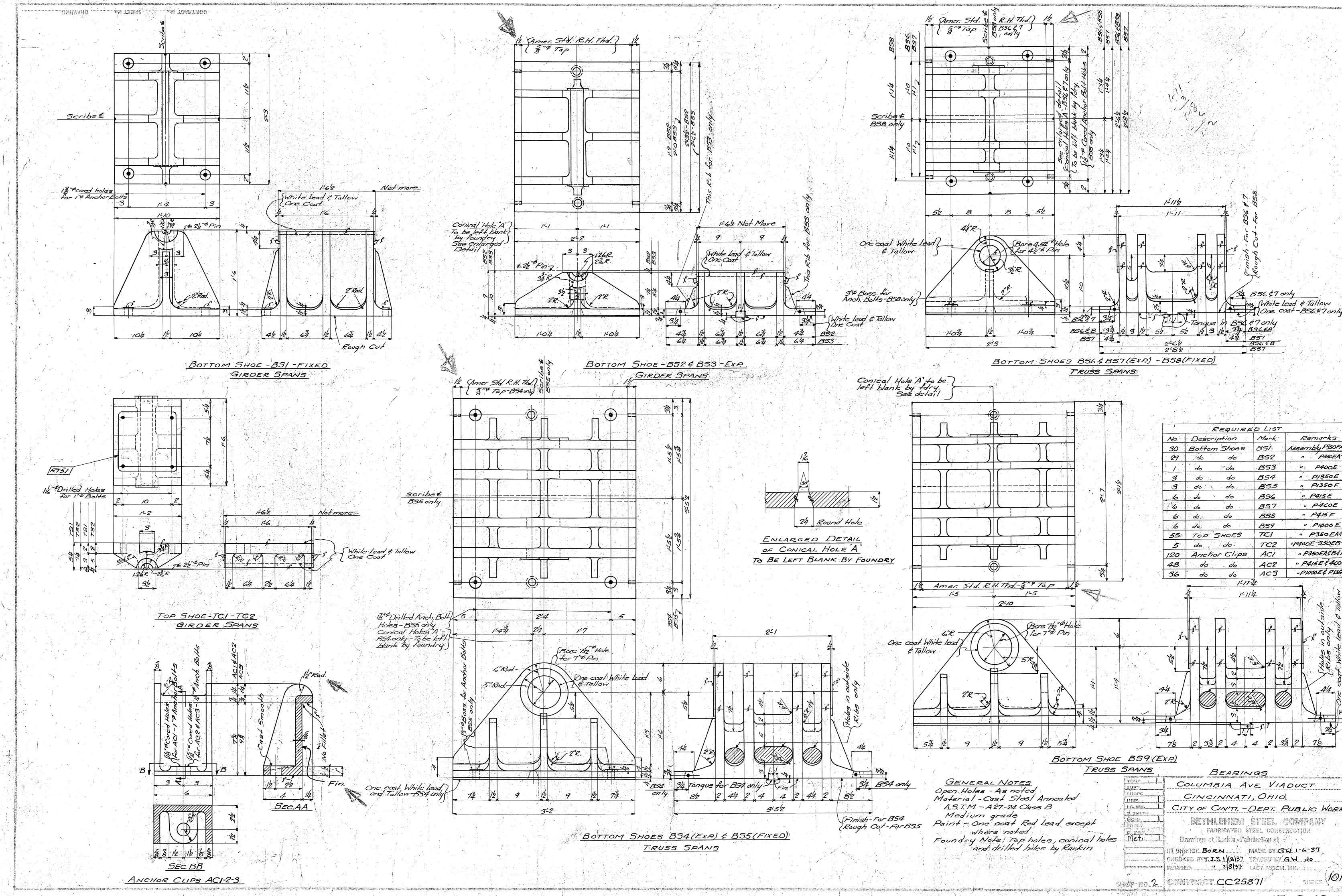
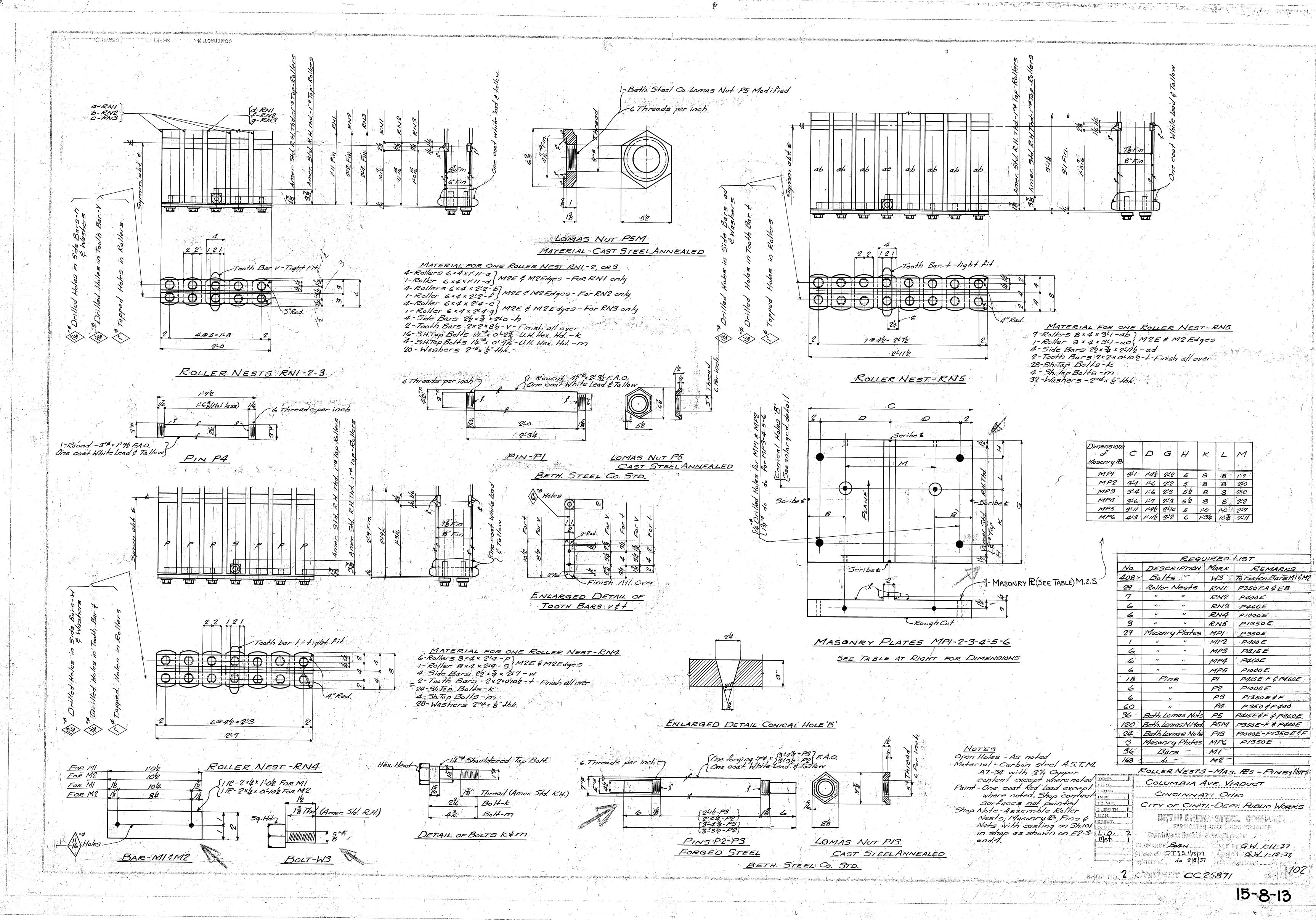
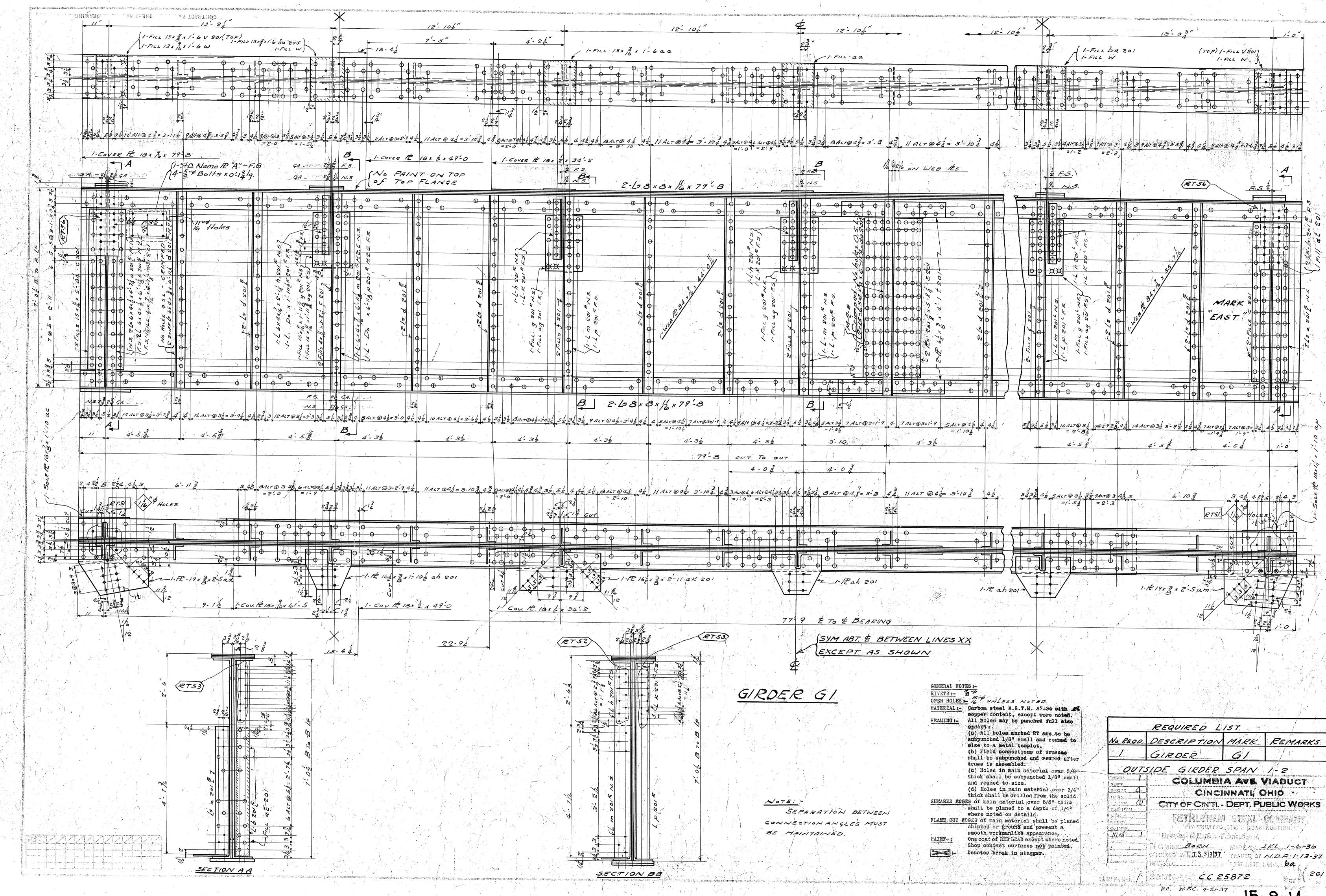


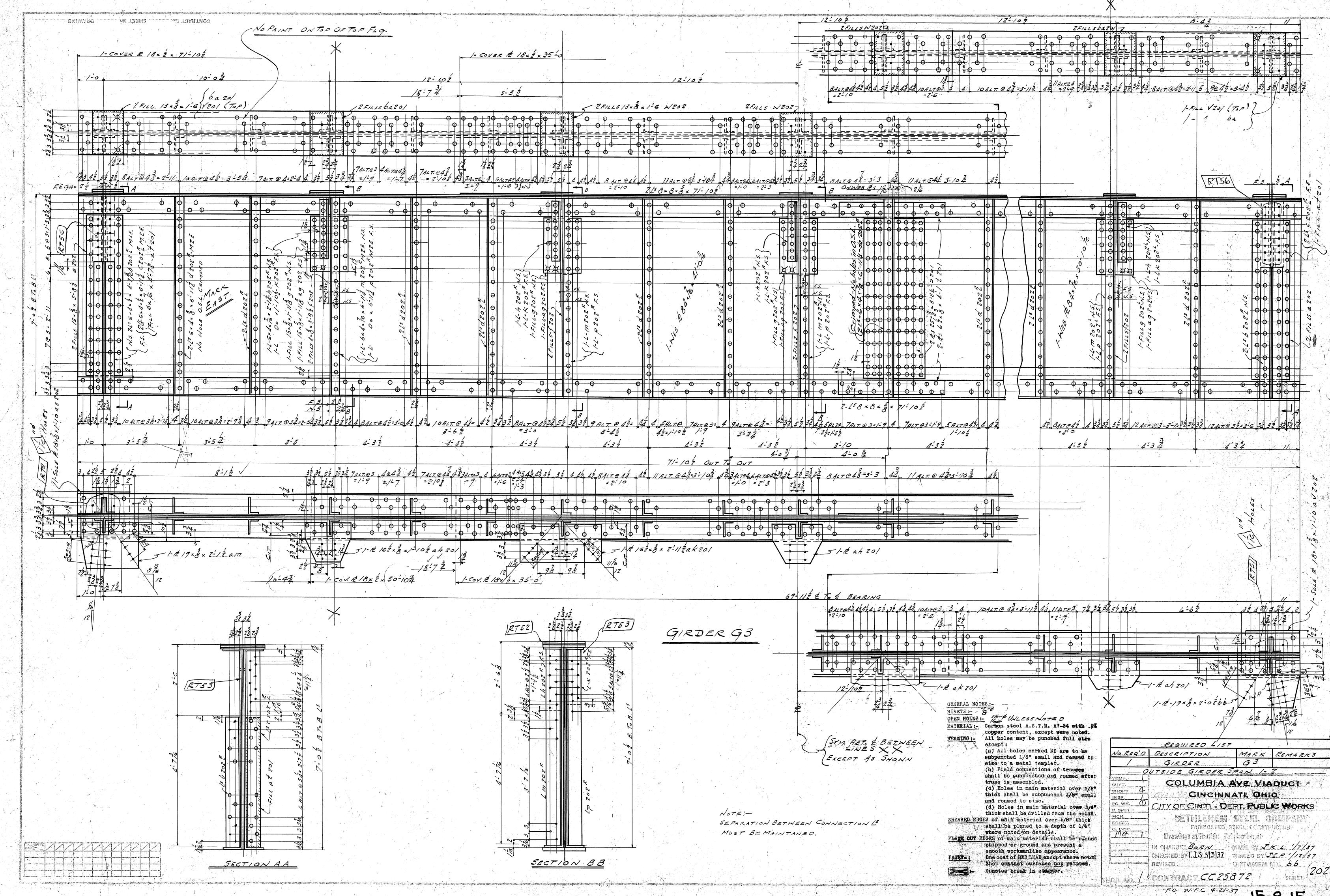
15-8-11



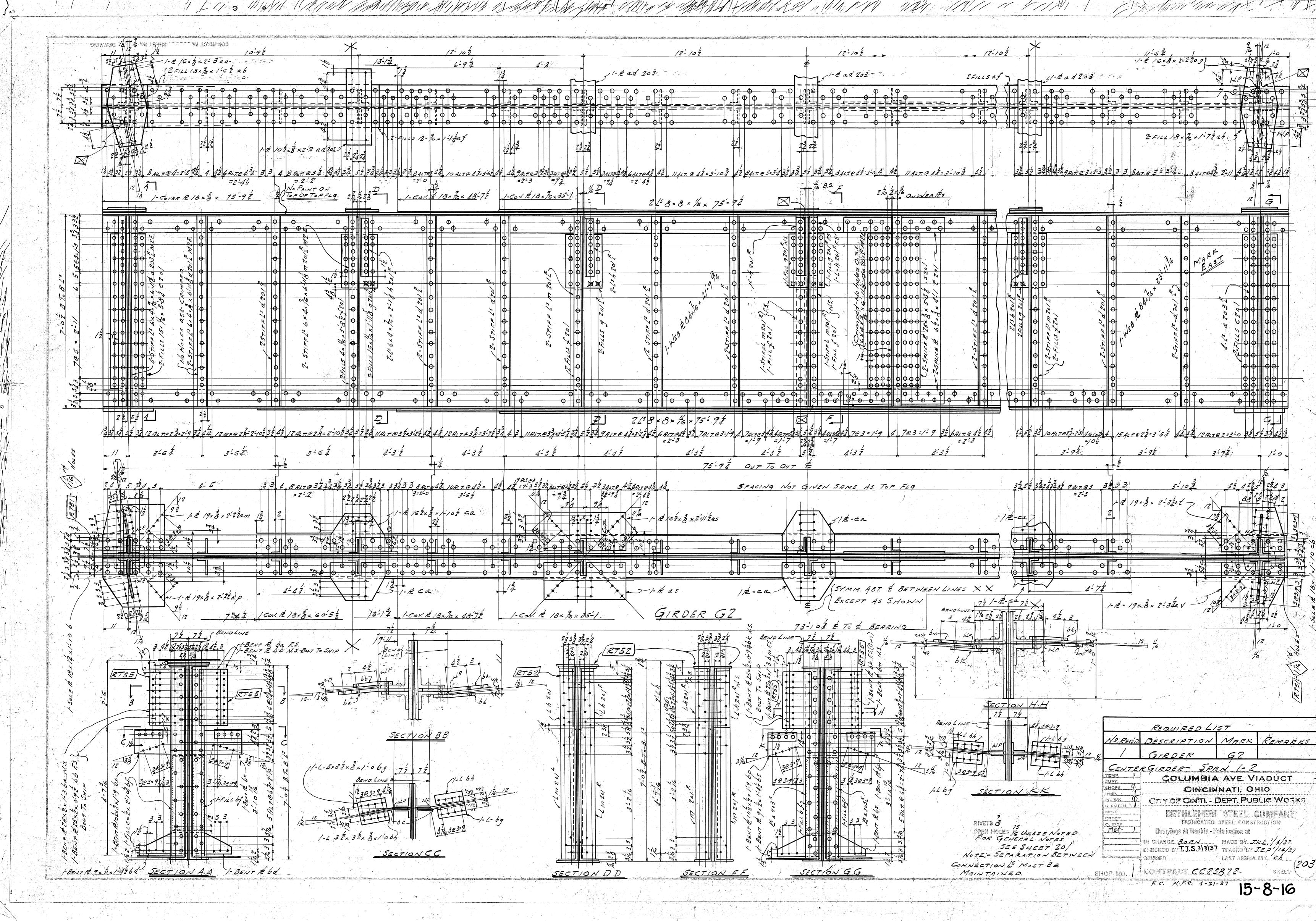
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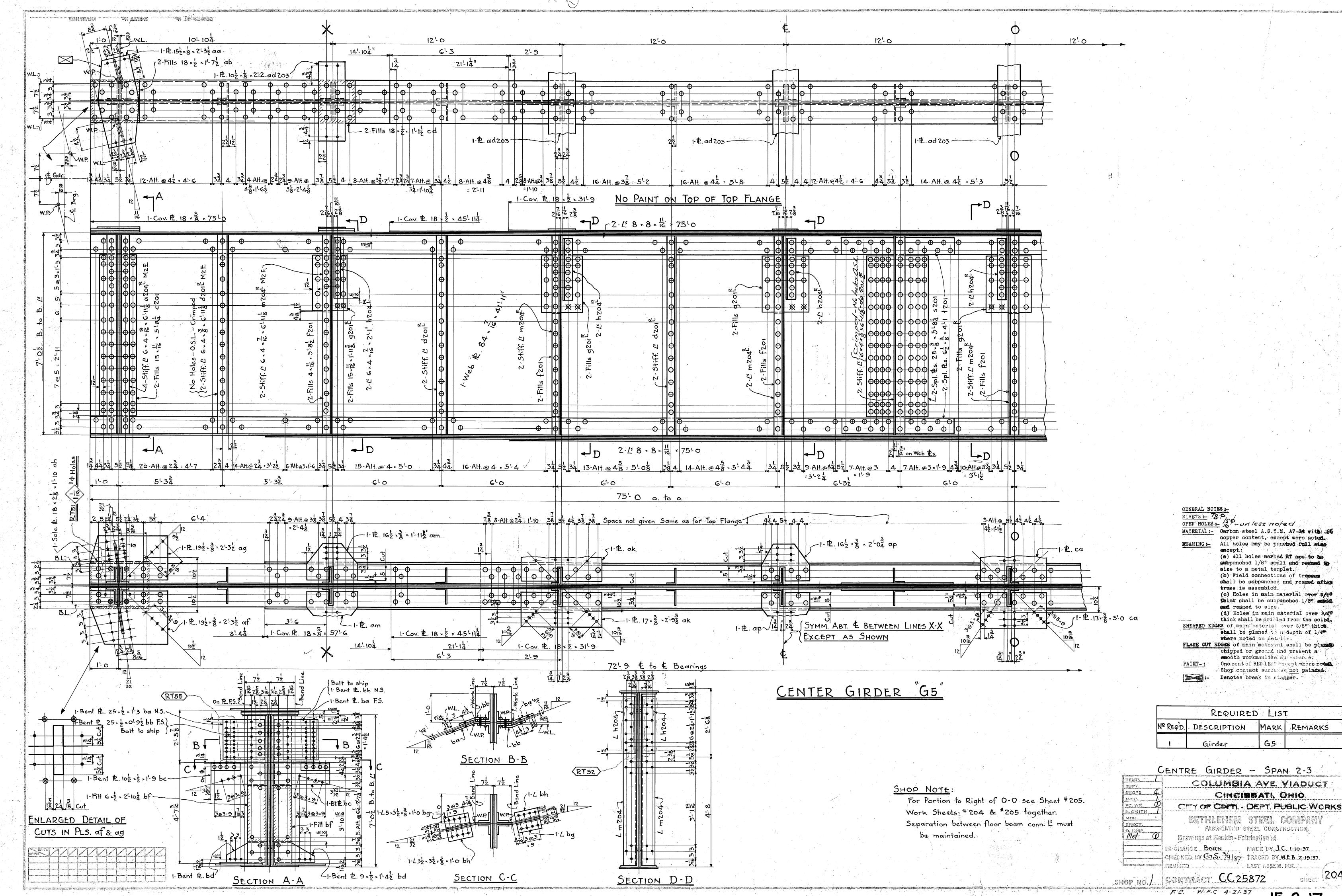






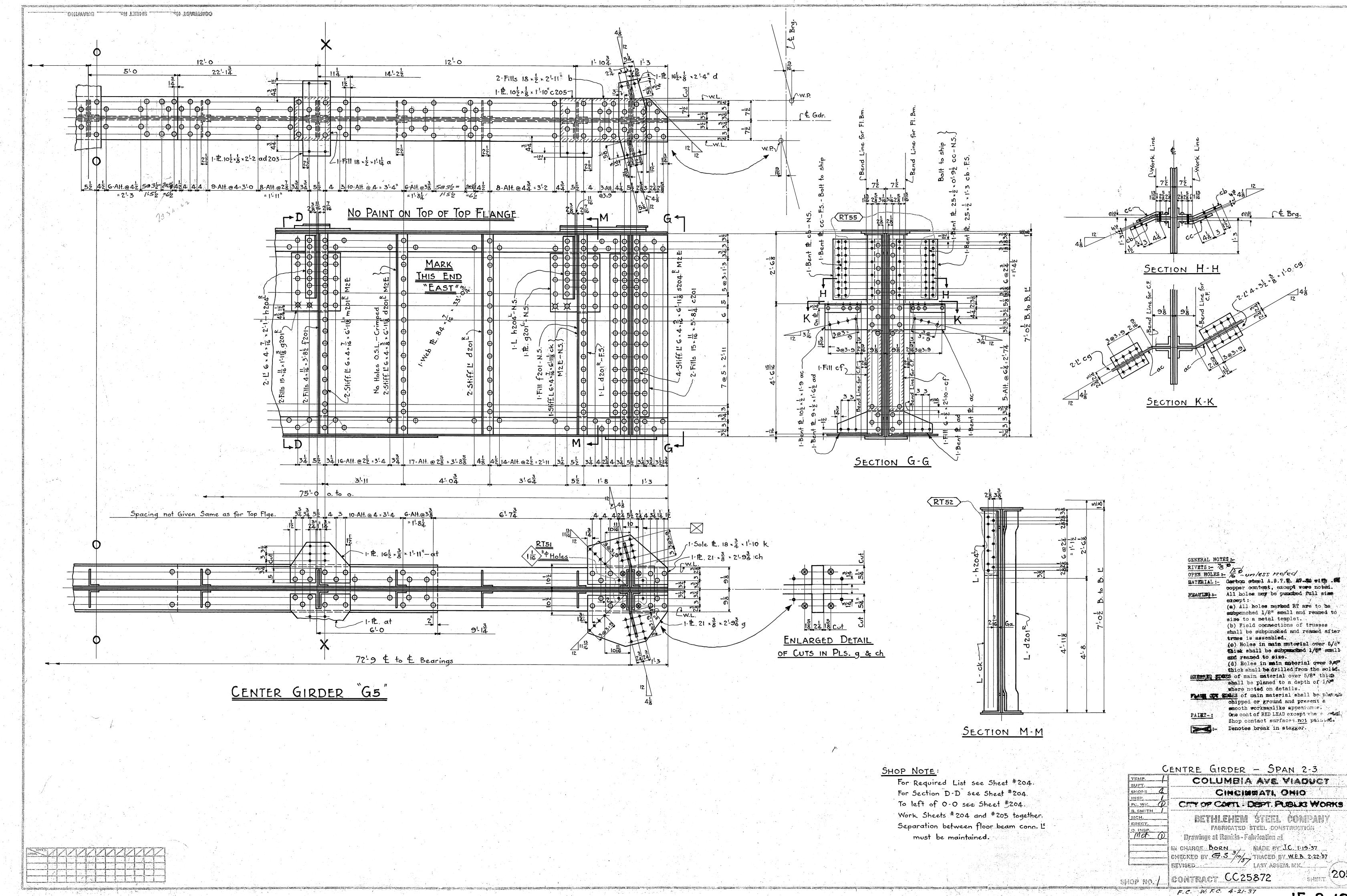
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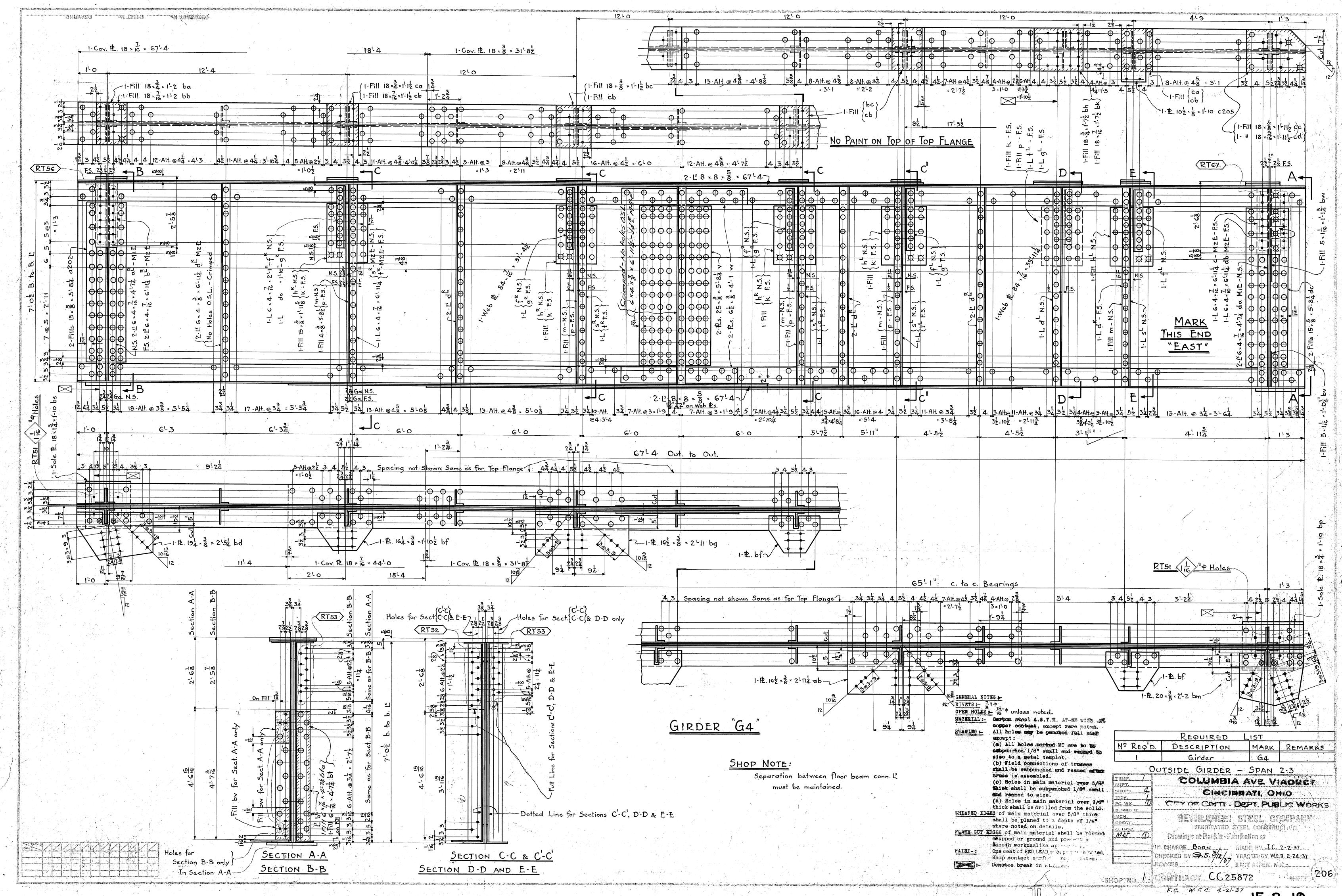


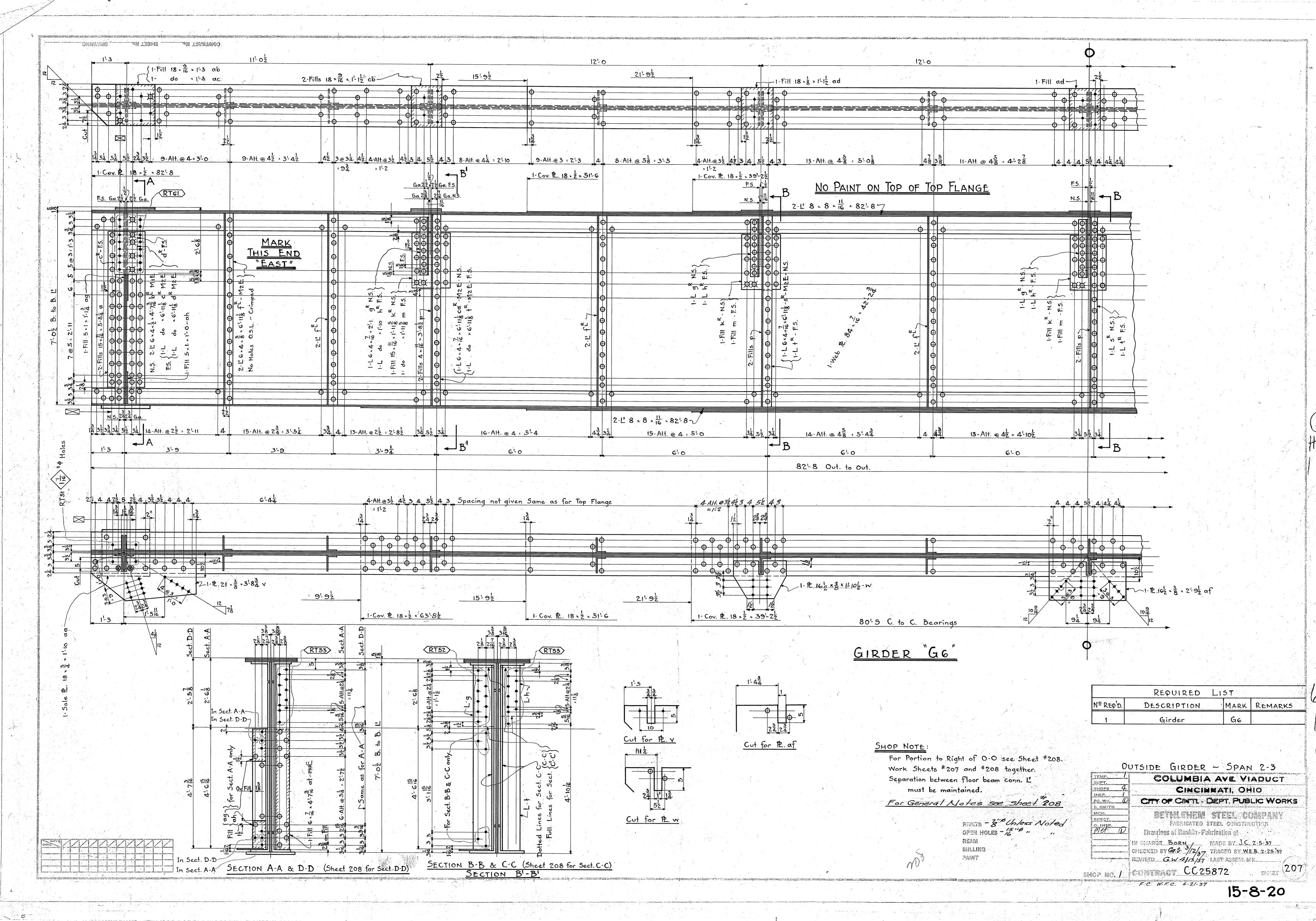
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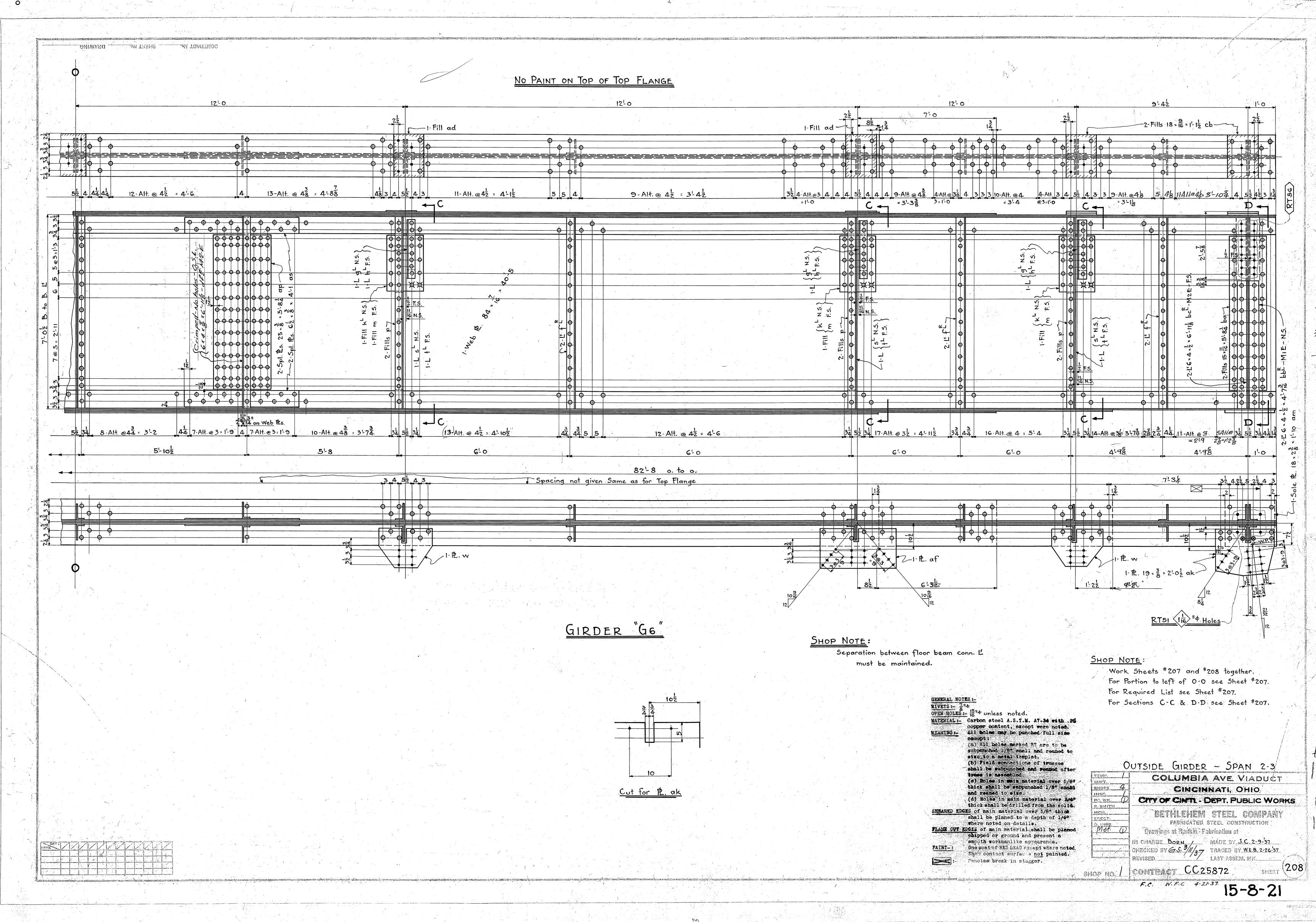
15-8-17

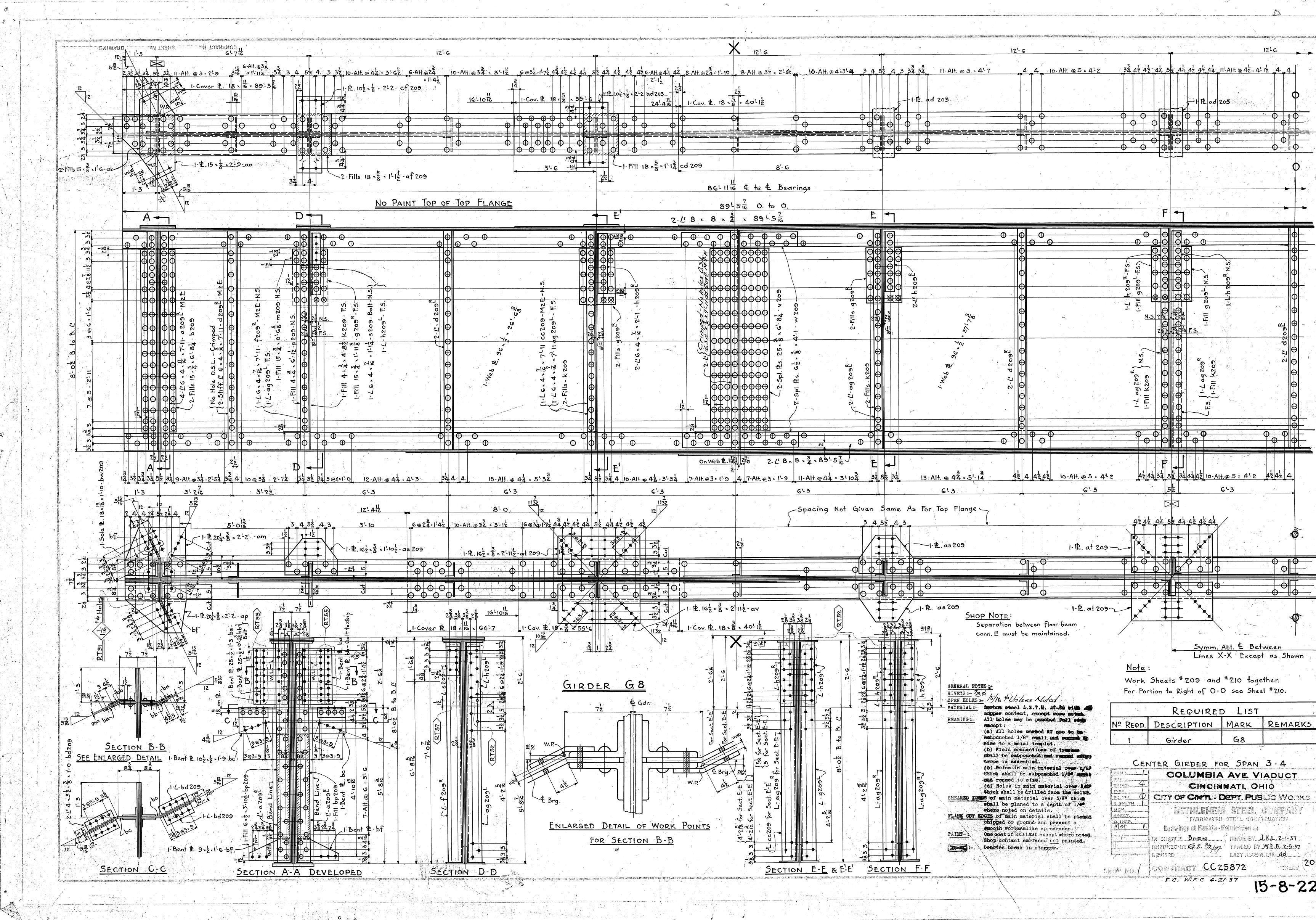


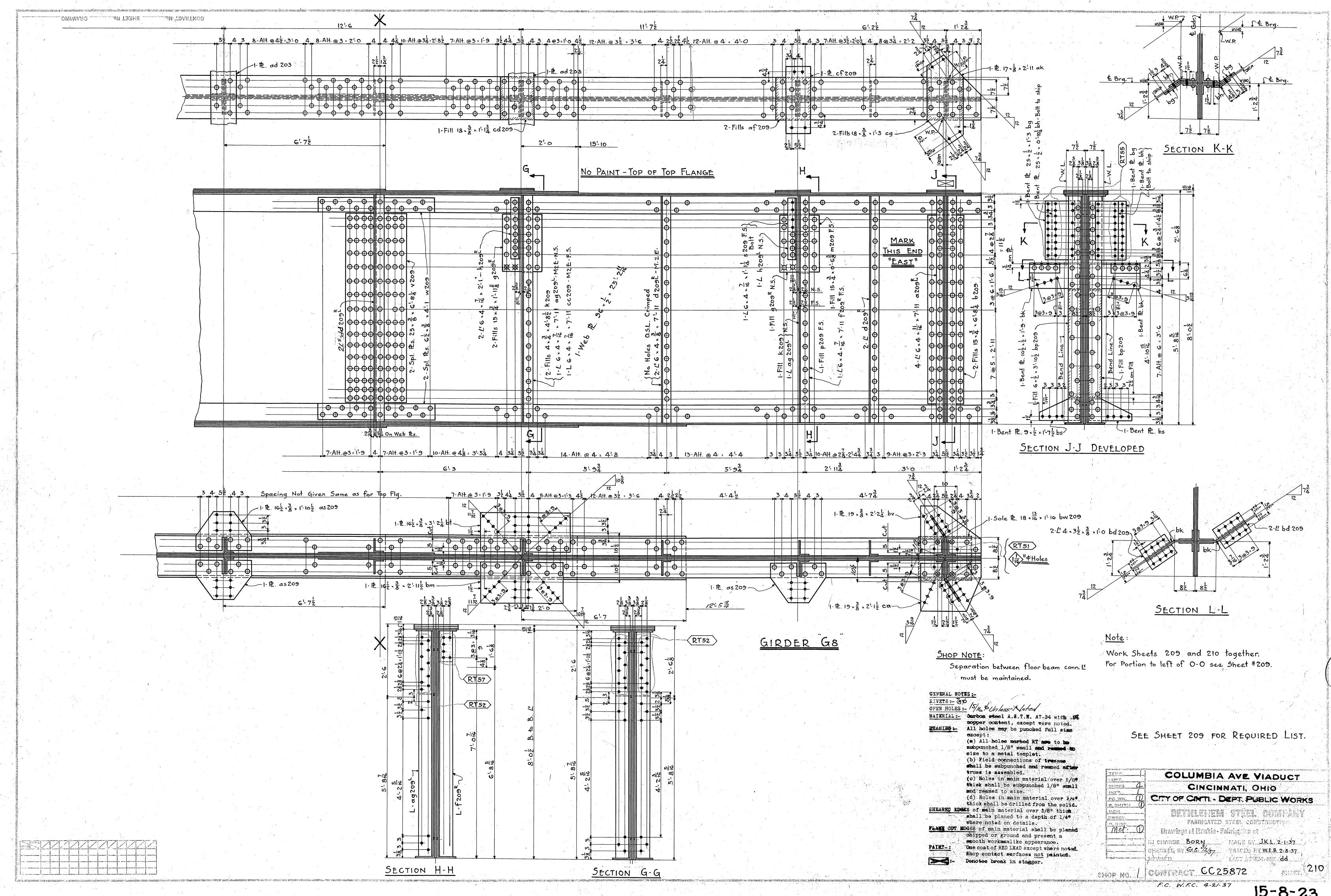
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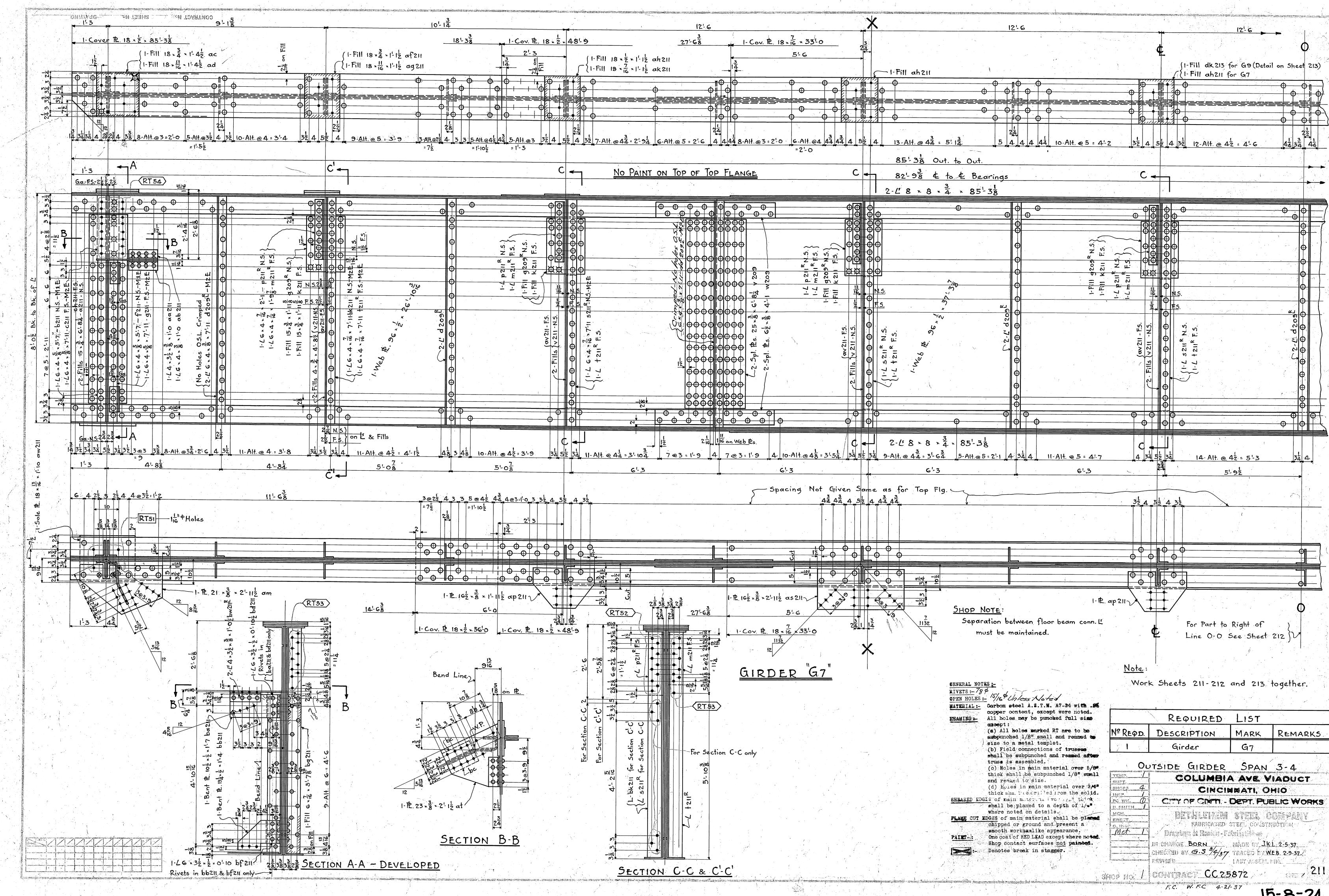


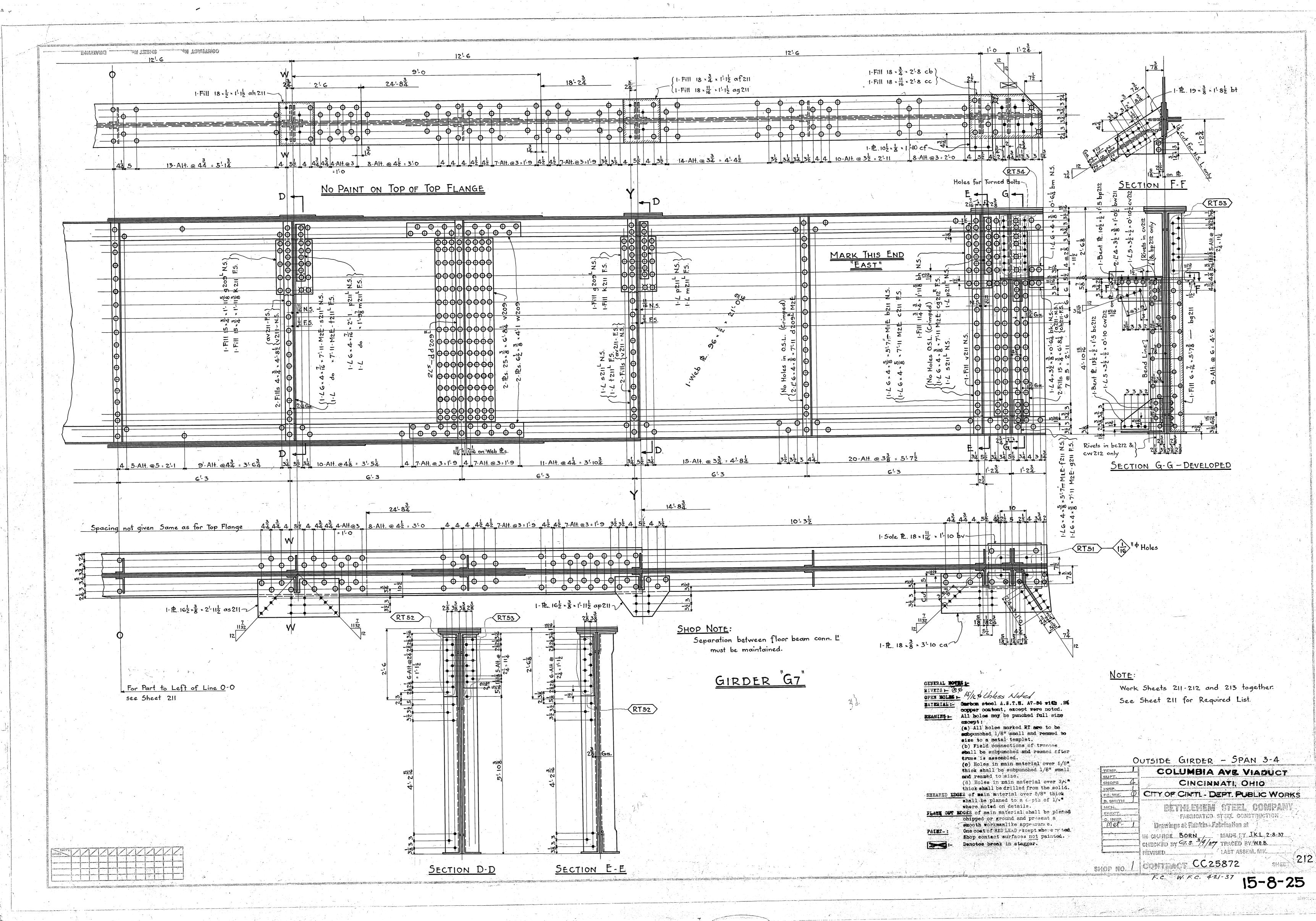


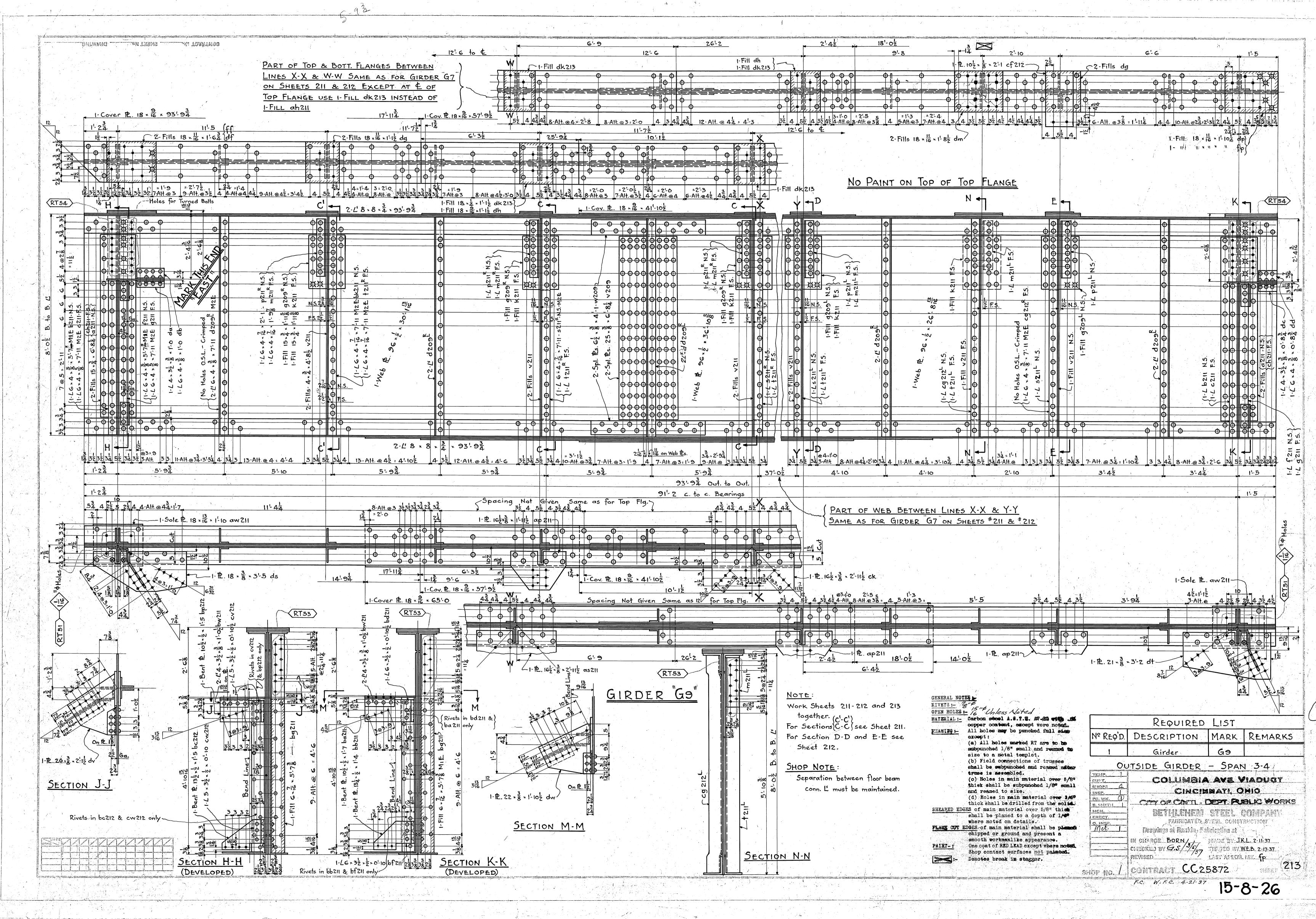


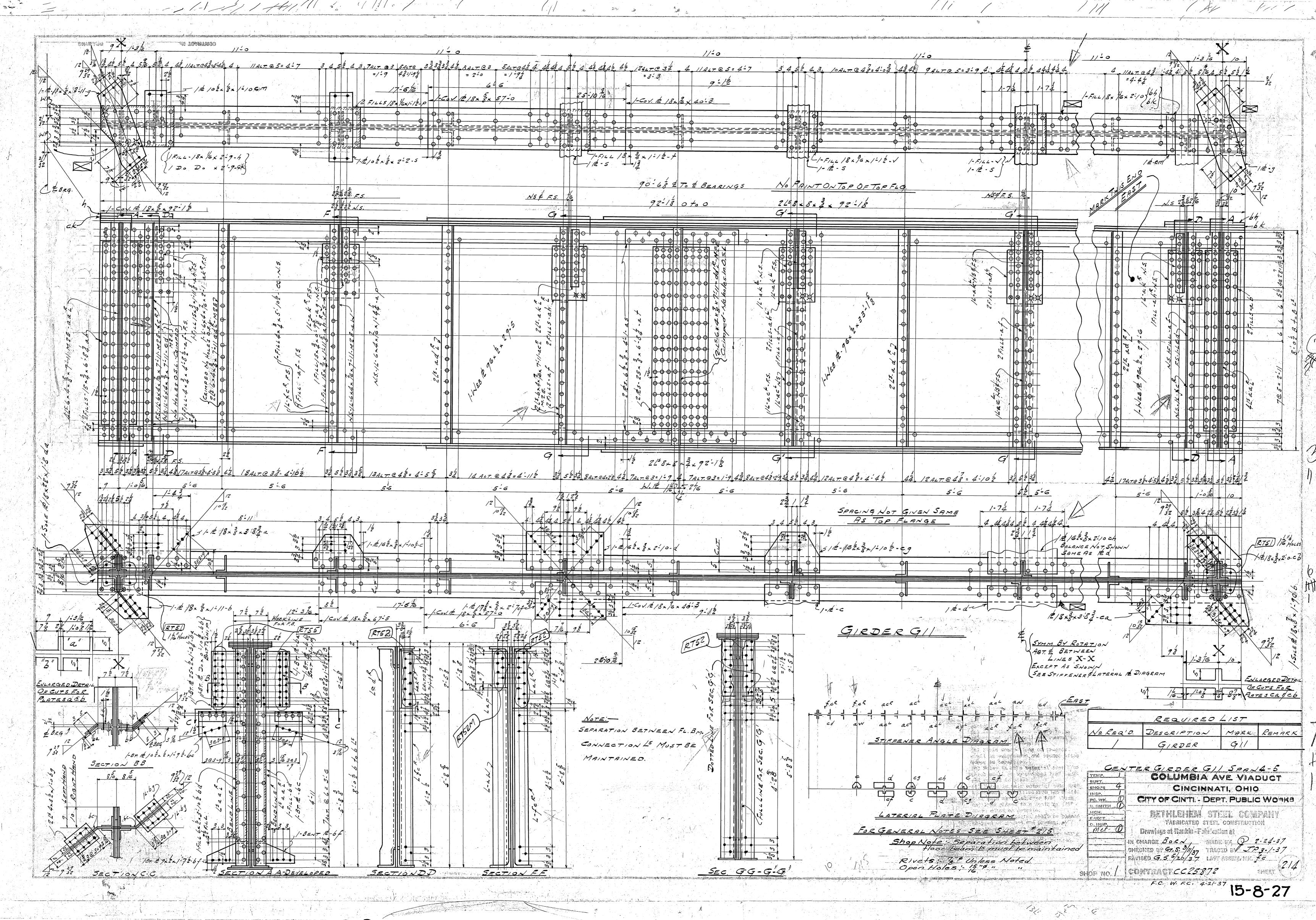


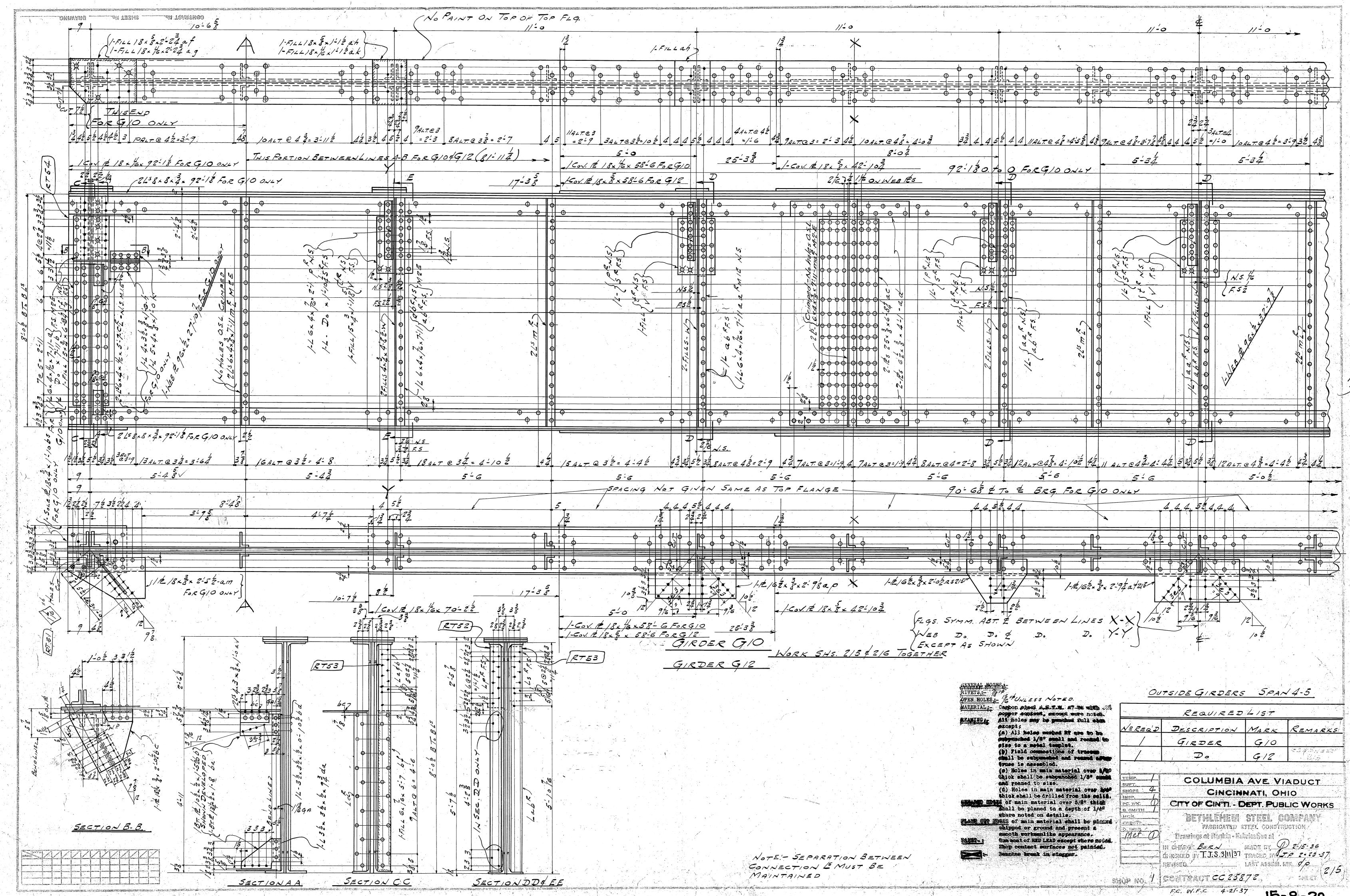


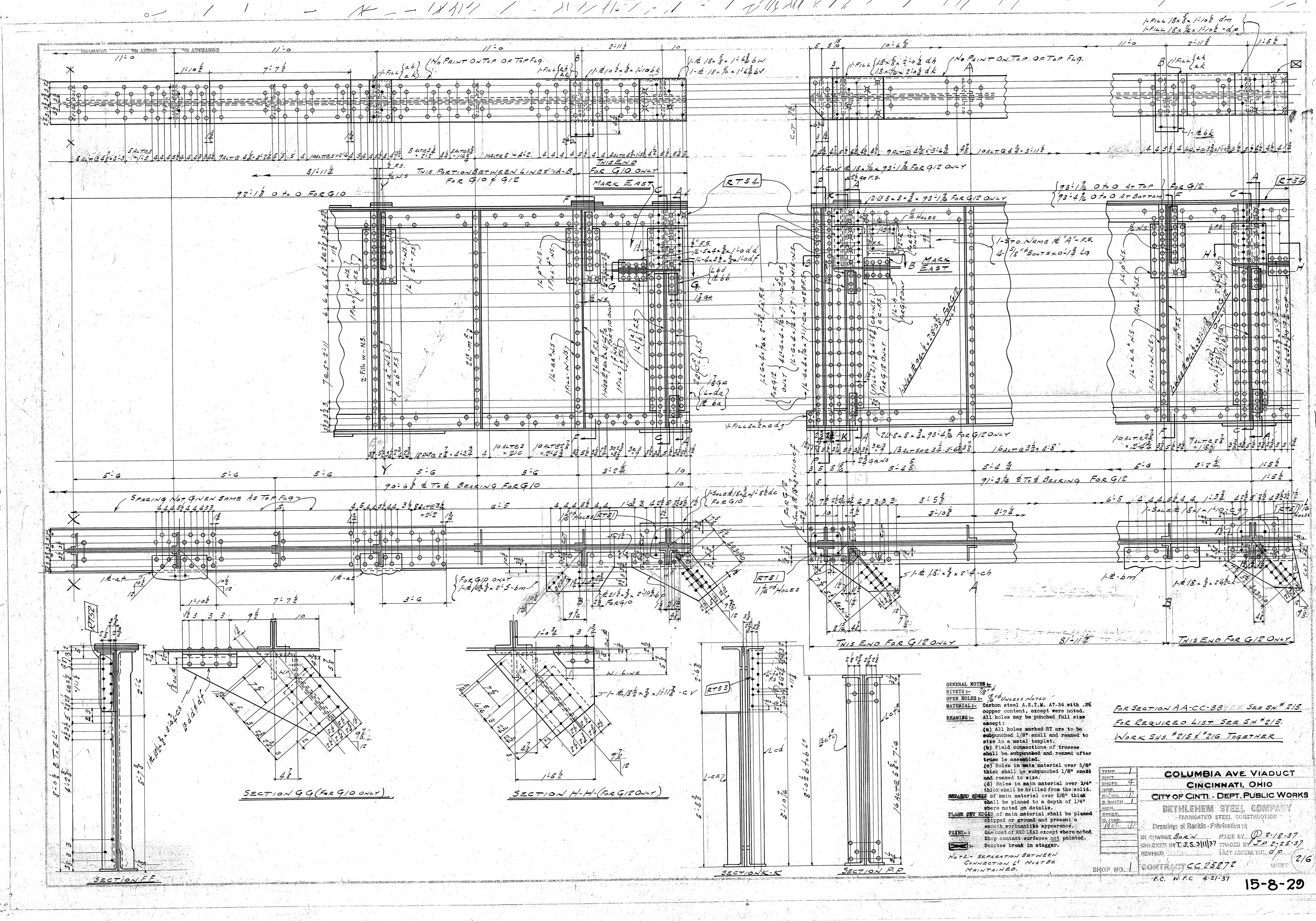


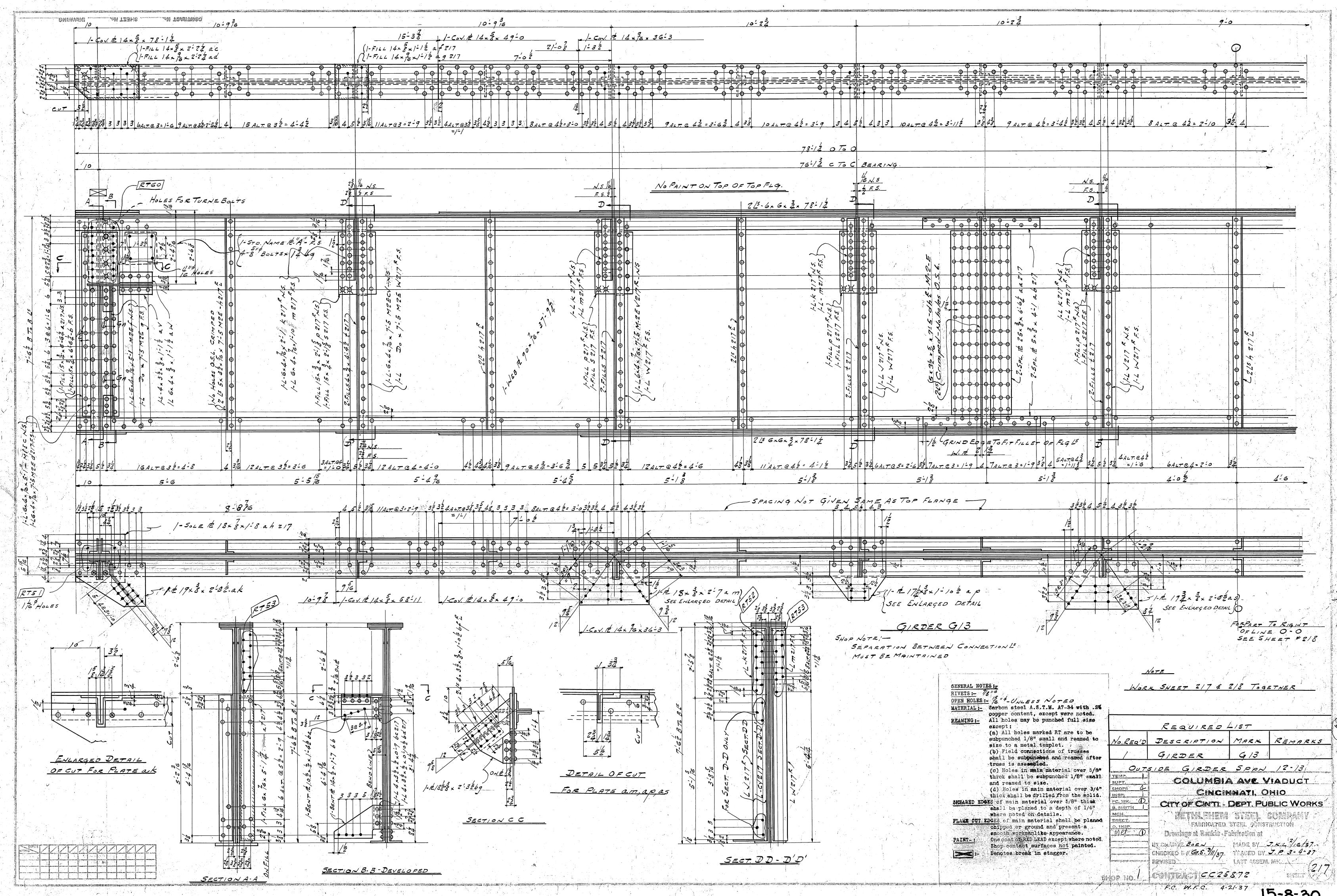


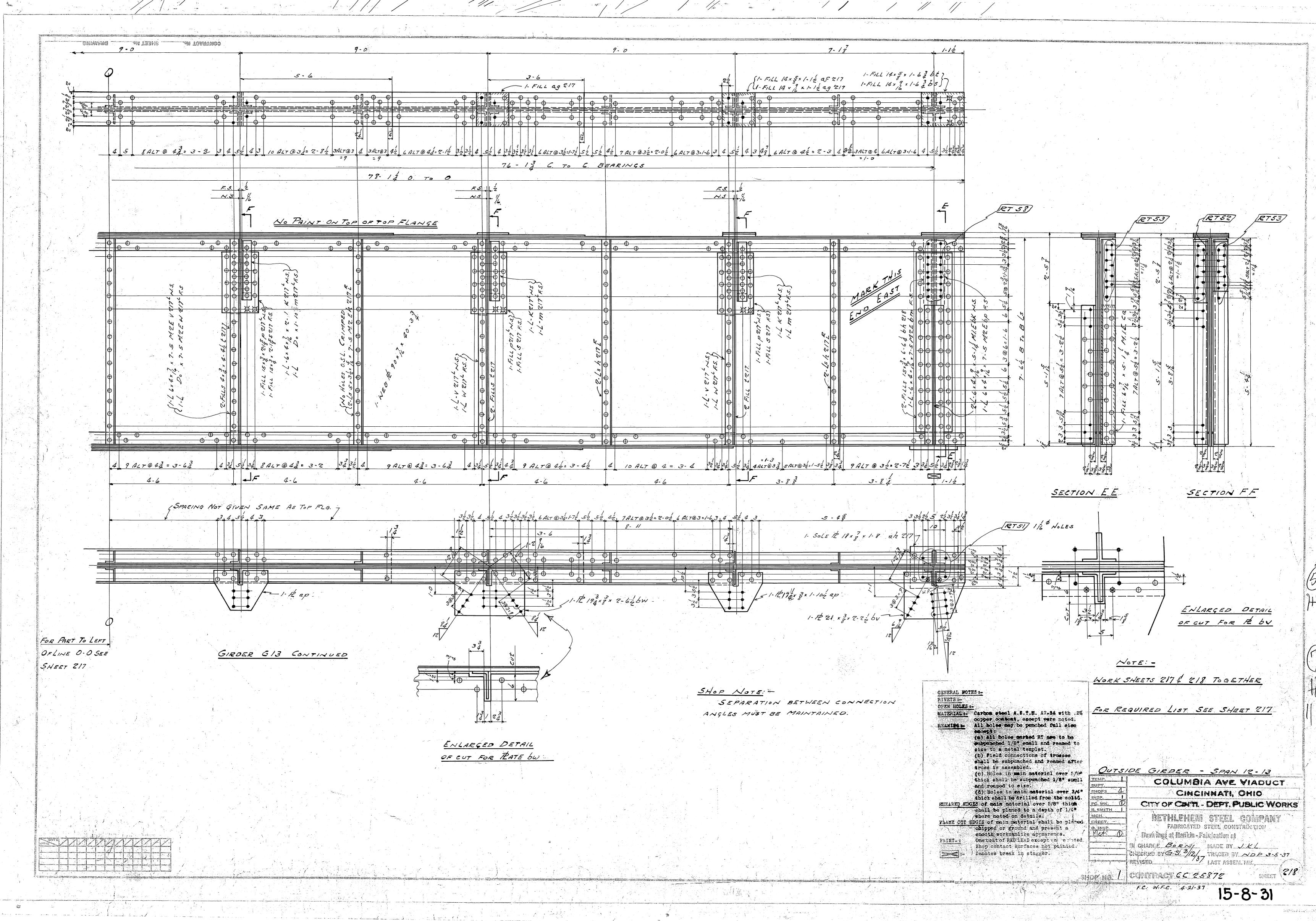


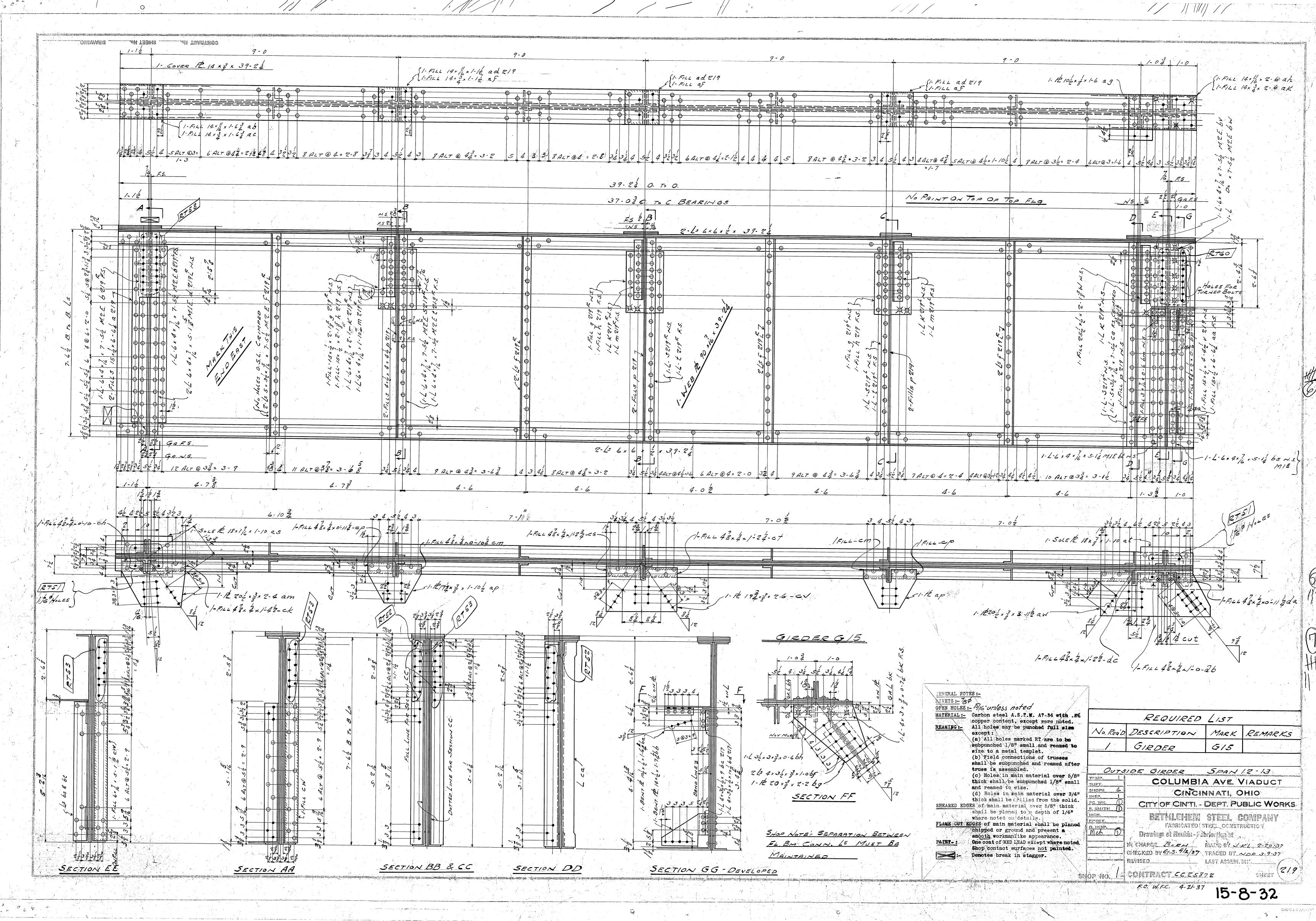


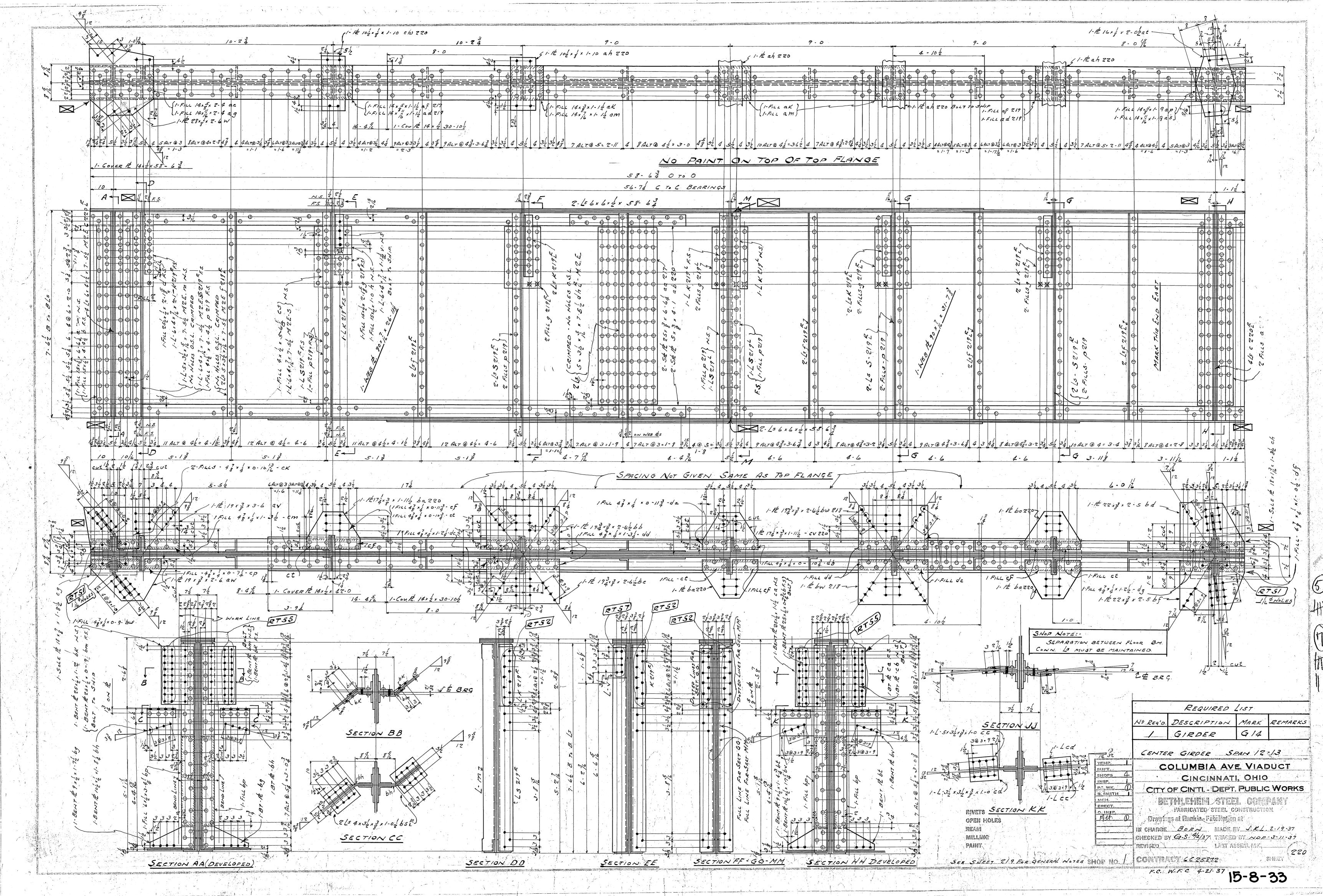


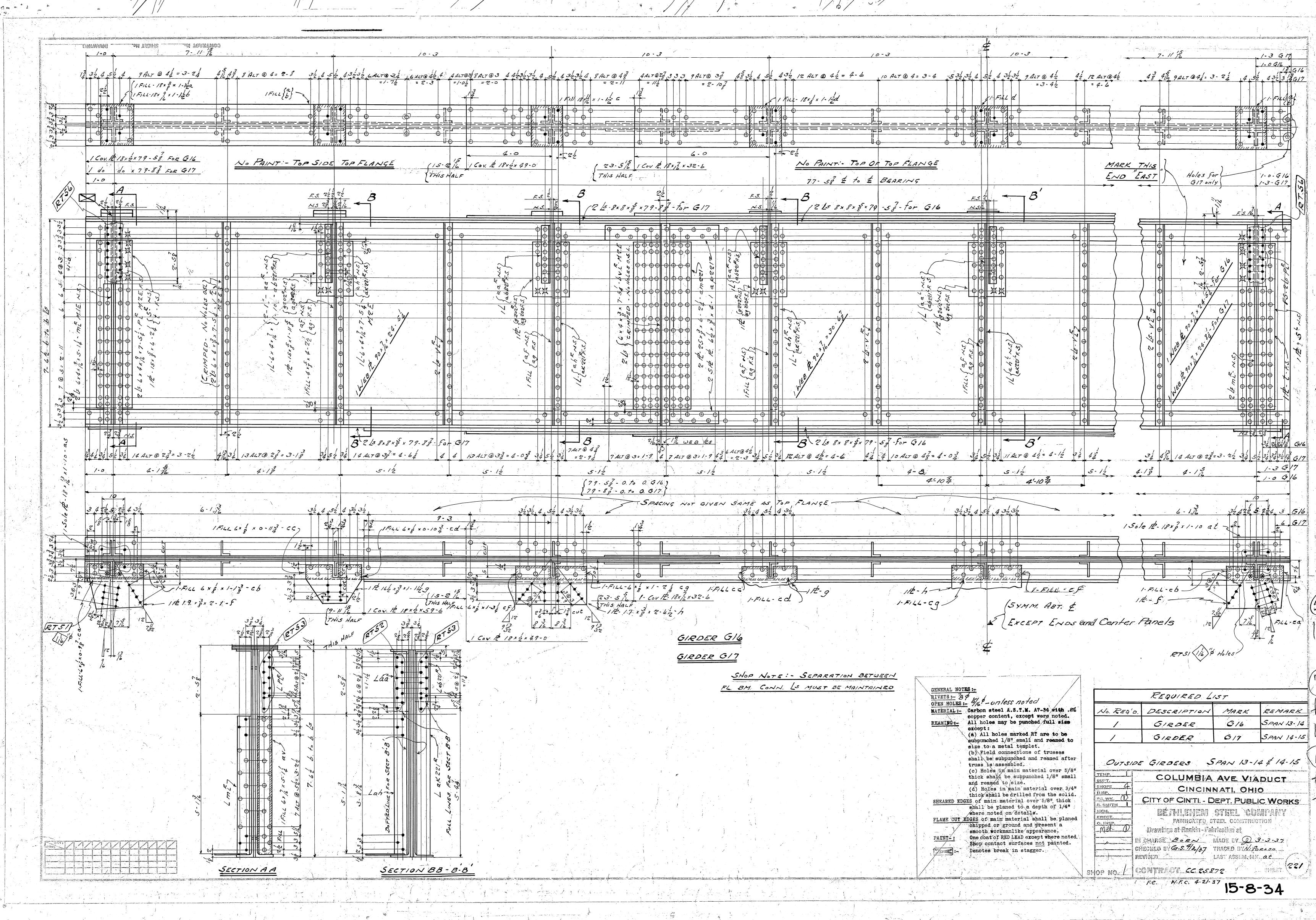


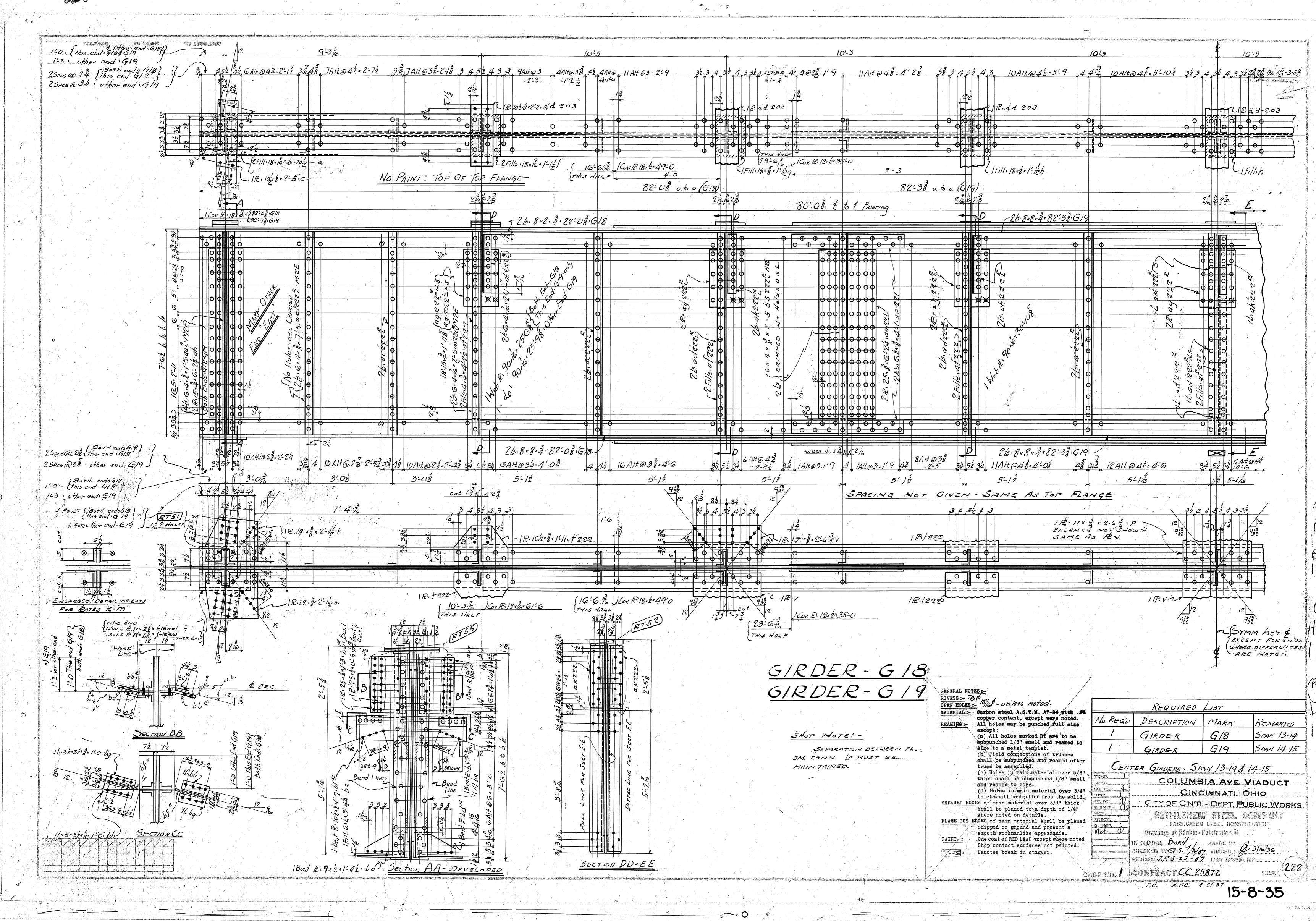


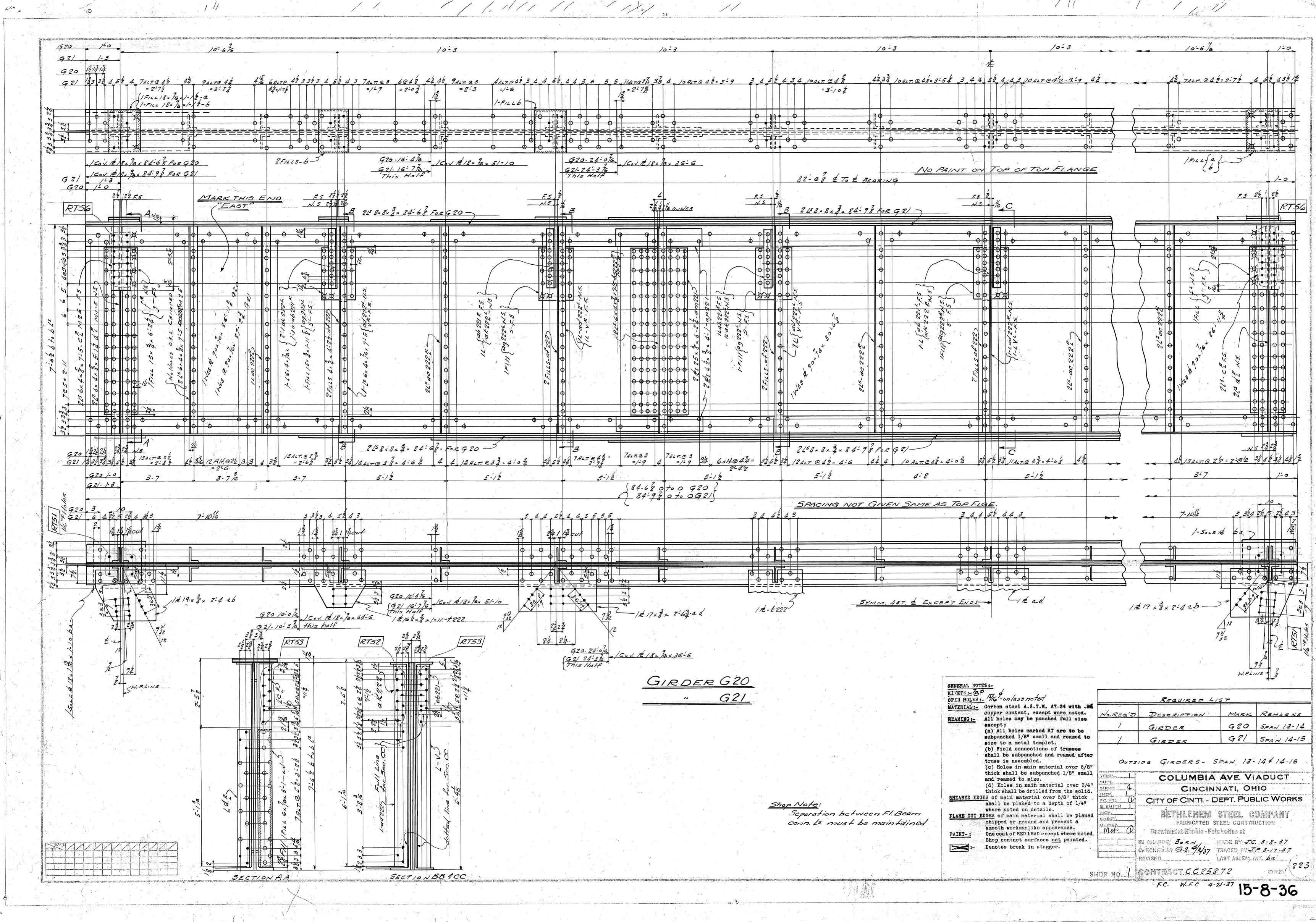


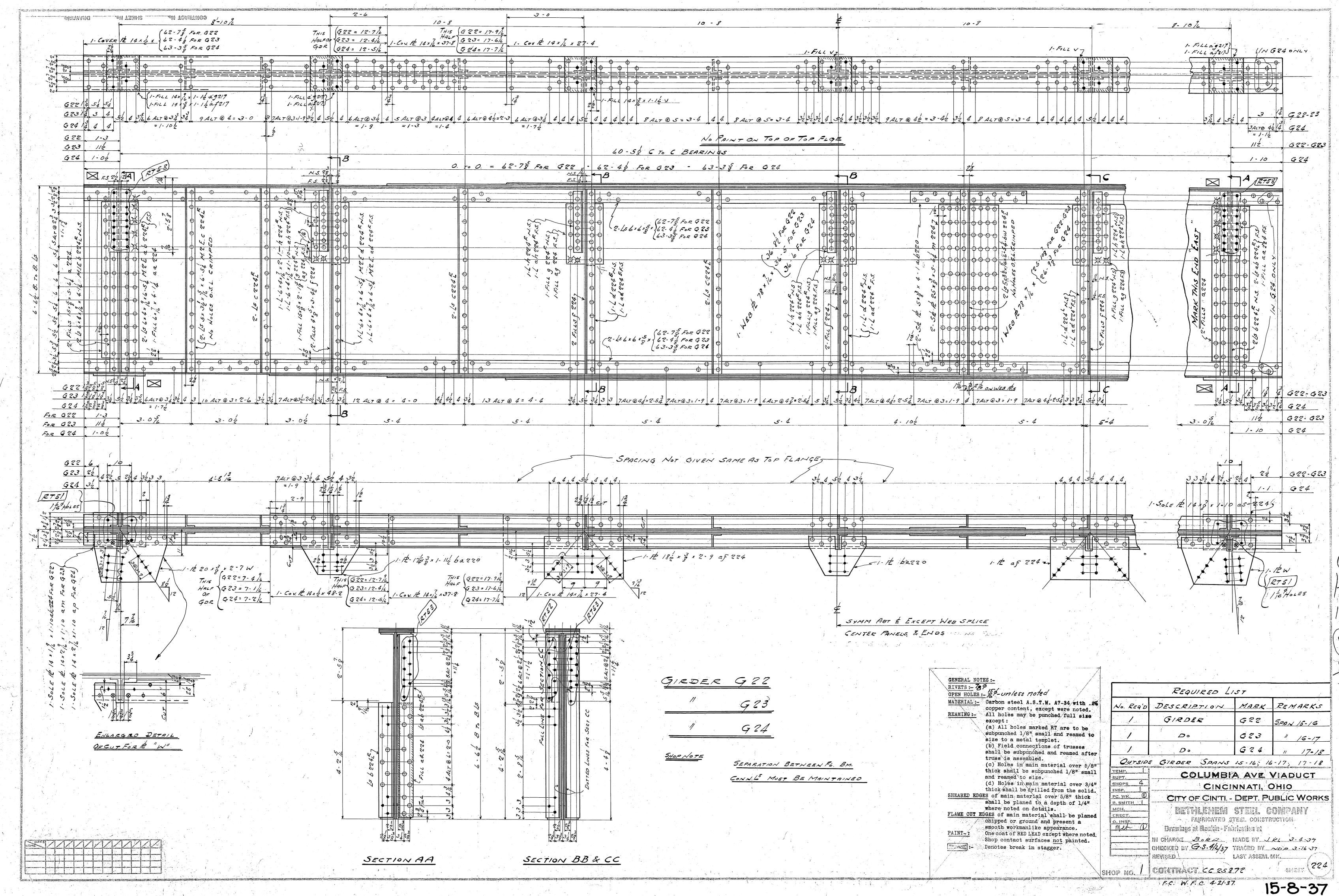


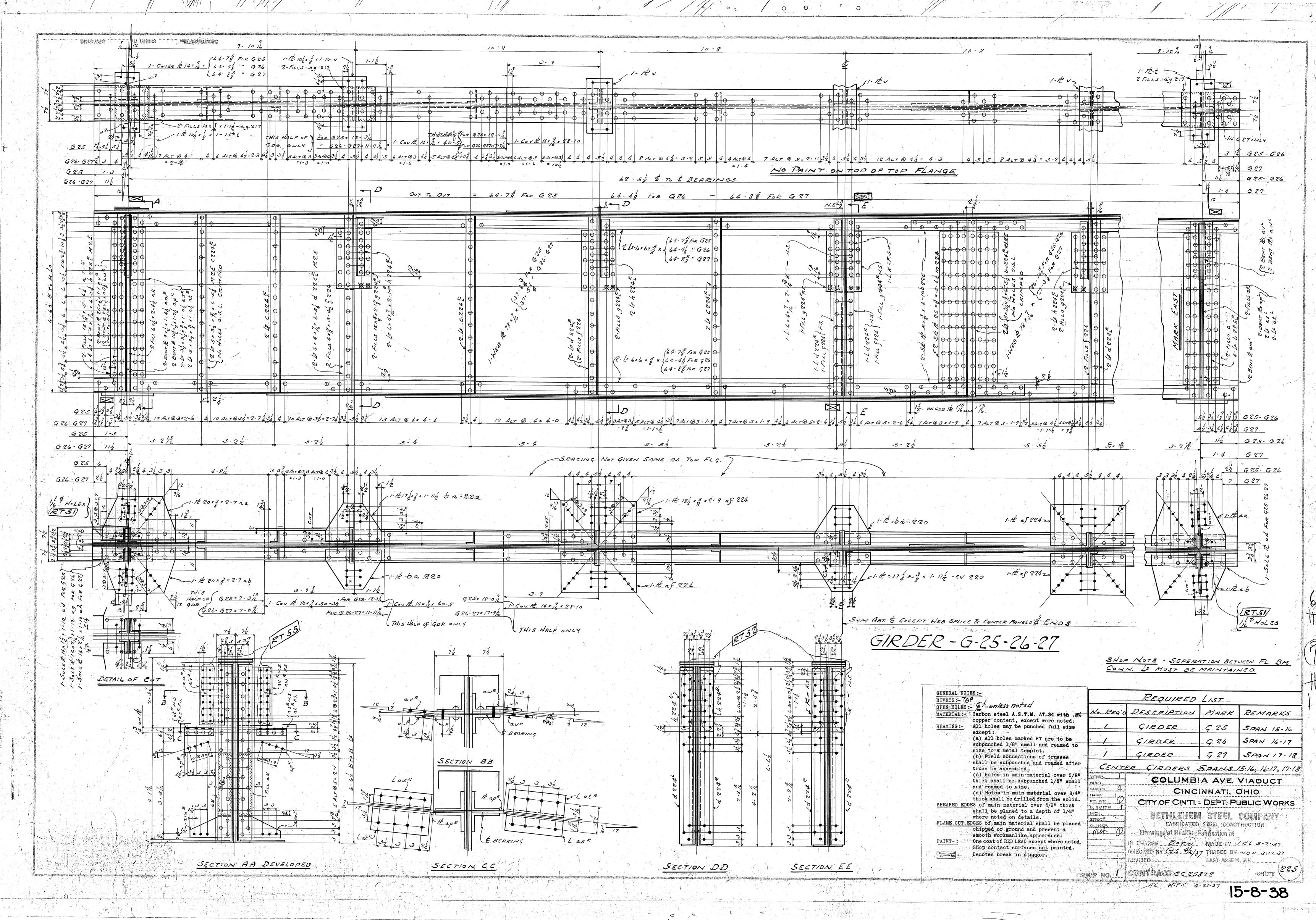


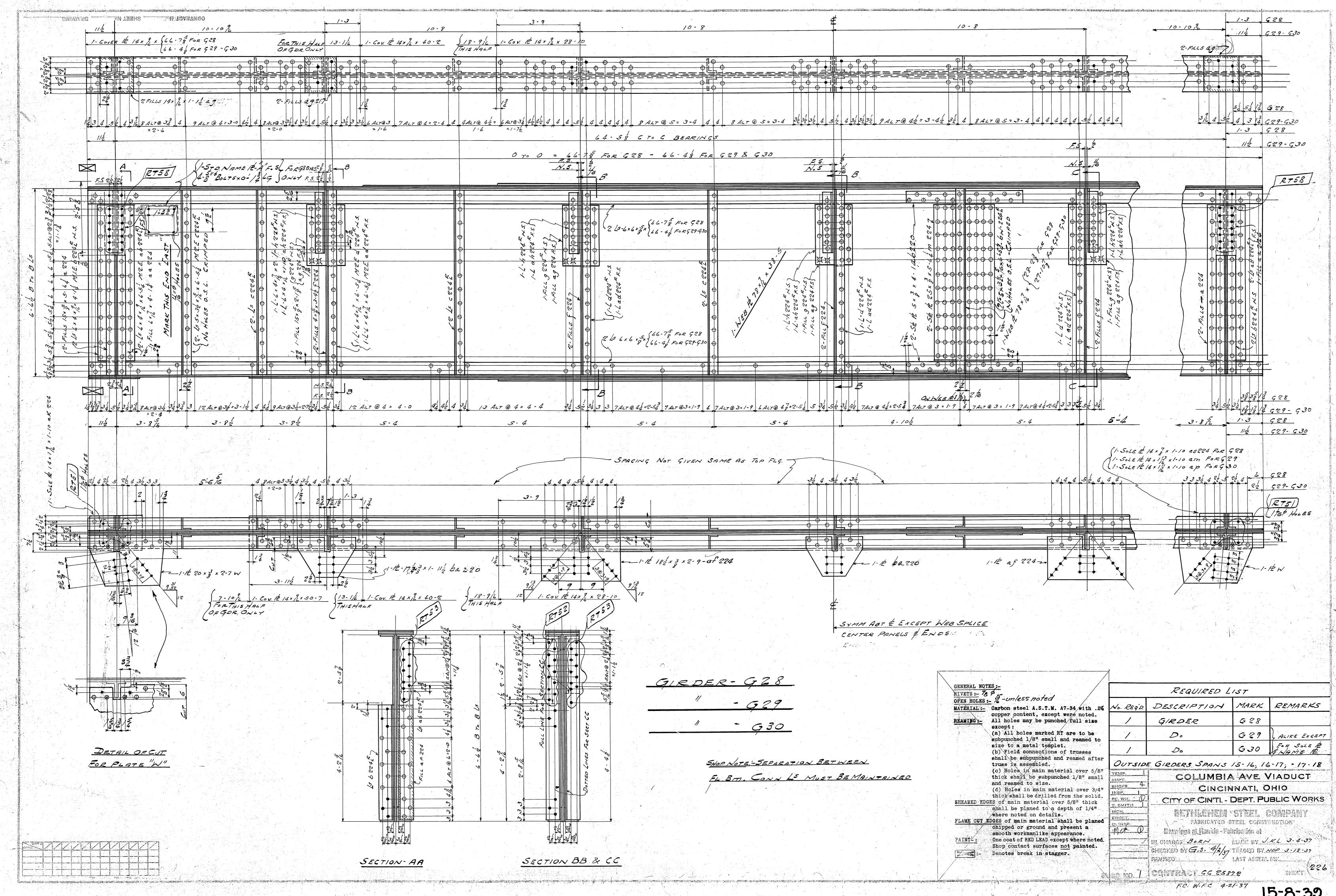


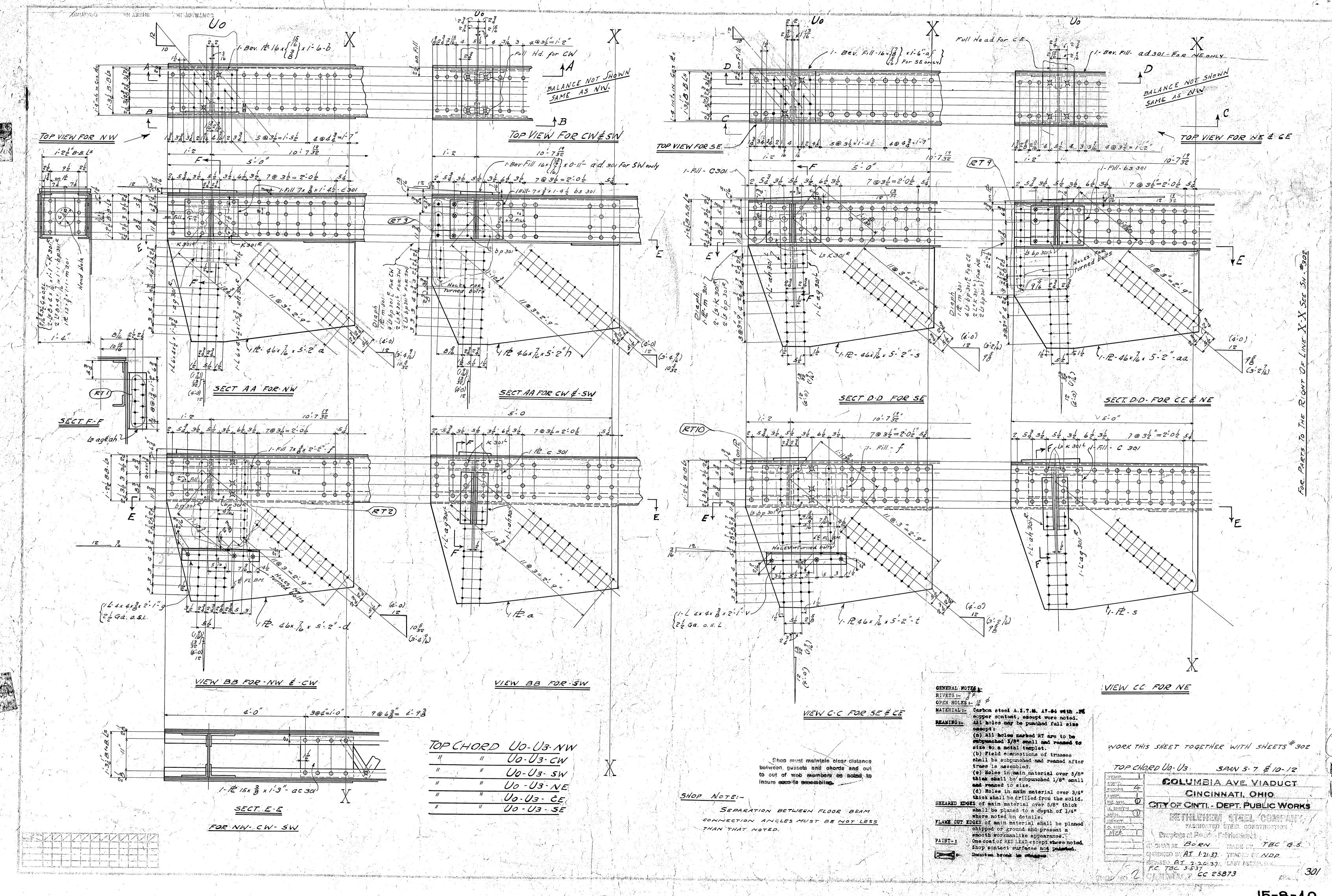


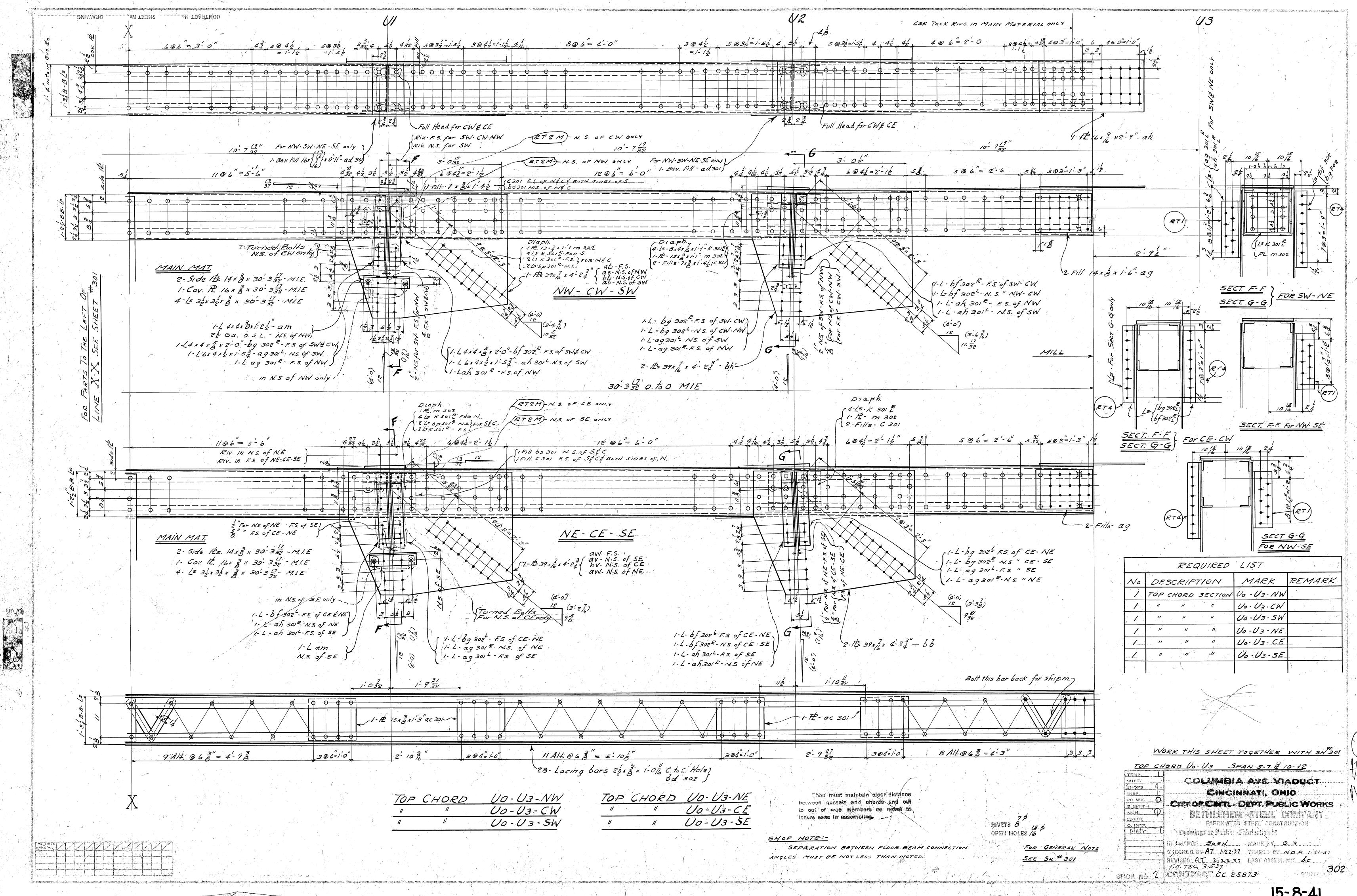


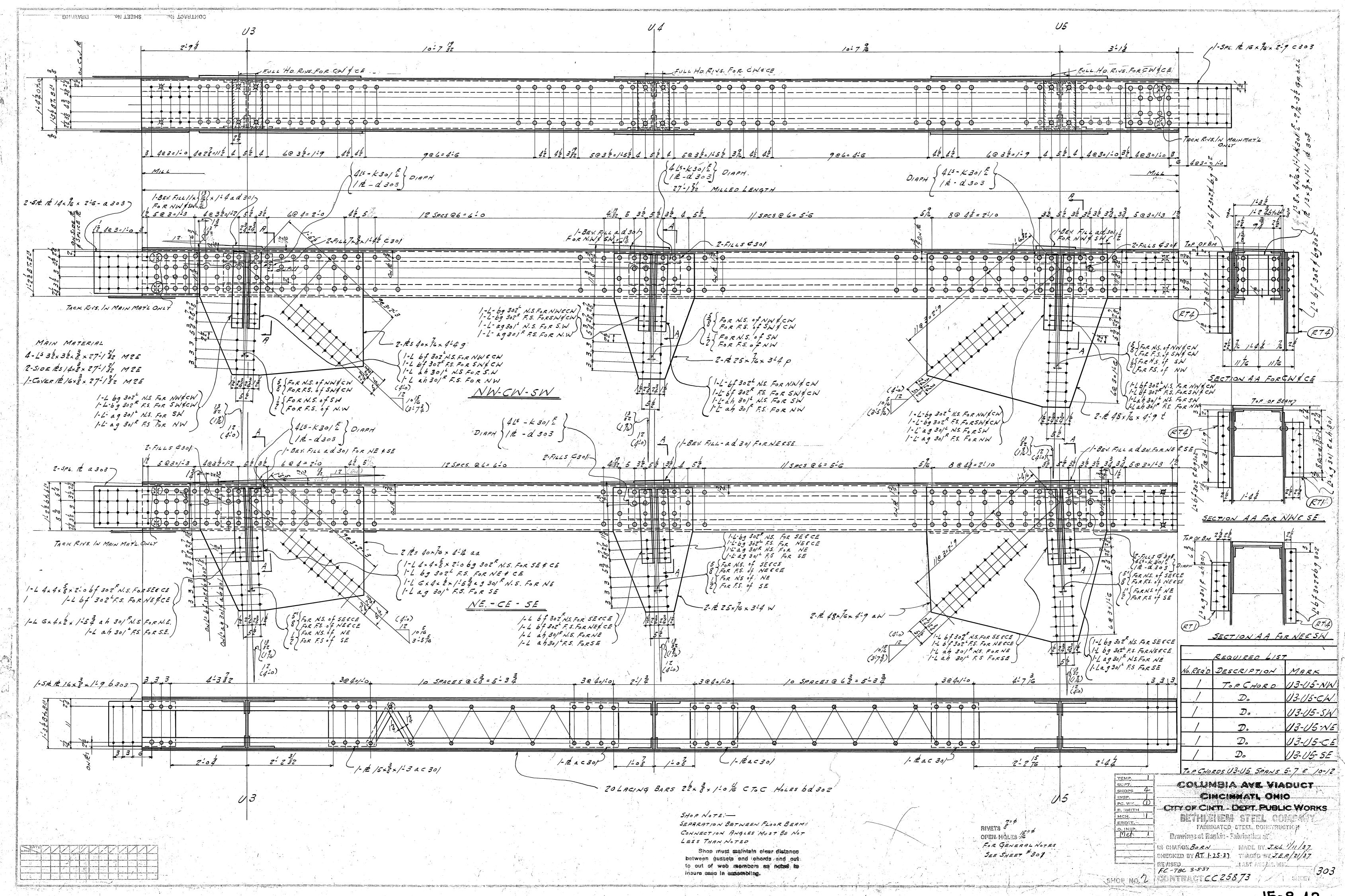


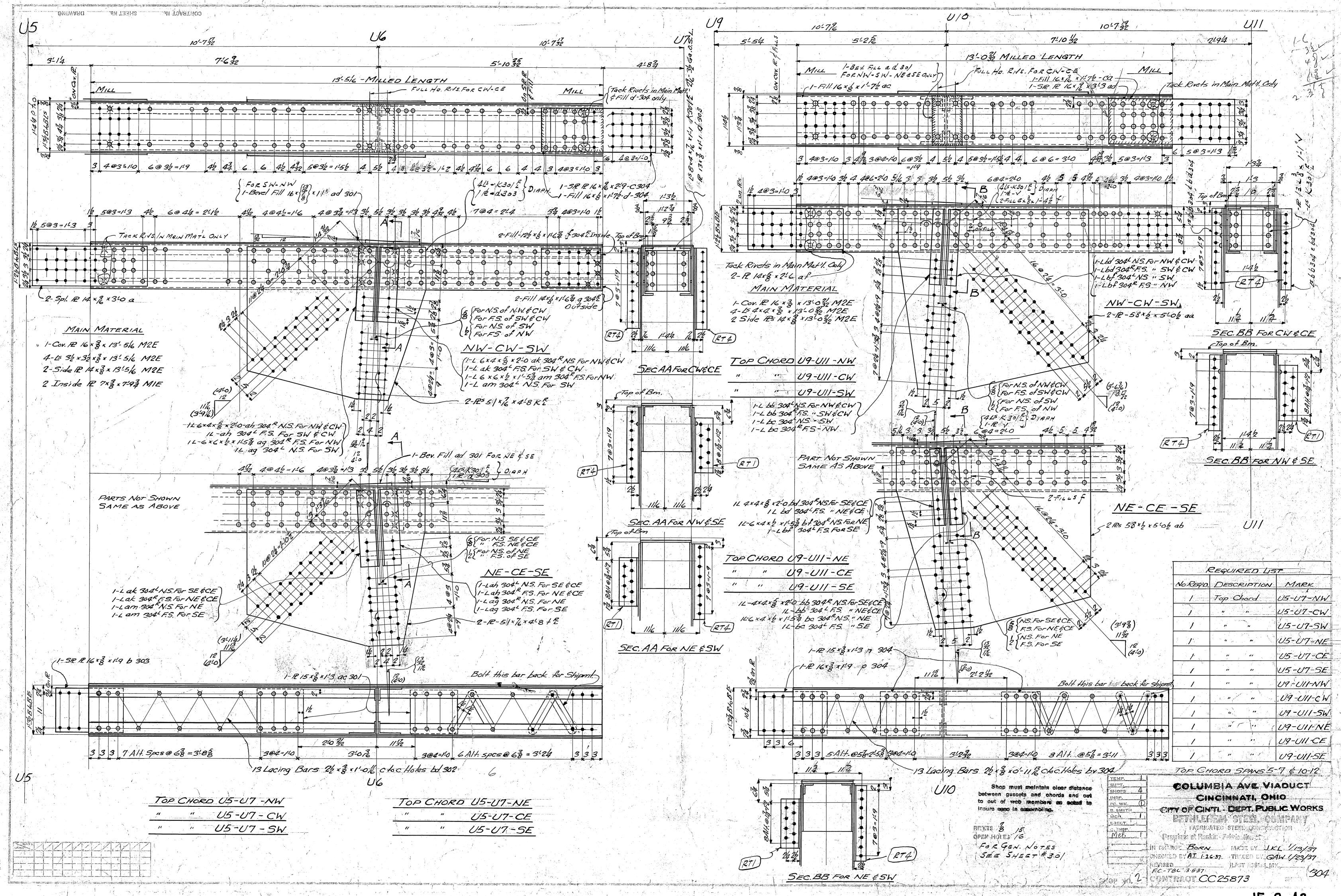


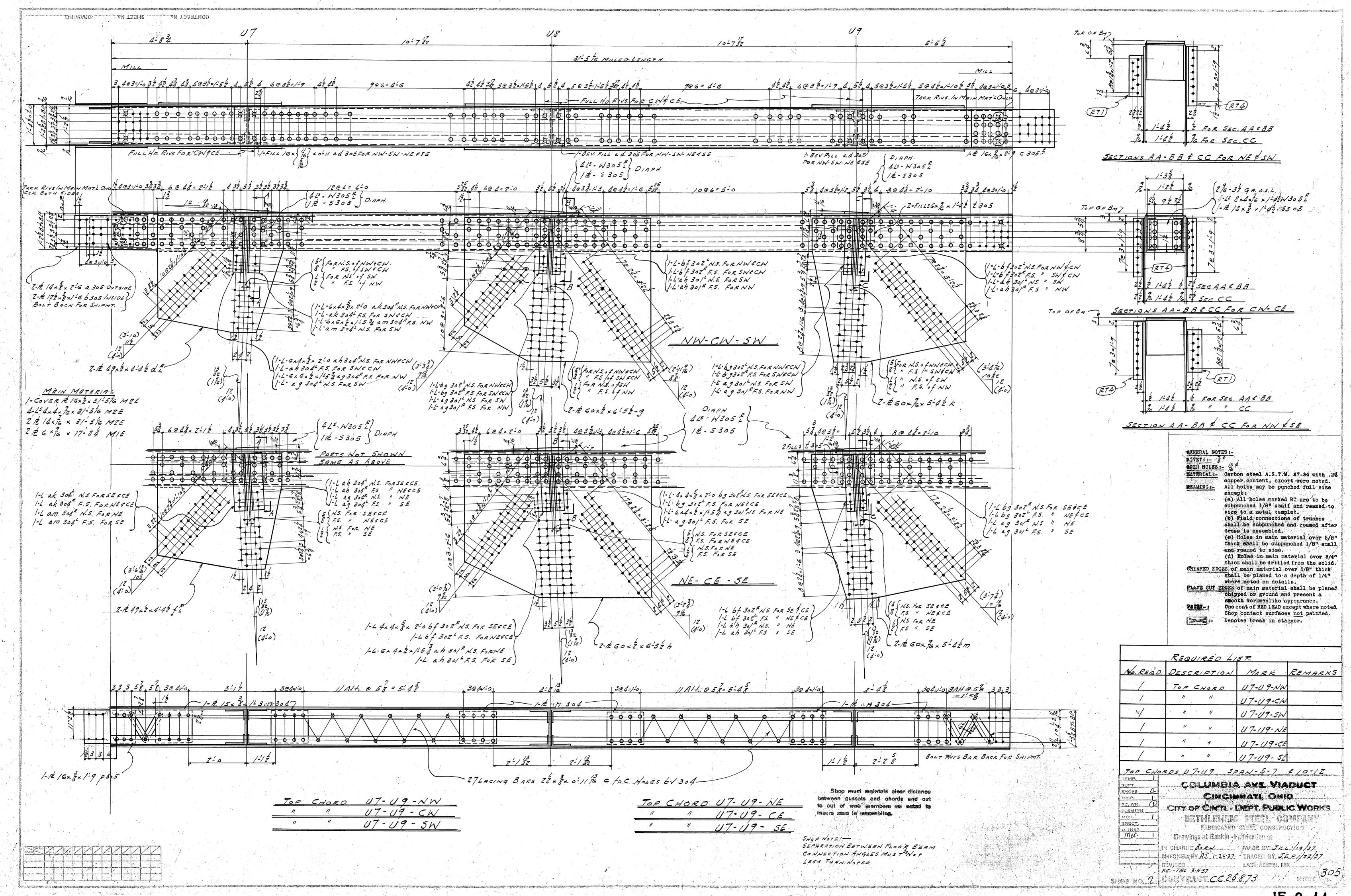




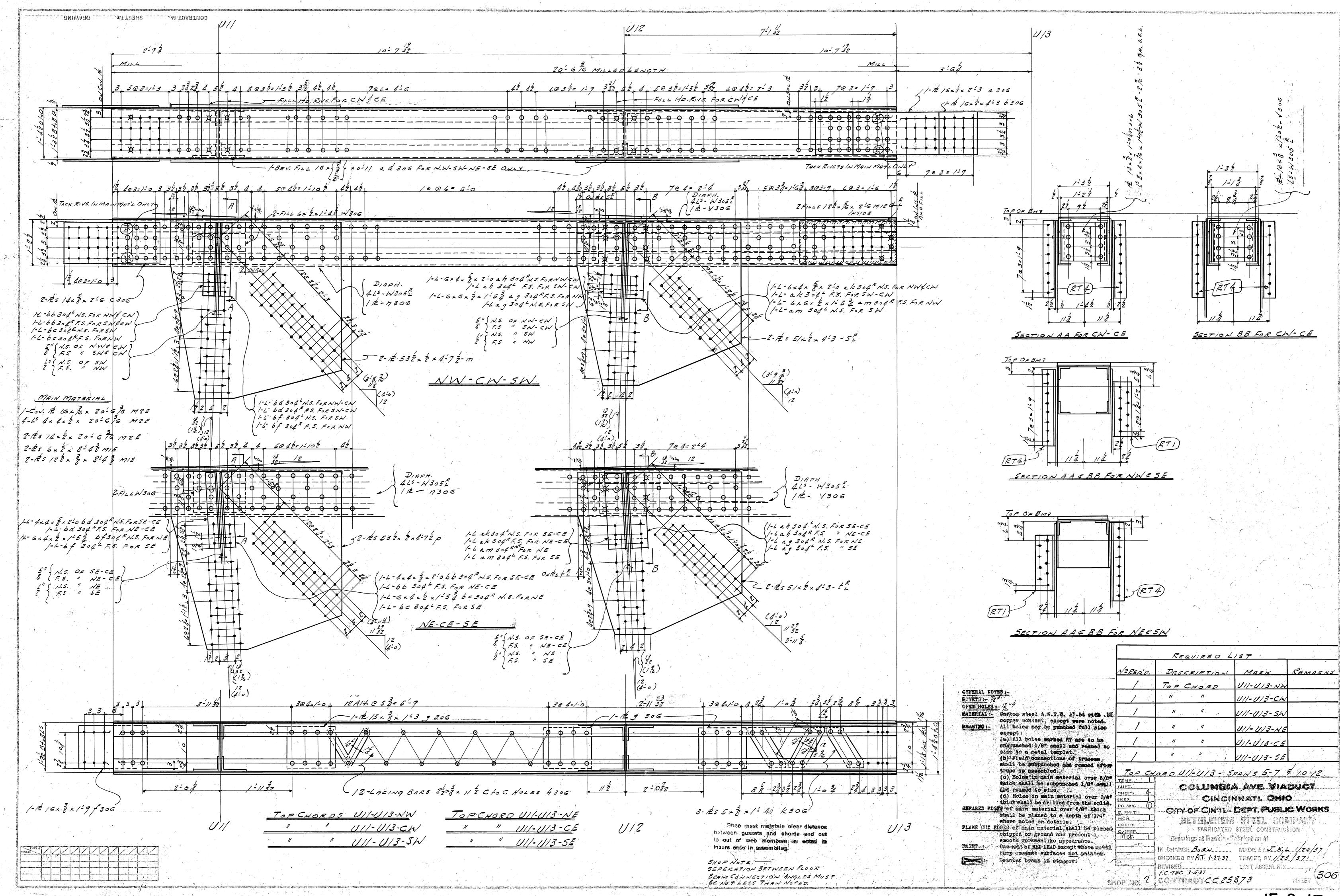


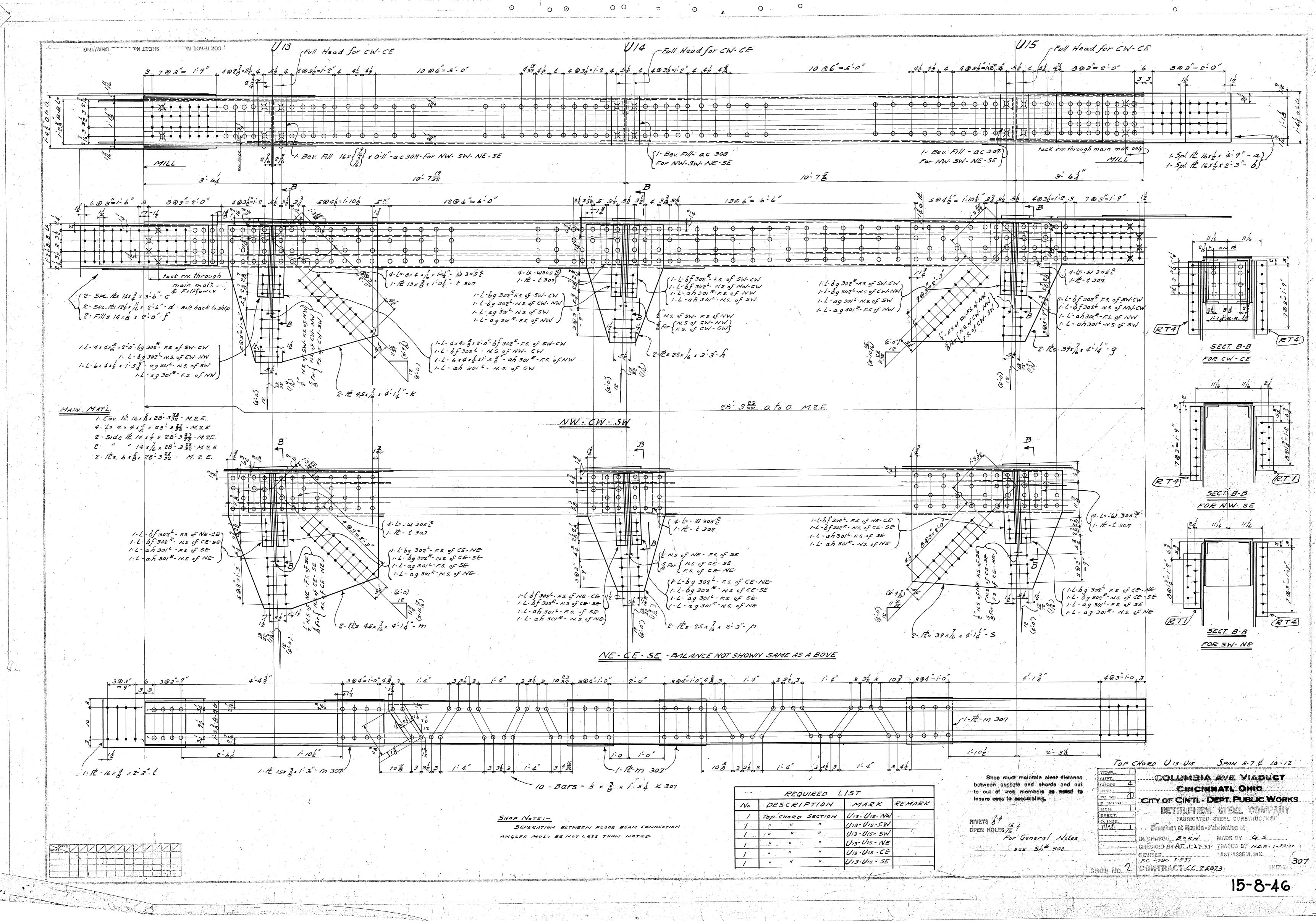


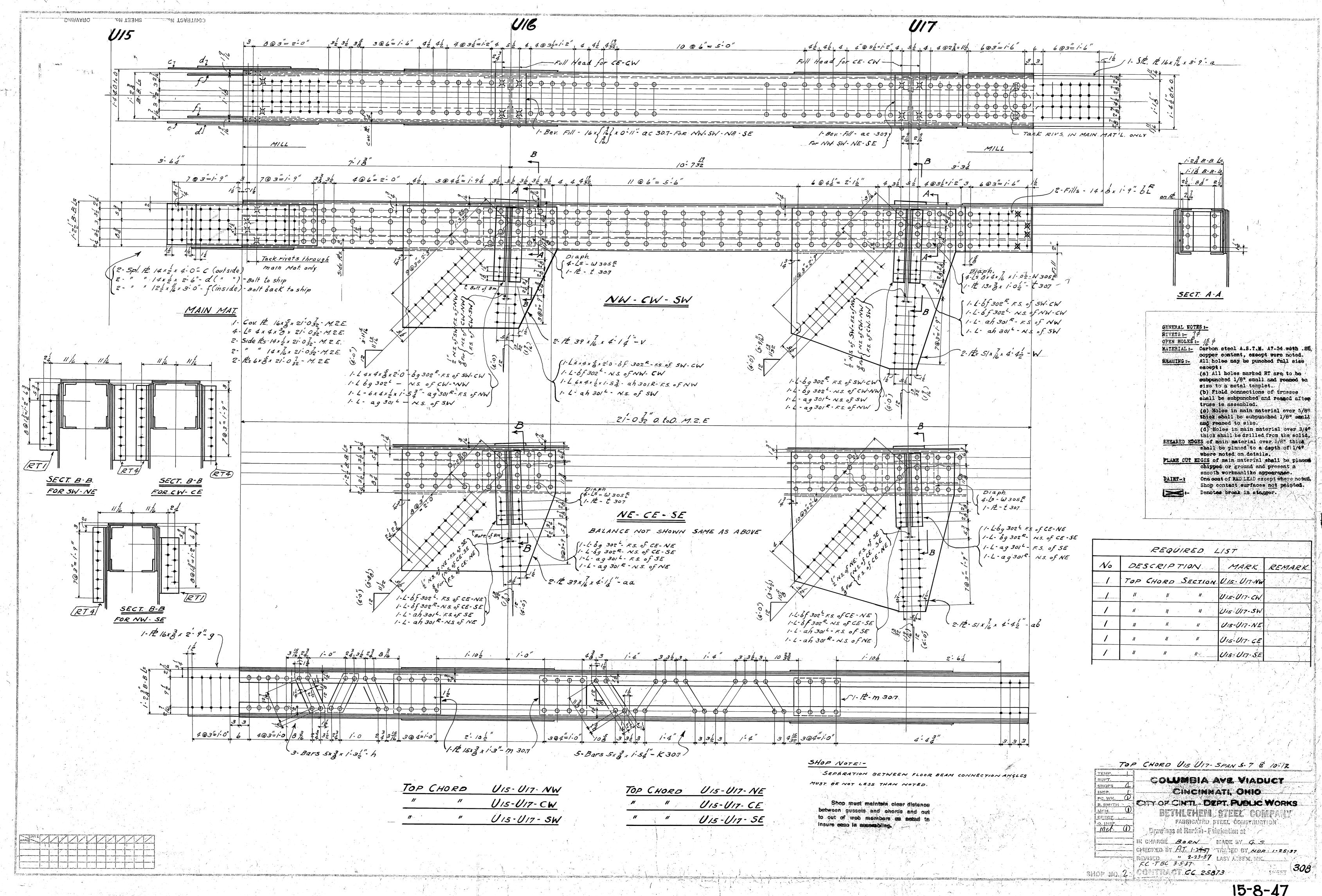


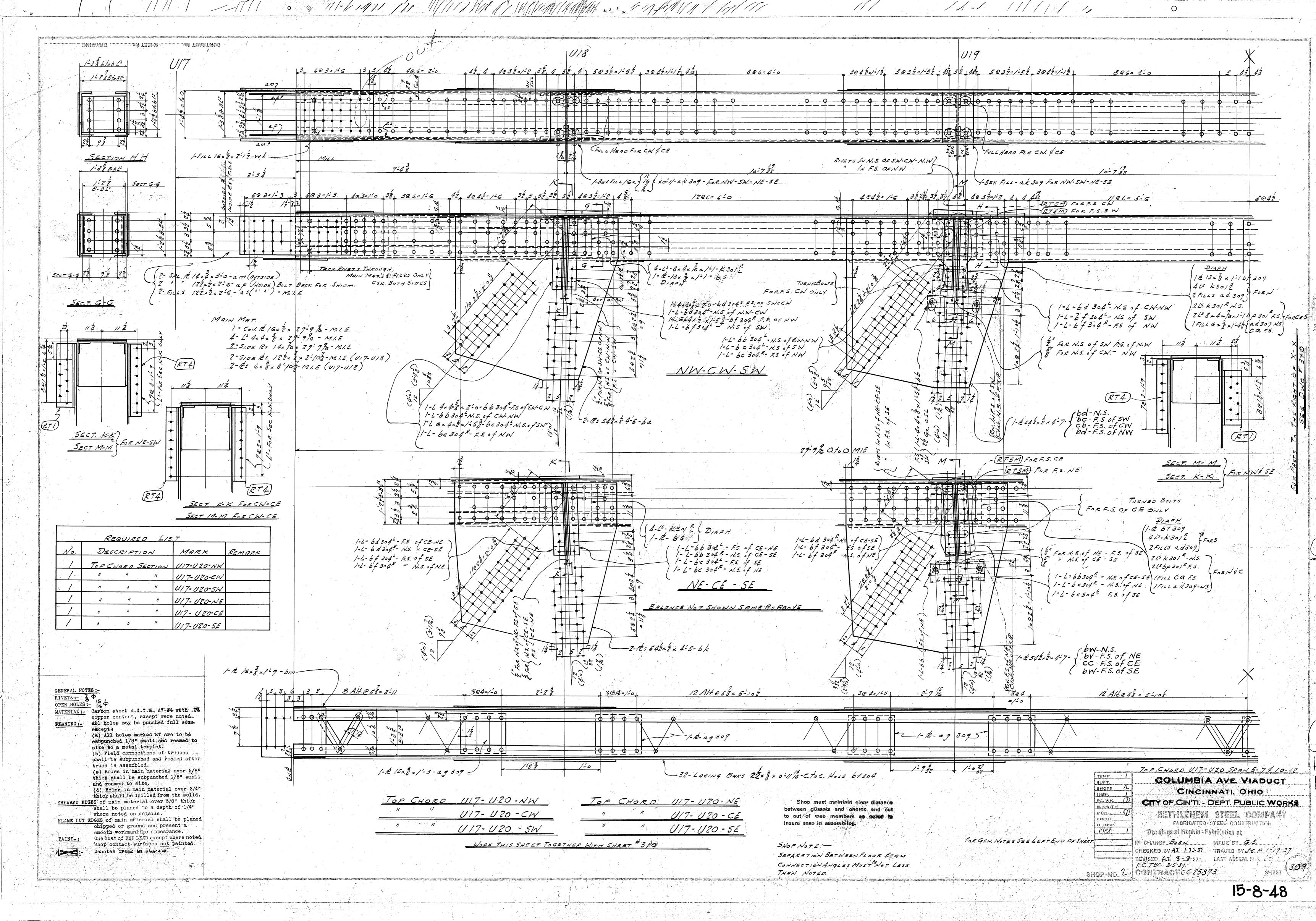


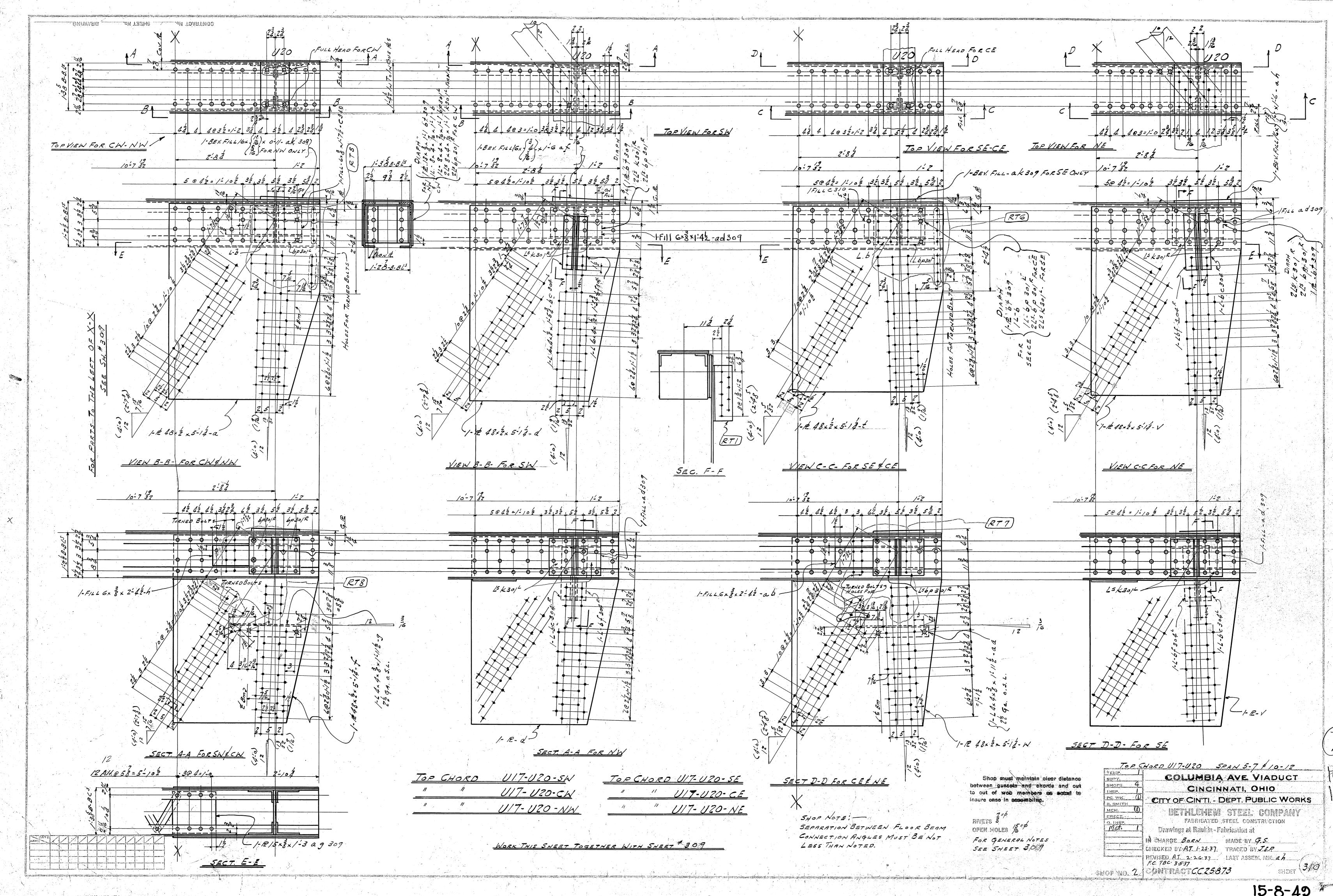
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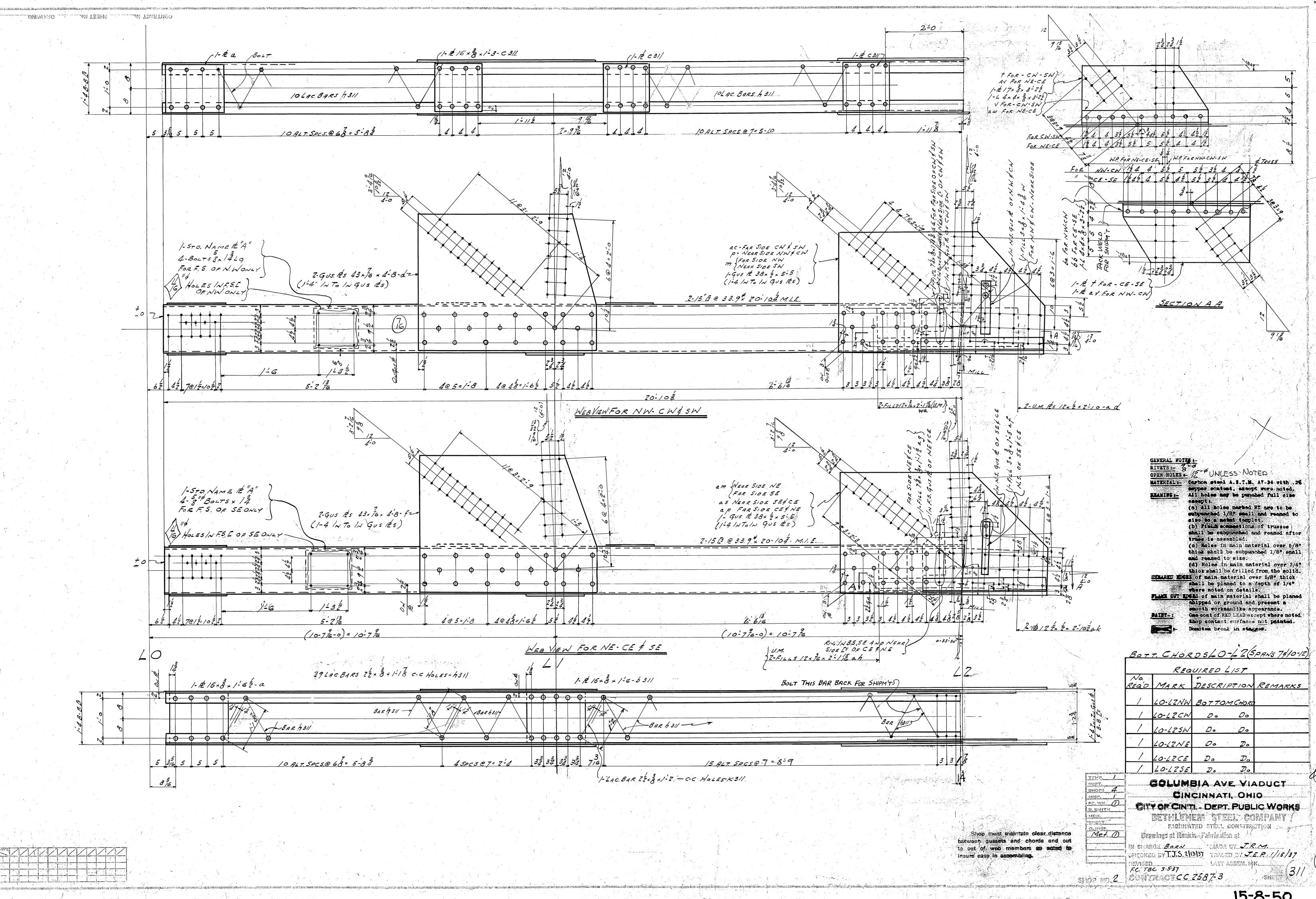


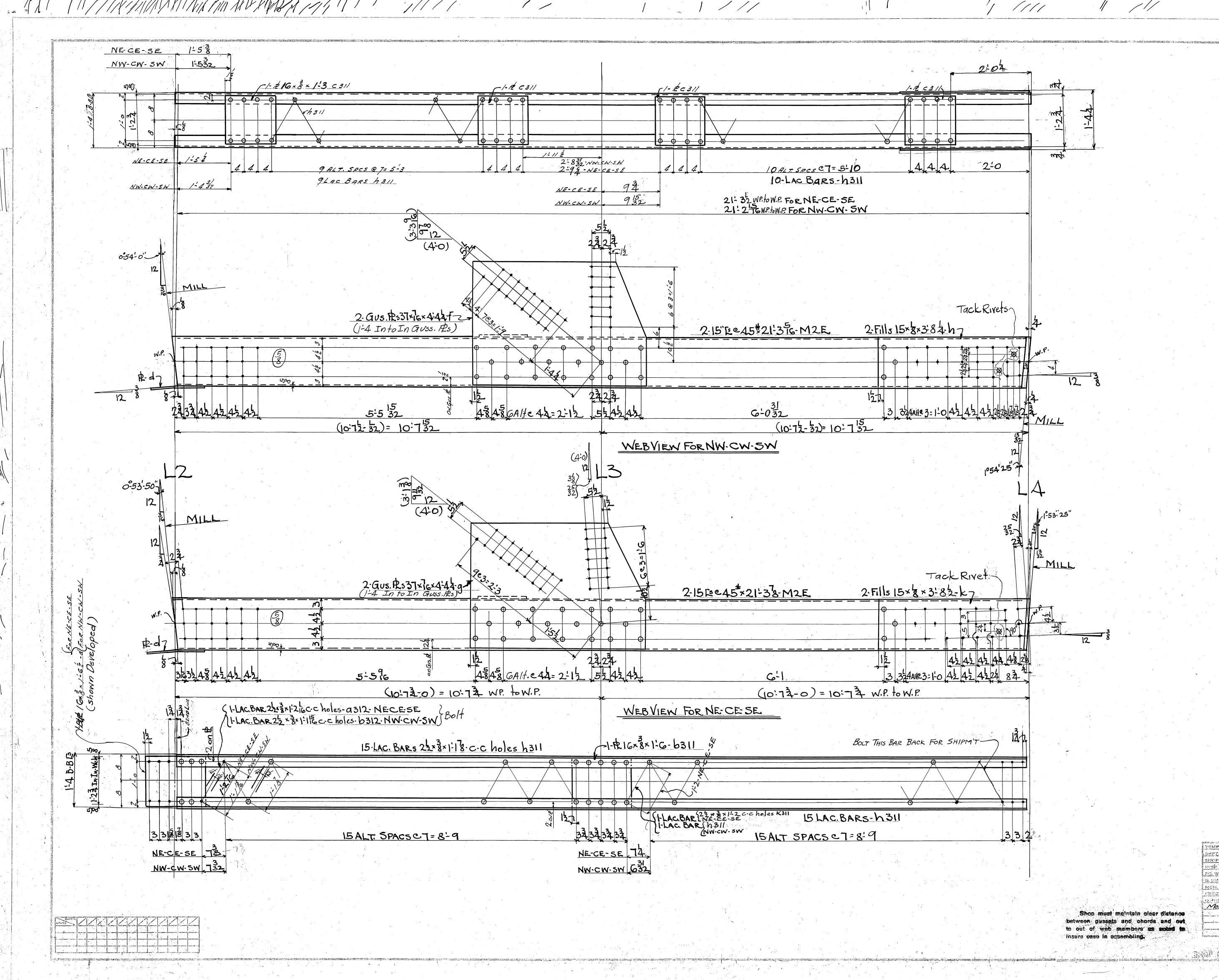












GENERAL NOTES:

RIVETS:- 8"

OPEN HOLES:- 2"

CAPOON Steel A.S.T.M. A7-34 with .2%

ecoper content, except were noted.

REMNING:- All holes may be punched full size

escept:

(a) All holes may be punched full size

escept:

(b) Field sommeotions of trussee

chall be subpunched and reamed after

trues is assembled.

(c) Holes in main material over 5/8"

thick shall be subpunched 1/8" emall

and reamed to size.

(d) Holes in main material over 3/4"

thick shall be drilled from the solid.

EMPARED EDCES of main material over 5/8" thick

shall be planed to a depth of 1/4"

where noted on details.

FLAME CUT EDCES of main material shall be planed

chipped or ground and present a

smooth workmanlike appearance.

PAINT:-: One coat of RED LEAD except where noted.

Shop contact surfaces not painted.

Denotes breek in stagges.

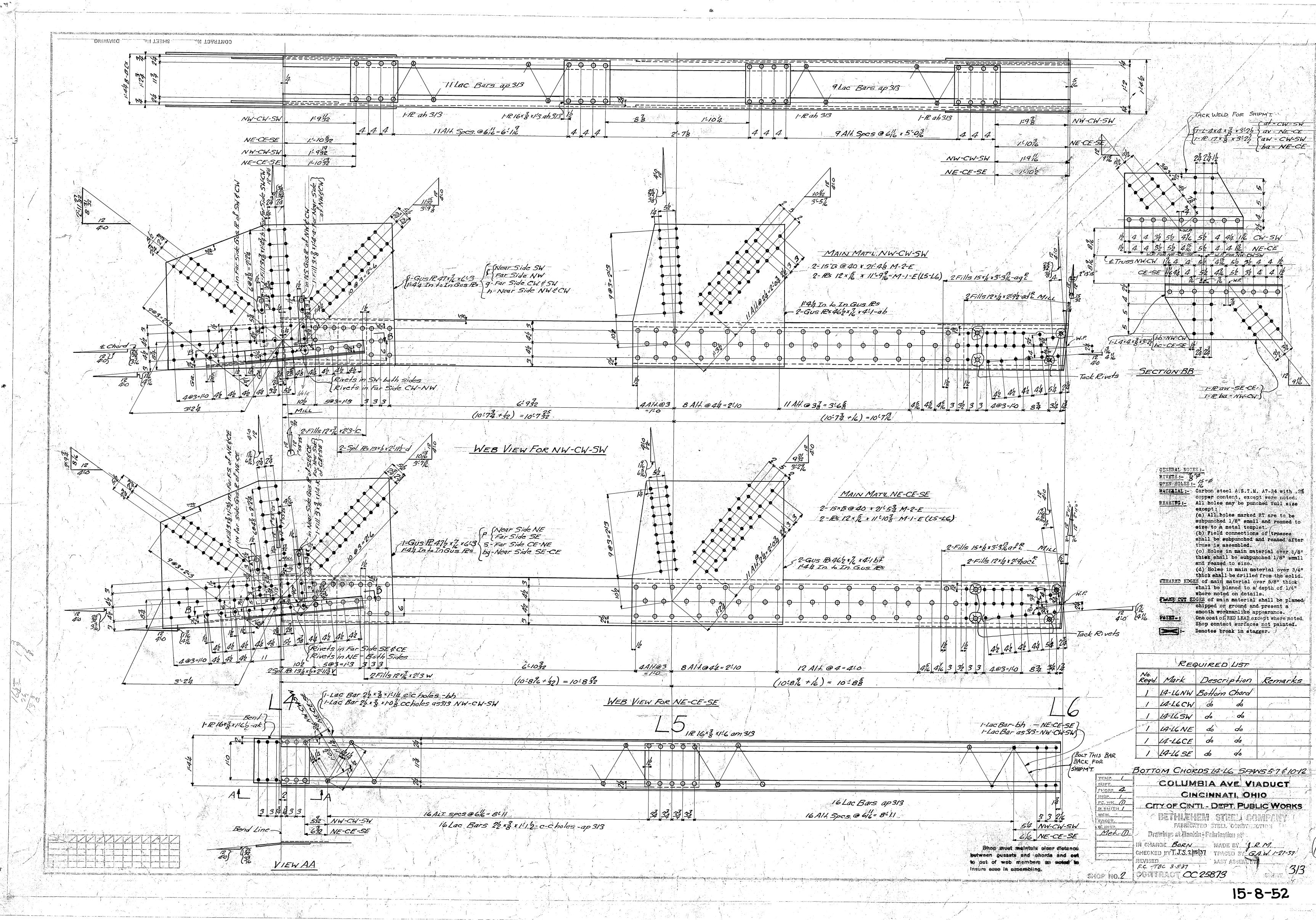
		REQUI	eeo Lis	<del>7</del>	
	No REQ'D.				REMARKS
	/	12-14-NW	BOTTON	1 CHORD	-
	/	12-14CW	D.	$\mathcal{D}_o$	
	/	12-145W	Do	Do	
	· /	12-14 NE	D.	D.	
		12-14 CE	2.	$\mathcal{D}_{\bullet}$	
		17-145E	$\mathcal{D}_{\bullet}$	$\mathcal{D}_{\bullet}$	
·*************************************	807	TOM CHO	RD 12-14	SPANS	E7 \$ 11-12

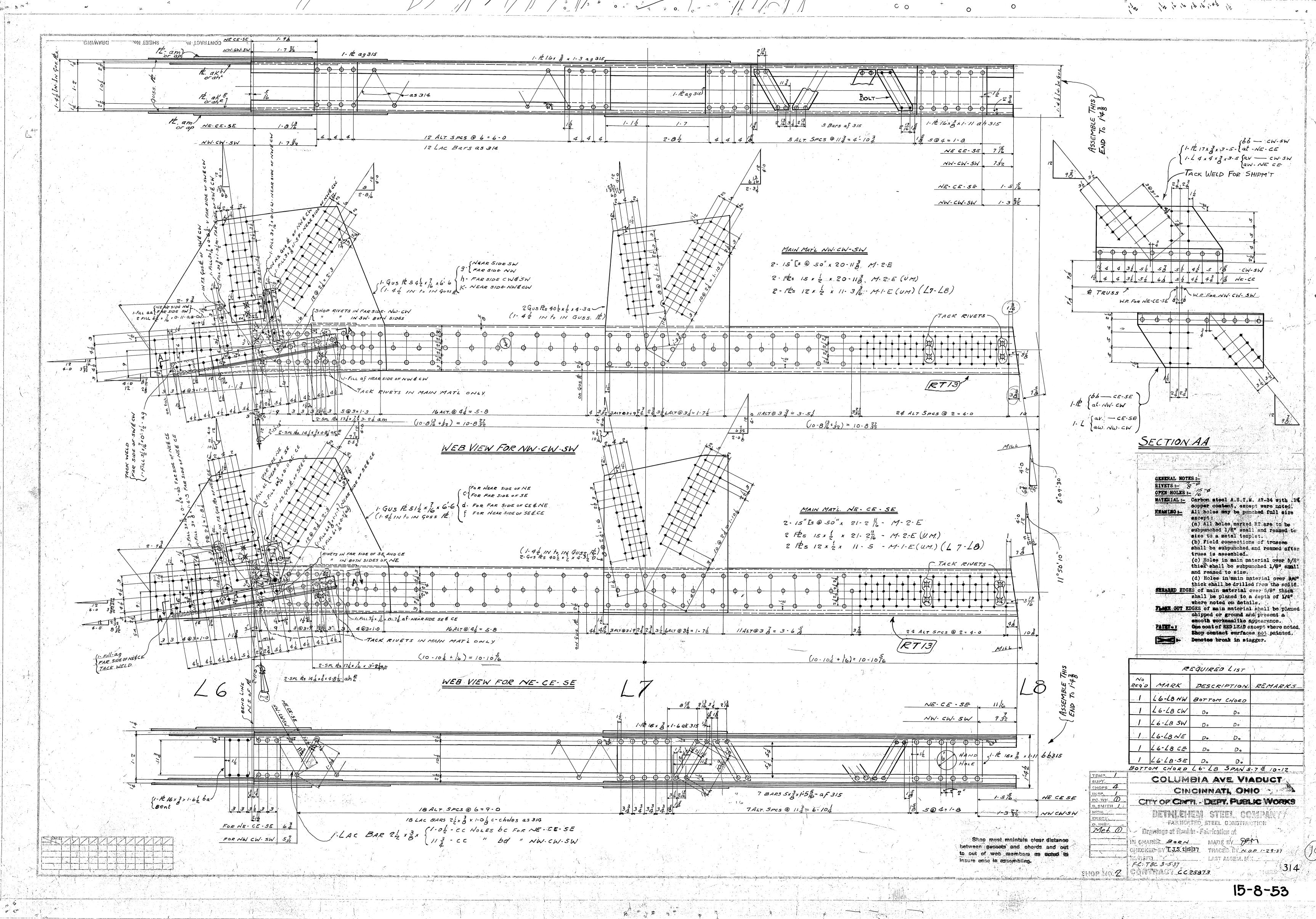
COLUMBIA AVE VIADUCT
CINCINNATI, OHIO

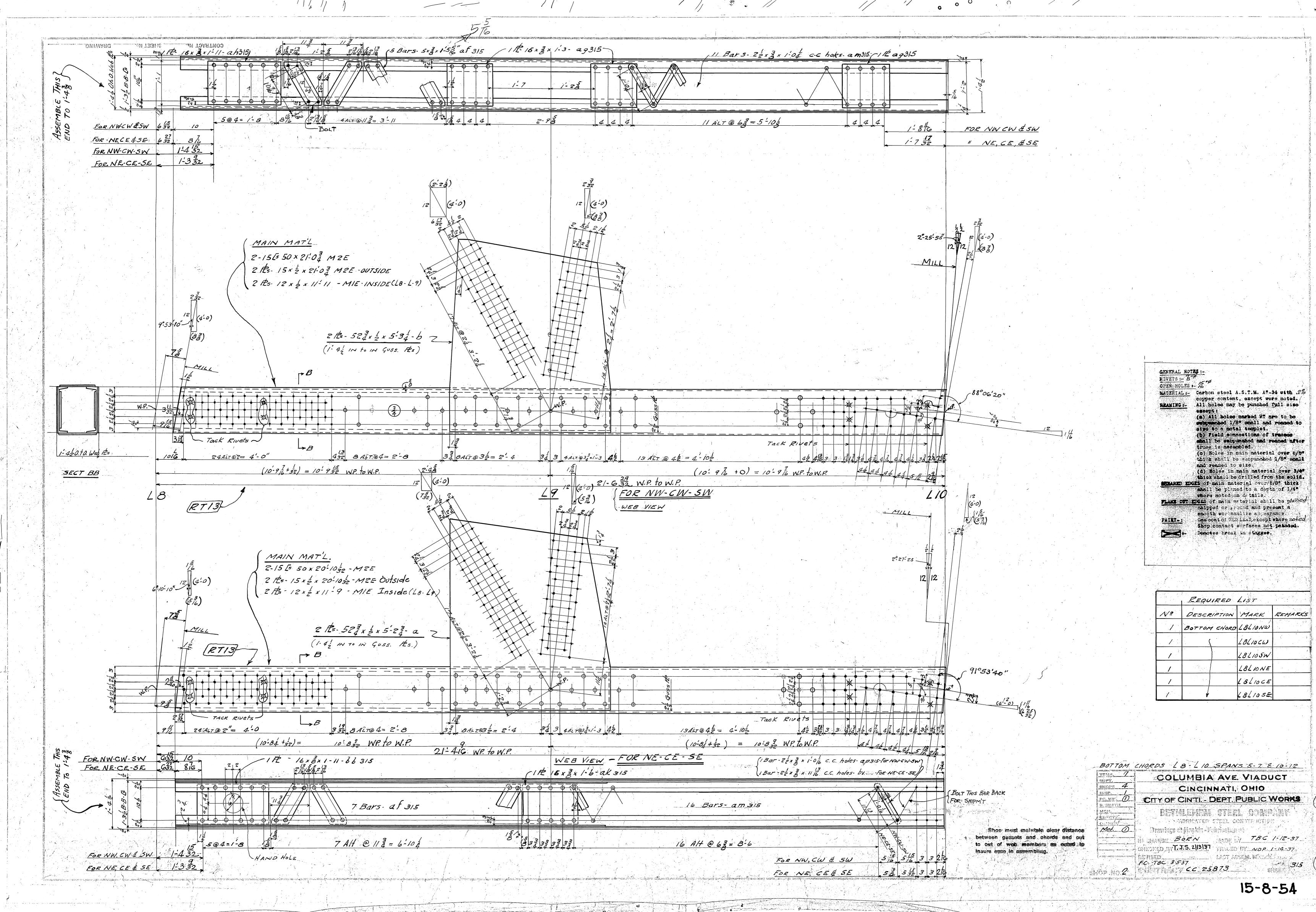
CTY OF CIN'TI. - DEPT. PUBLIC WORKS
DETPLEHEN STEEL CONSTRUCTION

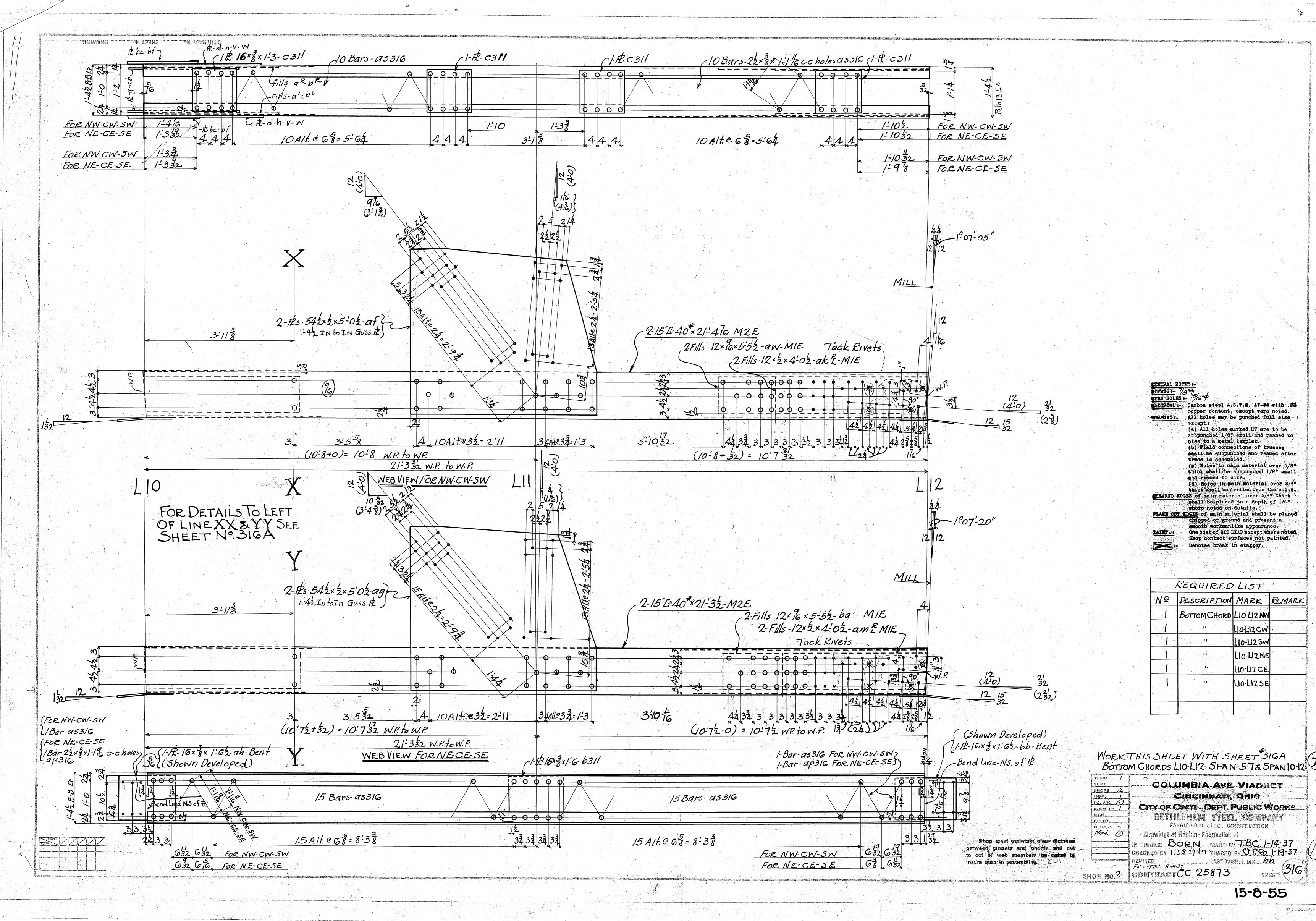
Crawings of Rankin-Pedrication at H Offenge Born Wade by J.R.M. Hecked by T.J.S. 2 isl37 Thaced by C.P.Ro. 1-18-37

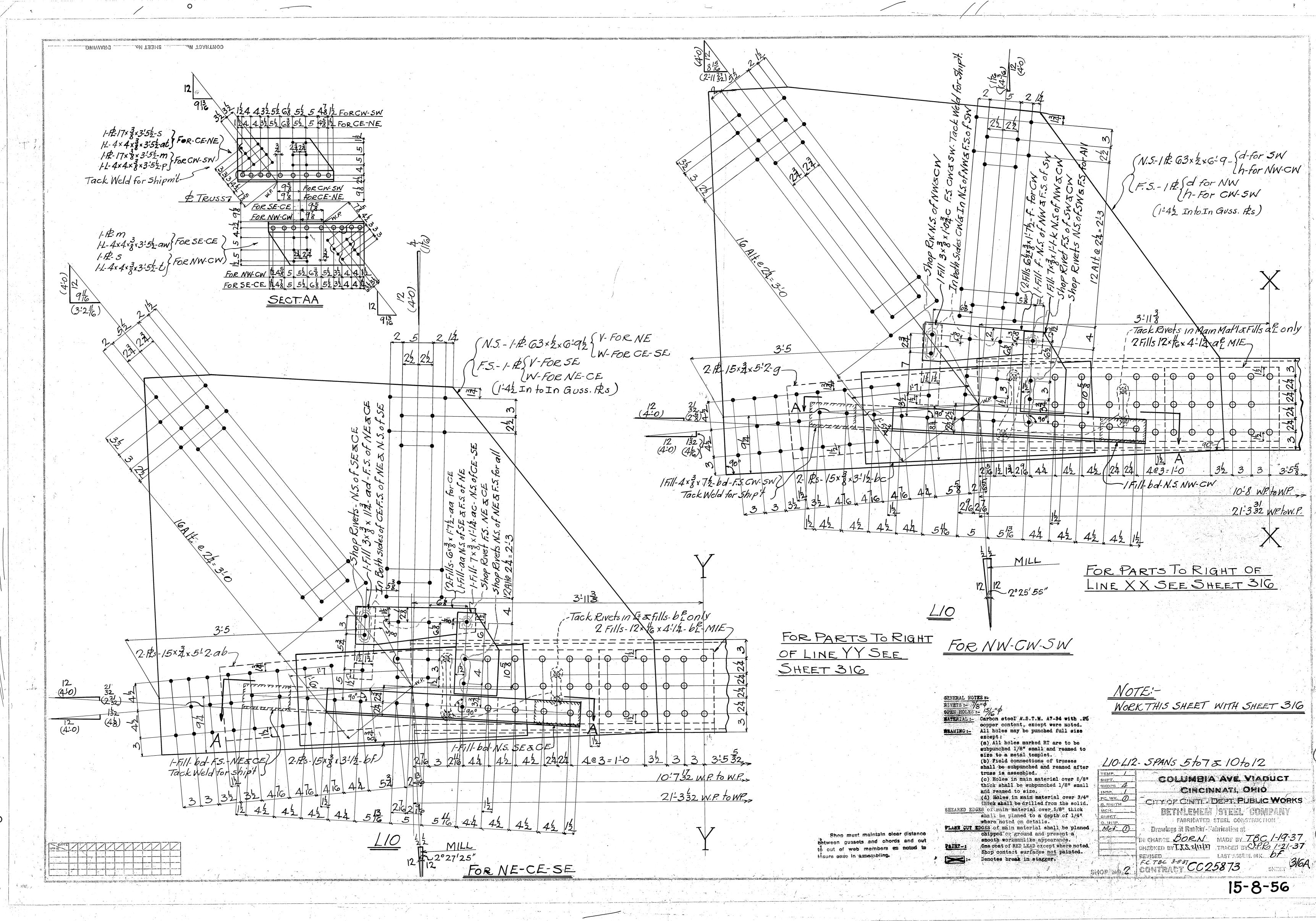
Sec. 78C 3-537
CC25873

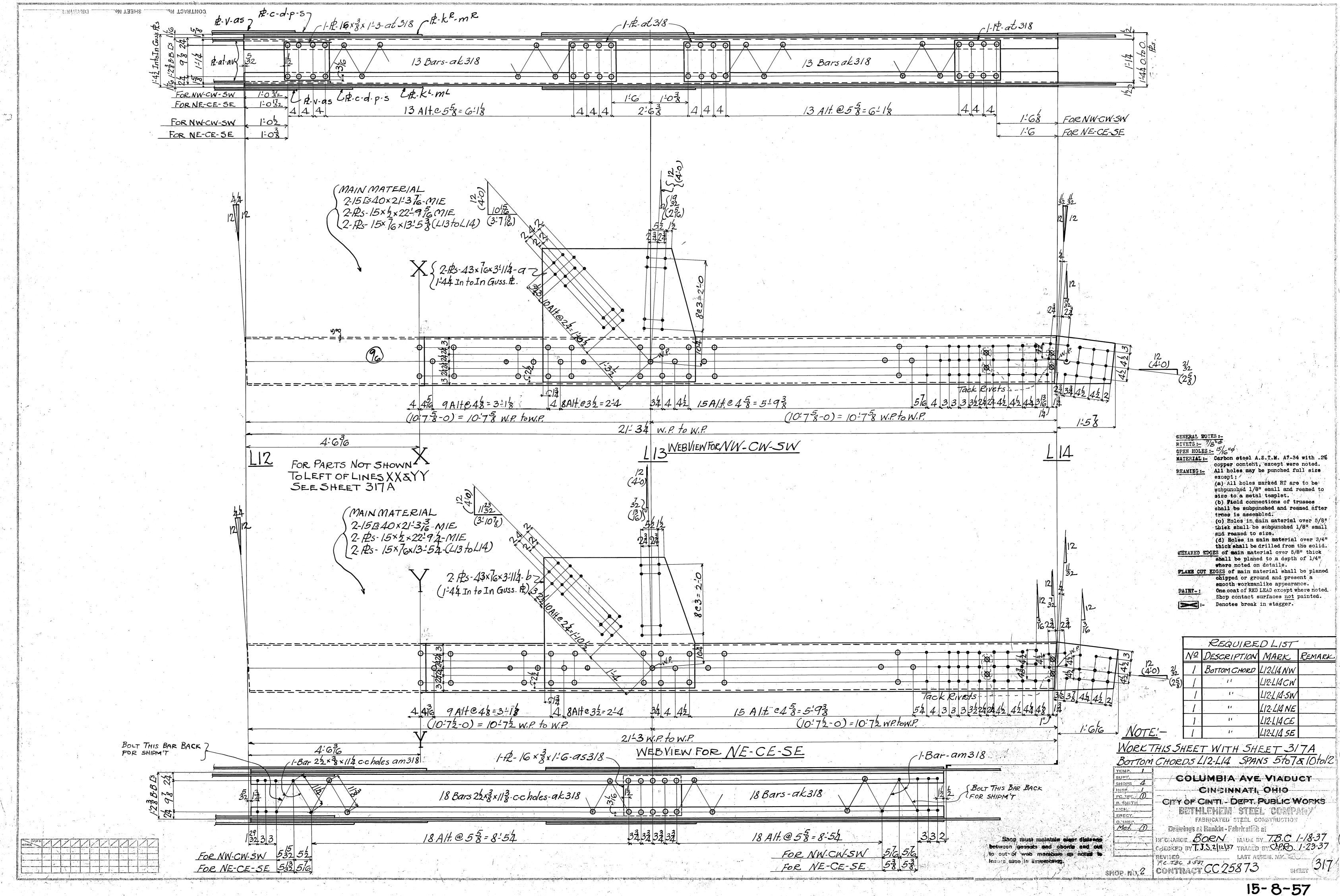


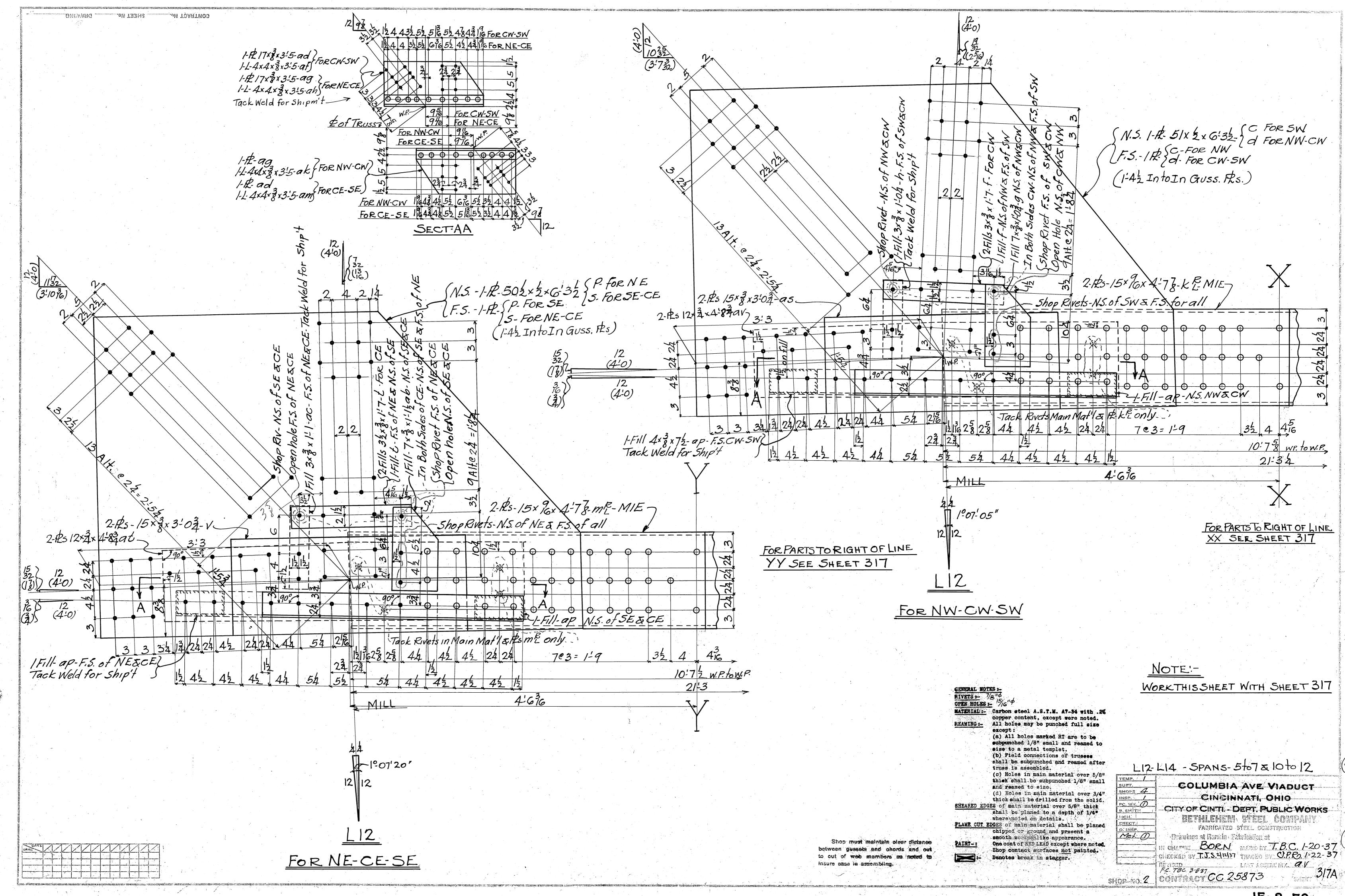


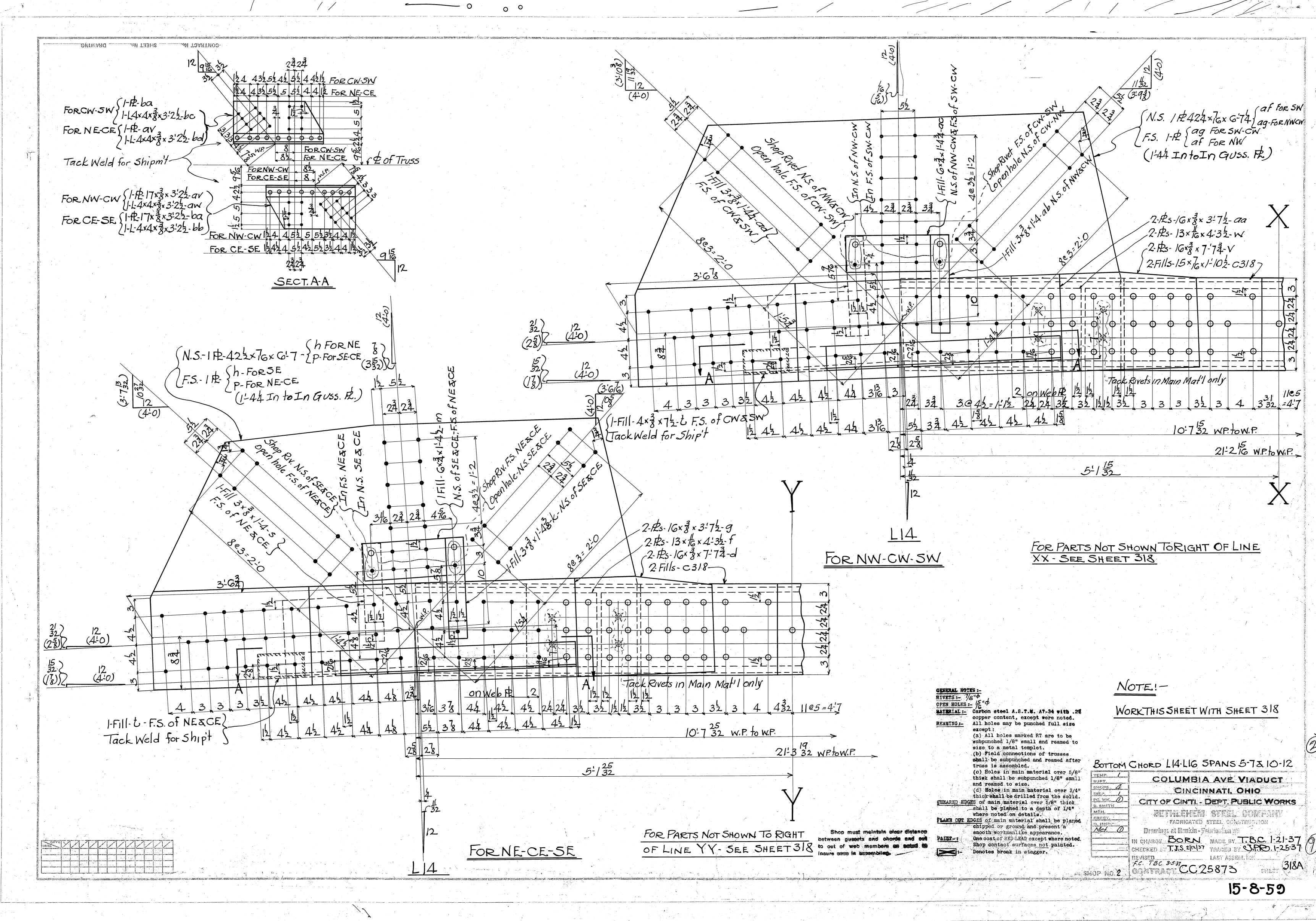


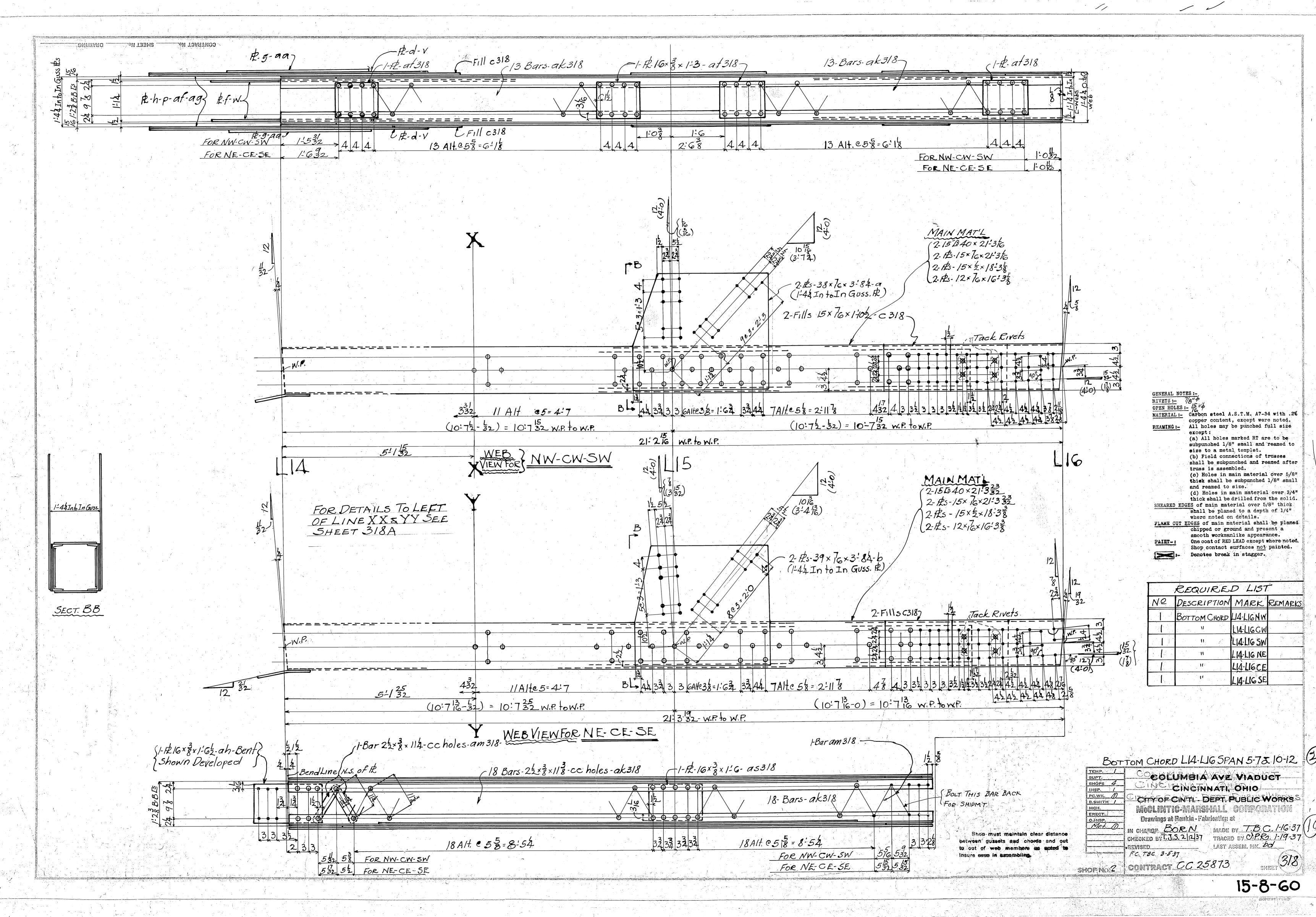


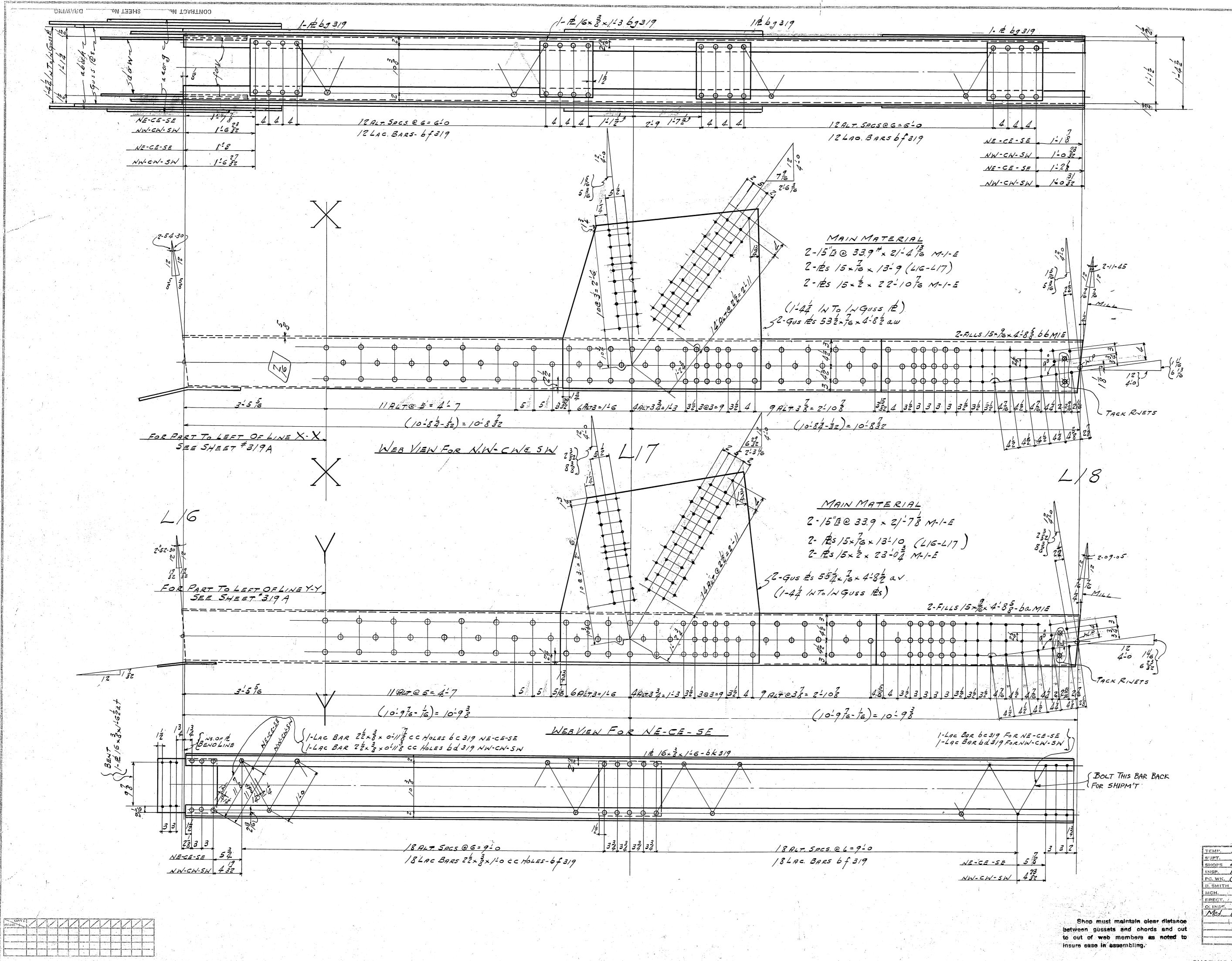












1 11 1=1/11

GENERAL BOTES :BIVETS :- 8"8
OPEN BOLES :- 15" \$ MATERIAL :- Carbon steel A.S.T.W. AV-34 with .2% copper content, except were noted. All holes may be punched full size except:
(a) All holes marked RT are to be subpunched 1/8" small and remed to size to a metal templet. (b) Field connections of trusses shall be subpurched and reamed after truss is assembled. (c) Holes in main material over 5/8" thick shall be subpunched 1/8" small and reamed to size. (d) Holes in main material over 3/4" thick shall be drilled from the solid. shall be planed to a depth of 1/4"
where noted on details.

chipped or ground and precent a smooth workmanlike appearance. One coat of RED LEAD except where noted, Shop contact surfaces not painted.

Denotes break in stagger.

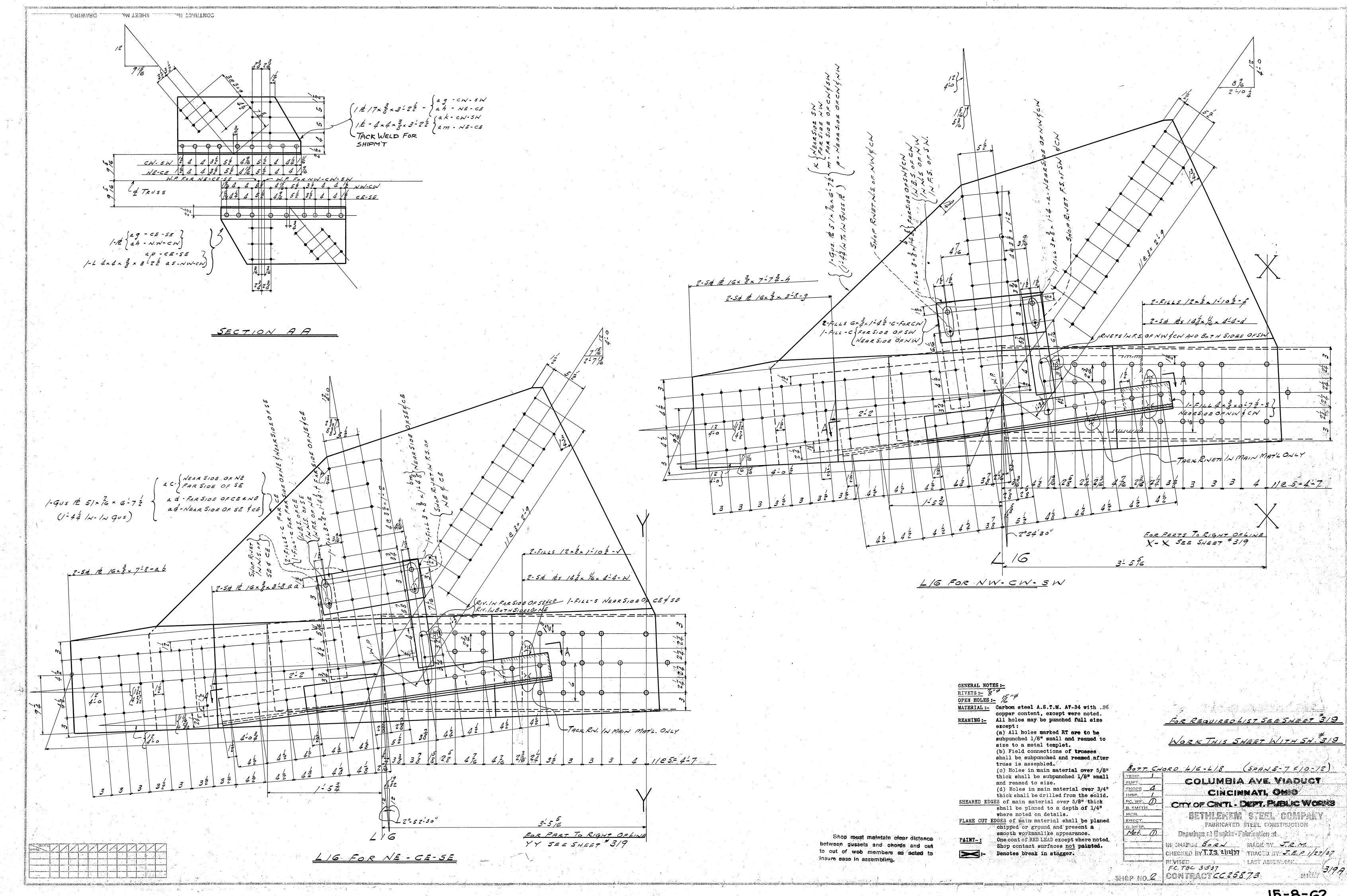
REQUIRED LIST MARK DESCRIPTION REMARKS LIG -LIBNW BOTTOM CHORD 116-418CW Do Do L16-L185W L/6-L/8NE D. Do 116-118CE **D**. D. 416-418-5E D. D.

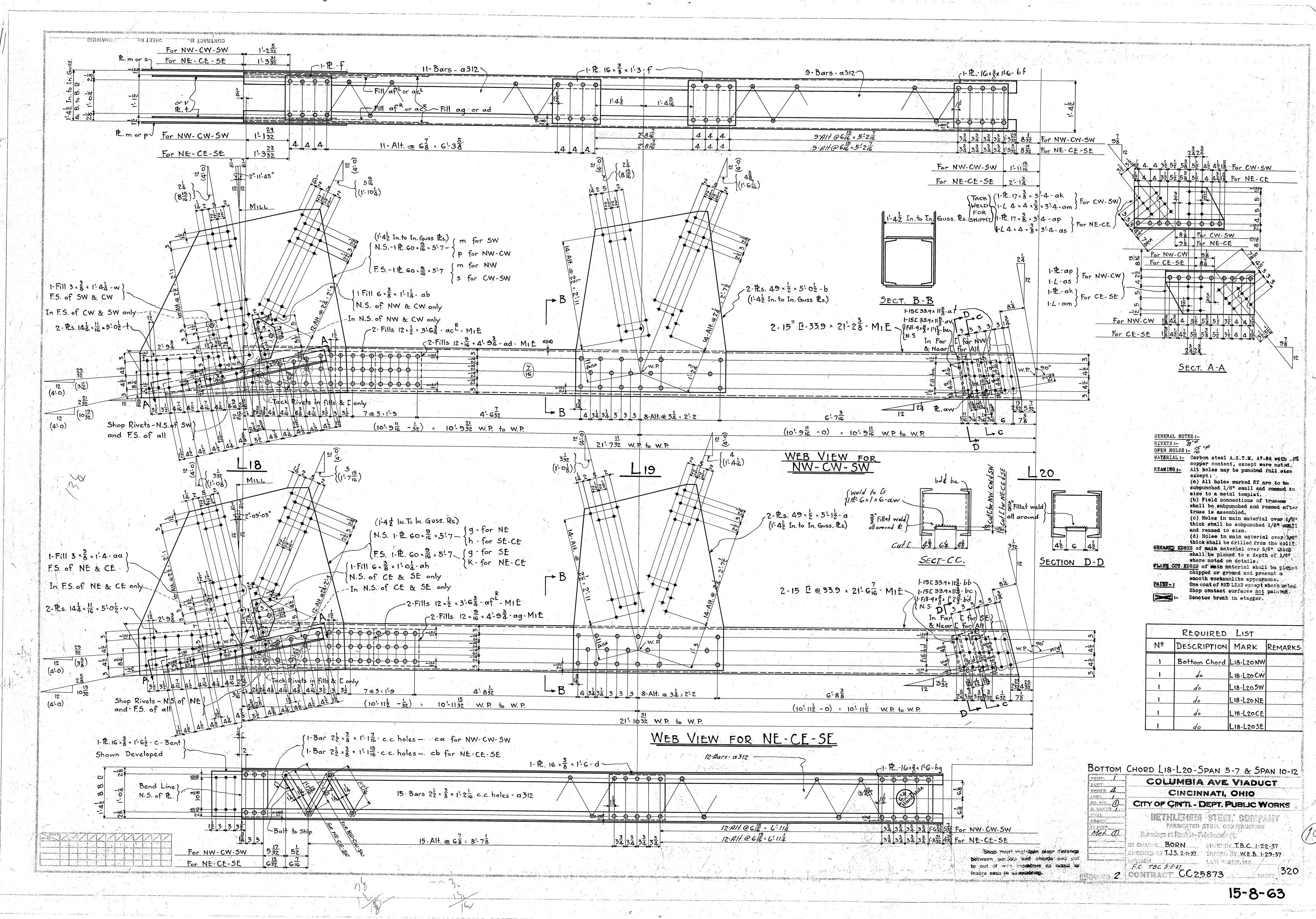
WORK THIS SHEET WITH SHEET #319A

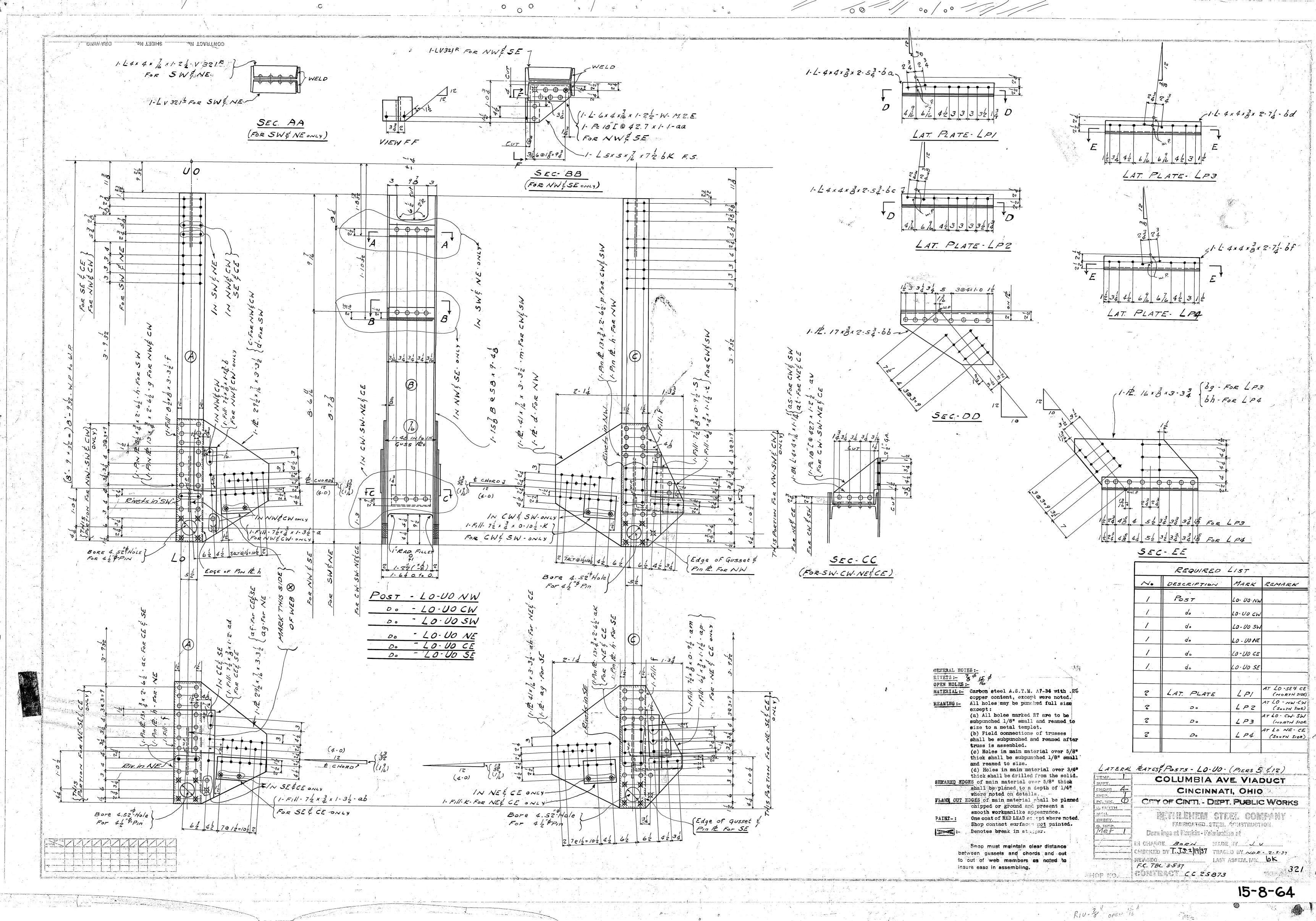
BOTTOM CHORD 616-618 SPAN (5-7) & (10-12) COLUMBIA AVE VIADUCT CINCINNATI, OHIO

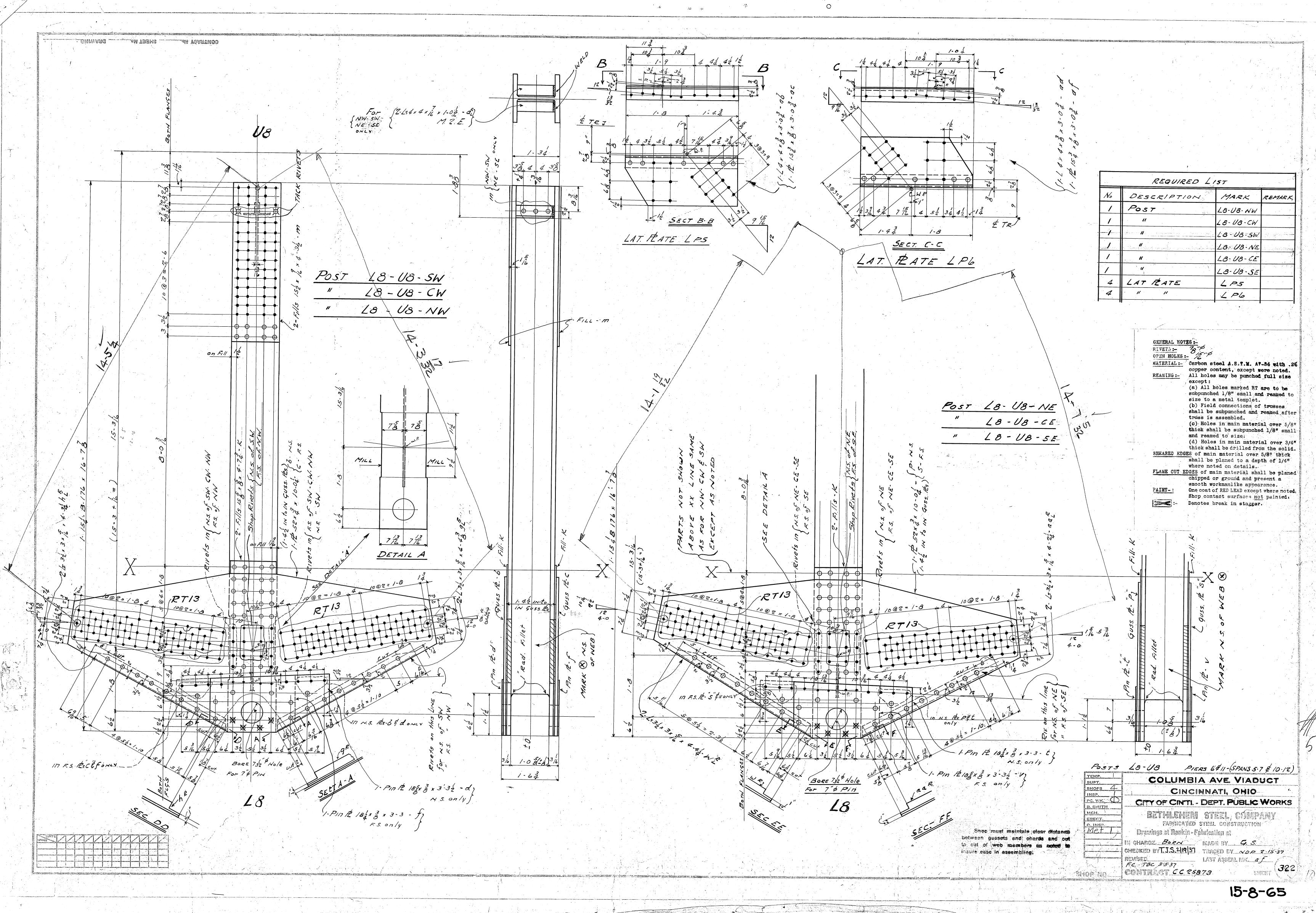
GITY OF CINTI - DEPT. PUBLIC WORKS BETHLEHEN STEEL COMPANY FABRICATED STEEL CONSTRUCTION Drawings at Rankin - Fabrication at

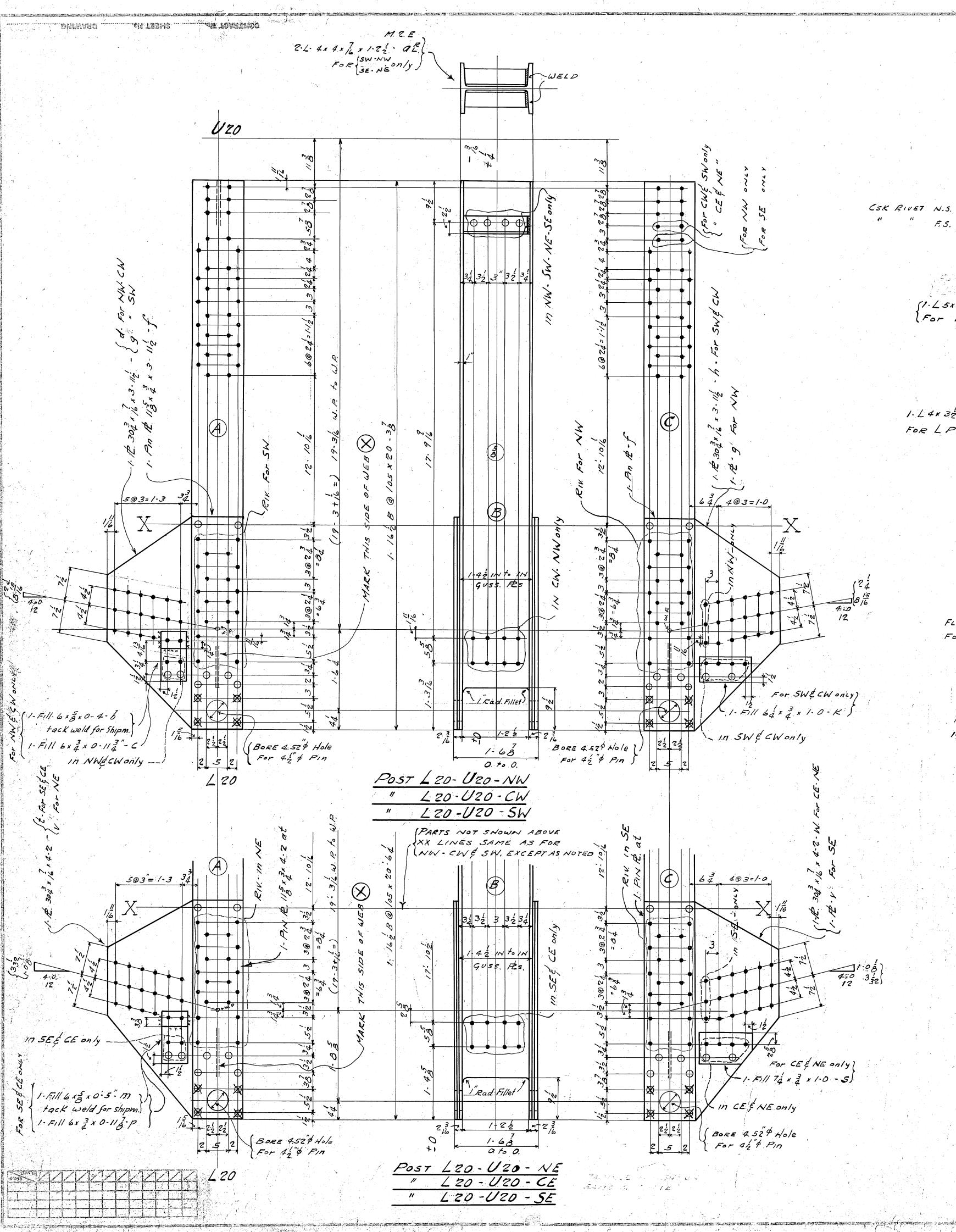
IN CHARGE BORN HADE BY J.R.M. CHECKED BY T.S. 2/12/37 TRACED BY JEP 1/29/37 REVISED
F.C. TBC 3.5.37 SMOF NO 2 | CONTRACT CC25873

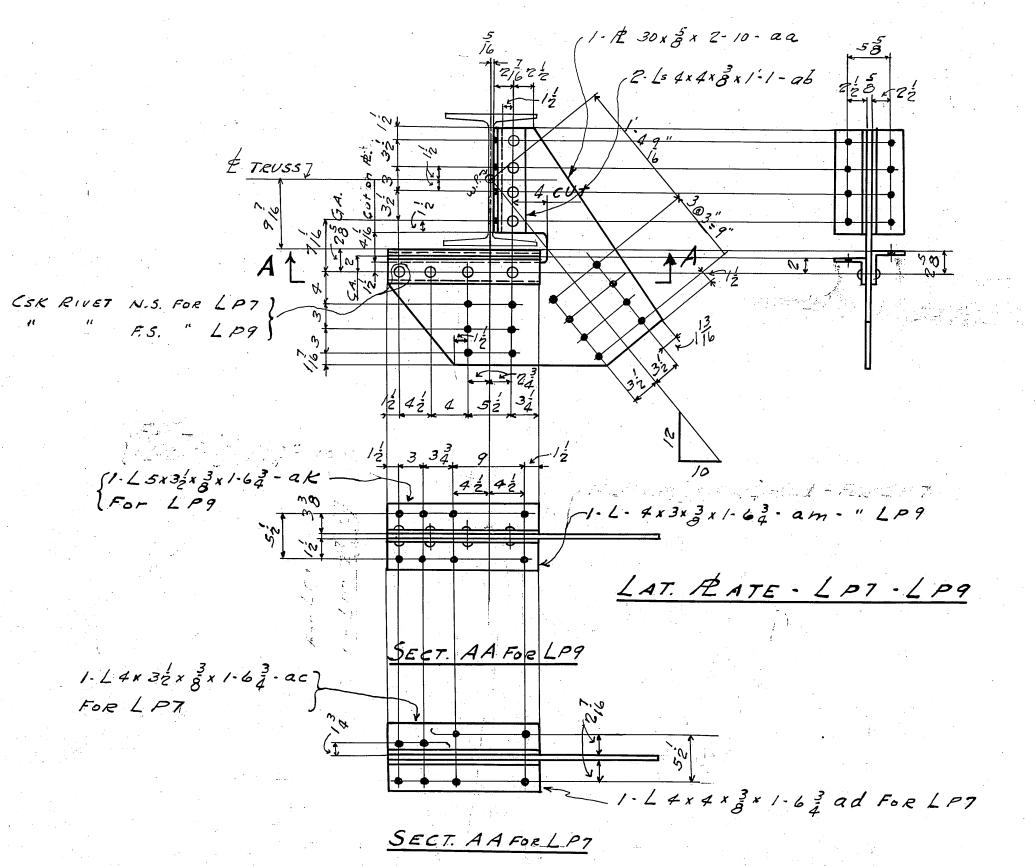




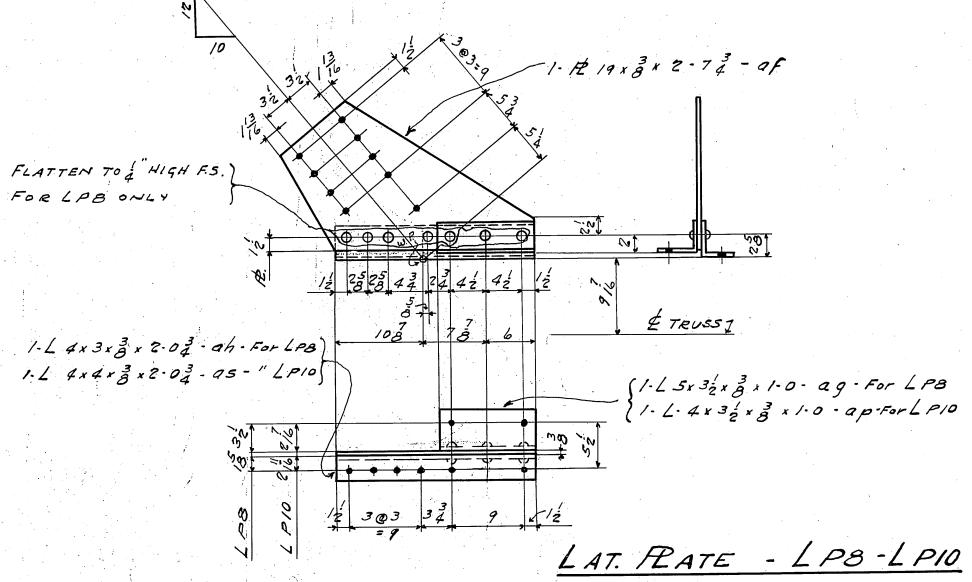








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GENERAL NOTES:RIVETS:OPEN HOLES:Corbon S

MATERIAL:- Carbon steel A.S.T.M. A7-34 with .2% copper content, except were noted.

REAMING:- All holes may be punched full size except:

except:

(a) All holes marked RT are to be subpunched 1/8" small and reamed to size to a metal templet.

(b) Field connections of trusses shall be subpunched and reamed after truss is assembled.

(c) Holes in main material over 5/8" thick shall be subpunched 1/8" small and reamed to size.

(d) Holes in main material over 3/4"
thick shall be drilled from the solid.

SHEARED EDGES of main material over 5/8" thick
shall be planed to a depth of 1/4"
where noted on details.

FLANE CUT EDGES of main material shall be planed

chipped or ground and present a smooth worksanlike appearance.

PAINT: One coat of RED LEAD except where noted.

Shop contact surfaces not painted.

Panotes break in stagger.

Smoo must maintain clear distance thetween gussets and chords and of the cut of web members as noted to the ease in assembling.

REQUIRED LIST				
No	DESCRIPTION	MARK	REMARK	
/	Post	Lzo - Uzo-NW		
/	"	L20-U20-CW		
/	<i>u</i>	120- UZO - SW		
1	<i>"</i>	120-U20-NE		
	"	L20- U20-CE	j.	
/	<i>II</i>	120-U20-SE		
2	LAT. PEATE	LP7	AT LZO PIERT	
2	<i>II</i>	L P8	ATLZO PIER. 7 CW & SW	
2	N 11	LP9	SE É CE PIER 10	
2	" "	LP10	AT LZO PIER 10 CE É NE	
	l e e e e e e e e e e e e e e e e e e e	1 .	•	

POSTS LZO- UZO PIERS 7\$ 10 (SPANS-5-18/0-/Z)

COLUMBIA AVE VIADUCT

SHOPS 4 CINCINNATI, OHIO

PG. WK 0 CITY OF CINTI - DEPT. PUBLIC WORKS

R. SMITH

MCH. BETILIZEEM STEEL CONSTRUYED

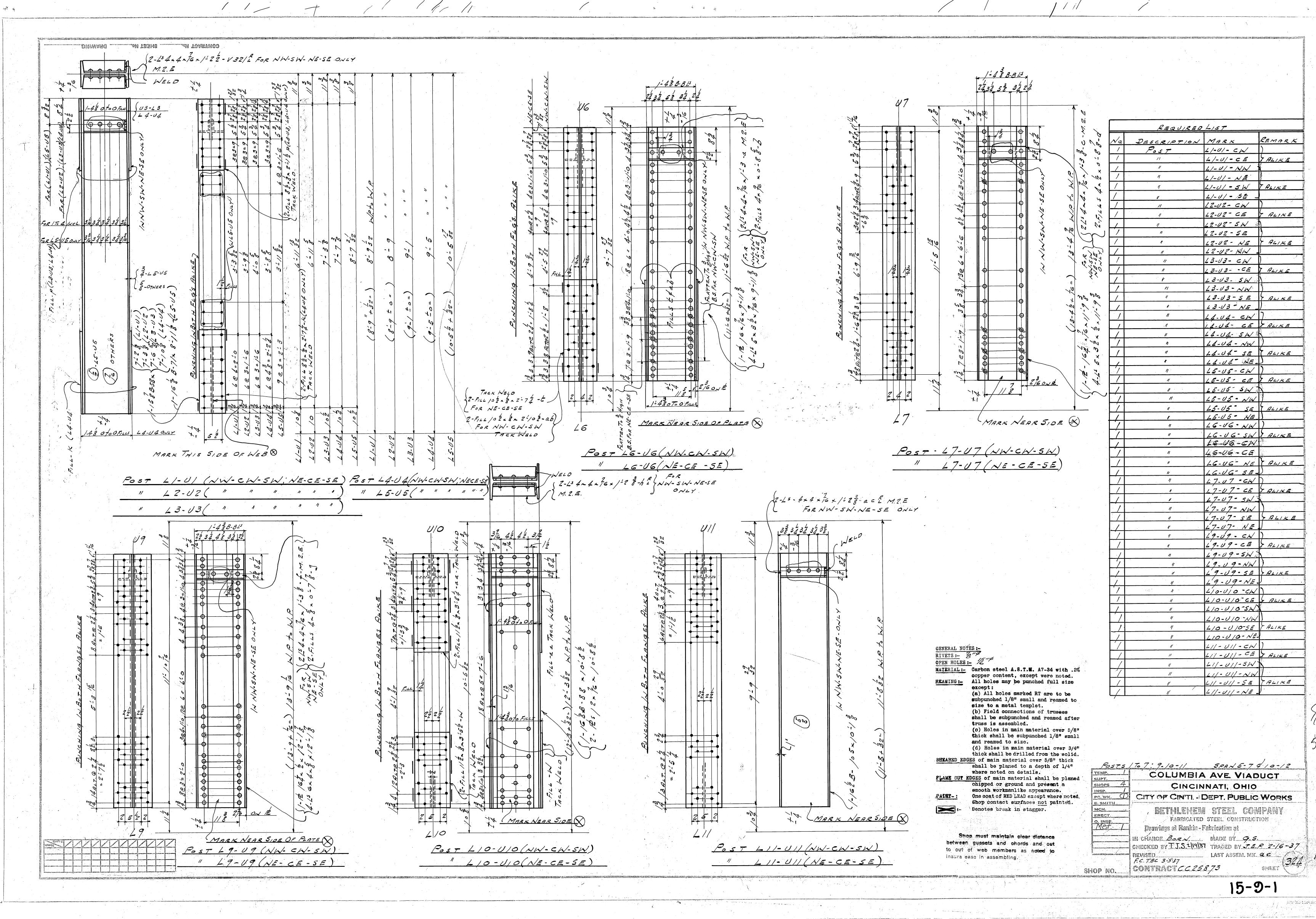
COLUMBIA AVE VIADUCT

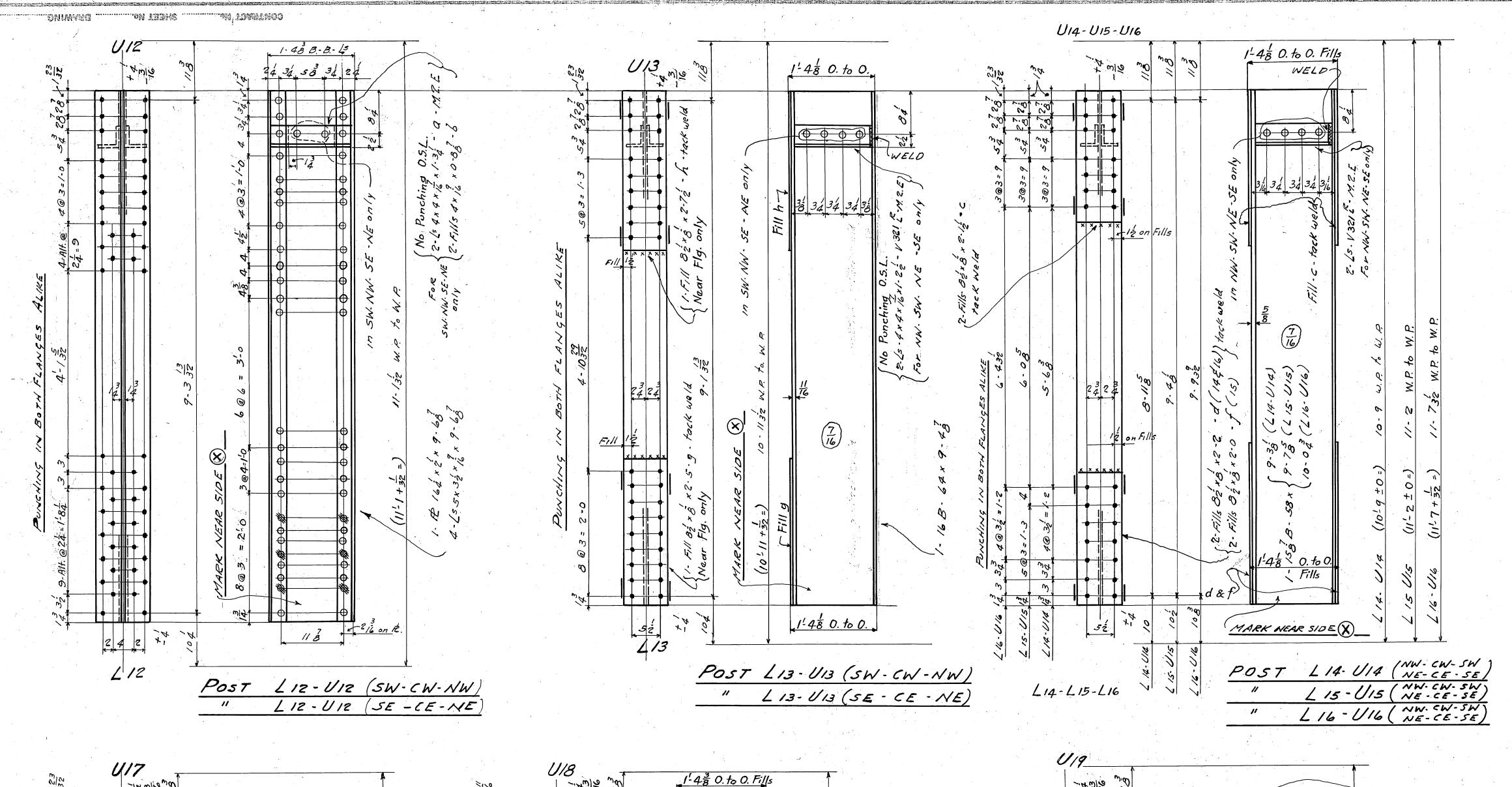
COLUMBIA AVE VIAD

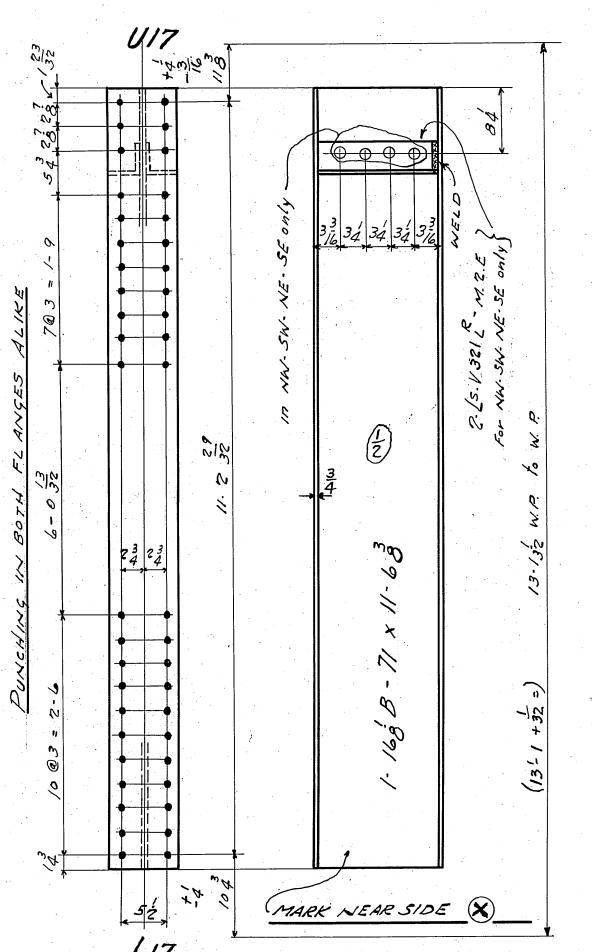
FAUREAU STEEL CONSTRU

CHECKED BORN 1915 G. S. NOR 2:12:37

REVISED LAST OSSESSION AS CC 25873





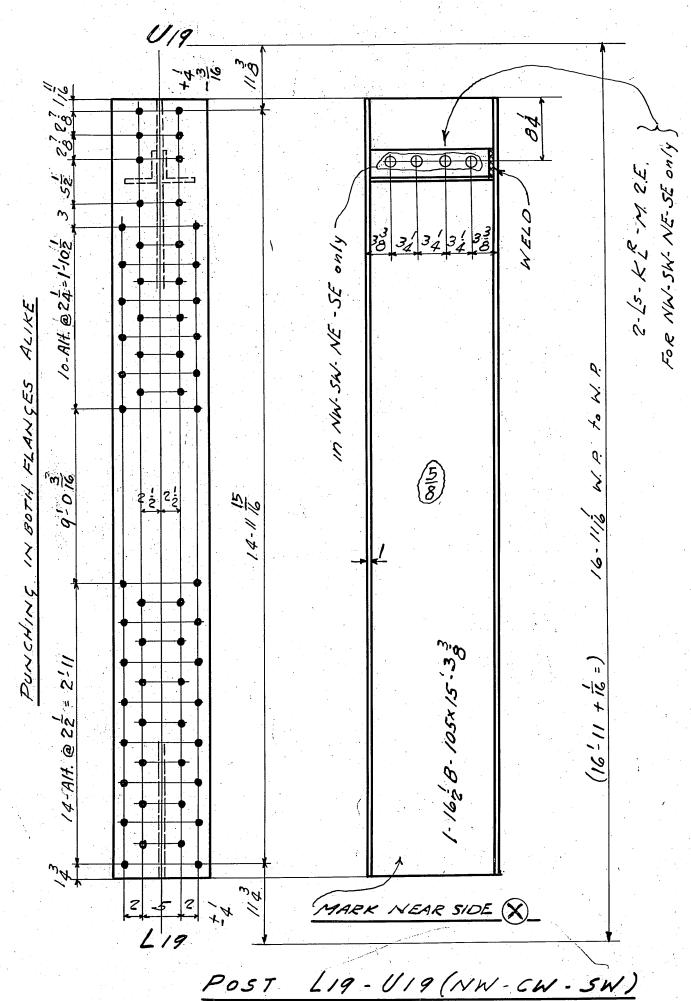


POST L17-U17 (NW-CW-SW)

" L17-U17 (NE-CE-SE)

SECT A-A 1-48 0. to 0. MARK NEAR SIDE (X)

POST LIB-UIB (NW-CW-SW) L18-U18(NE-CE-SE)



L19-U19 (NE-CE-SE)

shearen EDGES of main material over 5/8" thick shall be planed to a depth of 1/4" where noted on details.

FLANE CUT EDGES of main material shall be planed ohipped or ground and present a smooth workmanlike appearance. One coat of RED LEAD except where noted. Shop contact surfaces not painted.

truss is assembled.

MATERIAL :- Ourton steel A.B. P. H. A7-84 with .

copper content, except were noted.
All boles may be punched full size

(a) All holes marked RT are to be embrunched 1/8" small and reamed to size to a metal templet.

(b) Field commactions of trusses

(c) Holes in main material over 5/8"
thick shall be subpunched 1/8" small

(d) Holes in main material over 3/4" thick shall be drilled from the solid.

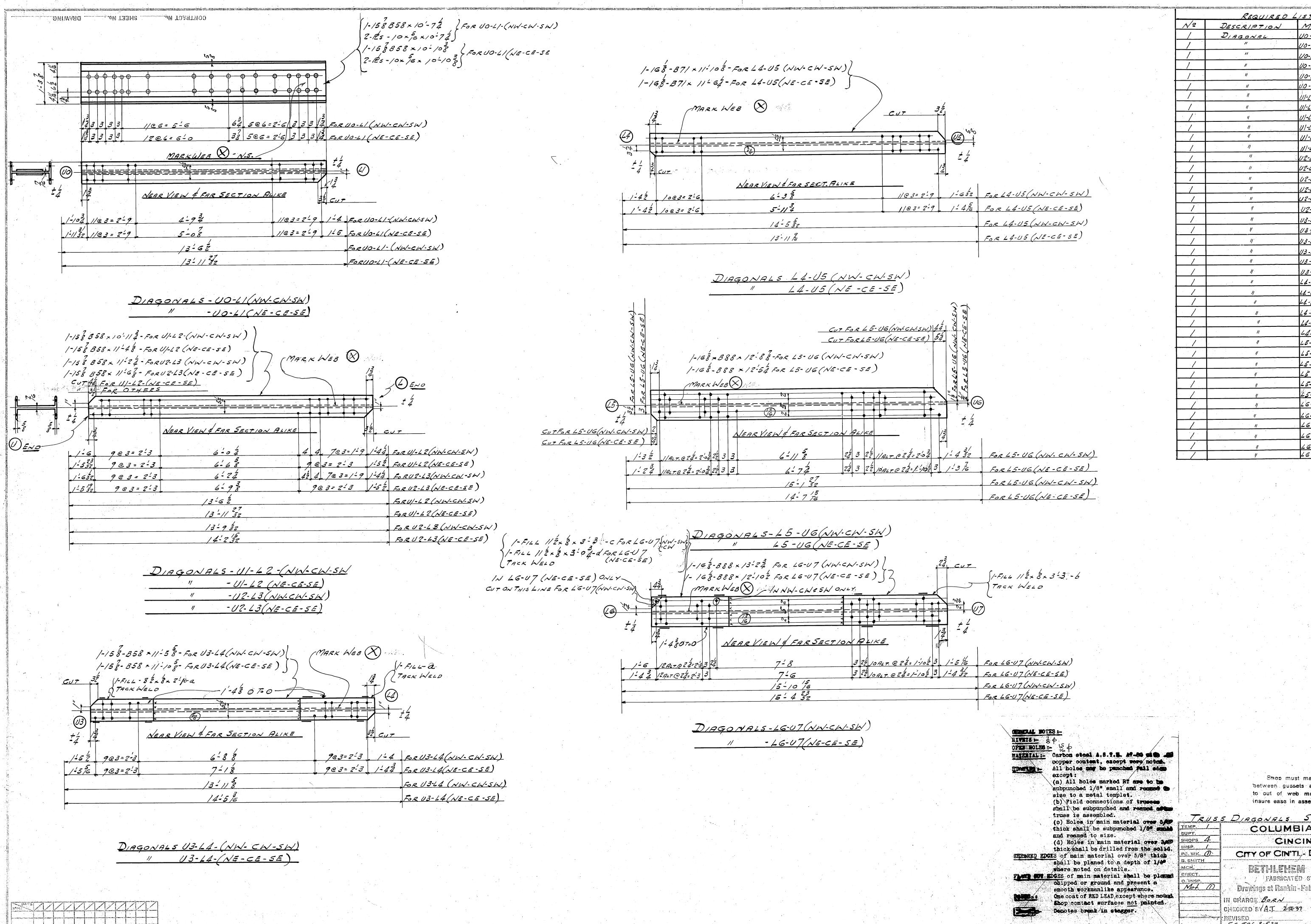
RIVETS :- 7.5" \$
OPEN HOLES :- 75" \$

	REQUIRED	L15T	
No	DESCRIPTION	MARK	REMARK
1	POST	L12- U12-CW	)
	<b>u</b>	LIZ-UIZ- CE	ALIKE
1	11	L12- 812- NW	)
1	и	L12- U12- 5W	
1	<u> </u>	L12- U12. NE	ALIKE
1	<i>U</i>	L12- U12-5E	)
_ /	a	L13. U13. CW	
1	a de la companya de l	L 13. U13 - CE	JALIKE
1	<u>n</u>	6 13. U13-SW	)
/	<u>u</u>	L13-U13-NW	
/ /	U.	L 13- U13-SE	ALIKE
/	U	L 13- U13 -NE	<u> </u>
_/		L14-U14-CW	
	4	L14-U14-CE	ALIKE
/	(1	L14-U14-NW	<b>)</b>
/	11	14-U14-5W	
/	II	L 14- U 14 - NE	ALIKE
/	· · · · · · · · · · · · · · · · · · ·	1 14- U14 - SE	<u> </u>
/	ll and the second	L15- U15- CW	ALIKE
/	· · · · · · · · · · · · · · · · · · ·	6 15- U15 - CE	776/2
/	<u> </u>	1 15-015 - NW	
		115-115-5W	ALIKE
-/-	<u>"</u>	115-115- NE	
	" "	L15-U15-SE L16-U16-CW	<u> </u>
1	n n	L16-U16 - CE	ALIKE
1	U	L16-U16 -NW	,
/	u u	L16-U16-SW	
/	"	116-U16-NE	ALIKE
/	ii	L16-U16-5E	
1	. W	L17-U17-CW	)
1	ш	L17-U17- CE	ALIKE
7	<b>u</b>	L17-U17- NW	
7	"	L17-U17-SW	ALIKE
/	л	L17. U17. NE	7
/	11	L17. U17. SE	/
/	И	L18-U18-CW	
/	1	L18-U8-CE	ALIKE
/		L18-U18- NW	
/	~ "	L18-U18-5W	
/	11	L18-U18-NE	ALIKE
	u	L18-U18-5E	1
/	H.	119-019-CW	
/	п	119-U19-6E	SALIKE
/	"	L19-U19-NW	<u> </u>
/	υ	L19.019.5W	1
_/_	<u>u</u>	L19- U19- NE	ALIKE
	$\boldsymbol{u}_{\lambda}$	119-U19-SE	<u>/</u>

SPANS 5.7 \$ 10-12 POSTS 12 to 19 Incl. TEMP.
SUPT.
SHOPS 4
INSP.
PC. WK. 0
B. SMITH
MCH. COLUMBIA AVE VIADUCT CINCINNATI, OHIO CITY OF CIN'TI - DEPT. PUBLIC WORKS BETHLEMELA STEEL COMPANI

FABRICATED STEEL CONSTRUCTION Brawings at Rankin - Fabrication at

IN CHARGE BORN WADE BY G.S.
CHECKED BY J.S.2\20\37 TRACED BY NOD 2.16.37 F.C. TBC 3-5-37



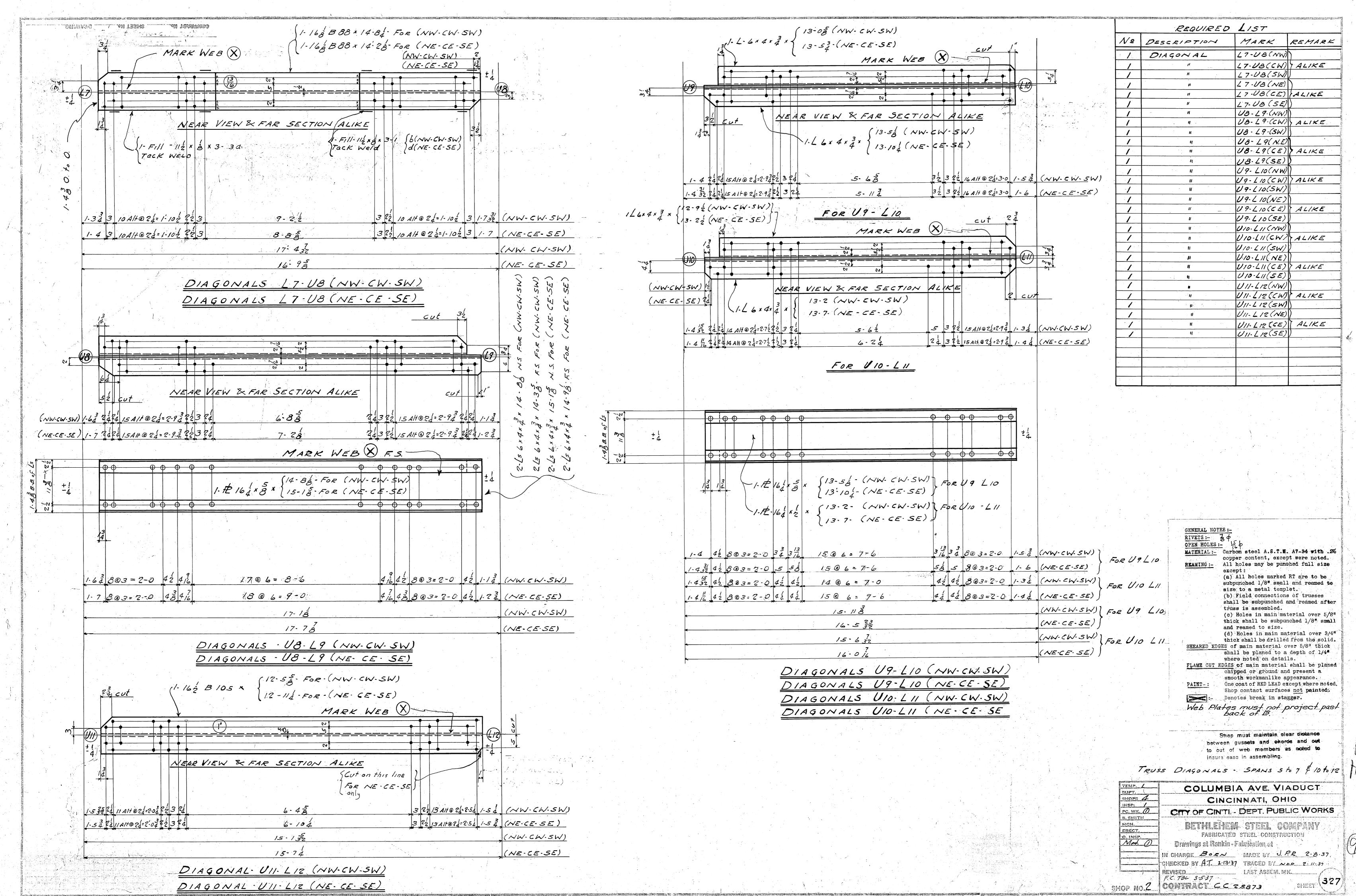
0 0 1//

MARK REMARKS 10-61-NW 10-LICW PLIKE 10-61-5W 10-11-NE 10-11-CE TALIKE 1-12 NW 11-12-GW Y ALIKE 1-62-5W 11-12-NE 11-12-CE T ALIKE U1-12-5E 12-63-NW UZ-L3-CW Y ALIKE U2-L3-5W UZ-L3 - NE 12-63-CE Y ALIKE UZ-L3-5E U3-L4-NW U3-14-CW TALIKE U3-L4-5W 113-64-NE U3-L4-CE 7 U3-L4.5E L4-U5 -NW 14-U5-CW TALIKE 44-U5-5W 14-05-NE 14-US-CE YALIKE 44-U5-5E 15-06- NW 15-UG-CW TALIKE 45-06-5W 45-UG-NE 45-UG-CE PALIKE 25-U6-5E 46-U7-NW LG-UT-CW TALIKE 16-07-5W 16-07-NE 16-U7-CETALIKE 46-07-5E

TRUSS DIAGONALS SPANS 5-7 \$10 To 12 COLUMBIA AVE VIADUCT CINCINNATI, OHIO CITY OF CINTI,- DEPT. PUBLIC WORKS

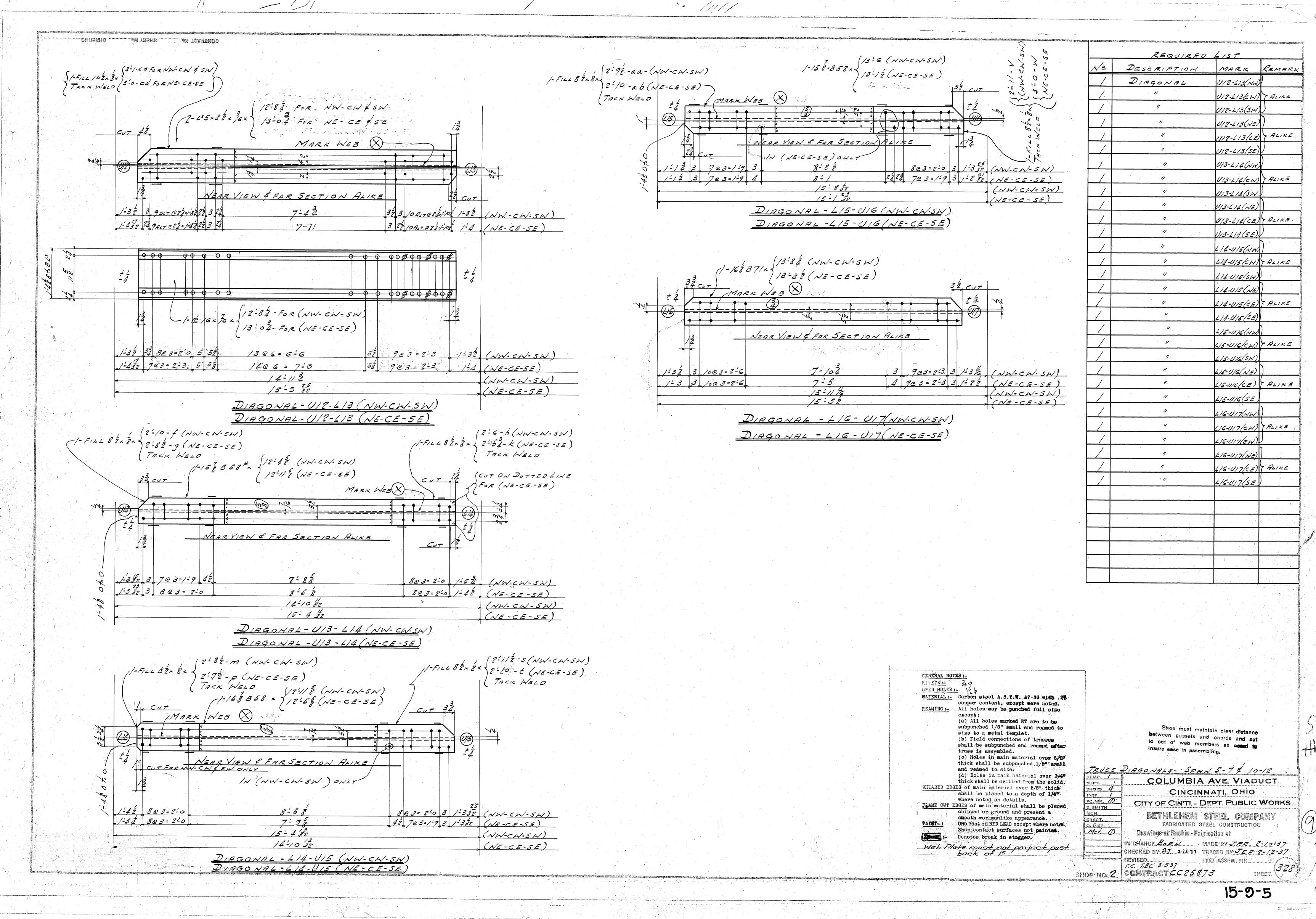
BETHLEHEM STEEL GIMPAN'I FAURICATED STEEL CONSTRUCTION Drawings at Rankin - Fabrication at

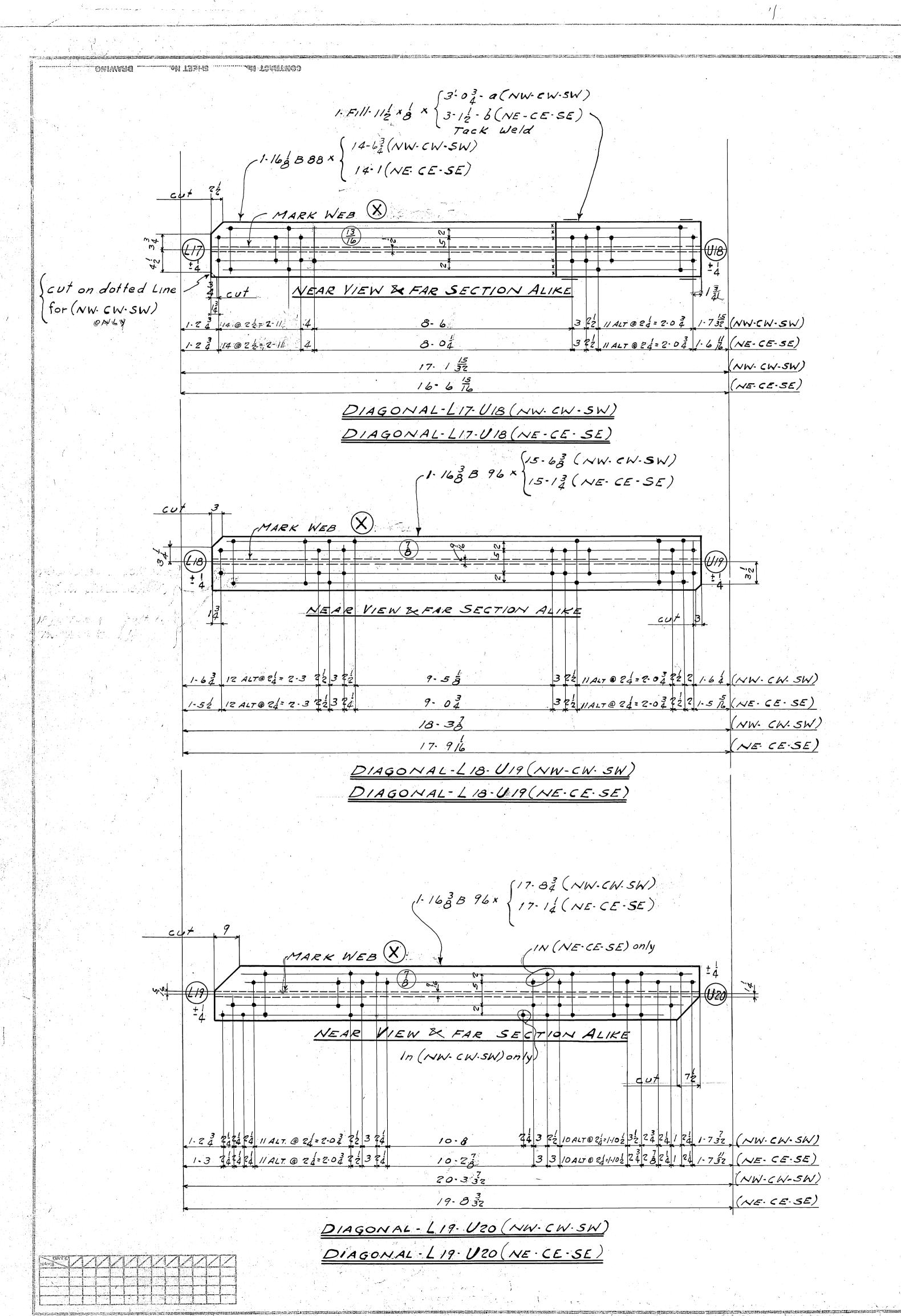
IN CHARGE BORN MADE DY J.H. L /-3-37 CHECKED BY A.T. 2037 THACED BY JEP1-8-37 F.C. TBC 3-5-37 SHOP NO 2 CONTRACT CC 25873



0 0 ( 0.

15-9-4





REQUIRED LIST					
Ne	DESCRIPTION	MARK	REMARK		
1	DIAGONAL	L 17-U18(NW)			
1	11	L17-U18 (CW)	ALIKE		
1	"	L17-U18(SW)			
1	#	L17. U18(NE)			
1	<b>"</b>	L 17- U 18(CE)	ALIKE		
1		L17. U18 (SE)			
1	u u	L18-U19(NW)			
1	· U	L18-U19(CW)	ALIKE		
1	ı,	L 18-U19 (SW)			
1	l l	L 18. U19 (NE)			
1	u.	L 18-U19(CE)	ALIKE		
1	I	[48:U19 (SE)			
1	· · · · · · · · · · · · · · · · · · ·	L 19. UZO(NW)			
1	11	L 19.U20(CW)	ALIKE		
1	"	L 19-UZO(5W)			
/	<b>"</b>	L 19-UZO (NE)			
/	11	L 19-U20 (CE) L 19-U20 (SE)	ALIKE		
/	<b>II</b>	119-UZO(SE)			
		<u> </u>			

GENERAL NOTES :-

OPEN HOLES:- 15 6

Carbon steel A.S.T.M. A7-34 with .2% copper content, except were noted.

REAMING:- All holes may be punched full size

except:

(a) All holes marked RT are to be subpunched 1/8" small and reamed to size to a metal templet.

(b) Field connections of trusses shall be subpunched and reamed after

truss is assembled.

(c) Holes in main material over 5/8" thick shall be subpunched 1/8" small and reamed to size.

(d) Holes in main material over 3/4" thick shall be drilled from the solid.

sheared edges of main material over 5/8" thick shall be planed to a depth of 1/4" where noted on details.

FLAME CUT EDGES of main material shall be planed

chipped or ground and present a smooth workmanlike appearance.

INT:
One coat of RED LEAD except where noted.
Shop contact surfaces not painted.

Denotes break in stagger.

Shop must maintain clear distance between gussets and chords and out to out of web members as noted to

TRUSS DIAGONALS - SPANS 5-7 & 10-12

TEMP.
SUPT.
SHOPS 4
INSP. /
PC. WK. 0
E. SMITH
MCH.

CINCINNATI, OHIO
CITY OF CIN'TI - DEPT. PUBLIC WORKS

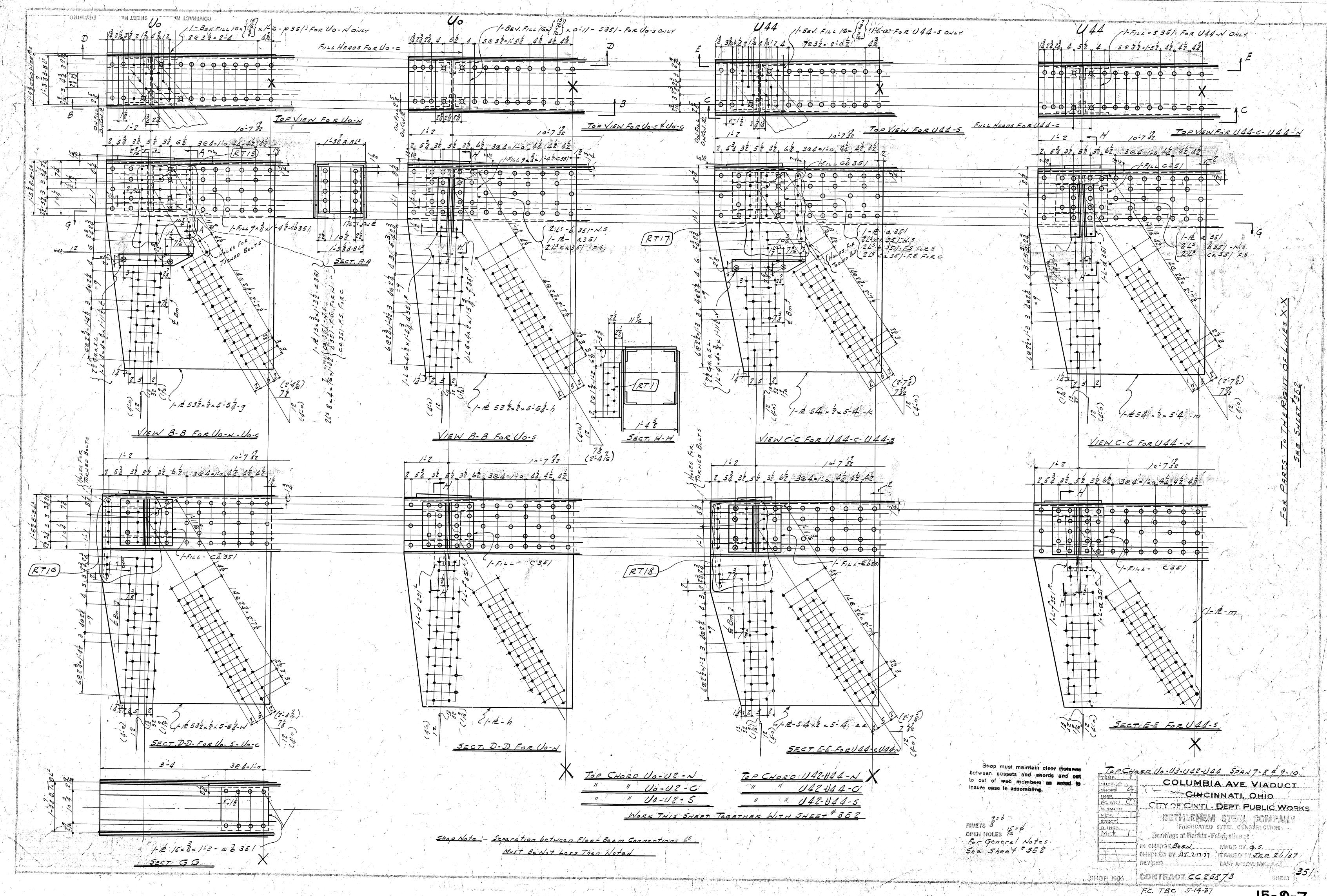
BETHLEHEM STEEL COMPANY
FABRICATED STEEL CONSTRUCTION
Drawings at Mankin'- Fabrication at

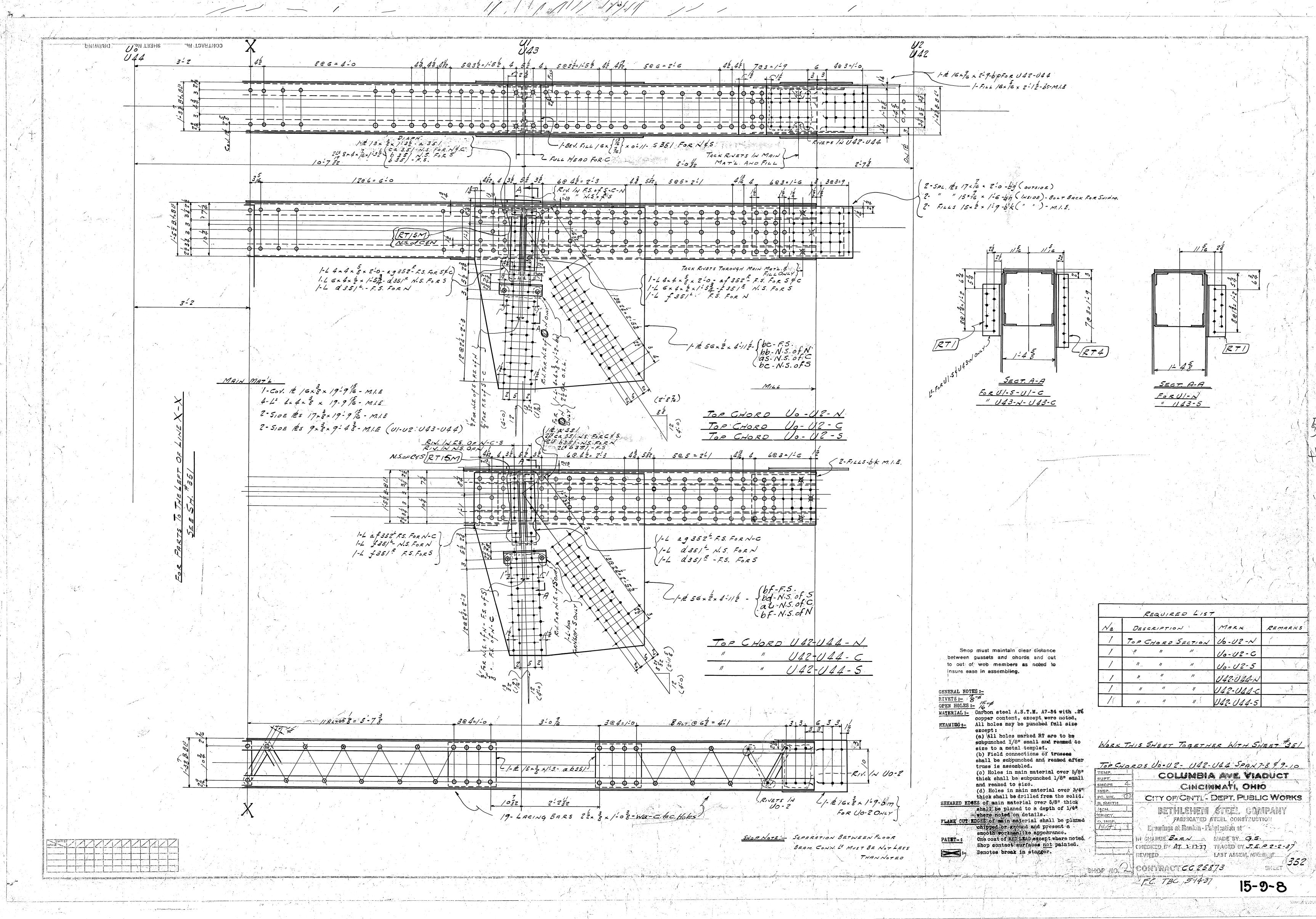
CHECKED BY AT 2-15-37 TRACED BY NOP 2-12-37

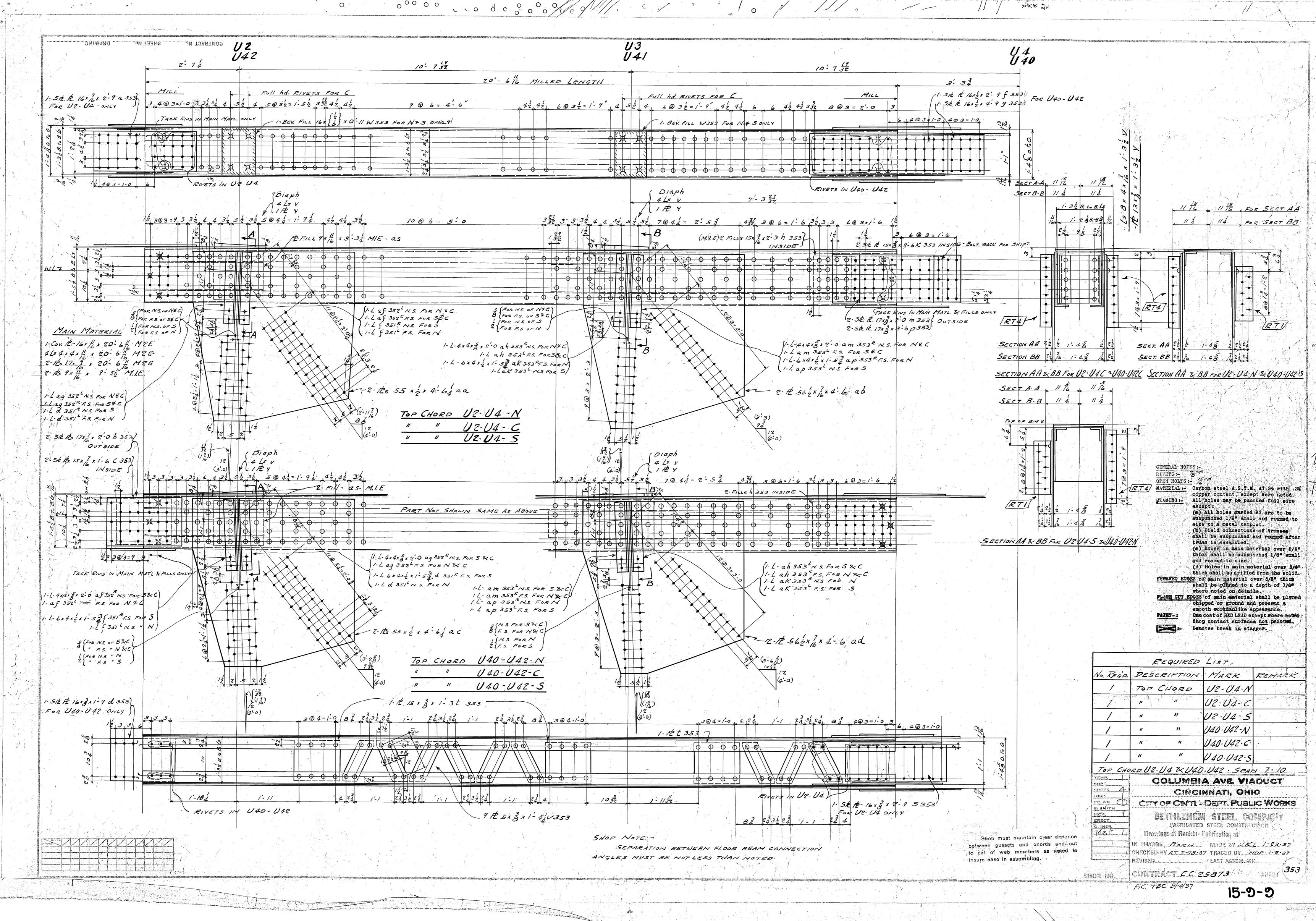
SHIED NO.2 CONTRACT CC 25873

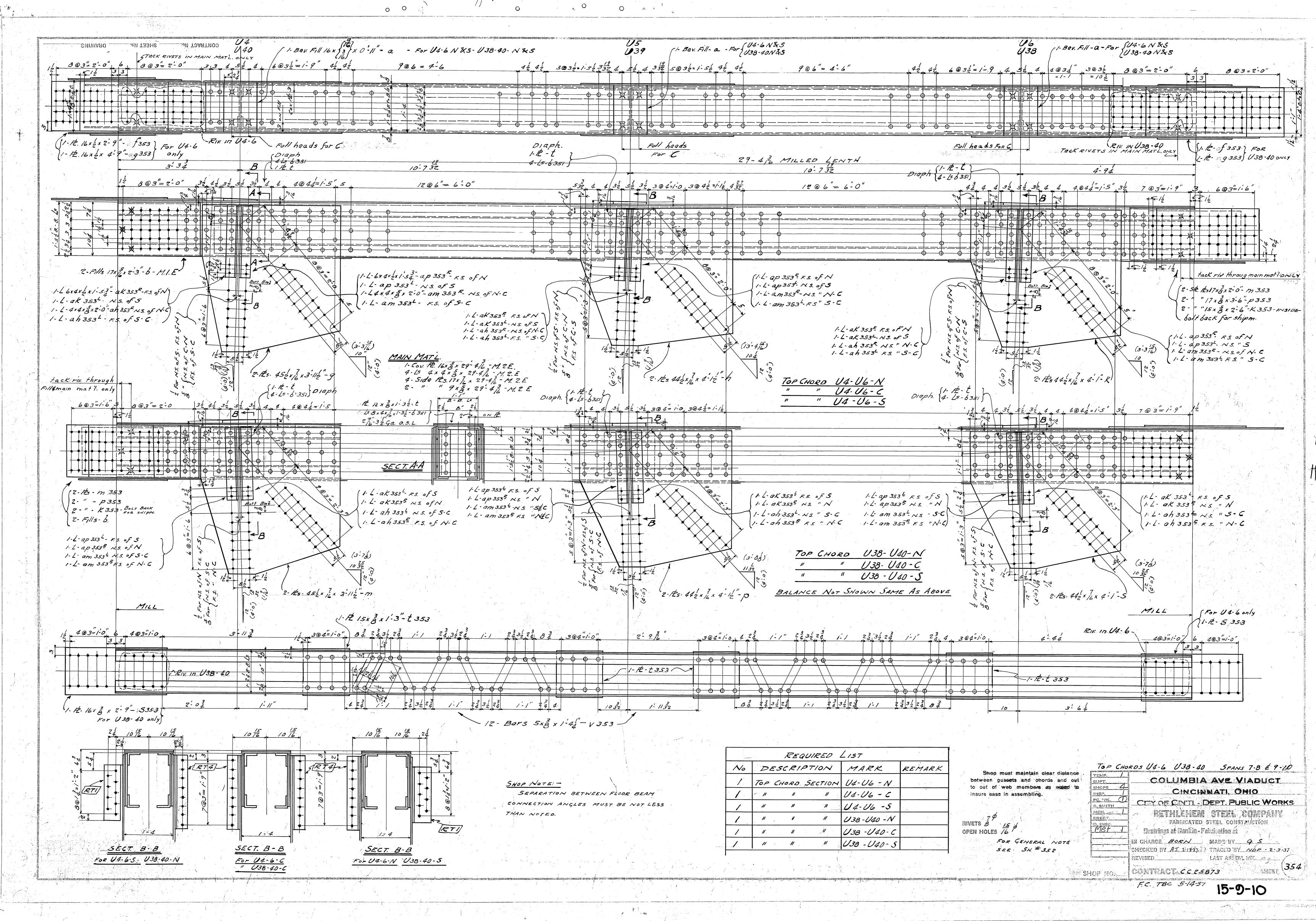
SHIED NO.2

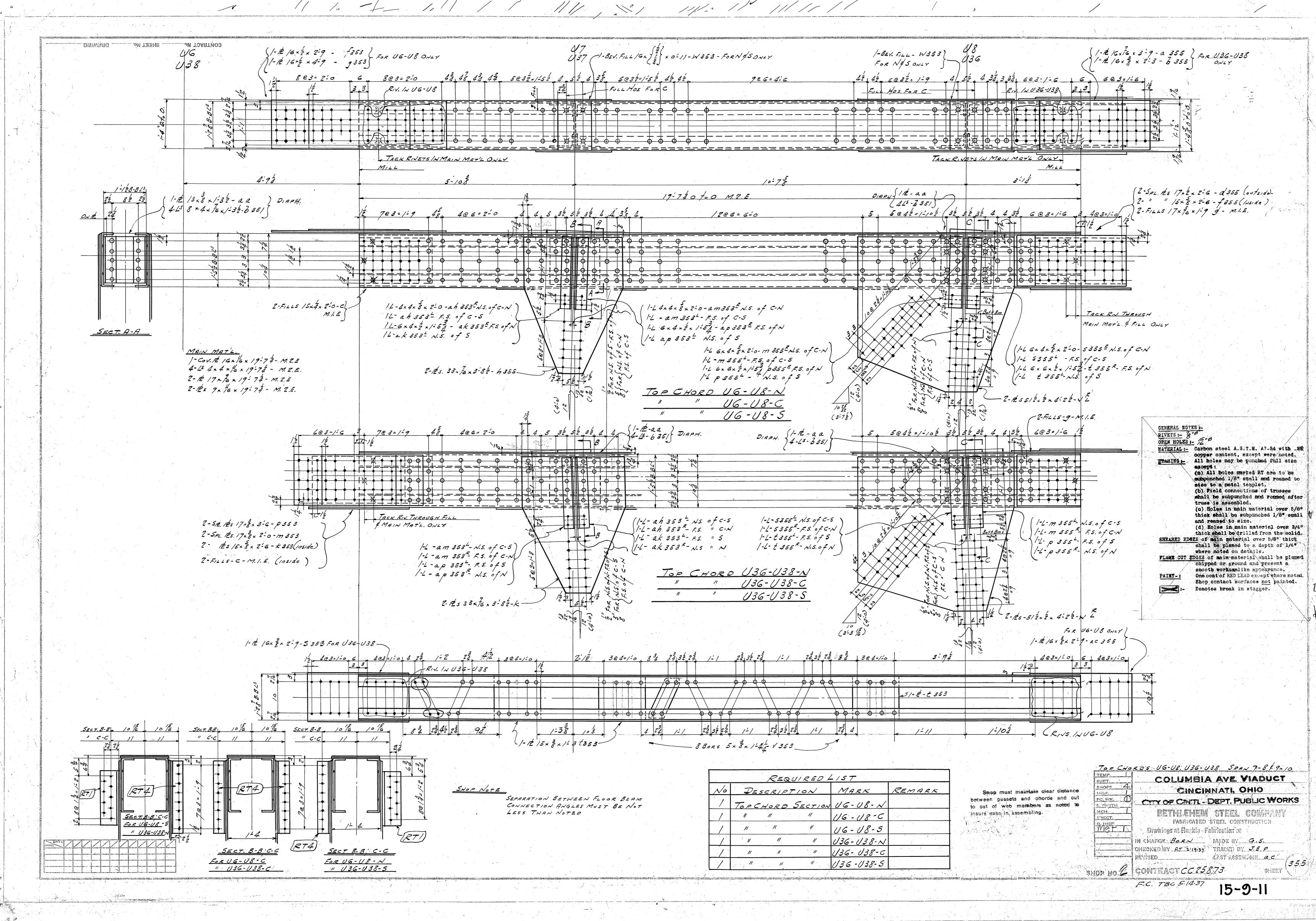
15-9-6

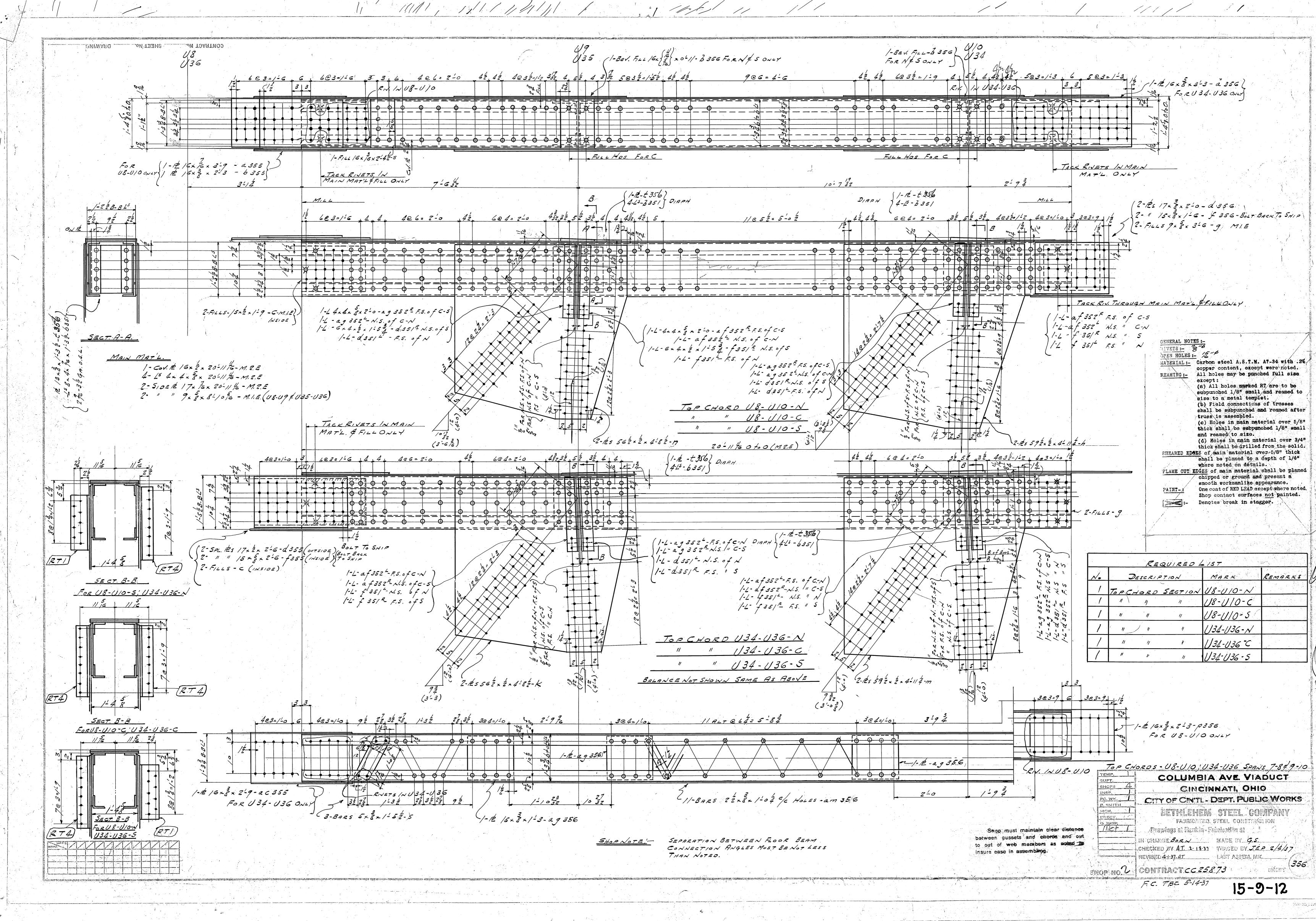


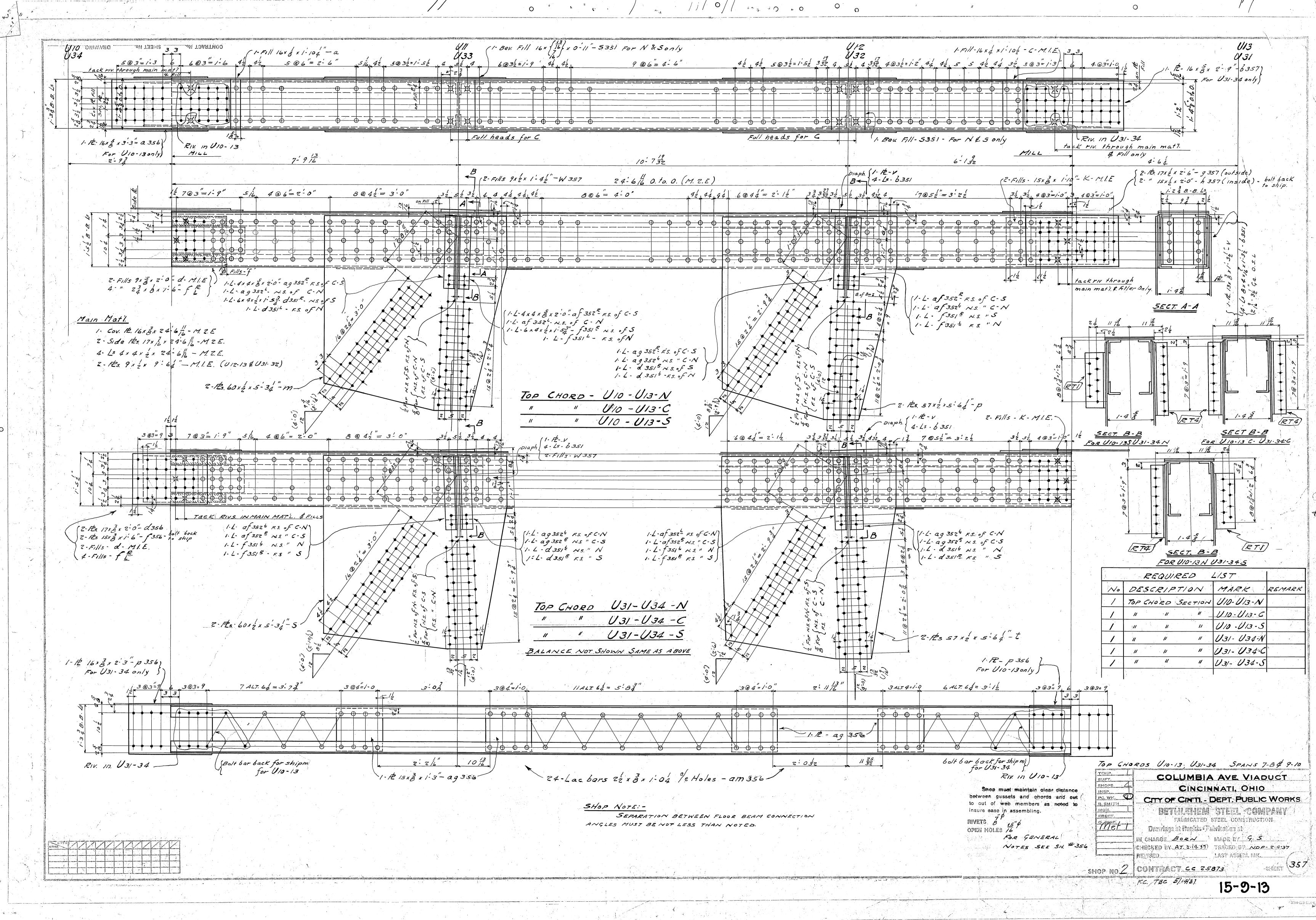


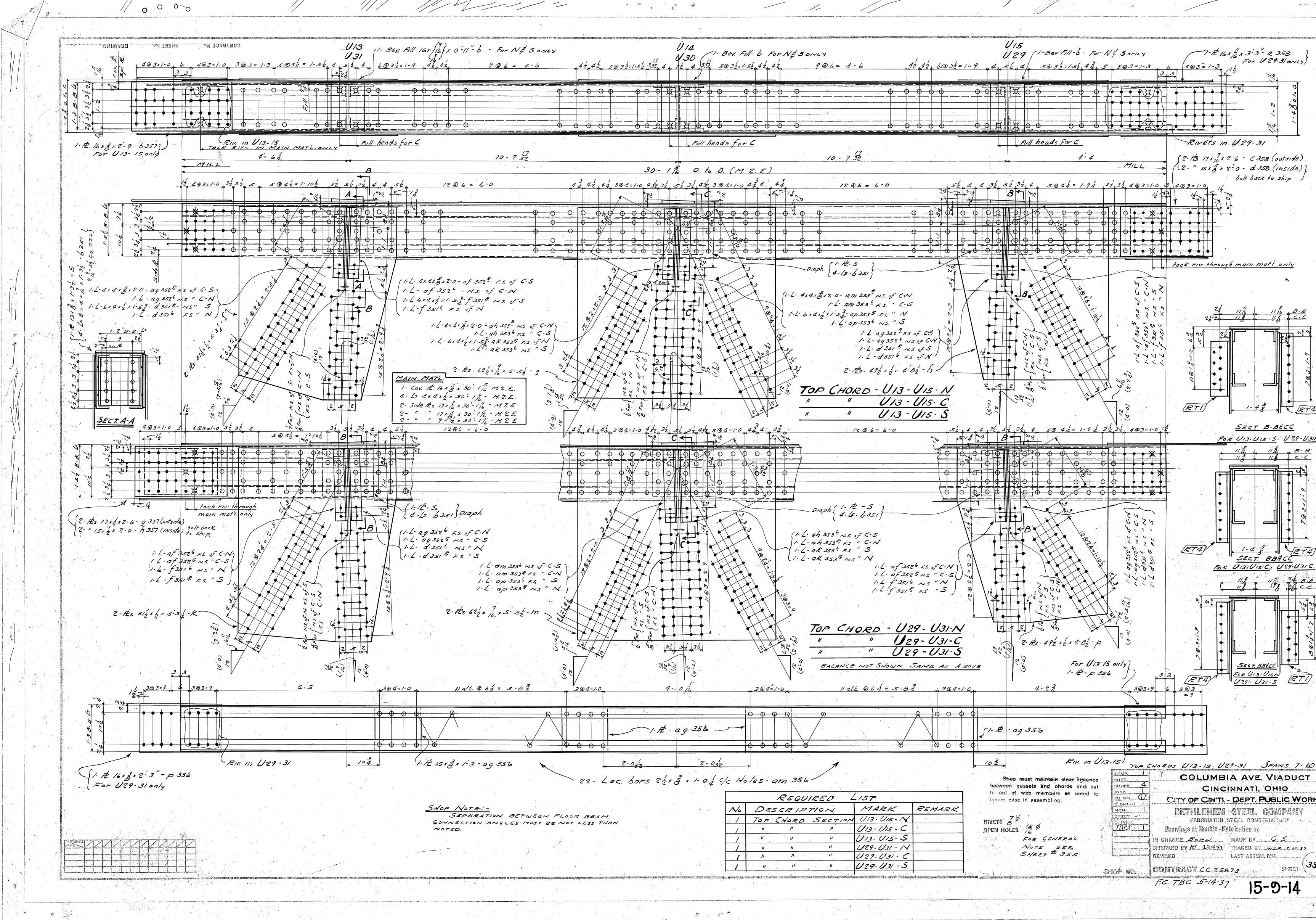


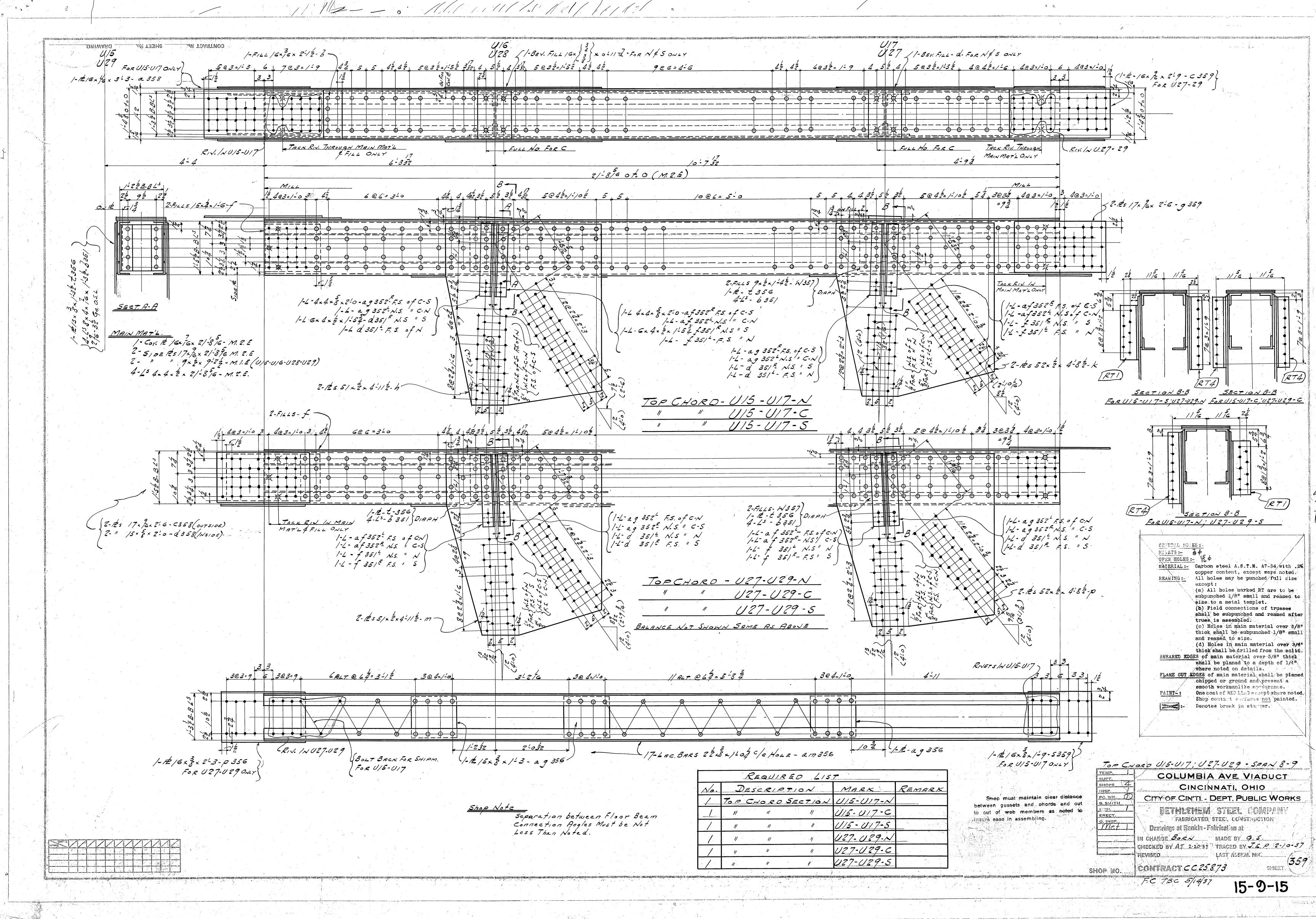


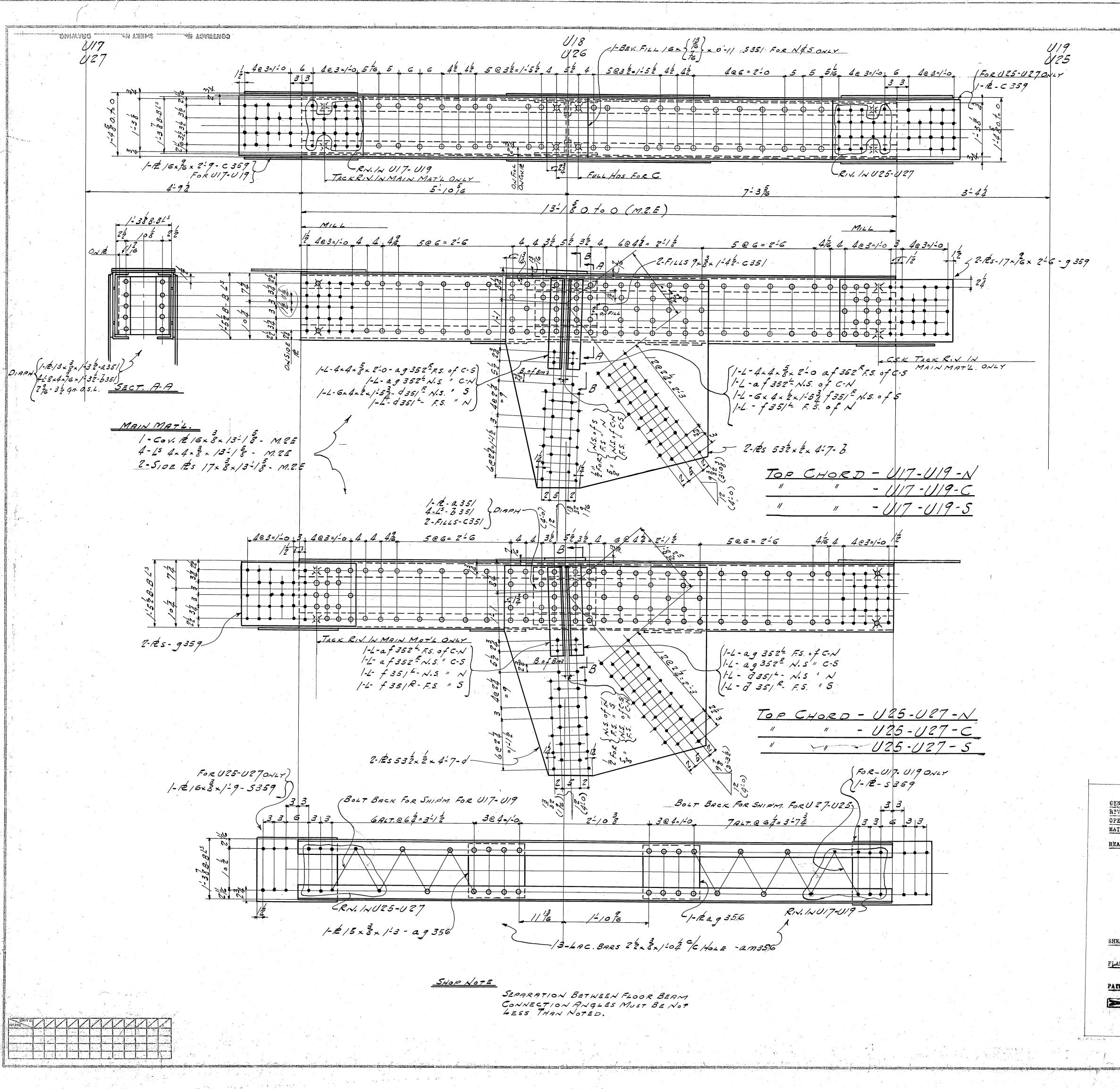


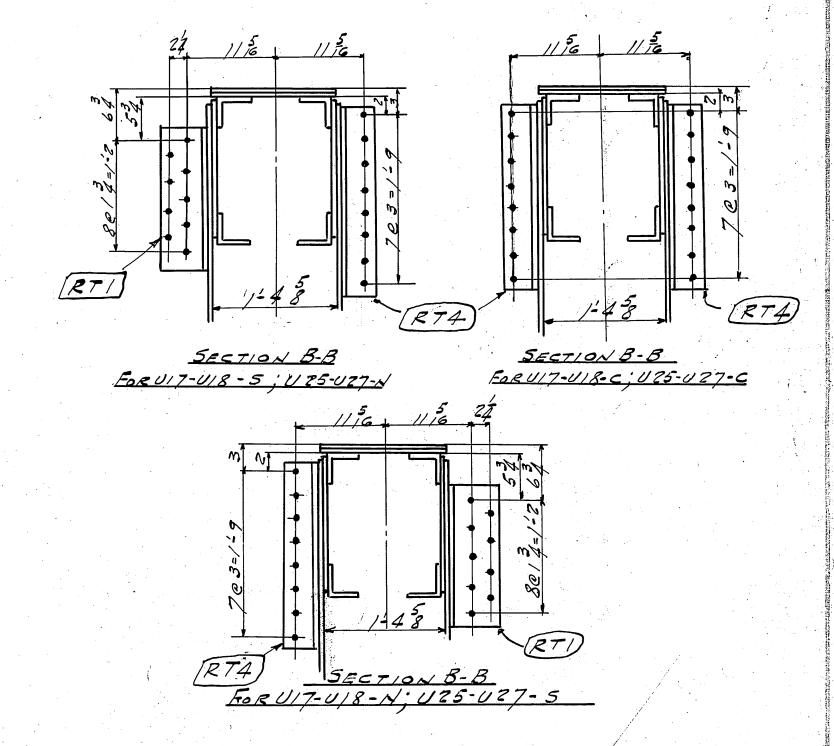












GENERAL NOTES &-AIVETS:- 34 OPEN HOLES:- 15 4

MATERIAL:- Carbon steel A.S.T.M. A7-34 #381 .ST copper content, except were moten. REAMING 8- All holes may be punched full sime GECOPt:

(a) All holes marked RT are to be subpurched 1/8" small and remain to size to a metal templet. (b) Field connections of trusses shall be subpunched and reamed after truss is sasembled. (c) Holes in main material over 5/8\* thick shall be subpunched 1/8\* email and reamed to size. (d) Holes in main material over 3/47

thick shall be drilled from the solld. SHEARED EDGES of main material over 5/8" thick shall be planed to a depth of 1/49 where noted on details.

FLAME CUT EDGES of main material shall be planed chipped or ground and present a smooth workmanlike appearance. One coat of RED LEAD except where noted. Shop contact surfaces not painted." Denotes break in stagger.

> Shop must maintain clear distance between gussets and chords and out to out, of web members as noted

	R	REQUIRED LIST			
Nº	DES	CRIPTIO	~	MARK	REMARKS
/	TOPC	40RD S	ECTION	1 U17-U19 -N	
/	11	"	11	U17-U19-C	
/	11	<b>"</b>	11	U17-U19-5	
/	11	y	"	U25-U27-N	
/	"	//	"	U25-U27-C	
/	//	4	//	025-027-5	

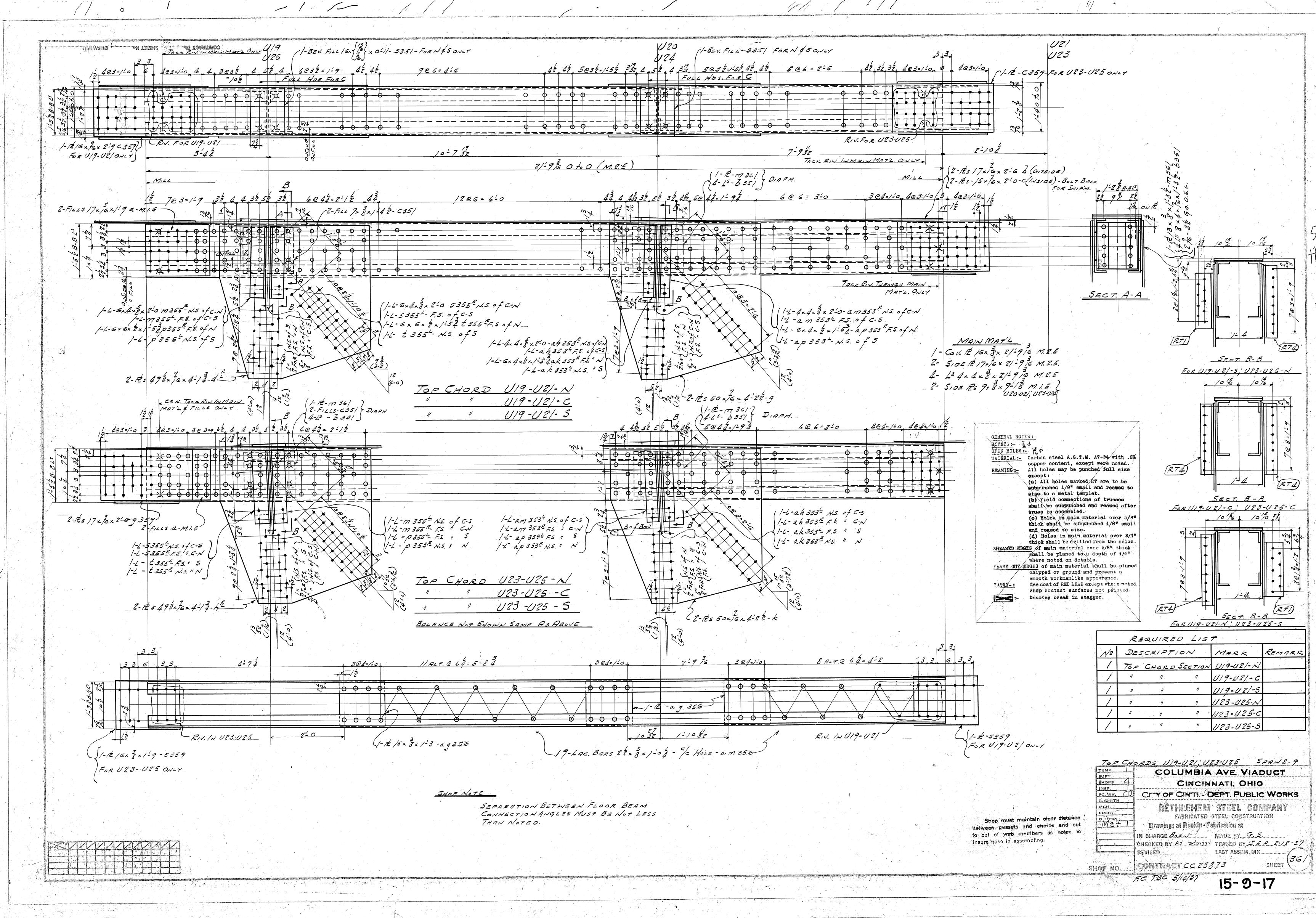
TOP CHORDS 017-019; 025-027 SPAN8-9 COLUMBIA AVE VIADUCT SHOPS 4 CINCINNATI, OHIO CITY OF CIN'TI. - DEPT. PUBLIC WORKS B. SMITH BETILEHER STEEL COMPANY ERECT.

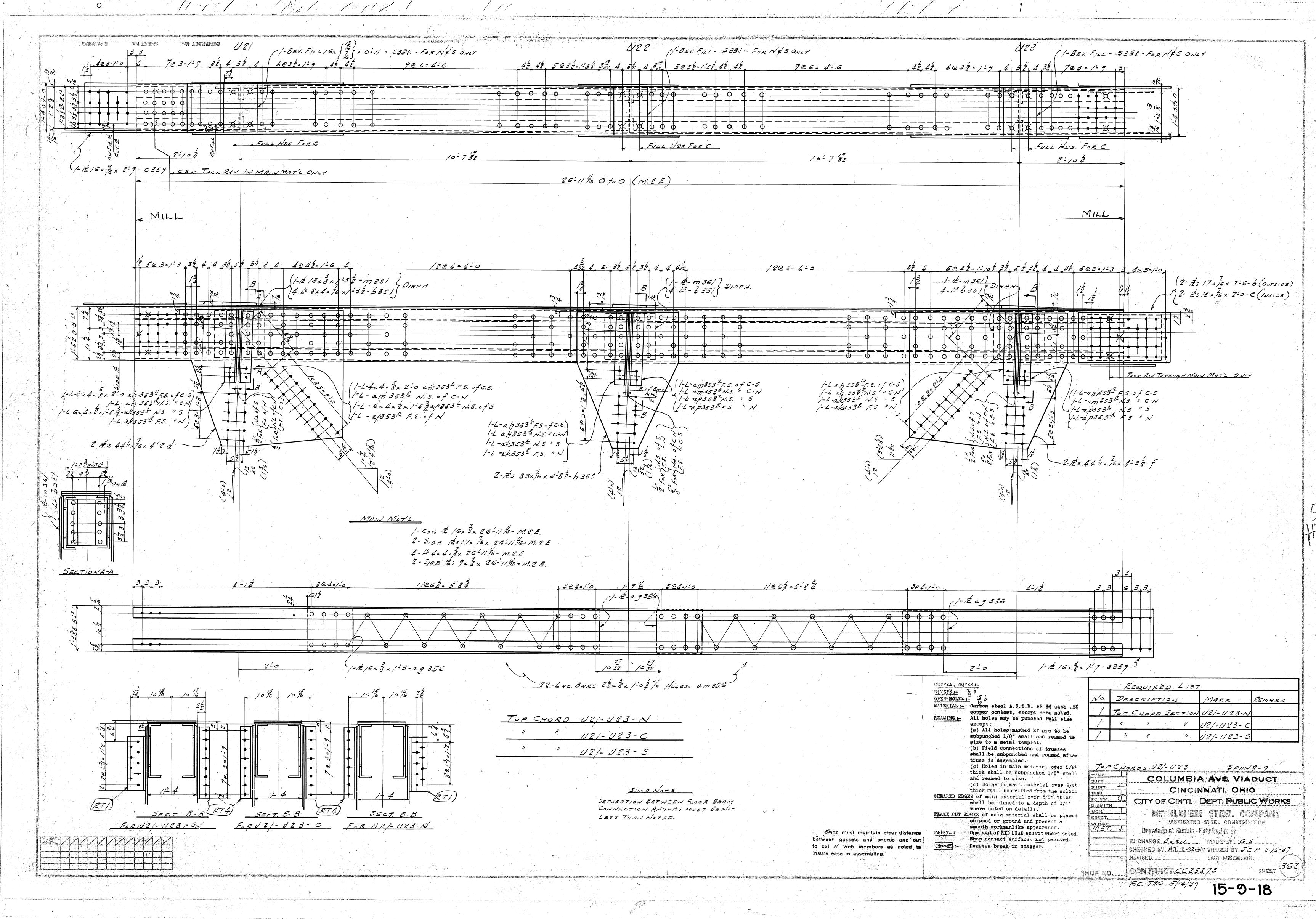
FABRICATED STEEL CONSTRUCTION Brawlings at Mankin-Pairication at

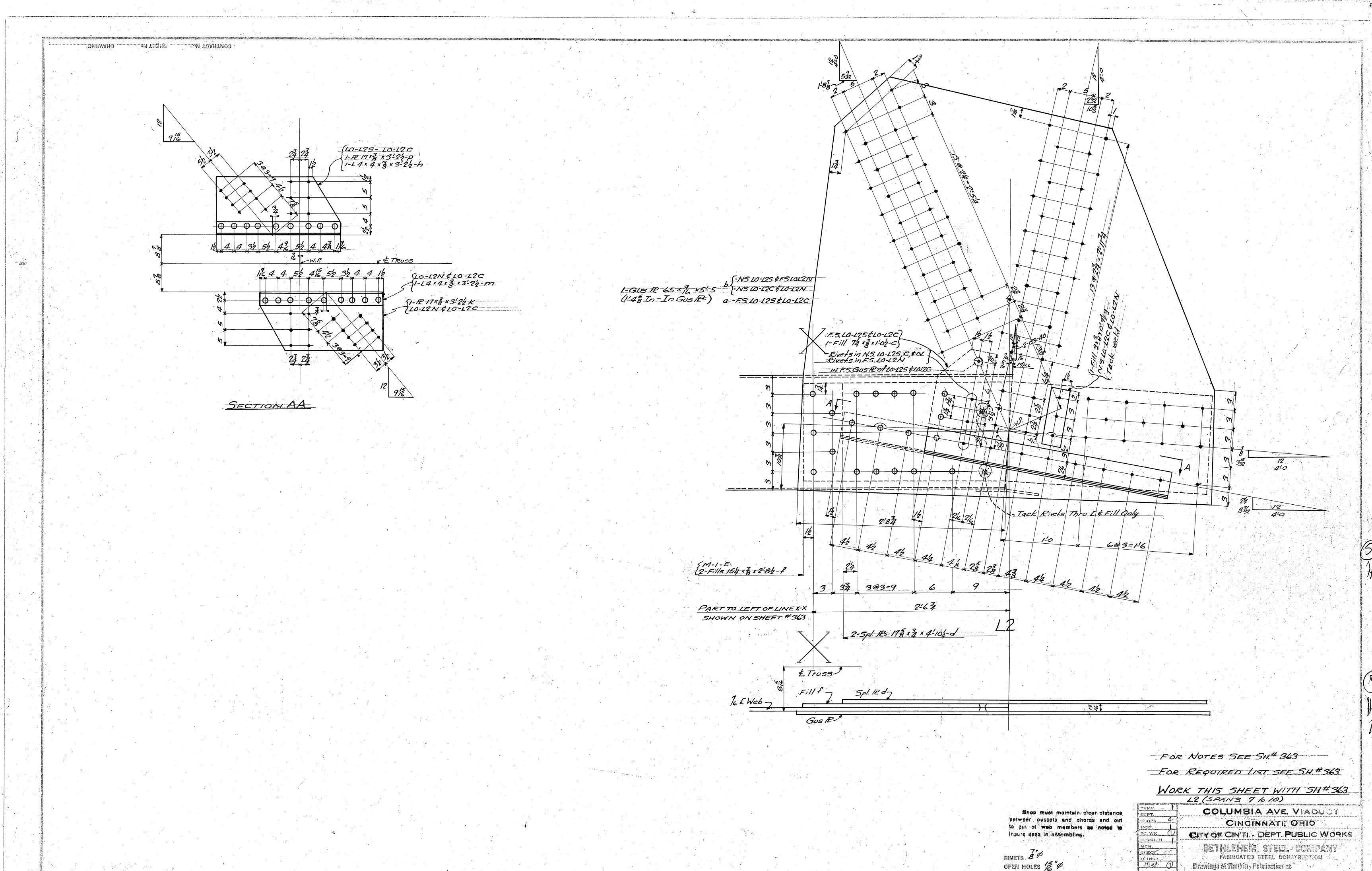
in Charge Born Made by G. 5 CHECKED BY A.T. 1-20-37 TRACED BY J.E.P 2-1/-37

CONTRACTCC25873 F.C. TBC 5/14/37

SIDP NO.





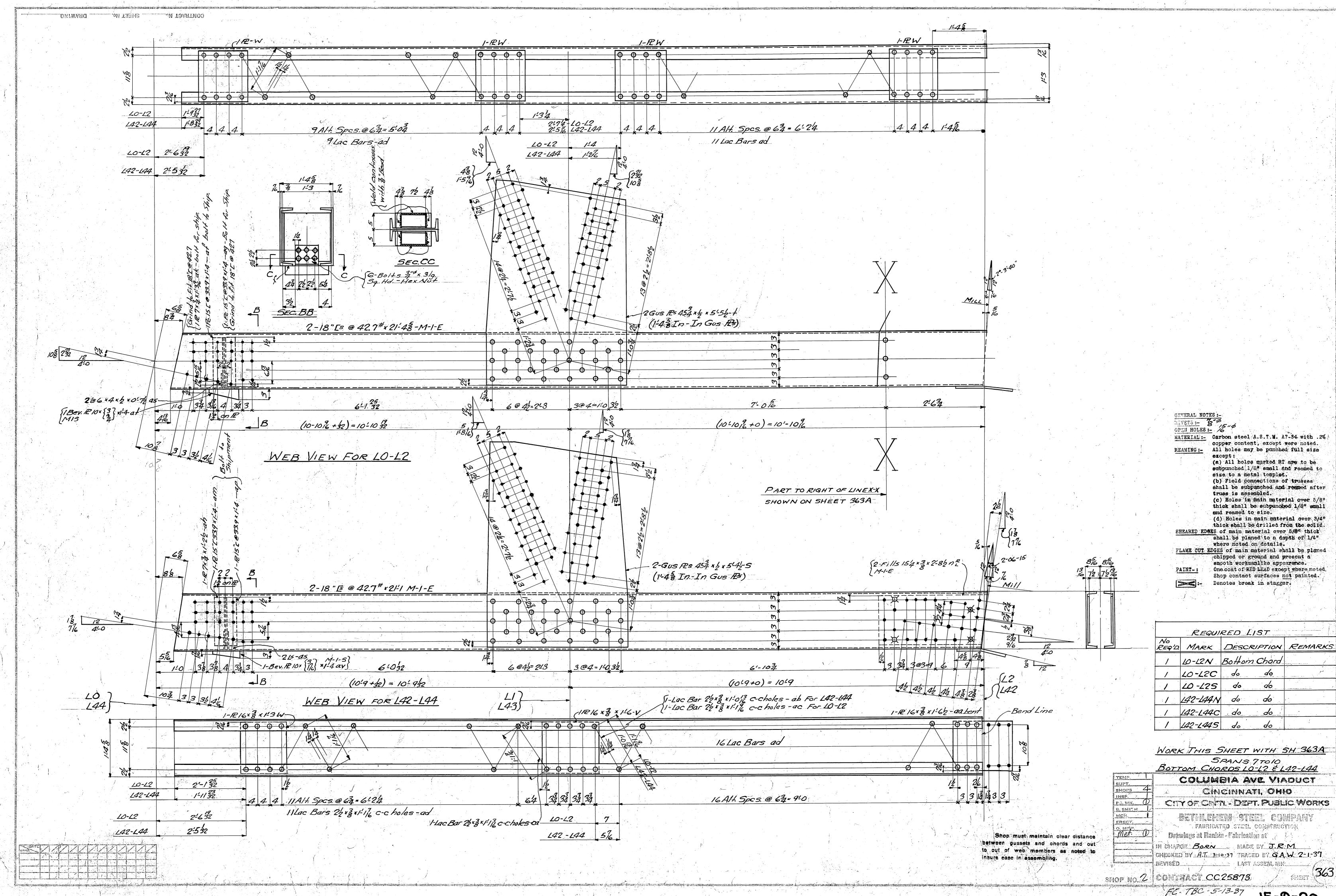


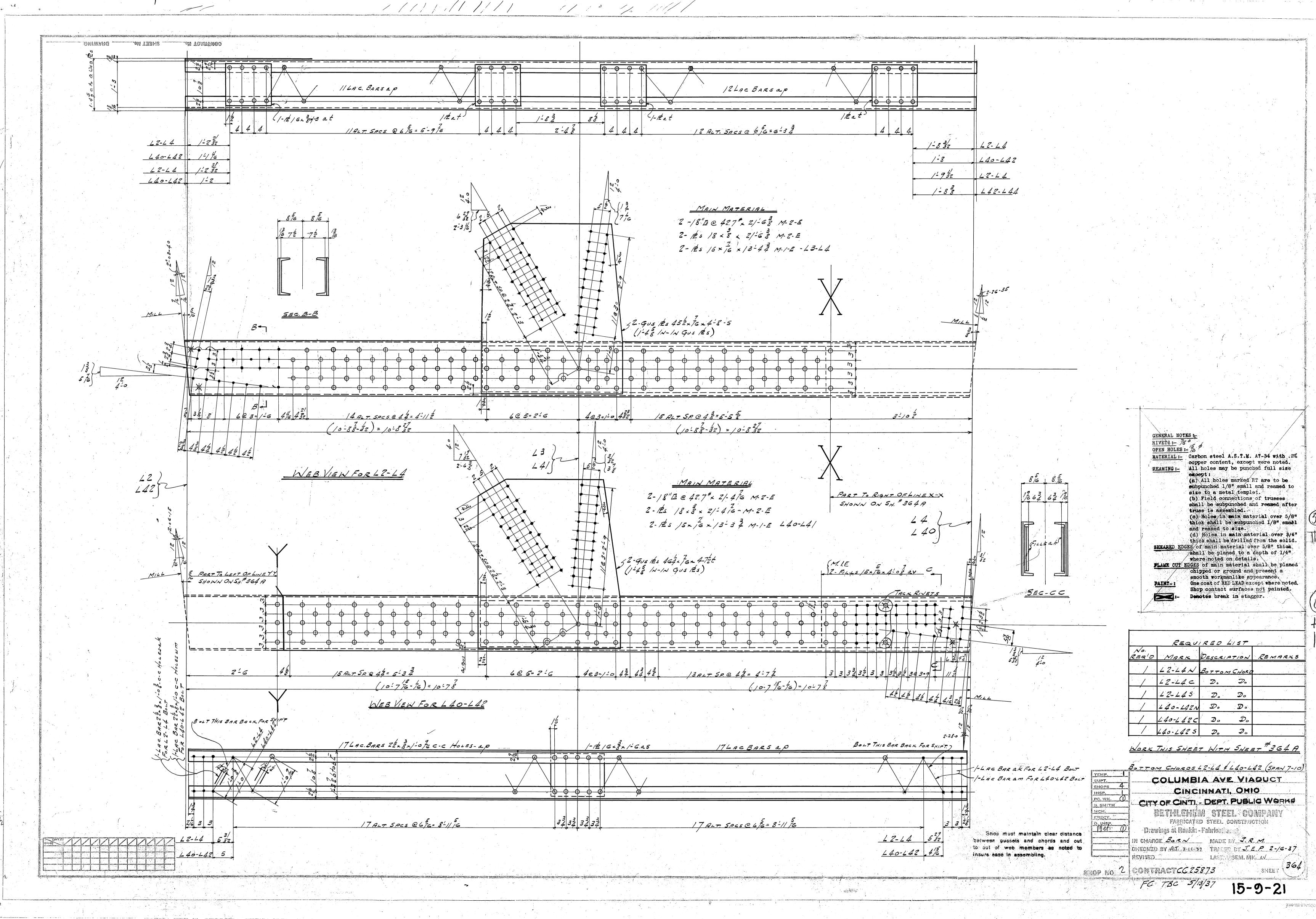
15-9-19

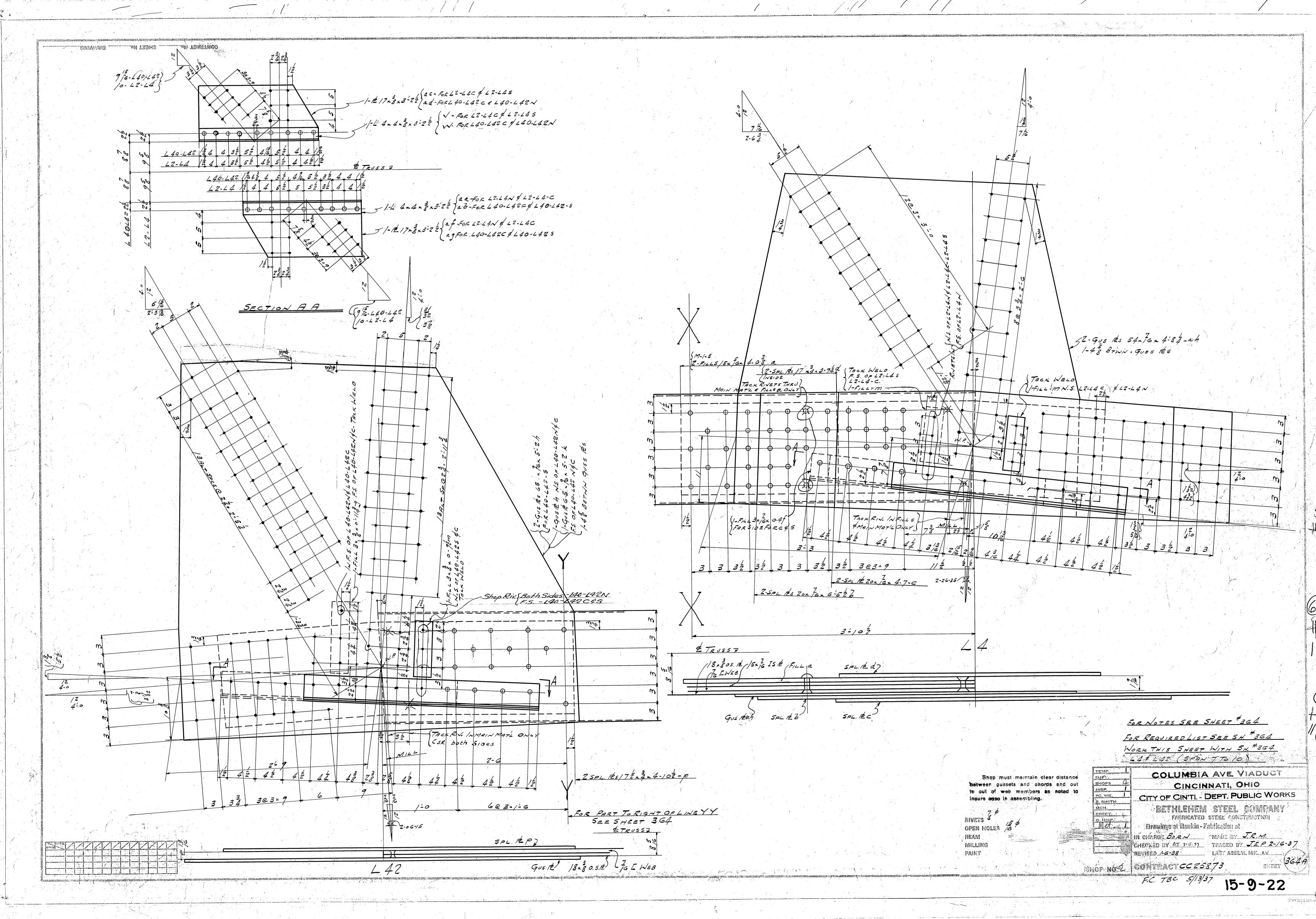
IN CHARGE BORN MADE BY JRM CHECKED BY AT 3.10.31 TRACED BY G.A.W-2-2-37

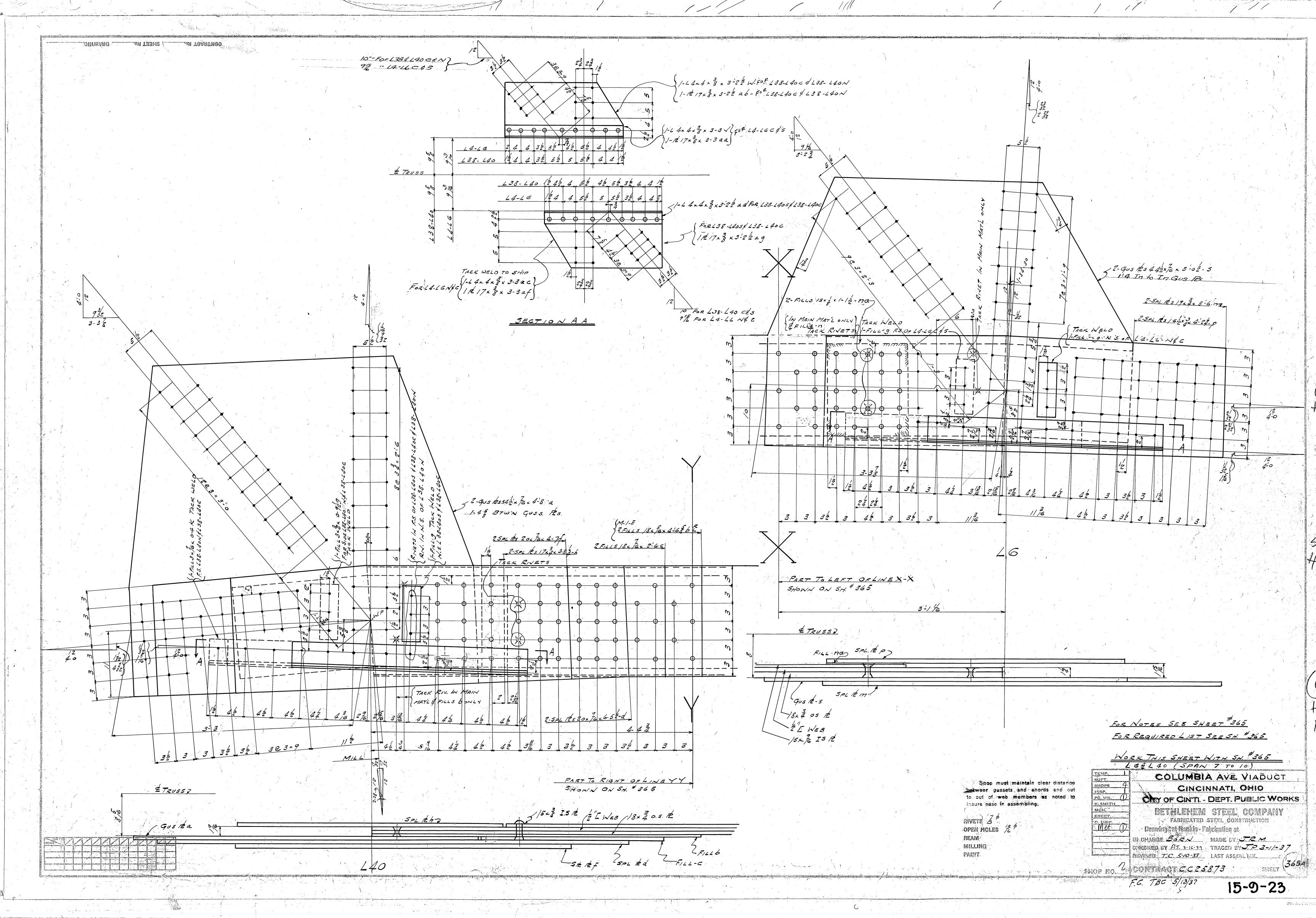
SHOP NO, 2 CONTRACT CC 25873

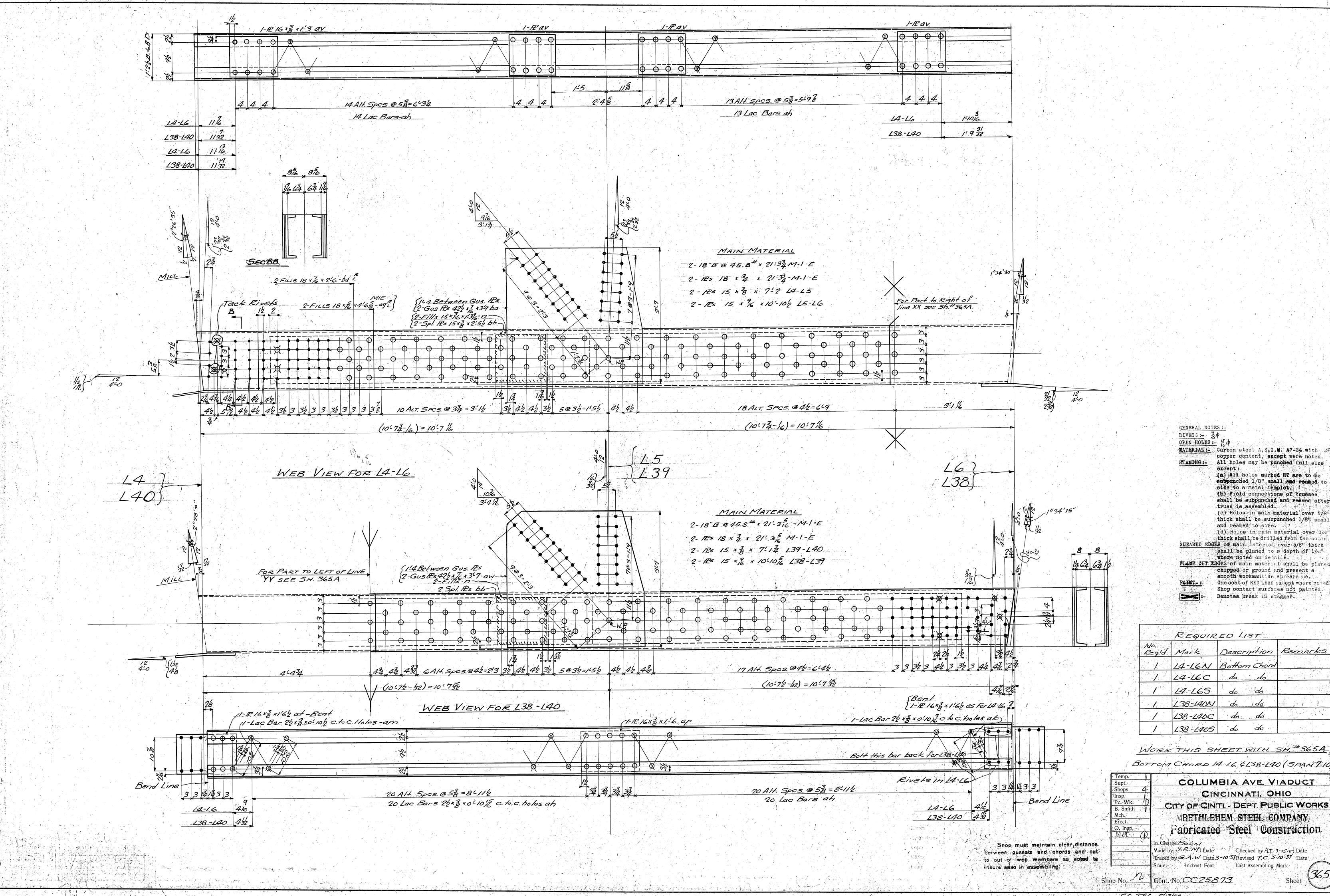
F.C.T.B.C. 5-13-37



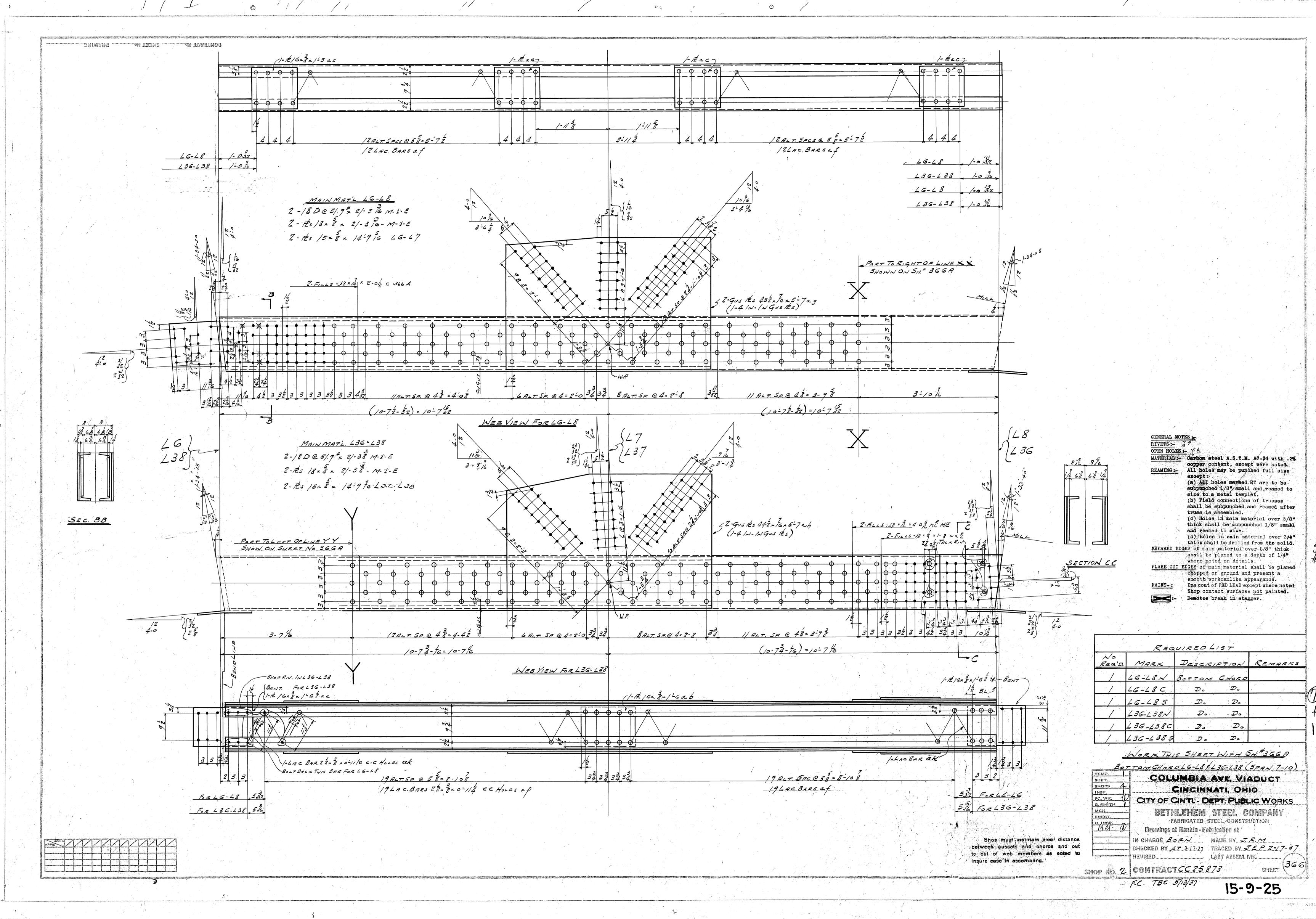


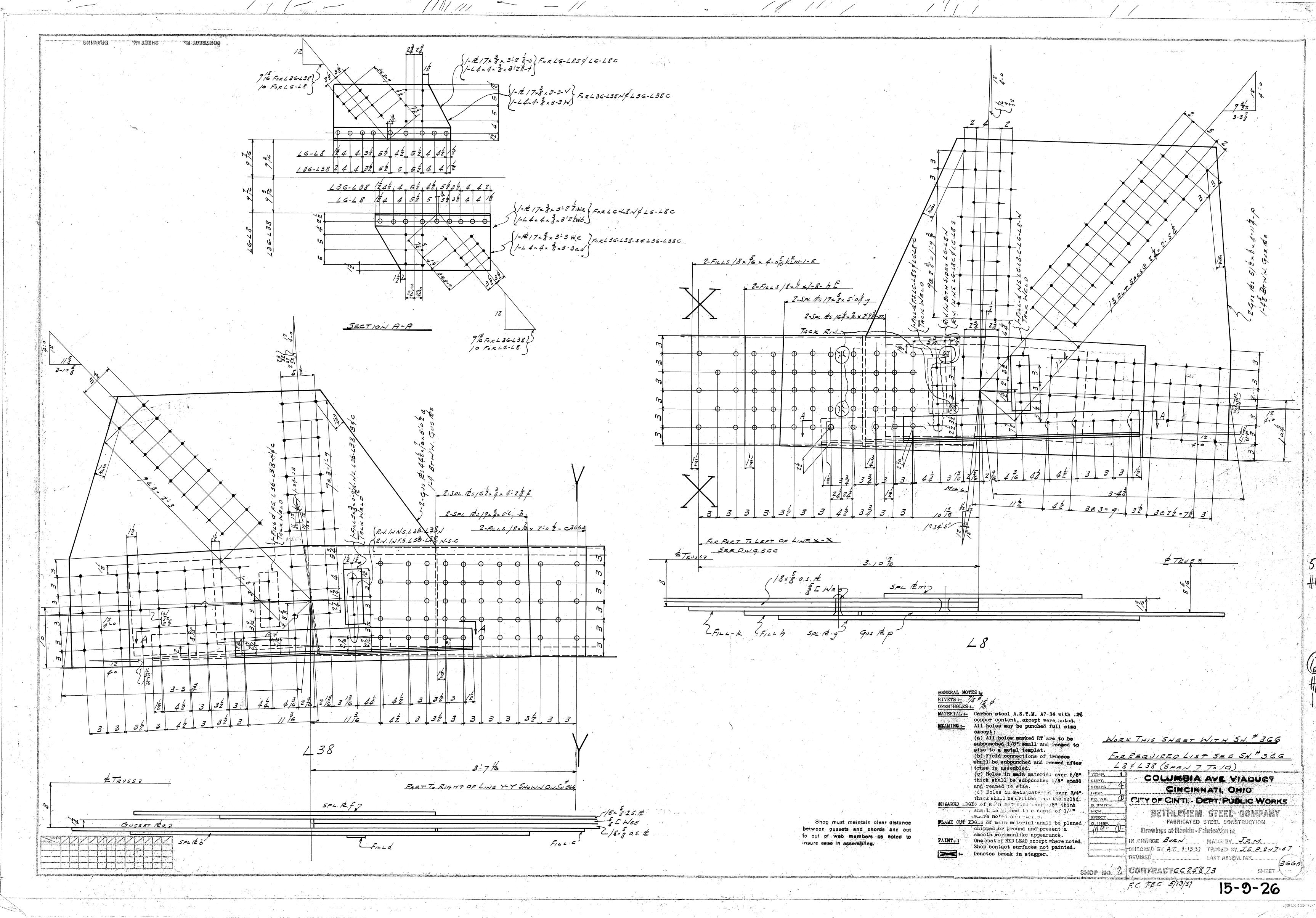


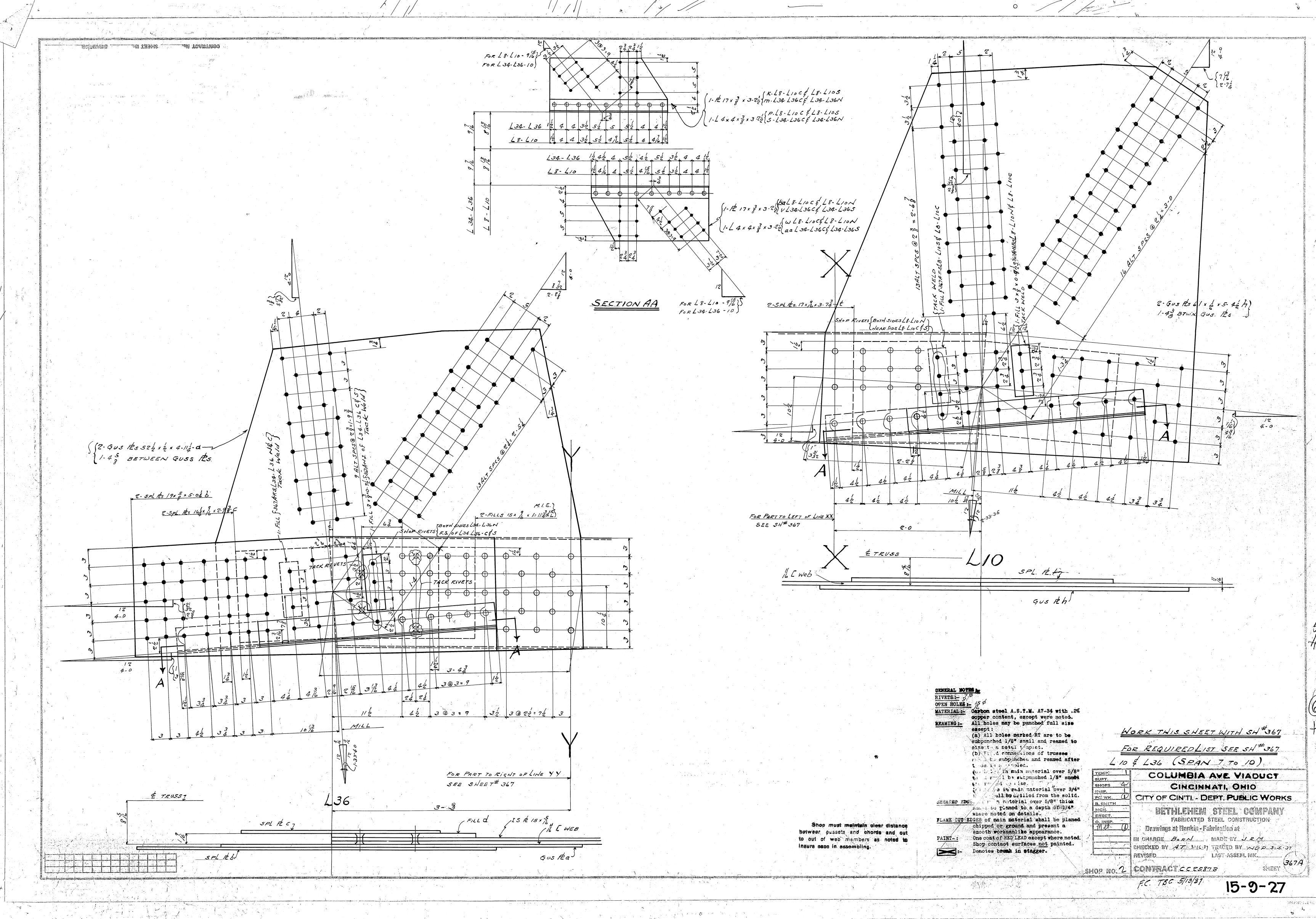


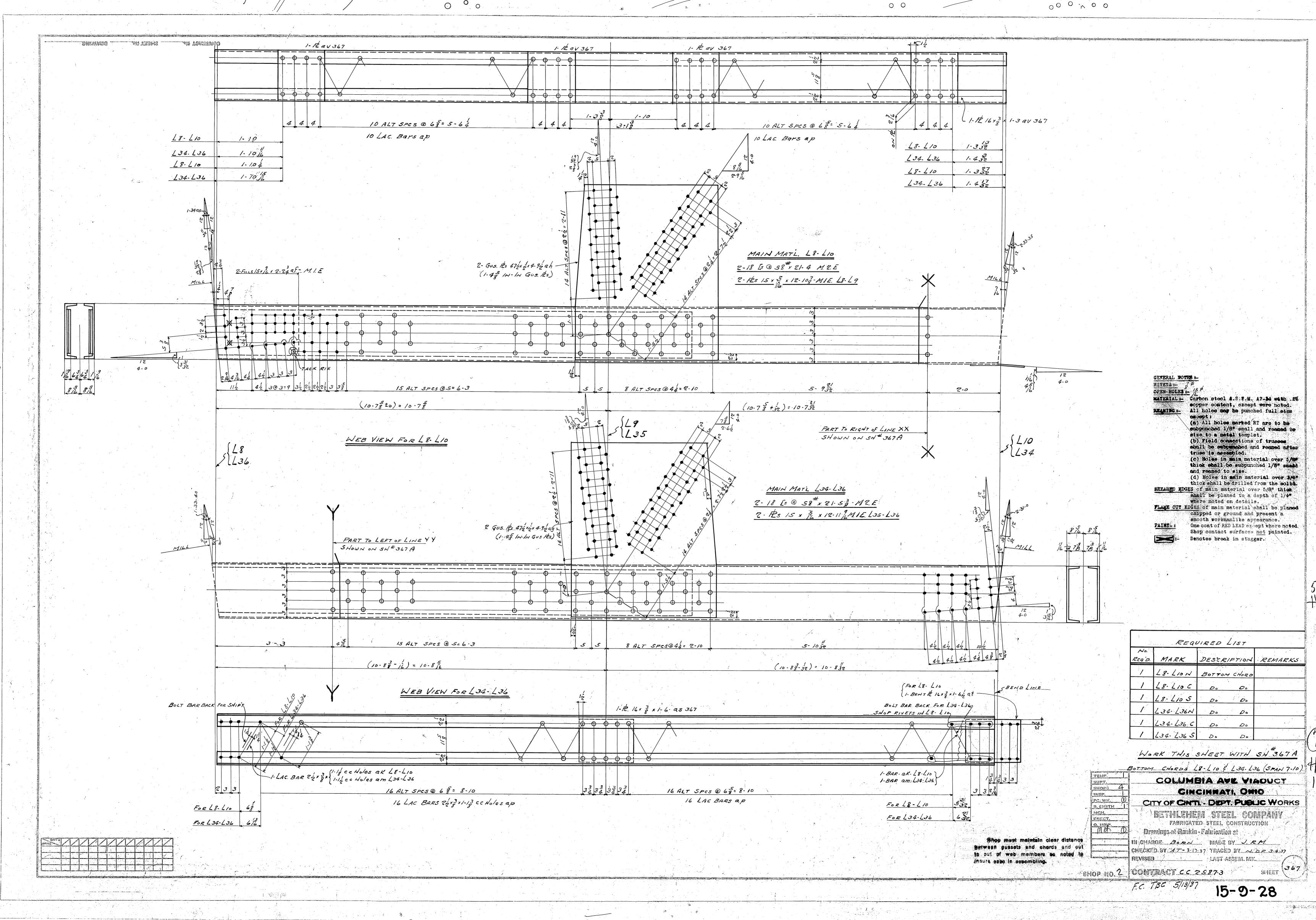


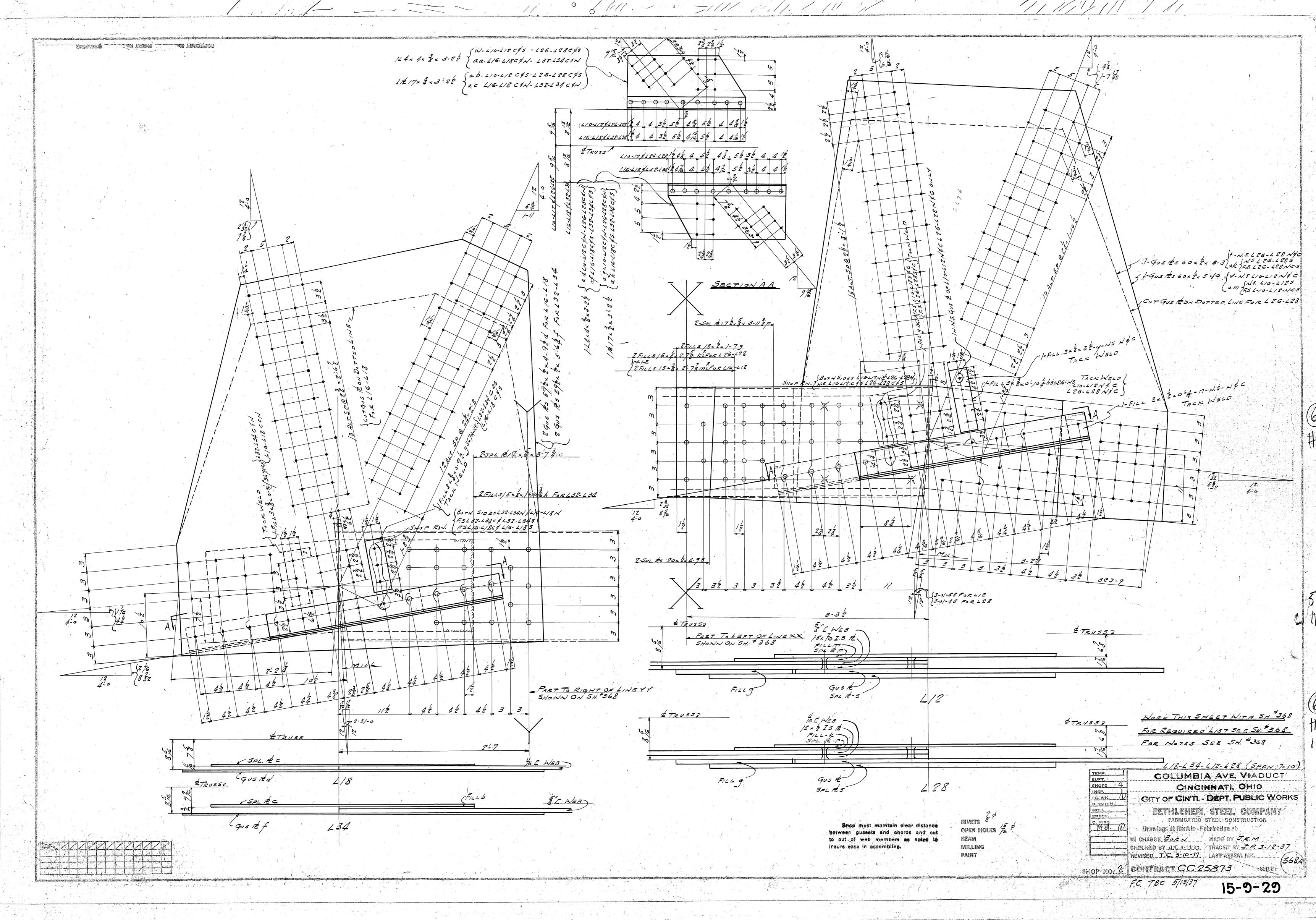
Form R-360 15-9-24

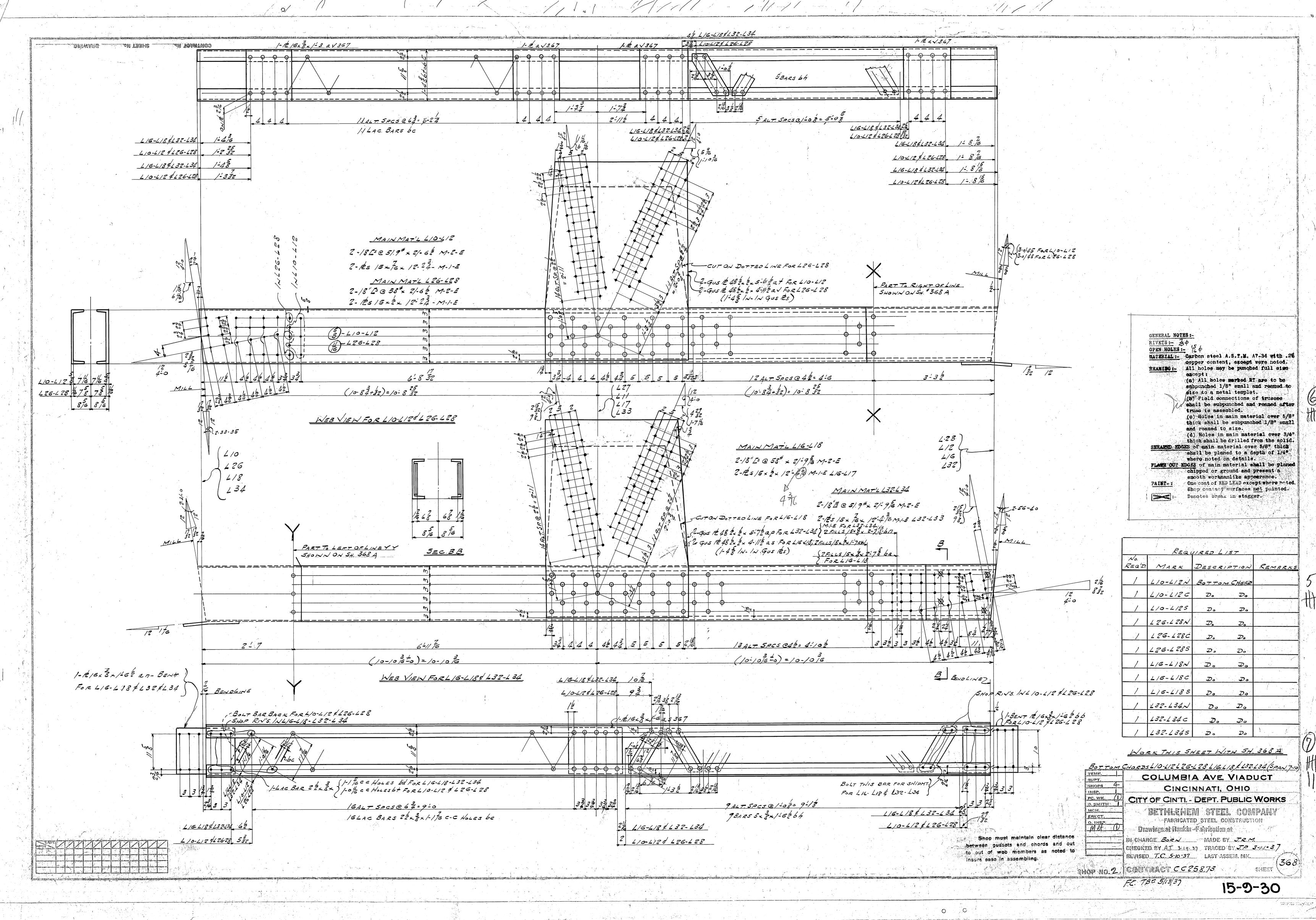


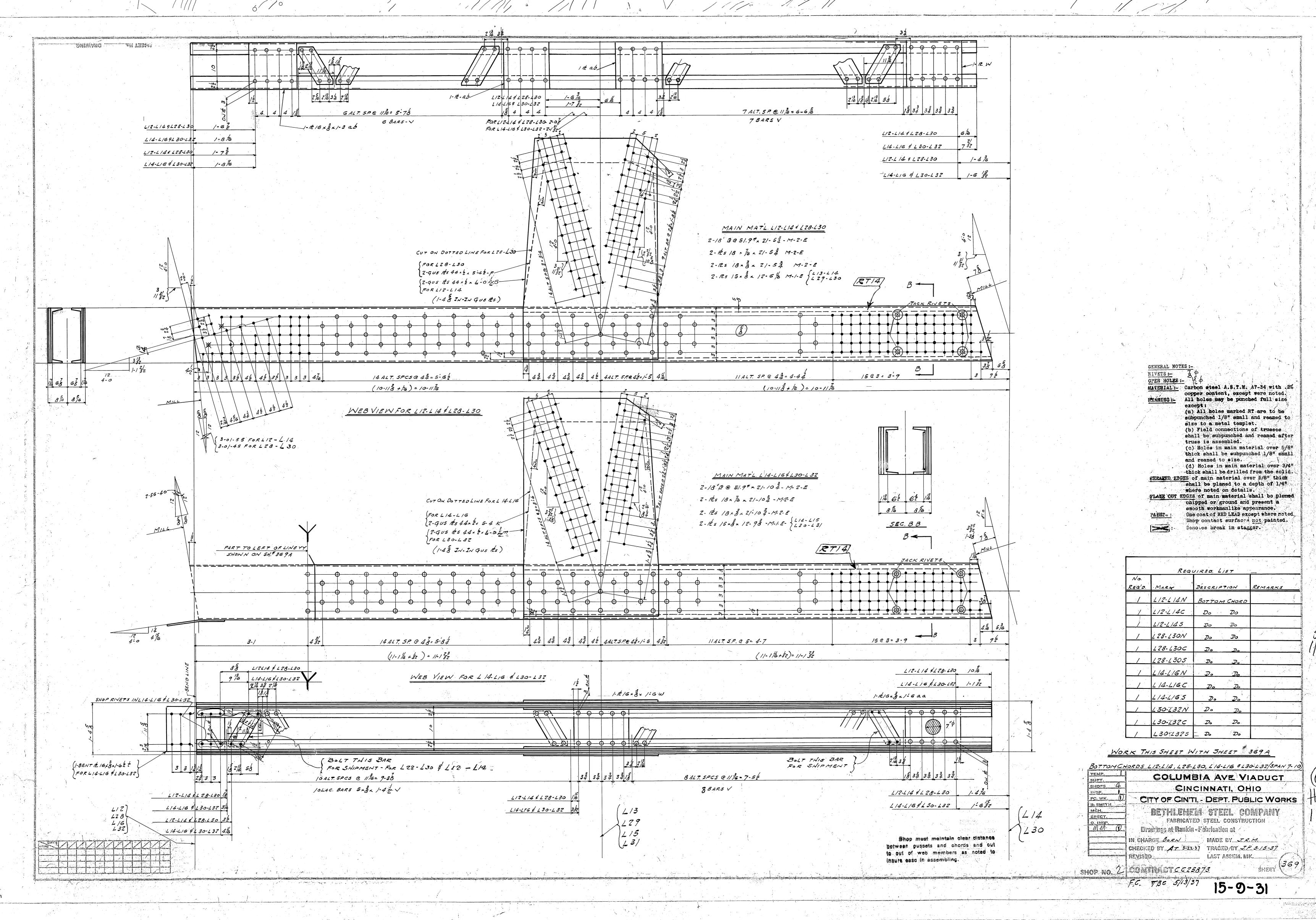


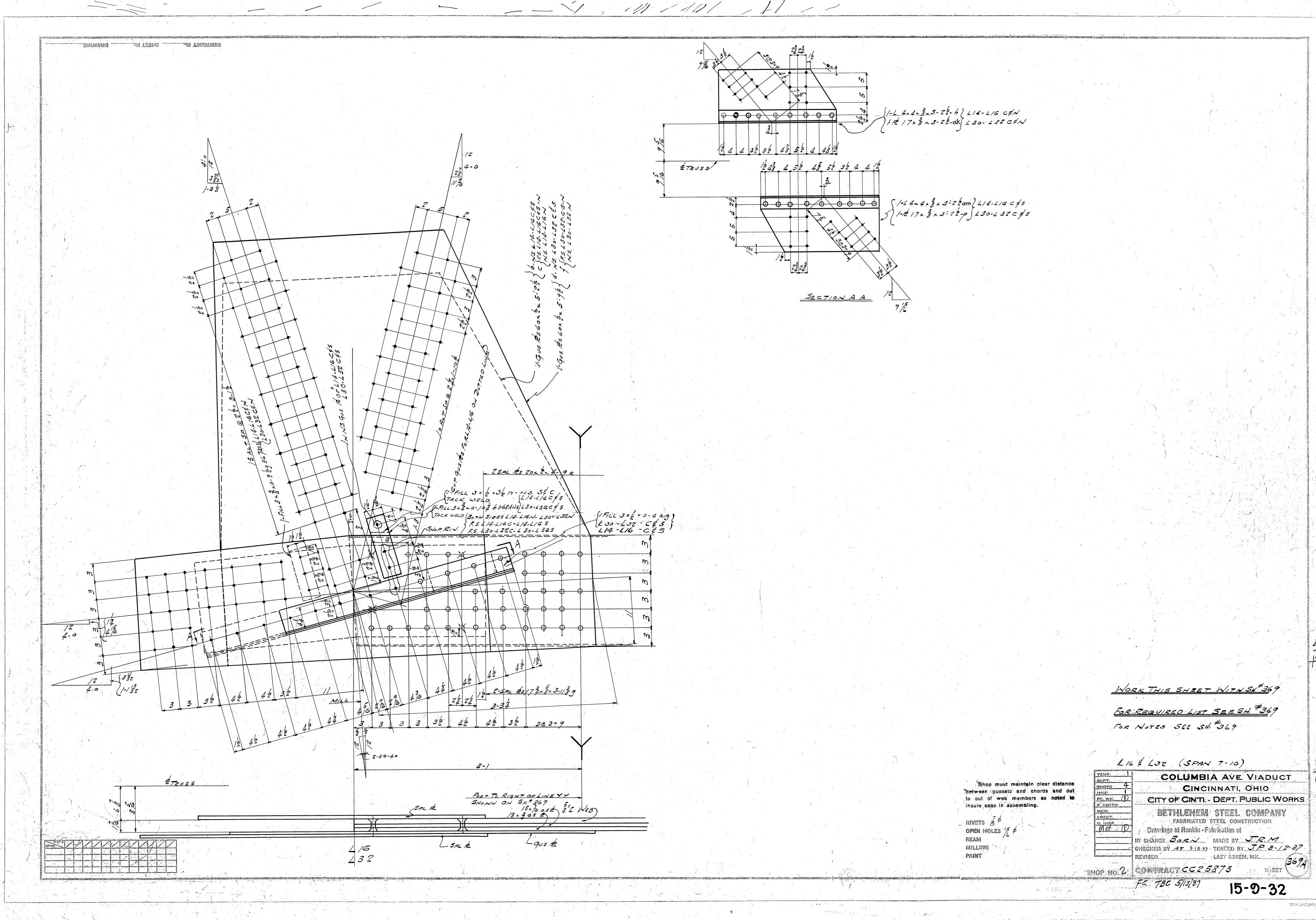


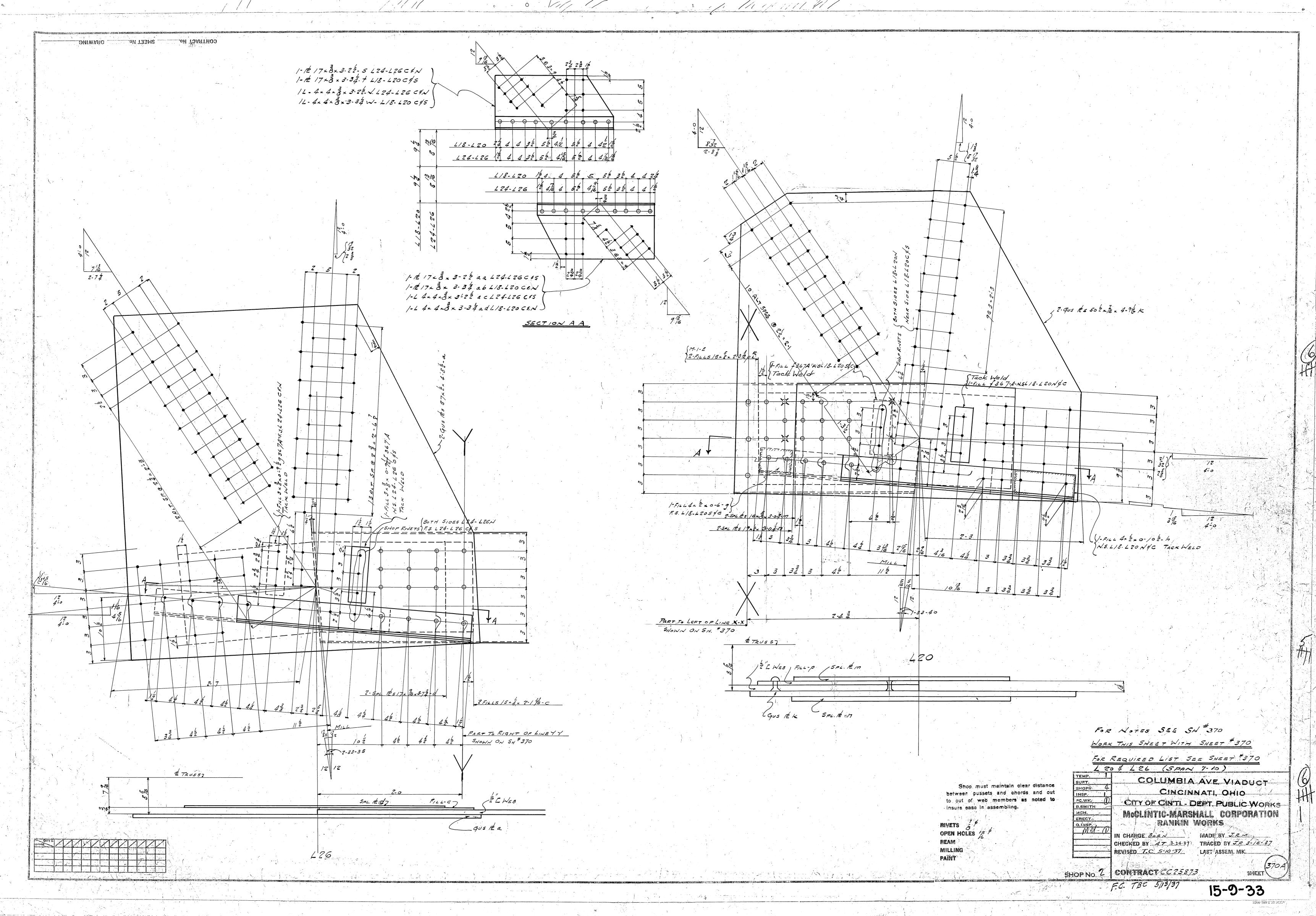


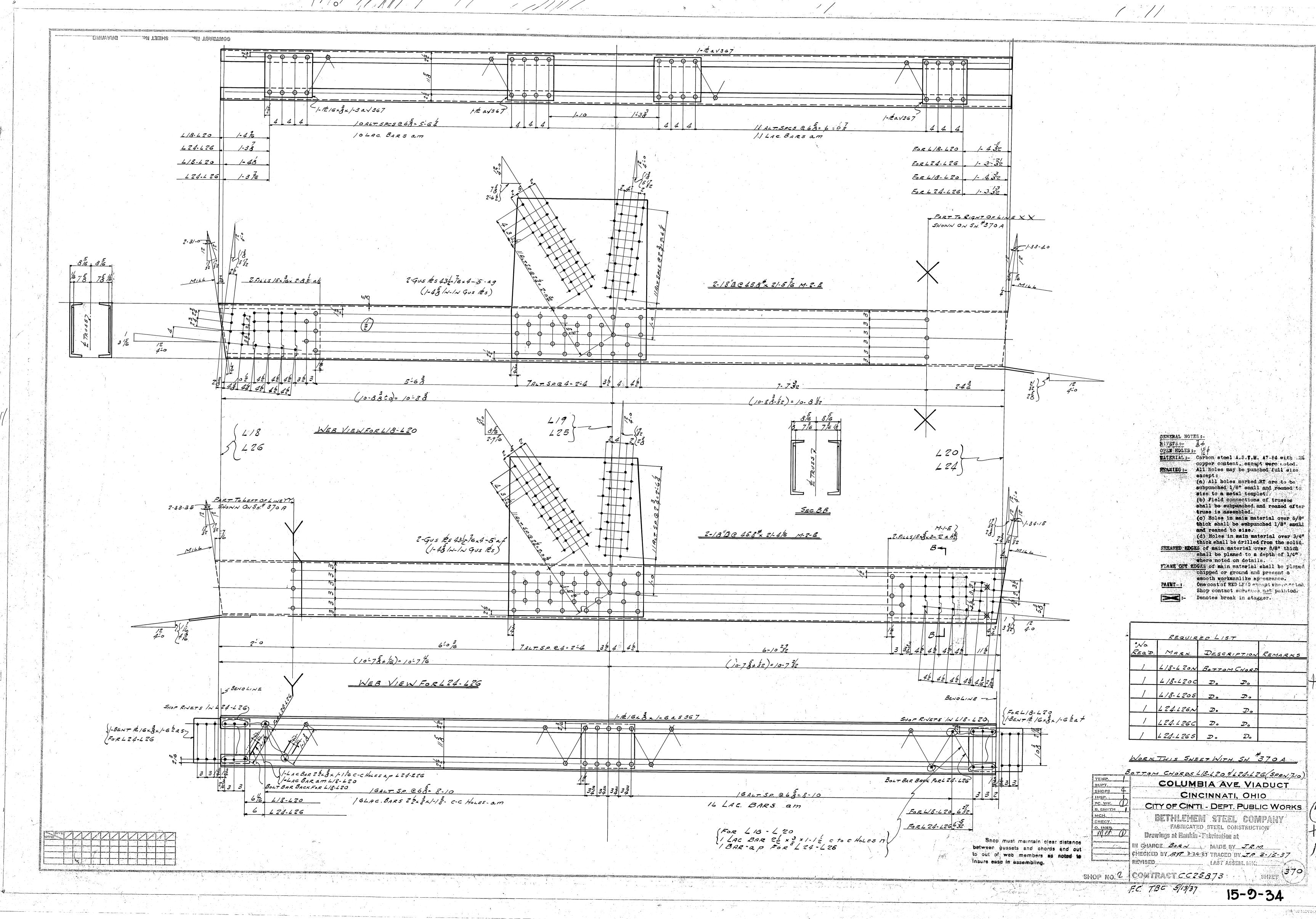


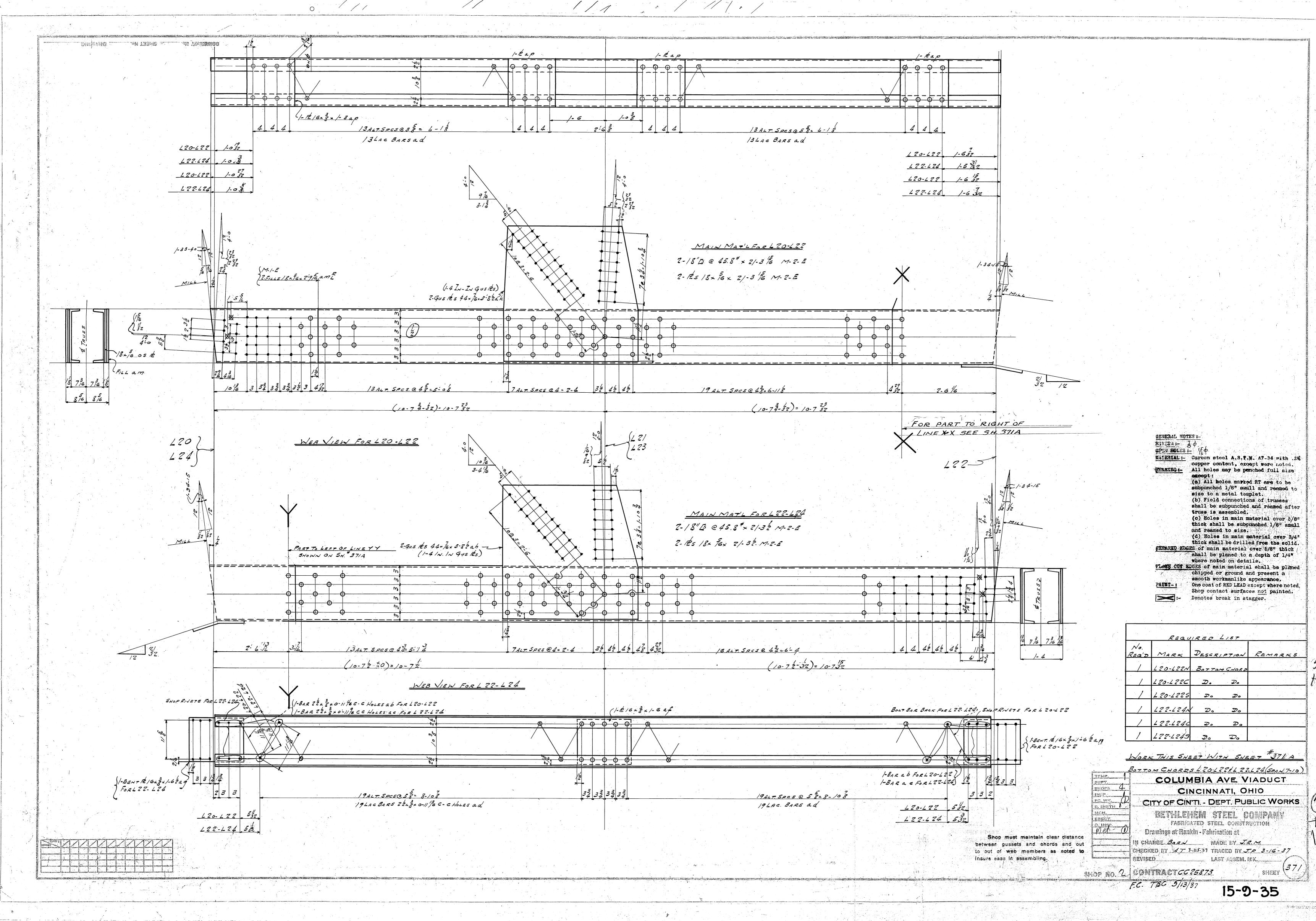


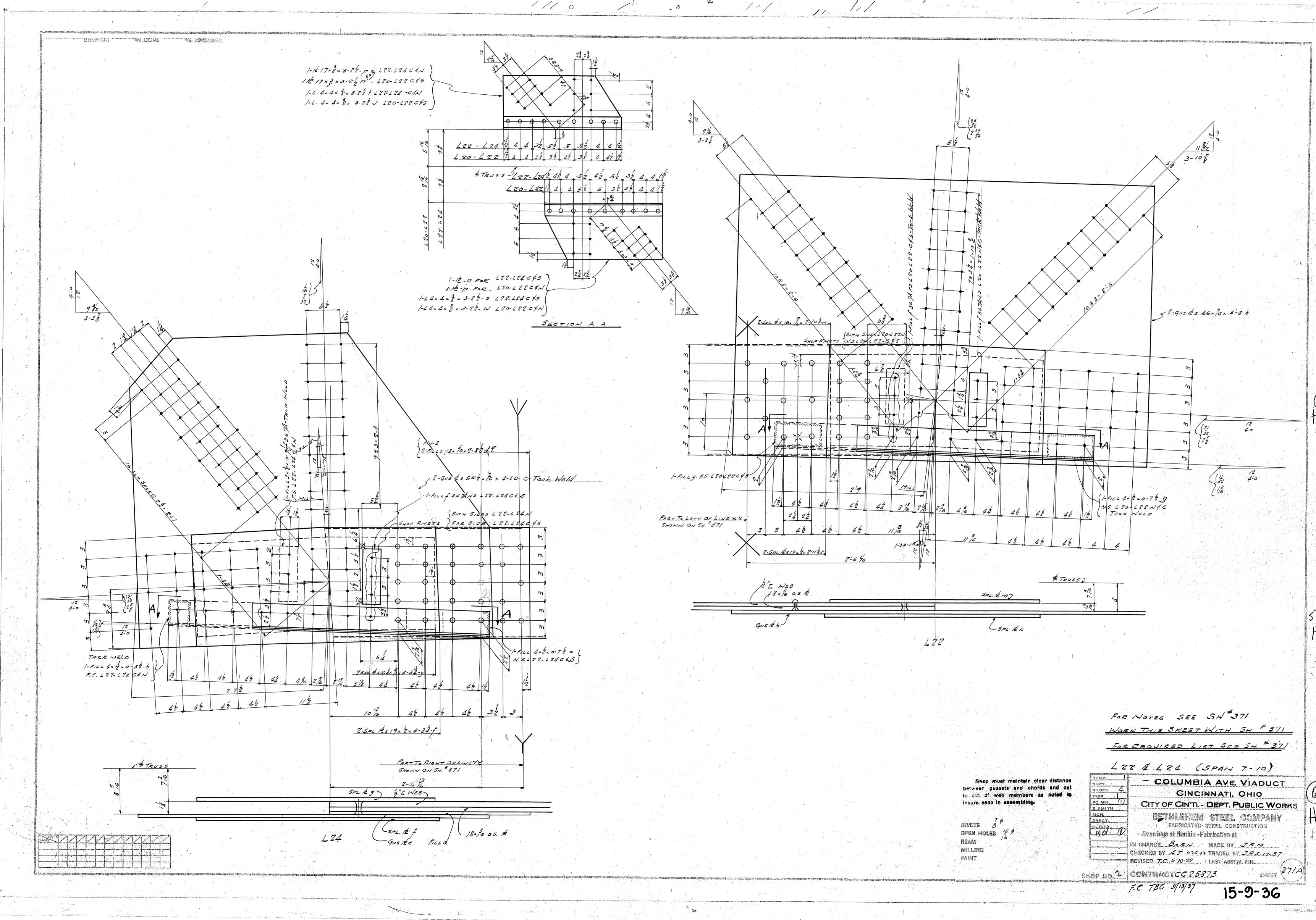


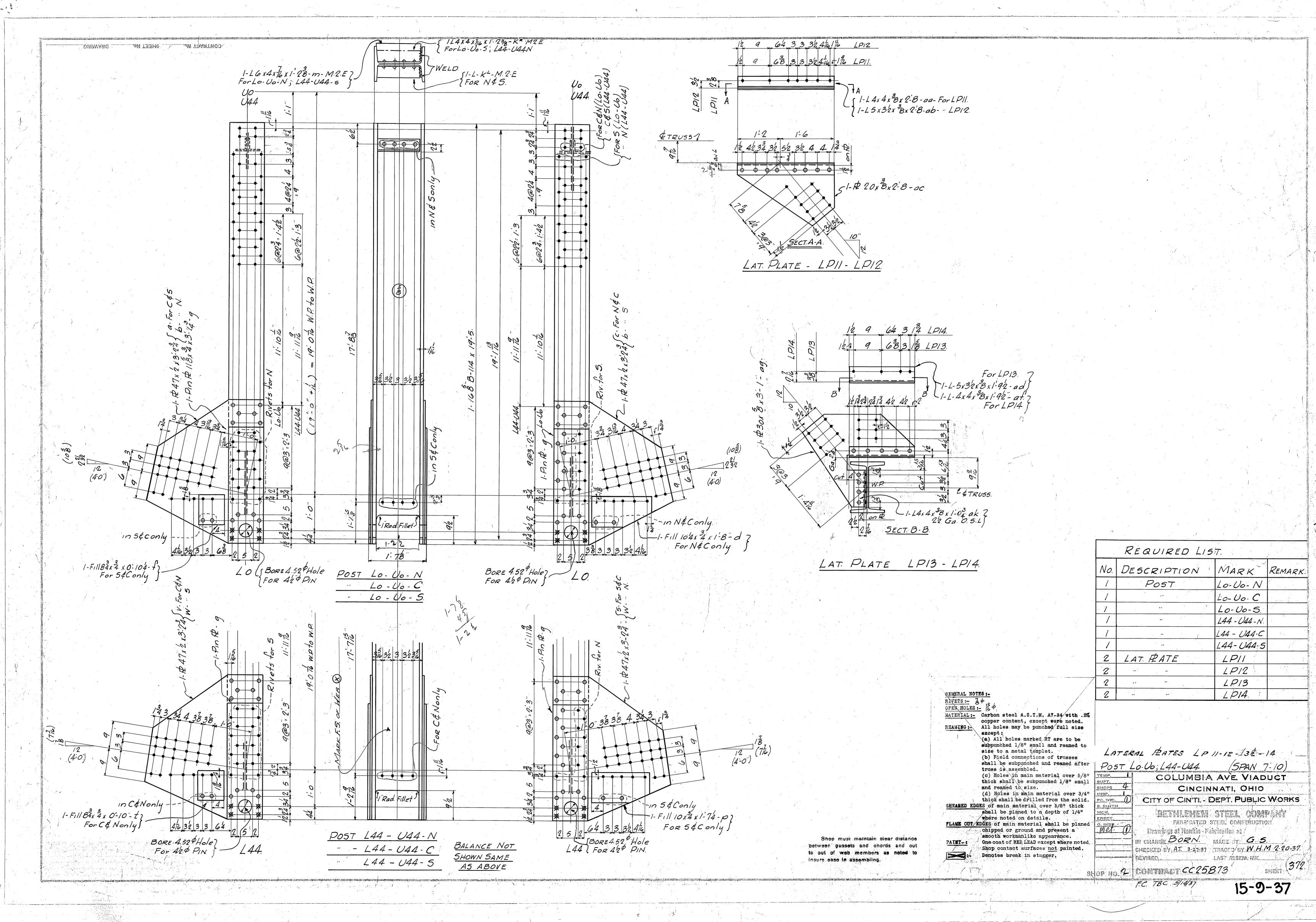


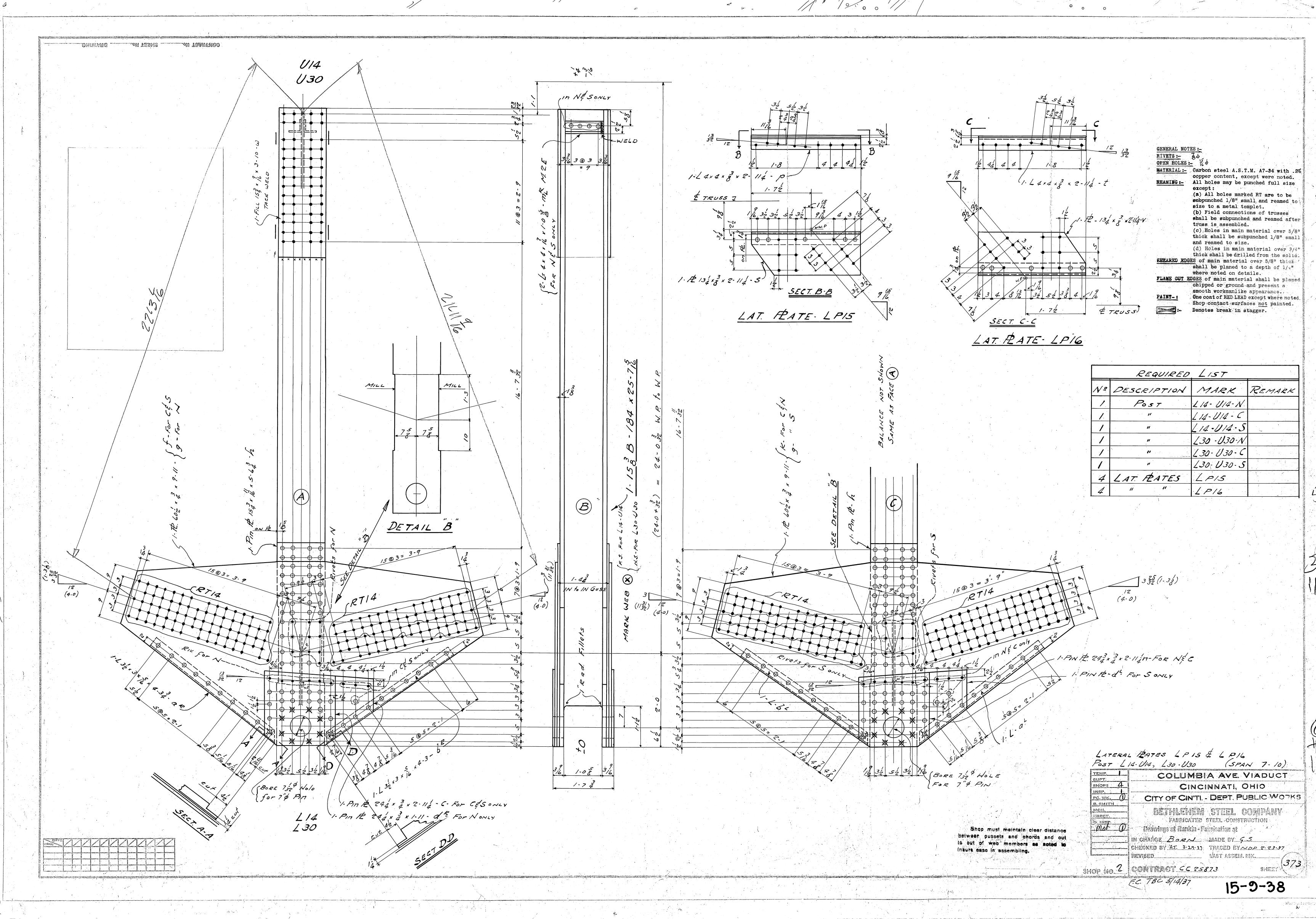


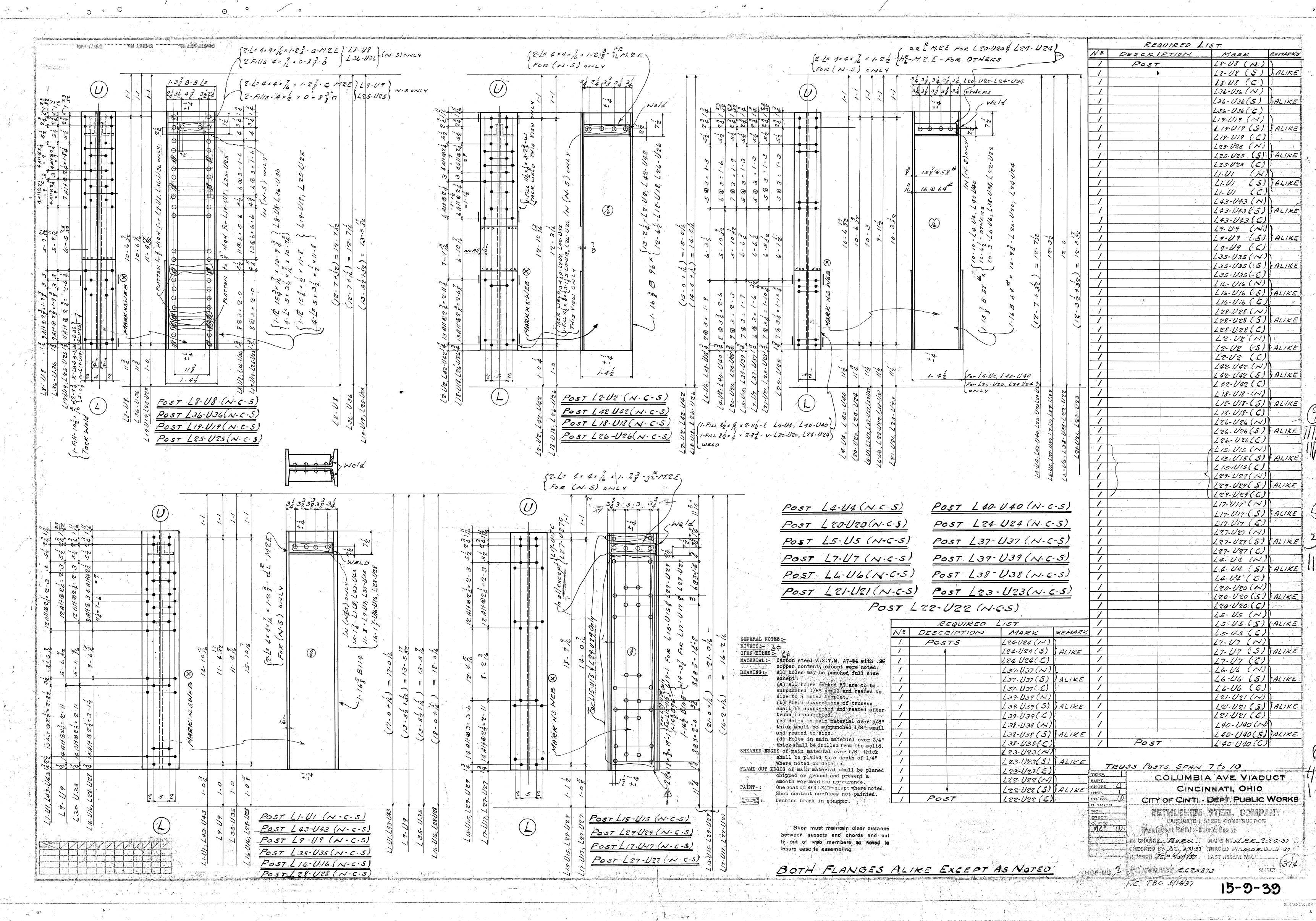


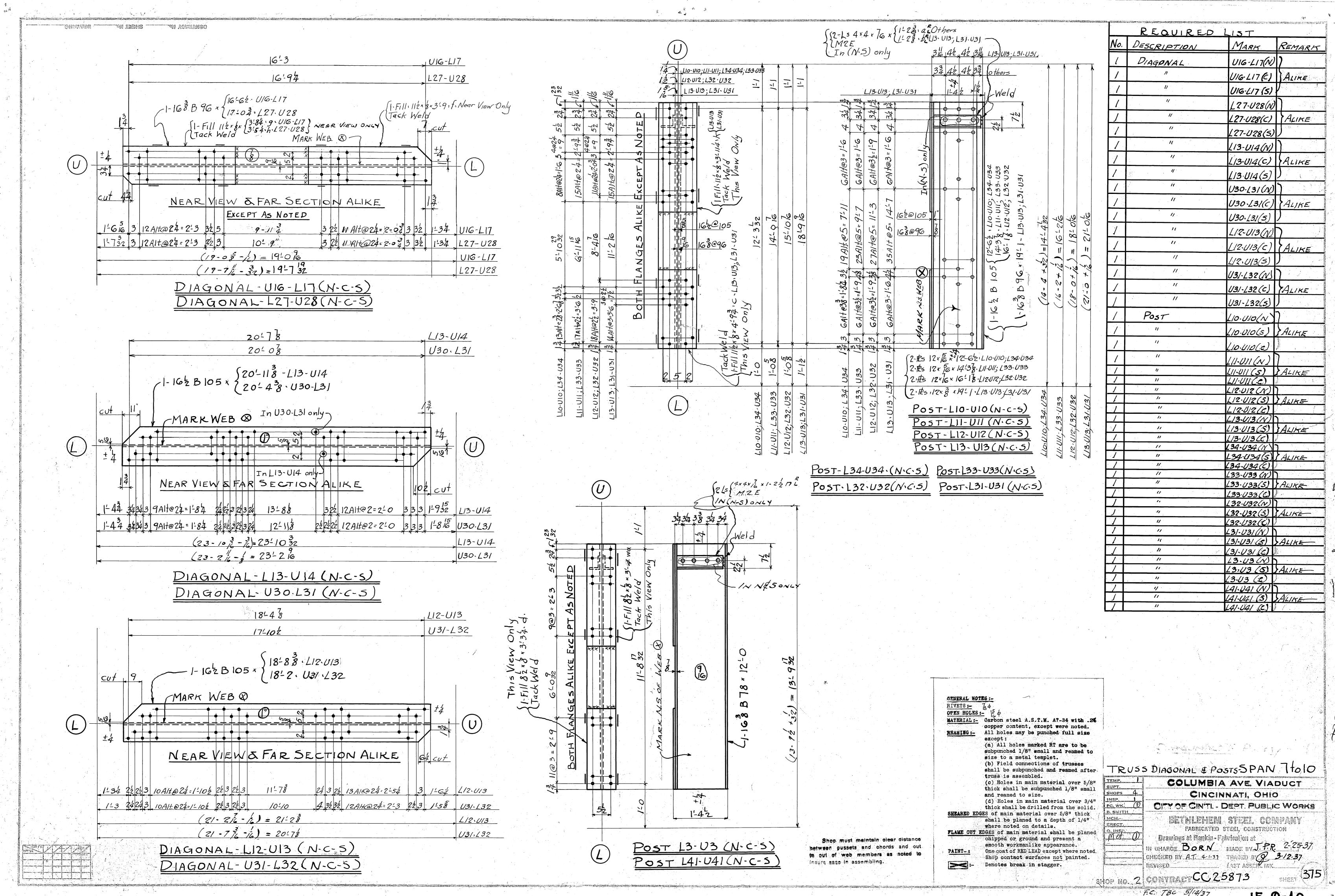






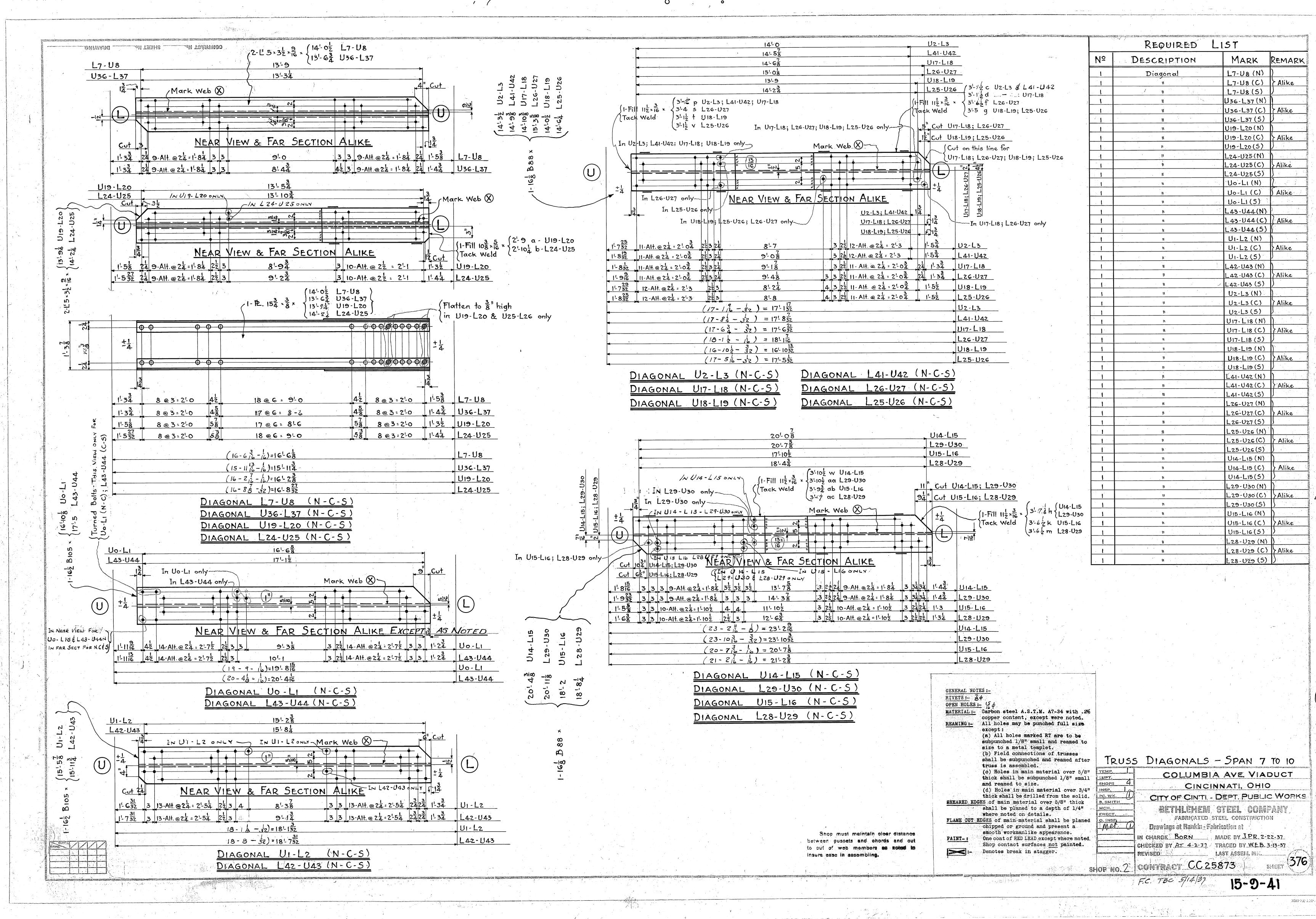


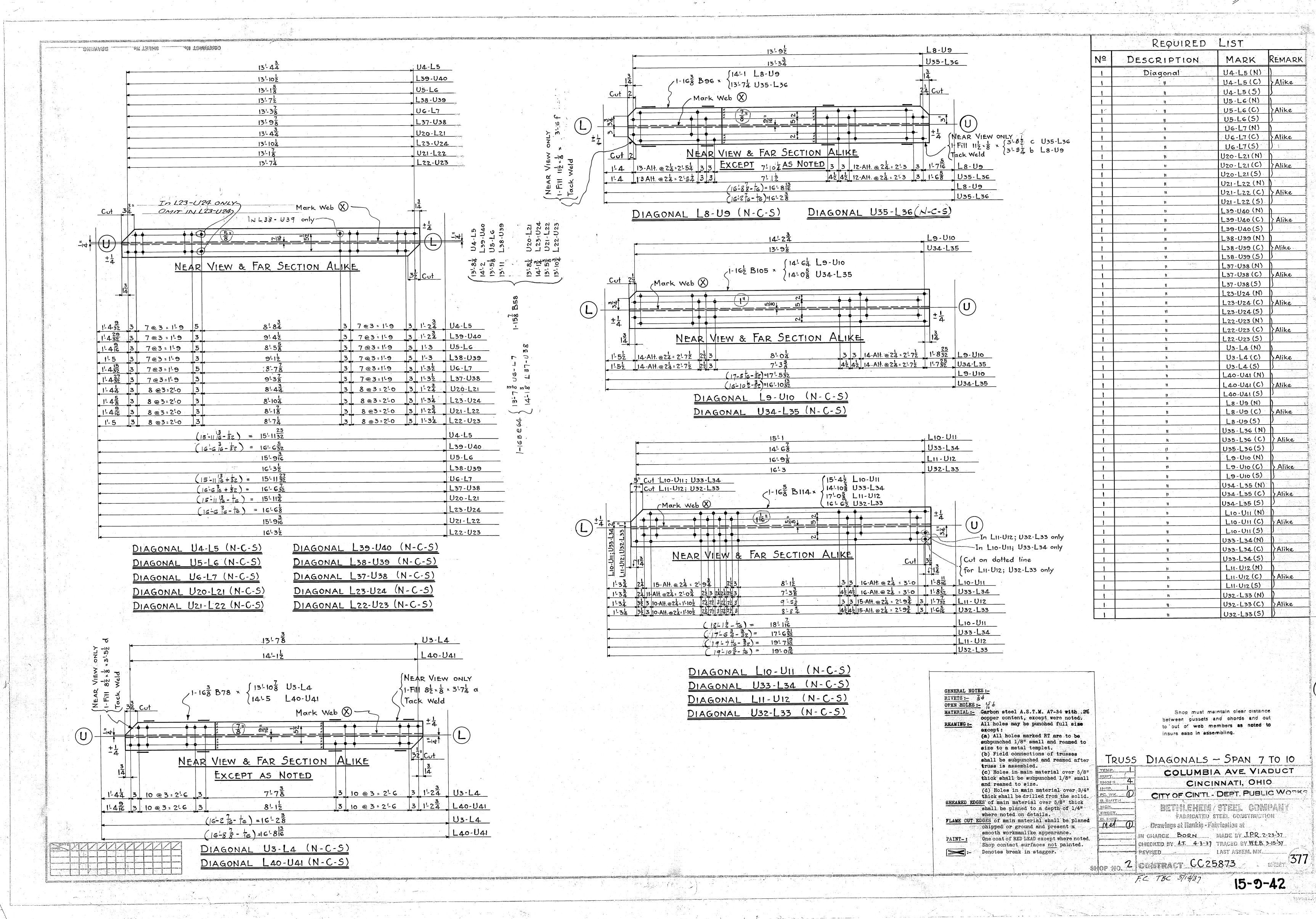


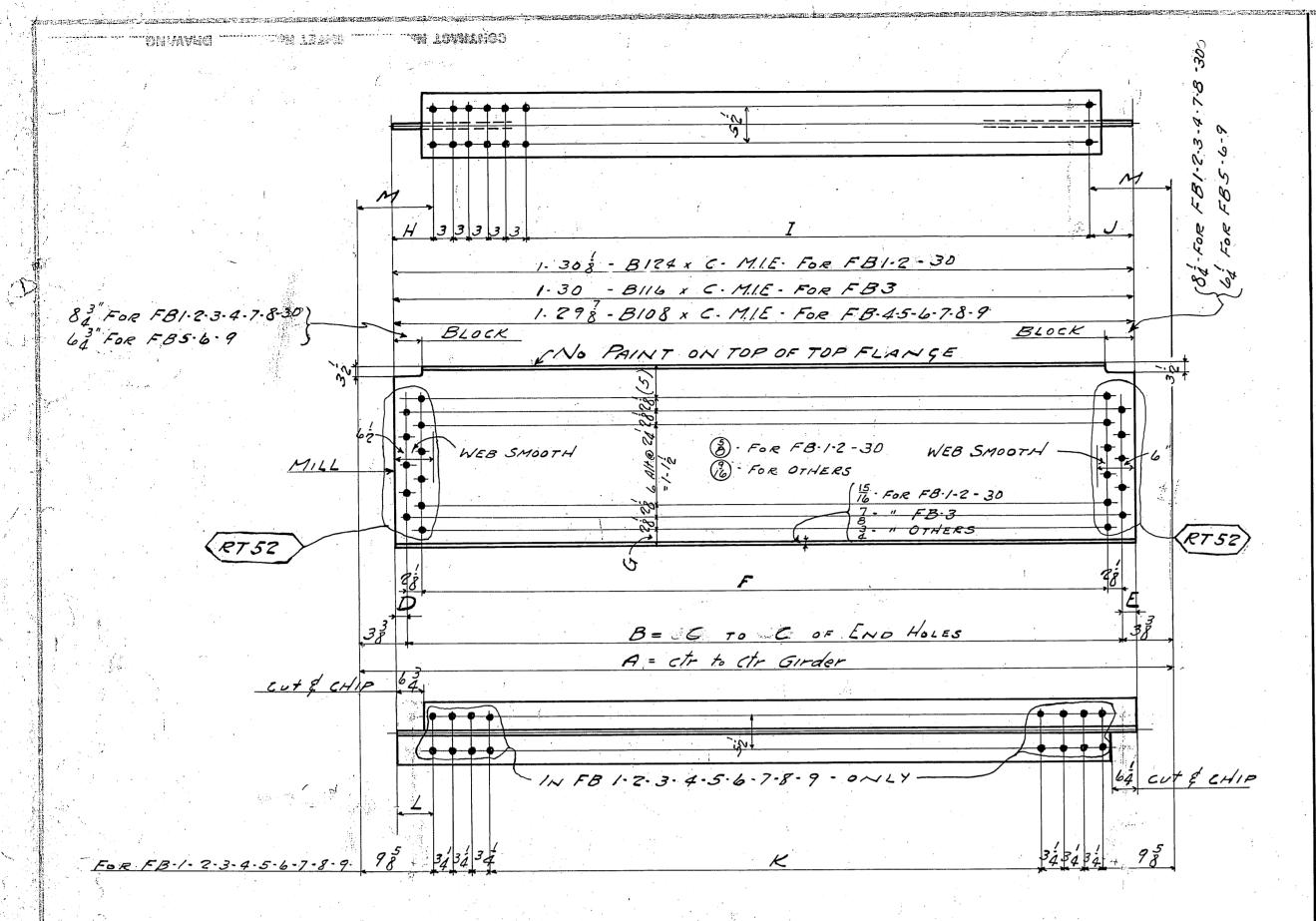


ME MITTO WAS BURN BY MODE

15-9-40

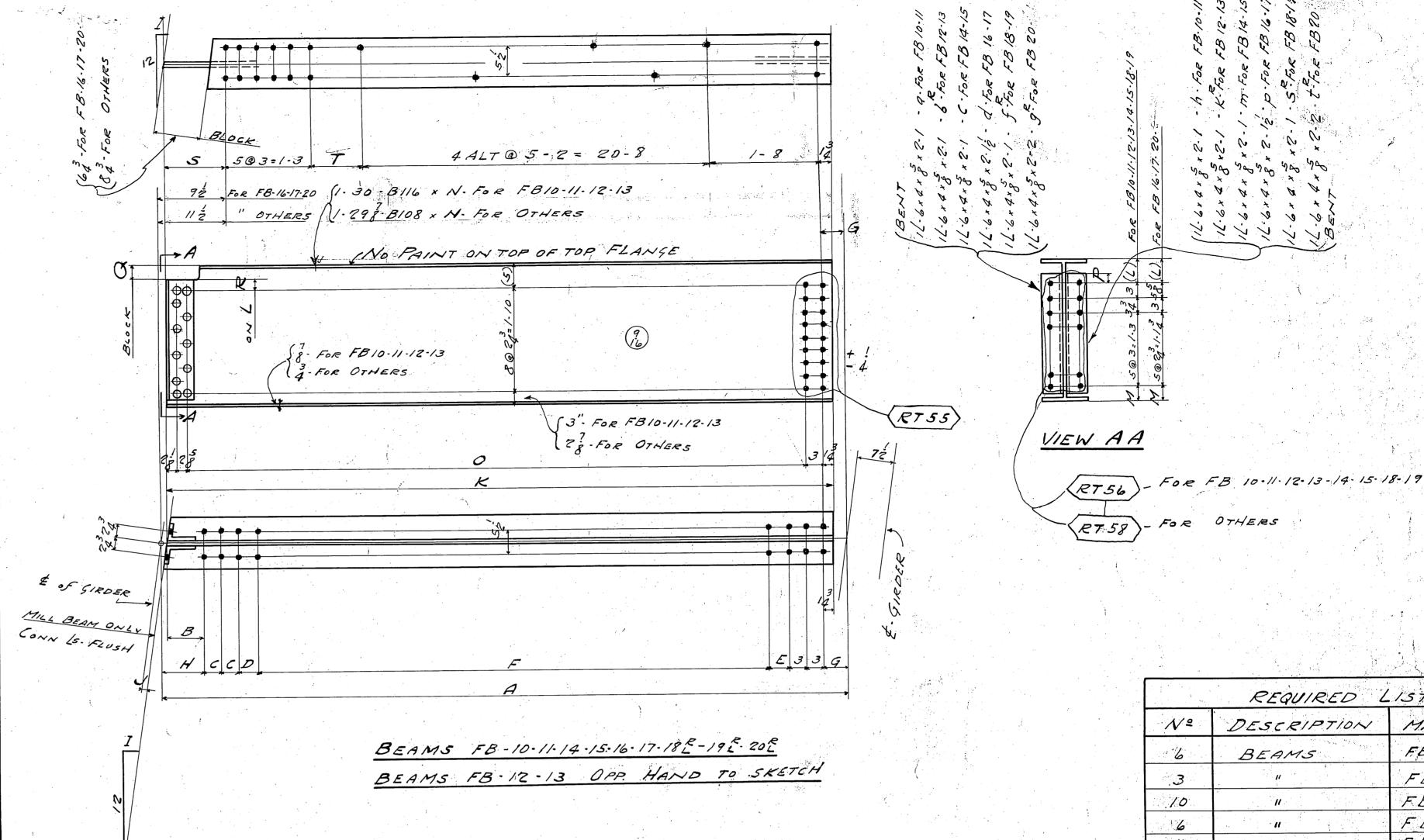






BEAMS FBIETO-FB9L FB 30

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MARK	A	B	C	DE	F	G	$\mathcal{H}_{-}$	I	<b>\</b>	K	_	M
FBI	27.4	26-94	27-18	22 18	26-5	الج ج	105	24-2	10	24-14	8 4	112
FB2	27-4	26.94	27:18	2/6/15	26-5	38	10/6	24-2	10/6	24-14	8 16	11 2
FB3	26.9	26-24	26-62	28 18	25-10		102		10	23.64	88	112
FB4	25.3	24 - 84	25.02	28 18	24-4	28	102	22-1	10	22-04	8 8	11 2
F85	26-2	25-74	26-0	28 28	25.3	7	8.3	23-4	84	22-114	8 8	9 2
FB6	26-2	25-74	25:1/3	23 28	25.3	28	82 !		84	22-114	88	9 2
FB7	26.2	25-74	25. 1/2	23/8	25.3	28	102	23-0	10	22-114	88	112
FB8	26-2	25.74	25-112	22 13	75.3	28	108	23-0	98	22-114	8 4	1/2
FB9	26.2	25-74	25.113	22 2			1 2		8 2	22-114	84	92
FB-30	27-4	26-94	27-18	2 /6 / 15		38	_		10/6			1/2



					٠.										<del> </del>		· · · · ·		<del> </del>	·
MARK	A	B	_	D	F.	F	5	1	I		K	1	M	N	0	P	a	R	5	T
FB10	26.9/3	R !!	34	3 4	3	24-1	42	916	18	7	26-616	54	3	26.6 16	25.876	14	32	12	108	1-10 13
FBII	26-976		34	34	<u> </u>	24-1	42	916	18	15	26.68	54	1 1 1 1	26.68		13	32	12	1016	1-10 13
FB12	26-916	- 5	31	34	3	24-016	,	9,2	1/16	?	1/ -	54	3	76-6	25-8 16	14	32	は	108	1-,10.16
FB 13	1			34	3	24-016	4.1	9 %	11	15	26-58	/	3	1	25 88		3 ž	12	10 16	1-10 16
		8 8	1	1	1. 1. 1.	24.04	42	9 %	11	7	3-		1	26-5 16	25-78	-	32	12	10 8	1-10
FB 15	26-9	8 16	34	34	3	24.04	,	9 2	14	15	26.5 16	1		26-58	/3		N	12	10/6	1-11:0
		3	3		<u> </u>	73-0/6	2/6	92	7	3	25.5 %	7/	3/6	/	74.7 16		2 15	216	83	11/16
FB 16	2	/		32	14. 157.5	,-	7	1	7	1	,	7	1	,	24.7/6	/	I	7/6	82	11 16
FB 17		82	3	3 2	3	23.0 16	216	/	35	/	75-3/6	3	20		24-5/6		32	1	102	8-16
	25-6 16		3	32		22-10/6	44	92	8	7		_	,			T	1	1	108	8 76
F819	25.6 16	-	3	32	3	22'-10/6	44	92	8	8		1 1	-		1 . 7	16	2/3			1-0
FB 20	25.64	88	3	37	30	23-103	24	92	2	8	25.58	4/6	3/6	75.58	24.78	1/2	14 16	1 6 /6	08	( )

REQUIRED LIST REMARKS DESCRIPTION MARK FBIR FBIL FBZ'E FB3R FB3L FB42 FB5 R FB54 FB7R FB7'L FB8 R FB8 L 18 FB9L FBIO // FBII OPP HAND FB12 OPP HAMD FB14 FB 16 FB 18 L FB19L FB20L FB 30

RIVETS:-All holes may be punched full sime

(a) All boles marked RT are to be Subpunched 1/8 masil and record to size to a metal/templet. (b) Field commections of trusces shall be subpenched and remail after truss is assembled. (c) Holes in main material over 5/20 thick shall be subpurched 1/8° same

(d) Holes in main material over 240 pols of main material over 5/8" thick hall be planed to a depth of 1/60

where noted on details.

FLAME OUT EDGES of main material shall be pleased
chipped or ground and present a One coat of RED LEAD except where noted.

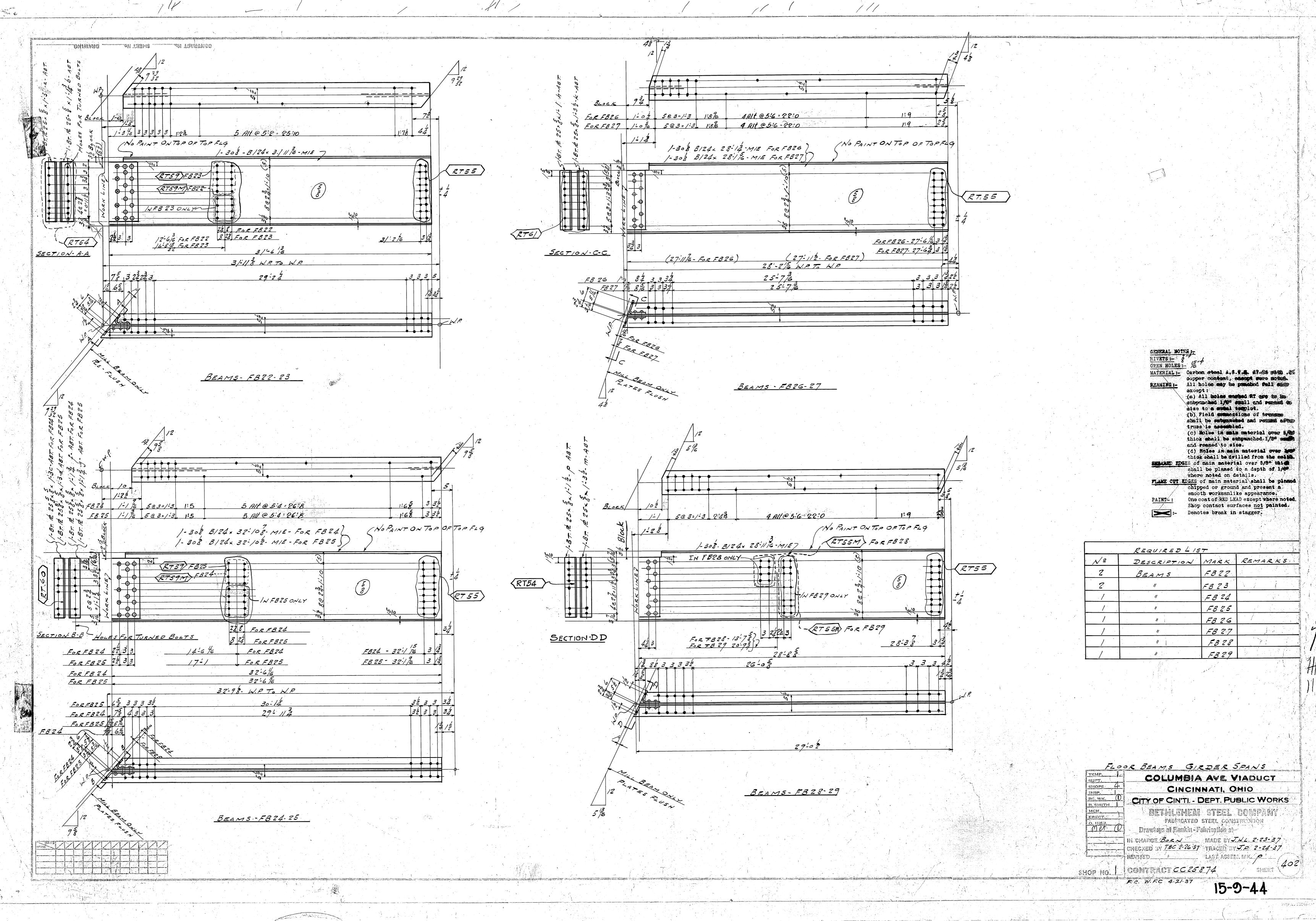
FLOOR BEAMS-GIRDER SPANS COLUMBIA AVE VIADUCT

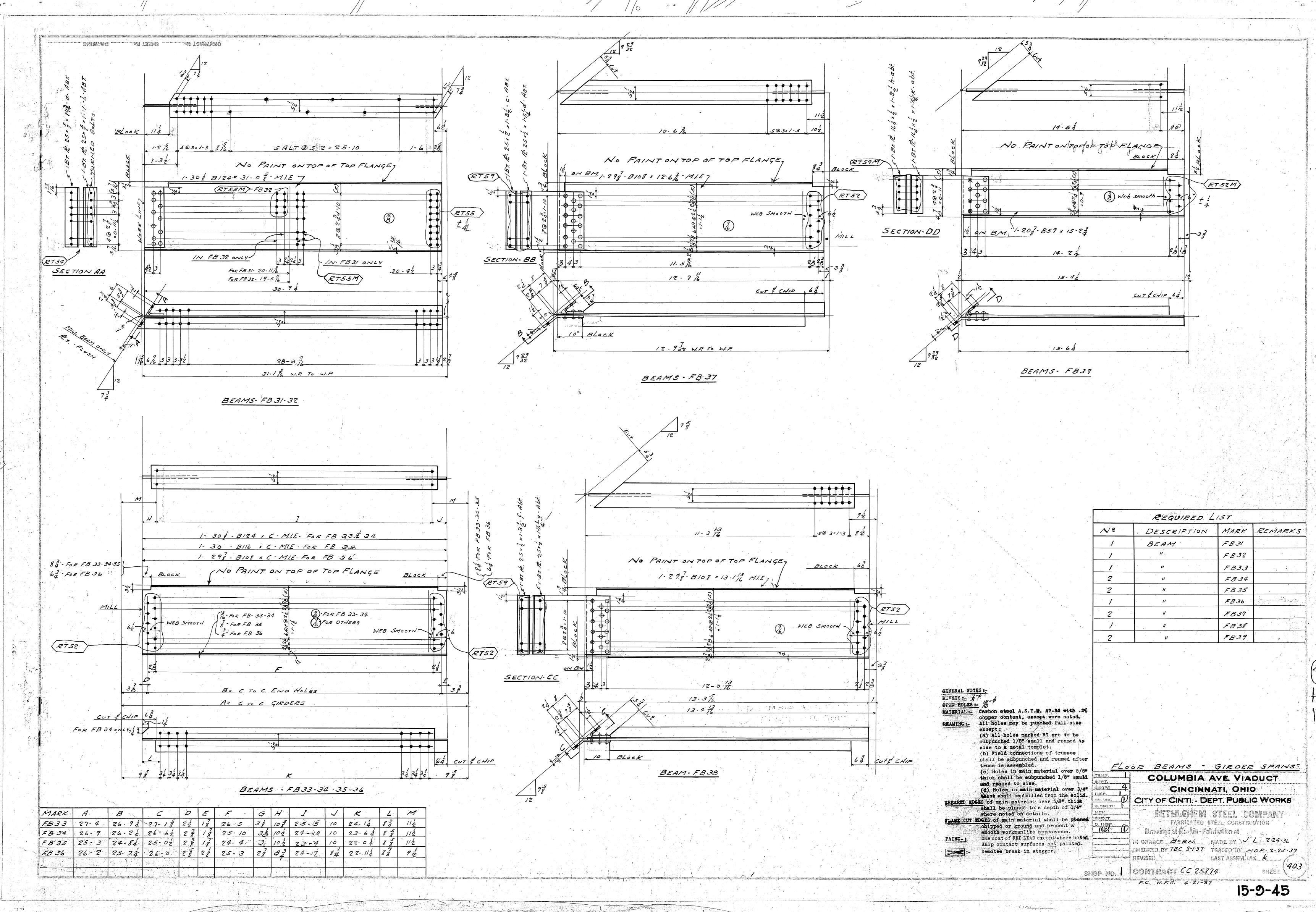
CINCINNATI, OHIO CITY OF CINTI - DEPT. PUBLIC WORKS

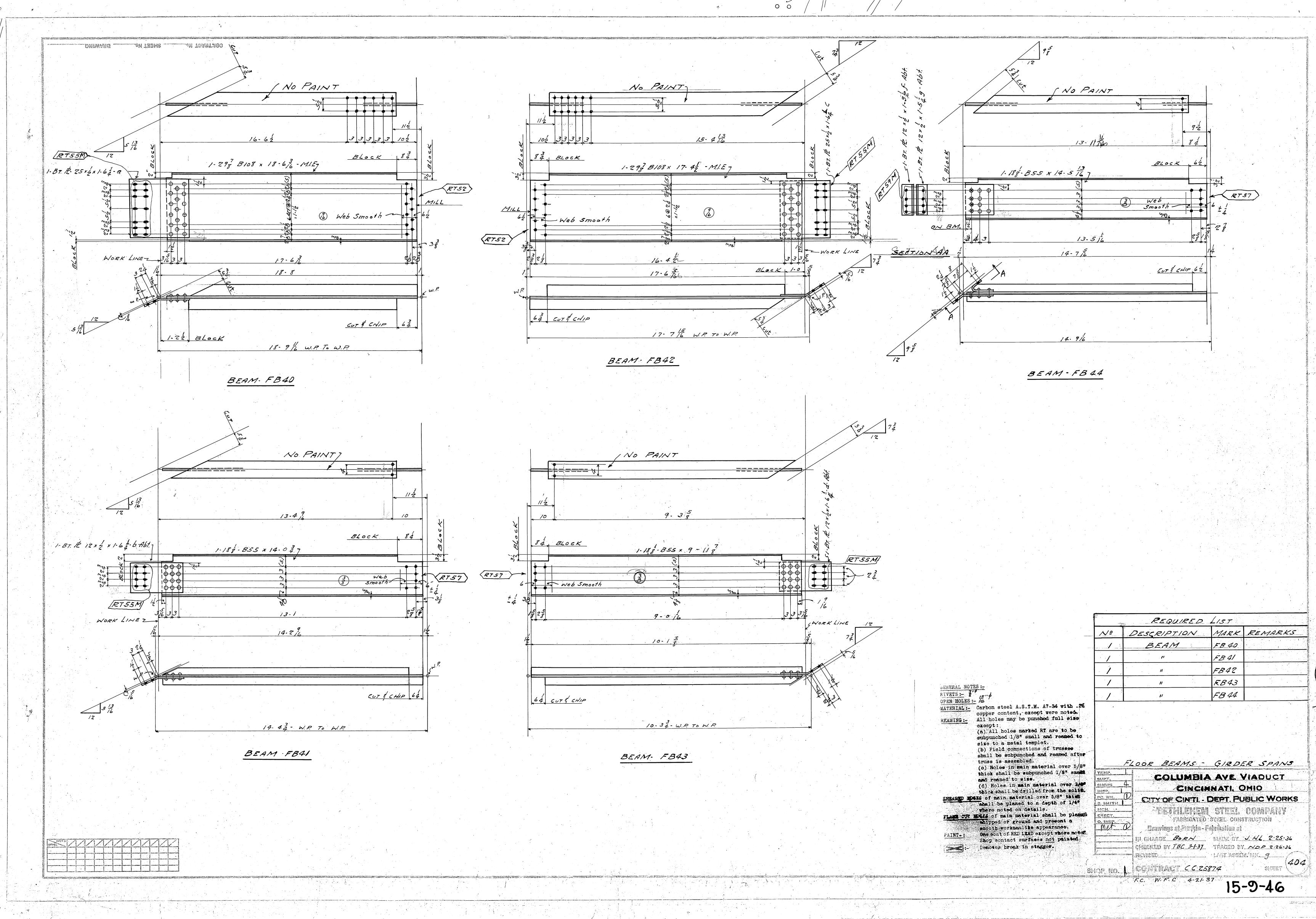
FADRICATED STEEL CONSTRUCTION Wawings of Caukin - Fabrication of I CHANGE BORN MADE DV V N/L- 2-20-37 CHECKS TBG 2:2437 THATET IN NOR - 2:22:37

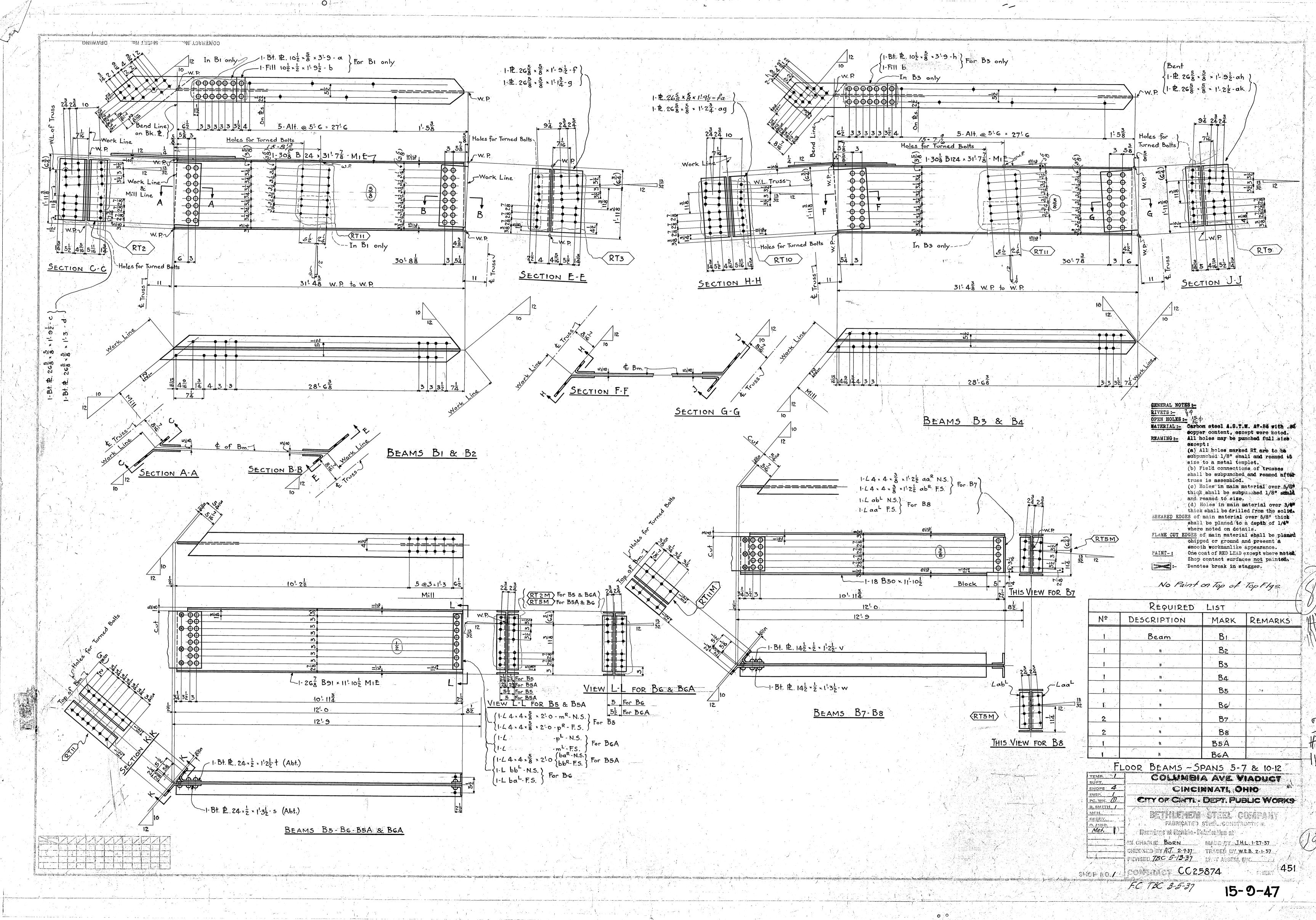
CONTROL CC C 25874

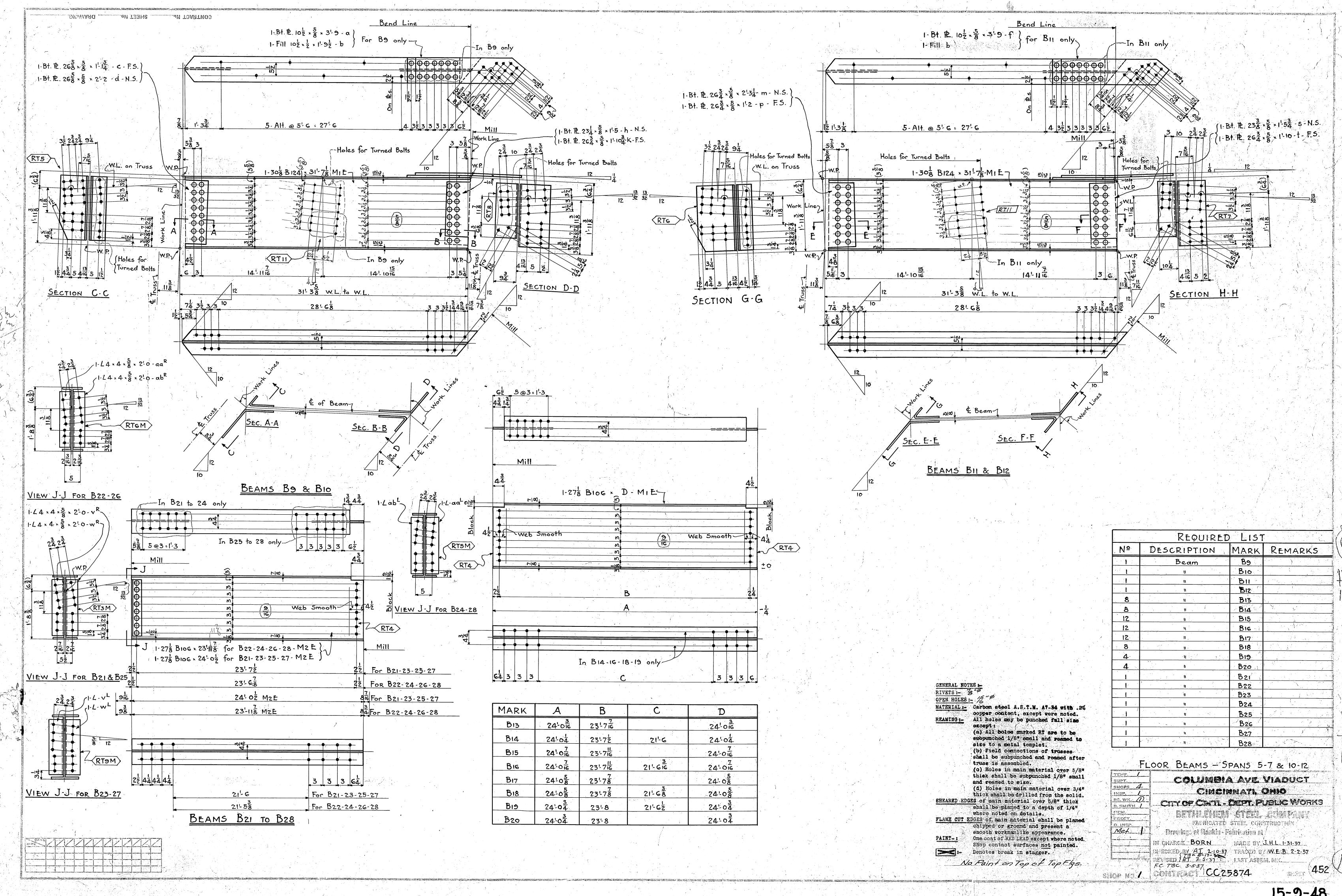
15-9-43

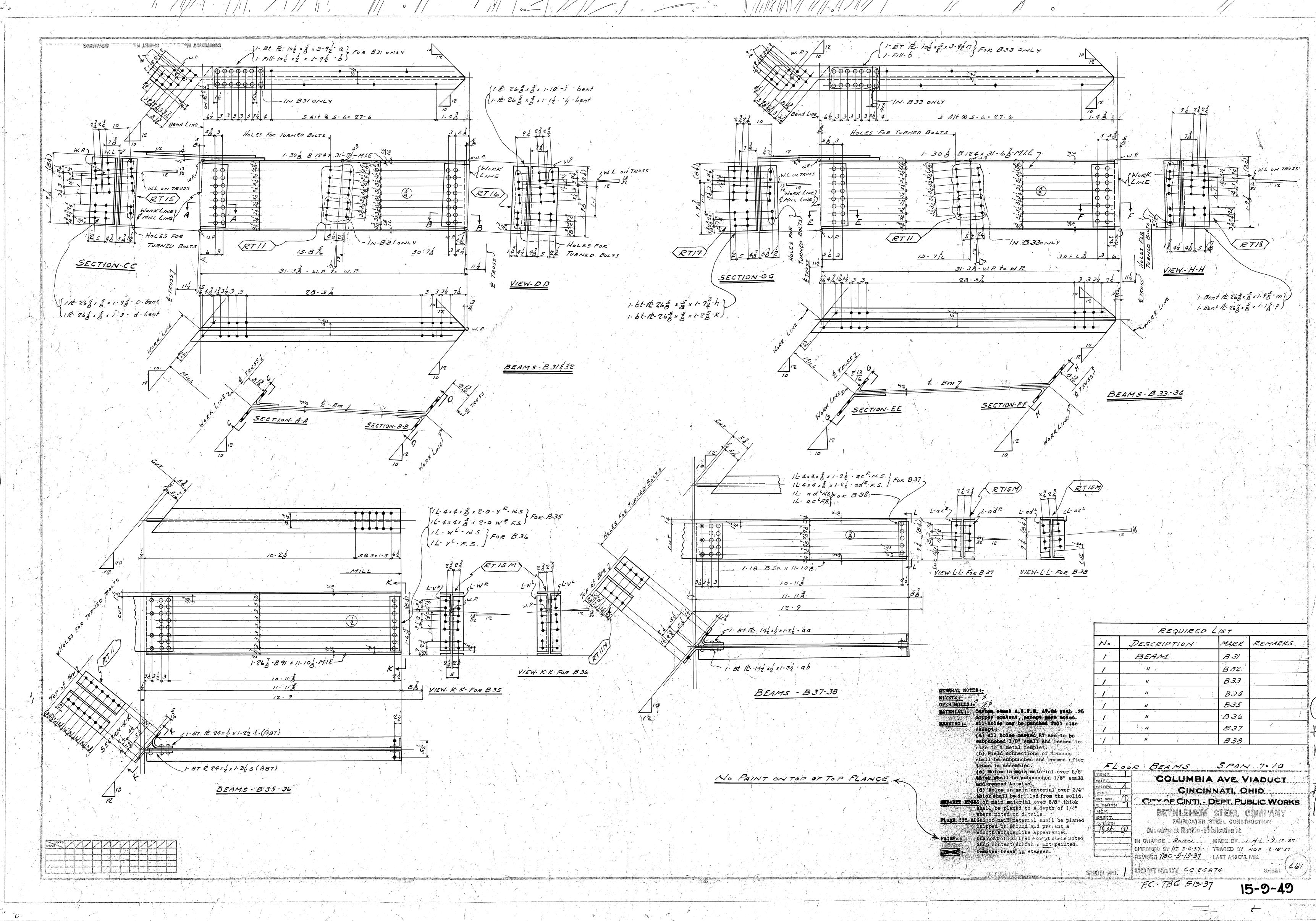


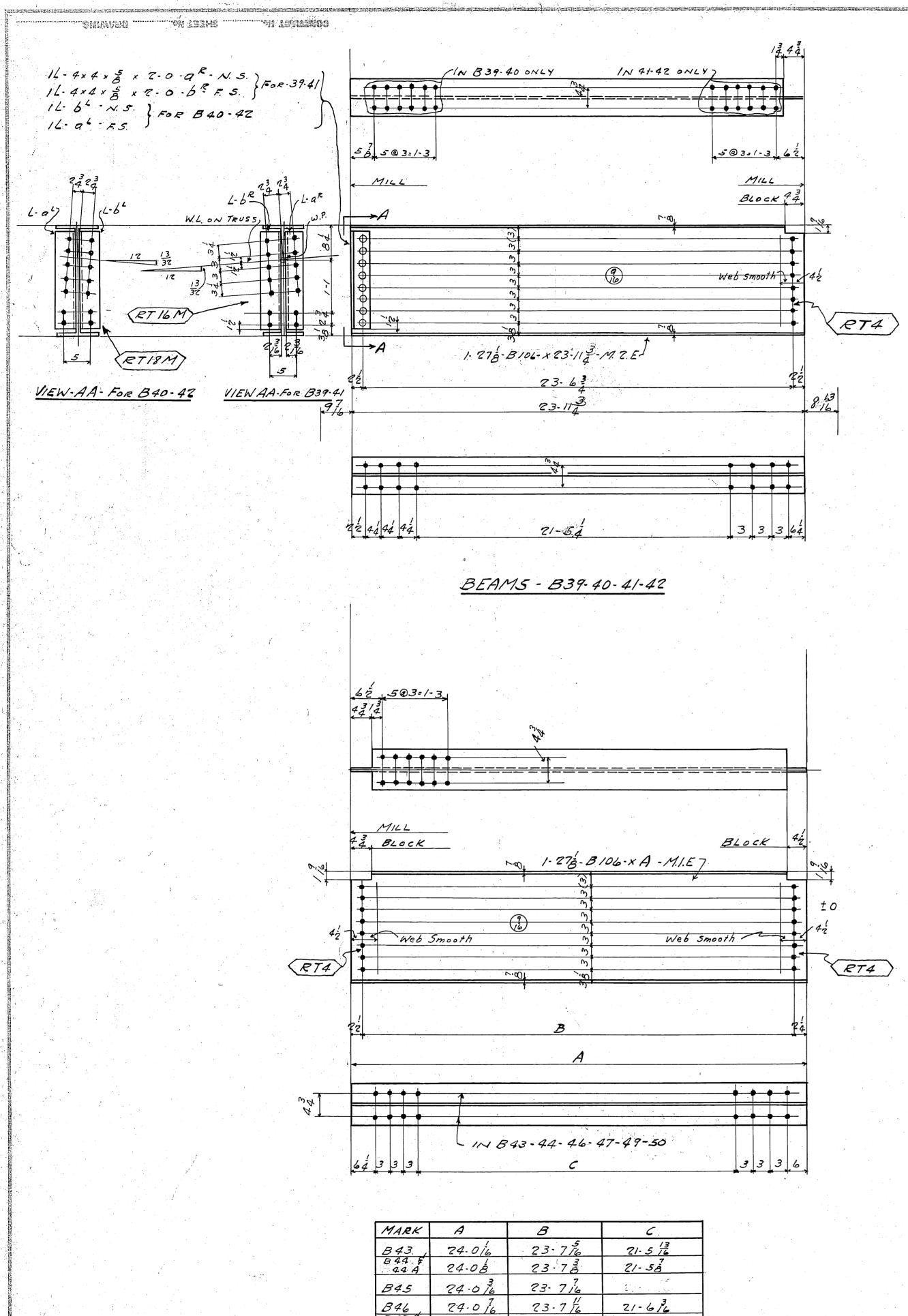












		*	
MARK	A	В	6
B43	24.016	23-716	21-5 13
B 44 . F 44 A	24.08	23.78	21-58
<i>B45</i>	24.016	23-716	
B46,	74.0 76	23.7 16	21-616
B 47 \$ _ 47 A	24-02	23.74	21.64
B48	24-0 %	23 7 13	
B49,	24.0 13	23.816	21-676
B50 \$	24.0 3	23.88	21.68

OPEN HOLES MATERIAL :- Carbon etsel A.S.T.B. A7-84 with .2% copper content, except were noted.
All holes may be punched full size emcept: (a) All boles marked RT are to be subpunched 1/8" small and reamed to size to a metal templet.
(b) Field connections of trusses shall be subpunched and reamed after truss is assembled. (c) Holes in main material over 5/8" thick shall be subpunched 1/8" small and reamed to eise. (d) Boles in main material over 3/4" thick shall be drilled from the solid. SERVED 2DOES of main material over 5/8" thick shall be planed to a depth of 1/4" where noted on details: FAME COT EDGES of main material shall be planed obipped or ground and present a smooth workmanlpike to terrate.
One coat of RED LEAD except where noted. Shop contact surfaces not painted.

Desotes brock in stagger.

NO PAINT ON TOP OF TOP FLANGE

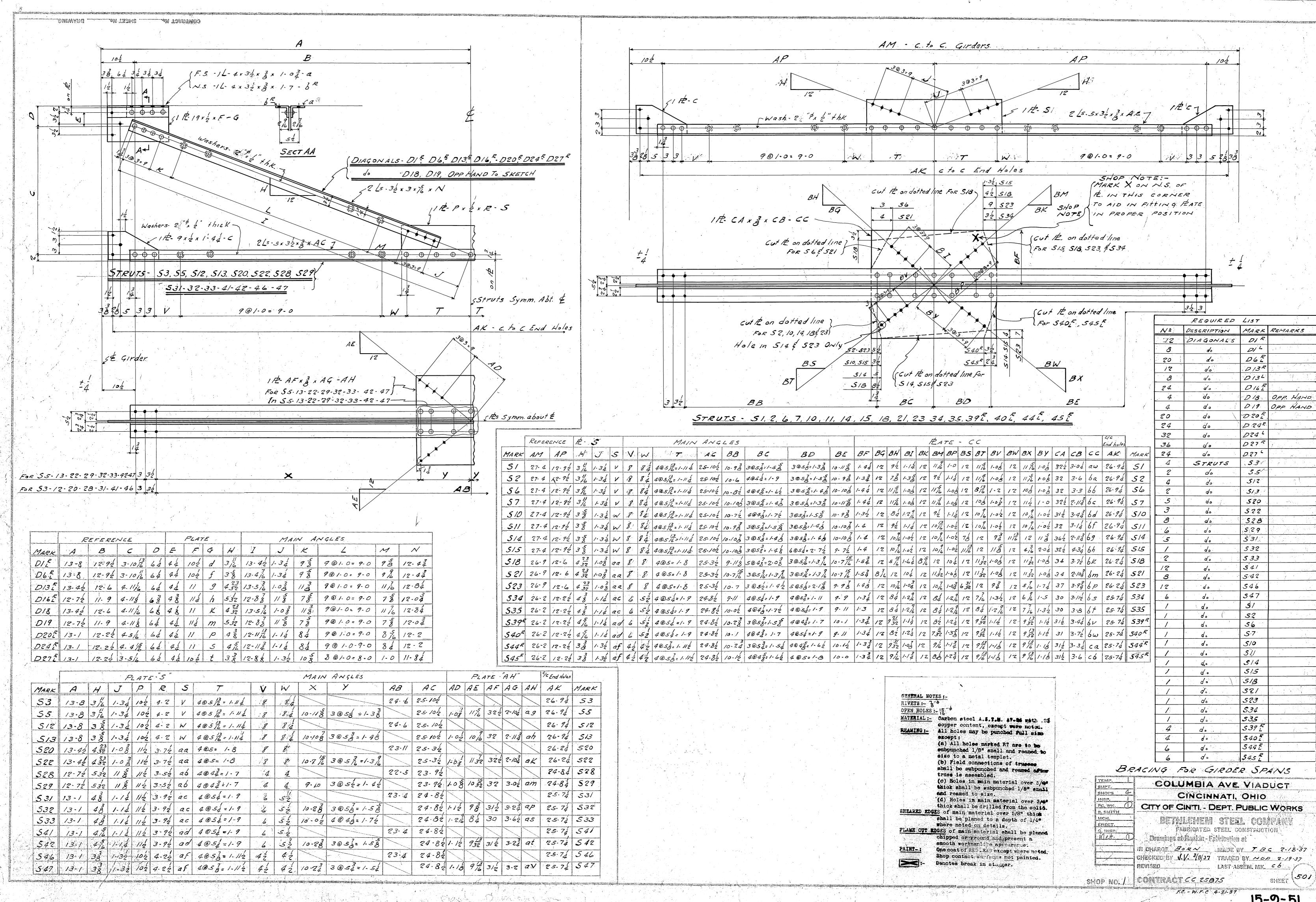
<del></del>			
	REQUIRED LIS	7	
NΘ	DESCRIPTION	MARK	REMARKS
	BEAM	B39	
/		B40	
,	//	841	
1	· · · · · · · · · · · · · · · · · · ·	B 42	
8	<i>i</i> i	B43	
8	<b>#</b>	B44	
16	<b>//</b>	B44 A	
4		B45	
4	<b>/</b> /	B46	
8	<b>"</b> "	B 47	
8	<b>#</b>	B47A	
4	<b>/</b>	B48	
4	<b>"</b>	B49	
8		B 50	
10		B50A	
		일본 경험을 잃었다고 있다.	

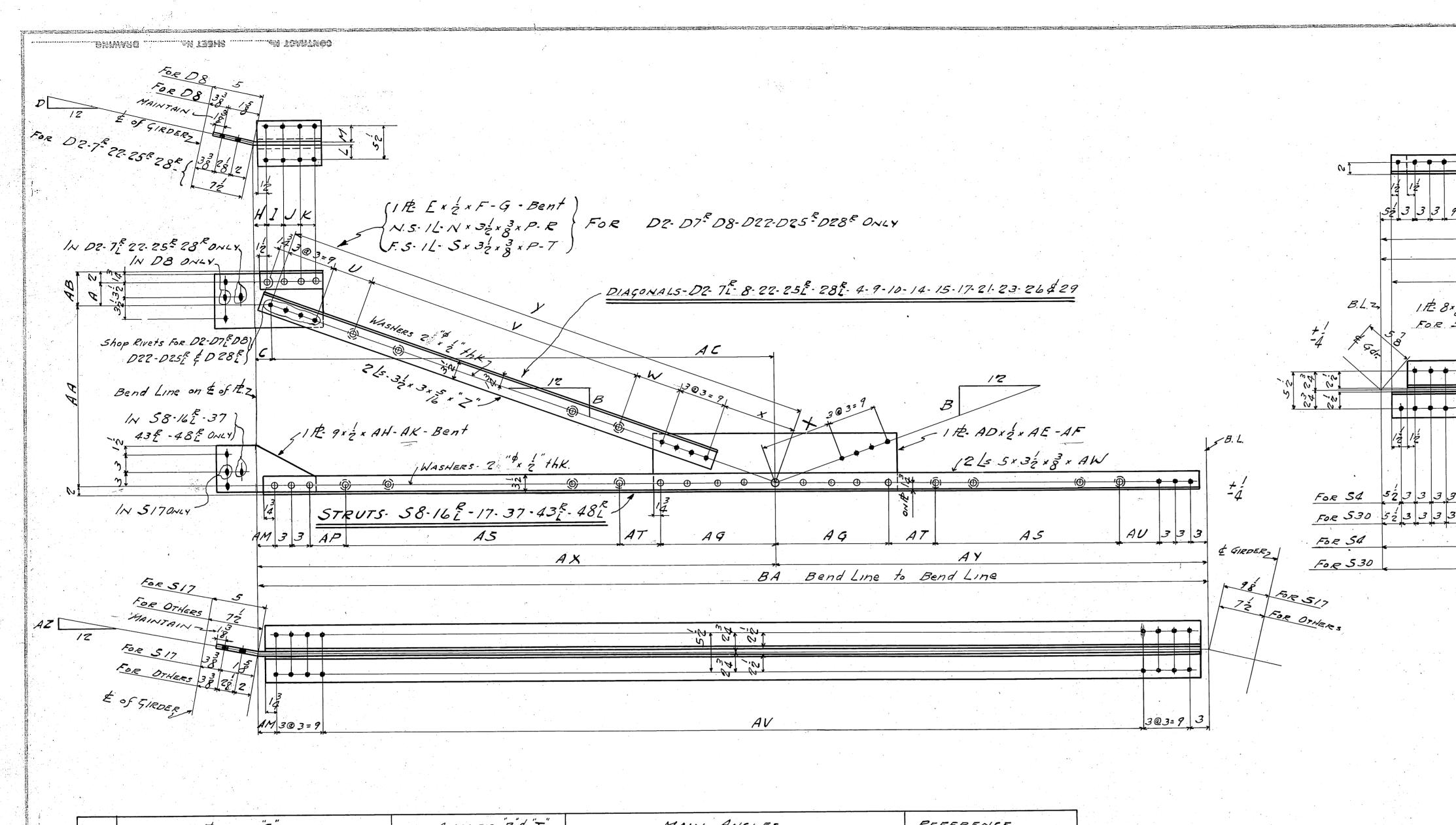
FLOOR BEAMS SPAN 7:10 COLUMBIA AVE VIADUCT CINCINNATI, OHIO CITY OF CIN'TI. - DEPT. PUBLIC WORKS BETHLEHEM STEEL COMPANY FARRICATED STEEL CONSTRUCTION Drawings at Rankin , Fabrication at IN CHARGE BORN MADE BY JHL

CHECKER BY AT 3.4.37 THACED BY NOP 2-19-37

120 1 1 1 CC 25874 F.C. TBC 5/14/37

15-9-50





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ſ			e de la companya de l		R	4TE	- <i>'</i> G	,,							4~4	: L E S	R	d'T	<b>-</b> "		MA	/~ /	ANGL	<b>E</b> 5		REA	ERE	NCE	
t	MARK	A	B	C	0	E	۶	G	H	J		K	۷	M	N	P	R	5	٢	U	V	W	×	У	Z	AA	AB	AC	MARK
	DZ	44	38	3	1/6	19	102	a	2	34	34	34	2/6	2/6	4	1-7	1	4	K	1-0	9@1-0= 9.0	78	1.34	13.38	12.52	3-10/6	64	12-108	DZ
	D7 R	,	3/6	.3	11 16	19	102	1ª	2	34	34!	34	2/3	2/6	4	1-1	m	4	N Q	1-0	9@1-0= 9-0	72	1-34	13.44	12-5	3-10 15	64	12.93	<i>D7</i>
	D8.		3 76		48		102	C	4	3	3	3 2	22	22	-	500	5	4	\$\lambda	7.4	10@1-0=10-0	7.16	1-4	14.0 13	13.04	3-10/6	64	13-64	08
Ì	D22	4%	4 16	3	13		11	d	2	3	3	,	3/6	1 15		7-1-		32	W	8	9@1-0= 9-0	8/6	1-14	12-11/16	12-2	4-4/3	62	12-2 32	DZZ
	D25 <sup>R</sup>	44	4/6		9	19	//	f R	2	3	3		15			11-6	aaR	32	ab <sup>R</sup>	8	9@1-0= 9-0	8/6	1-14	12-11/6	12-24	4.4 15	64	12.2/6	D25R
	028R	44	33	.3	7	19	102	g.R	2	3	3	3 / z	3	T	5	1-4	acR	32	ad	1-0	8@1-0=8-0	10 3	/-32	12.84	11-84	3.5/6	64	12.232	D28ª
	D4	4			0															1-0	9@1-0= 9-0	78	1-34!	13.58	12-52	3.10 15	64	12-108	D4
	D9																			1-0	9@1-0=9-0	72	1-32	13-44	12-5	3.10/6	64	12-94	09
	010																			7/4	10@1-0=10-0	776	1.4	14.0/6	13.04	3.10/6	64	13.64	010
	D14																			1.0	10@1-0=10-0	11-0/6	٧ /	14-716	13.92	4.10/6	64	13-98	D14
	D15						• ,				$\searrow$									1-0	11@ 1-0= 11-0	118	1.24	15-88	14-94	4-10/5	64	14-10/6	D15
	D17										$\searrow$									9	12@1-0=12-0	8/6	1.22	16-176	15- 22	4-11	64	15-432	017
• .	D21							-												9	12@1-0:12-0	9/6	1-32	16-416	15-42	4-4/6	64		
	D23																			8	9@1-0= 9-0	8/6	1-14	12-11/18	12-2	4-4/6	62	12-232	D23
	D26										1.2									8	9@1-0=9-0	8/16	1-14	12-11/16	12-24	4-4/5	64	12-216	026
	D29																			1.0	8@1-0=8-0	104	1-32	12.84	11-84	3.5/6	64	12-2 32	029

		FLATE AF					RATE AK				MAIN ANGLES					REFERENCE				
MARK	< AD	AE	AF	B	X	AG	AH	AK	AZ	AM	AP	AS.	AT	AU	AV	AW	AX	AY	BA	MARK
58	<u> </u>		at	35	1.32	405/13=1-114	1-44	ap	1/6	3	88	9@1-0=9-0	8	88	24-84	25-113	13.18	13-18	26.24	5-8
516	<del>-  </del>	4.2	9	3/6.	,		1.44	as R	11/6	3	82	9@1-0=9-0	8	82	24.12	25-11	13-04	13.04	26.12	516
5/7	100	4.32	,	7	1.4	406= 2-0	1.52	$\overline{\Omega}$	/	64	10	9@1-0=9-0	1-0	1.04	25-44	27-13	13.104	13-94	27.8	517
537		3.92		5	1-14	4@54=1.9	1-44	av	13	3	11/6	801-0=8-0	1-0	11/16	27-118	74.84	12-5/6	12-5/6	24-118	537
543		3. 92		~	7	4@54 = 1 - 9	/	awe	9	3	11:16	8@1.0:8.0	100	11 16	22-118	24.9	12.5/6	12-5/6	24-118	543 <sup>R</sup>
548		4-22		3		405 = 1-112			1			8@1-0-8-0	//	10/6	22-118	24.83	12-5/6	12.5/6	24.118	548R
1048	11752	17.62	14/11	1~0	1,02		<u> </u>	<del></del>	1	\ · ·	1		•			•				

					***	
	· ·	3/2	303=9	9.3	3/3	
		12	1.21	33		e de la companya de l
:		- 116	Ail 1.22	5-1A-10	2 × 2 × 4.0 - 66	
	24 WAS	sH 2 " x 2" thick,	3			
0 <u>1</u>		<b>⊕</b> ↓ (			<u> </u>	
	12 12		13/2	Ls-5x 32 x 3 x 30-	7	12 12
	5 3 3 3 9 16 11@	1-0= 11-0		9 6=1-104 12@1-0	= 12-0	9 15 3 3 3 2
		15. 7/6			15-716	
	-	2/6	31. 23	5		
		12,	30-10			
B.L.Z,	1 1 8x 3x1-11.60	- 7				
	5 - 51 0					
+-4	19.7	+ \ m\				
7 / 50	0	+			-/N 530 ON	<b>14</b>
- QK	• • •			34 16 6	-/N 530 ON	<b>/Y</b>
7				24	/N S 30 00	
- QK		4			/N S 30 00	
7	<i>n</i> ,	1/4/5	4 ONLY	w 00		
7		4	4 ONLY		SIA- 92 x 3x / FOR 530 0/	
25.25.	1/2 /2	1/2 /2	4 ONLY	30357883	SIR- 92 x 3 x / FOR 530 O	1-11-6 at 12 12 12 12 12 12 12 12 12 12 12 12 12
FOR S4	523333114	1/4/5		13. 113	SIA- 92 x 3 x 1 FOR 530 01	3 3 3 3 2
FOR 54  FOR 530	5 ½ 3 3 3 3 14. 5 ½ 3 3 3 3 3	1/2 /2	10-43	13. 113 13. 113 33. 3	SIR- 92 x 3 x / FOR 530 O	3 3 3 3 2
FOR 54	5 ½ 3 3 3 3 14. 5 ½ 3 3 3 3 3 14.	1/2 /2		13. 113	SIA- 92 x 3 x 1 FOR 530 01	3 3 3 3 2

		REQUIRED	L15T	
	Nº	DESCRIPTION	MARK	REMARKS
	2	DIAGONALS	DZ.	
	4	do	DTL	
	2	do	08	
	2	do	DZZ	
	8	do	D25 2	
	12	do	0282	
	2	do	04	
•	4	do	09	
	2	do	010	
	4	do	014	
	4	do	D15	
	8	do	017	
	4	do	021	
	2	do	D23	
	8	do	026	
	12	do	D29	
	2	STRUTS	58	
	4	do	5/6 R	
	2	do	517	
	2	do	5.37	
	8	do	5432	
	12	do	548 L	
	2	do	530	
	2	do	54	

OPEN HOLES :- 15 " MATERIAL:- Carbon steel A.S.T.M. A7-84 seth .24 copper content, except were noted.

REANING!- All holes may be punched full etge (a) All boles marked RT are to be embroached 1/8" small and reamed to size to a metal templet. (b) Field connections of trusces

> trues is assembled. (c) Holes in main material over 5/8 thick shall be subpunched 1/8" smoll end reamed to sixe. (d) Holes in main material over 364" thick shall be drilled from the solid.

shall be subpunched and reamed after

SHEARD EDGES of main material over 5/8" thick shall be planed to a depth of 1/4" where noted on details.

chipped or ground and present a
smooth workmanlike appearance.

PAIMT -: One coat of RED LEAD except where noted.
Shop contact surfaces not painted.

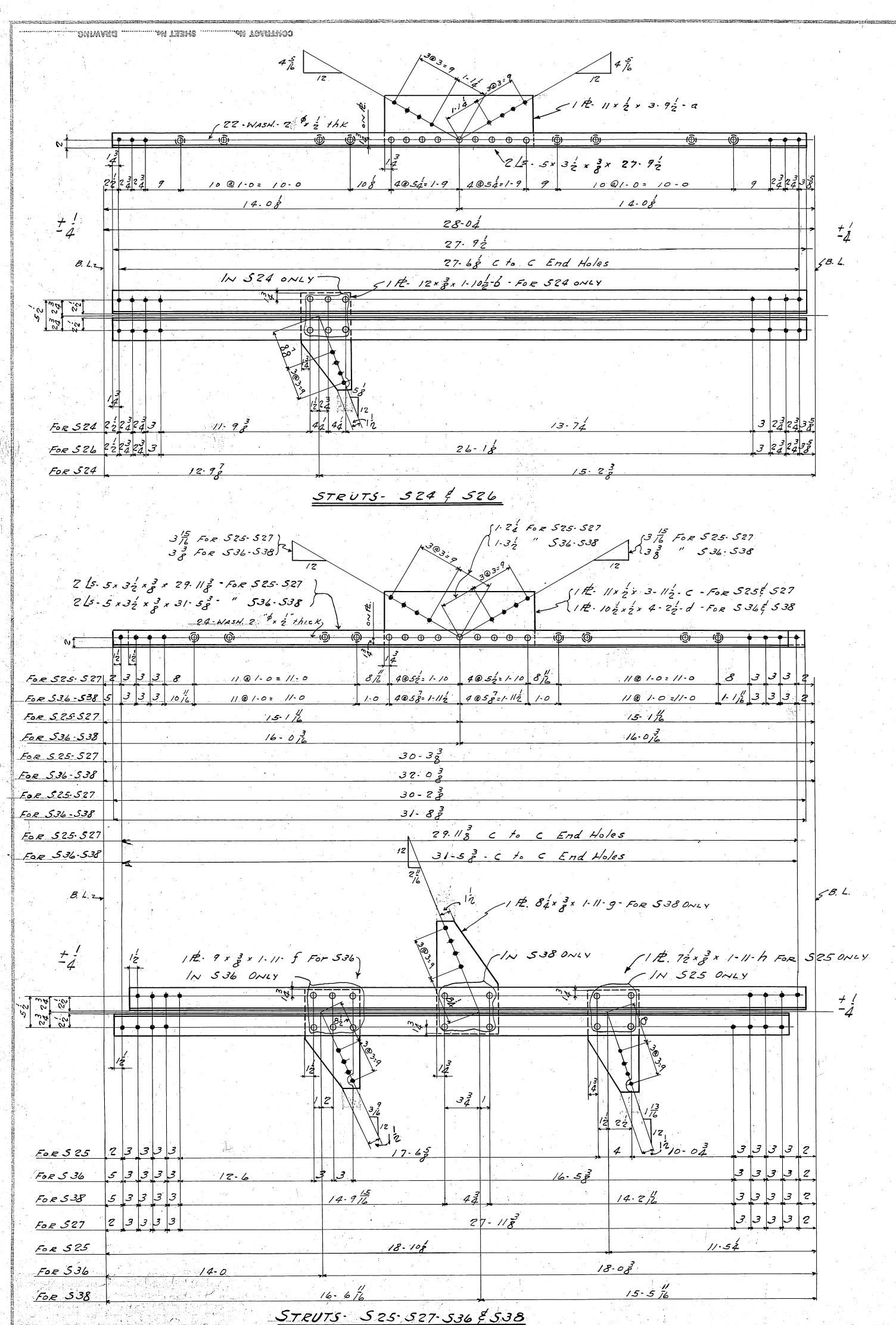
BRACING FOR GIRDER SPANS

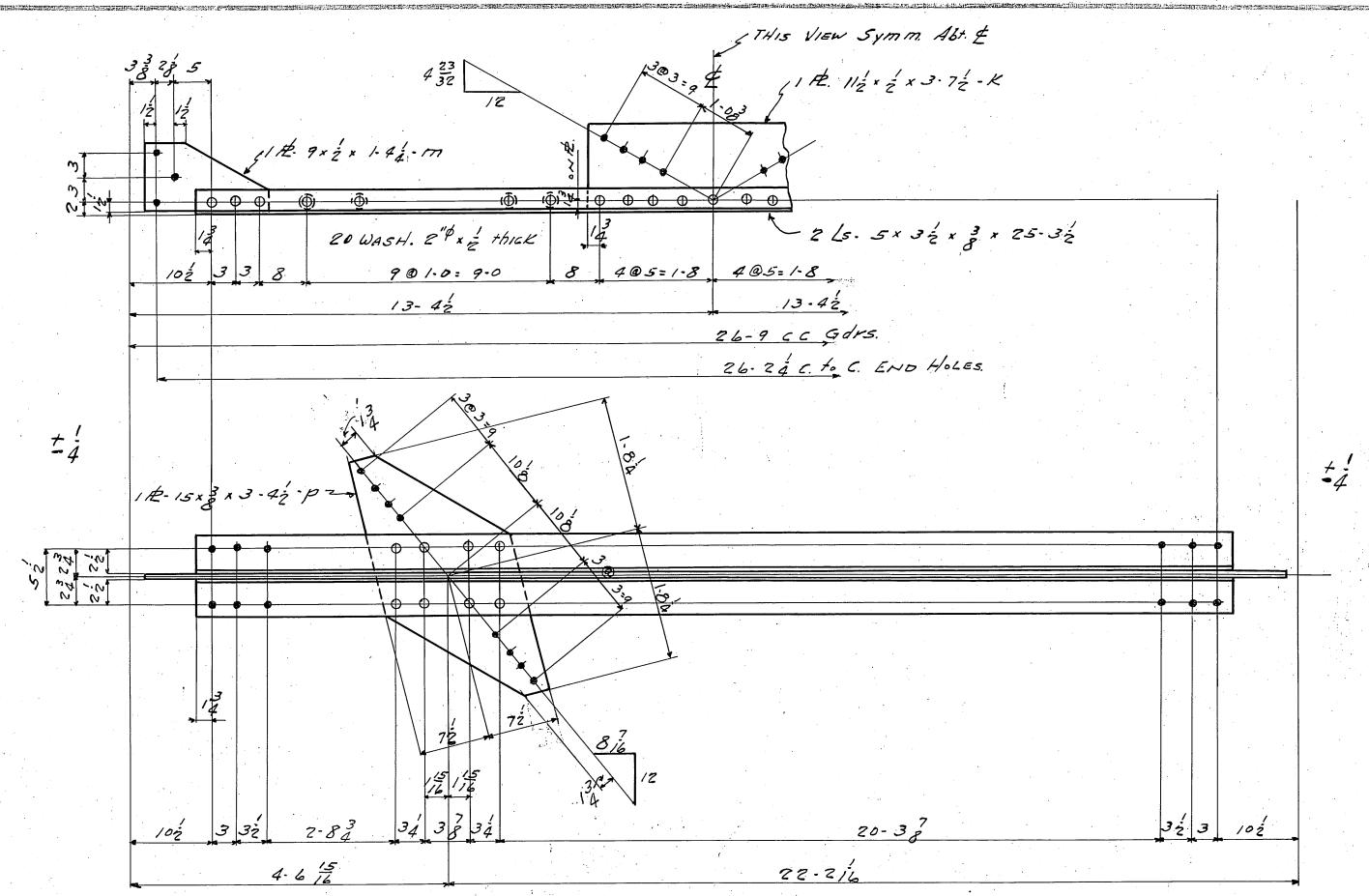
COLUMBIA AVE VIADUCT CINCINNATI, OHIO CITY OF CINTA - DEPT. PUBLIC WORKS

DETHIEREM STEEL COMPANY FAURICATED STEEL CONSTRUCTION Brawligs at Rankh - Fabrication at

IN CHARGE BORN WADE BY TBC 2-20, 37 CHECKED BY J.V. 3 8 37 TRACED BY NO D : 2-29-37

COMPACT CC 25875 F.C. W.F.C. 4-21-37





STRUT. S19

Nº	DESCRIPTION	MARK	REMARKS
	STRUT	524	
/		526	
/		525	
/		527	
1		536	
1		538	
1	4	519	

RIVETS:- 3"

OPEN HOLES :- 15"

Carbon steel A.S.P.M. A7-34 with .2% copper content, except were noted.
All holes may be punched full size

except:

(a) All holes marked RT are to be subpunched 1/8" small and record to size to a metal temples. (b) Field connections of truscas shall be subpunched and reamed after truss is assembled. (c) Holes in main material over \$785 thick shall be subpunched 1/8" south (d) Holes in main material over 200"

thick shall be drilled from the solds. SHEARCD EDGES of main material over 5/8" thick shall be planed to a depth of 1/40 where noted on details.

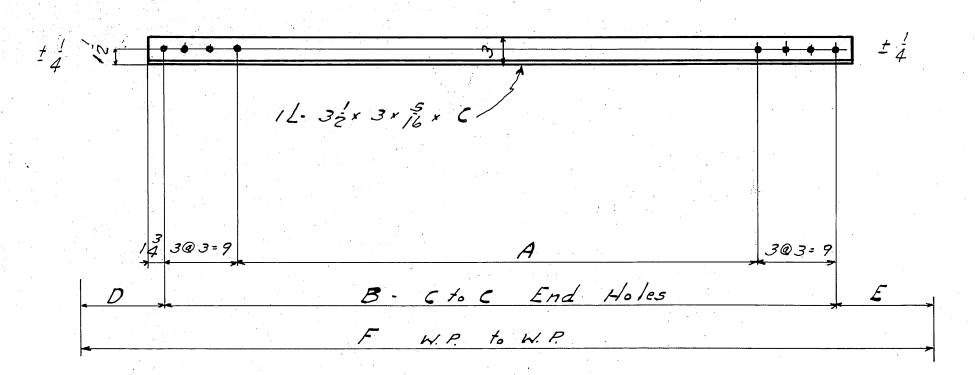
FLAME COT EDGES of main material shall be pleased chipped or ground and present a smooth workmanlike appearance. One coat of RED LEAD except where noted. Shop contact surfaces not painted.

BRACING FOR GIRDER SPANS

COLUMBIA AVE VIADUCT CINCINNATI, OHIO CITY OF CONT. - DEPT. PUBLIC WORKS BETHIEVER STEEL COMPANY FARRICATED STEEL CONSTRUCTION Drawings at Bankin - Fetrication at IN CHARGE BORN MADE BY TBC 2-22-37 CHECKED BY J.V. 3/8/87 TRACED BY NOR 2-24-37

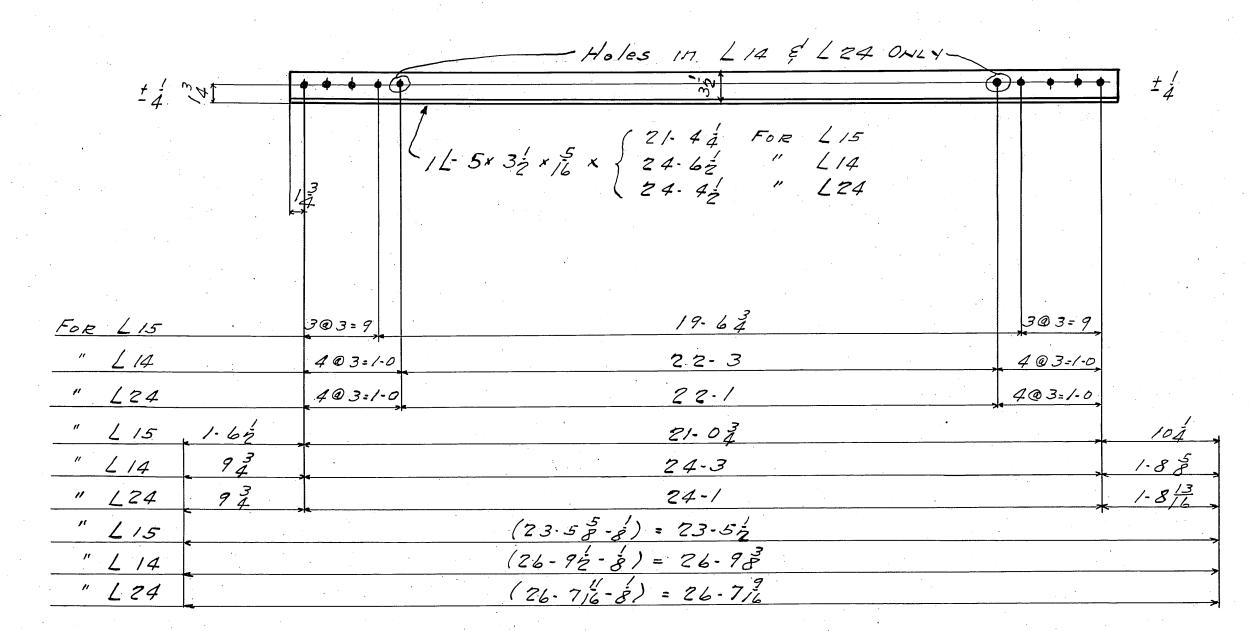
COMPRACT CC 25875

F.C. W. F.C. 4-21-37

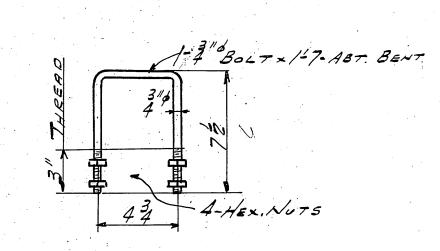


## BOTTOM LATERALS- LI to 13, LI6 to 23 & L25 to 42 /wel.

MARK	$\mathcal{A}$	8	C	D	E	F
41	15-34	16-94	17-03	1-216	1-0	(18-118-16) = 18-11/6
12	13-84	15-24	15-53	1-18	1-14	(17.4/6-16)= 17-48
13	12-22	13-82	14-0	1-016	1.35	(16-02-16)= 16-016
L4	15-08	16-68	16-10	1-08	1-2/6	(18-9/6-8)=18-9/6
25	15-24	16.84	16-113	1-0	1.22	(18-108-8)=18-103
16	14-28	15-88	15-112	1-08	1-14	(17-10/3-16)=17-104
17	13.28	14-88	15-0	1-1	1.2	(16-11/6-16)=16-118
18	14-84	16-24	16.53	1.78	1-02	(18-4 16-16)=18-48
19	13 84	15-23	15-64	1-18	1-14	(17-5/6-16)= 17-58
110	12-92	14-32	14-7	1-04	1-2/6	(16.68-16)=16.6 16
111	14-58	15-118	16-3	1-02	1-2	(18-24-8)=18-28
112	10-08	11-68	11-92	118	2-04	(14.5 g- g)= 14.52
13	15-98	17-38	17-62	118	/-3	(19.58-8): 19.53
116	10-11	12-58	12-82	11/6	1-64	(14-11/6-8): 14-11/6
117	15-8	17-2	17-52	88	1-18	(19.0/6-16)=19-04
118	4-1	5-7	5-102	1-64	10 \$	(7-1/3-0)=7-1/3
119	14.78	16-18	16-42	1.08	1.2 16	(18-3/6-8)= 18-3/6
L20	12-08	13-68	13-102	108	104	(15-38-8)= 15-34
121	12-02	13-6.2	13-10	8	1-38	(15.62-8): 15-68
722	13-118	15-58	15-92	1-18	1-03	(17-88-8)= 17-82
L23	10-8	12-2	12-52	1-74	11/6	(14.8/5-8)=14-8/6
125	13.68	15-08	15-32	88	1-18	(16-104-8)=16-108
126	13-04	14.64	14-93	1.05	1-1/15	(16-8/6-8)=16-8/13
L27	15.88	17-28	17-62	88	1-08	(19-0 32 - 32) = 19-0g
128	13-102	15-42	15-8	84	1-116	(17-24-16)=17-216
L29	12-103	14-43	14-8	1-12	1-176	(16.716-8)=16.716
130	14-62	16-04	16-33	82	1-2 16	(17-11/6-8)=17-11/6
231	11-11 3	13-58	13-83	1-2/6	1-216	(15-10/6-16)=15-102
132	10-9	12-3	12-62	1.5	1.2/3	(14-10/5-8) = 14-10/6
L33	11-22	12.82	13-0	1-32	1-4/6	(15-42-16)=15-47
L 34	11-10 \$	13-48	13-73	1-2/6	1-33	(15-10/6-8)=15-10/6
235	11-44	12-104	13-13	1-216	1-35 2	(15-4-16)-15-376
436	12-2	13-8	13-112	1-2/6	1.24	(16-083-16)=16-016
437	12-112	14-52	14-9	1-24	1-12	(16-9/6-16)=16-92
138	12.102	14-42	14.8	1-12	1-156	(16-7/6-8)=16-7/6
139	11-11 8	13-58	13-9	1-14	1-24	(15-93-8)=15-98
140	12-78	14-18	14-42	1-14	1-13	(16-43-8)= 16-48
L41	13-28	14-88	15-02	1-2/6	1-03	(17.0/6-8)= 17-0/6
42		14.78	14-102		1-7/6	(16-10/6-8)=16-10/6
				•	10	



BOTTOM LATERALS L14-L15-L24



U-BOLTS- H89 29 - BOLTS - FOR- INST- 3

- 1 - INST-8 1-22-ABT-FOR HB5 1:82-ABT-FOR HB8 2-HEX. NUTS

> HOOK BOLFS HB5-6-7-8 FOR ENDFLBEAMS

/NST.	HB5	1486	487	438
3	8	8	Š	16
2	8	8	14	16
8	12	12	14	24
9	12	12	12	24

RIVETS:-MATERIAL:- Carbon steel A.S.T.M. A7-34 with .2% copper content, except were noted. All holes may be punched full sime (a) All holes marked RT are to be subpunched 1/8" small and reamed to size to a metal templet. (b) Field connections of trusses

shall be subpunched and reamed after trues is assembled.

(c) Holes in main material over 5/05 thick shall be subpunched 1/8" small and reamed to size.

chipped or ground and present a smooth workmanlike aprearance.

PAINT:

One coat of RED LEAD except where noted.

Shop contact surfaces not painted.

Shop contact surfaces not painted.

Denotes break in stagger.

	Nº	DESCR	IPTION	MARK	REMARKS
	/		ERALS		
_	2		\	12	Account of the Control of the Contro
	1			13	
	16			14	
	1			15	
	2			16	
	/			17	
	1			18	
	2		•	19	1
	1		e e e e e e e e e e e e e e e e e e e	110	
	16		·	211	
	/			112	
	2			2/3	
•	1			114	
	/			L15	
	1			L16	ta .
	1			L17	
				L18	
	17		<u> </u>	219	
	/			120	
	/			L21	
	2			L22	
	/	•		L23	
* .	/			124	
:	2			L75	
· · · · · · · · · · · · · · · · · · ·	24			126	
• /.	2		, i	127	
	/			128	
	4			179	
. /	1			<u> </u>	
.6.	12			13/	
	/			132	
	2			<i>L33</i>	
	/			L34	
N	4			135	
	8			136	
	4	5		137	
	48			138	
	6			139	
N 1	12			140	
	18			L 42	
	48	11	<u> </u>	485	
	40	HOOK	BOLT5	486	
	48	11	11	H87	
	80	11	//	H88	
:	156		,4 <i>7</i>	1489	
	_ / • •	<u> </u>	2 <b>4</b> .7	<i>7. ( <b>Q</b> /</i>	

REQUIRED LIST

HOOK BOLTS FOR GIRDER SPANS BOTTOM LATERALS FOR GIRDER SPANS COLUMBIA AVE VIADUCT

CINCINNATI, OHIO CITY OF CINTIL - DEPT. PUBLIC WORKS

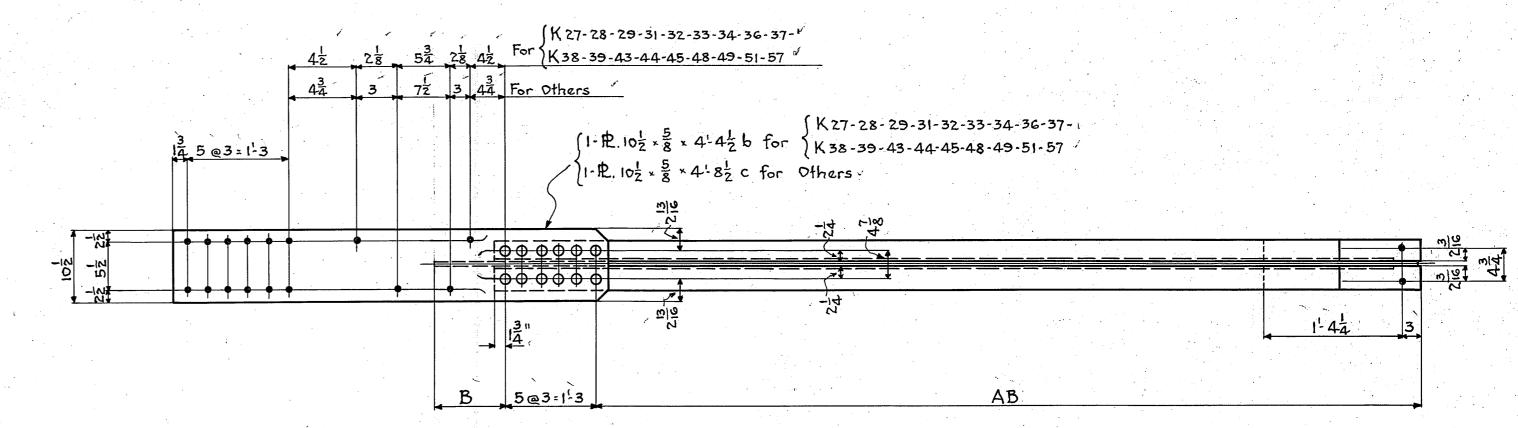
BETHLEHEM STEEL, COMPANY / FABRICATED STEEL CONSTRUCTION

Drawleds at Bankin . Fabrication at IN CHARGE BORN WADE BY TBC 2-23-37 CHECKED BY U. V. 3/8/27 TRACED BY NOP 2-25-37

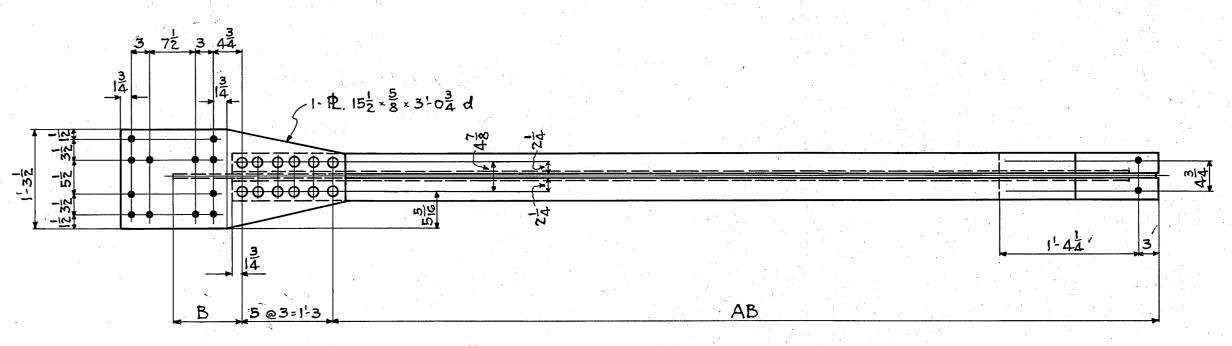
F.C. W.F.C. #21-37



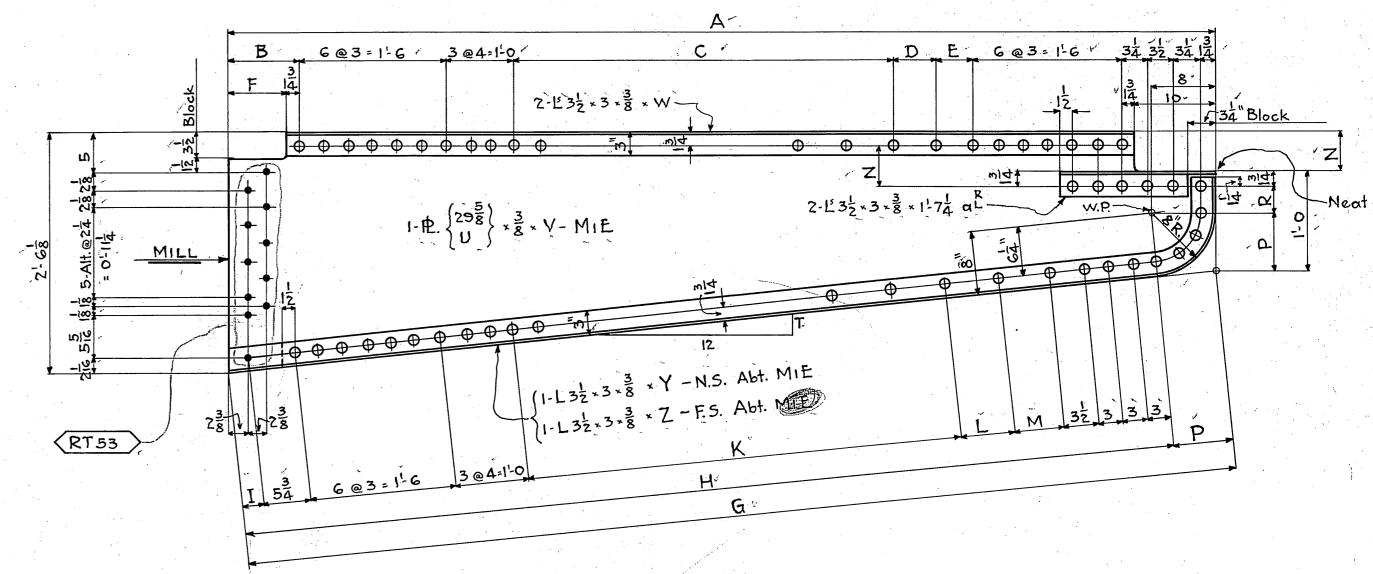
						•										· .									
Nº Reo'd.	MARK	REMARKS	A	В	С	D	E	F	G	H	I	K	L	M	N	P	R	T	U	V MARKATAN M	W	Y	Z	AB	MARK
	Kı		7-813	108	2 @ 6 = 1 - 0	54. _3	5 3 5 6 3	8 <del>8</del> 13	7-98	7'-3	2 <u>5</u> 28	5 @ 6 = 2'-6	3	38	44	6 <u>8</u>	38 38	1 <u>13</u> 1 <u>16</u> <u>3</u>	154 1	7 <sup>1</sup> -816	6'-116	8!-7	8'-08	5! 7 <u>16</u>	Kı
The state of the s	K2 K3	As Shown Opp. Hand		10%	2@6=1-0 2@6=1-0	5g 513 516	5 <sup>3</sup> / <sub>8</sub> 5 <sup>13</sup> / <sub>16</sub>	816 816 816	7-10 7-108	7-315	25/8	5@6=2'-6 5@6=2'-6	3 1  3 6	34 38	4 <del>4</del> 4 <del>4</del> 4 <del>4</del>	68 65	38 35 36	14	164	7!-8!3 7!-9!1	6 <sup>1</sup> -2 <sup>1</sup> / <sub>4</sub> 6 <sup>1</sup> -3 <sup>1</sup> / <sub>8</sub>	8'-78 8'-78	8102 8114	51.7½ 51.83	K2 K3
2	K4E		7-104	-	2@6=1-0	6	578	88	7-114	7148	25	5@6=2'-6	34	34	44	678	38	13	15 <sup>3</sup> / <sub>4</sub>	7'-10	6 <sup>1</sup> -3 <sup>3</sup> / <sub>8</sub>	81.83	8113	5-85	K4R
The state of the s	K5	THE COLUMN THE STREET WAS THE STREET OF STREET	7-10 8	102	3 @ 6 = 1 - 6	316	316	84	7-118	7-44	2 <u>5</u>	5@6=2'-6	4	38	42	68 15	3 <u>3</u> 3 <u>8</u> 5	14.	16	7-108	6-38	81.83.	8'-28	5198	K5
1 2	Ko K7E		7-10\frac{15}{5}	102	3@6:1-6 3@6:1-6	3 g 3 g 3 g 3 g 3 g 3 g 3 g 3 g 3 g 3 g	313 316	813 83 84	7 <sup>1</sup> 11 <sup>2</sup> 6 8 <sup>1</sup> 0 <sup>8</sup>	7-48	25 25 25	5@G=2'-6	4 42	34 49 416	44 42	6 15 6 16	316	116	164	7-103	6-313 6-516	8 <sup>1</sup> .8 <sup>5</sup> / <sub>8</sub>	8 <sup>1</sup> -2 8 <sup>1</sup> -3 <sup>1</sup> / <sub>4</sub>	51916	K6 K7 R
1	i	Opp. Hand	8-116	10 %	3@6=1-6	45	42	818	8-28	7-78	2 <u>5</u>	5@6:2'-6	58	58	44	7	34	15	164	8118	6,68	81-118	8:43	51118	K8
2	KəR		8'-28	10 5	3@6:1-6	54	54	88	81-38	7-816	2.5	5@6:2-6	6	616	44	616	356		154	81.25	6-8	9,1	81.68	6-14	KeR
	Kio	999-44-49-49-49-49-49-49-49-49-49-49-49-	8 <sup>1</sup> -2 <del>8</del> 8 <sup>1</sup> -2 <del>8</del>	102	3@6=1-6	58 516	54	84 84 816	8 <sup>1</sup> ·3 <sup>13</sup> / <sub>16</sub>	7-813 7-816 7-84	25 25 25 28	5@6:2'-6	6	515	42 44	7	34	15	16	8 <sup>1</sup> 2 <del>8</del>	6'-88	91-08	8-64	6-18	KIO
,	KII KIZ	Opp. Hand	8-28 8-47	1016	3@G=1-6 4@G=2-0	316	54	84	8 <sup>1</sup> .34 8 <sup>1</sup> .58	7-108	2 <u>5</u>	5 @ 6 = 2 ! C	6 3 <u>3</u>	58 33 34	44	7	34 34	185	164 16	81-2 <del>8</del> 81-43 81-416	6'-816 6'-916	9104 9128	8'-68 8'-73	61-215	KII KIZ
	K13	Opp. Hand	8-716	102	4@6:2'-0	42	416	8 <del>4</del>	8,818	8-116	25/8	6@6:31-0	516	5	42	7	34	116	16	8-66	7-016	91.58	8-102	61.516	K13
1	K14	Opp. Hand	81.7 E 81.7 E	10 6	4@6=2'-0	48	45	816 7 88	8-816 8-816	8-16	25/8	6@6:3-0	516		4 <del>3</del> 4 <del>3</del> 44	7 ~	3 <del>4</del>	9	164	81716	7,03	91.52	8-107	6-6	K14
2	K15 K16 <sup>R</sup>	Opp. Hand	8-716 8-715	108	4@6=2'-0	416 7 48	4 <sup>5</sup> / <sub>8</sub> 4 <sup>3</sup> / <sub>4</sub>	813	8-816 7 8'-88	8-16	2 <u>5</u> 2 <u>5</u> 2 <u>5</u>	6 @ 6 = 3 -0	516 52	58 5 <b>2</b>	44	7	3 <del>4</del> 34	916	164 154	81-716 81-716	7-016 7-18	9 <sup>1</sup> .5½	8'-108	6'-516 6'-68	K15 K16L
	K17		8'-104	108	4@6:2!0	6	5 <del>8</del>	88	8-1116	8-4	25/8	7 @ 6: 3 <sup>1</sup> -6	32	3 <u>5</u>	434	716	316	12	164	8 <sup>1</sup> -10	7-38	91.8	9-118	6-88	KI7
	K18	Opp. Hand	8'-11	102	5 @ G = 2 - G	32	34	84.	8-118	81.413	2 <u>5</u>	7@6:346	4	315	42	716	316	12	16	81-104	7-44	9-88	9-24	61.9½	K18
2	K19 K20L	Opp. Hand	8,118	10 ह	5@6=2'-6 5@6=2'-6	34.	32 37 38	88 816	9:16	8-58	2 <u>5</u> 2 <u>5</u> 2 <u>8</u>	7@6:3 <sup>1</sup> .6	44 42	44 416	4 <u>4</u> 4 <u>4</u>	716	316	12	164	8-11 <u>15</u> 8-11 <u>8</u>	7!-4 <del>3</del> 7!-5 <del>3</del>	9:108	9 <sup>1</sup> 2 <sup>3</sup> / <sub>4</sub> 9 <sup>1</sup> 3 <sup>1</sup> / <sub>2</sub>	6'-10 g	K19 Kzok
1	K21	Sain Wal	9.06	1016	5 @ G = 2 <sup>1</sup> -G	4	3 13 3 16	88	9:1	8:516	28 28	7@6=3 <sup>1</sup> -6	47 42	416	alpan ann inne	716	316	12	164	8-115	7-58 7-55	9-108	9'-38	6-108	K20L K21
	Kzz	Opp. Hand	9-116	10%	5 @ 6: 2 <sup>1</sup> -6	44	45/8	813	9-216	8-7	25/8	7@6=346	5	5 t 8	44	716	336	1	154	9'-0 <del>15</del>	7-63	9-108	9-32	6-118	Kzz
2		Opp. Hand	3,11 <u>6</u>	10 5 10 5	5 @ 6 = 2 !- 6	4 <u>5</u> 4 <u>5</u> 4 <u>8</u>	416 416	87/8	9!1 <u>15</u>	81.616	25)8 25)8 28	7@6=3-6	5	516	4 <u>4</u> 5 <u>1</u>				164	9:0 <u>15</u>	7'65 7'66	9'-11	9:48	6-11 g	K23
1	K24 K25	Opp. Hand	9-16	1	5 @ 6 = 2 <sup>1</sup> - 6	4-8 7 4-8	416	84	9123	8-716	25/8	7@6=3!-6 7@6=3!-6	5 <u>1</u>	5516		7%	316	12	164	9-13	7-616 7-74	əː미울 əː॥	9!48 9!5	6-1116 7-02	K24 K25
4	KZ6 R	T 1300 200 - 18E - TTE T 31E T (40 100 - C) 400 1 200 1	91-2	108	5@6=2'-6	48	44	88	9:23	8:716	25	7@6=3-6		556		716	2	12	164	9.13	7!-78	9-114	9158	7!08	K26 P
3		Opp. Hand	91.311		6@6=3-0	34 3		68	9-4-6	8-96	216	8@6:4-0		34	1		38	18	164		7-1016	10,18	9-64	7-4-6	K27
Beceret	K28	Opp. Hand	9'-316	8½ 8½ 8½	6@6:3'-0 6@6:3'-0	3 <sup>3</sup> / <sub>4</sub>	3 <del>1</del> 6 4	64 64	9:47	8'-95 8'-98	216	8 @ G = 4!-0 8 @ G = 4!-0	34	<del>,</del> ,	54 54	7\frac{1}{8}	38	180	164	9 <sup>1</sup> .3 <sup>7</sup> 9 <sup>1</sup> .4	7-1015	10-18	91.64	7-4=	K28
4	K30R		9-44		5@6:21-6	6	5 <del>8</del>	88	915	8'-9 <del>8</del>	216	8@6:4'-0	32		54	78	38	13	164	9-4	71-98	10-18	9!74		
2		As Shown	9-44	85	6@6=3 <sup>!</sup> 0	37/8	4	67	915	81-97	29	8@6:4'-0	31/2	316	54	71/8	31/8	18	164	9.4	7-113	10-18	9:74	7-45	K31 <sup>R</sup>
3	K31 <sup>2</sup>	Opp. Hand	9:48	81/2	6 @ 6 ± 3 ½ 0	43/8	44	64	9!55	8-10-2	2,6	8@6:4!-0	37/8	3 <u>13</u> 316	54	7 %	38	13	164	9!4 <del>5</del>	8'-08	10-27	9:778	7!58	K31 <sup>L</sup>
1	K33		9:48	88	6@6:31-0	44	44	67/8	9155	81-102	216	8@6:4'-0	3 <sup>7</sup> / <sub>8</sub>	313	54	78	31/8	18	164		81-0	10-22	9-78	7-54	K33
		Opp. Hand	91516		6 @ 6 = 3 <sup>1</sup> 0	48	416	64	9-616	8-1116	216	8@6:4-0	48	48	54	78	3 1/8	18	164	9!5!6	8-116	10-35	9!-9	7-616	K34
2	K35L Vac <sup>R</sup>	As Shown	91-616		6 @G = 3 <sup>1</sup> -0	44	45	84 7	9!7를 9	91016	216	8@6:410	48				38		164	1,000	8'-016	10-42	9-98	7-55	
4		Opp. Hand	0 010		6 @ 6 = 3 <sup>1</sup> 0	58	516	68	9176	9:016	216	8@6=4-0	58	44	54	78	38	18	164		8'-116	10-42	9,98	7!-716	K36 <sup>R</sup>
	K37	MITTALL CALLETY COMMANDE	91.618	82	6 @ 6 = 3 ! O	54.	516	64	9!718	9:016	216	8@6=4-0	48	54	54	78	38	18	164	9 <sup>1</sup> -6 <u>16</u>	81-216	10-42	9-98	7175	K37
4 2	事業 たっこうり エー・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・	As Shown Opp. Hand	91-74	88 88	6 @ 6 = 3 to	5) 58	5 <u>3</u>	68	91816	9114	29	8 @ G = 4 <sup>1</sup> 0	5 <del>3</del>	416	54	716	316	516	164	9!72	8!-27	10-54	9-10-8	7-81/8	K38 <sup>R</sup> K38 <sup>L</sup>
1	15	Opp. Hand	91.74	84	6@6:350	5½	5 <u>3</u>	7	9'.87	9:14	25	8@6=4-0	434		54	736	316	15	164	9'-7½	8-23	10:54	91108	7.8	K39
2	K40	Opp. Hand	91-84	102	6@6:3-0	5	5	84	9,916	9-116	216	8@6=4'-0	5½	58	42		38	116	16	9 <sub>1</sub> 8	81-12	10-6	91-118	7-634	K40
4	K41L K42	र देशीले वेदावन्त्रीशाच्याकाच्याकाच्या	91.84	108 102	6 @ 6 = 3 ! 0	5 55 58	48 52	88	9 <sup>1</sup> -10 <sup>8</sup> 9 <sup>1</sup> -8 <sup>16</sup>	9-13 9-215 9-216	216	8 @ 6 = 4 <sup>1</sup> -0	54 68	- Commenter of the latest of t	5 <u>4</u> 5	716	316 316	116	164 162	ə:əş 9-8	8 <sup>1</sup> -1 <sup>3</sup> / <sub>8</sub>	10! 54	10108 10108	71.68	K41E
		Opp. Hand	9193		7 @6 = 3'-6	358	3½	64	9:1016	9128	216	9@6:4-6	316	· ç	54	716		<del></del>	164	· · · · · · · · · · · · · · · · · · ·	8!45	10-1	10-08	7598	K42
A CONTRACTOR OF THE CONTRACTOR	K44	Opp. Hand	91.98	84	7@6:346	38	31/2	7	9-1016	9-27	216	9@6:446	316	3	54	73	316	156	164	91-98	8 <sup>1</sup> -4 <sup>3</sup> / <sub>8</sub>	10-68	10-04	7-95	K44
111111111111111111111111111111111111111	K45 K46	Opp. Hand	91.104	88 102	7@6=3 <sup>1</sup> -6 6@6=3 <sup>1</sup> -0	3 <del>2</del>	32	68 83 84	9:10:g	9 <sup>1</sup> -2 <sup>7</sup> / <sub>8</sub> 9 <sup>1</sup> -3 <sup>3</sup> / <sub>4</sub>	296	9@6:4-6	316	- <del></del>	54	716		116	164		8 <sup>1</sup> .4 <sup>1</sup> / <sub>2</sub> 8 <sup>1</sup> .3 <sup>1</sup> / <sub>2</sub>	10-68	10-04	7 <sup>1</sup> .9 <sup>3</sup> 4 7 <sup>1</sup> .8 <sup>3</sup> 4	K45
4	K47 <sup>R</sup>	W. C.	9-104	102	6@6=3-0	6	6	84	9-1016	9 <sup>1</sup> 3 <sup>13</sup>	216	9@6:4-6	316 32	38 32	1 1	716		116	162		8-32	10-14	10-18	7-84	K47R
6	K48L	and the state of t	9404	88	7@6=3'-6	38 3	4	68	9-11	9-316	7	9@6:4!6	32	32		73	316	116	164	91-10	8 <sup>1</sup> -5 <sup>3</sup> / <sub>2</sub>	10178	10! 14	7-108	in the second second
	K49		9104	84	7@6:3:6	34	4	7	9'-11	9!3[3	216	9@6:4'-6	32	32	54	1	316	1 -	164	1	81.54	10-78	10-14	7-10-2	K49
1 2		Opp. Hand	9103		7@6=3-6	3 <del>4</del> 4 <del>8</del>	3 <del>4</del> 4 <del>4</del>	84	91112	9:45	216	9@6:4'6	3 <sup>2</sup> 4 3 <sup>3</sup> 4	34 31 316	5 54	716	316	+	162	9-102 9-102	8'-4 8'-5 <sup>7</sup>	10-88	10-13	7-118	K50
2	K52R	- Samera Intelligentarion	10-0%		7@6:3'-6	4	416	84	10-116	91515	216	9@6:4'-6	42	-	4½	78	38	18	16	10,016	81-516	10,10	10-38	12	71
	K53		10-016		7@6=3'-6	4	416	84	10-1	91513	216	9@6=4'-6	42			716		15	162	10,010	81.5%			7-1016	K53
2	K54 <sup>R</sup> K55		10小学	1	7 @ 6 = 3 - 6	4 4 <sup>3</sup> / <sub>8</sub>	416	84 84 84	10-1	9:516	216	9 @ 6 : 4'-6 9 @ 6 : 4'-6	4½ 4½ 48	4½ 416	54 54	716	316	山岩	164 164	10-019 10-019	81.5%	10-98	7	7년10분	K54R K55
	K56		10-18	105	7@6:3'-6	48	5	84	10-216	9:78	216	9 @6:4'-6	51/2	516	42	716	316	15)16	16	10 <sup>1</sup> -18	81.78	10-102	10-38	8'-08	K56
		Opp. Hand	10-18	·	7@6:346	5 <u>3</u> 5 <u>4</u>	58	6 <u>4</u> 3	10-25	91-716	216	9 @ 6 = 4 - 6	5 <u>5</u> 516		54		316	5)16		10-18	8,58	10-112	10-48	8-28	K57
	1	Opp. Hand	101-28 101-516	102	7 @ G = 3 <sup>1</sup> -6 8 @ G = 4 <sup>1</sup> -0	5 <sup>3</sup> / <sub>8</sub>	5 <del>4</del> 3 <del>16</del>	84 84 84	10-3 = 10-5 = 10   10   5   5   5   5   5   5   5   5   5	9 <sup>1</sup> 10 <sup>8</sup> / <sub>2</sub>	216	9 @ 6 = 4 - 6	54	516 316		716 74	316	116	1	10년 4년	81.88 81.1016	11-0=	10-54	81-18	K58
	1)	Opp. Hand Opp. Hand	10-516		8 @ 6 = 4 - 0	32 3 <u>5</u> 38	38	84	10-58	9-114	216	1	44	7		74		14	162		8,11	11-28	10-8	8144	K60
1	K61	Opp. Hand	101-72	102	8 @ 6 = 4 !-0	45	48	84	101-816	10-016	216	10@6=540	58	5	5	74	3	14	162	10-74	9-04	1115	10-108	8'-6	Kei
7 6 5 5 5 7 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8	ii	Opp. Hand	10-916	U. M. PHYSICAL SERVICE	8@6:4-0	5 <u>4</u>	516	84	10-102	10-316	216	11 @ 6 = 5 4 6	34	######################################	5	716	215	116	162	10-9%	9!316	11-74	11-08	81-816	K62
pan de la companya de	K63 K64	Opp. Hand	10-10=	1	9 @ 6 = 4 - 6 9 @ 6 = 4 - 6	34 316	31/6	8 <del>4</del> 8 <del>4</del>	10-1116	10-48	216	11 @6=5-6	34 48	· · · · · · · · · · · · · · · · · · ·	5		215	126	16½ 16½	10-102	914	11,88	11-12	8108	
2	K65R		11-13	102	9 @6:4-6	44	44	84	11-28	10-716	216			1	-1				T	11-12		+	.j	.,	K65L K66
f I	K66		11-213	102	9@6:4-6	54.	576	84	11-37	10-88	2 16	11@6=5-6	54	516	15	175	216	116	162	111276	9.816	121-08	111.52	9:16	K66



TOP VIEW FOR KI TO K9 INCL., KII TO KIG INCL. & KIS TO KGG INCL.



TOP VIEW FOR KID & KIT



BRACKETS KI TO KGG INCL.

GINERAL NOTES:RIVETS:- 3"P
OPEN HOLES:- 15"P MATERIAL:- Carbon steel A.S.T.M. A7-34 with .2% copper content, except were noted. All holes may be punched full size (a) All holes marked RT are to be subpunched 1/8" small and reamed to size to a metal templet. (b) Field connections of trusses shall be subpunched and reamed after truss is assembled. (c) Holes in main material over 5/8" thick shall be subpunched 1/8" small and reamed to size. (d) Holes in main material over 3/4" thick shall be drilled from the solid.

SHEARED EDGES of main material over 5/8" thick shall be planed to a depth of 1/4" where noted on details. FLAME CUT EDGES of main material shall be planed chipped or ground and present a smooth workmanlike appearance.
One coat of RED LEAD except where noted.

Shop contact surfaces not painted.

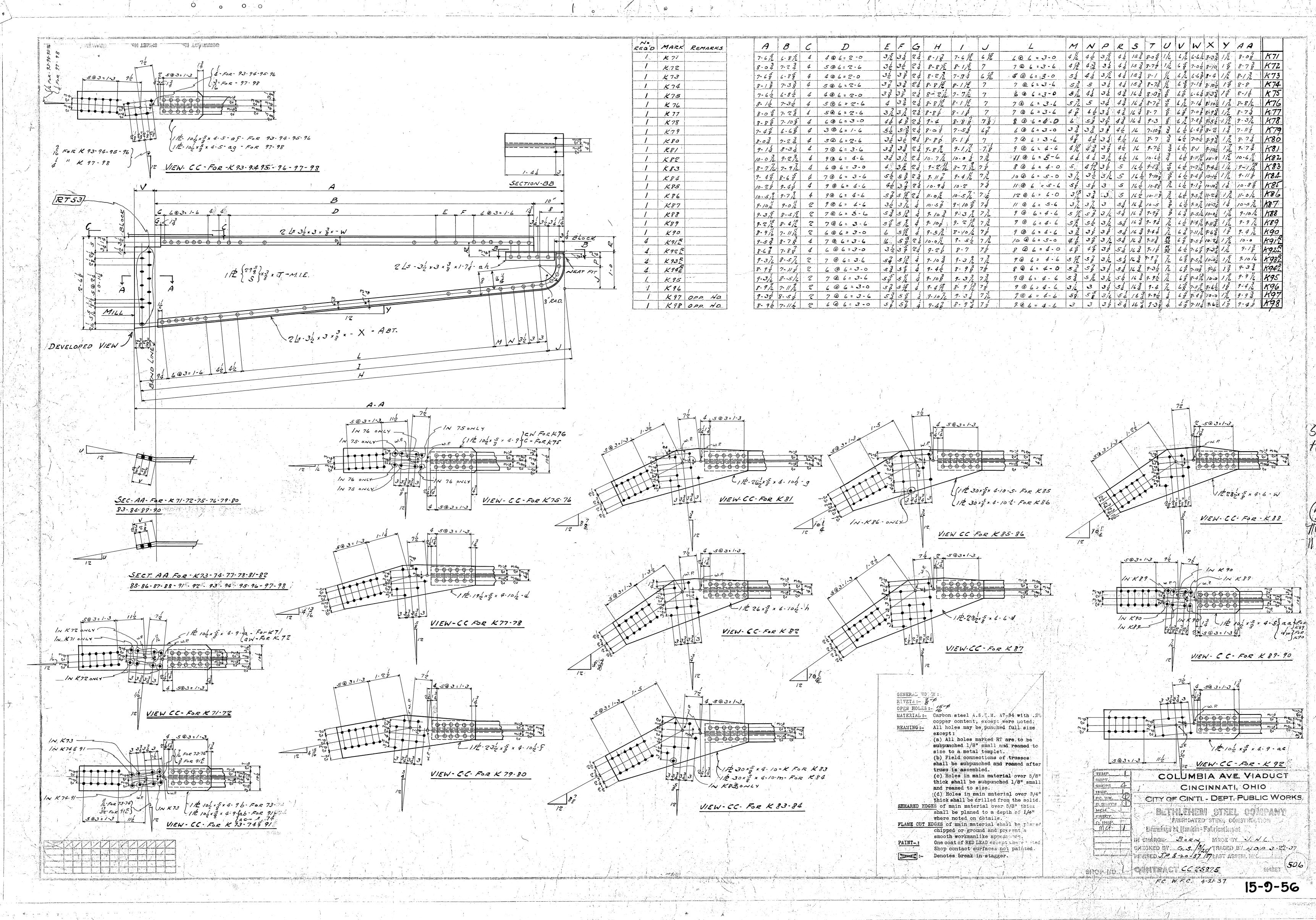
INTERM. BRACKETS FOR SPANS 1 TO 5 INCL. & 12 TO 18 INCL.

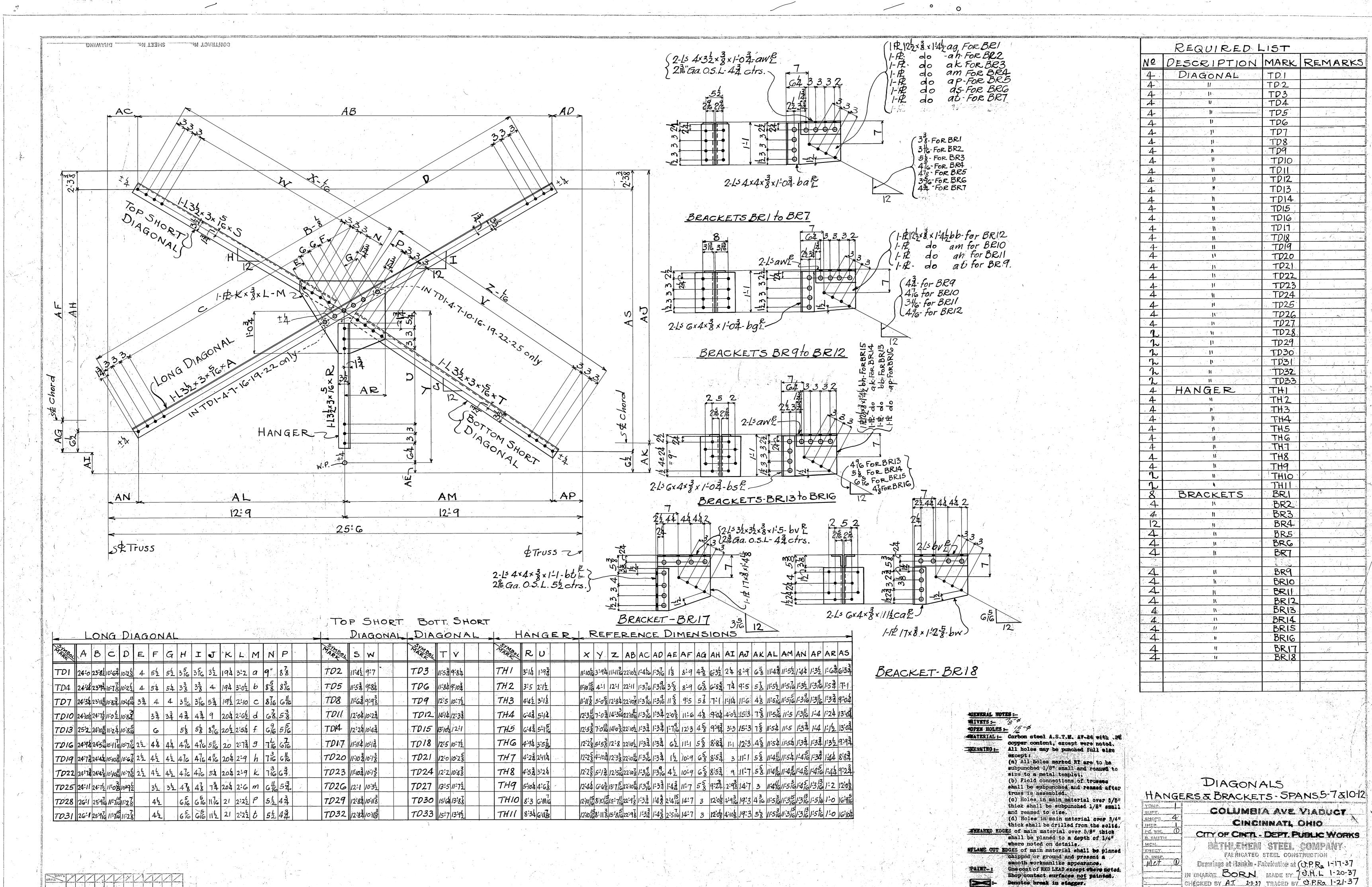
COLUMBIA AVE. VIADUCT CINCINNATI, OHIO CITY OF CIN'TI - DEPT. PUBLIC WORKS estalend stel company Dravings at Bankin-Fabrication at

M CHARGE BORN MADE BY J.H.L. 3-4-37
CHECKED BY G.S. 3/9/37 TRACED BY W.E.B.

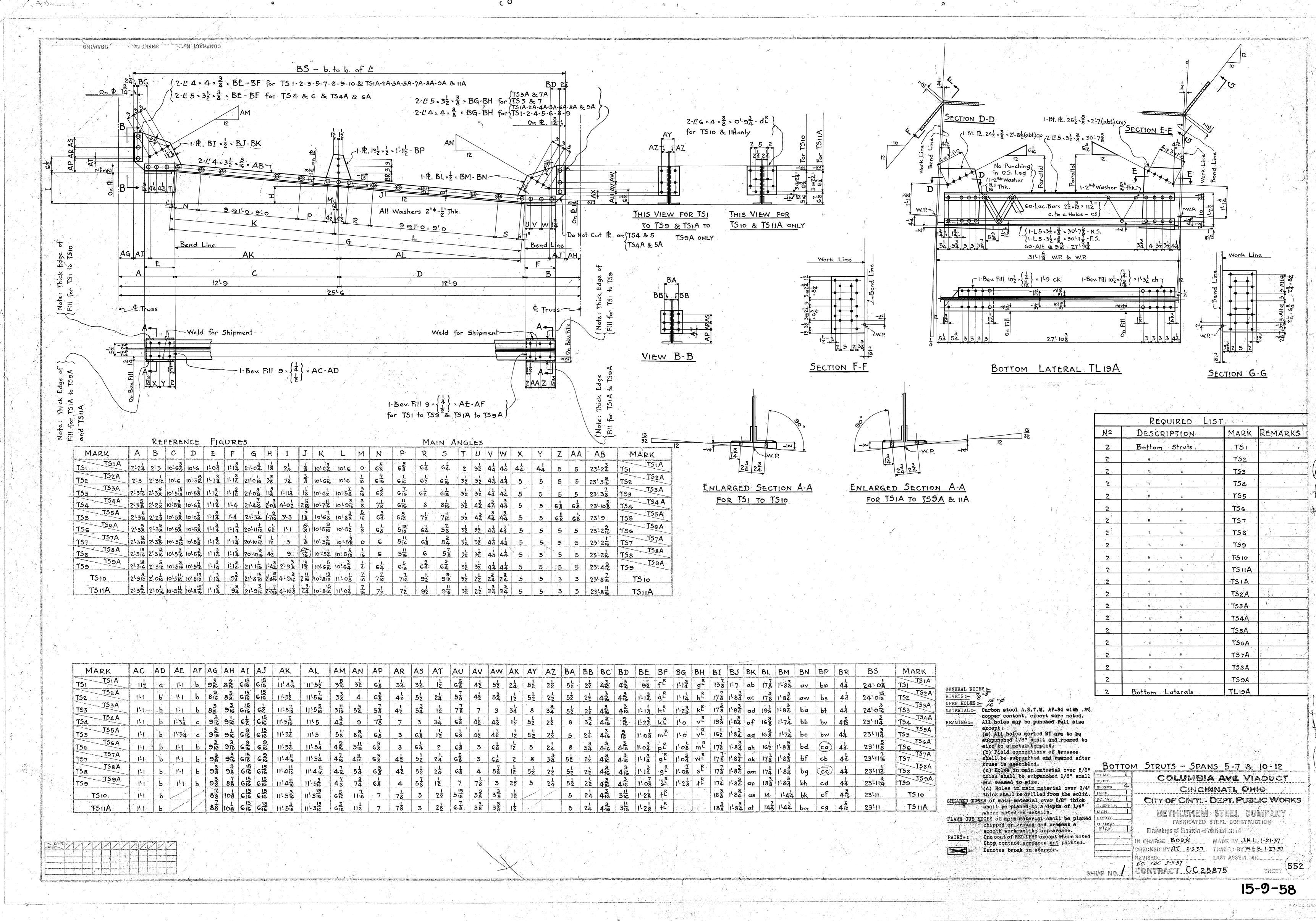
CONTRACT CC25875 F.C. W.F.C 4-21-37

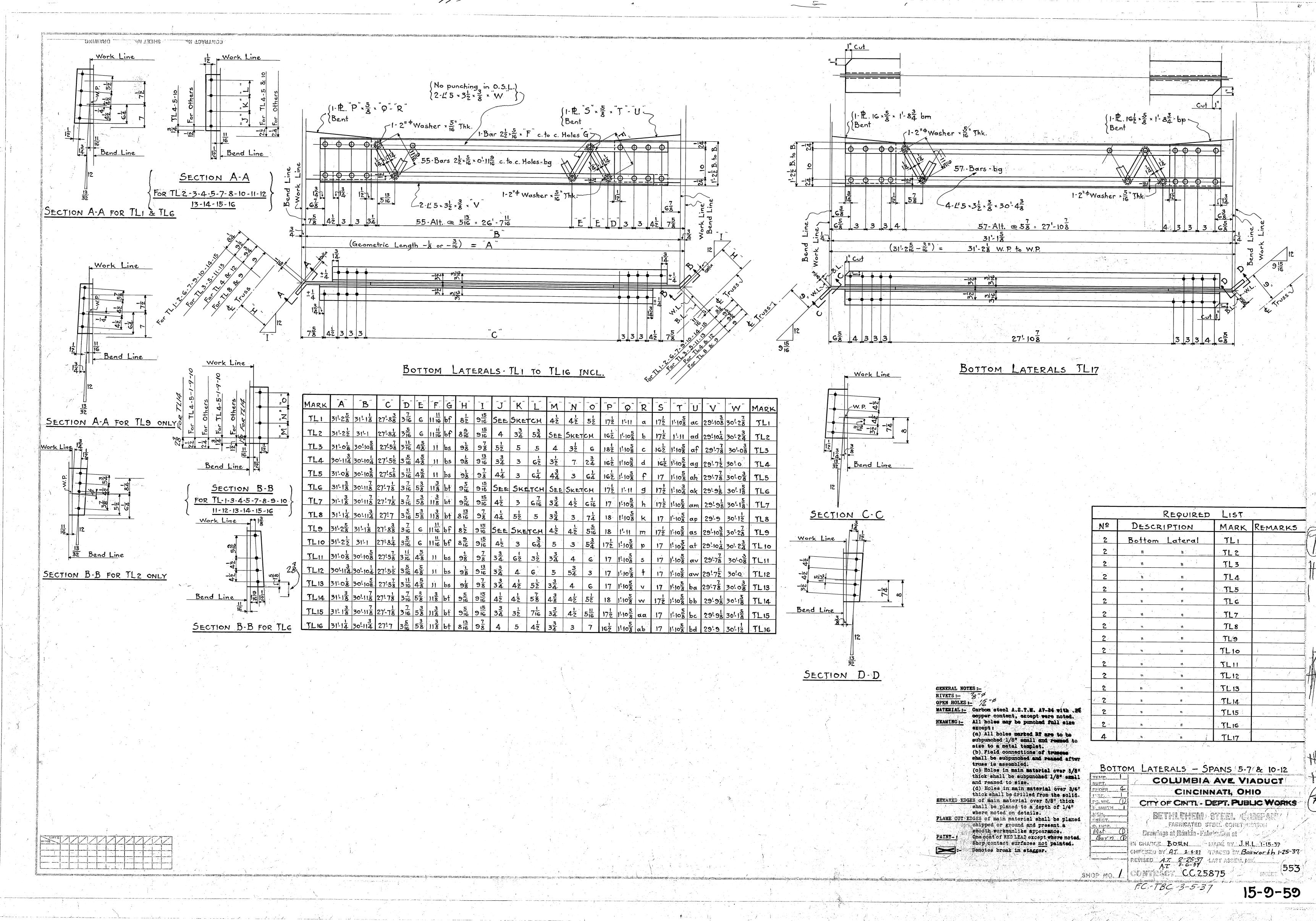
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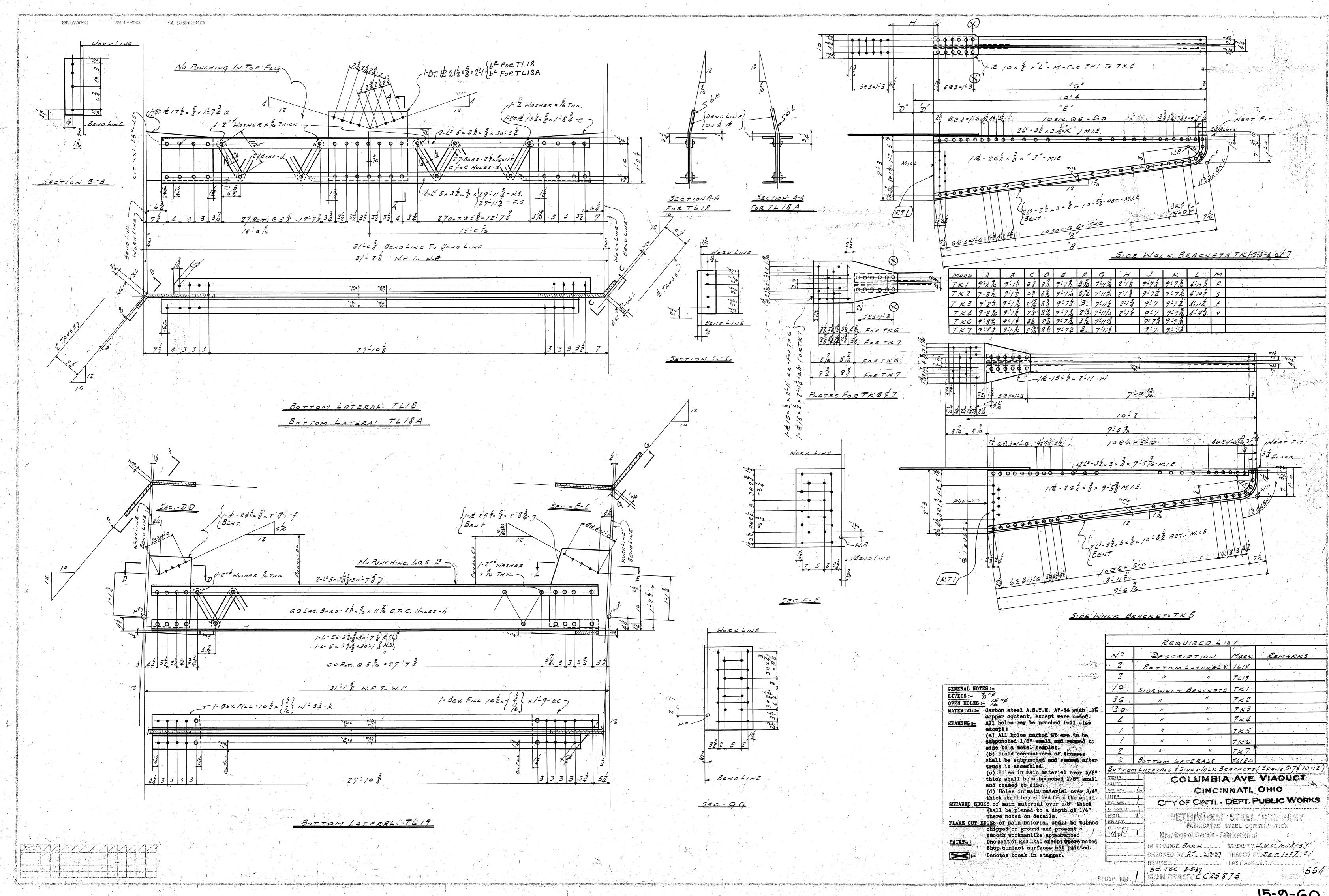




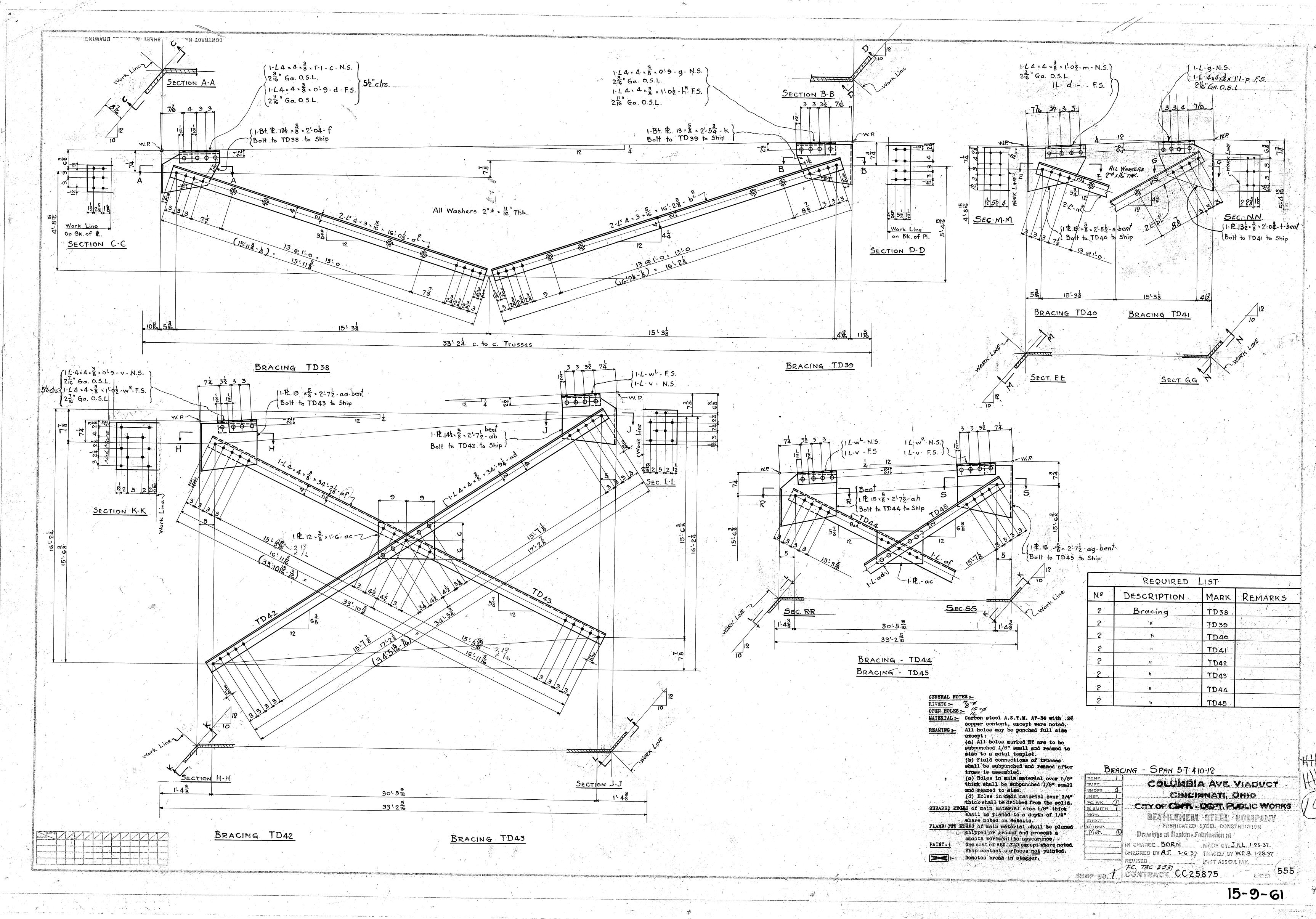
F.C. TBC 3537 CC25875 15-9-57

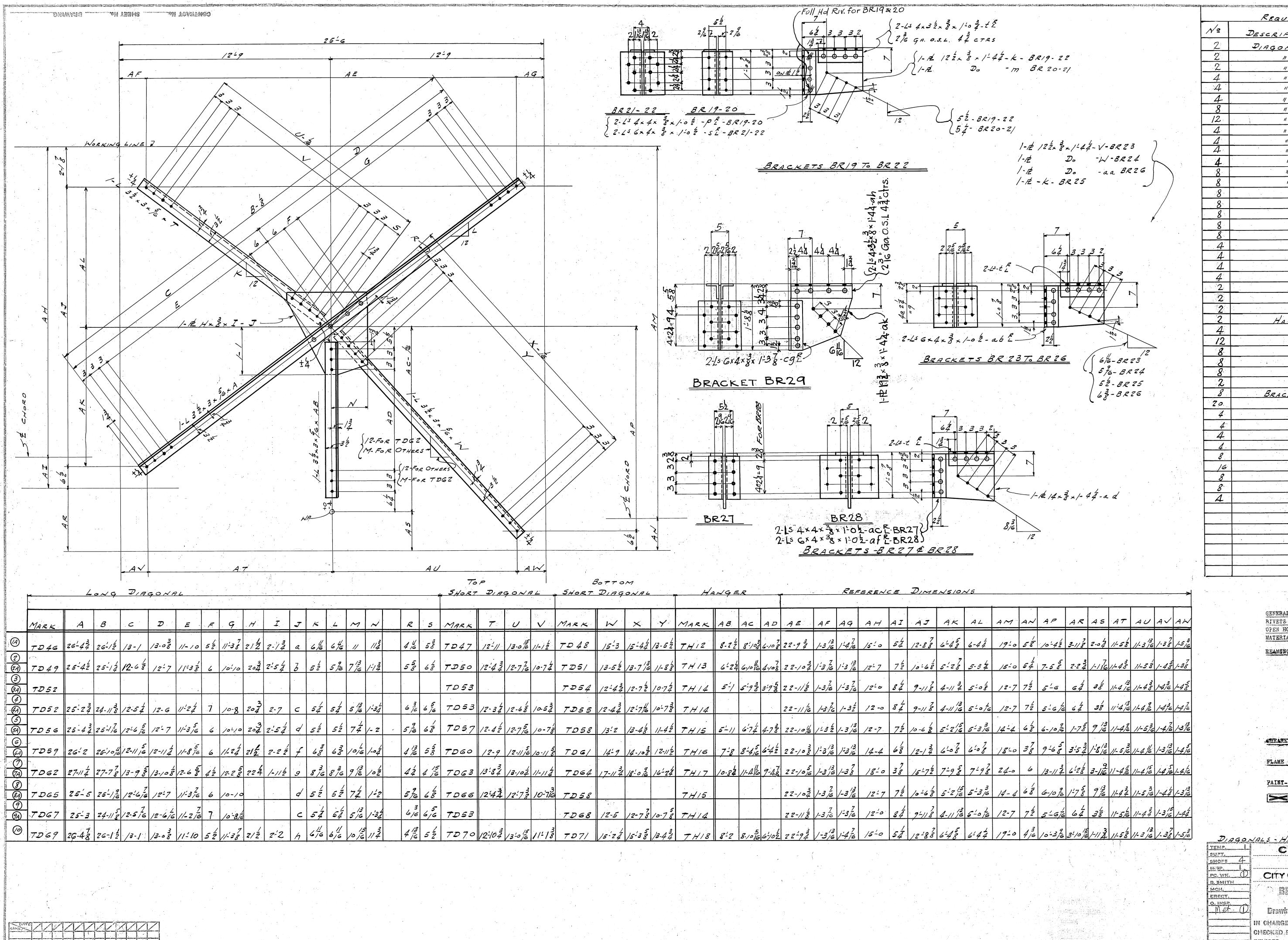






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Ne	DESCRIPTION	MARK	REMARK
2			
2	DIAGONAL	TD 46	
$\frac{2}{2}$	"	TD 48	
$\frac{\tilde{4}}{4}$	// // // // // // // // // // // // //	7049	
4	· · · · · · · · · · · · · · · · · · ·	7050	
4	1/	705/	
8	//	7052	
12	1	7053	
4	//	7054	
4	<i>II</i>	TD55	
4	· // * ********************************	TD 56	
4	И	7057	
8	Л	TD 58	a de la companya de l
8	u .	7D59	
8	11	7060	
8	и	TD6/	in the state of th
8	u u	7062	LL LINE
8	<b>y</b>	7063	y
8	<u>"</u>	7064	
4	//	7065	
4	4	7766	
4	,	7067	
$\frac{4}{2}$	η' η'	TD68	
$\frac{2}{2}$	<i>y</i>	TD69	
2	· ·	7070 707/	1.
2	HANGER	TH12	
4	7/4/3/3/4	TH 13	
12	"	7H 14	, which is
8	· · · · ·	TH15	
8	<b>//</b>	TH/6	
8	1/	TH 17	
2	<i>II</i>	TH 18	
8	BRACKETS	BR19	
20	1	BR 20	
4	1	BR 2/	
4		BR 22	
4	<b>J</b>	BR 23	
4	#	BR 24	
8	<i>y</i>	BR25	
16	η	BR 26	
8	//	BR27	
8	<i>II</i>	BR28	
4		BR29	
			1
			<u> </u>

GENERAL NOTES :- 3 ¢

OPEN HOLES:- 3 ¢

MATERIAL:- Carbon steel A.S.T.M. A7-36 sich .2%

copper content, except were noted.

All holes may be punched full size except:

(a) All boles marked RT are to be exbpunched 1/8" small and reamed to size of trueses eball be exbpunched and reamed after trees is assembled.

(b) Field competions of trueses eball be exbpunched and reamed after trees is assembled.

(c) Boles in main material over 5/8"

Chick shall be subpunched 1/8" small and reamed to size.

(d) Holes in main material over 3/4"

thick shall be drilled from the solid.

EHEARED STEES of main material over 5/8" thick shall be planed to a depth of 1/4" where noted on details.

FLAME CUT EDGES of main material shall be planed chipped or ground and present a smooth workmanlike appearance.

PAINT -: One coat of RED LEAD except where noted.

Shop contact surfaces not painted.

Denotes break in stagger.

DIAGONALS HANGERS BRACKETS SPAN 7-10
TEMP L COLUMBIA AVE VIADUCT
SHOPS 4 CINCINNATI, OHIO.
FC. WE. D. CITY OF CINTI - DEPT. PUBLIC WORKS
B. SMITH

RETAILED STEEL CONSTRUCTION

FABRICATED STEEL CONSTRUCTION

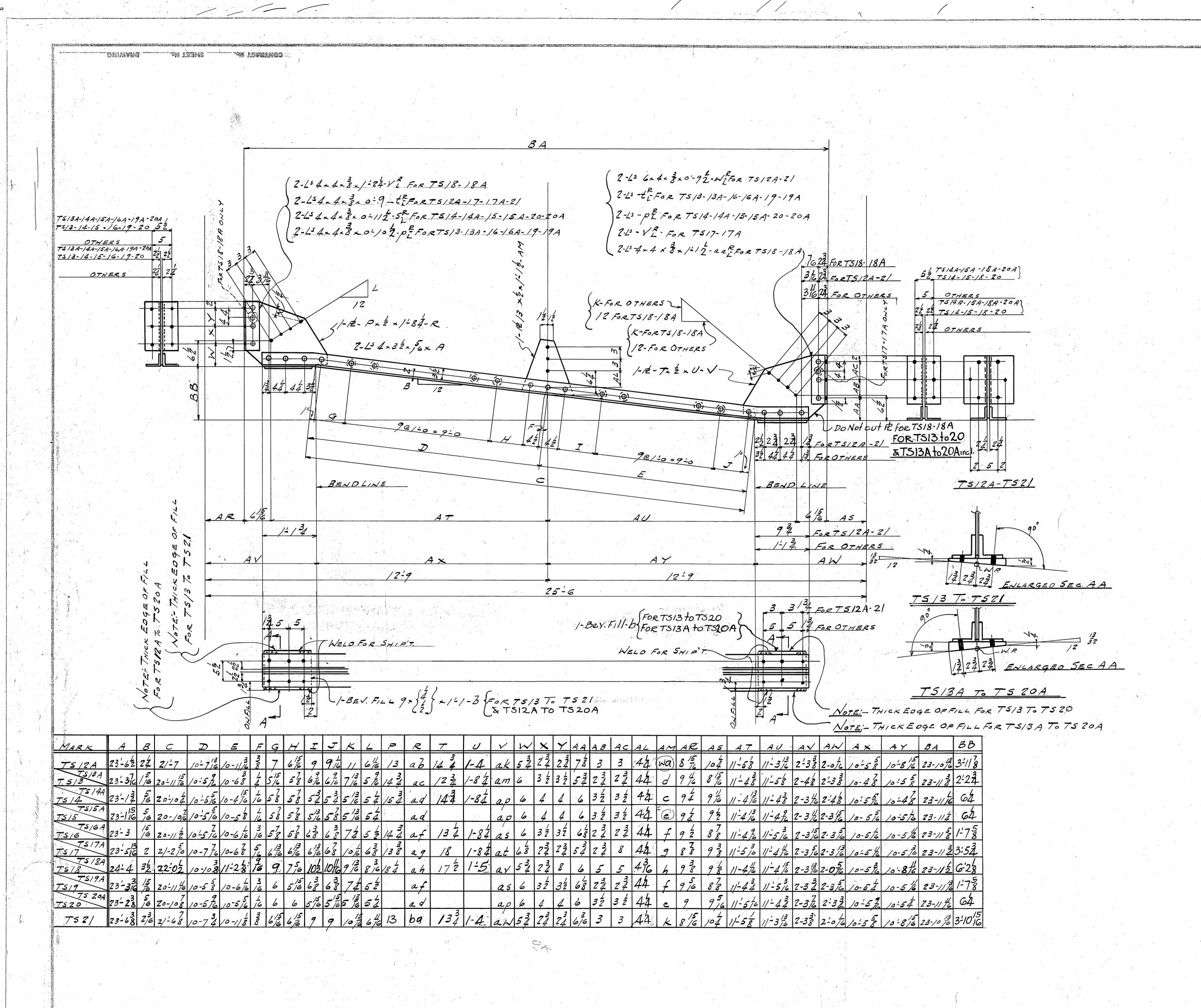
Drawings at Markin - Fabrication at

CHARGE BARRY - MARKE EV TOP 1-26-37.

IN CHARGE BORN MADE BY JRR. /-26-37
GHECKED BY AT. 126-37
REVISED LAST ASSEM, MK.

. 1 CONTRACTCC25875

F.C. TBC 5/14/37



	REQUIRED LIST		
1/2	DESCRIPTION	MARK	REMARK
2	BOTTOM STRUTS	T5 /3	
2	//	T5 /4	
Z	//	T5 /5	
2	<i>y</i>	75/6	
4	//	T5/7	
4	11	T5/8	
2		T519	
2	11	7520	
2	11	752/	
2	11	T5/2A	
2	11	TS/3A	.0
2	1	TS 14A	
2	1	TS 15 A	
2	1	T5/6A	
4		T5/7A	
4		T5/8A	
2	11	T5/9A	
2	11	TS 20A	La Company

GEFERAL BOTES ...
RIVETS:- 7/8" &
OPEN HOLES:- 15/16" \$

MATERIAL:- Carbon steel A.C.T.E. AV-84 500 .22

copper combent, except care notes. All holes may be punched fall seem (a) All boles seated RT are to See subprached 1/8° contl and remark to else to a motal templet.
(b) Field connections of tempers chall be subpunched and result for (6) Holes in main material osco 3/60 62011

and reamed to size. (d) Holes in main material over act. chall be planed to a depth of 1/40 where noted on details.

PLANE CUT EDGES of main material shall be planed obipped or ground and present a smooth works Tike appearance.

One cont of RED LEAD except where noted. Shop contact surfaces not painted. : Denotes break in stagger.

BOTTOM STRUTS - SPAN - 7 TO 10 COLUMBIA AVE VIADUCT

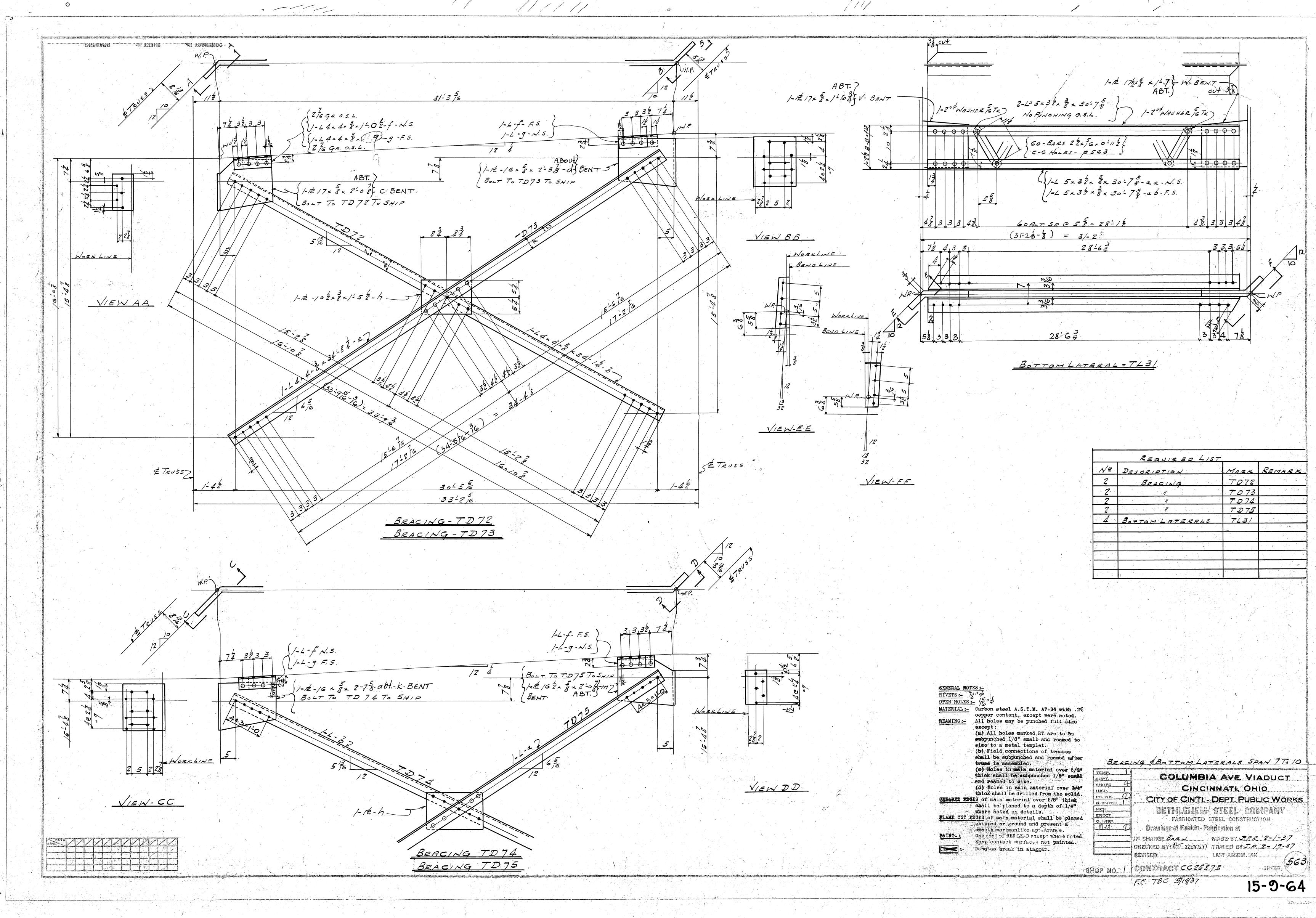
SHOPS - 4 CINCINNATI, OHIO CITY OF CINTI - DEPT. PUBLIC WORKS O. SMITH

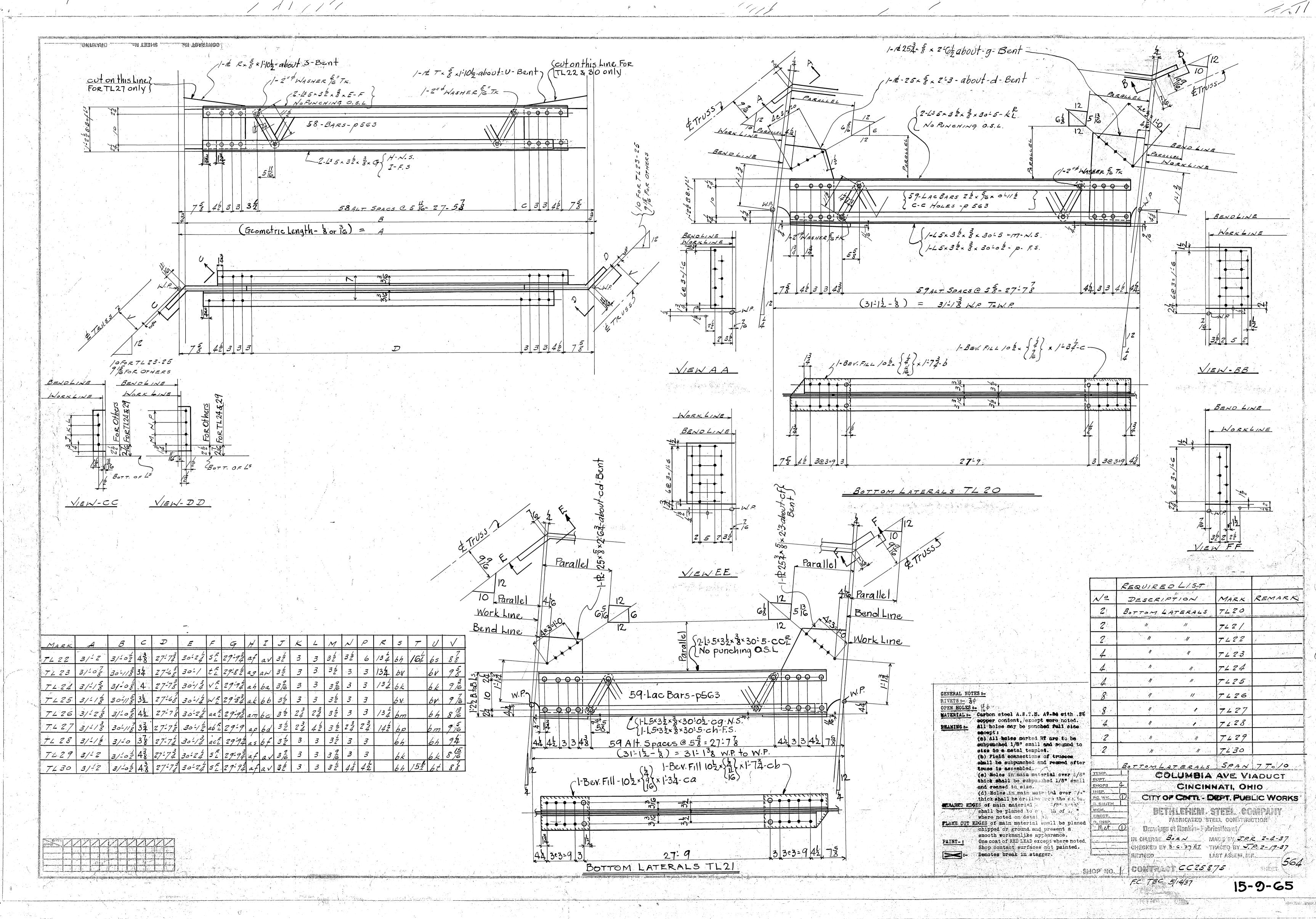
BETHLEHEM STEEL COMPANY FABRICATED STEEL CONSTRUCTION Dravings at Rankin - Fabrication at

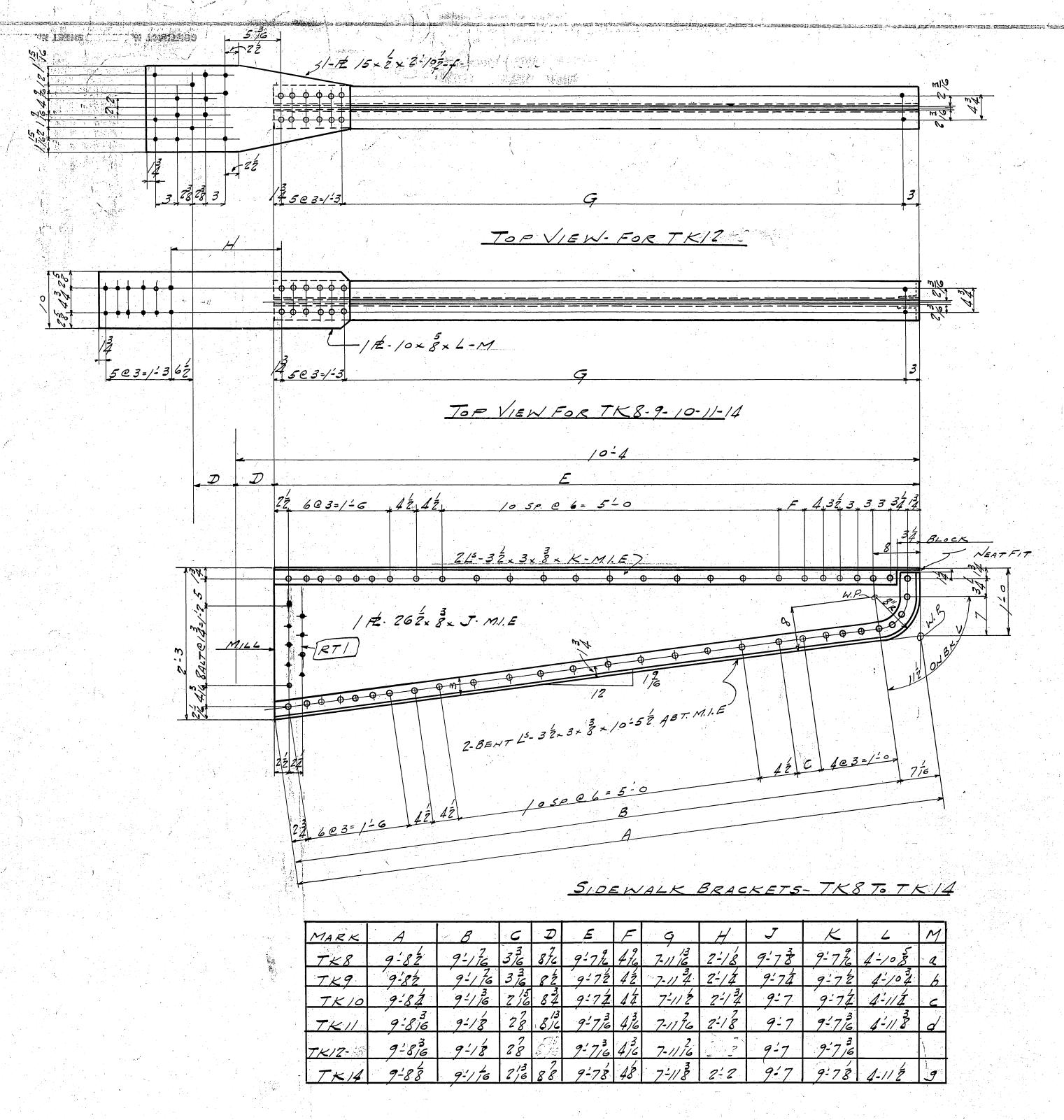
IN CHANGE BORN MADE BY J.P.R. 1-29-37 CHECKER BY ATT 2255377 TRACED BY J.P 2-18-37

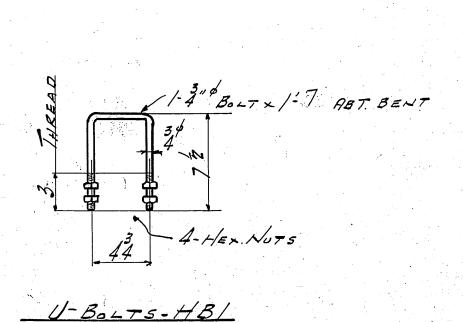
9110P NO. / CONTRACT CC 25875

F.C. TBC 5/14/37









FOR SIDEWALK BRACKETS.

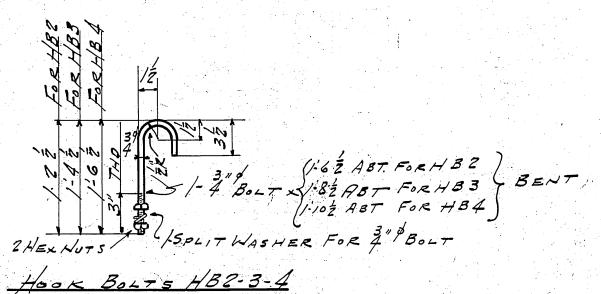
47-BOLTS-FOR I INST.

30 " FOR A INST.

28 " FOR S INST.

32 " FOR & INST.

42 FOR T INST.



HOOK BOLTS HB2-3-

457	482	483	484	
1000	4	8	12	
4	2	4	6	
6 /	2	4	6	
7	4	8	112	

TKIO TKI 174 U-BOL75 RIVETS :- 78"6 OPEN HOLES 80 MATERIAL:- Carbon eteel A.S. P.E. A7-SA with . 2% copper content, except were noted.
All holes may be punched full size egoept: (a) All boles marked RT are to be subpuncted 1/8" small and reamed to eige to a metal templet. (b) Field connections of trusses SIDEWALK BRACKETS AND shall be subpunched and reamed after -- 55 CF 777 815 T 12 truss is assembled.

terms its according to the state of the stat

shall be subpunched and reamed after truss is assembled.

(c) Holes in main material over 5/8" thick shall be subpunched 1/8" small and reamed to size.

(d) Holes in main material over 3/4" thick shall be drilled from the solid.

SELARED EDGES of main material over 5/8" thick shall be planed to a depth of 1/4" where noted on details.

where noted on details.

FLASE CST EDGIS of main material shall be planed chipped or ground and present a smooth cormanitie aprearance.

PAIMOS COMO COMMON BUT LEAD except whose noted.

HOOK	50 4	-75		~2°5	10	/-/-/	10	9	0 1	0 1	- 6	
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INSF. 1				INC	. I P	NA	11,	U	416	J	ر سديونات و عالم	
PC. WK. D	3	~~~	OF C	a <b> 03-77-</b> 4		)Æ.D.	r 🗀	1 16	) I I	~ W	00	W C
B. SMITH			ب جن	114 61	• •	/ <b>C</b> .	1 '0' 1	<b>U</b> L	71-1	<b>⊌</b> ♥ ♥	<b>9</b> 14	7 3 6
MCH.	9	旗		B'LE		CATTO	77923		ANA	/*** Z		
ERECT.	25.7				7				·			
O. DEE.			FAL			TELL		#3°F				
C.M. K. K.	ĝ.			malika da						642-1		

REQUIRED LIST

SIDE WALK BRACKETS TK8

DESCRIPTION

PAINTS: One coat of RED LEAD except where noted.

Shop contact surfaces not painted.

Claude Decedes break in stagger.

Claude Decedes break in stagger.

E.C. 7BC 5/437

15-9-60

MARK REMARKS