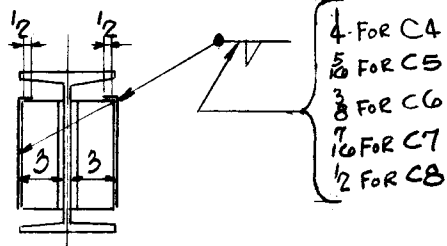


LEHIGH STRUCTURAL STEEL CO.
ALLENTOWN, PA.

WEIGHT

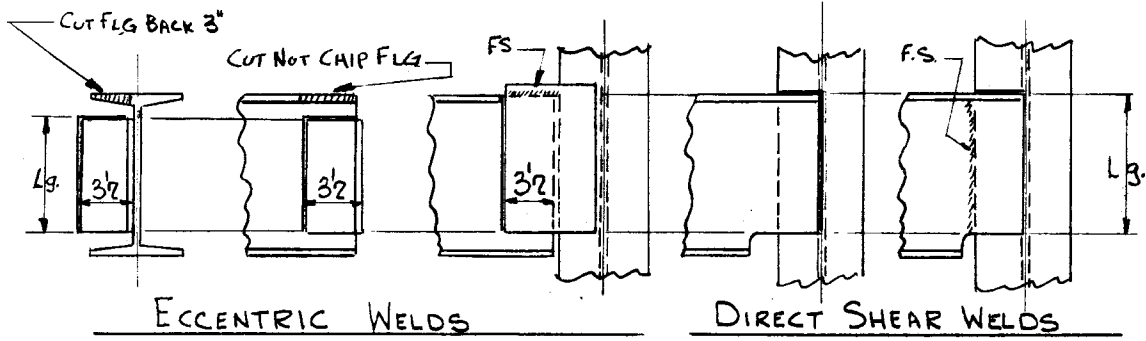


TYPICAL FRAMED BEAMS

VALUES OF WELDS IN KIPS

MARK	C4	C5	C6	C7	C8
1/4	14	51/6	38	71/6	12
3/8	3.8	4.7	5.8	6.8	7.7
1/2	6.6	8.3	10.0	11.7	13.3
5/8	10.1	12.6	15.2	17.7	20.2
3/4	12.0	15.0	18.0	21.0	24.0
7/8	14.0	17.5	21.0	24.5	28.0
1	18.0	22.0	27.0	32.0	36.0
1 1/8	22.0	28.0	34.0	40.9	46.0
1 1/4	25.2	31.5	37.8	44.1	50.4
1 1/2	27.0	34.0	41.0	48.5	55.0
1 3/4	32.0	40.0	48.0	57.1	65.0
2	37.0	47.0	56.0	66.0	75.0
2 1/4	40.2	50.3	60.3	70.4	80.4
2 1/2	42.0	53.0	64.0	74.6	85.0
2 3/4	48.0	60.0	72.0	84.0	96.0
3	53.0	66.0	80.0	93.3	106.0
3 1/4	55.8	69.8	83.7	97.7	111.6
3 1/2	58.0	72.0	88.0	102.4	116.0
3 3/4	63.0	77.0	95.0	111.1	127.0
4	68.0	86.0	103.0	120.0	137.0
4 1/4	71.5	89.4	107.2	125.1	143.0
4 1/2	74.0	92.0	111.0		148.0
4 3/4	79.0	99.0	118.0		158.0
5	84.0	105.0	126.0		168.0
5 1/4	87.1	108.8	130.6	152.4	174.2
5 1/2	89.0	112.0	134.0		179.0
5 3/4	94.0	118.0	142.0		189.0
6	99.0	124.0	149.0		199.0
6 1/4	102.5	128.1	153.7	179.4	205.0
6 1/2	104.0	131.0	158.0		209.0
6 3/4	109.0	137.0	165.0		219.0
7	114.0	143.0	172.0		229.0
7 1/4	117.8	147.2	176.7	226.2	235.6
7 1/2	119.0	150.0	180.0		239.0
7 3/4	125.0	156.0	187.0		250.0
8	130.0	163.0	195.0		260.0
8 1/4	133.0	166.2	199.5	232.8	266.0
8 1/2	135.0	169.0	202.0		270.0
8 3/4	140.0	175.0	210.0		280.0
9	145.0	181.0	217.0		290.0
9 1/4	150.0	188.0	225.0		300.0
9 1/2	155.0	194.0	232.0		310.0
9 3/4	160.0	200.0	240.0		320.0
10	165.0	206.0	248.0		330.0

C4 to C8

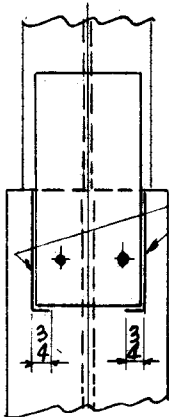


ALTERNATE "L" WELDS

VALUES OF WELDS IN KIPS

ECCENT. LOADED						DIRECT SHEAR				
MARK	L4	L5	L6	L7	L8	L4	L5	L6	L7	L8
^{Fuller} Lg.	14	51/6	38	71/6	12	14	51/6	38	71/6	12
3/2	3.6	4.5	5.4		7.2	12.0	15.0	18.0		24.0
4/2	5.6	7.0	8.4		11.2	14.4	18.0	21.6		28.8
5	6.7	7.8	9.3	10.9	12.4	15.6	19.5	23.4	27.3	31.2
5/2	7.6	9.5	11.4	13.3	15.2	16.8	21.0	25.2	29.4	33.6
6	8.3	10.4	12.5	14.5	16.6	18.0	22.5	27.0	31.6	36.0
6/2	9.6	12.0	14.4		19.2	19.2	24.0	28.8		38.4
7/2	11.7	14.6	17.5		23.4	21.6	27.0	32.4		43.2
8/2	13.8	17.2	20.7	24.2	27.6	24.0	30.0	36.0	42.0	48.0
9/2	15.8	19.8	23.8		31.7	26.4	33.0	39.6		52.8
10/2	17.6	22.0	26.4		35.3	28.8	36.0	43.2		57.6
11/2	20.5	25.6	30.7	35.9	41.0	31.2	39.0	46.8	54.6	62.4
1-0/2	21.6	27.0	32.4		43.2	33.6	42.0	50.4		67.2
1-1/2	24.0	30.0	36.0		48.0	36.0	45.0	54.0		72.0
1-2/2	27.0	33.7	40.6	47.3	54.0	38.4	48.0	57.6	67.2	76.8
1-5/2	34.0	42.5	51.0	59.5	68.0	45.6	57.0	68.4	79.8	91.2
1-8/2	41.0	51.5	61.5	71.8	82.0	52.8	66.0	79.2	92.4	105.6
1-11/2	48.0	60.0	72.0	84.0	96.0	60.0	75.0	90.0	105.0	120.0
2-2/2	55.0	68.7	82.5	96.3	110.0	67.2	84.0	100.8	117.6	134.4
2-5/2	62.0	77.5	93.0	108.5	124.0	74.4	93.0	111.6	130.2	148.8

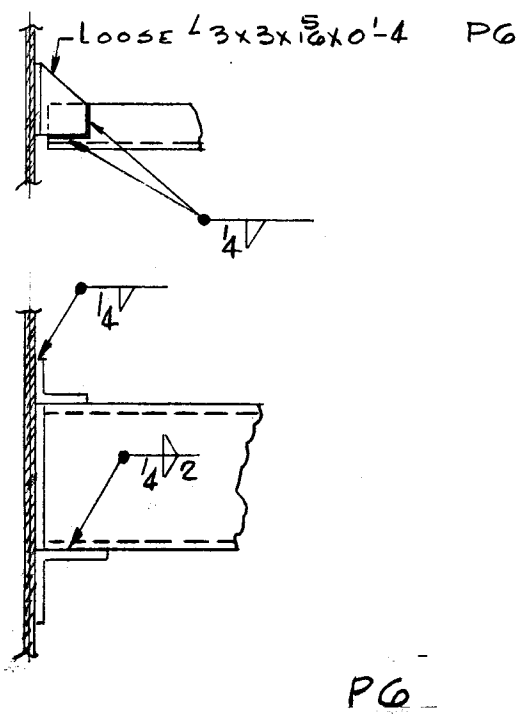
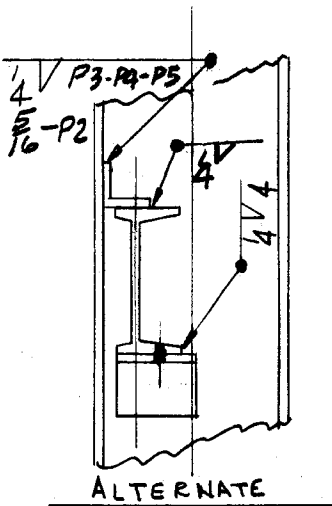
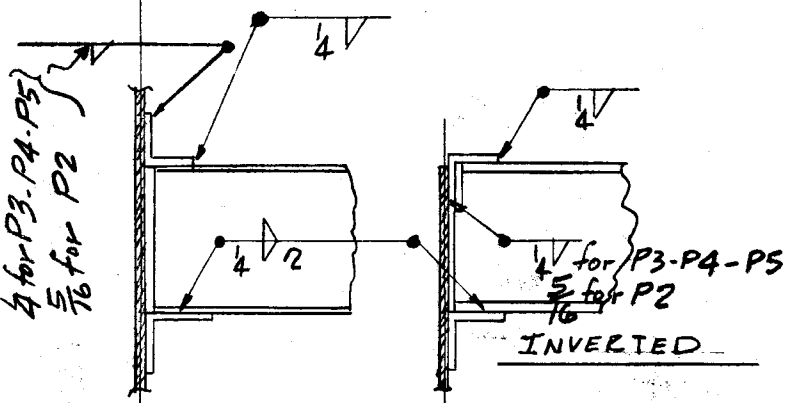
L4 to L8



COLUMN SPLICE (TYPICAL)

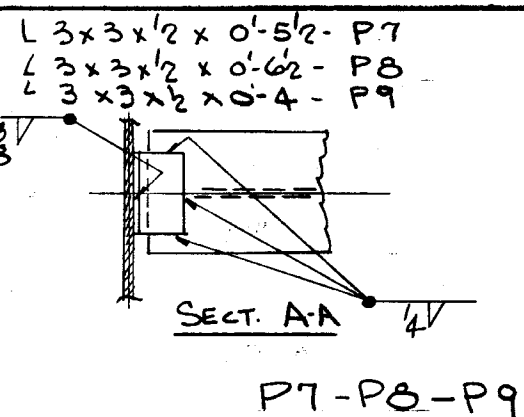
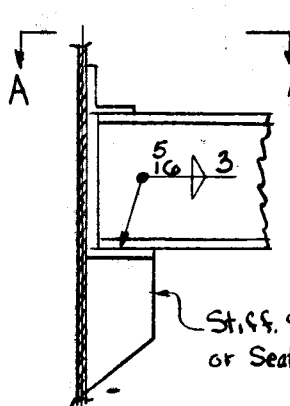
3 FOR ALL 14 WF & 12 WF
2 FOR ALL OTHER COLS.

Loose L3x3x5/16x0.5 P5 Flg over T
Loose L3x3x5/16x0.4 P4 Flg 5 to 7
Loose L3x3x5/16x0.3 P3 Under 5 Flg
Loose L3x3x3/8x0.3 P2 Under 5 Flg - 5/16 Weld to Col.



NOTES:-

ALL CRATERS SHALL BE FILLED TO THE FULL CROSS-SECTION OF THE WELDS. WHENEVER SHIMS ARE USED AT CONNECTIONS FOR ALIGNMENT OF STRUCTURE, THE SIZE OF THE SPECIFIED WELDS MUST BE INCREASED FOR THE THICKNESS OF THE SHIMS. WELDS, WHEREVER POSSIBLE, MUST BE RETURNED CONTINUOUSLY AROUND THE TOP OF THE CONNECTION FOR A DISTANCE OF 1/2 UNLESS SHOWN OTHERWISE IN SKETCH



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TOTAL	ORD.	PLATE	STD.	BOLT	RIV.	BAR	SM. STD.	PAINT
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RIVETS	UNLESS NOTED	DET. LWS	DATE 10-27-54
OPEN HOLES	UNLESS NOTED	CHK'R R.C.C.	DATE 10-28-54
		IN CHARGE FISHER	

REVISION P24 P9 added.

CONTRACT NO.

SHEET NO.

4090

X3