

BLAIR ROAD SUBSTATION
HARRIMAN UTILITIES BOARD

STEEL DRAWINGS

MCHWORTER & FRANKLIN ENGINEERS

BLAIR ROAD SUBSTATION
HARRIMAN UTILITIES BOARD

MCHWORTER & FRANKLIN ENGINEERS

McWHORTER & FRANKLIN ENGINEERS
NASHVILLE, TENNESSEE

2117 FRANKLIN ROAD 37204

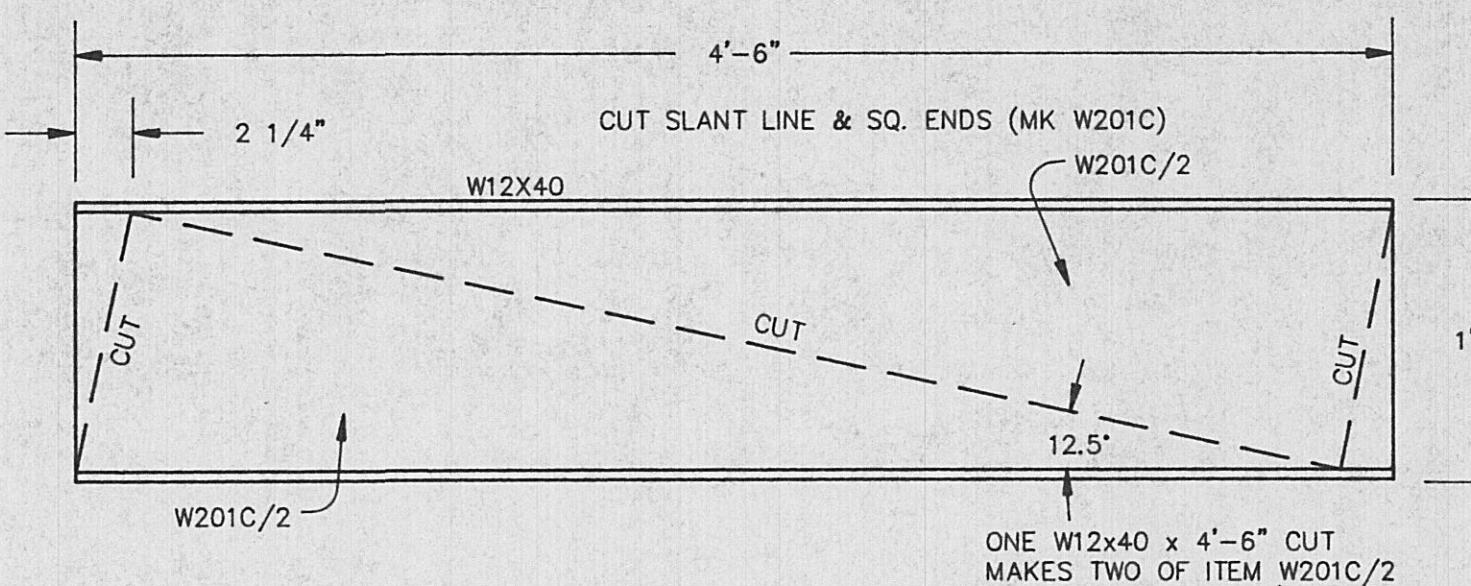
TELEPHONE (615) 298-3338

220 18 62
Dolores

525
JULY-64

350 15 15
Dolores
Chenoweth

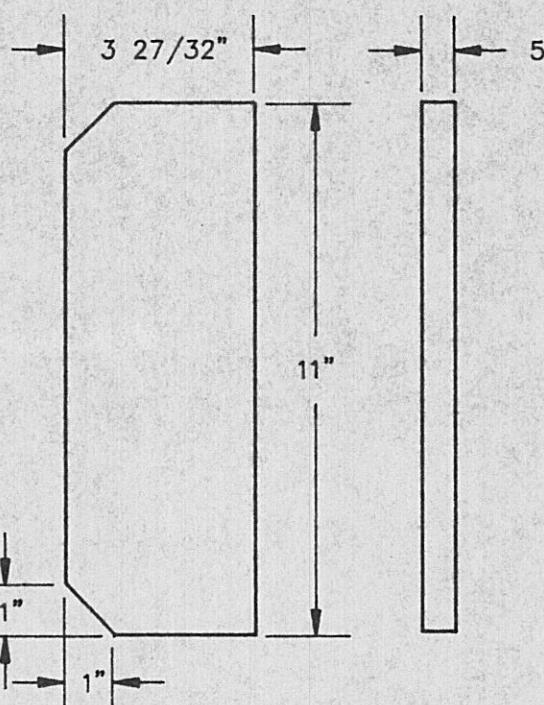
350 15 15



DET. #56b W201C (W BEAM)

1-REQ'D FOR EACH
ASSEMBLY B3A

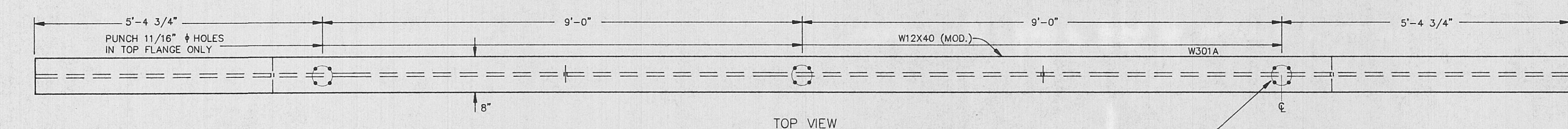
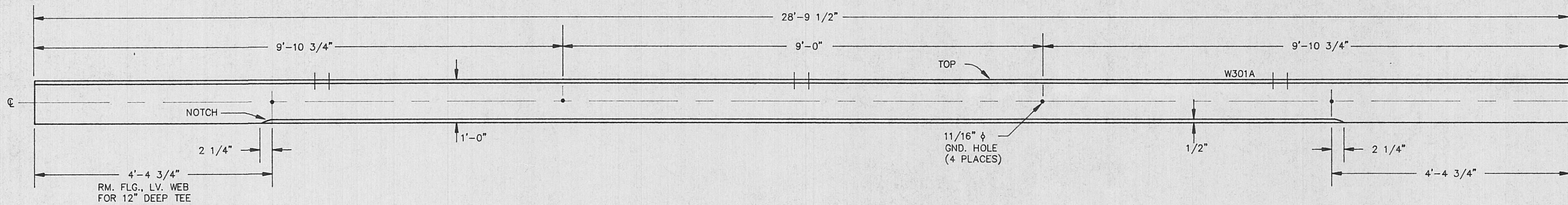
SCALE: 1/8"=1"
MATL: W12 x 40 x 4'-6" LONG (CUT)
(MAKES 2 EA. W201C/2)



DET. #55b SP (STIFFENER PLATE)

6-REQ'D FOR EACH
ASSEMBLY B3A

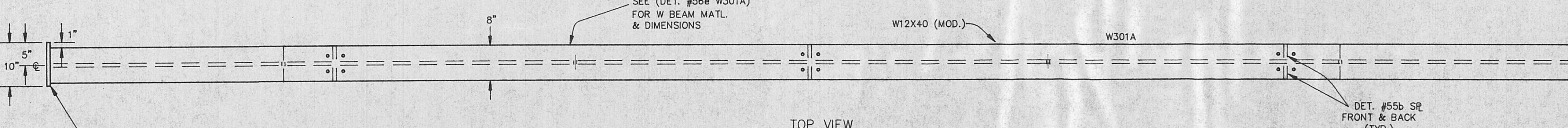
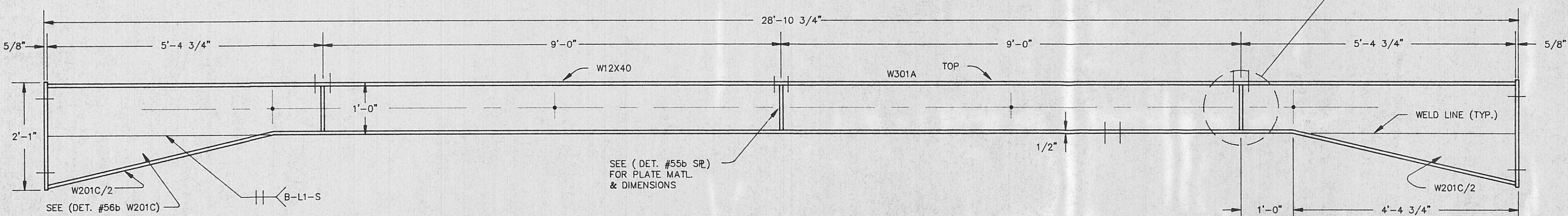
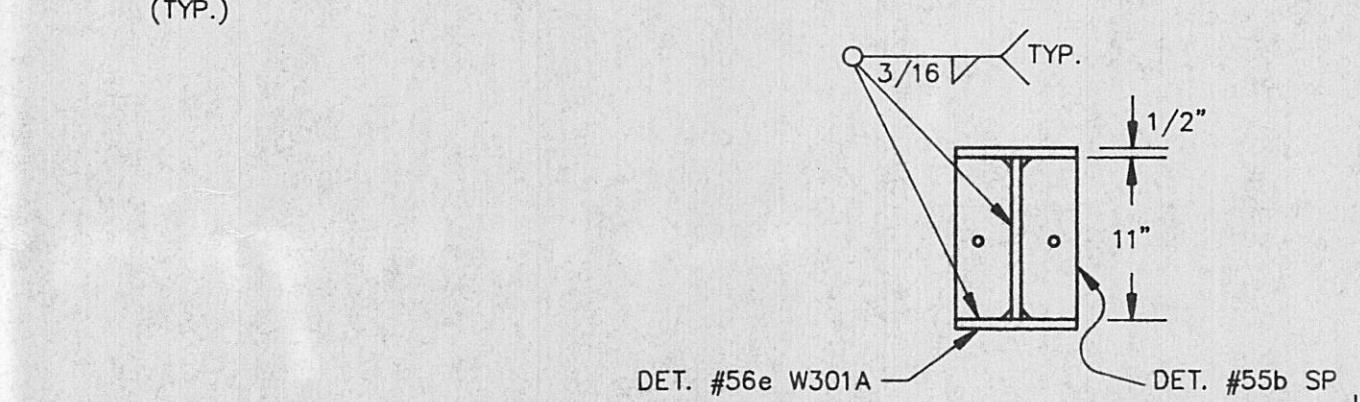
SCALE: 1/4"=1"



DET. #56e W301A (W BEAM)

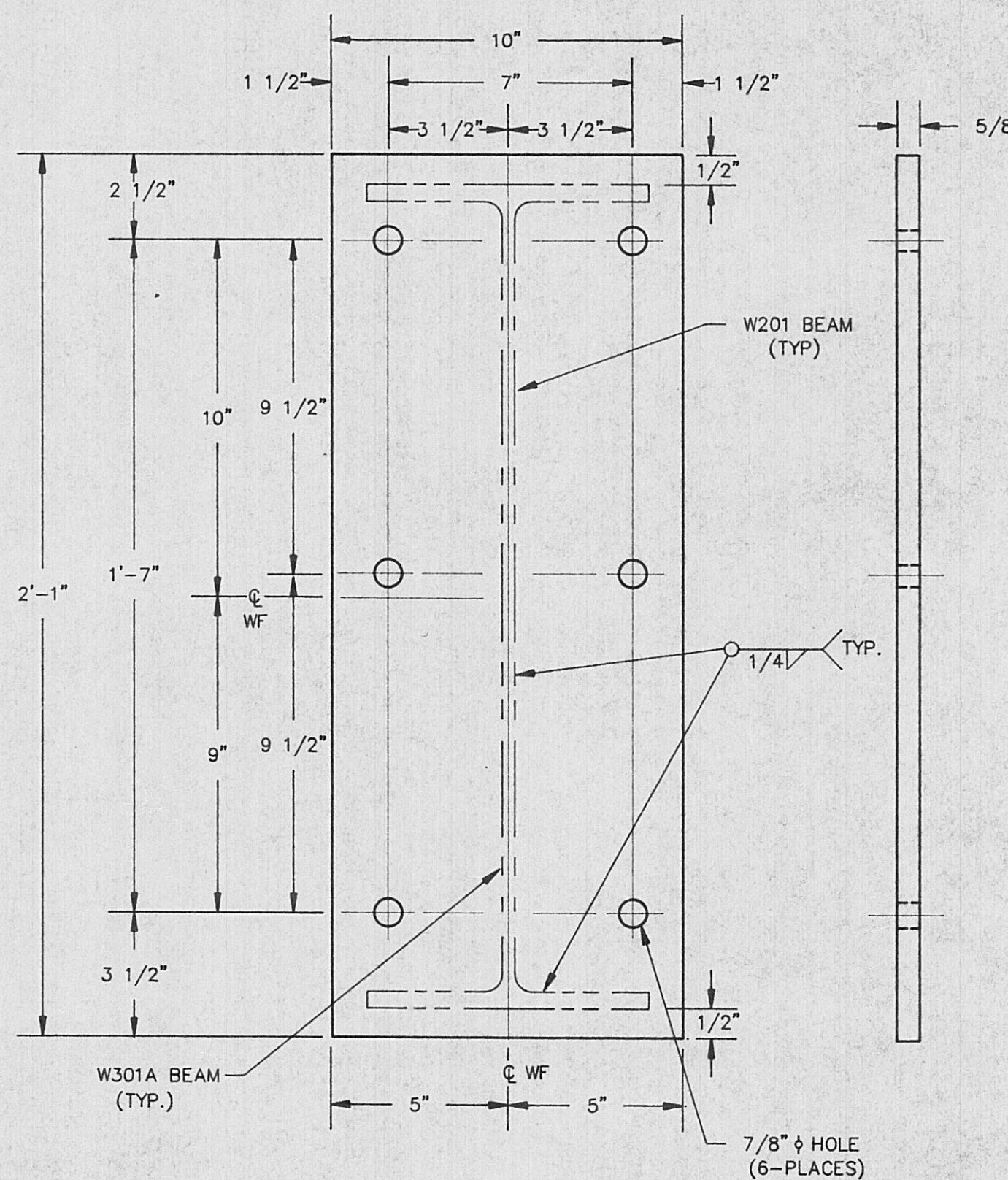
1-REQ'D FOR EACH
ASSEMBLY B3A

SCALE: 3/4"=1'-0"
MATL: 12 x 40 x 28'-9 1/2" LONG



ASSEMBLY #B3A (W BEAM)

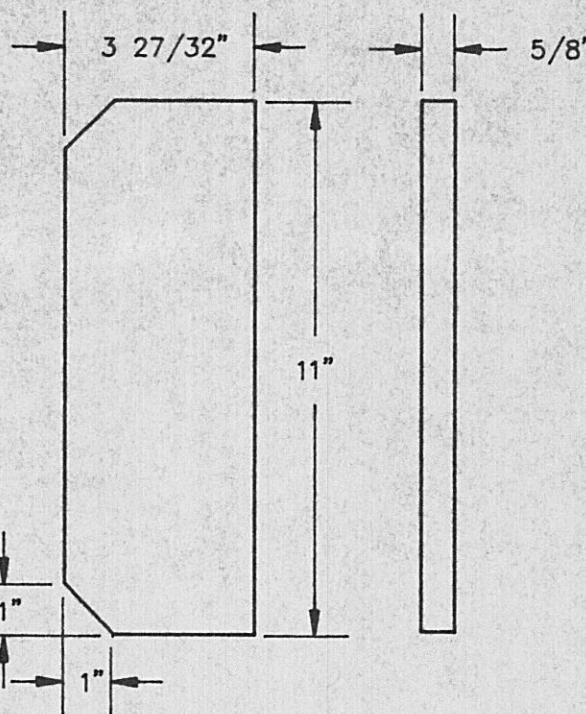
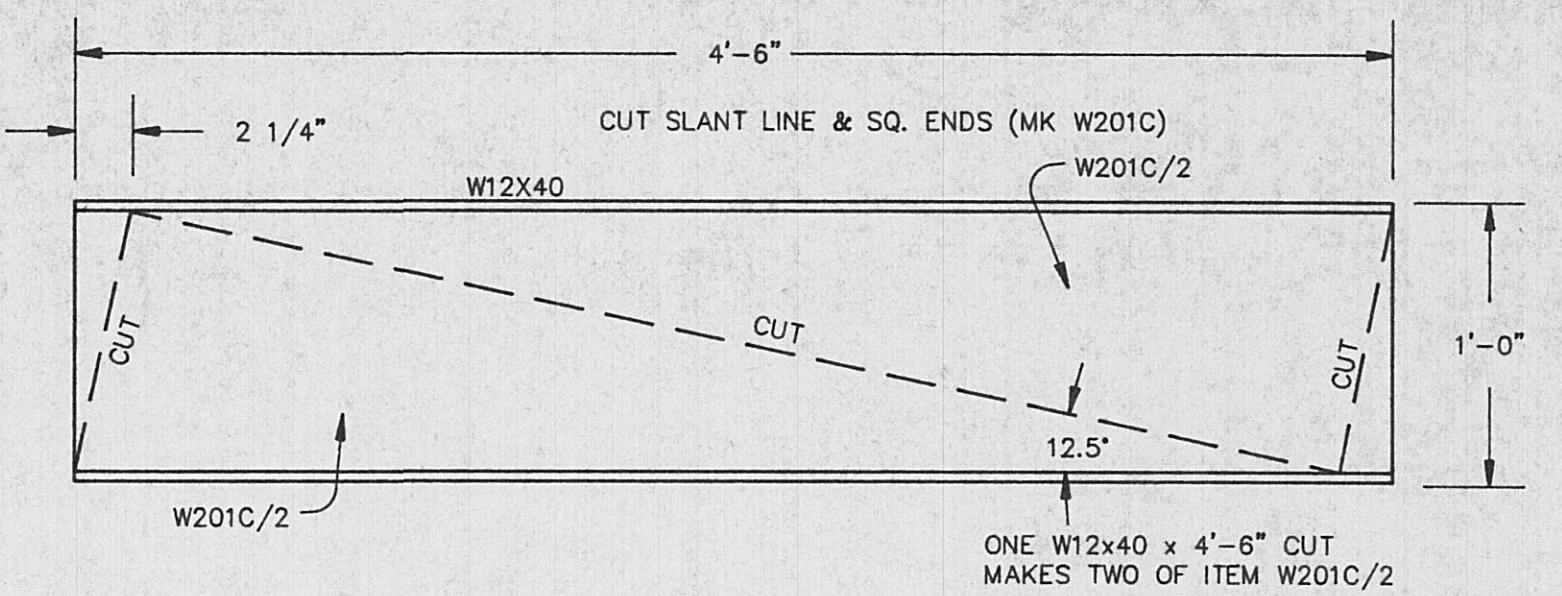
4-REQ'-D
SCALE: 3/4=1'-0"



DET. #57a B2EPP (END PLATE)

2-REQ'D FOR EACH
ASSEMBLY B3A

SCALE: $1/4"=1"$
TL: $5/8" \times 10" \times 2'-1"$ LONG PLATE



DET. #56b W201C (W BEAM)

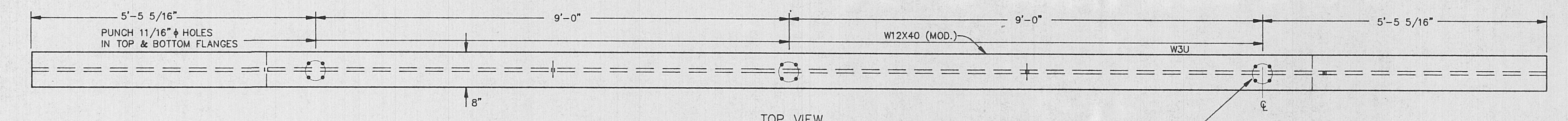
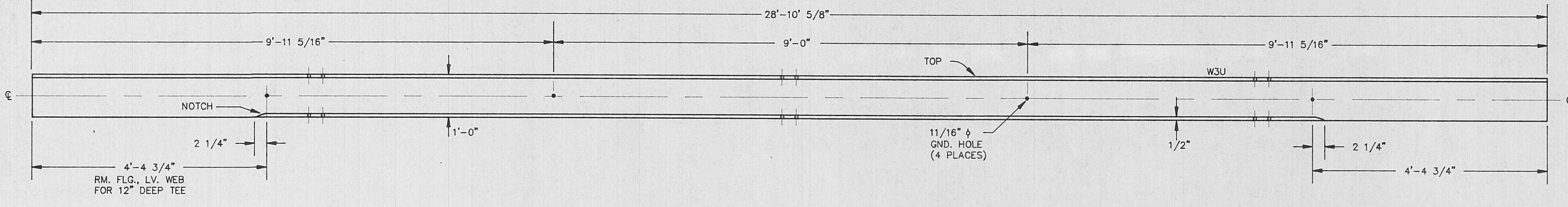
1-REQ'D FOR EACH
ASSEMBLY B3U

SCALE: 1/8"=1"
MATL: W12 x 40 x 4'-6" LONG (CUT)
(MAKES 2 EA. W201C/2)

DET. #55b SP (STIFFENER PLATE)

6-REQ'D FOR EACH
ASSEMBLY B3U

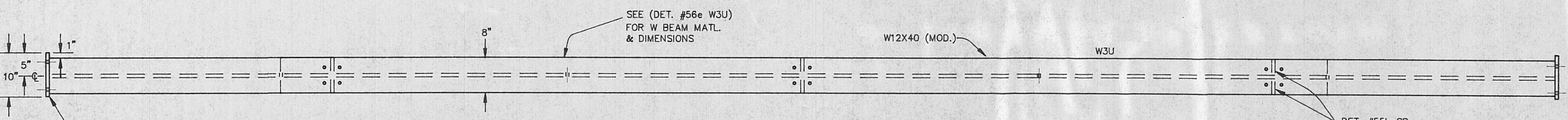
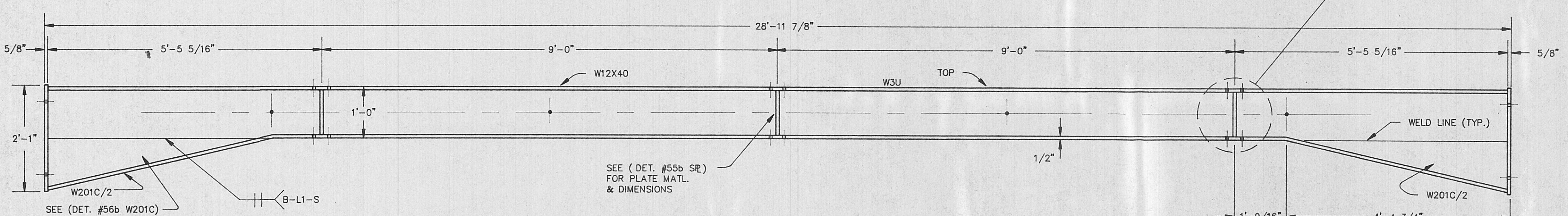
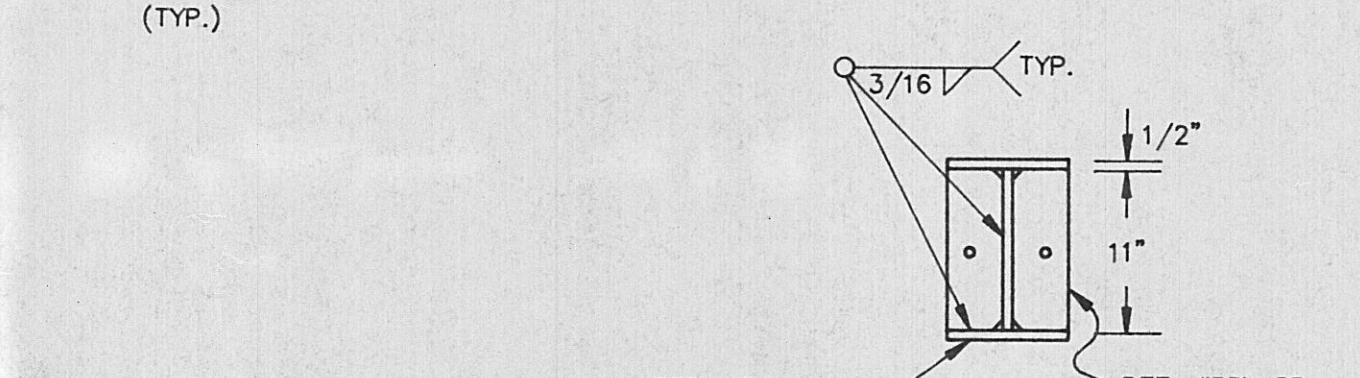
SCALE: 1/4"=1"
MATL: 5/8" x 3 27/32" x 11" LONG PLATE



DET. # 56e W3U (W BEAM)

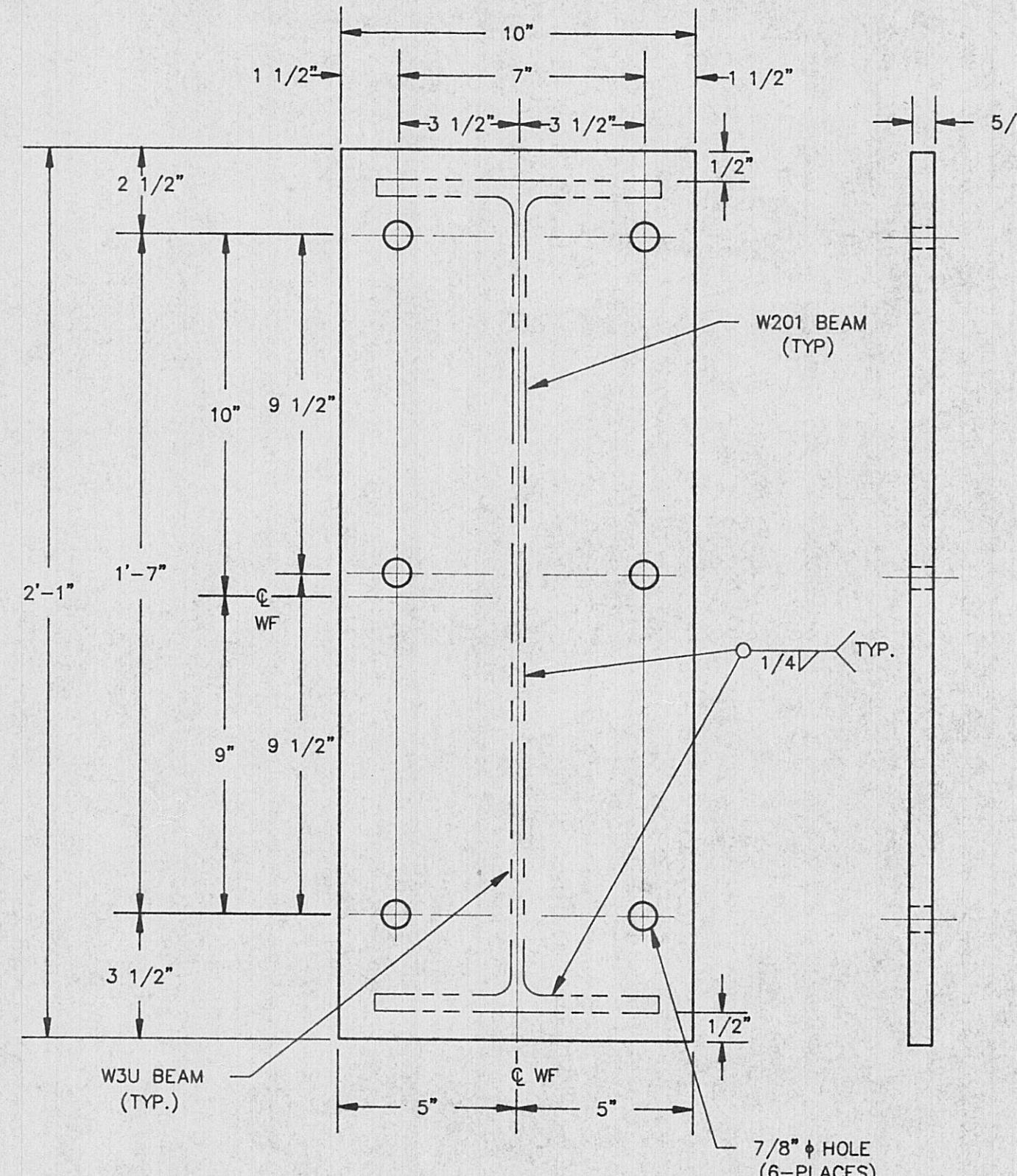
1-REQ'D FOR EACH
ASSEMBLY B3U

SCALE: 3/4"=1'-0"
MATL: 12 x 40 x 28'-10 5/8" LONG



ASSEMBLY #B3U (W BEAM)

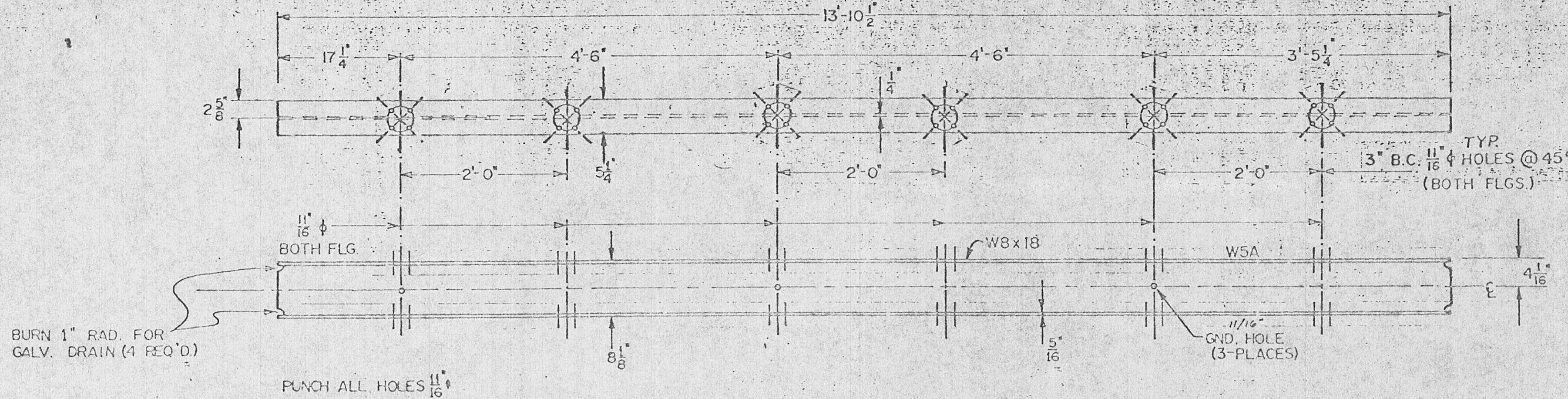
3 -REQ'D
SCALE: 3/4"=1'-0"



DET. #57a B2EPP (END PLATE)

2-REQ'D FOR EACH
ASSEMBLY B3U

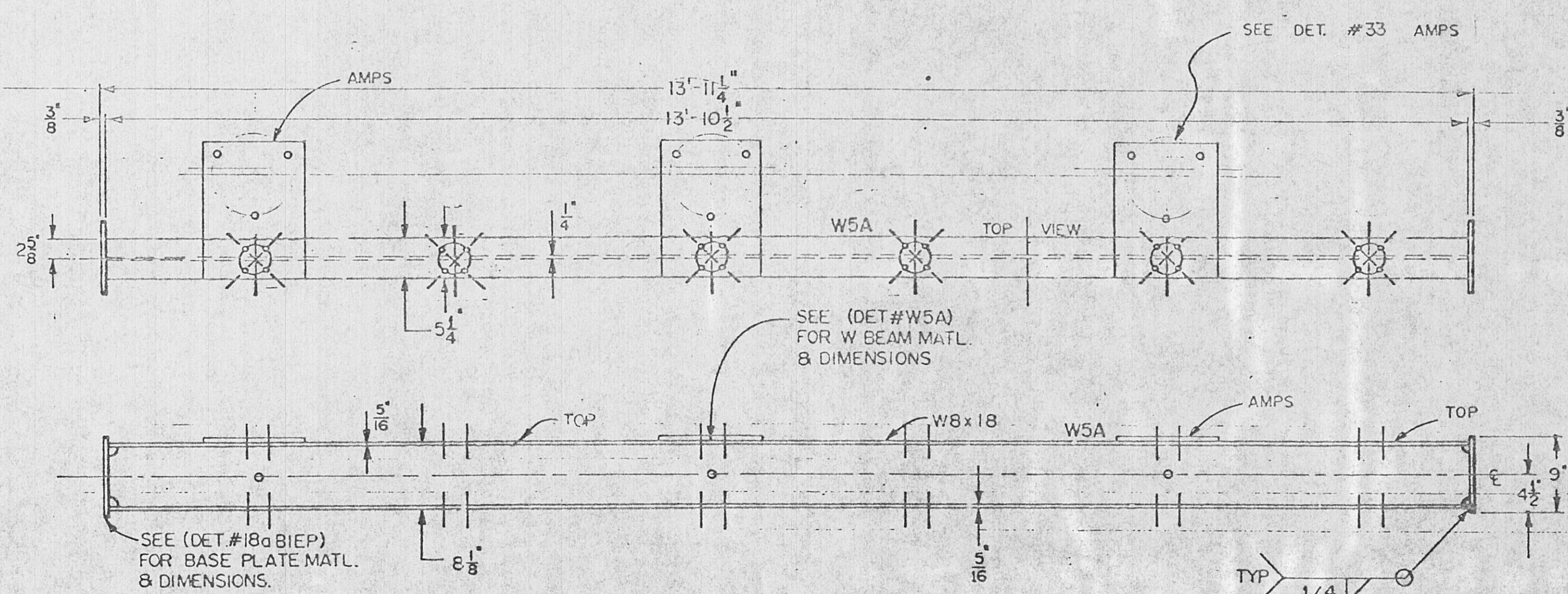
SCALE: 1/4"=1"
MATL: 5/8" x 10" x 2'-1" LONG PLATE



DET. # W5A (W BEAM)

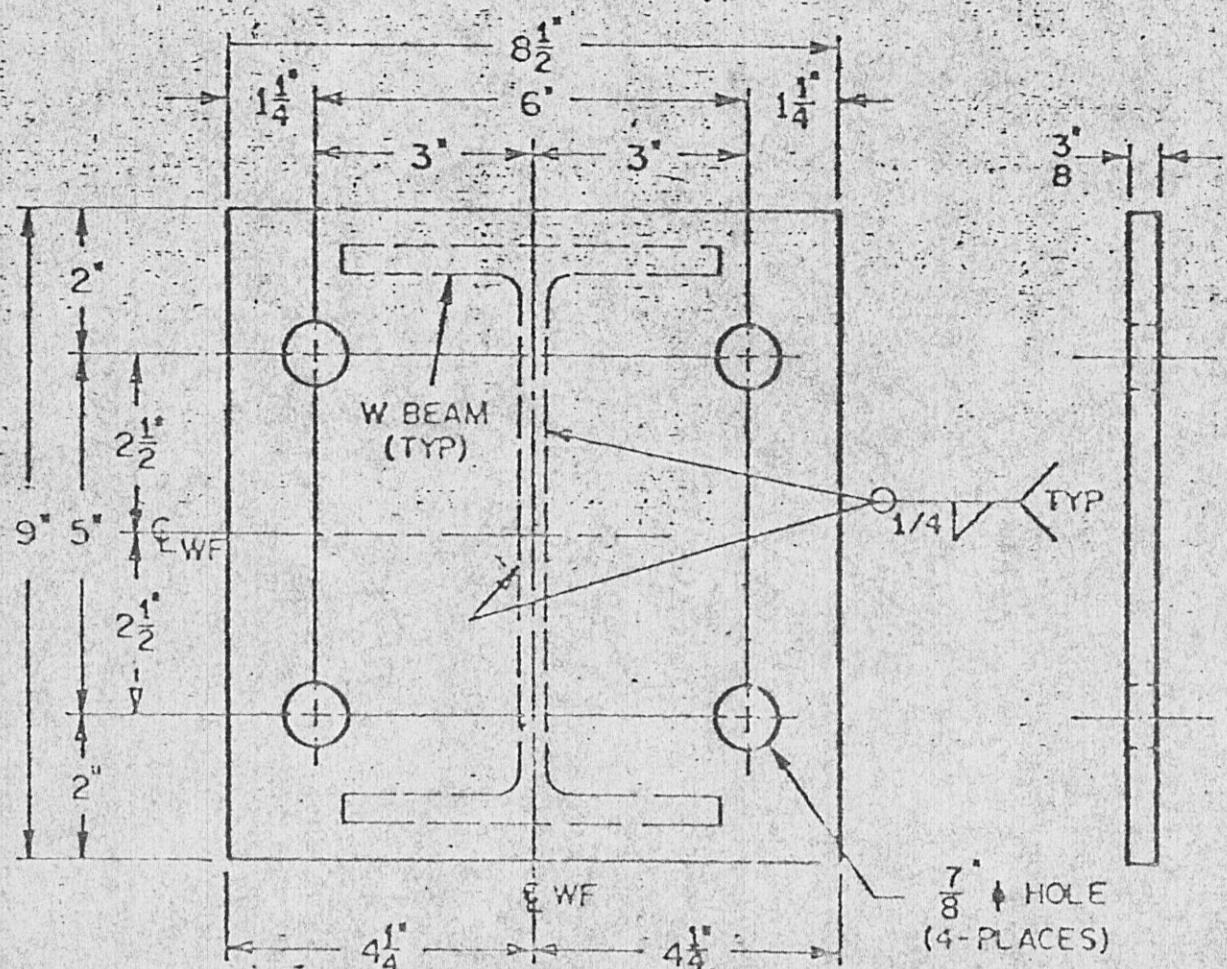
1 REQ'D FOR EACH
ASSEMBLY B5A

SCALE: 1" = 1'-0"
MATL. W8x18x13'-10-1/2" LONG



ASSEMBLY #B5A (REG. & MOB.
SP. BEAM-ARR.)

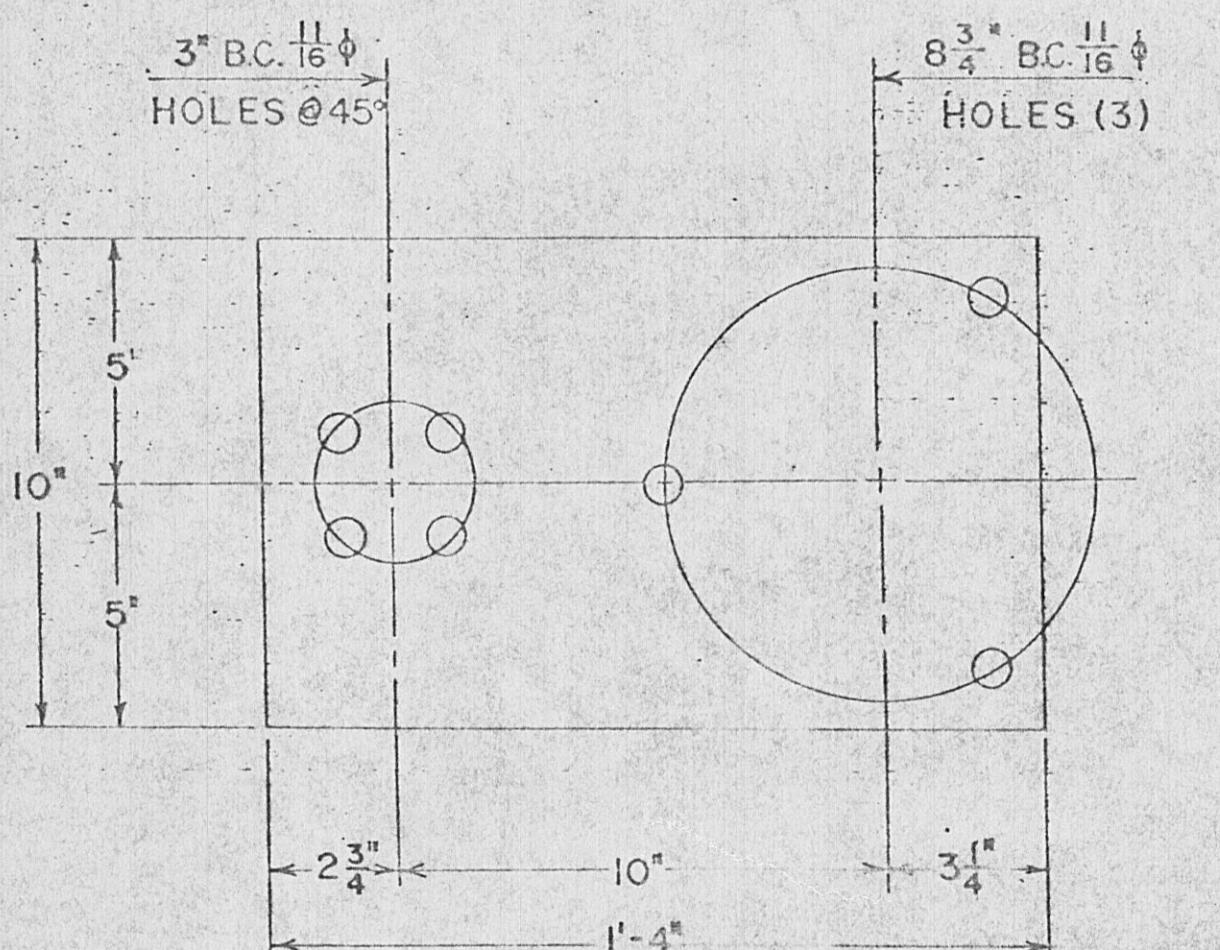
2 -REQ'D
SCALE: 1" = 1'-0"



DET. #18a B1EP (BEAM END PLATE)

2 -REQ'D FOR EACH
ASSEMBLY #B5A

SCALE: 3/8" = 1"
MATL. 3/8" x 9" x 8-1/2" LONG PLATE



DET. #33 AMP (ARRESTER MOUNTING PLATE)

3 -REQ'D FOR EACH
ASSEMBLY B5A

SCALE: 1/4" = 1"
MATL. 3/8" x 10" x 1" x 4" LONG PLATE

HARRIMAN UTILITY BOARD
BLAIR ROAD SUBSTATION
STRUCTURAL STEEL DETAILS

SHEET
11
OF SHEETS

McWHORTER & FRANKLIN ENGINEERS

NASHVILLE, TENNESSEE

ASSEMBLY #B5A

(REG. & MOB. SP. BEAM-ARR.)

DATE

REVISIONS

2117 FRANKLIN ROAD — 37204 TEL. (615)298-3338

2117 FRANKLIN ROAD — 37204 TEL. (615)298-3338

DATE: 6-8-94
DRAWN: B.C.
SCALE: NOTED

REVISIONS

DATE

McWHORTER & FRANKLIN ENGINEERS

NASHVILLE, TENNESSEE

2117 FRANKLIN ROAD - 37204 TEL. (615)298-3338

HARRIMAN UTILITY BOARD
BLAIR ROAD SUBSTATION
STRUCTURAL STEEL DETAILS

DATE: 6-8-94

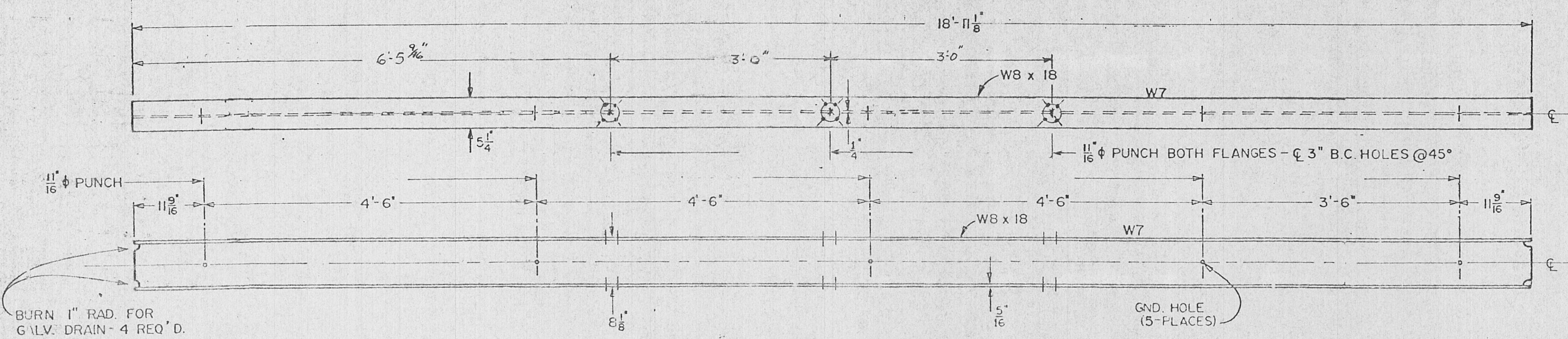
DRAWN: B.C.

SCALE: NOTED

SHEET

12

OF SHEET

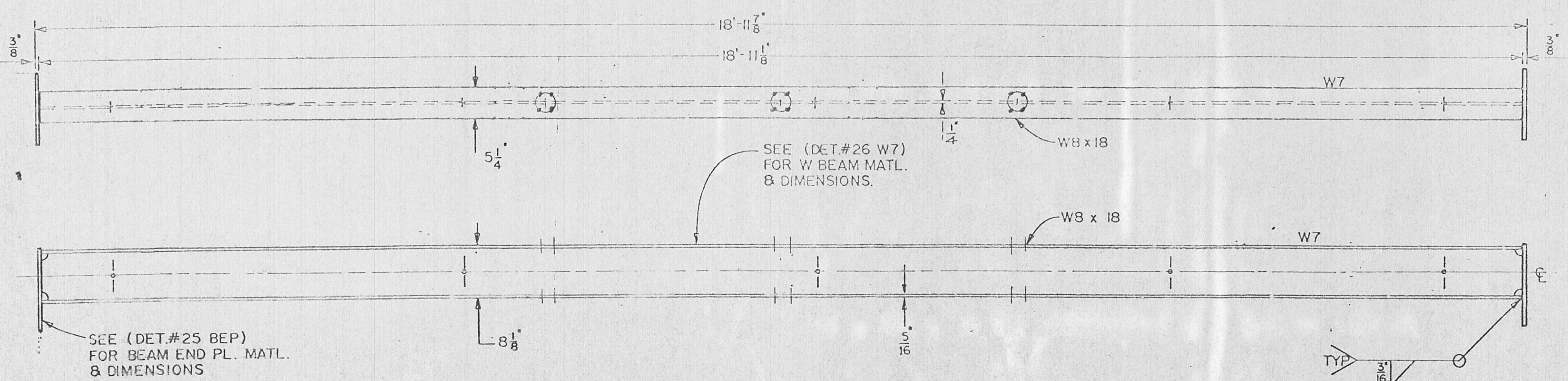


DET. #26 W7 (W BEAM)

1 - REQ'D FOR EACH
ASSEMBLY #B7

SCALE: 1" = 1' - 0"

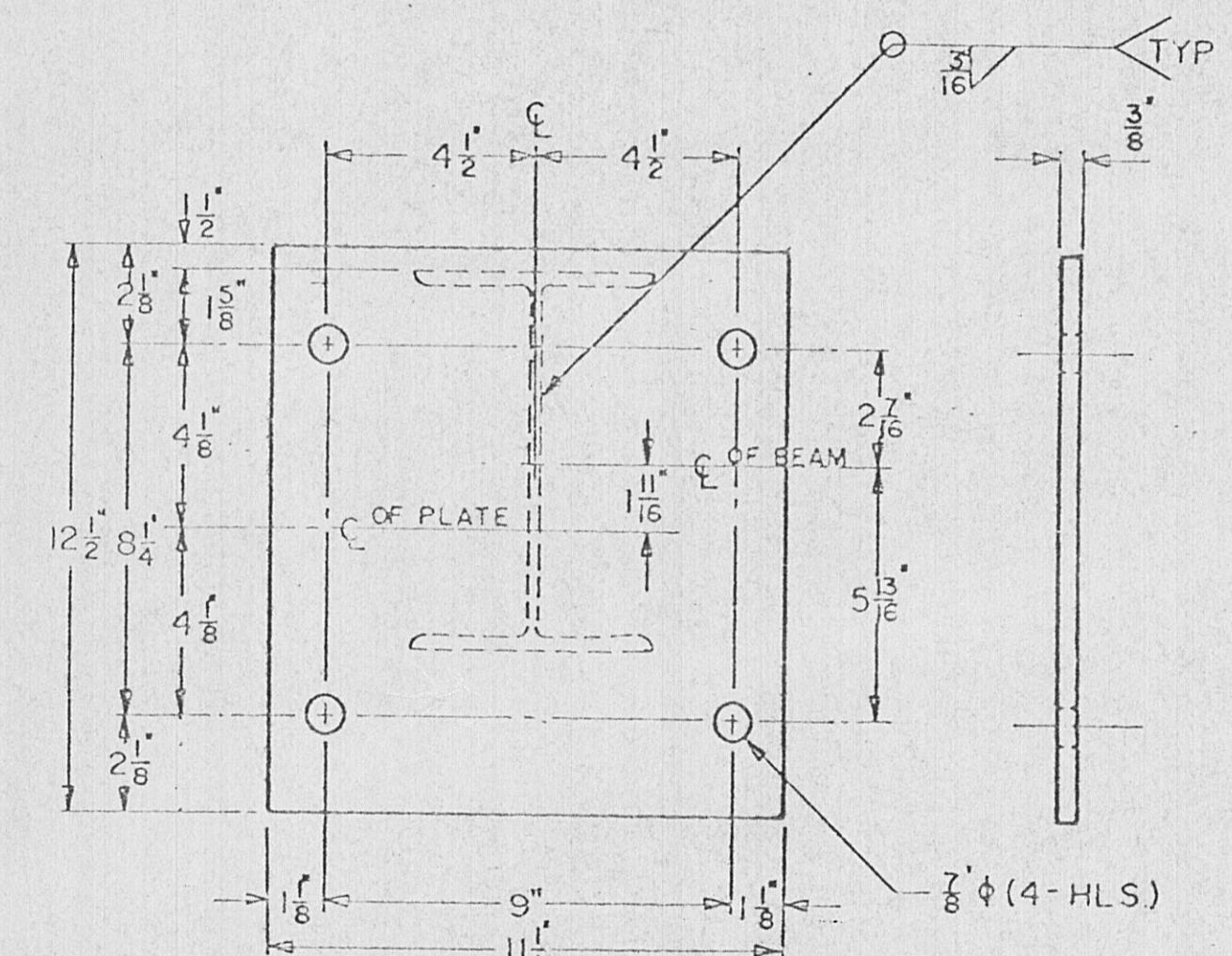
MATL. W8x18x18'-11-1/8" LONG



ASSEMBLY #B7 (LONG REG. BEAM)

2 - REQ'D

SCALE 1" = 1' - 0"



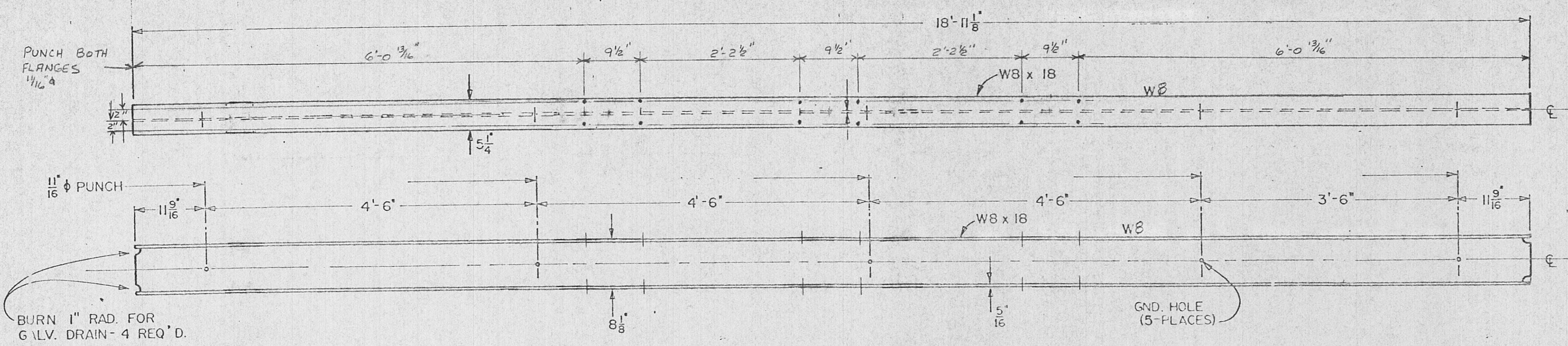
DET. #25 BEP (BEAM END PLATE)

2 - REQ'D FOR EACH
ASSEMBLY #B7

SCALE 1/4" = 1"

MATL. 3/8" x 12-1/2" x 11-1/4" LONG PLATE

ASSEMBLY #B7
(LONG REG. BEAM)

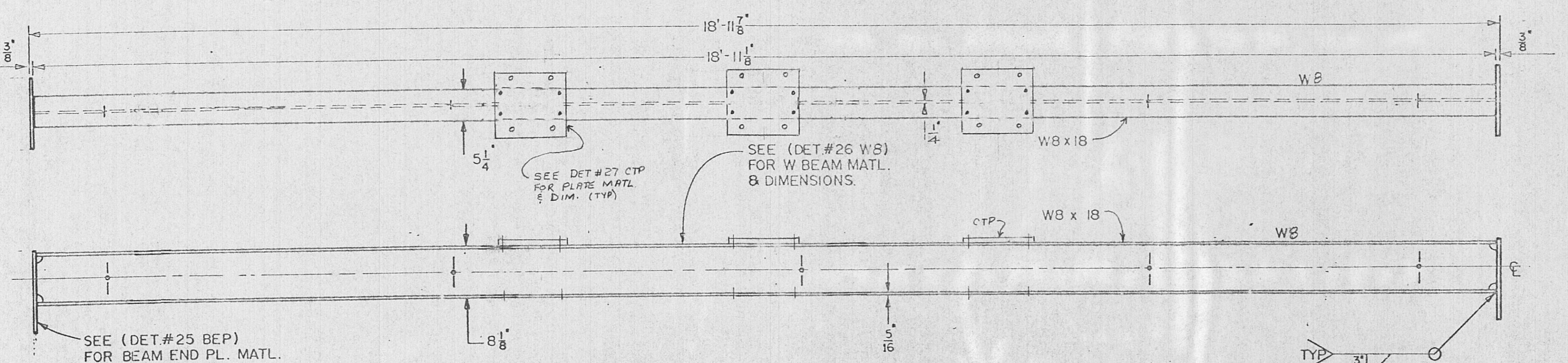


DET. #26 W8 (W BEAM)

1- REQ'D FOR EACH
ASSEMBLY #B8

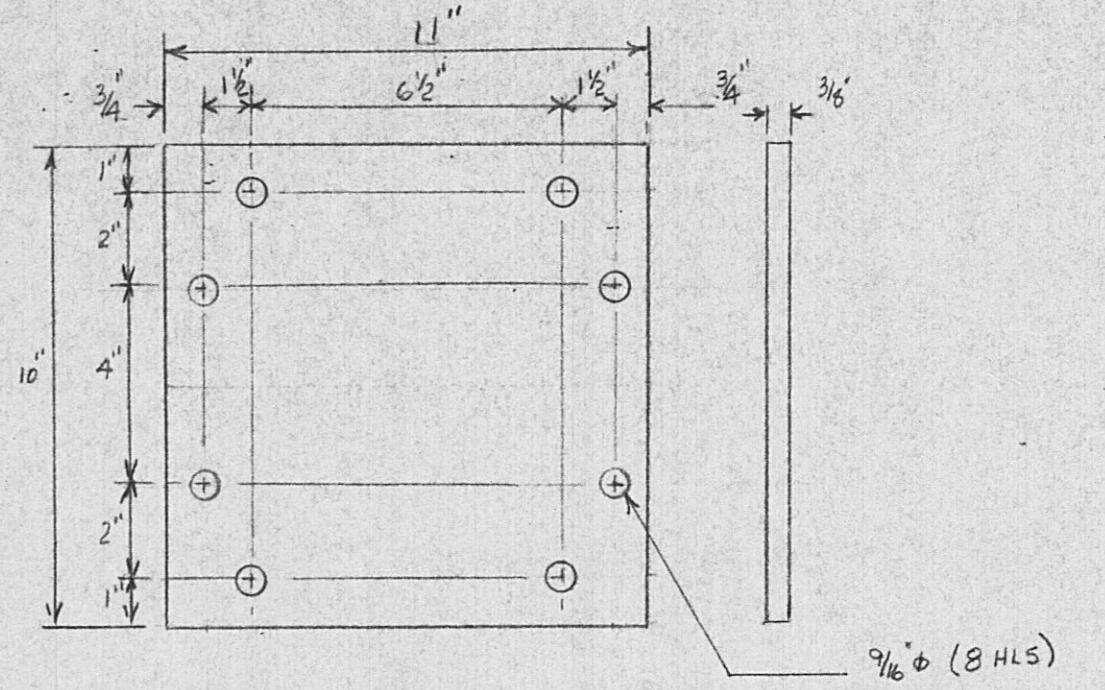
SCALE: 1" = 1'-0"

MATL. W8x18x18'-11-1/8" LONG



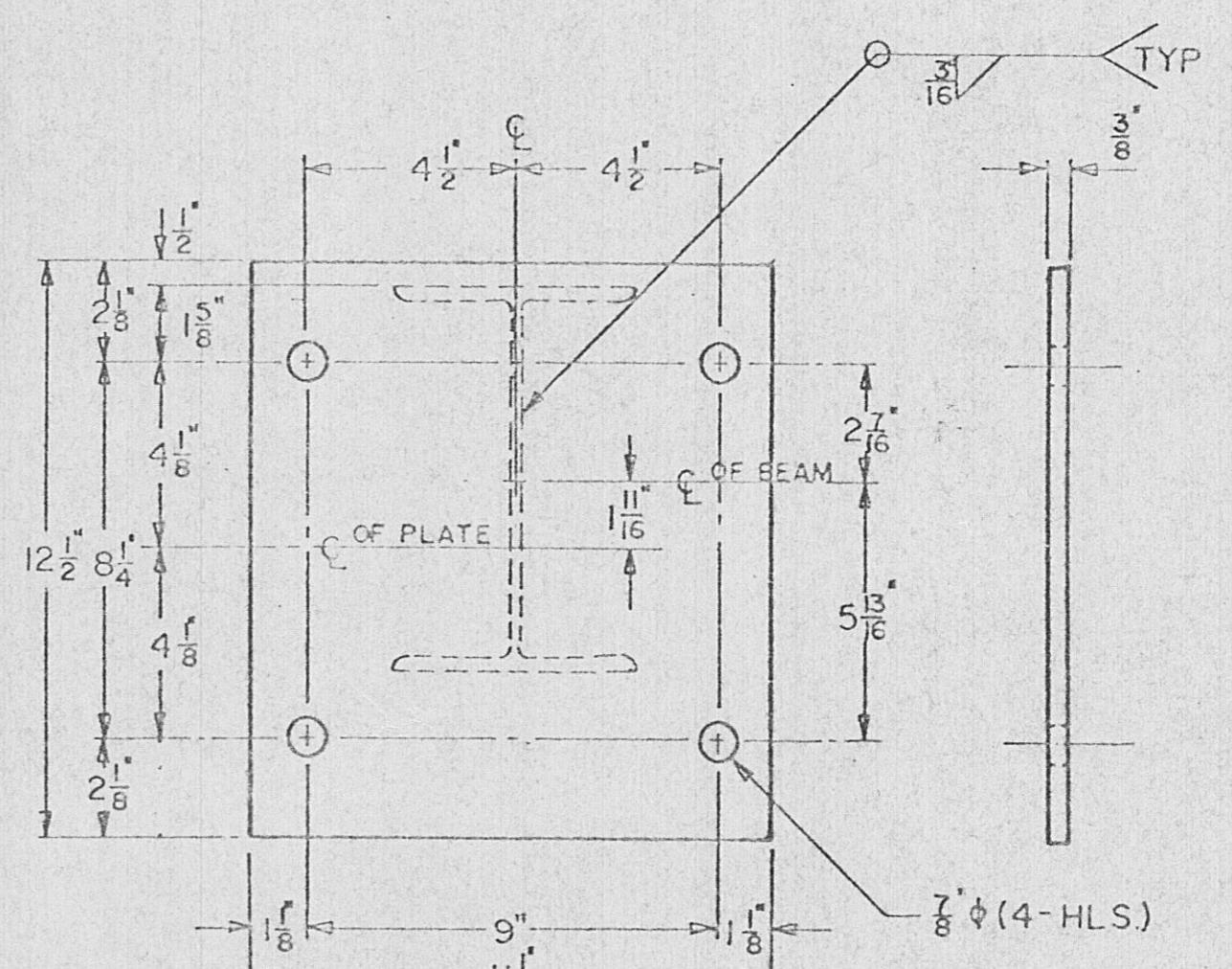
ASSEMBLY #B8 (LONG CT BEAM)

1-REQ'D
SCALE 1" = 1'-0"



DET. #27 CTP (CTPLATE)

3- REQ'D EACH
ASSEMBLY #B8
SCALE 1/4" = 1'
MATL. 3/8" X 11" X 10" LONG PLATE



DET. #25 BEP (BEAM END PLATE)

2- REQ'D FOR EACH
ASSEMBLY #B8
SCALE 1/4" = 1'
MATL. 3/8" X 12-1/2" X 11-1/4" LONG PLATE

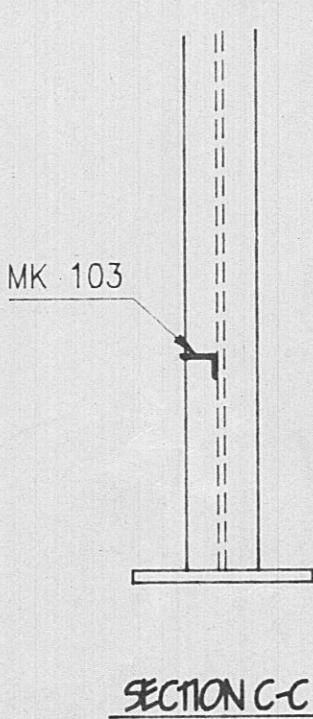
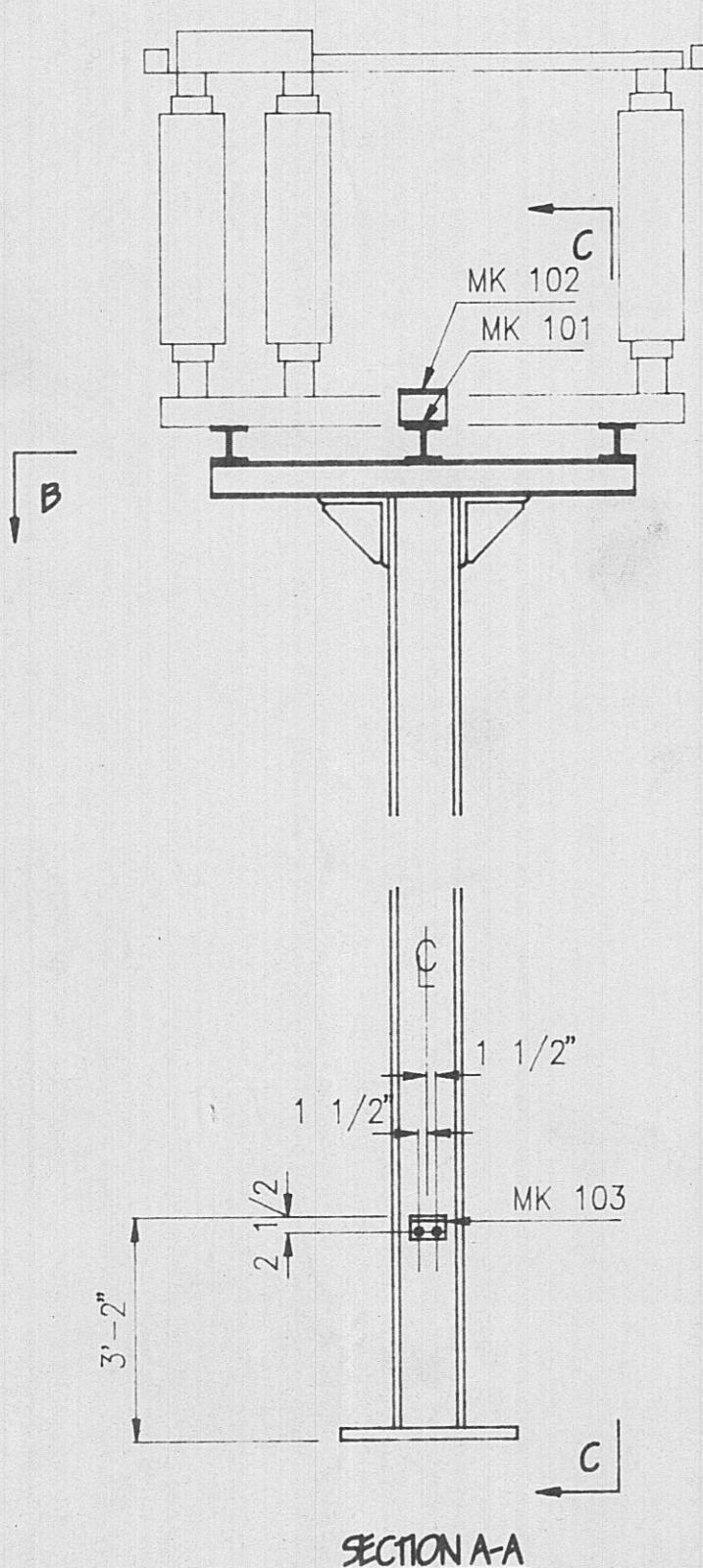
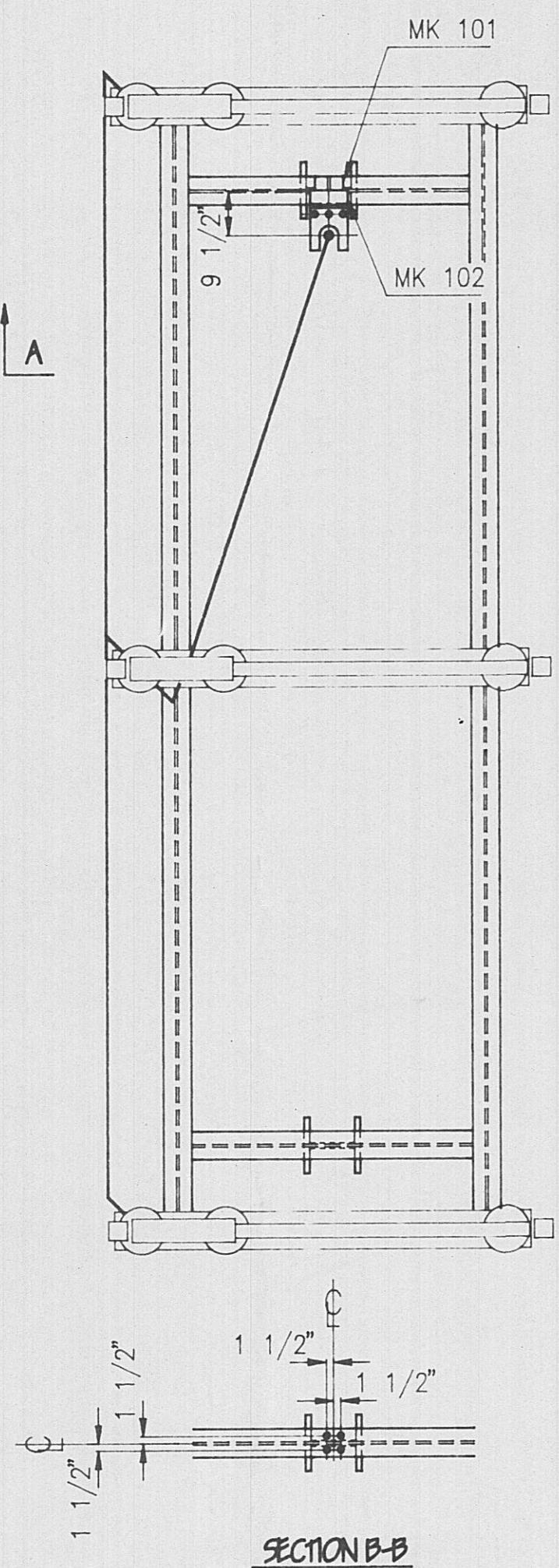
HARRIMAN UTILITY BOARD
BLAIR ROAD SUBSTATION
STRUCTURAL STEEL DETAILS

REVISIONS	DATE	REVISIONS

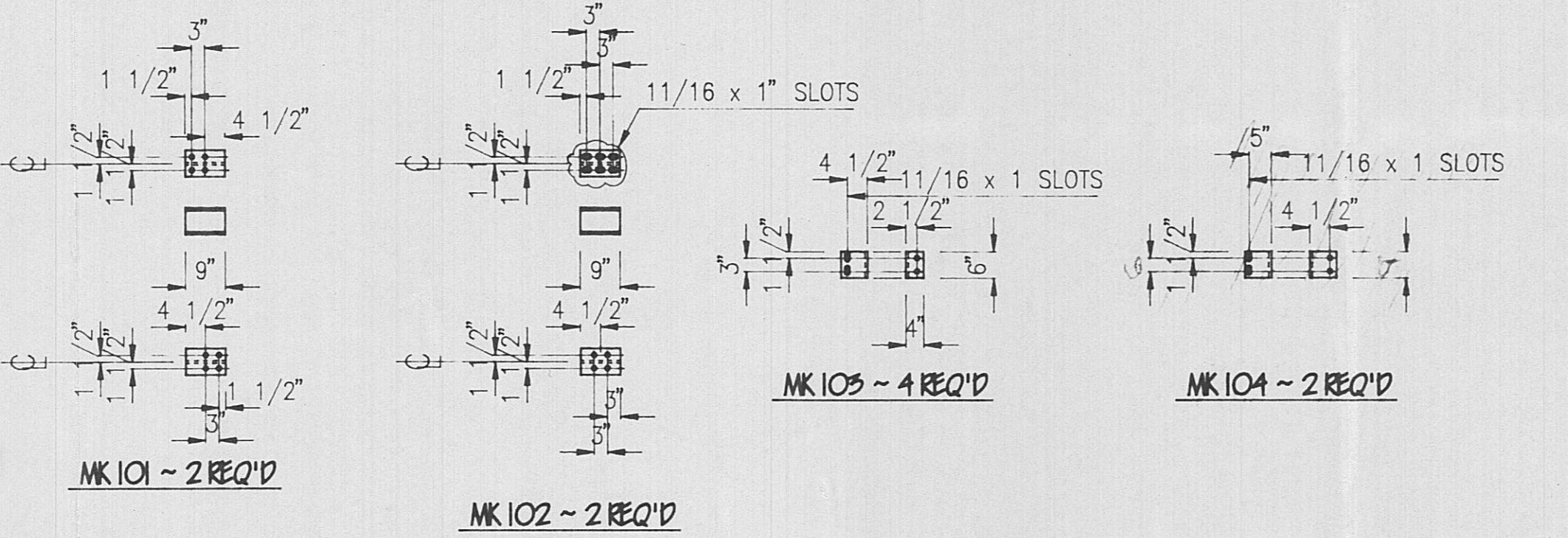
DATE: 6-8-94	McWHORTER & FRANKLIN ENGINEERS
DRAWN: B.C.	
SCALE: NOTED	

MATERIAL LIST

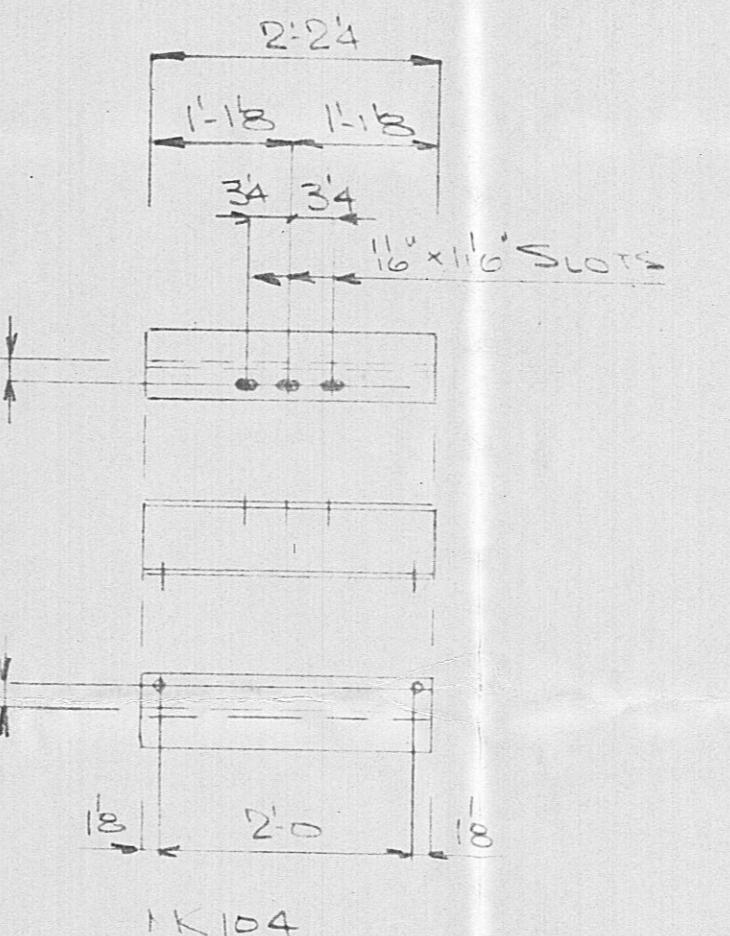
SHIP MK	SHOP MK	QUAN FOR ONE QUAN	TOT'L QUAN	DESCRIPTION	LENGTH FT.	IN.	TOTAL BLK. WT.
MK 101	FIELD	4	8	W 6 x 15 5/8 GMB W/HN LW	0	9	22.50
	2 REQ'D			TOTAL BLACK WEIGHT			22.50
MK 102	FIELD	4	8	W 6 x 15 5/8 GMB W/HN LW	0	9	22.50
	2 REQ'D			TOTAL BLACK WEIGHT			22.50
MK 103	FIELD	1	4	L 6 x 6 x 1/2 CUT DOWN 5/8 GMB W/HN LW	0	6	39.20
	4 REQ'D			TOTAL BLACK WEIGHT			39.20
MK 104	FIELD	1	2	W 6 x 15 5/8 GMB W/HN LW	2	0	24
	2 REQ'D			TOTAL BLACK WEIGHT			24



FIELD DRILLING & MOUNTING DETAIL
FOR 15 KV SWITCH



NOTE:
ALL HOLES 11/16" UNLESS NOTED.



SECTION E-E

NOTES:
1. ALL HOLES 11/16" UNLESS NOTED.
2. ALL STEEL TO BE HOT DIP GALVANIZED AFTER FABRICATION.
3. EDGE DISTANCE 1 1/8" UNLESS NOTED.
4. ALL STEEL TO BE STRAIGHT ABOUD CENTERLINE.
5. EACH PIECE OF STEEL TO HAVE ITS MARK STAMPED INTO METAL WITH 3/8" HIGH CHARACTERS.

NO.	REVISIONS	DATE

M. D. HENRY CO., INC.
P. O. BOX 40 PELHAM, ALABAMA 35124
PHONE (205)-663-6711 FAX (205)-663-6718

SCALE 3/4"=1'-0"
DATE 10-24-94

HARRIMAN UTILITY BOARD ~ HARRIMAN, TENNESSEE
BLAIR ROAD SUBSTATION ~ 161 KV TO 15 KV SUBSTATION
STEEL DETAILS

DRAWN BY
CHK'D BY
DK-5963

ANY ADDITIONS, MODIFICATIONS, OR CORRECTIONS TO STRUCTURES FURNISHED
IN ACCORDANCE WITH THIS DRAWING WITHOUT AUTHORIZATION OF M. D.
HENRY CO., INC. WILL RELIEVE M. D. HENRY CO., INC. OF RESPONSIBILITY
FOR THE DESIGN, PERFORMANCE, AND OR COST OF ALTERATION.

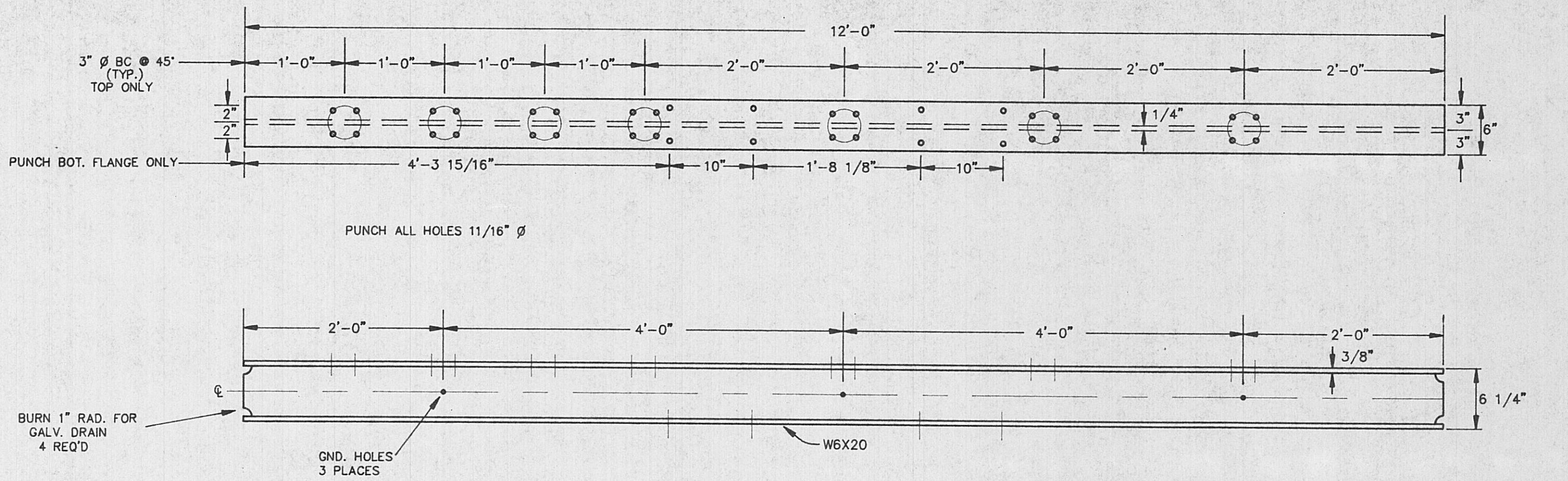
REVISIONS

McWHORTER & FRANKLIN ENGINEERS
NASHVILLE, TENNESSEE
(615)298-3338

DATE: 6-14-94
DRAWN: B.C.
SCALE: NOTED

HARRIMAN UTILITY BOARD
BLAIR ROAD SUBSTATION
STRUCTURAL STEEL DETAILS

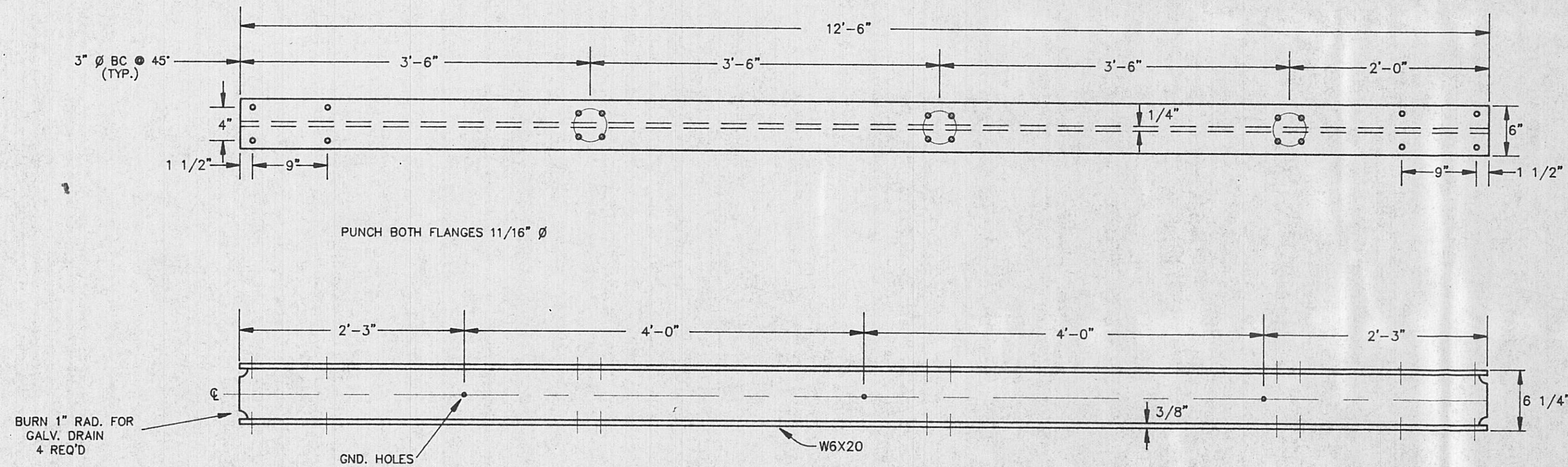
SHEET
14
OF SHEETS



ASSEMBLY #B16 (G.B. BUS BEAM)

4-REQ'D

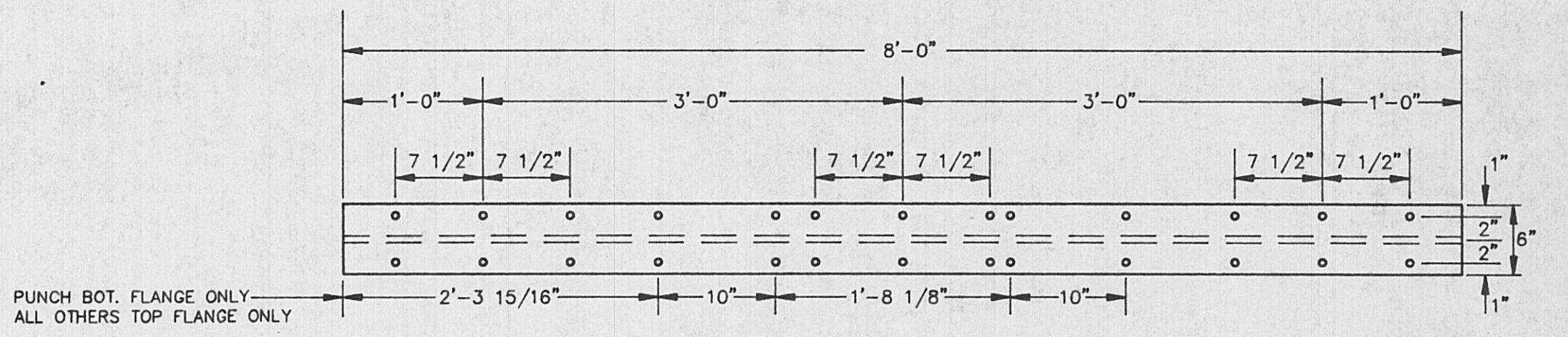
SCALE: 1" = 1'-0"
MATL.: W6 X 20 X 12'-0" LONG



ASSEMBLY #B18 (BUS BEAM)

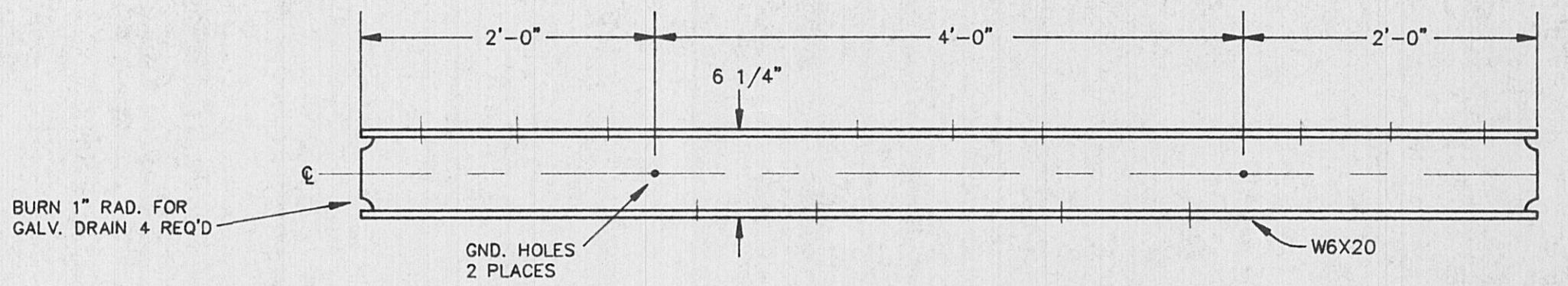
1-REQ'D

SCALE: 1" = 1'-0"
MATL: W6 X 20 X 12'-6" LONG



PUNCH BOT. FLANGE ONLY—
ALL OTHERS TOP FLANGE ONLY

PUNCH ALL HOLES 11/16" Ø

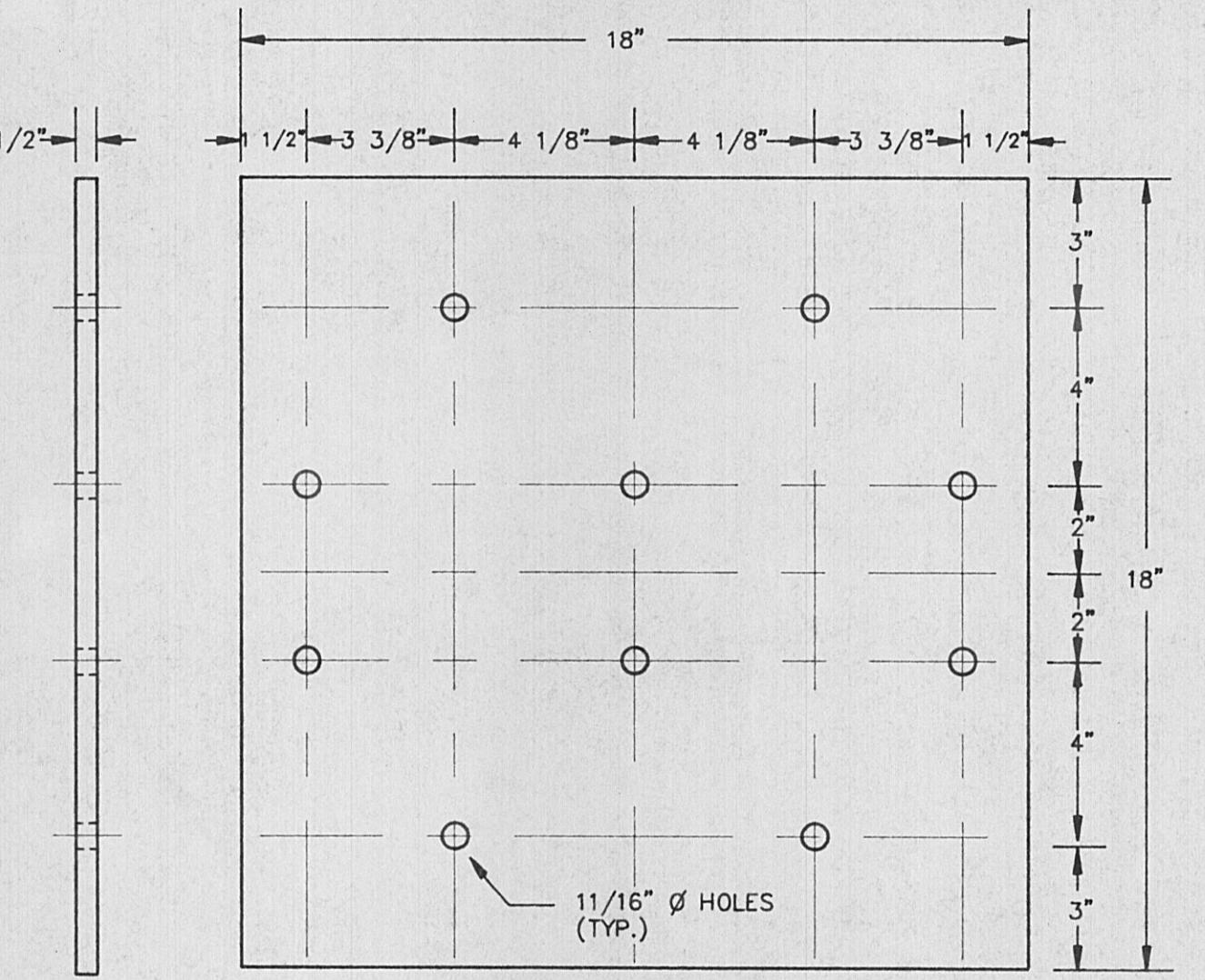


DET. #17 W17 (W BEAM)

1-REQ'D FOR EACH
ASSEMBLY #B17

SCALE: 1" = 1'-0"
MATL.: W6 X 20 X 8'-0" LONG

MATL.: W6 X 20 X 8'-0" LONG



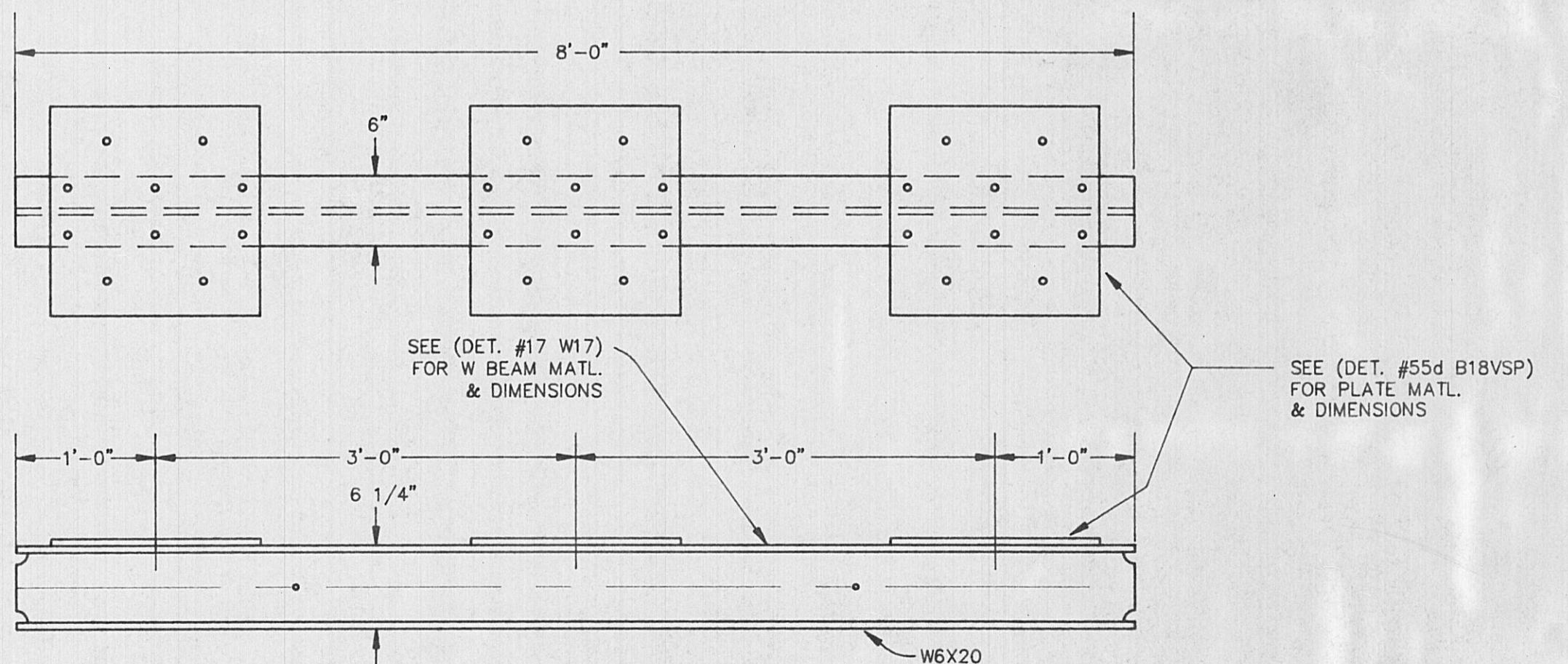
DET. #55d B18VSP (V-SW PLATE)

3-REQ'D FOR EACH
ASSEMBLY P15

ASSEMBLY B17
SCALE 1/4" = 1"

SCALE: $1/4"$ = 1"
MATERIAL: $1/2"$ x 18" x 18"

MATE. 1/2 x 10 x 10



ASSEMBLY #B17 (V-SW BEAM)

2-REQ'D
SCALE: 1" = 1'-0"

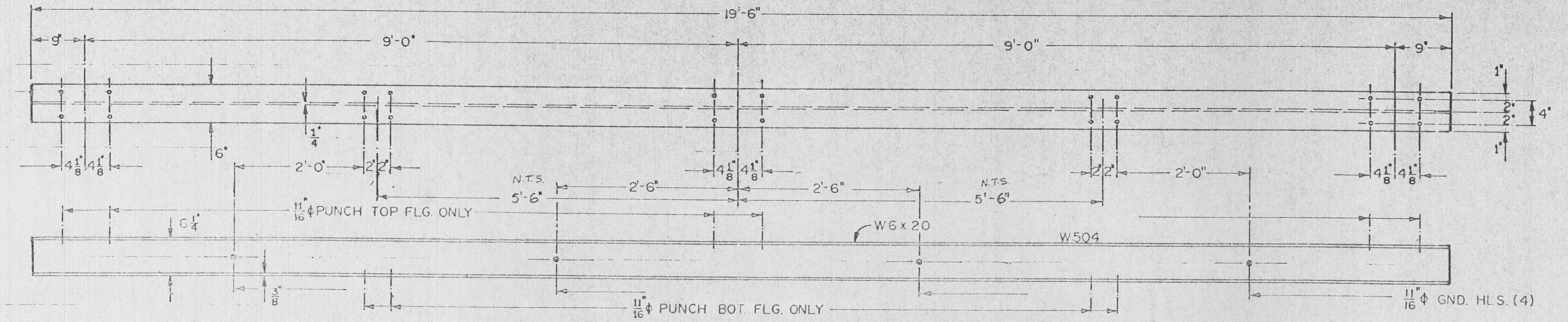
SCALE: 1" = 1'-0"

HARRIMAN UTILITY BOARD
BLAIR ROAD SUBSTATION
STRUCTURAL STEEL DETAILS

SHEET
15
OF SHEETS

ASSEMBLY #B17
-SW BEAM)

OF SHEET IS

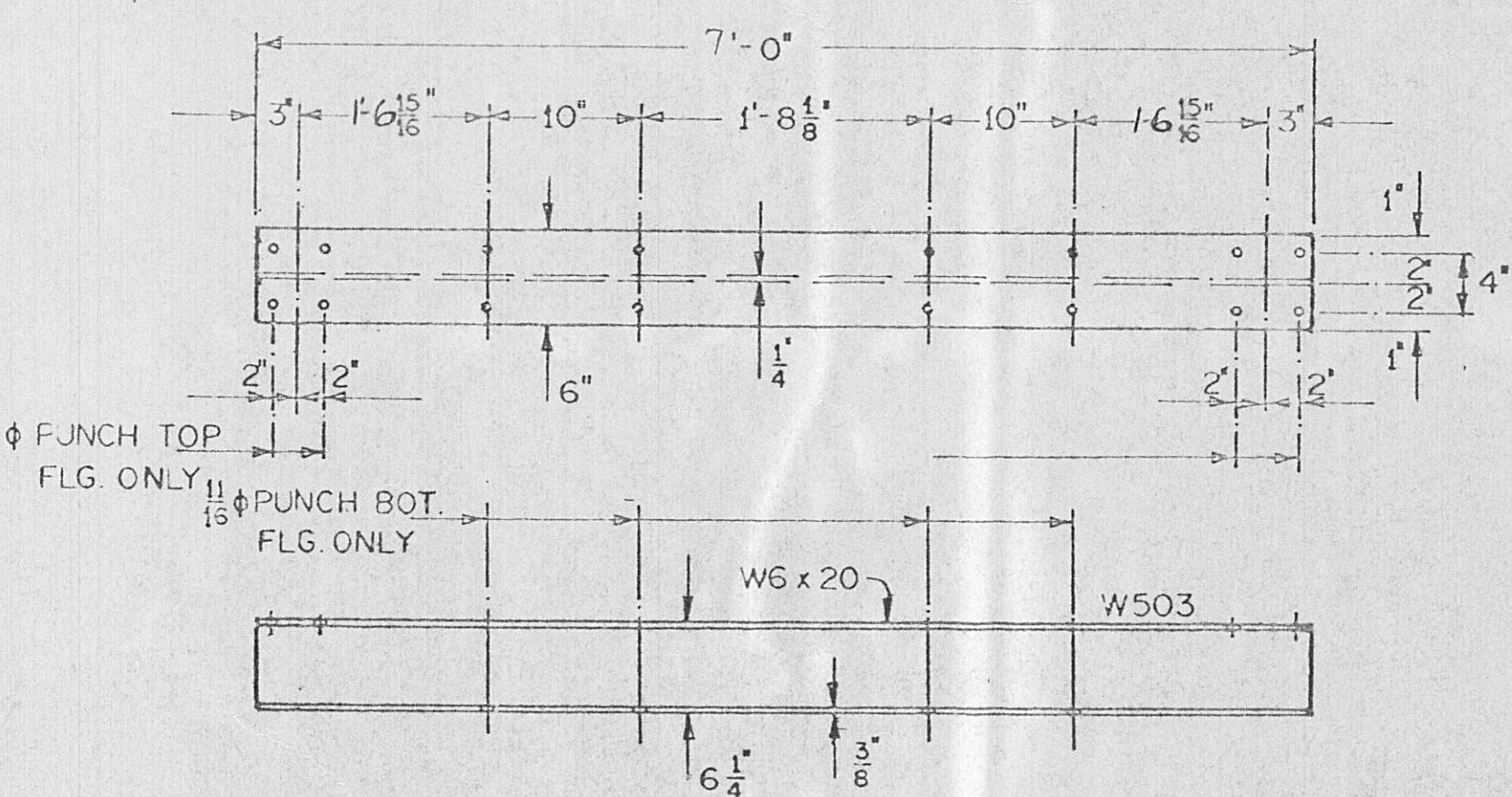


ASSEMBLY #B504 (H.S. SW. LONG BEAM)

4 - REQ'D

SCALE: 1" = 1'- 0"

MATL. W6 x 20 x 19'-6" LONG

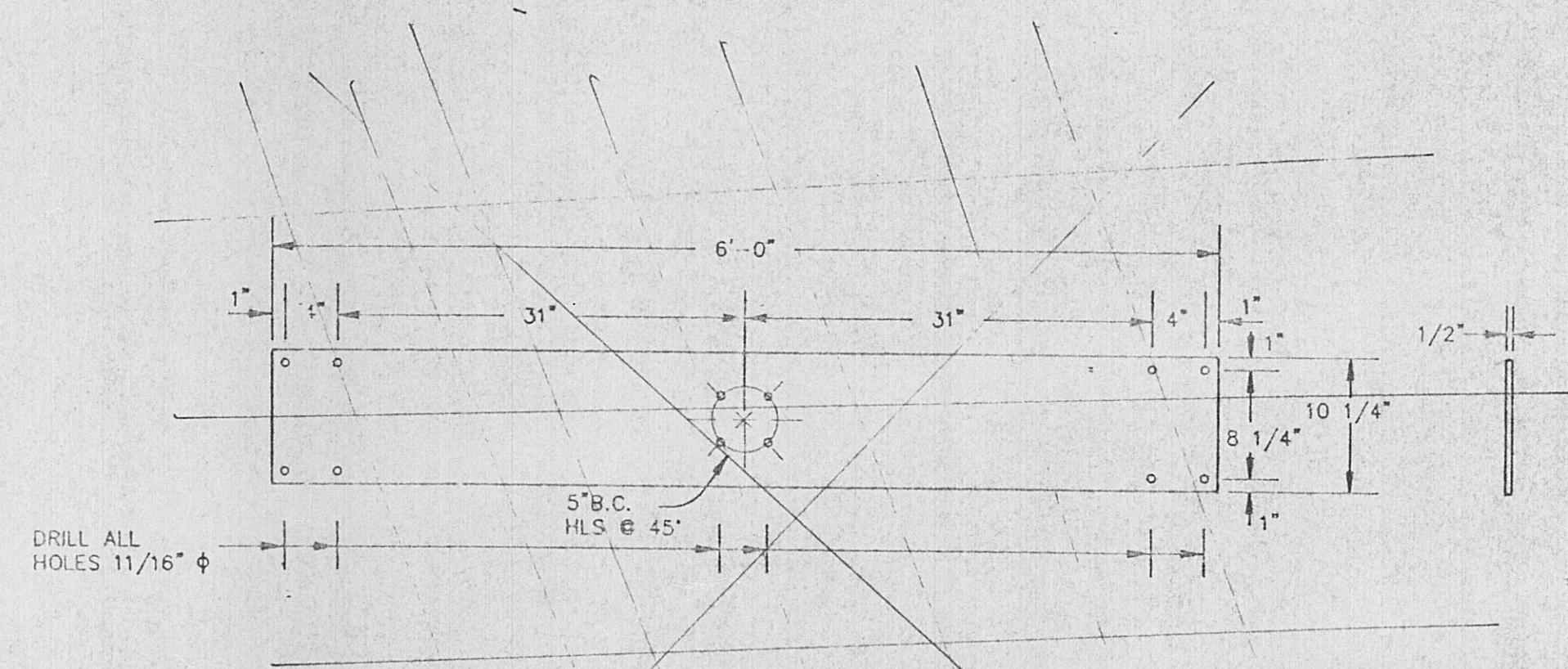


ASSEMBLY #B503 (H.S. SW. SHORT BEAM)

4 - REQ'D

SCALE: N.T.S.

MATL. W6 x 20 x 6'-0" LONG



DET. #B5IMP (INS. MTG. PL.)

3 - REQ'D.

ASSEMBLY B15

SCALE: 1"=1'

MATL. 1/2" x 10 1/4" x 6' LONG PLATE

HARRIMAN UTILITY BOARD
BLAIR ROAD SUBSTATION
STRUCTURAL STEEL DETAILS

SHEET
16

OF SHEETS

ASSEMBLY #B504 & #B503
(H.S. SW. LONG & H.S. SW. SHORT BEAM)

REVISIONS

McWHORTER & FRANKLIN ENGINEERS

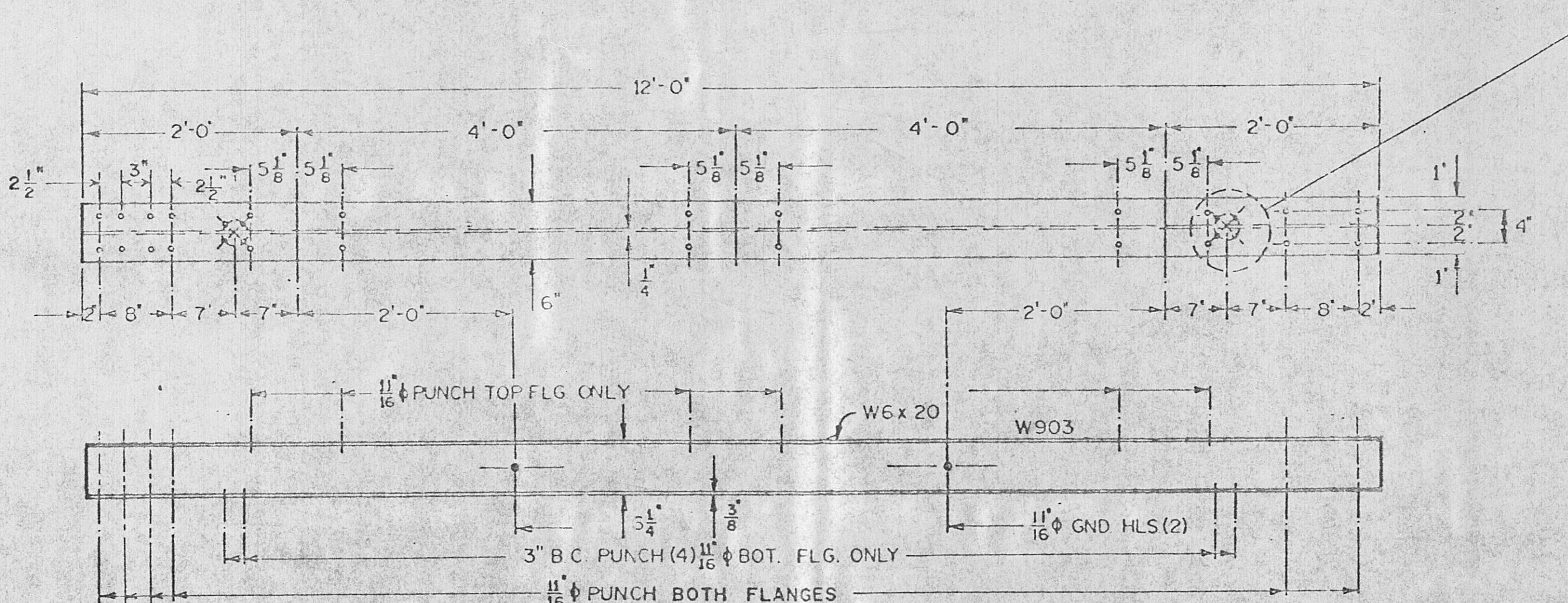
NASHVILLE, TENNESSEE

2117 FRANKLIN ROAD - 37204 TEL. (615)298-3338

DATE: 6-8-94

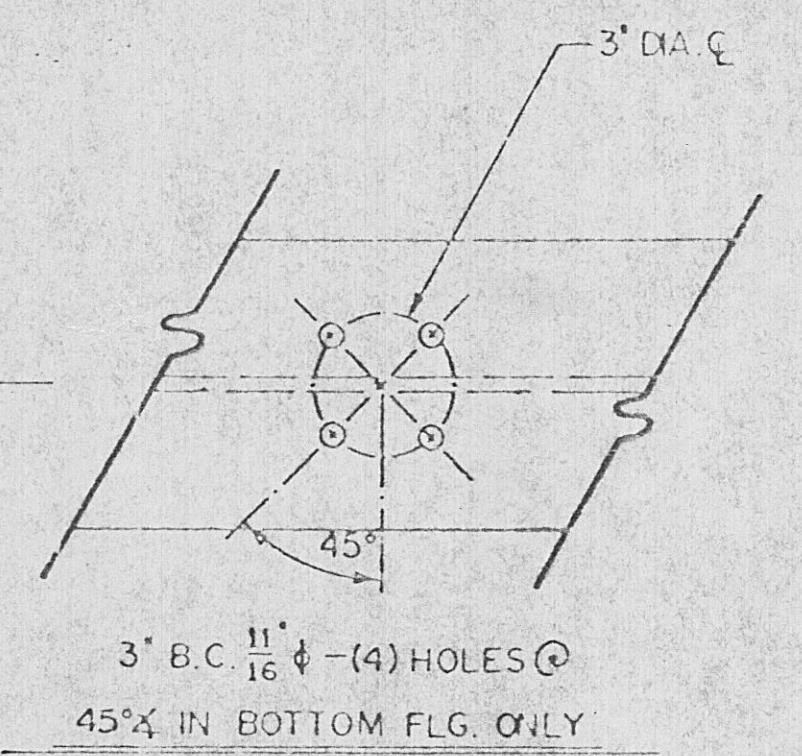
DRAWN B.C.

SCALE: NOTED



ASSEMBLY #B903 (L.S. SW. BEAM)

4 - REQ'D
SCALE: 1" = 1'-0"
MATERIAL: W6 x 20 x 12'-0" LONG



HARRIMAN UTILITY BOARD
BLAIR ROAD SUBSTATION
STRUCTURAL STEEL DETAILS

SHEET
17
OF SHEETS

McWHORTER & FRANKLIN ENGINEERS
NASHVILLE, TENNESSEE

DATE: 6-8-94
DRAWN: B.C.
SCALE: NOTED
2117 FRANKLIN ROAD - 37204
TEL. (615)298-3338

REVISIONS

McWHORTER & FRANKLIN ENGINEERS

NASHVILLE, TENNESSEE

2117 FRANKLIN ROAD - 37204 TEL. (615)298-3338

HARRIMAN UTILITY BOARD
BLAIR ROAD SUBSTATION

ARRANGEMENT & PROFILE

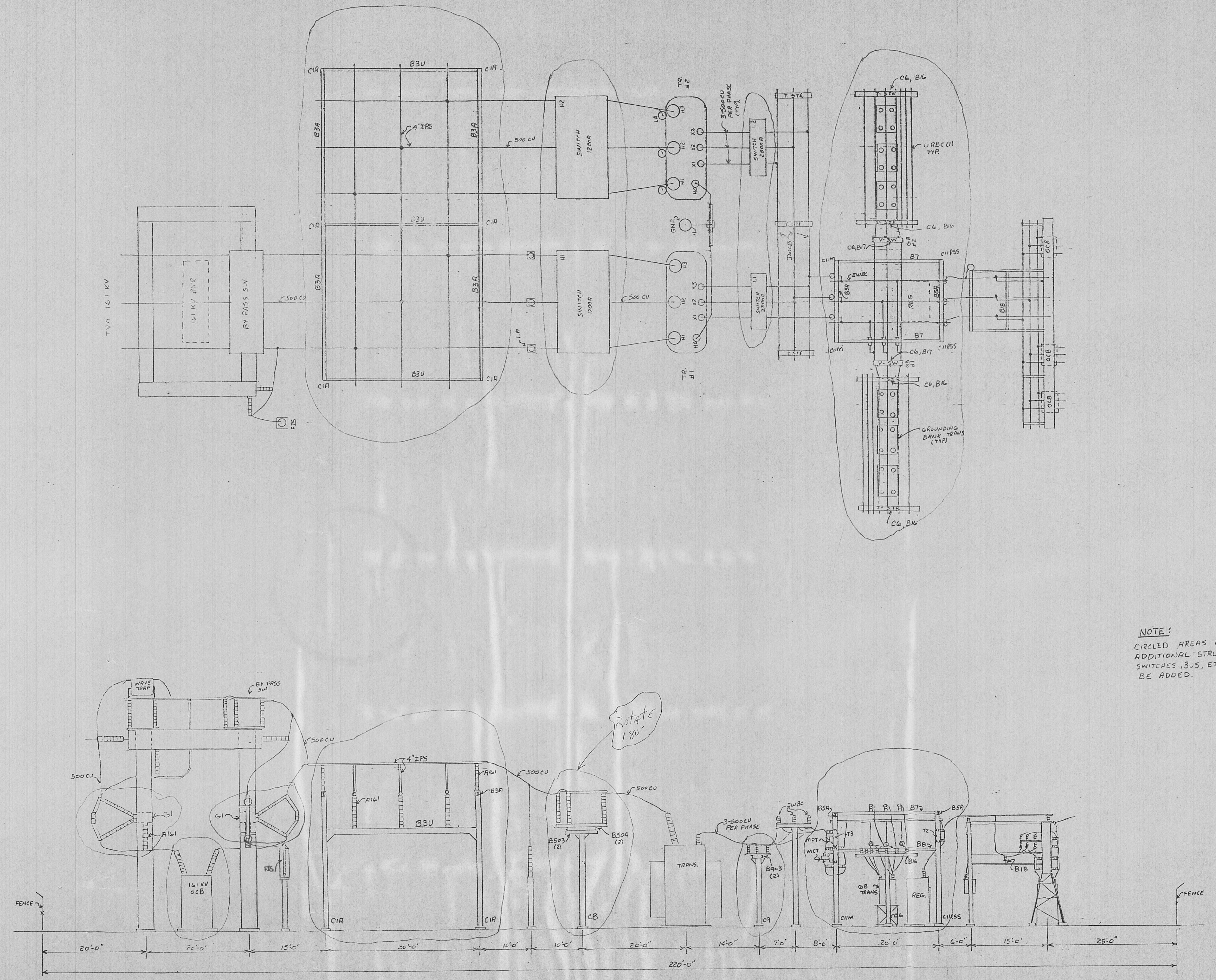
SHEET
1

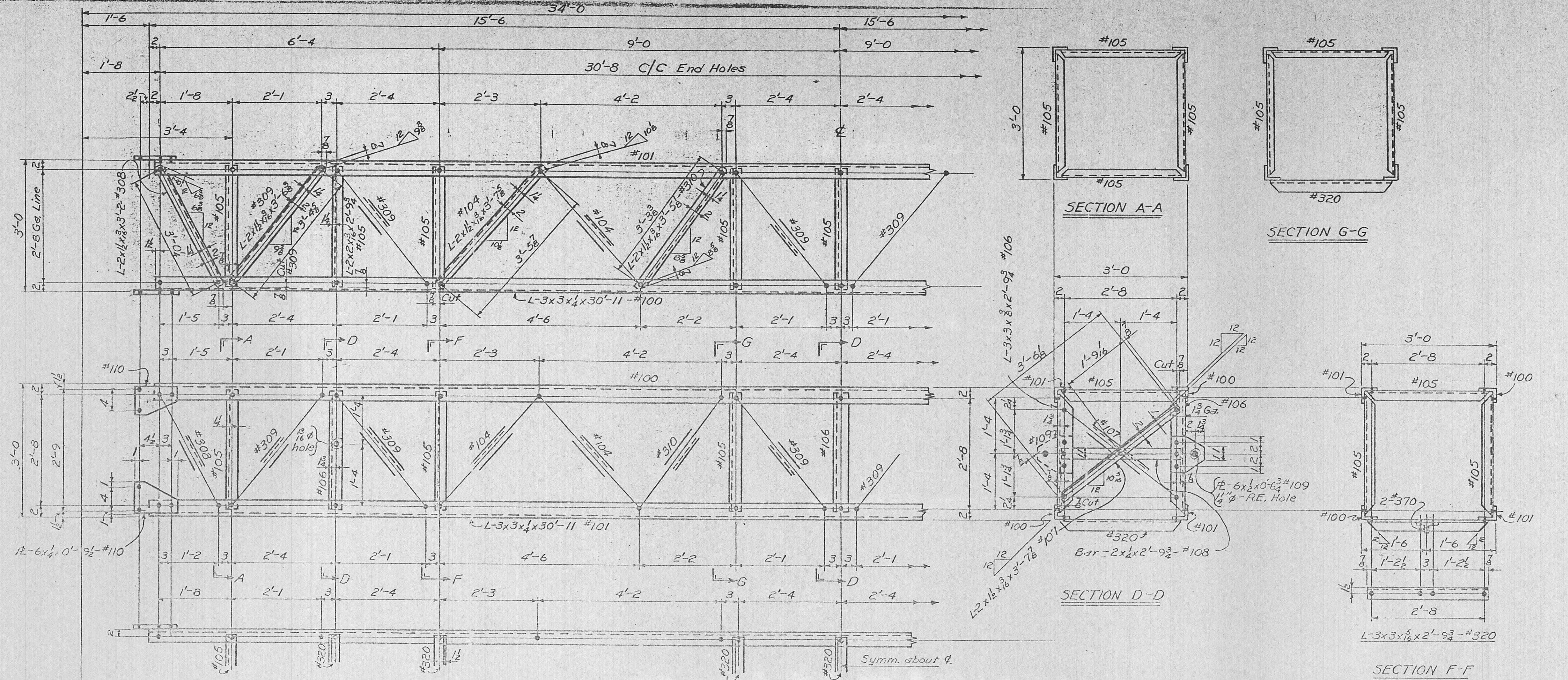
OF SHEETS

DATE:
DRAWN:
SCALE:

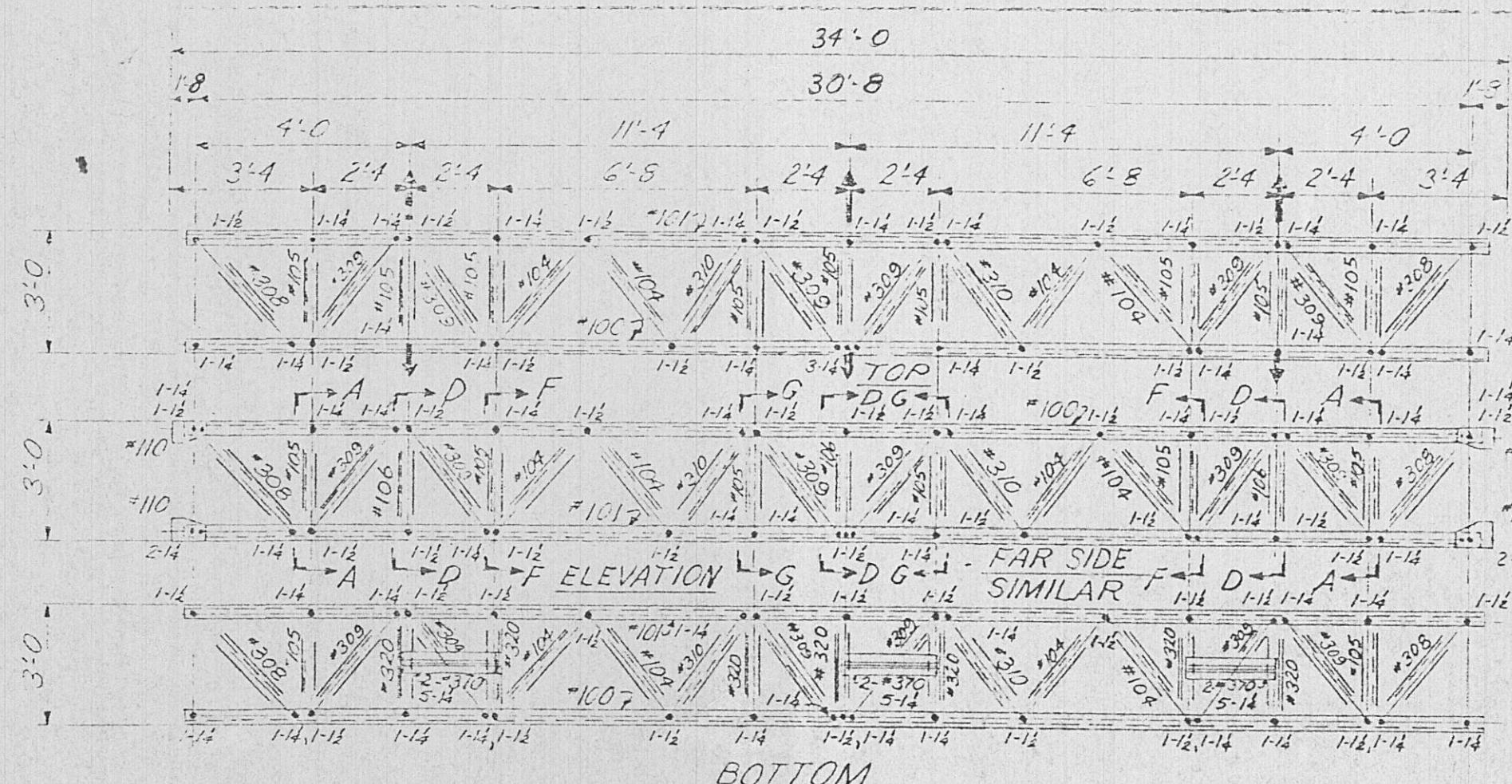
REVISIONS

DATE

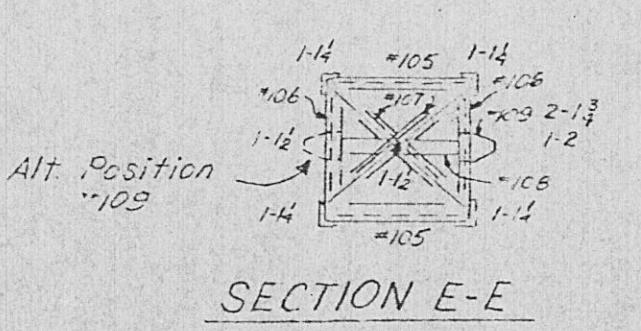




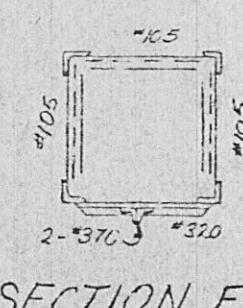
GIRDER - GI



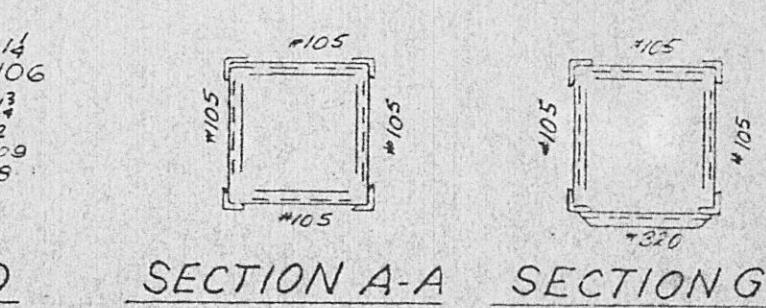
GIRDER GI- ASSEMBLY "A"



SECTION F



SECTION



SECTION A-A SECTION G

MATERIAL REQ'D. FOR ONE GIRDER GI ASSEMBLY "A"						
MARK	NO. REQD.	DESCRIPTION	LENGTH FT.	WT. IN.	WT. EACH	
100	2	L 3x3x4	30	11	156	
101	2	do	30	11	156	
308	8	L 2x1½x⅜	3	2	7	
309	24	do	3	6 ¾	8	
104	16	do	3	7 ½	8	
105	23	L 2x2x⅜	2	9 ¾	7	
106	6	L 3x3x⅜	2	9 ¾	21	
107	6	L 2x1½x⅜	3	7 ½	8	
108	3	Bar 2x4	2	9 ¾	5	
109	3	Φ 6x2 ½	0	6 ¾	6	
110	8	R 6x4	0	9 ½	4	
320	7	L 3x3x⅝	2	9 ¾	18	
370	6	L 3x3x⅓	2	5 ¾	13	
310	8	L 2x1½x⅜	3	5 ½	8	
123	8	5"Φ Bolts. W/HN, FW, LW	0	14	0.31	
82		do	0	1 ½	0.33	
7		do	0	1 ¾	0.36	
4		do	1	2	0.38	

Total Weight = 17.37

MATERIAL REQ'D. FOR ONE GIRDER
ASSEMBLY "A".

REFERENCE:
TVA DWG. LC-12821, SH. 5 8/12

NOTES:

NOTES.

All holes $\frac{1}{16}$ " ϕ unless otherwise noted.
All material to be hot-dip galvanized after fabrication.
Piece marks to be die stamped before galvanizing.
Cut O.S.L. of all diagonals and web members @ 45°

ASSEMBLY GIRDER G-1

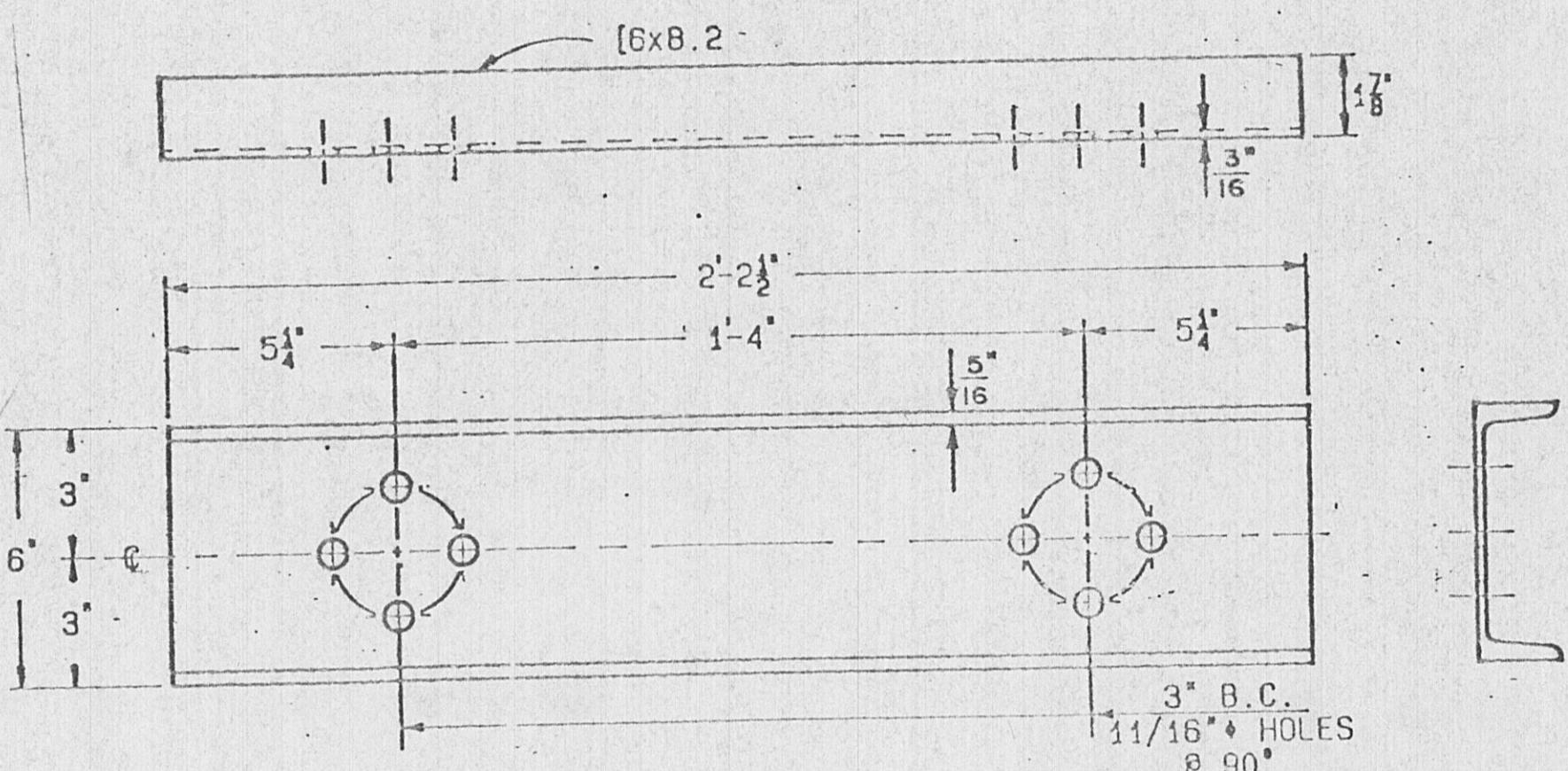
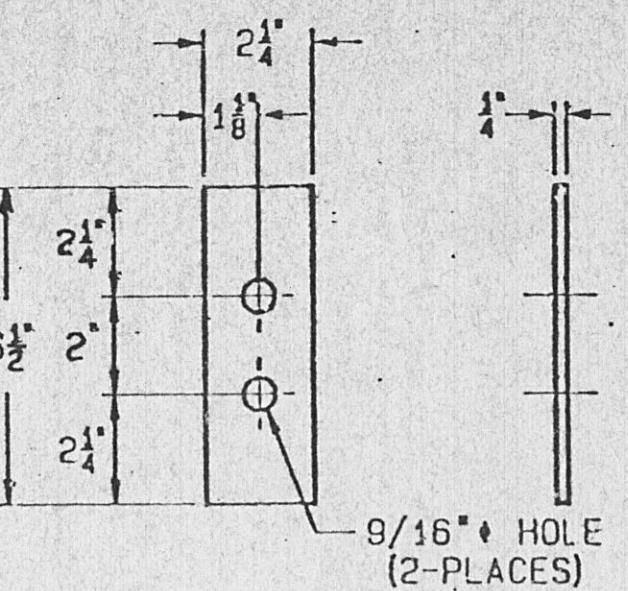
HARRIMAN UTILITY BOARD
BLAIR ROAD SUBSTATION
STRUCTURAL STEEL DETAILS

**SHEET
18**

DET. #34b P_O (SIDE PLATE)

2 REQ'D FOR EACH
ASSEMBLY #IM

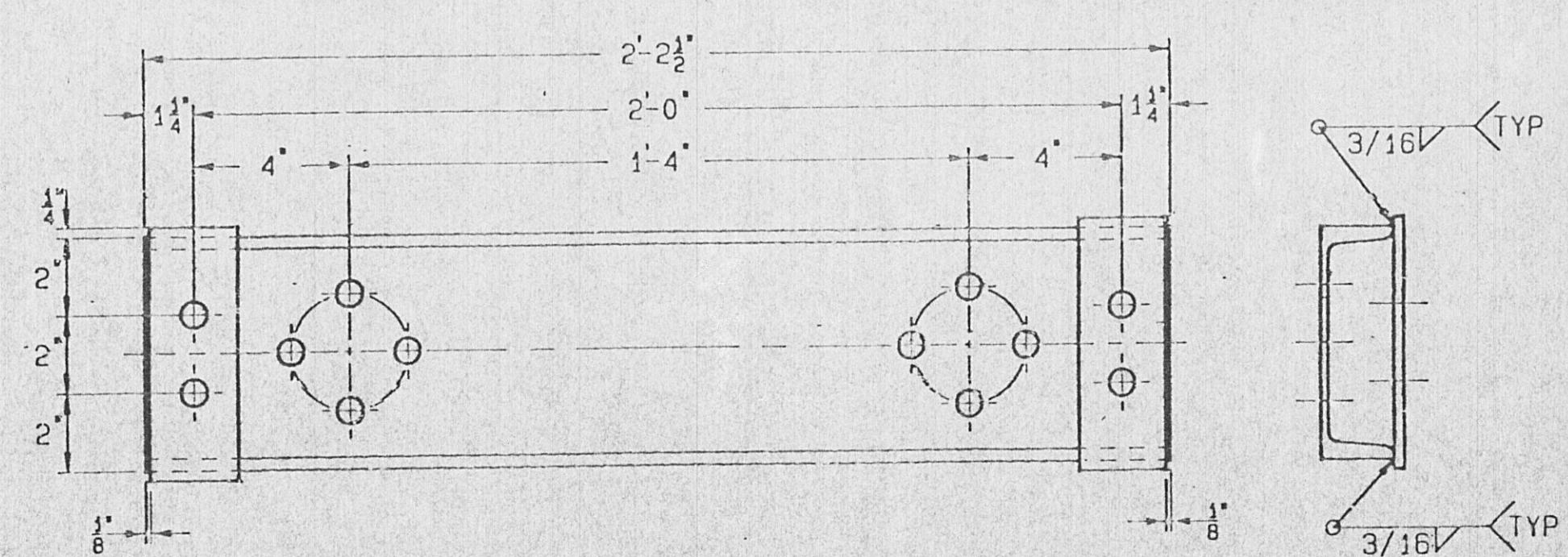
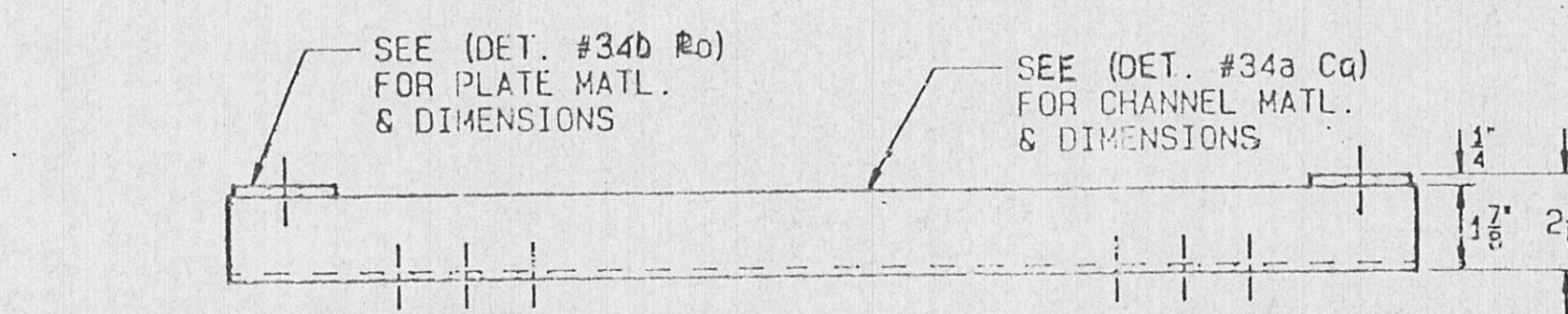
SCALE: 1/4"=1"
MATL: 1/4" x 2 1/4" x 6 1/2" LG. PLATE



DET. #34a C_O (CHANNEL)

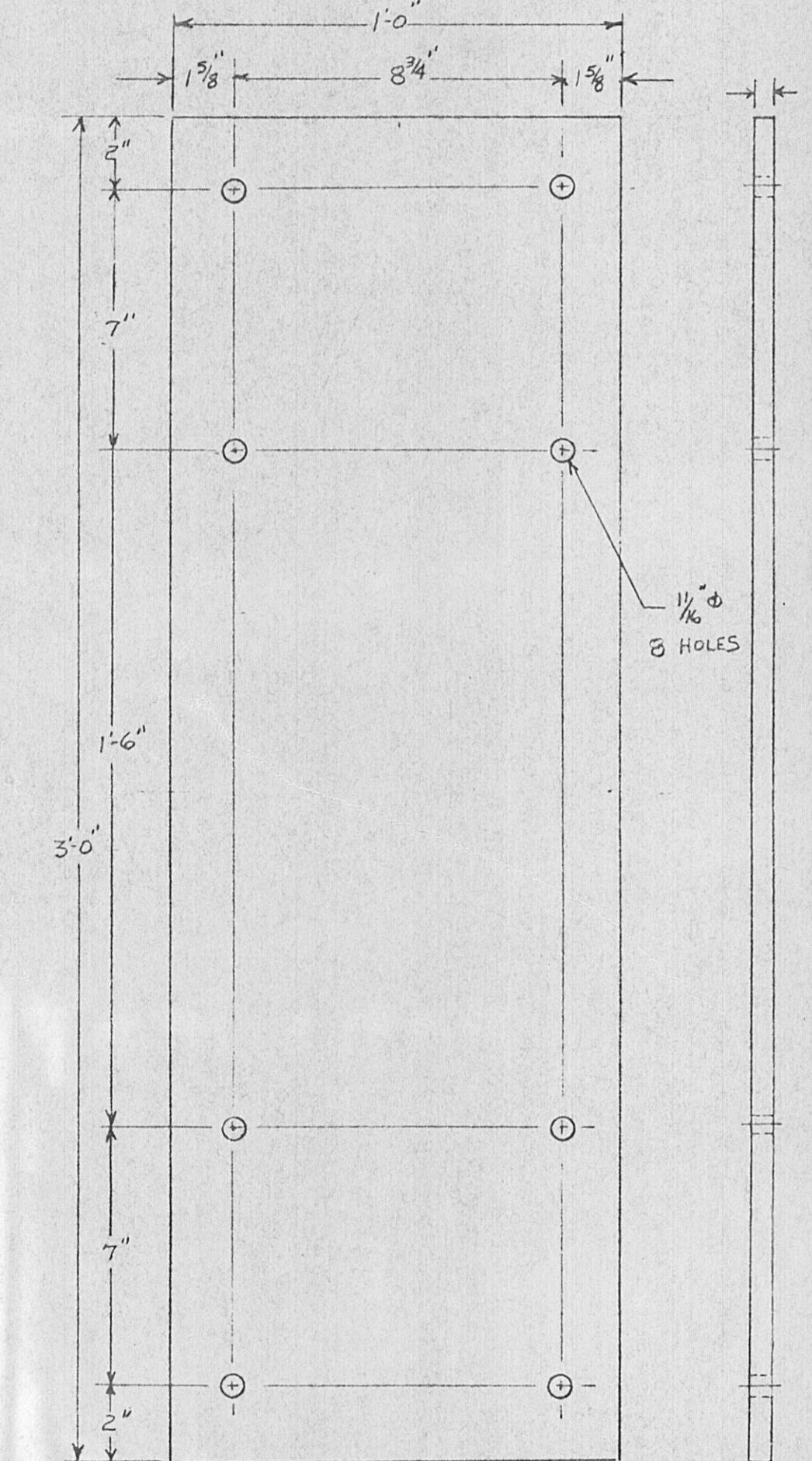
1 REQ'D FOR EACH
ASSEMBLY #IM

SCALE: 1/4"=1"
MATL: C6 x 8.2 x 2'-2 1/2" LG. CHANNEL



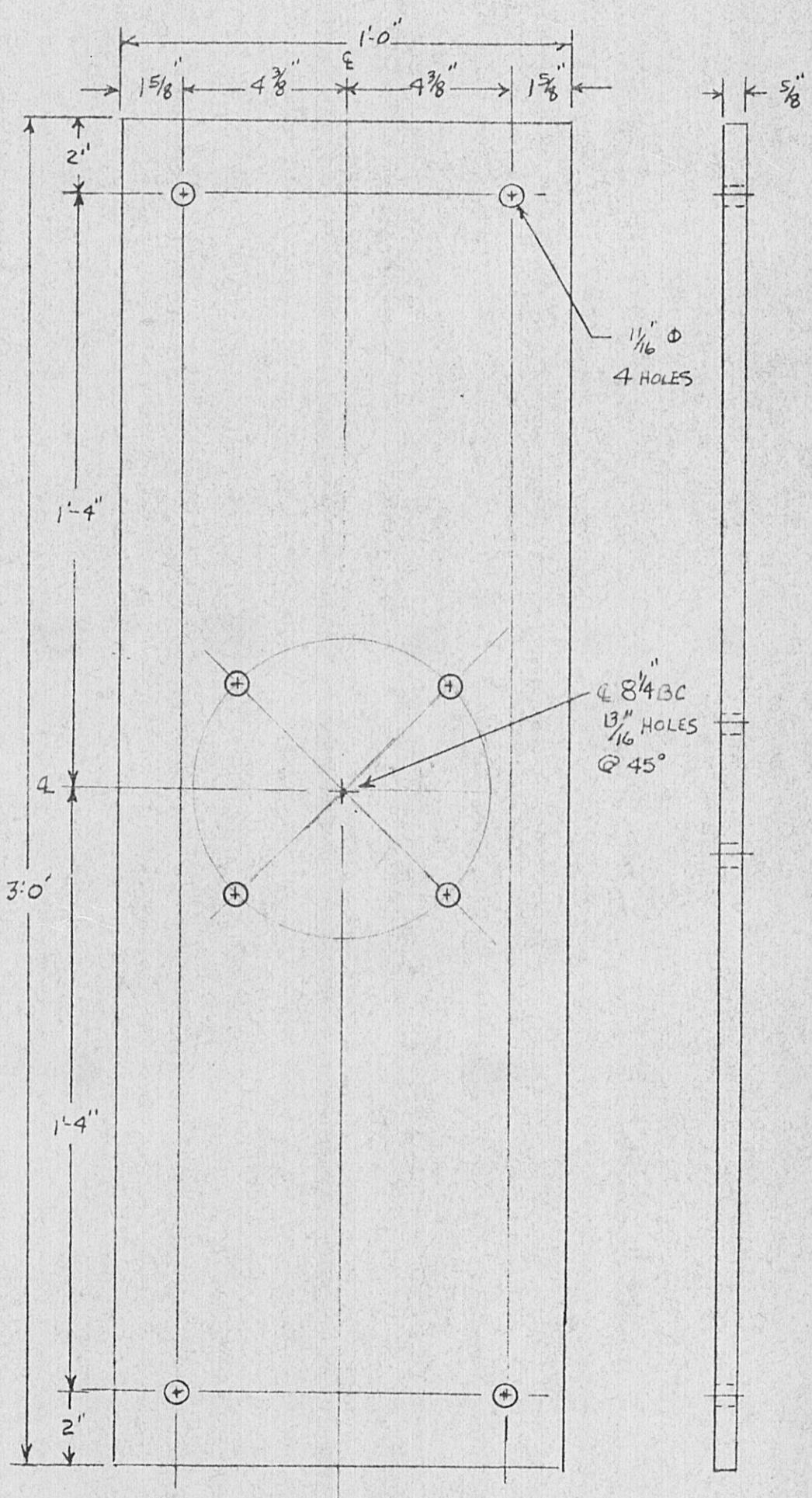
ASSEMBLY #IM (INSULATOR MOUNTING)

9-REQ'D
SCALE: 1/4"=1"



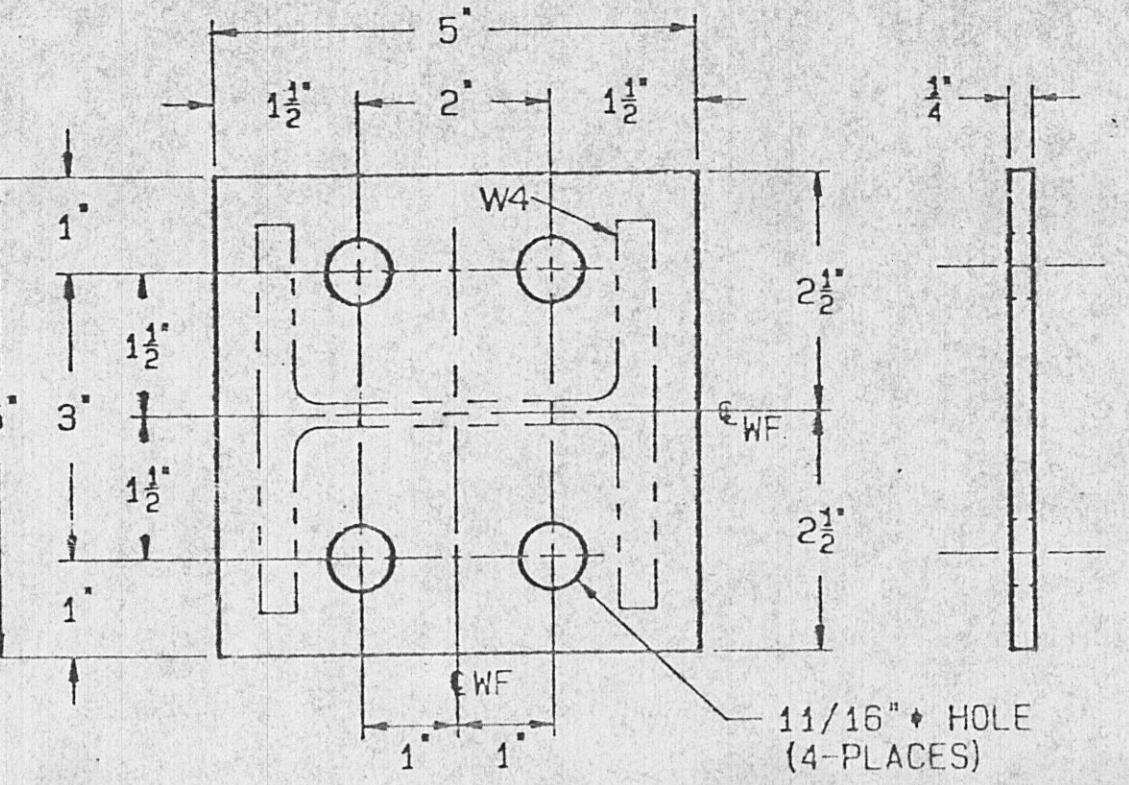
ASSEMBLY #VWP (VEE SWIVEL PLATE)

6 - REQ'D.
SCALE: 1/4"=1"
MATL: 5/8" x 1" x 3' LONG PLATE



ASSEMBLY #ISP (INSULATOR SUPPORT PLATE)

6 - REQ'D.
SCALE: 1/4"=1"
MATL: 5/8" x 1" x 3' LONG PLATE

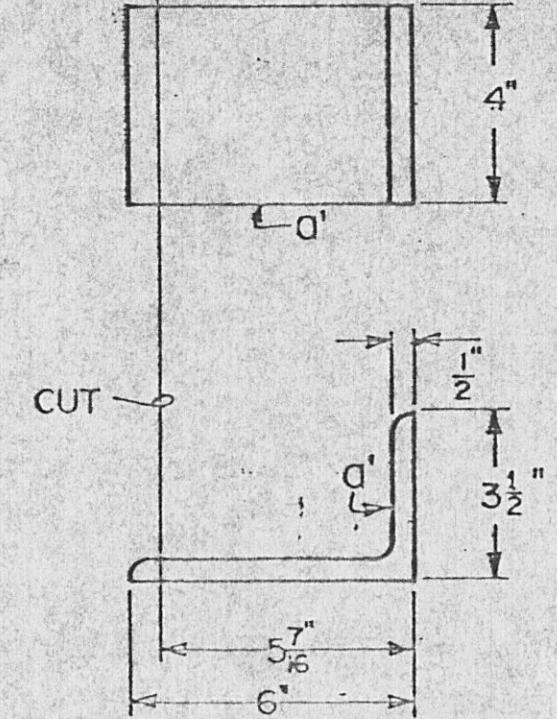


DET. #10 TEP

2-REQ'D FOR EACH
SUBASSEMBLY HTWF

SCALE: 1/2" = 1"

MATERIAL 1/4" x 5" x 0'-5" LONG PLATE

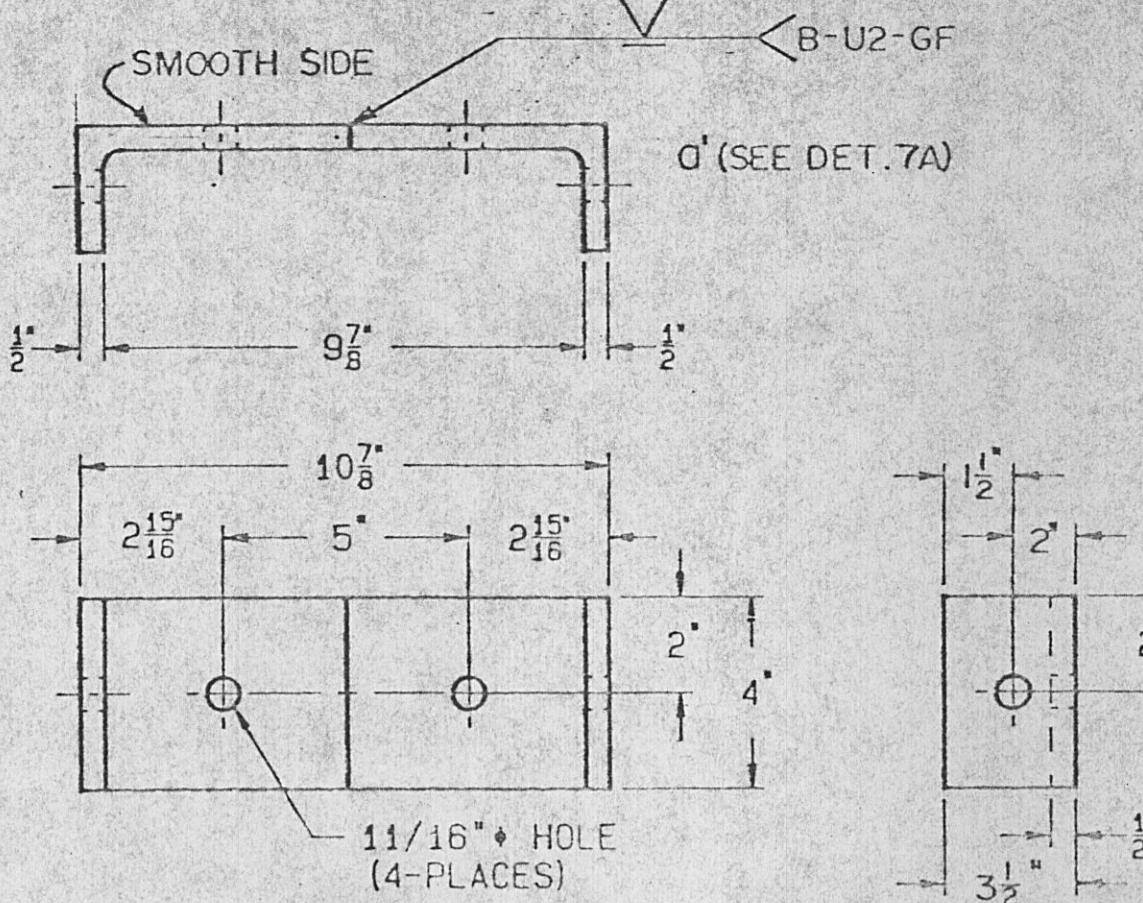


DET. #7A (CUT ANGLE) ITEM A

2-REQ'D FOR EACH
SUBASSEMBLY ESH

SCALE: 1/4" = 1"

MATERIAL 6" x 3-1/2" x 1/2" CUT 4" LG

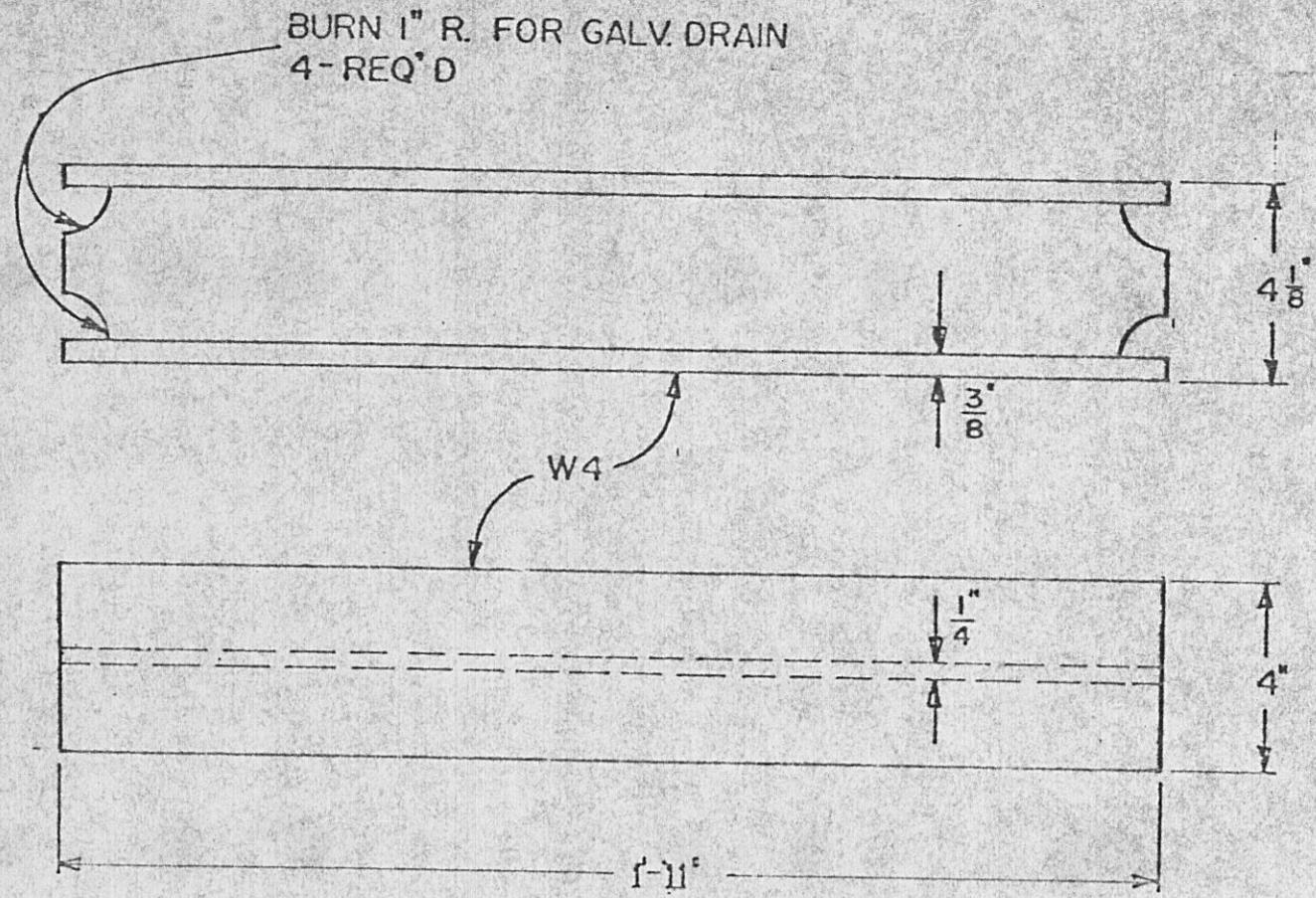


DET. #7 ESH (END STRAP)

4-REQ'D FOR EACH
ASSEMBLY #T2

SCALE: 1/16" = 1"

MATERIAL 11/16" HOLE (4-PLACES)

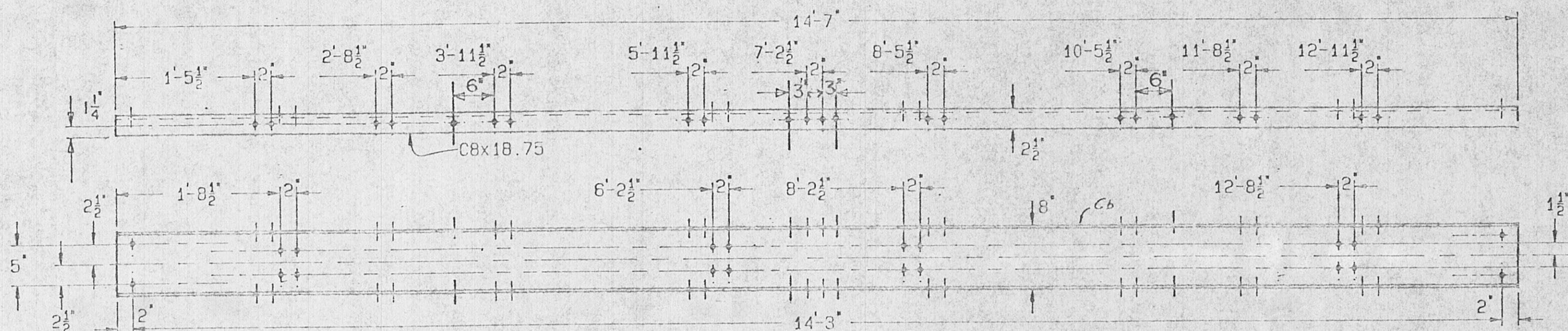


DET. #6A ITEM W4

1- REQ'D FOR EACH
SUBASSEMBLY HTWF

SCALE: 1/4" = 1"

MATERIAL W4 x 13 x 1'-11" LONG



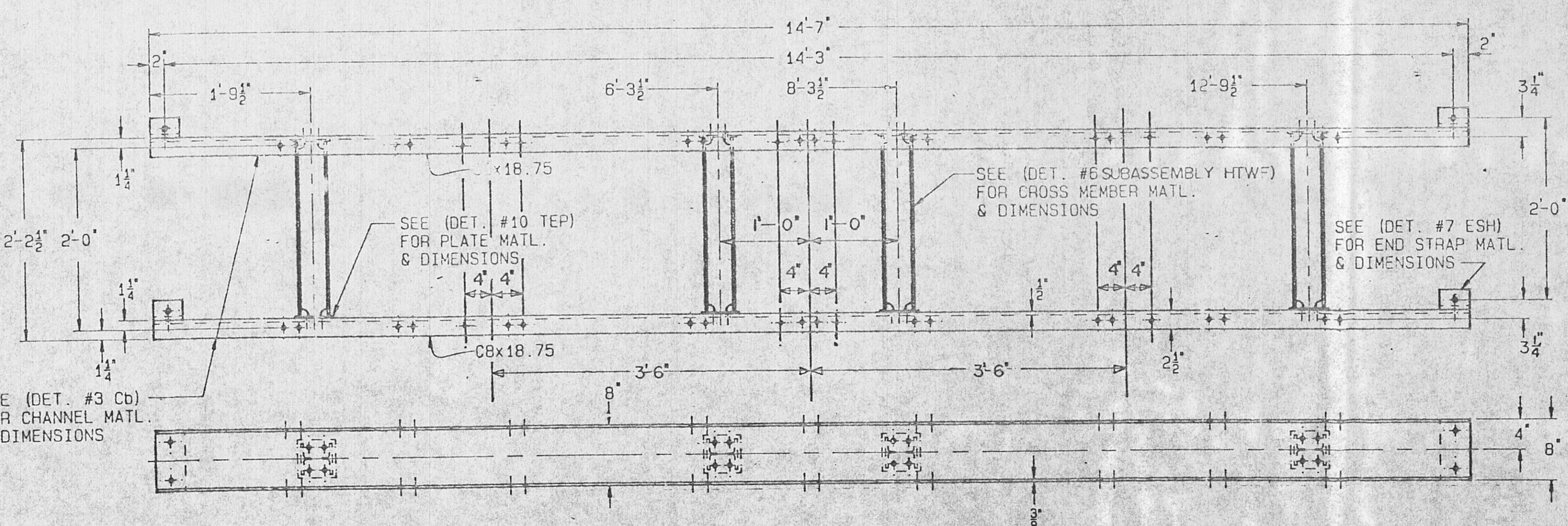
DET. #3 Cb (CHANNEL)

2-REQ'D FOR EACH
ASSEMBLY #T2

SCALE: 1" = 1'-0"

MATERIAL C8 x 18.75 x 14'-7" LONG

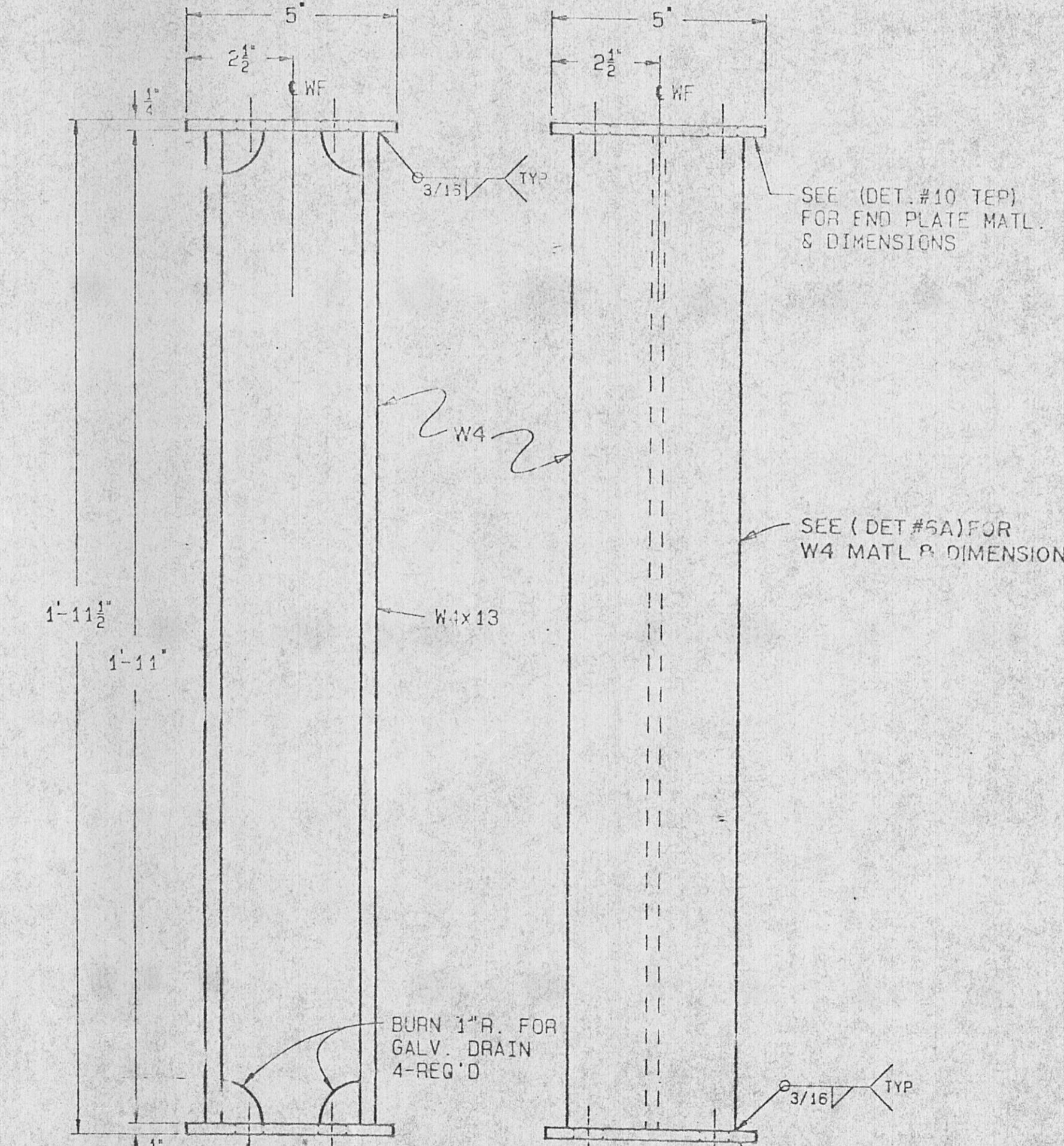
NOTE: ALL HOLES 11/16" (PUNCH BOTH FLGS.)



ASSEMBLY #T2 (TRUSS)

1-REQ'D

SCALE: 1" = 1'-0"



DET. #6 SUBASSEMBLY HTWF

4-REQ'D FOR EACH
ASSEMBLY #T2

SCALE: 3/8" = 1"

ASSEMBLY #T2
(3000A. REG. SW. TRUSS)

HARRIMAN UTILITY BOARD
BLAIR ROAD SUBSTATION
STRUCTURAL STEEL DETAILS

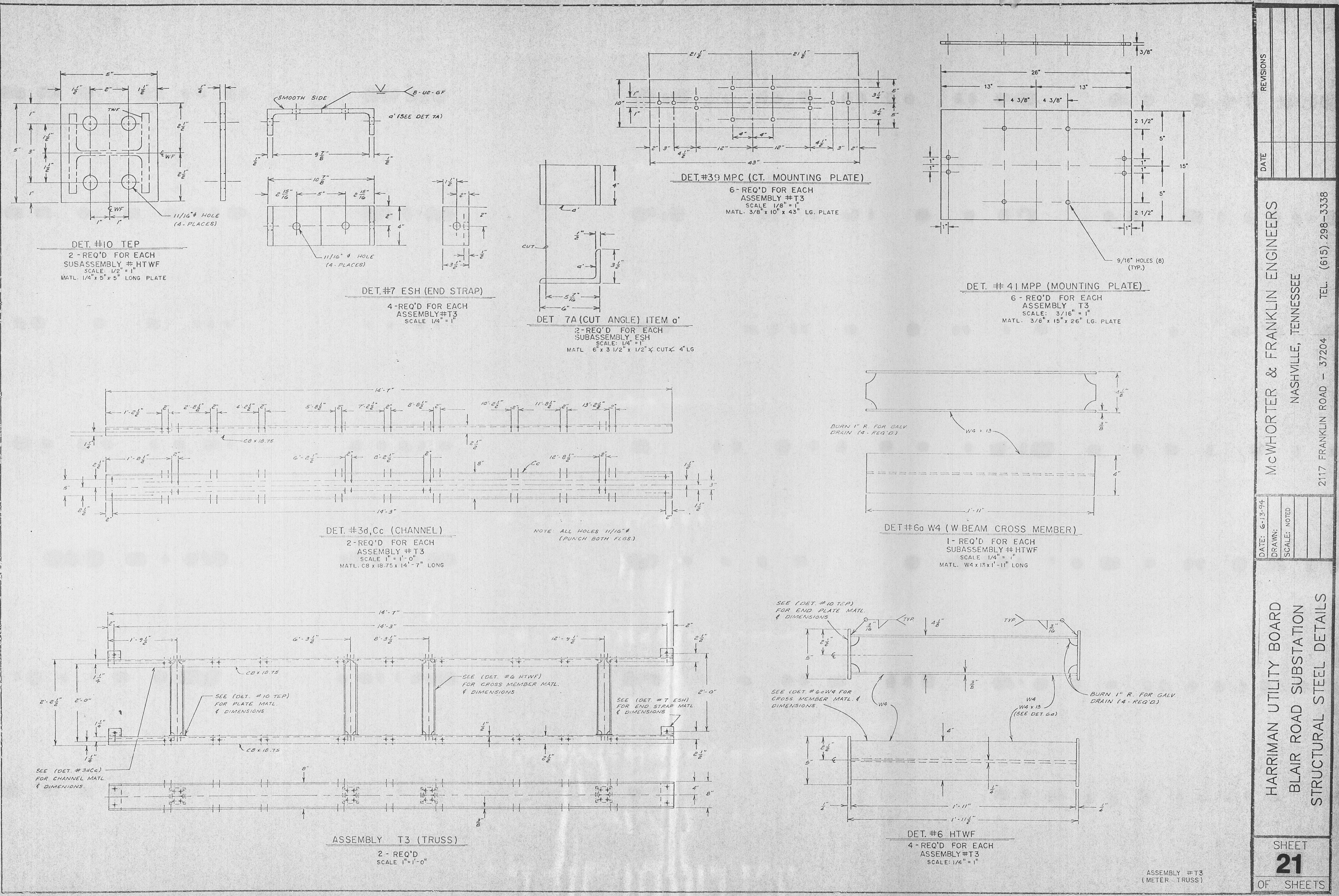
McWHORTER & FRANKLIN ENGINEERS

NASHVILLE, TENNESSEE

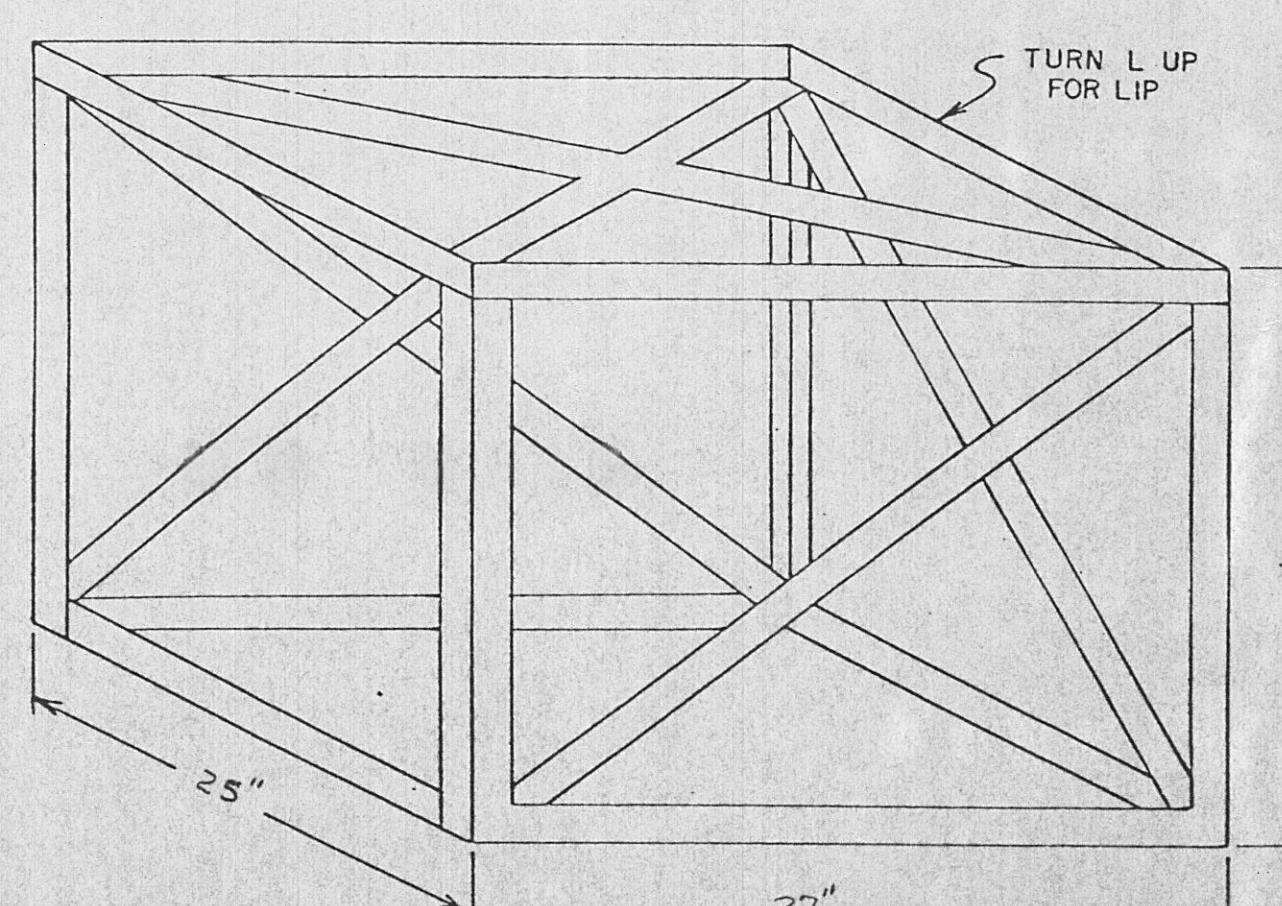
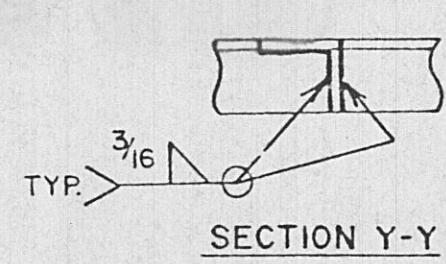
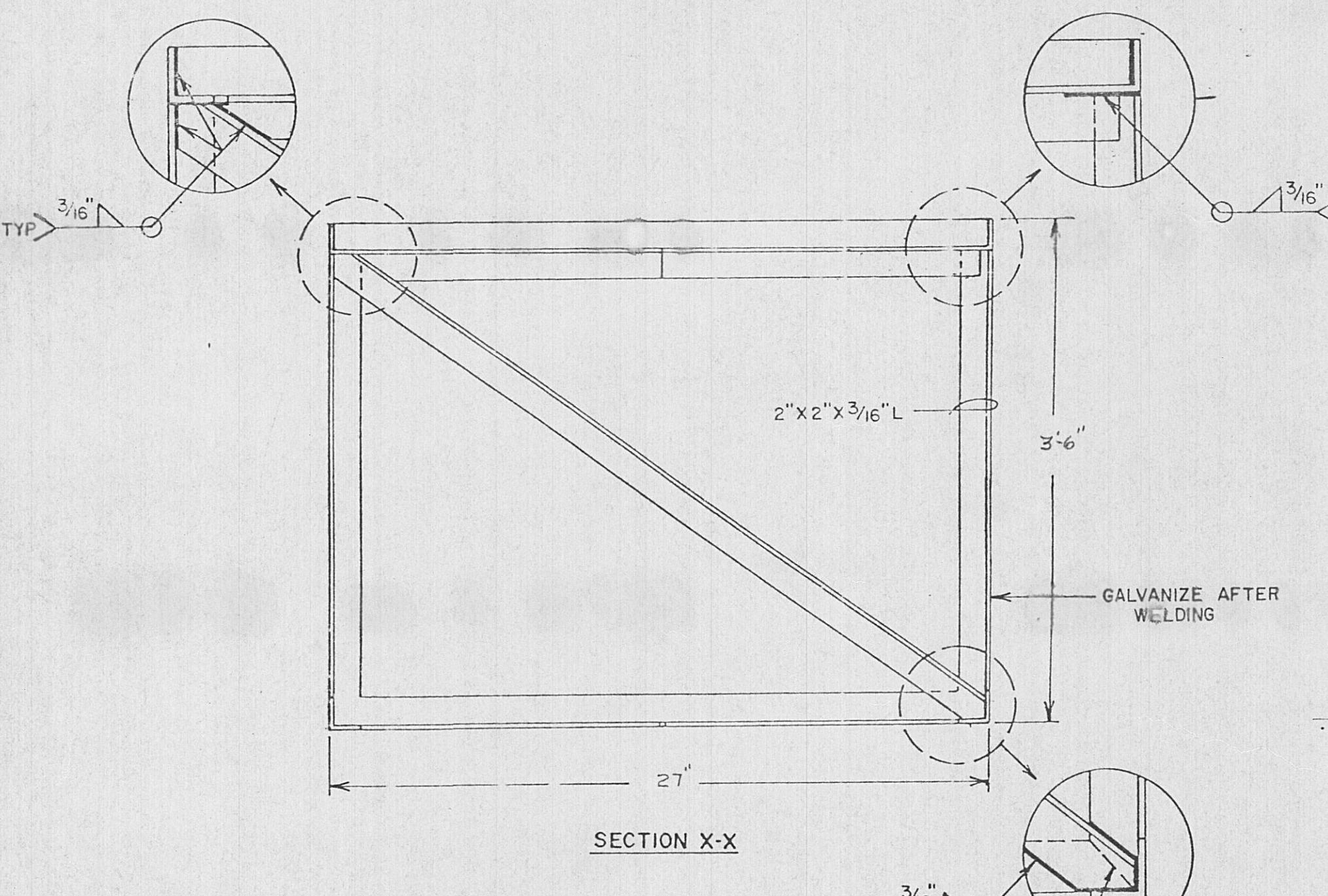
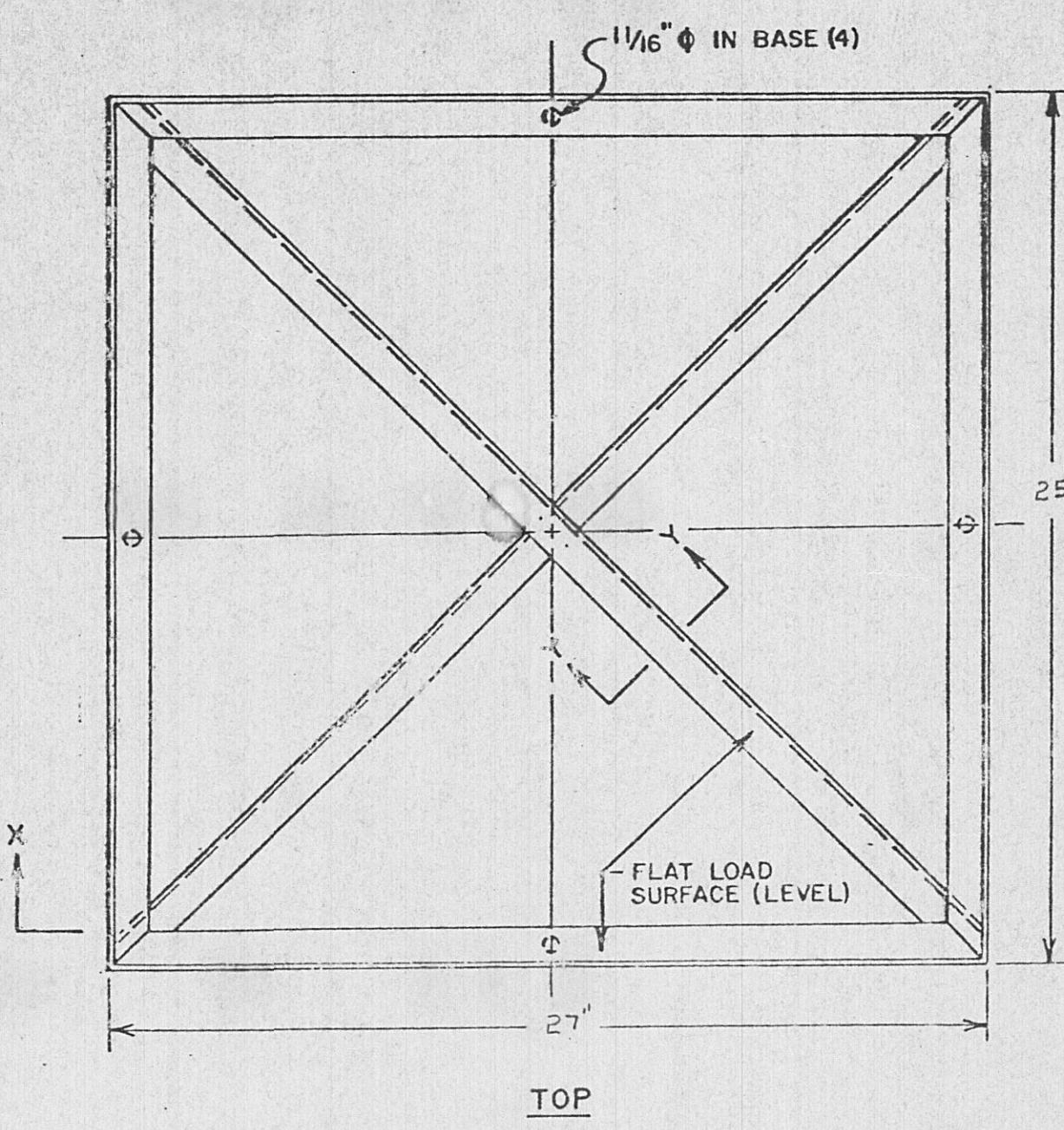
SHEET
20
OF SHEETS

DATE: 6-8-94
DRAWN: B.C.
SCALE: NOTED

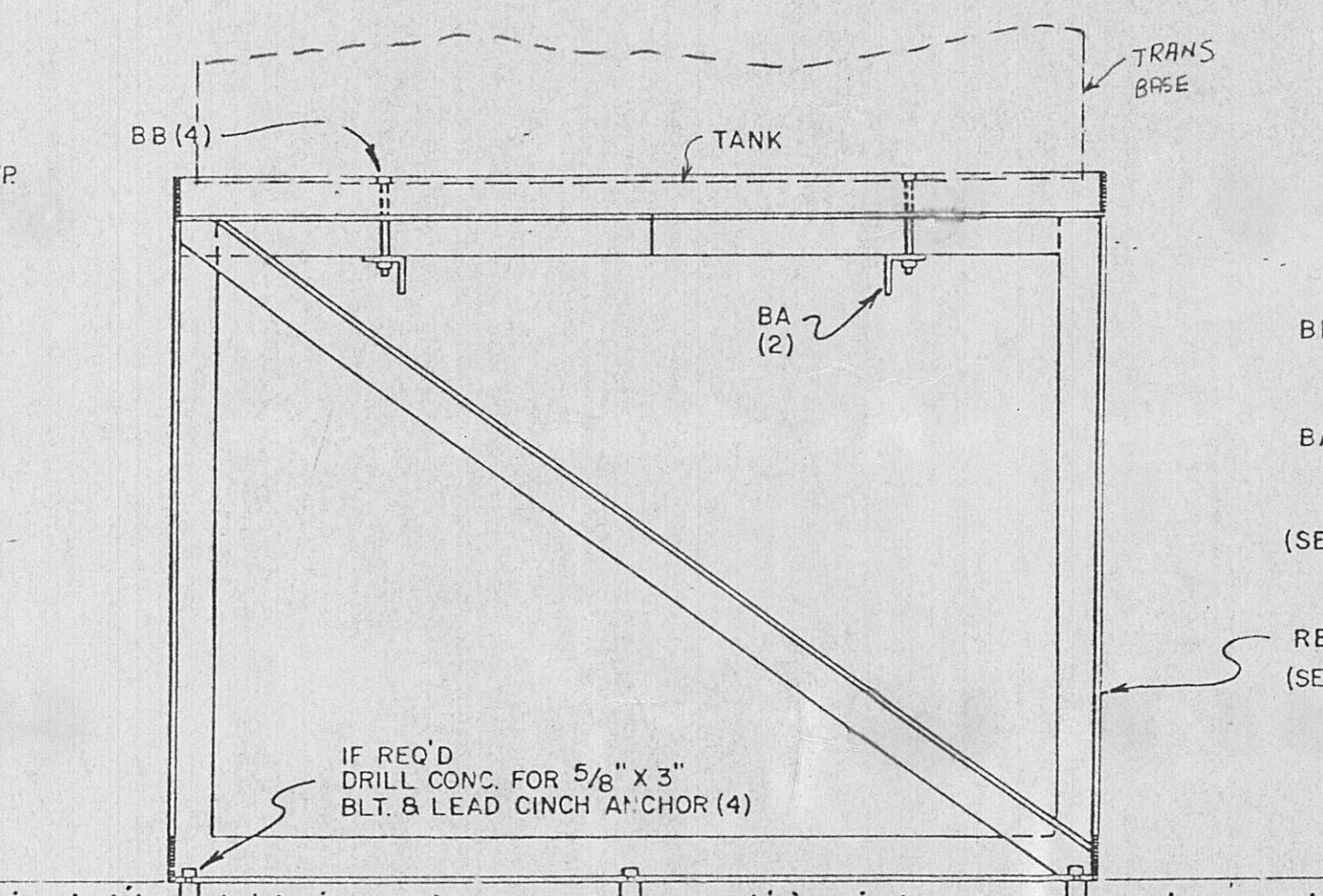
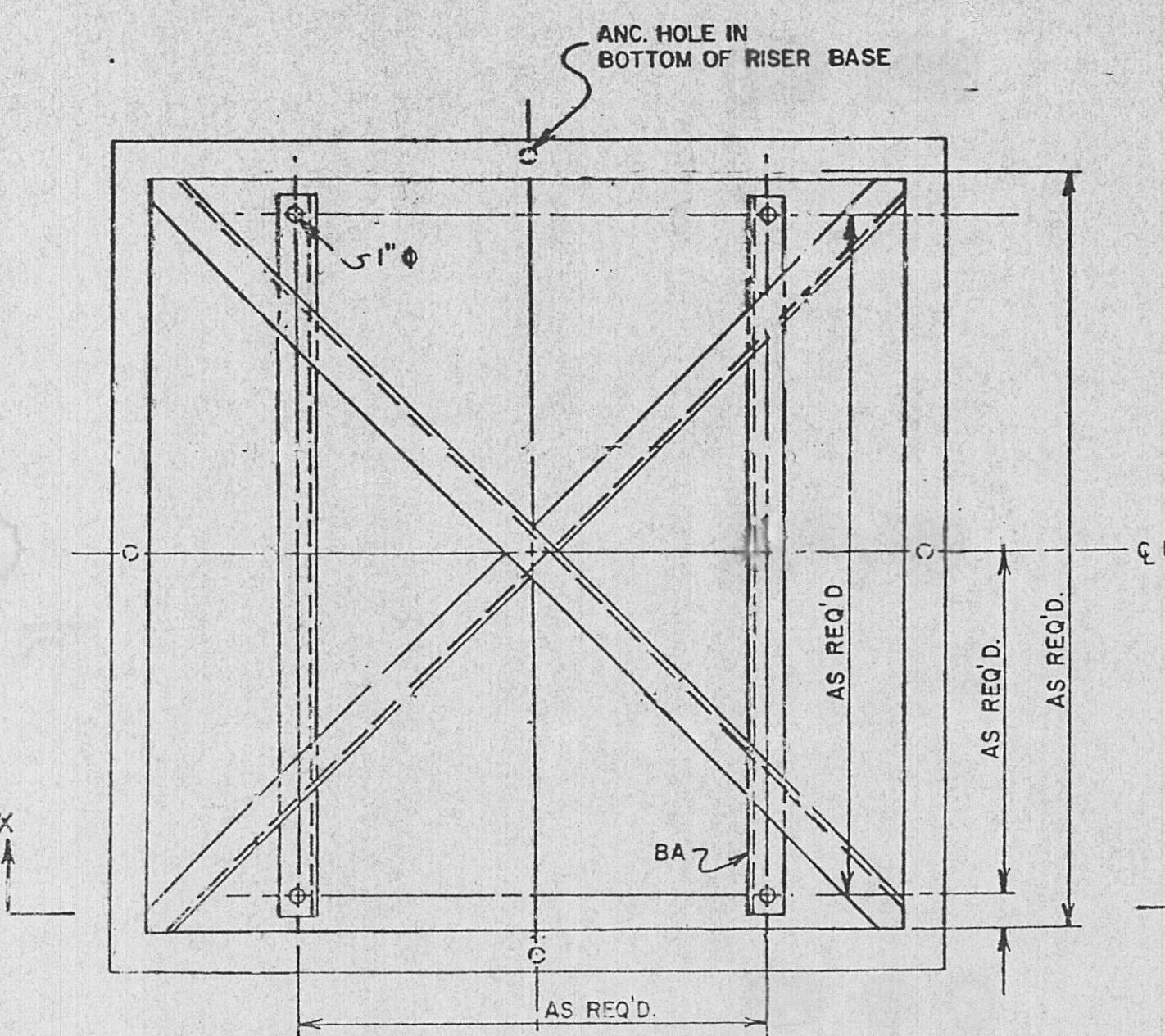
REVISIONS
DATE _____
TEL. (615)298-3338



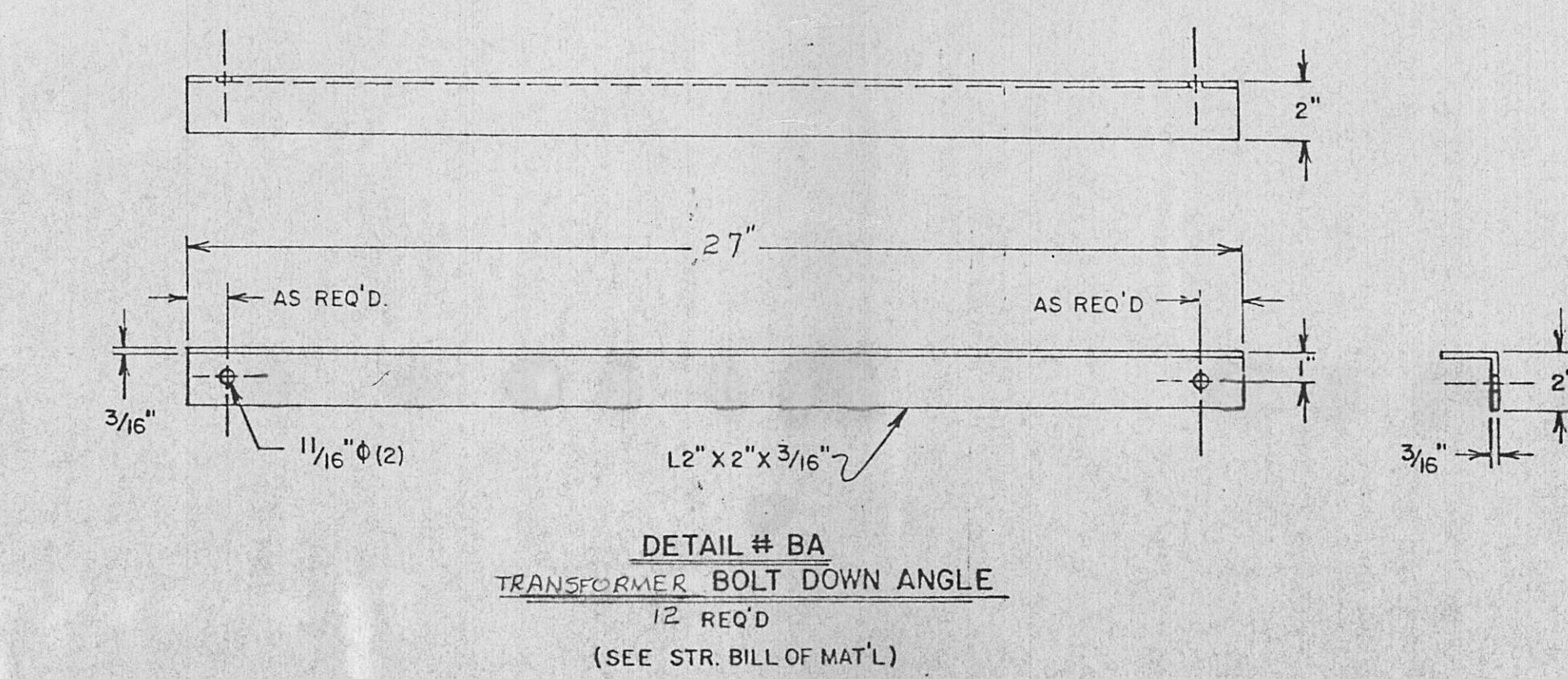
RISER STAND
500 KVA TRANS.



500 KVA TRANS. BASE MOUNTING



ASSEMBLY # RB
TRANS. RISER STAND
6 REQ'D.
SCALE : N.T.S.



DETAIL # BA
TRANSFORMER BOLT DOWN ANGLE
12 REQ'D.
(SEE STR. BILL OF MAT'L.)

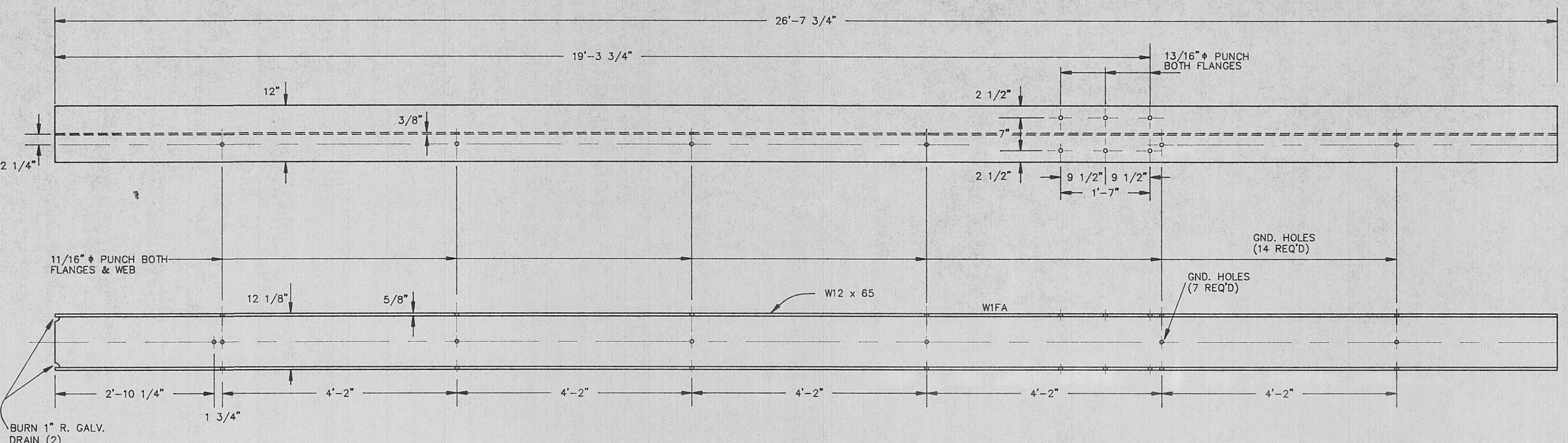
HARRIMAN UTILITY BOARD
BLAIR ROAD SUBSTATION
STRUCTURAL STEEL DETAILS

SHEET
22

OF SHEET

REVISIONS

DATE

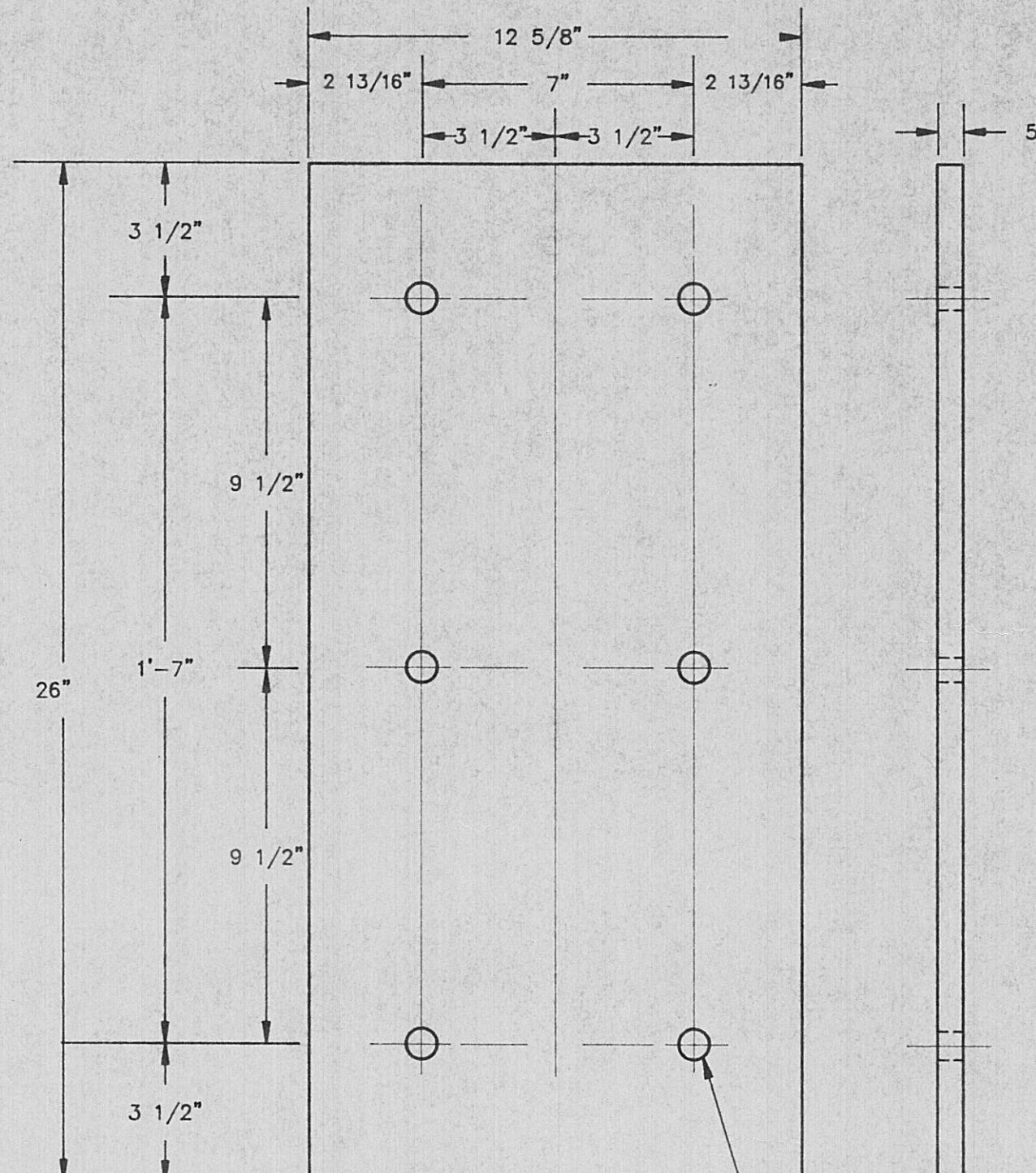


DET. # 44W1A (W COLUMN)

1-REQ'D FOR EACH
ASSEMBLY C1A

SCALE: 3/4" = 1'-0"

MATL. W12 x 65 x 26'-7 3/4" LONG

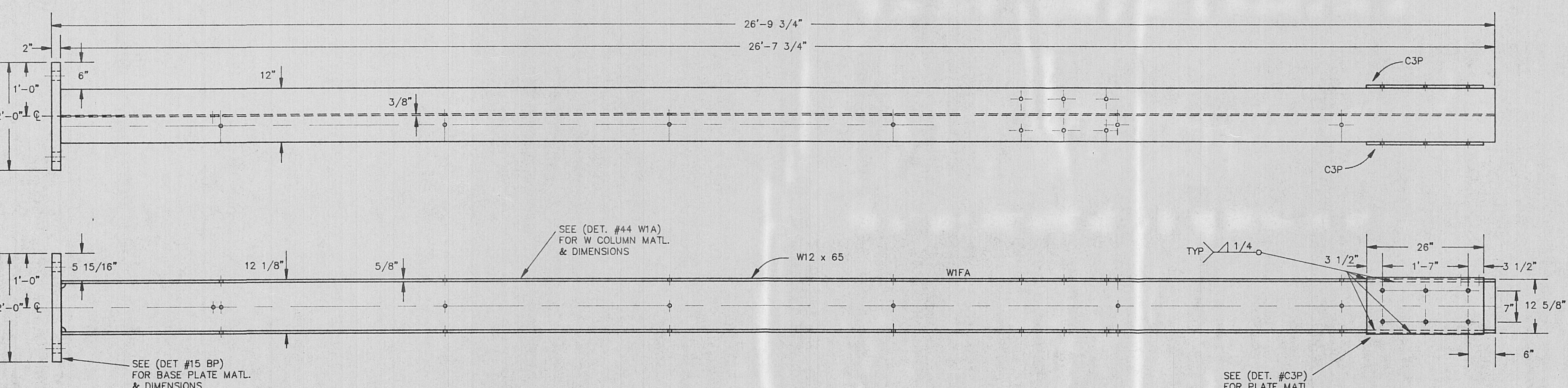


DET. # C3P (END PLATE)

2-REQ'D FOR EACH
ASSEMBLY C1A

SCALE: 1/4" = 1"

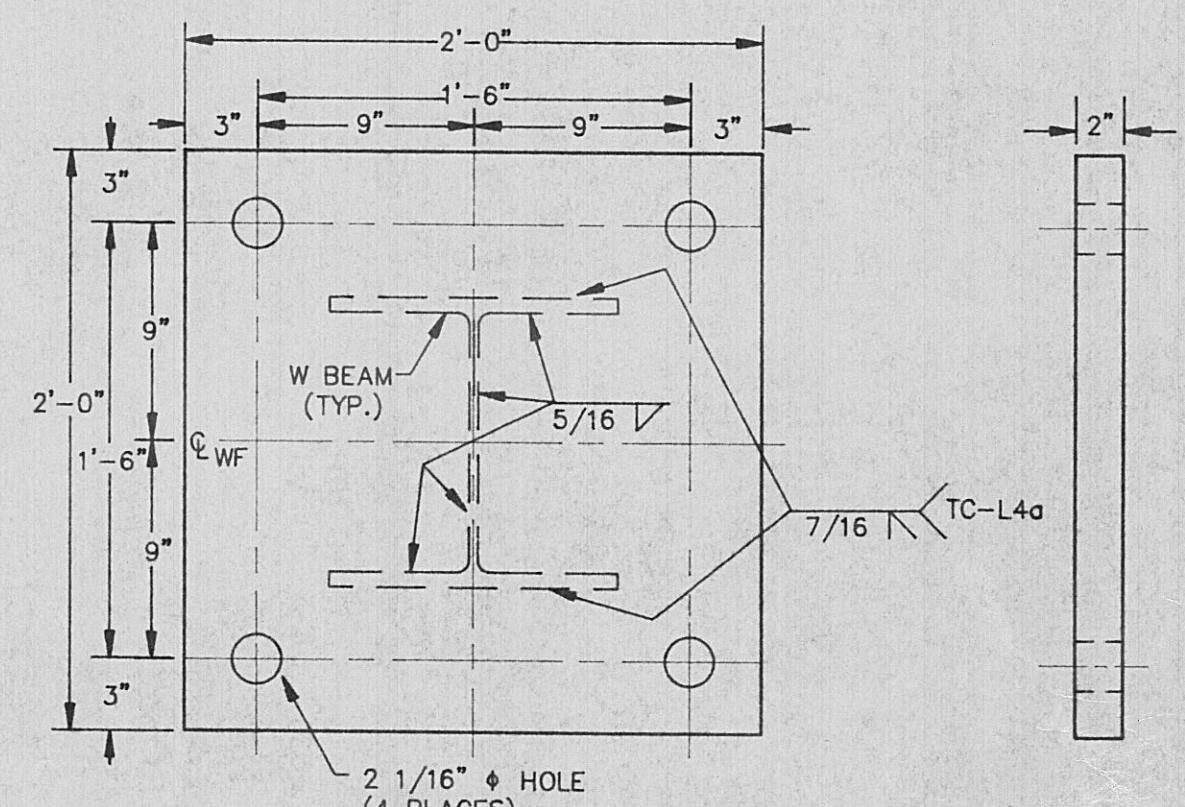
MATL. 5/8" x 12'-5/8" x 2'-2" LONG PLATE



ASSEMBLY #C1A (H.S. COLUMN)

6 -REQ'D

SCALE: 3/4" = 1'-0"



DET. # 15 BP (COLUMN BASE PLATE)

1-REQ'D FOR EACH
ASSEMBLY C1A

SCALE: 1/8"=1"

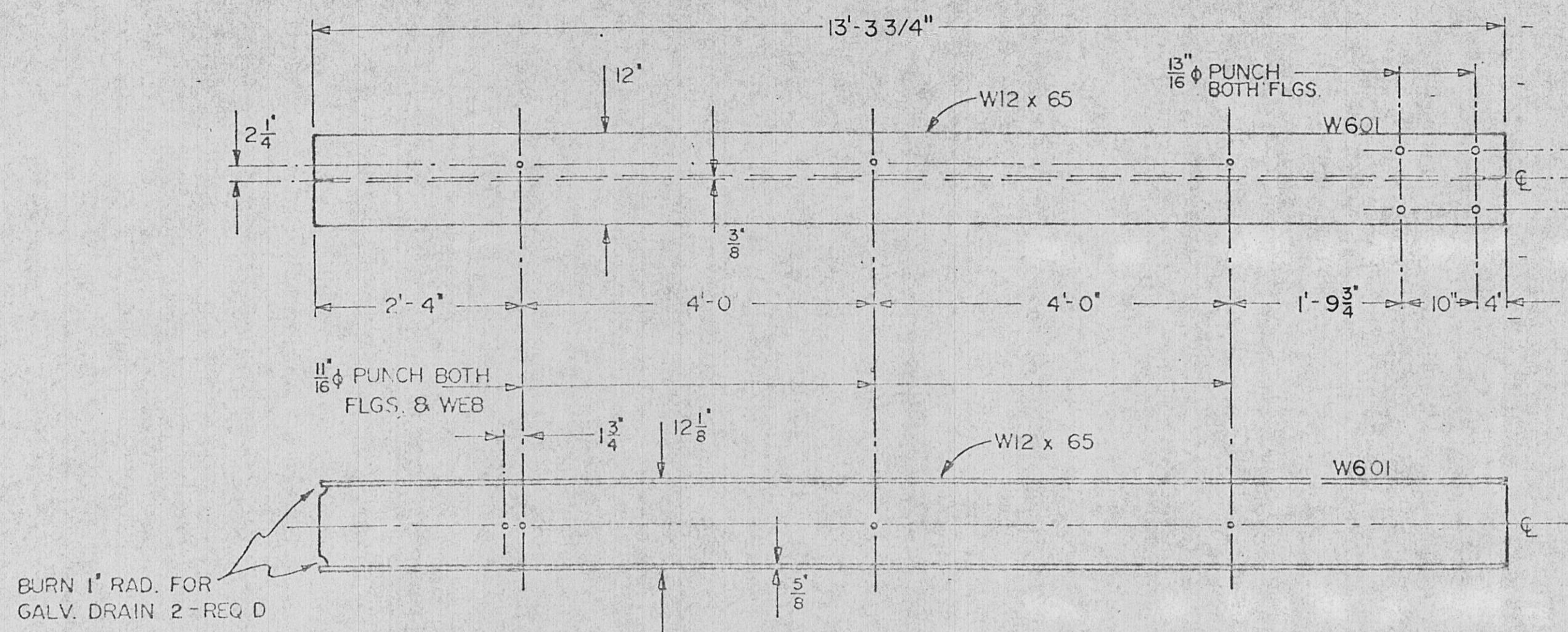
MATL. 2" x 24" x 2'-0" LG. PLATE

HARRIMAN UTILITY BOARD
BLAIR ROAD SUBSTATION
STRUCTURAL STEEL DETAILS

DATE: 6-8-94	McWHORTER & FRANKLIN ENGINEERS
DRAWN: B.C.	NASHVILLE, TENNESSEE
SCALE: NOTED	TEL. (615)298-3338

SHEET
2
OF SHEETS

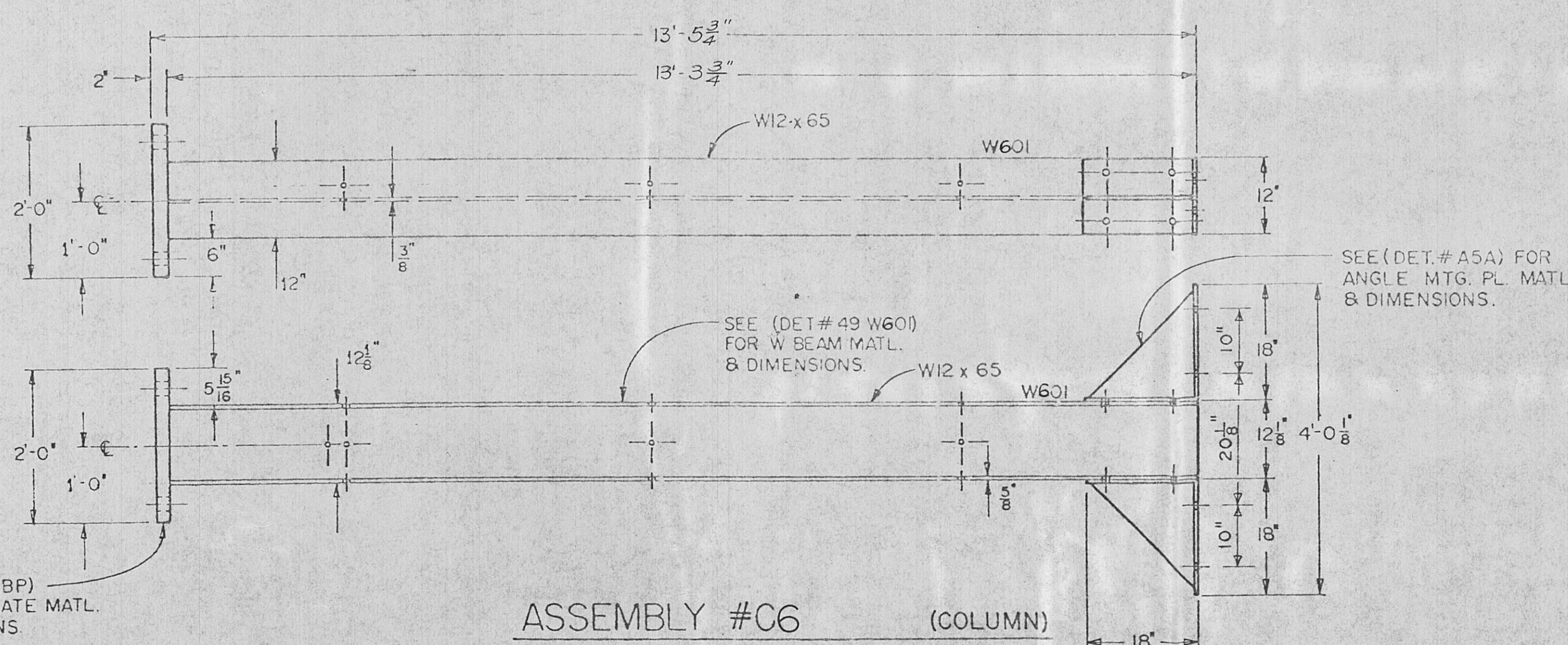
ASSEMBLY #C1A
HIGH SIDE COLUMN



DET. #49, W601 COLUMN

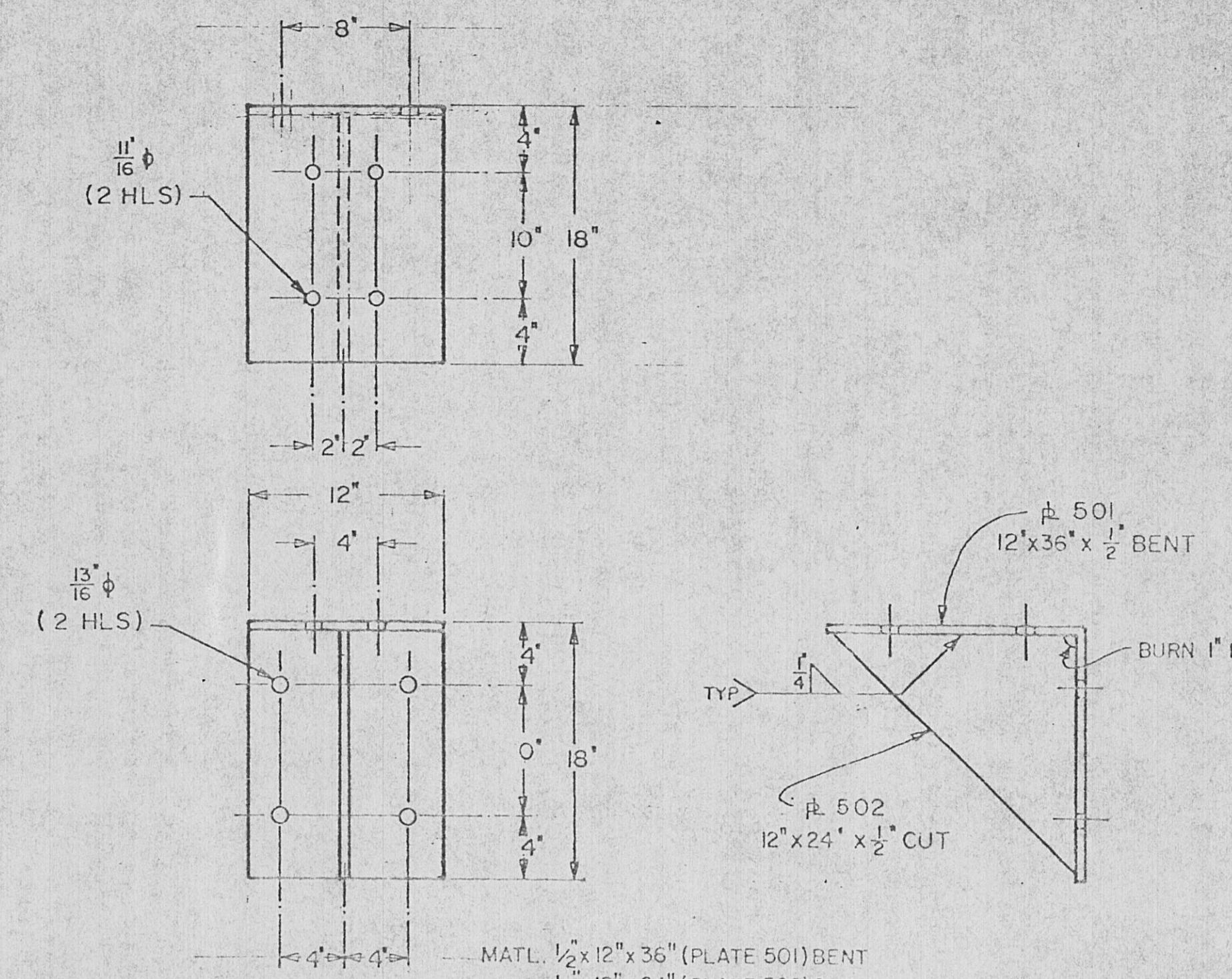
1-REQ'D FOR EACH
ASSEMBLY #C6

SCALE : N.T.S.
MATL. W12 x 65 x 13'-3 3/4" LONG



ASSEMBLY #C6 (COLUMN)

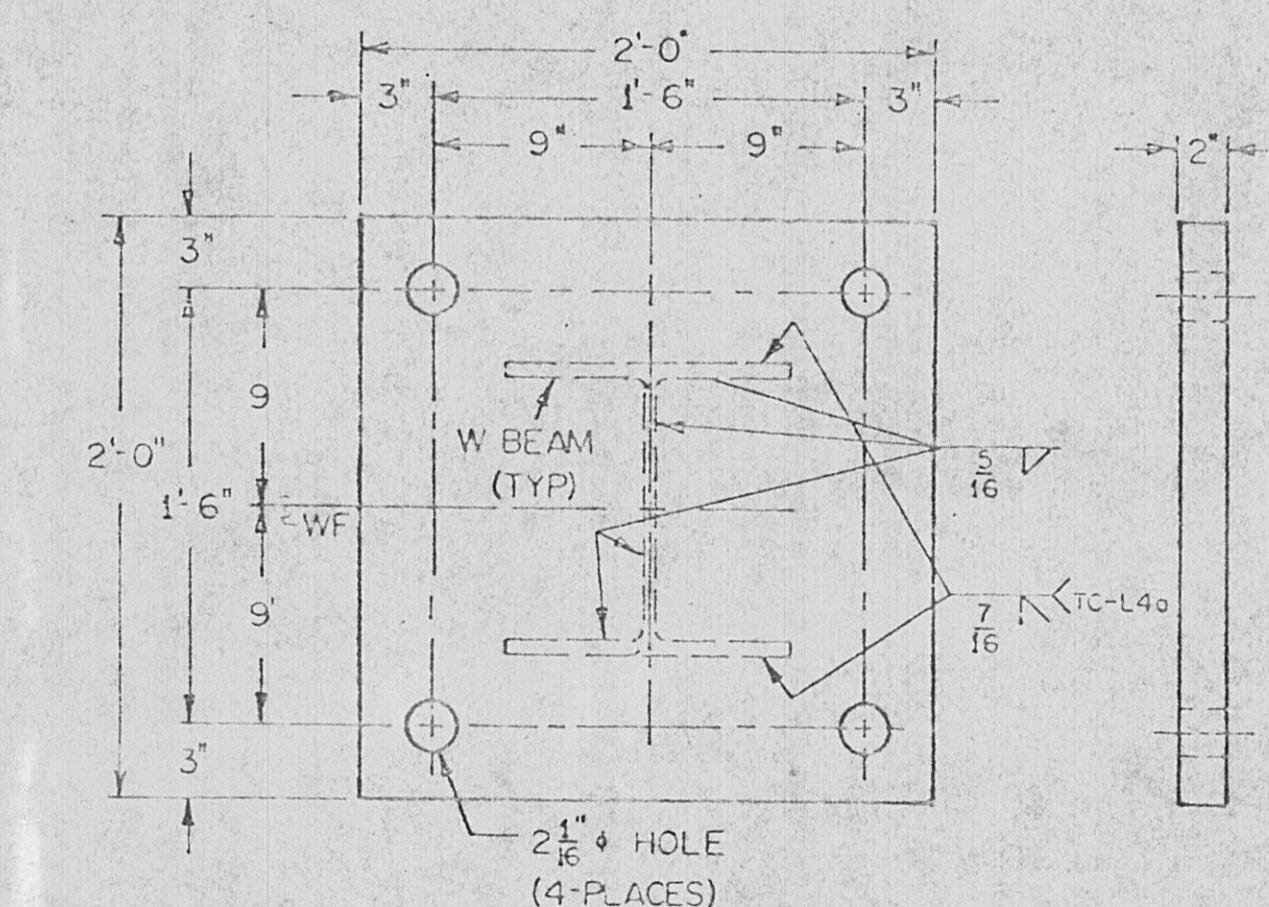
SCALE : N.T.S.
6 - # C6 REQ'D



DET. #A5A (ANGLE MTG. PL.)

2- REQ'D FOR EACH
ASSEMBLY # C6

SCALE: N.T.S.



DET. #15 BP (COLUMN BASE PLATE)

1-REQ'D FOR EACH
ASSEMBLY #C6

SCALE : 1/8" = 1'

MATL. 2' x 24' x 2'-0" LG. PLATE

HARRIMAN UTILITY BOARD
BLAIR ROAD SUBSTATION
STRUCTURAL STEEL DETAILS

DATE: 6-8-94
DRAWN: B.C.
SCALE: NOTED

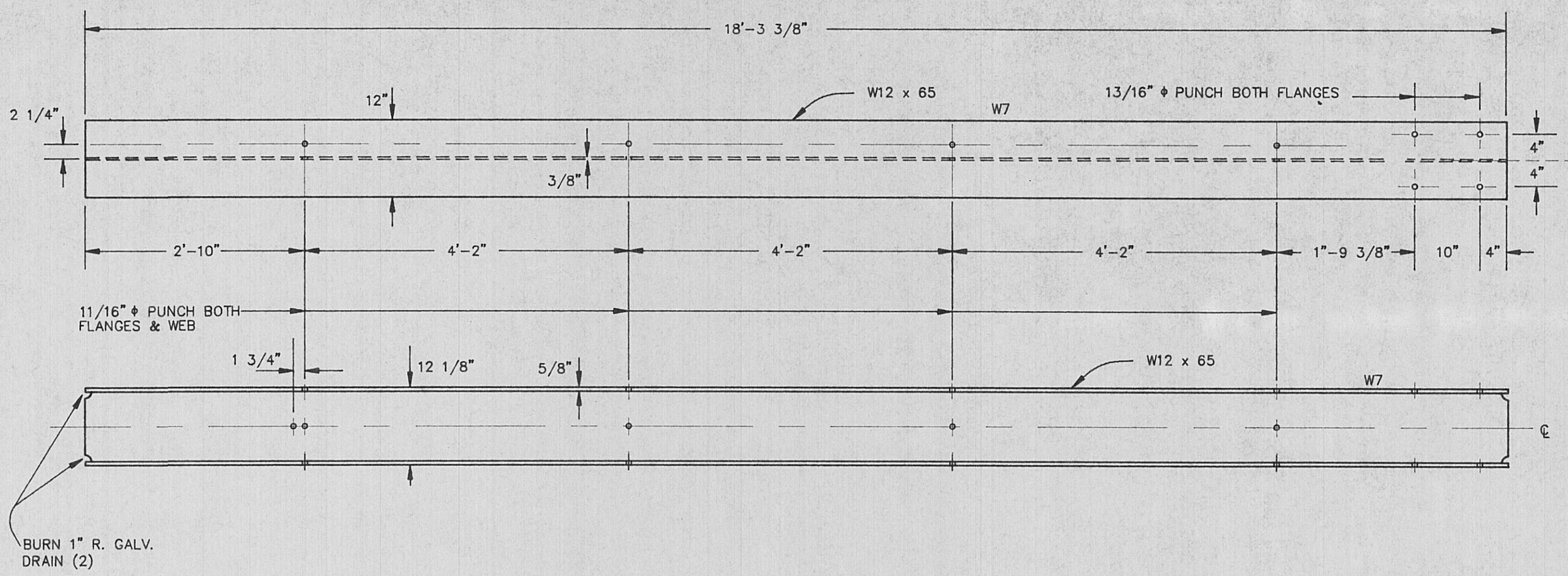
REVISIONS

McWHORTER & FRANKLIN ENGINEERS
NASHVILLE, TENNESSEE

2117 FRANKLIN ROAD - 37204 TEL. (615)298-3338

ASSEMBLY #C6
(T-STR. COLUMN)

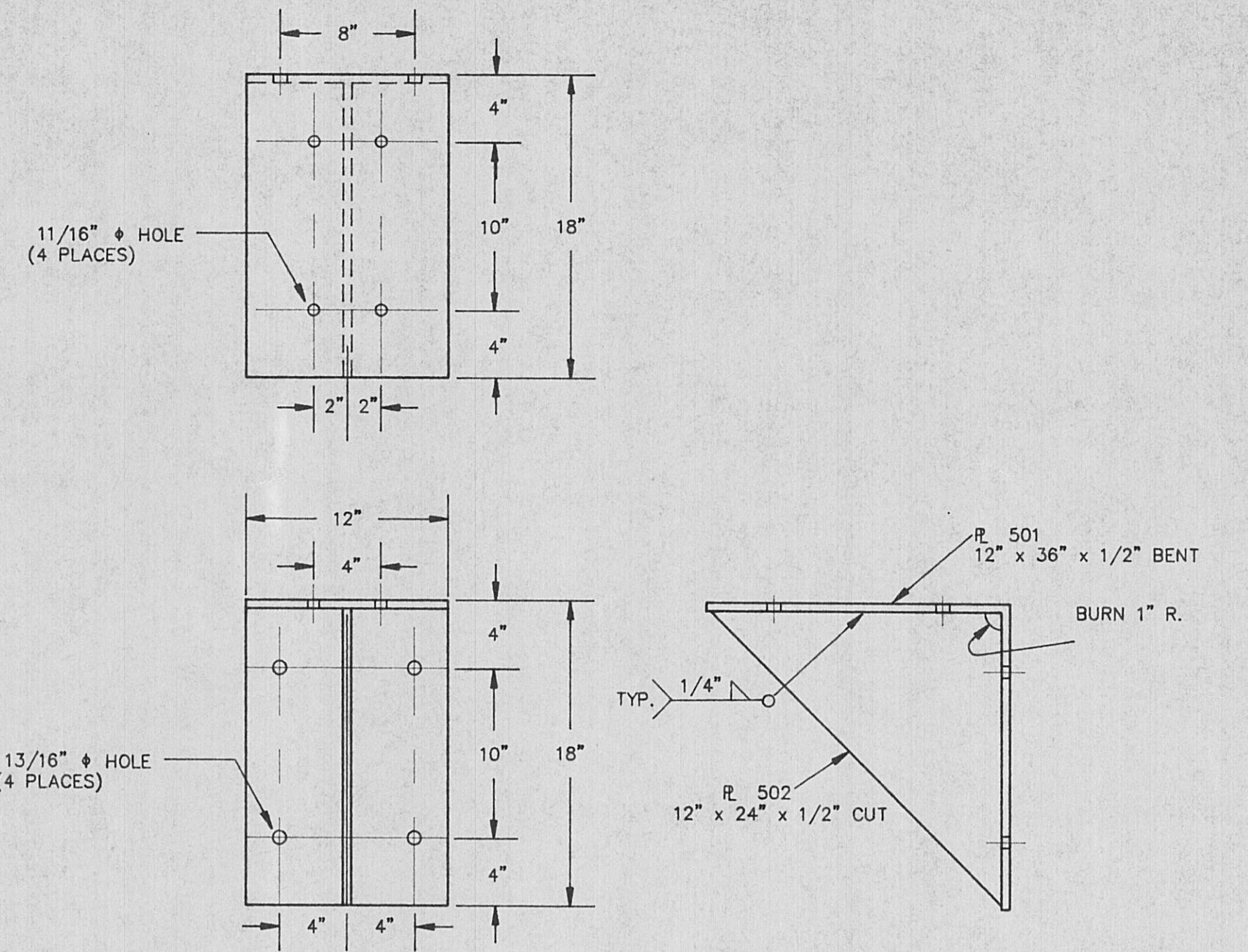
SHEET
3



DET. #53 W7 (W COLUMN)

1-REQ'D FOR EACH
ASSEMBLY C8

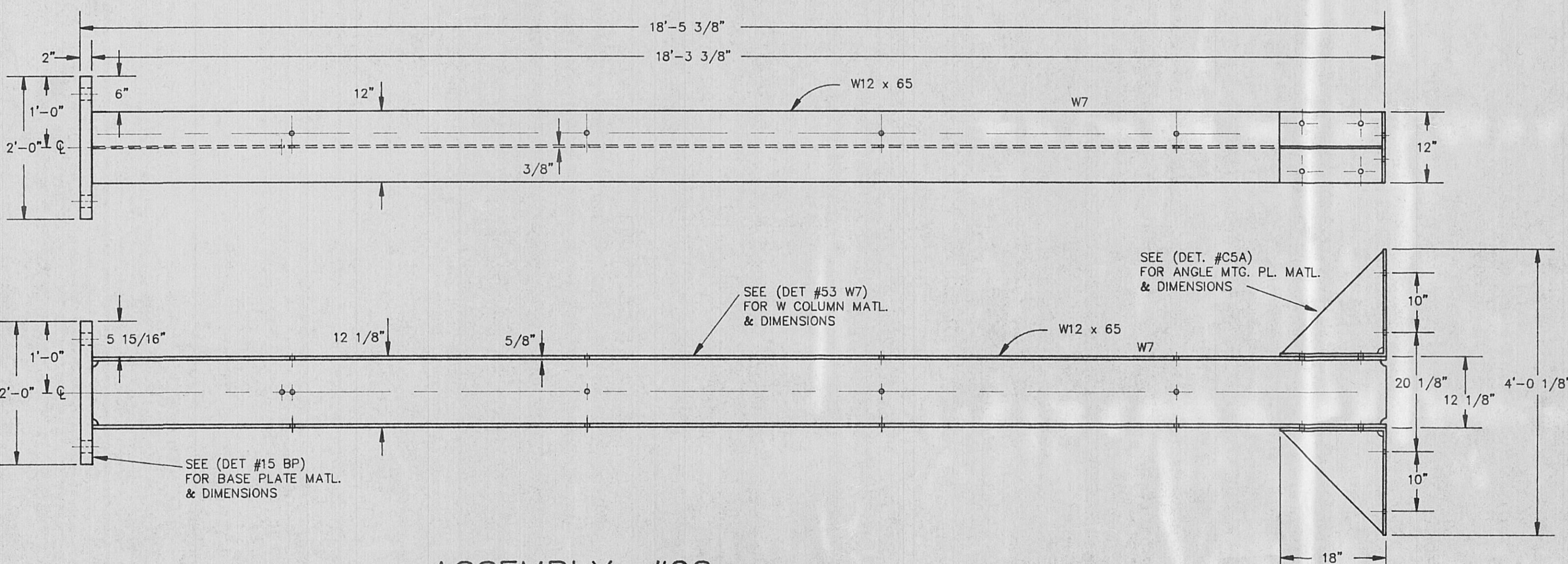
SCALE: 3/4" = 1'-0"
MATL. W12 x 65 x 18'-3 3/8" LONG



DET. #A5A (ANGLE MTG. PL.)

2-REQ'D FOR EACH
ASSEMBLY C8

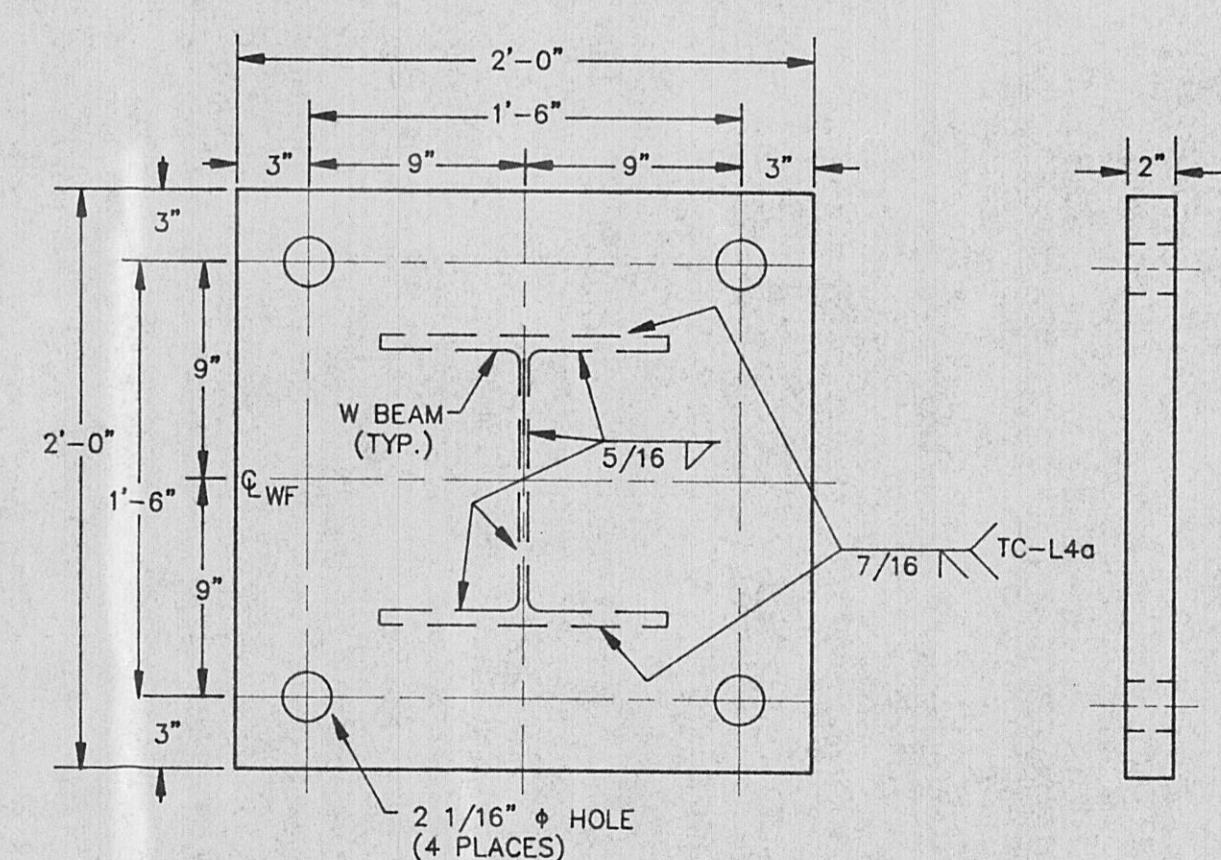
SCALE: 1/8"=1"
MATL. 12" x 36" x 1/2" (R. 501-BENT)
12" x 24" x 1/2" (R. 502 CUT)



ASSEMBLY #C8 (COLUMN)

4-REQ'D

SCALE: 3/4" = 1'-0"



DET. #15 BP (COLUMN BASE PLATE)

1-REQ'D FOR EACH
ASSEMBLY C8

SCALE: 1/8"=1"
MATL. 2" x 24" x 2'-0" LG. PLATE

HARRIMAN UTILITY BOARD
BLAIR ROAD SUBSTATION
STRUCTURAL STEEL DETAILS

SHEET
4
OF SHEETS

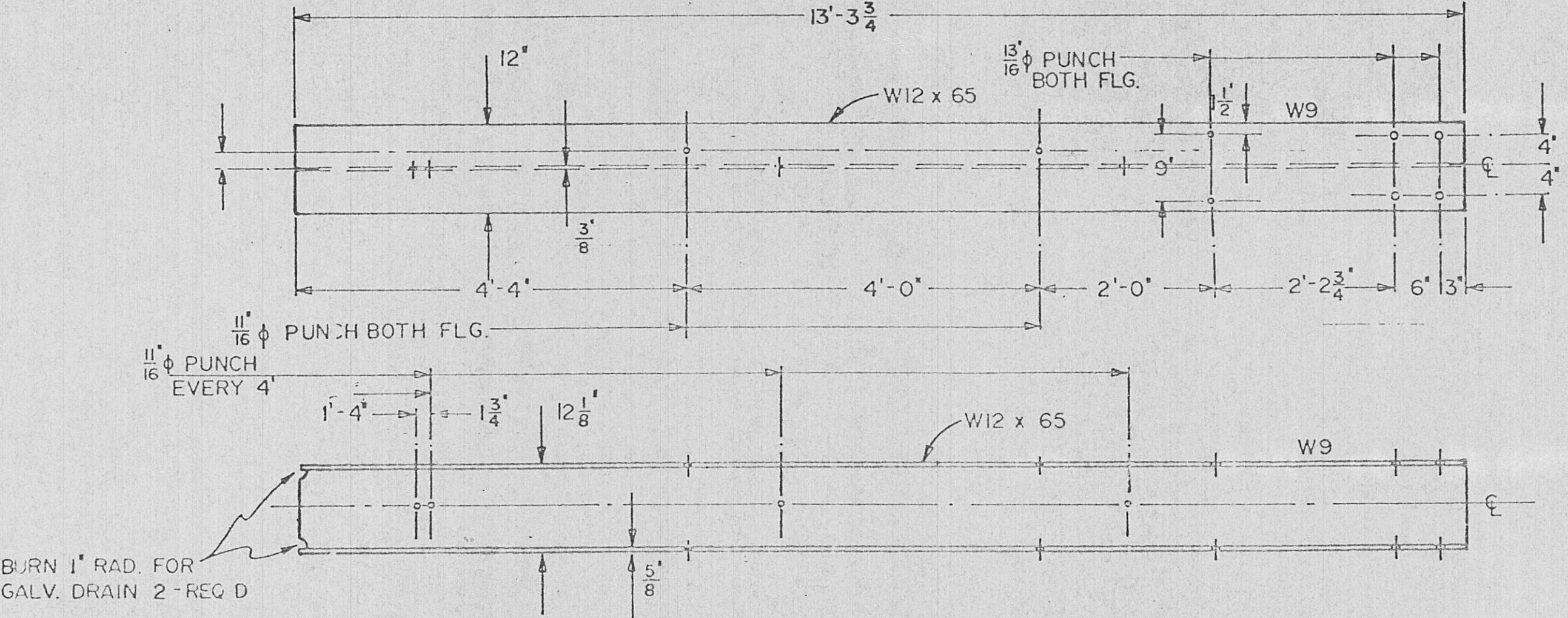
REVISIONS

McWHORTER & FRANKLIN ENGINEERS

NASHVILLE, TENNESSEE

2117 FRANKLIN ROAD - 37204 TEL. (615)298-3338

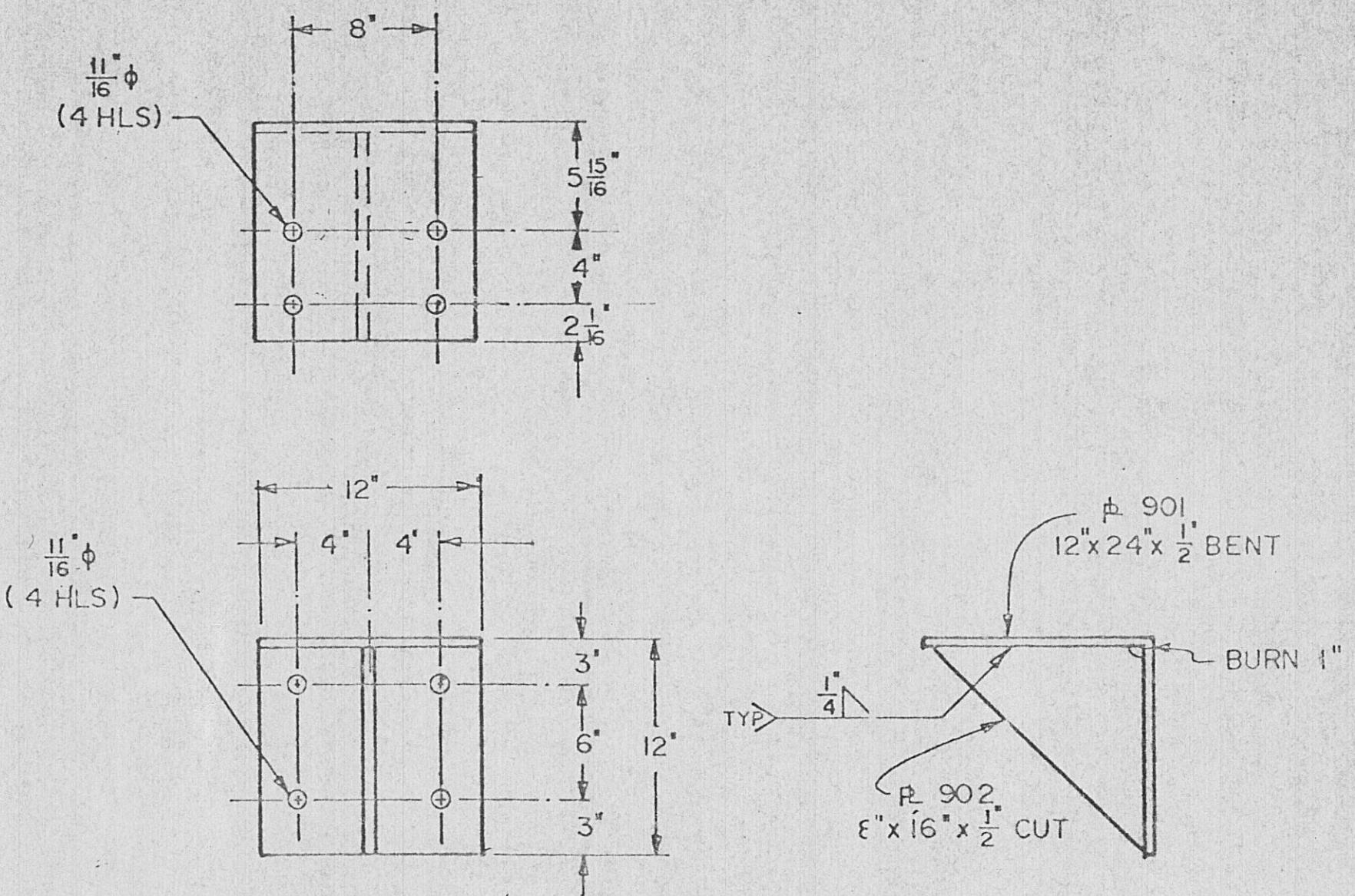
DATE: 6-8-94
DRAWN: B.C.
SCALE: NOTED



DET. #35 W9 (COLUMN W)

1-REQ'D FOR EACH
ASSEMBLY # C9

SCALE: 3/4" = 1'-0"
MATL. W12 x 65 x 13'-3 3/8" LONG.

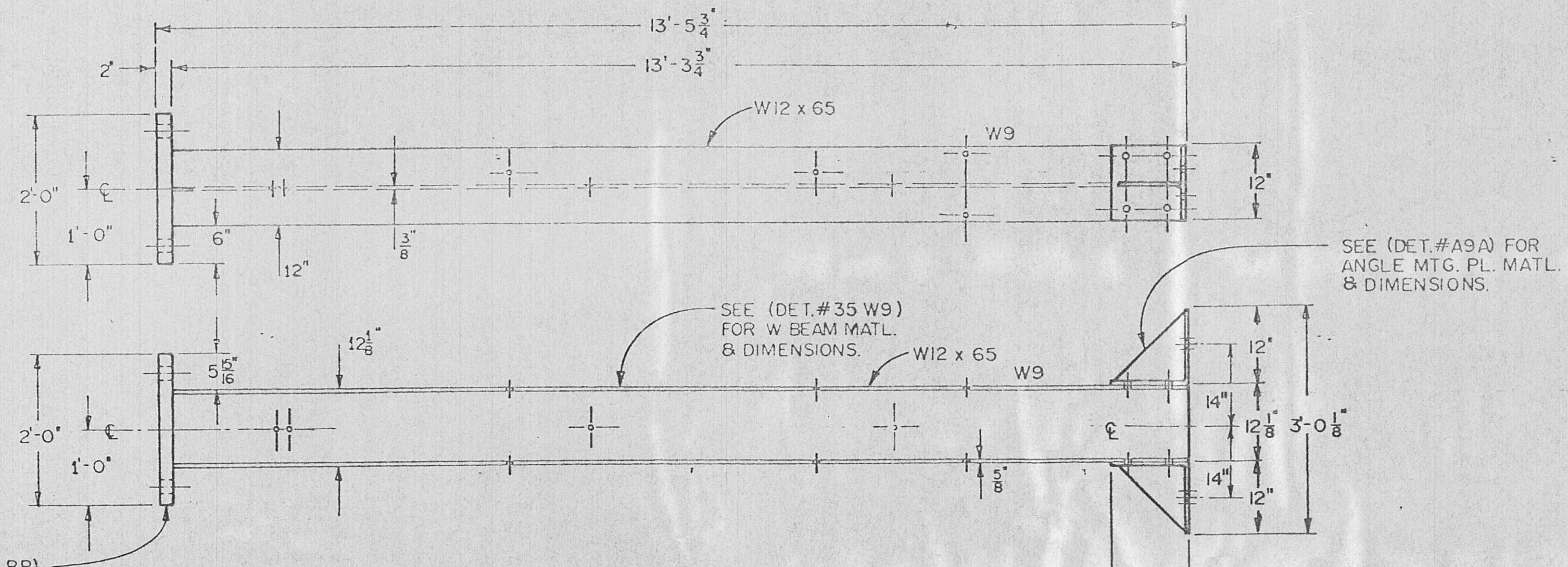


DET. #A9A (ANGLE MTG. PL.)

2-REQ'D FOR EACH
ASSEMBLY # C9

SCALE: 1/8" = 1"

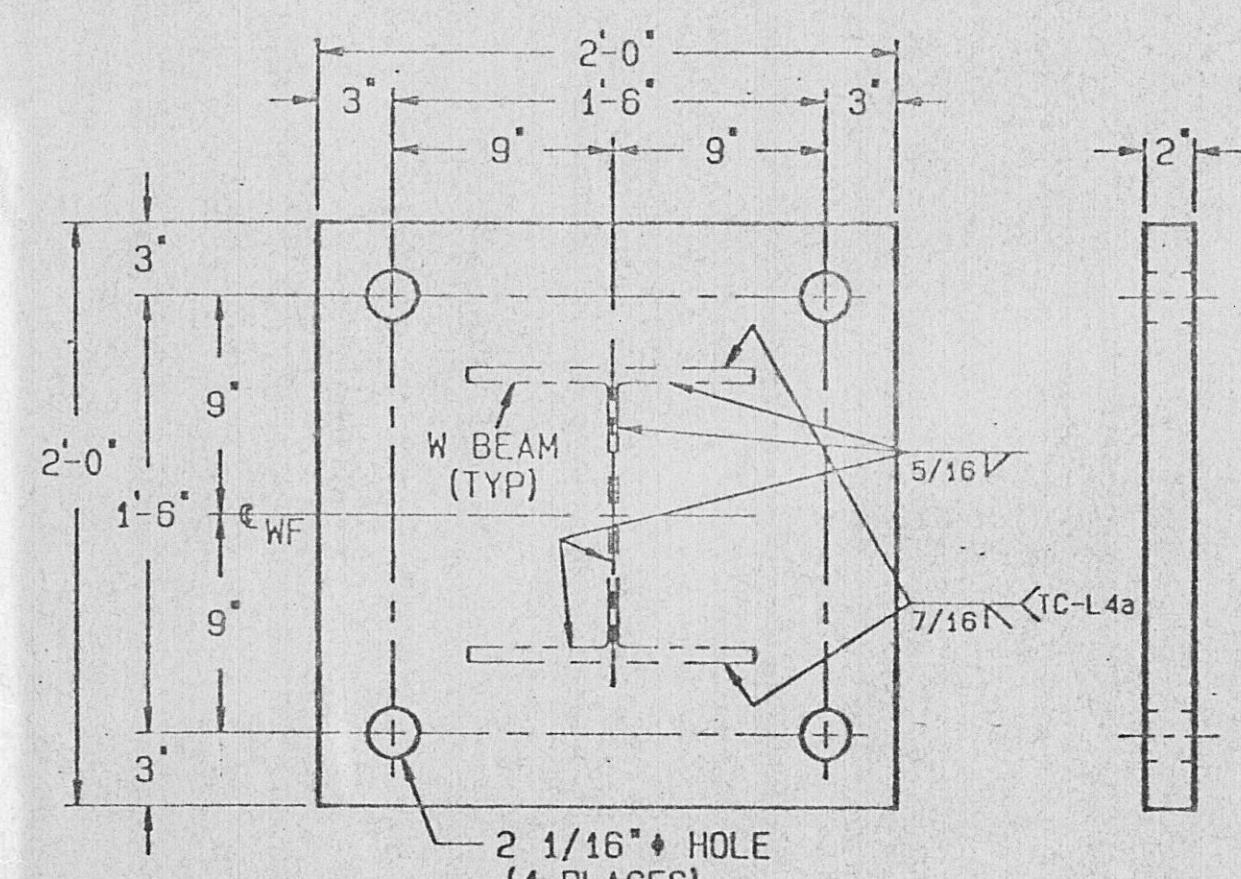
MATL. 1/2" x 12" x 24" LONG PLATE
1/2" x 8" x 16" LONG PLATE



ASSEMBLY #C9 (COLUMN)

4-REQ'D

SCALE: 3/4" = 1'-0"



DET. #15 BP (COLUMN BASE PLATE)

1-REQ'D FOR EACH
ASSEMBLY # C9

SCALE: 1/8" = 1"

MATL. 2' x 24' x 2'-0" LG. PLATE

HARRIMAN UTILITY BOARD
BLAIR ROAD SUBSTATION
STRUCTURAL STEEL DETAILS

SHEET
5
OF SHEETS

REVISIONS

DATE: 6-8-94
DRAWN: B.C.
SCALE: NOTED

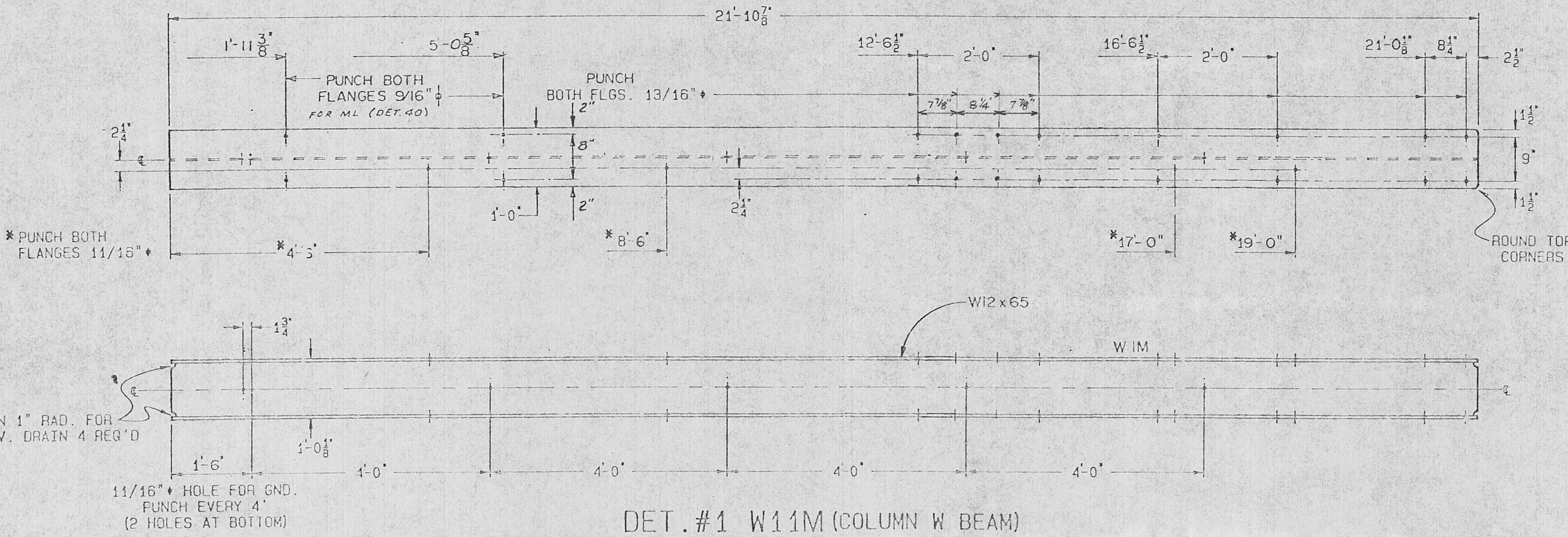
NASHVILLE, TENNESSEE

TEL. (615)298-3338

MCWHORTER & FRANKLIN ENGINEERS

NASHVILLE, TENNESSEE

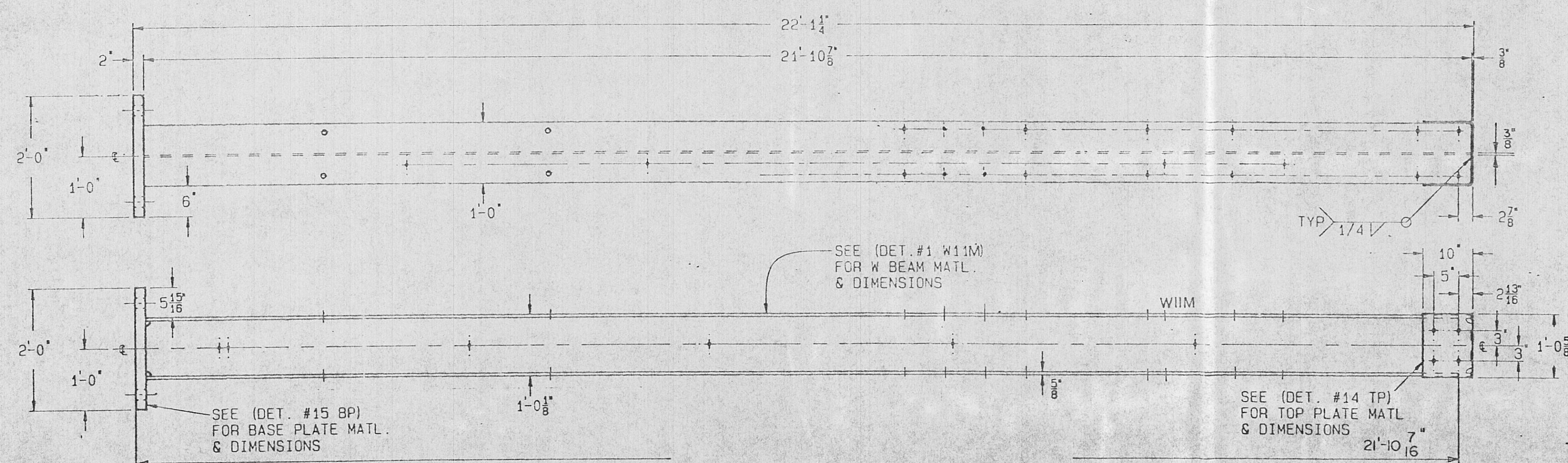
TEL. (615)298-3338



DET. #1 W11M (COLUMN W BEAM)

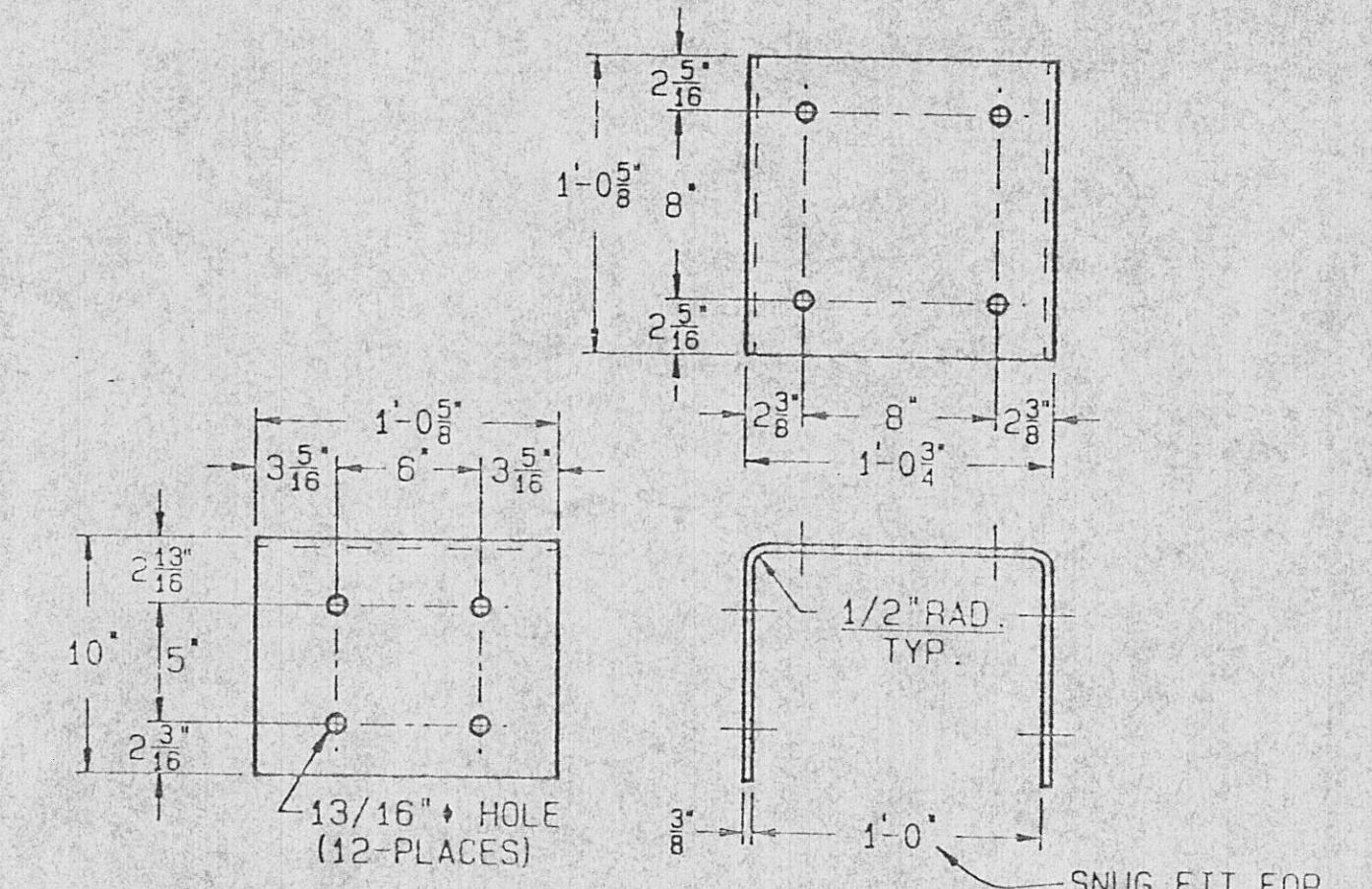
1 REQ'D FOR EACH
ASSEMBLY #C11-M

SCALE: 3/4" = 1'-0"
MATL. W12 x 65 x 21'-10 7/8" LG.



ASSEMBLY #C11-M (COLUMN)

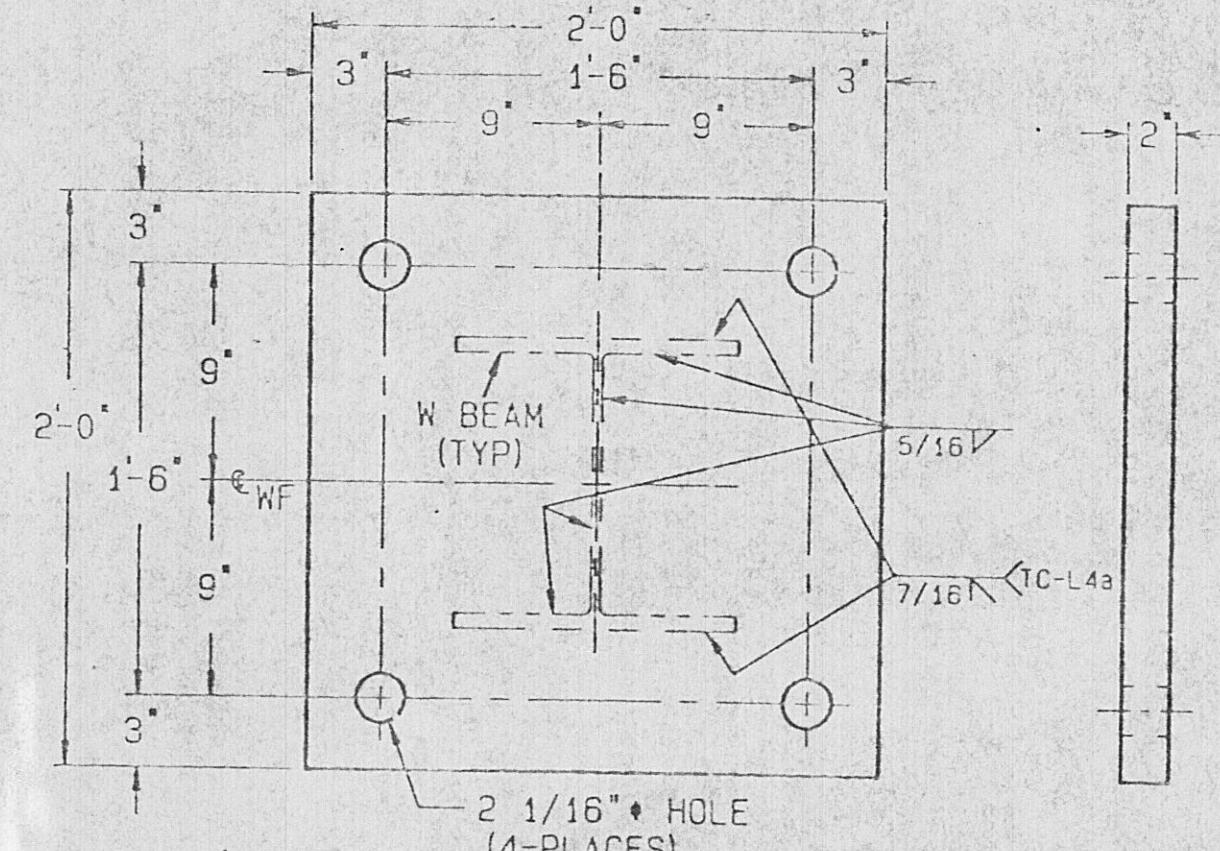
2 -REQ'D
SCALE: 3/4" = 1'-0"



DET. #14 TP (TOP PLATE)

1 REQ'D FOR EACH
ASSEMBLY #C11-M

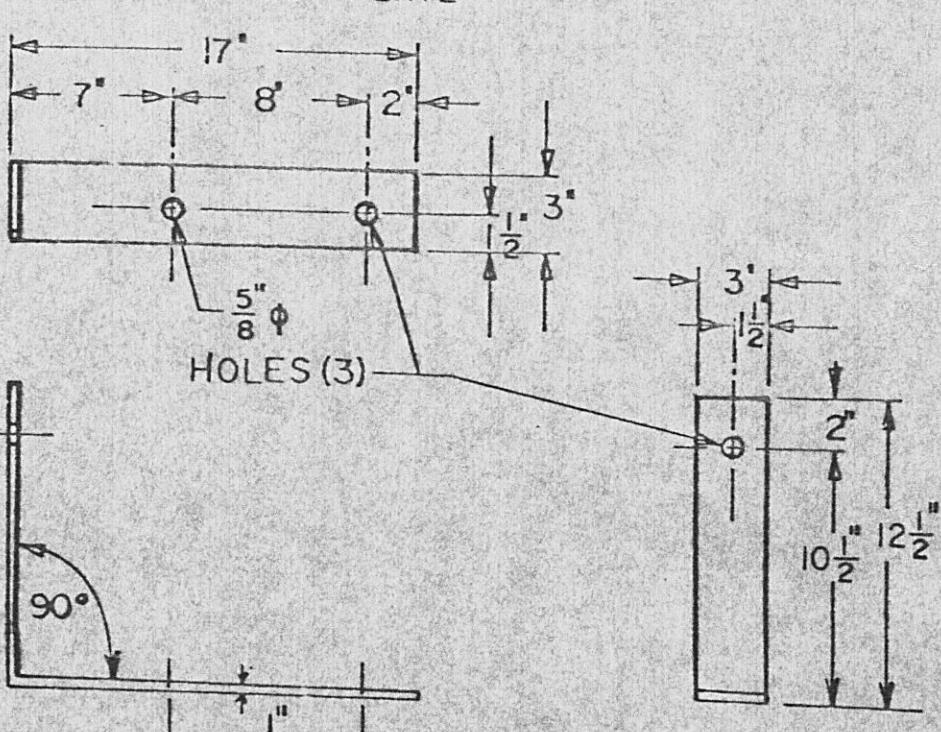
SCALE: 1/8" = 1"
MATL. 3/8 x 12 5/8 x 2'-8 3/8" LG. PLATE



DET. #15 BP (COLUMN BASE PLATE)

1 REQ'D FOR EACH
ASSEMBLY #C11-M

SCALE: 1/8" = 1"
MATL. 2 x 24 x 2'-0" LG. PLATE



DET. #40ML (MET. ANGLE BKT.)

4 -REQ'D FOR ONE
ASSEMBLY #C11-M

SCALE 1/8" = 1"
MATL. 1/4" x 3" x 29 1/2" LG. BAR (BENT)
(4 ONLY REQ'D.)

McWHORTER & FRANKLIN ENGINEERS
NASHVILLE, TENNESSEE

2117 FRANKLIN ROAD - 37204 TEL. (615)298-3338

HARRIMAN UTILITY BOARD
BLAIR ROAD SUBSTATION
STRUCTURAL STEEL DETAILS

SHEET
6
OF SHEETS

ASSEMBLY #C11-M
(METER COLUMN)

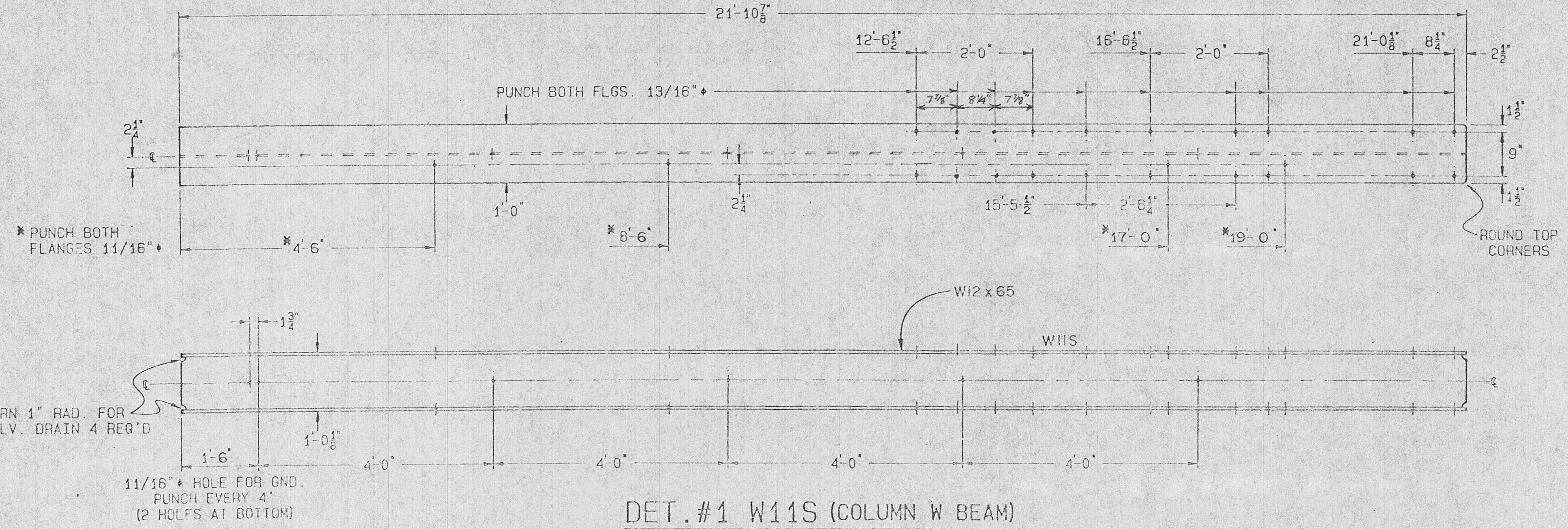
REVISIONS

DATE

DATE: 6-8-94

DRAWN: B.C.

SCALE: NOTED

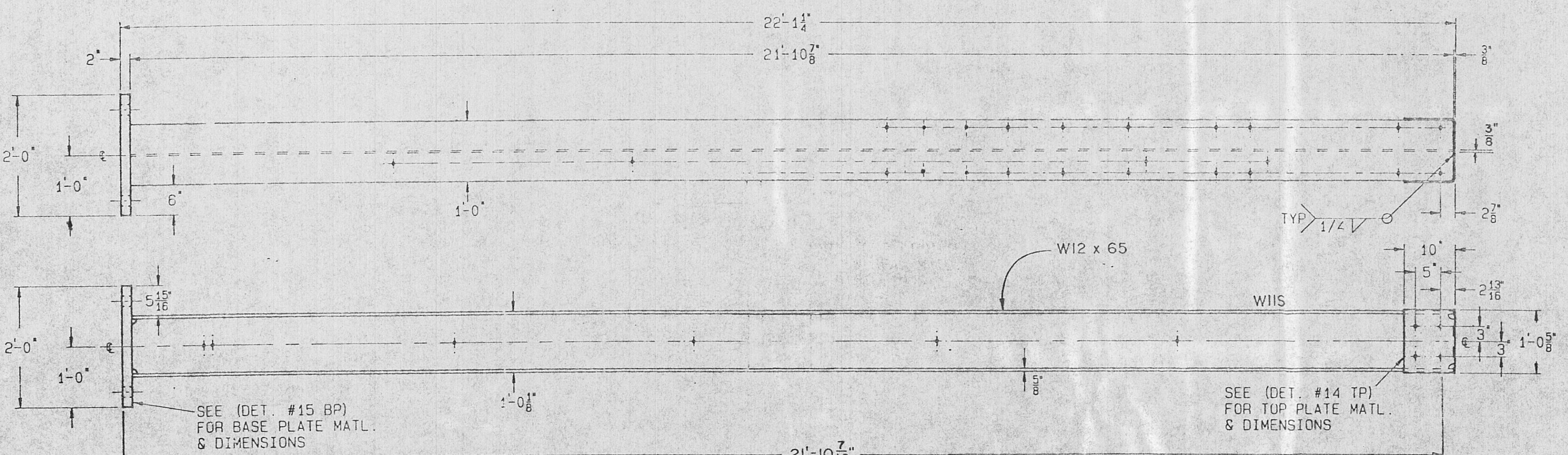


DET. #1 W11S (COLUMN W BEAM)

1 REQ'D FOR EACH
ASSEMBLY #C11-R-SS

SCALE: 3/4" = 1'-0"

W12 x 65 x 21-10 //8 LG.

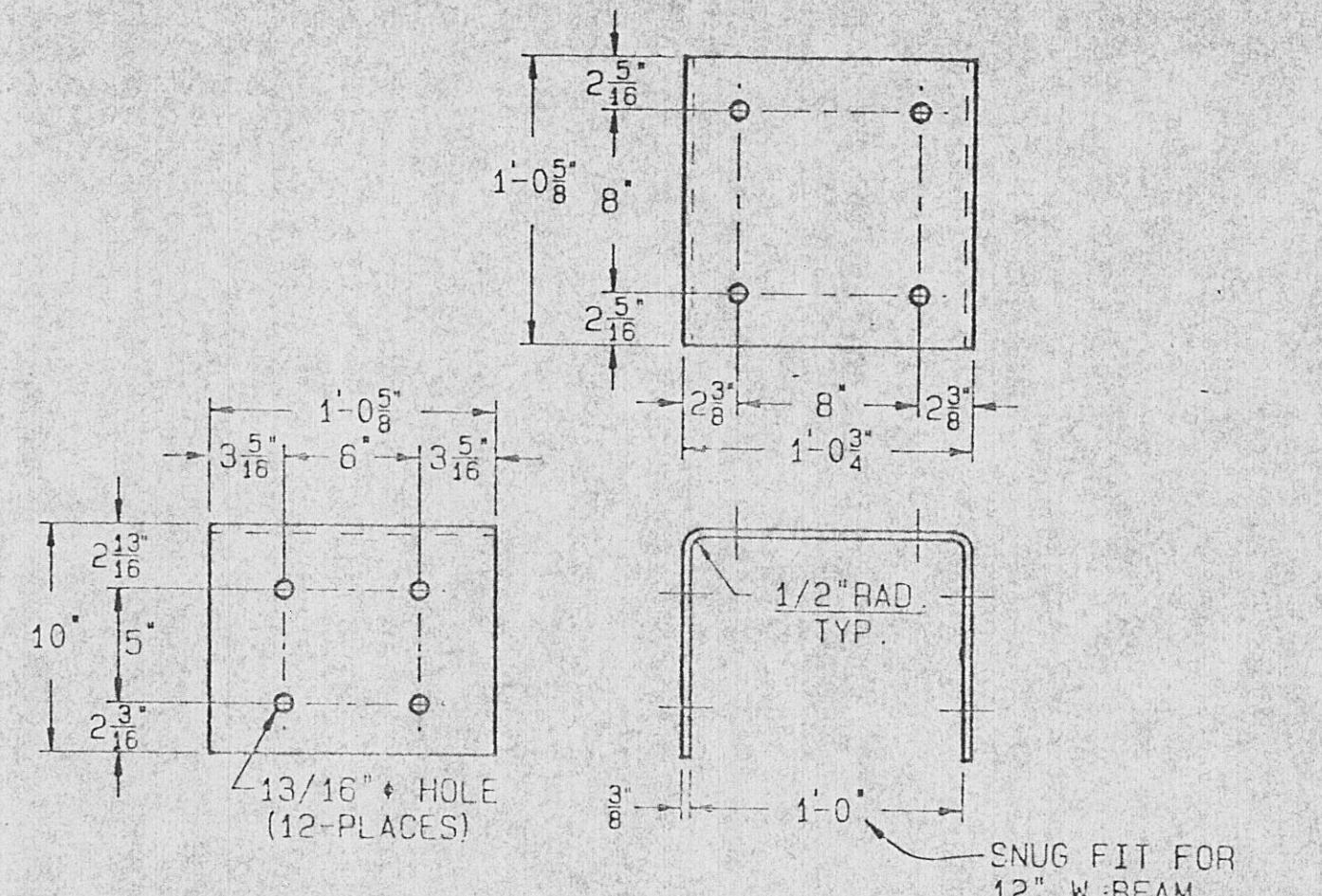


21-1016

ASSEMBLY #C11-R-SS (COLUMN)

2 -REQ'D

SCALE: 3/4" = 1'-0"

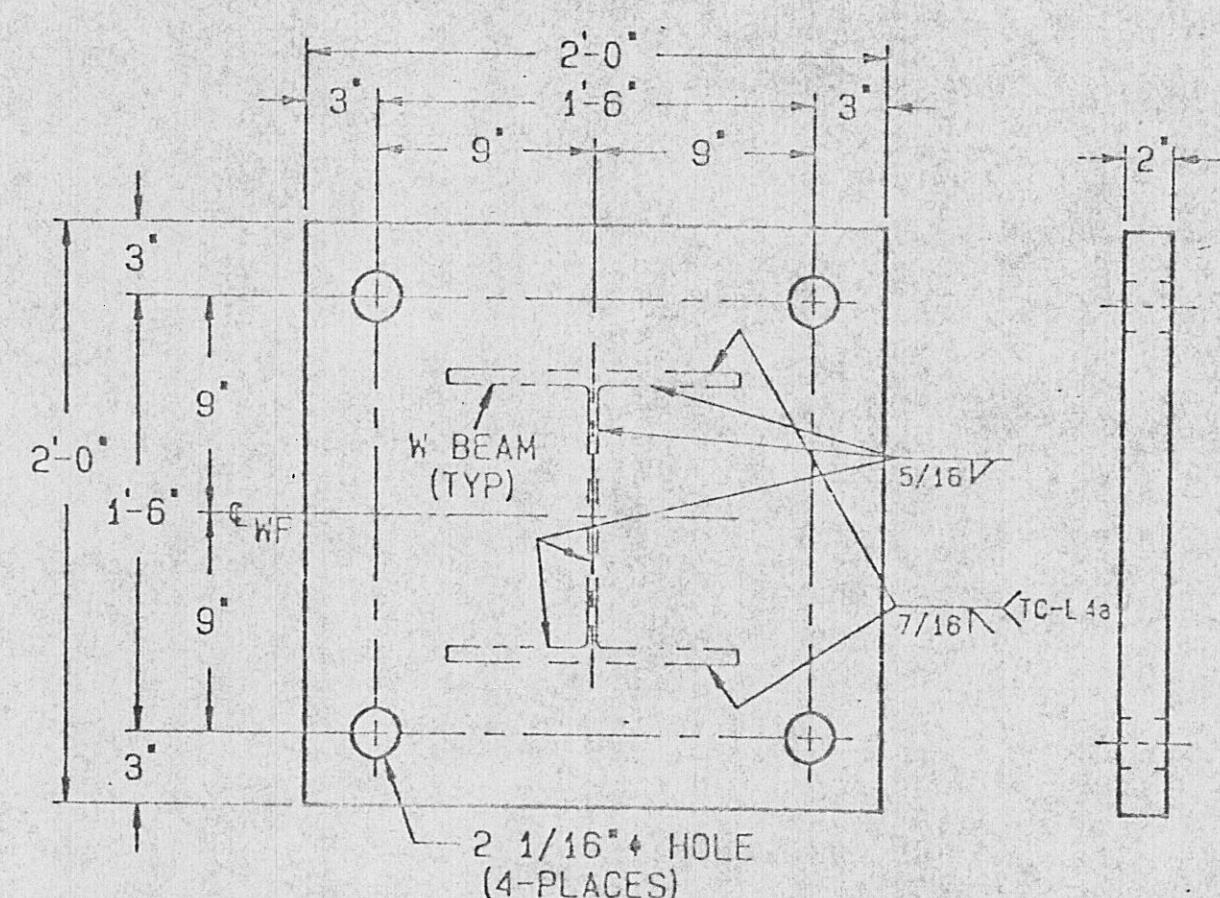


DET. #14 TP (TOP PLATE)

REQ'D FOR EACH
ASSEMBLY #C11-R-SS

CALC: $1/8" = 1"$

MATL. 3/8 x 12 5/8 x 2'-8 3/8" LG. PLATE

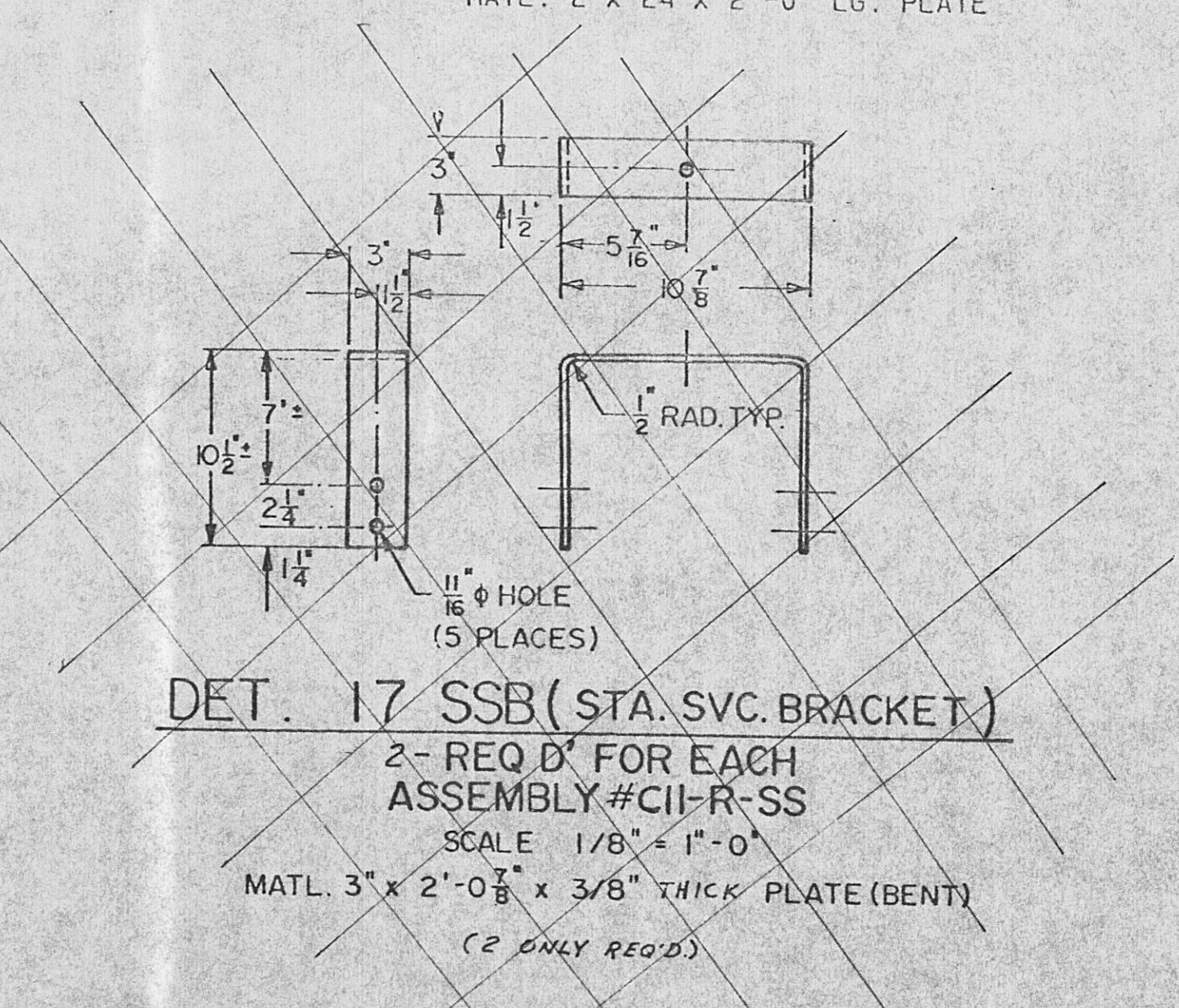


DET. #15 BP (COLUMN BASE PLATE)

1 REQ'D FOR EACH
SUBASSEMBLY #C11-R-SS

SCALE: 1/8" = 1"

MATL. 2 x 24 x 2'-0" LG. PLATE



~~DET. 17 SSB (STA. SVC. BRACKET)~~

~~2- REQ D' FOR EACH ASSEMBLY #CII-R-SS~~

SCALE 1/8" = 1"-0"

~~3" x 2'-0" x 3/8" THICK PLATE (RENT)~~

5 A 2 08 X 3/8 THICK PLATE(BEN)N

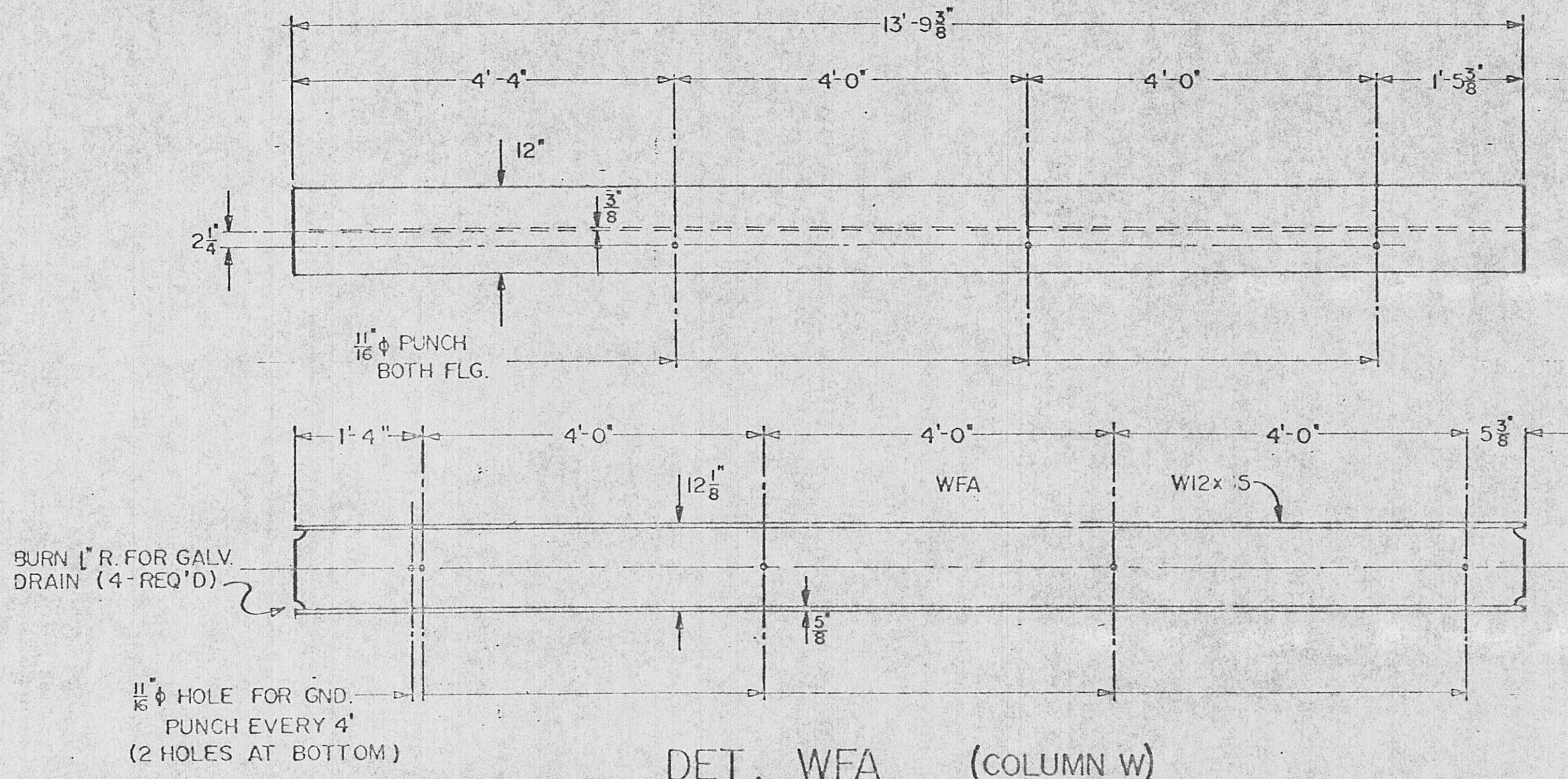
(2 ONLY REQ'D.)

~~100~~ ~~100~~ ~~100~~ ~~100~~

SSEMBLY #C11-R-SS
(REG.- COL.)

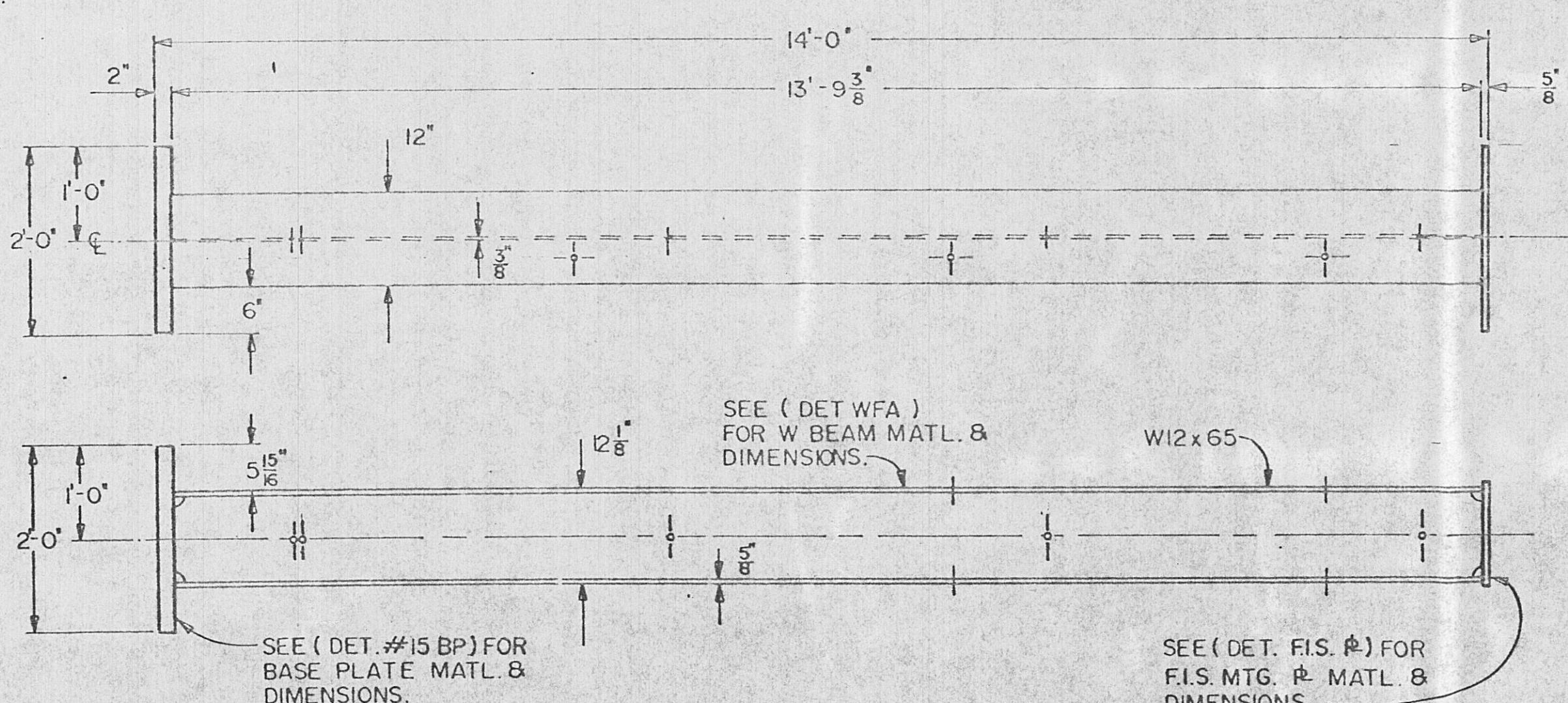
HARRIMAN UTILITY BOARD
BLAIR ROAD SUBSTATION
STRUCTURAL STEEL DETAILS

SHEET
7
OF SHEETS



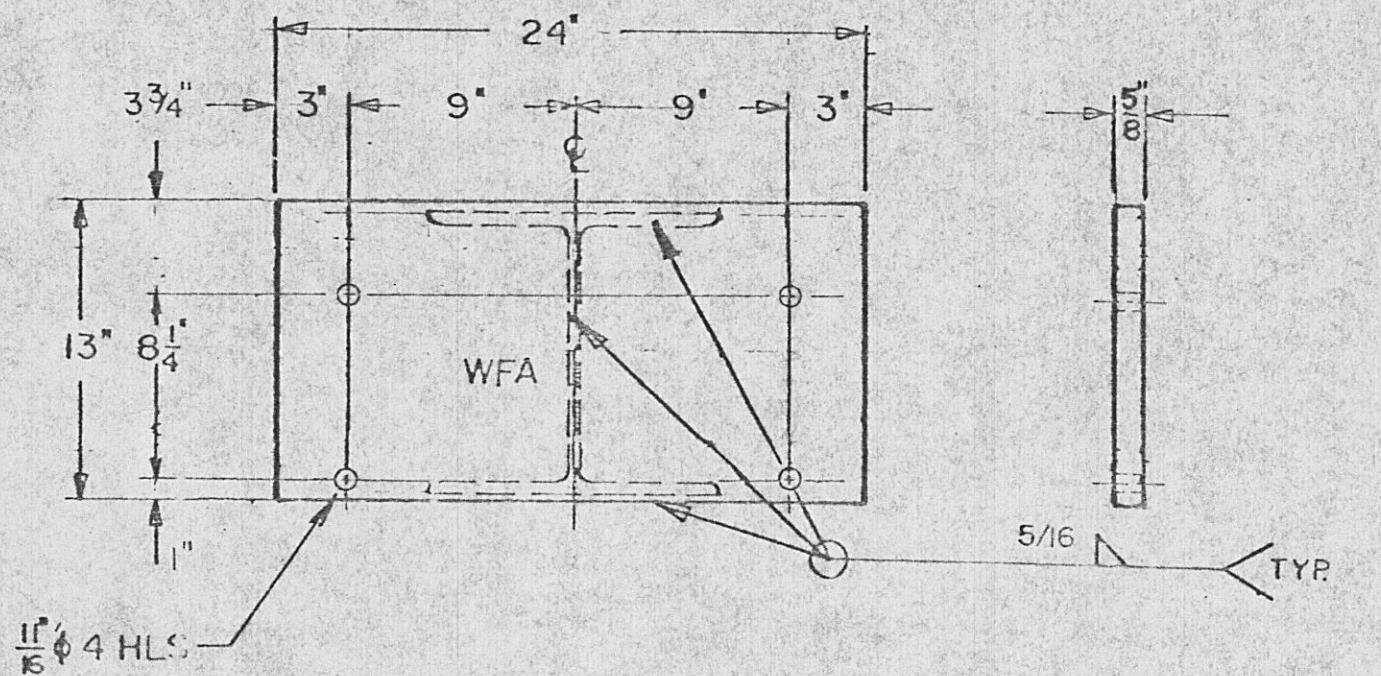
DET. WFA (COLUMN W)

I-REQ'D FOR EACH
ASSEMBLY # CFA
SCALE 3/4" = 1'-0"
MATL. W 12 x 65 x 13'-9-3/8" LONG



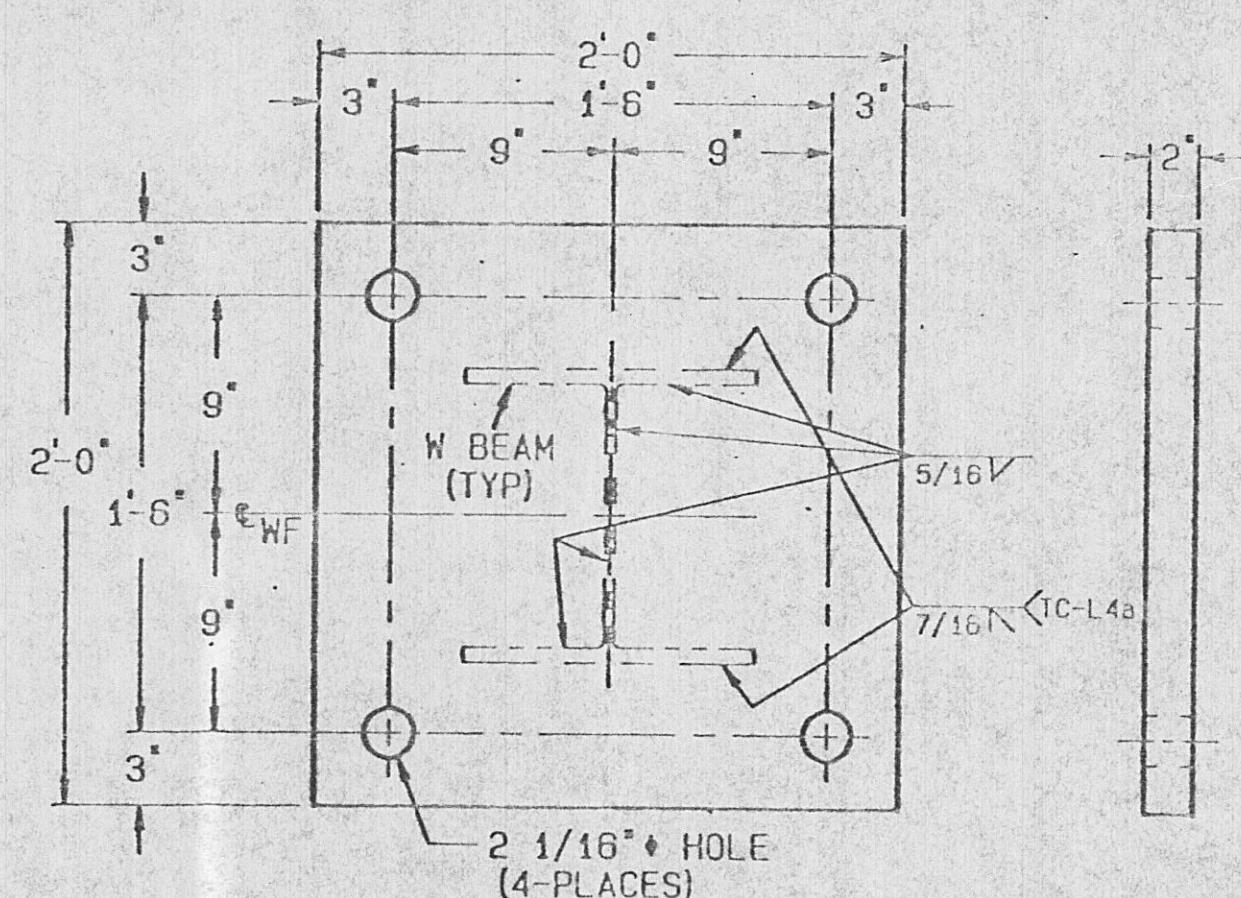
ASSEMBLY # CFA

1 - REQ'D
SCALE: 3/4" = 1'-0"



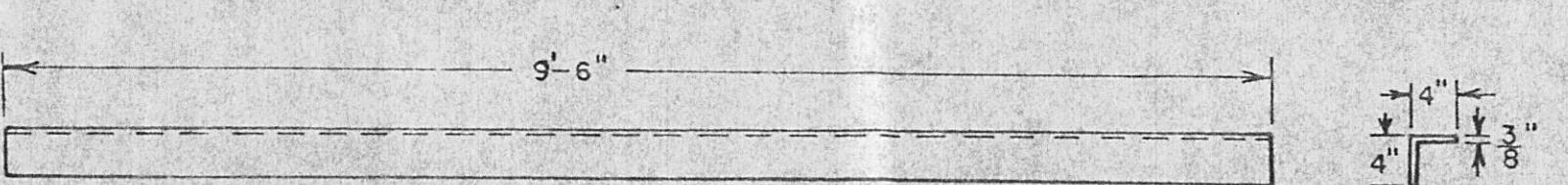
DET.# F.I.S. P (FAULT INIT. SW. MTG. PLATE)

-REQ D FOR EACH
ASSEMBLY# CFA
SCALE 1/8" = 1"
ATL. 5/8" x 13" x 24" LG. PLATE



DET. #15 BP (COLUMN BASE PLATE)

1-REQ'D FOR EACH
ASSEMBLY #CFA
SCALE: 1/8"=1'
2 x 24 x 2'-0" LG PLATE



DET. # LR (ANGLE)

**2 - REQ'D FOR EACH
ASSEMBLY CFA**
SCALE: 3/4" = 1'-0"
MATL. 3/8" x 4" x 4" x 9'-6" LONG
(2 TOTAL REQUIRED)

DATE	REVISIONS

MCHORSTER & FRANKLIN ENGINEERS

NASHVILLE, TENNESSEE

2117 FRANKLIN ROAD - 372C4 TEL. (615)298-3338

DATE:
DRAWN
SCALE:

HARRIMAN UTILITY BOARD
BLAIR ROAD SUBSTATION
STRUCTURAL STEEL DETAILS

SHEET
8
OF SHEETS