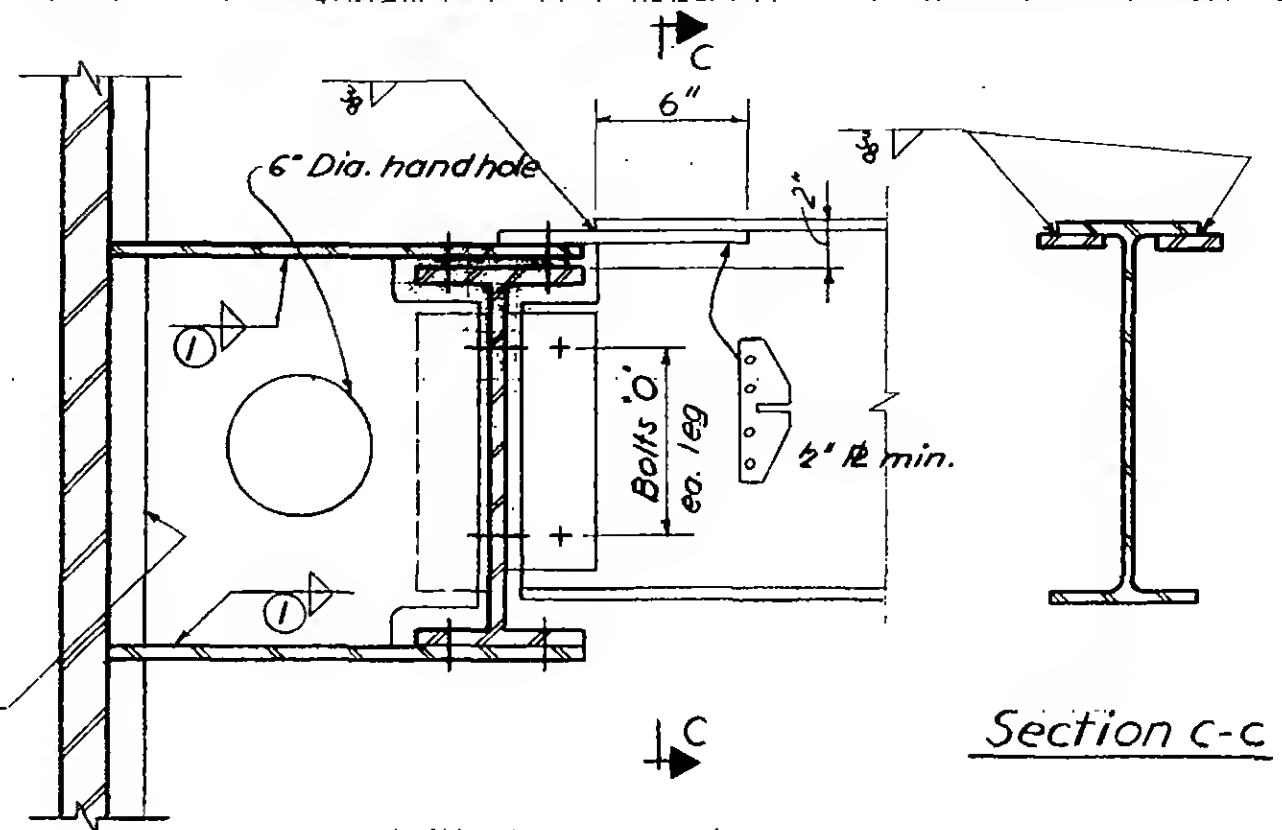
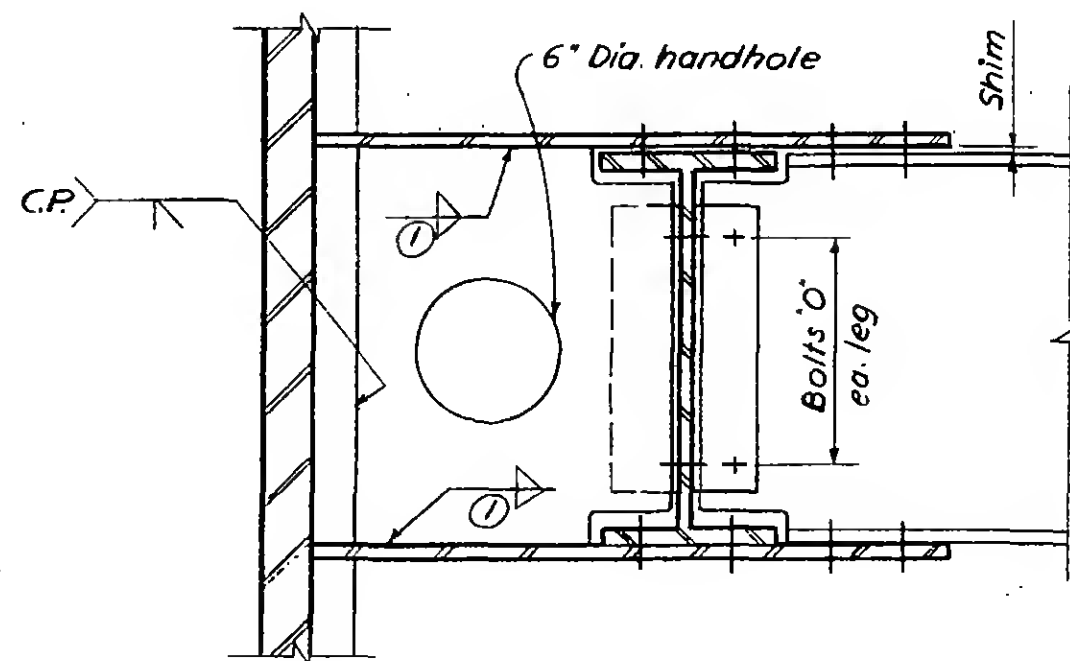
REVISIONS



PROJECT THE WORLD TRADE CENTERTITLE CONNECTION DETAIL 308 ADATE 6-5-67

REVISIONS

9-15-67
11-10-67

PlanSection a-aSection b'-b'
for beams at different elevationsSection b-b
Beams at same elevation

6-ABI-115



SKILLING - HELLE - CHRISTIANSEN - ROBERTSON

Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER

TITLE SCHEDULE FOR DETAIL 308.A

DATE 9-15-67

REVISIONS

308A

PLATES

P 3/4"
Q 5/8"

ANGLES

R 4x3 1/2 x 3/8 x 0-11 1/2"

BOLTS

K 4-7/8" ϕ
L 5-1/8" ϕ (A-490)
M 4-1/8" ϕ (A490)
N 4-3/4" ϕ
O 4-3/4" ϕ

WELDS

① 5/16
② 5/16



6-ABI-115.1

WORTHINGTON, SKILLING, HELLE & JACKSON

Civil & Structural Engineers

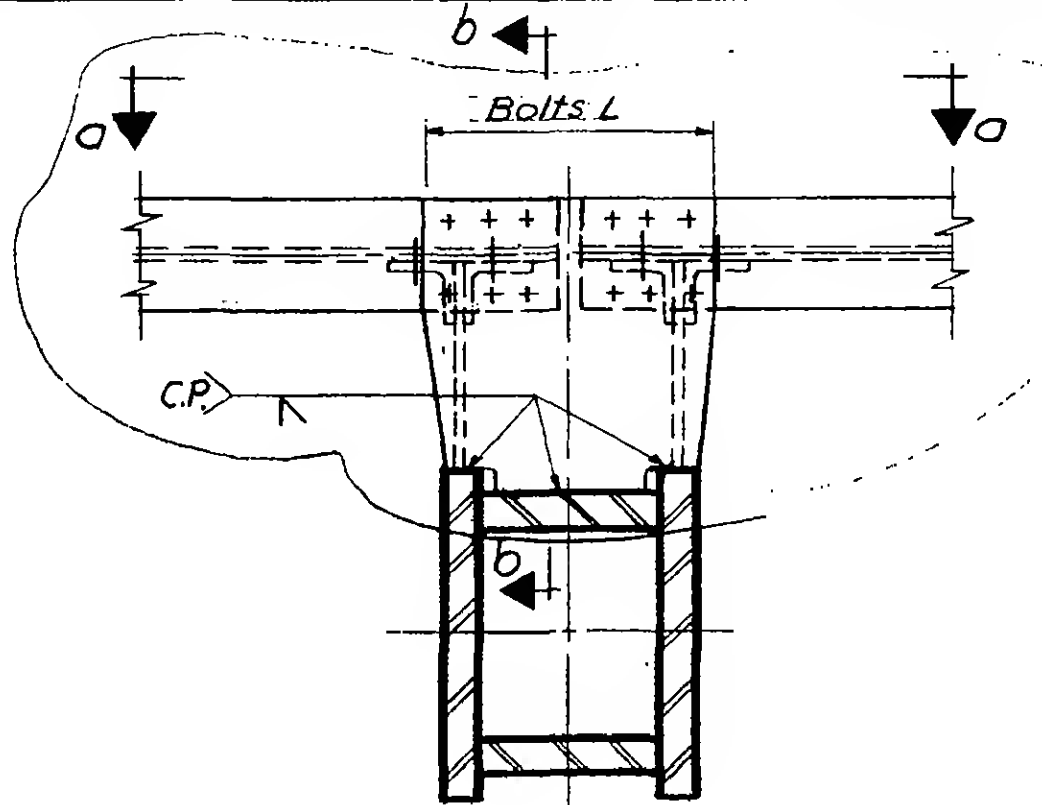
PROJECT THE WORLD TRADE CENTER

TITLE CONNECTION DETAIL 309 A

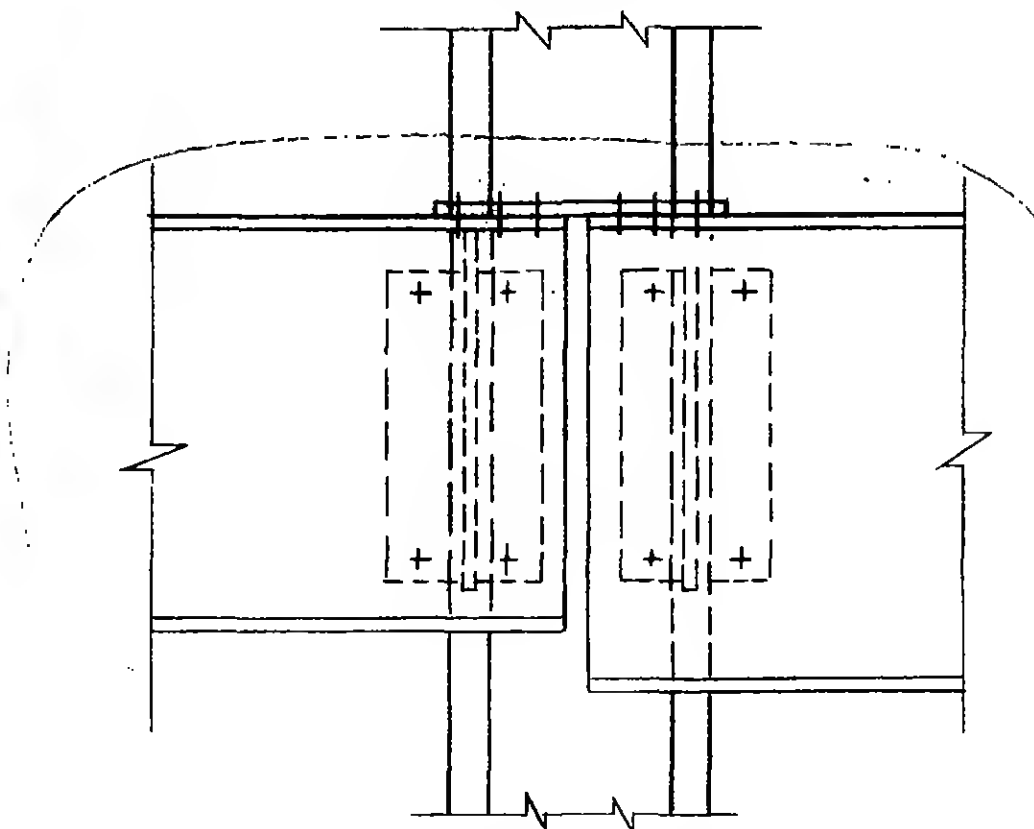
DATE 6-5-67

REVISIONS

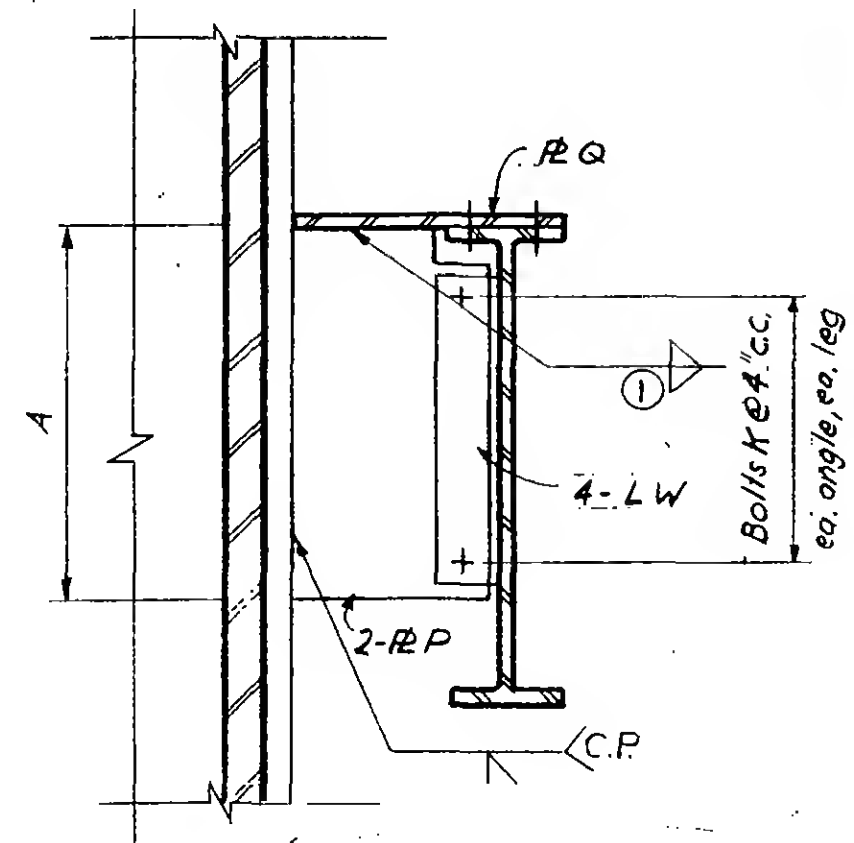
9-15-67



Plan

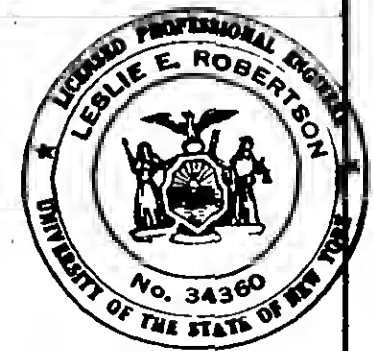


Section a-a



Section b-b

6-AB1-116



Structural & Civil Engineers

TITLE SCHEDULE FOR DETAIL 309.A

DATE 9-15-67

REVISIONS

PLATES

P

34"

Q

/

ANGLES

W

$$4 \times 3\frac{1}{2} \times 5\frac{1}{6}$$

BOLTS

K

4 - 3/4" Φ

2

12-1'8" Φ (A490)

DIMENSIONS

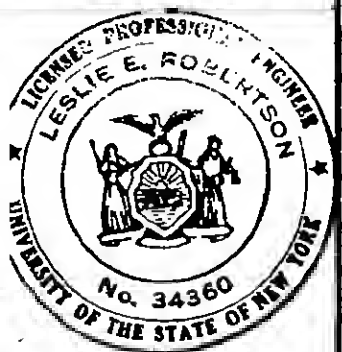
A

1'-8"

WELDS

①

38



6-ABI-116.1

WORTHINGTON, SKILLING, HELLE & JACKSON

Civil & Structural Engineers

PROJECT THE WORLD TRADE CENTER

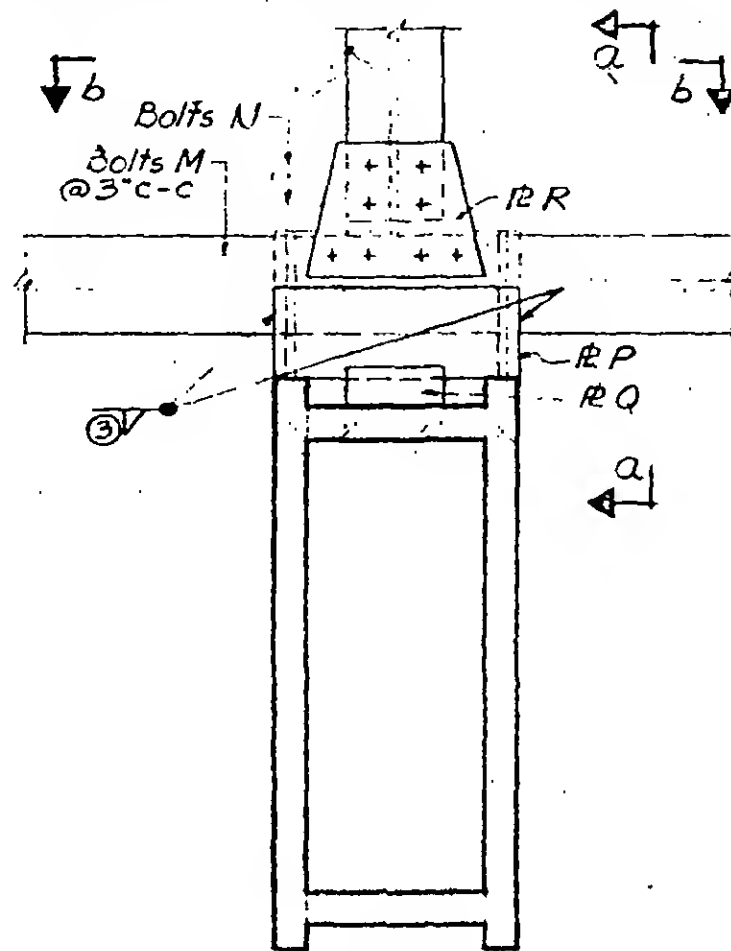
TITLE CONNECTION DETAIL 310 A

DATE 5-1-67

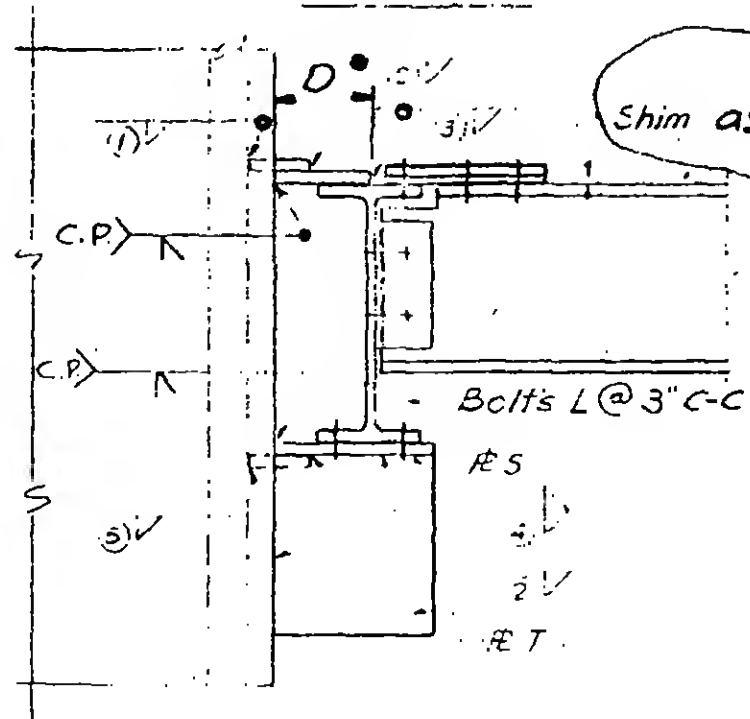
REVISIONS

6-30-67

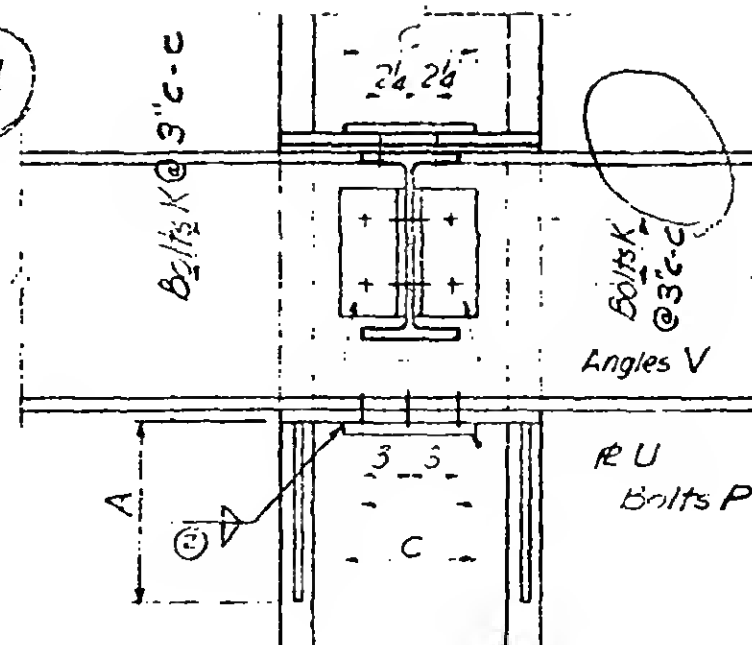
7-28-67



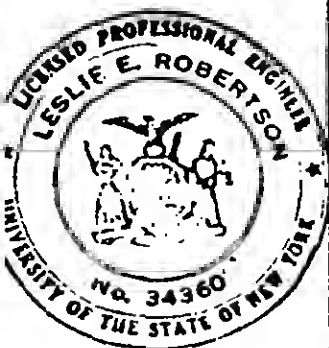
PLAN



SECTION a-a



SECTION b-b



6-ABI-117

SKILLING - HELLE - CHRISTIANSEN - ROBERTSON

Structural & Civil Engineers

PROJECT

THE WORLD TRADE CENTER

TITLE

SCHEDULE FOR DETAIL 310 A - (F)

DATE

6-30-67

REVISIONS

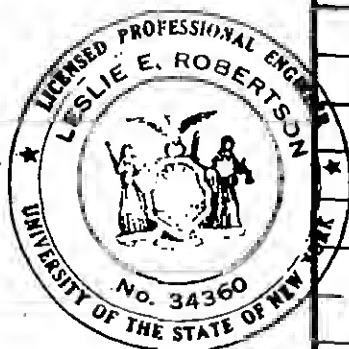
7-28-67

10-2-67

12-21-67

REF. DWGS.	6-ABI-117	6-ABI-117.2	6-ABI-117.2	6-ABI-117.2	6-ABI-117.2	6-ABI-117.2
310 A	310 B	310 C	310 D	310 E	310 F	
PLATES						
P	8" x 3/4" x 1'-2"	—	—	—	—	—
Q	4" x 1/2" x 0'-8"	5/16"	1/2"	—	1/2"	3/4"
R	1/2"	5/16"	3/8"	5/16"	5/8"	1"
S	12 1/2" x 3/4" x 1'-2"	5/8"	3/4"	3/4"	5/8"	5/8"
T	12 1/2" x 5/8"	8" x 5/8"	8" x 3/4"	8" x 3/4"	8" x 5/8"	8" x 1/2"
U	4" x 1/2" x 0'-8"	5/16"	3/8"	—	1/2"	1/2"
ANGLES						
V	4 x 3 1/2 x 5/16 x 0'-8 1/2"	4 x 3 1/2 x 5/16	4 x 3 1/2 x 5/16	4 x 3 1/2 x 5/16	4 x 3 1/2 x 5/16	4 x 3 1/2 x 5/16
DIMENSIONS						
A	12"	1'-2"	1'-2"	1'-2"	1'-4"	1'-2"
C	8"	—	—	—	—	—
D	8"	—	—	—	—	—
BOLTS						
K	2 - 3/4" ϕ (A325)	3 - 3/4" ϕ	3 - 3/4" ϕ	3 - 3/4" ϕ	3 - 3/4" ϕ	3 - 3/4" ϕ
L	2 - 3/4" ϕ (A325)	3 - 3/4" ϕ	3 - 3/4" ϕ	3 - 3/4" ϕ	3 - 3/4" ϕ	3 - 3/4" ϕ
M	4 - 7/8" ϕ (A325)	—	—	—	—	—
N	4 - 7/8" ϕ (A325)	4 - 7/8" ϕ	6 - 7/8" ϕ	—	4 - 3/4" ϕ	4 - 1" ϕ
P	6 - 3/4" ϕ (A325)	8 - 3/4" ϕ	8 - 3/4" ϕ	4 - 3/4" ϕ	4 - 3/4" ϕ	4 - 3/4" ϕ
WELDS						
①	1/2	5/16	1/2	—	7/16	11/16
②	7/16	5/16	1/2	—	7/16	11/16
③	3/8	5/16	5/16	—	7/16	5/16
④	1/2	5/16	5/16	5/16	3/8	3/8
⑤	1/2	5/16	3/8	—	7/16	5/16

6-ABI-117.1



WORTHINGTON, SKILLING, HELLE & JACKSON

Civil & Structural Engineers

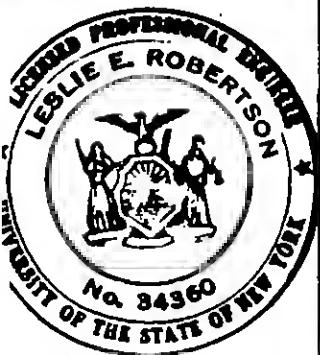
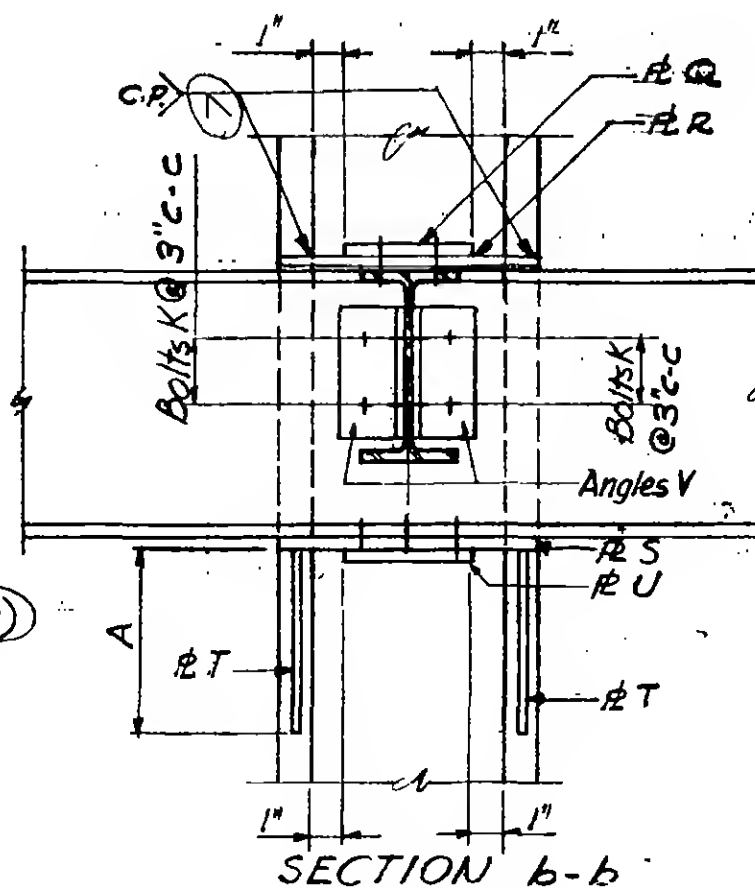
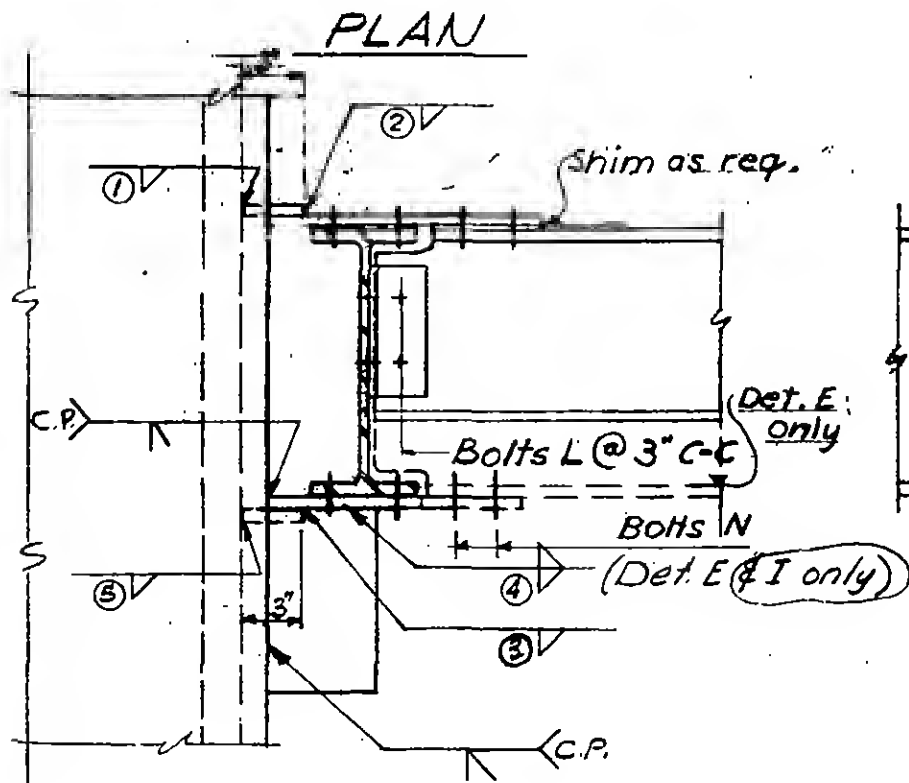
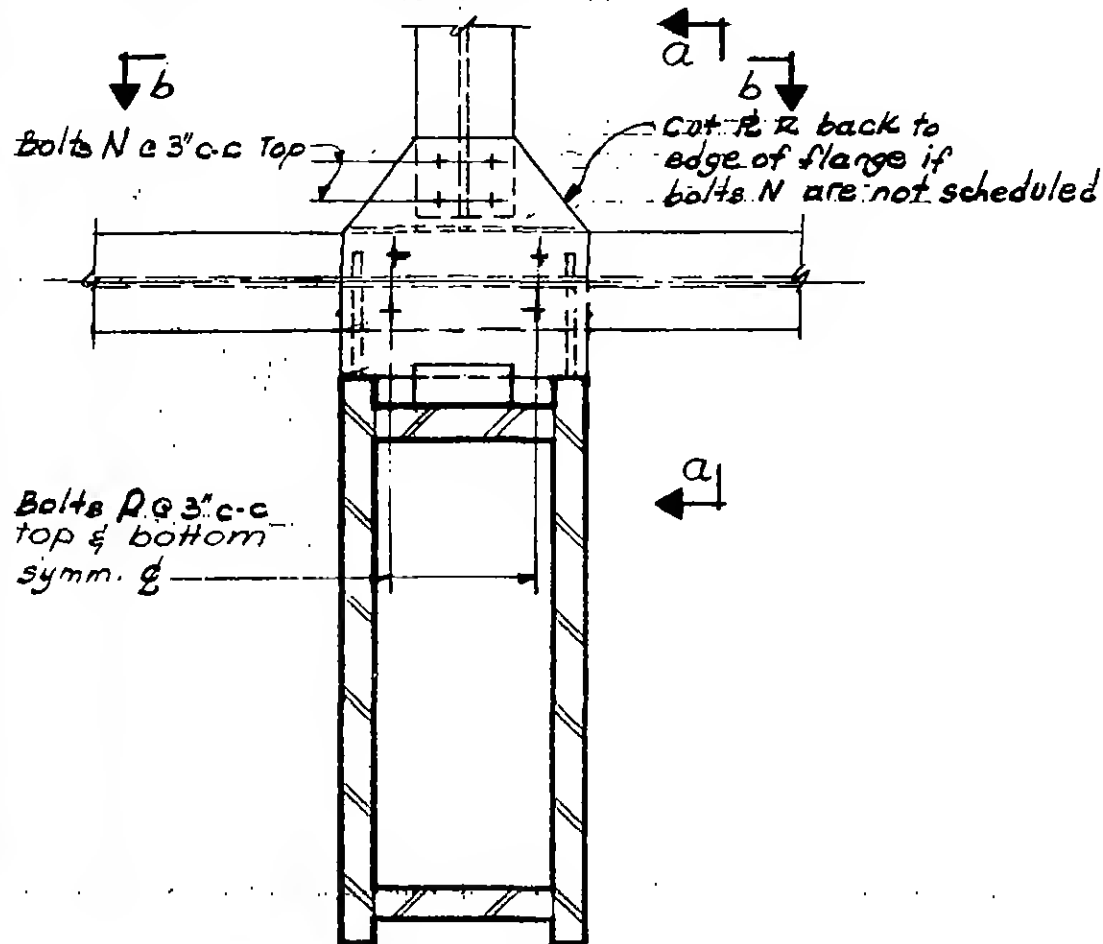
PROJECT THE WORLD TRADE CENTER

TITLE CONNECTION DETAIL 310 B, C, D, E, F, G, I

DATE 7-28-67

REVISIONS

10-2-67
2-9-68



6-ABI-1172

PROJECT THE WORLD TRADE CENTER

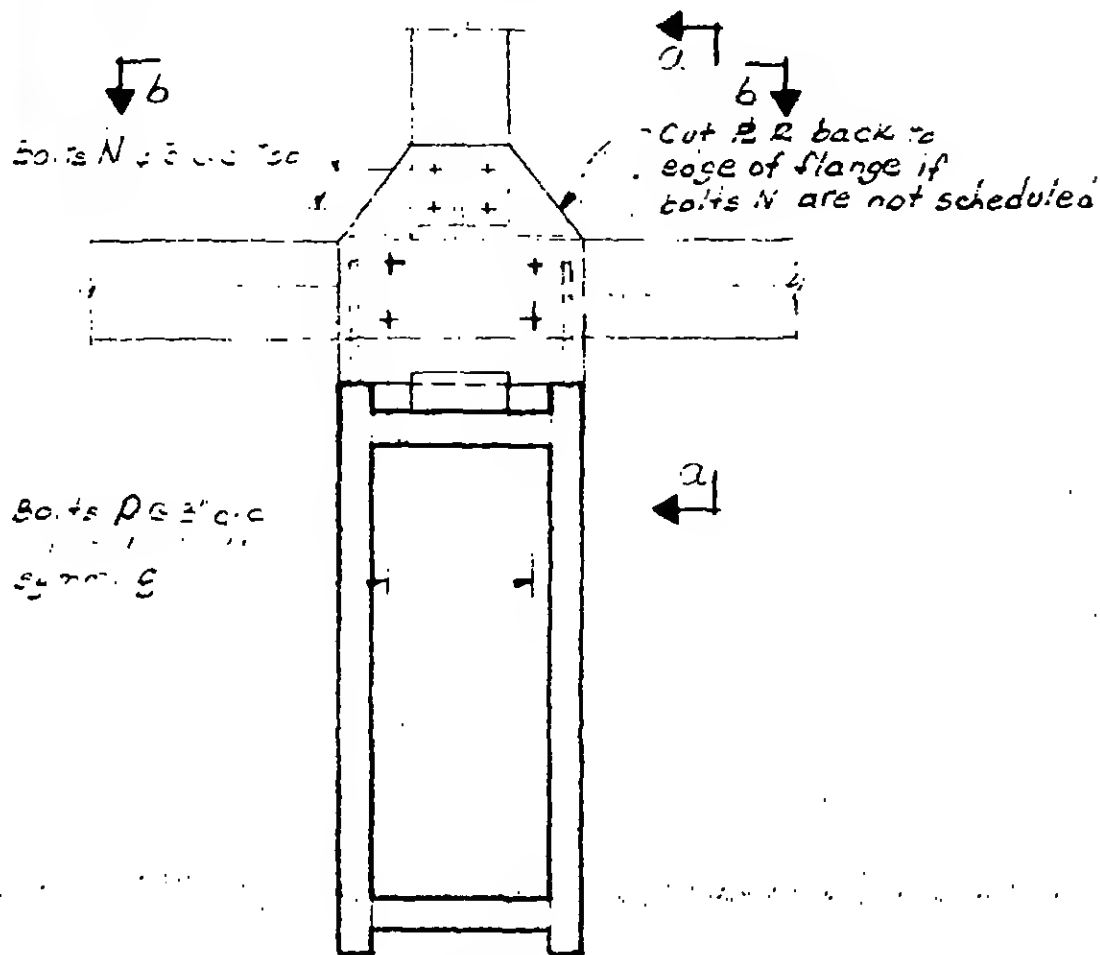
TITLE CONNECTION DETAIL 310 B, C, D, E, F

DATE 7-28-67

VISIONS

10-8-67

12-8-67



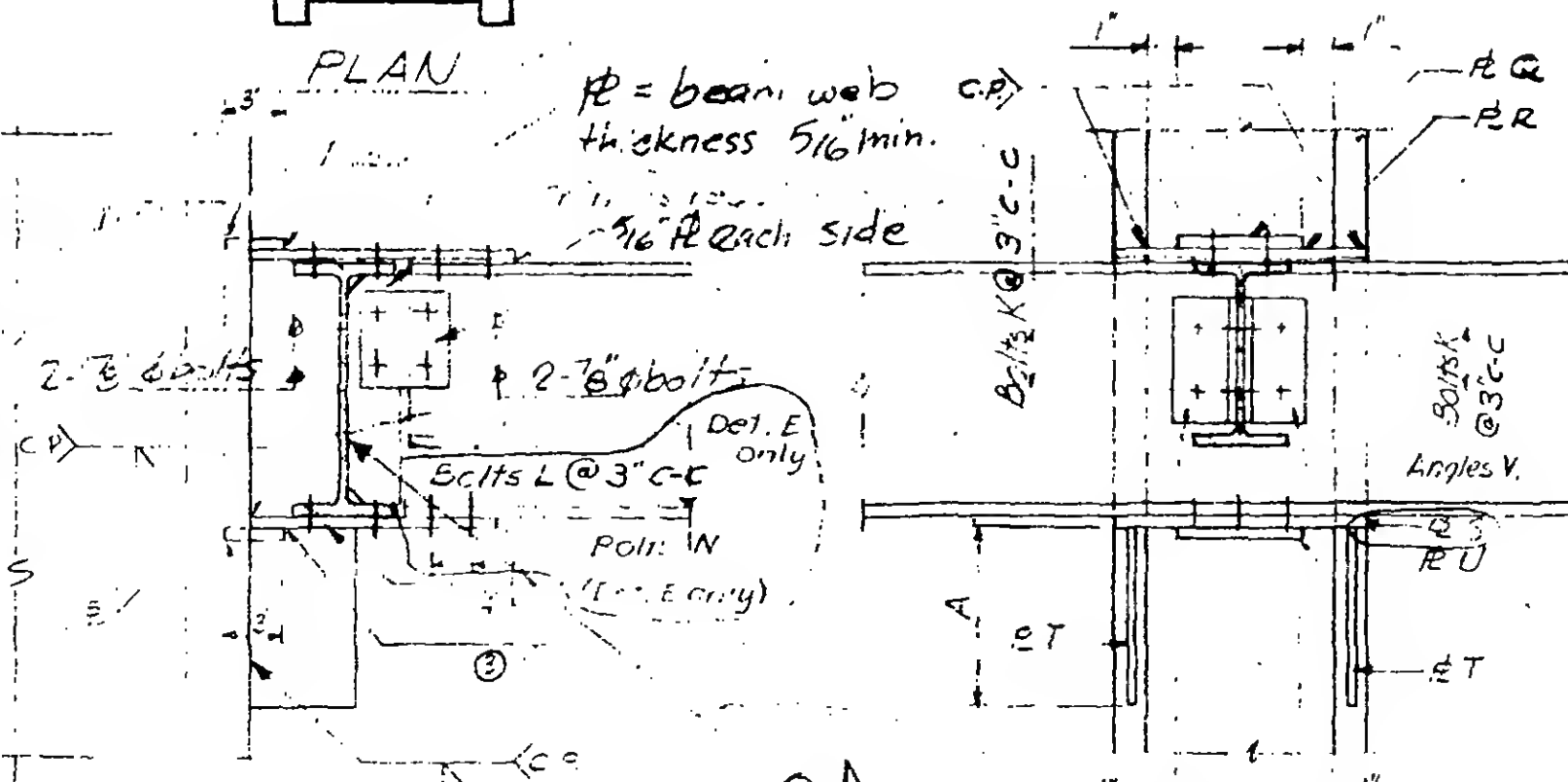
BOLTS P @ 3" c.c.
S. 70. 8

Cut P & R back to
edge of flange if
bolts N are not scheduled

Use alt. for
beam no. 857
Col. 906 elev. 284'
beam no. 1811
Col. 904 elev. 284'

PLAN

P = beam web
thickness $5/16$ min.
 $5/16$ P each side



SECTION a-a

SECTION b-b

Alternate
2-ABI-1172



SKILLING - HELLE - CHRISTIANSEN - ROBERTSON

Structural & Civil Engineers

PROJECT

THE WORLD TRADE CENTER

TITLE

SCHEDULE FOR DETAIL 3106 I

DATE

10-2-67

REVISIONS

2-9-68

REF. DWGS.	6-ABI-117.2	6-ABI-117.2				
	3106	3101				
PLATES						
P	—	—				
Q	3/8	3/8				
R	5/8"	1"				
S	1/2"	1"				
T	1/2"	7/8"				
U	—	3/8"				
ANGLES						
V	4 - 3 1/2 x 5/16	4 x 3 1/2 x 3/8				
DIMENSIONS						
A	1'-2"	1'-2"				
BOLTS						
K	3 - 3/4" ϕ	3 - 7/8" ϕ				
L	3 - 3/4" ϕ	3 - 7/8" ϕ				
M	—	—				
N	4 - 7/8" ϕ	8 - 7/8" ϕ				
P	4 - 3/4" ϕ	8 - 7/8" ϕ				
WELDS						
①	5/16	3/8				
②	5/16	3/8				
③	—	3/8				
④	3/8	5/16				
⑤	—	3/8				

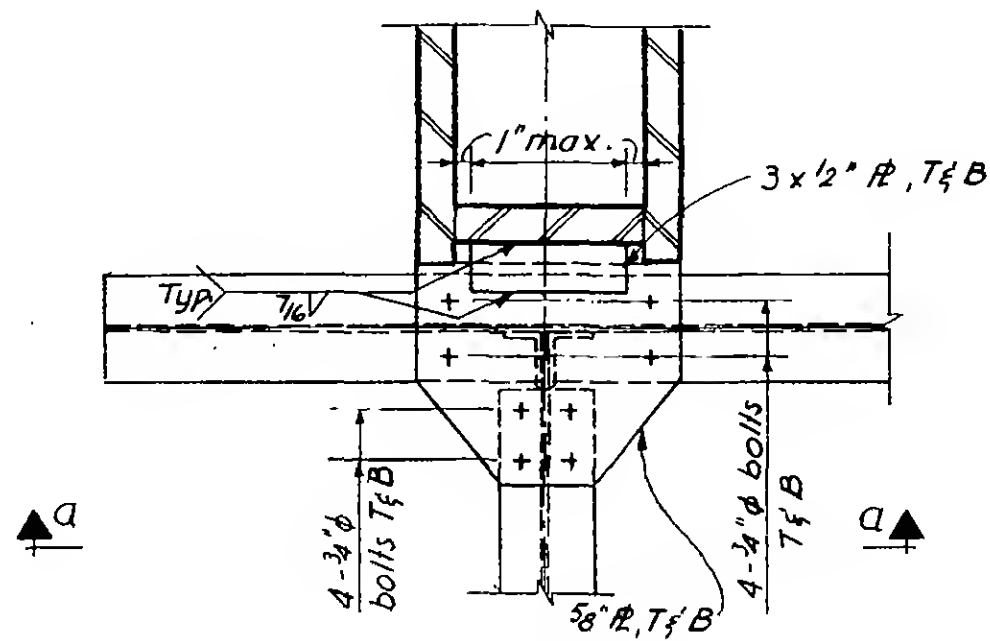
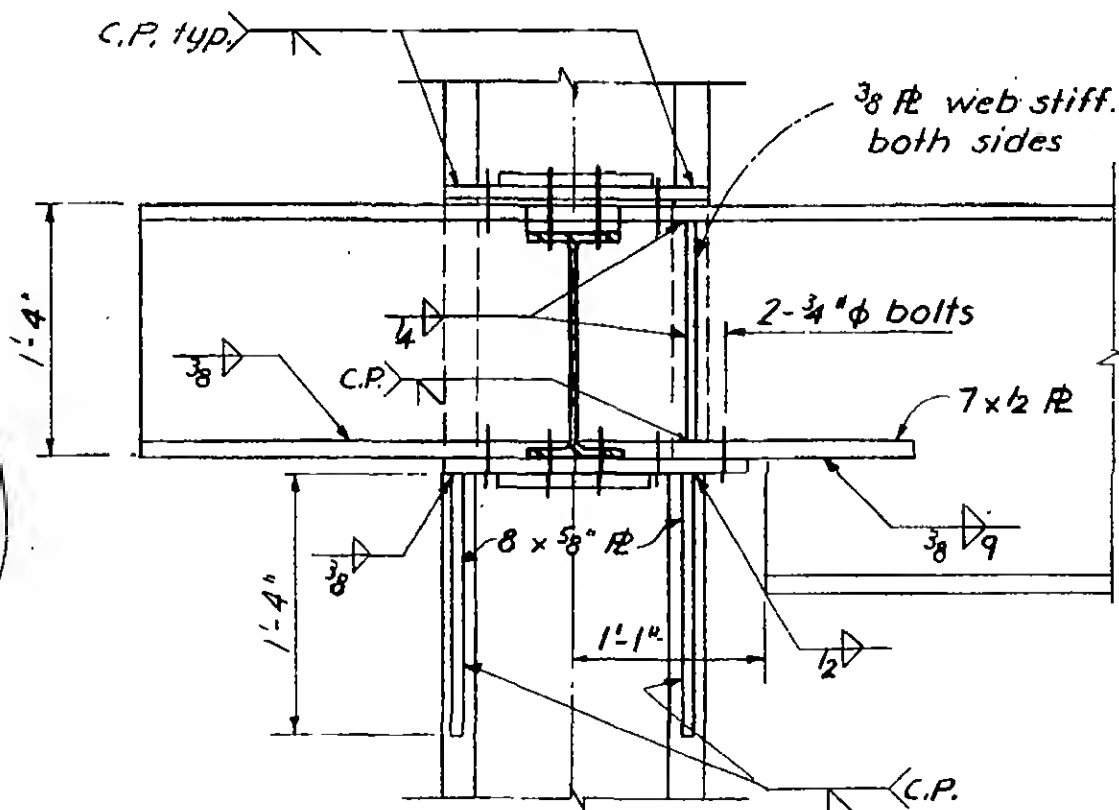
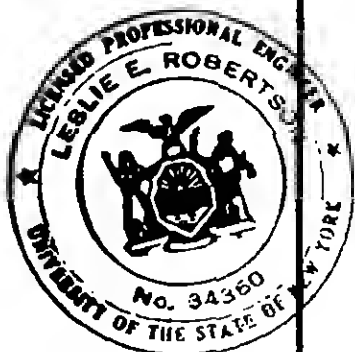
6-ABI-117.3



PROJECT THE WORLD TRADE CENTERTITLE CONNECTION DETAIL 310 JDATE 4-17-68

REVISIONS

Wherever suitable reuse previously
scheduled (Detail 310E) plates and bolts.

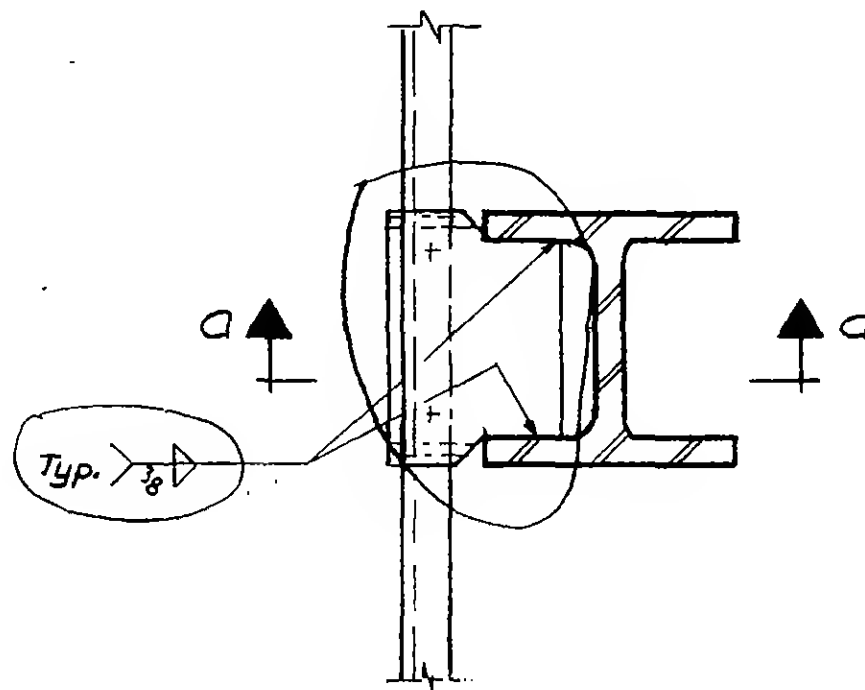
PlanSection a-a

REVISIONS

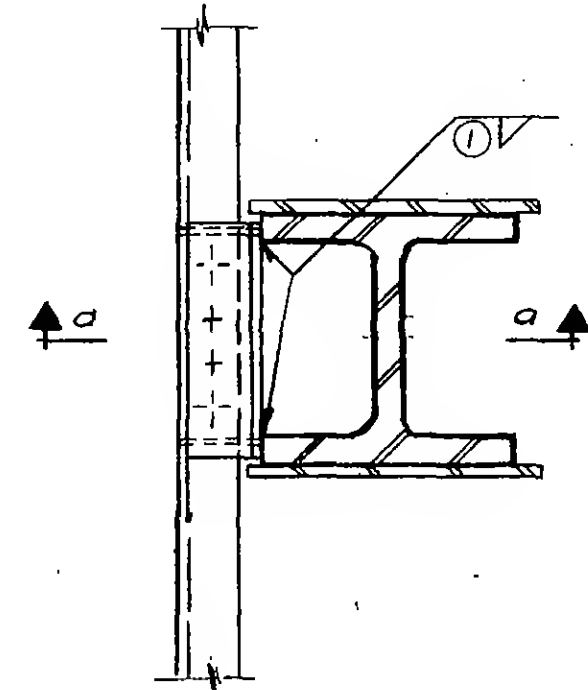
9-15-67

10-5-67

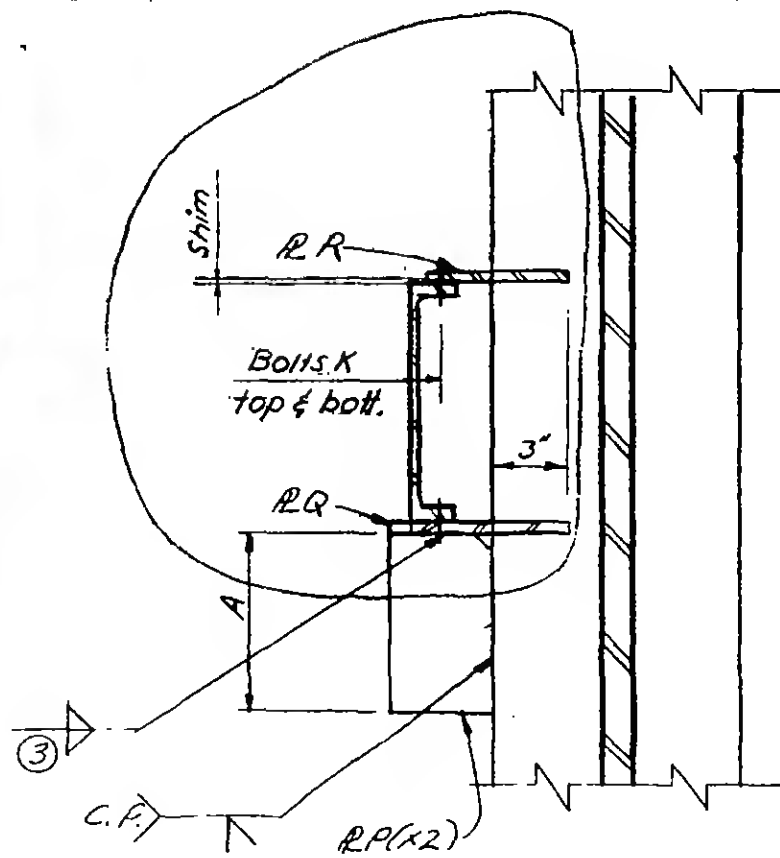
11-10-67



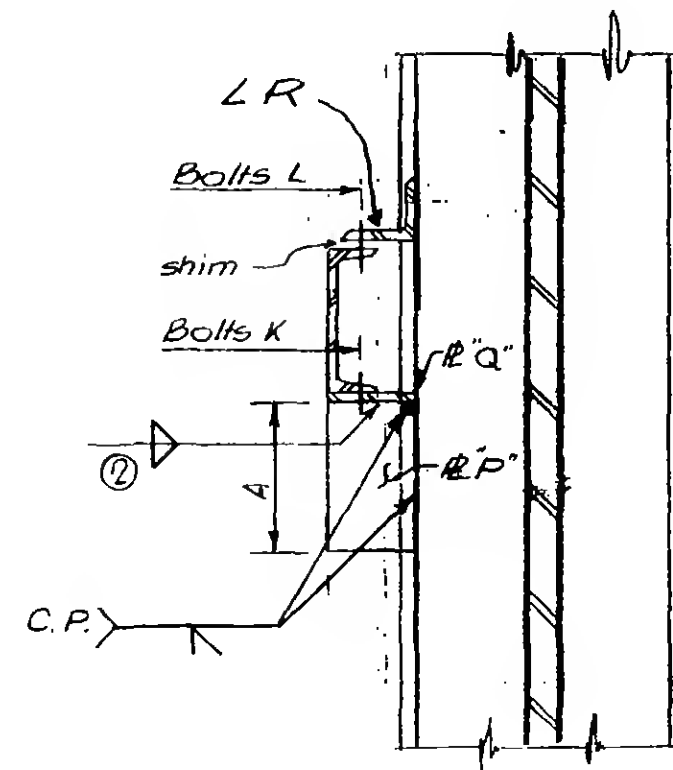
Plan (A)



Plan (B, C, D)



Section a-a



Section a-a



Structural & Civil Engineers

PROJECT *THE WORLD TRADE CENTER*

TITLE SCHEDULE FOR DETAIL 311 A, B, C, D

DATE 9-15-67

REVISIONS

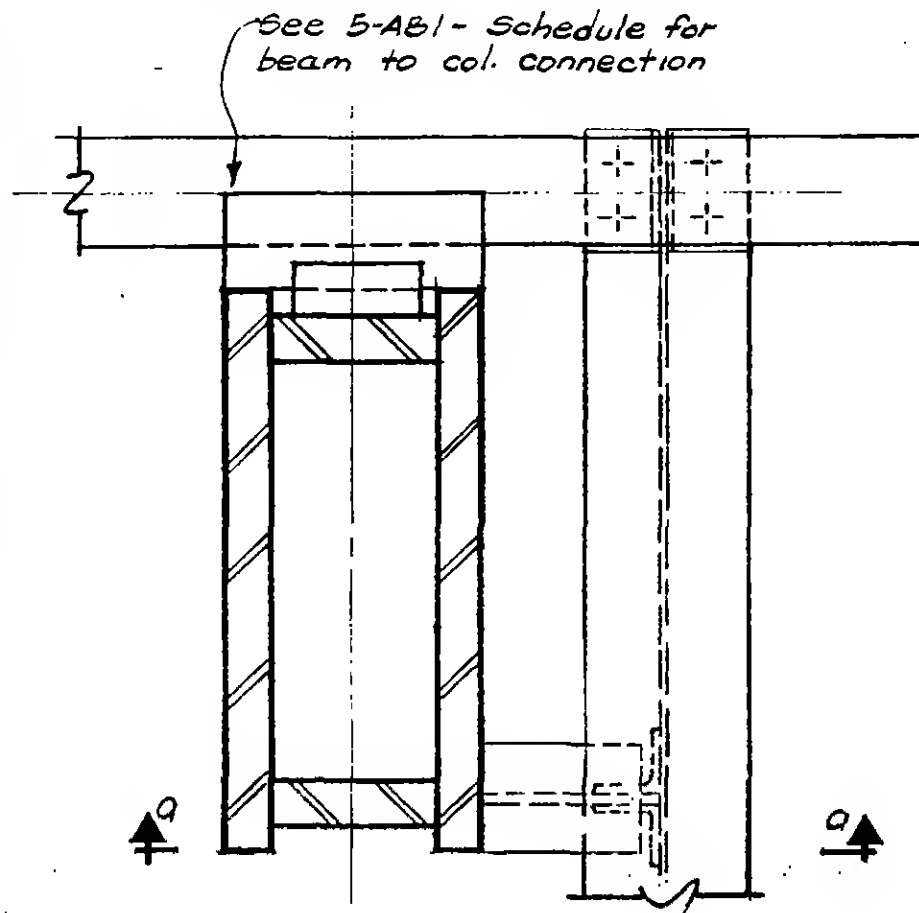
10-5-67

11-10-67

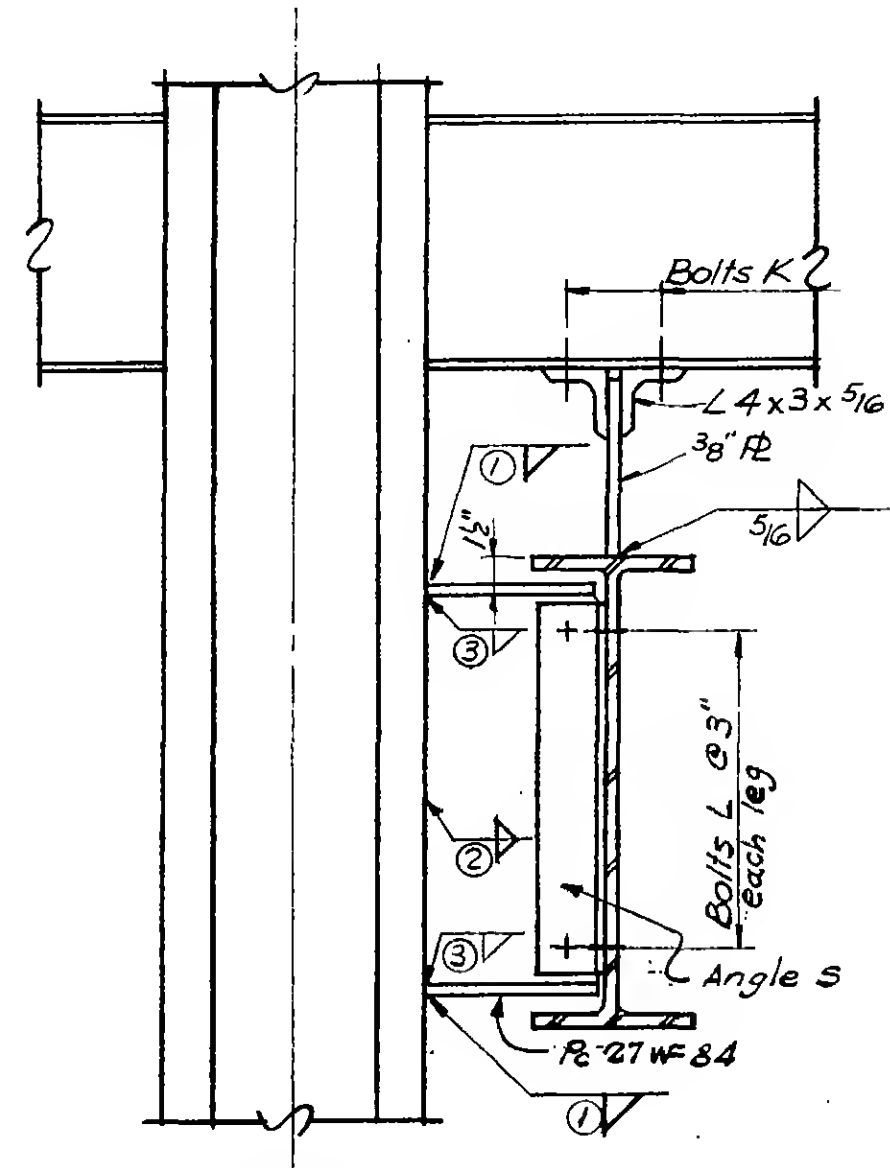
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REVISIONS

7-28-67



PLAN



SECTION a-a



WORTHINGTON, SKILLING, HELLE & JACKSON

Civil & Structural Engineers

PROJECT THE WORLD TRADE CENTER

TITLE SCHEDULE FOR DETAIL 312 A

DATE 7-28-67

REVISIONS

312 A

ANGLE

S

4 x 3 1/2 x 5/16

BOLTS

K

4 - 3/4" Ø

L

8 - 7/8" Ø

WELDS

①

1/2

②

7/16

③

1/2



6-ABI-119.1