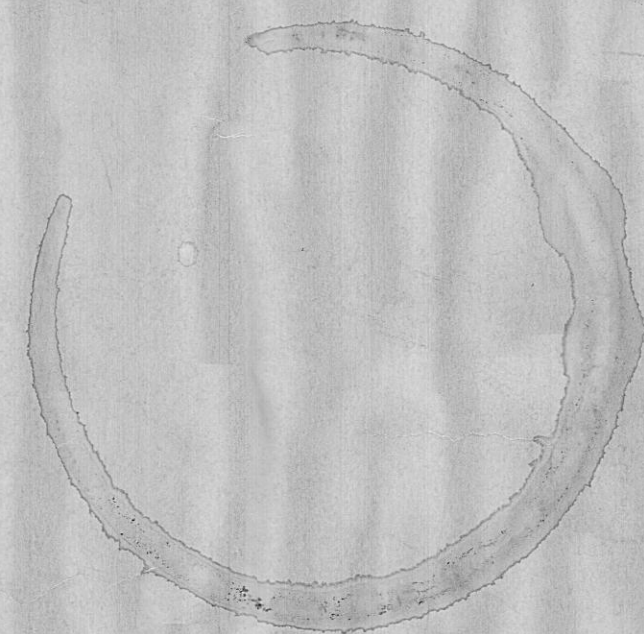


# BLAIR ROAD SUBSTATION

## HARRIMAN UTILITIES BOARD



220 18 64

Delmar

346-6627

525

374 1313  
Delmar  
Chambers

McWHORTER & FRANKLIN ENGINEERS  
NASHVILLE, TENNESSEE

2117 FRANKLIN ROAD 37204

TELEPHONE (615) 298-3338

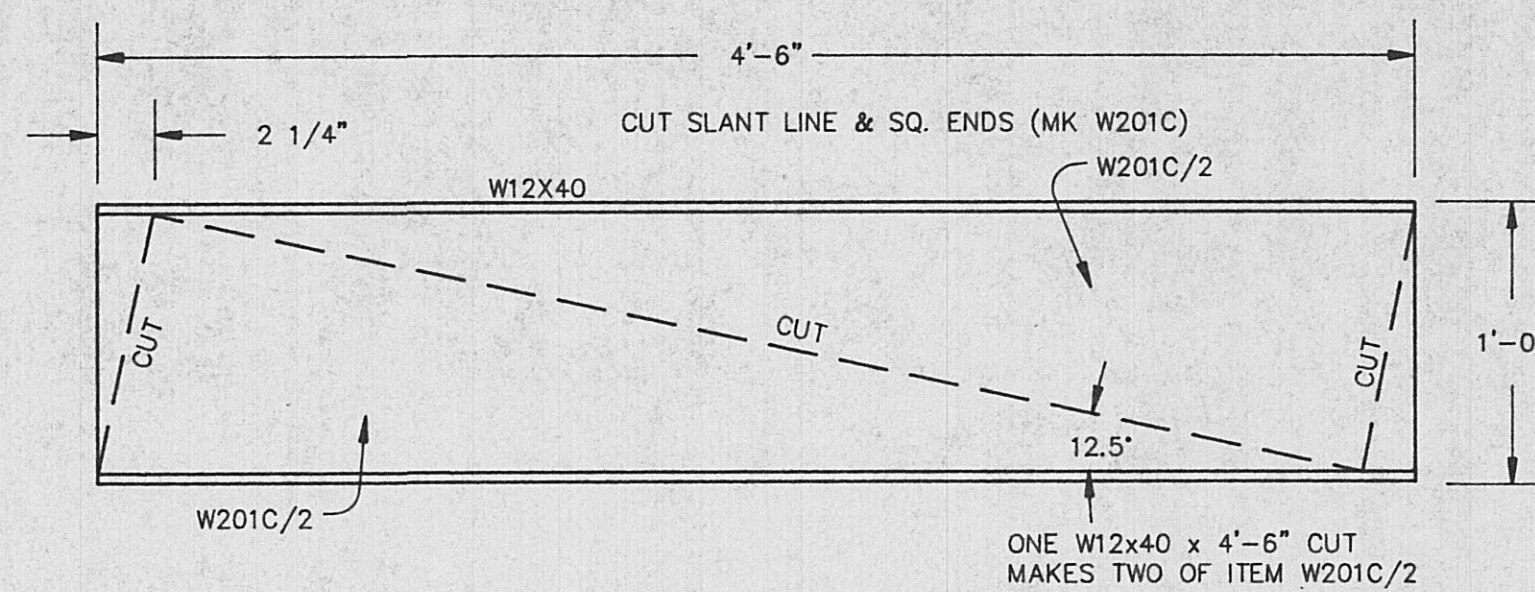
BLAIR ROAD SUBSTATION

HARRIMAN UTILITIES BOARD

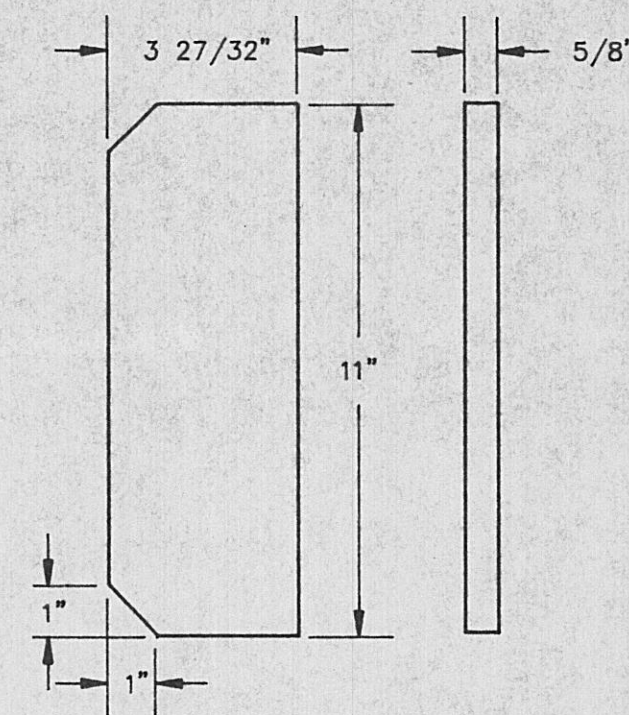
STEEL DRAWINGS

McWHORTER & FRANKLIN ENGINEERS

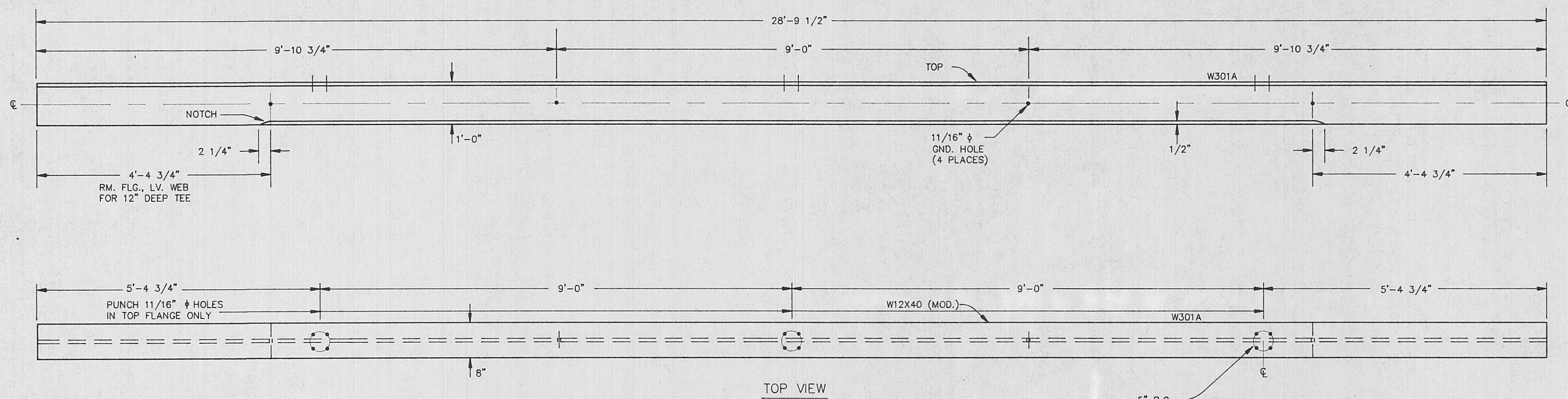




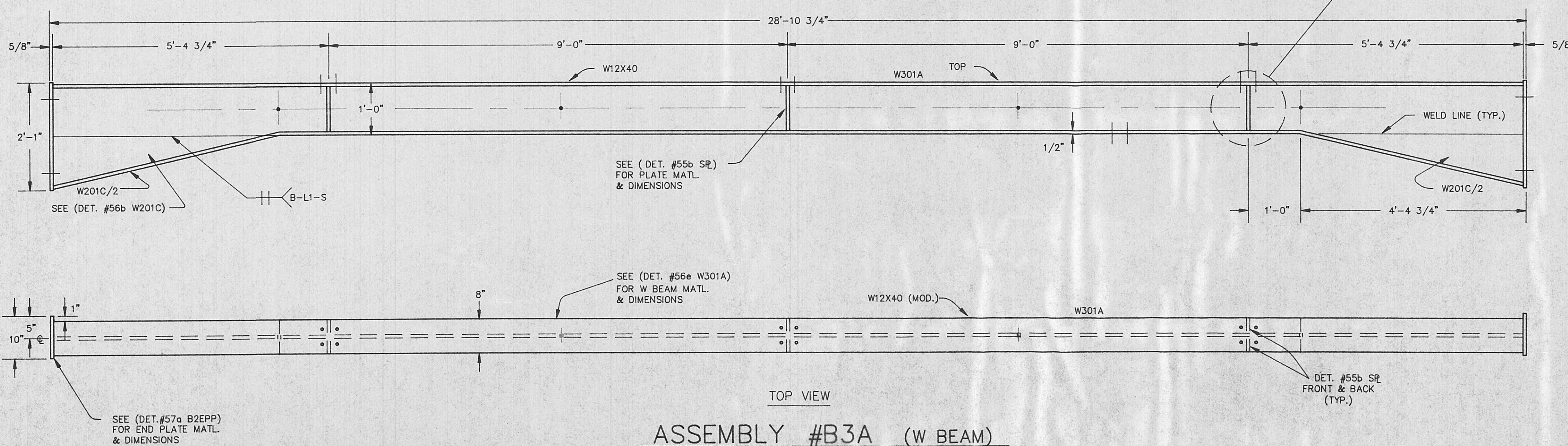
**DET. #56b W201C (W BEAM)**  
 1-REQ'D FOR EACH  
 ASSEMBLY B3A  
 SCALE: 1/8"=1"  
 MATL: W12 x 40 x 4'-6" LONG (CUT)  
 (MAKES 2 EA. W201C/2)



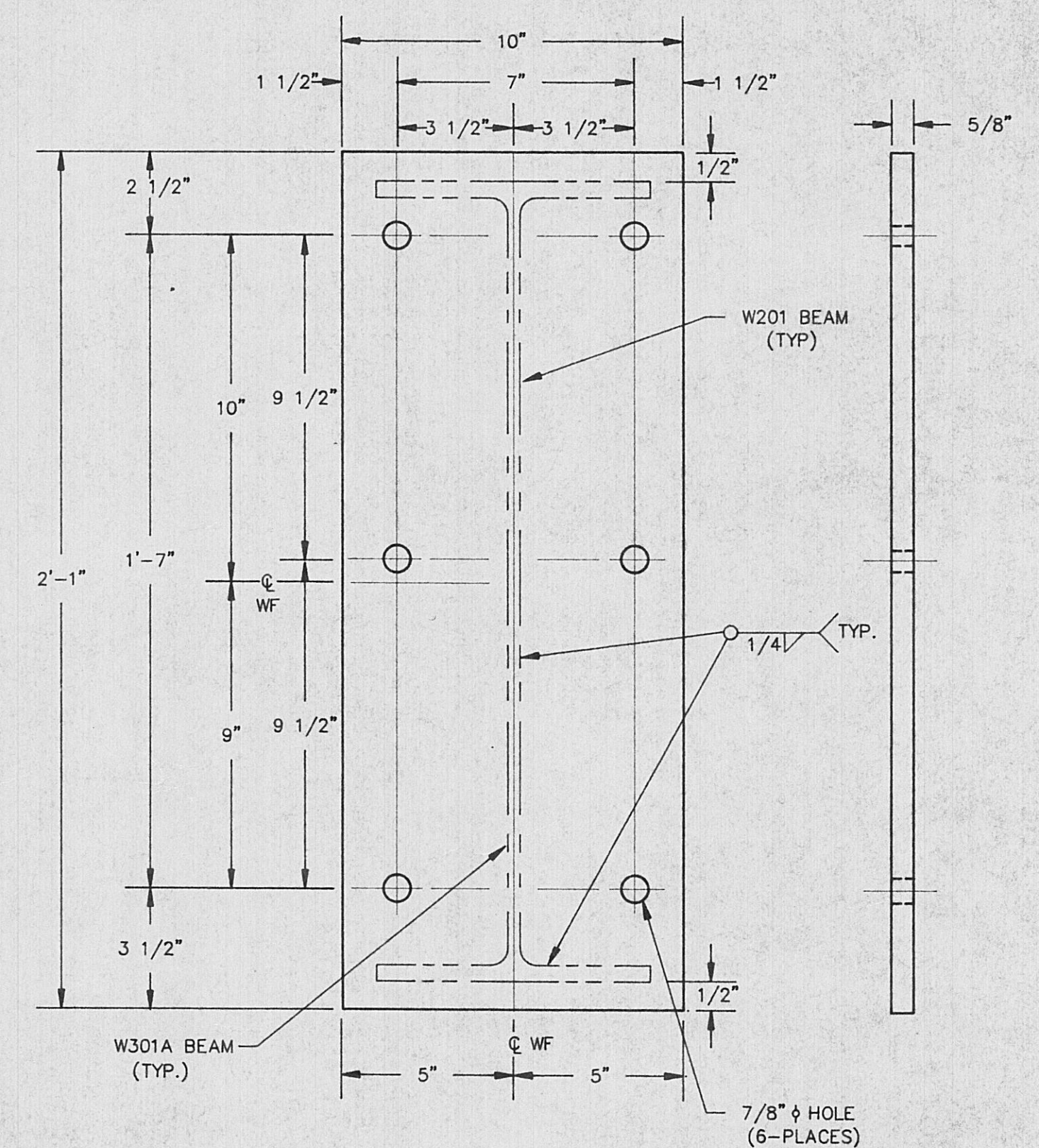
**DET. #55b SR (STIFFENER PLATE)**  
 6-REQ'D FOR EACH  
 ASSEMBLY B3A  
 SCALE: 1/4"=1"  
 MATL: 5/8" x 3 27/32" x 11" LONG PLATE



**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



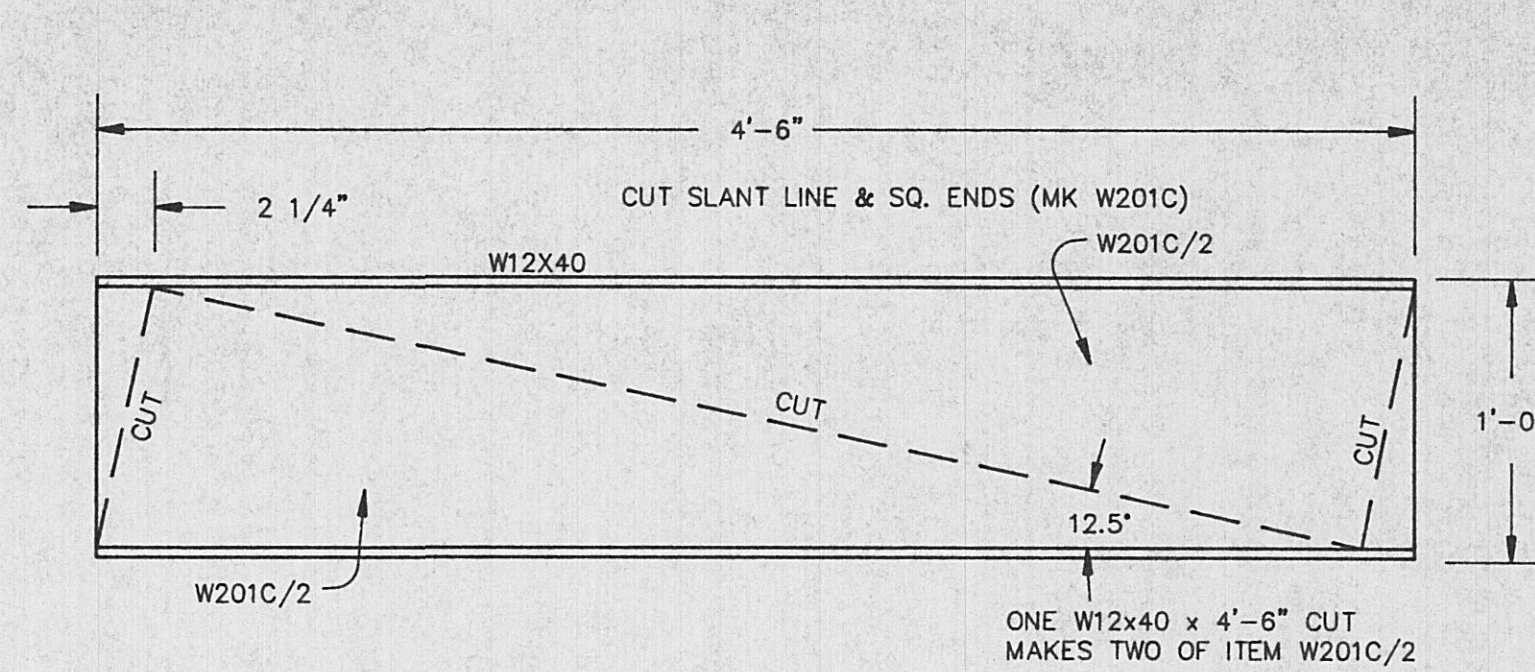
**ASSEMBLY #B3A (W BEAM)**  
 4-REQ'D  
 SCALE: 3/4"=1'-0"



**DET. #57a B2EPP (END PLATE)**  
 2-REQ'D FOR EACH  
 ASSEMBLY B3A  
 SCALE: 1/4"=1"  
 MATL: 5/8" x 10" x 2'-1" LONG PLATE

ASSEMBLY #B3A  
 H.S. TRANS. BUS LOWER BEAM



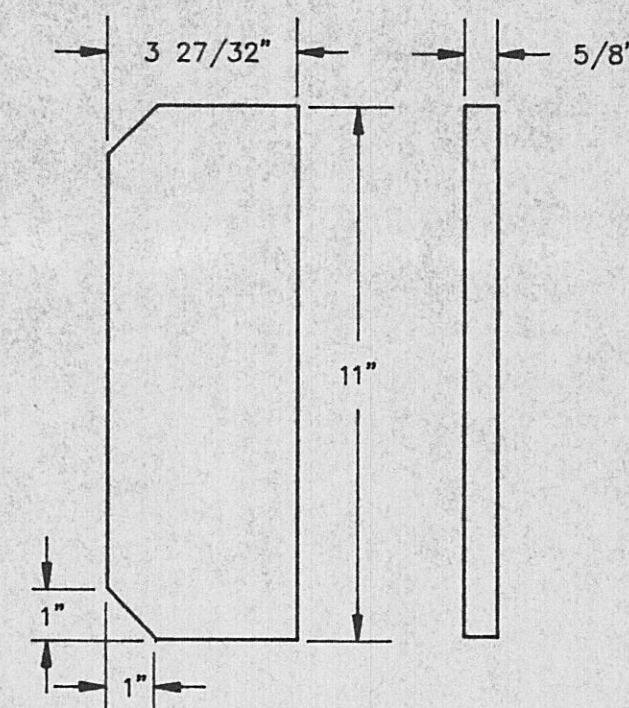


DET. #56b W201C (W BEAM)

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)

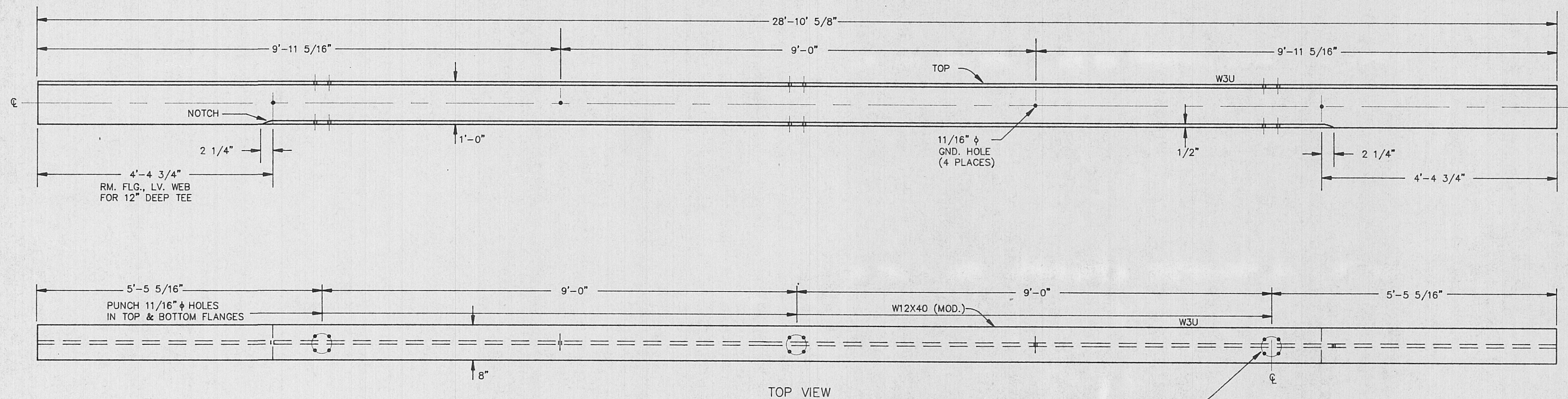


DET. #55b SR (STIFFENER PLATE)

6-REQ'D FOR EACH  
ASSEMBLY B3U

SCALE: 1/4"=1"

MATL: 5/8" x 3 27/32" x 11" LONG PLATE

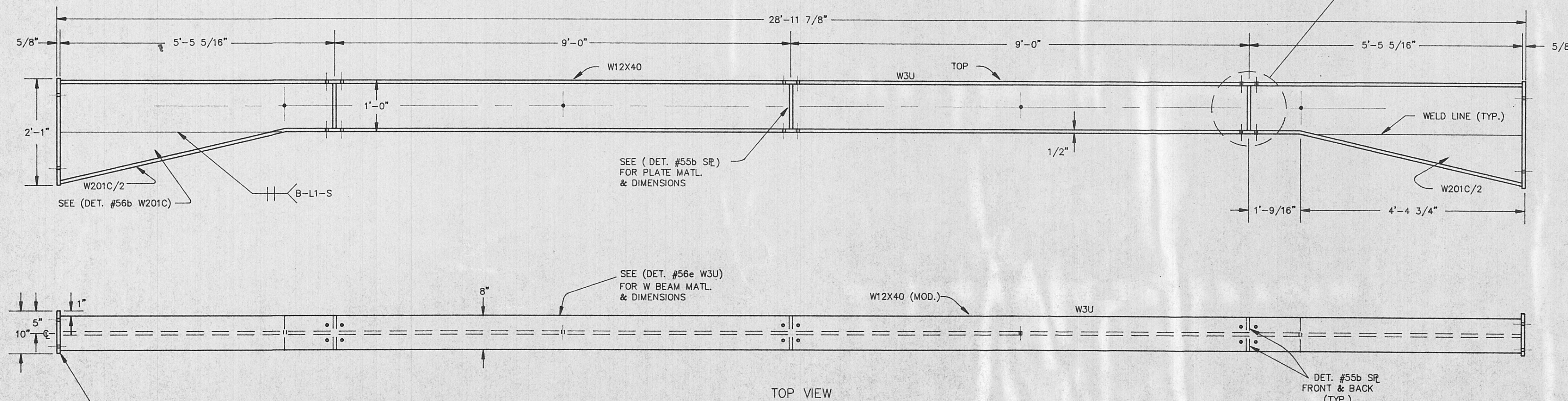


DET. #56e W3U (W BEAM)

1-REQ'D FOR EACH  
ASSEMBLY B3U

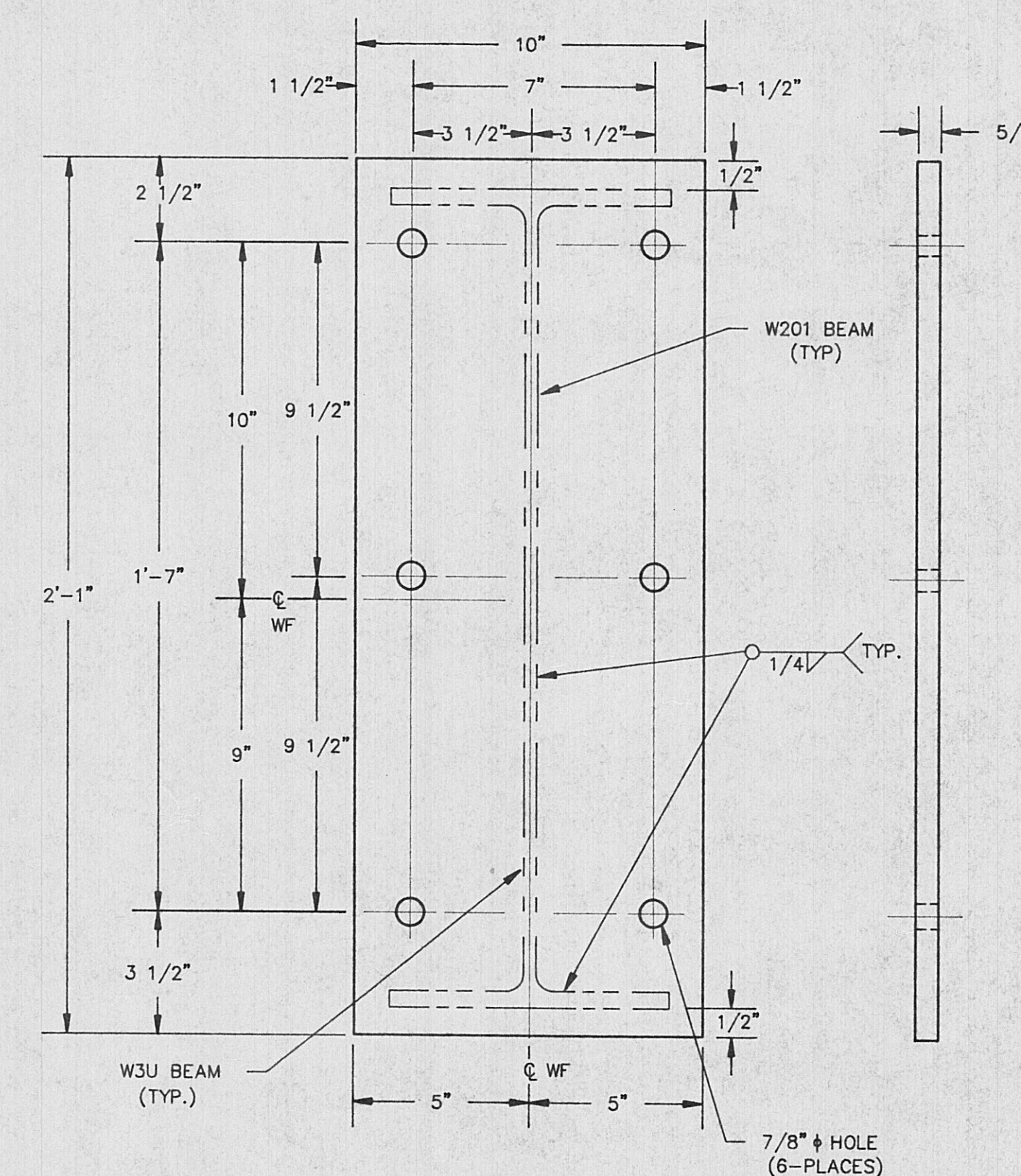
SCALE: 3/4"=1'-0"

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

ASSEMBLY #B3U  
H. S. BUS BEAM

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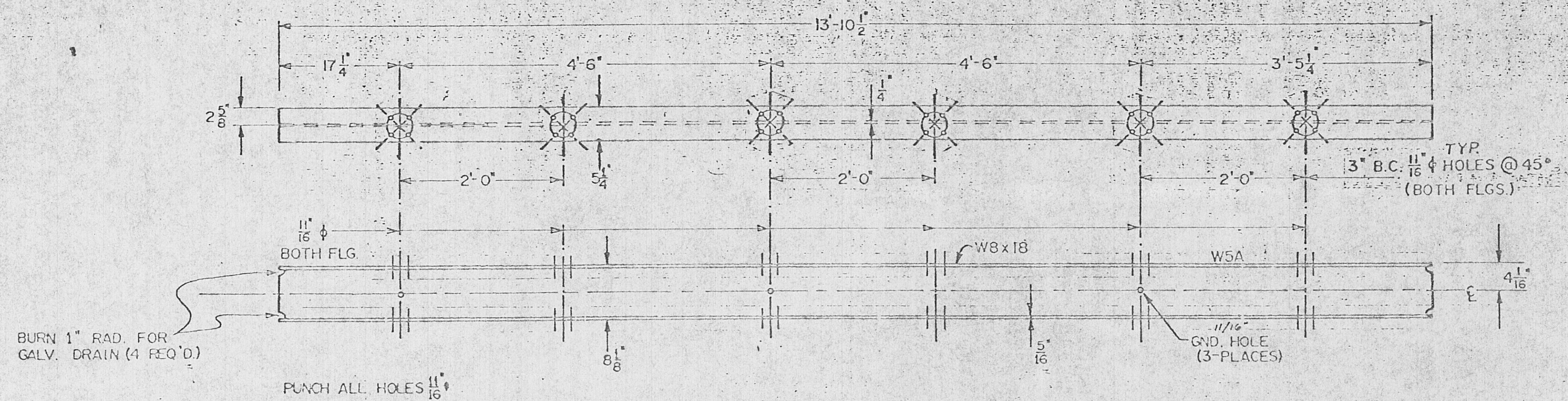
2117 FRANKLIN ROAD - 37204 TEL. (615)298-3338

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

HARRIMAN UTILITY BOARD  
BLAIR ROAD SUBSTATION  
STRUCTURAL STEEL DETAILS

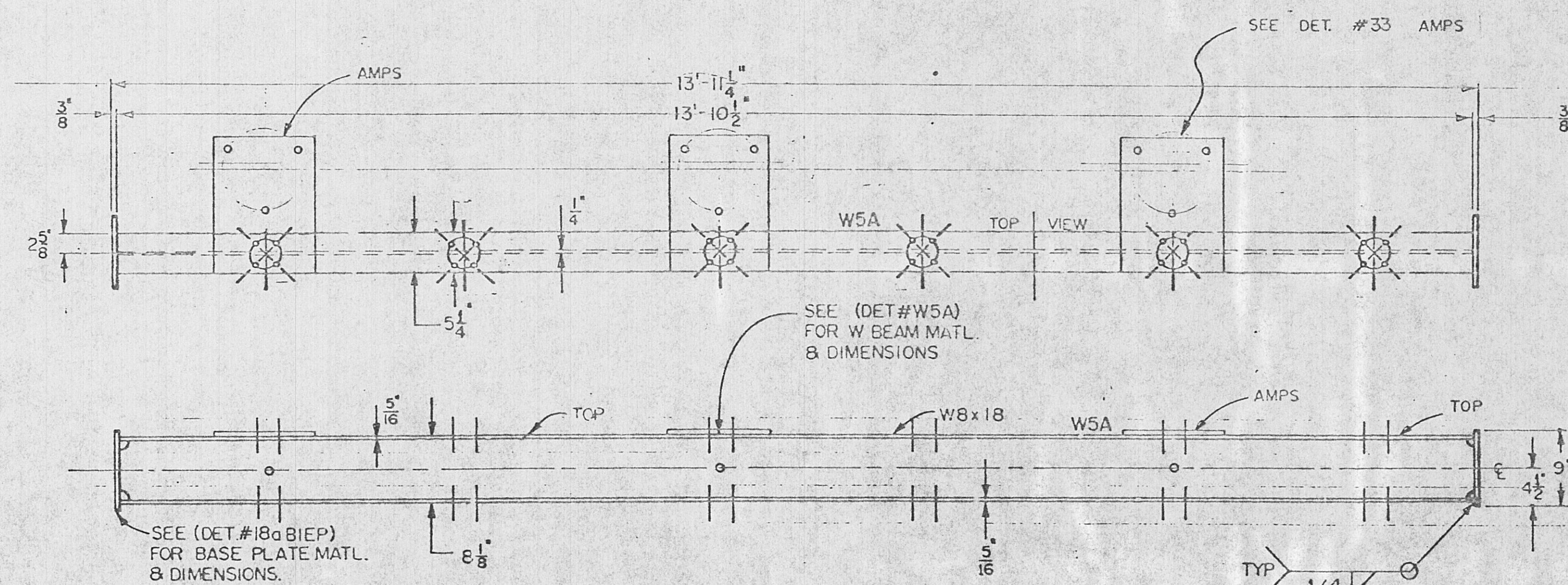
SHEET  
**10**  
OF SHEETS





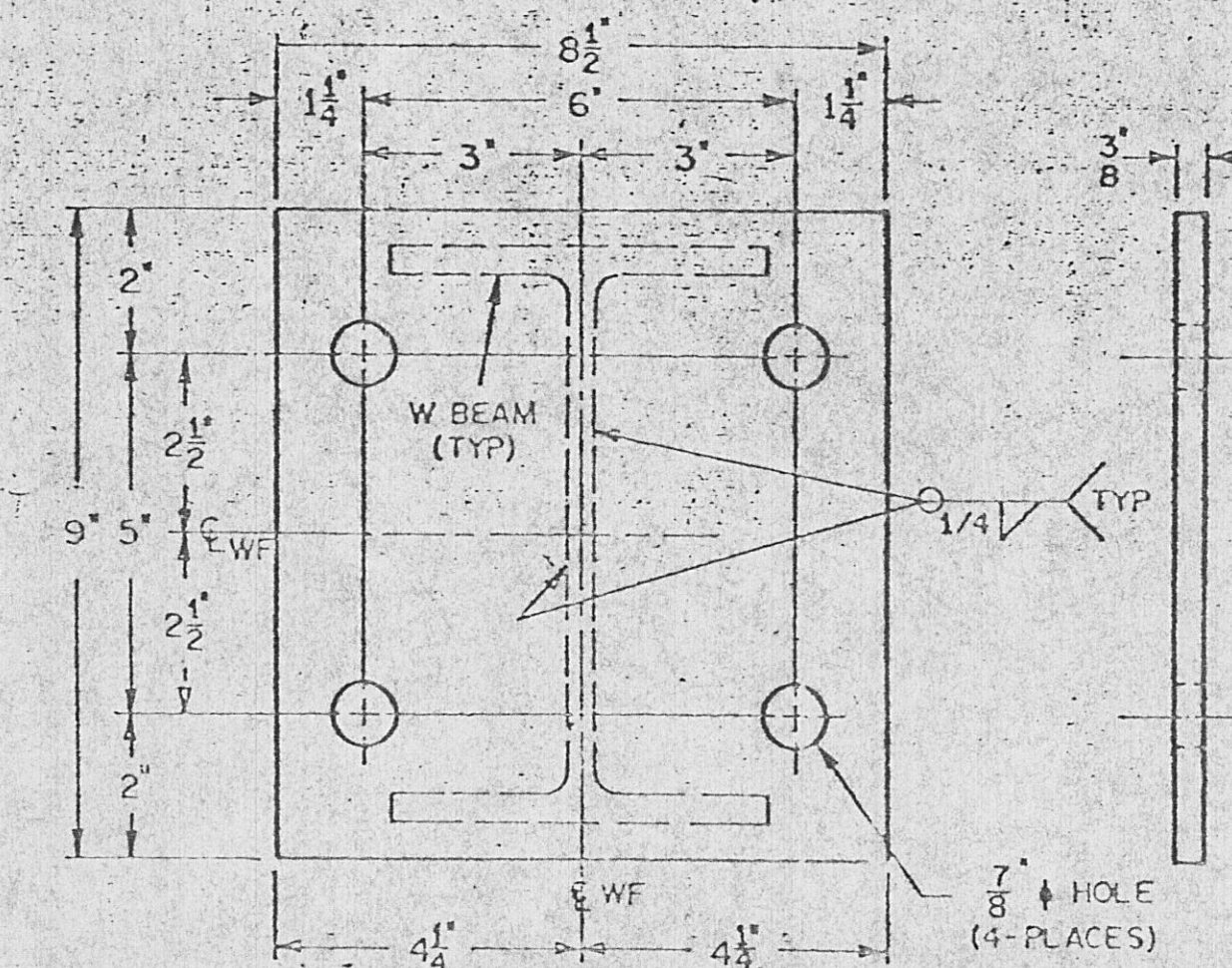
DET. # W5A ( W BEAM )

1 REQ'D FOR EACH  
ASSEMBLY B5A  
SCALE: 1" = 1'-0"  
MATL. W8x18x13'-10 1/2" LONG



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

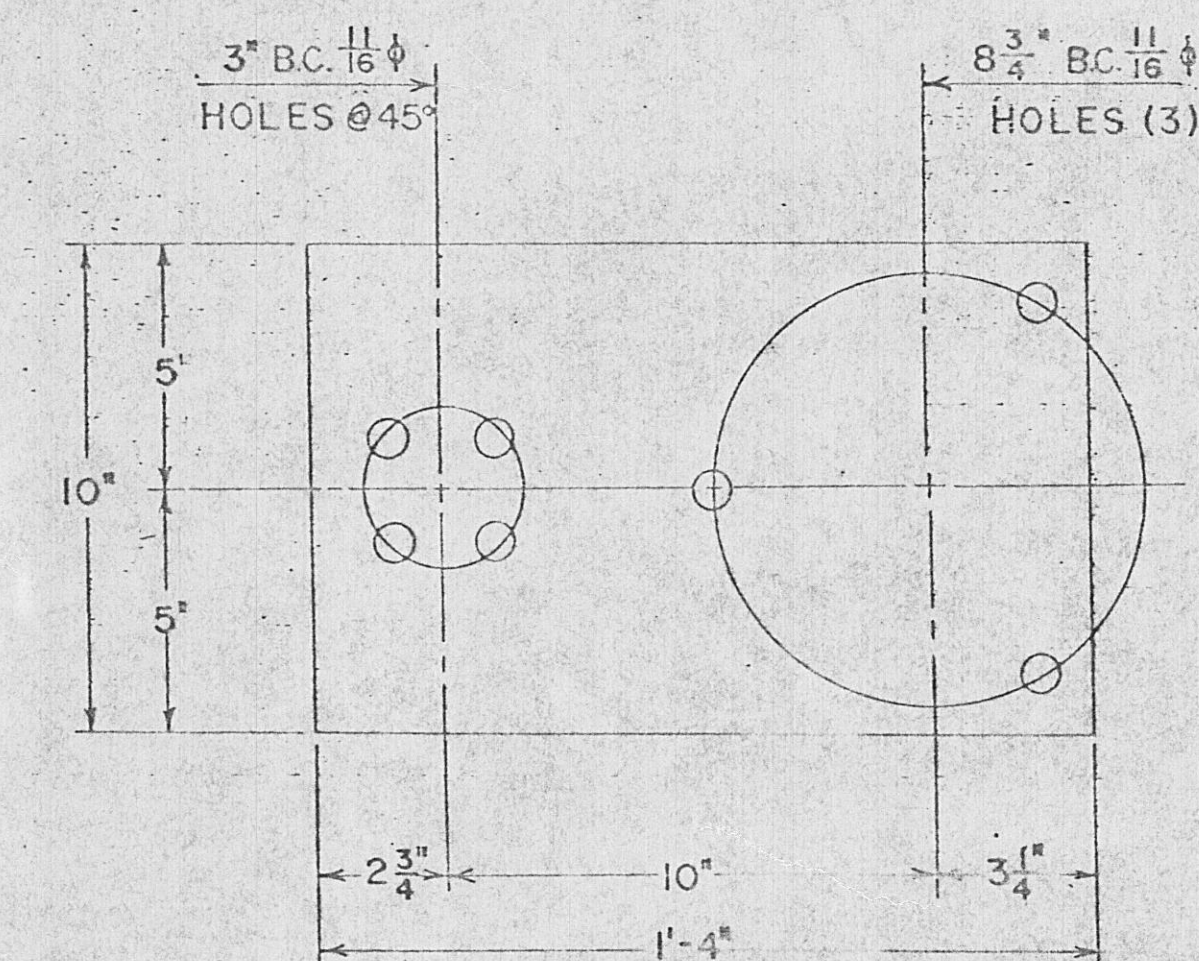
2-REQ'D  
SCALE: 1" = 1'-0"



DET. #18a BIEP (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

REVISIONS

DATE

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NASHVILLE, TENNESSEE

TEL. (615)298-3338

2117 FRANKLIN ROAD - 37204

DATE: 6-8-94

DRAWN: B.C.

SCALE: NOTED

HARRIMAN UTILITY BOARD

BLAIR ROAD SUBSTATION

STRUCTURAL STEEL DETAILS

SHEET

11

OF SHEETS

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



ASSEMBLY #B7  
(LONG REG. BEAM)

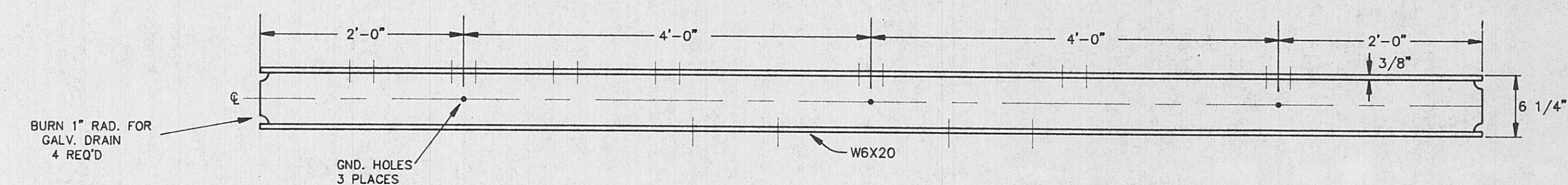


SHEET  
**13**  
OF SHEETS

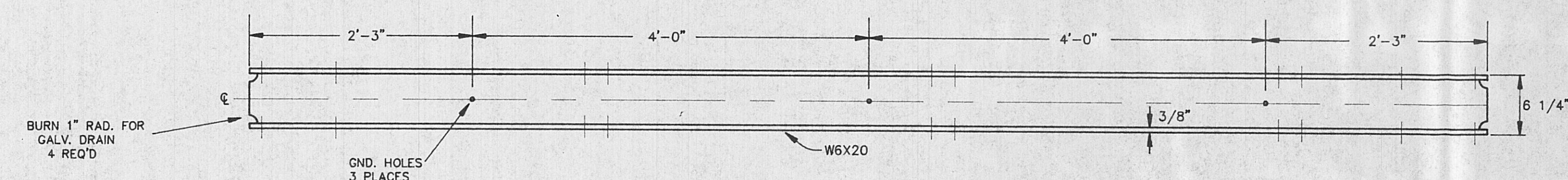








SCALE: 1" = 1'-0"  
MATL.: W6 X 20 X 12'-0" LONG



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

[illegible]

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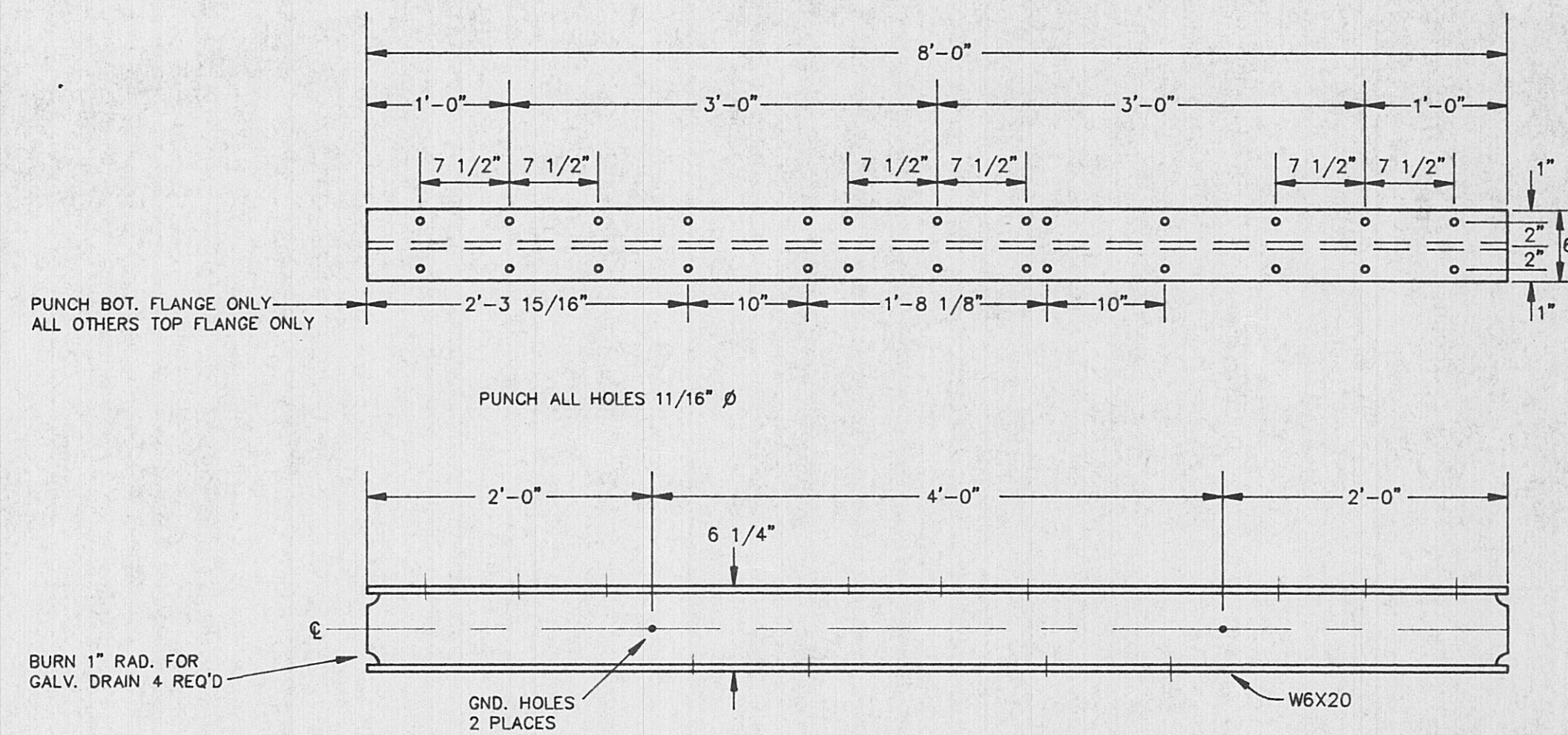
|               |
|---------------|
| DATE: 6-14-94 |
| DRAWN: B.C.   |
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|               |
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HARRIMAN UTILITY BOARD  
BLAIR ROAD SUBSTATION  
STRUCTURAL STEEL DETAILS

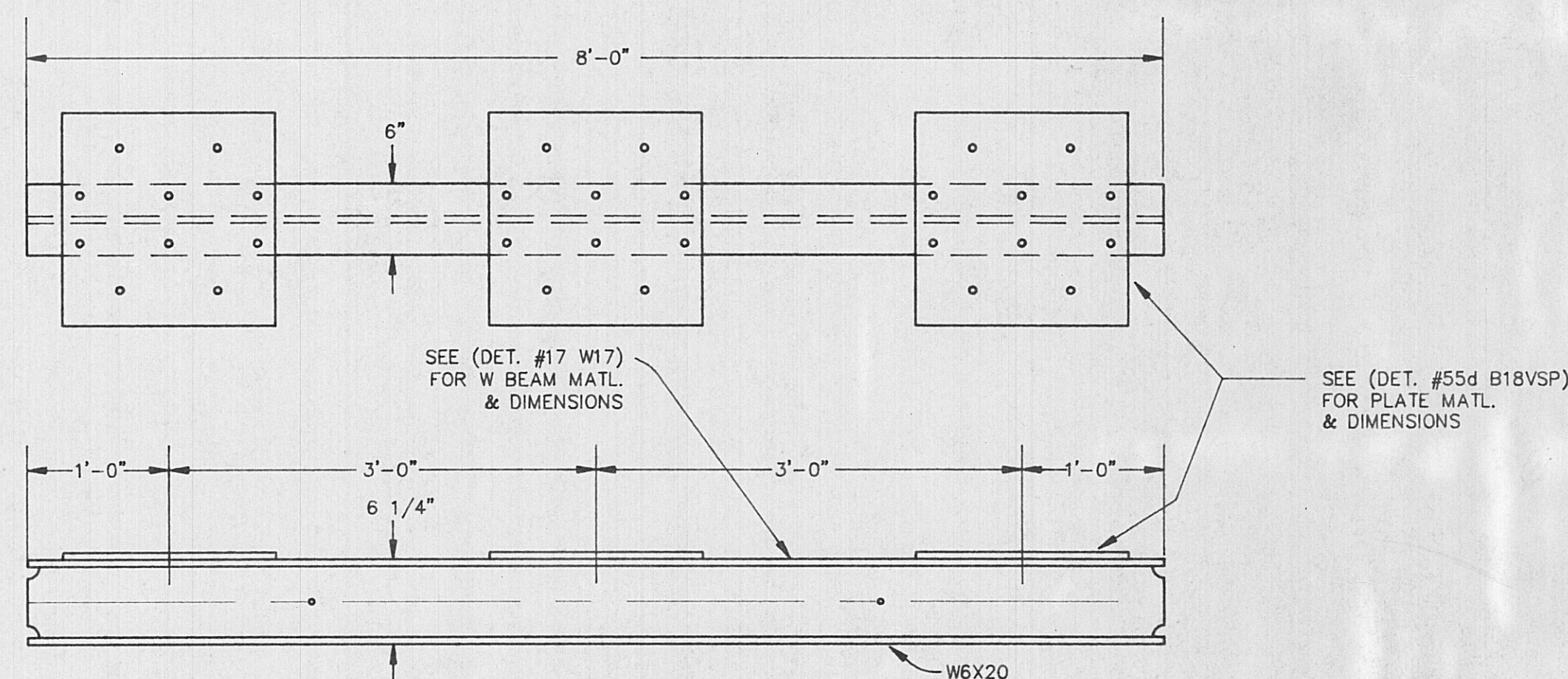
SHEET  
**14**  
OF SHEETS

ASSEMBLY #B16 & #B18  
(G.B. BUS BEAM)  
(BUS BEAM)

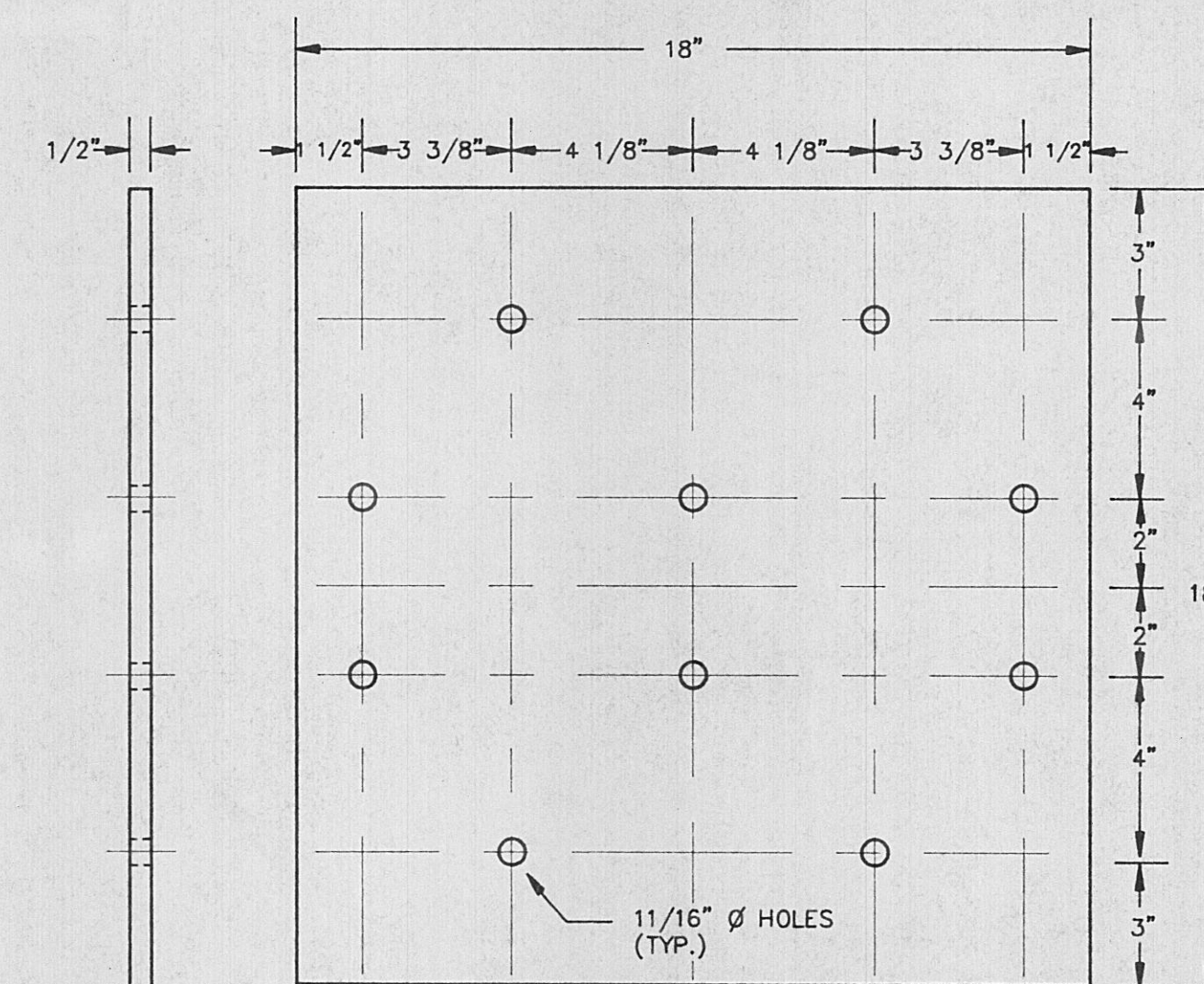




DET. #17 W17 (W BEAM)  
1-REQ'D FOR EACH  
ASSEMBLY #B17  
SCALE: 1" = 1'-0"  
MATL.: W6 X 20 X 8'-0" LONG

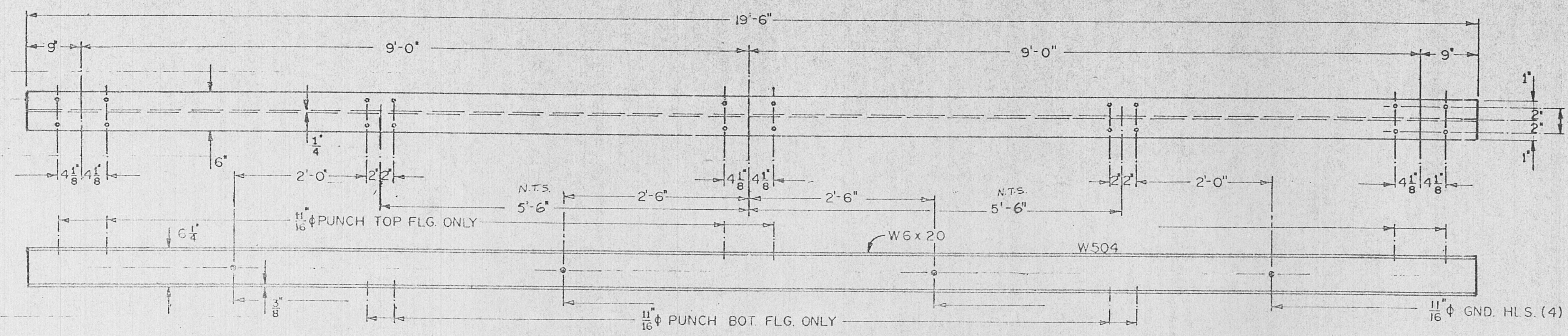


ASSEMBLY #B17 (V-SW BEAM)  
2-REQ'D  
SCALE: 1" = 1'-0"



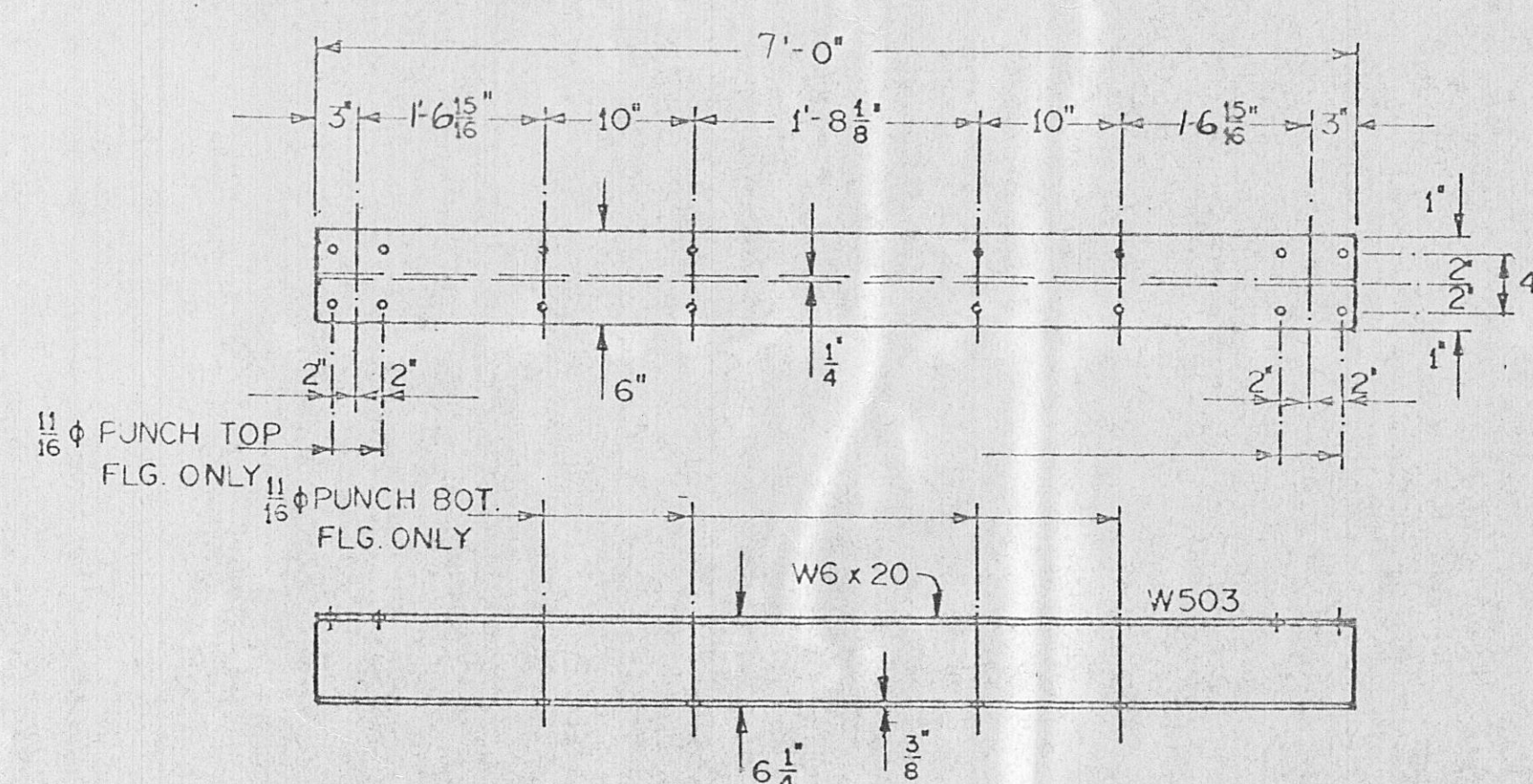
DET. #55d B18VSP (V-SW PLATE)  
3-REQ'D FOR EACH  
ASSEMBLY B17  
SCALE: 1/4" = 1"  
MATL: 1/2" x 18" x 18"





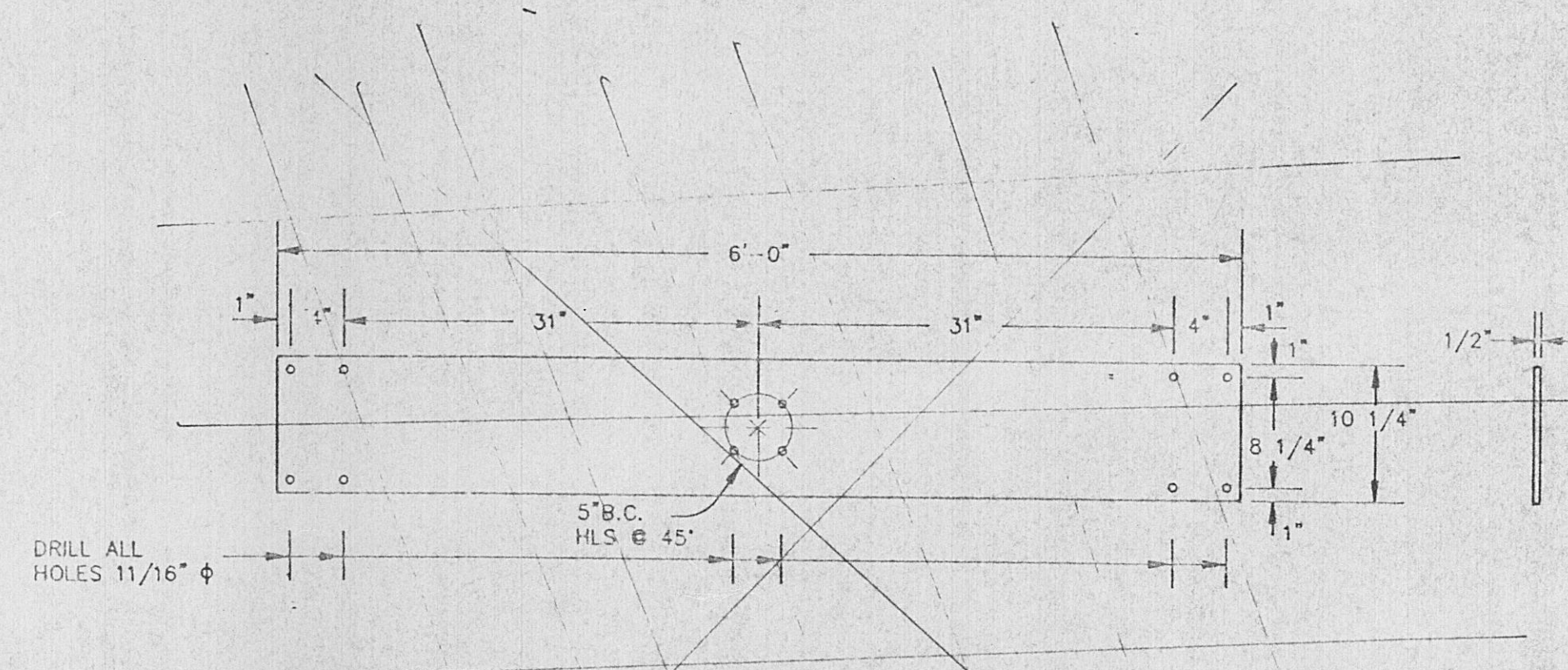
ASSEMBLY #B504 (H.S. SW. LONG BEAM)

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

REVISIONS

DATE

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NASHVILLE, TENNESSEE

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DATE: 6-8-94

DRAWN: B.C.

SCALE: NOTED

HARRIMAN UTILITY BOARD

BLAIR ROAD SUBSTATION

STRUCTURAL STEEL DETAILS

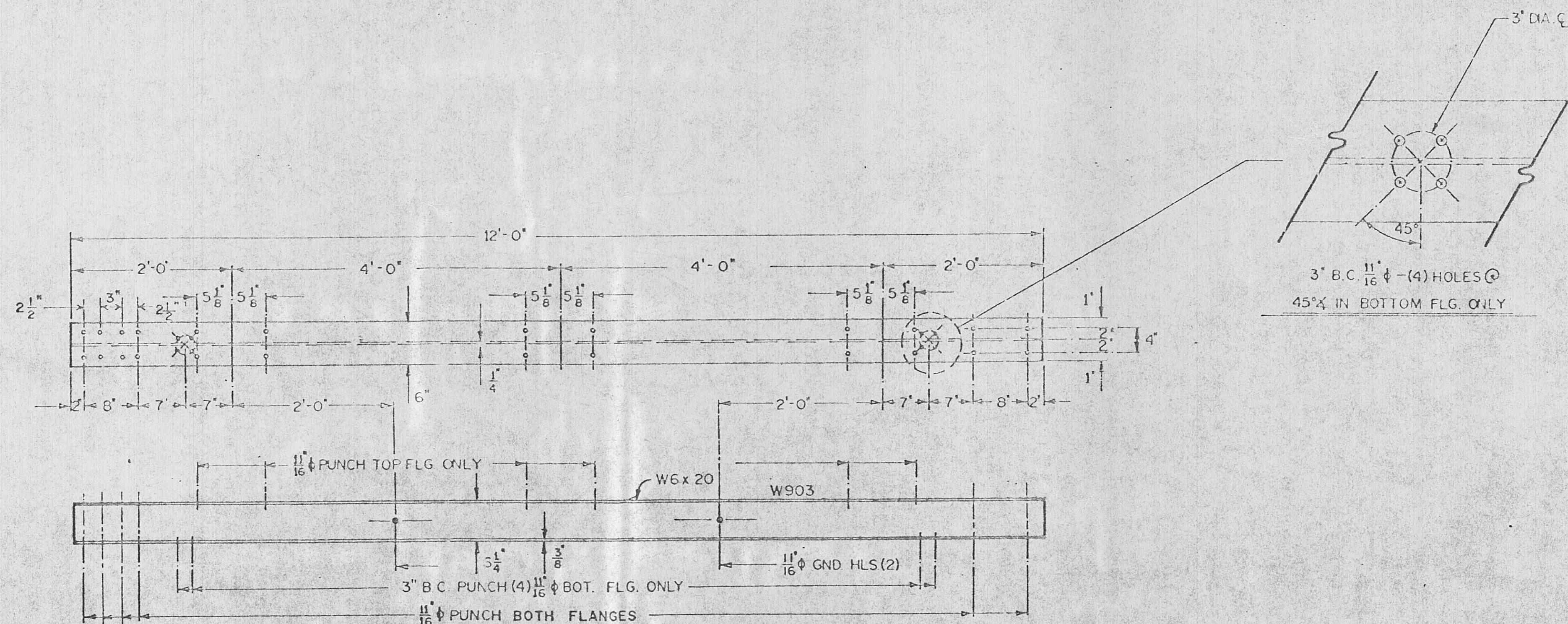
SHEET

16

OF SHEETS

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





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

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

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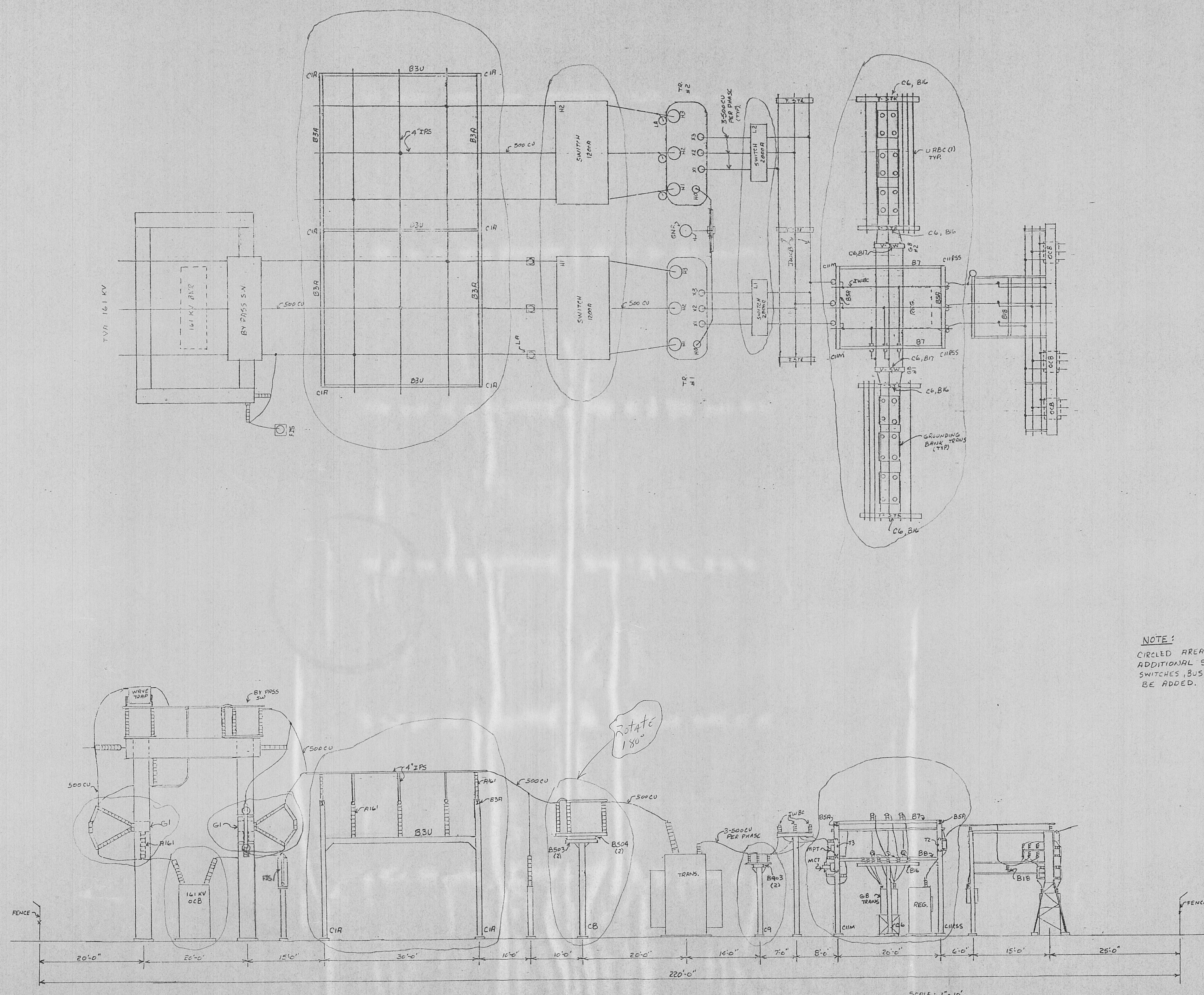
DATE: 6-8-94  
DRAWN: B.C.  
SCALE: NOTED

HARRIMAN UTILITY BOARD  
BLAIR ROAD SUBSTATION  
STRUCTURAL STEEL DETAILS

SHEET  
17  
OF SHEETS

ASSEMBLY # B903, L.S. SW. BM.





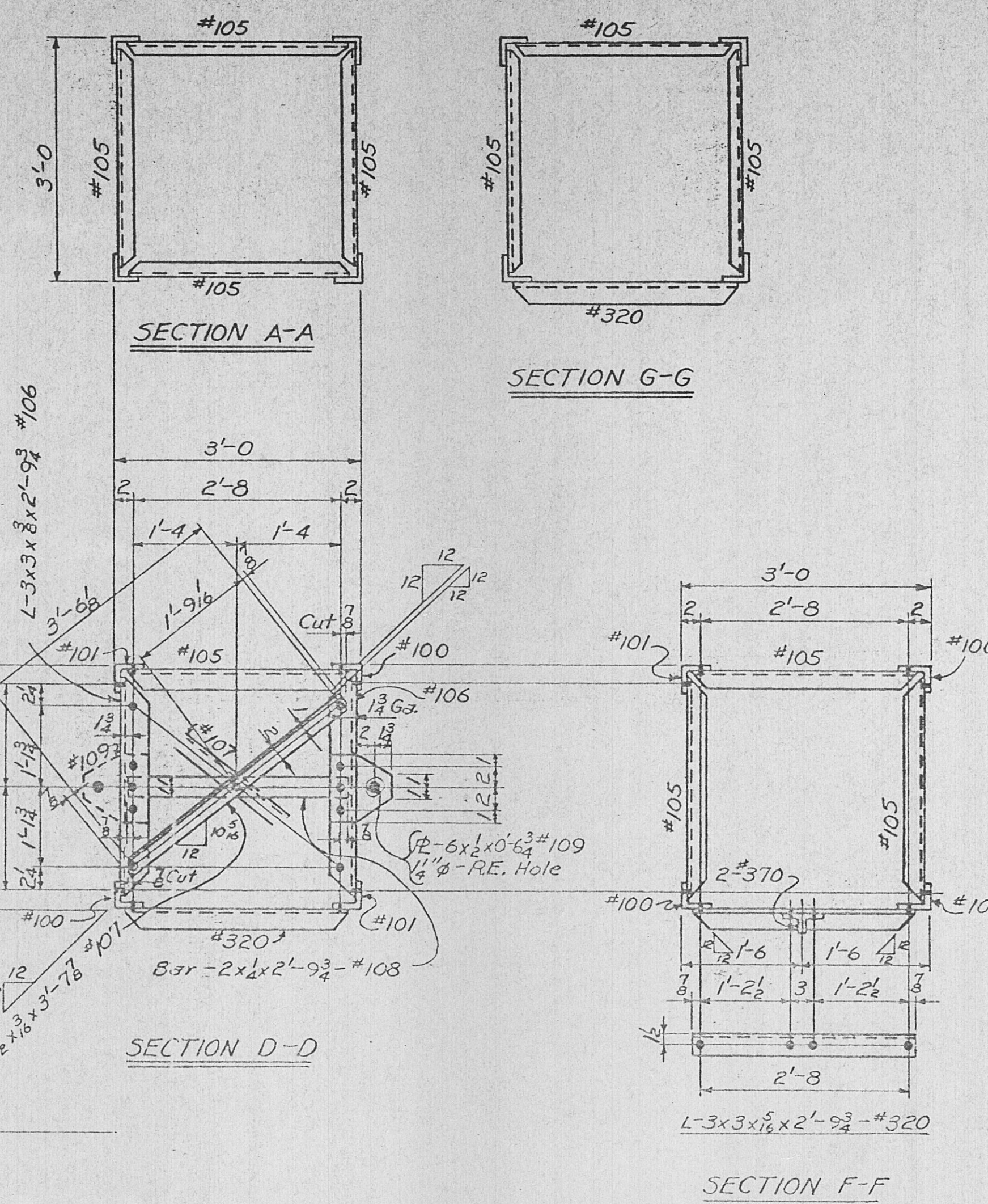
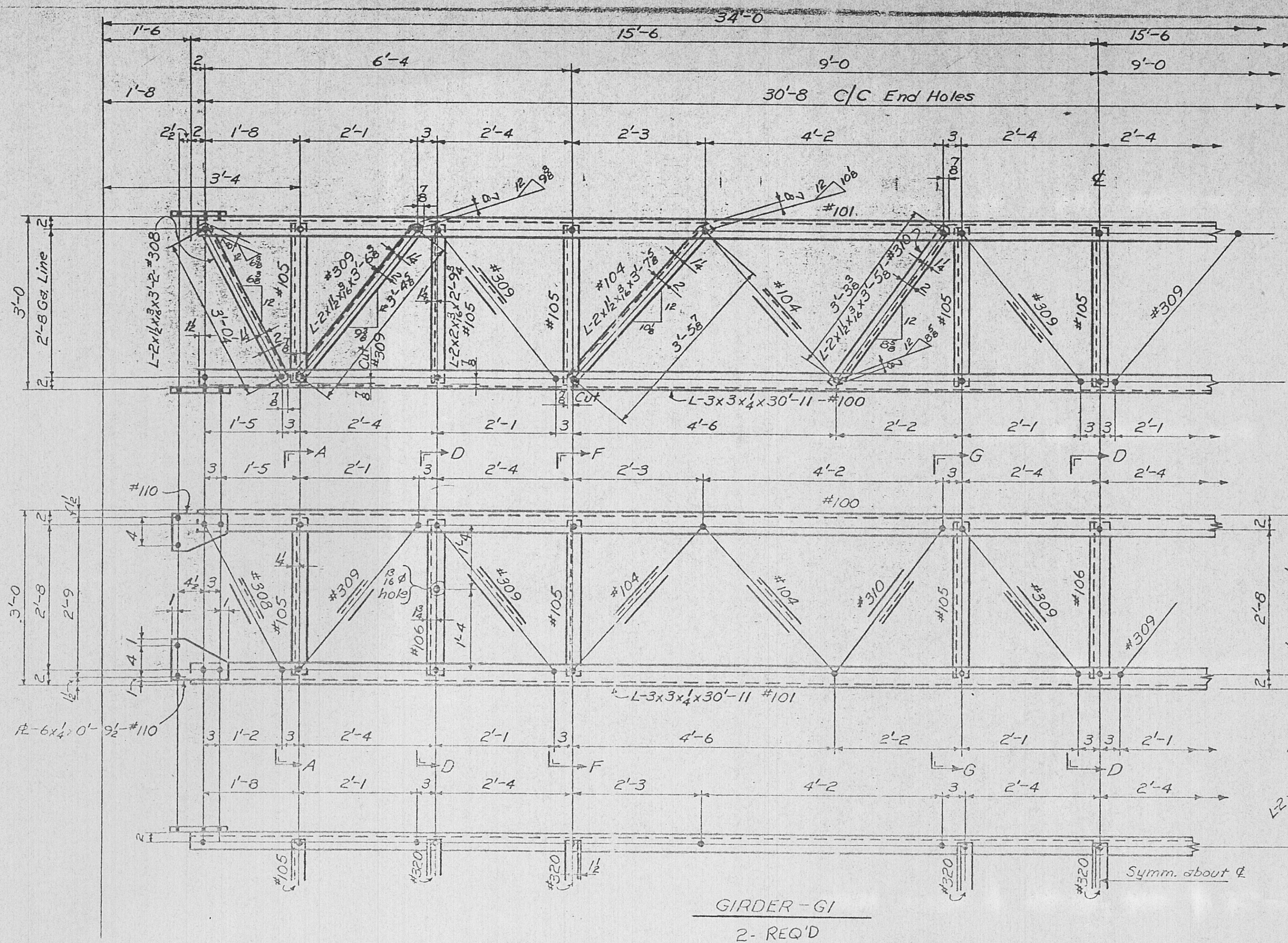
| REVISIONS | DATE |
|-----------|------|
|           |      |
|           |      |
|           |      |
|           |      |

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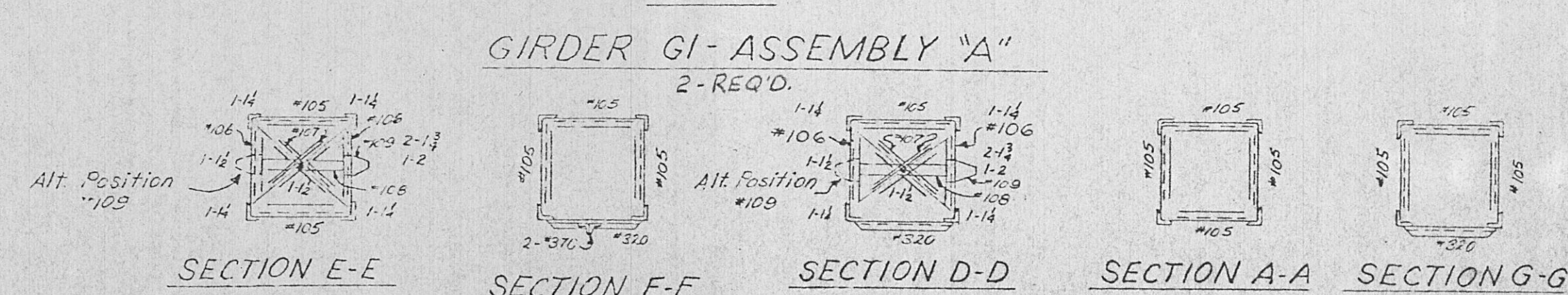
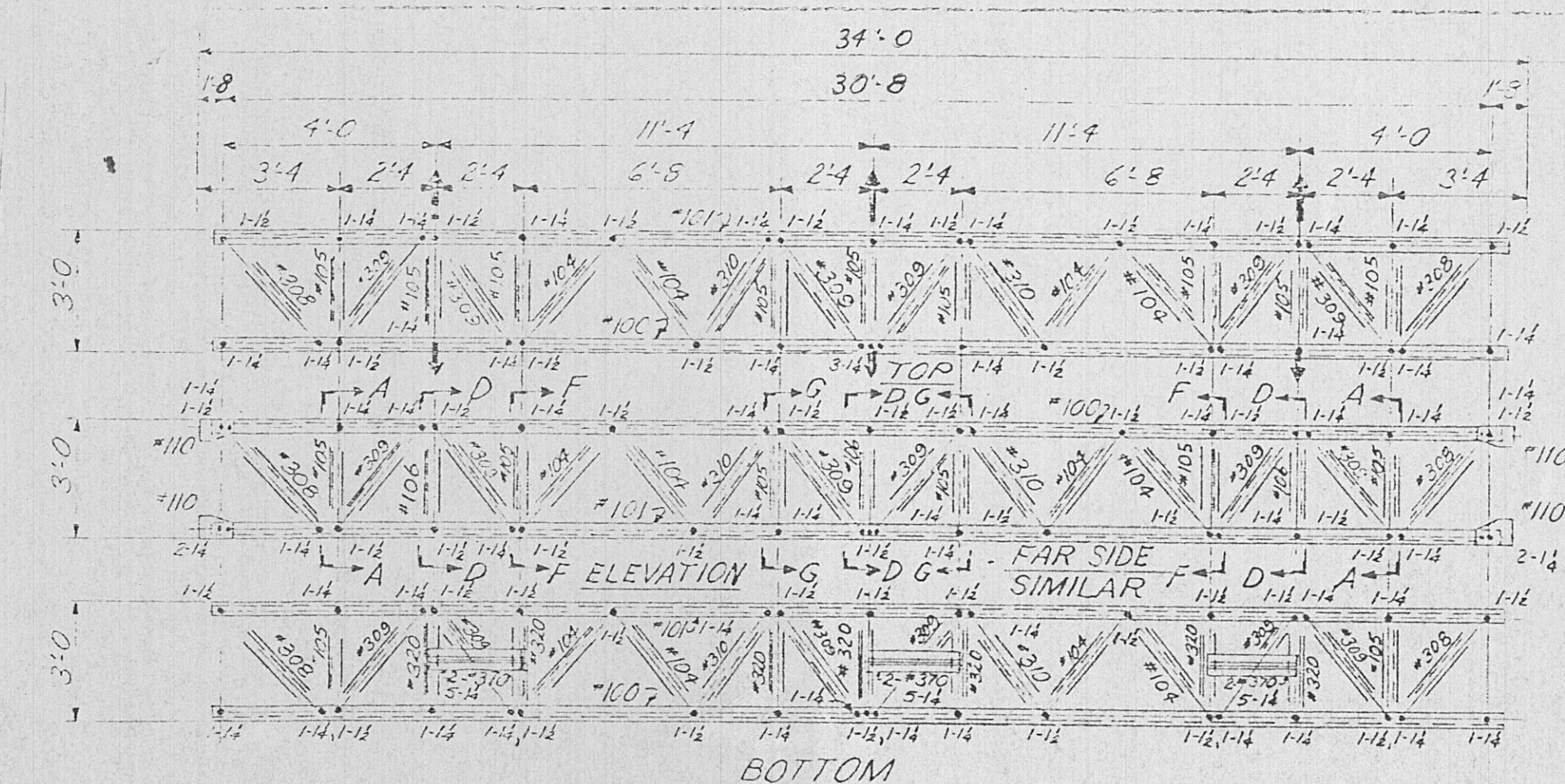
|        |  |
|--------|--|
| DATE:  |  |
| DRAWN: |  |
| SCALE: |  |

HARRIMAN UTILITY BOARD  
BLAIR ROAD SUBSTATION  
ARRANGEMENT & PROFILE





| LIST OF PIECES GIRDER G-1 |          |
|---------------------------|----------|
| MARK                      | NO REQ'D |
| 100                       | 2        |
| 101                       | 2        |
| 104                       | 16       |
| 105                       | 23       |
| 106                       | 6        |
| 107                       | 6        |
| 108                       | 3        |
| 109                       | 3        |
| 110                       | 8        |
| 320                       | 7        |
| 370                       | 6        |
| 308                       | 8        |
| 309                       | 24       |
| 310                       | 8        |



| MATERIAL REQ'D FOR ONE GIRDER G-1 ASSEMBLY "A" |           |                         |                              |
|------------------------------------------------|-----------|-------------------------|------------------------------|
| MARK                                           | NO. REQ'D | DESCRIPTION             | LENGTH FT. IN. W.T. LB. EACH |
| 100                                            | 2         | L 3 x 3 x 1/4           | 30 11 156                    |
| 101                                            | 2         | do                      | 30 11 156                    |
| 308                                            | 8         | L 2 x 1 1/2 x 3/8       | 3 2 7                        |
| 309                                            | 24        | do                      | 3 6 8                        |
| 104                                            | 16        | do                      | 3 7 8                        |
| 105                                            | 23        | L 2 x 2 x 3/8           | 2 9 7                        |
| 106                                            | 6         | L 3 x 3 x 3/8           | 2 9 21                       |
| 107                                            | 6         | L 2 x 1 1/2 x 3/8       | 3 7 8                        |
| 108                                            | 3         | Bar 2 x 4               | 2 9 5                        |
| 109                                            | 3         | do                      | 0 6 6                        |
| 110                                            | 8         | R 6 x 4                 | 0 9 4                        |
| 320                                            | 7         | L 3 x 3 x 5/8           | 2 9 18                       |
| 370                                            | 6         | L 3 x 3 x 1/4           | 2 5 13                       |
| 310                                            | 8         | L 2 x 1 1/2 x 3/8       | 3 5 8                        |
| 123                                            | 5         | 5/8" Bolls. W/ANN,FW,LW | 0 14 0.31                    |
| 82                                             | do        | do                      | 0 14 0.33                    |
| 7                                              | do        | do                      | 0 14 0.36                    |
| 4                                              | do        | do                      | 0 2 0.38                     |

Total Weight=1737

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

NOTES:  
All holes 11" 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

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HARRIMAN UTILITY BOARD  
BLAIR ROAD SUBSTATION  
STRUCTURAL STEEL DETAILS

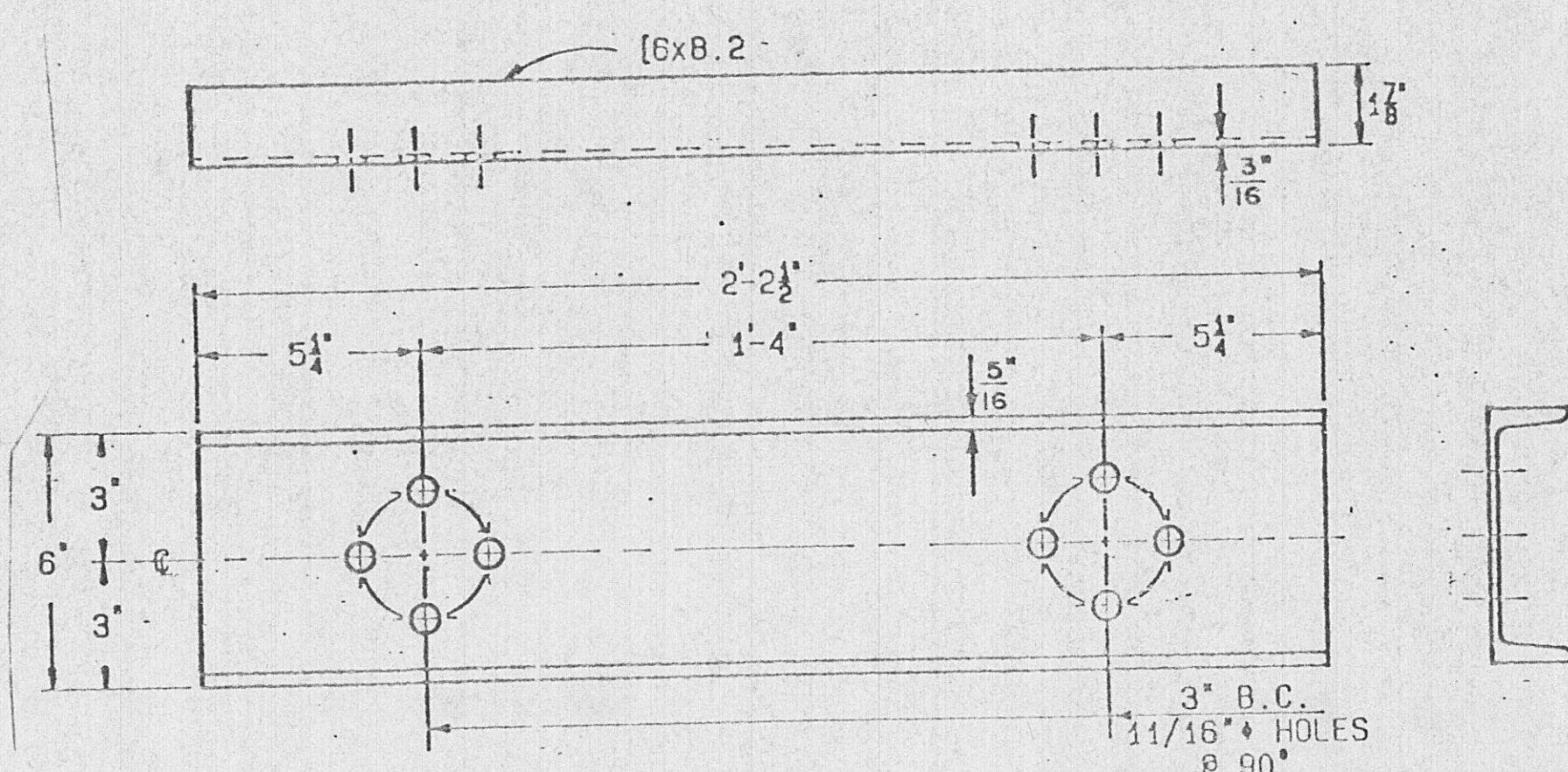
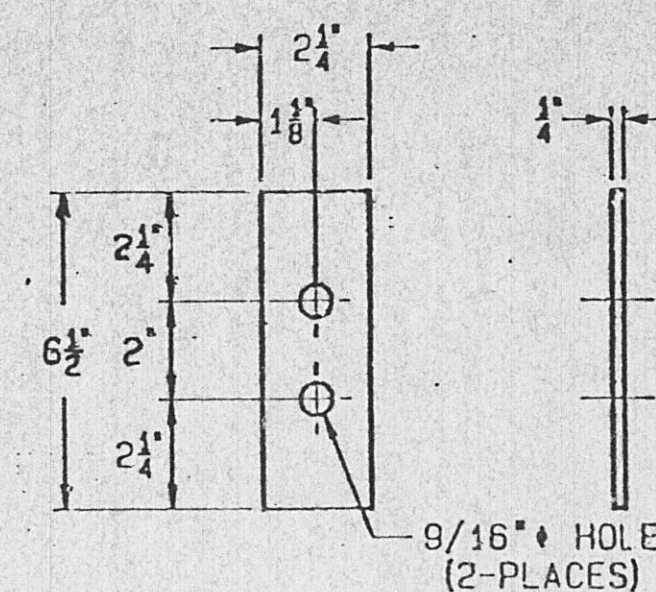
SHEET  
18  
OF SHEETS



# DET. #34b $\phi$ o (SIDE PLATE)

2 REQ'D FOR EACH  
ASSEMBLY #IM

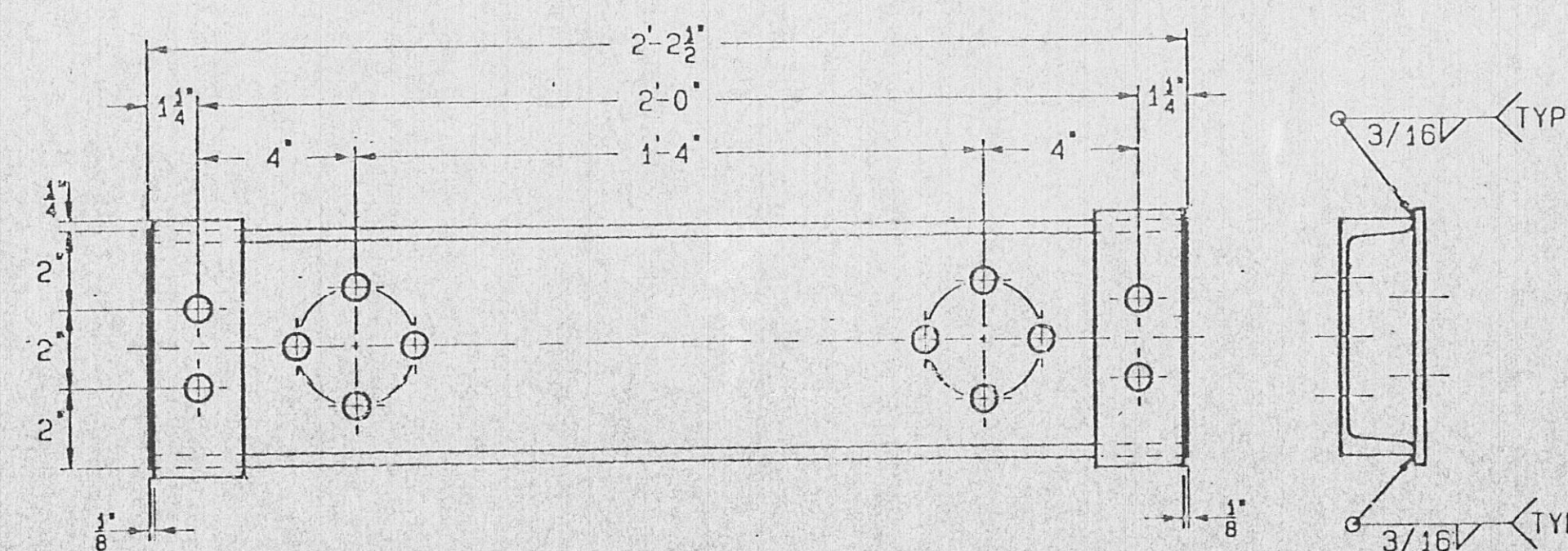
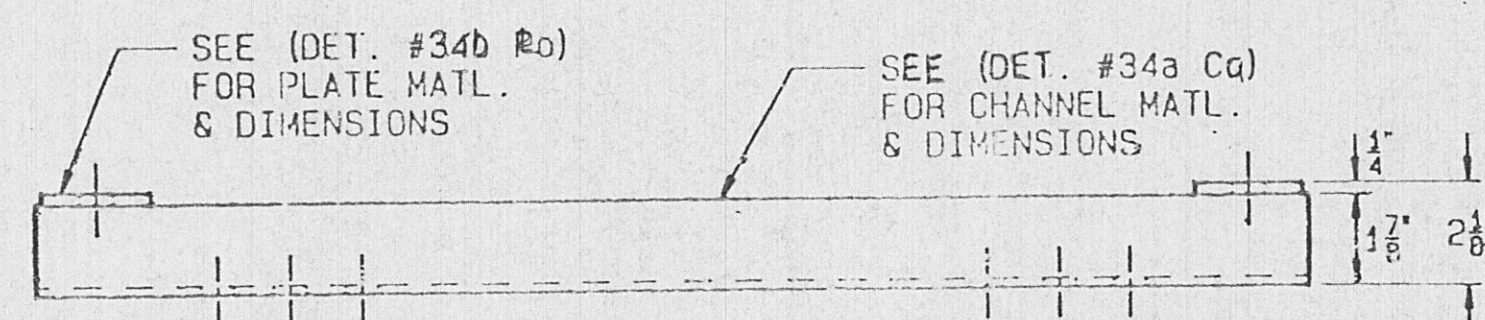
SCALE:  $1/4"=1'$   
MATL.  $1/4" \times 2 1/4" \times 6 1/2"$  LG. PLATE



# DET. #34a Co (CHANNEL)

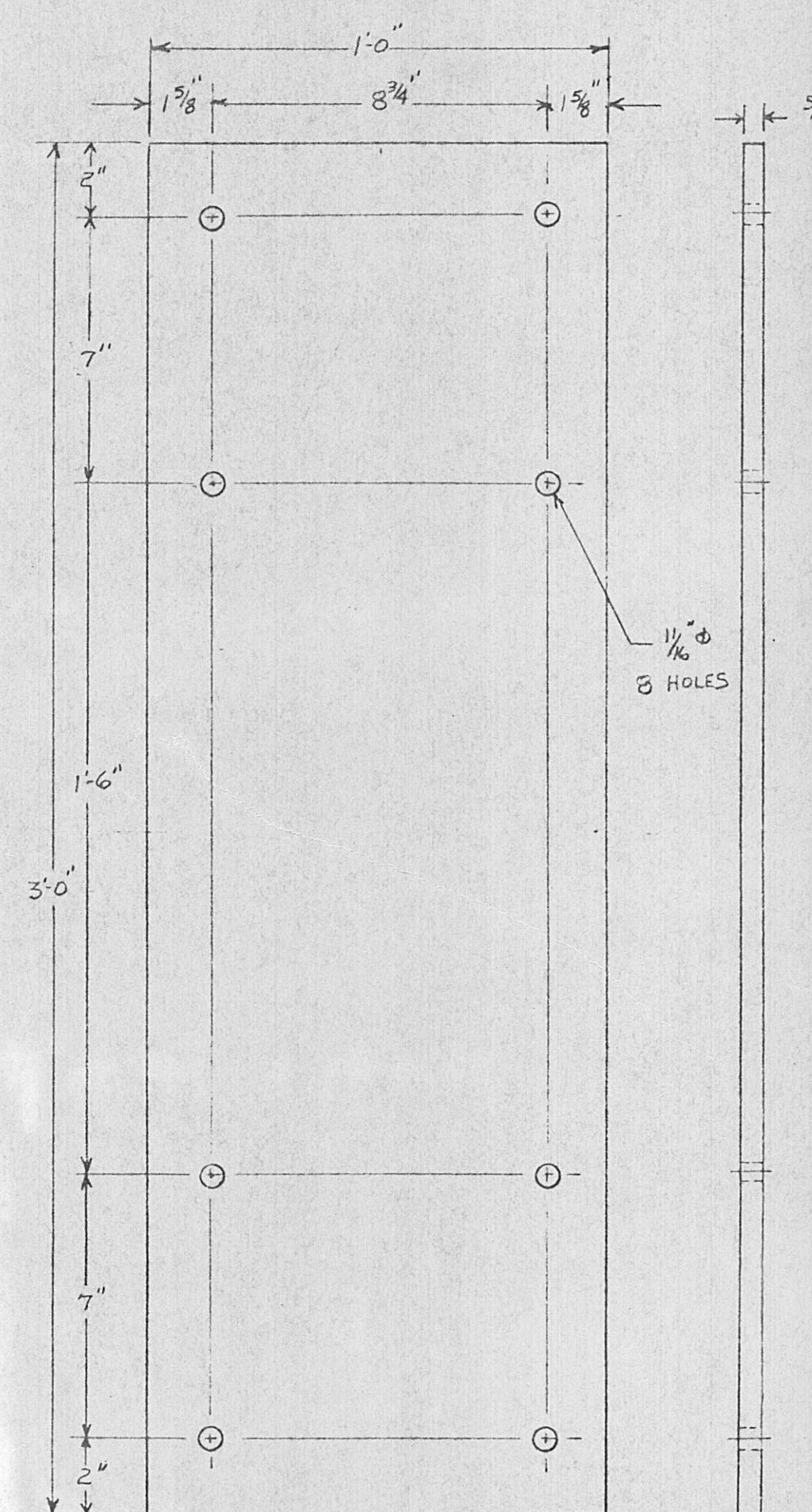
1 REQ'D FOR EACH  
ASSEMBLY #IM

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



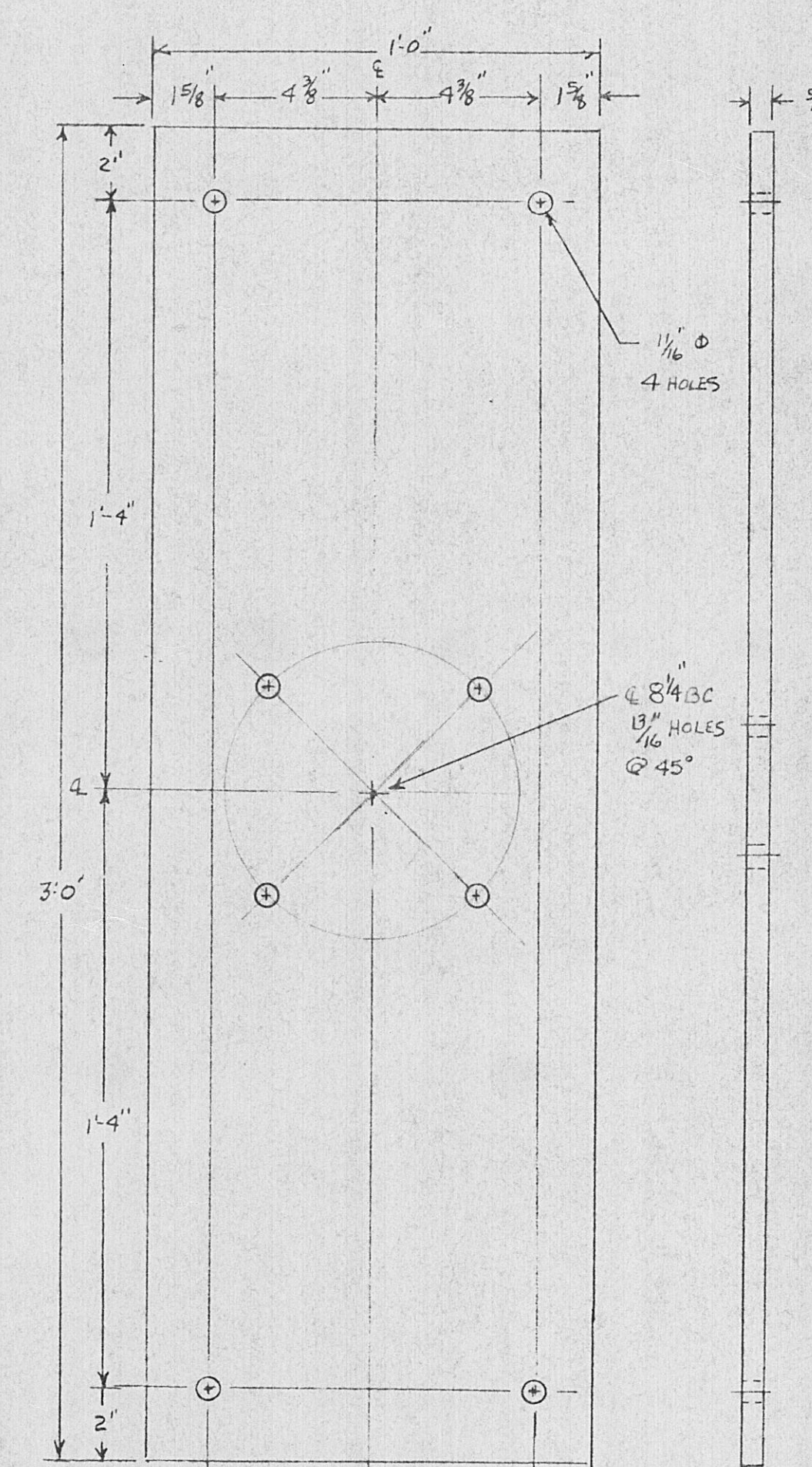
# ASSEMBLY #IM (INSULATOR MOUNTING)

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



# ASSEMBLY #VWP (VEE SWITCH PLATE)

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



# ASSEMBLY #ISP (INSULATOR SUPPORT PLATE)

6-REQ'D  
SCALE:  $1/4"=1'$   
MATL:  $5/8" \times 1' \times 3'$  LONG PLATE

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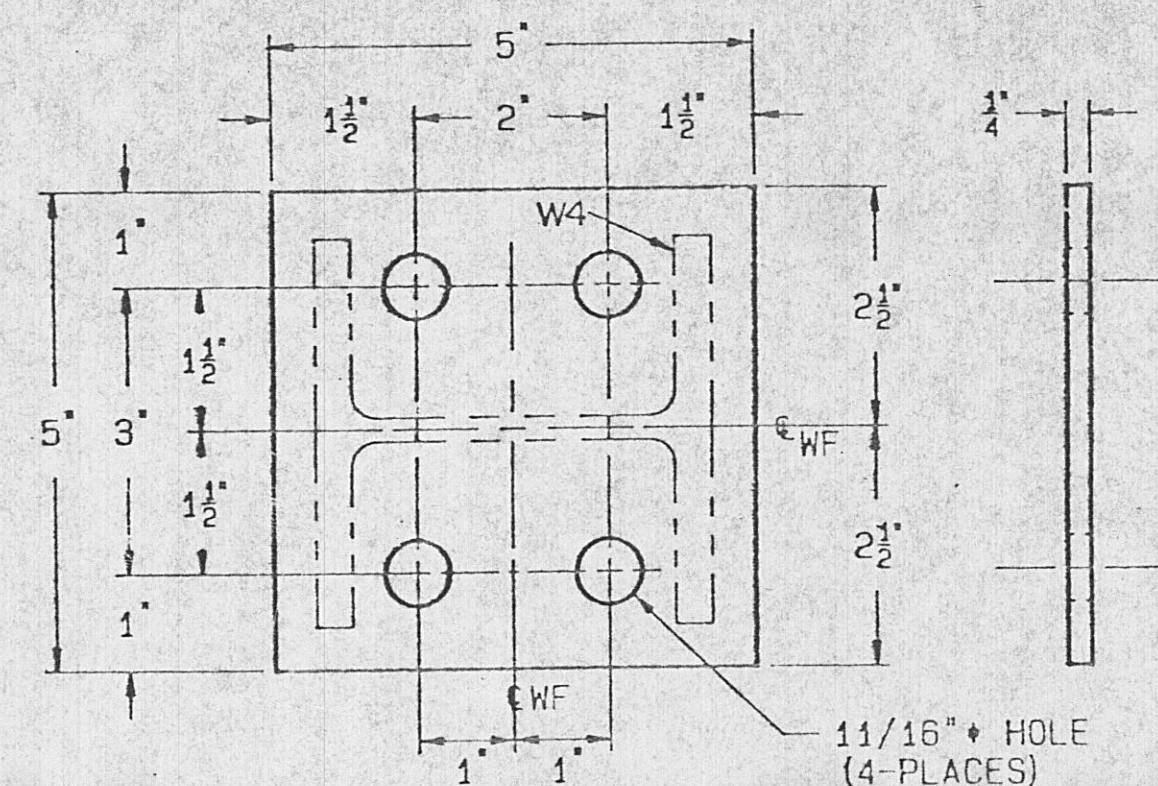
2117 FRANKLIN ROAD - 37204 TEL. (615)298-3338

HARRIMAN UTILITY BOARD  
BLAIR ROAD SUBSTATION  
STRUCTURAL STEEL DETAILS

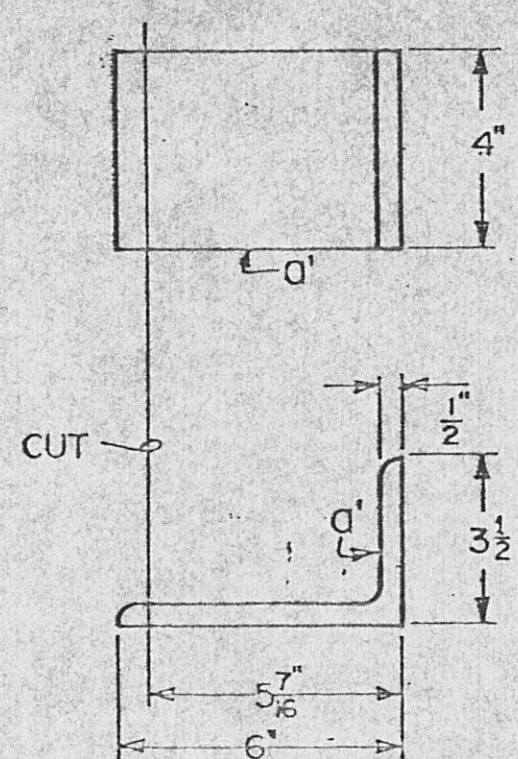
SHEET  
19  
OF SHEETS

ASSEMBLY IM, VWP, ISP

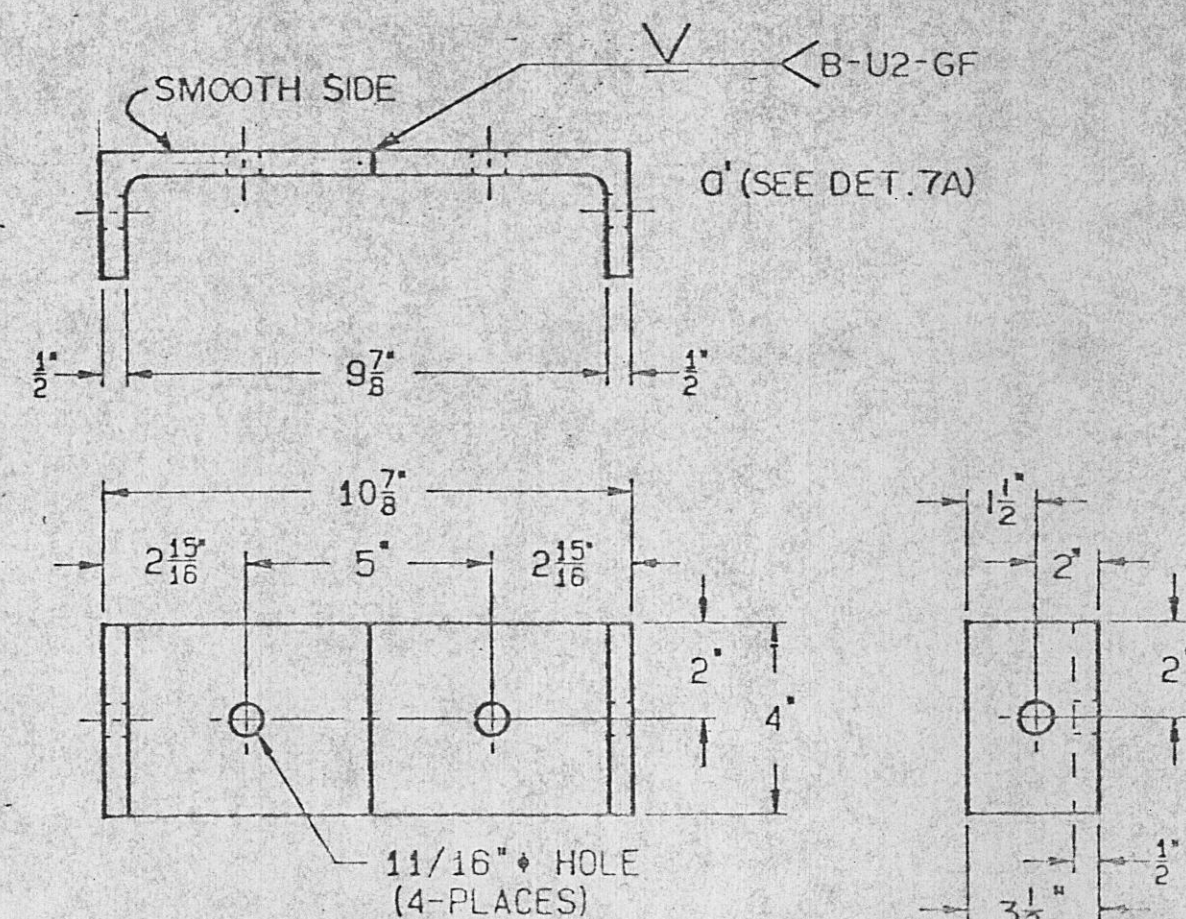




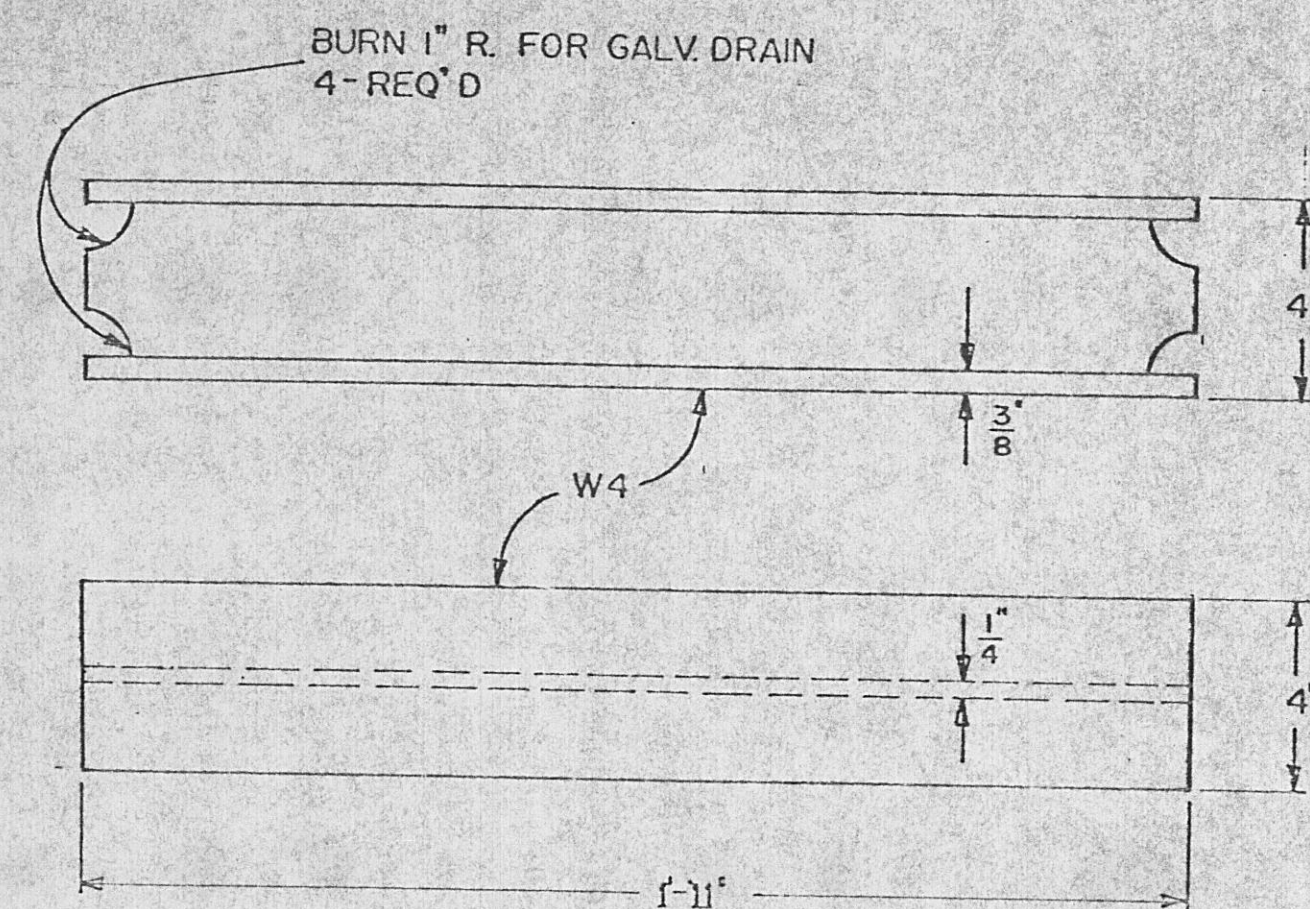
DET. #10 TEP  
2-REQ'D FOR EACH  
SUBASSEMBLY HTWF  
SCALE: 1/2" = 1"  
MATERIAL 1/4" x 5' x 0'-5" LONG PLATE



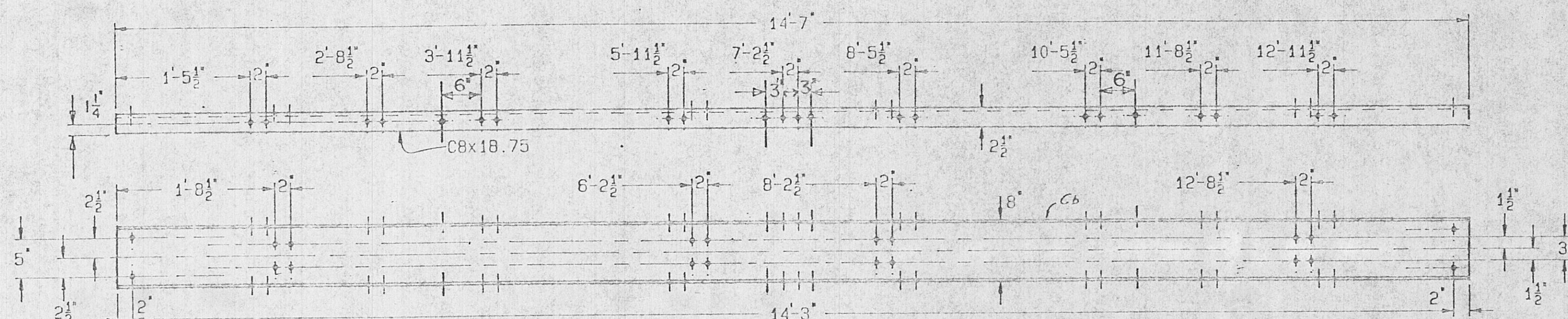
DET. #7A (CUT ANGLE) ITEM d'  
2-REQ'D FOR EACH  
SUBASSEMBLY ESH  
SCALE: 1/4" = 1"  
MATERIAL 6" x 3-1/2" x 1/2" X CUT 4" LG



DET. #7 ESH (END STRAP)  
4-REQ'D FOR EACH  
ASSEMBLY #T2  
SCALE: 1/1" = 1"

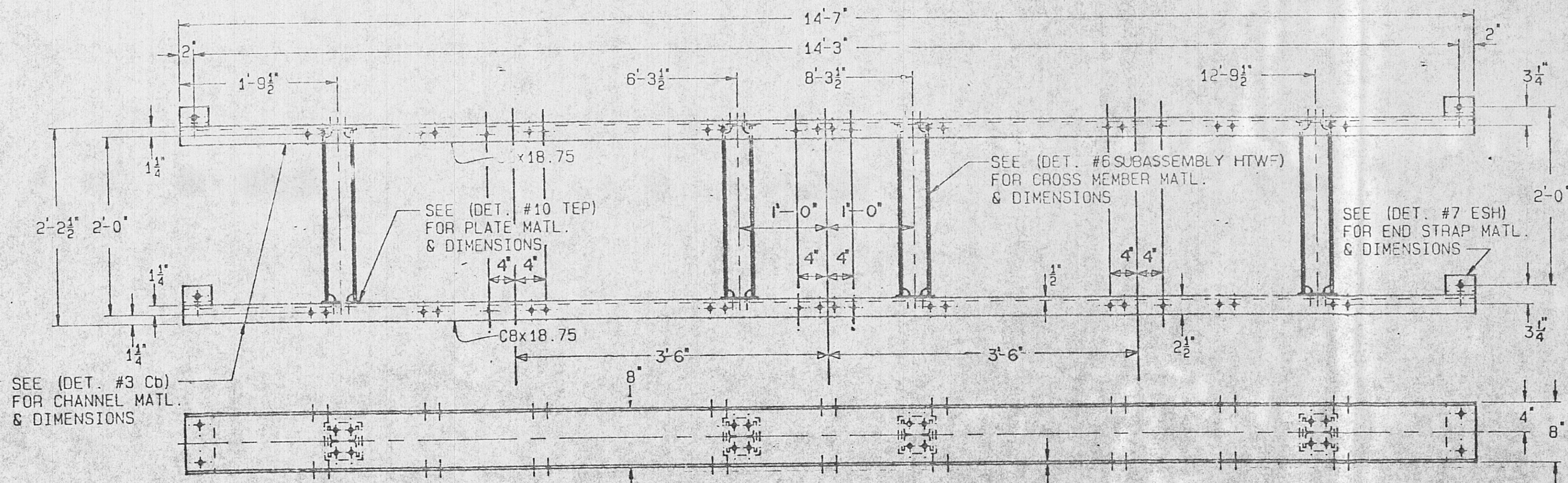


DET. #6A ITEM W4  
1- REQ'D FOR EACH  
SUBASSEMBLY HTWF  
SCALE: 1/4" = 1"  
MATERIAL: W4 x 13 x 1'-11" LONG

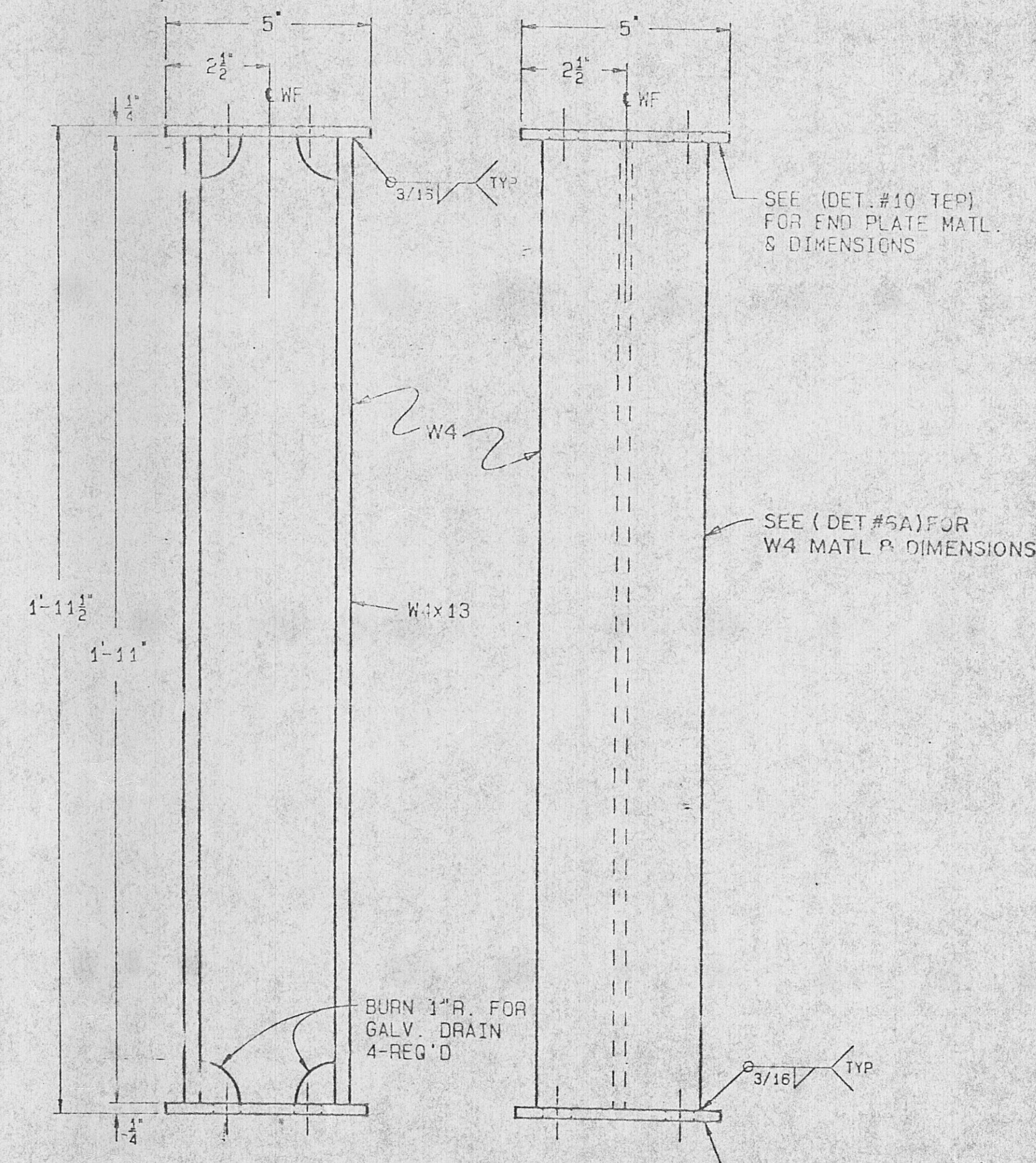


DET. #3 Cb (CHANNEL)  
2-REQ'D FOR EACH  
ASSEMBLY #T2  
SCALE: 1" = 1'-0"  
MATERIAL C8 x 18.75 x 14'-7" LONG

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"

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

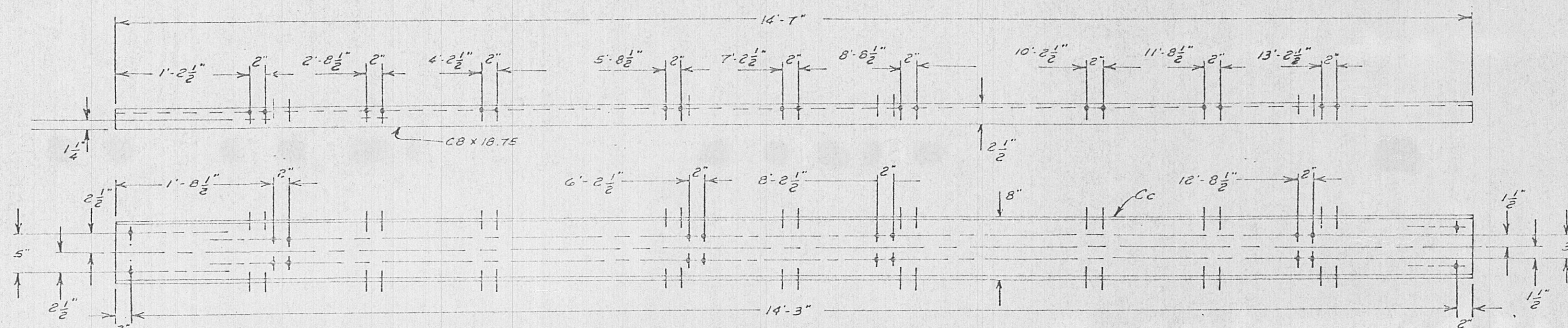
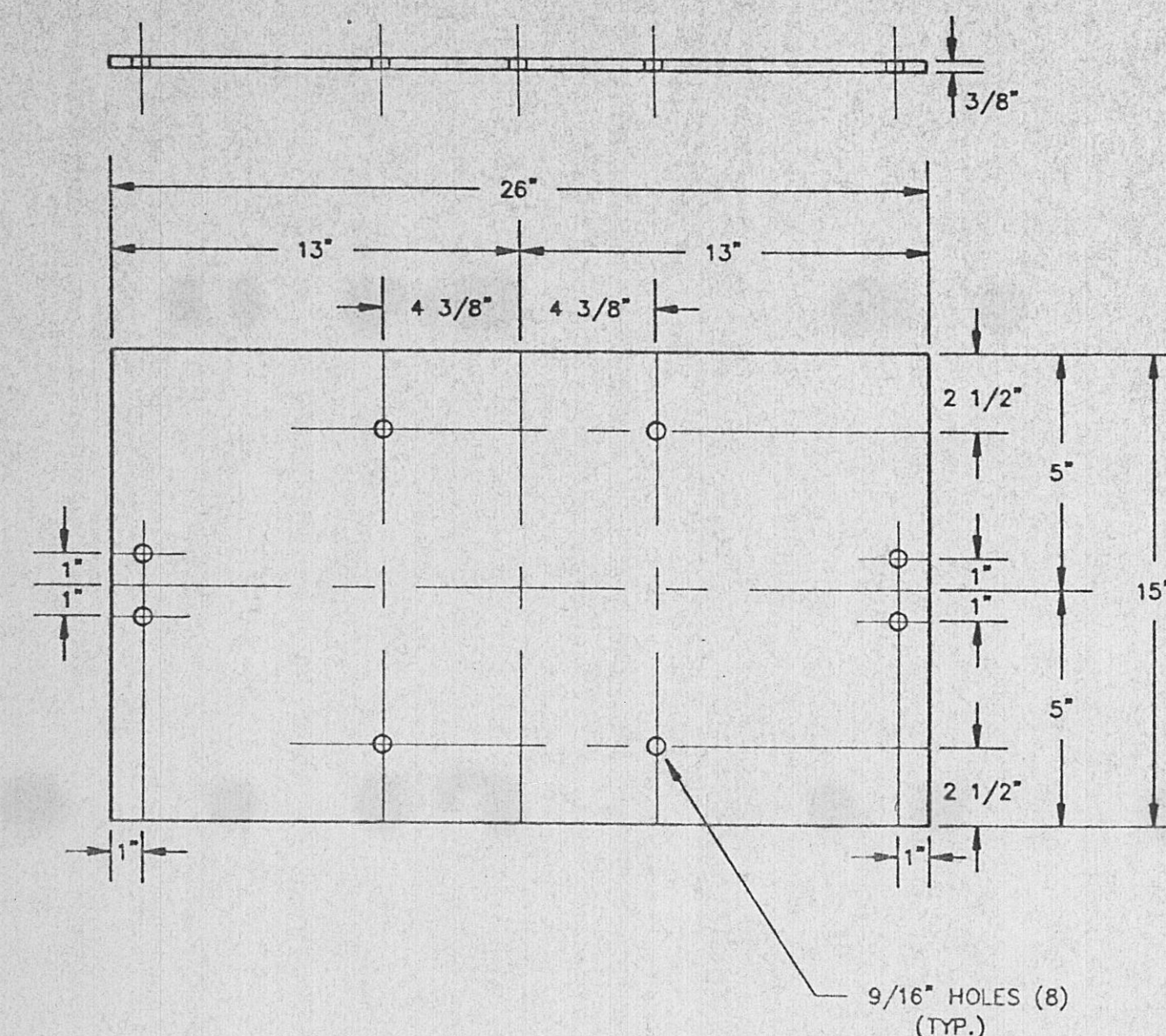
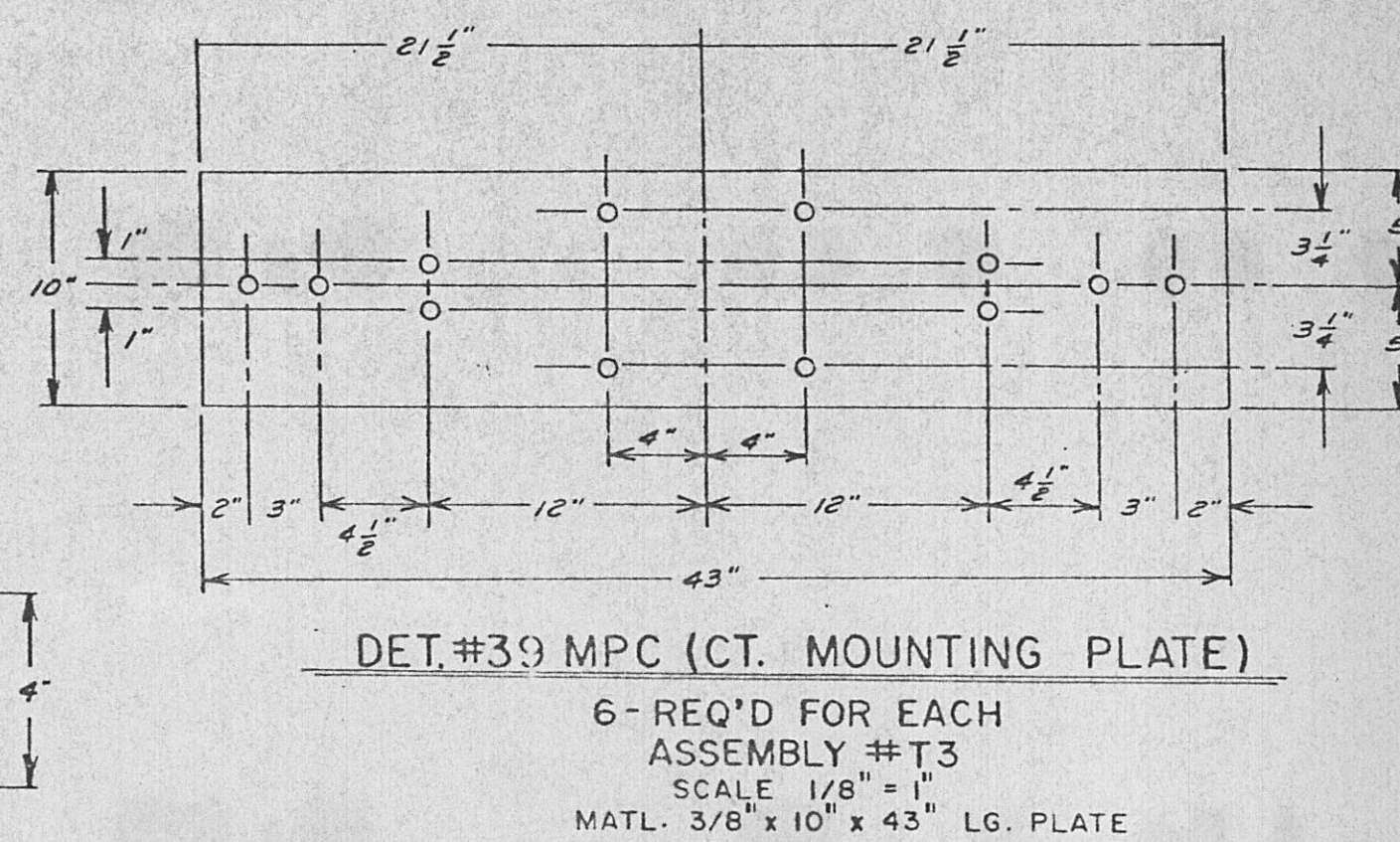
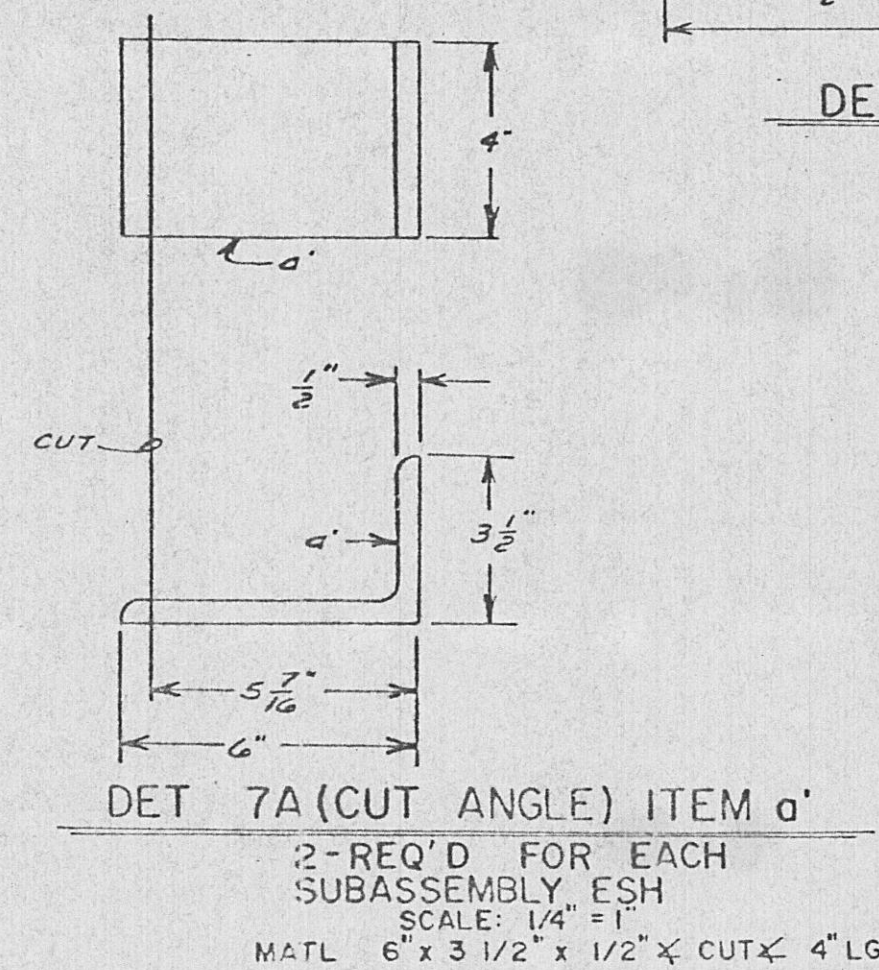
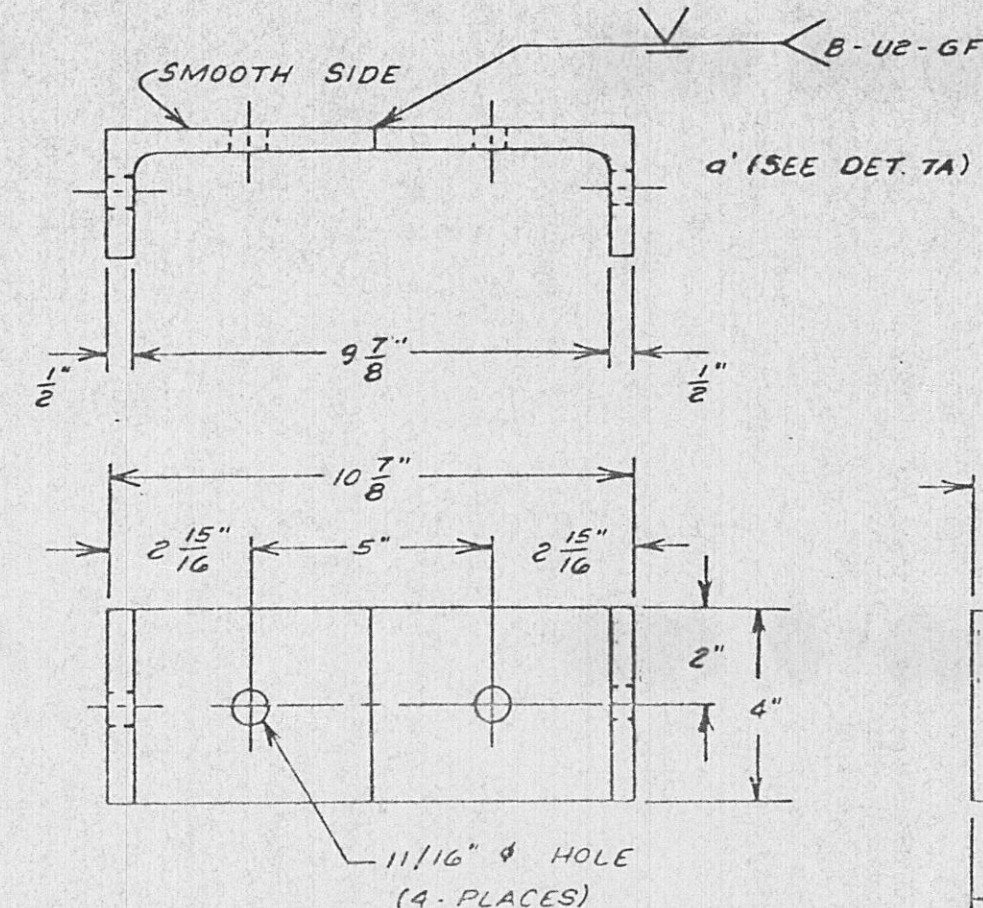
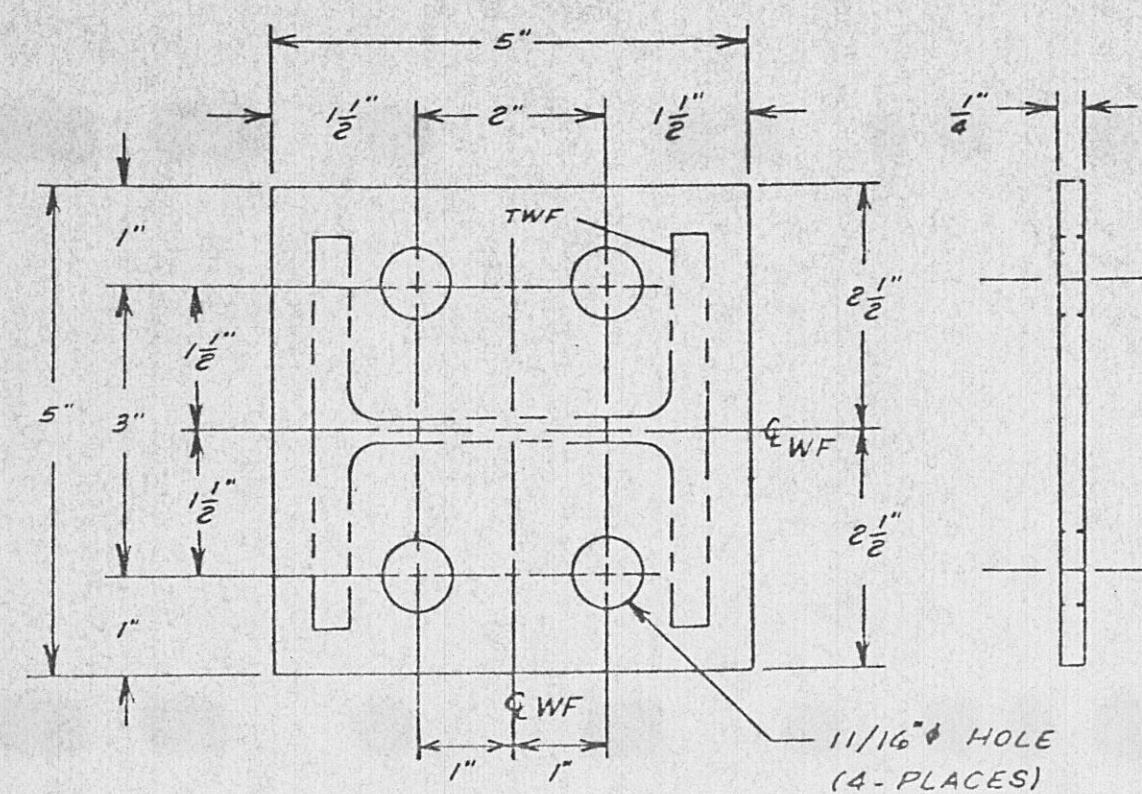
|                                |                            |                     |
|--------------------------------|----------------------------|---------------------|
| McWHORTER & FRANKLIN ENGINEERS | 2117 FRANKLIN ROAD - 37204 | TEL. (615) 298-3338 |
| NASHVILLE, TENNESSEE           |                            |                     |

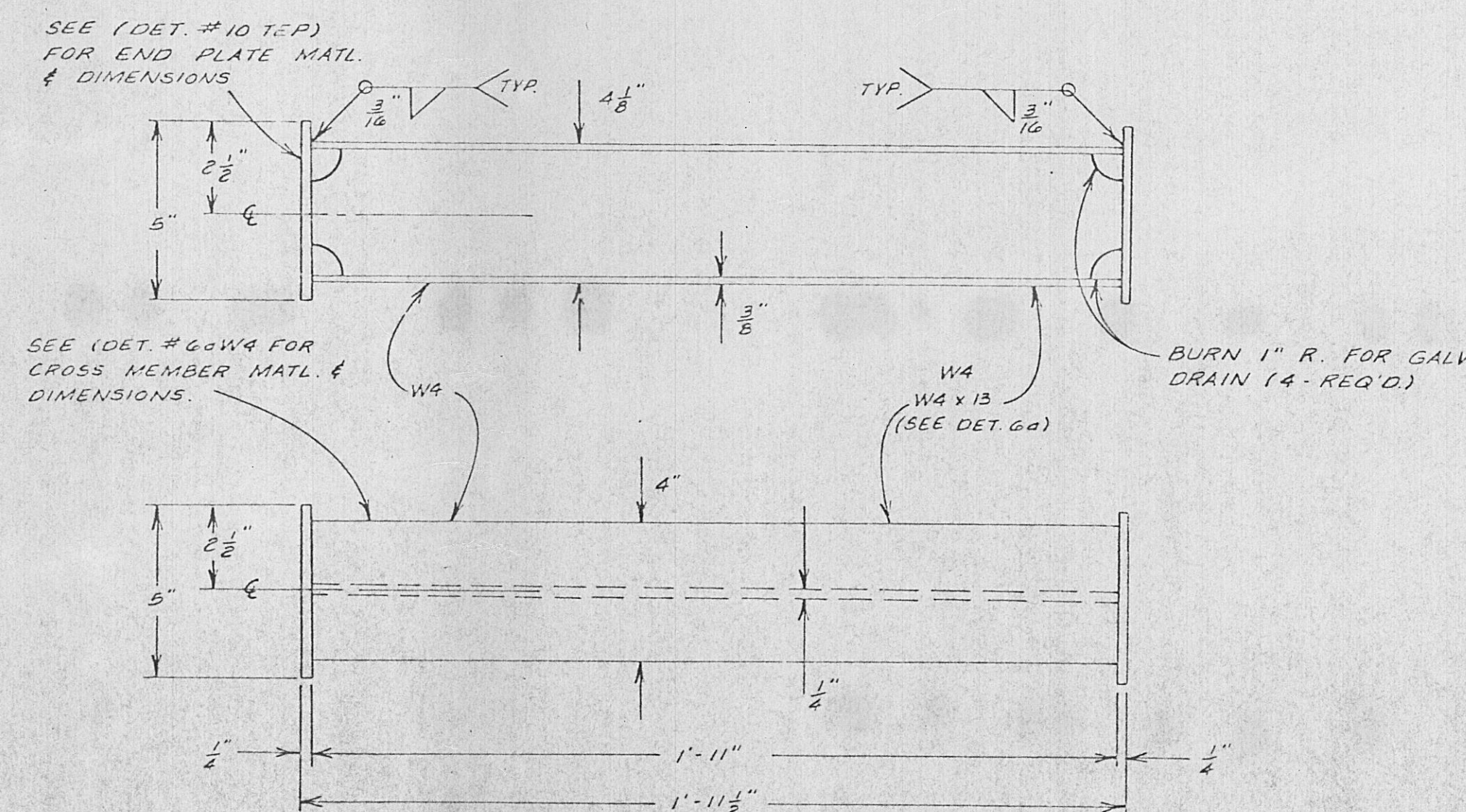
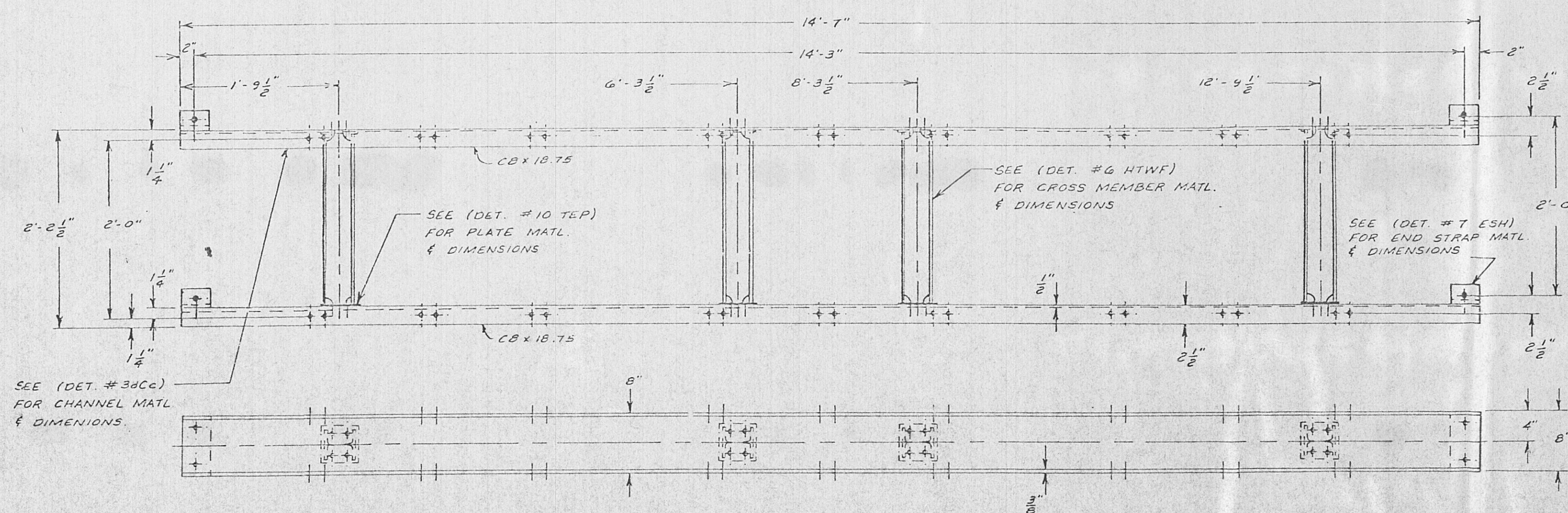
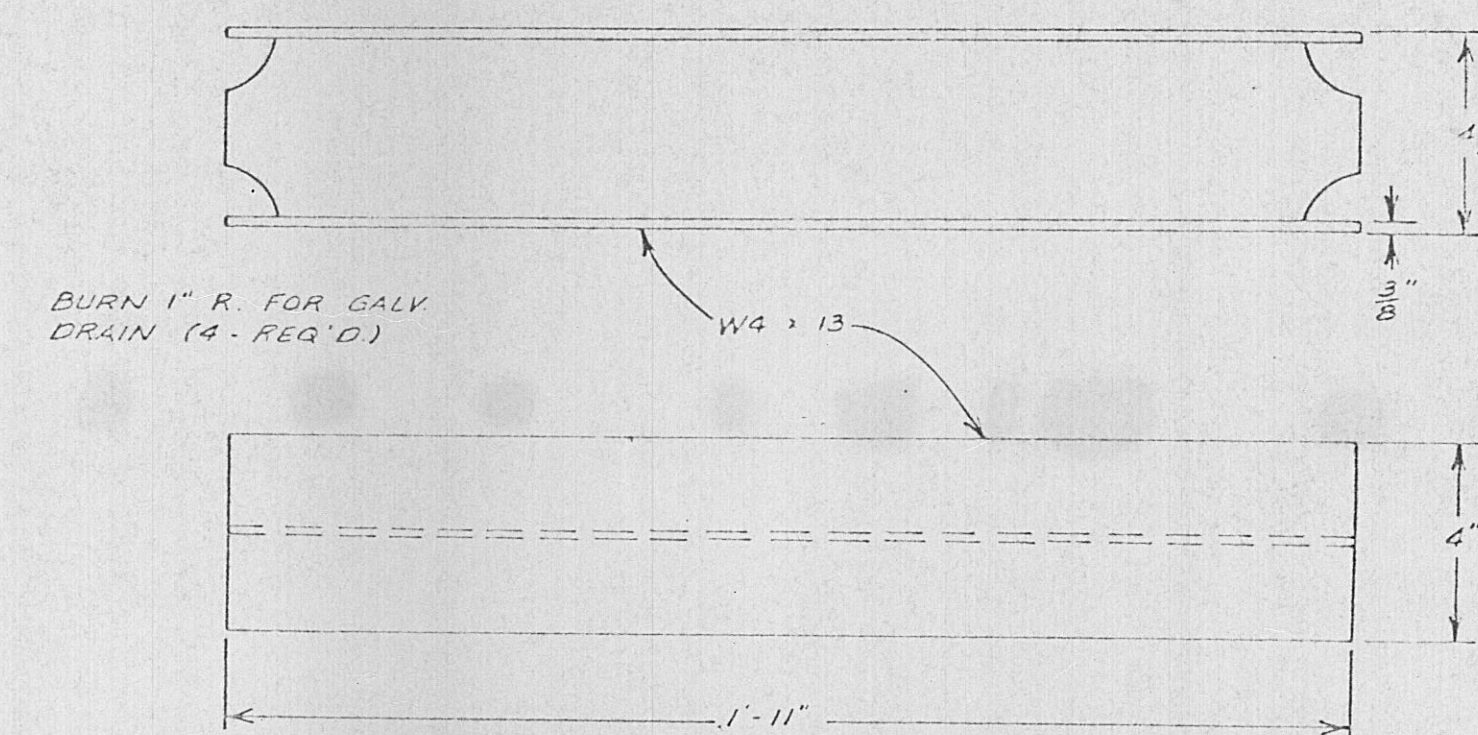
|                          |           |
|--------------------------|-----------|
| HARRIMAN UTILITY BOARD   | SHEET     |
| BLAIR ROAD SUBSTATION    | 20        |
| STRUCTURAL STEEL DETAILS | OF SHEETS |

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





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



ASSEMBLY #T3  
(METEER TRUSS)

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HARRIMAN UTILITY BOARD  
BLAIR ROAD SUBSTATION  
STRUCTURAL STEEL DETAILS

SHEET  
21  
OF SHEETS

REVISIONS

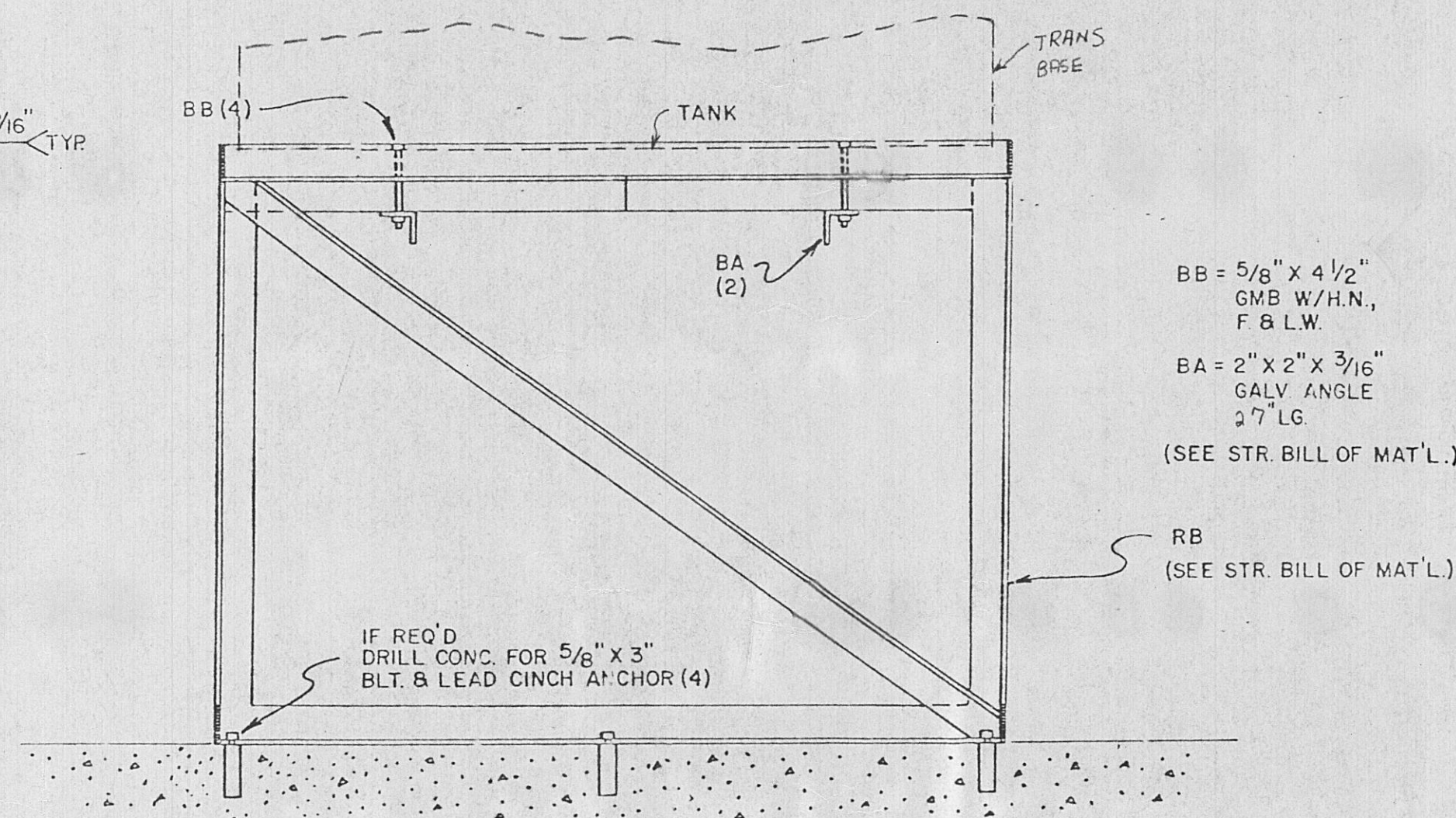
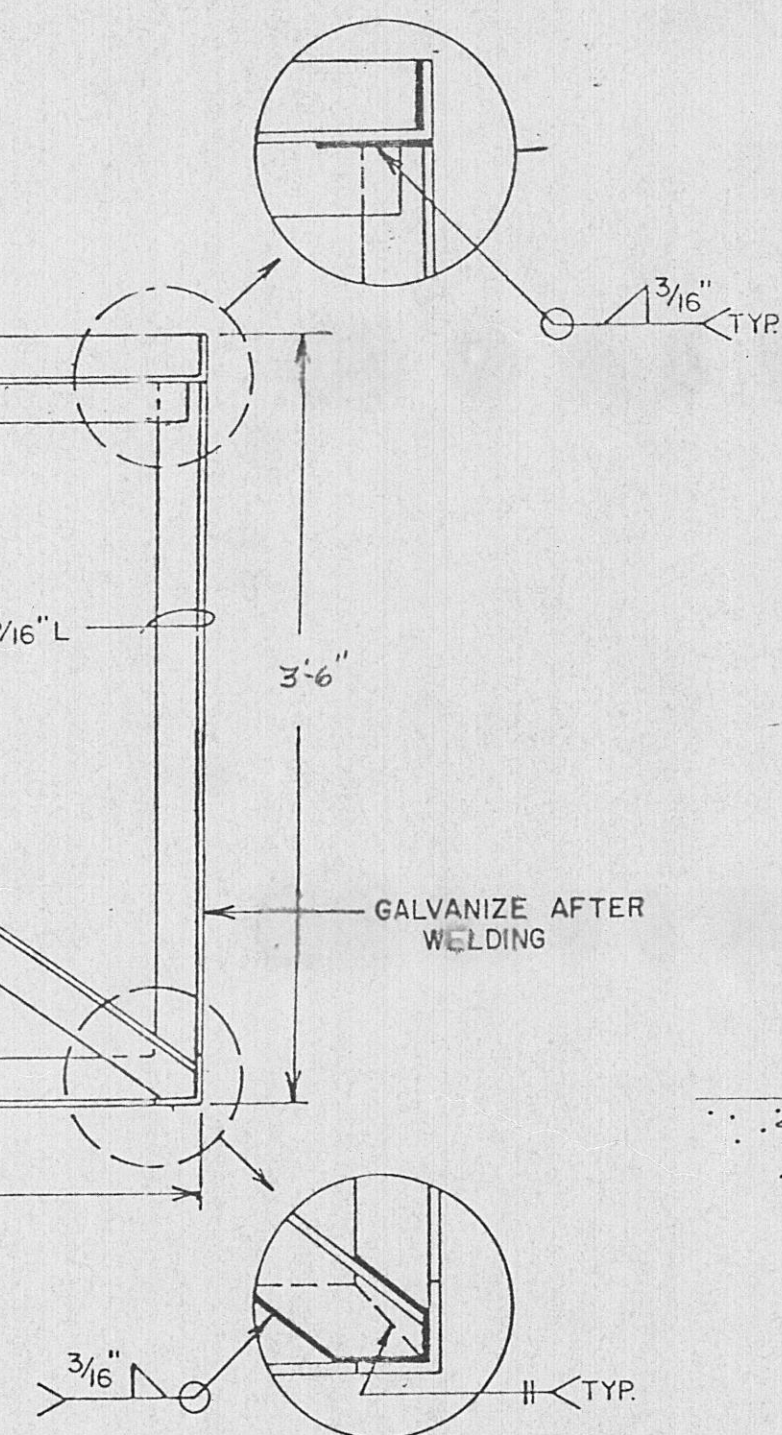
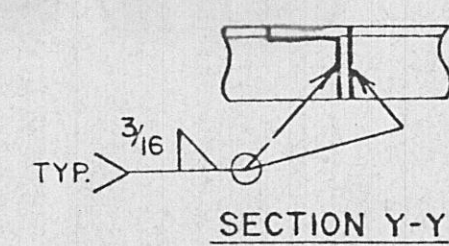
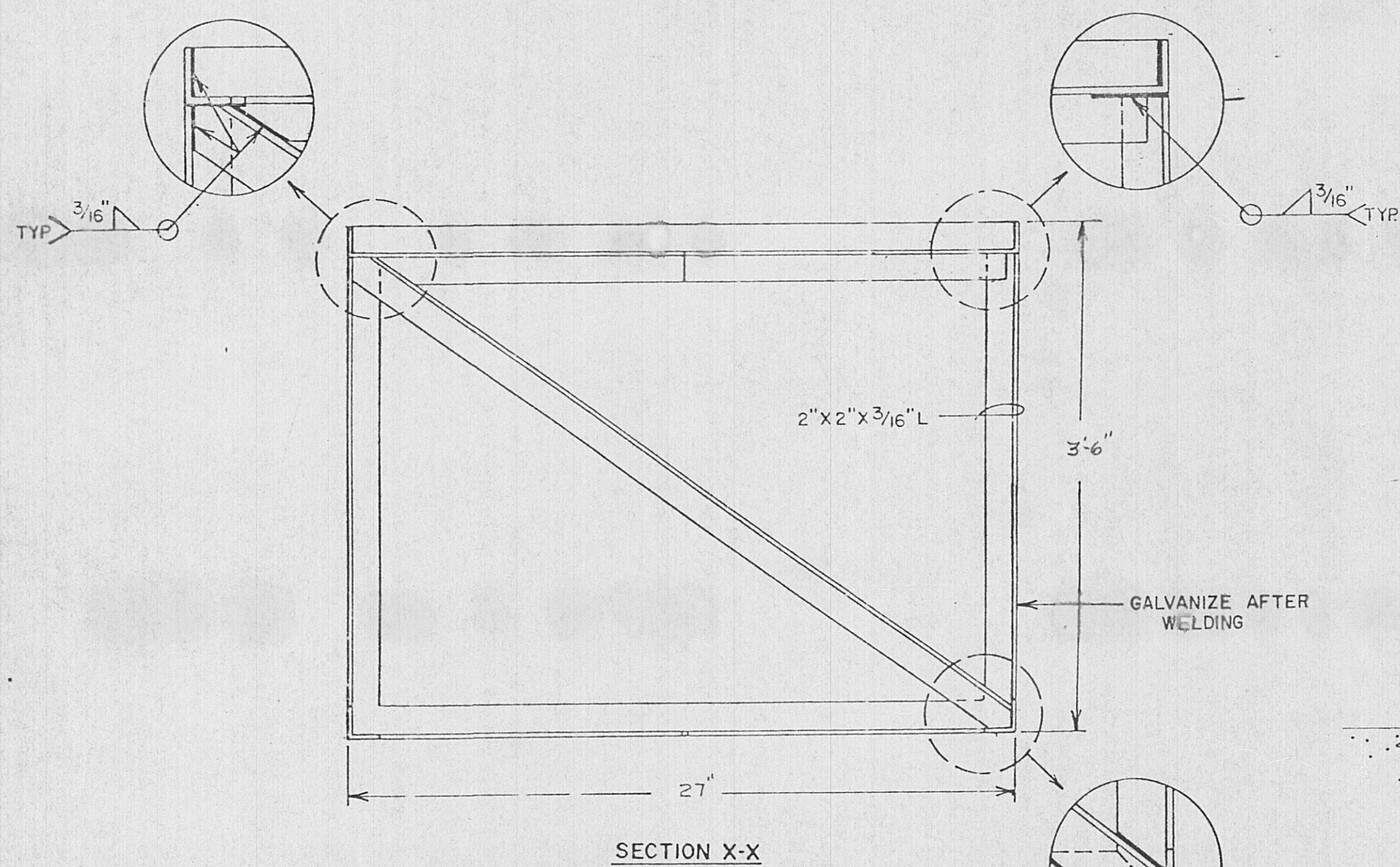
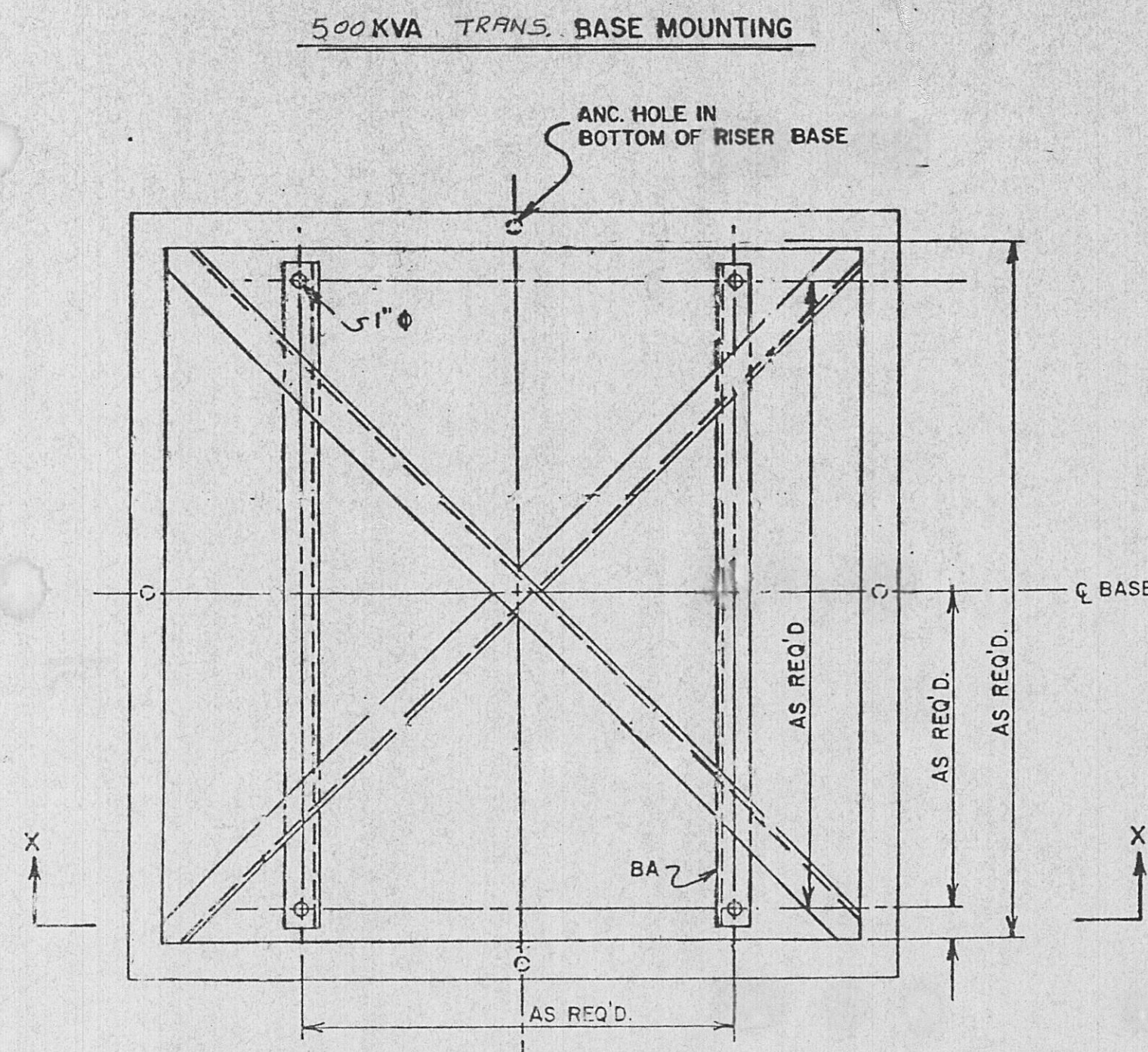
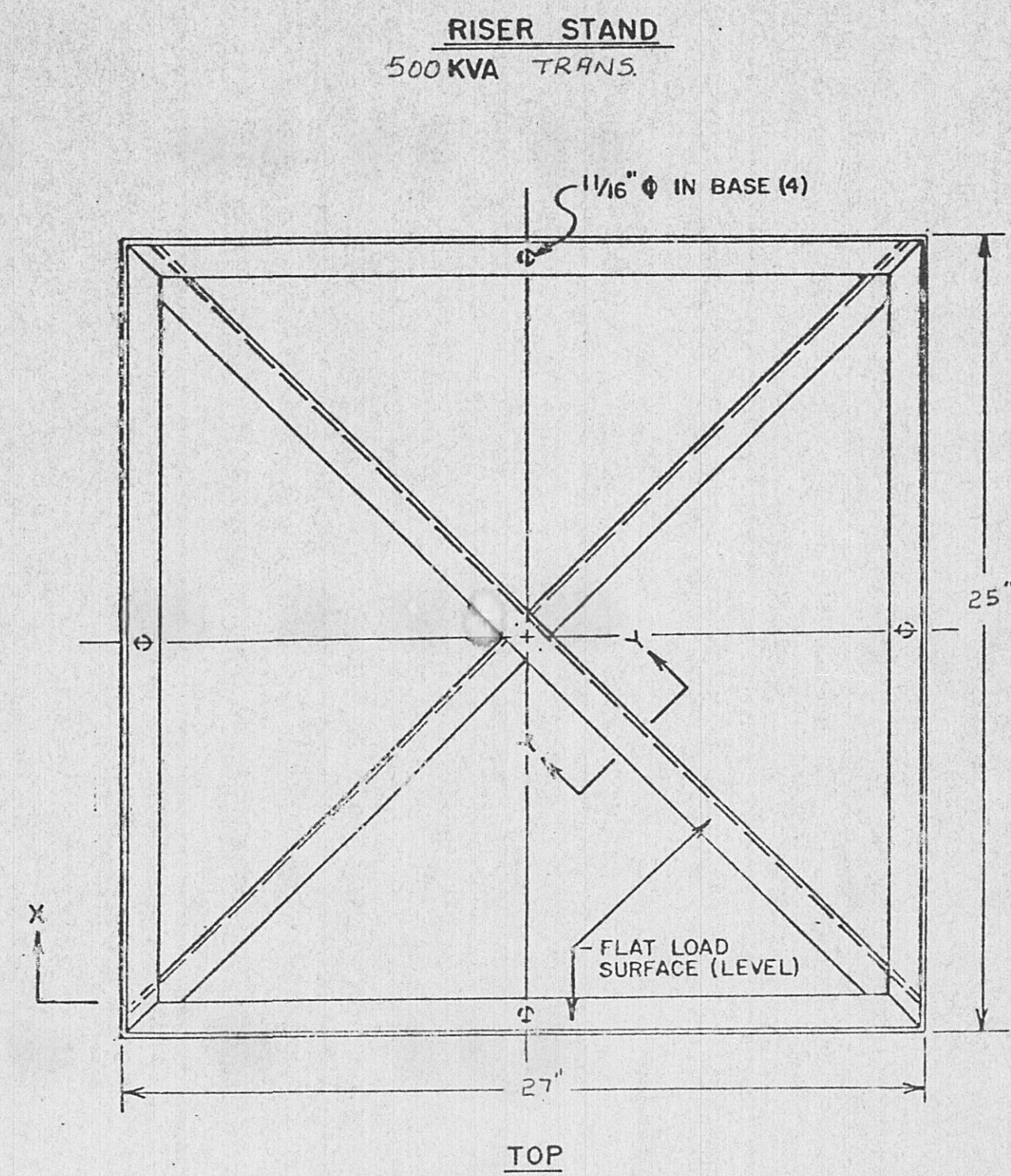
DATE

DATE: 6-13-94

DRAWN:

SCALE: NOTED

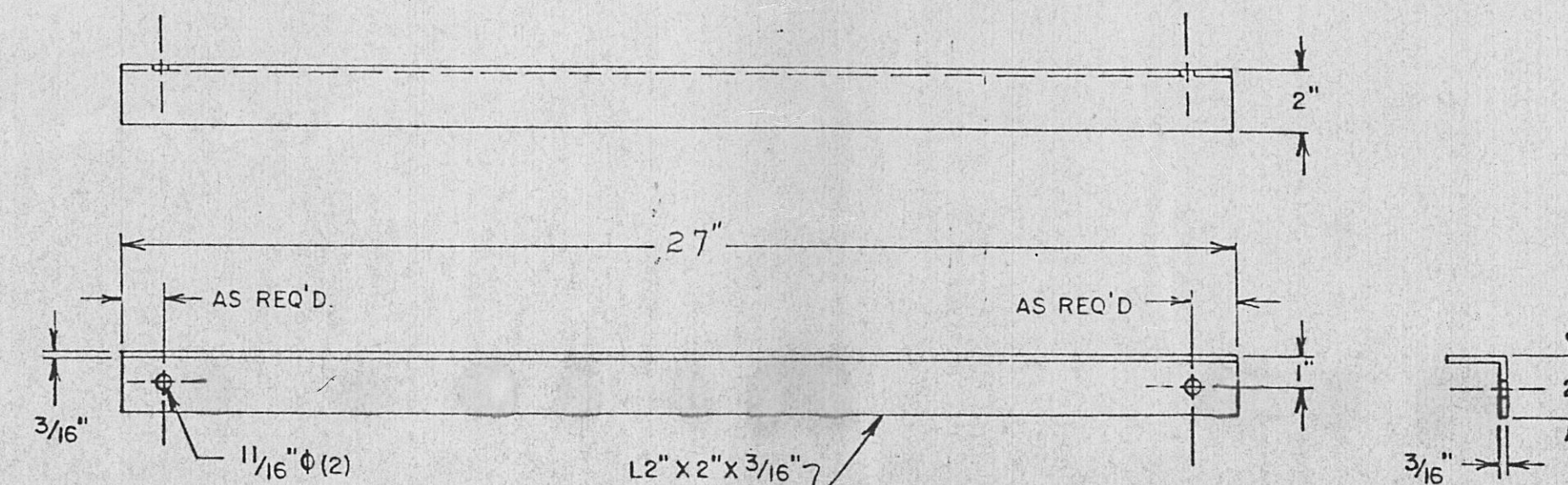
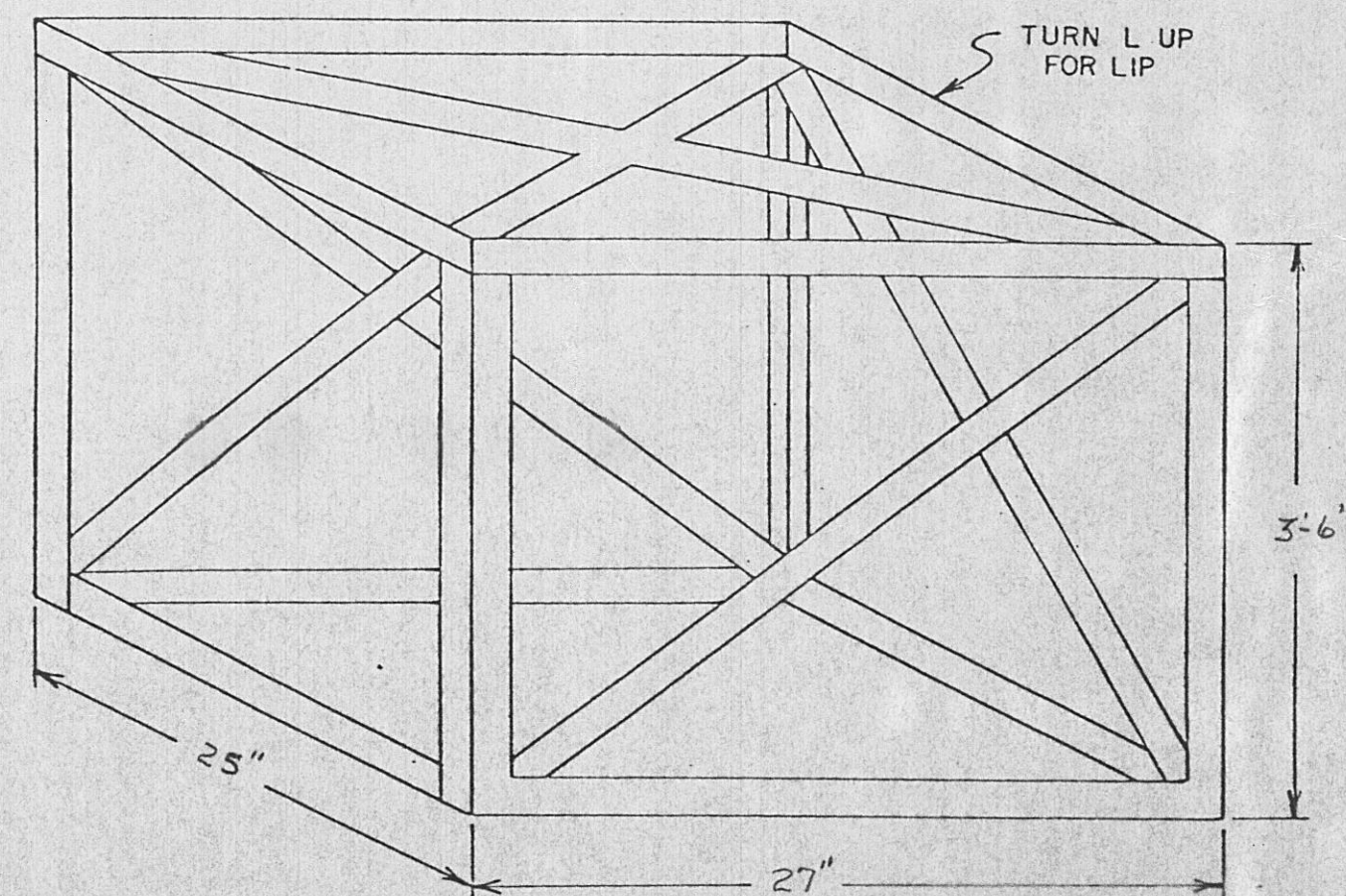




BB = 5/8" x 4 1/2"  
GMB W/H.N.,  
F & L.W.  
BA = 2" x 2" x 3/16"  
GALV. ANGLE  
27" LG  
(SEE STR. BILL OF MAT'L.)

RB  
(SEE STR. BILL OF MAT'L.)

**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.)

ASSEMBLY # RB  
(TRANS. RISER STAND)

REVISIONS

DATE

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DATE

DRAWN

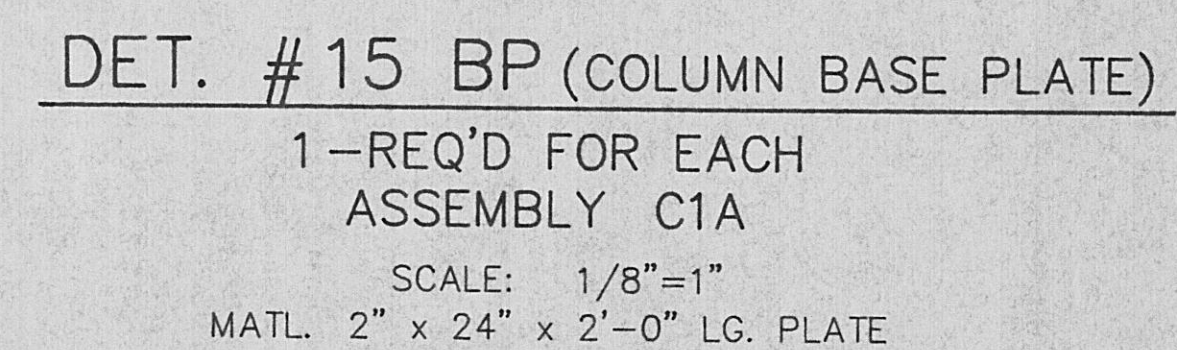
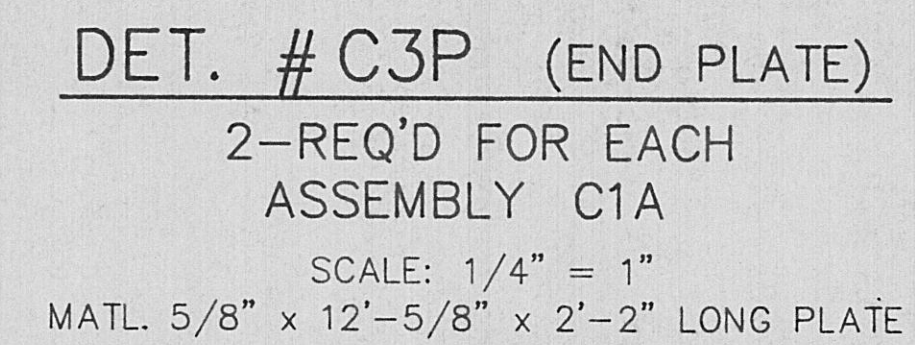
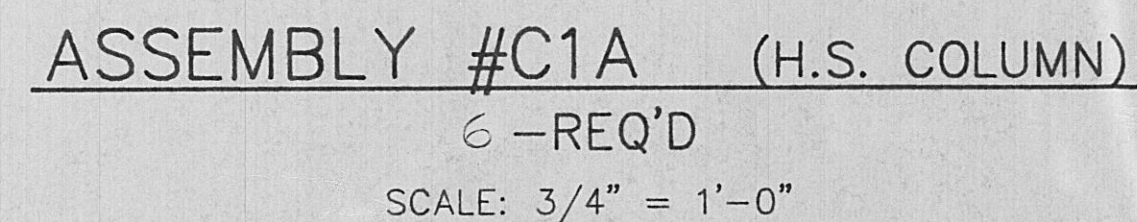
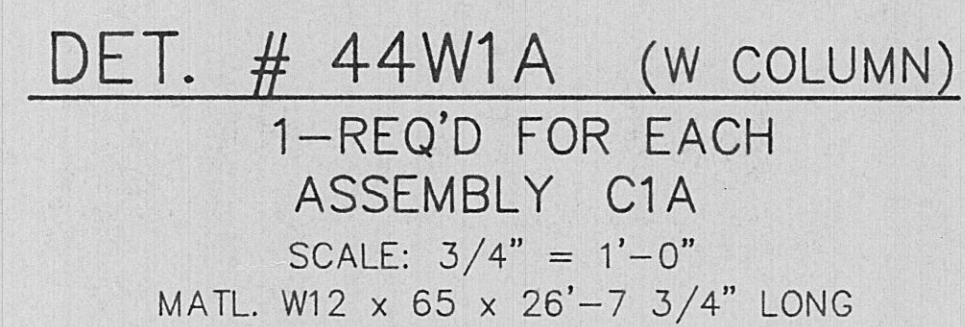
SCALE

HARRIMAN UTILITY BOARD  
BLAIR ROAD SUBSTATION  
STRUCTURAL STEEL DETAILS

SHEET  
22

OF SHEET

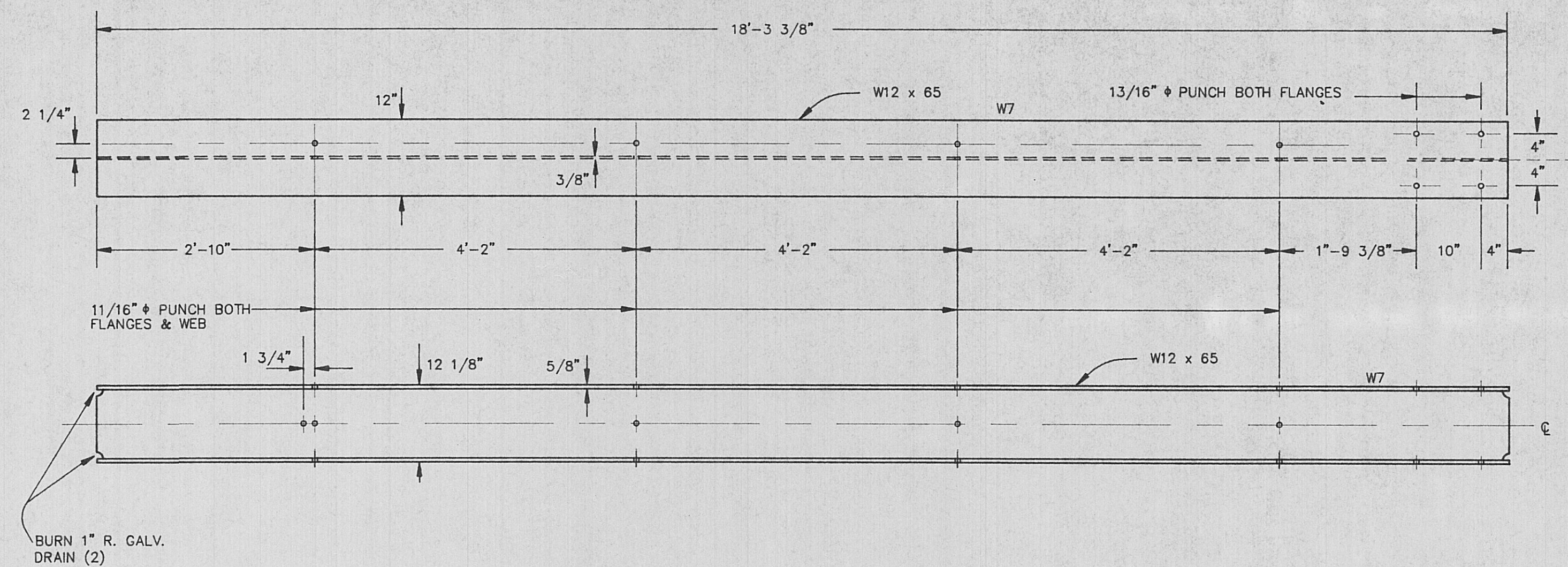






SHEET  
**3**  
OF SHEETS



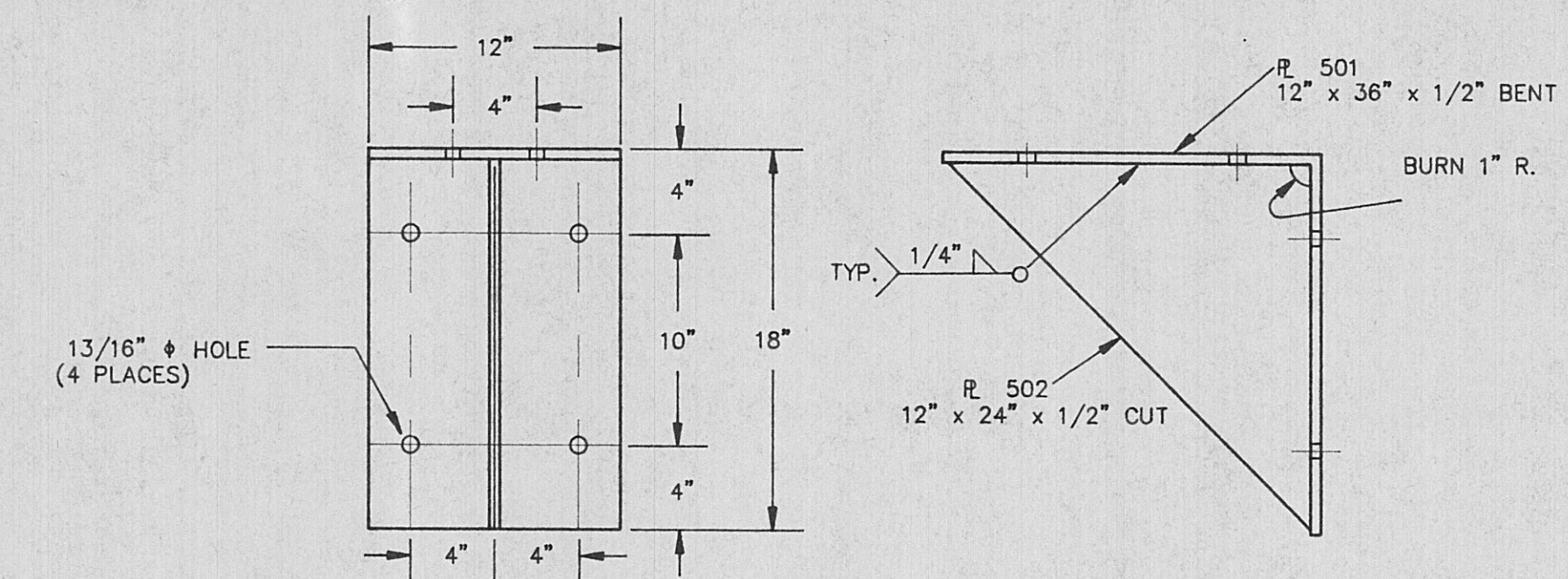
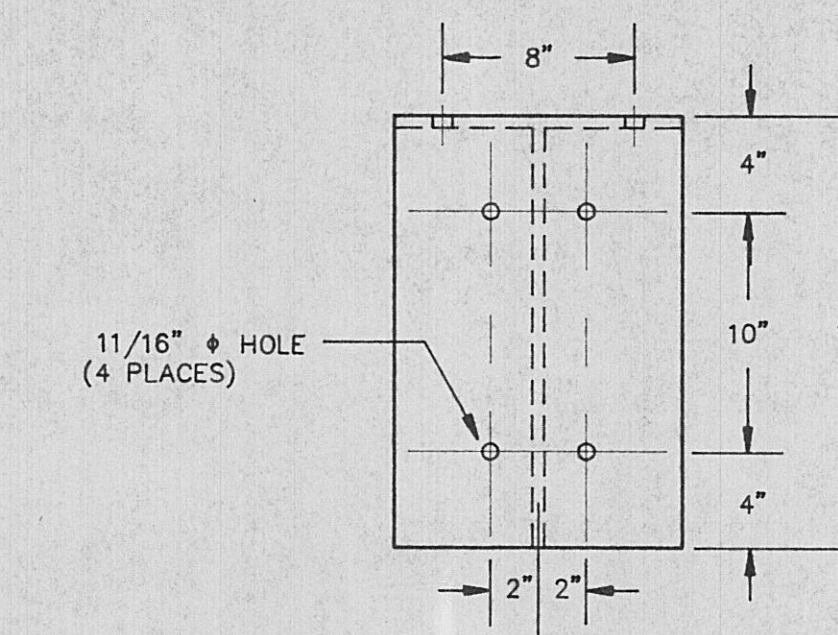


**DET. #53 W7 (W COLUMN)**

1-REQ'D FOR EACH  
ASSEMBLY C8

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

MATL. W12 x 65 x 18'-3 3/8" LONG

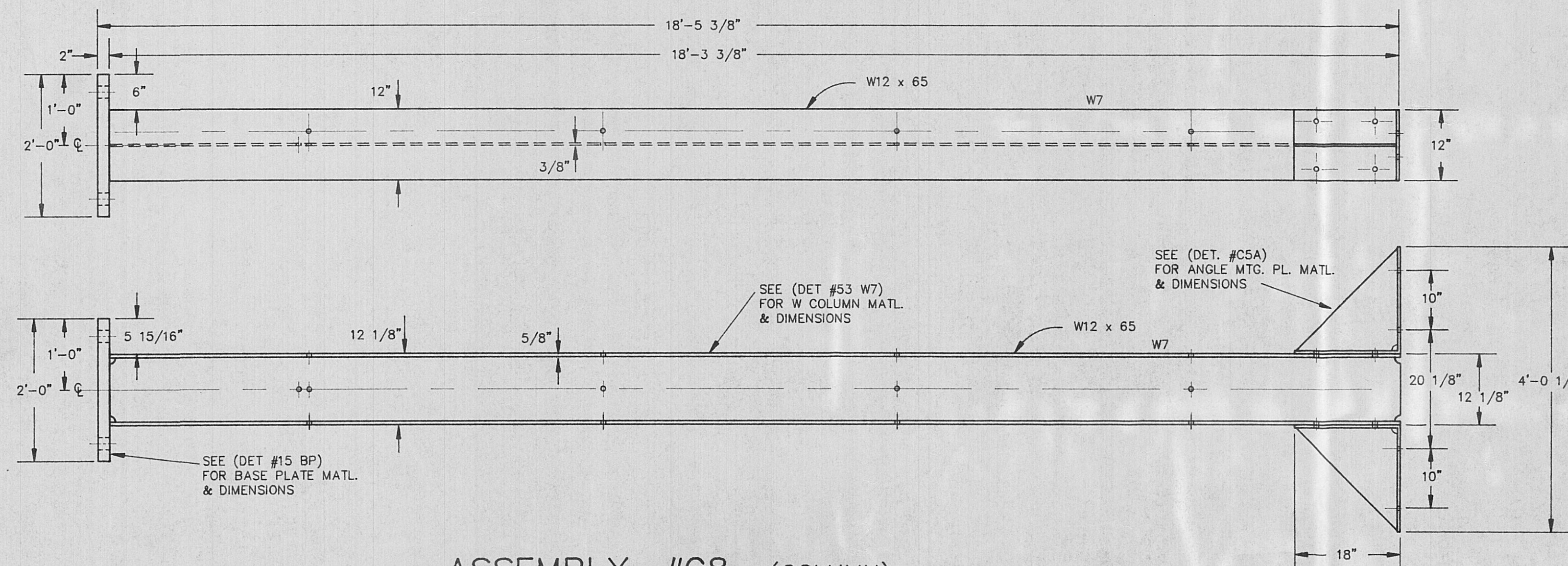


**DET. #A5A (ANGLE MTG. PL.)**

2-REQ'D FOR EACH  
ASSEMBLY C8

SCALE: 1/8" = 1"

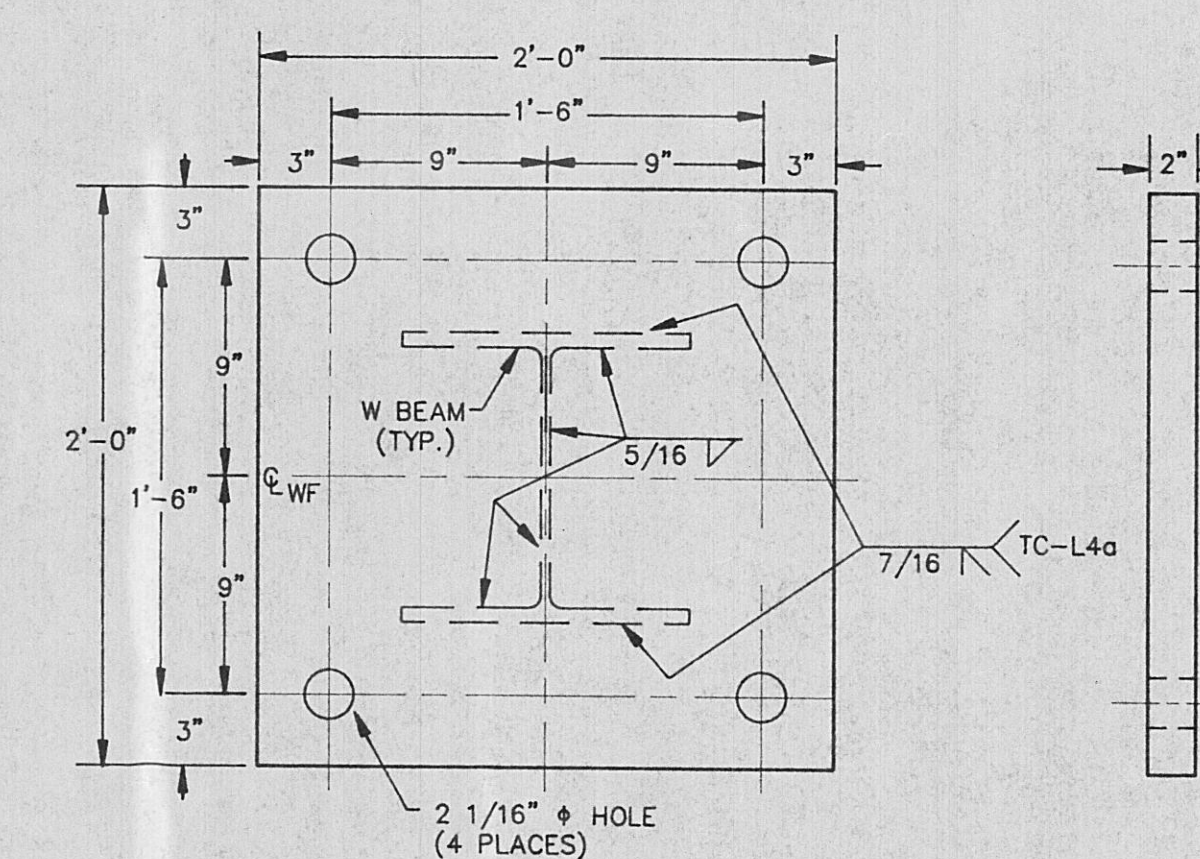
MATL. 12" x 36" x 1/2" (R. 501-BENT)  
12" x 24" x 1/2" (R. 502 CUT)



**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

ASSEMBLY #C8  
H.S. TR. SW. COLUMN

REVISIONS

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DATE: 6-8-94

DRAWN: B.C.

SCALE: NOTED

HARRIMAN UTILITY BOARD

BLAIR ROAD SUBSTATION

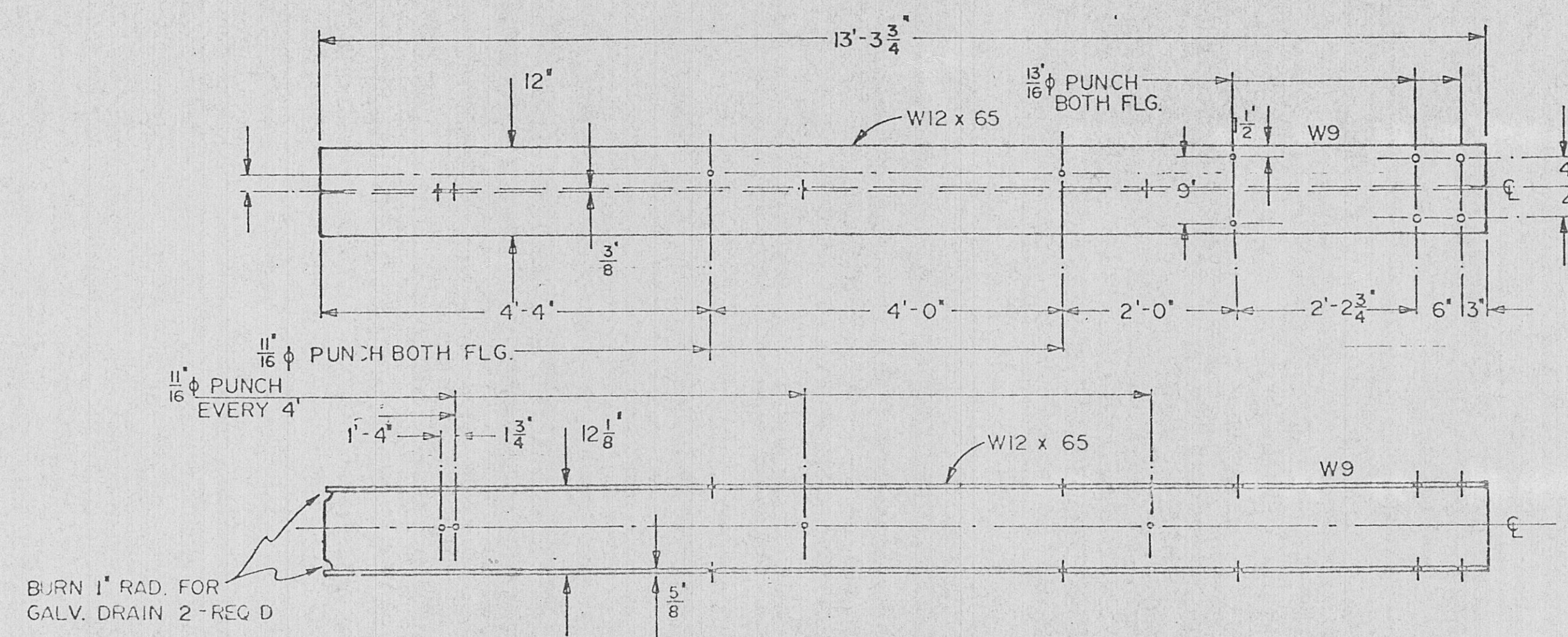
STRUCTURAL STEEL DETAILS

SHEET

4

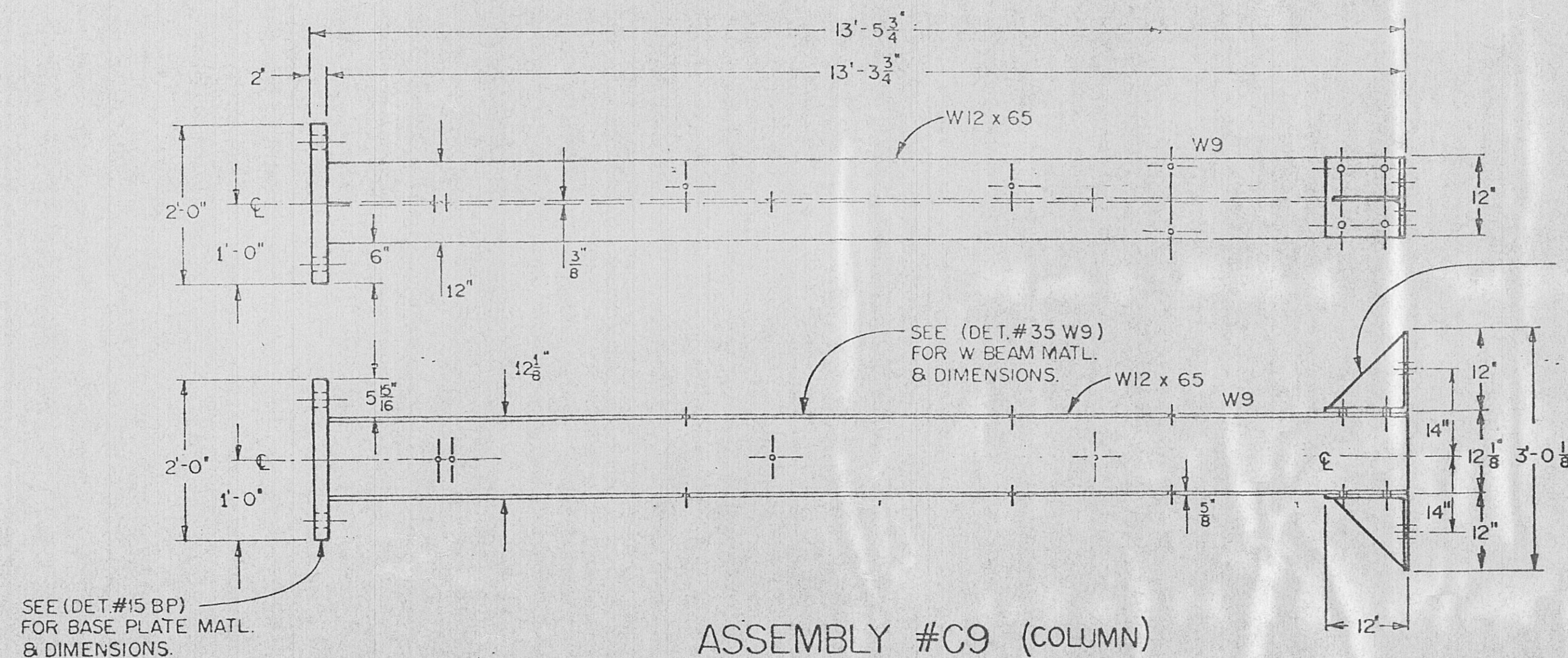
OF SHEETS





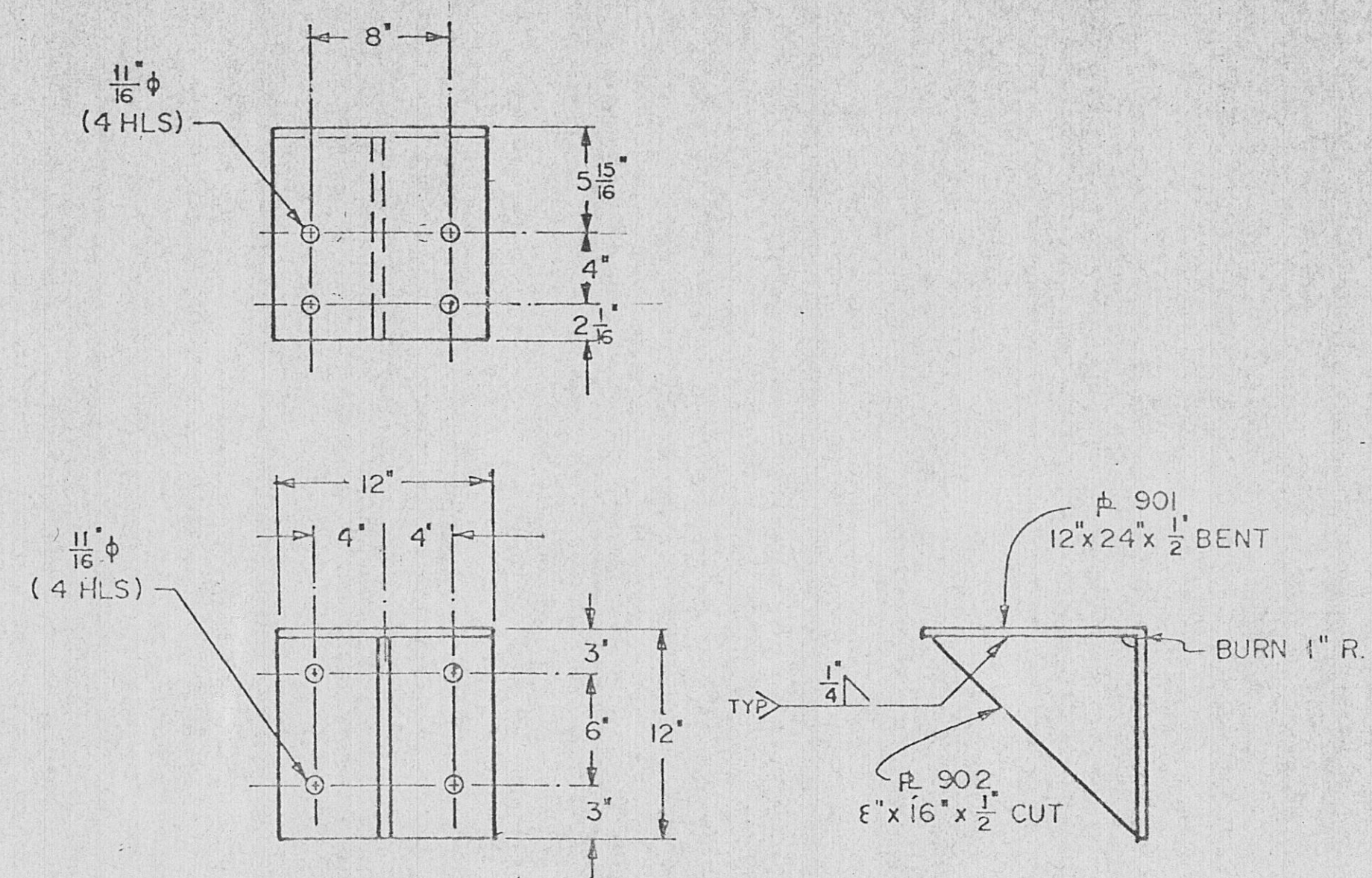
DET. #35 W9 (COLUMN W)

1-REQ'D FOR EACH  
ASSEMBLY # C9  
SCALE: 3/4" = 1'-0"  
MATL. W12 x 65 x 13'-3 3/8" LONG.



ASSEMBLY #C9 (COLUMN)

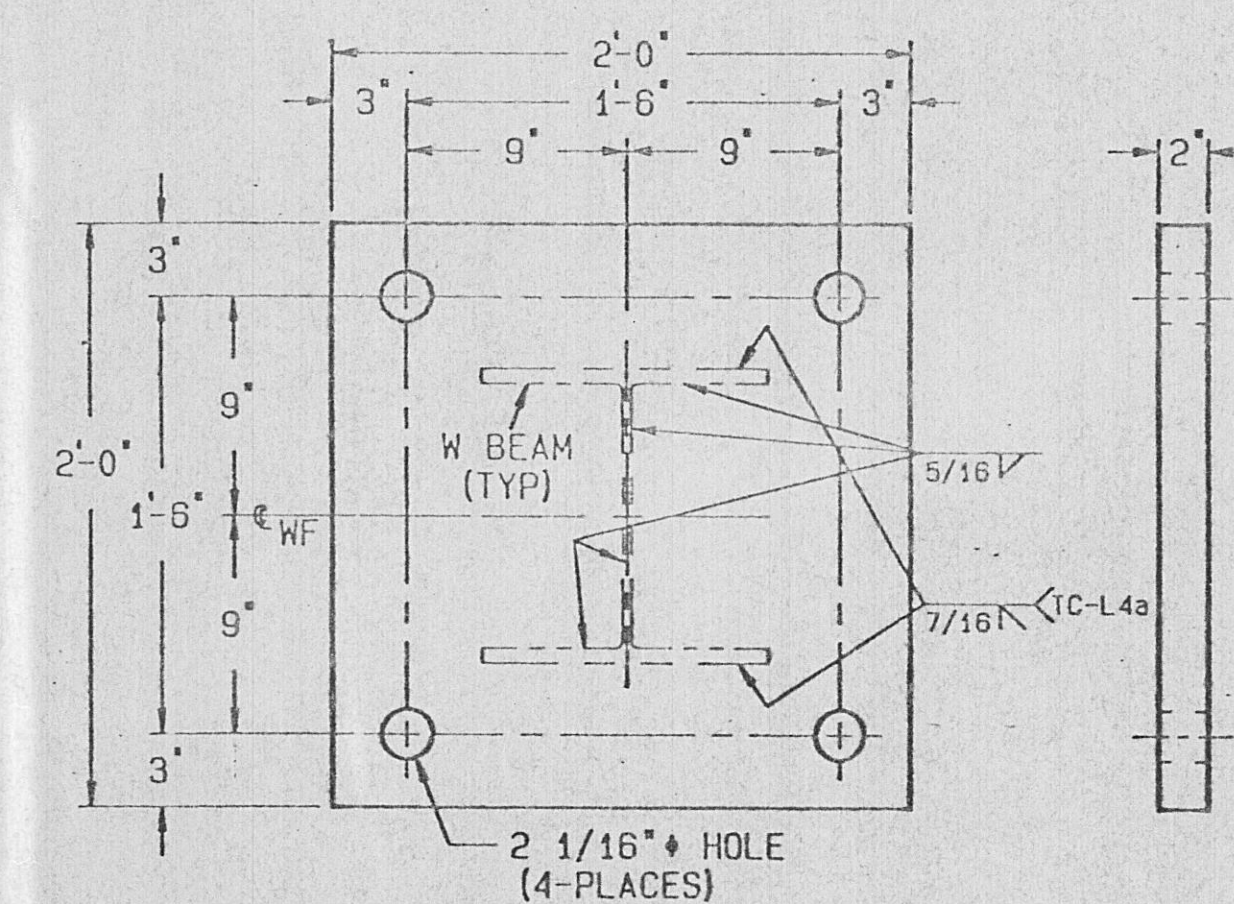
4-REQ'D  
SCALE: 3/4" = 1'-0"



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



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

ASSEMBLY #C9  
(L.S. SWITCH COLUMN)

REVISIONS

DATE

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DRAWN: B.C.

SCALE: NOTED

HARRIMAN UTILITY BOARD  
BLAIR ROAD SUBSTATION  
STRUCTURAL STEEL DETAILS

SHEET

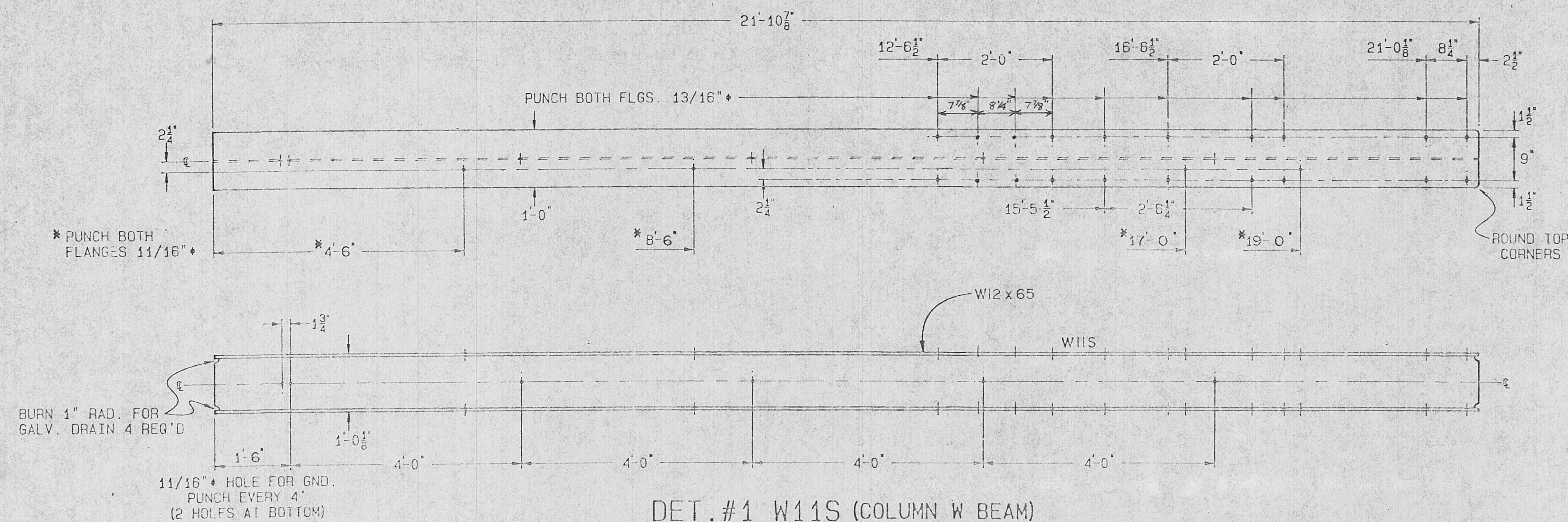
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OF SHEETS



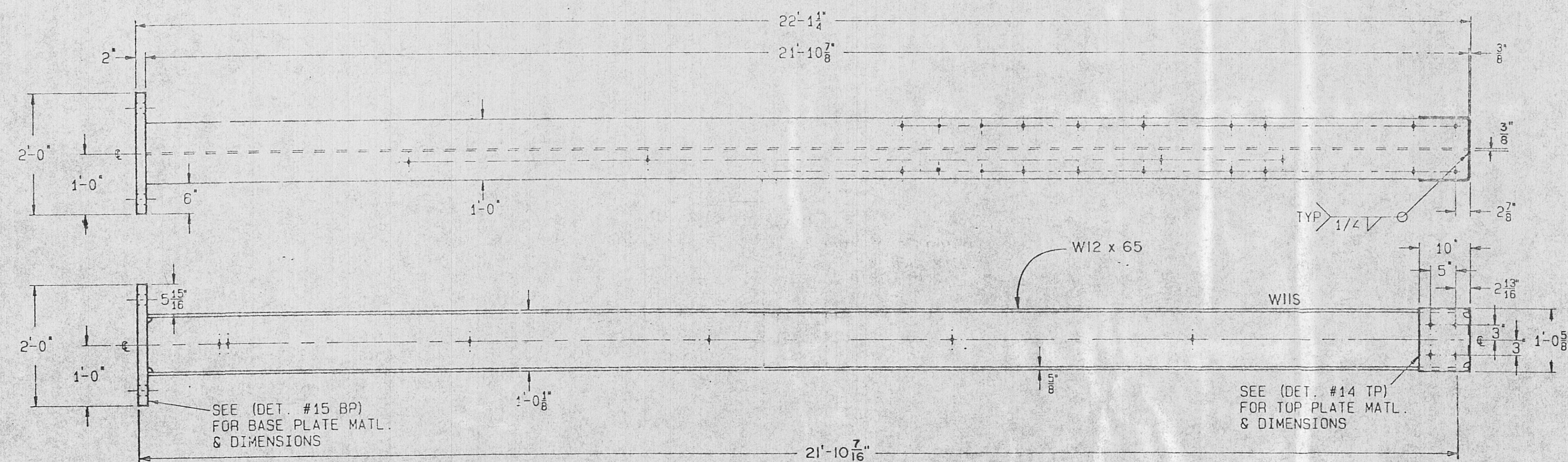
OF SHEETS





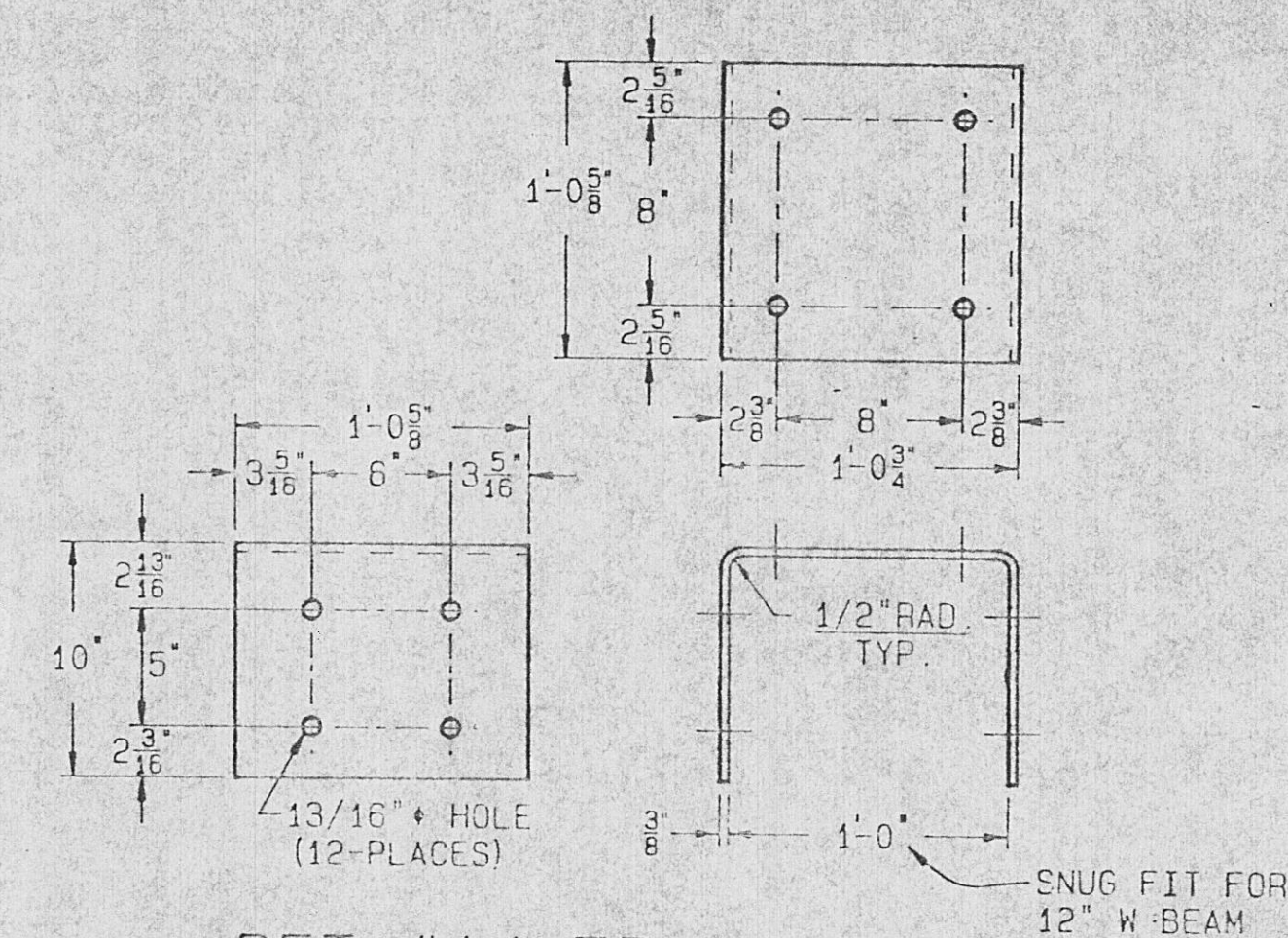
DET.#1 W11S (COLUMN W BEAM)

1 REQ'D FOR EACH  
ASSEMBLY #C11-R-SS  
SCALE: 3/4"=1'-0"  
MATL. W12 x 65 x 21'-10 7/8" LG.



ASSEMBLY #C11-R-SS (COLUMN)

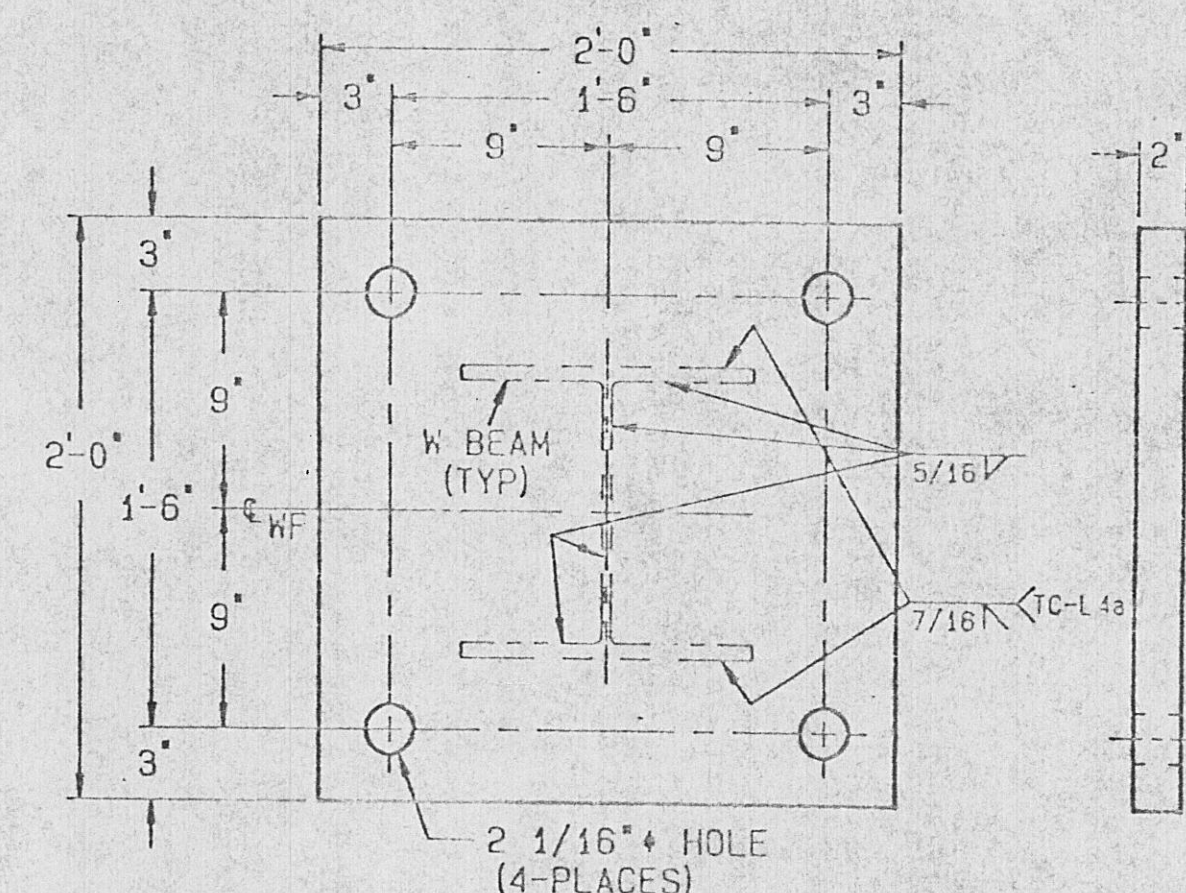
2-REQ'D  
SCALE: 3/4"=1'-0"



DET.#14 TP (TOP PLATE)

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

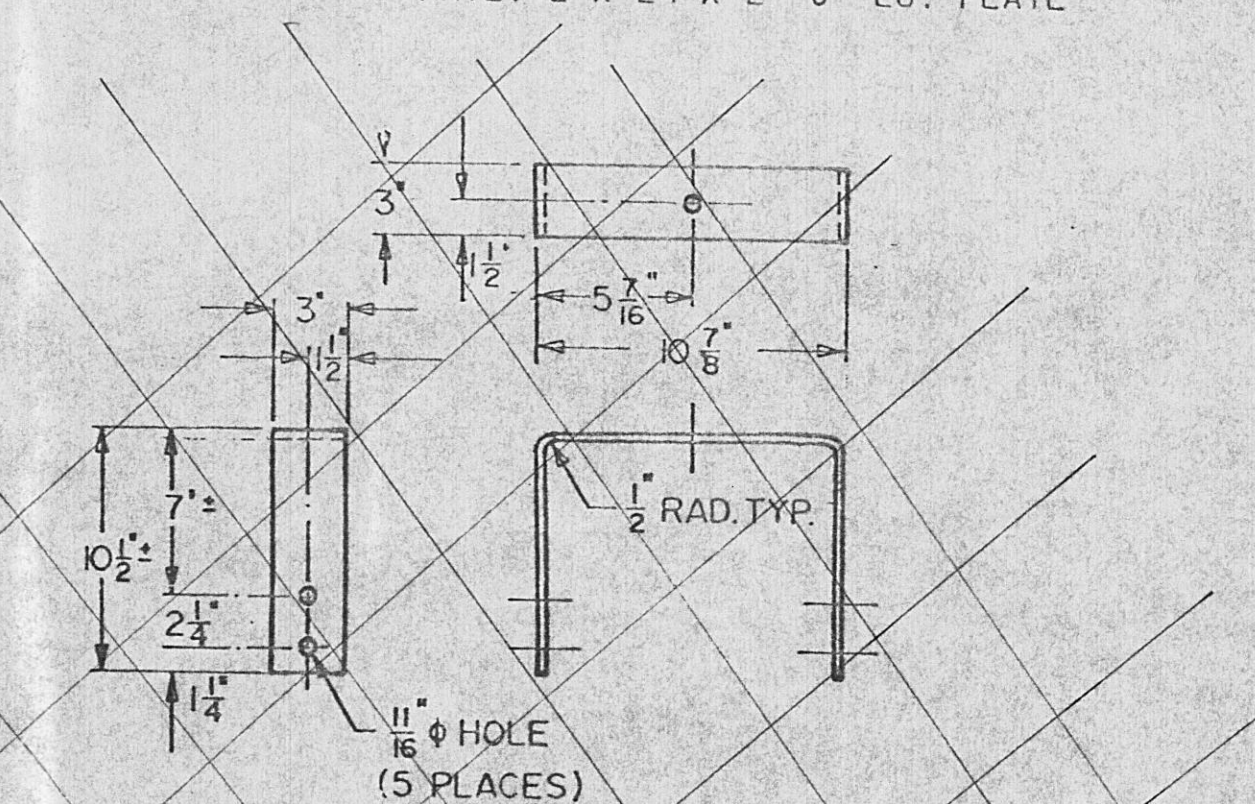
SCALE: 1/8"=1"  
MATL. 3/8 x 12 5/8 x 2'-8 3/8" LG. PLATE



DET.#15 BP (COLUMN BASE PLATE)

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

SCALE: 1/8"=1'-0"  
MATL. 3" x 2'-0 3/8" x 3/8" THICK PLATE (BENT)  
(2 ONLY REQ'D)

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

| REVISIONS | DATE |
|-----------|------|
|           |      |
|           |      |
|           |      |

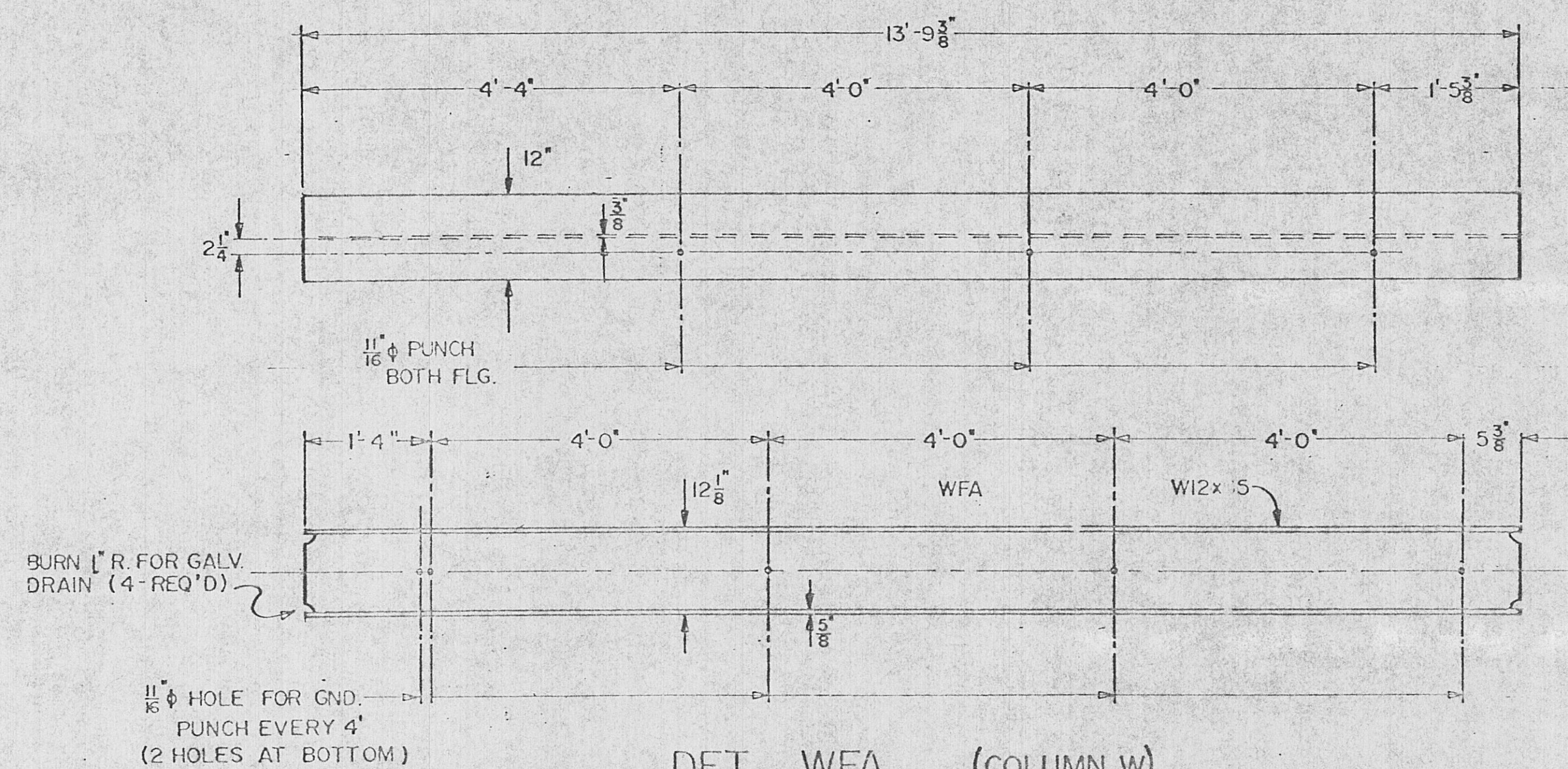
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|              |             |              |
|--------------|-------------|--------------|
| DATE: 6-8-94 | DRAWN: B.C. | SCALE: NOTED |
|--------------|-------------|--------------|

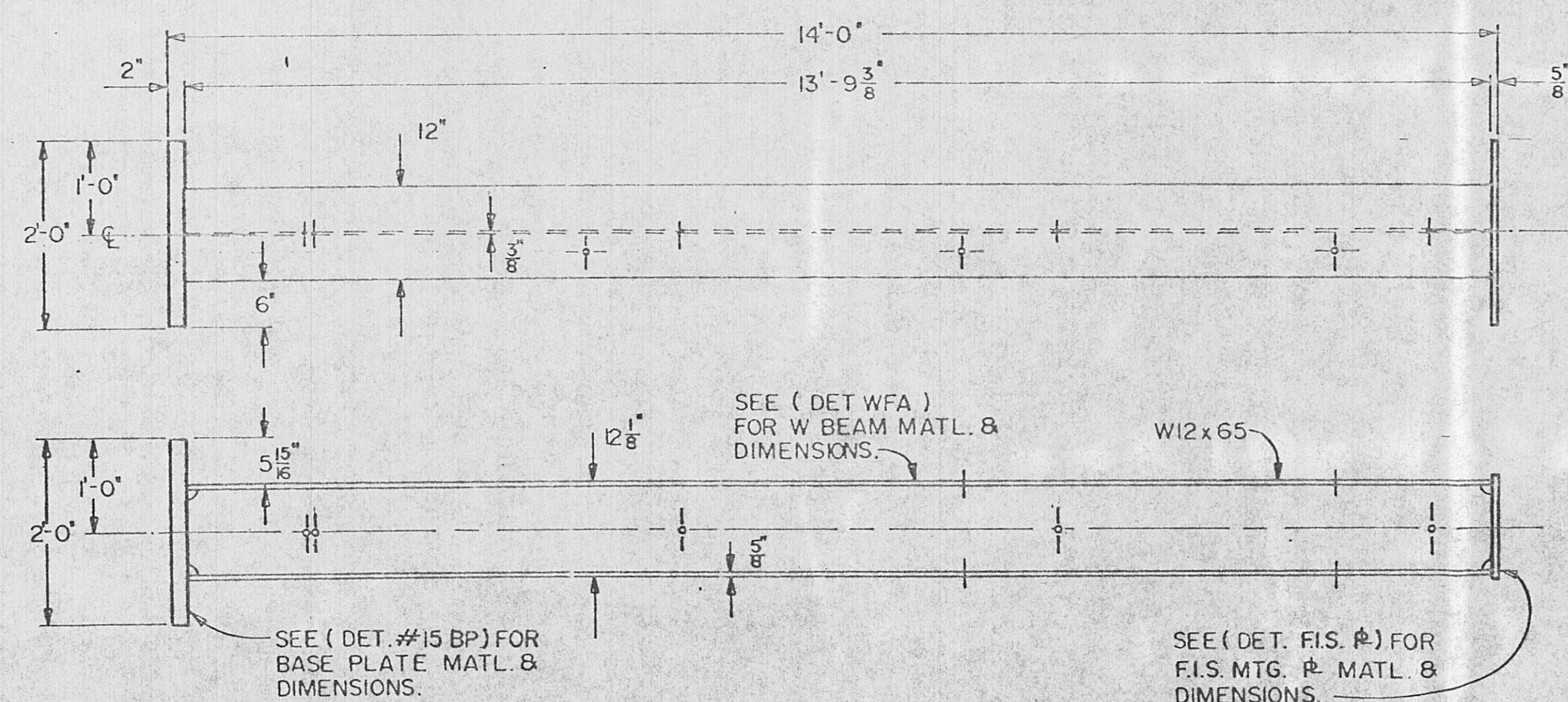
HARRIMAN UTILITY BOARD  
BLAIR ROAD SUBSTATION  
STRUCTURAL STEEL DETAILS

SHEET  
7  
OF SHEETS

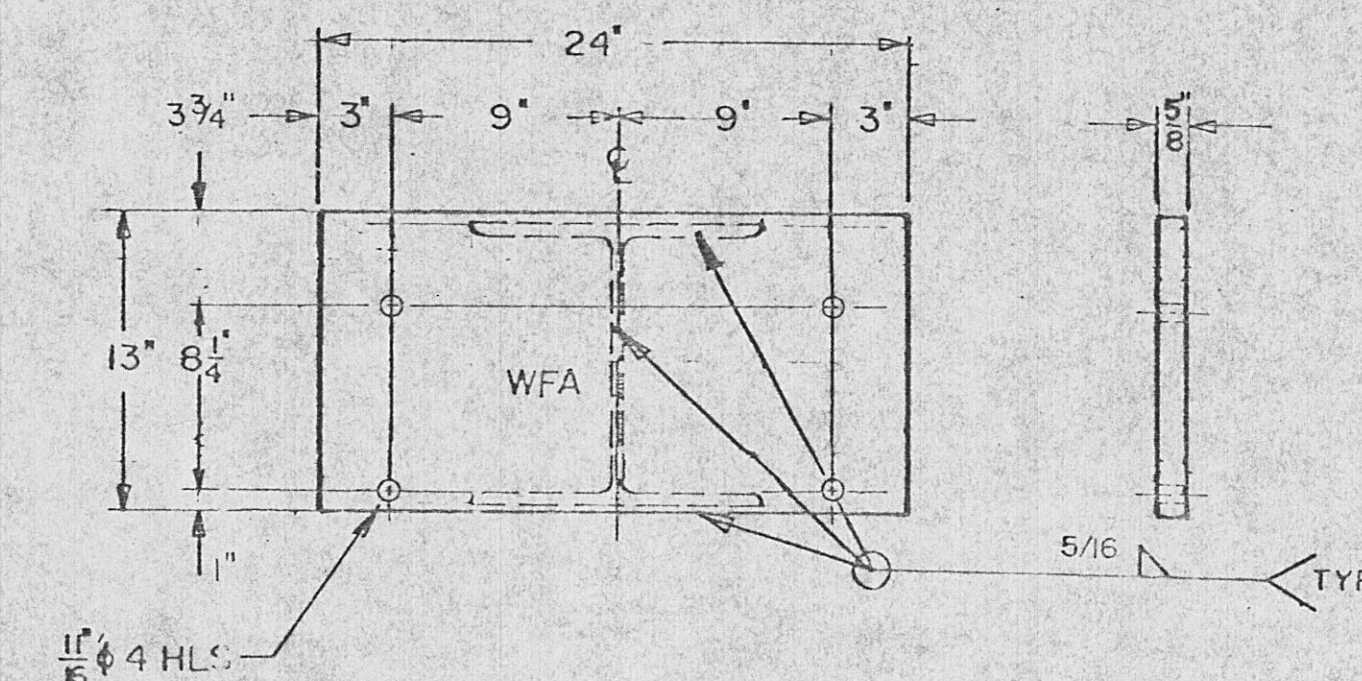




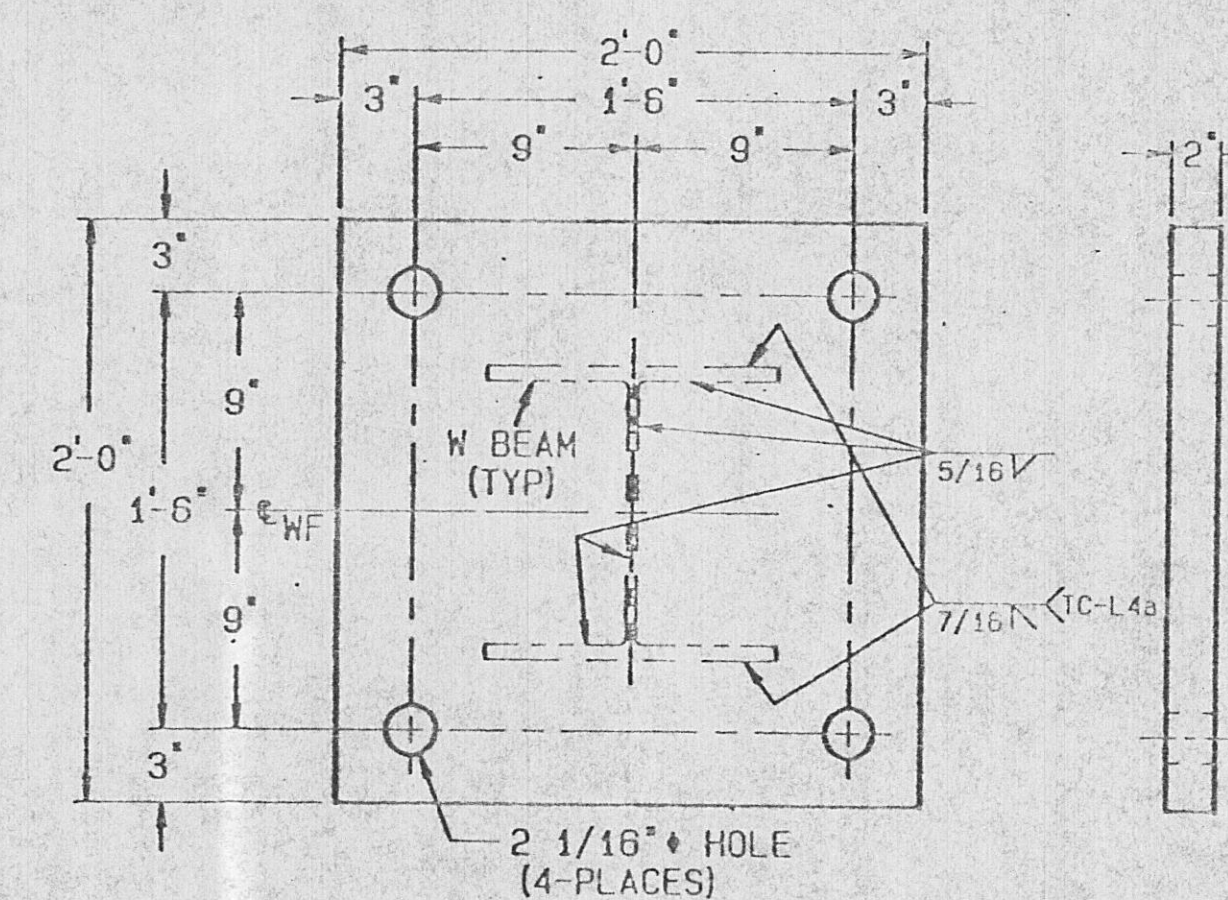
DET. WFA (COLUMN W)  
1-REQ'D FOR EACH  
ASSEMBLY # CFA  
SCALE 3/4" = 1'-0"  
MATL. W 12 x 65 x 13'-9 3/8" LONG



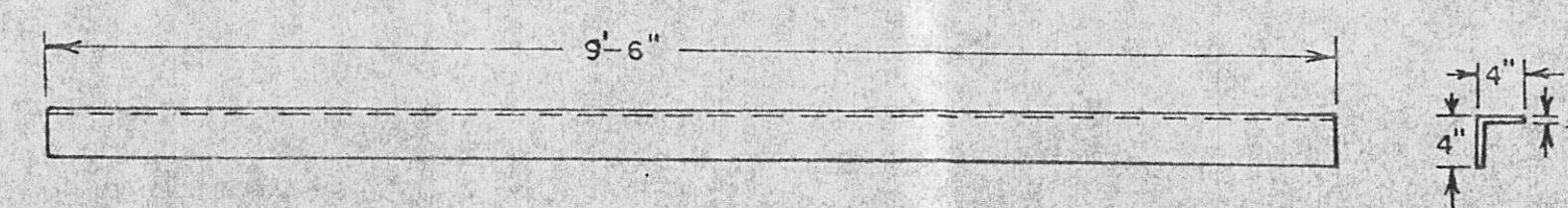
ASSEMBLY # CFA  
1-REQ'D  
SCALE: 3/4" = 1'-0"



DET. # F.I.S. # (FAULT INIT. SW. MTG. PLATE)  
1-REQ'D FOR EACH  
ASSEMBLY # CFA  
SCALE 1/8" = 1"  
MATL. 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"  
MATL. 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)

ASSEMBLY # CFA  
(FAULT INITIATING SWITCH COLUMN)