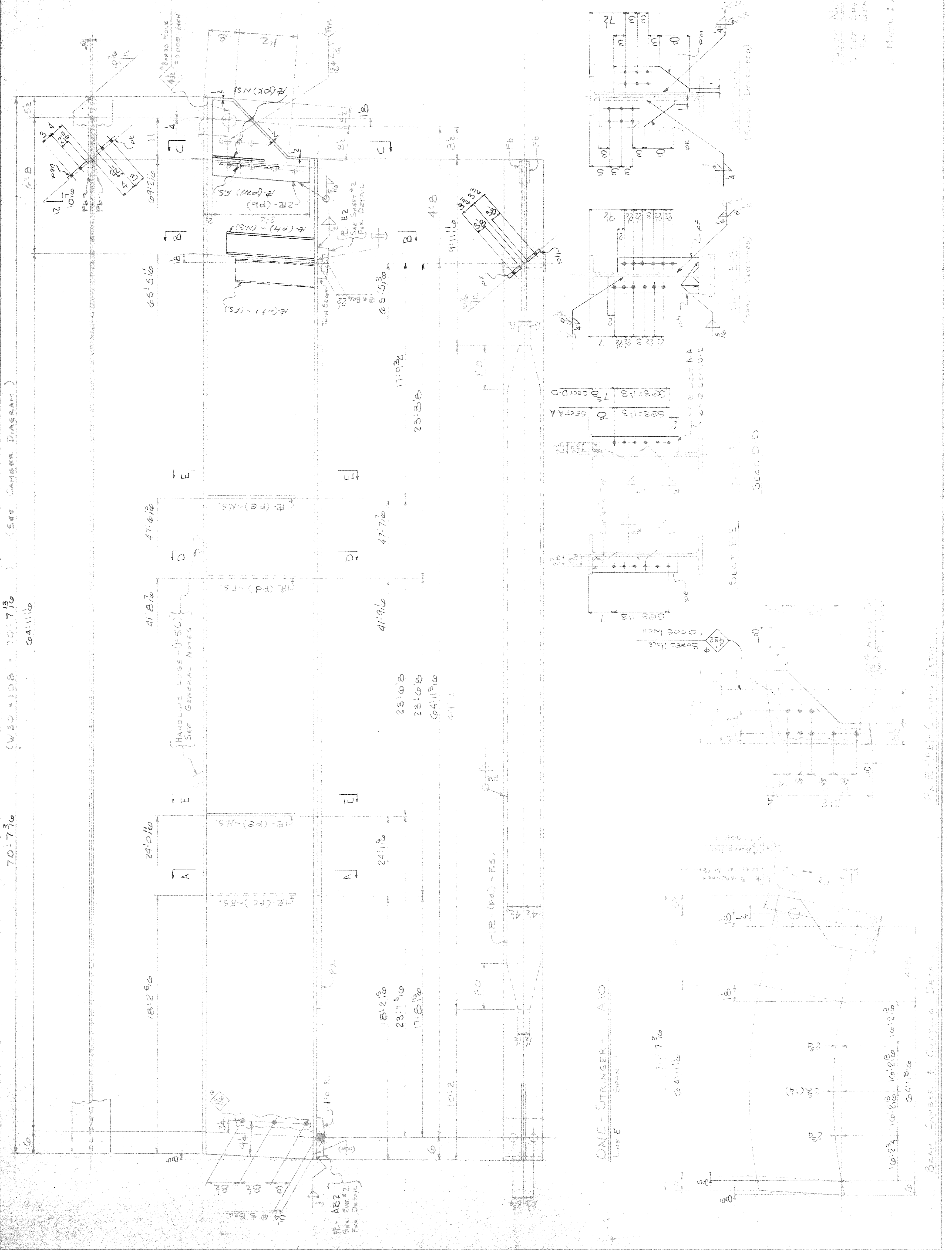


LINE	NO. OF BEAMS	MATERIAL	LENGTH	ASSEMBLY MARK	REMARKS	ORDERED
1	1	STEEL GIRDER	70' 7 1/2"	A10		
2	1	1 W 30 x 108	70' 7 1/2"		CWN	1/2
3	1	1 E 12 x 9	49' 3"	PA	CWN	1/2
4	2	2 E 12 x 9	22' 3 1/2"	PB	CWN	1/2
5	1	1 E 12 x 4	2' 10 1/4"	PC		2/0
6	1	1 E 12 x 4	1' 11 1/8"	PD		2/0
7	2	2 E 12 x 4	1' 9 3/8"	PE		2/7
8	1	1 E 12 x 4	2' 0 3/8"	PF		2/7
9	1	1 E 12 x 4	2' 0 3/8"	PG		2/7
10	1	1 E 12 x 4	2' 0 3/8"	PH		2/7
11	1	1 E 12 x 4	1' 8"	PI		2/7
12	1	1 E 12 x 4	1' 8"	PI		2/7
13	1	1 S 4 x 4	70' 7 1/2"	AB2	SEE SH. 2 FOR DETAIL	
14	1	1 S 4 x 4	70' 7 1/2"	E2	FOR DET.	
15	2	2 E 12 x 4	0' 6 1/2"	PSG		

APPROVED
 CITY OF DETROIT
 CITY ENGINEERING DEPARTMENT
 FOR COMPLIANCE WITH CONTRACT No. 14,6557
 THIS APPROVAL SHALL NOT RELIEVE THE CONTRACTOR OF ANY RESPONSIBILITY COVERED BY THE CONTRACT
 DATE: MAR 2 1977 BY: [Signature]

PHILIP ZWEIF & SONS
 2000 SHIARE GARY, IND.
 BUILDING CONTRACTORS
 OWNER: City of Detroit
 LOCATION: [Blank]
 CONTRACTOR: Philip Zweif & Sons
 ARCHITECT: [Blank]
 TITLE: STRINGER & CUTTING
 DRAWN: JJ
 CHECKED: RPJ
 DATE: 2-1-77
 REV: [Blank]
 CONTRACT: 316 SHEET 10 OF 53



BEAM CAMBER & CUTTING DETAIL
 SHEET NOTES
 1. SEE SHEET 57 FOR GENERAL NOTES.
 2. MARK: A588 U.M.

LINE NO.	DESCRIPTION	QUANTITY	UNIT	REMARKS	ORDERED	ITEM
1	STAINLESS STEEL	707.4	LBS			172
2	W 30 x 108	49.3	LBS	CIV		177
3	PL 1/2	2.2	LBS	CIV		130
4	PL 1/2	2.0	LBS	CIV		260
5	PL 1/2	1.1	LBS			260
6	PL 1/2	2.0	LBS			260
7	PL 1/2	1.1	LBS			260
8	PL 1/2	1.1	LBS			260
9	PL 1/2	1.1	LBS			260
10	PL 1/2	2.0	LBS			271
11	PL 1/2	1.8	LBS			271
12	PL 1/2	1.8	LBS			271
13	AC2	1	PC	See Sht. 2		
14	SOLE PL	1	PC	F2		
15	SOLE PL	1	PC	F2		
16	SOLE PL	1	PC	F2		

**CITY OF DETROIT
CITY ENGINEERING DEPARTMENT**

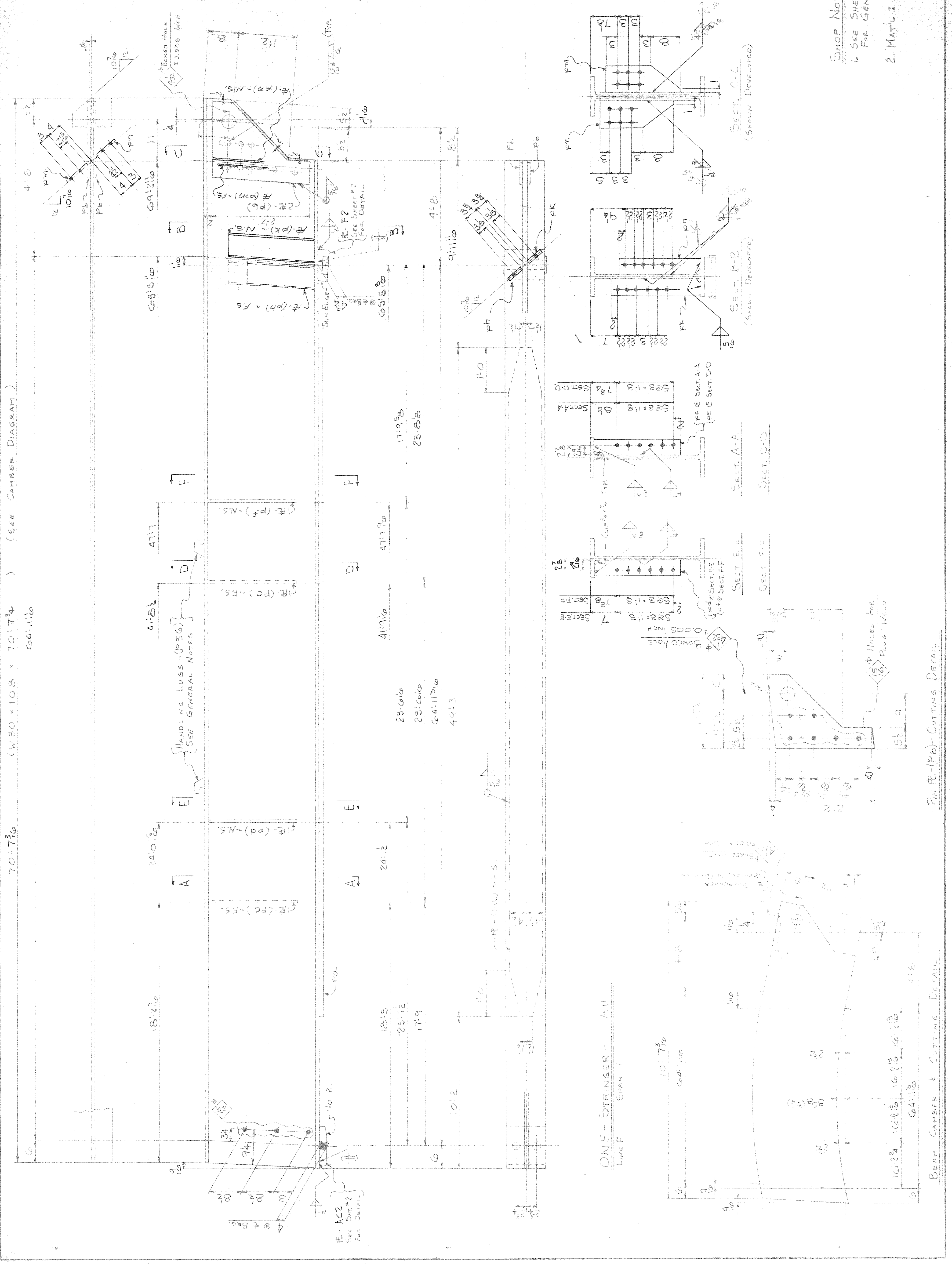
APPROVED AS NOTED

FOR COMPLIANCE WITH CONTRACT NO. 15538
THIS APPROVAL SHALL NOT BE THE CONTRACTOR'S RESPONSIBILITY COVERED BY THE CONTRACT OF APRIL 1977.
DATE: MAR 2 1977

PHILIP ZWEIF & SONS
2100 E. STRAIVE
GARY, IND.

BUILDING: 5555 1/2 Ave. Bldg. C-100, The P.C.R.R.
OWNER: CITY OF DETROIT, Mich.
LOCATION: DETROIT, Mich.
CONTRACTOR: PHILIP ZWEIF & SONS, Construction Company
ARCHITECT: CITY ENGINEERING DEPT., CITY OF DETROIT, Mich.
TITLE: STRAINER - SPAN 1

DATE: 2-1-77
DRAWN: J.J.
CHKD: R.P.
REV. NONE
PAINT: NONE
CONTRACT: 335
SHEET: 11 OF 53



SHOP NOTES

1. SEE SHEET E4 FOR GENERAL NOTES.

2. MAT'L: A588 U.S.

PIN BE-(Pb)-CUTTING DETAIL

BEAM CAMBER & CUTTING DETAIL

ONE-STRINGER - ALL
LINE F SPAN 1

70:7'B (W30 x 108 x 70:7'B) (SEE CAMBER DIAGRAM)

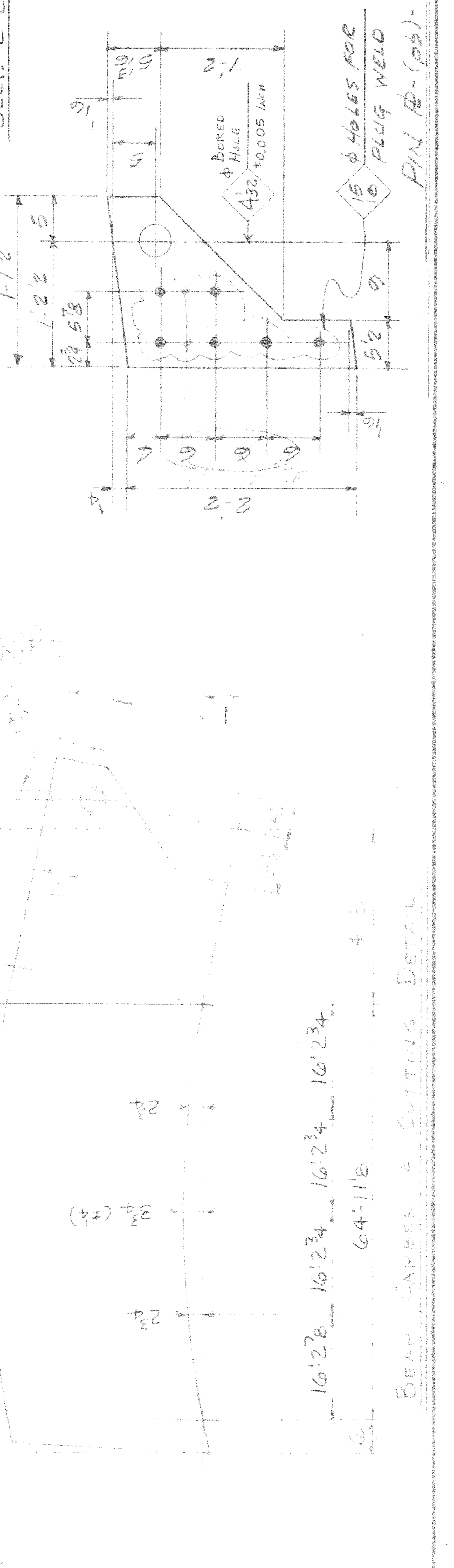
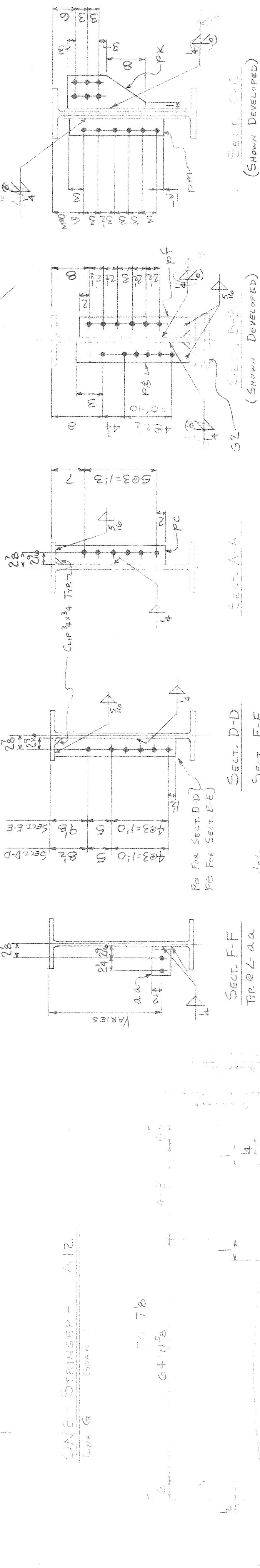
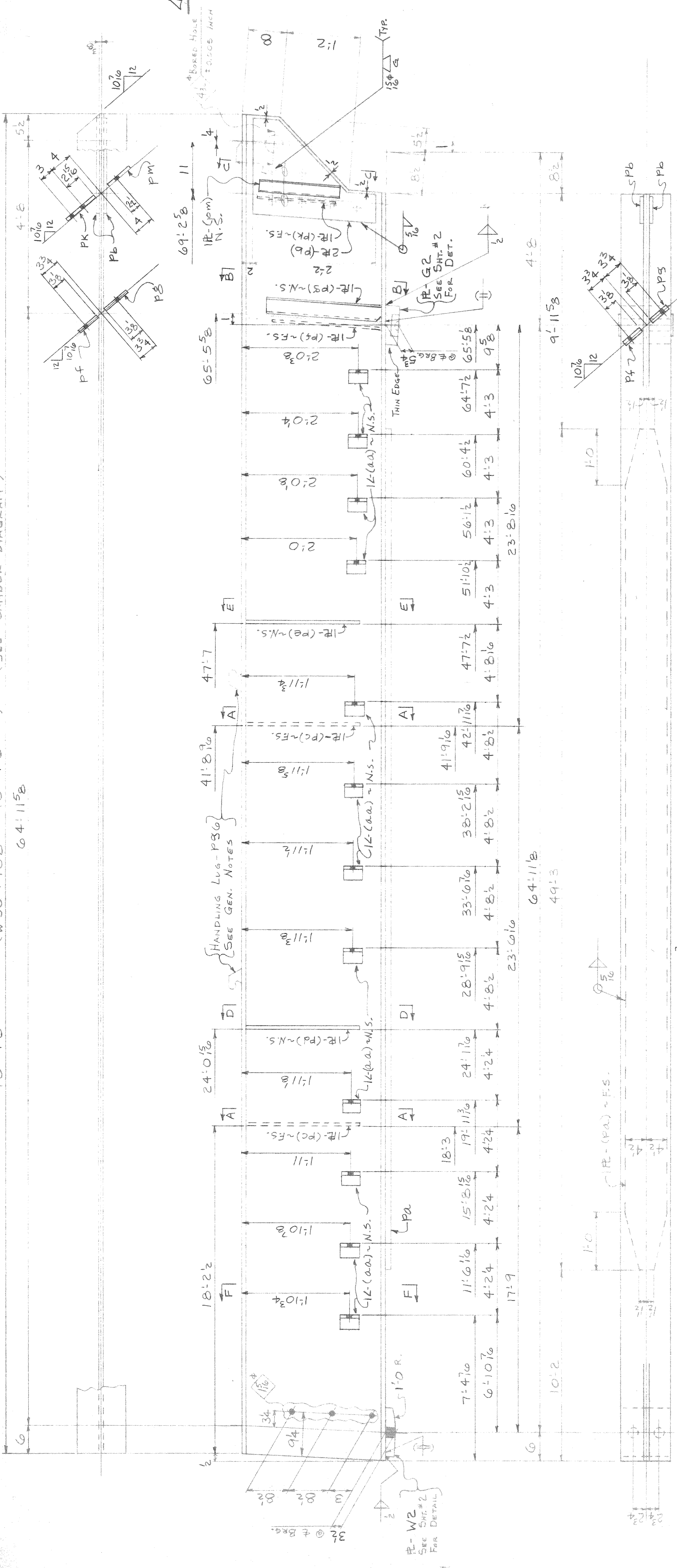
64:11'B

LINE NO.	MATERIAL	SHAPE	LENGTH	REMARKS	ORDERED	REVISION	DATE	BY
1	STRAINER	4x4	70:7'					
2	W30x108	W30x108	70:7'					
3	PLATE	1/2" x 12"	49:3'					
4	PLATE	1/2" x 12"	2:2'					
5	PLATE	1/2" x 12"	1:14'					
6	PLATE	1/2" x 4"	2:24'					
7	PLATE	1/2" x 4"	2:2'					
8	PLATE	1/2" x 4"	1:11'					
9	PLATE	1/2" x 4"	2:0'					
10	PLATE	1/2" x 4"	1:1'					
11	PLATE	1/2" x 4"	1:8'					
12	ANGLE	3" x 3"	0:4'					
13	SOLE PLATE	1/2" x 12"	0:4'					
14	SOLE PLATE	1/2" x 12"	0:4'					
15	SOLE PLATE	1/2" x 12"	0:4'					

CITY OF DETROIT
 CITY ENGINEERING DEPARTMENT
APPROVED
 FOR CO. PLIANCE WITH CONTRACT No. 165845 NOTED
 THIS APPROVAL IS NOT TO BE RELIED UPON BY THE CONTRACTOR
 OF ANY RESPONSIBILITY COVERED BY THE CONTRACT
 DATE: MAR 2 1977 BY: [Signature]

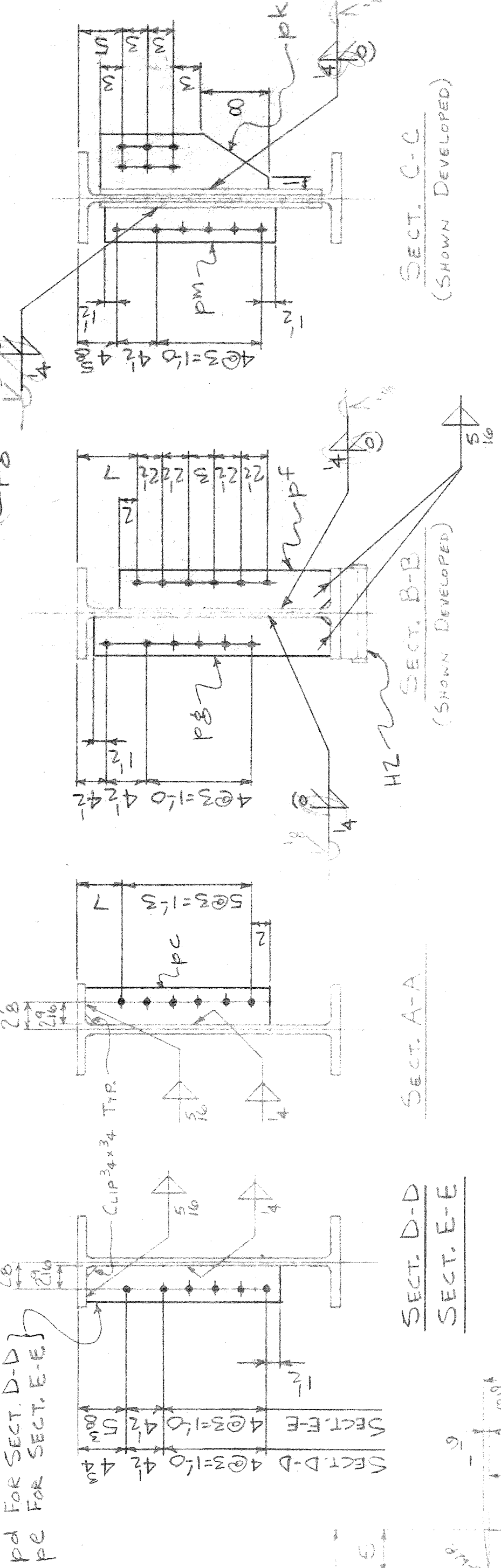
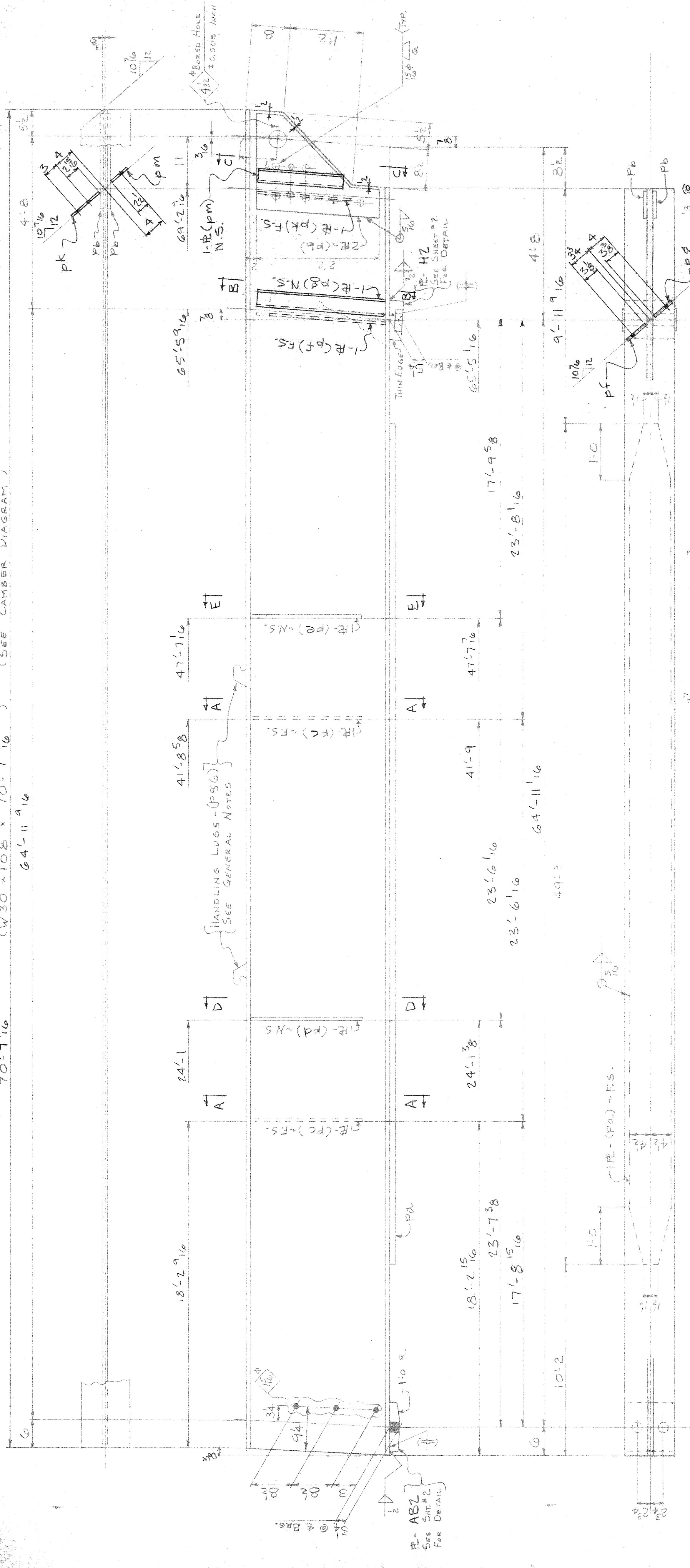
PHILIP ZWEIF & SONS
 2100 E. STUYVE
 GARY, IND.
 BUILDING ENGINEER
 OWNER: CITY OF DETROIT
 LOCATION: [Blank]
 CONTRACTOR: [Blank]
 ARCHITECT: [Blank]
 TITLE: [Blank]
 RIVETS: NONE
 HOLES: 1/2" x 1/2"
 DRAWN: R.P.J.
 CHECKED: R.P.J.
 DATE: 2-1-77
 REVISED: 2/27/77
 PAINT: NONE
 CONTRACT: 335 SHEET 12 OF 53

SHOP NOTES
 1. SEE SHEET E4 FOR GENERAL NOTES.
 2. MAT'L: A588 U.M.



BEAR CAMBER & CUTTING DETAIL

70'-7 1/2" (W30 x 108 x 70'-7 1/2") (SEE CAMBER DIAGRAM)
 64'-11 9/16"



ONE STRINGER - A14
 LINE J SPAN

BEAM CAMBER & CUTTING DETAIL

PIN E-(Pb)-CUTTING DETAIL

LINE NO.	MATERIAL	SHAPE	MATERIAL		REMARKS	ORDERED ITEM
			QUANTITY	UNIT		
1	STRIP	W30x108	707.6	ft		
2	1 RE	1/2" x 4"	49.3	pc		1/2
3	2 RE	1/2" x 4"	224	pc		1/2
4	2 RE	1/2" x 4"	114	pc		1/2
5	1 RE	1/2" x 4"	110	pc		3/12
6	1 RE	1/2" x 4"	108	pc		3/12
7	1 RE	1/2" x 4"	208	pc		2/7
8	1 RE	1/2" x 4"	228	pc		3/14
9	1 RE	1/2" x 4"	18	pc		2/17
10	1 RE	1/2" x 4"	172	pc		3/13
11	1 SOLE PL					
12	1 SOLE PL					
13	2 RE	1/2" x 4"	0.616	pc		

CITY OF DETROIT
 CITY ENGINEERING DEPARTMENT
APPROVED
 FOR COMPLIANCE WITH CONTRACT NO. **4556**
 THIS APPROVAL SHALL NOT RELIEVE THE CONTRACTOR OF ANY RESPONSIBILITY COVERED BY THE CONTRACT.
 DATE: **MAR 2 1977** BY: _____

PHILIP ZWEIF & SONS
 2100 E. SPYRIVE
 BUILDING EIGHTY-ONE, BARCLAY CROSSING THE P.C.R.R.
 OWNER: CITY OF DETROIT, MICH.
 LOCATION: DETROIT, MICH.
 CONTRACTOR: WATER TOBERE CONSTRUCTION COMPANY
 ARCHITECT: CITY ENGINEERING DEPT., CITY OF DETROIT, MICH.
 TITLE: **STRINGER SPAN**
 DRAWN BY: **DATE**
 PRINT NAME: **CHOD. R.P.**
 REV: _____
 CONTRACT **335**
 SHEET **14** OF **53**

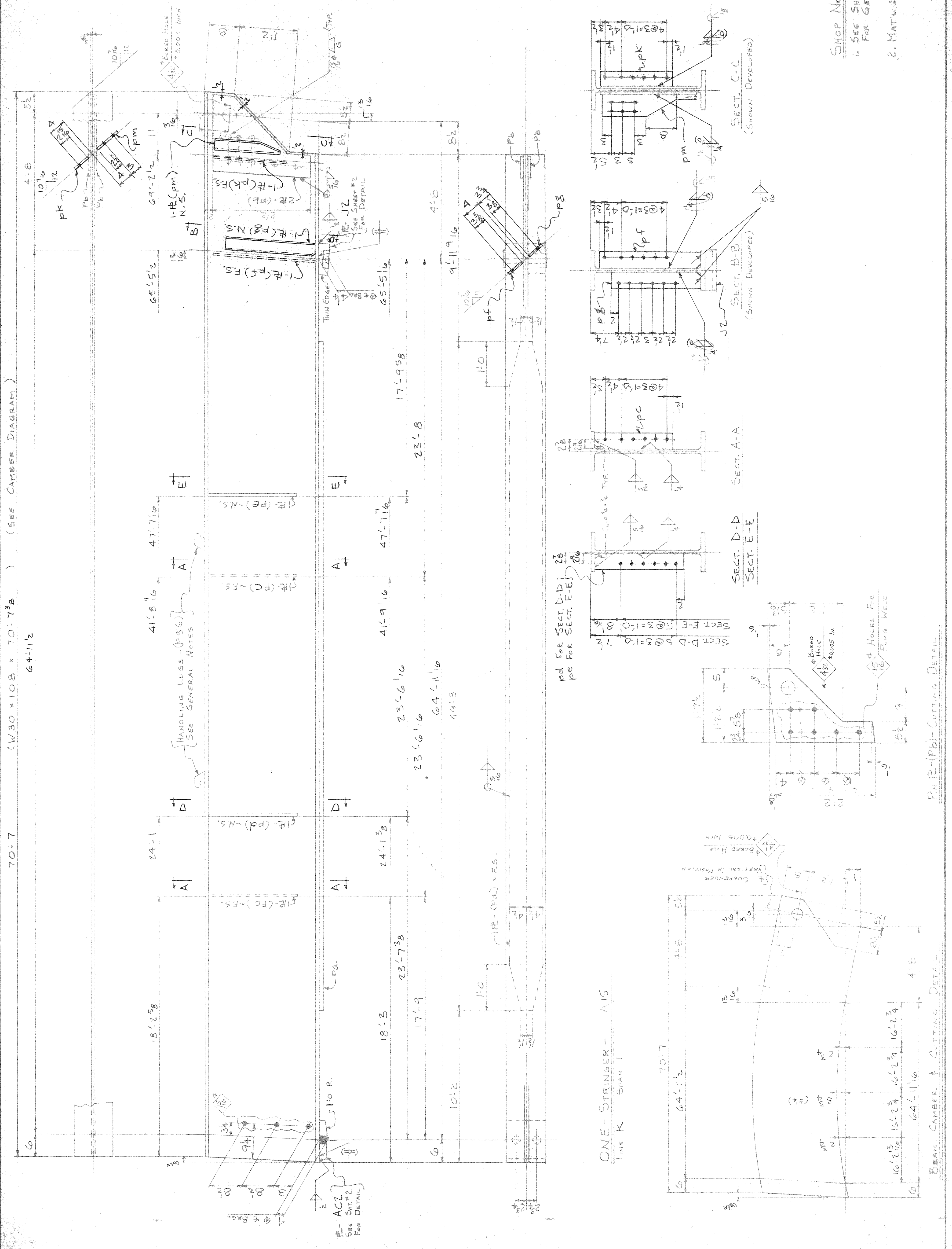
SHOP NOTES
 1. SEE SHEET E-4 FOR GENERAL NOTES.
 2. MATL: A588 U.N.

LINE NO.	QTY	DESCRIPTION	SHAPE	LENGTH	ASSEMBLY MARK	REMARKS	ORDERED
1	1	STRINGER	W 30 x 108	70' 7 3/8	A15		
2	1	PLATE	PL 3/8 x 12	44' 3"	P2		
3	2	PLATE	PL 3/8 x 12	22' 1 1/2"	P3		
4	2	PLATE	PL 3/8 x 12	22' 1 1/2"	P4		
5	2	PLATE	PL 3/8 x 12	22' 1 1/2"	P5		
6	2	PLATE	PL 3/8 x 12	22' 1 1/2"	P6		
7	2	PLATE	PL 3/8 x 12	22' 1 1/2"	P7		
8	2	PLATE	PL 3/8 x 12	22' 1 1/2"	P8		
9	2	PLATE	PL 3/8 x 12	22' 1 1/2"	P9		
10	2	PLATE	PL 3/8 x 12	22' 1 1/2"	P10		
11	2	PLATE	PL 3/8 x 12	22' 1 1/2"	P11		
12	2	PLATE	PL 3/8 x 12	22' 1 1/2"	P12		
13	1	SOLE PLATE	PL 3/8 x 12		AC2	SEE SHEET 2	
14	1	SOLE PLATE	PL 3/8 x 12		J2	FOR DET.	
15	2	PLATE	PL 3/8 x 12	0' 6 1/2"	P36		
16							
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66							
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CITY OF DETROIT
CITY ENGINEERING DEPARTMENT
APPROVED
 FOR CO-PLIANCE WITH CONTRACT NO. 6553
 THIS APPROVAL SHALL NOT BE THE CONTRACTOR'S RESPONSIBILITY COVERED BY THE CONTRACT
 DATE: MAR 7 1977 BY:

PHILIP ZWEIF & SONS
 2102 E. 87th Ave
 GARY, IND.
 BUILDING DEPARTMENT
 OWNER: CHA. OF DETROIT, MICH.
 LOCATION: DETROIT, MICH.
 CONTRACTOR: WALTER TOBE, CONSTRUCTION COMPANY
 ARCHITECT: CITY ENGINEERING DEPT., CITY OF DETROIT, MICH.
 TITLE: ESTIMATOR, SPAN 1

DRAWN: R.J. DATE: 2-1-77
 CHECKED: R.P.
 PAINT: NONE
 CONTRACT: 335 SHEET 15 OF 53



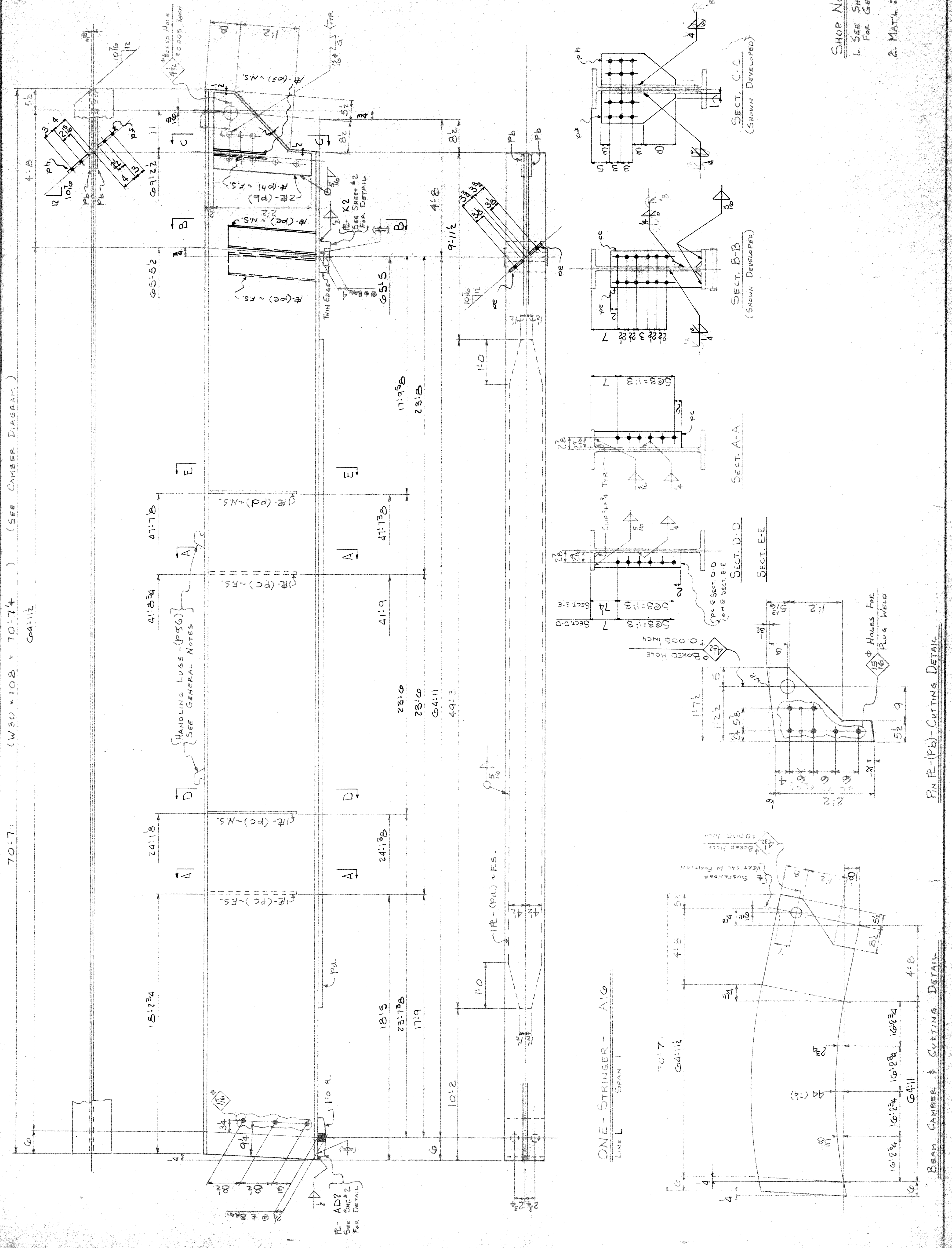
SHOP NOTES
 1. SEE SHEET E4 FOR GENERAL NOTES.
 2. MAT'L: A588 U.N.

LINE NO.	QTY	DESCRIPTION	UNIT	REMARKS	DATE
1	1	STEEL BEAM	70'7"		
2	1	W 30 x 108	49'3"		
3	2	PL 1/2	2'2"		
4	2	PL 1/2	1'11 1/2"		
5	1	PL 1/2	2'08"		
6	2	PL 1/2	1'8"		
7	1	PL 1/2	1'8"		
8	1	PL 1/2	1'8"		
9	1	PL 1/2	1'8"		
10	1	PL 1/2	1'8"		
11	1	PL 1/2	1'8"		
12	1	PL 1/2	1'8"		
13	1	PL 1/2	1'8"		
14	1	PL 1/2	1'8"		
15	1	PL 1/2	1'8"		
16	1	PL 1/2	1'8"		
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29	1	PL 1/2	1'8"		
30	1	PL 1/2	1'8"		
31	1	PL 1/2	1'8"		
32	1	PL 1/2	1'8"		
33	1	PL 1/2	1'8"		
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39	1	PL 1/2	1'8"		
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41	1	PL 1/2	1'8"		
42	1	PL 1/2	1'8"		
43	1	PL 1/2	1'8"		
44	1	PL 1/2	1'8"		
45	1	PL 1/2	1'8"		
46	1	PL 1/2	1'8"		
47	1	PL 1/2	1'8"		
48	1	PL 1/2	1'8"		
49	1	PL 1/2	1'8"		
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51	1	PL 1/2	1'8"		
52	1	PL 1/2	1'8"		
53	1	PL 1/2	1'8"		
54	1	PL 1/2	1'8"		
55	1	PL 1/2	1'8"		
56	1	PL 1/2	1'8"		
57	1	PL 1/2	1'8"		
58	1	PL 1/2	1'8"		
59	1	PL 1/2	1'8"		
60	1	PL 1/2	1'8"		
61	1	PL 1/2	1'8"		
62	1	PL 1/2	1'8"		
63	1	PL 1/2	1'8"		
64	1	PL 1/2	1'8"		
65	1	PL 1/2	1'8"		
66	1	PL 1/2	1'8"		
67	1	PL 1/2	1'8"		
68	1	PL 1/2	1'8"		
69	1	PL 1/2	1'8"		
70	1	PL 1/2	1'8"		

CITY OF DETROIT
CITY ENGINEERING DEPARTMENT
APPROVED AS NOTED
FOR COMPLIANCE WITH CONTRACT NO. P-1557

THIS APPROVAL SHALL NOT RELIEVE THE CONTRACTOR OF ANY RESPONSIBILITY COVERED BY THE CONTRACT
DATE: MAR 2 1977 BY: [Signature]

PHILIP ZWIG & SONS
2100E BRANE
BUILDING BRANE Bldg. Bldg. Co. Inc.
OWNER: City of Detroit, Mich.
LOCATION: Detroit, Mich.
CONTRACTOR: Walter T. Tabor Construction Company
ARCHITECT: Walter T. Tabor Construction Company
TITLE: STAIRCASE SPAN
DWG NO: 1516 P. L.L.N.
SCALE: AS SHOWN
DATE: 2-17-77
DRAWN: R.P.J. REV: []
CHECKED: R.P.J. REV: []
INCHES: 1/8" = 1'-0"
CONTRACT: 335 SHEET 16 OF 53

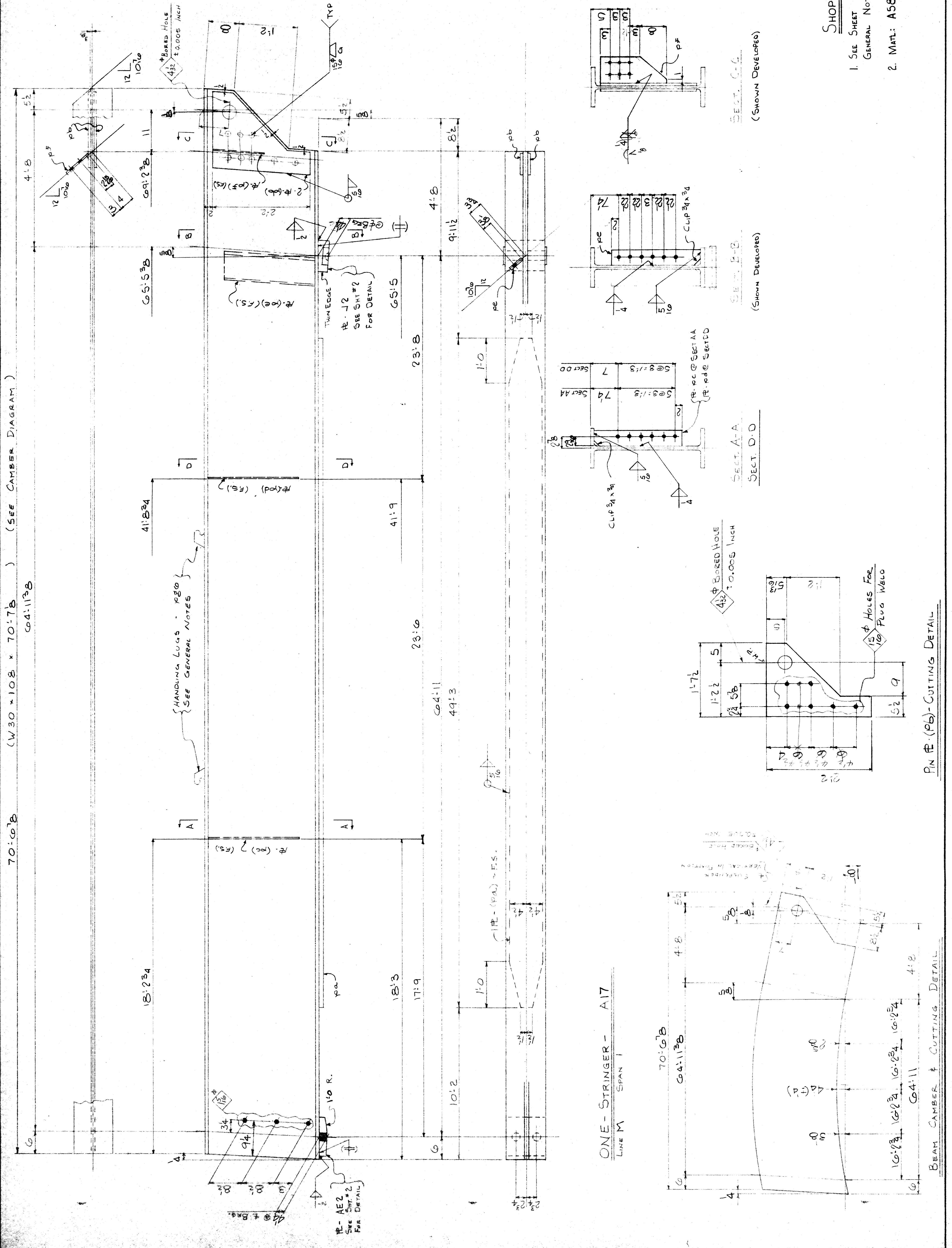


LINE NO.	QUANTITY	UNIT	REMARKS	DATE	BY
1	1	STRINGER			
2	1	W 30x108			
3	1	PL 1/2			
4	2	PL 1/2			
5	1	PL 1/2			
6	1	PL 1/2			
7	1	PL 1/2			
8	1	PL 1/2			
9	1	PL 1/2			
10	1	PL 1/2			
11	1	PL 1/2			
12	1	PL 1/2			
13	1	PL 1/2			
14	1	PL 1/2			
15	1	PL 1/2			
16	1	PL 1/2			
17	1	PL 1/2			
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67	1	PL 1/2			

CITY OF DETROIT
 CITY ENGINEERING DEPARTMENT
APPROVED AS NOTED
 FOR COMPLIANCE WITH CONTRACT No. 16552
 THIS APPROVAL SHALL NOT RELIEVE THE CONTRACTOR
 OF ANY RESPONSIBILITY COVERED BY THE CONTRACT
 DATE: MAR 2, 1977 BY: _____

PHILIP ZWIG & SONS
 2100 E. BTH AVE.
 BUILDING 1000, DETROIT, MICH.
 OWNER: CITY OF DETROIT, MICH.
 LOCATION: DETROIT, MICH.
 CONTRACTOR: WALTER TORBE CONSTRUCTION COMPANY
 ARCHITECT: CITY ENGINEERING DEPT., CITY OF DETROIT, MICH.
 TITLE: STRINGER SPAN I
 DRAWN: R.J.J. DATE: 2-15-77
 HOLES: 1/2" U.N. CHKD: R.P.
 PAINT: NONE
 CONTRACT 335 SHEET 17 OF 53

SHOP NOTES
 1. SEE SHEET E4 FOR GENERAL NOTES.
 2. MATL: A588 U.N.



DRAY BRIDGE, INC.

74:4B (W30 x 132 x 74:4B) (SEE CAMBER DIAGRAM)

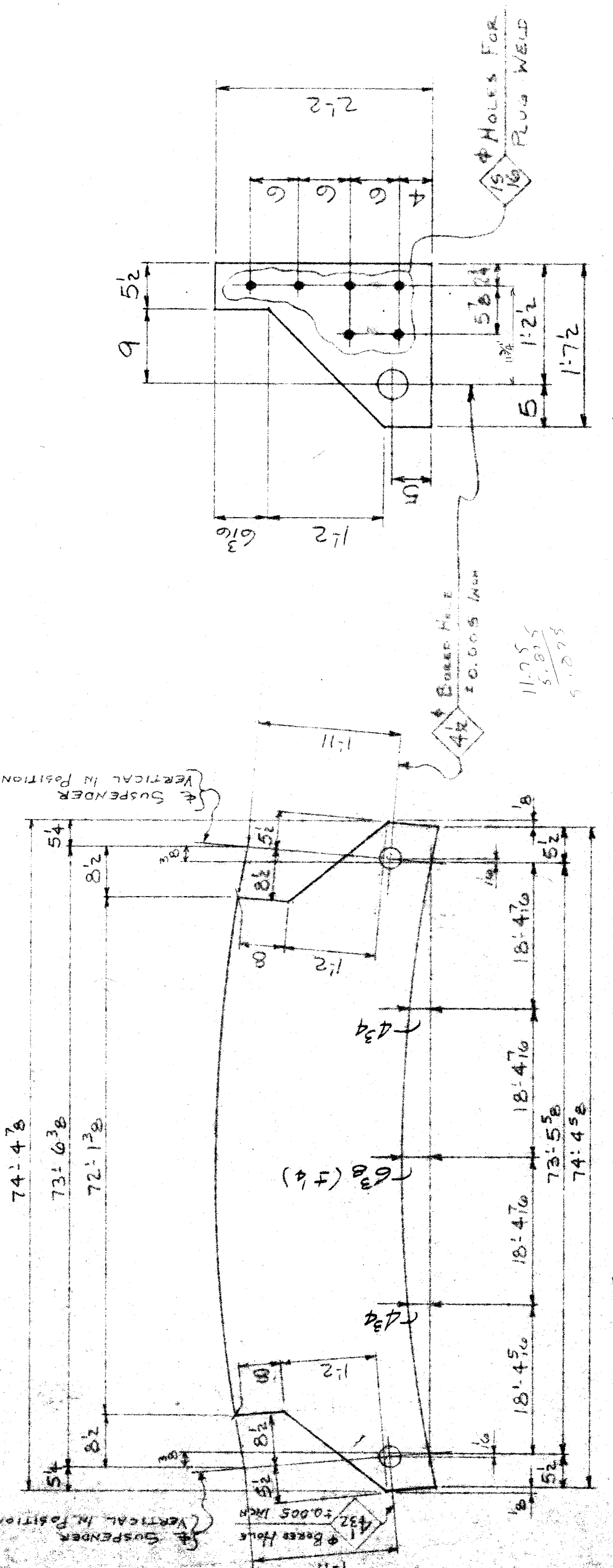
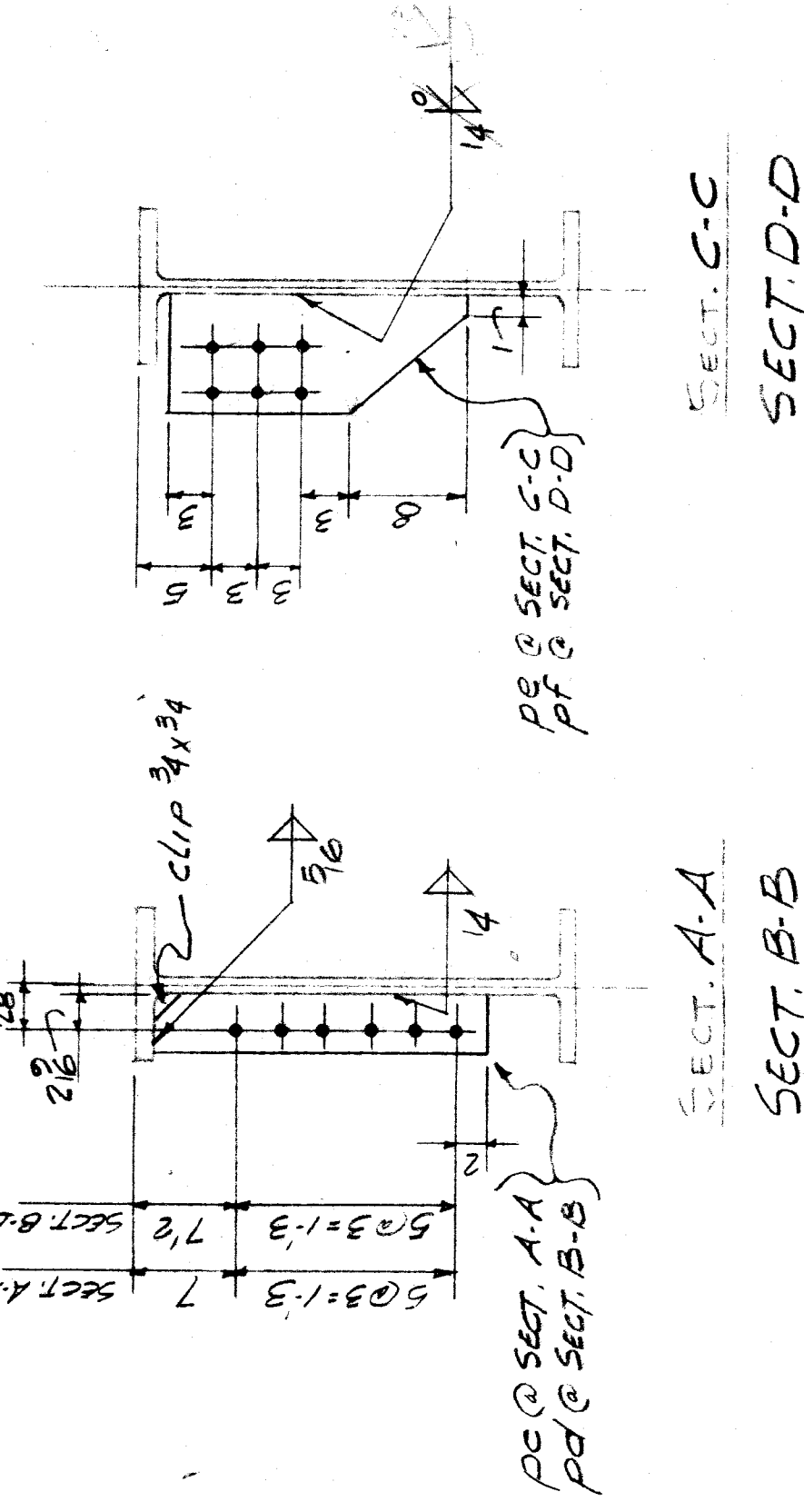
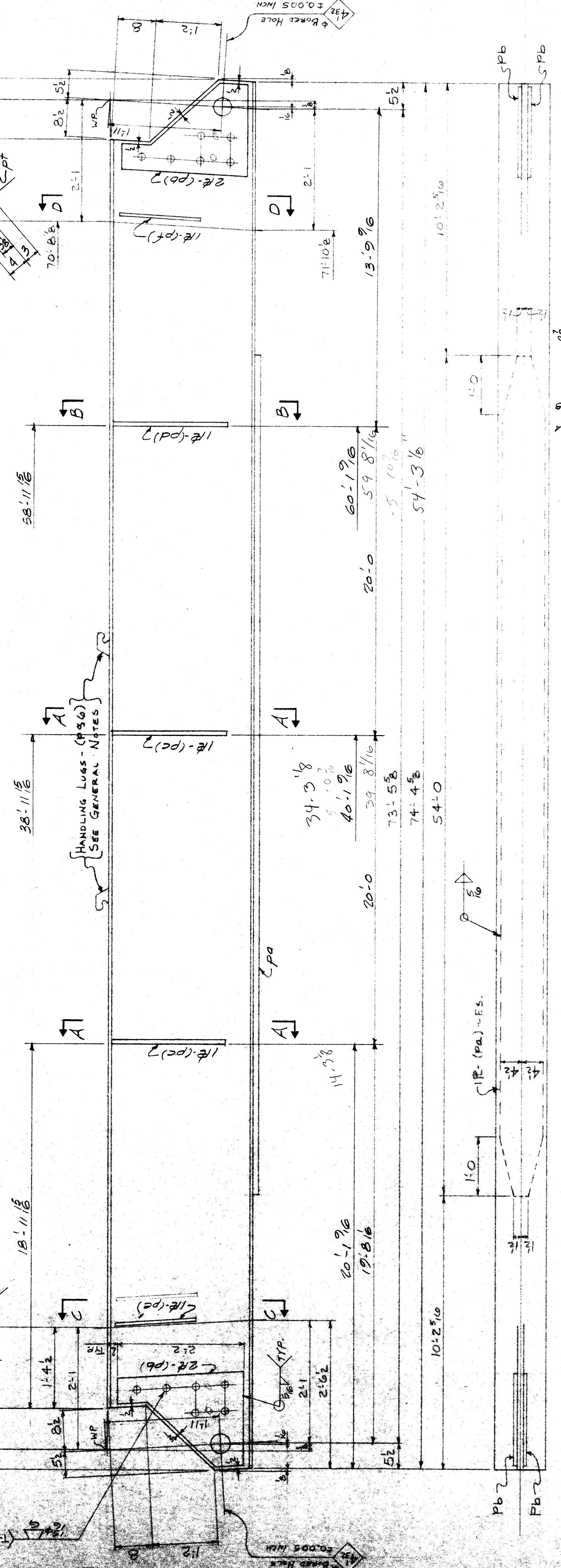
LINE	DESCRIPTION	MATERIAL	SHAPE	LENGTH	REMARKS	DATE
1	STRINGER	W30 x 132	W30 x 132	74' 4"	CW	1/13
2	1" PL	PL	12 x 12	54' 0"	CW	1/13
3	1" PL	PL	2 x 12	11' 3"	CW	1/13
4	1" PL	PL	2 x 12	11' 3"	CW	1/13
5	1" PL	PL	12 x 12	11' 3"	PC	2/16
6	1" PL	PL	12 x 12	11' 3"	PC	2/16
7	1" PL	PL	12 x 12	11' 3"	PC	2/16
8	1" PL	PL	12 x 12	11' 3"	PC	2/16
9	1" PL	PL	12 x 12	11' 3"	PC	2/16
10	1" PL	PL	12 x 12	11' 3"	PC	2/16
11	1" PL	PL	12 x 12	11' 3"	PC	2/16
12	1" PL	PL	12 x 12	11' 3"	PC	2/16
13	1" PL	PL	12 x 12	11' 3"	PC	2/16
14	1" PL	PL	12 x 12	11' 3"	PC	2/16
15	1" PL	PL	12 x 12	11' 3"	PC	2/16
16	1" PL	PL	12 x 12	11' 3"	PC	2/16
17	1" PL	PL	12 x 12	11' 3"	PC	2/16
18	1" PL	PL	12 x 12	11' 3"	PC	2/16
19	1" PL	PL	12 x 12	11' 3"	PC	2/16
20	1" PL	PL	12 x 12	11' 3"	PC	2/16
21	1" PL	PL	12 x 12	11' 3"	PC	2/16
22	1" PL	PL	12 x 12	11' 3"	PC	2/16
23	1" PL	PL	12 x 12	11' 3"	PC	2/16
24	1" PL	PL	12 x 12	11' 3"	PC	2/16
25	1" PL	PL	12 x 12	11' 3"	PC	2/16
26	1" PL	PL	12 x 12	11' 3"	PC	2/16
27	1" PL	PL	12 x 12	11' 3"	PC	2/16
28	1" PL	PL	12 x 12	11' 3"	PC	2/16
29	1" PL	PL	12 x 12	11' 3"	PC	2/16
30	1" PL	PL	12 x 12	11' 3"	PC	2/16
31	1" PL	PL	12 x 12	11' 3"	PC	2/16
32	1" PL	PL	12 x 12	11' 3"	PC	2/16
33	1" PL	PL	12 x 12	11' 3"	PC	2/16
34	1" PL	PL	12 x 12	11' 3"	PC	2/16
35	1" PL	PL	12 x 12	11' 3"	PC	2/16
36	1" PL	PL	12 x 12	11' 3"	PC	2/16
37	1" PL	PL	12 x 12	11' 3"	PC	2/16
38	1" PL	PL	12 x 12	11' 3"	PC	2/16
39	1" PL	PL	12 x 12	11' 3"	PC	2/16
40	1" PL	PL	12 x 12	11' 3"	PC	2/16
41	1" PL	PL	12 x 12	11' 3"	PC	2/16
42	1" PL	PL	12 x 12	11' 3"	PC	2/16
43	1" PL	PL	12 x 12	11' 3"	PC	2/16
44	1" PL	PL	12 x 12	11' 3"	PC	2/16
45	1" PL	PL	12 x 12	11' 3"	PC	2/16
46	1" PL	PL	12 x 12	11' 3"	PC	2/16
47	1" PL	PL	12 x 12	11' 3"	PC	2/16
48	1" PL	PL	12 x 12	11' 3"	PC	2/16
49	1" PL	PL	12 x 12	11' 3"	PC	2/16
50	1" PL	PL	12 x 12	11' 3"	PC	2/16
51	1" PL	PL	12 x 12	11' 3"	PC	2/16
52	1" PL	PL	12 x 12	11' 3"	PC	2/16
53	1" PL	PL	12 x 12	11' 3"	PC	2/16
54	1" PL	PL	12 x 12	11' 3"	PC	2/16
55	1" PL	PL	12 x 12	11' 3"	PC	2/16
56	1" PL	PL	12 x 12	11' 3"	PC	2/16
57	1" PL	PL	12 x 12	11' 3"	PC	2/16
58	1" PL	PL	12 x 12	11' 3"	PC	2/16
59	1" PL	PL	12 x 12	11' 3"	PC	2/16
60	1" PL	PL	12 x 12	11' 3"	PC	2/16
61	1" PL	PL	12 x 12	11' 3"	PC	2/16
62	1" PL	PL	12 x 12	11' 3"	PC	2/16
63	1" PL	PL	12 x 12	11' 3"	PC	2/16
64	1" PL	PL	12 x 12	11' 3"	PC	2/16
65	1" PL	PL	12 x 12	11' 3"	PC	2/16
66	1" PL	PL	12 x 12	11' 3"	PC	2/16
67	1" PL	PL	12 x 12	11' 3"	PC	2/16

CITY OF DETROIT
 CITY ENGINEERING DEPARTMENT
APPROVED AS NOTED
 FOR CO. PLIANCE WITH CONTRACT NO. N 6588
 THIS APPROVAL SHALL NOT RELIEVE THE CONTRACTOR OF ANY RESPONSIBILITY COVERED BY THE CONTRACT.
 DATE: MAR 2, 1927 BY: *[Signature]*

PHILIP ZWEIG & SONS
 2100 E. STAMPA
 BUILDING BRUSH AVE. BEYOND GRASSING THE P.E.E.R.
 OWNER: CITY OF DETROIT, MICH.
 LOCATION: DETROIT, MICH.
 CONTRACTOR: WALTER T. GIBBS, CONSULTING ENGINEER
 ARCHITECT: CITY ENGINEERING DEPT., CITY OF DETROIT, MICH.
 TITLE: STRINGER SPAN 2

RIVETS NONE
 HOLES 1/16" Ø U.N.
 PAINT NONE
 CHECKED BY: *[Signature]* DATE: 2-17-27
 REV. BY: *[Signature]* REV. NO. *[Number]*

CONTRACT 335 SHEET 18 of 53



SHOP NOTES
 1. SEE SHEET E4 FOR GENERAL NOTES.
 2. MATL: A552 U.N.

PIN (PB) - CUTTING DETAIL

ONE - STRINGER - A/B
 LINE A SPAN 2

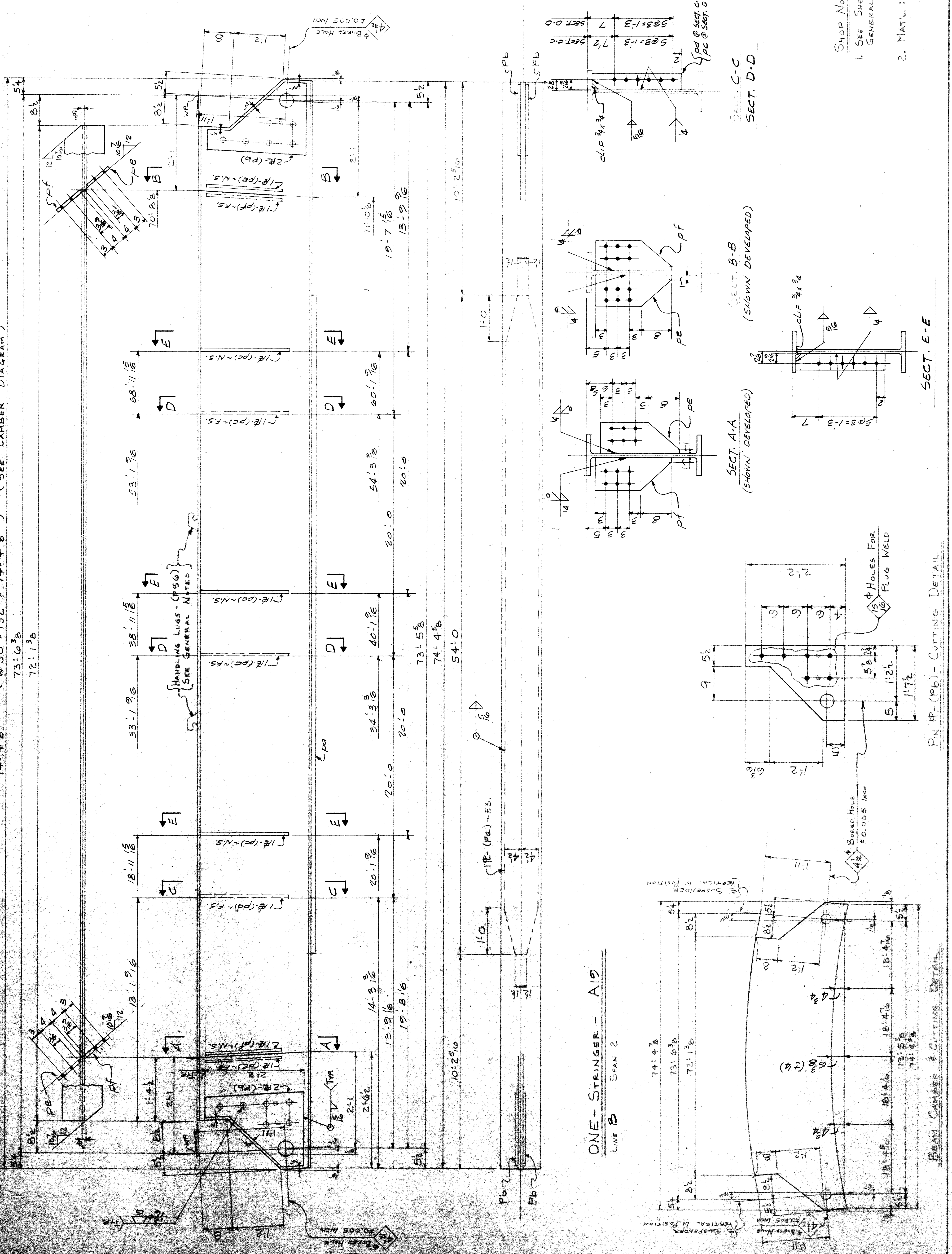
BEAM CAMBER & CUTTING DETAIL

74'-4 3/8 (W 30 x 132 x 74'-4 3/8) (SEE CAMBER DIAGRAM)

LINE NO.	QUANTITY	DESCRIPTION	UNIT	REMARKS
1	1	STRINGER	74'-4 3/8	C/W
2	1	W 30 x 132	74'-4 3/8	C/W
3	1	PL 1/2 x 9	54'-0"	C/W
4	4	PL 2 1/2 x 4	22'	C/W
5	1	PL 2 1/2 x 4	11'	PC
6	1	PL 2 1/2 x 4	11'	PC
7	2	PL 2 1/2 x 4	11'	PC
8	2	PL 2 1/2 x 4	11'	PC
9	2	PL 2 1/2 x 4	11'	PC
10	2	PL 2 1/2 x 4	11'	PC

CITY OF DETROIT
CITY ENGINEERING DEPARTMENT
APPROVED AS NOTED
FOR CO. PLUMBE WITH CONTRACT NO. 10558 AS NOTED
THIS APPROVAL SHALL NOT RELIEVE THE CONTRACTOR OF ANY RESPONSIBILITY COVERED BY THE CONTRACT
DATE: MAR 2 1917 BY: _____

PHILIP ZWEIF & SONS
2100 E. STRAIVE
BUILDING BRIDGE AVE. BRIDGE CROSSING THE P.C.R.P.
OWNER: CITY OF DETROIT, MICH.
LOCATION: DETROIT, MICH.
CONTRACTOR: WALTER TOBEK CONSTRUCTION COMPANY
ARCHITECT: CITY ENGINEERING DEPT., CITY OF DETROIT, MICH.
TITLE: STRINGER SPAN 2
RIVETS NONE
HOLES 5/16" Ø U.N.
DRAWN BY: U.N.
CHKD BY: R.P.J.
DATE: 2-1-17
PAINT: NONE
REV. _____
CONTRACT 335
SHEET 19 of 53



SHOP NOTES
1. SEE SHEET E-4 FOR GENERAL NOTES.
2. MATL: A588 U.N.

ONE-STRINGER - A19
LINE B SPAN 2

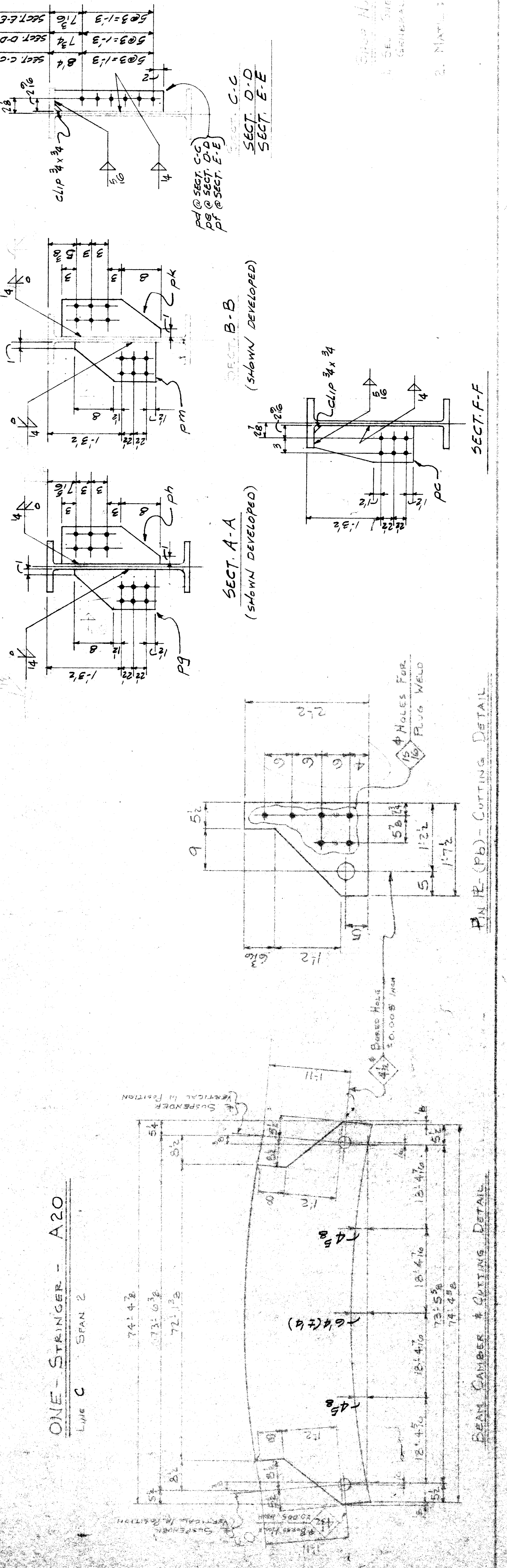
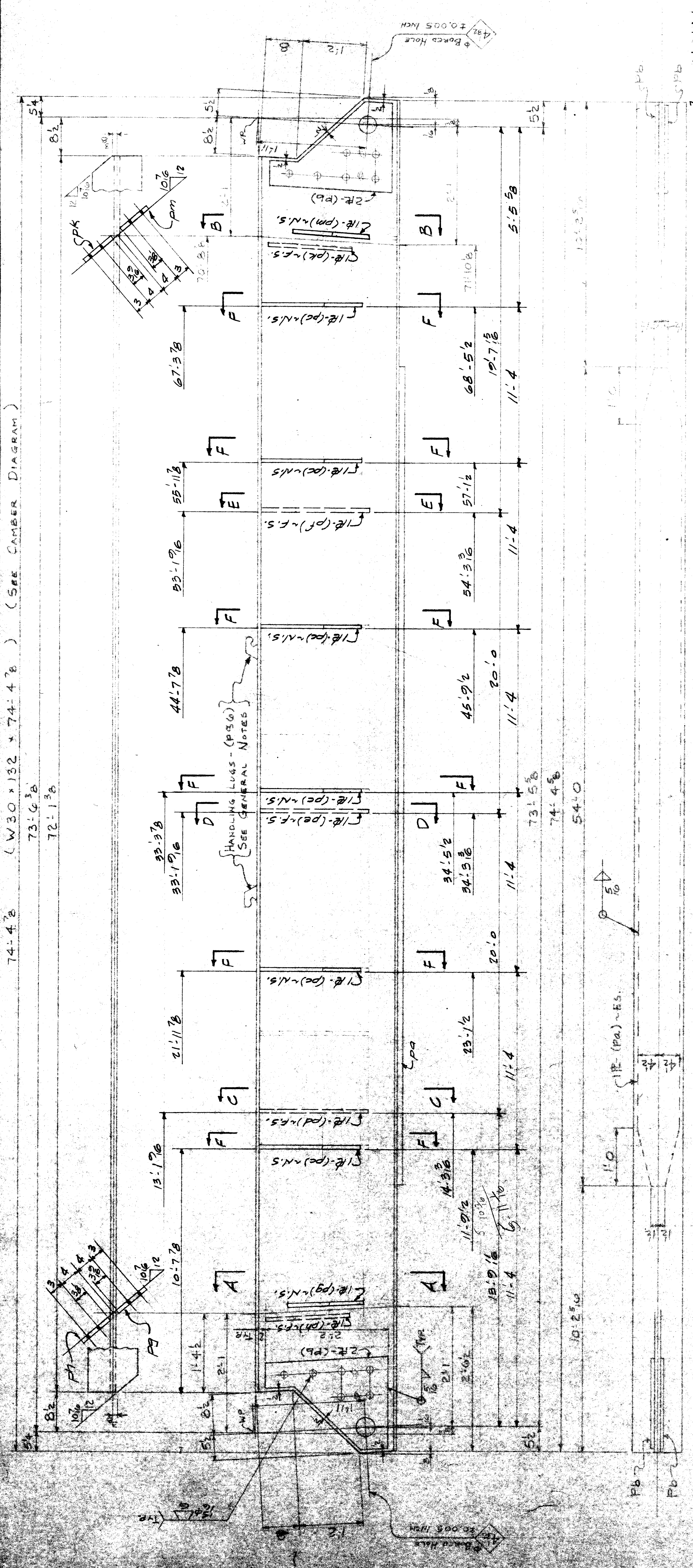
BEAM CAMBER & CUTTING DETAIL
P.N. R-(PB) - CUTTING DETAIL

74'-4" (W30 x 132 x 74'-4") (SEE CAMBER DIAGRAM)

LINE NO.	QTY	SHAPE	LENGTH	ASSEMBLY MARK	REMARKS	ORDERED
1	5	ANGLE				
2	1	W30 x 132	74'-4"	A20	CWN	1/3
3	4	R 12 x 9	54'-0"	P2	CWN	1/3
4	4	R 12 x 9	22	P6	CWN	1/3
5	6	R 12 x 7	19	PC		1/3
6	1	R 12 x 4	2	PD		2/6
7	1	R 12 x 4	1	PE		2/6
8	1	R 12 x 4	1	PF		2/6
9	1	R 12 x 5	1	PG		2/6
10	1	R 12 x 5	1	PH		2/6
11	1	R 12 x 8	1	PK		2/6
12	1	R 12 x 4	1	PL		2/6
13	2	R 12 x 4	0	PM		2/6
14	2	R 12 x 4	0	PN		2/6
15						
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CITY OF DETROIT
CITY ENGINEERING DEPARTMENT
APPROVED AS NOTED
EST. CO. LICENSE WITH CONTRACT No. 146552
DATE MAR 2 1917

PHILIP ZWEIF & SONS
2101 W. WYOMING
BUILDING DEPT. 2ND FLOOR
CITY ENGINEERING DEPARTMENT
CONTRACTOR
ARCHITECT
TITLE
DATE 2-1-17
REV
SHEET 20 of 53



2. NAME: A20 U.M.
CONTRACT

LINE NO.	QUANTITY	UNIT	DESCRIPTION	REMARKS	DATE
1	1	STRINGER	74' 4"		
2	1	W 30 x 132	74' 4"		
3	1	RE 12 x 9	540		
4	4	RE 2 x 12	2		
5	3	RE 2 x 4	1		
6	1	RE 1/2 x 7	1		
7	1	RE 1/2 x 7	1		
8	1	RE 1/2 x 7	1		
9	1	RE 1/2 x 7	1		
10	1	RE 1/2 x 7	1		
11	1	RE 1/2 x 7	1		
12	1	RE 1/2 x 7	1		
13	1	RE 1/2 x 7	1		
14	1	RE 1/2 x 7	1		
15	1	RE 1/2 x 7	1		
16	2	RE 1/2 x 7	1		
17	2	RE 1/2 x 7	1		
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CITY OF DETROIT
CITY ENGINEERING DEPARTMENT
APPROVED

FOR SO LLENCE WITH CONTRACT NO. 101165 AS NOTED

THIS APPROVAL IS NOT BEYOND THE CONTRACTOR OF ANY RESPONSIBILITY COVERED BY THE CONTRACT

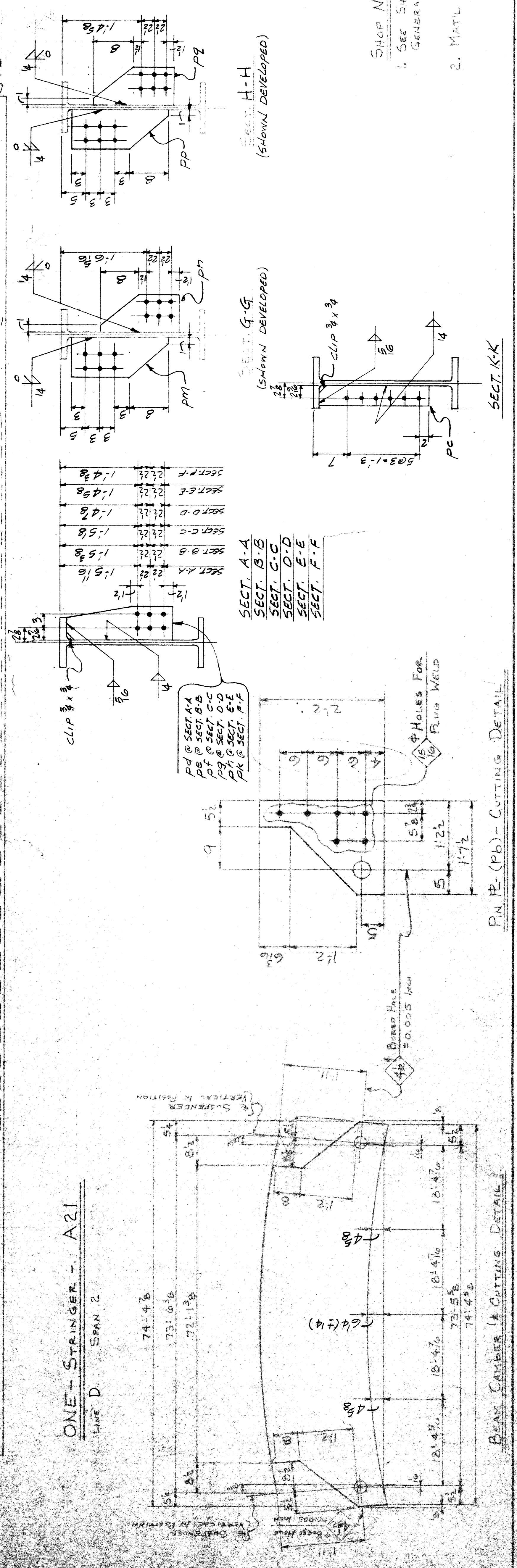
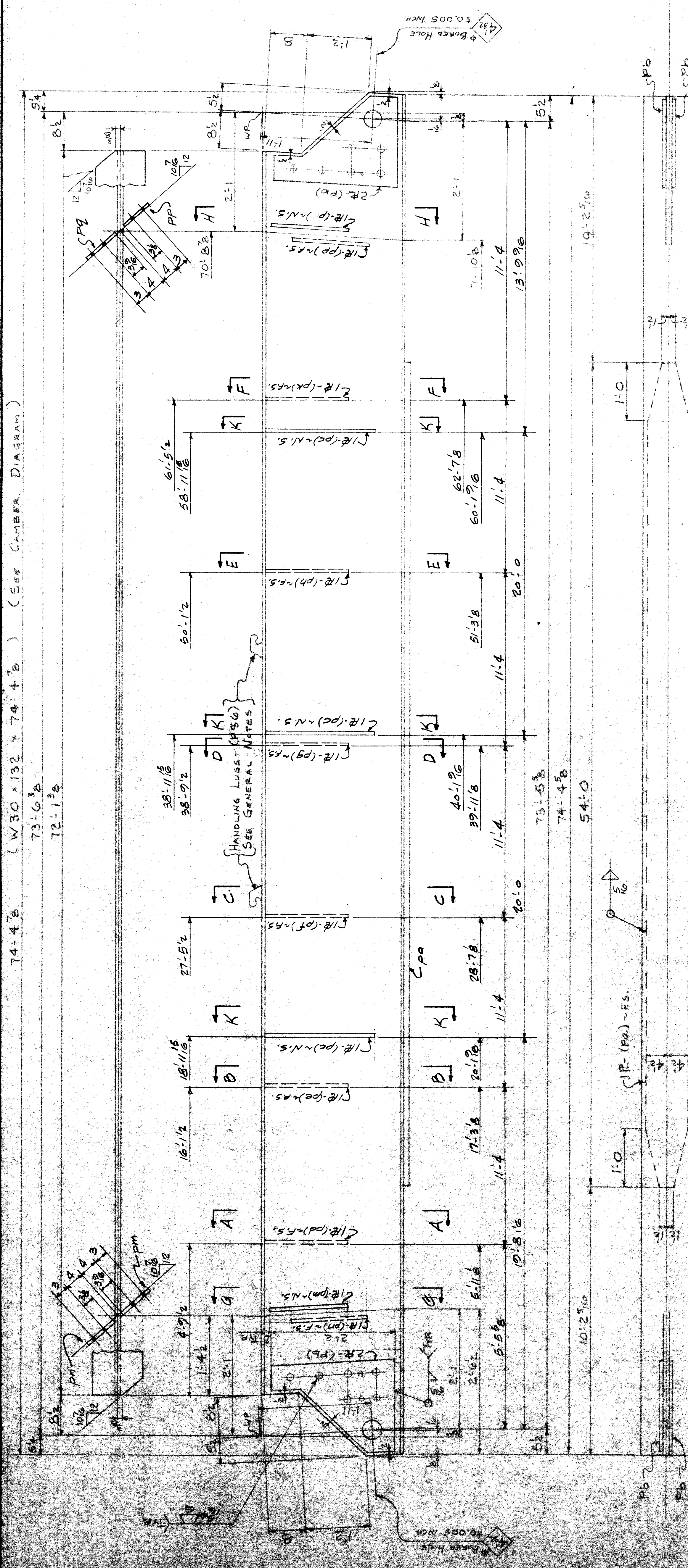
DATE: MAR 2 1977

PHILIP ZWEIF & SONS
 2100 STRAIVE
 BUILDING BRADLEY AVE. BRIDGE CROSSING THE P.C.R.R.
 OWNER: CITY OF DETROIT, MICH.
 LOCATION: DETROIT, MICH.
 CONTRACTOR: WATER TOWER CONSTRUCTION COMPANY
 ARCHITECT: CITY ENGINEERING DEPT., CITY OF DETROIT, MICH.
 TITLE: STRINGER, SPAN 2

RIVETS: NONE
 HOLES: 3/16" φ D/N.
 PAINT: NONE

DATE: 12-1-77
 DRAWN: JAW
 CHECKED: CAC
 REV: 1

CONTRACT: 335
 SHEET: 21 OF 53

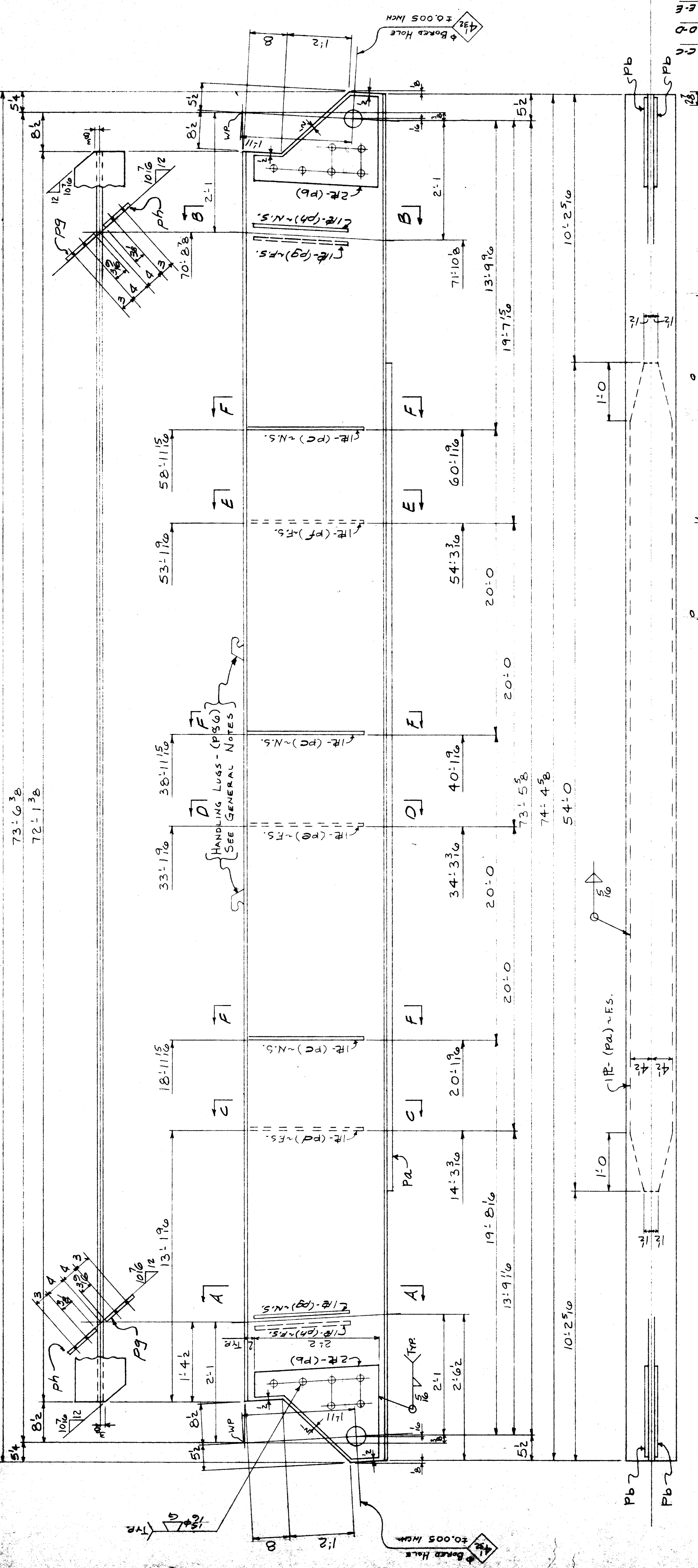


SHOP NOTES
 1. SEE SHEET E4 FOR GENERAL NOTES.
 2. MATL: A588 U.N.

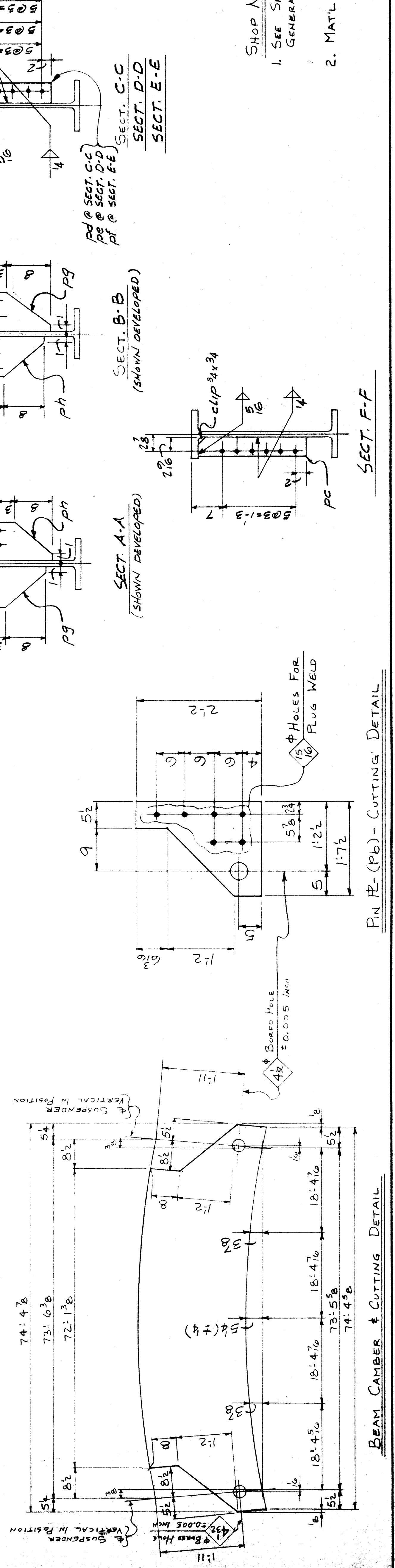
PIN R-(P6) - CUTTING DETAIL

BEAM CAMBER (A CUTTING DETAIL)

74'-4 3/8 (W 30 x 132 x 74'-4 3/8) (SEE CAMBER DIAGRAM)



ONE-STRINGER - A22
LINE E SPAN 2



BEAM CAMBER & CUTTING DETAIL

PIN PL-(PB) - CUTTING DETAIL

NO.	QTY	DESCRIPTION	UNIT	REMARKS
1	1	5 STRINGER	A22	
2	1	W 30 x 132	74'-4 3/8	C/W
3	1	PL 1/2 x 19	54'-0"	C/W
4	4	PL 1/2 x 19	2'-2"	C/W
5	3	PL 1/2 x 4	1'-11"	PC
6	1	PL 1/2 x 4	2'-0"	PC
7	1	PL 1/2 x 4	2'-0"	PC
8	1	PL 1/2 x 4	1'-11"	PC
9	2	PL 1/2 x 8	1'-8"	PC
10	2	PL 1/2 x 8	1'-8"	PC
11	2	PL 1/2 x 8	0'-6"	PC

CITY OF DETROIT
CITY ENGINEERING DEPARTMENT
APPROVED AS NOTED

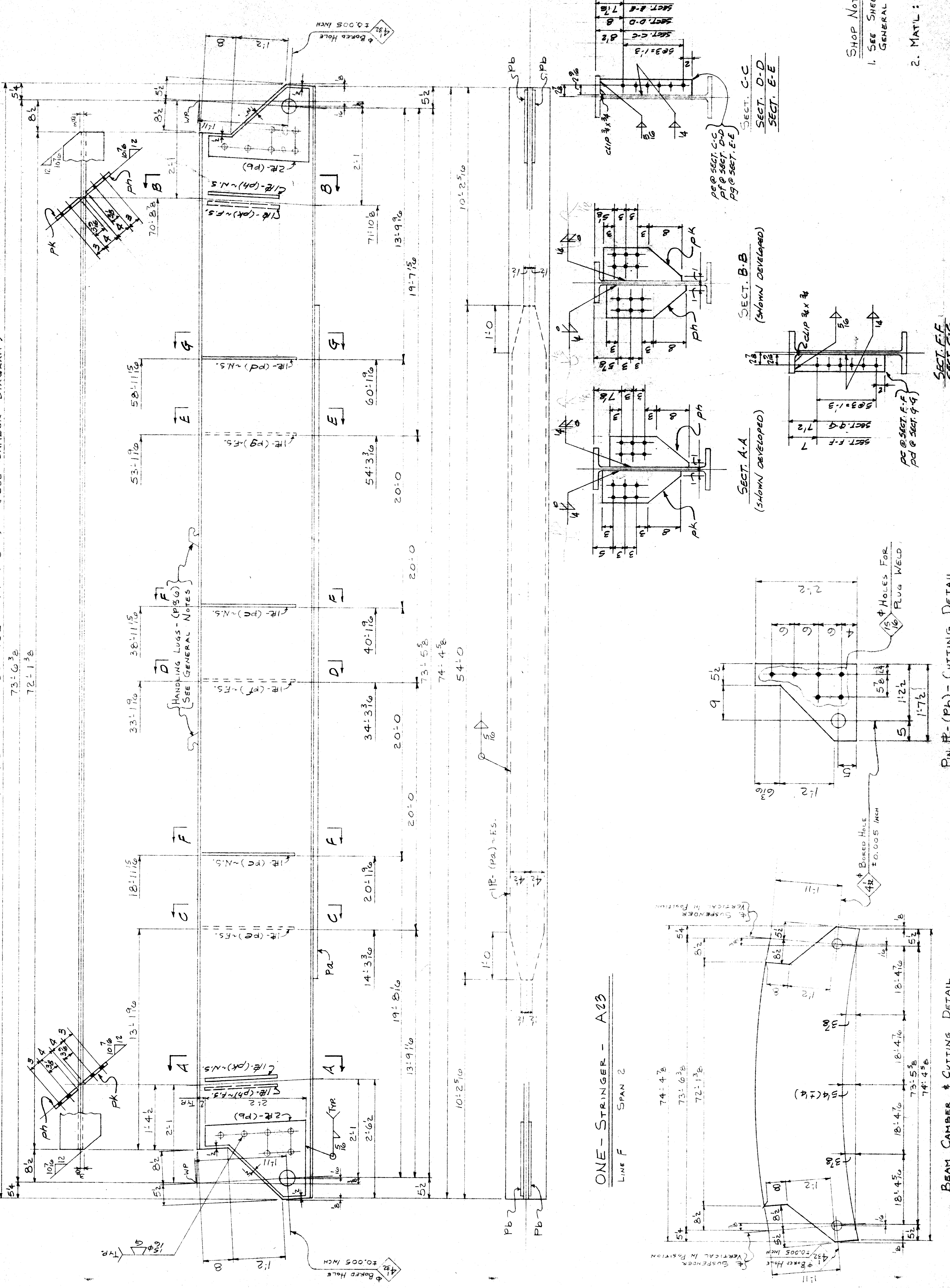
FOR COMPLIANCE WITH CONTRACT NO. 146557
THIS APPROVAL SHALL NOT BE THE CONTRACTOR'S RESPONSIBILITY COVERED BY THE CONTRACT
DATE: MAR 2 1917

PHILIP ZWEIF & SONS
2100 E. 9TH AVE.
BUILDING BASELY AVE. BLDG. CORNERING THE P.C.R.R.
CITY OF DETROIT, MICH.
CONTRACTOR WATER TOWER CONSTRUCTION COMPANY
ARCHITECT CITY ENGINEERING DEPT., CITY OF DETROIT, MICH.
TITLE: STRINGER SPAN 2
DRAWN: J.W. U.N.
CHECK: J.P.J.
REV. NO. REV. DATE 2-3-17
SHEET 22 OF 53

SHOP NOTES
1. SEE SHEET E4 FOR GENERAL NOTES.
2. MATL: A588 U.N.

74'-4" (W 30 x 132 x 74'-4") (SEE CAMBER DIAGRAM)

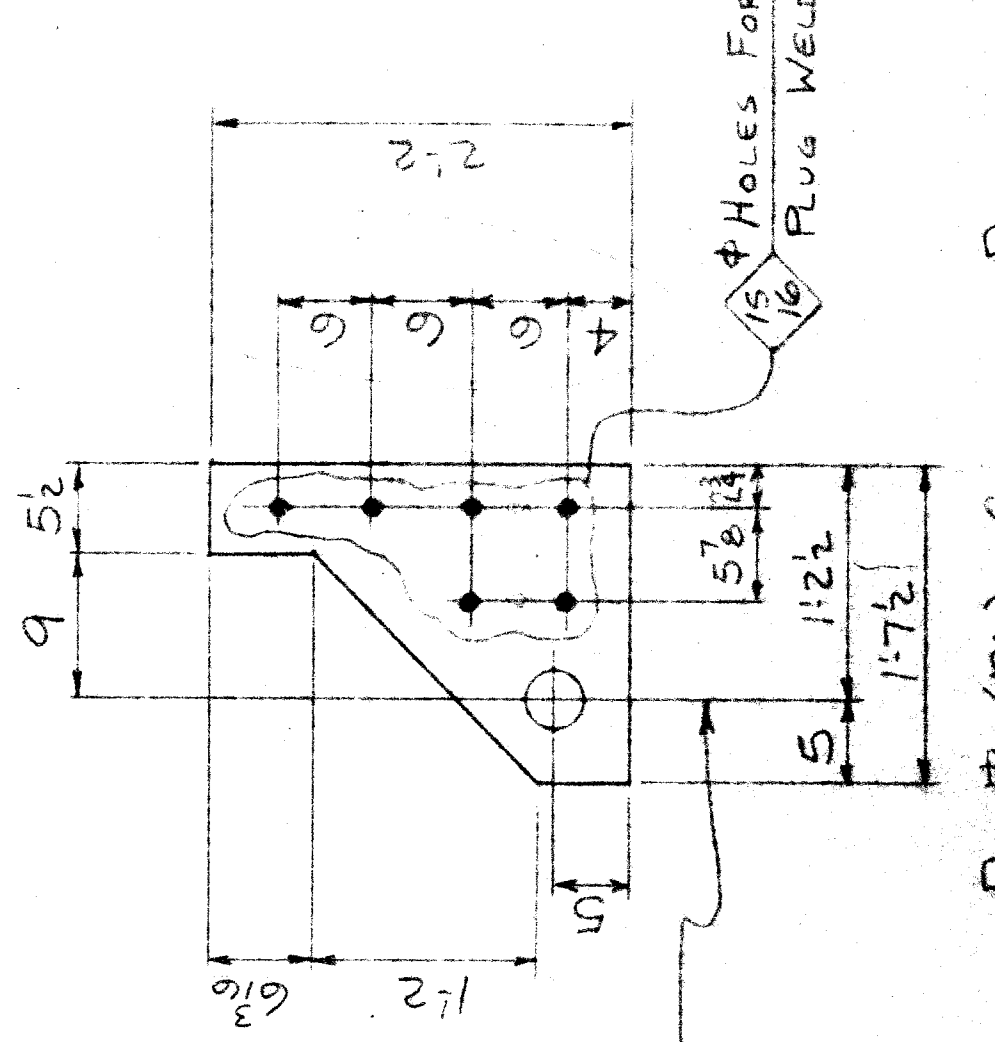
73'-6"
72'-13"



ONE-STRINGER - A23
LINE F SPAN 2

74'-4"
73'-6"
72'-13"

BEAM CAMBER & CUTTING DETAIL



PIN PL-(PB) - CUTTING DETAIL

LINE NO.	QUANTITY	UNIT	MATERIAL	DESCRIPTION	REVISIONS	DATE
1	1	W 30 x 132	STRINGER			
2	4	RP 1/2	PLATE			
3	2	RP 1/2	PLATE			
4	2	RP 1/2	PLATE			
5	1	RP 1/2	PLATE			
6	1	RP 1/2	PLATE			
7	2	RP 1/2	PLATE			
8	1	RP 1/2	PLATE			
9	2	RP 1/2	PLATE			
10	2	RP 1/2	PLATE			
11	2	RP 1/2	PLATE			
12	2	RP 1/2	PLATE			
13	0					
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CITY OF DETROIT
CITY ENGINEERING DEPARTMENT
APPROVED AS NOTED

FOR COMPLIANCE WITH CONTRACT NO. 2015557
THIS APPROVAL SHALL NOT RELIEVE THE CONTRACTOR
OF ANY RESPONSIBILITY COVERED BY THE CONTRACT
DATE: MAR 2 1917

PHILIP ZWIG & SONS
2102 E. STRONG
BUILDING BRADLEY AVE. BRIDGE CROSSING THE P.C.R.R.
OWNER: CITY OF DETROIT, MICH.
LOCATION: DETROIT, MICH.
CONTRACTOR: WALTER TOBEK CONSTRUCTION COMPANY
ARCHITECT: CITY ENGINEERING DEPARTMENT, MICH.
TITLE: BRIDGE SPAN 2
DRAWN BY: L.A.V.
CHECKED BY: G.C.C.
DATE: 2-1-17
REV: _____
CONTRACT 335 SHEET 23 OF 53

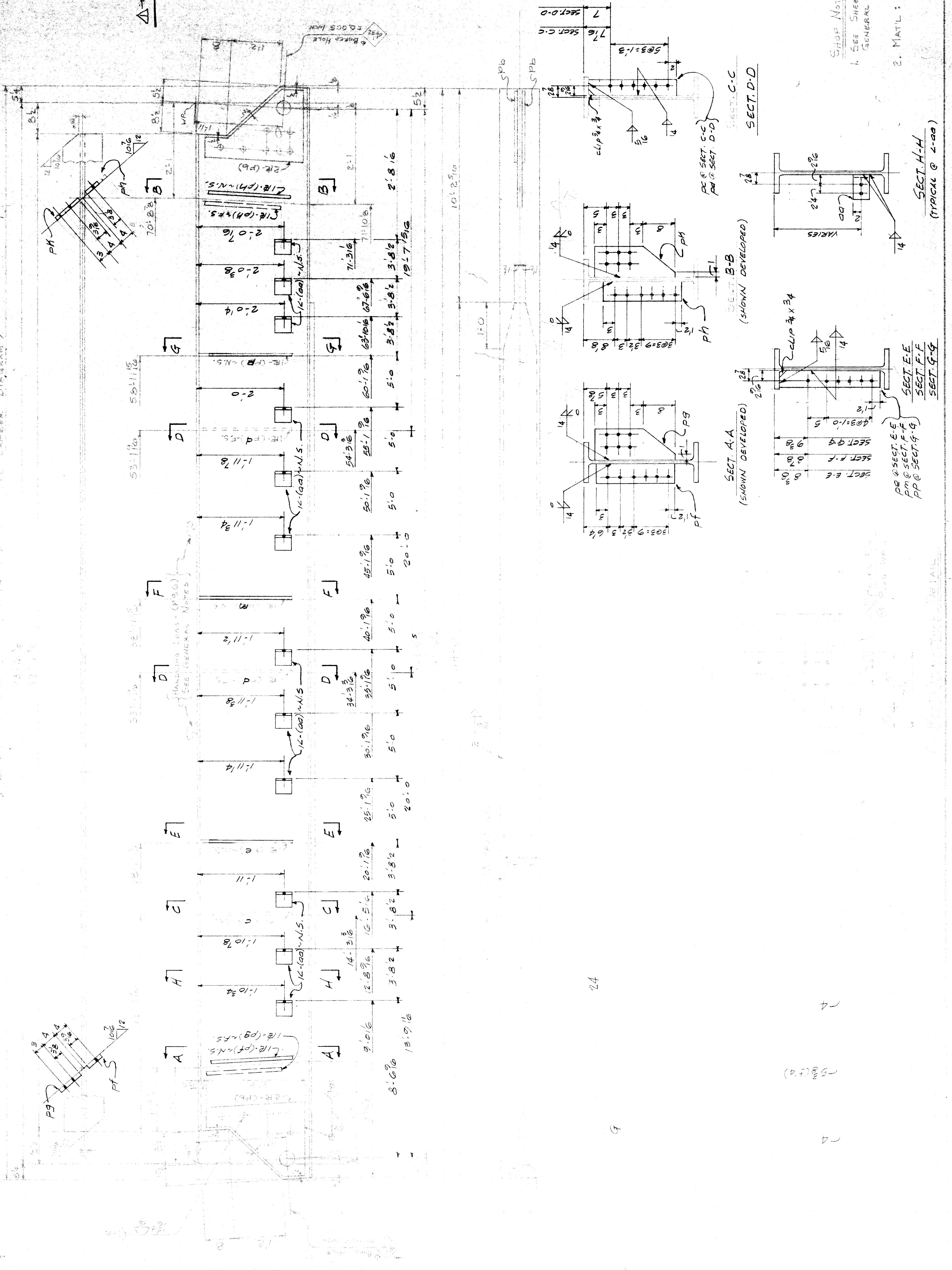
SHOP NOTES
1. SEE SHEET E4 FOR GENERAL NOTES.

2. MATL: A588 U.M.

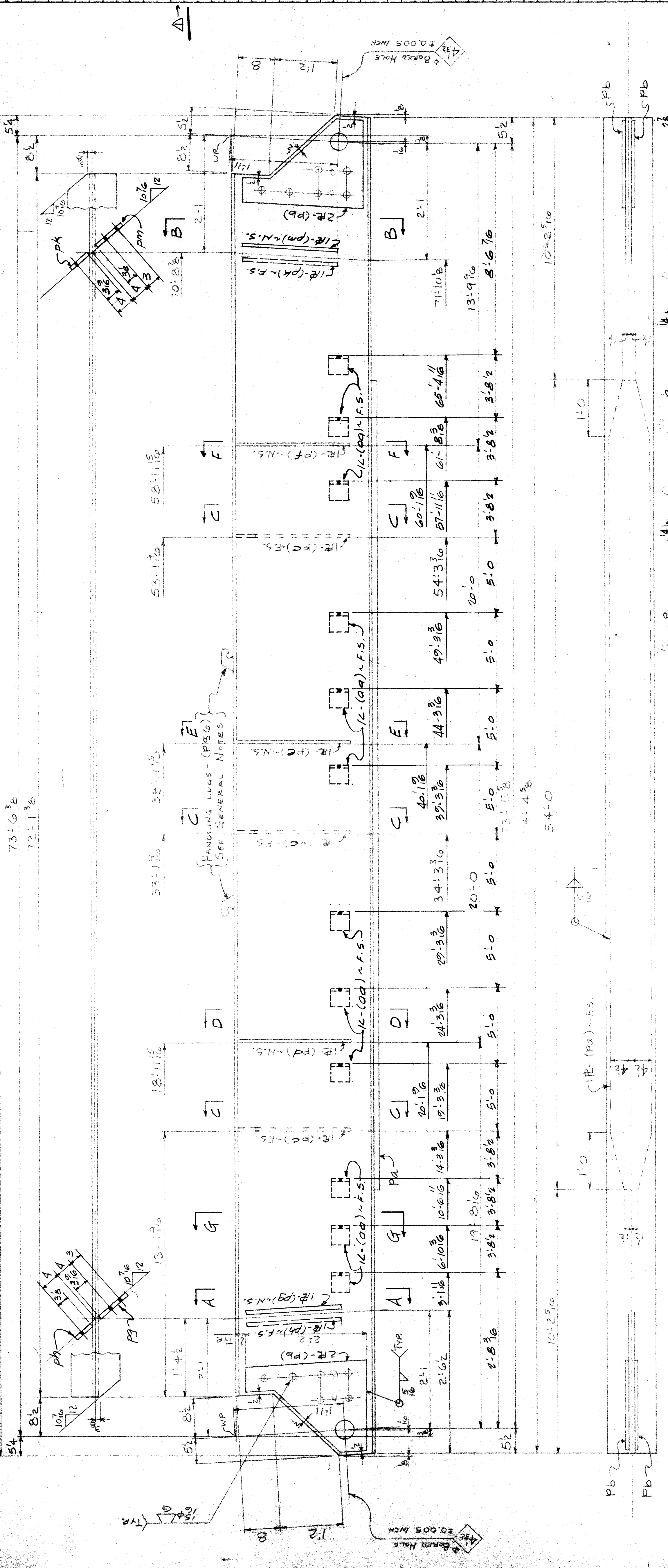
NO.	QTY.	DESCRIPTION	UNIT	MATERIAL	REMARKS	ORDERED	TIME	APPROVED
1	1	5" x 8" x 1/2" PL	EA	A 22				
2	1	W 30 x 132	EA		CIV			
3	1	2" x 12" x 1/4" PL	EA		CIV			
4	1	2" x 12" x 1/4" PL	EA		CIV			
5	1	2" x 12" x 1/4" PL	EA		CIV			
6	1	2" x 12" x 1/4" PL	EA		CIV			
7	1	2" x 12" x 1/4" PL	EA		CIV			
8	1	2" x 12" x 1/4" PL	EA		CIV			
9	1	2" x 12" x 1/4" PL	EA		CIV			
10	1	2" x 12" x 1/4" PL	EA		CIV			
11	1	2" x 12" x 1/4" PL	EA		CIV			
12	1	2" x 12" x 1/4" PL	EA		CIV			
13	1	2" x 12" x 1/4" PL	EA		CIV			
14	1	2" x 12" x 1/4" PL	EA		CIV			
15	1	2" x 12" x 1/4" PL	EA		CIV			
16	1	2" x 12" x 1/4" PL	EA		CIV			
17	1	2" x 12" x 1/4" PL	EA		CIV			
18	1	2" x 12" x 1/4" PL	EA		CIV			
19	1	2" x 12" x 1/4" PL	EA		CIV			
20	1	2" x 12" x 1/4" PL	EA		CIV			
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22	1	2" x 12" x 1/4" PL	EA		CIV			
23	1	2" x 12" x 1/4" PL	EA		CIV			
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26	1	2" x 12" x 1/4" PL	EA		CIV			
27	1	2" x 12" x 1/4" PL	EA		CIV			
28	1	2" x 12" x 1/4" PL	EA		CIV			
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30	1	2" x 12" x 1/4" PL	EA		CIV			
31	1	2" x 12" x 1/4" PL	EA		CIV			
32	1	2" x 12" x 1/4" PL	EA		CIV			
33	1	2" x 12" x 1/4" PL	EA		CIV			
34	1	2" x 12" x 1/4" PL	EA		CIV			
35	1	2" x 12" x 1/4" PL	EA		CIV			
36	1	2" x 12" x 1/4" PL	EA		CIV			
37	1	2" x 12" x 1/4" PL	EA		CIV			
38	1	2" x 12" x 1/4" PL	EA		CIV			
39	1	2" x 12" x 1/4" PL	EA		CIV			
40	1	2" x 12" x 1/4" PL	EA		CIV			
41	1	2" x 12" x 1/4" PL	EA		CIV			
42	1	2" x 12" x 1/4" PL	EA		CIV			
43	1	2" x 12" x 1/4" PL	EA		CIV			
44	1	2" x 12" x 1/4" PL	EA		CIV			
45	1	2" x 12" x 1/4" PL	EA		CIV			
46	1	2" x 12" x 1/4" PL	EA		CIV			
47	1	2" x 12" x 1/4" PL	EA		CIV			
48	1	2" x 12" x 1/4" PL	EA		CIV			
49	1	2" x 12" x 1/4" PL	EA		CIV			
50	1	2" x 12" x 1/4" PL	EA		CIV			
51	1	2" x 12" x 1/4" PL	EA		CIV			
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54	1	2" x 12" x 1/4" PL	EA		CIV			
55	1	2" x 12" x 1/4" PL	EA		CIV			
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57	1	2" x 12" x 1/4" PL	EA		CIV			
58	1	2" x 12" x 1/4" PL	EA		CIV			
59	1	2" x 12" x 1/4" PL	EA		CIV			
60	1	2" x 12" x 1/4" PL	EA		CIV			
61	1	2" x 12" x 1/4" PL	EA		CIV			
62	1	2" x 12" x 1/4" PL	EA		CIV			
63	1	2" x 12" x 1/4" PL	EA		CIV			
64	1	2" x 12" x 1/4" PL	EA		CIV			
65	1	2" x 12" x 1/4" PL	EA		CIV			
66	1	2" x 12" x 1/4" PL	EA		CIV			
67	1	2" x 12" x 1/4" PL	EA		CIV			
68	1	2" x 12" x 1/4" PL	EA		CIV			
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70	1	2" x 12" x 1/4" PL	EA		CIV			
71	1	2" x 12" x 1/4" PL	EA		CIV			
72	1	2" x 12" x 1/4" PL	EA		CIV			
73	1	2" x 12" x 1/4" PL	EA		CIV			
74	1	2" x 12" x 1/4" PL	EA		CIV			
75	1	2" x 12" x 1/4" PL	EA		CIV			
76	1	2" x 12" x 1/4" PL	EA		CIV			
77	1	2" x 12" x 1/4" PL	EA		CIV			
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79	1	2" x 12" x 1/4" PL	EA		CIV			
80	1	2" x 12" x 1/4" PL	EA		CIV			
81	1	2" x 12" x 1/4" PL	EA		CIV			
82	1	2" x 12" x 1/4" PL	EA		CIV			
83	1	2" x 12" x 1/4" PL	EA		CIV			
84	1	2" x 12" x 1/4" PL	EA		CIV			
85	1	2" x 12" x 1/4" PL	EA		CIV			
86	1	2" x 12" x 1/4" PL	EA		CIV			
87	1	2" x 12" x 1/4" PL	EA		CIV			

CITY OF DETROIT
 CITY ENGINEERING DEPARTMENT
APPROVED AS SHOWN
 FOR COMPLIANCE WITH CONTRACT NO. PM 653.
 THIS APPROVAL SHALL NOT RELIEVE THE CONTRACTOR OF ANY RESPONSIBILITY COVERED BY THE CONTRACT.
 DATE: MAR 2 1977 BY: _____

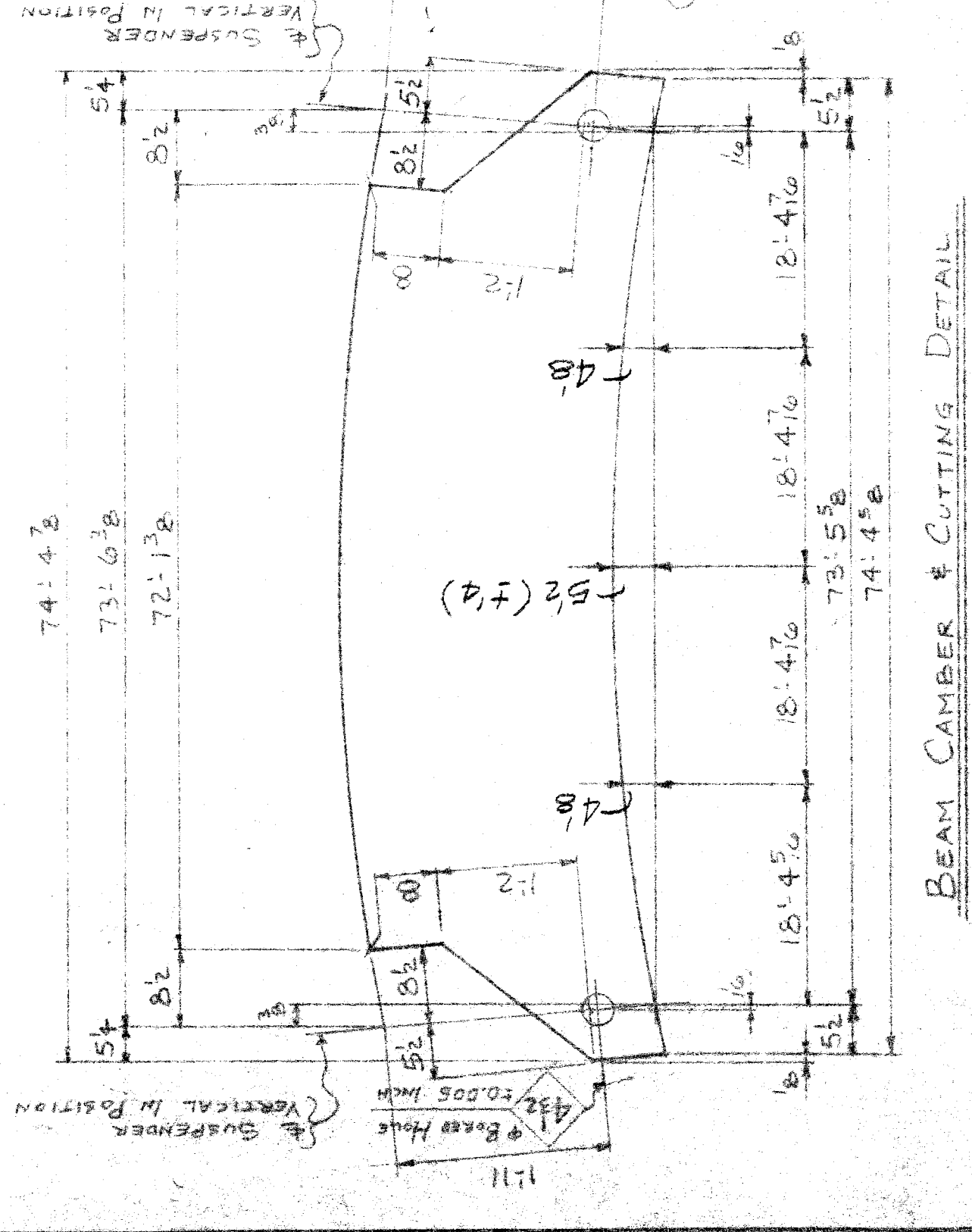
PHILIP ZWEIF & SONS
 2100 STATE ST. GARY, IND.
 BUILDING BRANCH, 400 E. WOODWARD, DETROIT, MICH.
 OWNER: CITY OF DETROIT
 LOCATION: DETROIT, MICH.
 CONTRACTOR: WALTER TOBIAS CONSTRUCTION COMPANY
 ARCHITECT: CITY ENGINEERING DEPARTMENT, CITY OF DETROIT, MICH.
 TITLE: STEELWORKER 522-N-2
 RIVETS: NONE
 HOLES: 5/16" @ 12" O.C.
 PAINT: NONE
 DRAWN: J.M. / DATE: 2-7-77
 CHKD: R.P.J.
 REVISED: 2-7-77
 CONTRACT: 335
 SHEET: 24 OF 53



74'-4 3/8 (W30 x 132 x 74'-4 3/8) (SEE CAMBER DIAGRAM)



ONE - STRINGER - A 25
LINEH SPAN 2



BEAM CAMBER & CUTTING DETAIL

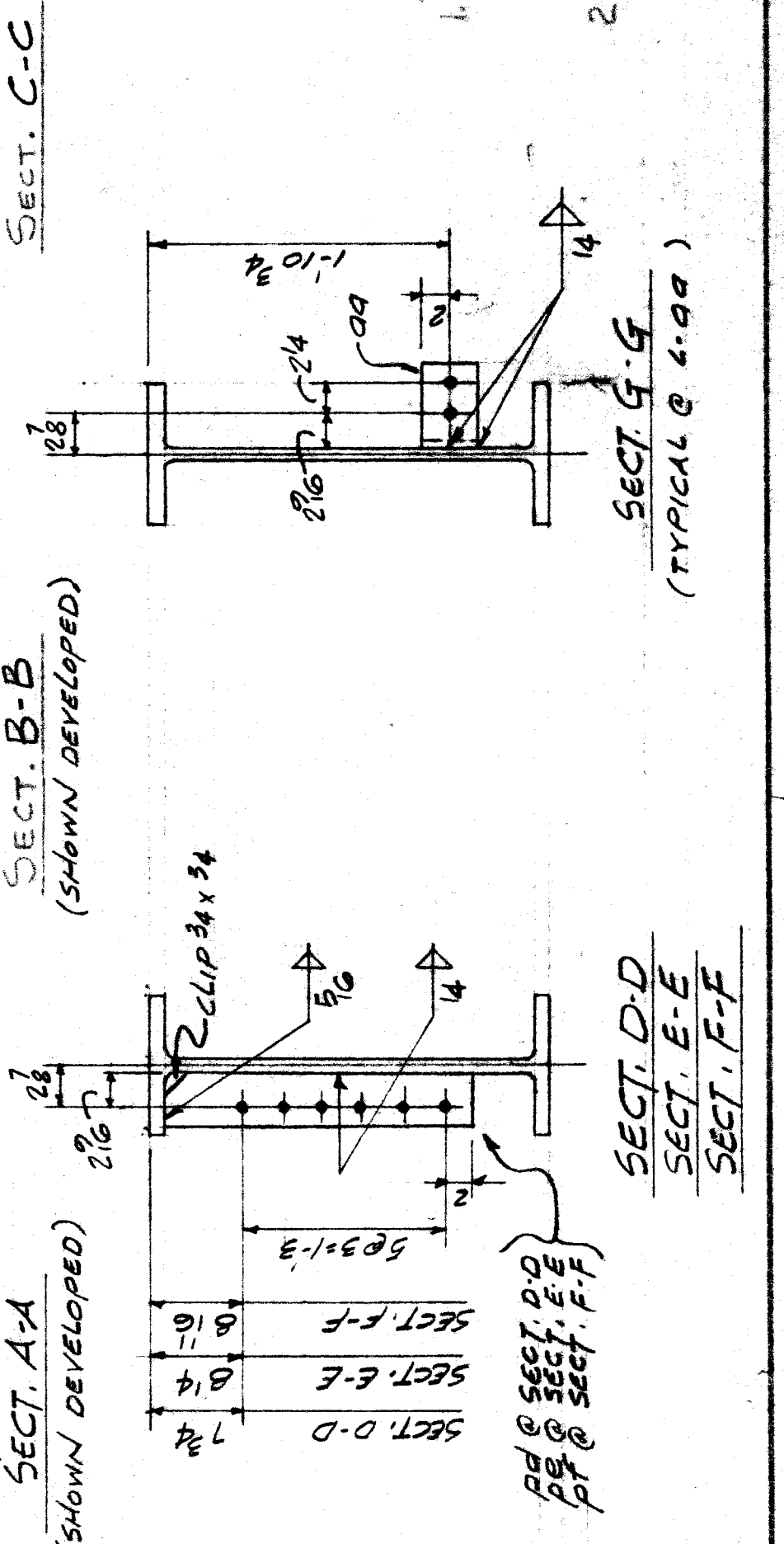
PN P2-(PB) - CUTTING DETAIL

LINE NO.	DESCRIPTION	SHAPE	LENGTH	MARK	REMARKS	DATE
1	5 STRINGER	W 30 x 132	74'-4 3/8	A 25		
2	1 W 30 x 132	W 30 x 132	74'-4 3/8	A 25	CVN	1/3
3	1 P 2 x 9	P 2 x 9	54'-0	P 2	CVN	1/18
4	4 P 2 x 9	P 2 x 9	2'-2	P 2	CVN	1/18
5	3 P 2 x 4	P 2 x 4	2'-1 1/2	P 2	CVN	1/18
6	1 P 2 x 4	P 2 x 4	1'-1 1/2	P 2	CVN	2/6
7	1 P 2 x 4	P 2 x 4	2'-0 1/2	P 2	CVN	2/6
8	1 P 2 x 4	P 2 x 4	2'-0 1/2	P 2	CVN	2/6
9	1 P 2 x 4	P 2 x 4	1'-8	P 2	CVN	2/17
10	1 P 2 x 4	P 2 x 4	1'-8	P 2	CVN	2/17
11	1 P 2 x 4	P 2 x 4	1'-8	P 2	CVN	2/17
12	1 P 2 x 4	P 2 x 4	1'-8	P 2	CVN	2/17
13	1 P 2 x 4	P 2 x 4	1'-8	P 2	CVN	2/17
14	1 P 2 x 4	P 2 x 4	1'-8	P 2	CVN	2/17
15	1 P 2 x 4	P 2 x 4	1'-8	P 2	CVN	2/17
16	1 P 2 x 4	P 2 x 4	1'-8	P 2	CVN	2/17
17	1 P 2 x 4	P 2 x 4	1'-8	P 2	CVN	2/17
18	1 P 2 x 4	P 2 x 4	1'-8	P 2	CVN	2/17
19	1 P 2 x 4	P 2 x 4	1'-8	P 2	CVN	2/17
20	1 P 2 x 4	P 2 x 4	1'-8	P 2	CVN	2/17
21	1 P 2 x 4	P 2 x 4	1'-8	P 2	CVN	2/17
22	1 P 2 x 4	P 2 x 4	1'-8	P 2	CVN	2/17
23	1 P 2 x 4	P 2 x 4	1'-8	P 2	CVN	2/17
24	1 P 2 x 4	P 2 x 4	1'-8	P 2	CVN	2/17
25	1 P 2 x 4	P 2 x 4	1'-8	P 2	CVN	2/17
26	1 P 2 x 4	P 2 x 4	1'-8	P 2	CVN	2/17
27	1 P 2 x 4	P 2 x 4	1'-8	P 2	CVN	2/17
28	1 P 2 x 4	P 2 x 4	1'-8	P 2	CVN	2/17
29	1 P 2 x 4	P 2 x 4	1'-8	P 2	CVN	2/17
30	1 P 2 x 4	P 2 x 4	1'-8	P 2	CVN	2/17
31	1 P 2 x 4	P 2 x 4	1'-8	P 2	CVN	2/17
32	1 P 2 x 4	P 2 x 4	1'-8	P 2	CVN	2/17
33	1 P 2 x 4	P 2 x 4	1'-8	P 2	CVN	2/17
34	1 P 2 x 4	P 2 x 4	1'-8	P 2	CVN	2/17
35	1 P 2 x 4	P 2 x 4	1'-8	P 2	CVN	2/17
36	1 P 2 x 4	P 2 x 4	1'-8	P 2	CVN	2/17
37	1 P 2 x 4	P 2 x 4	1'-8	P 2	CVN	2/17
38	1 P 2 x 4	P 2 x 4	1'-8	P 2	CVN	2/17
39	1 P 2 x 4	P 2 x 4	1'-8	P 2	CVN	2/17
40	1 P 2 x 4	P 2 x 4	1'-8	P 2	CVN	2/17
41	1 P 2 x 4	P 2 x 4	1'-8	P 2	CVN	2/17
42	1 P 2 x 4	P 2 x 4	1'-8	P 2	CVN	2/17
43	1 P 2 x 4	P 2 x 4	1'-8	P 2	CVN	2/17
44	1 P 2 x 4	P 2 x 4	1'-8	P 2	CVN	2/17
45	1 P 2 x 4	P 2 x 4	1'-8	P 2	CVN	2/17
46	1 P 2 x 4	P 2 x 4	1'-8	P 2	CVN	2/17
47	1 P 2 x 4	P 2 x 4	1'-8	P 2	CVN	2/17
48	1 P 2 x 4	P 2 x 4	1'-8	P 2	CVN	2/17
49	1 P 2 x 4	P 2 x 4	1'-8	P 2	CVN	2/17
50	1 P 2 x 4	P 2 x 4	1'-8	P 2	CVN	2/17
51	1 P 2 x 4	P 2 x 4	1'-8	P 2	CVN	2/17
52	1 P 2 x 4	P 2 x 4	1'-8	P 2	CVN	2/17
53	1 P 2 x 4	P 2 x 4	1'-8	P 2	CVN	2/17
54	1 P 2 x 4	P 2 x 4	1'-8	P 2	CVN	2/17
55	1 P 2 x 4	P 2 x 4	1'-8	P 2	CVN	2/17
56	1 P 2 x 4	P 2 x 4	1'-8	P 2	CVN	2/17
57	1 P 2 x 4	P 2 x 4	1'-8	P 2	CVN	2/17
58	1 P 2 x 4	P 2 x 4	1'-8	P 2	CVN	2/17
59	1 P 2 x 4	P 2 x 4	1'-8	P 2	CVN	2/17
60	1 P 2 x 4	P 2 x 4	1'-8	P 2	CVN	2/17
61	1 P 2 x 4	P 2 x 4	1'-8	P 2	CVN	2/17
62	1 P 2 x 4	P 2 x 4	1'-8	P 2	CVN	2/17
63	1 P 2 x 4	P 2 x 4	1'-8	P 2	CVN	2/17
64	1 P 2 x 4	P 2 x 4	1'-8	P 2	CVN	2/17
65	1 P 2 x 4	P 2 x 4	1'-8	P 2	CVN	2/17
66	1 P 2 x 4	P 2 x 4	1'-8	P 2	CVN	2/17
67	1 P 2 x 4	P 2 x 4	1'-8	P 2	CVN	2/17
68	1 P 2 x 4	P 2 x 4	1'-8	P 2	CVN	2/17
69	1 P 2 x 4	P 2 x 4	1'-8	P 2	CVN	2/17
70	1 P 2 x 4	P 2 x 4	1'-8	P 2	CVN	2/17
71	1 P 2 x 4	P 2 x 4	1'-8	P 2	CVN	2/17
72	1 P 2 x 4	P 2 x 4	1'-8	P 2	CVN	2/17
73	1 P 2 x 4	P 2 x 4	1'-8	P 2	CVN	2/17
74	1 P 2 x 4	P 2 x 4	1'-8	P 2	CVN	2/17
75	1 P 2 x 4	P 2 x 4	1'-8	P 2	CVN	2/17
76	1 P 2 x 4	P 2 x 4	1'-8	P 2	CVN	2/17
77	1 P 2 x 4	P 2 x 4	1'-8	P 2	CVN	2/17
78	1 P 2 x 4	P 2 x 4	1'-8	P 2	CVN	2/17
79	1 P 2 x 4	P 2 x 4	1'-8	P 2	CVN	2/17
80	1 P 2 x 4	P 2 x 4	1'-8	P 2	CVN	2/17
81	1 P 2 x 4	P 2 x 4	1'-8	P 2	CVN	2/17
82	1 P 2 x 4	P 2 x 4	1'-8	P 2	CVN	2/17
83	1 P 2 x 4	P 2 x 4	1'-8	P 2	CVN	2/17
84	1 P 2 x 4	P 2 x 4	1'-8	P 2	CVN	2/17
85	1 P 2 x 4	P 2 x 4	1'-8	P 2	CVN	2/17
86	1 P 2 x 4	P 2 x 4	1'-8	P 2	CVN	2/17
87	1 P 2 x 4	P 2 x 4	1'-8	P 2	CVN	2/17
88	1 P 2 x 4	P 2 x 4	1'-8	P 2	CVN	2/17
89	1 P 2 x 4	P 2 x 4	1'-8	P 2	CVN	2/17
90	1 P 2 x 4	P 2 x 4	1'-8	P 2	CVN	2/17
91	1 P 2 x 4	P 2 x 4	1'-8	P 2	CVN	2/17
92	1 P 2 x 4	P 2 x 4	1'-8	P 2	CVN	2/17
93	1 P 2 x 4	P 2 x 4	1'-8	P 2	CVN	2/17
94	1 P 2 x 4	P 2 x 4	1'-8	P 2	CVN	2/17
95	1 P 2 x 4	P 2 x 4	1'-8	P 2	CVN	2/17
96	1 P 2 x 4	P 2 x 4	1'-8	P 2	CVN	2/17
97	1 P 2 x 4	P 2 x 4	1'-8	P 2	CVN	2/17
98	1 P 2 x 4	P 2 x 4	1'-8	P 2	CVN	2/17
99	1 P 2 x 4	P 2 x 4	1'-8	P 2	CVN	2/17
100	1 P 2 x 4	P 2 x 4	1'-8	P 2	CVN	2/17

CITY OF DETROIT
CITY ENGINEERING DEPARTMENT
APPROVED
FOR COMPLIANCE WITH CONTRACT NO. 6558 AS NOTED
THIS APPROVAL SHALL NOT RELIEVE THE CONTRACTOR OF ANY RESPONSIBILITY COVERED BY THE CONTRACT
DATE: MAR 2 1977 BY: [Signature]

PHILIP ZWEIG & SONS
2105 8TH AVE
BUILDING 300, 1ST FLOOR, CHRYSLER BLDG., DETROIT, MICH.
OWNER: CITY OF DETROIT, MICH.
LOCATION: WATER TOWER CONSTRUCTION COMPANY
ARCHITECT: WATER TOWER CONSTRUCTION COMPANY
CONTRACTOR: WATER TOWER CONSTRUCTION COMPANY
TITLE: STRINGER, SPAN 2
DRAWN: [Signature] DATE: 2-1-77
CHECKED: [Signature] DATE: 2-1-77
REVISED: [Signature] DATE: 2-1-77
PART: NONE
CONTRACT: 335 SHEET 25 OF 53

SHOP NOTES
1. SEE SHEET E4 FOR GENERAL NOTES.
2. MAT'L: A588 U.N.



PHI HOLES FOR 1/2" PLUG WELD

BEAM CAMBER & CUTTING DETAIL

74-4-2 (W30 x 132 x 74-4-2) (SEE CAMBER DIAGRAM)

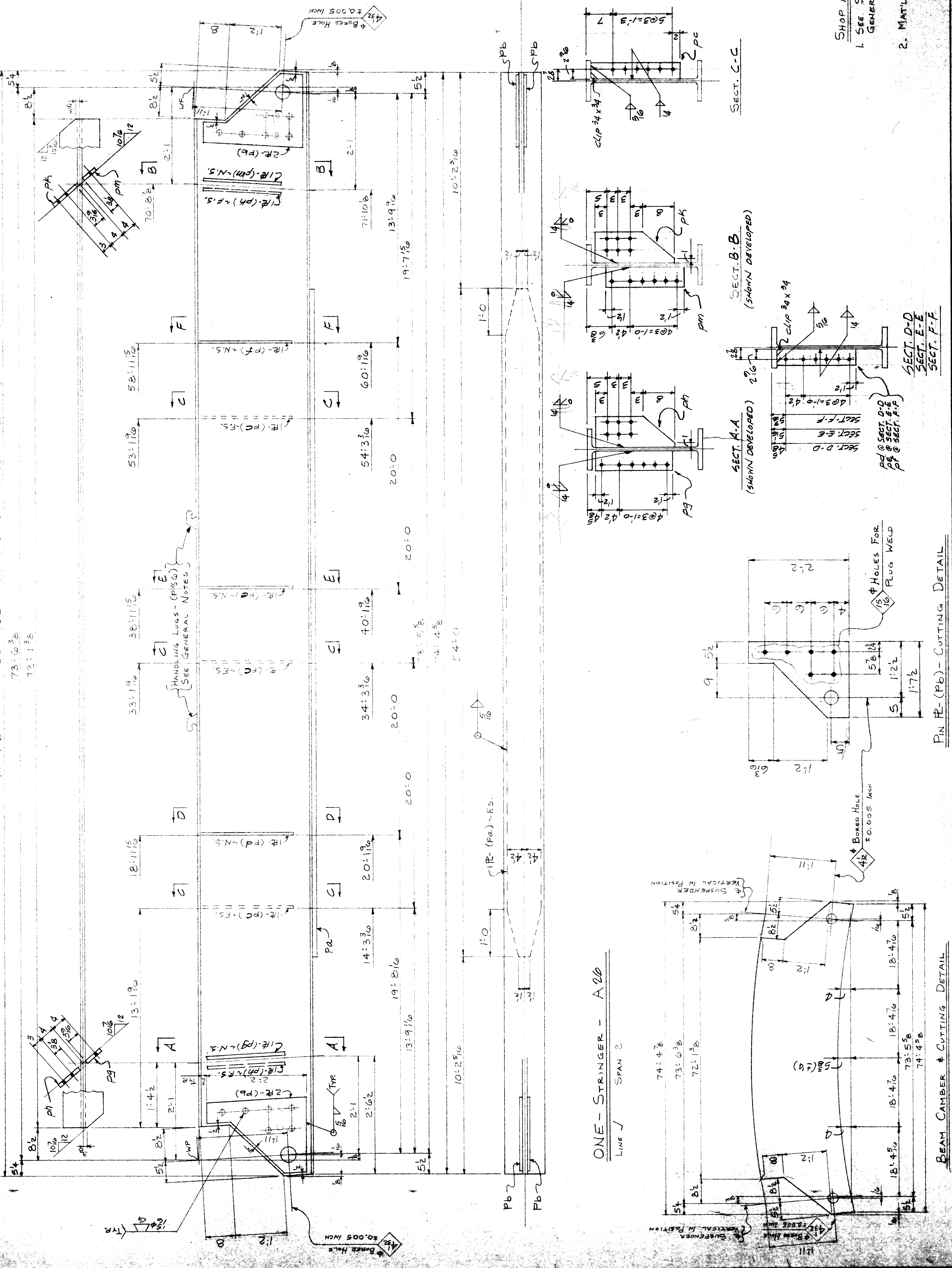
LINE NO.	QUANTITY	UNIT	SHAPE	MARK	REMARKS	ORDERED
1	1	STRINGER	W30x132	A20	CVM	1/3
2	1	W30x132	74-4-2		CVM	1/3
3	4	R	2 1/2	P2	CVM	1/30
4	4	R	2 1/2	P6	CVM	2/6
5	3	R	2 1/2	PC		3/12
6	1	R	2 1/2	PD		3/12
7	1	R	2 1/2	PE		3/12
8	1	R	2 1/2	PF		3/12
9	1	R	2 1/2	PG		3/12
10	1	R	2 1/2	PH		3/12
11	1	R	2 1/2	PI		3/12
12	1	R	2 1/2	PJ		3/12
13	2	R	2 1/2	PK		3/12
14	2	R	2 1/2	PL		3/12

CITY OF DETROIT
ENGINEERING DEPARTMENT
APPROVED AS NOTED
 FOR CO. PLEASE WITH CONTRACT NO. M6557
 THIS PLAN SHALL BE AT ALL TIMES THE CONTRACTOR'S RESPONSIBILITY COVERED BY THE CONTRACT
 DATE: MAR 2 1977 BY:

PHILIP ZWIG & SONS
 BUILDING EXHIBIT AVE. BOSTON CROSSING THE P.C.R.
 OWNER: CITY OF DETROIT, MICH.
 LOCATION: DETROIT, MICH.
 CONTRACTOR: TEGAL CONSTRUCTION COMPANY
 ARCHITECT: CITY ENGINEERING DEPT., CITY OF DETROIT, MICH.
 TITLE: STRINGER, SPAN 2
 RIVETS: 3/8" x 1 1/2" U.N.
 PAINT: NONE
 DRAWN: JBY DATE: 2-1-77
 CHECK: GJC
 REV:

CONTRACT 335 SHEET 26 of 53
 DRAWN: PHILIP ZWIG & SONS

SHOP NOTES
 1. SEE SHEET E4 FOR GENERAL NOTES.
 2. MAT'L: A588 U.N.



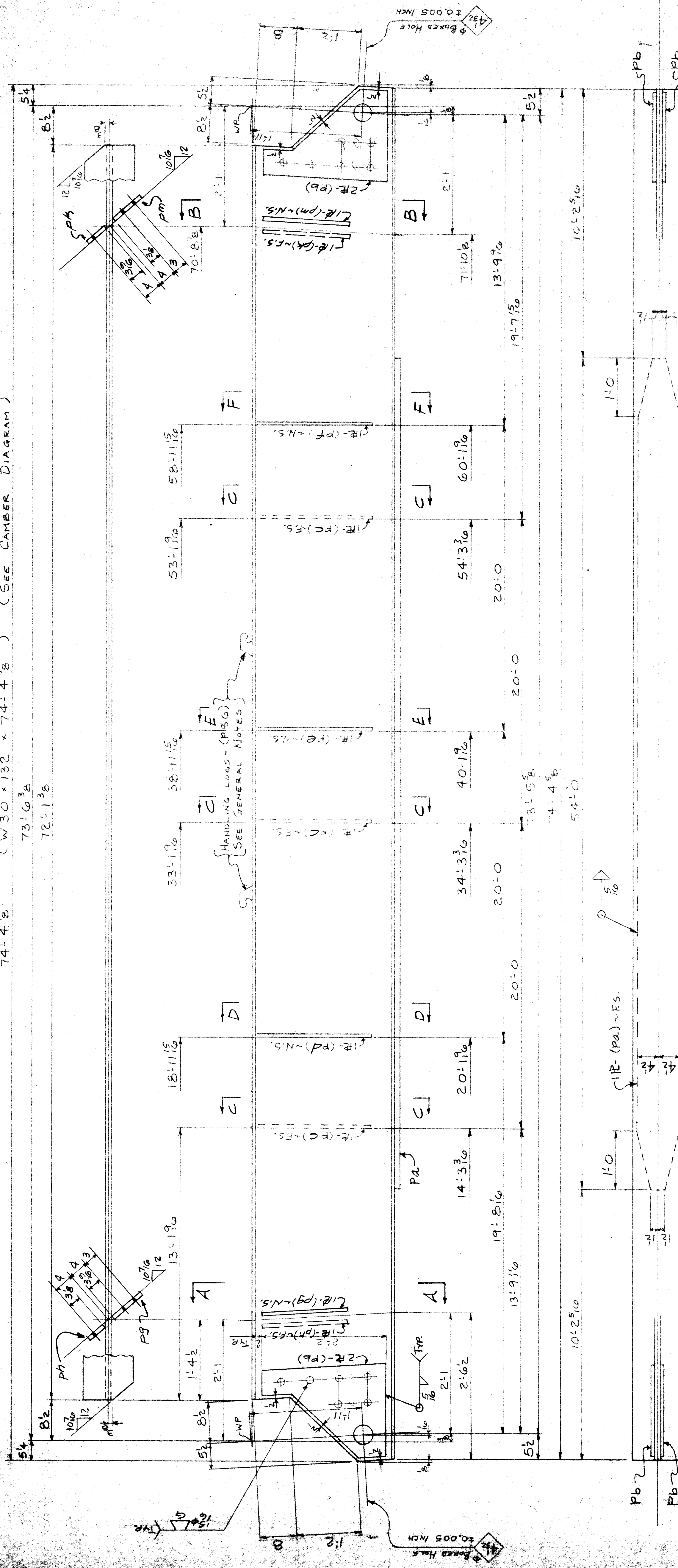
ONE-STRINGER - A20
LINE J SPAN 2

PIN PLATE (PB) - CUTTING DETAIL

BEAM CAMBER & CUTTING DETAIL

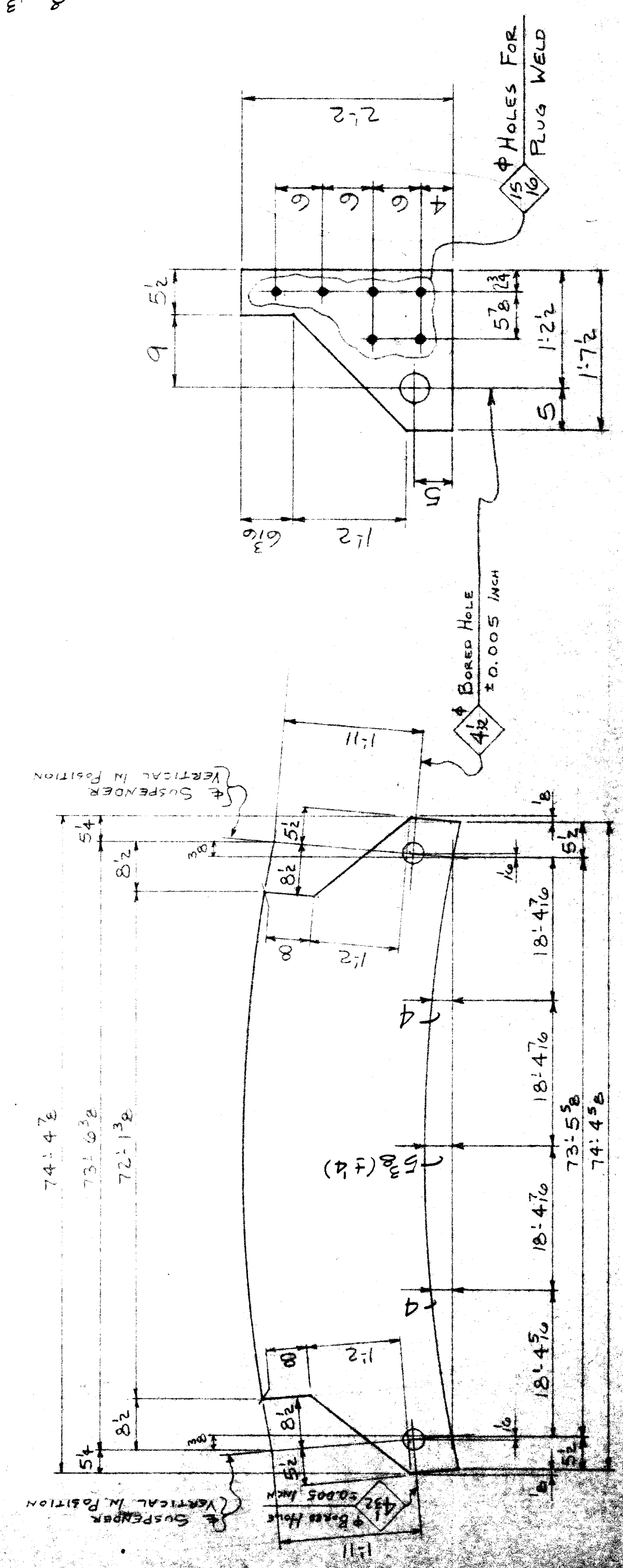
74'-4" (W30 x 132 x 74'-4") (SEE CAMBER DIAGRAM)

73'-6" 3/8
72'-1" 3/8

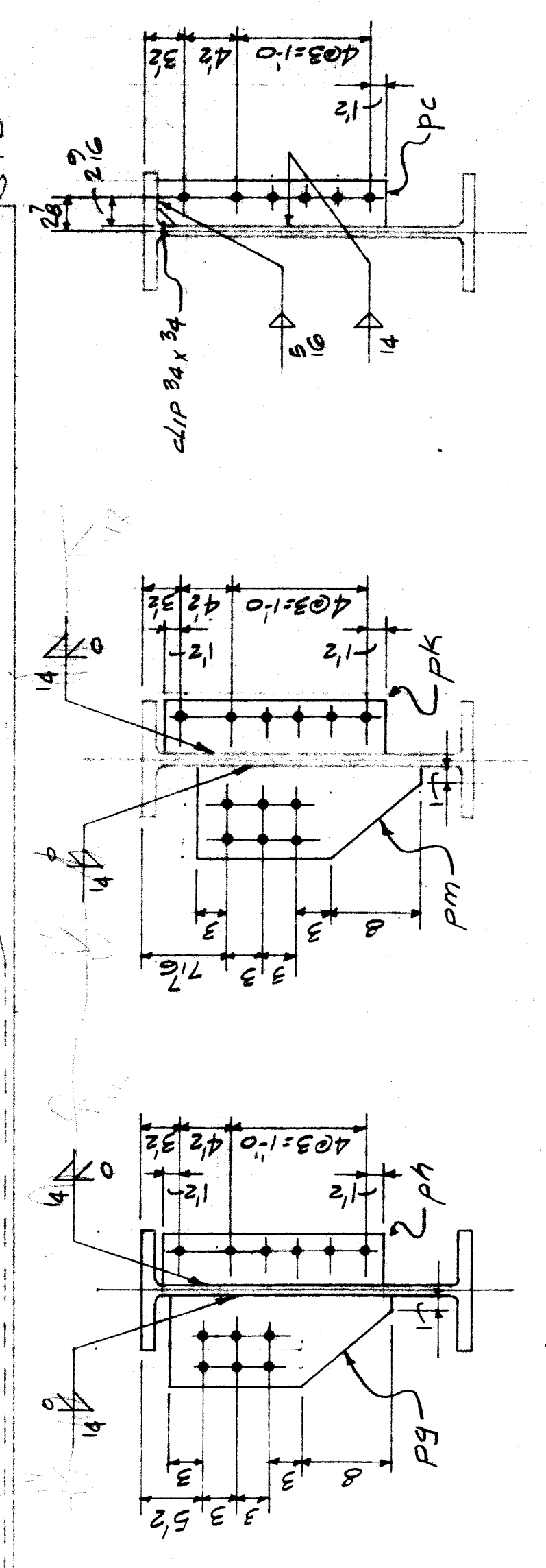


ONE-STRINGER - A27
LINE K SPAN 2

74'-4"
73'-6" 3/8
72'-1" 3/8



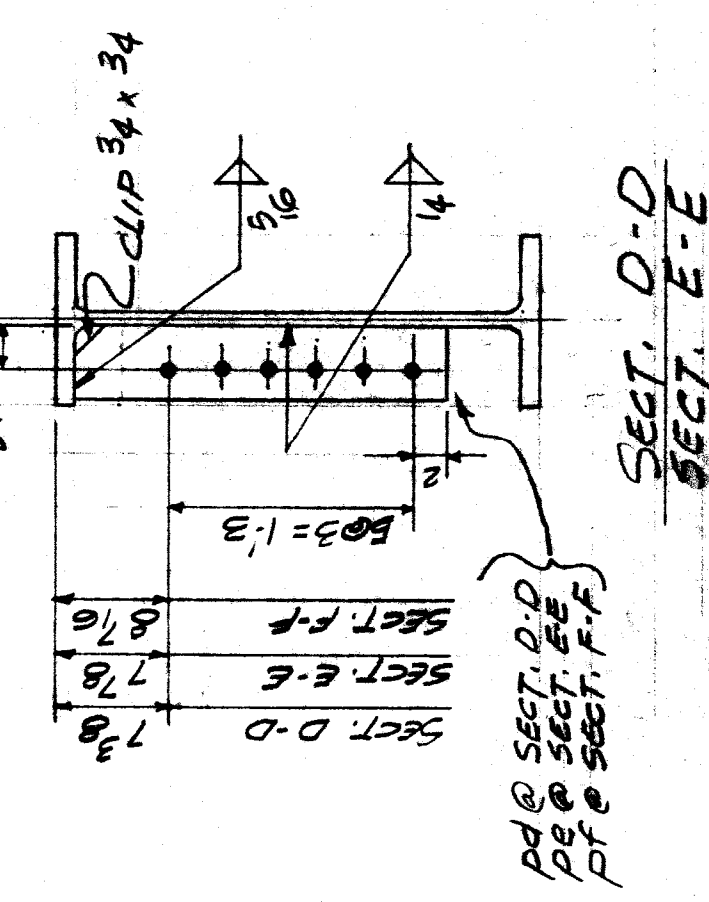
BEAM CAMBER & CUTTING DETAIL



SECT. C-C

SECT. B-B
(SHOWN DEVELOPED)

SECT. A-A
(SHOWN DEVELOPED)



SECT. D-D
SECT. E-E
SECT. F-F

PIER (PB) - CUTTING DETAIL

LINE	NO. OF PILES	SHAPE	LENGTH	MARK	REMARKS	DRAWN	DATE
1	1	STRINGER	74'-4"	A27			
2	1	W 30 x 132	74'-4"		CWN		1/3
3	1	PL 1/2 x 9	54'-0"		CWN		1/8
4	4	PL 1/2 x 4	2'-0"		CWN		1/8
5	3	PL 1/2 x 4	1'-8"				2/6
6	1	PL 1/2 x 4	1'-8"				2/6
7	1	PL 1/2 x 4	2'-0"				2/6
8	1	PL 1/2 x 4	2'-0"				2/6
9	1	PL 1/2 x 4	1'-8"				2/6
10	1	PL 1/2 x 4	1'-8"				2/6
11	1	PL 1/2 x 4	1'-8"				2/6
12	1	PL 1/2 x 4	1'-8"				2/6
13	2	PL 1/2 x 4	0'-6"				2/6

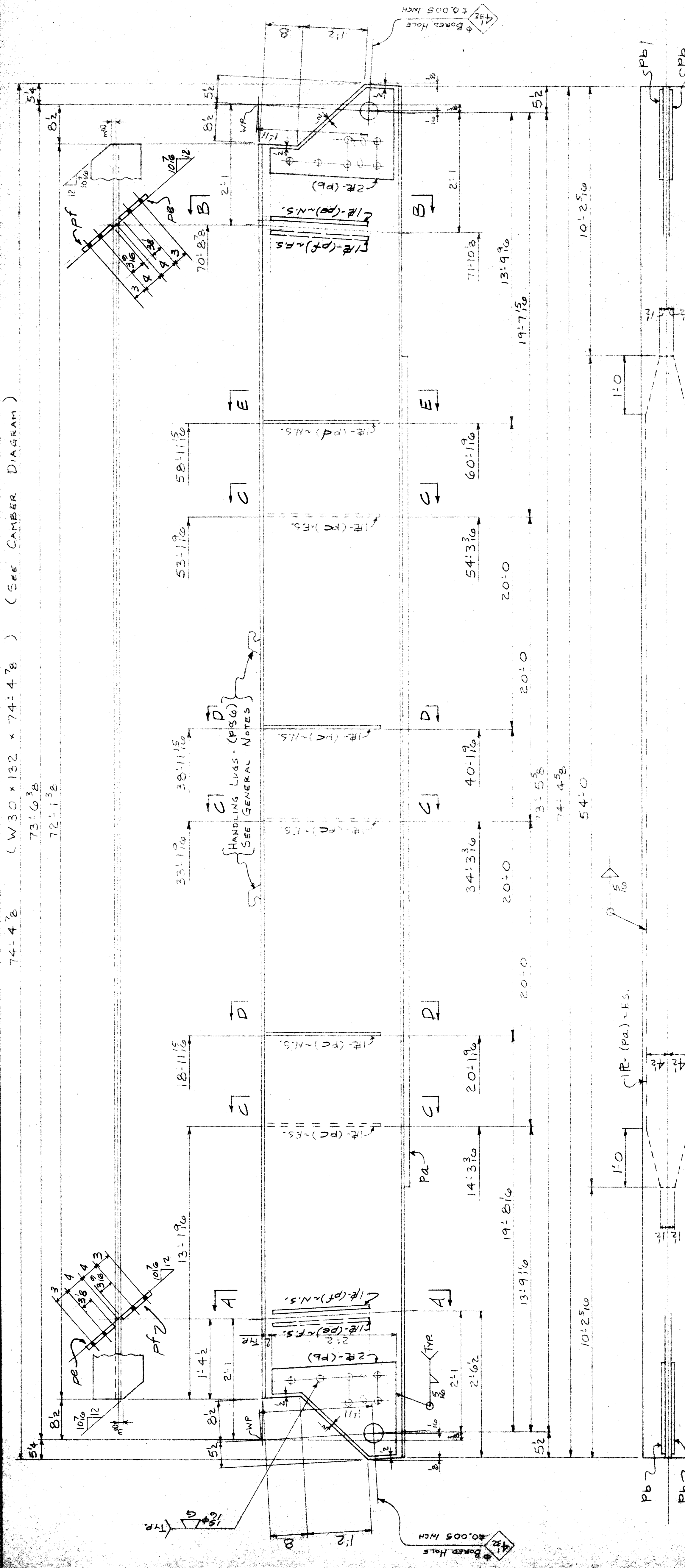
CITY OF DETROIT
ENGINEERING DEPARTMENT
APPROVED AS NOTED

FOR CO. PLUMBER WITH CONTRACT NO. P.M. 1557
THIS APPROVAL SHALL NOT RELIEVE THE CONTRACTOR
OF ANY RESPONSIBILITY COVERED BY THE CONTRACT
DATE: MAR 2 1977 BY:

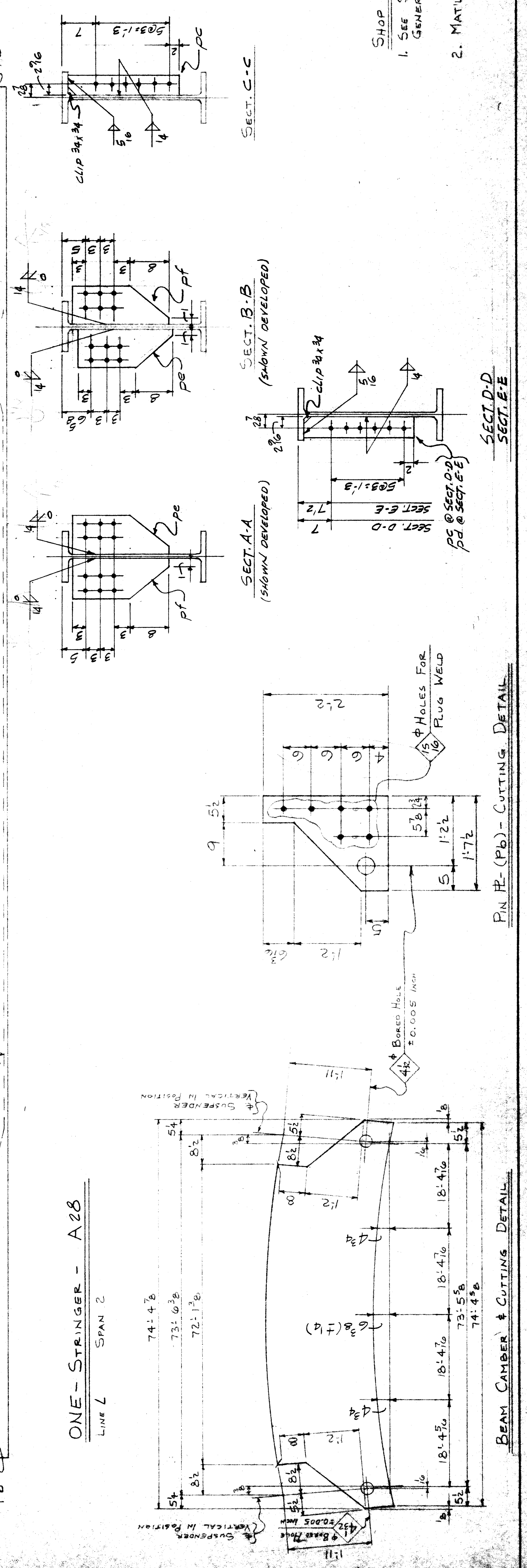
PHILIP ZWEIF & SONS
BUILDING BRANCH
BUILDING BRANCH, AVE. BILGORE CROSSING, THE P.C.R.R.
CITY OF DETROIT, MICH.
CONTRACTOR: WEAVER TOEBS CONSTRUCTION COMPANY
ARCHITECT: CITY ENGINEERING DEPT., CITY OF DETROIT, MICH.
TITLE: STRINGER, SPAN 2
SHEETS: 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100
DRAWN: P.Z. DATE: 2/1/77
CHECK: P.Z.
PAINT: P.Z.
REV: P.Z.
CONTRACT 335
SHEET 27 OF 53

- SHOP NOTES
- SEE SHEET E4 FOR GENERAL NOTES.
 - MAT'L: A588 U.N.

74'-4 7/8 (W30 x 132 x 74'-4 7/8) (SEE CAMBER DIAGRAM)



ONE-STRINGER - A28
LINE 1 SPAN 2



SHOP NOTES
1. SEE SHEET E4 FOR GENERAL NOTES.
2. MAT'L: A588 U.N.

APPROVED AS NOTED

CITY OF DETROIT
CITY ENGINEERING DEPARTMENT

FOR COMPLIANCE WITH CONTRACT No. PM 6552
THIS APPROVAL SHALL NOT RELIEVE THE CONTRACTOR OF ANY RESPONSIBILITY COVERED BY THE CONTRACT
DATE: MAR 2 1977 BY: _____

PHILIP ZWEIF & SONS
2100 ERIANE
BUILDING BRADLEY AVE. BRIDGE CROSSING THE P.C.R.R.
OWNER: CITY OF DETROIT, MICH.
LOCATION: DETROIT, MICH.
CONTRACTOR: WALTER TOBER CONSTRUCTION COMPANY,
ARCHITECT: CITY ENGINEERING DEPT., CITY OF DETROIT, MICH.
TITLE: STRINGER - SPAN 2

REVISED: 1/17/77 BY: JAY
REVISED: 2/1/77 BY: JAY
REVISED: 2/1/77 BY: JAY

CONTRACT 335
SHEET 25 OF 53

LINE NO.	QUANTITY	SHAPE	REMARKS	ORDER NO.
1	1	STRINGER	C.V.N.	1/3
2	1	W 30 x 132	C.V.N.	1/30
3	4	PL 1/2 x 4	C.V.N.	2/16
4	1	PL 1/2 x 4		2/17
5	2	PL 1/2 x 4		2/17
6	2	PL 1/2 x 4		2/17
7	2	PL 1/2 x 4		2/17
8	2	PL 1/2 x 4		2/17
9	2	PL 1/2 x 4		2/17
10	2	PL 1/2 x 4		2/17
11	2	PL 1/2 x 4		2/17
12	2	PL 1/2 x 4		2/17
13	2	PL 1/2 x 4		2/17
14	2	PL 1/2 x 4		2/17
15	2	PL 1/2 x 4		2/17
16	2	PL 1/2 x 4		2/17
17	2	PL 1/2 x 4		2/17
18	2	PL 1/2 x 4		2/17
19	2	PL 1/2 x 4		2/17
20	2	PL 1/2 x 4		2/17
21	2	PL 1/2 x 4		2/17
22	2	PL 1/2 x 4		2/17
23	2	PL 1/2 x 4		2/17
24	2	PL 1/2 x 4		2/17
25	2	PL 1/2 x 4		2/17
26	2	PL 1/2 x 4		2/17
27	2	PL 1/2 x 4		2/17
28	2	PL 1/2 x 4		2/17
29	2	PL 1/2 x 4		2/17
30	2	PL 1/2 x 4		2/17
31	2	PL 1/2 x 4		2/17
32	2	PL 1/2 x 4		2/17
33	2	PL 1/2 x 4		2/17
34	2	PL 1/2 x 4		2/17
35	2	PL 1/2 x 4		2/17
36	2	PL 1/2 x 4		2/17
37	2	PL 1/2 x 4		2/17
38	2	PL 1/2 x 4		2/17
39	2	PL 1/2 x 4		2/17
40	2	PL 1/2 x 4		2/17
41	2	PL 1/2 x 4		2/17
42	2	PL 1/2 x 4		2/17
43	2	PL 1/2 x 4		2/17
44	2	PL 1/2 x 4		2/17
45	2	PL 1/2 x 4		2/17
46	2	PL 1/2 x 4		2/17
47	2	PL 1/2 x 4		2/17
48	2	PL 1/2 x 4		2/17
49	2	PL 1/2 x 4		2/17
50	2	PL 1/2 x 4		2/17
51	2	PL 1/2 x 4		2/17
52	2	PL 1/2 x 4		2/17
53	2	PL 1/2 x 4		2/17
54	2	PL 1/2 x 4		2/17
55	2	PL 1/2 x 4		2/17
56	2	PL 1/2 x 4		2/17
57	2	PL 1/2 x 4		2/17
58	2	PL 1/2 x 4		2/17
59	2	PL 1/2 x 4		2/17
60	2	PL 1/2 x 4		2/17
61	2	PL 1/2 x 4		2/17
62	2	PL 1/2 x 4		2/17
63	2	PL 1/2 x 4		2/17
64	2	PL 1/2 x 4		2/17
65	2	PL 1/2 x 4		2/17
66	2	PL 1/2 x 4		2/17
67	2	PL 1/2 x 4		2/17

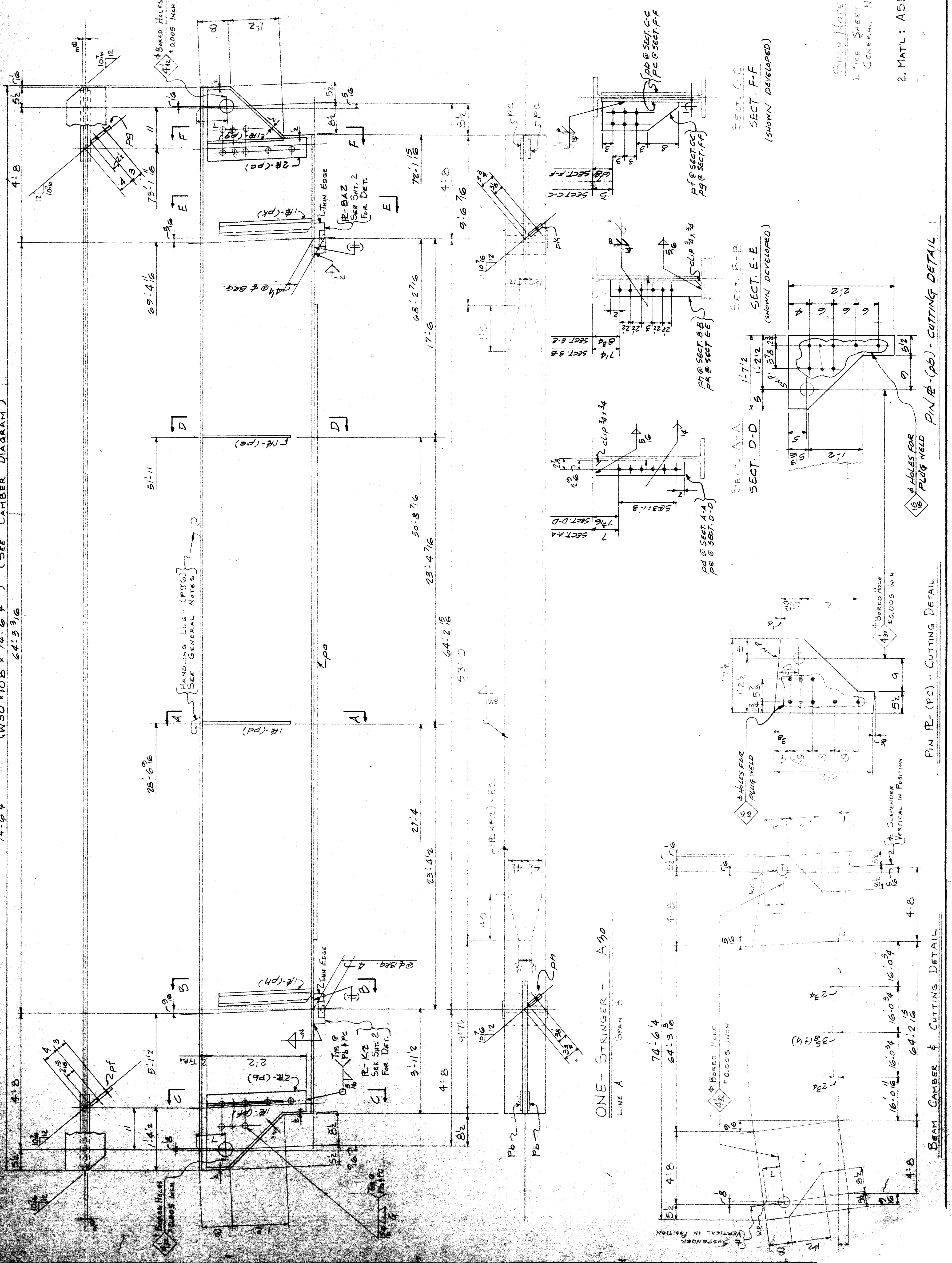
74'-6 1/4 (W30 x 108 x 74'-6 1/4) (SEE CAMBER DIAGRAM)
64'-3 3/16

LINE	NO.	DESCRIPTION	QUANTITY	UNIT	REMARKS
1	1	STRINGER	74'-6 1/4	LN	
2	1	WEAR	53'-0	LN	
3	1	RE	21'-6	LN	
4	2	RE	21'-6	LN	
5	2	RE	21'-6	LN	
6	1	RE	11'-0	LN	
7	1	RE	11'-0	LN	
8	1	RE	11'-0	LN	
9	1	RE	11'-0	LN	
10	1	RE	11'-0	LN	
11	1	RE	11'-0	LN	
12	1	RE	11'-0	LN	
13	1	RE	11'-0	LN	
14	1	RE	11'-0	LN	
15	1	RE	11'-0	LN	
16	1	RE	11'-0	LN	
17	1	RE	11'-0	LN	
18	1	RE	11'-0	LN	
19	1	RE	11'-0	LN	
20	1	RE	11'-0	LN	
21	1	RE	11'-0	LN	
22	1	RE	11'-0	LN	
23	1	RE	11'-0	LN	
24	1	RE	11'-0	LN	
25	1	RE	11'-0	LN	
26	1	RE	11'-0	LN	
27	1	RE	11'-0	LN	
28	1	RE	11'-0	LN	
29	1	RE	11'-0	LN	
30	1	RE	11'-0	LN	
31	1	RE	11'-0	LN	
32	1	RE	11'-0	LN	
33	1	RE	11'-0	LN	
34	1	RE	11'-0	LN	
35	1	RE	11'-0	LN	
36	1	RE	11'-0	LN	
37	1	RE	11'-0	LN	
38	1	RE	11'-0	LN	
39	1	RE	11'-0	LN	
40	1	RE	11'-0	LN	
41	1	RE	11'-0	LN	
42	1	RE	11'-0	LN	
43	1	RE	11'-0	LN	
44	1	RE	11'-0	LN	
45	1	RE	11'-0	LN	
46	1	RE	11'-0	LN	
47	1	RE	11'-0	LN	
48	1	RE	11'-0	LN	
49	1	RE	11'-0	LN	
50	1	RE	11'-0	LN	
51	1	RE	11'-0	LN	
52	1	RE	11'-0	LN	
53	1	RE	11'-0	LN	
54	1	RE	11'-0	LN	
55	1	RE	11'-0	LN	
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57	1	RE	11'-0	LN	
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61	1	RE	11'-0	LN	
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63	1	RE	11'-0	LN	
64	1	RE	11'-0	LN	
65	1	RE	11'-0	LN	
66	1	RE	11'-0	LN	
67	1	RE	11'-0	LN	
68	1	RE	11'-0	LN	
69	1	RE	11'-0	LN	
70	1	RE	11'-0	LN	
71	1	RE	11'-0	LN	
72	1	RE	11'-0	LN	
73	1	RE	11'-0	LN	
74	1	RE	11'-0	LN	
75	1	RE	11'-0	LN	
76	1	RE	11'-0	LN	
77	1	RE	11'-0	LN	
78	1	RE	11'-0	LN	
79	1	RE	11'-0	LN	
80	1	RE	11'-0	LN	
81	1	RE	11'-0	LN	
82	1	RE	11'-0	LN	
83	1	RE	11'-0	LN	
84	1	RE	11'-0	LN	
85	1	RE	11'-0	LN	
86	1	RE	11'-0	LN	
87	1	RE	11'-0	LN	
88	1	RE	11'-0	LN	
89	1	RE	11'-0	LN	
90	1	RE	11'-0	LN	
91	1	RE	11'-0	LN	
92	1	RE	11'-0	LN	
93	1	RE	11'-0	LN	
94	1	RE	11'-0	LN	
95	1	RE	11'-0	LN	
96	1	RE	11'-0	LN	
97	1	RE	11'-0	LN	
98	1	RE	11'-0	LN	
99	1	RE	11'-0	LN	
100	1	RE	11'-0	LN	

CITY OF DETROIT
CITY ENGINEERING DEPARTMENT
APPROVED
FOR JO PLUMB WITH CONTRACT No. P.M. 6533
DATE: MAR 2 1917

PHILIP ZWIG & SONS
2006 STRAIVE GARY IND.
BUILDING BASILEY AVE. P.O. BOX 1000, DETROIT, MICH.
OWNER: CITY OF DETROIT, MICH.
LOCATION: DETROIT, MICH.
CONTRACTOR: WALTER T. BERRY, CONSTRUCTION COMPANY
ARCHITECT: J.C. ENGINEERS, DEPT. CITY OF DETROIT, MICH.
TITLE: STAIRS, SPAN 3

RIVETS NONE
CHD. C&G
DRAWN: J.W. DATE: 2-1-17
REV: NONE
PAINT: NONE
CONTRACT 335 SHEET 30 OF 53



SHOP NOTES
1. SEE SHEET E-4 FOR GENERAL NOTES.
2. MATL: A588 U.N.

PIN PL- (PC) - CUTTING DETAIL
PIN PL- (PB) - CUTTING DETAIL

ONE - STRINGER - A 30
LINE A SPAN 3

BEAM CAMBER & CUTTING DETAIL

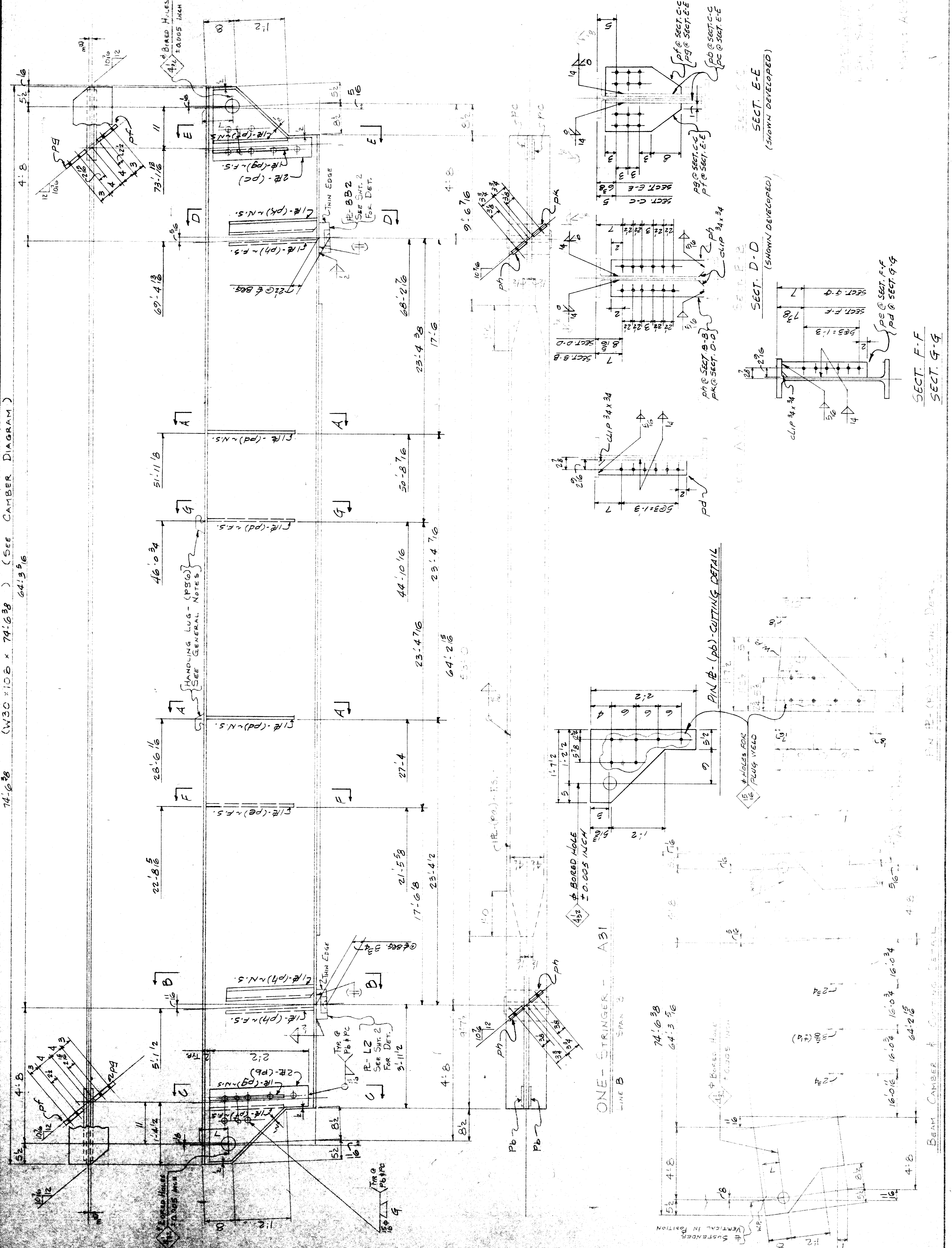
74-628 (W30x108 x 74-628) (SEE CAMBER DIAGRAM)
64-356

NO.	DESCRIPTION	QTY	REMARKS	ORDERED
1	STRINGER	74	W30x108	A31
2	PLATE	53	1/2 x 10	P4
3	PLATE	22	1/2 x 10	P6
4	PLATE	22	1/2 x 10	PC
5	PLATE	22	1/2 x 10	PC
6	PLATE	1	1/2 x 10	PC
7	PLATE	1	1/2 x 10	PC
8	PLATE	1	1/2 x 10	PC
9	PLATE	1	1/2 x 10	PC
10	PLATE	1	1/2 x 10	PC
11	PLATE	1	1/2 x 10	PC
12	PLATE	1	1/2 x 10	PC
13	PLATE	1	1/2 x 10	PC
14	PLATE	1	1/2 x 10	PC
15	PLATE	1	1/2 x 10	PC
16	PLATE	1	1/2 x 10	PC
17	PLATE	1	1/2 x 10	PC
18	PLATE	1	1/2 x 10	PC
19	PLATE	1	1/2 x 10	PC
20	PLATE	1	1/2 x 10	PC
21	PLATE	1	1/2 x 10	PC
22	PLATE	1	1/2 x 10	PC
23	PLATE	1	1/2 x 10	PC
24	PLATE	1	1/2 x 10	PC
25	PLATE	1	1/2 x 10	PC
26	PLATE	1	1/2 x 10	PC
27	PLATE	1	1/2 x 10	PC
28	PLATE	1	1/2 x 10	PC
29	PLATE	1	1/2 x 10	PC
30	PLATE	1	1/2 x 10	PC
31	PLATE	1	1/2 x 10	PC
32	PLATE	1	1/2 x 10	PC
33	PLATE	1	1/2 x 10	PC
34	PLATE	1	1/2 x 10	PC
35	PLATE	1	1/2 x 10	PC
36	PLATE	1	1/2 x 10	PC
37	PLATE	1	1/2 x 10	PC
38	PLATE	1	1/2 x 10	PC
39	PLATE	1	1/2 x 10	PC
40	PLATE	1	1/2 x 10	PC
41	PLATE	1	1/2 x 10	PC
42	PLATE	1	1/2 x 10	PC
43	PLATE	1	1/2 x 10	PC
44	PLATE	1	1/2 x 10	PC
45	PLATE	1	1/2 x 10	PC
46	PLATE	1	1/2 x 10	PC
47	PLATE	1	1/2 x 10	PC
48	PLATE	1	1/2 x 10	PC
49	PLATE	1	1/2 x 10	PC
50	PLATE	1	1/2 x 10	PC
51	PLATE	1	1/2 x 10	PC
52	PLATE	1	1/2 x 10	PC
53	PLATE	1	1/2 x 10	PC
54	PLATE	1	1/2 x 10	PC
55	PLATE	1	1/2 x 10	PC
56	PLATE	1	1/2 x 10	PC
57	PLATE	1	1/2 x 10	PC
58	PLATE	1	1/2 x 10	PC
59	PLATE	1	1/2 x 10	PC
60	PLATE	1	1/2 x 10	PC
61	PLATE	1	1/2 x 10	PC
62	PLATE	1	1/2 x 10	PC
63	PLATE	1	1/2 x 10	PC
64	PLATE	1	1/2 x 10	PC
65	PLATE	1	1/2 x 10	PC
66	PLATE	1	1/2 x 10	PC
67	PLATE	1	1/2 x 10	PC
68	PLATE	1	1/2 x 10	PC
69	PLATE	1	1/2 x 10	PC
70	PLATE	1	1/2 x 10	PC
71	PLATE	1	1/2 x 10	PC
72	PLATE	1	1/2 x 10	PC
73	PLATE	1	1/2 x 10	PC
74	PLATE	1	1/2 x 10	PC

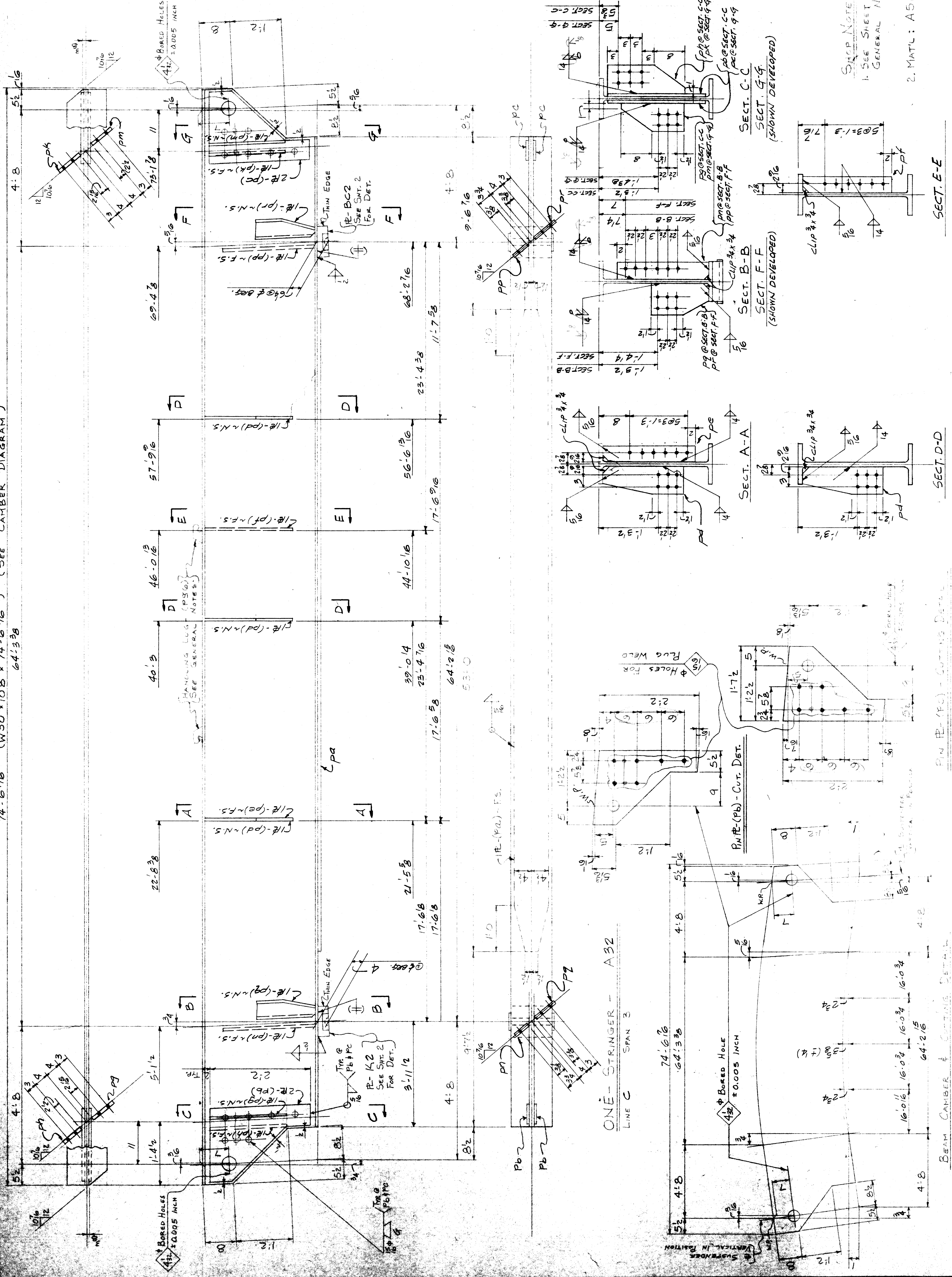
CITY OF DETROIT
CITY ENGINEERING DEPARTMENT
APPROVED
FOR USE WITH CONTRACT NO. 11-11-177
DATE 11-11-177
BY: [Signature]

PHILIP ZWEIG & SONS
3100 W. WOODWARD AVE.
ANN ARBOR, MICH. 48106
TELEPHONE: 764-1111

SHEET 31 OF 53



74'-6 7/16 (W30 x 108 x 74'-6 7/16) (SEE CAMBER DIAGRAM)
64'-3 3/8



LINE	QTY	DESCRIPTION	SHAPE	SIZE	REMARKS
1	1	STRINGER	W30x108	74'6 7/16	A32
2	1	PL	1/4	53'0	CVN
3	2	PL	1/4	17'9	CVN
4	2	PL	1/4	22'0	CVN
5	2	PL	1/4	22'0	CVN
6	2	PL	1/4	22'0	CVN
7	2	PL	1/4	22'0	CVN
8	2	PL	1/4	22'0	CVN
9	2	PL	1/4	22'0	CVN
10	2	PL	1/4	22'0	CVN
11	2	PL	1/4	22'0	CVN
12	2	PL	1/4	22'0	CVN
13	2	PL	1/4	22'0	CVN
14	2	PL	1/4	22'0	CVN
15	2	PL	1/4	22'0	CVN
16	2	PL	1/4	22'0	CVN
17	2	PL	1/4	22'0	CVN
18	2	PL	1/4	22'0	CVN
19	2	PL	1/4	22'0	CVN
20	2	PL	1/4	22'0	CVN
21	2	PL	1/4	22'0	CVN
22	2	PL	1/4	22'0	CVN
23	2	PL	1/4	22'0	CVN
24	2	PL	1/4	22'0	CVN
25	2	PL	1/4	22'0	CVN
26	2	PL	1/4	22'0	CVN
27	2	PL	1/4	22'0	CVN
28	2	PL	1/4	22'0	CVN
29	2	PL	1/4	22'0	CVN
30	2	PL	1/4	22'0	CVN
31	2	PL	1/4	22'0	CVN
32	2	PL	1/4	22'0	CVN
33	2	PL	1/4	22'0	CVN
34	2	PL	1/4	22'0	CVN
35	2	PL	1/4	22'0	CVN
36	2	PL	1/4	22'0	CVN
37	2	PL	1/4	22'0	CVN
38	2	PL	1/4	22'0	CVN
39	2	PL	1/4	22'0	CVN
40	2	PL	1/4	22'0	CVN
41	2	PL	1/4	22'0	CVN
42	2	PL	1/4	22'0	CVN
43	2	PL	1/4	22'0	CVN
44	2	PL	1/4	22'0	CVN
45	2	PL	1/4	22'0	CVN
46	2	PL	1/4	22'0	CVN
47	2	PL	1/4	22'0	CVN
48	2	PL	1/4	22'0	CVN
49	2	PL	1/4	22'0	CVN
50	2	PL	1/4	22'0	CVN
51	2	PL	1/4	22'0	CVN
52	2	PL	1/4	22'0	CVN
53	2	PL	1/4	22'0	CVN
54	2	PL	1/4	22'0	CVN
55	2	PL	1/4	22'0	CVN
56	2	PL	1/4	22'0	CVN
57	2	PL	1/4	22'0	CVN
58	2	PL	1/4	22'0	CVN
59	2	PL	1/4	22'0	CVN
60	2	PL	1/4	22'0	CVN
61	2	PL	1/4	22'0	CVN
62	2	PL	1/4	22'0	CVN
63	2	PL	1/4	22'0	CVN
64	2	PL	1/4	22'0	CVN
65	2	PL	1/4	22'0	CVN
66	2	PL	1/4	22'0	CVN
67	2	PL	1/4	22'0	CVN
68	2	PL	1/4	22'0	CVN
69	2	PL	1/4	22'0	CVN
70	2	PL	1/4	22'0	CVN
71	2	PL	1/4	22'0	CVN
72	2	PL	1/4	22'0	CVN
73	2	PL	1/4	22'0	CVN
74	2	PL	1/4	22'0	CVN
75	2	PL	1/4	22'0	CVN
76	2	PL	1/4	22'0	CVN
77	2	PL	1/4	22'0	CVN
78	2	PL	1/4	22'0	CVN
79	2	PL	1/4	22'0	CVN
80	2	PL	1/4	22'0	CVN
81	2	PL	1/4	22'0	CVN
82	2	PL	1/4	22'0	CVN
83	2	PL	1/4	22'0	CVN
84	2	PL	1/4	22'0	CVN
85	2	PL	1/4	22'0	CVN
86	2	PL	1/4	22'0	CVN
87	2	PL	1/4	22'0	CVN
88	2	PL	1/4	22'0	CVN
89	2	PL	1/4	22'0	CVN
90	2	PL	1/4	22'0	CVN
91	2	PL	1/4	22'0	CVN
92	2	PL	1/4	22'0	CVN
93	2	PL	1/4	22'0	CVN
94	2	PL	1/4	22'0	CVN
95	2	PL	1/4	22'0	CVN
96	2	PL	1/4	22'0	CVN
97	2	PL	1/4	22'0	CVN
98	2	PL	1/4	22'0	CVN
99	2	PL	1/4	22'0	CVN
100	2	PL	1/4	22'0	CVN

CITY OF DETROIT
CITY ENGINEERING DEPARTMENT
ALPHABETICALLY INDEXED

FOR CO. APPROVAL WITH CONTRACT NO. M 4522
THE APPROVAL SHALL NOT RELIEVE THE CONTRACTOR
OF ANY RESPONSIBILITY COVERED BY THE CONTRACT
DATE: MAR. 2, 1977

PHILIP ZWEIF & SONS
2100 STRAIVE
BUILDING BRADLEY AVE. BAYLON, CHASSANT, THE P.C.R.R.
OWNER: CITY OF DETROIT, MICH.
LOCATION: DETROIT, MICH.
CONTRACTOR: WALTER TEBBE CONSTRUCTION COMPANY
ARCHITECT: CITY ENGINEERING DEPT., CITY OF DETROIT, MICH.
TITLE: STRINGER, SPAN 3

RIVETS: NONE
HOLES: 3/8" DIA.
PAINT: NONE

CONTRACT 3-5 SHEET 32 OF 53

SNIP NOTES:
1. SEE SHEET E4 FSK
GENERAL NOTES:
2. MATL: A558 U.N.

SECT. E-E

SECT. D-D

SECT. F-F
(SHOWN DEVELOPED)

SECT. G-G
(SHOWN DEVELOPED)

SECT. A-A
(SHOWN DEVELOPED)

SECT. B-B
(SHOWN DEVELOPED)

SECT. C-C
(SHOWN DEVELOPED)

SECT. D-D
(SHOWN DEVELOPED)

SECT. E-E
(SHOWN DEVELOPED)

SECT. F-F
(SHOWN DEVELOPED)

SECT. G-G
(SHOWN DEVELOPED)

SECT. H-H
(SHOWN DEVELOPED)

SECT. I-I
(SHOWN DEVELOPED)

SECT. J-J
(SHOWN DEVELOPED)

SECT. K-K
(SHOWN DEVELOPED)

SECT. L-L
(SHOWN DEVELOPED)

SECT. M-M
(SHOWN DEVELOPED)

SECT. N-N
(SHOWN DEVELOPED)

SECT. O-O
(SHOWN DEVELOPED)

SECT. P-P
(SHOWN DEVELOPED)

SECT. Q-Q
(SHOWN DEVELOPED)

SECT. R-R
(SHOWN DEVELOPED)

SECT. S-S
(SHOWN DEVELOPED)

SECT. T-T
(SHOWN DEVELOPED)

SECT. U-U
(SHOWN DEVELOPED)

SECT. V-V
(SHOWN DEVELOPED)

SECT. W-W
(SHOWN DEVELOPED)

SECT. X-X
(SHOWN DEVELOPED)

SECT. Y-Y
(SHOWN DEVELOPED)

SECT. Z-Z
(SHOWN DEVELOPED)