

SECTION	(A)	(B)	(1)	(2)	(3)	(4)	(5)	(6)
B1	1	24	A1	B1	A13	AA13	B13	AB13
B2	2	23	A2	B2	C13	AC13	D13	AD13
B3	3	22	A3	B3	E13	AE13	F13	AF13
B4	4	21	A4	B4	G13	AG13	H13	AH13
B5	5	20	A5	B5	I13	AI13	J13	AJ13
B6	6	19	A6	B6	K13	AK13	L13	AL13
B7	7	18	A7	B7	M13	AM13	N13	AN13
B8	8	17	A8	B8	P13	AP13	Q13	AQ13

SECTION	(C)	(D)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
B9	9	16	A9	B9	E9	G9	R13	AR13	S13	AS13
B10	10	15	A10	B10	E10	G10	T13	AT13	V13	AV13
B11	11	14	A11	B11	E11	G11	W13	AW13	X13	AX13
B12	12	13	A12	B12	E12	G12	Y13	AY13	Z13	AZ13

NOTES:  
 1. ALL DIMENSIONS ARE GIVEN HORIZONTALLY.  
 2. DENOTES CABLE WORK POINT "A".

WORK THIS SHEET WITH SHEET E2 & E3.

TOWER FRAMING PLAN

**VINCENNES STEEL CORP.**  
 VINCENNES, IND.

Drawn	Checked	Approved	Revised
RB	TRM		RB/TRM
10/5/98	10/22/98		10/22/98

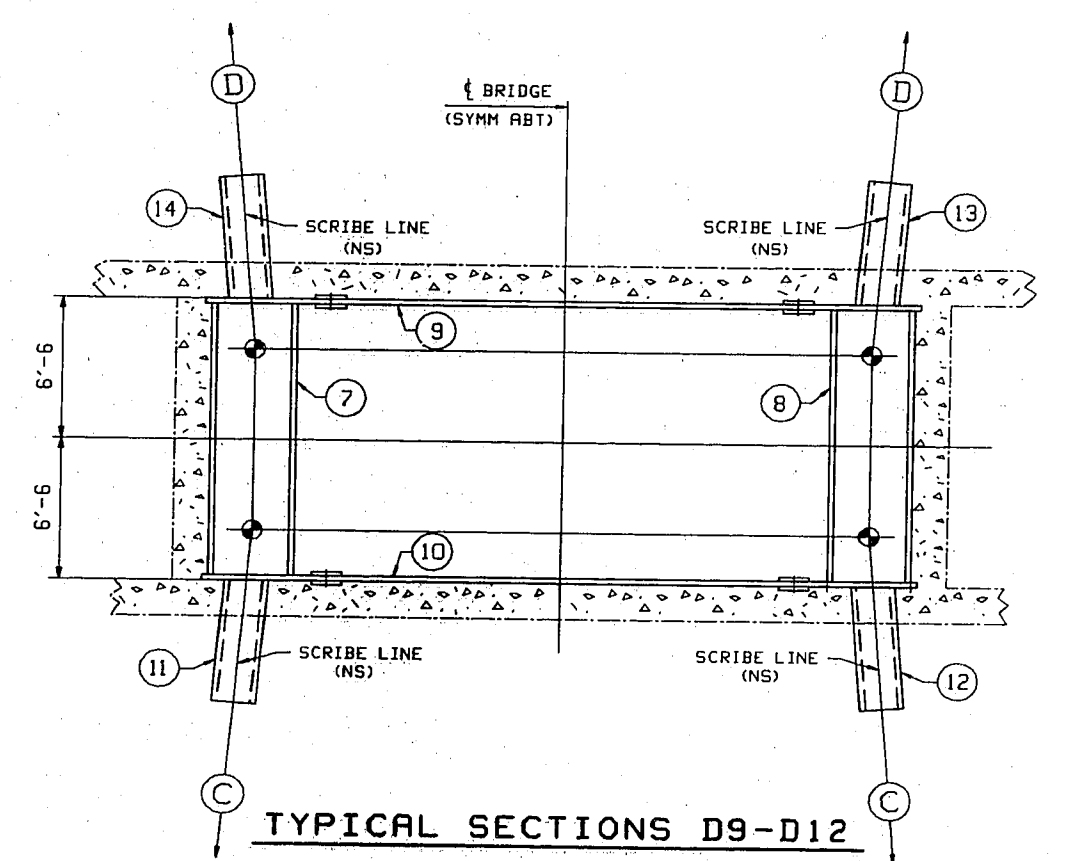
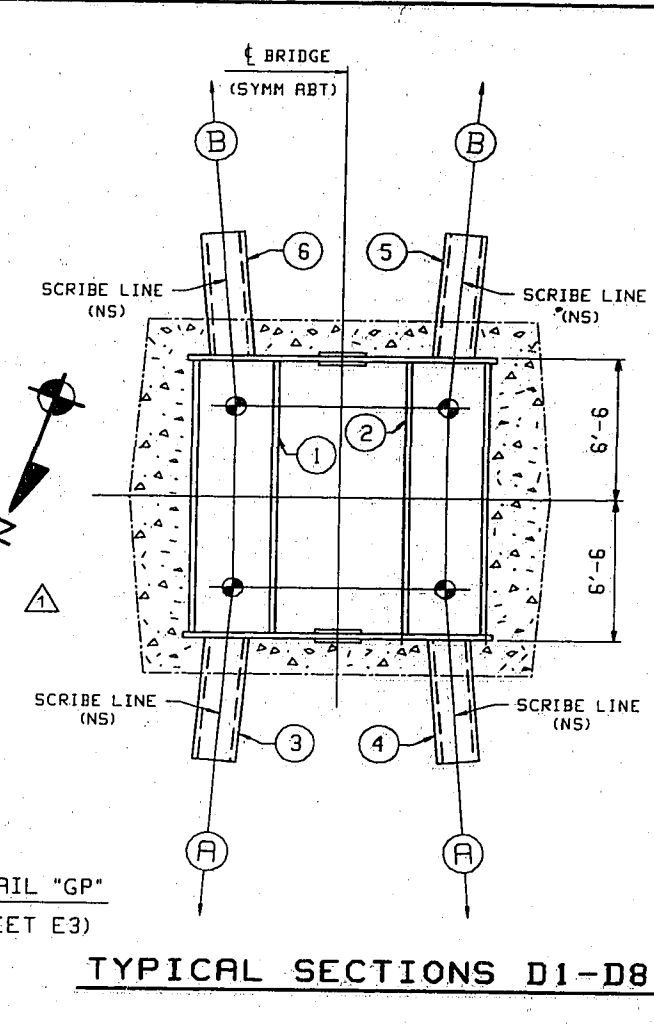
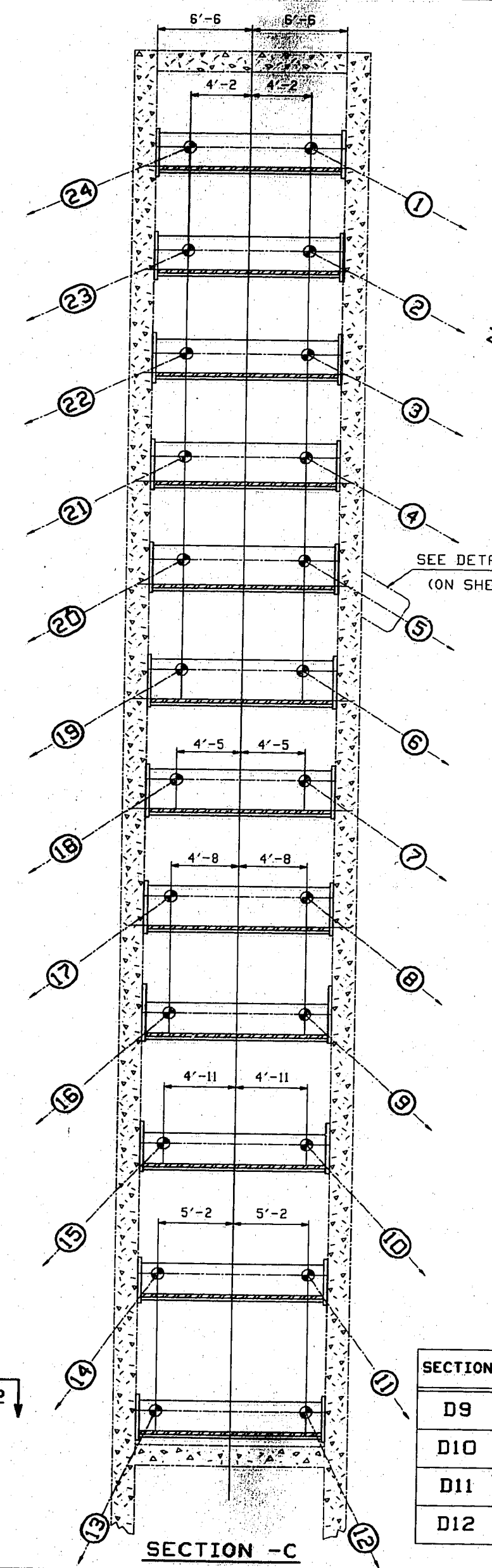
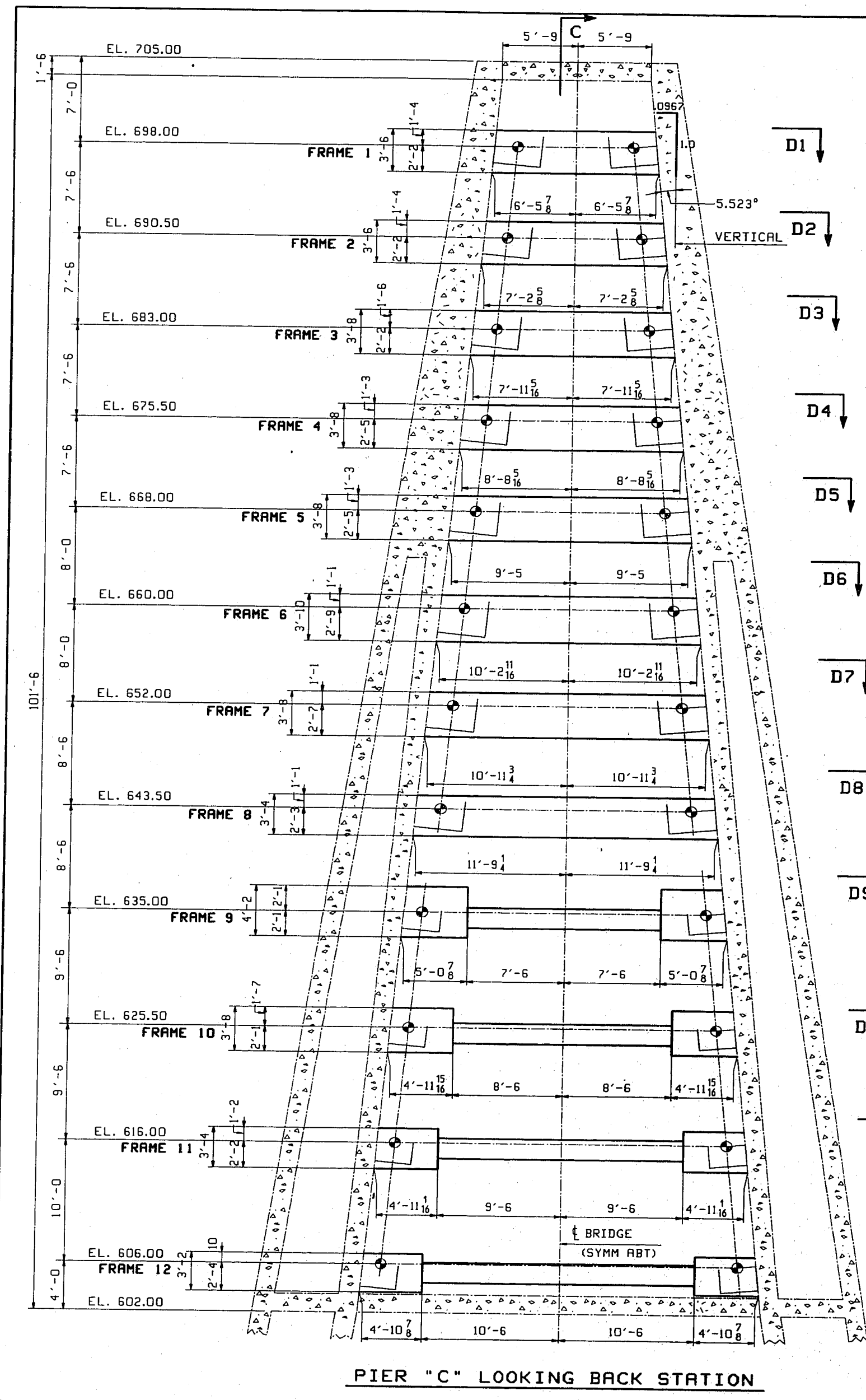
U.S. 231 OVER THE OHIO RIVER AND INDIANA 66  
 KENTUCKY D.O.H. / INDIANA D.O.T.  
 DAVIESS COUNTY, KY / SPENCER COUNTY, IND  
 PROJ. DOKBD DD101 001

Shop Point SEE GNI

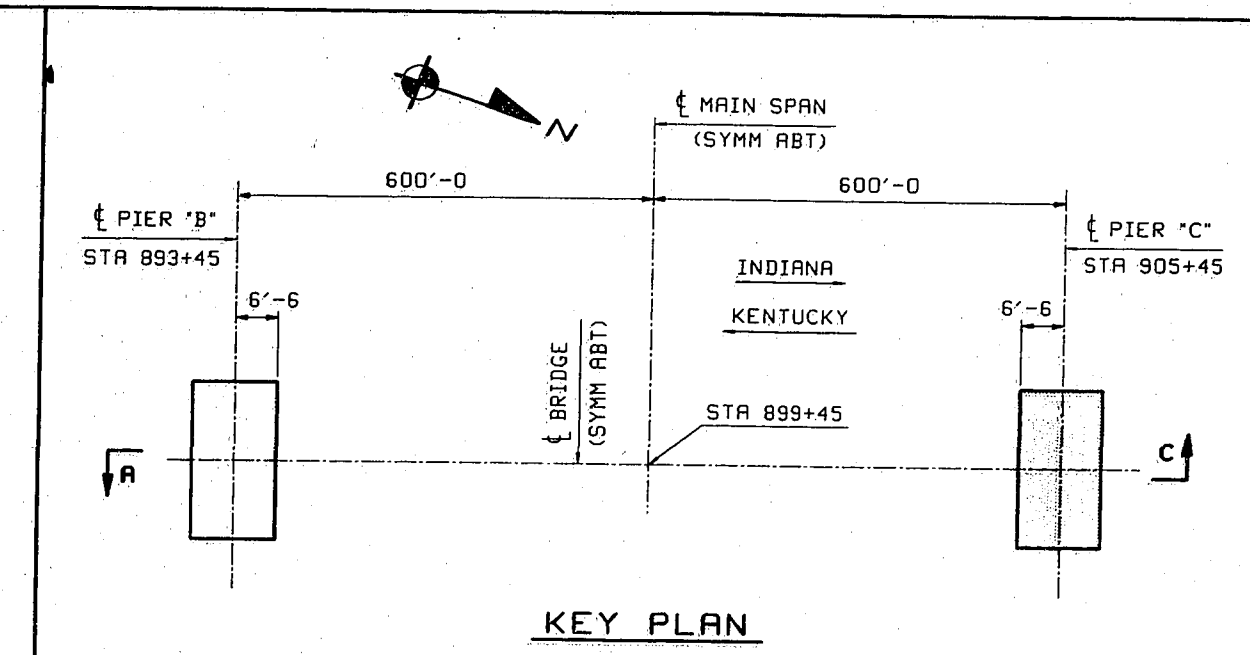
Edge Distance AS NOTED Notes: 1/2" φ (UN)

Contr. No. 671 Sh. E1 of

TENSOR 1821-1



SECTION	(A)	(B)	(1)	(2)	(3)	(4)	(5)	(6)
D1	1	24	C1	D1	A13	AA13	B13	AB13
D2	2	23	C2	D2	C13	AC13	D13	AD13
D3	3	22	C3	D3	E13	AE13	F13	AF13
D4	4	21	C4	D4	G13	AG13	H13	AH13
D5	5	20	C5	D5	I13	AI13	J13	AJ13
D6	6	19	C6	D6	K13	AK13	L13	AL13
D7	7	18	C7	D7	M13	AM13	N13	AN13
D8	8	17	C8	D8	P13	AP13	Q13	AQ13

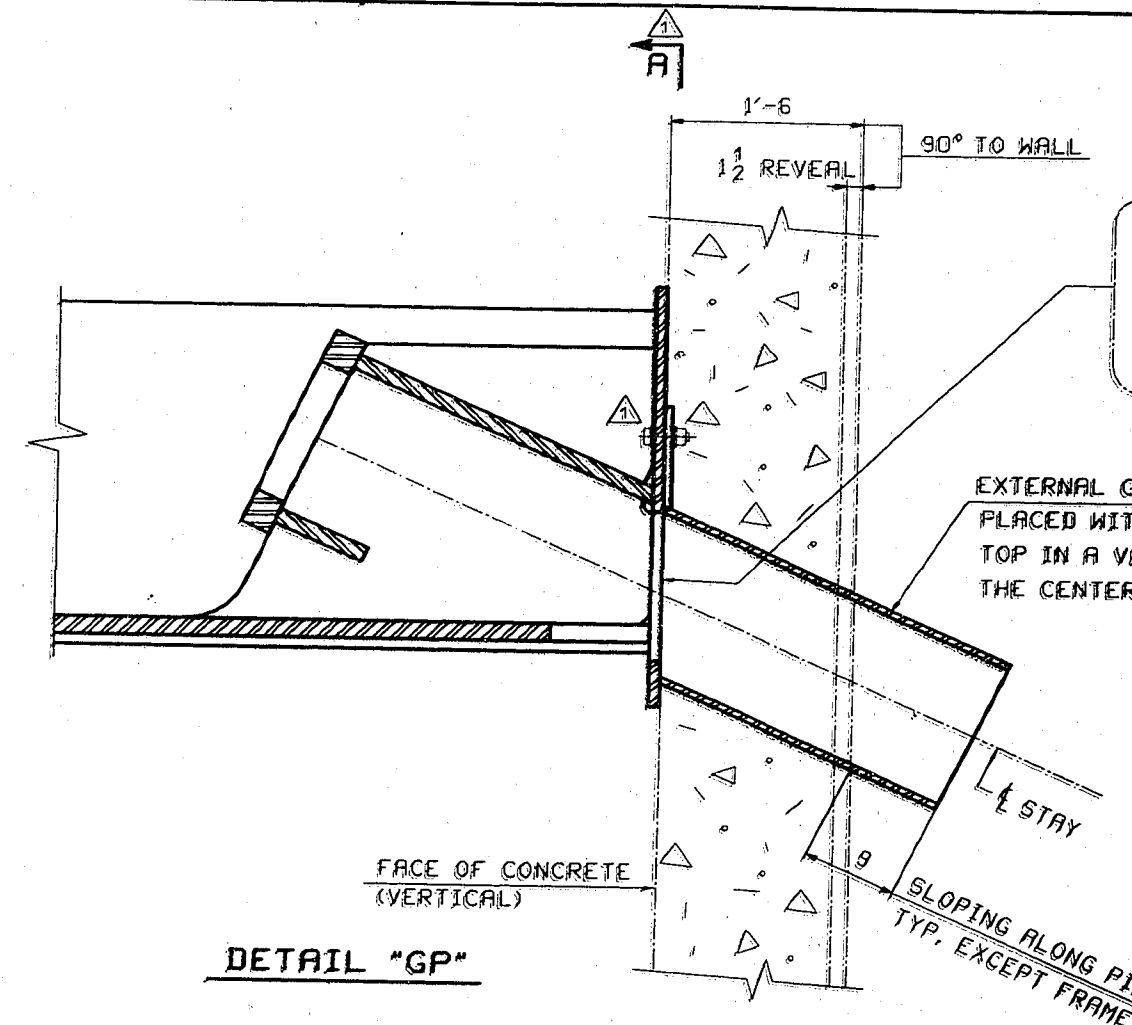


NOTES:  
 1. ALL DIMENSIONS ARE GIVEN HORIZONTALLY.  
 ⊕ - DENOTES CABLE WORK POINT "A".  
 WORK THIS SHEET WITH SHEET E1 & E3.

TOWER FRAMING PLAN			
VINCENNES STEEL CORP.			
VINCENNES, IND.			
Drawn	Checked	Approved	Revised
RB 10/5/98	TRM 10/7/98		RB/TRM 12/22/98
U.S. 231 OVER THE OHIO RIVER AND INDIANA 66			
KENTUCKY D.O.H. / INDIANA D.O.T.			
DAVIESS COUNTY, KY / SPENCER COUNTY, IND.			
PROJ. 00KBD 00101 001			
Shop Print SEE GNI			
Edge Distance AS NOTED		Holes 1/4" (LUN)	
Contr. No. 671		Sh. E2 of	

SENSOR 1821-1

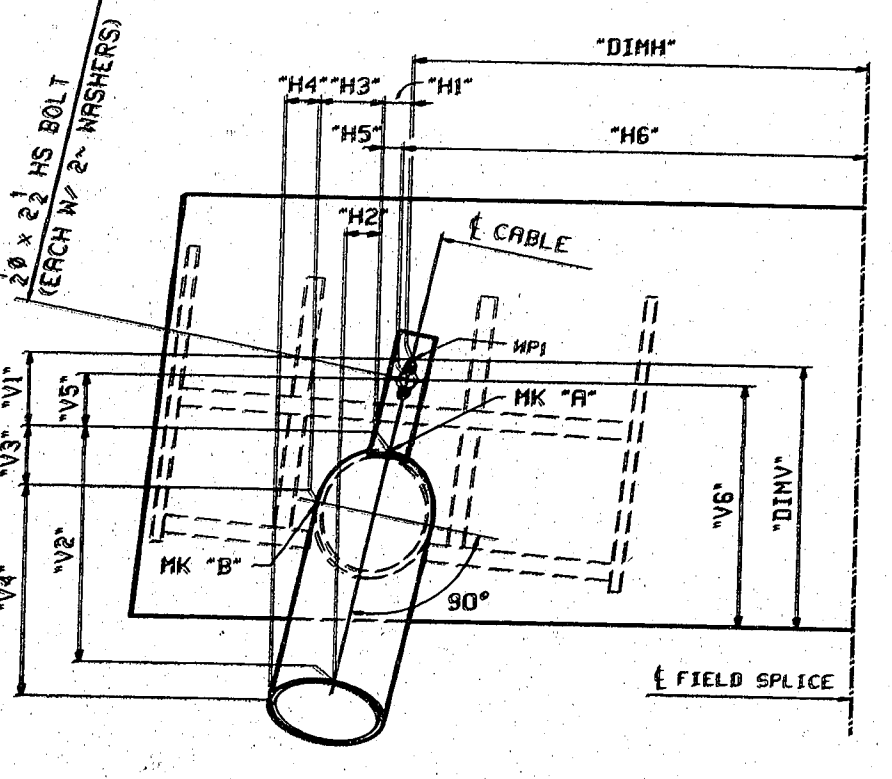




**CONTRACTOR NOTE:**  
SEAL OPENINGS BETWEEN GUIDE PIPE AND CABLE FRAME BEFORE POURING CONCRETE.

EXTERNAL GUIDE PIPES SHALL BE PLACED WITH THE SCRIBED LINE ON TOP IN A VERTICAL PLANE THROUGH THE CENTER OF THE GUIDE PIPES.

**EXT. GUIDE PIPE NOTES:**  
1. DIMENSIONS ARE TRUELY VERTICAL AND HORIZONTAL (UN).  
2. EXT. GUIDE PIPE DETAIL FOR FRAMES 1-8 AS SHOWN  
3. EXT. GUIDE PIPE DETAIL FOR FRAMES 9-12 ARE SIMILAR  
4. LEFT HALF OF TOWER IS SHOWN, RIGHT HALF IS OPPOSITE HAND.  
5. SEE SHEETS E1 & E2 FOR GUIDE PIPE MARKS.



VIEW "A" @ OUTSIDE FACE OF CABLE FRAME

FRAME	CABLE	H	V	H1	V1	H2	V2	H3	V3	H4	V4	H5	V5	H6	V6
1	1	4'-5 1/4	2'-2	3/4	6 3/16	2 3/16	1'-6 5/16	9	8 1/8	1 1/16	1'-4 3/16	5	4 1/16	4'-5 3/8	2'-0 13/16
	24	4'-5 1/4	2'-2	3/8	3	2	1'-3 7/16	10 3/16	8 11/16	1 1/4	1'-1 1/4	5	4 1/16	4'-5	2'-3 15/16
2	2	5'-2	2'-2	3/4	6 3/16	2 3/16	1'-6 5/16	9 1/16	8 1/8	1 1/16	1'-4 1/4	5	4 1/16	5'-2 3/16	2'-0 3/4
	23	5'-2	2'-2	5/8	4 5/8	2 1/16	1'-3 15/16	9 1/16	7 13/16	1 1/16	1'-2 1/4	5	4 1/16	5'-2	2'-2 5/16
3	3	5'-10 11/16	2'-2	5/8	5	2 5/16	1'-6 5/16	10 3/16	9 1/16	2	1'-4 1/4	5	4 1/16	5'-10 11/16	2'-2
	22	5'-10 11/16	2'-2	11/16	5 5/16	2 3/16	1'-4 1/8	9 1/8	7 7/8	1 5/16	1'-3	5	4 1/16	5'-10 3/16	2'-1 5/8
4	4	6'-7 3/8	2'-5	1	8 1/8	2 3/8	1'-7	7 15/16	7 3/16	2 1/8	1'-4 15/16	5	4 1/16	6'-7 13/16	2'-1 13/16
	21	6'-7 3/8	2'-5	1 1/16	6 1/8	2 7/16	1'-6 1/16	9 1/8	8	2 1/8	1'-4 1/8	11	4 1/16	6'-7 9/16	2'-3 13/16
5	5	7'-4 1/16	2'-5	1 1/8	9 3/16	2 9/16	1'-8 1/2	8	7 5/16	2 5/16	1'-6 3/16	5	4 1/16	7'-4 5/8	2'-0 13/16
	20	7'-4 1/16	2'-5	1 1/8	8 3/16	2 9/16	1'-7 1/16	8	7 7/8	2 5/16	1'-5	11	4 1/16	7'-4 1/2	2'-1 3/4
6	6	8'-1 3/8	2'-9	1 5/16	10 3/16	2 7/8	1'-10 1/4	8	7 1/2	2 1/2	1'-7 11/16	5	4 1/16	8'-2 1/16	2'-3 5/8
	19	8'-1 3/8	2'-9	1 5/16	9 7/16	2 7/8	1'-8 15/16	8 1/16	7 1/4	2 1/2	1'-6 1/16	11	4 1/16	8'-2	2'-4 1/2
7	7	8'-10 5/8	2'-7	1 1/4	9 3/4	3 1/4	2'-0 11/16	8 1/16	7 3/4	2 13/16	1'-9 5/8	5	4 1/16	8'-11 1/4	2'-2 3/16
	18	8'-10 5/8	2'-7	1 5/16	9 11/16	3 1/8	1'-10 13/16	7 3/8	6 7/8	2 13/16	1'-8 1/4	11	4 1/16	8'-11 5/16	2'-2 1/4
8	8	9'-8 9/16	2'-3	1 5/16	9 7/16	3 3/8	2'-3 1/4	7 7/16	7 3/8	3 3/16	1'-11 7/8	11	4 1/16	9'-9 9/16	1'-10 1/16
	17	9'-8 9/16	2'-3	1 5/16	9 1/4	3 3/8	2'-1 15/16	7 7/16	7 3/16	3 3/16	1'-10 13/16	11	4 1/16	9'-9 1/8	1'-10 11/16
9	9	3'-5 3/8	2'-1	1 5/8	1'-0 3/16	4 1/4	2'-7 13/16	7 1/2	7 15/16	3 11/16	2'-3 9/16	11	4 1/16	3'-6 3/8	1'-5 3/4
	16	3'-5 3/8	2'-1	1 5/8	11 1/16	4 1/4	2'-6 1/2	7 1/2	7 11/16	3 3/4	2'-2 1/2	11	4 1/16	3'-5 1/16	1'-6 3/8
10	10	3'-4 7/16	2'-1	1 11/16	1'-0 3/16	5 5/16	3'-2 9/16	7 5/8	8 13/16	4 9/16	2'-9	11	4 1/16	3'-5 7/16	1'-5 13/16
	15	3'-4 7/16	2'-1	1 11/16	11 5/16	5 5/16	3'-1 15/16	7 11/16	8 9/16	4 9/16	2'-8	11	4 1/16	3'-5 3/8	1'-5 5/16
11	11	3'-3 1/2	2'-2	2	1'-2 1/4	6 1/4	3'-11 3/4	6 11/16	8 5/8	5 13/16	3'-5 1/16	11	4 1/16	3'-4 13/16	1'-4 11/16
	14	3'-3 1/2	2'-2	2	1'-1 13/16	6 1/4	3'-10 9/16	6 11/16	8 1/16	5 13/16	3'-4 1/16	11	4 1/16	3'-4 3/4	1'-5 1/8
12	12	3'-1 5/8	2'-4	2 15/16	1'-8 1/8	5 15/16	3'-4 3/4	8 9/16	1'-2 5/8	4	2'-3 3/4	11	4 1/16	3'-5 5/16	1'-0 13/16
	13	3'-1 5/8	2'-4	2 15/16	1'-7 3/4	6 1/16	3'-5 1/16	8 9/16	1'-2 3/8	4 3/16	2'-4 1/16	3	4 1/16	3'-5 1/4	1'-1 13/16

**FIELD BOLTS LIST**

LINE	NO. REQ'D.	TYPE	THICKNESS OF PCS. CONNECTED	REMARKS
1				FIELD SPLICES
2	392	A325 TYPE 1	1/2	FRAMES #1,2,3,4,5,7,8
3	64	A325 TYPE 1	1/2	FRAMES #6
4	256	A325 TYPE 1	1/2	FRAMES #9,10,11,12
5				
6	96	A307	3/8	A307 ERECTION BOLT @ GUIDE PIPE
7				

WASHER CODES: 1: 1 Hard Flat Washer, 2: 2 Hard Flat Washer

**FIELD BOLTS SUMMARY**

LINE	NO. OF BOLTS	TYPE	THICKNESS OF PCS. CONNECTED	REMARKS
1	726	A325 TYPE 1	3/4	(GALVANIZED)
2				
3	726	Hard Flat Washers for 6 @ BOLT		(GALVANIZED)
4				
5	96	A307	3/8	(GALVANIZED)
6				
7	196	Washers for 1/2 @ BOLT		(GALVANIZED)

WORK THIS SHEET WITH SHEET E1 & E2.

REVISION TO ADD GUIDE PIPE SETTING INFO.

TOWER FRAMING PLAN

**VINCENNES STEEL CORP.**  
VINCENNES, IND.

Drawn	Checked	Approved	Revised
RB	TRH		ML/TRH
10/25/98	10/20/98		9/24/99

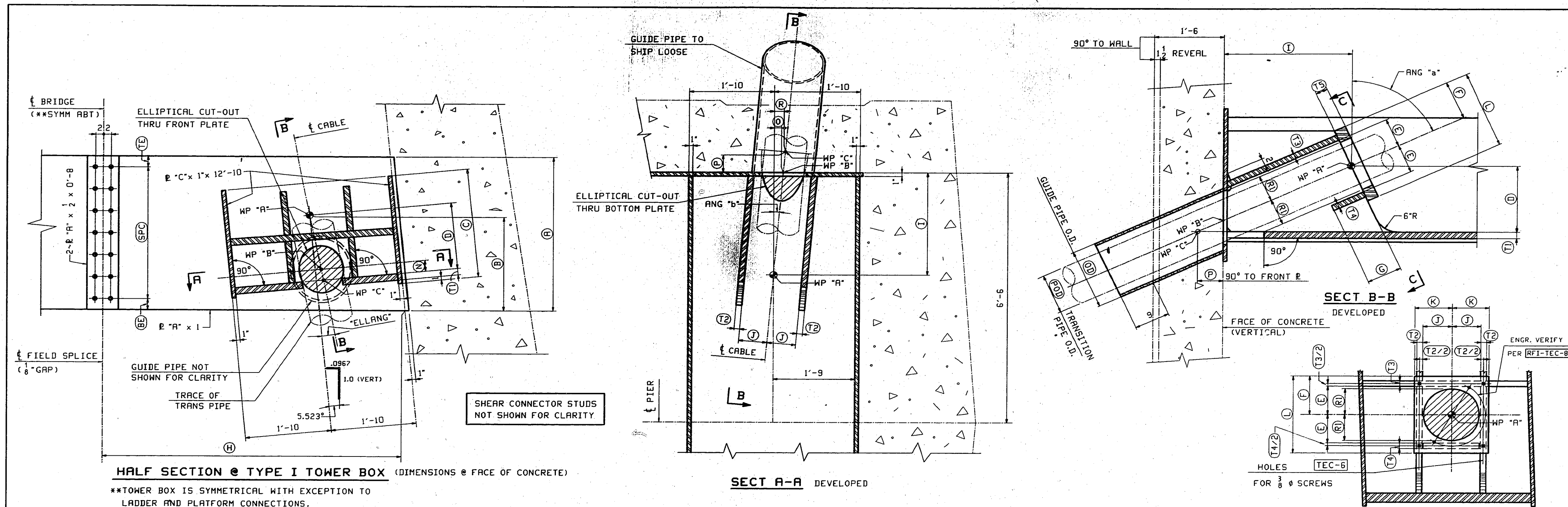
U.S. 231 OVER THE OHIO RIVER AND INDIANA 66  
KENTUCKY D.O.M. / INDIANA D.O.T.  
DAVISS COUNTY, KY. / SPENCER COUNTY, IND  
PROJ. 00KBD 0001 001

Shop Plans SEE GNI

Edge Distance AS NOTED Hole: 15/16" @ (UN)

Tensor 1821-1

Contr. No. 671 Sh. E3 of 3



HALF SECTION @ TYPE I TOWER BOX (DIMENSIONS @ FACE OF CONCRETE)

\*\*TOWER BOX IS SYMMETRICAL WITH EXCEPTION TO LADDER AND PLATFORM CONNECTIONS. (COORDINATE WITH LEWIS ENGINEERING DETAILS)

SECT A-A DEVELOPED

SECT B-B DEVELOPED

SECT C-C DEVELOPED

FRAME	(A)	(B)	(C)	(D)	(H)	(I)	(BE)	(SPC)	(TE)	(TI)	CABLE	HP "A"	HP "B"	HP "C"	ANG "a"	ANG "b"	ELLANG	(FOD)	(OD)	(E)	(F)	(G)	(J)	(K)	(L)	(R)	(N)	(O)	(P)	(R)	(T2)	(T3)	(T4)	(T5)		
1	3'-6	2'-2	2'-10	1'-6	6'-5 7/8	2'-4	3'	6 SPC @ 6" = 3'-0	3'	1 3/4	1	101	210	410	61.272°	0.724°	1.3206°	10 3/4	16"	7 1/2	10 1/4	9"	7 3/8	9 1/4	1'-10	7 1/16	2 5/8	3 3/8	4 13/16	7	1 1/2	1 1/2	1 1/2	3"		
											24	124	219	419	65.202°	0.807°	1.7461°	12 3/8	18"	8 1/2	11 1/2	10"	8 1/2	10 1/2	2'-0 1/4	7 1/16	5 1/16	3 3/8	10 15/16	9	1 3/4	1 1/2	1 1/2	1 1/2	3 1/4	
2	3'-6	2'-2	2'-10	1'-6	7'-2 5/8	2'-4	3'	6 SPC @ 6" = 3'-0	3'	1 1/2	2	102	220	420	61.216°	0.749°	1.3630°	10 3/4	16"	7 1/2	10 1/4	9"	7 3/8	9 1/4	1'-10	7 1/16	2 5/8	3 3/8	4 1/4	7	1 1/2	1 1/2	1 1/2	3"		
											23	123	229	429	64.119°	0.890°	1.8337°	10 1/2	16"	7 1/2	10 1/4	9"	7 3/8	9 1/4	1'-10	7 1/16	4 1/16	7 1/16	9 1/16	1 1/2	1 1/2	1 1/2	1 1/2	3"		
3	3'-8	2'-2	3'-0	1'-6	7'-11 5/16	2'-4	4'	6 SPC @ 6" = 3'-0	4'	1 3/4	3	103	230	430	61.413°	0.798°	1.4641°	12 3/8	18"	8 1/2	11 3/4	10"	8 1/2	10 3/4	2'-1 1/2	7 1/16	2 1/2	3 3/8	5	7	2	2	2	3 1/4		
											22	122	239	439	62.884°	0.990°	1.9325°	10 1/2	16"	7 1/2	10 1/4	9"	7 3/8	9 1/4	1'-10	7 1/16	3 11/16	1 1/2	7 1/8	5 3/8	1 1/2	1 1/2	1 1/2	1 1/2	3"	
4	3'-8	2'-5	3'-0	1'-10	8'-8 5/16	2'-4	4'	6 SPC @ 6" = 3'-0	4'	1 1/4	4	104	240	440	59.765°	0.897°	1.5386°	9 13/16	14"	6 1/2	8 3/4	9"	6 5/8	7 1/2	1'-7	6 1/4	5 1/16	7	9 1/4	1 1/2	1 1/2	1 1/2	1 1/2	3"		
											21	121	249	449	61.353°	1.104°	2.0200°	10 1/2	16"	7 1/2	10 1/4	10"	7 3/8	9	1'-9 1/4	7 1/16	6 1/16	9 1/16	1'-0 1/4	3 1/4	1 1/4	1 1/4	1 1/4	1 1/4	3"	
5	3'-8	2'-5	3'-0	1'-10	9'-5	2'-4	4'	6 SPC @ 6" = 3'-0	4'	1"	5	105	250	450	58.022°	1.038°	1.6620°	9 13/16	14"	6 1/2	9"	9"	6 5/8	8"	1'-7 1/2	6 1/4	4 1/2	2	7 3/8	5	1 1/4	1 1/4	1 1/4	1 1/4	3"	
											20	120	259	459	59.648°	1.253°	2.1386°	9 13/16	14"	6 1/2	9"	9"	6 5/8	8"	1'-7 1/4	6 1/4	5 5/8	5	9 9/16	13/16	1 1/4	1 1/4	1 1/4	1 1/4	3"	
6	3'-10	2'-9	3'-2	2'-2	10'-2 11/16	2'-4	2'	7 SPC @ 6" = 3'-6	2'	1"	6	106	260	460	55.992°	1.218°	1.8045°	9 13/16	14"	6 1/2	8 1/2	9"	6 5/8	7 1/2	1'-7	6 1/4	7 5/8	8	10 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	3"	
											19	119	269	469	57.492°	1.428°	2.2394°	9 13/16	14"	6 1/2	8 1/2	9"	6 5/8	7 1/2	1'-7	6 1/4	8 1/16	11 1/16	1'-0 1/16	1"	1"	1"	1"	1"	3"	
7	3'-8	2'-7	3'-0	2'-0	10'-11 3/4	2'-1	4'	6 SPC @ 6" = 3'-0	4'	1"	7	107	270	470	53.417°	1.448°	1.9500°	9 13/16	14"	6 1/2	9"	10"	6 5/8	8"	1'-6 1/2	6 1/4	5 1/16	5	7 5/8	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	3"	
											18	118	279	479	54.881°	1.662°	2.3615°	8 5/8	12 1/2	6 1/4	9"	10"	6 1/8	8"	1'-6 3/4	5 3/4	6 7/16	3 1/4	9 1/8	1"	1 1/4	1 1/4	1 1/4	1 1/4	3"	
8	3'-4	2'-3	2'-8	1'-8	11'-9 1/4	1'-10	2'	6 SPC @ 6" = 3'-0	2'	1"	8	108	280	480	50.272°	1.758°	2.1141°	8 5/8	12 1/2	6 1/4	9 1/4	9"	6 5/8	8 1/4	1'-7	5 3/4	11 1/16	11 1/16	2 1/8	3 1/4	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	3"
											17	117	289	489	51.533°	1.967°	2.4738°	8 5/8	12 1/2	6 1/4	9 1/4	9"	6 1/8	8 1/4	1'-7	5 3/4	2 1/2	3 1/4	3 1/8	7 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	3"

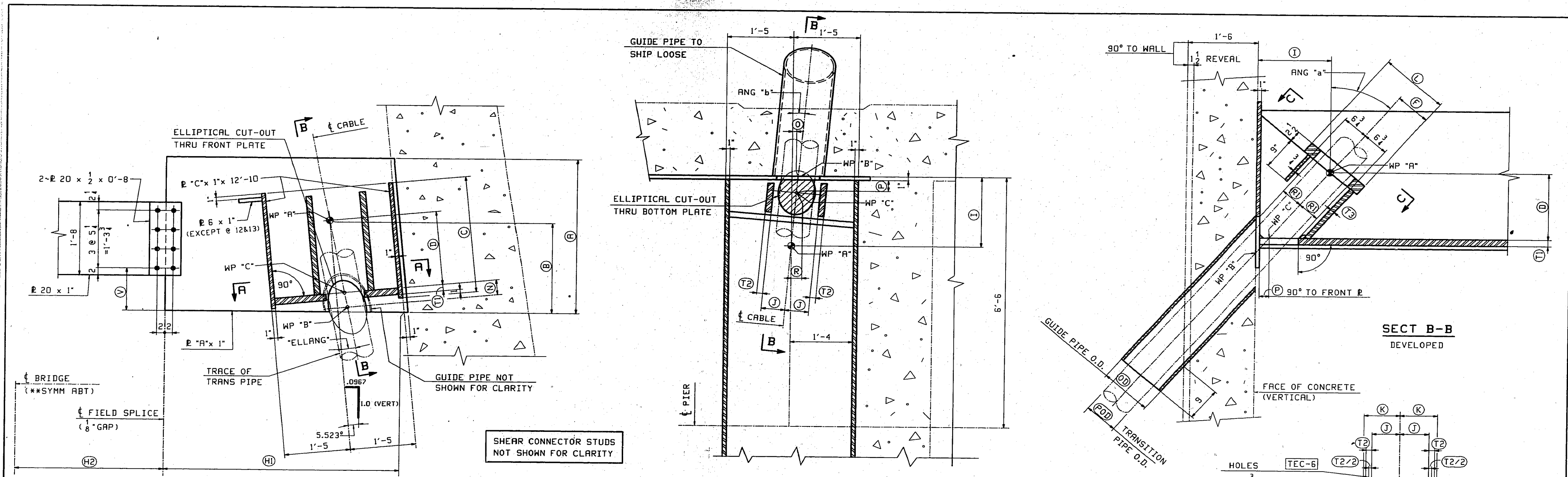
\*\* NOTE \*\*  
THE PURPOSE OF THIS DRAWING IS TO COORDINATE GEOMETRIC CONTROL INFORMATION AND CONNECTION SPACING. THIS DWG IS SUBMITTED FOR INFORMATION ONLY & IS NOT INTENDED FOR SHOP FABRICATION. DETAIL DWGS WILL SHOW ALL WELDING AND DIMENSIONS REQ'D FOR FABRICATION.

NOTES:  
1. ALL PLATE MATERIAL SHALL BE M270-50 (FCM).  
2. GUIDE PIPES SHALL BE ASTM A53 TYPE E, GR. B (GALV).  
3. COORDINATE THESE LAYOUTS WITH VSL CABLE DETAILS AND LEWIS ENGINEERING LADDER/PLATFORM DETAILS.

TYPE I TOWER BOX LAYOUTS			
VINCENNES STEEL CORP.			
VINCENNES, IND.			
Drawn	Checked	Approved	Revised
HL	TRR		
08/14/98	08/17/98		
U.S. 231 OVER THE OHIO RIVER AND INDIANA 66			
KENTUCKY D.O.H. / INDIANA D.O.T.			
BAYLISS COUNTY, KY / SPENCER COUNTY, IND			
PROJ. 00KBD 00101 001			
Shop Point SEE GNT			
Edge Distance AS NOTED Notes: 1/2" @ (UN)			
Contr. No. 671		Sh. TDI of	

TENSOR 1821-1





HALF SECTION @ TYPE II TOWER BOX (DIMENSIONS @ FACE OF CONCRETE)

\*\*TOWER BOX IS SYMMETRICAL WITH EXCEPTION TO LADDER AND PLATFORM CONNECTIONS. (COORDINATE WITH LEWIS ENGINEERING DETAILS)

FRAME	(A)	(B)	(C)	(D)	(H1)	(H2)	(V)	(I)	(T1)	CABLE	WP "A"	WP "B"	WP "C"	ANG "a"	ANG "b"	ELLANG	FOD	OD	F	J	K	L	(R)	N	O	P	R	(T2)	(T3)	
9	4'-2"	2'-1"	2'-0"	1'-6"	5'-0 <sup>7</sup> / <sub>8</sub> "	7'-6"	11 <sup>1</sup> / <sub>16</sub> "	1'-10"	1 <sup>1</sup> / <sub>2</sub> "	9	109	290	490	46.108°	2.068°	2.148°	8 <sup>5</sup> / <sub>8</sub> "	12 <sup>3</sup> / <sub>4</sub> "	9"	6 <sup>8</sup> / <sub>8</sub> "	8 <sup>1</sup> / <sub>4</sub> "	1'-6 <sup>3</sup> / <sub>4</sub> "	5 <sup>3</sup> / <sub>4</sub> "	3 <sup>3</sup> / <sub>16</sub> "	1 <sup>3</sup> / <sub>16</sub> "	2 <sup>5</sup> / <sub>16</sub> "	1 <sup>1</sup> / <sub>16</sub> "	1 <sup>1</sup> / <sub>2</sub> "	1 <sup>1</sup> / <sub>4</sub> "	
10	3'-8"	2'-1"	2'-0"	1'-6"	4'-11 <sup>15</sup> / <sub>16</sub> "	6'-6"	11 <sup>7</sup> / <sub>16</sub> "	1'-7"	1 <sup>1</sup> / <sub>4</sub> "	16	116	299	499	47.222°	2.279°	2.461°	8 <sup>5</sup> / <sub>8</sub> "	12 <sup>3</sup> / <sub>4</sub> "	9"	6 <sup>8</sup> / <sub>8</sub> "	8 <sup>1</sup> / <sub>4</sub> "	1'-6 <sup>3</sup> / <sub>4</sub> "	5 <sup>3</sup> / <sub>4</sub> "	2 <sup>3</sup> / <sub>8</sub> "	7 <sup>7</sup> / <sub>8</sub> "	1 <sup>9</sup> / <sub>16</sub> "	3 <sup>1</sup> / <sub>4</sub> "	1 <sup>1</sup> / <sub>2</sub> "	1 <sup>1</sup> / <sub>4</sub> "	
11	3'-4"	2'-2"	2'-0"	1'-8"	4'-11 <sup>1</sup> / <sub>16</sub> "	9'-6"	10 <sup>5</sup> / <sub>16</sub> "	1'-4"	3 <sup>3</sup> / <sub>4</sub> "	10	110	300	500	40.765°	2.701°	2.326°	8 <sup>5</sup> / <sub>8</sub> "	12 <sup>3</sup> / <sub>4</sub> "	9"	6 <sup>8</sup> / <sub>8</sub> "	8 <sup>1</sup> / <sub>4</sub> "	1'-6 <sup>3</sup> / <sub>4</sub> "	5 <sup>3</sup> / <sub>4</sub> "	4 <sup>1</sup> / <sub>16</sub> "	7 <sup>1</sup> / <sub>8</sub> "	2 <sup>1</sup> / <sub>2</sub> "	3 <sup>1</sup> / <sub>4</sub> "	1 <sup>1</sup> / <sub>2</sub> "	1 <sup>1</sup> / <sub>4</sub> "	
12	3'-2"	2'-4"	2'-2"	2'-0"	4'-10 <sup>7</sup> / <sub>8</sub> "	10'-6"	9 <sup>15</sup> / <sub>16</sub> "	1'-4"	3 <sup>3</sup> / <sub>4</sub> "	11	111	310	510	33.558°	3.803°	2.519°	7 <sup>1</sup> / <sub>16</sub> "	10 <sup>3</sup> / <sub>4</sub> "	9 <sup>3</sup> / <sub>4</sub> "	5 <sup>1</sup> / <sub>4</sub> "	8"	1'-6 <sup>1</sup> / <sub>2</sub> "	4 <sup>7</sup> / <sub>8</sub> "	4 <sup>8</sup> / <sub>8</sub> "	1 <sup>1</sup> / <sub>16</sub> "	1 <sup>3</sup> / <sub>8</sub> "	7 <sup>7</sup> / <sub>8</sub> "	1 <sup>1</sup> / <sub>2</sub> "	1"	
										14	114	319	519	34.214°	4.017°	2.727°	7 <sup>1</sup> / <sub>16</sub> "	10 <sup>3</sup> / <sub>4</sub> "	9 <sup>3</sup> / <sub>4</sub> "	5 <sup>1</sup> / <sub>4</sub> "	8"	1'-6 <sup>1</sup> / <sub>2</sub> "	4 <sup>7</sup> / <sub>8</sub> "	3 <sup>9</sup> / <sub>8</sub> "	1 <sup>1</sup> / <sub>16</sub> "	1 <sup>7</sup> / <sub>16</sub> "	1 <sup>5</sup> / <sub>16</sub> "	1 <sup>1</sup> / <sub>4</sub> "	1"	
										12	112	320	520	23.937°	6.151°	2.723°	8 <sup>5</sup> / <sub>8</sub> "	12 <sup>3</sup> / <sub>4</sub> "	9 <sup>3</sup> / <sub>4</sub> "	6 <sup>8</sup> / <sub>8</sub> "	8"	1'-6 <sup>2</sup> / <sub>2</sub> "	5 <sup>3</sup> / <sub>4</sub> "	1'-0 <sup>1</sup> / <sub>4</sub> "	1 <sup>1</sup> / <sub>2</sub> "	4 <sup>7</sup> / <sub>16</sub> "	1 <sup>1</sup> / <sub>8</sub> "	1 <sup>1</sup> / <sub>4</sub> "	1 <sup>1</sup> / <sub>4</sub> "	1"
										13	113	329	529	24.287°	6.362°	2.863°	8 <sup>5</sup> / <sub>8</sub> "	12 <sup>3</sup> / <sub>4</sub> "	9 <sup>3</sup> / <sub>4</sub> "	6 <sup>8</sup> / <sub>8</sub> "	8"	1'-6 <sup>2</sup> / <sub>2</sub> "	5 <sup>3</sup> / <sub>4</sub> "	11 <sup>1</sup> / <sub>16</sub> "	1 <sup>1</sup> / <sub>16</sub> "	4 <sup>1</sup> / <sub>4</sub> "	1 <sup>3</sup> / <sub>16</sub> "	1 <sup>1</sup> / <sub>4</sub> "	1"	

**\*\* NOTE \*\***  
 THE PURPOSE OF THIS DRAWING IS TO COORDINATE GEOMETRIC CONTROL INFORMATION AND CONNECTION SPACING. THIS DWG IS SUBMITTED FOR INFORMATION ONLY & IS NOT INTENDED FOR SHOP FABRICATION. DETAIL DWGS WILL SHOW ALL WELDING AND DIMENSIONS REQ'D FOR FABRICATION.

- NOTES:  
 1. ALL PLATE MATERIAL SHALL BE M270-50 (FCM).  
 2. GUIDE PIPES SHALL BE ASTM A53 TYPE E, GR. B (GALV).  
 3. COORDINATE THESE LAYOUTS WITH VSL CABLE DETAILS AND LEWIS ENGINEERING LADDER/PLATFORM DETAILS.

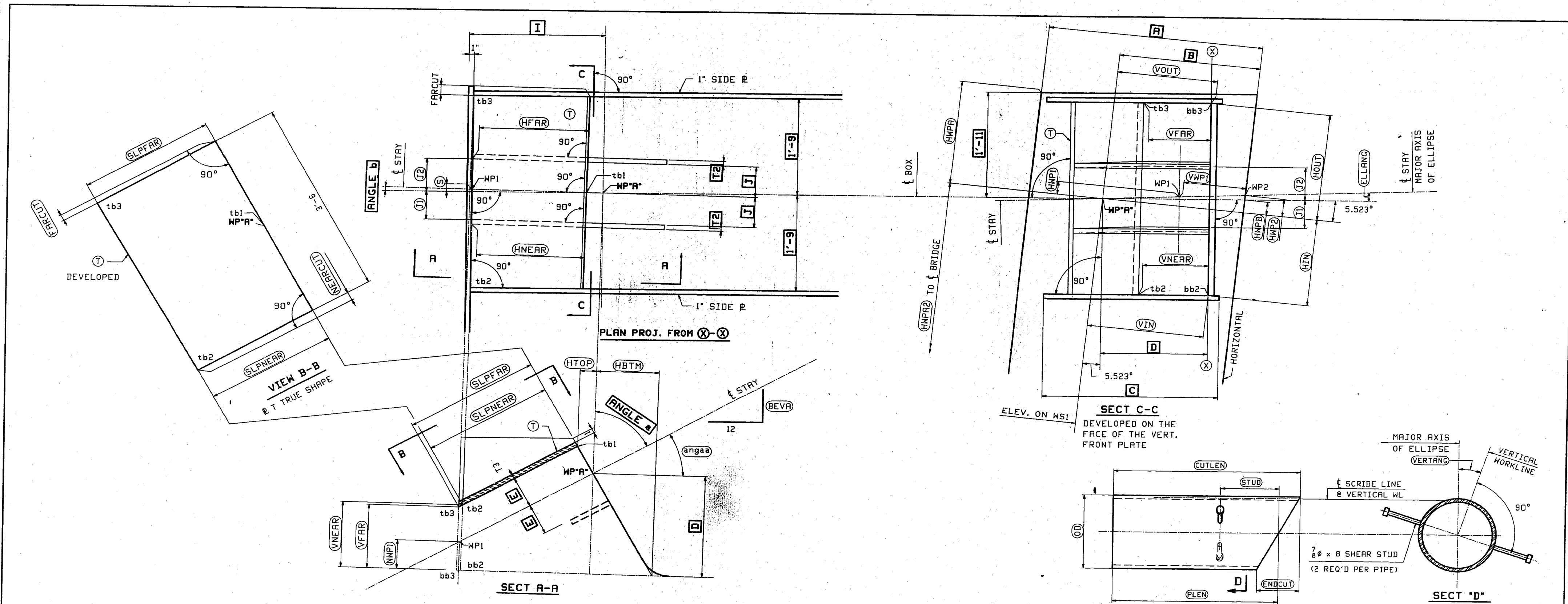
TYPE II TOWER BOX LAYOUTS  
**VINCENNES STEEL CORP.**  
 VINCENNES, IND.

Drawn	Checked	Approved	Revised
HL	TRM		
08/15/98	08/12/98		

U.S. 231 OVER THE OHIO RIVER AND INDIANA 66  
 KENTUCKY D.O.H. / INDIANA D.O.T.  
 DAVIESS COUNTY, KY / SPENCER COUNTY, IND  
 PROJ. 00KBD 0001 001

Shop Point SEC GN  
 Edge Distance AS NOTED Holes: 15" φ (LN)  
 Contr. No. 671 Sh TD2 of

SENSOR 1821-1



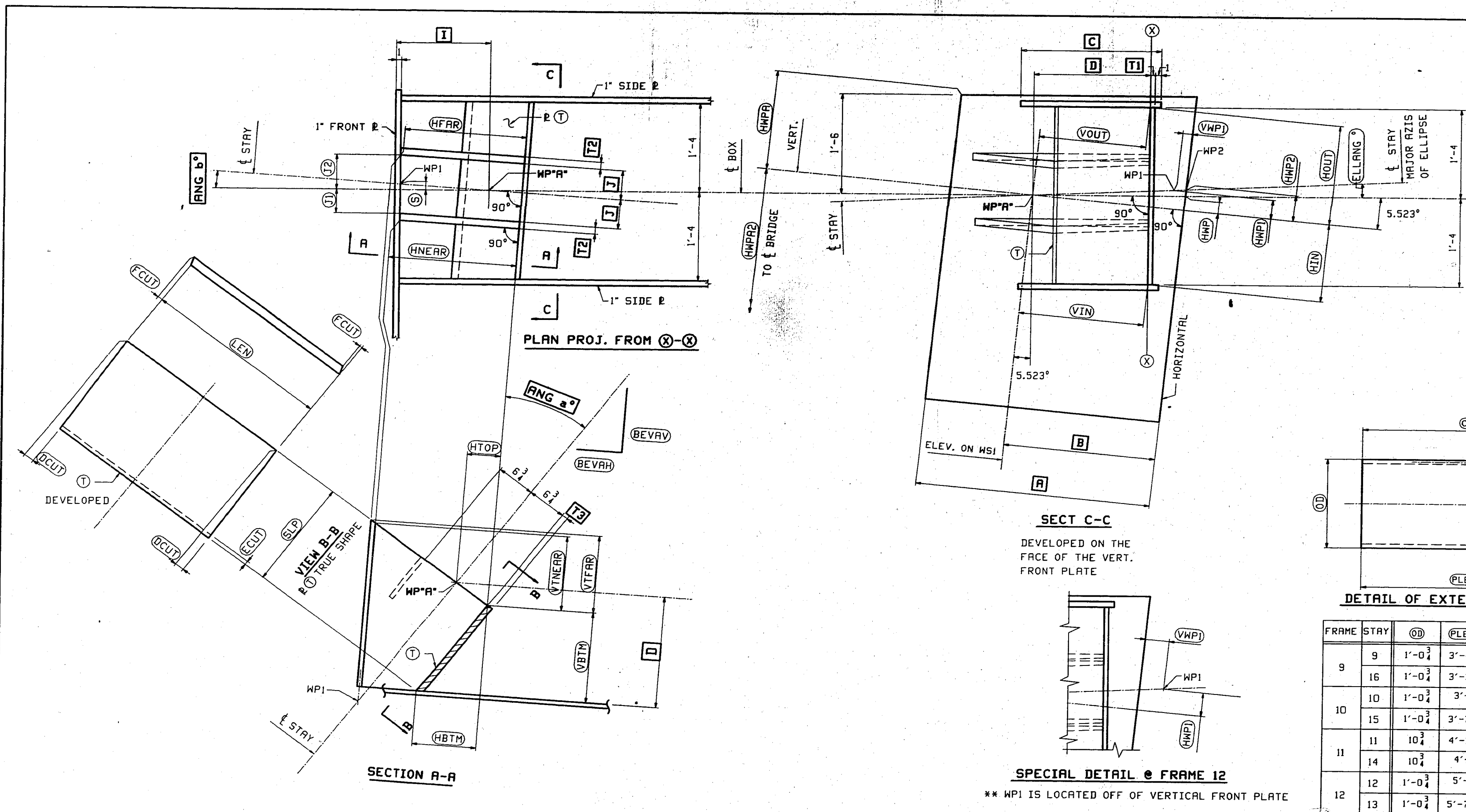
FRAME	STAY	(ANGAR)	(BEVR)	(S)	(HTOP)	(HBTM)	(HNEAR)	(HFAR)	(VNEAR)	(VFAR)	(SLPNEAR)	(SLPFAR)	(HMPAR)	(NEARCUT)	(FARCUT)	(HMP)	(VIN)	(VOUT)	(HIN)	(HOUT)	(HNP)	(ELLANG)	(HNP1)	(HNP2)	(HNP3)	(VHP1)	(T1)	(T2)	(OD)	(PLEN)	(ENDCUT)	(CUTLEN)	(STUD)	(VERTANG)
1	1	28.728	6 1/16	5 1/16	3 1/4	9 7/8	1'-11 1/16	1'-11 3/8	1'-0 1/16	11 7/8	2'-2 1/8	2'-2 1/8	4'-5 1/4	5 1/8	5 1/8	1'-9 9/16	1'-7 15/16	1'-3 7/8	1'-7 3/8	1'-10 5/8	3 1/2	1.3206	1 1/4	3 1/8	2 1/2	11 5/8	7 1/4	7 1/4	1'-4	2'-9 15/16	8 1/4	3'-2 1/4	1'-0 1/16	7.794
	24	24.798	5 1/16	3 1/8	3 1/8	8 5/8	1'-11 3/8	1'-11 7/8	1'-3 5/8	1'-3	2'-1 3/8	2'-2	4'-5 1/4	5 1/8	5 1/8	1'-9 9/16	1'-7 15/16	1'-3 7/8	1'-7 3/8	1'-10 5/8	5 1/2	1.7461	1 1/8	3 5/8	2 1/2	1'-1 5/8	8 1/8	8 7/8	1'-6	2'-9	8 1/4	3'-1 1/8	1'-0 1/8	8.000
2	2	28.784	6 1/16	3 1/8	3 1/4	9 7/8	1'-11 3/8	1'-11 7/8	1'-0 1/16	11 7/8	2'-2 1/8	2'-2 1/8	4'-5 1/4	5 1/8	5 1/8	1'-9 9/16	1'-7 15/16	1'-3 7/8	1'-7 3/8	1'-10 5/8	3 1/2	1.3630	1 1/4	3 1/8	2 1/2	11 5/8	7 1/4	7 1/4	1'-4	2'-9 15/16	8 1/4	3'-2 1/4	1'-0 1/16	7.847
	23	25.881	5 1/16	3 1/8	3 1/4	8 5/8	1'-11 3/8	1'-11 7/8	1'-0 1/16	11 7/8	2'-2 1/8	2'-2 1/8	4'-5 1/4	5 1/8	5 1/8	1'-9 9/16	1'-7 15/16	1'-3 7/8	1'-7 3/8	1'-10 5/8	4 1/8	1.8337	1 1/8	3 1/8	2 1/2	1'-1	6 15/16	7 1/8	1'-4	2'-8 1/2	7 3/4	3'-0 3/4	1'-0 5/16	8.168
3	3	28.587	6 1/16	3 1/8	3 1/4	9 7/8	1'-11 3/8	1'-11 7/8	1'-0 1/16	11 7/8	2'-2 1/8	2'-2 1/8	4'-5 1/4	5 1/8	5 1/8	1'-9 9/16	1'-7 15/16	1'-3 7/8	1'-7 3/8	1'-10 5/8	3 1/2	1.4641	1 1/8	3 1/8	2 1/2	11 5/8	8 1/8	8 7/8	1'-6	2'-10 3/8	9 1/2	3'-3 1/4	1'-0 1/2	7.947
	22	27.116	6 1/16	3 1/8	3 1/4	9 7/8	1'-11 3/8	1'-11 7/8	1'-0 1/16	11 7/8	2'-2 1/8	2'-2 1/8	4'-5 1/4	5 1/8	5 1/8	1'-9 9/16	1'-7 15/16	1'-3 7/8	1'-7 3/8	1'-10 5/8	4 1/8	1.9325	1 1/8	3 1/8	2 1/2	1'-0 1/4	6 15/16	7 1/8	1'-4	2'-9 1/2	8 1/2	3'-1 7/8	1'-0 1/2	7.947
4	4	30.235	7 1/16	4 1/8	3 1/4	1'-0 1/16	1'-11 3/8	1'-11 7/8	1'-2 1/4	1'-1 1/4	2'-2 1/8	2'-2 1/8	4'-5 1/4	5 1/8	5 1/8	1'-9 9/16	1'-11 15/16	1'-7 3/8	1'-6 13/16	1'-11	6 1/4	1.5386	1 1/8	3 1/8	2 1/2	1'-1 3/8	6 3/8	7 1/8	1'-2	2'-9 1/2	8 1/2	3'-2	1'-0 1/4	8.161
	21	28.647	6 1/16	3 1/8	3 1/4	9 7/8	1'-11 3/8	1'-11 7/8	1'-0 1/16	11 7/8	2'-2 1/8	2'-2 1/8	4'-5 1/4	5 1/8	5 1/8	1'-9 9/16	1'-11 15/16	1'-7 3/8	1'-6 13/16	1'-11	7 1/4	2.0200	1 1/8	3 1/8	2 1/2	1'-2 3/8	6 7/8	7 7/8	1'-4	2'-9 1/2	8 1/2	3'-2 1/4	1'-0 1/16	8.382
5	5	31.978	7 1/16	4 1/8	3 1/4	1'-0 1/16	1'-11 3/8	1'-11 7/8	1'-1 1/4	1'-1 1/4	2'-2 1/8	2'-2 1/8	4'-5 1/4	5 1/8	5 1/8	1'-9 9/16	1'-11 15/16	1'-7 3/8	1'-6 13/16	1'-11	9 1/8	1.6620	2 1/8	3 5/8	2 1/2	1'-0 1/4	6 3/8	7 7/8	1'-2	2'-10 3/8	8 1/2	3'-3	1'-1	8.454
	20	30.352	7 1/16	4 1/8	3 1/4	1'-0 1/16	1'-11 3/8	1'-11 7/8	1'-1 1/4	1'-1 1/4	2'-2 1/8	2'-2 1/8	4'-5 1/4	5 1/8	5 1/8	1'-9 9/16	1'-11 15/16	1'-7 3/8	1'-6 13/16	1'-11	6 3/8	2.1386	2 1/8	3 7/8	2 1/2	1'-1 5/8	6 3/8	7 7/8	1'-2	2'-9 1/2	8 1/2	3'-2 1/4	1'-0 1/4	8.863
6	6	34.008	8 1/16	5 1/8	3 1/4	1'-5 9/16	1'-11 3/8	1'-11 7/8	1'-4 1/4	1'-3 5/8	2'-3 1/2	2'-4 1/8	8'-1 3/8	2	2	1'-9 9/16	1'-11 15/16	1'-7 3/8	1'-6 13/16	1'-11 3/4	7 1/4	1.8045	2 5/8	4 1/4	3 1/8	1'-2 1/8	6 1/8	7 1/8	1'-2	2'-11 1/4	9 1/4	3'-4 3/8	1'-1 5/8	8.820
	19	32.508	7 5/16	4 1/8	3 1/4	1'-4 1/4	1'-11 3/8	1'-11 7/8	1'-5 1/8	1'-4 1/2	2'-3 1/2	2'-4 1/8	8'-1 3/8	2	2	1'-9 9/16	1'-11 15/16	1'-7 3/8	1'-6 13/16	1'-11 3/4	8 1/8	2.2394	2 5/8	4 1/2	3 1/8	1'-3 1/8	5 1/8	7 5/8	1'-2	2'-10 1/8	8 1/2	3'-5 1/8	1'-1 1/8	9.185
7	7	36.583	8 5/16	5 1/8	4	1'-5 9/16	1'-11 3/8	1'-11 7/8	1'-5 1/8	1'-4 1/2	2'-3 1/2	2'-4 1/8	8'-1 3/8	2	2	1'-9 9/16	1'-11 15/16	1'-7 3/8	1'-6 13/16	1'-11 3/4	6 3/8	1.9500	2 5/8	4 1/8	3	1'-1 5/8	6	7 1/4	1'-2	3'-0 3/8	10 3/8	3'-5 1/8	1'-1 1/8	9.281
	18	35.119	8 1/16	5 1/8	4	1'-4 7/8	1'-11 3/8	1'-11 7/8	1'-5 1/8	1'-4 1/2	2'-3 1/2	2'-4 1/8	8'-1 3/8	2	2	1'-9 9/16	1'-11 15/16	1'-7 3/8	1'-6 13/16	1'-11 3/4	7 1/4	2.3515	2 5/8	4 5/8	3	1'-2 1/4	5 1/2	6 1/2	1'-0 3/4	2'-11 1/2	9	3'-4	1'-1 7/8	9.613
8	8	39.728	10 1/16	6 1/8	4 1/2	1'-4 5/8	1'-11 3/8	1'-11 7/8	1'-4 5/8	1'-4 1/2	2'-3 1/2	2'-4 1/8	8'-1 3/8	2	2	1'-9 9/16	1'-11 15/16	1'-7 3/8	1'-6 13/16	1'-10 1/2	8 1/8	2.1141	2 5/8	4 5/8	3	1'-2 1/4	5 1/2	6 1/2	1'-0 3/4	3'-11 1/2	9	3'-7	1'-2 1/4	9.894
	17	38.467	9 1/16	5 1/8	4 1/2	1'-3 7/8	1'-11 3/8	1'-11 7/8	1'-4 5/8	1'-4 1/2	2'-3 1/2	2'-4 1/8	8'-1 3/8	2	2	1'-9 9/16	1'-11 15/16	1'-7 3/8	1'-6 13/16	1'-10 1/2	8 1/8	2.4738	2 5/8	4 5/8	3	1'-2 1/4	5 1/2	6 7/8	1'-0 3/4	3'-1 1/8	10 3/8	3'-6 1/8	1'-2 1/8	10.177

NOTES:  
 1. WORK THIS DRAWING WITH TDI.  
 2. VARIABLES SHOWN THUS: (A) ARE CONTROL DIMENSIONS. SEE TDI VALUES.  
 3. VARIABLES SHOWN THUS: (BEVR) ARE OUTPUT DIMENSIONS. SEE TABLE THIS SHEET.

NOTE #1  
 THE PURPOSE OF THIS DRAWING IS TO COORDINATE GEOMETRIC CONTROL INFORMATION AND CONNECTION SPACING. THIS DWG IS SUBMITTED FOR INFORMATION ONLY & IS NOT INTENDED FOR SHOP FABRICATION. DETAIL DWGS WILL SHOW ALL WELDING AND DIMENSIONS REQ'D FOR FABRICATION.

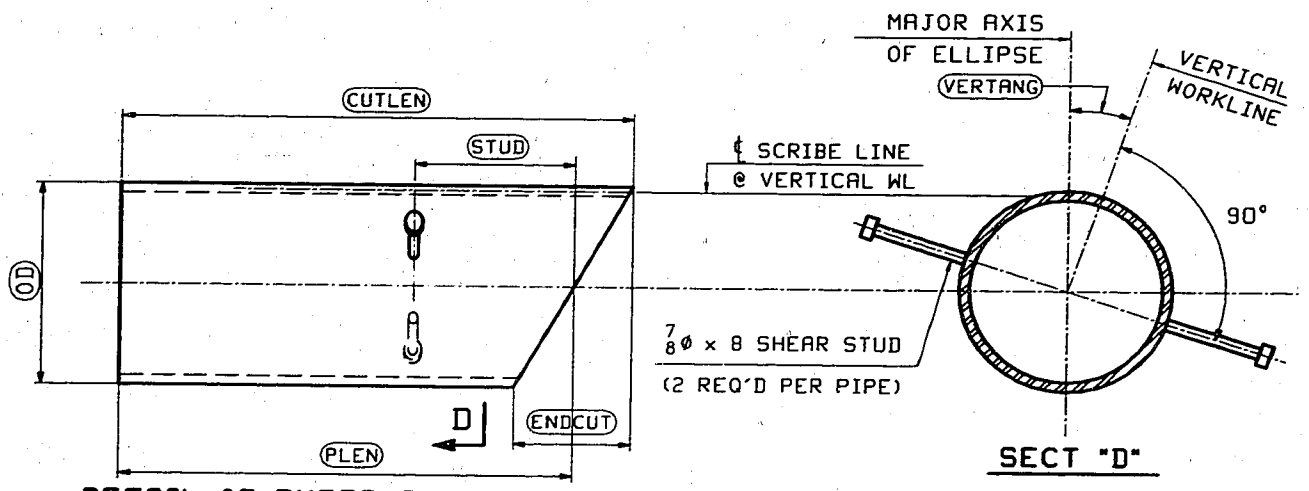
TONER BOX LAYOUTS			
VINCENNES STEEL CORP.			
VINCENNES, IND.			
Drawn	Checked	Approved	Revised
HMJ	ML		
09/18/98	09/22/98		
U.S. 231 OVER THE OHIO RIVER AND INDIANA 66			
KENTUCKY D.O.H. - INDIANA D.O.T.			
DAVIES COUNTY, KY - SPENCER COUNTY, IND			
PROJ. 00KBB 0001 001			
Shop Point SEE GMI			
Edge Distance AS NOTED Notes: 1/4" (UN)			
Contr. No. 671 Sh. TD3 of 6			





NOTES:  
 1. WORK THIS DRAWING WITH TD2.  
 2. VARIABLES SHOWN THUS: [A] ARE CONTROL DIMENSIONS. SEE TD2 VALUES.  
 3. VARIABLES SHOWN THUS: [B] ARE OUTPUT DIMENSIONS. SEE TABLE THIS SHEET.

\*\* NOTE \*\*  
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FRAME	STAY	QD	PLEN	ENDCUT	CUTLEN	STUD	VERTANG
9	9	1'-0 1/2	3'-4 3/8	1'-0 1/4	3'-10 1/8	1'-3 1/8	10.594
	16	1'-0 1/2	3'-3 3/8	11 1/8	3'-9 3/8	1'-3	10.827
10	10	1'-0 1/2	3'-8	1'-2 1/8	4'-3 3/8	1'-4 1/4	11.935
	15	1'-0 1/2	3'-7 5/8	1'-2 3/8	4'-2 7/8	1'-4 9/16	12.116
11	11	10 1/4	4'-1 1/2	1'-4 5/8	4'-9 7/8	1'-7 1/2	14.365
	14	10 1/4	4'-1	1'-3 3/8	4'-8 15/16	1'-7 5/8	14.494
12	12	1'-0 1/2	5'-8	2'-4 1/8	6'-10 7/8	2'-3 3/8	19.761
	13	1'-0 1/2	5'-7 3/8	2'-4 1/8	6'-9 3/8	2'-2 1/2	19.831

FRAME	STAY	BEVAH	BEVAV	ELLANG	HTOP	HBTM	VBTM	HNEAR	HFAR	VTNEAR	VFAR	SLP	DCUT	ECUT	FCUT	HMPA	HMPA2	VIN	VOUT	HIN	HOUT	HWP	HWP1	VWP1	HWP2	J1	J2	S
9	9	11 9/16	1'-0	2.1482	4 11/16	1'-1 5/8	1'-1 1/8	2'-1 7/16	2'-1 15/16	2'-2 1/16	2'-2 1/16	1'-6 1/16	0 1/2	1 1/2	0 1/4	1'-3 11/16	10'-11 7/16	1'-7 7/16	1'-4 3/8	1'-2 3/8	1'-5 11/16	2 7/16	2 11/16	4 15/16	3 3/8	5 3/8	6 7/8	0 3/4
	16	11 1/8	1'-0	2.4608	4 9/16	1'-2 1/8	1'-1 1/16	2'-1 1/4	2'-1 7/8	2'-3 1/4	2'-3 15/16	1'-7 3/16	0 5/8	1 3/8	0 1/2	1'-3 11/16	10'-11 7/16	1'-7 7/16	1'-4 3/8	1'-2 3/8	1'-5 11/16	2 7/16	2 11/16	5 3/8	3 1/2	5 1/4	6 15/16	0 13/16
10	10	1'-0	10 3/8	2.3264	5 1/8	1'-1 1/16	1'-1 9/16	1'-10 3/4	1'-11 7/16	1'-7 5/8	1'-8 3/16	1'-5 15/16	0 5/8	1 1/8	0 1/2	1'-4 1/8	11'-10 1/4	1'-7 7/16	1'-4 3/8	1'-2 3/8	1'-5 11/16	2 7/16	2 7/8	4 1/4	3 7/8	5 1/4	7	0 7/8
	15	1'-0	10 11/16	2.5908	5 1/16	1'-0	1'-1 1/2	1'-10 11/16	1'-11 3/8	1'-8 3/16	1'-8 13/16	1'-6 1/16	0 5/8	1 1/8	0 1/2	1'-5 1/8	11'-10 7/16	1'-7 7/16	1'-4 3/8	1'-2 3/8	1'-5 11/16	2 7/16	2 7/8	4 15/16	3 9/16	5 3/8	7 1/16	0 15/16
11	11	1'-0	7 15/16	2.5192	5 5/8	10 13/16	1'-4 5/8	1'-8 5/16	1'-9	1'-1 7/16	1'-1 15/16	1'-7 1/2	0 11/16	0 11/16	0 1/2	1'-4 3/4	12'-9 1/16	1'-7 7/16	1'-4 3/8	1'-2	1'-5 1/8	2 1/2	3 3/8	3 9/16	3 1/16	4 5/16	6 5/16	1
	14	1'-0	8 3/16	2.7271	5 1/16	11	1'-4 3/8	1'-8 3/16	1'-9	1'-1 1/16	1'-2 5/16	1'-7 5/8	0 3/4	0 11/16	0 1/2	1'-4 3/4	12'-9 1/16	1'-7 7/16	1'-4 3/8	1'-2	1'-5 1/8	2 1/2	3 3/8	4 8	3 3/4	4 1/16	6 1/4	1 1/16
12	12	1'-0	5 1/4	2.7232	6 3/16	9 7/16	1'-9 5/8	1'-8 7/16	1'-9 15/16	9 1/16	9 3/4	1'-11 5/8	1	0 7/8	0 1/2	1'-5 1/8	13'-9 1/16	2'-7 1/16	1'-10 3/8	1'-5 1/8	1'-6 1/16	2 11/16	** 7 4/8	** 5 8/16	4 1/16	4 9/16	7 1/2	1 5/8
	13	1'-0	5 1/8	2.8625	6 1/8	9 9/16	1'-9 5/8	1'-8 7/16	1'-9 15/16	9 3/16	9 5/8	1'-11 1/4	1 1/4	0 7/8	0 1/2	1'-5 1/8	13'-9 1/16	2'-7 1/16	1'-10 3/8	1'-5 1/8	1'-6 1/16	2 11/16	** 7 4/8	** 5 1/16	4 8	4 2	7 13/16	1 1/16

TOWER BOX LAYOUTS

**VINCENNES STEEL CORP.**  
VINCENNES, IND.

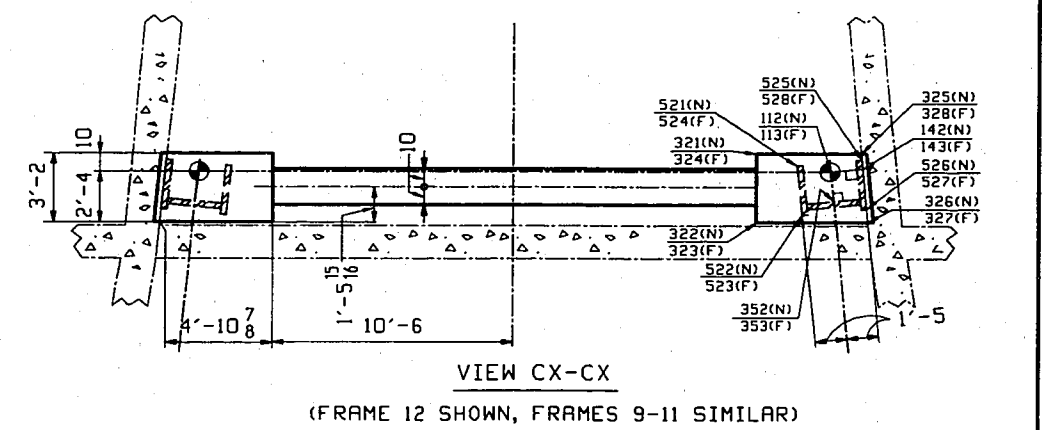
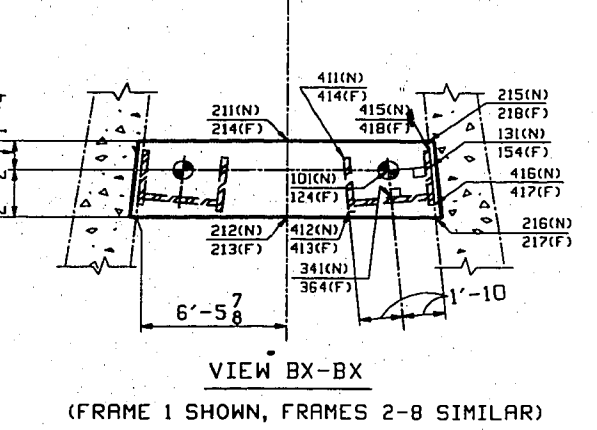
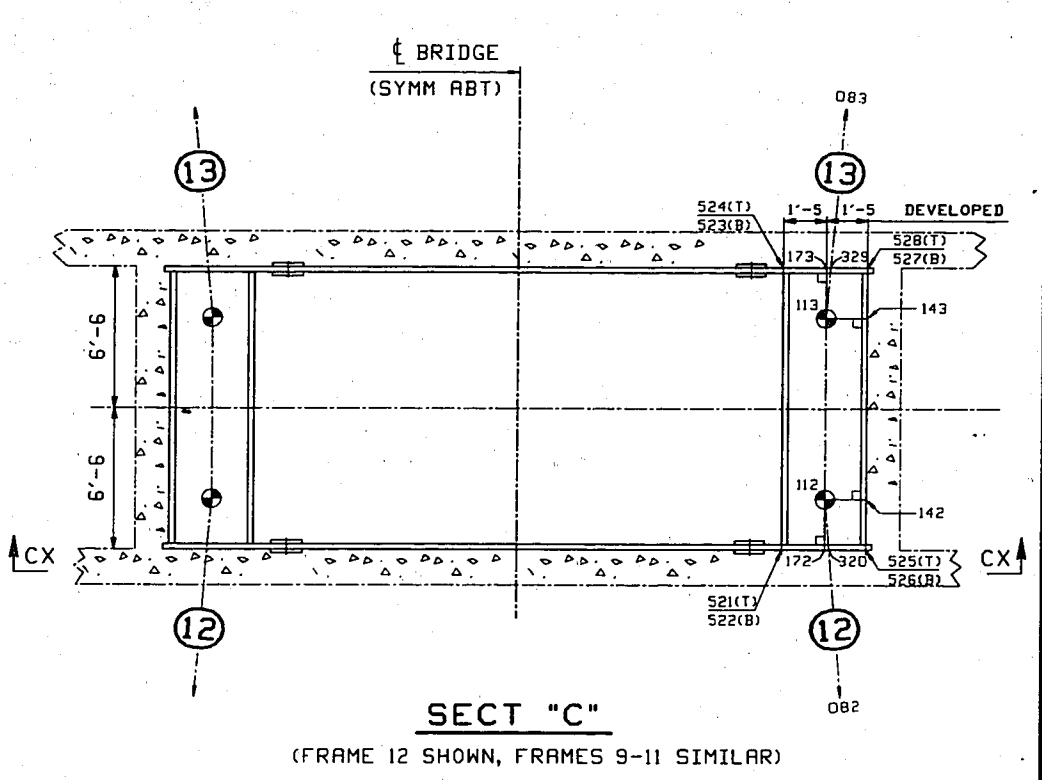
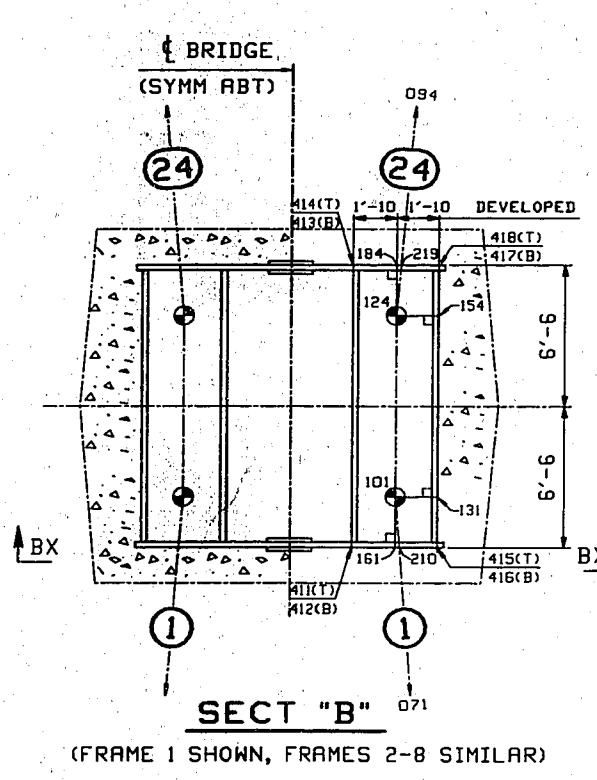
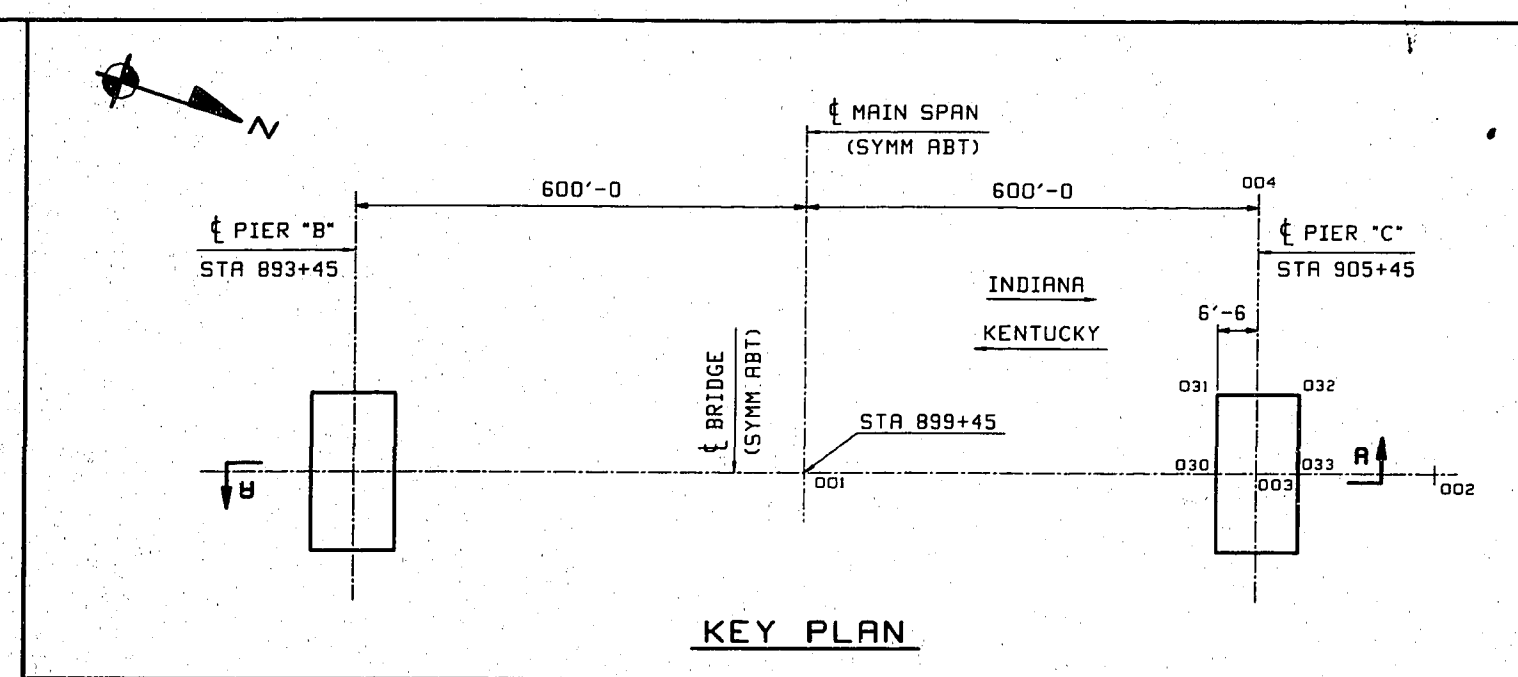
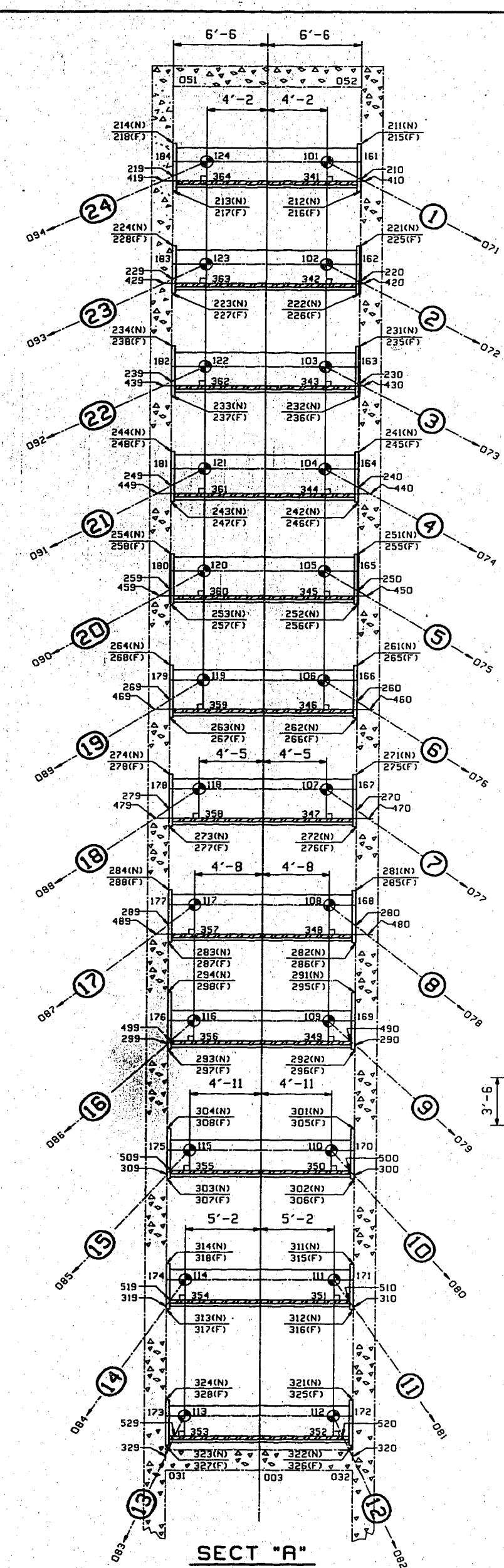
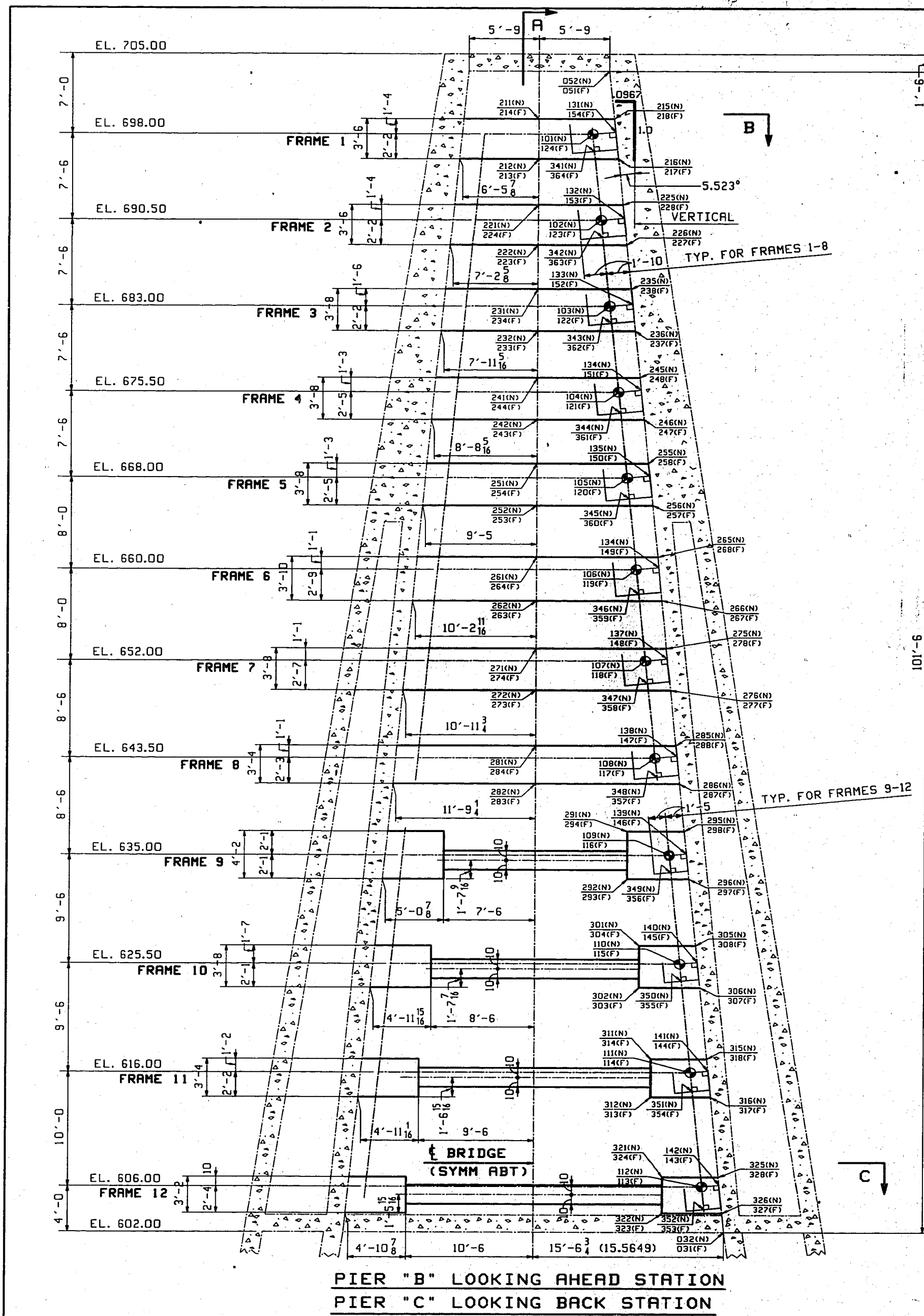
Drawn	Checked	Approved	Revised
HL	HL		
09/22/98	09/30/98		

U.S. 231 OVER THE OHIO RIVER AND INDIANA 66  
KENTUCKY D.O.M. / INDIANA D.O.T.  
DAVIESS COUNTY, KY / SPENCER COUNTY, IND  
PROJ. 00KBD 00101 001

Shop Point SEE GNI

Edge Distance AS NOTED Holes 1/16" (UN)

Contr. No. 671 Sh. TD4 of 7

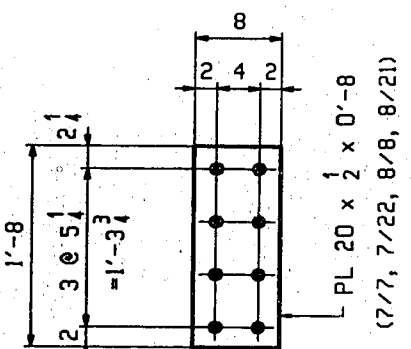
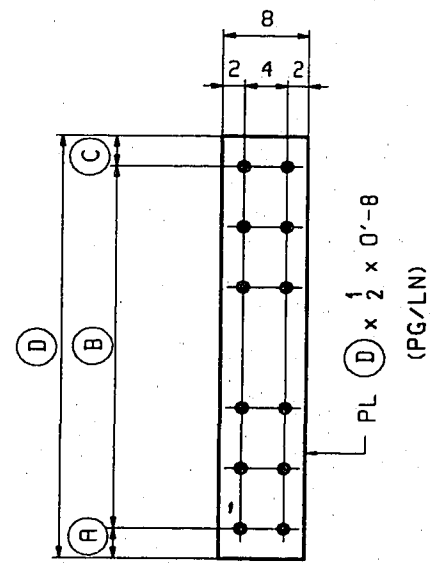


**NOTE**  
 THE PURPOSE OF THIS DRAWING IS TO COORDINATE GEOMETRIC CONTROL INFORMATION. THIS Dwg IS SUBMITTED FOR INFORMATION ONLY AND IS NOT INTENDED FOR SHOP FABRICATION.

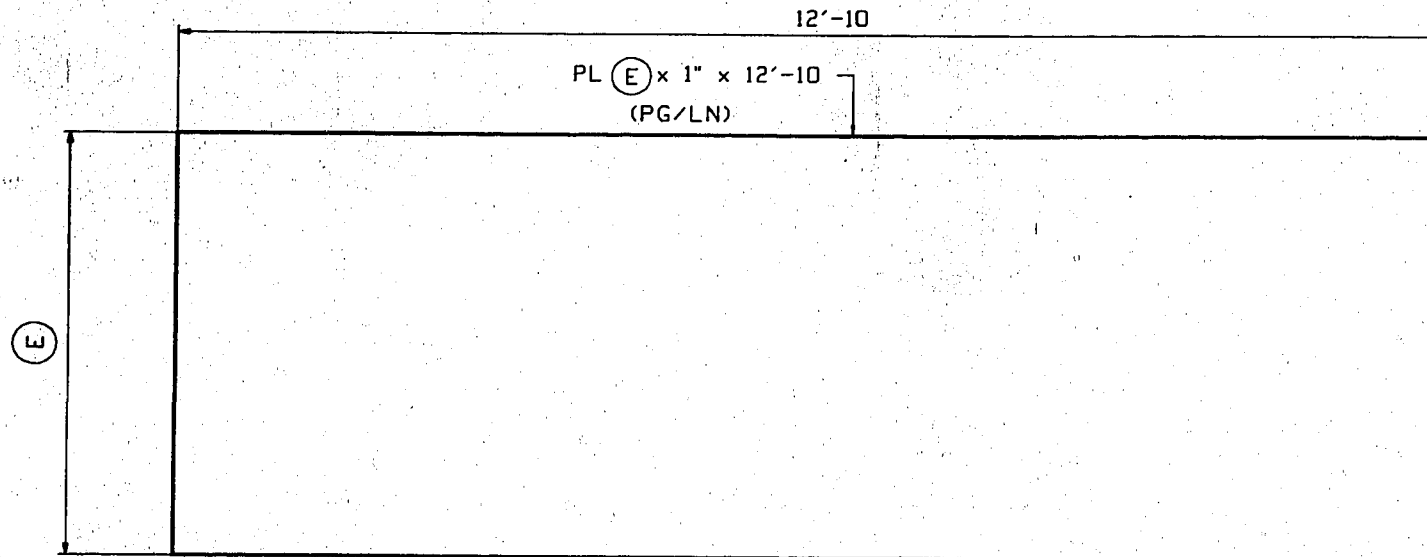
- NOTES:  
 1. TOWERS ARE SYMMETRICAL ABOUT  $\epsilon$  BRIDGE AND  $\epsilon$  OF MAIN SPAN.  
 2.  $\odot$  DENOTES CABLE WORKPOINT. SEE TD101 & TD102 FOR LOCATIONS.  
 3. (N) INDICATES WP @ NEAR FACE, (F) INDICATES WP @ FAR FACE.  
 4. (T) INDICATES WP @ TOP, (B) INDICATES WP @ BOTTOM.

TOWER BOX ELEVATION			
VINCENNES STEEL CORP. VINCENNES, IND.			
Drawn	Checked	Approved	Revised
HL	TRM		
08/11/98	08/17/98		
U.S. 231 OVER THE OHIO RIVER AND INDIANA 66 KENTUCKY D.O.M. / INDIANA D.O.T. DAVIESS COUNTY, KY / SPENCER COUNTY, IND PROJ. 00KBD 00101 001			
Shop Print	SEE GNI		
Edge Distance AS NOTED	Holes $\frac{1}{2}$ " $\phi$ (LUN)		
Contr. No. 671	Sh. WSI		





64 ~ xlf  
(SPL. PLs @ FRAME 9,10,11 & 12)

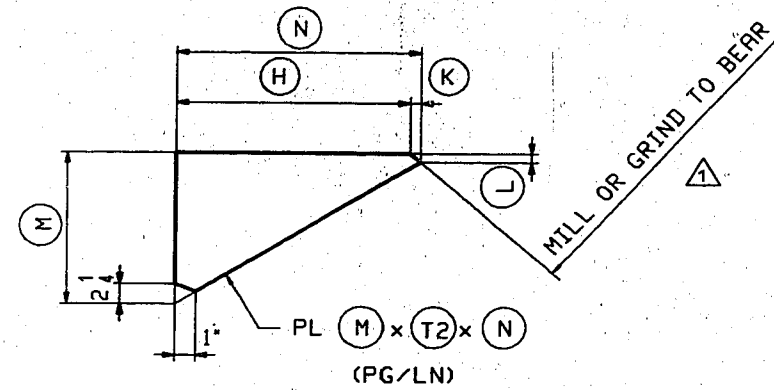


MARK	NO.REOD	(E)	PG/LN
(@ FRAME 1 & 2)	xlg	16	2'-10 1/4, 2/4
(@ FRAME 3,4,5 & 7)	xlh	32	3'-0 3/4, 4/4, 5/4, 6/4
(@ FRAME 6)	xlk	8	3'-2 5/17
(@ FRAME 8)	xlm	8	2'-8 6/17
(@ FRAME 9,10 & 11)	xln	24	2'-0 7/5, 7/19, 8/5
(@ FRAME 12)	xlp	8	2'-2 8/19

SIDE PLATES  
(TYPE I & II CABLE FRAME)

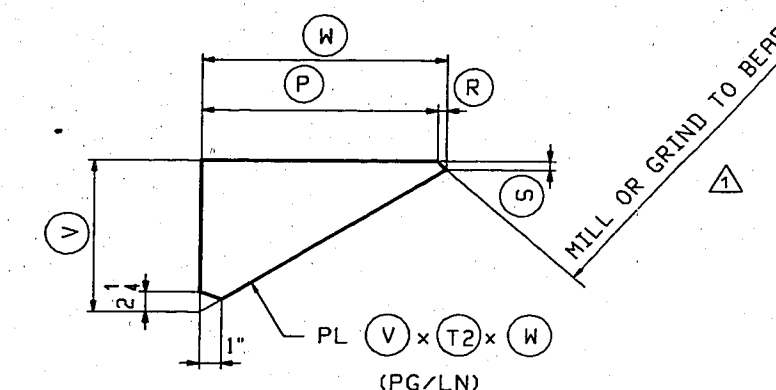
SPRICE-PEACE

MARK	NO.REOD	(A)	(B)	(C)	(D)	PG/LN
(@ FRAME 1 & 2)	xla	16	3	6 @ 6 = 3'-0	3	3'-6 1/6, 2/6
(@ FRAME 3,4,5,7)	xlb	32	4	6 @ 6 = 3'-0	4	3'-8 3/6, 4/6, 5/6, 6/6
(@ FRAME 6)	xlc	8	2	7 @ 6 = 3'-6	2	3'-10 5/19
(@ FRAME 8)	xld	8	2	6 @ 6 = 3'-0	2	3'-4 6/19



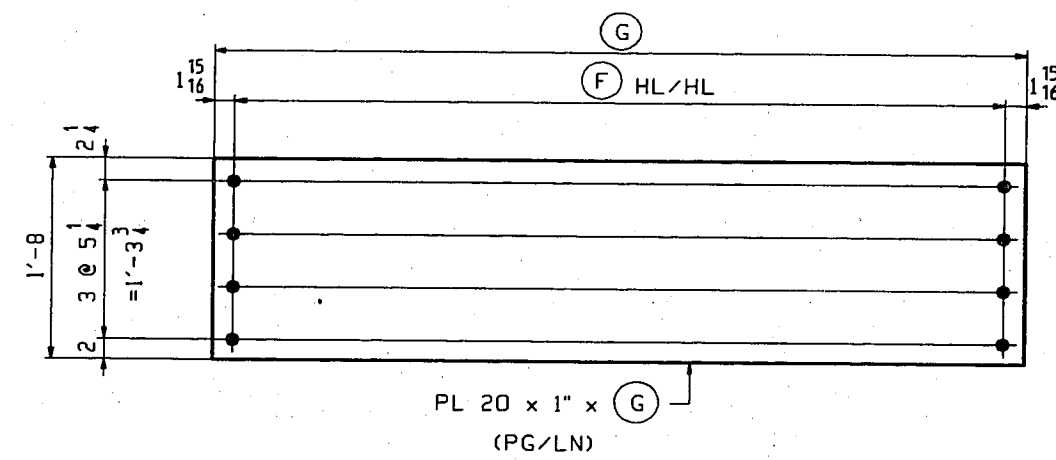
STIFFENERS  
(TYPE I CABLE FRAME)

MARK	NO.REOD	(H)	(K)	(L)	(T2)	(M)	(N)	PG/LN
(@ CABLE 1 & 2)	xlba	8	1'-9 5/16	1/2	7/8	1 1/2	1'-1 3/16	1'-10 7/16 1/11, 2/11
(@ CABLE 3)	xlbb	4	1'-9 1/4	1/2	7/8	2	1'-0 1/16	1'-9 3/4 3/11
(@ CABLE 4)	xlbd	4	1'-10 1/2	1/2	7/8	1"	1'-2 1/4	1'-11 4/11
(@ CABLE 5)	xlbf	4	1'-10 1/8	1/2	7/8	1 1/4	1'-3	1'-10 5/8 5/11
(@ CABLE 6)	xlbg	4	1'-9 15/16	9/16	13/16	1"	1'-4	1'-10 1/2 5/24
(@ CABLE 7)	xlbh	4	1'-6 7/16	5/8	13/16	1 1/4	1'-2 15/16	1'-7 1/16 6/11
(@ CABLE 8)	xlbk	4	1'-2 7/8	5/8	3/4	1 1/2	1'-5 5/16	1'-3 1/2 6/24
(@ CABLE 24)	xlbm	4	1'-10 1/16	7/16	15/16	3/4	11 5/8	1'-10 1/2 1/16
(@ CABLE 23)	xlbn	4	1'-10 3/8	7/16	7/8	1 1/2	1'-0	1'-10 13/16 2/14
(@ CABLE 22)	xlbp	4	1'-10 3/16	7/16	7/8	1 1/2	1'-0 1/2	1'-10 5/8 3/16
(@ CABLE 21)	xlbs	4	1'-10 1/16	1/2	7/8	1 1/4	1'-3 1/16	1'-10 7/16 4/16
(@ CABLE 20)	xlbt	4	1'-10 5/16	1/2	7/8	1 1/4	1'-2 3/16	1'-10 13/16 5/11
(@ CABLE 19)	xlbv	4	1'-10 1/8	9/16	13/16	1"	1'-3 1/4	1'-10 1/16 5/24
(@ CABLE 18)	xlbw	4	1'-6 5/8	9/16	13/16	1 1/4	1'-2 5/16	1'-7 1/16 6/11
(@ CABLE 17)	xlbx	4	1'-3	5/8	13/16	1 1/2	1'-1 1/16	1'-3 5/8 6/24



STIFFENERS  
(TYPE I CABLE FRAME)

MARK	NO.REOD	(P)	(R)	(S)	(T2)	(V)	(W)	PG/LN
(@ CABLE 1 & 2)	xlca	8	1'-10 3/16	1/2	7/8	1 1/2	1'-5 1/16	1'-10 11/16 1/11, 2/11
(@ CABLE 3)	xlcb	4	1'-9 1/2	1/2	7/8	2	1'-0 1/8	1'-10 3/11
(@ CABLE 4)	xlcc	4	1'-10 1/16	1/2	7/8	1"	1'-2 3/8	1'-11 3/11 4/11
(@ CABLE 5)	xlcf	4	1'-10 3/8	1/2	7/8	1 1/4	1'-3 1/8	1'-10 7/8 5/11
(@ CABLE 6)	xlccg	4	1'-10 1/4	9/16	13/16	1"	1'-4 1/4	1'-10 13/16 5/24
(@ CABLE 7)	xlch	4	1'-6 13/16	5/8	13/16	1 1/4	1'-3 3/16	1'-7 1/16 6/11
(@ CABLE 8)	xlck	4	1'-3 5/16	5/8	3/4	1 1/2	1'-2	1'-9 15/16 6/24
(@ CABLE 24)	xlcm	4	1'-10 5/16	7/16	15/16	3/4	11 3/8	1'-10 3/4 1/16
(@ CABLE 23)	xlcn	4	1'-10 5/8	7/16	7/8	1 1/2	1'-0 1/8	1'-11 1/16 2/14
(@ CABLE 22)	xlcp	4	1'-10 7/16	7/16	7/8	1 1/2	1'-0 5/8	1'-10 7/8 3/16
(@ CABLE 21)	xlcs	4	1'-10 3/8	1/2	7/8	1 1/4	1'-3 1/8	1'-10 7/8 4/16
(@ CABLE 20)	xlct	4	1'-10 5/8	1/2	7/8	1 1/4	1'-2 3/8	1'-11 1/8 5/11
(@ CABLE 19)	xlcv	4	1'-10 1/2	9/16	13/16	1"	1'-3 1/2	1'-11 1/16 5/24
(@ CABLE 18)	xlcw	4	1'-7	9/16	13/16	1 1/4	1'-2 9/16	1'-7 9/16 6/11
(@ CABLE 17)	xlcx	4	1'-3 7/16	5/8	13/16	1 1/2	1'-1 9/16	1'-4 1/16 6/24



TIE PLATES  
(TYPE II CABLE FRAME)

MARK	NO.REOD	(F)	(G)	PG/LN
(@ FRAME 9)	xlaa	4	14'-8	14'-11 7/8 7/4
(@ FRAME 10)	xlab	4	16'-8	16'-11 7/8 7/18
(@ FRAME 11)	xlac	4	18'-8	18'-11 7/8 8/4
(@ FRAME 12)	xlad	4	20'-8	20'-11 7/8 8/18

NOTES:

- FOR GENERAL NOTES SEE DRAWING GNI
- ALL MATERIAL TO BE M270 GR50 (FCM).  
(FCM - DENOTES FRACTURE CRITICAL MATERIAL)
- ALL HOLES TO BE (DR) (UN).

CABLE FRAME STANDARDS  
VINCENNES STEEL CORP.  
VINCENNES, IND.

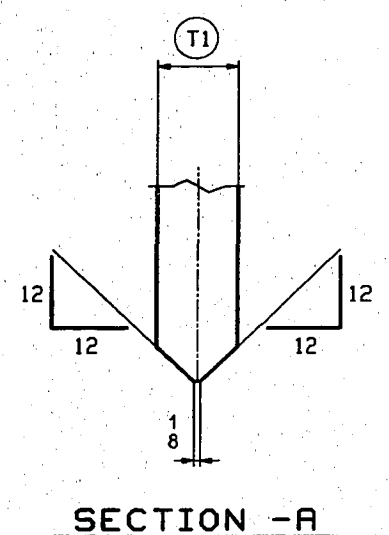
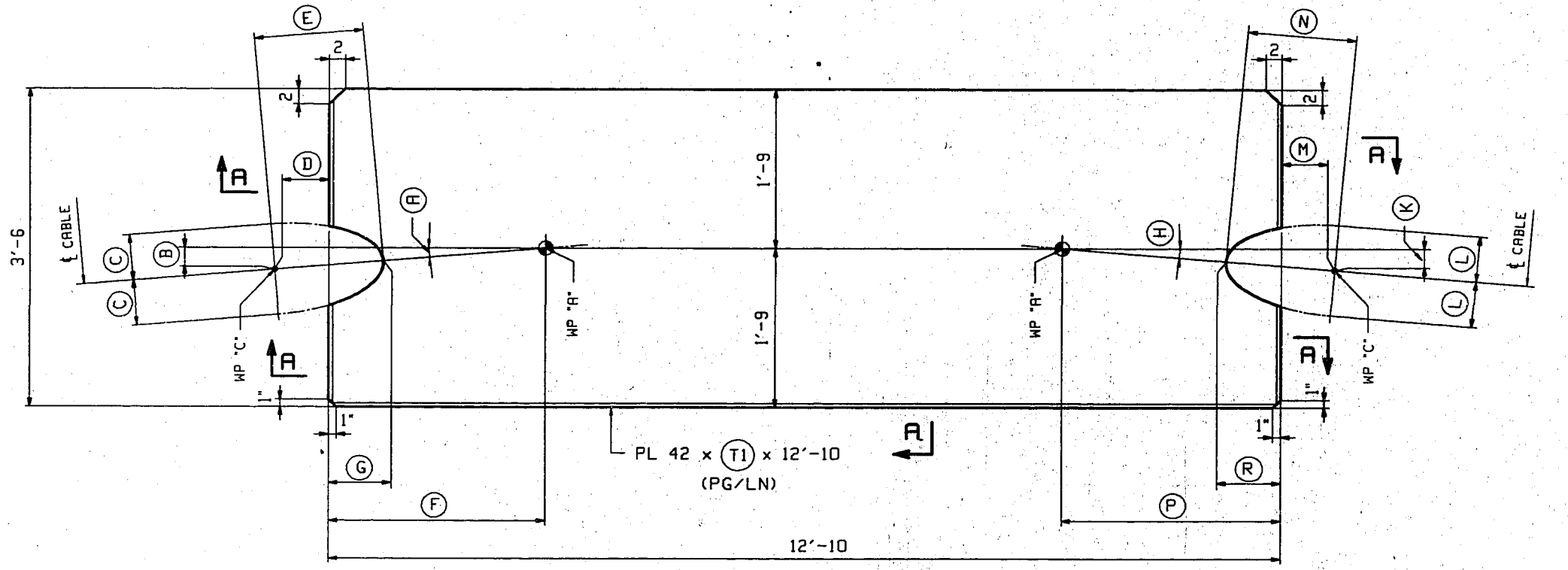
Drawn	Checked	Approved	Revised
RB 8/20/98	TRM 10/5/98		RB/TRM 11/11/98

U.S. 231 OVER THE OHIO RIVER AND INDIANA 66  
KENTUCKY D.O.H. / INDIANA D.O.I.  
DAVIESS COUNTY, KY / SPENCER COUNTY, IND  
PROJ. 00KBD 0001 001

Shop Print SEE GNI

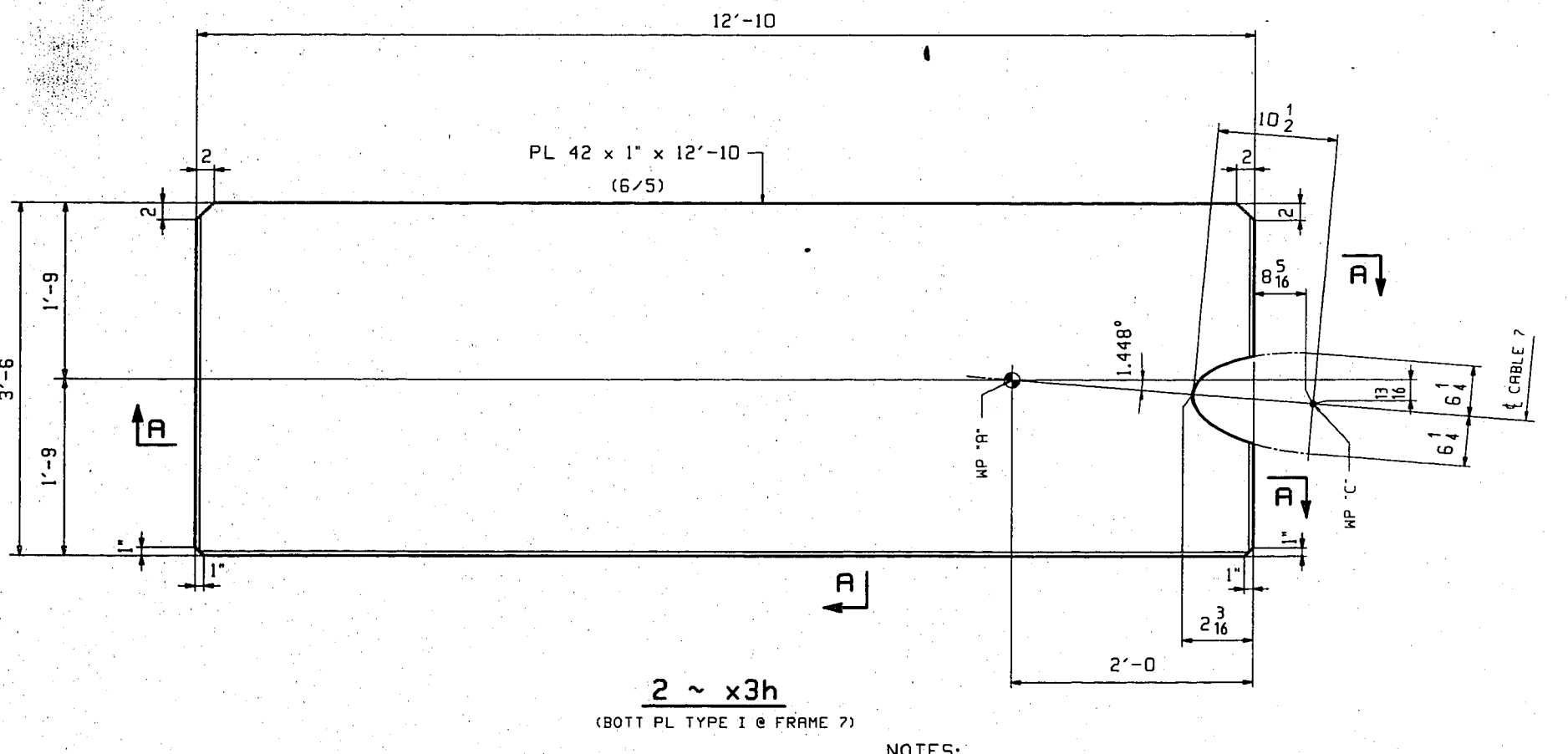
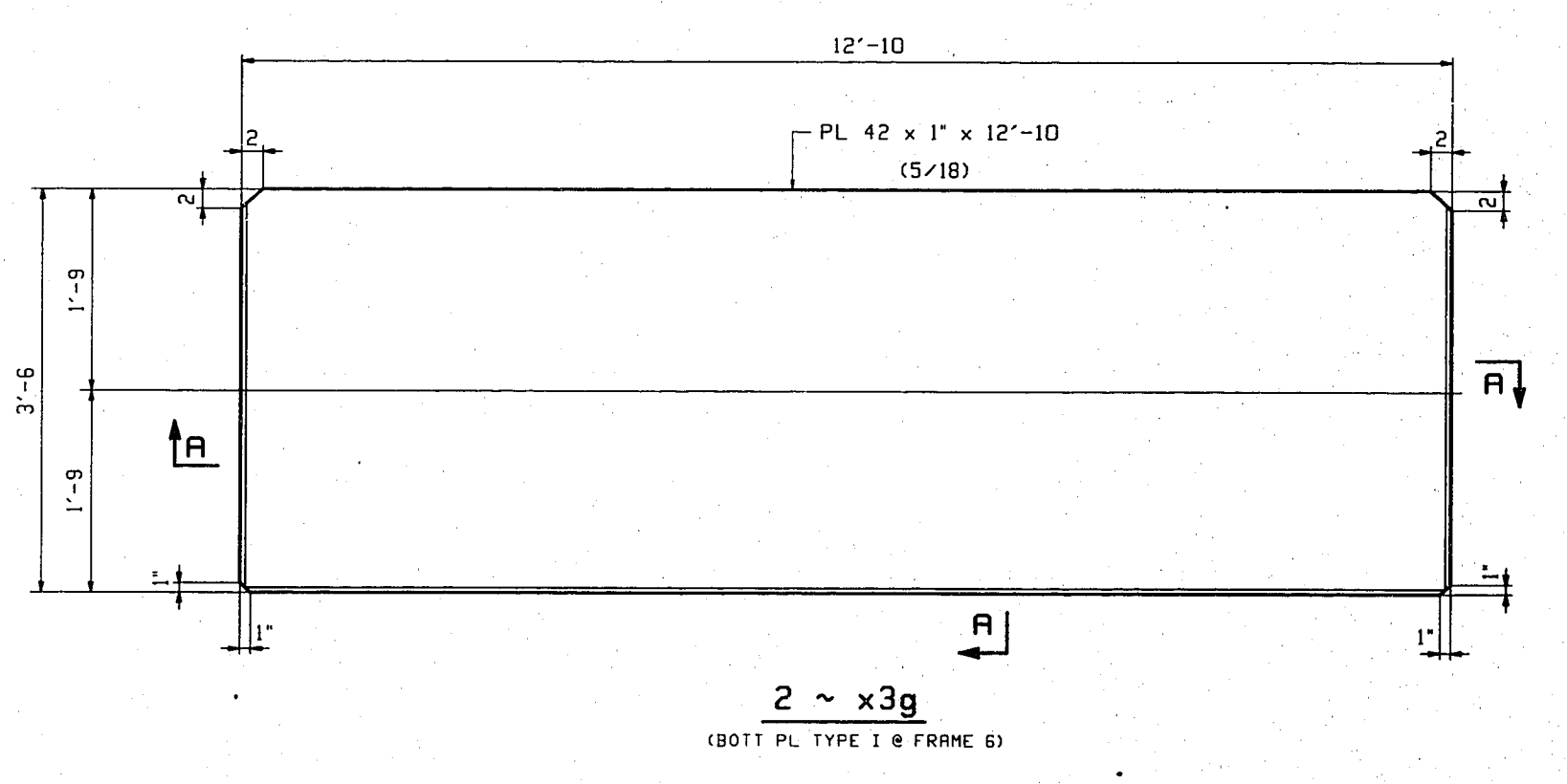
Edge Distance AS NOTED Holes: 5/16" @ (UN)

Contr. No. 671 Sh. X1 of 7



BOTTOM PLATES  
(TYPE 1 CABLE FRAME)

MARK	NO. REOD	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(K)	(L)	(M)	(N)	(P)	(R)	(T)	PG/LN	
(e) FRAME 1)	x3a	2	0.807°	9/16	7 13/16	11 15/16	1'-6 5/8	2'-3	6 11/16	0.724°	7/16	7 1/16	5 3/16	1'-2 11/16	2'-3	8 7/8	1 3/4	1/5
(e) FRAME 2)	x3b	2	0.890°	9/16	7 1/16	10 1/8	1'-4 3/16	2'-3	6 1/16	0.749°	7/16	7 1/16	5 3/4	1'-2 11/16	2'-3	8 15/16	1 1/2	2/5
(e) FRAME 3)	x3c	2	0.990°	5/8	7 1/16	8 1/8	1'-3 1/2	2'-3	7 3/8	0.798°	7/16	7 13/16	6"	1'-4 5/16	2'-3	10 5/16	1 3/4	3/5
(e) FRAME 4)	x3d	2	1.104°	3/4	7 1/16	1'-1 1/4	1'-2 3/4	2'-3	1 1/2	0.897°	9/16	6 1/4	10 3/4	1'-0 7/16	2'-3	11 1/16	1 1/4	4/5
(e) FRAME 5)	x3f	2	1.253°	13/16	6 1/4	10 9/16	1'-0 3/8	2'-3	1 13/16	1.039°	5/8	6 1/4	8 3/16	11 13/16	2'-3	3 5/8	1"	5/5
(e) FRAME 6)	x3k	2	1.967°	7/8	5 3/4	4 1/16	9 1/4	1'-9	5 1/16	1.758°	3/4	5 3/4	3 1/16	9"	1'-9	5 15/16	1"	6/18

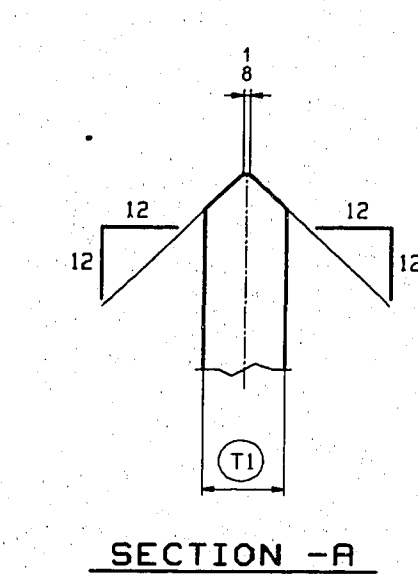
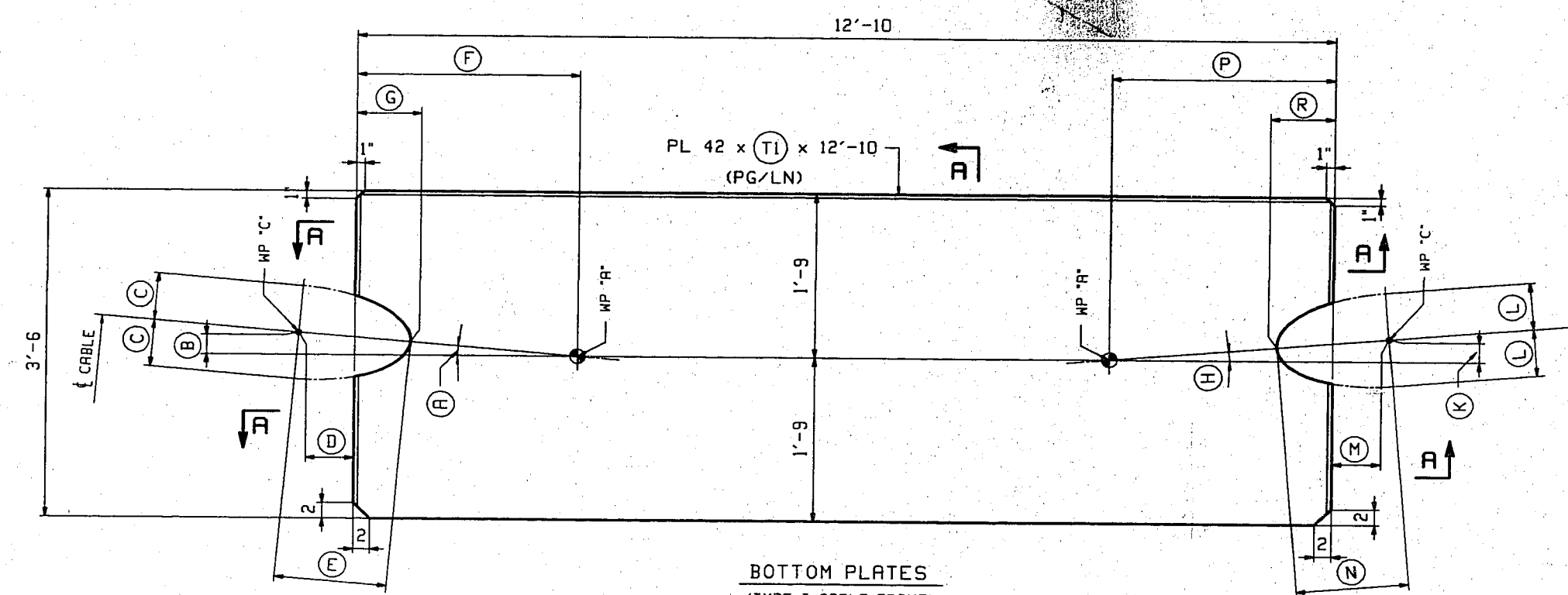


- NOTES:
- FOR GENERAL NOTES SEE DRAWING GNI
  - ALL MATERIAL TO BE M270 GR50 (FCM).  
(FCM - DENOTES FRACTURE CRITICAL MATERIAL)

CABLE FRAME STANDARDS			
VINCENNES STEEL CORP.			
VINCENNES, IND.			
Drawn	Checked	Approved	Revised
RB	TRM		
8/31/98	10/5/98		
U.S. 231 OVER THE OHIO RIVER AND INDIANA 66			
KENTUCKY D.O.H. / INDIANA D.O.T.			
DAVIESS COUNTY, KY / SPENCER COUNTY, IND			
PROJ. DDKBB 00101 001			
Shop Print SEE GNI			
Edge Distance AS NOTED Holes AS NOTED			
Contr. No.	671	Sh. X3	of

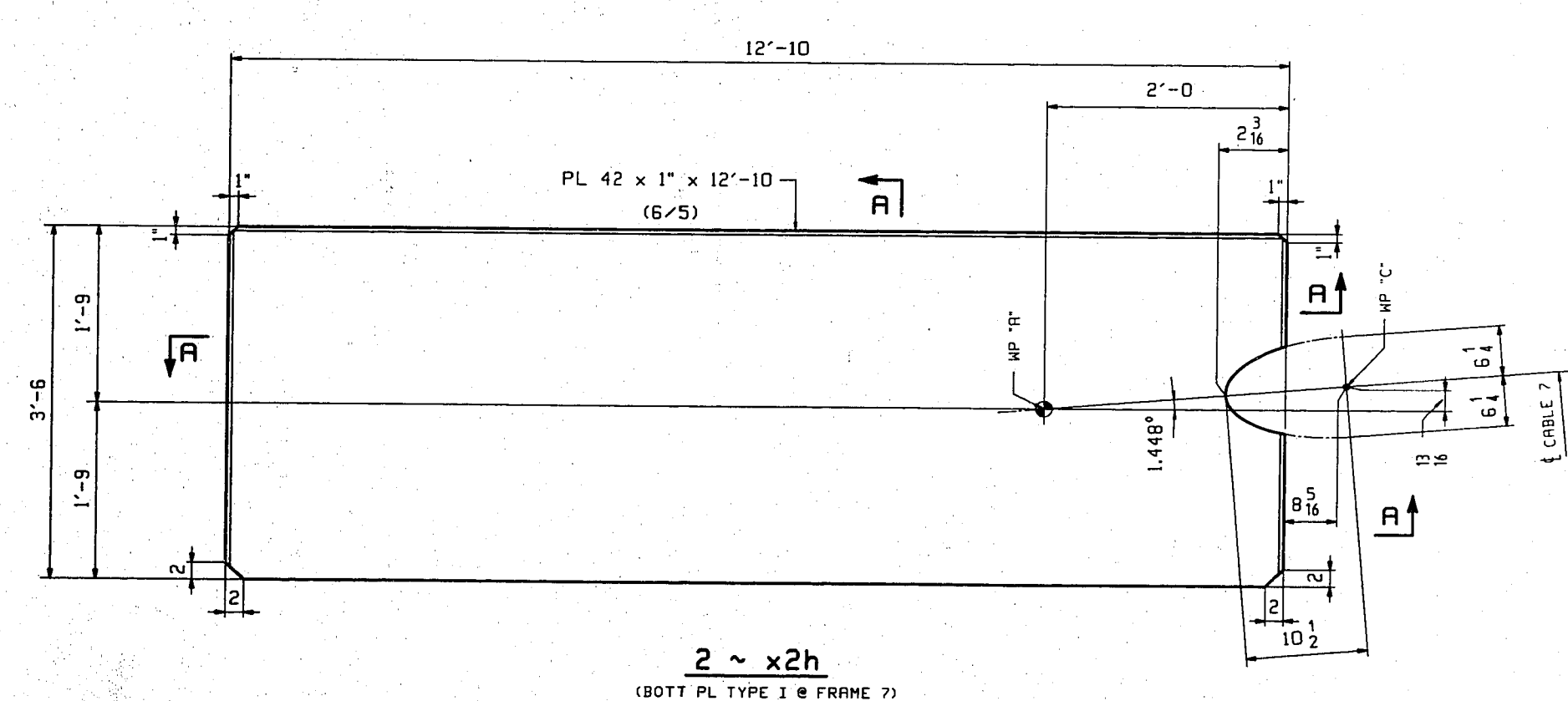
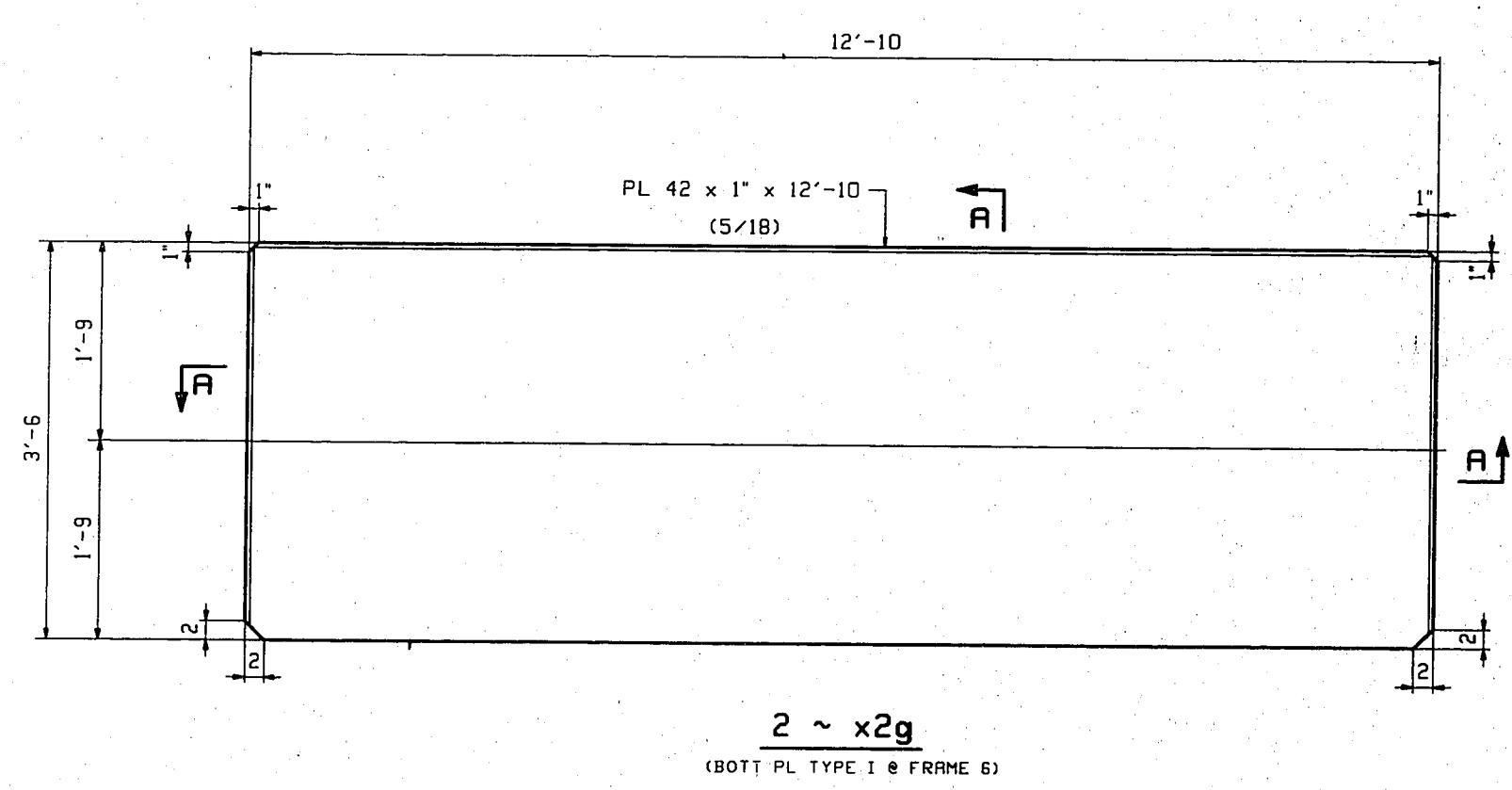
TENSON 1821-





**BOTTOM PLATES**  
(TYPE 1 CABLE FRAME)

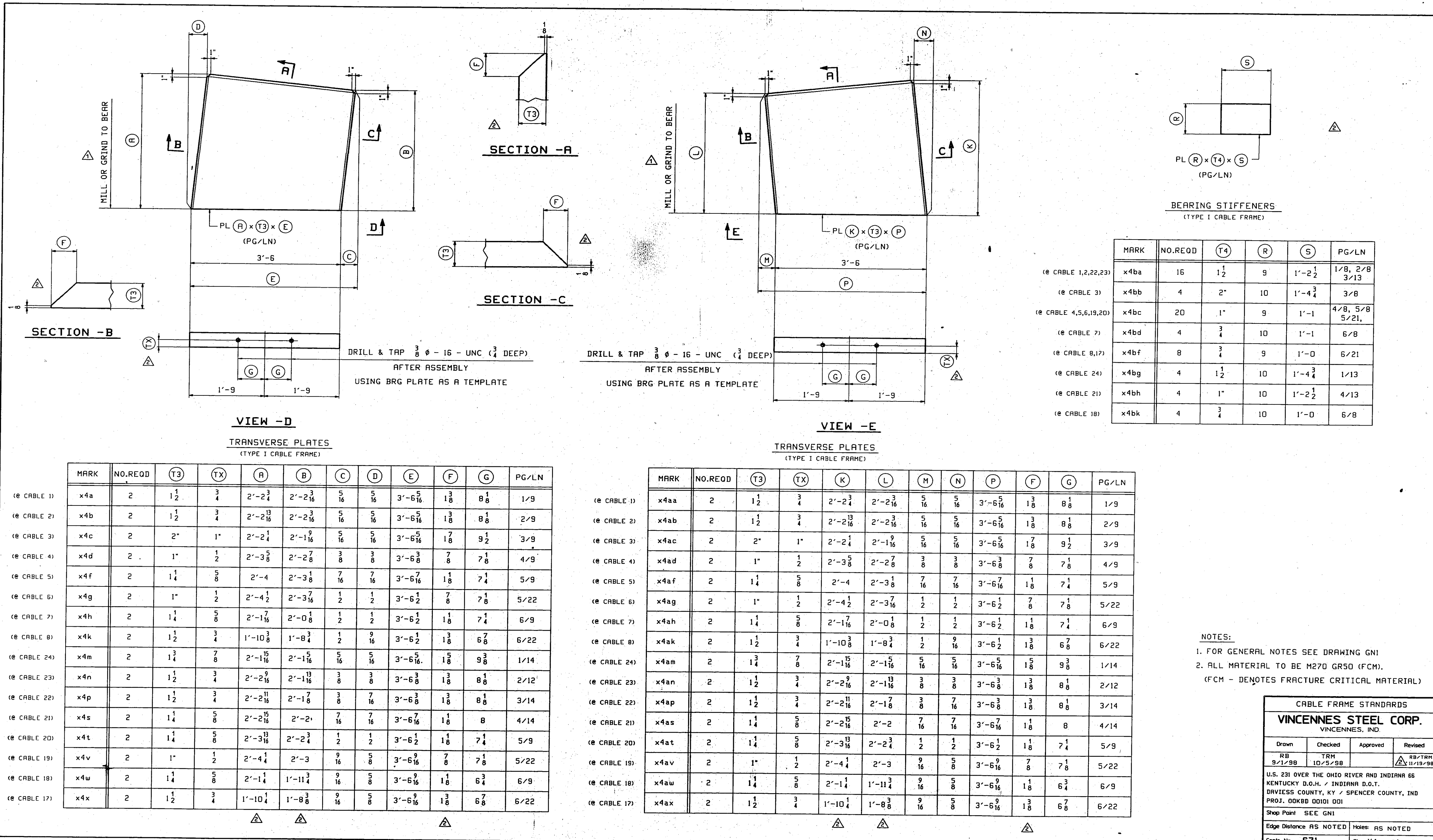
MARK	NO. REOD	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(K)	(L)	(M)	(N)	(P)	(R)	(T)	PG/LN	
(# FRAME 1)	x2a	2	0.807°	$\frac{9}{16}$	$7\frac{13}{16}$	$11\frac{15}{16}$	$1'-6\frac{5}{8}$	2'-3	$6\frac{11}{16}$	0.724°	$\frac{7}{16}$	$7\frac{1}{16}$	$9\frac{13}{16}$	$1'-2\frac{11}{16}$	2'-3	$8\frac{7}{8}$	$1\frac{3}{4}$	1/5
(# FRAME 2)	x2b	2	0.890°	$\frac{9}{16}$	$7\frac{1}{16}$	$10\frac{1}{8}$	$1'-4\frac{3}{16}$	2'-3	$6\frac{1}{16}$	0.749°	$\frac{7}{16}$	$7\frac{1}{16}$	$5\frac{3}{4}$	$1'-2\frac{11}{16}$	2'-3	$8\frac{15}{16}$	$1\frac{1}{2}$	2/5
(# FRAME 3)	x2c	2	0.990°	$\frac{5}{8}$	$7\frac{1}{16}$	$8\frac{1}{8}$	$1'-3\frac{1}{2}$	2'-3	$7\frac{3}{8}$	0.798°	$\frac{7}{16}$	$7\frac{13}{16}$	6"	$1'-4\frac{5}{16}$	2'-3	$10\frac{5}{16}$	$1\frac{3}{4}$	3/5
(# FRAME 4)	x2d	2	1.104°	$\frac{3}{4}$	$7\frac{1}{16}$	$1'-1\frac{1}{4}$	$1'-2\frac{3}{4}$	2'-3	$1\frac{1}{2}$	0.897°	$\frac{9}{16}$	$6\frac{1}{4}$	$10\frac{3}{4}$	$1'-0\frac{7}{16}$	2'-3	$11\frac{1}{16}$	$1\frac{1}{4}$	4/5
(# FRAME 5)	x2f	2	1.253°	$\frac{13}{16}$	$6\frac{1}{4}$	$10\frac{9}{16}$	$1'-0\frac{3}{8}$	2'-3	$\frac{13}{16}$	1.038°	$\frac{5}{8}$	$6\frac{1}{4}$	$8\frac{3}{16}$	$11\frac{13}{16}$	2'-3	$3\frac{5}{8}$	1"	5/5
(# FRAME 6)	x2k	2	1.967°	$\frac{7}{8}$	$5\frac{1}{4}$	$4\frac{3}{4}$	$9\frac{1}{4}$	1'-9	$5\frac{1}{16}$	1.758°	$\frac{3}{4}$	$5\frac{3}{4}$	$3\frac{1}{16}$	9"	1'-9	$5\frac{15}{16}$	1"	6/18



- NOTES:**
- FOR GENERAL NOTES SEE DRAWING GNI
  - ALL MATERIAL TO BE M270 GR50 (FCM).  
(FCM - DENOTES FRACTURE CRITICAL MATERIAL)

CABLE FRAME STANDARDS			
VINCENNES STEEL CORP.			
VINCENNES, IND.			
Drawn	Checked	Approved	Revised
RB	TRM		
8/21/98	10/5/98		
U.S. 231 OVER THE OHIO RIVER AND INDIANA 66			
KENTUCKY D.O.H. / INDIANA D.O.T.			
DAVIESS COUNTY, KY / SPENCER COUNTY, IND			
PROJ. DDK80 DD01 DD1			
Shop Point SEE GNI			
Edge Distance AS NOTED		Notes AS NOTED	
Contr. No. 671		Sh. X2 of	

TENSOR 1821-1



MARK	NO. REOD	(T4)	(R)	(S)	PG/LN
(e CABLE 1,2,22,23)	x4ba	16	1 1/2	9	1'-2 1/2 1/8, 2/8 3/13
(e CABLE 3)	x4bb	4	2"	10	1'-4 3/4 3/8
(e CABLE 4,5,6,19,20)	x4bc	20	1"	9	1'-1 4/8, 5/8 5/21
(e CABLE 7)	x4bd	4	3/4	10	1'-1 6/8
(e CABLE 8,17)	x4bf	8	3/4	9	1'-0 6/21
(e CABLE 24)	x4bg	4	1 1/2	10	1'-4 3/4 1/13
(e CABLE 21)	x4bh	4	1"	10	1'-2 1/2 4/13
(e CABLE 18)	x4bk	4	3/4	10	1'-0 6/8

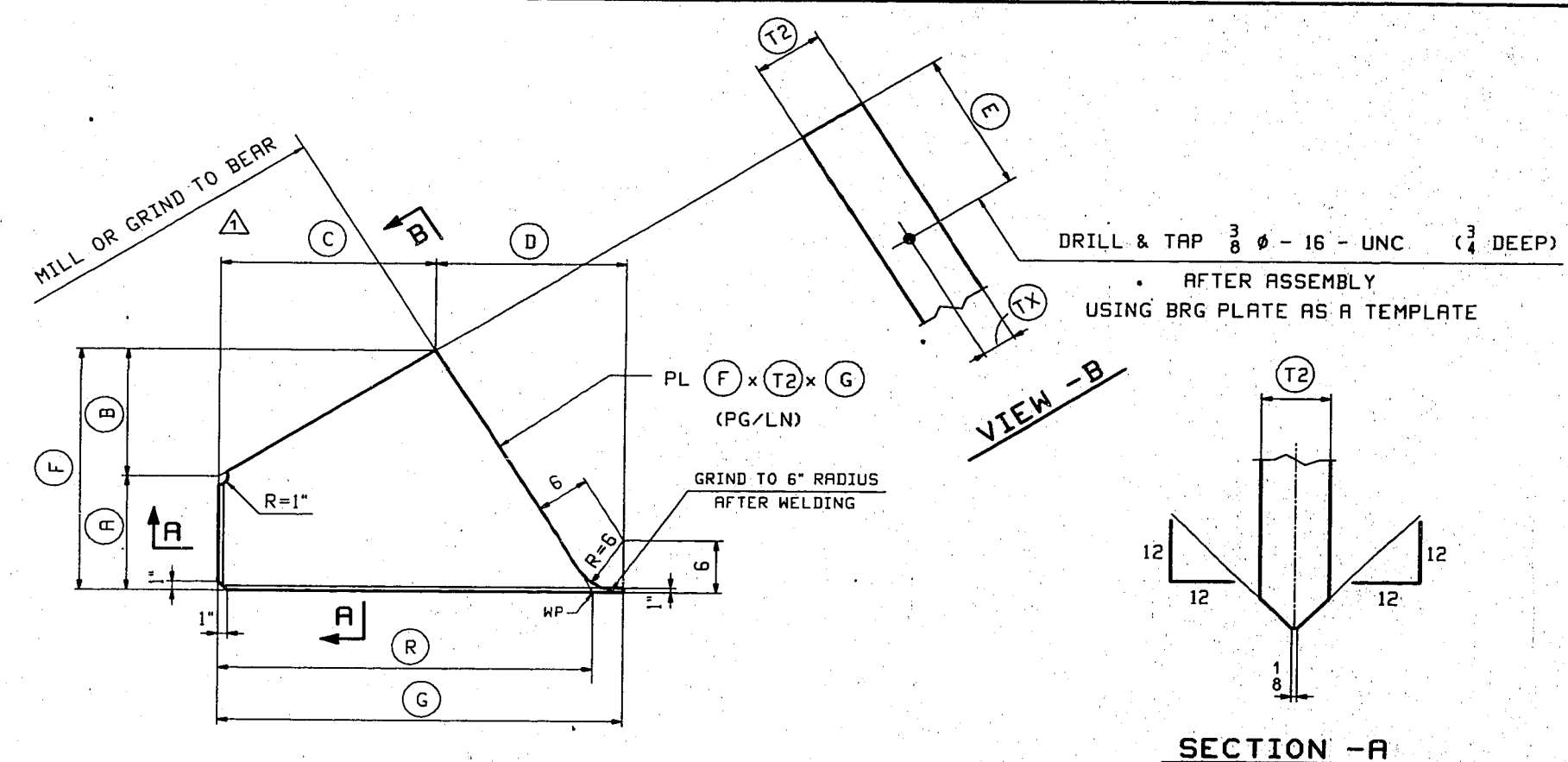
MARK	NO. REOD	(T3)	(TX)	(A)	(B)	(C)	(D)	(E)	(F)	(G)	PG/LN	
(e CABLE 1)	x4a	2	1 1/2	3/4	2'-2 3/4	2'-2 3/16	5/16	5/16	3'-5 5/16	1 3/8	8 1/8	1/9
(e CABLE 2)	x4b	2	1 1/2	3/4	2'-2 13/16	2'-2 3/16	5/16	5/16	3'-5 5/16	1 3/8	8 1/8	2/9
(e CABLE 3)	x4c	2	2"	1"	2'-2 1/16	2'-1 9/16	5/16	5/16	3'-5 5/16	7/8	9 1/2	3/9
(e CABLE 4)	x4d	2	1"	1/2	2'-3 5/8	2'-2 5/8	3/8	3/8	3'-5 5/8	7/8	7 1/8	4/9
(e CABLE 5)	x4f	2	1 1/4	5/8	2'-4	2'-3 1/8	7/16	7/16	3'-5 7/16	1 1/8	7 1/4	5/9
(e CABLE 6)	x4g	2	1"	1/2	2'-4 1/2	2'-3 7/16	1/2	1/2	3'-5 1/2	7/8	7 1/8	5/22
(e CABLE 7)	x4h	2	1 1/4	5/8	2'-1 7/16	2'-0 1/8	1/2	1/2	3'-5 1/2	1 1/8	7 1/4	6/9
(e CABLE 8)	x4k	2	1 1/2	3/4	1'-10 3/8	1'-8 3/4	1/2	9/16	3'-5 1/2	1 3/8	6 7/8	6/22
(e CABLE 24)	x4m	2	1 3/4	7/8	2'-1 15/16	2'-1 5/16	5/16	5/16	3'-5 5/16	1 5/8	9 3/8	1/14
(e CABLE 23)	x4n	2	1 1/2	3/4	2'-2 9/16	2'-1 13/16	3/8	3/8	3'-5 3/8	1 3/8	8 1/8	2/12
(e CABLE 22)	x4p	2	1 1/2	3/4	2'-2 11/16	2'-1 7/8	3/8	7/16	3'-5 3/8	1 3/8	8 1/8	3/14
(e CABLE 21)	x4s	2	1 1/4	5/8	2'-2 15/16	2'-2	7/16	7/16	3'-5 7/16	1 1/8	8	4/14
(e CABLE 20)	x4t	2	1 1/4	5/8	2'-3 13/16	2'-2 3/4	1/2	1/2	3'-5 1/2	1 1/8	7 1/4	5/9
(e CABLE 19)	x4v	2	1"	1/2	2'-4 1/4	2'-3	9/16	5/8	3'-5 9/16	7/8	7 1/8	5/22
(e CABLE 18)	x4w	2	1 1/4	5/8	2'-1 1/4	1'-11 3/4	9/16	5/8	3'-5 9/16	1 1/8	6 3/4	6/9
(e CABLE 17)	x4x	2	1 1/2	3/4	1'-10 1/4	1'-8 3/8	9/16	5/8	3'-5 9/16	1 3/8	6 5/8	6/22

MARK	NO. REOD	(T3)	(TX)	(K)	(L)	(M)	(N)	(P)	(F)	(G)	PG/LN	
(e CABLE 1)	x4aa	2	1 1/2	3/4	2'-2 3/4	2'-2 3/16	5/16	5/16	3'-5 5/16	1 3/8	8 1/8	1/9
(e CABLE 2)	x4ab	2	1 1/2	3/4	2'-2 13/16	2'-2 3/16	5/16	5/16	3'-5 5/16	1 3/8	8 1/8	2/9
(e CABLE 3)	x4ac	2	2"	1"	2'-2 1/4	2'-1 9/16	5/16	5/16	3'-5 5/16	7/8	9 1/2	3/9
(e CABLE 4)	x4ad	2	1"	1/2	2'-3 5/8	2'-2 7/8	3/8	3/8	3'-5 5/8	7/8	7 1/8	4/9
(e CABLE 5)	x4af	2	1 1/4	5/8	2'-4	2'-3 1/8	7/16	7/16	3'-5 7/16	1 1/8	7 1/4	5/9
(e CABLE 6)	x4ag	2	1"	1/2	2'-4 1/2	2'-3 7/16	1/2	1/2	3'-5 1/2	7/8	7 1/8	5/22
(e CABLE 7)	x4ah	2	1 1/4	5/8	2'-1 7/16	2'-0 1/8	1/2	1/2	3'-5 1/2	1 1/8	7 1/4	6/9
(e CABLE 8)	x4ak	2	1 1/2	3/4	1'-10 3/8	1'-8 3/4	1/2	9/16	3'-5 1/2	1 3/8	6 7/8	6/22
(e CABLE 24)	x4am	2	1 3/4	7/8	2'-1 15/16	2'-1 5/16	5/16	5/16	3'-5 5/16	1 5/8	9 3/8	1/14
(e CABLE 23)	x4an	2	1 1/2	3/4	2'-2 9/16	2'-1 13/16	3/8	3/8	3'-5 3/8	1 3/8	8 1/8	2/12
(e CABLE 22)	x4ap	2	1 1/2	3/4	2'-2 11/16	2'-1 7/8	3/8	7/16	3'-5 3/8	1 3/8	8 1/8	3/14
(e CABLE 21)	x4as	2	1 1/4	5/8	2'-2 15/16	2'-2	7/16	7/16	3'-5 7/16	1 1/8	8	4/14
(e CABLE 20)	x4at	2	1 1/4	5/8	2'-3 13/16	2'-2 3/4	1/2	1/2	3'-5 1/2	1 1/8	7 1/4	5/9
(e CABLE 19)	x4av	2	1"	1/2	2'-4 1/4	2'-3	9/16	5/8	3'-5 9/16	7/8	7 1/8	5/22
(e CABLE 18)	x4aw	2	1 1/4	5/8	2'-1 1/4	1'-11 3/4	9/16	5/8	3'-5 9/16	1 1/8	6 3/4	6/9
(e CABLE 17)	x4ax	2	1 1/2	3/4	1'-10 1/4	1'-8 3/8	9/16	5/8	3'-5 9/16	1 3/8	6 5/8	6/22

NOTES:  
 1. FOR GENERAL NOTES SEE DRAWING GNI  
 2. ALL MATERIAL TO BE M270 GR50 (FCM).  
 (FCM - DENOTES FRACTURE CRITICAL MATERIAL)

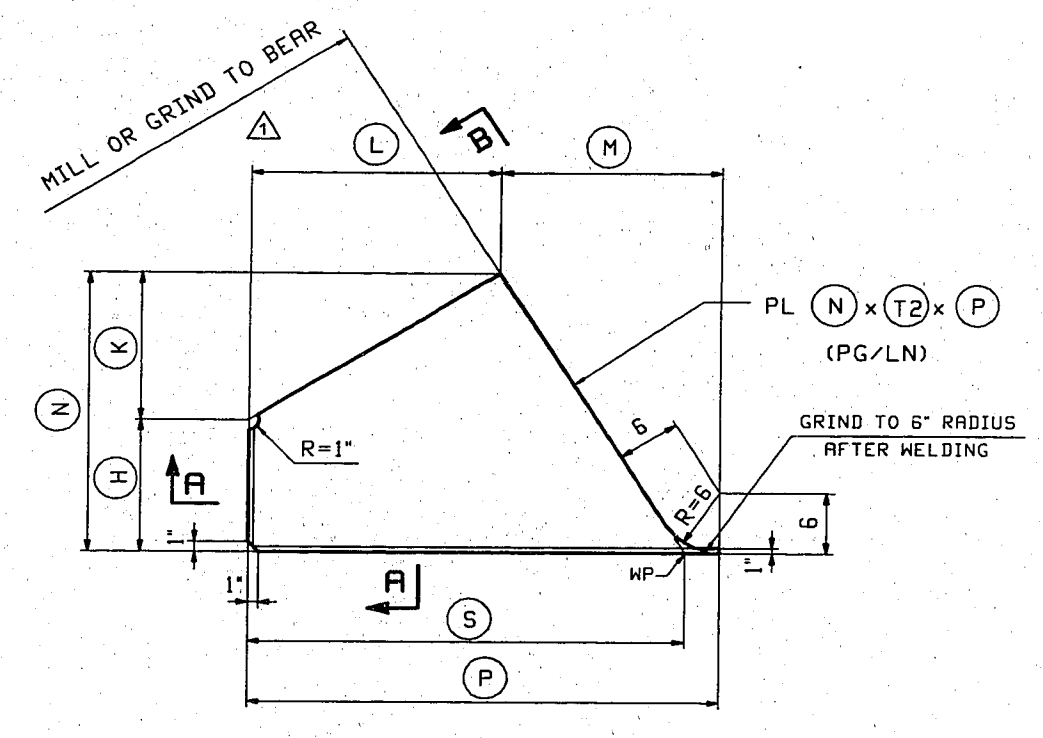
CABLE FRAME STANDARDS			
VINCENNES STEEL CORP.			
VINCENNES, IND.			
Drawn	Checked	Approved	Revised
RB	TRM		RB/TRM
3/2/98	10/5/98		11/19/98
U.S. 238 OVER THE OHIO RIVER AND INDIANA 66			
KENTUCKY D.O.H. / INDIANA D.O.T.			
DAVIESS COUNTY, KY / SPENCER COUNTY, IND			
PROJ. 00KBB 00101 001			
Shop Point SEE GNI			
Edge Distance AS NOTED		Holes AS NOTED	
Contr. No. 671		Sh. X4 .. of	





STIFFENERS  
(TYPE 1 CABLE FRAME)

MARK	NO. REOD	A	B	C	D	E	TX	T2	F	G	R	PG/LN	
(e) CABLE 1)	x5a	4	1'-0 <sup>3</sup> / <sub>16</sub>	1'-0 <sup>11</sup> / <sub>16</sub>	1'-11 <sup>3</sup> / <sub>16</sub>	1'-9 <sup>3</sup> / <sub>16</sub>	1'-4 <sup>1</sup> / <sub>4</sub>	3/4	1 <sup>1</sup> / <sub>2</sub>	2'-0 <sup>7</sup> / <sub>8</sub>	3'-4 <sup>3</sup> / <sub>8</sub>	3'-0 <sup>13</sup> / <sub>16</sub>	1/10
(e) CABLE 2)	x5b	4	1'-0 <sup>3</sup> / <sub>16</sub>	1'-0 <sup>11</sup> / <sub>16</sub>	1'-11 <sup>1</sup> / <sub>8</sub>	1'-9 <sup>3</sup> / <sub>16</sub>	1'-4 <sup>1</sup> / <sub>4</sub>	3/4	1 <sup>1</sup> / <sub>2</sub>	2'-0 <sup>7</sup> / <sub>8</sub>	3'-4 <sup>5</sup> / <sub>16</sub>	3'-0 <sup>1</sup> / <sub>4</sub>	2/10
(e) CABLE 3)	x5c	4	1'-1 <sup>7</sup> / <sub>16</sub>	1'-0 <sup>3</sup> / <sub>8</sub>	1'-10 <sup>11</sup> / <sub>16</sub>	1'-9 <sup>9</sup> / <sub>16</sub>	1'-6 <sup>1</sup> / <sub>2</sub>	1"	2"	2'-1 <sup>13</sup> / <sub>16</sub>	3'-4 <sup>1</sup> / <sub>4</sub>	3'-0 <sup>11</sup> / <sub>16</sub>	3/10
(e) CABLE 4)	x5d	4	1'-2 <sup>1</sup> / <sub>4</sub>	1'-1 <sup>11</sup> / <sub>16</sub>	1'-11 <sup>1</sup> / <sub>2</sub>	1'-7 <sup>5</sup> / <sub>8</sub>	1'-2	1/2	1"	2'-3 <sup>15</sup> / <sub>16</sub>	3'-7 <sup>1</sup> / <sub>8</sub>	3'-3 <sup>11</sup> / <sub>16</sub>	4/10
(e) CABLE 5)	x5f	4	1'-1 <sup>5</sup> / <sub>16</sub>	1'-2 <sup>9</sup> / <sub>16</sub>	1'-11 <sup>5</sup> / <sub>16</sub>	1'-8 <sup>5</sup> / <sub>8</sub>	1'-2	5/8	1 <sup>1</sup> / <sub>4</sub>	2'-3 <sup>7</sup> / <sub>8</sub>	3'-1 <sup>15</sup> / <sub>16</sub>	3'-4 <sup>5</sup> / <sub>8</sub>	5/10
(e) CABLE 6)	x5g	4	1'-4 <sup>1</sup> / <sub>4</sub>	1'-3 <sup>9</sup> / <sub>16</sub>	1'-11 <sup>1</sup> / <sub>16</sub>	2'-0 <sup>1</sup> / <sub>2</sub>	1'-2	1/2	1"	2'-7 <sup>13</sup> / <sub>16</sub>	3'-9 <sup>9</sup> / <sub>16</sub>	3'-8 <sup>3</sup> / <sub>8</sub>	5/23
(e) CABLE 7)	x5h	4	1'-3	1'-2 <sup>11</sup> / <sub>16</sub>	1'-7 <sup>13</sup> / <sub>16</sub>	2'-0 <sup>13</sup> / <sub>16</sub>	1'-7 <sup>7</sup> / <sub>8</sub>	5/8	1 <sup>1</sup> / <sub>4</sub>	2'-5 <sup>11</sup> / <sub>16</sub>	3'-8 <sup>5</sup> / <sub>8</sub>	3'-5 <sup>5</sup> / <sub>8</sub>	6/10
(e) CABLE 8)	x5k	4	11 <sup>7</sup> / <sub>8</sub>	1'-11 <sup>1</sup> / <sub>16</sub>	1'-4 <sup>7</sup> / <sub>16</sub>	1'-11 <sup>1</sup> / <sub>2</sub>	1'-1 <sup>7</sup> / <sub>8</sub>	3/4	1 <sup>1</sup> / <sub>2</sub>	2'-1 <sup>9</sup> / <sub>16</sub>	3'-4 <sup>3</sup> / <sub>16</sub>	3'-1 <sup>3</sup> / <sub>8</sub>	6/23
(e) CABLE 24)	x5m	4	1'-3 <sup>5</sup> / <sub>16</sub>	10 <sup>11</sup> / <sub>16</sub>	1'-11 <sup>3</sup> / <sub>16</sub>	1'-3 <sup>13</sup> / <sub>16</sub>	1'-6 <sup>1</sup> / <sub>4</sub>	7/8	1 <sup>1</sup> / <sub>2</sub>	2'-2	3'-3	2'-11 <sup>1</sup> / <sub>16</sub>	1/15
(e) CABLE 23)	x5n	4	1'-1 <sup>11</sup> / <sub>16</sub>	11 <sup>3</sup> / <sub>8</sub>	1'-11 <sup>1</sup> / <sub>2</sub>	1'-3 <sup>7</sup> / <sub>8</sub>	1'-4 <sup>1</sup> / <sub>4</sub>	3/4	1 <sup>1</sup> / <sub>2</sub>	2'-1 <sup>1</sup> / <sub>16</sub>	3'-3 <sup>3</sup> / <sub>8</sub>	2'-11 <sup>8</sup> / <sub>16</sub>	2/13
(e) CABLE 22)	x5p	4	1'-1 <sup>1</sup> / <sub>16</sub>	11 <sup>15</sup> / <sub>16</sub>	1'-11 <sup>5</sup> / <sub>16</sub>	1'-4 <sup>7</sup> / <sub>16</sub>	1'-4 <sup>1</sup> / <sub>4</sub>	3/4	1 <sup>1</sup> / <sub>2</sub>	2'-1	3'-3 <sup>1</sup> / <sub>4</sub>	3'-0 <sup>1</sup> / <sub>16</sub>	3/15
(e) CABLE 21)	x5s	4	1'-4 <sup>5</sup> / <sub>16</sub>	1'-0 <sup>5</sup> / <sub>8</sub>	1'-11 <sup>1</sup> / <sub>8</sub>	1'-7 <sup>1</sup> / <sub>4</sub>	1'-4	5/8	1 <sup>1</sup> / <sub>4</sub>	2'-4 <sup>15</sup> / <sub>16</sub>	3'-3 <sup>3</sup> / <sub>8</sub>	3'-1 <sup>13</sup> / <sub>16</sub>	4/15
(e) CABLE 20)	x5t	4	1'-2 <sup>5</sup> / <sub>16</sub>	1'-1 <sup>1</sup> / <sub>16</sub>	1'-11 <sup>7</sup> / <sub>16</sub>	1'-7 <sup>3</sup> / <sub>4</sub>	1'-2	5/8	1 <sup>1</sup> / <sub>4</sub>	2'-4	3'-2 <sup>3</sup> / <sub>16</sub>	3'-3 <sup>1</sup> / <sub>4</sub>	5/10
(e) CABLE 19)	x5v	4	1'-5 <sup>1</sup> / <sub>8</sub>	1'-2 <sup>3</sup> / <sub>4</sub>	1'-11 <sup>3</sup> / <sub>16</sub>	1'-11 <sup>1</sup> / <sub>2</sub>	1'-2	1/2	1"	2'-7 <sup>7</sup> / <sub>8</sub>	3'-10 <sup>11</sup> / <sub>16</sub>	3'-7 <sup>3</sup> / <sub>8</sub>	5/23
(e) CABLE 18)	x5w	4	1'-3 <sup>13</sup> / <sub>16</sub>	1'-2	1'-7 <sup>15</sup> / <sub>16</sub>	1'-11 <sup>7</sup> / <sub>8</sub>	1'-1 <sup>7</sup> / <sub>8</sub>	5/8	1 <sup>1</sup> / <sub>4</sub>	2'-5 <sup>13</sup> / <sub>16</sub>	3'-7 <sup>13</sup> / <sub>16</sub>	3'-4 <sup>11</sup> / <sub>16</sub>	6/10
(e) CABLE 17)	x5x	4	1'-0 <sup>1</sup> / <sub>2</sub>	1'-1 <sup>1</sup> / <sub>8</sub>	1'-4 <sup>9</sup> / <sub>16</sub>	1'-10 <sup>15</sup> / <sub>16</sub>	1'-1 <sup>7</sup> / <sub>8</sub>	3/4	1 <sup>1</sup> / <sub>2</sub>	2'-1 <sup>5</sup> / <sub>8</sub>	3'-3 <sup>1</sup> / <sub>2</sub>	3'-0 <sup>5</sup> / <sub>8</sub>	6/23



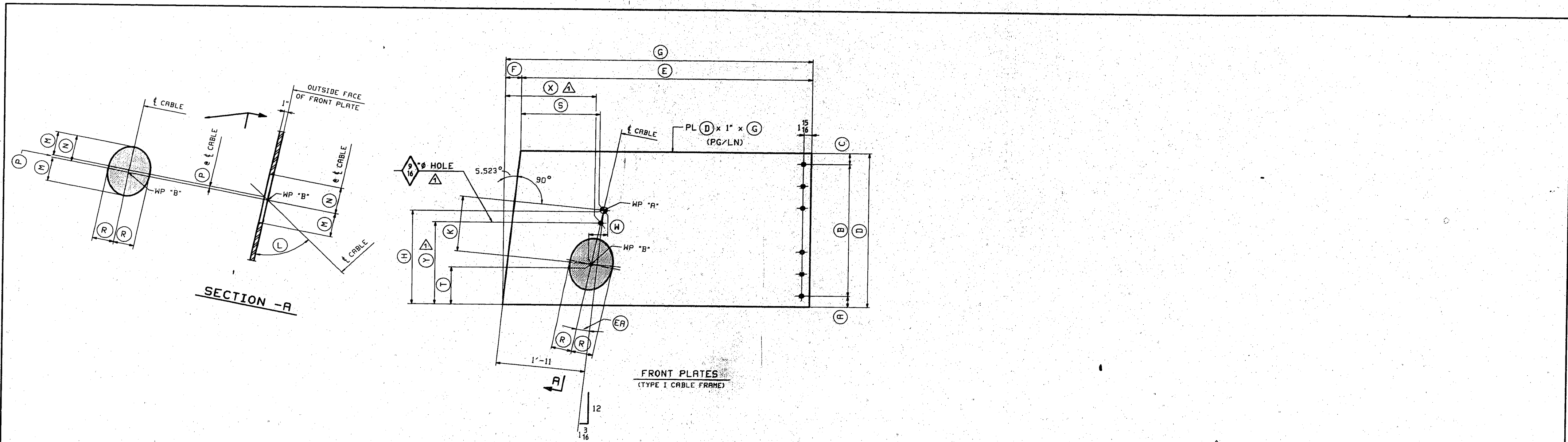
STIFFENERS  
(TYPE 1 CABLE FRAME)

MARK	NO. REOD	H	K	L	M	E	TX	T2	N	P	S	PG/LN	
(e) CABLE 1)	x5aa	4	11 <sup>7</sup> / <sub>8</sub>	1'-0 <sup>13</sup> / <sub>16</sub>	1'-11 <sup>3</sup> / <sub>8</sub>	1'-5 <sup>3</sup> / <sub>16</sub>	1'-4 <sup>1</sup> / <sub>4</sub>	3/4	1 <sup>1</sup> / <sub>2</sub>	2'-0 <sup>11</sup> / <sub>16</sub>	3'-4 <sup>9</sup> / <sub>16</sub>	3'-1	1/10
(e) CABLE 2)	x5ab	4	11 <sup>7</sup> / <sub>8</sub>	1'-0 <sup>13</sup> / <sub>16</sub>	1'-11 <sup>3</sup> / <sub>8</sub>	1'-5 <sup>3</sup> / <sub>16</sub>	1'-4 <sup>1</sup> / <sub>4</sub>	3/4	1 <sup>1</sup> / <sub>2</sub>	2'-0 <sup>11</sup> / <sub>16</sub>	3'-4 <sup>9</sup> / <sub>16</sub>	3'-1	2/10
(e) CABLE 3)	x5ac	4	1'-1 <sup>1</sup> / <sub>8</sub>	1'-0 <sup>7</sup> / <sub>16</sub>	1'-10 <sup>15</sup> / <sub>16</sub>	1'-5 <sup>9</sup> / <sub>16</sub>	1'-6 <sup>1</sup> / <sub>2</sub>	1"	2"	2'-1 <sup>9</sup> / <sub>16</sub>	3'-4 <sup>1</sup> / <sub>2</sub>	3'-0 <sup>15</sup> / <sub>16</sub>	3/10
(e) CABLE 4)	x5ad	4	1'-1 <sup>7</sup> / <sub>8</sub>	1'-1 <sup>13</sup> / <sub>16</sub>	1'-11 <sup>11</sup> / <sub>16</sub>	1'-7 <sup>5</sup> / <sub>8</sub>	1'-2	1/2	1"	2'-11 <sup>11</sup> / <sub>16</sub>	3'-7 <sup>5</sup> / <sub>16</sub>	3'-3 <sup>7</sup> / <sub>8</sub>	4/10
(e) CABLE 5)	x5af	4	1'-0 <sup>7</sup> / <sub>8</sub>	1'-2 <sup>11</sup> / <sub>16</sub>	1'-11 <sup>9</sup> / <sub>16</sub>	1'-8 <sup>5</sup> / <sub>8</sub>	1'-2	5/8	1 <sup>1</sup> / <sub>4</sub>	2'-3 <sup>9</sup> / <sub>16</sub>	3'-8 <sup>3</sup> / <sub>16</sub>	3'-4 <sup>7</sup> / <sub>8</sub>	5/10
(e) CABLE 6)	x5ag	4	1'-3 <sup>5</sup> / <sub>8</sub>	1'-3 <sup>3</sup> / <sub>4</sub>	1'-11 <sup>3</sup> / <sub>8</sub>	2'-0 <sup>1</sup> / <sub>2</sub>	1'-2	1/2	1"	2'-7 <sup>3</sup> / <sub>8</sub>	3'-11 <sup>7</sup> / <sub>8</sub>	3'-8 <sup>11</sup> / <sub>16</sub>	5/23
(e) CABLE 7)	x5ah	4	1'-2 <sup>3</sup> / <sub>16</sub>	1'-2 <sup>15</sup> / <sub>16</sub>	1'-8 <sup>1</sup> / <sub>8</sub>	2'-0 <sup>13</sup> / <sub>16</sub>	1'-1 <sup>7</sup> / <sub>8</sub>	5/8	1 <sup>1</sup> / <sub>4</sub>	2'-5 <sup>1</sup> / <sub>8</sub>	3'-1 <sup>15</sup> / <sub>16</sub>	3'-5 <sup>15</sup> / <sub>16</sub>	6/10
(e) CABLE 8)	x5ak	4	10 <sup>13</sup> / <sub>16</sub>	1'-2	1'-4 <sup>7</sup> / <sub>8</sub>	1'-11 <sup>3</sup> / <sub>4</sub>	1'-1 <sup>7</sup> / <sub>8</sub>	3/4	1 <sup>1</sup> / <sub>2</sub>	2'-0 <sup>13</sup> / <sub>16</sub>	3'-4 <sup>5</sup> / <sub>8</sub>	3'-1 <sup>13</sup> / <sub>16</sub>	6/23
(e) CABLE 24)	x5am	4	1'-3	10 <sup>13</sup> / <sub>16</sub>	1'-11 <sup>7</sup> / <sub>16</sub>	1'-3 <sup>13</sup> / <sub>16</sub>	1'-6 <sup>1</sup> / <sub>4</sub>	7/8	1 <sup>1</sup> / <sub>4</sub>	2'-1 <sup>13</sup> / <sub>16</sub>	3'-3 <sup>1</sup> / <sub>4</sub>	2'-11 <sup>7</sup> / <sub>16</sub>	1/15
(e) CABLE 23)	x5an	4	1'-1 <sup>8</sup> / <sub>16</sub>	11 <sup>1</sup> / <sub>2</sub>	1'-11 <sup>3</sup> / <sub>4</sub>	1'-3 <sup>7</sup> / <sub>8</sub>	1'-4 <sup>1</sup> / <sub>4</sub>	3/4	1 <sup>1</sup> / <sub>2</sub>	2'-0 <sup>7</sup> / <sub>8</sub>	3'-3 <sup>5</sup> / <sub>8</sub>	2'-11 <sup>7</sup> / <sub>8</sub>	2/13
(e) CABLE 22)	x5ap	4	1'-0 <sup>11</sup> / <sub>16</sub>	1'-0 <sup>1</sup> / <sub>16</sub>	1'-11 <sup>5</sup> / <sub>8</sub>	1'-4 <sup>7</sup> / <sub>16</sub>	1'-4 <sup>1</sup> / <sub>4</sub>	3/4	1 <sup>1</sup> / <sub>2</sub>	2'-0 <sup>3</sup> / <sub>4</sub>	3'-4 <sup>1</sup> / <sub>16</sub>	3'-0 <sup>3</sup> / <sub>8</sub>	3/15
(e) CABLE 21)	x5as	4	1'-3 <sup>7</sup> / <sub>8</sub>	1'-0 <sup>13</sup> / <sub>16</sub>	1'-11 <sup>1</sup> / <sub>16</sub>	1'-7 <sup>1</sup> / <sub>4</sub>	1'-4	5/8	1 <sup>1</sup> / <sub>4</sub>	2'-4 <sup>11</sup> / <sub>16</sub>	3'-8 <sup>11</sup> / <sub>16</sub>	3'-3 <sup>1</sup> / <sub>8</sub>	4/15
(e) CABLE 20)	x5at	4	1'-1 <sup>1</sup> / <sub>2</sub>	1'-1 <sup>7</sup> / <sub>8</sub>	1'-11 <sup>1</sup> / <sub>4</sub>	1'-7 <sup>1</sup> / <sub>4</sub>	1'-2	5/8	1 <sup>1</sup> / <sub>4</sub>	2'-3 <sup>5</sup> / <sub>8</sub>	3'-7 <sup>1</sup> / <sub>2</sub>	3'-4 <sup>1</sup> / <sub>16</sub>	5/10
(e) CABLE 19)	x5av	4	1'-4 <sup>1</sup> / <sub>2</sub>	1'-3	1'-11 <sup>7</sup> / <sub>8</sub>	1'-11 <sup>1</sup> / <sub>2</sub>	1'-2	1/2	1"	2'-7 <sup>1</sup> / <sub>2</sub>	3'-11 <sup>1</sup> / <sub>16</sub>	3'-7 <sup>1</sup> / <sub>2</sub>	5/23
(e) CABLE 18)	x5aw	4	1'-2 <sup>15</sup> / <sub>16</sub>	1'-2 <sup>1</sup> / <sub>4</sub>	1'-8 <sup>5</sup> / <sub>16</sub>	1'-11 <sup>7</sup> / <sub>8</sub>	1'-1 <sup>7</sup> / <sub>8</sub>	5/8	1 <sup>1</sup> / <sub>4</sub>	2'-5 <sup>3</sup> / <sub>16</sub>	3'-8 <sup>3</sup> / <sub>16</sub>	3'-5 <sup>1</sup> / <sub>16</sub>	6/10
(e) CABLE 17)	x5ax	4	11 <sup>3</sup> / <sub>8</sub>	1'-1 <sup>1</sup> / <sub>2</sub>	1'-5	1'-10 <sup>15</sup> / <sub>16</sub>	1'-1 <sup>7</sup> / <sub>8</sub>	3/4	1 <sup>1</sup> / <sub>2</sub>	2'-0 <sup>7</sup> / <sub>8</sub>	3'-3 <sup>15</sup> / <sub>16</sub>	3'-1 <sup>1</sup> / <sub>16</sub>	6/23

NOTES:  
1. FOR GENERAL NOTES SEE DRAWING GNI  
2. ALL MATERIAL TO BE M270 GR50 (FCM).  
(FCM - DENOTES FRACTURE CRITICAL MATERIAL)

CABLE FRAME STANDARDS			
VINCENNES STEEL CORP.			
VINCENNES, IND.			
Drawn	Checked	Approved	Revised
RB	TRM		RB/TRM
9/1/98	10/2/98		11/10/98
U.S. 231 OVER THE OHIO RIVER AND INDIANA 66			
KENTUCKY D.O.H. / INDIANA D.O.T.			
DAVIESS COUNTY, KY - SPENCER COUNTY, IND			
PROJ. 00KBD 00101 001			
Shop Paint SEE GNI			
Edge Distance AS NOTED		Notes AS NOTED	
Contr. No.	671	Sh	X5 of

1/3



MARK	NO. REOD	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(K)	(L)	(M)	(N)	(P)	(R)	(S)	(T)	(W)	(EP)	PG/LN	(X)	(Y)	
(CABLE 1)	x6a	4	3	6 @ 6 = 3'-0	3	3'-6	6'-2 3/4	4 1/16	6'-6 13/16	2'-2	1'-3 3/8	51.272°	8 1/16	8 5/8	9 1/16	7 1/16	1'-9 3/16	10 3/4	1 3/4	1.3206°	1/3	2'-1 1/2	2'-0 13/16
(CABLE 2)	x6b	4	3	6 @ 6 = 3'-0	3	3'-6	6'-11 1/2	4 1/16	7'-3 3/16	2'-2	1'-3 3/8	51.216°	8 1/16	8 5/8	9 1/16	7 1/16	1'-9 9/16	10 3/4	1 13/16	1.3630°	2/3	2'-1 1/2	2'-0 3/4
(CABLE 3)	x6c	4	4	6 @ 6 = 3'-0	4	3'-8	7'-8	4 1/4	8'-0 1/4	2'-2	1'-3 1/4	51.413°	8 7/8	9 7/16	9 1/16	7 13/16	1'-9 3/8	10 13/16	1 13/16	1.4641°	3/3	2'-1 5/8	2'-2
(CABLE 4)	x6d	4	4	6 @ 6 = 3'-0	4	3'-8	8'-5	4 1/4	8'-9 1/4	2'-5	1'-4 5/16	59.765°	7 1/4	7 13/16	9 1/16	6 1/4	1'-9 11/16	1'-0 13/16	1 15/16	1.5386°	4/3	2'-1 5/8	2'-1 13/16
(CABLE 5)	x6f	4	4	6 @ 6 = 3'-0	4	3'-8	9'-11 1/16	4 1/4	9'-5 15/16	2'-5	1'-5 1/2	58.022°	7 3/8	8	5 5/8	6 1/4	1'-9 11/16	11 5/8	2 1/8	1.6620°	5/3	2'-1 3/8	2'-0 13/16
(CABLE 6)	x6g	4	2	7 @ 6 = 3'-6	2	3'-10	9'-9 3/8	4 7/16	10'-9 3/8	2'-9	1'-6 7/8	55.992°	7 9/16	8 1/4	11 1/16	6 1/4	1'-9 7/16	1'-2 1/4	2 5/16	1.8045°	5/16	2'-1 5/8	2'-3 5/16
(CABLE 7)	x6h	4	4	6 @ 6 = 3'-0	4	3'-8	10'-8 7/16	4 1/4	11'-0 11/16	2'-7	1'-6 9/16	53.417°	7 13/16	8 9/16	3 4/4	6 1/4	1'-9 7/8	1'-0 7/16	2 5/16	1.9500°	6/3	2'-1 1/2	2'-2 3/16
(CABLE 8)	x6k	4	2	6 @ 6 = 3'-0	2	3'-4	11'-6 5/16	3 7/8	11'-10 3/16	2'-3	1'-5 5/16	50.272°	7 1/2	8 5/16	13 1/16	5 3/4	1'-9 7/8	8 7/8	2 5/16	2.1141°	6/16	2'-1 1/16	1'-10 1/16
(CABLE 24)	x6m	4	3	6 @ 6 = 3'-0	3	3'-6	6'-2 3/4	4 1/16	6'-6 13/16	2'-2	1'-0 15/16	65.202°	8 5/8	9 1/16	7 1/16	7 13/16	1'-9 9/16	1'-1 3/16	1 9/16	1.7461°	1/3	2'-1 7/8	2'-3 15/16
(CABLE 23)	x6n	4	3	6 @ 6 = 3'-0	3	3'-6	6'-11 1/2	4 1/16	7'-3 3/16	2'-2	1'-11 9/16	64.119°	7 7/8	8 3/8	1 2/16	7 1/16	1'-9 9/16	1'-0 7/16	1 5/8	1.8337°	2/3	2'-1 11/16	2'-2 5/16
(CABLE 22)	x6p	4	4	6 @ 6 = 3'-0	4	3'-8	7'-8	4 1/4	8'-0 1/4	2'-2	1'-2 5/16	62.884°	7 15/16	8 7/16	1 2/16	7 1/16	1'-9 3/8	11 1/2	1 1/2	1.9325°	3/3	2'-1 9/16	2'-1 5/8
(CABLE 21)	x6s	4	4	6 @ 6 = 3'-0	4	3'-8	8'-5	4 1/4	8'-9 1/4	2'-5	1'-3 5/16	61.353°	8 1/16	8 5/8	9 1/16	7 1/16	1'-9 11/16	1'-13 1/16	1 15/16	2.0200°	4/3	2'-1 3/4	2'-3 13/16
(CABLE 20)	x6t	4	4	6 @ 6 = 3'-0	4	3'-8	9'-11 1/16	4 1/4	9'-5 15/16	2'-5	1'-4 3/8	59.648°	7 1/4	7 13/16	9 1/16	6 1/4	1'-9 11/16	1'-0 3/4	2 1/16	2.1386°	5/3	2'-1 1/2	2'-1 3/4
(CABLE 19)	x6v	4	2	7 @ 6 = 3'-6	2	3'-10	9'-11 3/16	4 7/16	10'-3 5/8	2'-9	1'-5 7/8	57.492°	7 7/16	8 1/16	5 8/16	6 1/4	1'-9 7/8	1'-5 5/16	2 5/16	2.2394°	5/16	2'-1 11/16	2'-1 1/4
(CABLE 18)	x6w	4	4	6 @ 6 = 3'-0	4	3'-8	10'-8 7/16	4 1/4	11'-0 11/16	2'-7	1'-5 9/16	54.881°	7	7 11/16	11 1/16	5 3/4	1'-9 7/8	1'-1 9/16	2 5/16	2.3615°	6/3	2'-1 7/16	2'-2 1/4
(CABLE 17)	x6x	4	2	6 @ 6 = 3'-0	2	3'-4	11'-6 5/16	3 7/8	11'-10 3/16	2'-3	1'-5 1/2	51.533°	7 3/8	8 3/16	13 1/16	5 3/4	1'-9 7/8	9 11/16	2 5/16	2.4738°	6/16	2'-1 1/8	1'-10 1/16

- NOTES:
- FOR GENERAL NOTES SEE DRAWING GNI
  - ALL MATERIAL TO BE M270 GR50 (FCM).  
(FCM - DENOTES FRACTURE CRITICAL MATERIAL)
  - ALL HOLES TO BE [DR] (UN).

REVISION TO ADD GUIDE PIPE SETTING INFO.

CABLE FRAME STANDARDS

**VINCENNES STEEL CORP.**  
VINCENNES, IND.

Drawn	Checked	Approved	Revised
RB	TRM	HL/HHJ	HL/HHJ
8/1/98	10/2/98		9/27/99

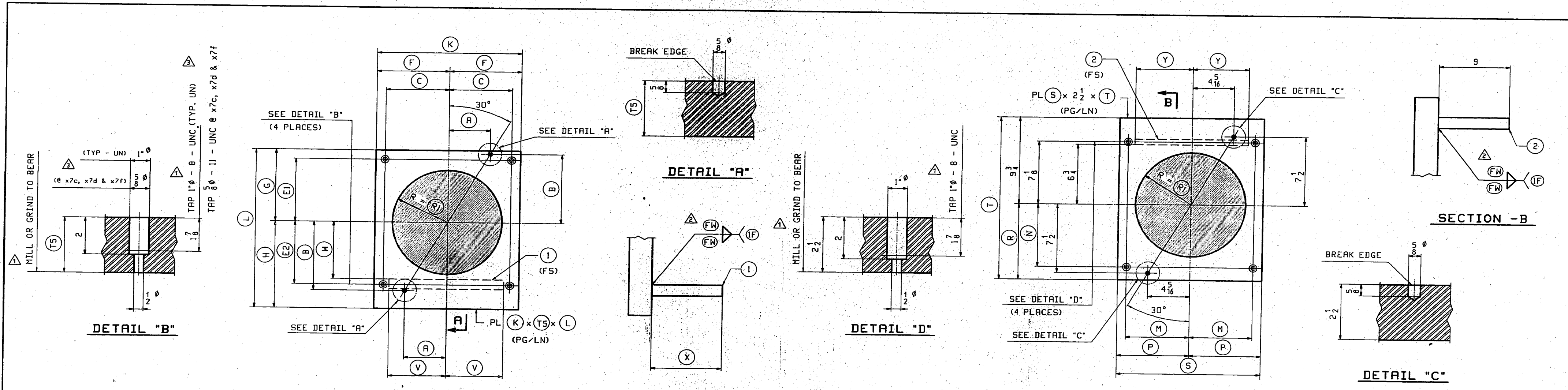
116. 231 OVER THE OHIO RIVER AND INDIANA 66  
KENTUCKY D.O.M. / INDIANA D.O.T.  
DAVIESS COUNTY, KY / SPENCER COUNTY, IND  
PROJ. 00KBD 00101 001

Shop Print SEE GNI

Edge Distance AS NOTED Holes: 1/16" @ (UN)

Contr. No. **671** Sh. X6 of



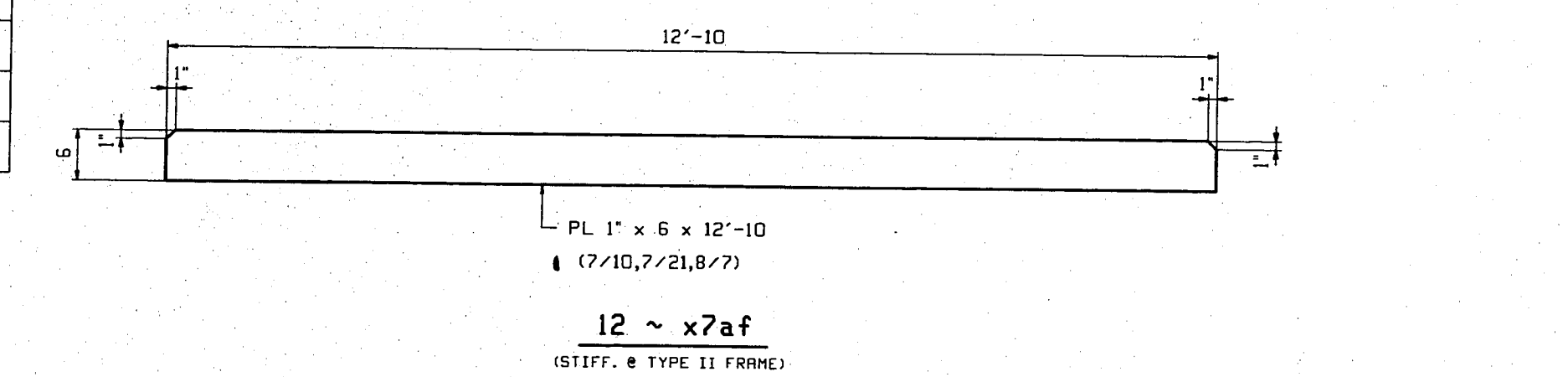
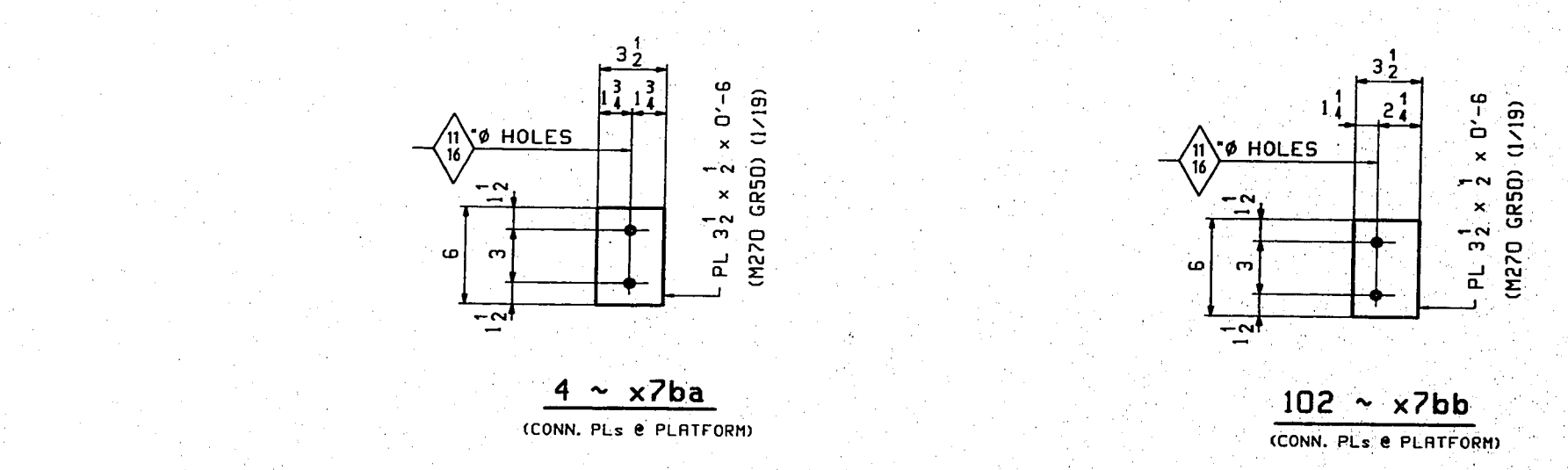


BEARING PLATES  
(TYPE I CABLE FRAME)

MARK	NO. REQD	(A)	(B)	(C)	(E1)	(E2)	(F)	(G)	(H)	(TS)	(K)	(L)	(R1)	(V)	(M)	(X)	(FM)	(I)	PG/LN
(e CABLE 1,2) x7a	16	5/8	9/8	8/8	8/2	8/2	9/4	10/4	11/4	3	1'-6 1/2	1'-10	7/16	7/4	7/4	9	5	x4ba	1/7, 2/7 3/12
(e CABLE 3) x7b	4	5/8	9/8	9/2	9/2	9/2	10/2	11/2	1'-1 1/4	3/4	1'-9 1/2	2'-12	7/16	8/8	8/4	10	3	x4bb	3/7
(e CABLE 4,6,19) x7c	12	4 1/16	7 1/2	7/8	7 1/4	7 1/4	7 3/4	8 1/4	10 1/4	3	1'-3 1/2	1'-7	6 1/4	6 1/2	6 3/4	9	1/2	x4bc	4/7,5/20
(e CABLE 5,20) x7d	8	4 1/16	7 1/2	7/4	7/8	7 1/4	8	9	10 1/4	3	1'-4	1'-7 1/4	6 1/4	6 1/2	6 3/4	9	1/2	x4bc	5/7
(e CABLE 7) x7f	4	4 1/16	7 1/2	7/4	7/8	7/8	8	9	9 1/2	3	1'-4	1'-6 3/4	6 1/4	6 1/2	6 3/4	10	7/16	x4bd	6/7
(e CABLE 8,17) x7g	8	4 1/16	7 1/2	6/8	7 1/2	7/8	8 1/4	9 1/4	9 1/2	3	1'-4 1/2	1'-7	5 1/4	6	6 3/4	9	7/16	x4bf	6/20
(e CABLE 24) x7h	4	5/8	9/8	9/8	9 1/2	9 1/2	10 1/2	11 1/2	1'-0 1/4	3/4	1'-9	2'-0 1/4	7/8	8/8	8/4	10	11/16	x4bg	1/12
(e CABLE 21) x7k	4	5/8	9/8	1	8 3/8	8 1/4	9	10	11 1/4	3	1'-6	1'-9 1/4	7 1/16	7 1/4	7 3/4	10	1/2	x4bh	4/12
(e CABLE 18) x7m	4	4 1/16	7 1/2	6 3/4	7/8	7/8	8	9	9 1/4	3	1'-4	1'-6 3/4	5 1/4	6	6 3/4	10	7/16	x4bk	6/7

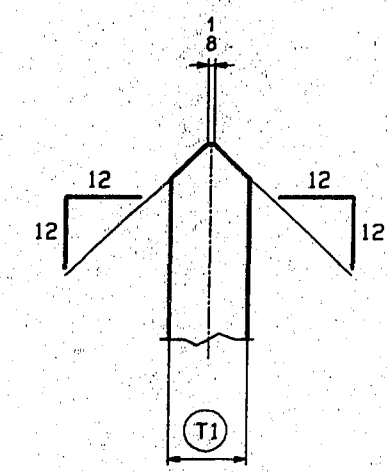
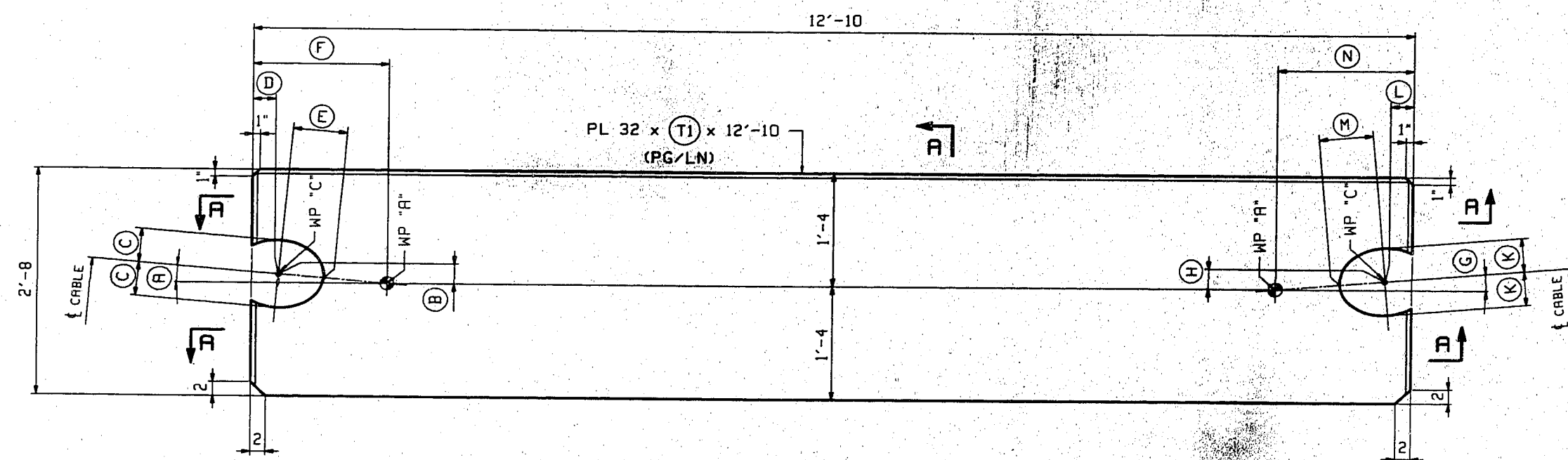
BEARING PLATES  
(TYPE II CABLE FRAME)

MARK	NO. REQD	(M)	(N)	(P)	(R)	(S)	(T)	(R1)	(Y)	(FM)	(2)	PG/LN
(e CABLE 9,10) x7aa	16	6/8	7/8	8 1/4	9"	1'-4 1/2	1'-6 3/4	5 3/4	6	7/16	x9aa	7/8,7/23
(e CABLE 11,14) x7ab	8	5/8	7/4	8"	8 1/4	1'-4	1'-6 1/2	4/8	5 1/8	5/16	x9ab	8/9
(e CABLE 12,13) x7ac	8	6 3/4	7 1/4	8"	8 1/4	1'-4	1'-6 1/2	5 1/4	6	7/16	x9ac	8/22



NOTES:  
1. FOR GENERAL NOTES SEE DRAWING GNI  
2. ALL MATERIAL TO BE M270 GR50 (FCM) (UN).  
(FCM - DENOTES FRACTURE CRITICAL MATERIAL)

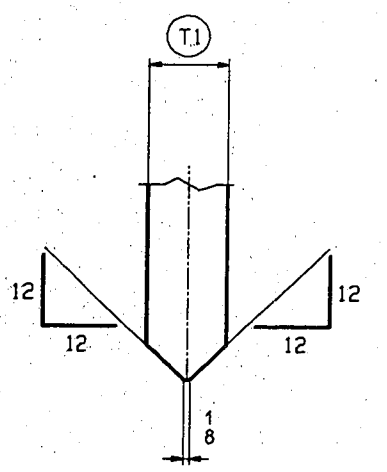
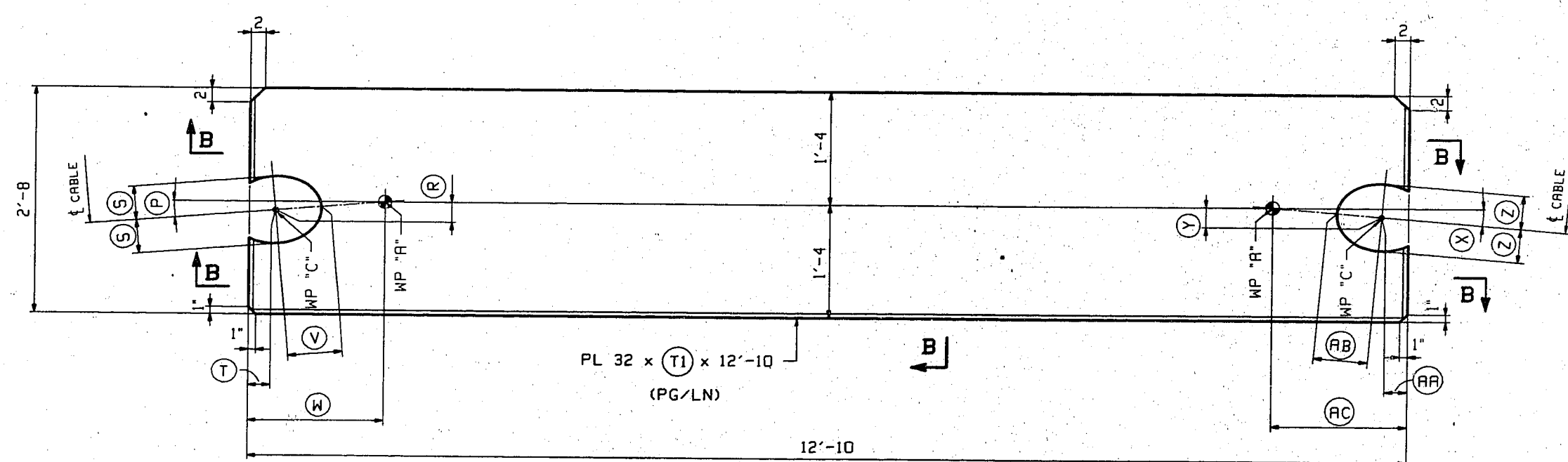
CABLE FRAME STANDARDS			
VINCENNES STEEL CORP.			
VINCENNES, IND.			
Drawn	Checked	Approved	Revised
RB	TRW		RB/TRW
9/2/88	10/3/88		2/4/88
U.S. 231 OVER THE OHIO RIVER AND INDIANA 66			
KENTUCKY D.O.M. / INDIANA D.O.I.			
BAYLISS COUNTY, KY / SPENCER COUNTY, IND			
PROJ. 00K8D 00101 001			
Shop Print SEE GNI			
Edge Distance AS NOTED Holes AS NOTED			
Contr. No. 671	Sh. X7	of	



SECTION -A

BOTTOM PLATES  
(TYPE II CABLE FRAME)

MARK	NO. REOD	A	B	C	D	E	F	G	H	K	L	M	N	O	PG/LN	
(e FRAME 9)	xBa	2	2.279°	3/4	5/4	9/16	8/16	1'-9"	2.068°	11/16	5/4	2 5/16	8 5/16	1'-9"	1/2	7/6
(e FRAME 10)	xBb	2	2.913°	7/8	5/4	2"	7 11/16	1'-6"	2.701°	3/4	5/4	2 1/2	7 9/16	1'-6"	1 1/4	7/20
(e FRAME 11)	xBc	2	4.017°	15/16	4 7/8	1 7/16	5 7/8	1'-3"	3.803°	7/8	4 7/8	1 3/4	5 7/8	1'-3"	3/4	8/6
(e FRAME 12)	xBd	2	6.352°	1 3/16	5 3/4	4 1/4	6 5/16	1'-3"	6.151°	1 1/8	5 3/4	4 7/16	6 5/16	1'-3"	3/4	8/20



SECTION -B

BOTTOM PLATES  
(TYPE II CABLE FRAME)

MARK	NO. REOD	P	R	S	T	V	W	X	Y	Z	AA	AB	AC	AD	PG/LN	
(e FRAME 9)	xBaa	2	2.279°	3/4	5/4	9/16	8 7/16	1'-9"	2.068°	11/16	5/4	2 5/16	8 5/16	1'-9"	1/2	7/6
(e FRAME 10)	xBab	2	2.913°	7/8	5/4	2"	7 11/16	1'-6"	2.701°	3/4	5/4	2 1/2	7 9/16	1'-6"	1 1/4	7/20
(e FRAME 11)	xBac	2	4.017°	15/16	4 7/8	1 7/16	5 7/8	1'-3"	3.803°	7/8	4 7/8	1 3/4	5 7/8	1'-3"	3/4	8/6
(e FRAME 12)	xBad	2	6.352°	1 3/16	5 3/4	4 1/4	6 5/16	1'-3"	6.151°	1 1/8	5 3/4	4 7/16	6 5/16	1'-3"	3/4	8/20

- NOTES:  
 1. FOR GENERAL NOTES SEE DRAWING GNI  
 2. ALL MATERIAL TO BE M270 GR50 (FCM).  
 (FCM - DENOTES FRACTURE CRITICAL MATERIAL)

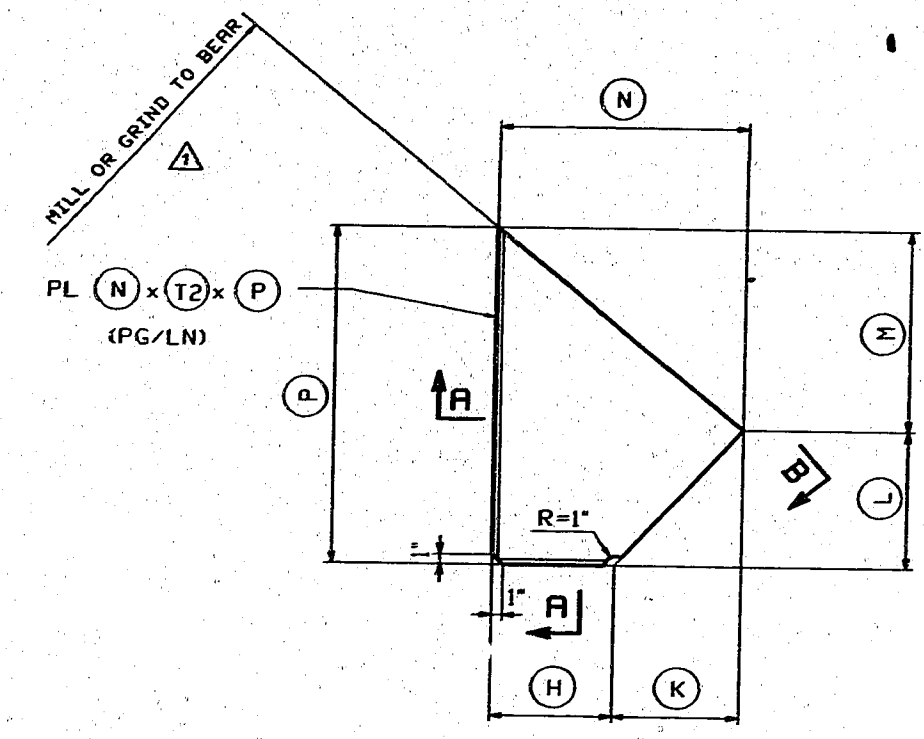
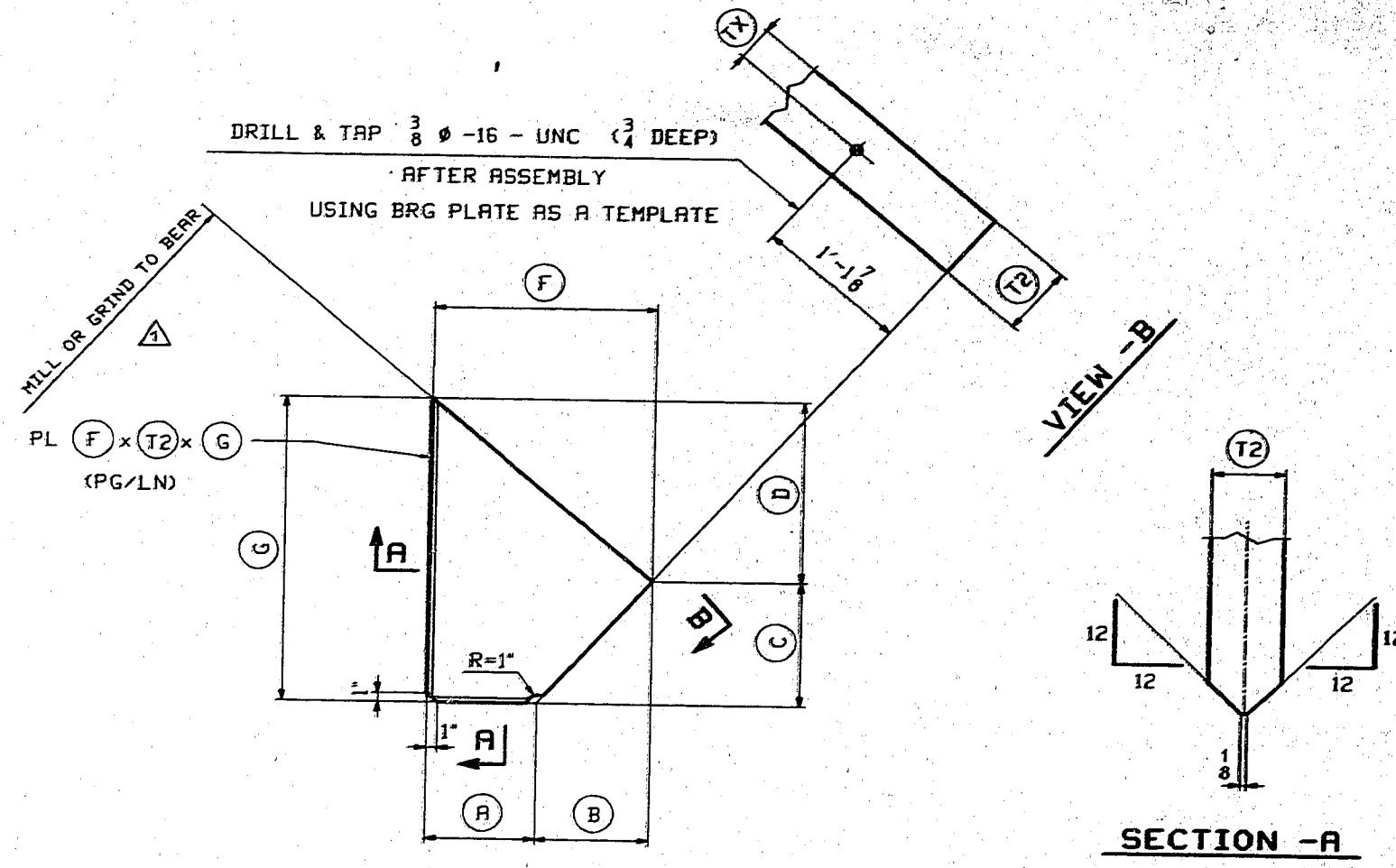
CABLE FRAME STANDARDS  
**VINCENNES STEEL CORP.**  
 VINCENNES, IND.

Drawn	Checked	Approved	Revised
RB	TRP		
3/22/98	10/6/98		

U.S. 231 OVER THE OHIO RIVER AND INDIANA 66  
 KENTUCKY D.O.M. / INDIANA D.O.I.  
 DAVENESS COUNTY, KY / SPENCER COUNTY, IND  
 PROJ. 00KBD 00101 001  
 Shop Paint SEE GNI  
 Edge Distance AS NOTED Holes AS NOTED  
 Cont. No. 671 Sh. X8 of

TENSOR 1821-1



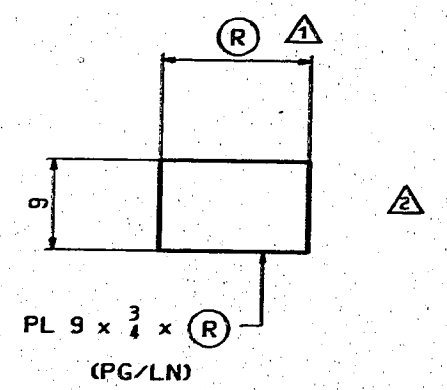


STIFFENERS  
(TYPE II CABLE FRAME)

MARK	NO. REQD	(A)	(B)	(C)	(D)	(TX)	(T2)	(F)	(G)	PG/LN	
(CABLE 9)	x9a	4	11 <sup>13</sup> / <sub>16</sub>	1'-1 <sup>5</sup> / <sub>8</sub>	1'-1 <sup>1</sup> / <sub>2</sub>	2'-2 <sup>7</sup> / <sub>16</sub>	3/4	1 <sup>1</sup> / <sub>2</sub>	2'-1 <sup>7</sup> / <sub>16</sub>	3'-3 <sup>9</sup> / <sub>16</sub>	7/12
(CABLE 10)	x9b	4	11 <sup>1</sup> / <sub>16</sub>	11 <sup>11</sup> / <sub>16</sub>	1'-1 <sup>9</sup> / <sub>16</sub>	1'-7 <sup>5</sup> / <sub>8</sub>	3/4	1 <sup>1</sup> / <sub>2</sub>	1'-10 <sup>3</sup> / <sub>4</sub>	2'-9 <sup>3</sup> / <sub>16</sub>	7/26
(CABLE 11)	x9c	4	9 <sup>1</sup> / <sub>2</sub>	10 <sup>13</sup> / <sub>16</sub>	1'-4 <sup>5</sup> / <sub>16</sub>	1'-1 <sup>7</sup> / <sub>16</sub>	5/8	1 <sup>1</sup> / <sub>4</sub>	1'-8 <sup>5</sup> / <sub>16</sub>	2'-5 <sup>3</sup> / <sub>4</sub>	8/12
(CABLE 12)	x9d	4	11	9 <sup>7</sup> / <sub>16</sub>	1'-9 <sup>5</sup> / <sub>16</sub>	9 <sup>1</sup> / <sub>16</sub>	5/8	1 <sup>1</sup> / <sub>4</sub>	1'-8 <sup>7</sup> / <sub>16</sub>	2'-6 <sup>3</sup> / <sub>8</sub>	8/25
(CABLE 16)	x9f	4	11 <sup>1</sup> / <sub>8</sub>	1'-2 <sup>1</sup> / <sub>8</sub>	1'-1 <sup>1</sup> / <sub>16</sub>	2'-3 <sup>1</sup> / <sub>4</sub>	3/4	1 <sup>1</sup> / <sub>2</sub>	2'-1 <sup>1</sup> / <sub>4</sub>	3'-4 <sup>5</sup> / <sub>16</sub>	7/12
(CABLE 15)	x9g	4	10 <sup>11</sup> / <sub>16</sub>	1'-0	1'-1 <sup>1</sup> / <sub>2</sub>	1'-8 <sup>11</sup> / <sub>16</sub>	3/4	1 <sup>1</sup> / <sub>2</sub>	1'-10 <sup>11</sup> / <sub>16</sub>	2'-9 <sup>11</sup> / <sub>16</sub>	7/26
(CABLE 14)	x9h	4	9 <sup>3</sup> / <sub>16</sub>	11"	1'-4 <sup>3</sup> / <sub>16</sub>	1'-1 <sup>11</sup> / <sub>16</sub>	5/8	1 <sup>1</sup> / <sub>4</sub>	1'-8 <sup>3</sup> / <sub>16</sub>	2'-5 <sup>7</sup> / <sub>8</sub>	8/12
(CABLE 13)	x9k	4	10 <sup>7</sup> / <sub>8</sub>	9 <sup>3</sup> / <sub>16</sub>	1'-9 <sup>5</sup> / <sub>16</sub>	9 <sup>3</sup> / <sub>16</sub>	5/8	1 <sup>1</sup> / <sub>4</sub>	1'-8 <sup>1</sup> / <sub>16</sub>	2'-6 <sup>1</sup> / <sub>2</sub>	8/25

STIFFENERS  
(TYPE II CABLE FRAME)

MARK	NO. REQD	(H)	(K)	(L)	(M)	(TX)	(T2)	(N)	(P)	PG/LN	
(CABLE 9)	x9m	4	1'-0 <sup>5</sup> / <sub>16</sub>	1'-1 <sup>5</sup> / <sub>8</sub>	1'-1 <sup>1</sup> / <sub>8</sub>	2'-2 <sup>15</sup> / <sub>16</sub>	3/4	1 <sup>1</sup> / <sub>2</sub>	2'-1 <sup>15</sup> / <sub>16</sub>	3'-4 <sup>1</sup> / <sub>16</sub>	7/12
(CABLE 10)	x9n	4	11 <sup>3</sup> / <sub>4</sub>	11 <sup>11</sup> / <sub>16</sub>	1'-1 <sup>9</sup> / <sub>16</sub>	1'-8 <sup>3</sup> / <sub>16</sub>	3/4	1 <sup>1</sup> / <sub>2</sub>	1'-11 <sup>7</sup> / <sub>16</sub>	2'-9 <sup>3</sup> / <sub>4</sub>	7/26
(CABLE 11)	x9p	4	10 <sup>13</sup> / <sub>16</sub>	10 <sup>13</sup> / <sub>16</sub>	1'-4 <sup>5</sup> / <sub>16</sub>	1'-1 <sup>15</sup> / <sub>16</sub>	5/8	1 <sup>1</sup> / <sub>4</sub>	1'-9	2'-6 <sup>1</sup> / <sub>4</sub>	8/12
(CABLE 12)	x9s	4	1'-0 <sup>1</sup> / <sub>2</sub>	9 <sup>7</sup> / <sub>16</sub>	1'-9 <sup>5</sup> / <sub>16</sub>	9 <sup>3</sup> / <sub>4</sub>	5/8	1 <sup>1</sup> / <sub>4</sub>	1'-9 <sup>15</sup> / <sub>16</sub>	2'-7 <sup>1</sup> / <sub>16</sub>	8/25
(CABLE 16)	x9t	4	11 <sup>3</sup> / <sub>4</sub>	1'-2 <sup>1</sup> / <sub>8</sub>	1'-1 <sup>1</sup> / <sub>16</sub>	2'-3 <sup>15</sup> / <sub>16</sub>	3/4	1 <sup>1</sup> / <sub>2</sub>	2'-1 <sup>7</sup> / <sub>8</sub>	3'-5	7/12
(CABLE 15)	x9v	4	11 <sup>3</sup> / <sub>8</sub>	1'-0	1'-1 <sup>1</sup> / <sub>2</sub>	1'-8 <sup>13</sup> / <sub>16</sub>	3/4	1 <sup>1</sup> / <sub>2</sub>	1'-11 <sup>3</sup> / <sub>8</sub>	2'-10 <sup>5</sup> / <sub>16</sub>	7/26
(CABLE 14)	x9w	4	10	11"	1'-4 <sup>3</sup> / <sub>16</sub>	1'-2 <sup>5</sup> / <sub>16</sub>	5/8	1 <sup>1</sup> / <sub>4</sub>	1'-9	2'-6 <sup>1</sup> / <sub>2</sub>	8/12
(CABLE 13)	x9x	4	1'-0 <sup>3</sup> / <sub>8</sub>	9 <sup>9</sup> / <sub>16</sub>	1'-9 <sup>5</sup> / <sub>16</sub>	9 <sup>7</sup> / <sub>8</sub>	5/8	1 <sup>1</sup> / <sub>4</sub>	1'-9 <sup>15</sup> / <sub>16</sub>	2'-7 <sup>3</sup> / <sub>16</sub>	8/25



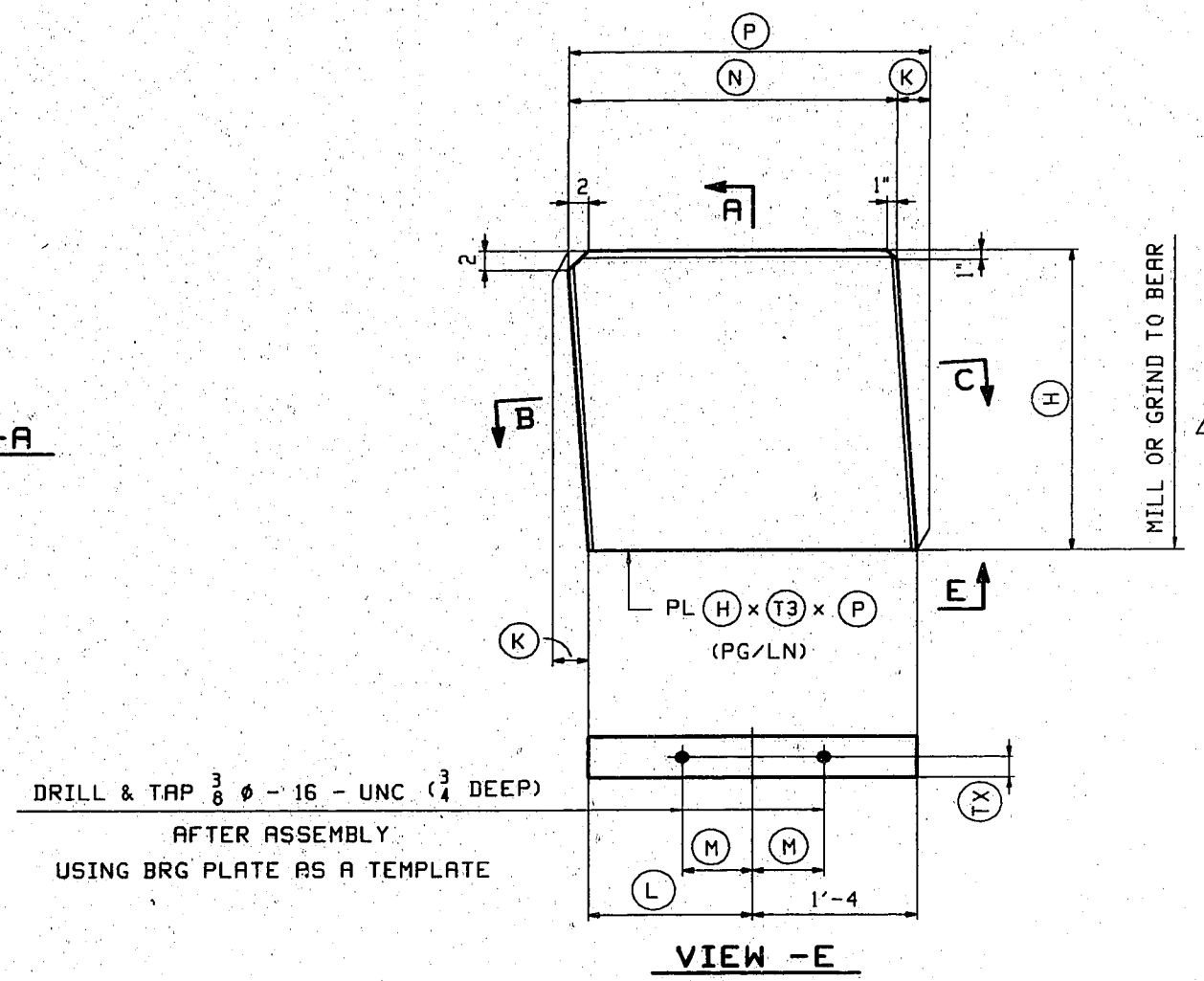
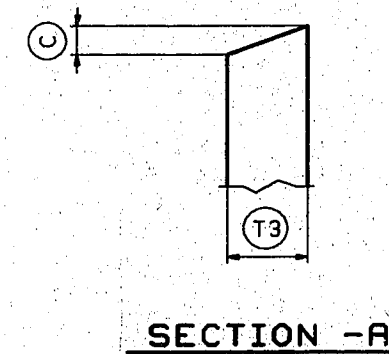
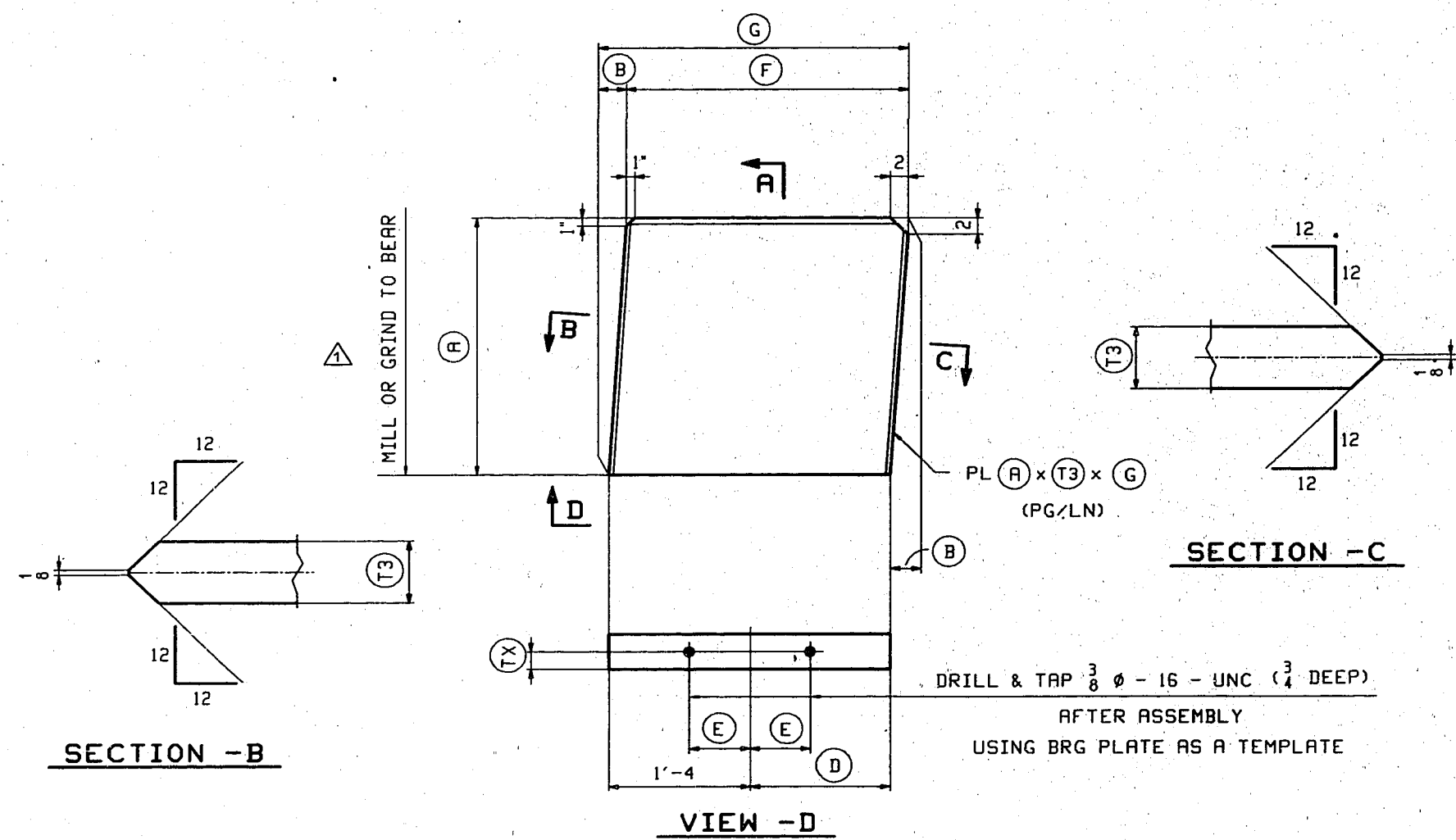
BEARING STIFFENERS  
(TYPE II CABLE FRAME)

MARK	NO. REQD	(R)	PG/LN
(CABLE 9,10,12,13,15,16)	x9aa	24	7/9,7/24 8/23
(CABLE 11,14)	x9ab	8	10 <sup>1</sup> / <sub>4</sub>

NOTES:  
1. FOR GENERAL NOTES SEE DRAWING GNI  
2. ALL MATERIAL TO BE M270 GR50 (FCM).  
(FCM - DENOTES FRACTURE CRITICAL MATERIAL)

CABLE FRAME STANDARDS			
VINCENNES STEEL CORP.			
VINCENNES, IND.			
Drawn	Checked	Approved	Revised
RB 9/8/98	TRM 10/6/98		RB/TRM 11/30/98
U.S. 231 OVER THE OHIO RIVER AND INDIANA 66 KENTUCKY D.O.H. / INDIANA D.O.T. DAVIESS COUNTY, KY / SPENCER COUNTY, IND PROJ. DOKBB D01D1 D01			
Shop Point SEE GNI			
Edge Distance AS NOTED		Holes AS NOTED	
Contr. No. 671		Sh. X9 of	

TENSOR 1821-



TRANSVERSE PLATES  
(TYPE II CABLE FRAME)

MARK	NO.REOD	T3	TX	A	B	C	D	E	F	G	PG/LN
(e) CABLE 9)	x10a	2	1/4	5/8	1'-5 11/16	1/2	0"	1'-4	6 7/8	2'-8 1/2	7/11
(e) CABLE 10)	x10b	2	1/4	5/8	1'-4 7/8	9/16	1/8	1'-4	6 7/8	2'-8 9/16	7/25
(e) CABLE 11)	x10c	2	1"	1/2	1'-6 13/16	11/16	3/16	1'-4 1/16	5 7/8	2'-8 3/4	8/11
(e) CABLE 12)	x10d	2	1"	1/2	1'-10 7/8	1"	3/8	1'-4 1/8	6 3/4	2'-8 1/8	8/24
(e) CABLE 16)	x10f	2	1/4	5/8	1'-5 13/16	9/16	0"	1'-4	6 7/8	2'-8 9/16	7/11
(e) CABLE 15)	x10g	2	1/4	5/8	1'-4 15/16	5/8	1/16	1'-4	6 7/8	2'-8 5/8	7/25
(e) CABLE 14)	x10h	2	1"	1/2	1'-6 15/16	3/4	3/16	1'-4	5 7/8	2'-8 3/4	8/11
(e) CABLE 13)	x10k	2	1"	1/2	1'-10 13/16	1 1/16	3/8	1'-4 1/8	6 3/4	2'-8 3/8	8/24

TRANSVERSE PLATES  
(TYPE II CABLE FRAME)

MARK	NO.REOD	T3	TX	C	H	K	L	M	N	P	PG/LN
(e) CABLE 9)	x10m	2	1/4	5/8	0"	1'-5 11/16	1/2	1'-4	6 7/8	2'-8 1/2	7/11
(e) CABLE 10)	x10n	2	1/4	5/8	1/8	1'-4 7/8	9/16	1'-4	6 7/8	2'-8 9/16	7/25
(e) CABLE 11)	x10p	2	1"	1/2	3/16	1'-6 13/16	11/16	1'-4 1/16	5 7/8	2'-8 3/4	8/11
(e) CABLE 12)	x10s	2	1"	1/2	3/8	1'-10 7/8	1"	1'-4 1/8	6 3/4	2'-8 1/8	8/24
(e) CABLE 16)	x10t	2	1/4	5/8	0"	1'-5 13/16	9/16	1'-4	6 7/8	2'-8 9/16	7/11
(e) CABLE 15)	x10v	2	1/4	5/8	1/16	1'-4 15/16	5/8	1'-4	6 7/8	2'-8 5/8	7/25
(e) CABLE 14)	x10w	2	1"	1/2	3/16	1'-6 15/16	3/4	1'-4	5 7/8	2'-8 3/4	8/11
(e) CABLE 13)	x10x	2	1"	1/2	3/8	1'-10 13/16	1 1/16	1'-4 1/8	6 3/4	2'-8 3/8	8/24

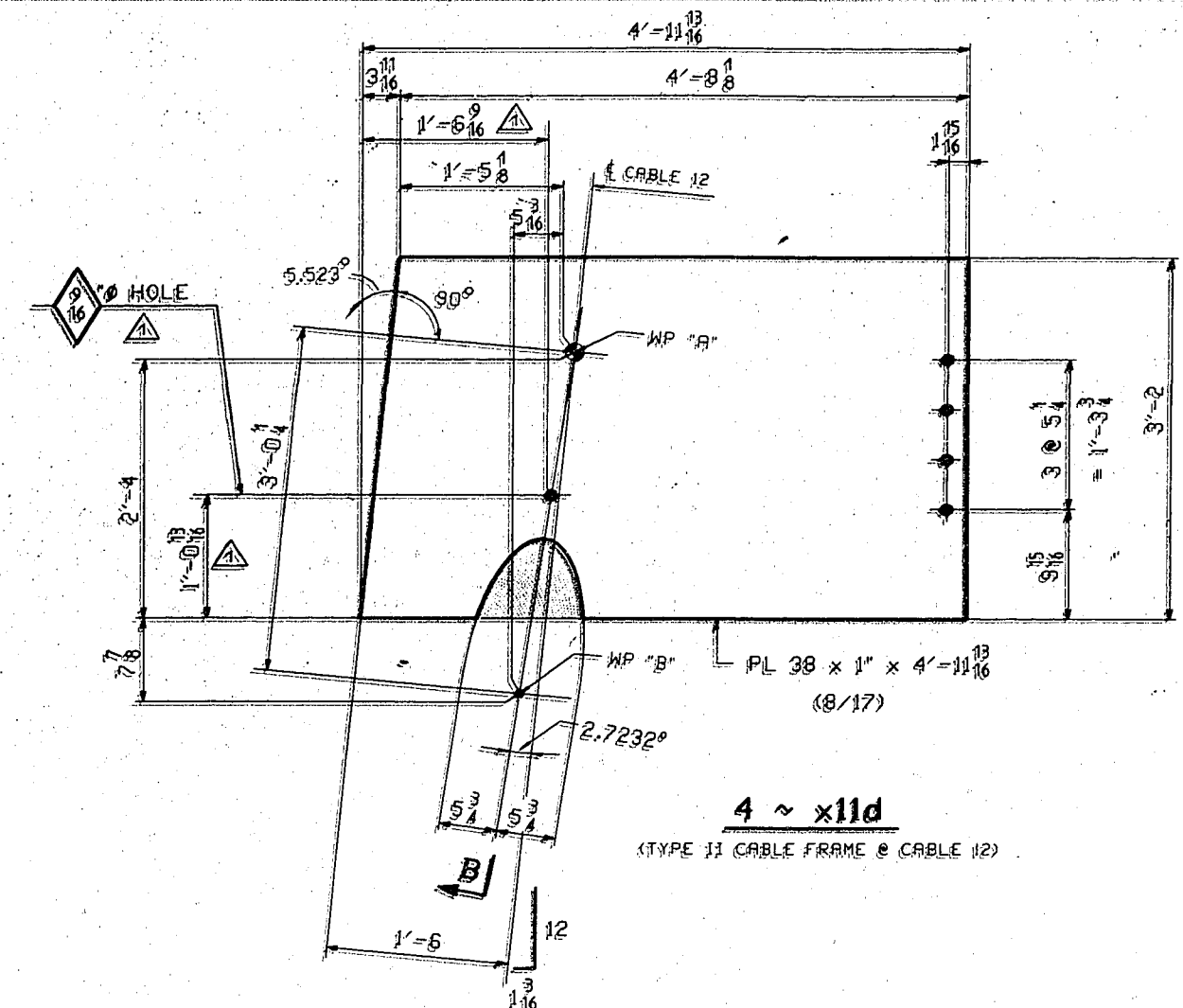
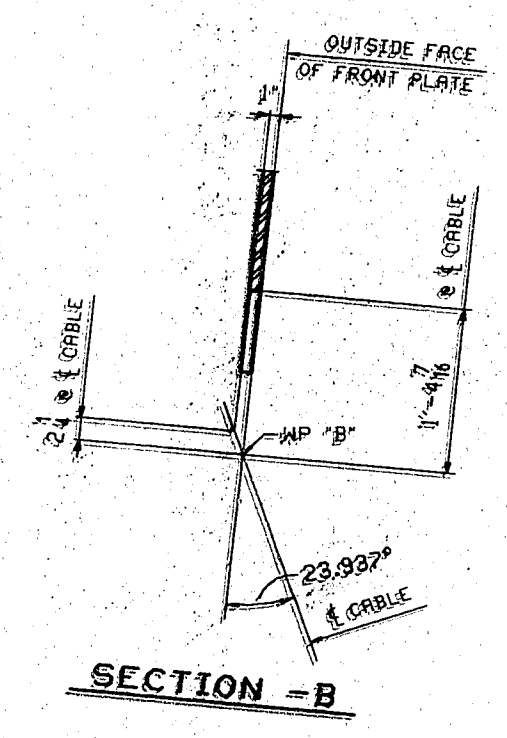
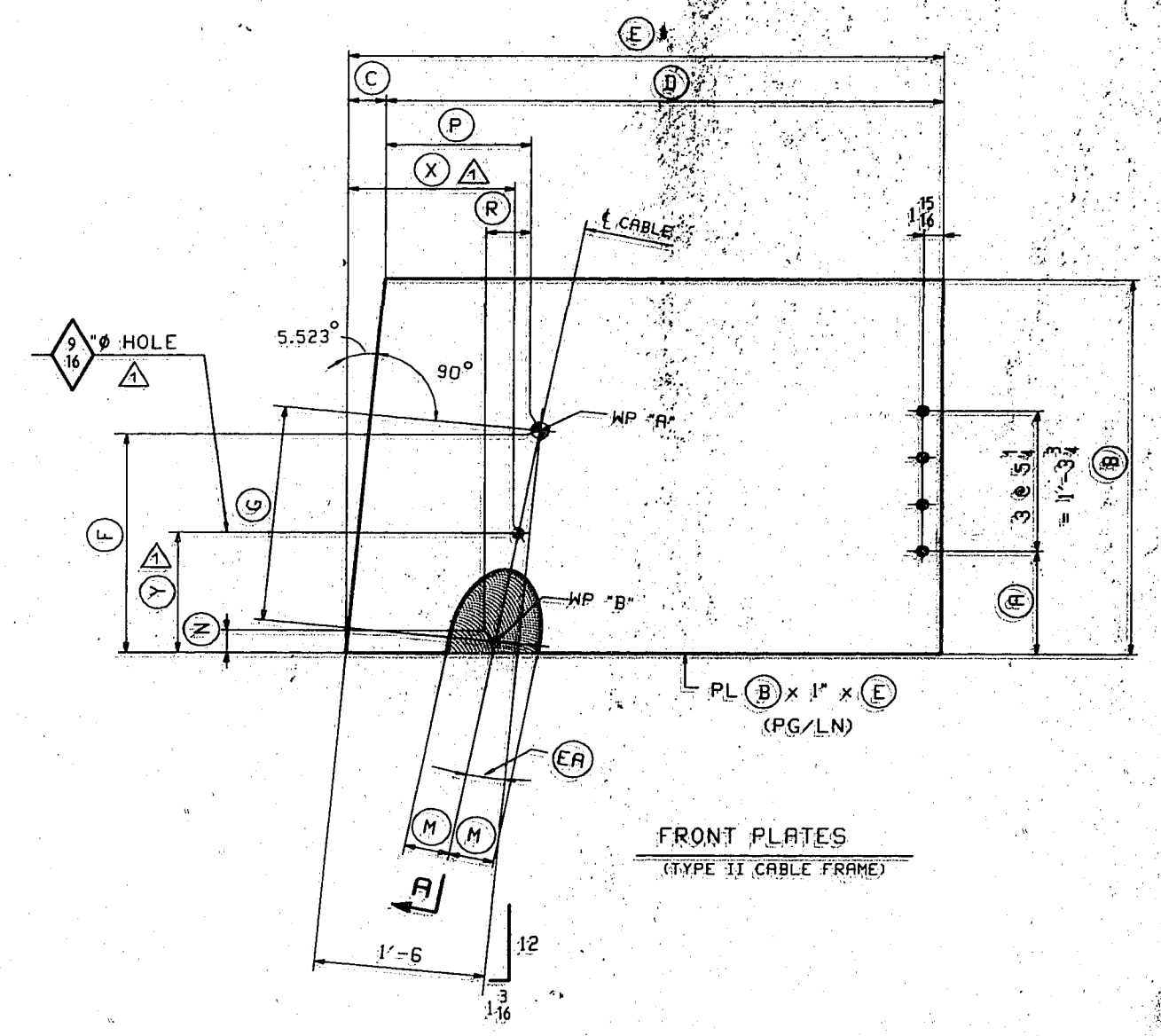
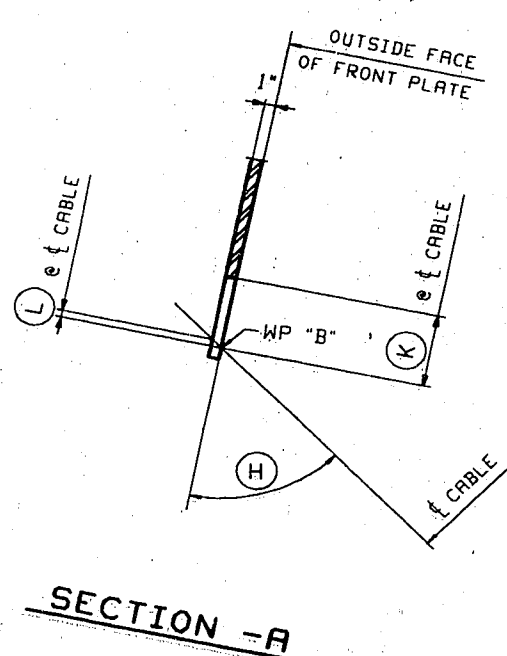
NOTES:

1. FOR GENERAL NOTES SEE DRAWING GNI
2. ALL MATERIAL TO BE M270 GR50 (FCM).  
(FCM - DENOTES FRACTURE CRITICAL MATERIAL)

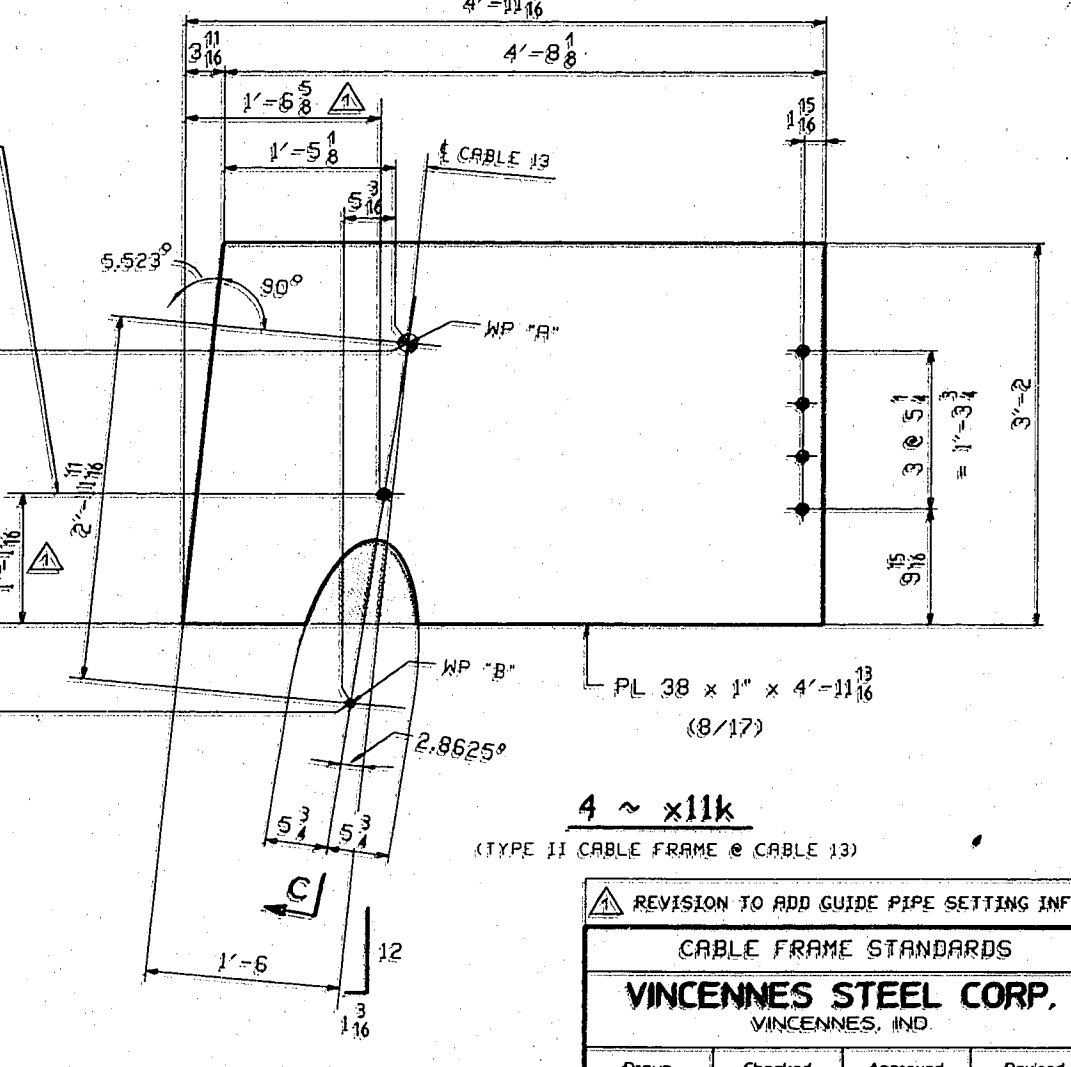
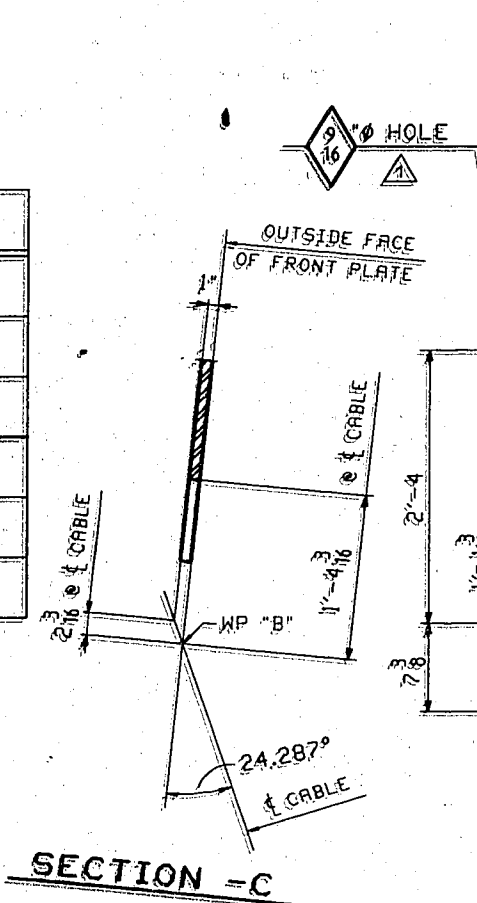
CABLE FRAME STANDARDS			
VINCENNES STEEL CORP.			
VINCENNES, IND.			
Drawn	Checked	Approved	Revised
RB	TRM		RB/TRM
9/8/98	10/7/98		11/10/98
U.S. 231 OVER THE OHIO RIVER AND INDIANA 66			
KENTUCKY D.O.H. / INDIANA D.O.T.			
DAVIESS COUNTY, KY / SPENCER COUNTY, IND			
PROJ. 00KBB 0001 001			
Shop Print SEE GNI			
Edge Distance AS NOTED		Notes: AS NOTED	
Contr. No. 671		Sh. X10 of	

SENSOR 1821-





MARK	NO. REQD	A	B	C	D	E	F	G	H	K	L	M	N	P	R	PG/LN	X	Y	
(e CABLE 9)	x11a	4	11 <sup>9</sup> / <sub>16</sub>	4'-2	4 <sup>13</sup> / <sub>16</sub>	4'-9	5'-11 <sup>13</sup> / <sub>16</sub>	2'-1	1'-9 <sup>3</sup> / <sub>16</sub>	45.109°	8 <sup>15</sup> / <sub>16</sub>	5 <sup>1</sup> / <sub>16</sub>	4	1'-3 <sup>11</sup> / <sub>16</sub>	2 <sup>13</sup> / <sub>16</sub>	2.1482°	7/3	1'-7 <sup>1</sup> / <sub>2</sub>	1'-5 <sup>3</sup> / <sub>4</sub>
(e CABLE 10)	x11b	4	11 <sup>7</sup> / <sub>16</sub>	3'-8	4 <sup>1</sup> / <sub>4</sub>	4'-8 <sup>5</sup> / <sub>8</sub>	5'-0 <sup>7</sup> / <sub>8</sub>	2'-1	1'-10 <sup>1</sup> / <sub>16</sub>	40.765°	10"	1 <sup>13</sup> / <sub>16</sub>	3 <sup>1</sup> / <sub>8</sub>	1'-4 <sup>1</sup> / <sub>4</sub>	3	2.3254°	7/17	1'-7 <sup>1</sup> / <sub>2</sub>	1'-5 <sup>13</sup> / <sub>16</sub>
(e CABLE 11)	x11c	4	10 <sup>15</sup> / <sub>16</sub>	3'-4	3 <sup>7</sup> / <sub>8</sub>	4'-8 <sup>1</sup> / <sub>8</sub>	5'-0	2'-2	2'-0 <sup>4</sup> / <sub>8</sub>	39.558°	10 <sup>5</sup> / <sub>16</sub>	1 <sup>1</sup> / <sub>2</sub>	4 <sup>7</sup> / <sub>8</sub>	1'-4 <sup>1</sup> / <sub>4</sub>	3 <sup>3</sup> / <sub>8</sub>	2.5192°	8/3	1'-7 <sup>5</sup> / <sub>16</sub>	1'-4 <sup>11</sup> / <sub>16</sub>
(e CABLE 16)	x11f	4	11 <sup>9</sup> / <sub>16</sub>	4'-2	4 <sup>13</sup> / <sub>16</sub>	4'-9	5'-11 <sup>13</sup> / <sub>16</sub>	2'-1	1'-9 <sup>3</sup> / <sub>16</sub>	47.222°	8 <sup>3</sup> / <sub>4</sub>	5 <sup>15</sup> / <sub>16</sub>	3 <sup>1</sup> / <sub>4</sub>	1'-3 <sup>11</sup> / <sub>16</sub>	2 <sup>13</sup> / <sub>16</sub>	2.4508°	7/3	1'-7 <sup>9</sup> / <sub>16</sub>	1'-5 <sup>3</sup> / <sub>8</sub>
(e CABLE 15)	x11g	4	11 <sup>7</sup> / <sub>16</sub>	3'-8	4 <sup>1</sup> / <sub>4</sub>	4'-8 <sup>5</sup> / <sub>8</sub>	5'-0 <sup>7</sup> / <sub>8</sub>	2'-1	1'-9 <sup>3</sup> / <sub>16</sub>	41.681°	9 <sup>3</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>8</sub>	3 <sup>1</sup> / <sub>4</sub>	1'-4 <sup>1</sup> / <sub>4</sub>	3	2.5908°	7/17	1'-7 <sup>9</sup> / <sub>16</sub>	1'-5 <sup>5</sup> / <sub>16</sub>
(e CABLE 14)	x11h	4	10 <sup>15</sup> / <sub>16</sub>	3'-4	3 <sup>7</sup> / <sub>8</sub>	4'-8 <sup>1</sup> / <sub>8</sub>	5'-0	2'-2	1'-11 <sup>9</sup> / <sub>16</sub>	34.214°	10 <sup>3</sup> / <sub>16</sub>	1 <sup>1</sup> / <sub>2</sub>	4 <sup>7</sup> / <sub>8</sub>	1'-4 <sup>1</sup> / <sub>4</sub>	3 <sup>3</sup> / <sub>8</sub>	2.7271°	8/3	1'-7 <sup>5</sup> / <sub>16</sub>	1'-5 <sup>1</sup> / <sub>8</sub>



- NOTES:
- FOR GENERAL NOTES SEE DRAWING GHI
  - ALL MATERIAL TO BE M270 GR50 (FCM). (FCM - DENOTES FRACTURE CRITICAL MATERIAL)
  - ALL HOLES TO BE (DR) (UN).

REVISION TO ADD GUIDE PIPE SETTING INFO.

CABLE FRAME STANDARDS

VINCENNES STEEL CORP.  
VINCENNES, IND

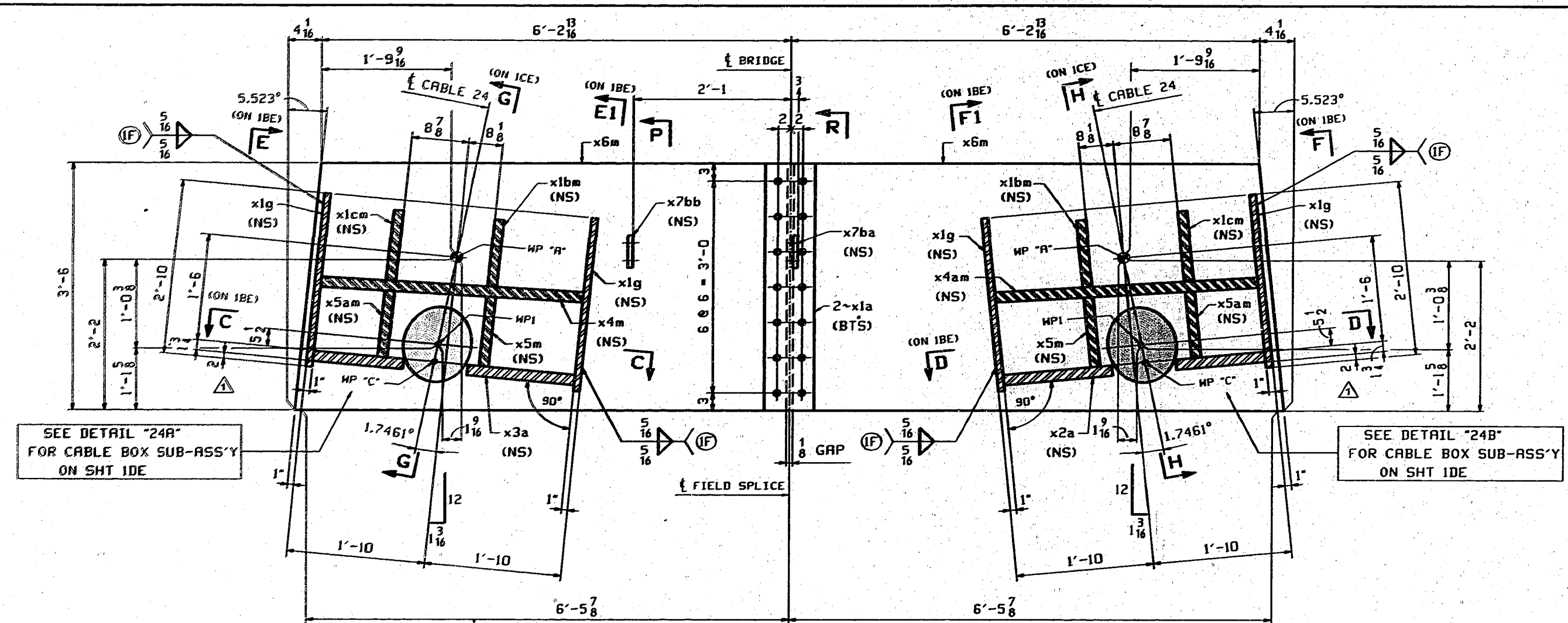
Drawn	Checked	Approved	Revised
RB	TRM	AL/HMJ	
3/8/98	10/7/98	9/27/99	

U.S. 231 OVER THE OHIO RIVER AND INDIANA 66  
KENTUCKY D.O.M. / INDIANA D.O.T.  
DAVIESS COUNTY, KY / SPENCER COUNTY, IND  
PROJ. 00K8D 0001 001

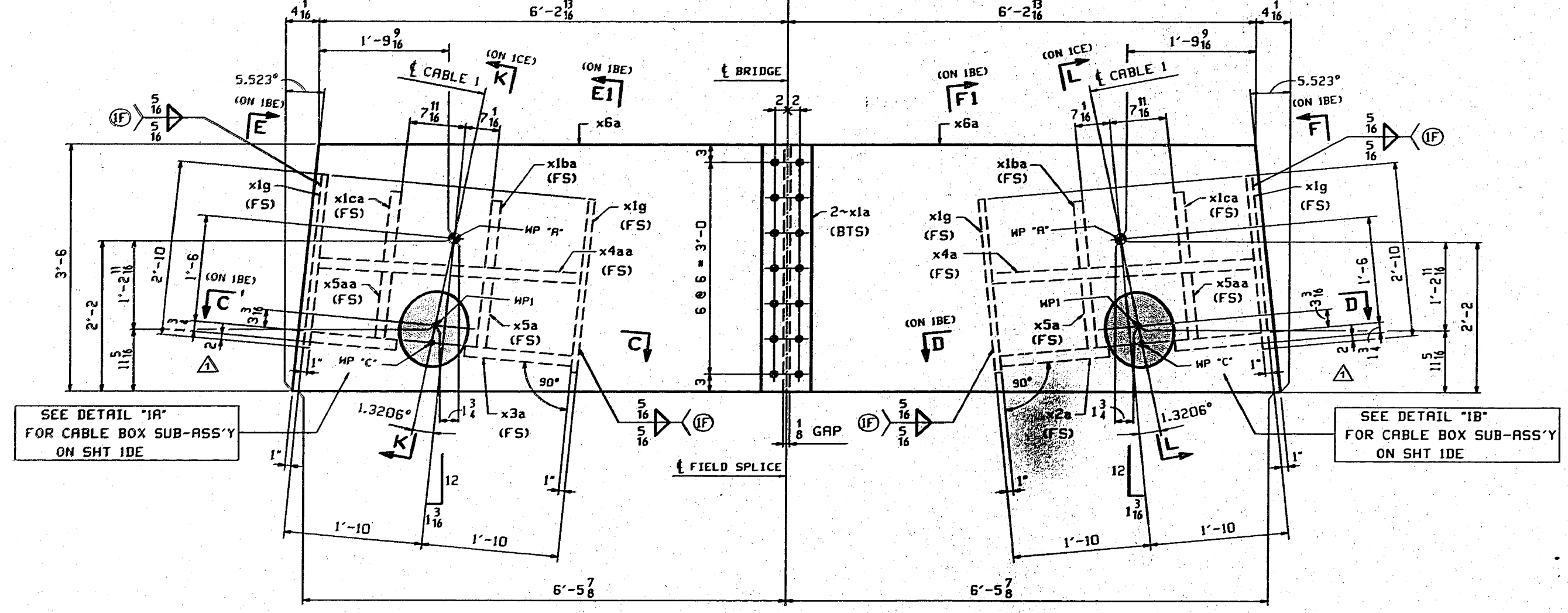
Shop Part SEE GHI

Edge Distance AS NOTED Hole: 15" (UN)

Contr. No. 671 Sh. X11 of



**SECTION A-A**  
(ELEVATION OF FRONT PLATE "A")  
(STUDS NOT SHOWN - SEE DETAIL "S1" ON IE)



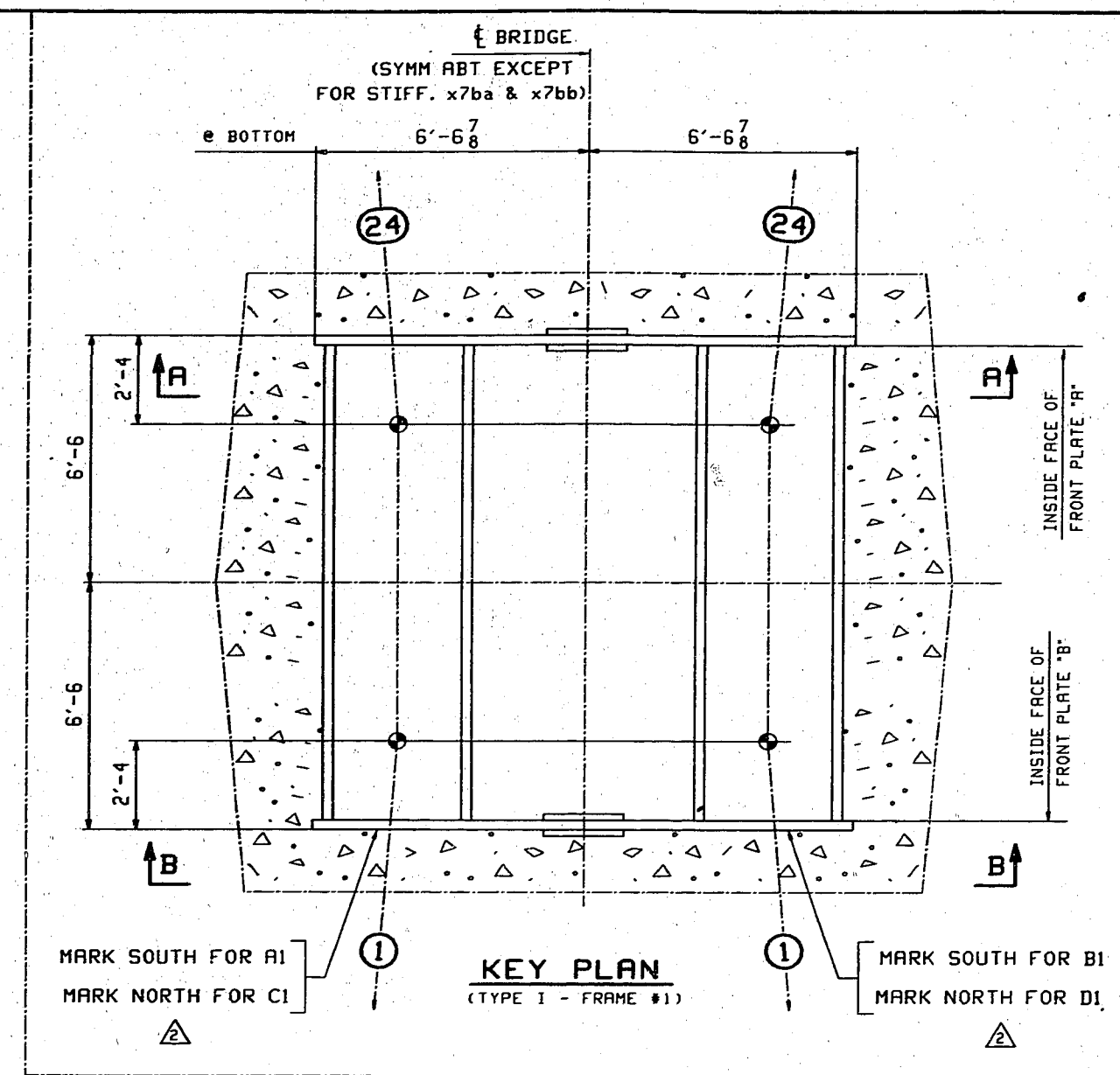
**VIEW B-B**  
(ELEVATION OF FRONT PLATE "B")  
(STUDS NOT SHOWN - SEE DETAIL "S2" ON IE)

ONE ~ CABLE FRAME ~ A1 (FRAME #1 @ PIER B)  
ONE ~ CABLE FRAME ~ C1 (FRAME #1 @ PIER C)

ALIKE EXCEPT FOR MARK & DR

ONE ~ CABLE FRAME ~ B1 (FRAME #1 @ PIER B)  
ONE ~ CABLE FRAME ~ D1 (FRAME #1 @ PIER C)

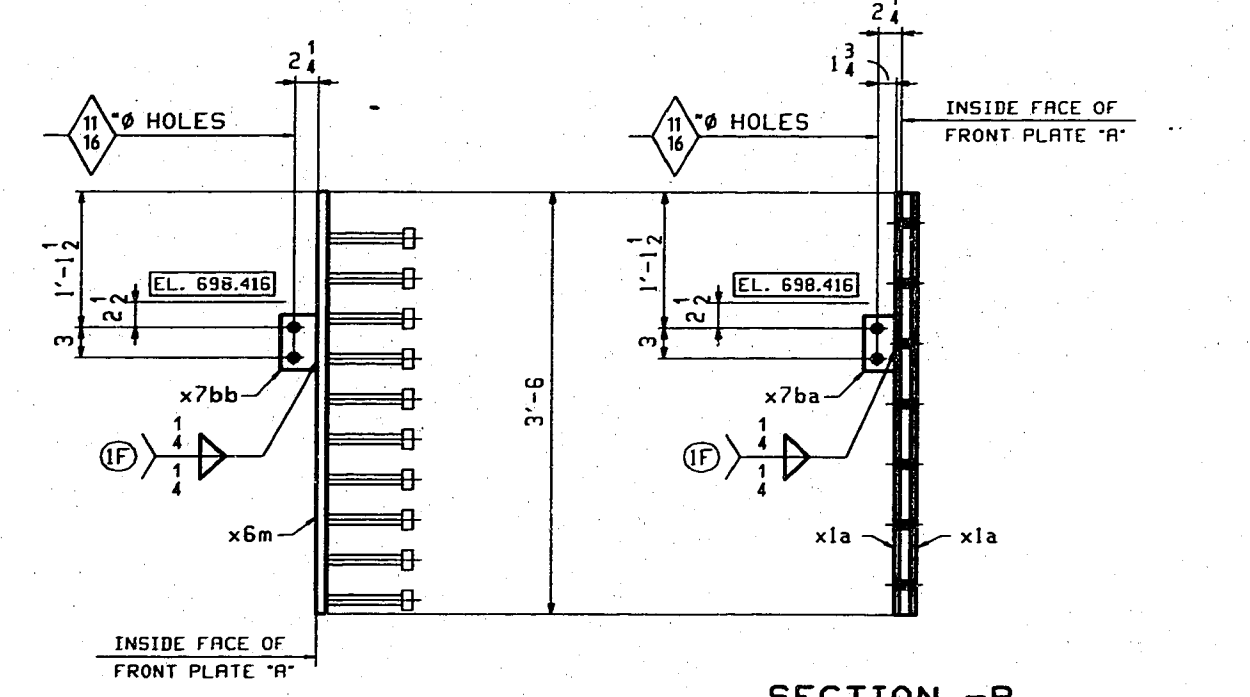
ALIKE EXCEPT FOR MARK & DR



**KEY PLAN**  
(TYPE I - FRAME #1)

MARK SOUTH FOR A1  
MARK NORTH FOR C1

MARK SOUTH FOR B1  
MARK NORTH FOR D1



**SECTION -R**

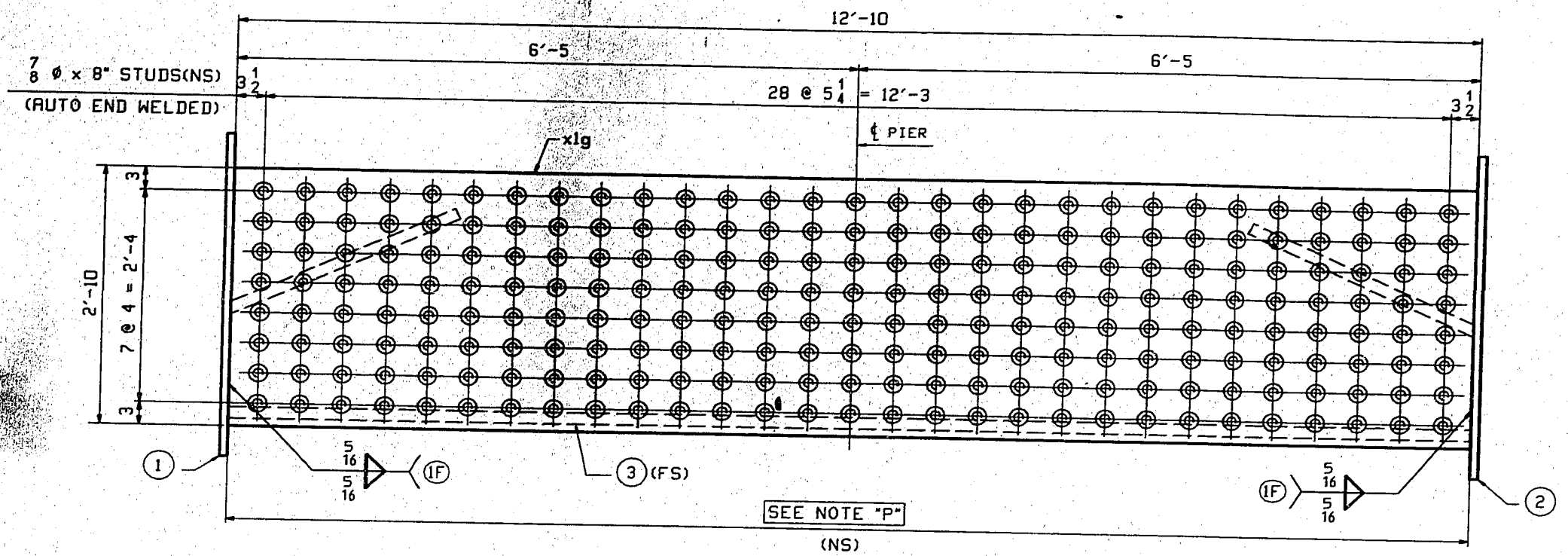
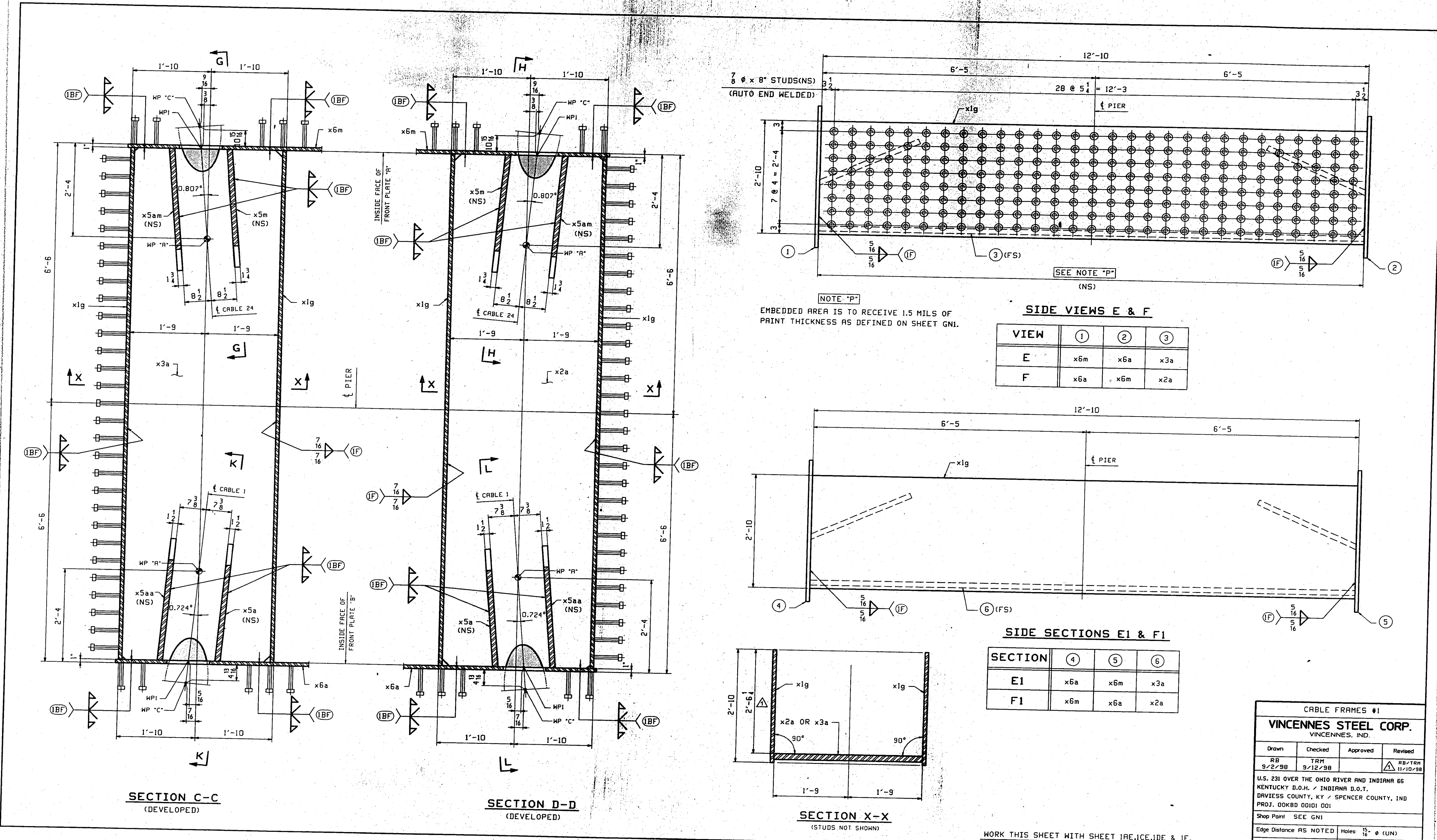
- NOTES:**
1. FOR CABLE FRAME STANDARD DETAILS SEE SHT. X1 - X7.
  2. FOR GENERAL NOTES SEE SHEET GNI.
  3. ALL MATERIAL TO BE M270 GR50 (FCM) (UN). (FCM - DENOTES FRACTURE CRITICAL MATERIAL)
  4. ALL HOLES TO BE DR (UN).
  5. BTS = BOLT TO SHIP.

CABLE FRAMES #1			
VINCENNES STEEL CORP.			
VINCENNES, IND.			
Drawn	Checked	Approved	Revised
RB	TAM		
9/2/98	9/12/98		RB/TAM 12/22/98
U.S. 231 OVER THE OHIO RIVER AND INDIANA 66			
KENTUCKY D.O.H. / INDIANA D.O.T.			
DAVIESS COUNTY, KY / SPENCER COUNTY, IND			
PROJ. 00KBB 00101 001			
Shop Point SEE GNI			
Edge Distance AS NOTED		Holes: 12" @ (UN)	
Contr. No. 671		Sh. IRE of	

WORK THIS SHEET WITH SHEET 1BE, ICE, IDE & IE.

TENSOR 1821-

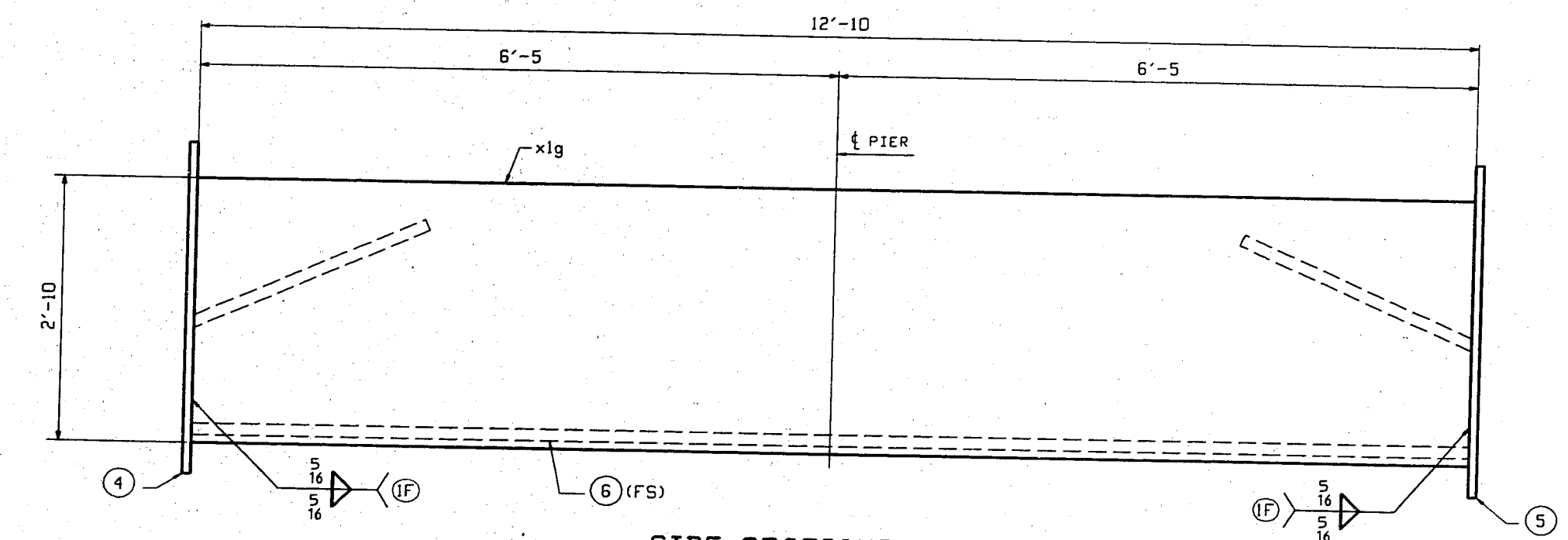




NOTE "P"  
EMBEDDED AREA IS TO RECEIVE 1.5 MILS OF PAINT THICKNESS AS DEFINED ON SHEET GNI.

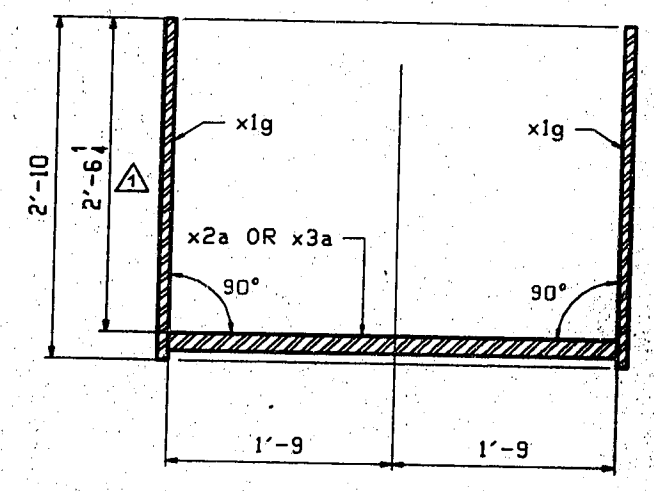
**SIDE VIEWS E & F**

VIEW	①	②	③
E	x6m	x6a	x3a
F	x6a	x6m	x2a



**SIDE SECTIONS E1 & F1**

SECTION	④	⑤	⑥
E1	x6a	x6m	x3a
F1	x6m	x6a	x2a



CABLE FRAMES #1  
**VINCENNES STEEL CORP.**  
VINCENNES, IND.

Drawn	Checked	Approved	Revised
RB	TRM		BB/TRM
9/2/98	9/12/98		11/10/98

U.S. 231 OVER THE OHIO RIVER AND INDIANA 66  
KENTUCKY D.O.T. / INDIANA D.O.T.  
DAVIESS COUNTY, KY / SPENCER COUNTY, IND  
PROJ. 00K80 00010 001

Shop Point SEE GNI

Edge Distance AS NOTED Holes 5/16" φ (LUN)

Contr. No. 671 Sh IBC of

2/

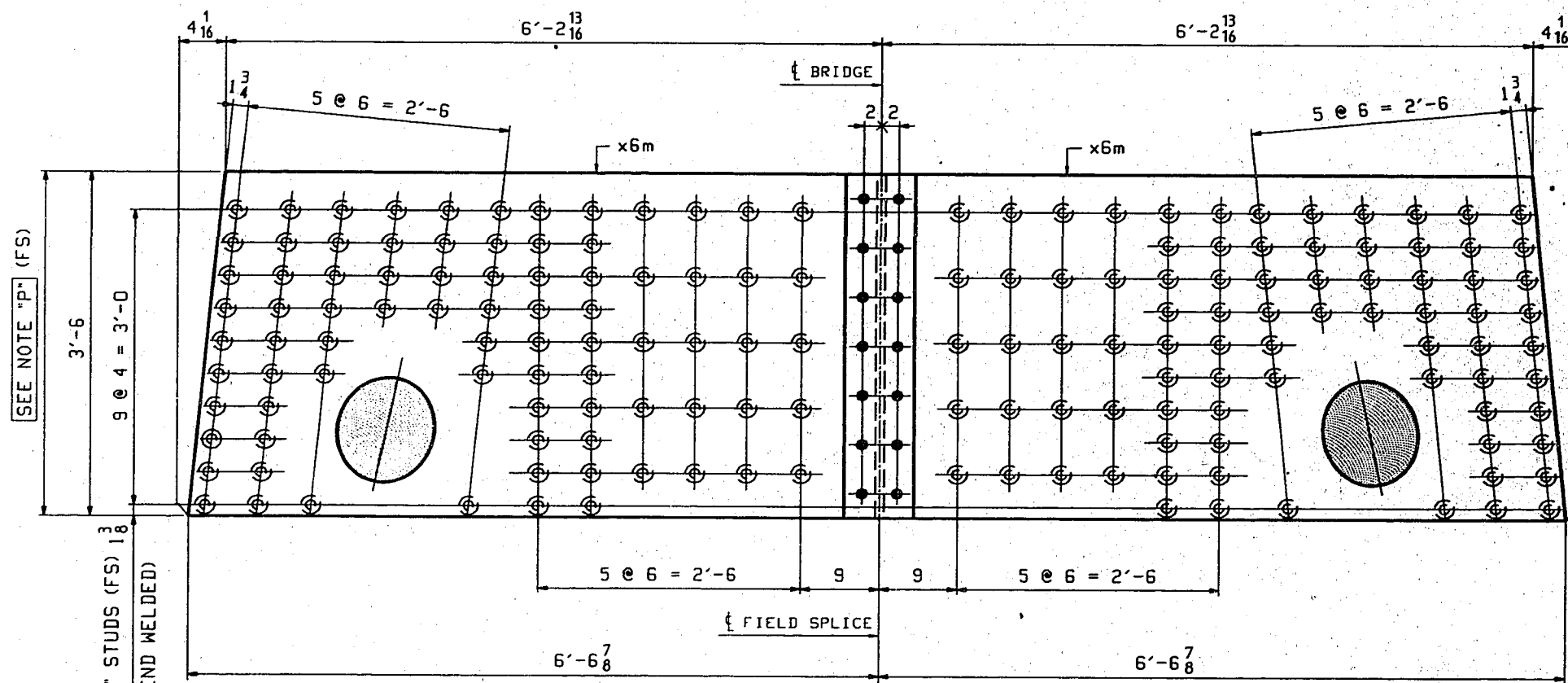
WORK THIS SHEET WITH SHEET 1A, 1C, 1D & 1E.

TENSOR 1821-1



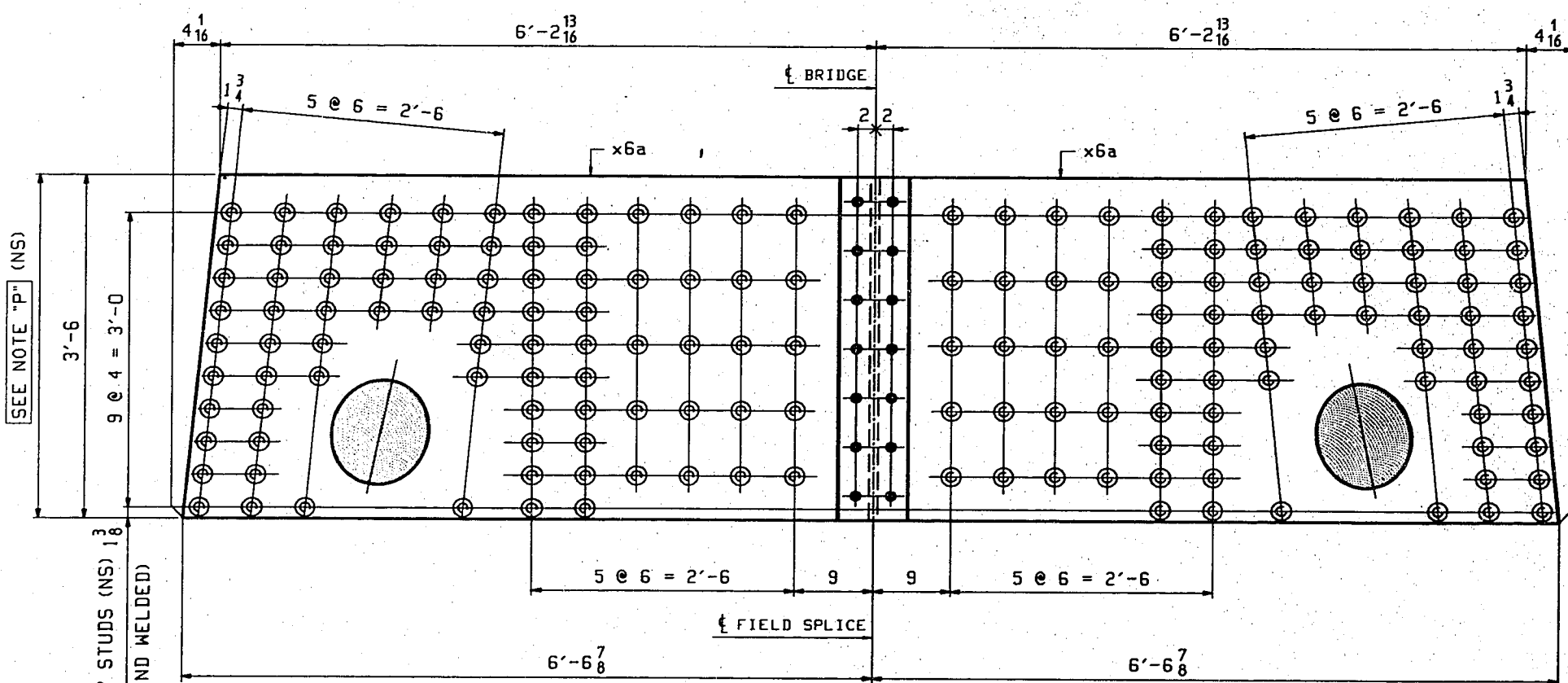






**DETAIL "S1"**  
(INSIDE PLATES NOT SHOWN)

**NOTE "P"**  
EMBEDDED AREA IS TO RECEIVE 1.5 MILS OF  
PRINT THICKNESS AS DEFINED ON SHEET GNI.



**DETAIL "S2"**  
(INSIDE PLATES NOT SHOWN)

BILL OF MATERIAL							
LN	KIND	SECTION	LENGTH	REQ.	MARK	GRADE	REMARKS
1	CABLE FRAME			1	RI		ALINE EXCEPT FOR NO. 1 IN 1317B
2	CABLE FRAME			1	CI		1317B
3	PL	42 x 1/2	8	8	x1a	A270-50 F2	1/16
4	PL	34 x 1	12'-10"	4	x1g	A270-50 F2	1/4
5	PL	13 1/2 x 1 1/2	1'-10 1/2"	2	x1ba	A270-50 F2	1/11
6	PL	11 1/2 x 1 1/2	1'-10 1/2"	2	x1bn	A270-50 F2	1/11
7	PL	13 1/2 x 1 1/2	1'-10 1/2"	2	x1ca	A270-50 F2	1/11
8	PL	11 1/2 x 1 1/2	1'-10 1/2"	2	x1cn	A270-50 F2	1/11
9	PL	42 x 1 1/2	12'-10"	2	x3a	A270-50 F2	1/16
10	PL	25 1/2 x 1 1/2	3'-6 1/2"	2	x4a	A270-50 F2	1/14
11	PL	26 1/2 x 1 1/2	3'-6 1/2"	2	x4aa	A270-50 F2	1/14
12	PL	9 x 1 1/2	1'-2 1/2"	2	x4ba	A270-50 F2	1/8
13	PL	10 x 1 1/2	1'-4 1/2"	2	x4bg	A270-50 F2	1/13
14	PL	24 1/2 x 1 1/2	3'-4 1/2"	2	x5a	A270-50 F2	1/10
15	PL	25 1/2 x 1 1/2	3'-3"	2	x5a	A270-50 F2	1/15
16	PL	24 1/2 x 1 1/2	3'-4 1/2"	2	x5aa	A270-50 F2	1/10
17	PL	25 1/2 x 1 1/2	3'-3"	2	x5aa	A270-50 F2	1/15
18	PL	42 x 1	6'-6 1/2"	2	x6a	A270-50 F2	1/3
19	PL	42 x 1	6'-6 1/2"	2	x6m	A270-50 F2	1/3
20	PL	18 1/2 x 3	1'-10"	2	x7a	A270-50 F2	1/2
21	PL	21 x 3 1/2	2'-0 1/2"	2	x7b	A270-50 F2	1/12
22	PL	3 1/2 x 1/2	6	2	x7ba	A270-50	1/19
23	PL	3 1/2 x 1/2	6	2	x7bb	A270-50	1/19
24	CRP	3 #	1 1/2	8	A574		NO NUTS SOCKET HEAD 8/12
25	CRP	3 #	1 1/2	8	A574		NO NUTS SOCKET HEAD 8/13
26	CRP	3 #	1 1/2	8	A574		NO NUTS SOCKET HEAD 8/13
27	WASH	3 #	16	16	F844		NO NUTS 8/15
28	STUD	3 #	8	792	A108		8/3
29							
30							
31	CABLE FRAME			1	BI		ALINE EXCEPT FOR NO. 1 IN 12981
32	CABLE FRAME			1	DI		12981
33	PL	34 x 1	12'-10"	4	x1g	A270-50 F2	1/4
34	PL	13 1/2 x 1 1/2	1'-10 1/2"	2	x1ba	A270-50 F2	1/11
35	PL	11 1/2 x 1 1/2	1'-10 1/2"	2	x1bn	A270-50 F2	1/11
36	PL	13 1/2 x 1 1/2	1'-10 1/2"	2	x1ca	A270-50 F2	1/11
37	PL	11 1/2 x 1 1/2	1'-10 1/2"	2	x1cn	A270-50 F2	1/11
38	PL	42 x 1 1/2	12'-10"	2	x2a	A270-50 F2	1/16
39	PL	26 1/2 x 1 1/2	3'-6 1/2"	2	x4a	A270-50 F2	1/14
40	PL	25 1/2 x 1 1/2	3'-6 1/2"	2	x4aa	A270-50 F2	1/14
41	PL	9 x 1 1/2	1'-2 1/2"	2	x4ba	A270-50 F2	1/8
42	PL	10 x 1 1/2	1'-4 1/2"	2	x4bg	A270-50 F2	1/13
43	PL	24 1/2 x 1 1/2	3'-4 1/2"	2	x5a	A270-50 F2	1/10
44	PL	25 1/2 x 1 1/2	3'-3"	2	x5a	A270-50 F2	1/15
45	PL	24 1/2 x 1 1/2	3'-4 1/2"	2	x5aa	A270-50 F2	1/10
46	PL	25 1/2 x 1 1/2	3'-3"	2	x5aa	A270-50 F2	1/15
47	PL	42 x 1	6'-6 1/2"	2	x6a	A270-50 F2	1/3
48	PL	42 x 1	6'-6 1/2"	2	x6m	A270-50 F2	1/3
49	PL	18 1/2 x 3	1'-10"	2	x7a	A270-50 F2	1/2
50	PL	21 x 3 1/2	2'-0 1/2"	2	x7b	A270-50 F2	1/12
51	CRP	3 #	1 1/2	8	A574		NO NUTS SOCKET HEAD 8/12
52	CRP	3 #	1 1/2	8	A574		NO NUTS SOCKET HEAD 8/13
53	CRP	3 #	1 1/2	8	A574		NO NUTS SOCKET HEAD 8/13
54	WASH	3 #	16	16	F844		NO NUTS 8/15
55	STUD	3 #	8	792	A108		8/3

CABLE FRAMES #1  
**VINCENNES STEEL CORP.**  
VINCENNES, IND.

Drawn	Checked	Approved	Revised
RB	TRM		RB/TRM
9/12/98	9/30/98		11/19/98

U.S. 231 OVER THE OHIO RIVER AND INDIANA 66  
KENTUCKY D.O.M. / INDIANA D.O.T.  
DAVLESS COUNTY, KY / SPENCER COUNTY, IND  
PROJ. 00KBB 0001 001

Shop Point SEE GNI

Edge Distance AS NOTED    Holes: 1/8" Ø (LUN)

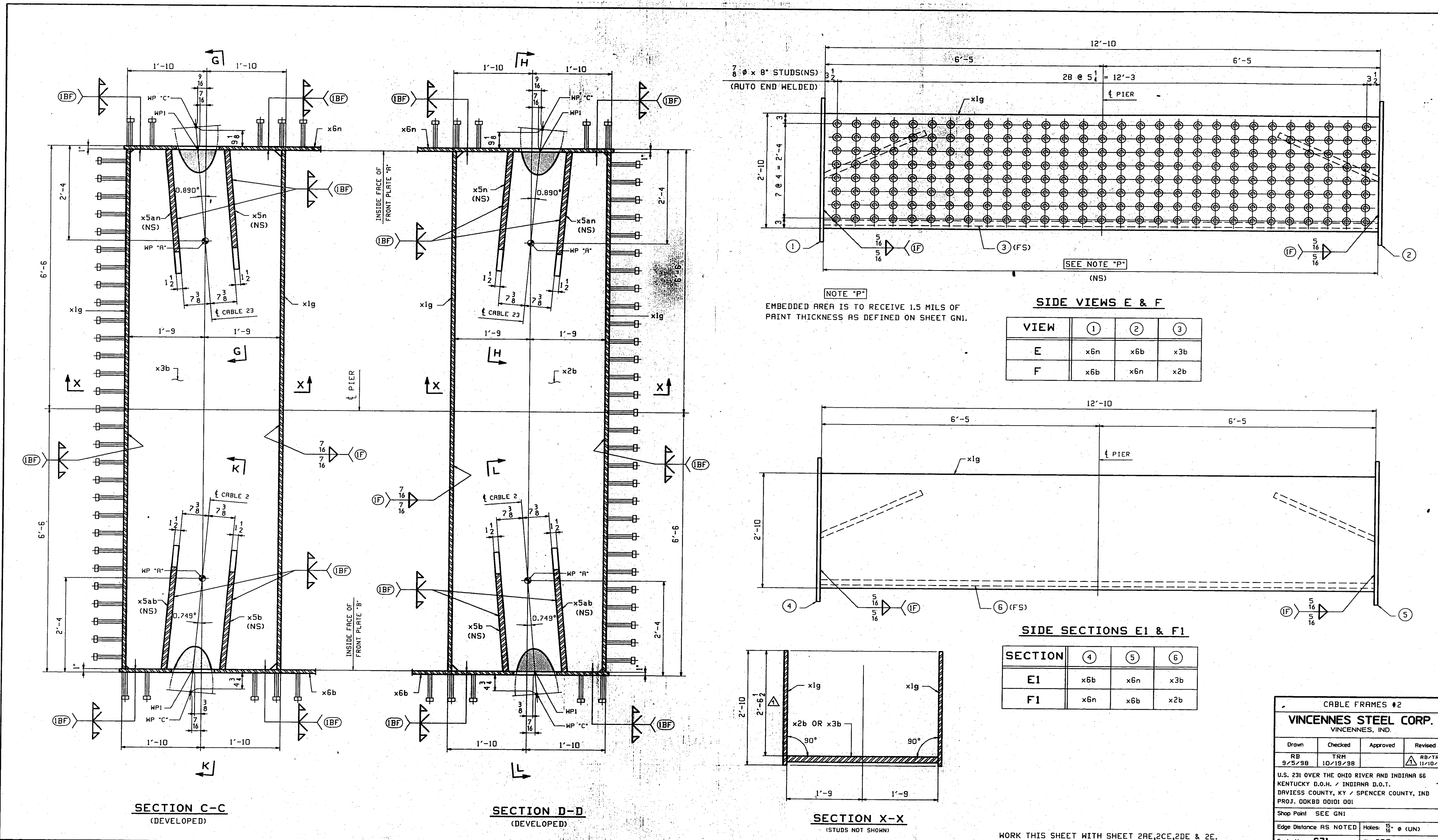
Contr. No. **671**    Sh. 1C of

WORK THIS SHEET WITH SHEET IAE,IBE,ICE & IDE.

TENSOR 1821-







VIEW	①	②	③
E	x6n	x6b	x3b
F	x6b	x6n	x2b

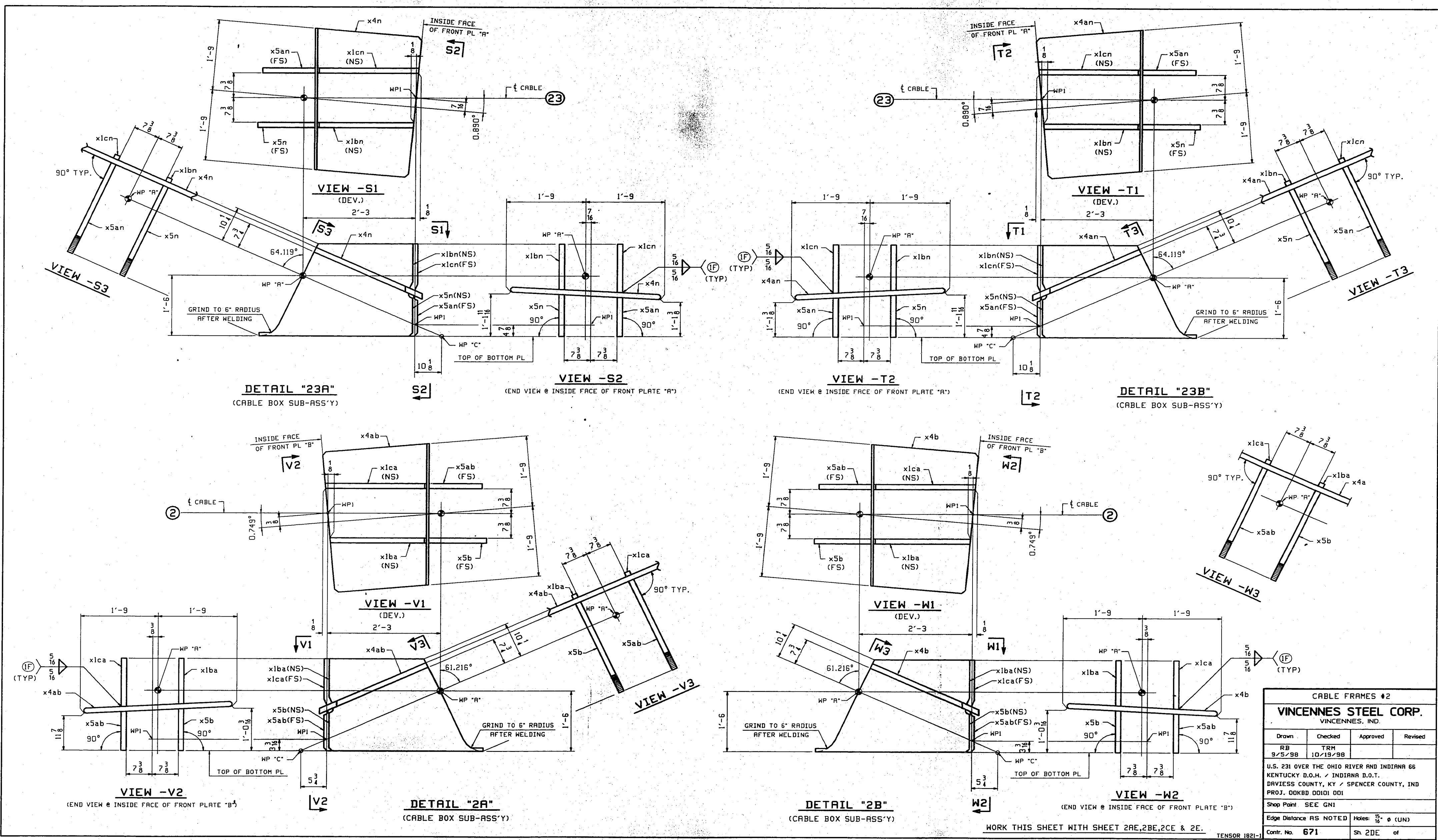
SECTION	④	⑤	⑥
E1	x6b	x6n	x3b
F1	x6n	x6b	x2b

CABLE FRAMES #2			
VINCENNES STEEL CORP. VINCENNES, IND.			
Drawn	Checked	Approved	Revised
RB	TRM		RB/TRM
3/5/98	10/19/98		11/10/98
U.S. 231 OVER THE OHIO RIVER AND INDIANA 66			
KENTUCKY D.O.H. / INDIANA D.O.T.			
DAVIESS COUNTY, KY / SPENCER COUNTY, IND			
PROJ. 00K80 00101 001			
Shop Plans SEE GNI			
Edge Distance AS NOTED			
Holes: 1/2" Ø (L/N)			
Contr. No. 671		Sh. 2BE of	

WORK THIS SHEET WITH SHEET 2AE, 2CE, 2DE & 2E. TENSOR 1821-1







CABLE FRAMES #2  
**VINCENNES STEEL CORP.**  
 VINCENNES, IND.

Drawn	Checked	Approved	Revised
RB	TRM		
9/25/98	10/19/98		

U.S. 231 OVER THE OHIO RIVER AND INDIANA 66  
 KENTUCKY D.O.H. / INDIANA D.O.T.  
 DRAVIESS COUNTY, KY / SPENCER COUNTY, IND  
 PROJ. DOKBD DDDIG DDI

Shop Point SEE GNI

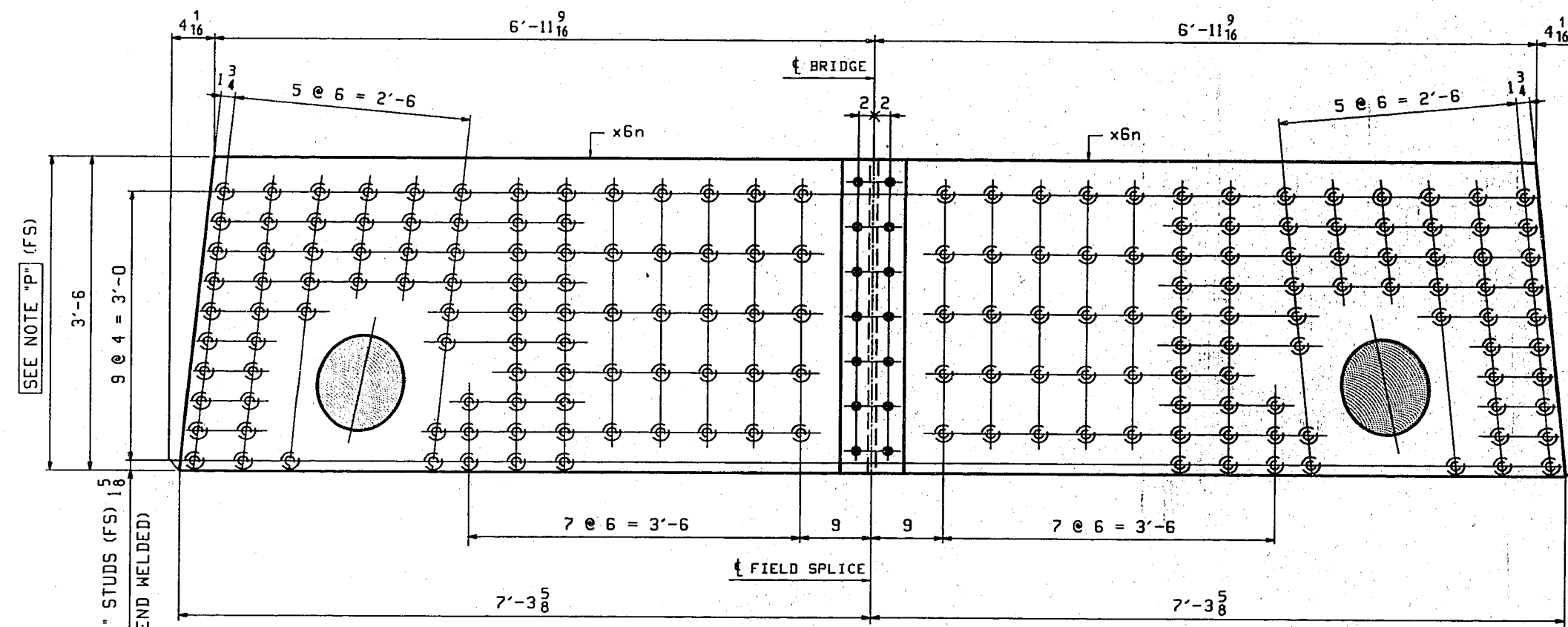
Edge Distance AS NOTED Holes:  $\frac{5}{16}$  (UN)

Contr. No. 671 Sp. 2DE of 28

WORK THIS SHEET WITH SHEET 28A, 28B, 28C & 28E.

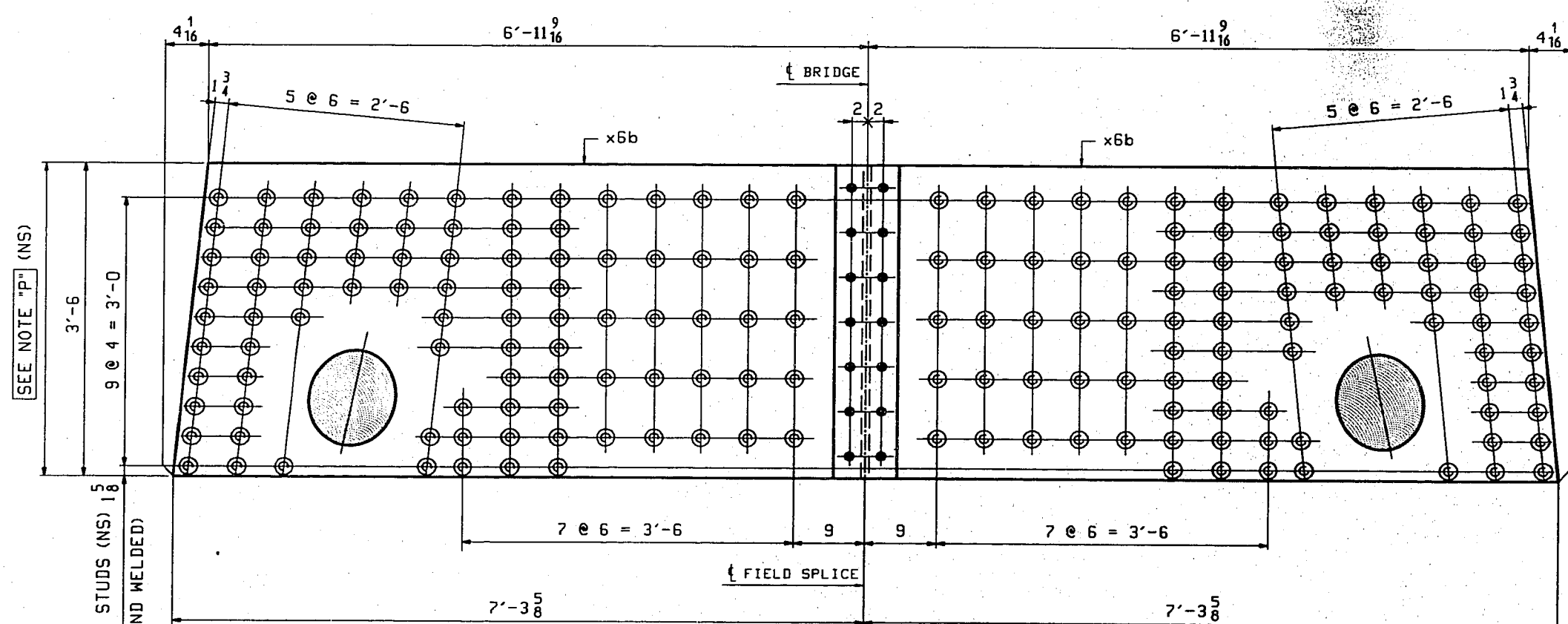
TENSOR 1821-1





**DETAIL "S1"**  
(INSIDE PLATES NOT SHOWN)

**NOTE "P"**  
EMBEDDED AREA IS TO RECEIVE 1.5 MILS OF  
PAINT THICKNESS AS DEFINED ON SHEET GNI.



**DETAIL "S2"**  
(INSIDE PLATES NOT SHOWN)

BILL OF MATERIAL							
LN	KIND	SECTION	LENGTH	REQ.	MARK	GRADE	REMARKS
1		CABLE FRAME		1	B2		ALIKE EXCEPT FOR M.L. OR 12558
2		CABLE FRAME		1	C2		12558
3	PL	42 x 1/2	8	8	x1a	A270-50 F2	2/4
4	PL	34 x 1	12'-10	4	x1g	A270-50 F2	2/4
5	PL	13 1/2 x 1/2	1'-10 1/2	2	x1ba	A270-50 F2	2/11
6	PL	12 x 1/2	1'-10 1/2	2	x1bn	A270-50 F2	2/14
7	PL	13 1/2 x 1/2	1'-10 1/2	2	x1cn	A270-50 F2	2/11
8	PL	12 1/2 x 1/2	1'-11 1/2	2	x1cn	A270-50 F2	2/14
9	PL	42 x 1/2	12'-10	2	x3b	A270-50 F2	2/3
10	PL	26 1/2 x 1/2	3'-6 1/2	2	x4n	A270-50 F2	2/12
11	PL	26 1/2 x 1/2	3'-6 1/2	2	x4ab	A270-50 F2	2/4
12	PL	9 x 1/2	1'-2 1/2	4	x4ba	A270-50 F2	2/4
13							
14	PL	24 1/2 x 1/2	3'-4 1/2	2	x5b	A270-50 F2	2/10
15	PL	24 1/2 x 1/2	3'-3 1/2	2	x5n	A270-50 F2	2/13
16	PL	24 1/2 x 1/2	3'-4 1/2	2	x5ab	A270-50 F2	2/10
17	PL	24 1/2 x 1/2	3'-3 1/2	2	x5an	A270-50 F2	2/13
18							
19	PL	42 x 1	7'-3 1/2	2	x6b	A270-50 F2	2/3
20	PL	42 x 1	7'-3 1/2	2	x6n	A270-50 F2	2/3
21	PL	18 1/2 x 3	1'-10	4	x7a	A270-50 F2	2/7
22	PL	3 1/2 x 2	6	2	x7ba	A270-50	1/19
23	PL	3 1/2 x 2	6	2	x7bb	A270-50	1/19
24							
25	CRP SCREW	3/8"	1 1/2	16	A574	NO NUTS SOCKET HEAD	5/12
26	WASH	3/8"		16	F844		5/15
27	STUD	3/8"	8	824	A108		5/3
28							
29							
30							
31		CABLE FRAME		1	B2		ALIKE EXCEPT FOR M.L. OR 12362
32		CABLE FRAME		1	D2		12362
33	PL	34 x 1	12'-10	4	x1g	A270-50 F2	2/4
34	PL	13 1/2 x 1/2	1'-10 1/2	2	x1ba	A270-50 F2	2/11
35	PL	12 x 1/2	1'-10 1/2	2	x1bn	A270-50 F2	2/14
36	PL	13 1/2 x 1/2	1'-10 1/2	2	x1ca	A270-50 F2	2/11
37	PL	12 1/2 x 1/2	1'-11 1/2	2	x1cn	A270-50 F2	2/14
38	PL	42 x 1/2	12'-10	2	x2b	A270-50 F2	2/3
39	PL	26 1/2 x 1/2	3'-6 1/2	2	x4b	A270-50 F2	2/4
40	PL	26 1/2 x 1/2	3'-6 1/2	2	x4an	A270-50 F2	2/12
41	PL	9 x 1/2	1'-2 1/2	4	x4ba	A270-50 F2	2/4
42							
43	PL	24 1/2 x 1/2	3'-4 1/2	2	x5b	A270-50 F2	2/10
44	PL	24 1/2 x 1/2	3'-3 1/2	2	x5n	A270-50 F2	2/13
45	PL	24 1/2 x 1/2	3'-4 1/2	2	x5ab	A270-50 F2	2/10
46	PL	24 1/2 x 1/2	3'-3 1/2	2	x5an	A270-50 F2	2/13
47							
48	PL	42 x 1	7'-3 1/2	2	x6b	A270-50 F2	2/3
49	PL	42 x 1	7'-3 1/2	2	x6n	A270-50 F2	2/3
50	PL	18 1/2 x 3	1'-10	4	x7a	A270-50 F2	2/7
51							
52	CRP SCREW	3/8"	1 1/2	16	A574	NO NUTS SOCKET HEAD	5/12
53	WASH	3/8"		16	F844		5/15
54	STUD	3/8"	8	824	A108		5/3
55							

CABLE FRAMES #2

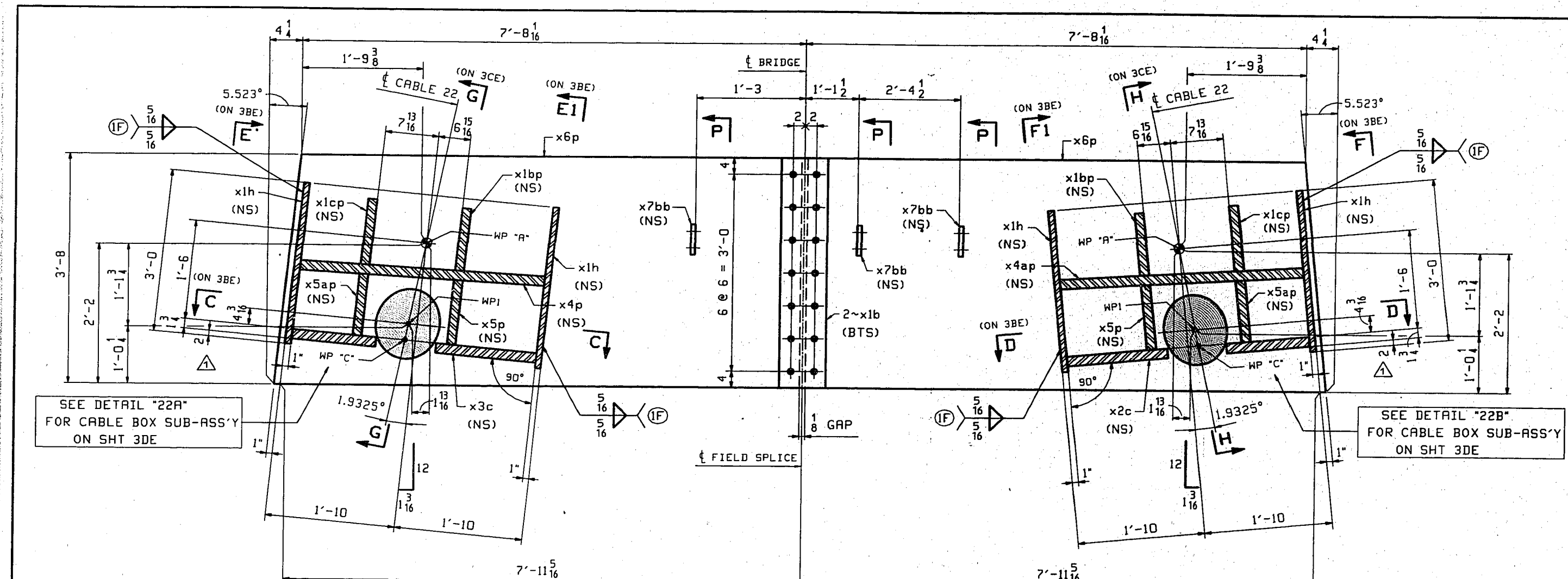
**VINCENNES STEEL CORP.**  
VINCENNES, IND.

Drawn	Checked	Approved	Revised
RB	TAM		RB/TAM
9/26/98	10/19/98		11/19/98

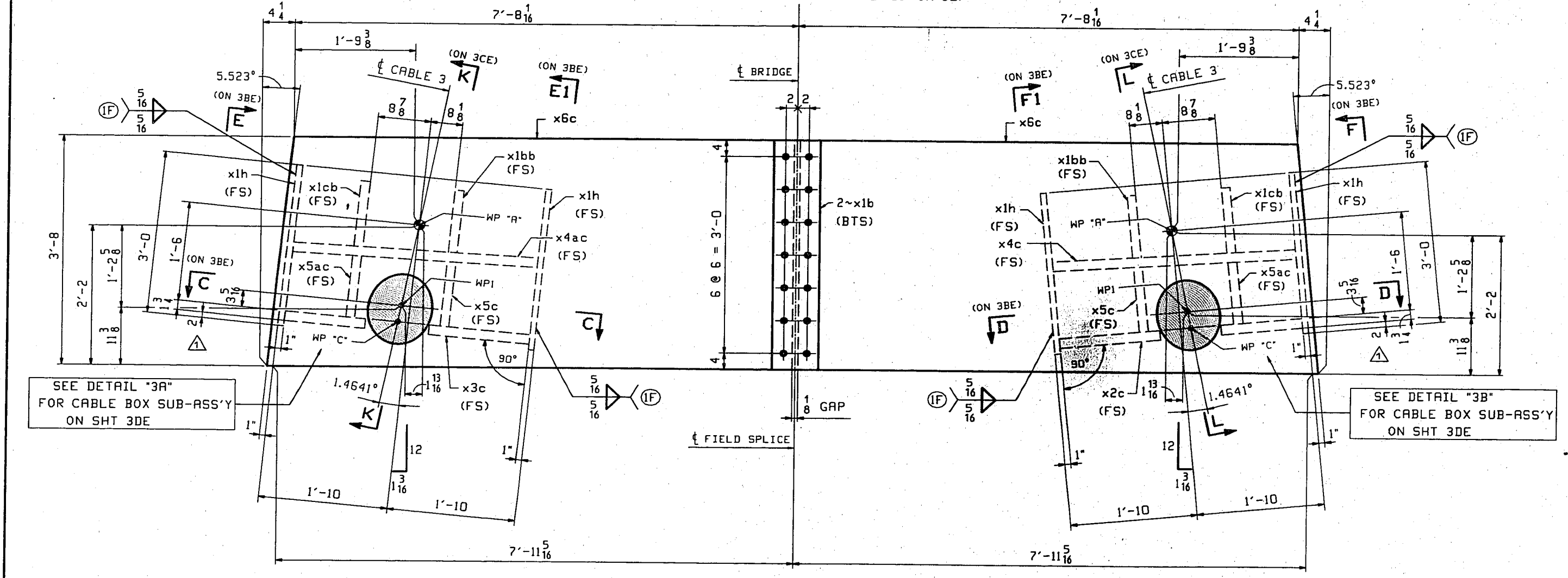
U.S. 231 OVER THE OHIO RIVER AND INDIANA 65  
KENTUCKY D.O.H. / INDIANA D.O.T.  
DAVIES COUNTY, KY / SPENCER COUNTY, IND  
PROJ. 00K8B 00101 001

Shop Point SEE GNI  
Edge Distance AS NOTED Holes: 1/4" (LN)  
Contr. No. 671 Sh. 2E of

WORK THIS SHEET WITH SHEET 2AE, 2BE, 2CE & 2DE.



**SECTION A-A**  
(ELEVATION @ FRONT PLATE "A")  
(STUDS NOT SHOWN - SEE DETAIL "S1" ON 3E)

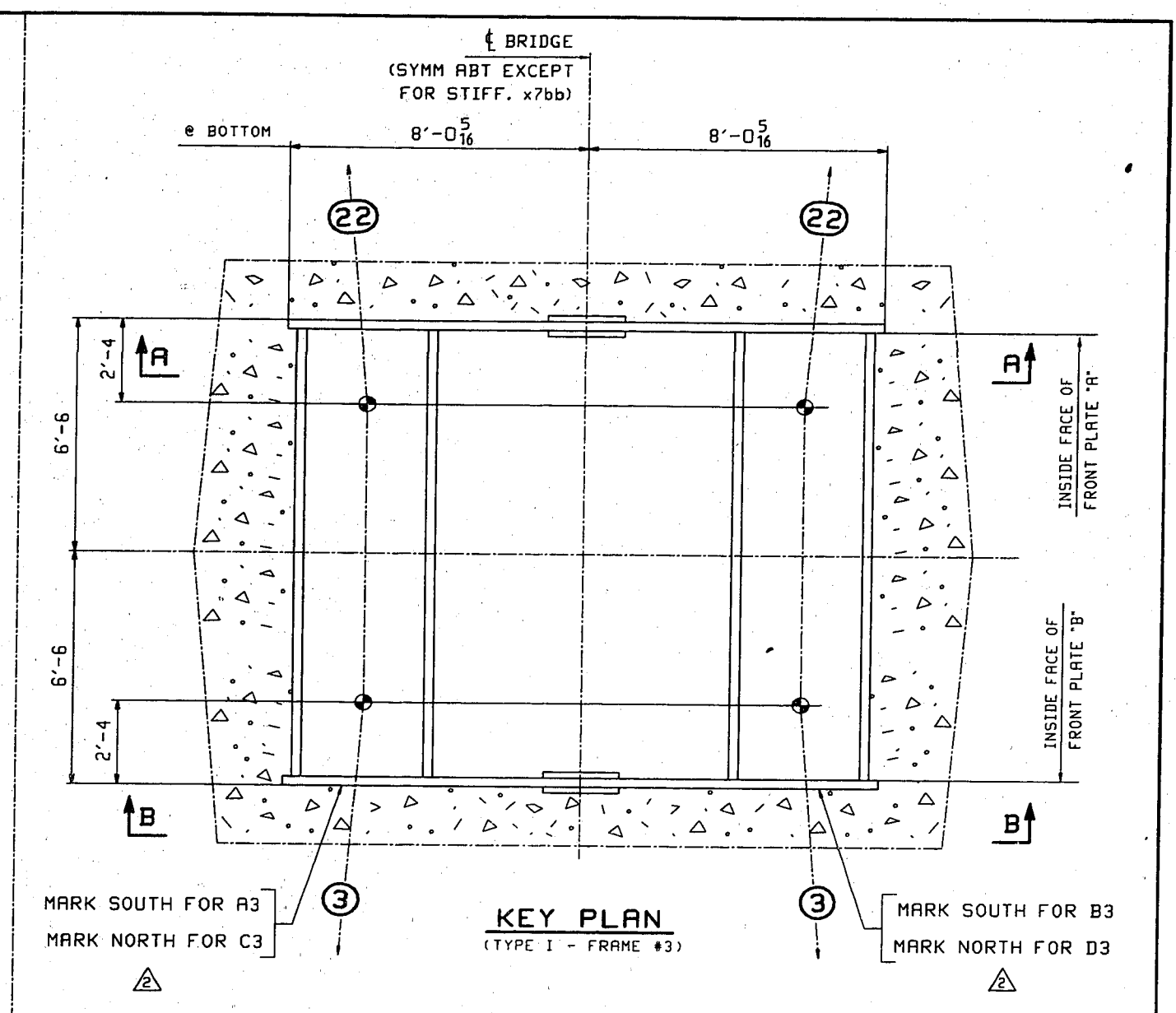


**VIEW B-B**  
(ELEVATION @ FRONT PLATE "B")  
(STUDS NOT SHOWN - SEE DETAIL "S2" ON 3E)

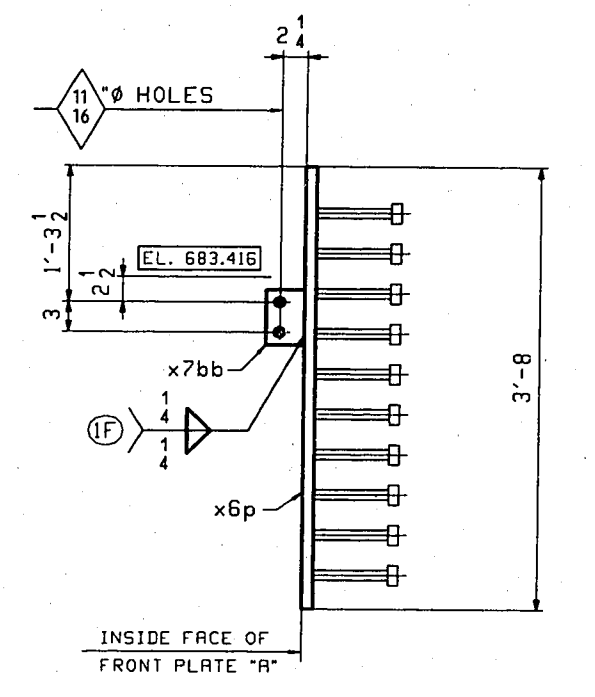
ONE ~ CABLE FRAME ~ A3  
(FRAME #3 @ PIER B)  
ALIKE EXCEPT FOR MARK & DR

ONE ~ CABLE FRAME ~ B3  
(FRAME #3 @ PIER B)  
ALIKE EXCEPT FOR MARK & DR

ONE ~ CABLE FRAME ~ C3  
(FRAME #3 @ PIER C)  
ALIKE EXCEPT FOR MARK & DR



**KEY PLAN**  
(TYPE I - FRAME #3)



**SECTION -P**

- NOTES:**
- FOR CABLE FRAME STANDARD DETAILS SEE SHT. X1 - X7.
  - FOR GENERAL NOTES SEE SHEET GNI.
  - ALL MATERIAL TO BE M270 GR50 (FCM) (UN). (FCM - DENOTES FRACTURE CRITICAL MATERIAL)
  - ALL HOLES TO BE DR(U).
  - BTS = BOLT TO SHIP.

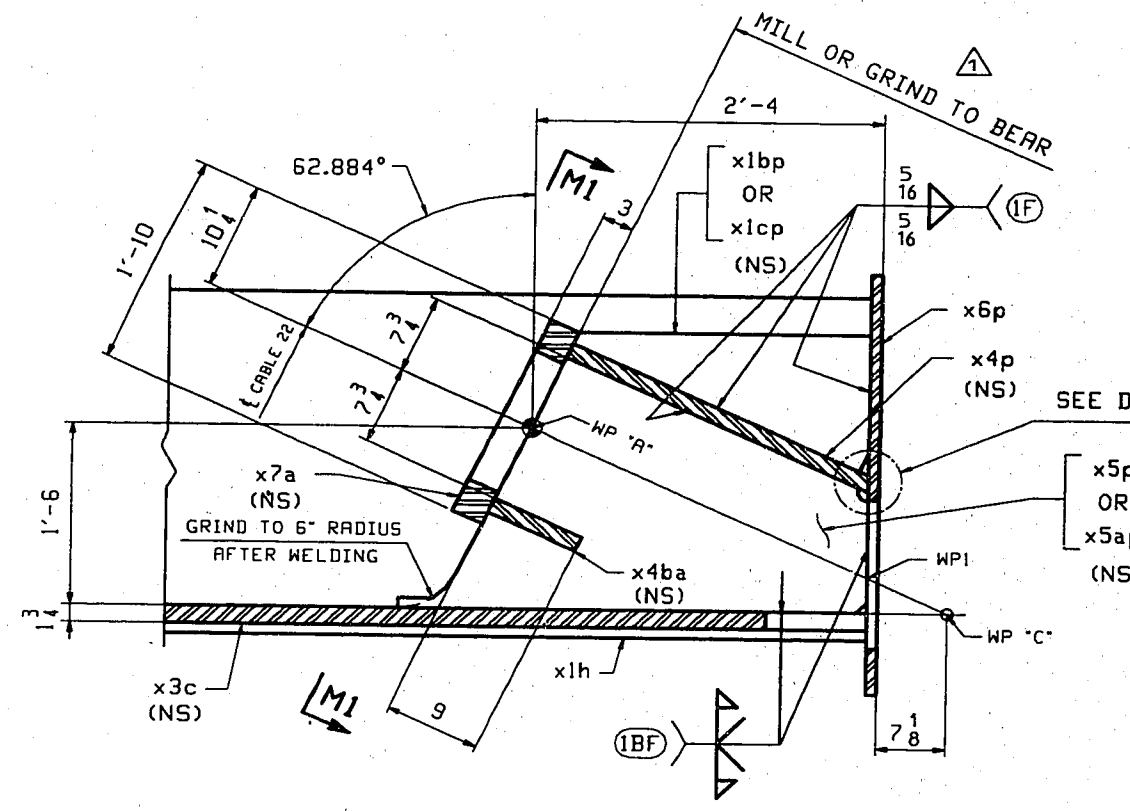
CABLE FRAMES #3			
VINCENNES STEEL CORP.			
VINCENNES, IND.			
Drawn	Checked	Approved	Revised
RB	TRM		
9/26/98	10/19/98		12/22/98
U.S. 231 OVER THE OHIO RIVER AND INDIANA 66			
KENTUCKY D.O.H. / INDIANA D.O.T.			
DAVIESS COUNTY, KY / SPENCER COUNTY, IND			
PROJ. 00K03 0001 001			
Shop Print SEE GNI			
Edge Distance AS NOTED		Holes: 1/8" (UN)	
Contr. No. 671		Sh. 3AE of 30	

WORK THIS SHEET WITH SHEET 3BE, 3CE, 3DE & 3E.

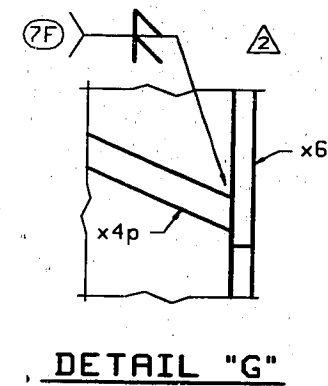
TENSON 1821-1



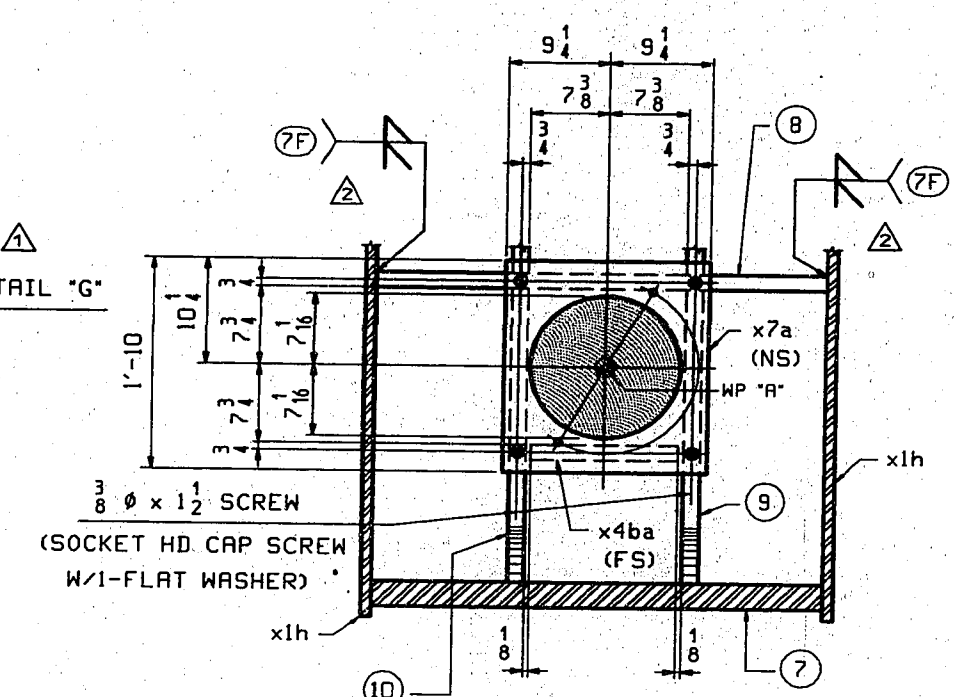




SECTION G-G  
(DEV.)

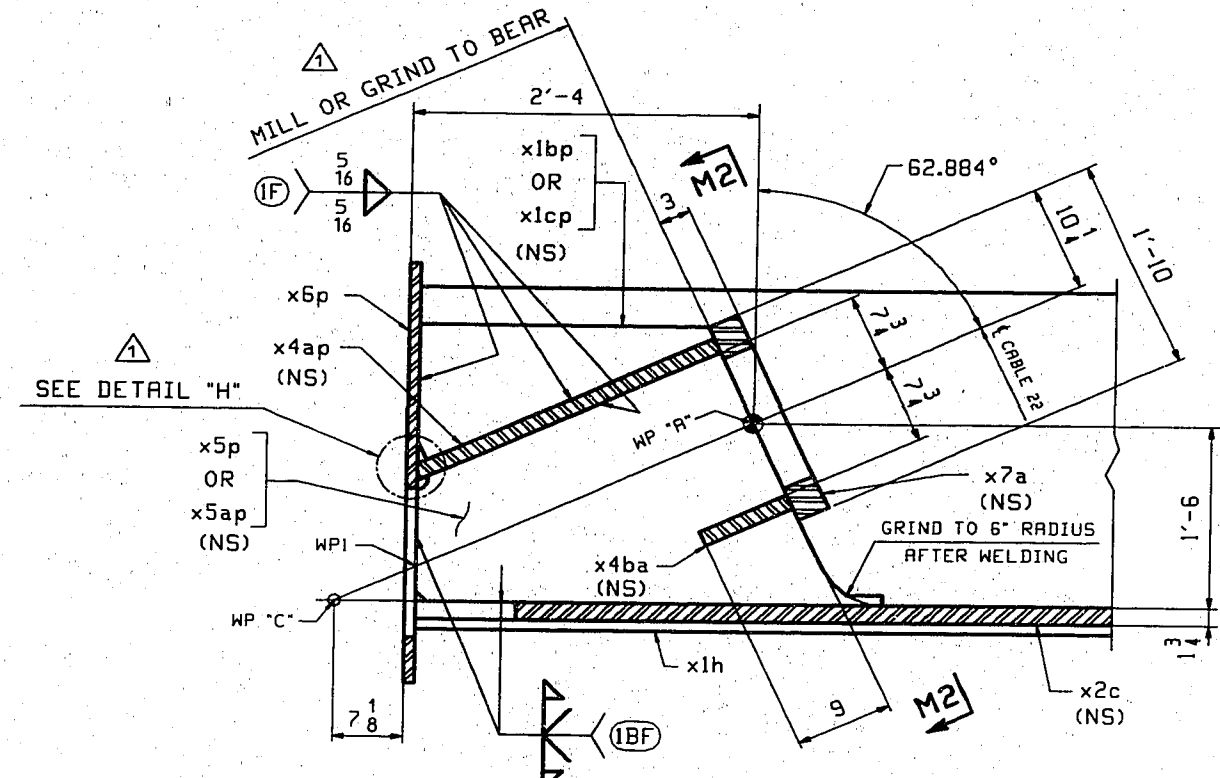


DETAIL "G"

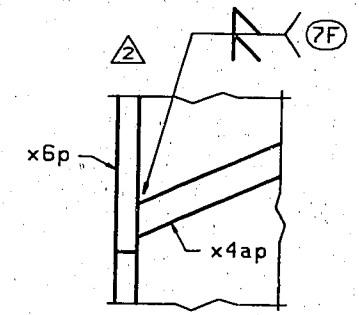


SECTION @ BRG PL

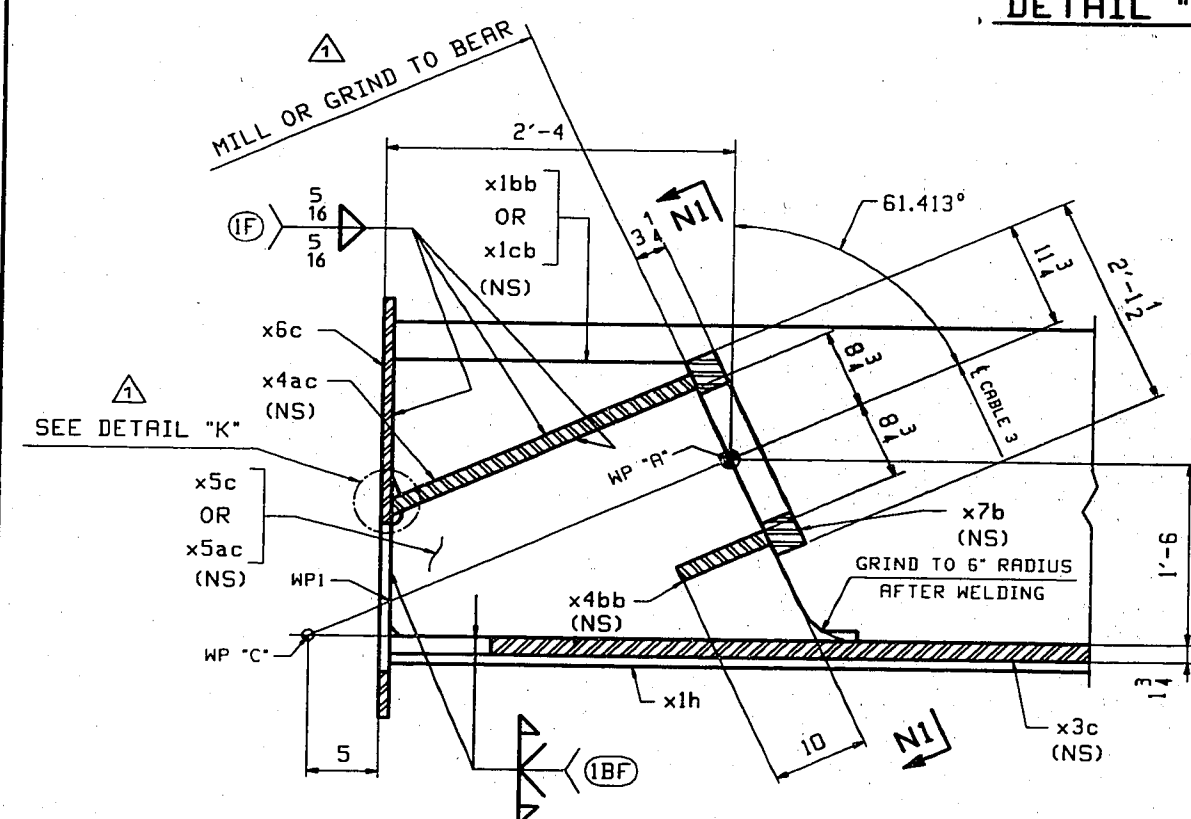
SECTION	7	8	9	10
(DEV.) M1-M1	x3c	x4p	x5p	x5ap
(DEV.) M2-M2	x2c	x4ap	x5ap	x5p



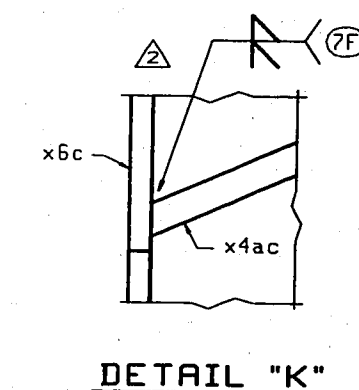
SECTION H-H  
(DEV.)



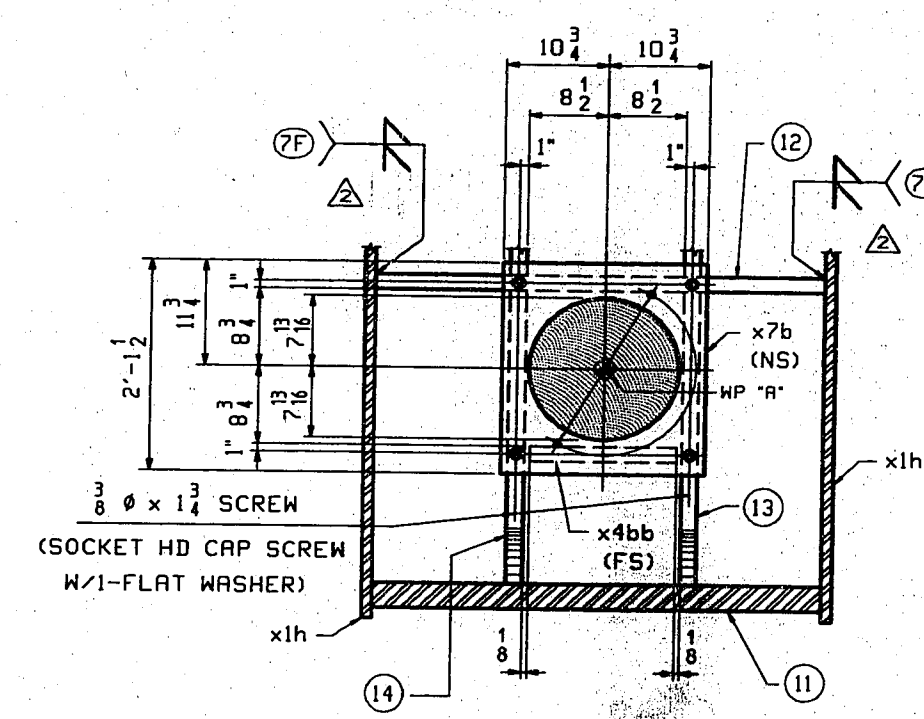
DETAIL "H"



SECTION K-K  
(DEV.)

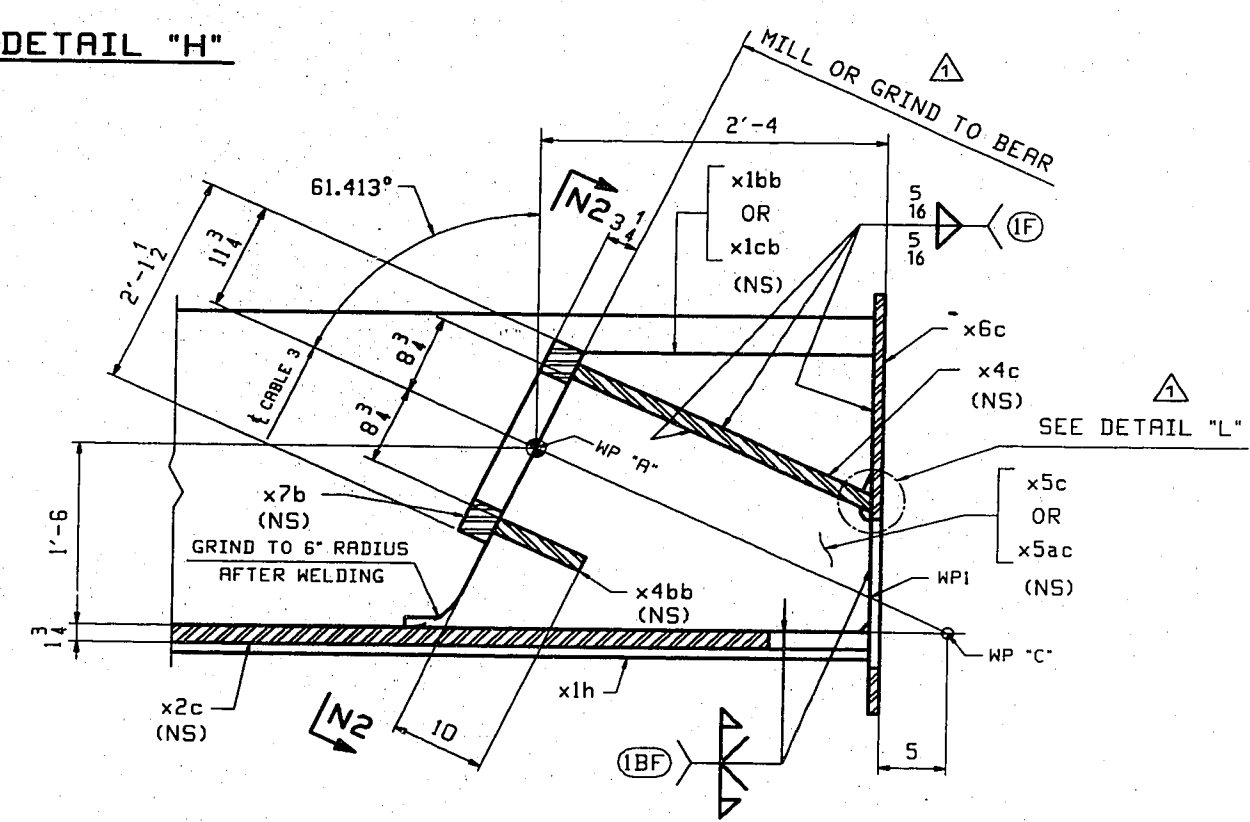


DETAIL "K"

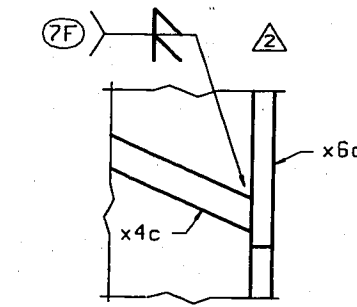


SECTION @ BRG PL

SECTION	11	12	13	14
(DEV.) N1-N1	x3c	x4ac	x5ac	x5c
(DEV.) N2-N2	x2c	x4c	x5c	x5ac



SECTION L-L  
(DEV.)



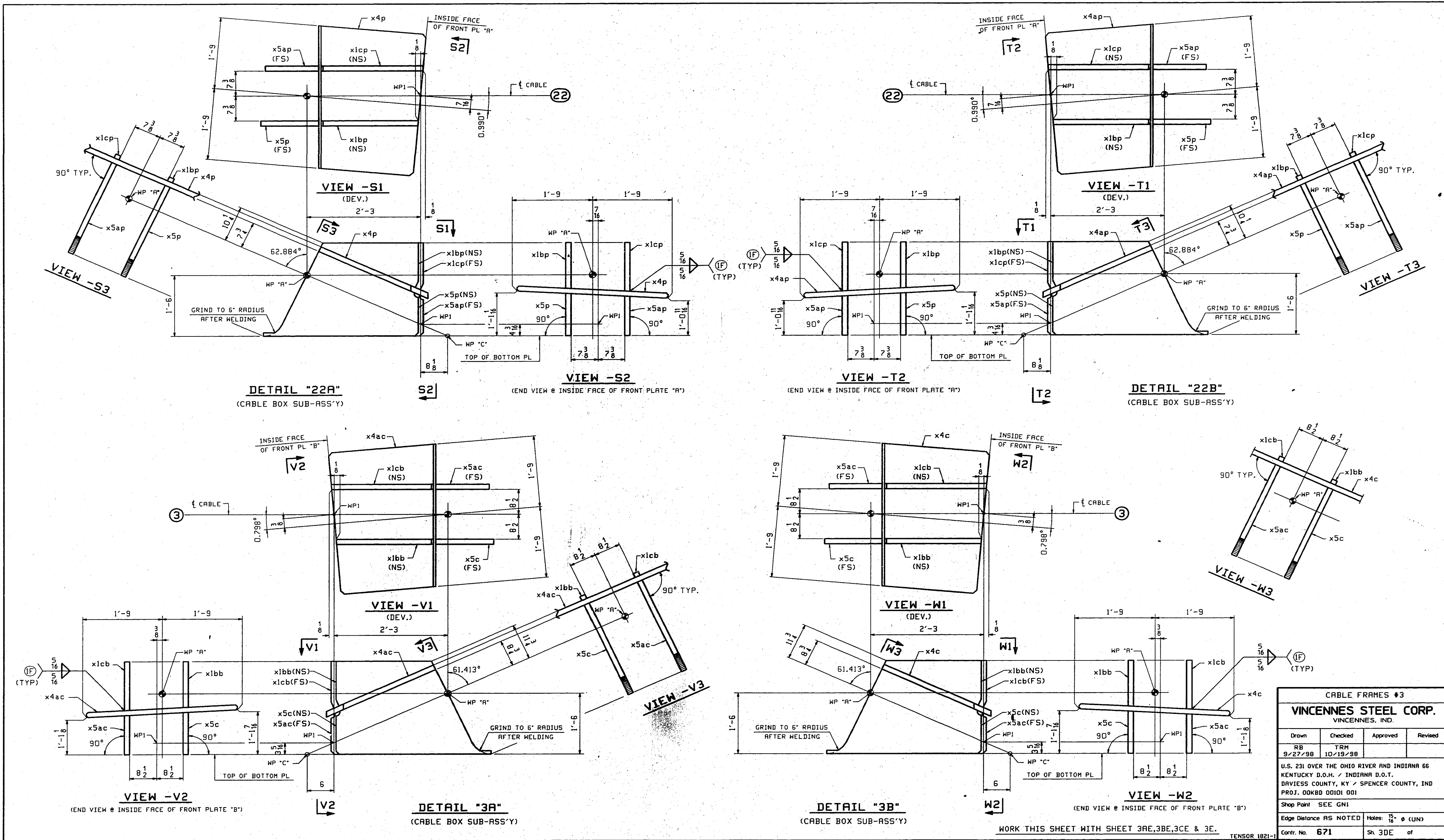
DETAIL "L"

WORK THIS SHEET WITH SHEET 3AE, 3BE, 3DE & 3E.

TENSOR 1821-

CABLE FRAMES #3			
VINCENNES STEEL CORP.			
VINCENNES, IND.			
Drawn	Checked	Approved	Revised
RB	TRM		RB/TRM
9/27/98	10/19/98		11/19/98
U.S. 231 OVER THE OHIO RIVER AND INDIANA 66			
KENTUCKY D.O.H. / INDIANA D.O.T.			
DAVIESS COUNTY, KY / SPENCER COUNTY, IND			
PROJ. 00KBD 0001 001			
Shop Part SEE GNI			
Edge Distance AS NOTED		Holes: 1/8" φ (LUN)	
Contr. No. 671		Sh. 3CE of	





**DETAIL "22A"**  
(CABLE BOX SUB-ASS'Y)

**VIEW -S2**  
(END VIEW @ INSIDE FACE OF FRONT PLATE "A")

**VIEW -T2**  
(END VIEW @ INSIDE FACE OF FRONT PLATE "A")

**DETAIL "22B"**  
(CABLE BOX SUB-ASS'Y)

**VIEW -V2**  
(END VIEW @ INSIDE FACE OF FRONT PLATE "B")

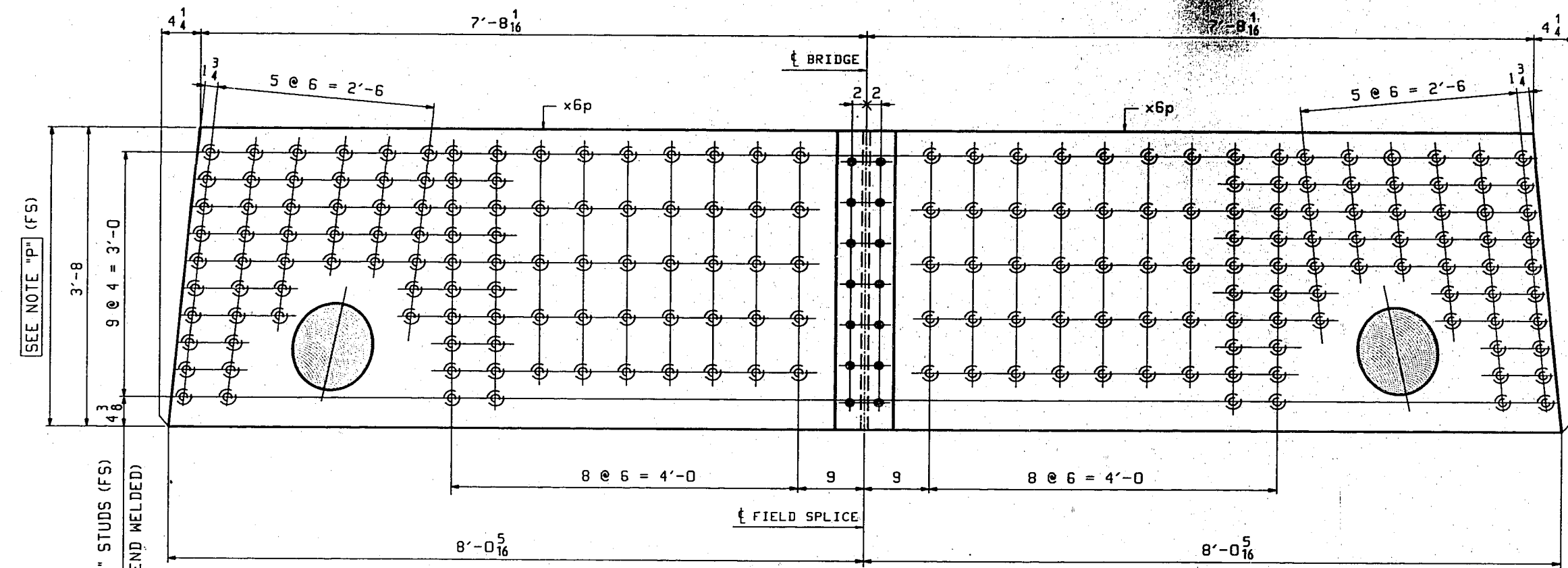
**DETAIL "3A"**  
(CABLE BOX SUB-ASS'Y)

**DETAIL "3B"**  
(CABLE BOX SUB-ASS'Y)

**VIEW -W2**  
(END VIEW @ INSIDE FACE OF FRONT PLATE "B")

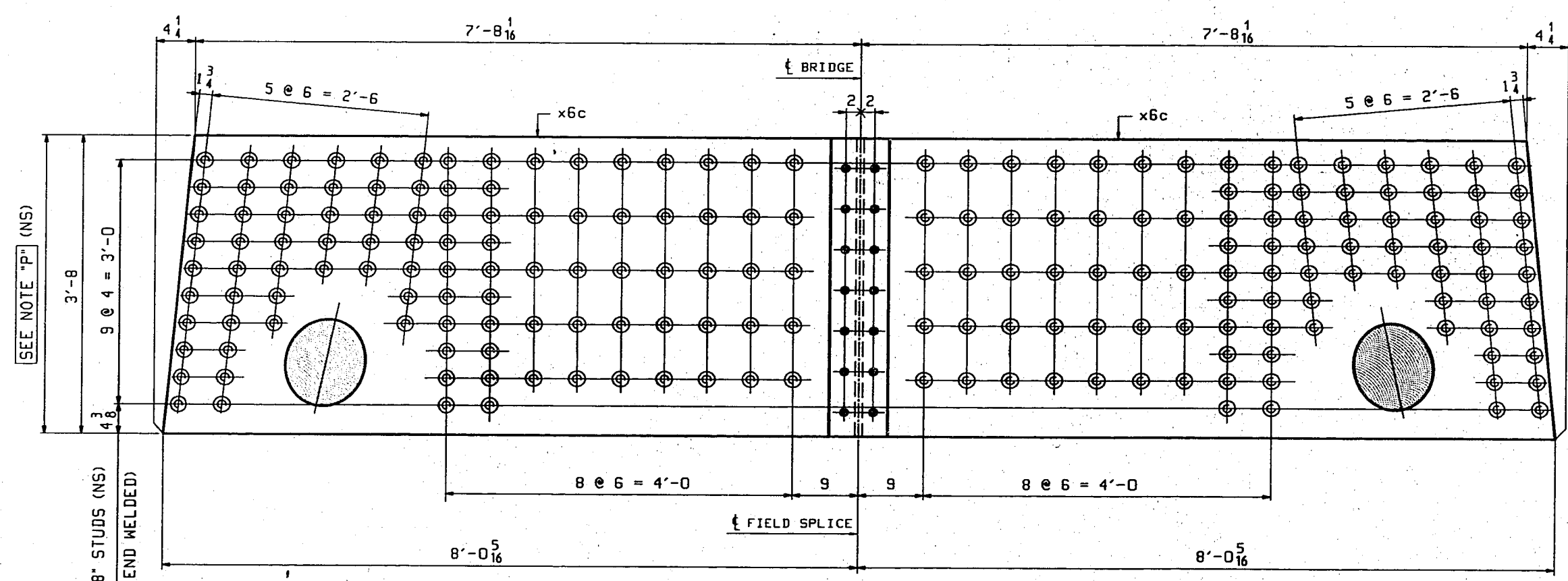
WORK THIS SHEET WITH SHEET 3AE, 3BE, 3CE & 3E.

CABLE FRAMES #3			
VINCENNES STEEL CORP.			
VINCENNES, IND.			
Drawn	Checked	Approved	Revised
RB	TRH		
9/22/38	10/18/38		
U.S. 231 OVER THE OHIO RIVER AND INDIANA 66			
KENTUCKY D.O.H. / INDIANA D.O.T.			
DAVIESS COUNTY, KY / SPENCER COUNTY, IND			
PROJ. 00KBD 0001 001			
Shop Point SEE GNI			
Edge Distance AS NOTED			
Notes: 1/16" ± (LUN)			
Contr. No. 671	Sh. 3DE of		



**DETAIL "S1"**  
(INSIDE PLATES NOT SHOWN)

**NOTE "P"**  
EMBEDDED AREA IS TO RECEIVE 1.5 MILS OF  
PAINT THICKNESS AS DEFINED ON SHEET GNI.



**DETAIL "S2"**  
(INSIDE PLATES NOT SHOWN)

BILL OF MATERIAL							
LN	KIND	SECTION	LENGTH	REQ.	MARK	GRADE	REMARKS
1	CABLE FRAME			1	A3		ALIKE EXCEPT FOR NO. 1, DR. 14331
2	CABLE FRAME			1	D3		14331
3	PL	44 x 1/2	8	6	x1h	A270-50 F2	3/5
4	PL	36 x 1	12'-10	4	x1h	A270-50 F2	3/4
5	PL	12 1/2 x 2	1'-9 1/2	2	x1bb	A270-50 F2	3/11
6	PL	12 1/2 x 1 1/2	1'-10 3/8	2	x1bp	A270-50 F2	3/11
7	PL	12 1/2 x 2	1'-10	2	x1cb	A270-50 F2	3/11
8	PL	12 1/2 x 1 1/2	1'-10 3/8	2	x1cp	A270-50 F2	3/11
9	PL	42 x 1 1/2	12'-10	2	x3c	A270-50 F2	3/5
10	PL	26 1/2 x 1 1/2	3'-6 3/8	2	x4p	A270-50 F2	3/14
11	PL	26 1/2 x 2	3'-6 3/8	2	x4ac	A270-50 F2	3/14
12	PL	9 x 1 1/2	1'-2 1/2	2	x4ba	A270-50 F2	3/13
13	PL	10 x 2	1'-4 1/2	2	x4bb	A270-50 F2	3/13
14	PL	25 1/2 x 2	3'-4 1/2	2	x5c	A270-50 F2	3/10
15	PL	25 x 1 1/2	3'-3 1/2	2	x5p	A270-50 F2	3/15
16	PL	25 1/2 x 2	3'-4 1/2	2	x5ac	A270-50 F2	3/10
17	PL	24 1/2 x 1 1/2	3'-4 1/2	2	x5ap	A270-50 F2	3/15
18	PL	44 x 1	8'-0 1/2	2	x6c	A270-50 F2	3/3
19	PL	44 x 1	8'-0 1/2	2	x6p	A270-50 F2	3/3
20	PL	18 1/2 x 3	1'-10	2	x7a	A270-50 F2	3/12
21	PL	21 1/2 x 3 1/4	2'-1 1/2	2	x7b	A270-50 F2	3/7
22	PL	3 1/2 x 2	6	2	x7bb	A270-50	1/13
23							
24	WASHER	3/8"	12	8	A574	NO NUTS SOCKET HEAD	9/12
25	WASHER	3/8"	12	8	A574	NO NUTS SOCKET HEAD	9/13
26	WASHER	3/8"	16	16	F844		9/15
27	STUD	3/8"	8	8	918	A108	9/3
28							
29							
30	CABLE FRAME			1	B3		ALIKE EXCEPT FOR NO. 1, DR. 14134
31	CABLE FRAME			1	D3		14134
32	PL	36 x 1	12'-10	4	x1h	A270-50 F2	3/4
33	PL	12 1/2 x 2	1'-9 1/2	2	x1bb	A270-50 F2	3/11
34	PL	12 1/2 x 1 1/2	1'-10 3/8	2	x1bp	A270-50 F2	3/11
35	PL	12 1/2 x 2	1'-10	2	x1cb	A270-50 F2	3/11
36	PL	12 1/2 x 1 1/2	1'-10 3/8	2	x1cp	A270-50 F2	3/11
37	PL	42 x 1 1/2	12'-10	2	x3c	A270-50 F2	3/5
38	PL	26 1/2 x 2	3'-6 3/8	2	x4c	A270-50 F2	3/14
39	PL	26 1/2 x 1 1/2	3'-6 3/8	2	x4ap	A270-50 F2	3/14
40	PL	9 x 1 1/2	1'-2 1/2	2	x4ba	A270-50 F2	3/13
41	PL	10 x 2	1'-4 1/2	2	x4bb	A270-50 F2	3/13
42	PL	25 1/2 x 2	3'-4 1/2	2	x5c	A270-50 F2	3/10
43	PL	25 x 1 1/2	3'-3 1/2	2	x5p	A270-50 F2	3/15
44	PL	25 1/2 x 2	3'-4 1/2	2	x5ac	A270-50 F2	3/10
45	PL	24 1/2 x 1 1/2	3'-4 1/2	2	x5ap	A270-50 F2	3/15
46	PL	44 x 1	8'-0 1/2	2	x6c	A270-50 F2	3/3
47	PL	44 x 1	8'-0 1/2	2	x6p	A270-50 F2	3/3
48	PL	18 1/2 x 3	1'-10	2	x7a	A270-50 F2	3/12
49	PL	21 1/2 x 3 1/4	2'-1 1/2	2	x7b	A270-50 F2	3/7
50	PL	3 1/2 x 2	6	4	x7bb	A270-50	1/13
51							
52	WASHER	3/8"	12	8	A574	NO NUTS SOCKET HEAD	9/12
53	WASHER	3/8"	12	8	A574	NO NUTS SOCKET HEAD	9/13
54	WASHER	3/8"	16	16	F844		9/15
55	STUD	3/8"	8	8	918	A108	9/3

**CABLE FRAMES #3**  
**VINCENNES STEEL CORP.**  
VINCENNES, IND.

Drawn	Checked	Approved	Revised
RB	TRM		
9/27/98	10/19/98		11/19/98

U.S. 231 OVER THE OHIO RIVER AND INDIANA 66  
KENTUCKY D.O.H. / INDIANA D.O.T.  
BRIVISS COUNTY, KY / SPENCER COUNTY, IND  
PROJ. 00KBD 0001 001

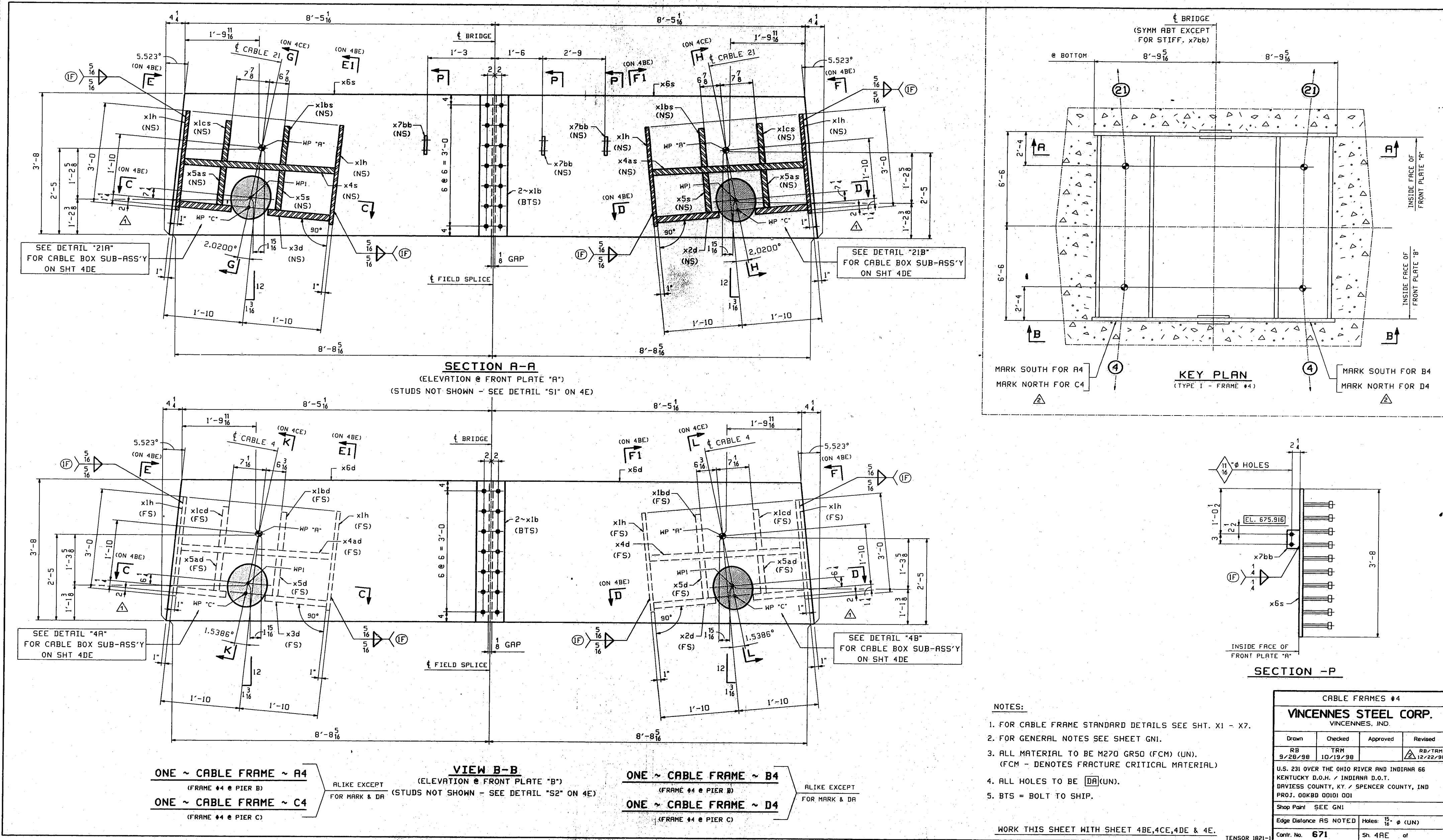
Shop Plans SEE GNI

Edge Distance AS NOTED Holes 15/16" Ø (MIN)

Contr. No. 671 Sh. 3E of

WORK THIS SHEET WITH SHEET 3AE, 3BE, 3CE & 3DE. TENSOR 1821-1

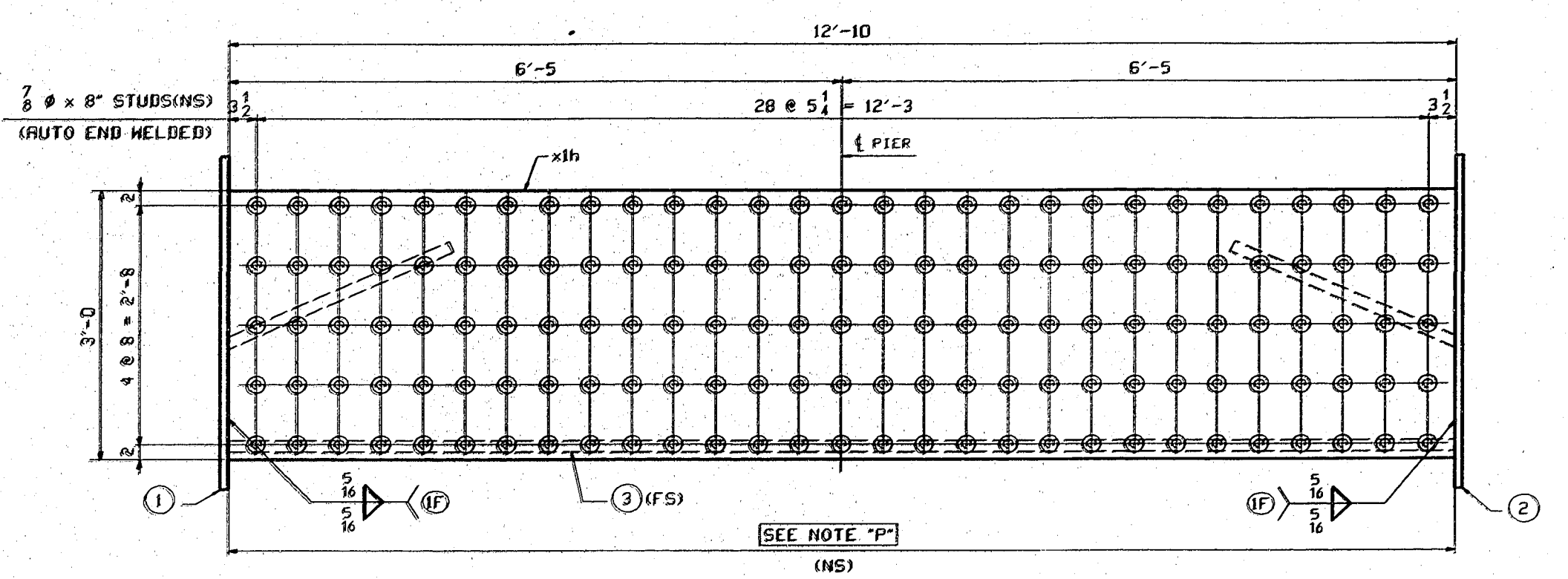
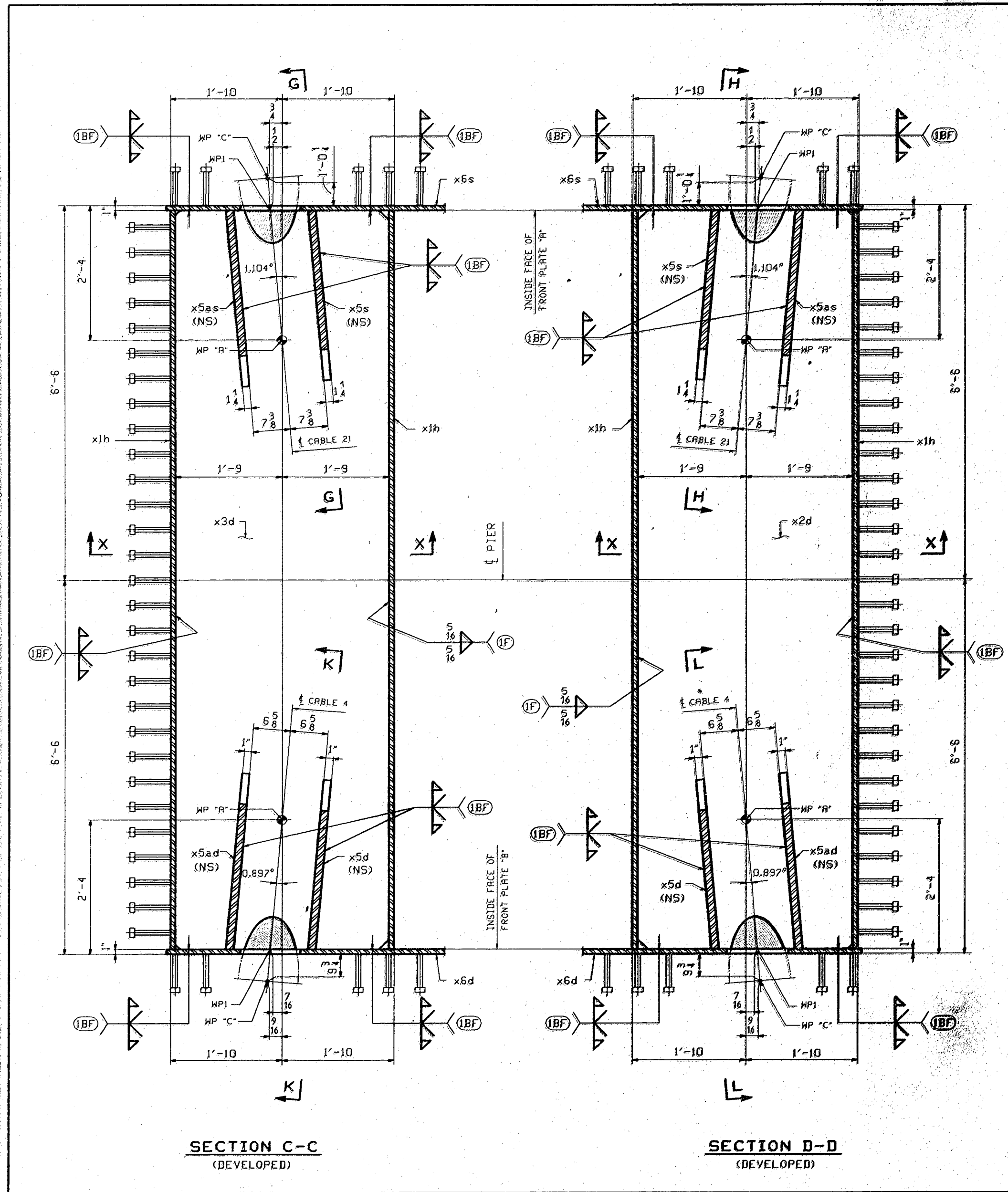




- NOTES:**
1. FOR CABLE FRAME STANDARD DETAILS SEE SHT. XI - X7.
  2. FOR GENERAL NOTES SEE SHEET GNI.
  3. ALL MATERIAL TO BE M270 GR50 (FCM) (UN). (FCM - DENOTES FRACTURE CRITICAL MATERIAL)
  4. ALL HOLES TO BE DR (UN).
  5. BTS = BOLT TO SHIP.

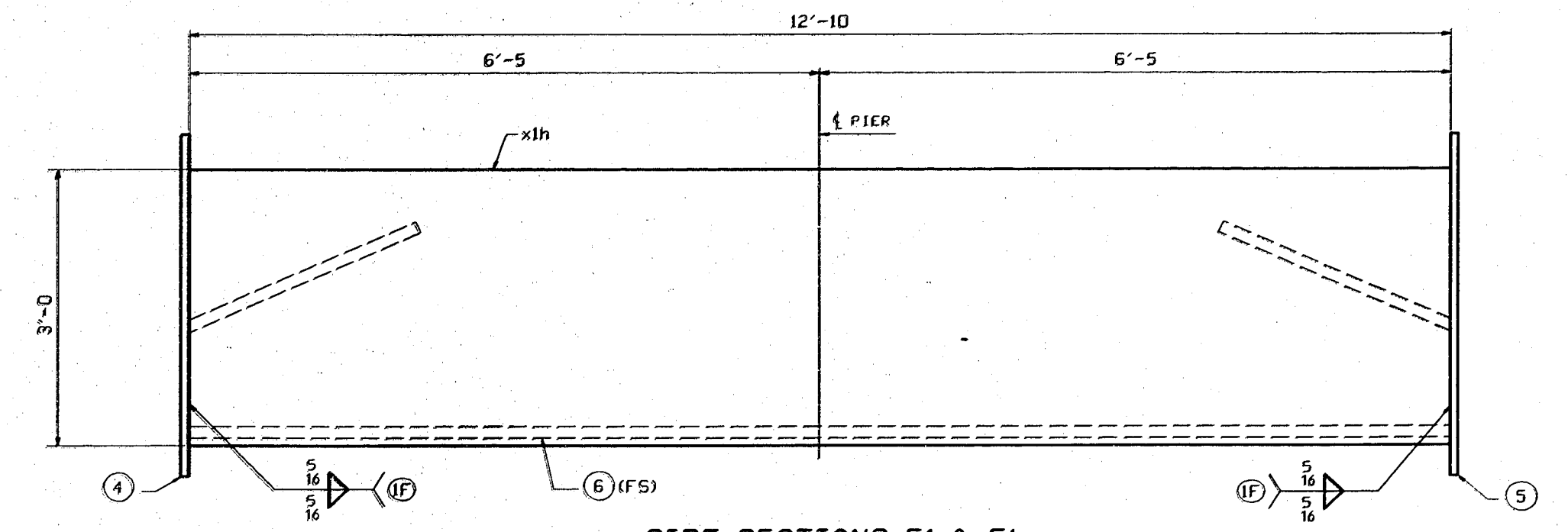
CABLE FRAMES #4			
VINCENNES STEEL CORP. VINCENNES, IND.			
Drawn	Checked	Approved	Revised
RB	TRM		RB/TRM
9/28/98	10/19/98		12/22/98
U.S. 231 OVER THE OHIO RIVER AND INDIANA 66 KENTUCKY D.O.H. / INDIANA D.O.T. DAVIESS COUNTY, KY / SPENCER COUNTY, IND PROJ. 00KBB 0001 001			
Shop Print SEE GNI			
Edge Distance AS NOTED		Holes: 1/4" (UN)	
Contr. No. 671		Sh. 4RE	of

WORK THIS SHEET WITH SHEET 4BE, 4CE, 4DE & 4E.  
TENSOR 1821-

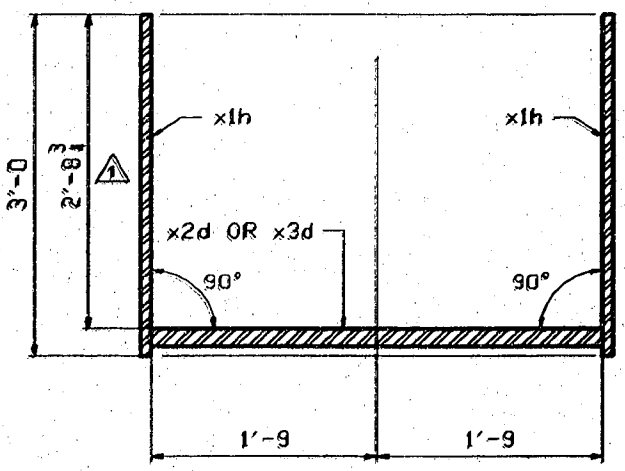


NOTE "P"  
EMBEDDED AREA IS TO RECEIVE 1.5 MILS OF PAINT THICKNESS AS DEFINED ON SHEET GNI.

VIEW	(1)	(2)	(3)
E	x6s	x6d	x3d
F	x6d	x6s	x2d



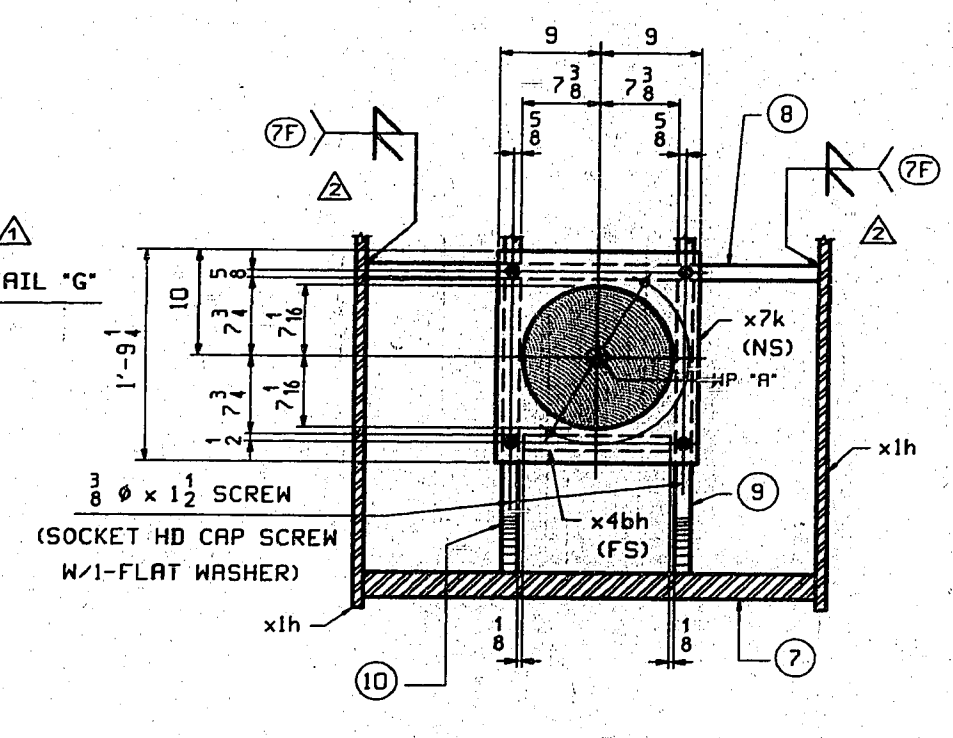
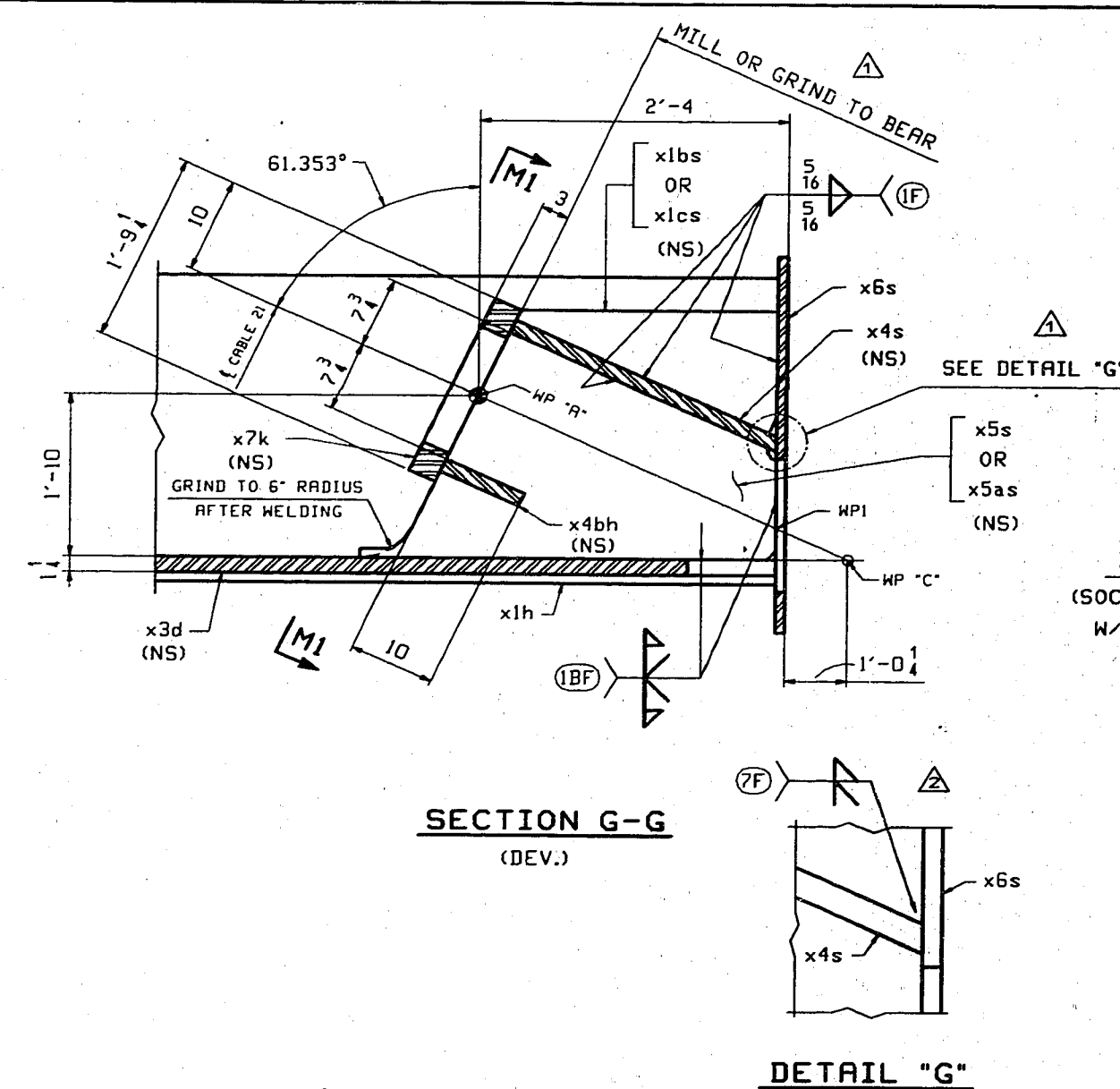
SECTION	(4)	(5)	(6)
E1	x6d	x6s	x3d
F1	x6s	x6d	x2d



WORK THIS SHEET WITH SHEET 4A, 4C, 4D & 4E.

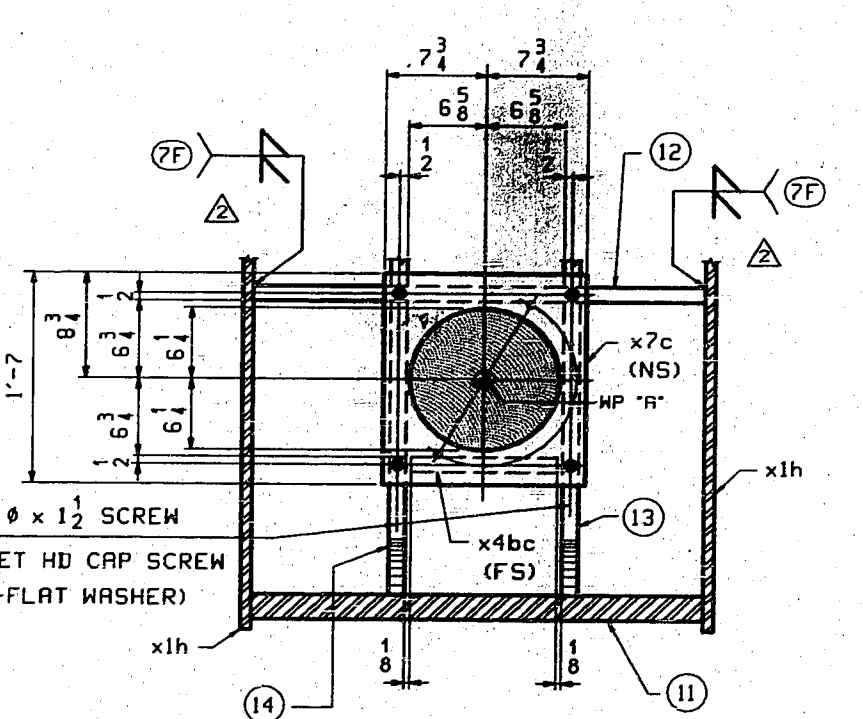
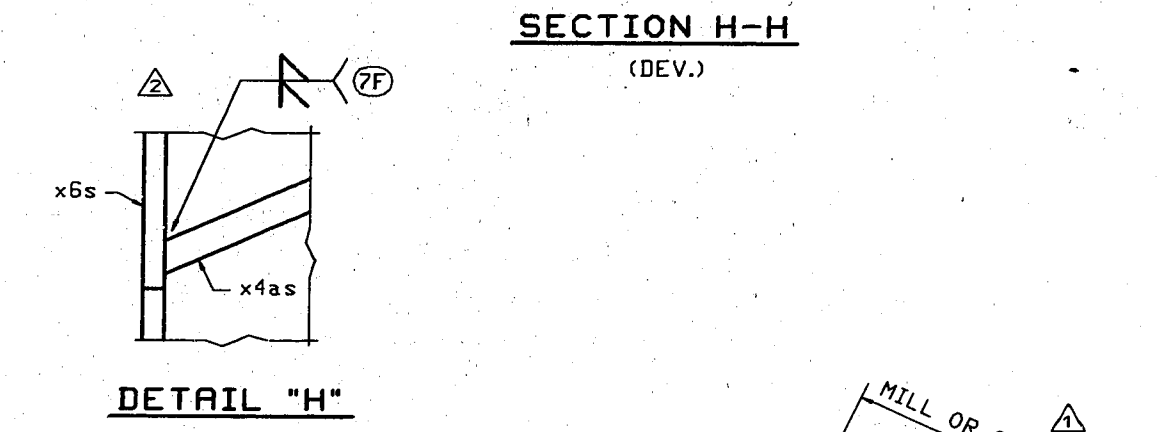
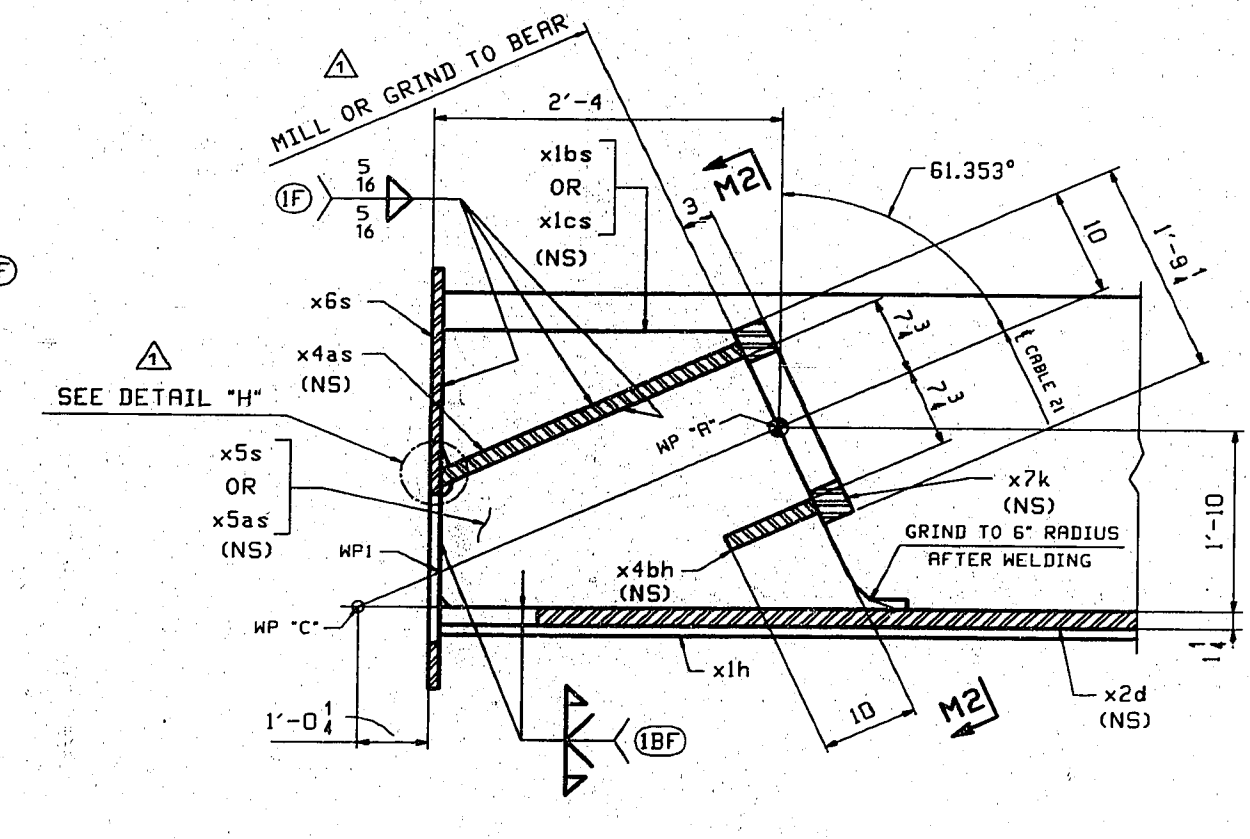
CABLE FRAMES #4			
VINCENNES STEEL CORP. VINCENNES, IND.			
Drawn	Checked	Approved	Revised
RB	TRM		RB/TRM
9/28/98	10/19/98		11/10/98
U.S. 231 OVER THE OHIO RIVER AND INDIANA 66 KENTUCKY D.O.M. / INDIANA D.O.T. DAVISS COUNTY, KY / SPENCER COUNTY, IND PROJ. DOKBDD DDDI DDI			
Shop Print SEE GNI			
Edge Distance AS NOTED			
Holes: 1/2" Ø (LN)			
Contr. No	671	Sh	4BE of





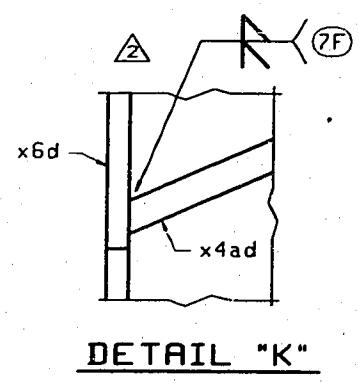
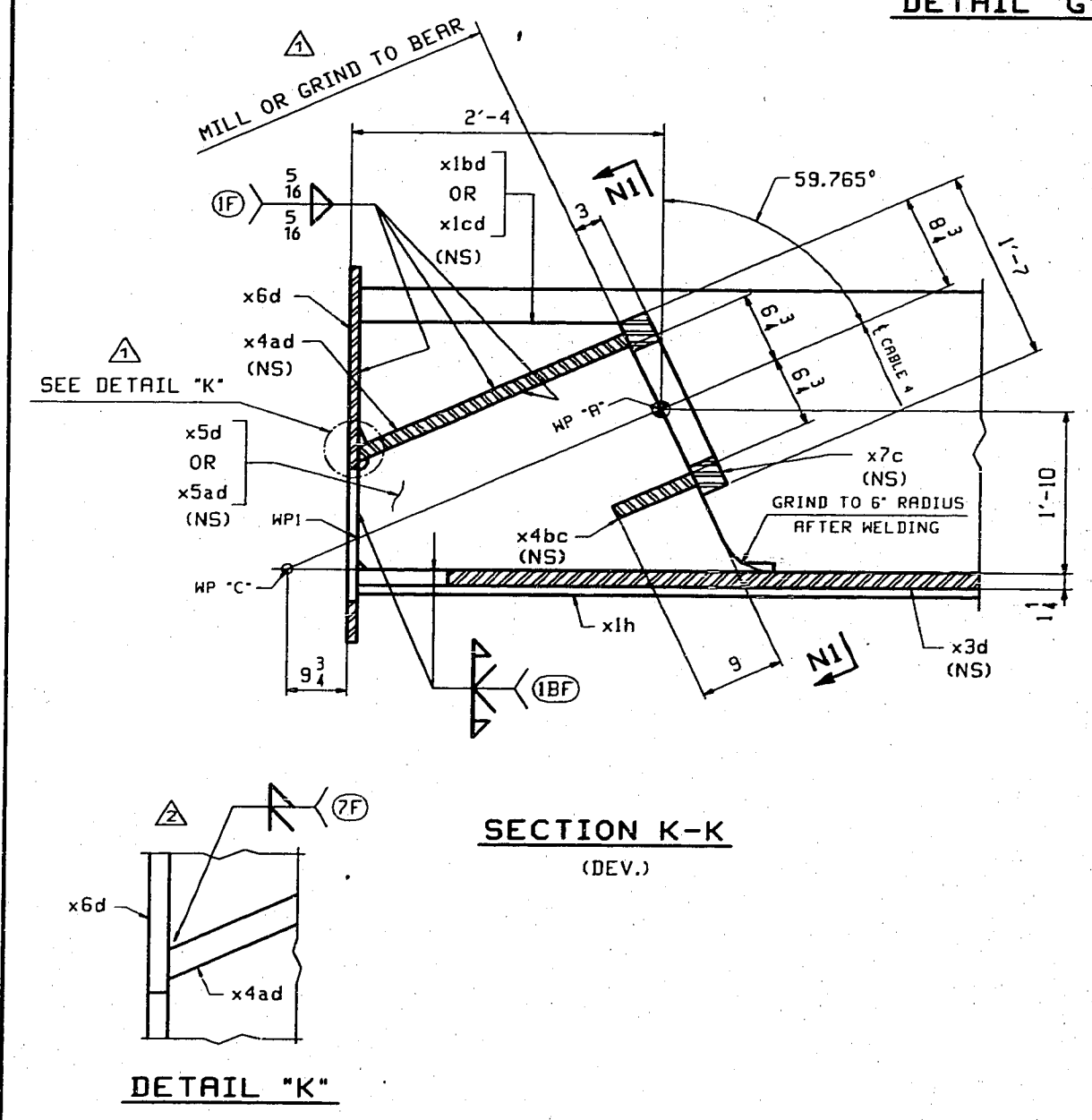
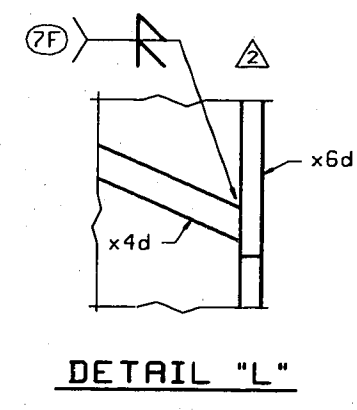
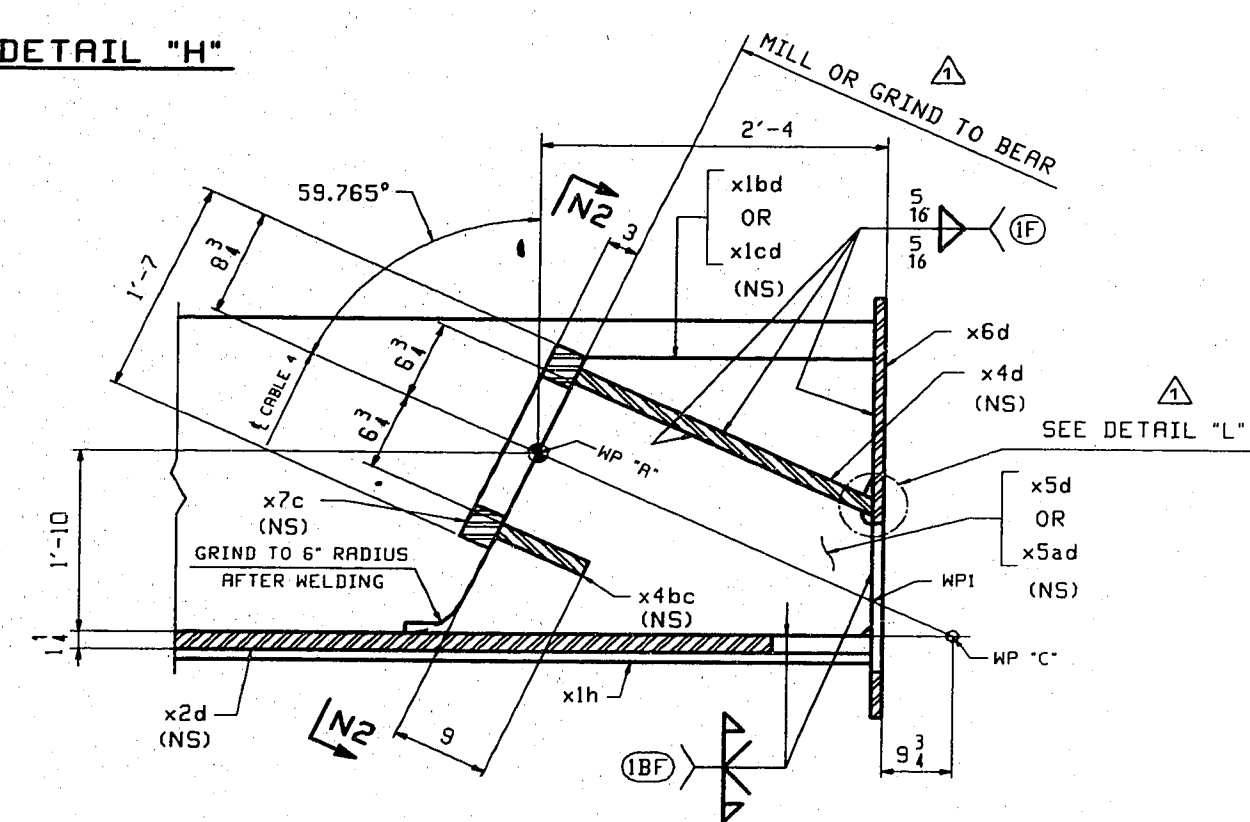
SECTION @ BRG PL

SECTION	⑦	⑧	⑨	⑩
(DEV.) M1-M1	x3d	x4s	x5s	x5as
(DEV.) M2-M2	x2d	x4as	x5as	x5s



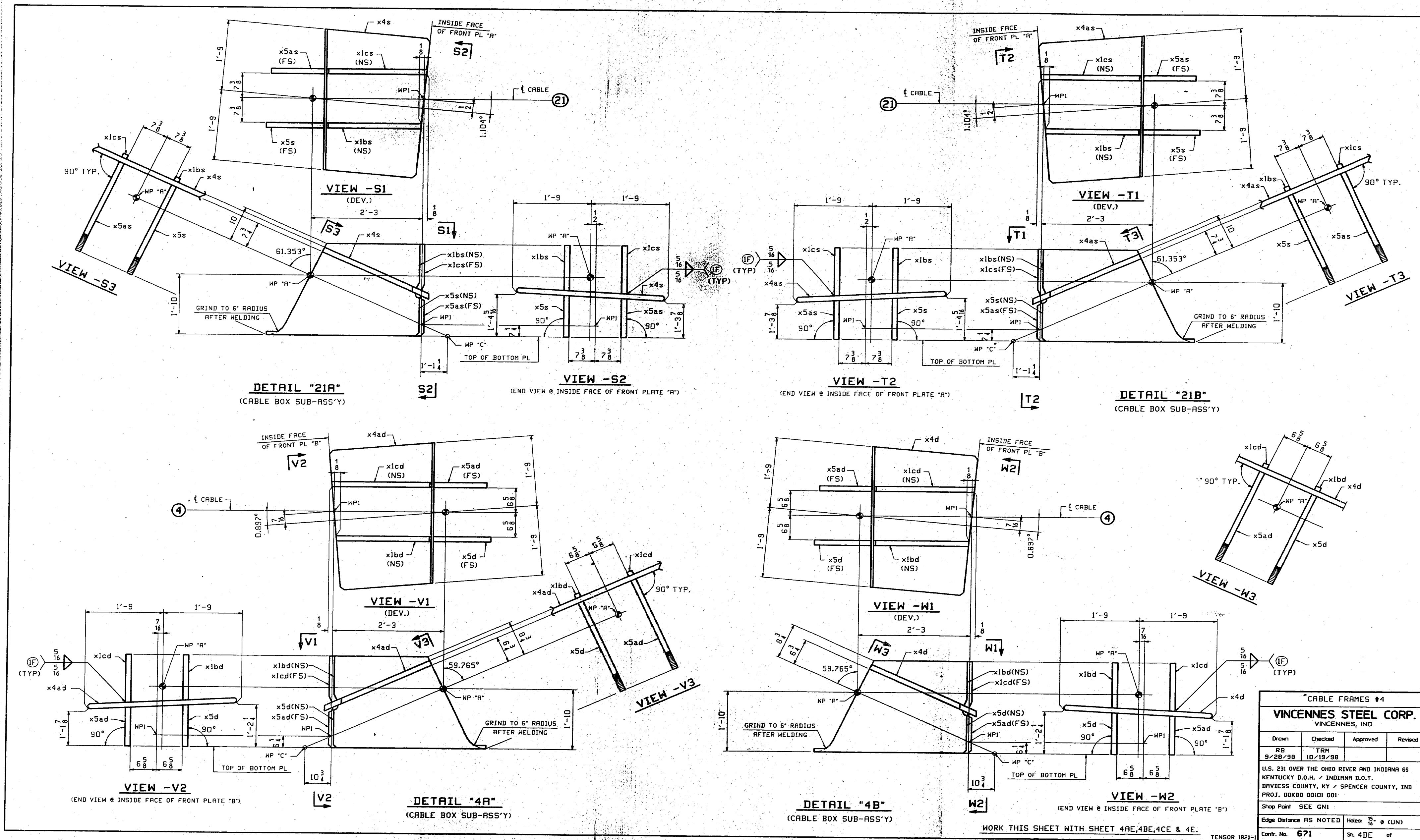
SECTION @ BRG PL

SECTION	⑪	⑫	⑬	⑭
(DEV.) N1-N1	x3d	x4ad	x5ad	x5d
(DEV.) N2-N2	x2d	x4d	x5d	x5ad



WORK THIS SHEET WITH SHEET 4A, 4B, 4D & 4E.

CABLE FRAMES #4			
VINCENNES STEEL CORP.			
VINCENNES, IND.			
Drawn	Checked	Approved	Revised
RB	TRM		RB/TRM
9/28/98	10/19/98		11/19/98
U.S. 231 OVER THE OHIO RIVER AND INDIANA 66			
KENTUCKY D.O.T. / INDIANA D.O.T.			
DAVIESS COUNTY, KY / SPENCER COUNTY, IND			
PROJ. 00K80 0001 001			
Shop Point SEE GNI			
Edge Distance AS NOTED		Holes: 5/16" φ (UN)	
Contr. No. 671		Sh 4CE of	



CABLE FRAMES #4

**VINCENNES STEEL CORP.**  
VINCENNES, IND.

Drawn	Checked	Approved	Revised
RB	TRM		
9/28/98	10/19/98		

U.S. 231 OVER THE OHIO RIVER AND INDIANA 66  
KENTUCKY D.O.M. / INDIANA D.O.T.  
DAVISS COUNTY, KY / SPENCER COUNTY, IND  
PROJ. 00KBD 001G1 001

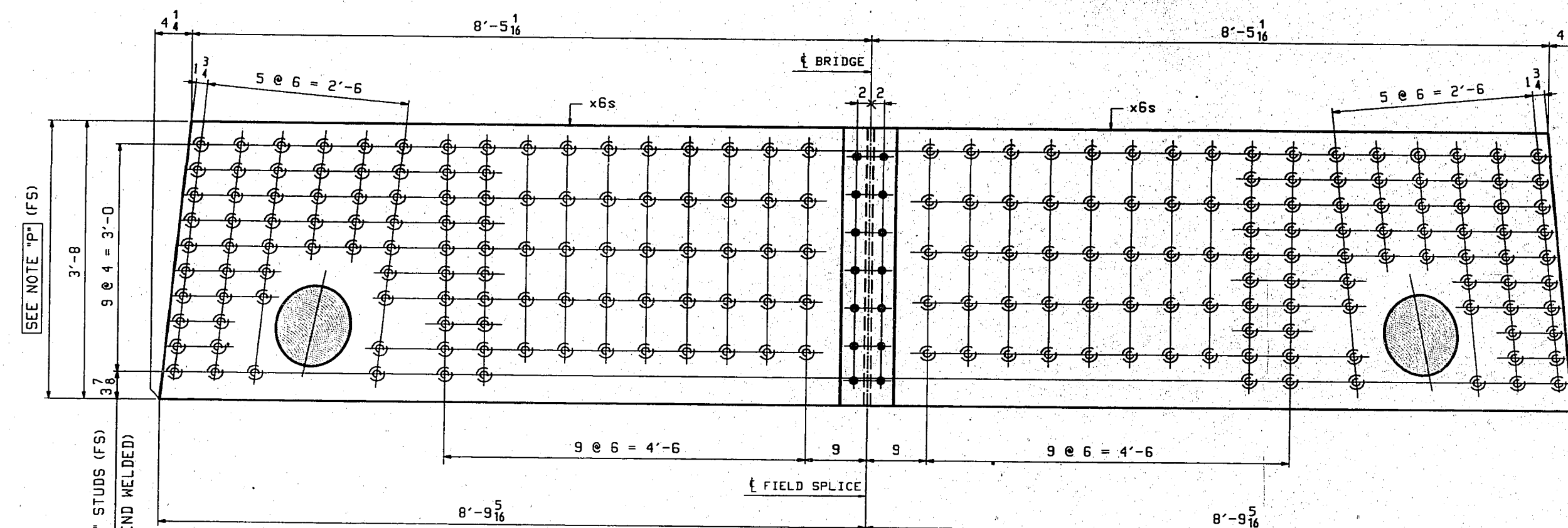
Shop Part: SEE GNI

Edge Distance AS NOTED Holes: 15/16" (LUN)  
Contr. No. 671 Sh. 4DE of

WORK THIS SHEET WITH SHEET 4A, 4B, 4C & 4E.

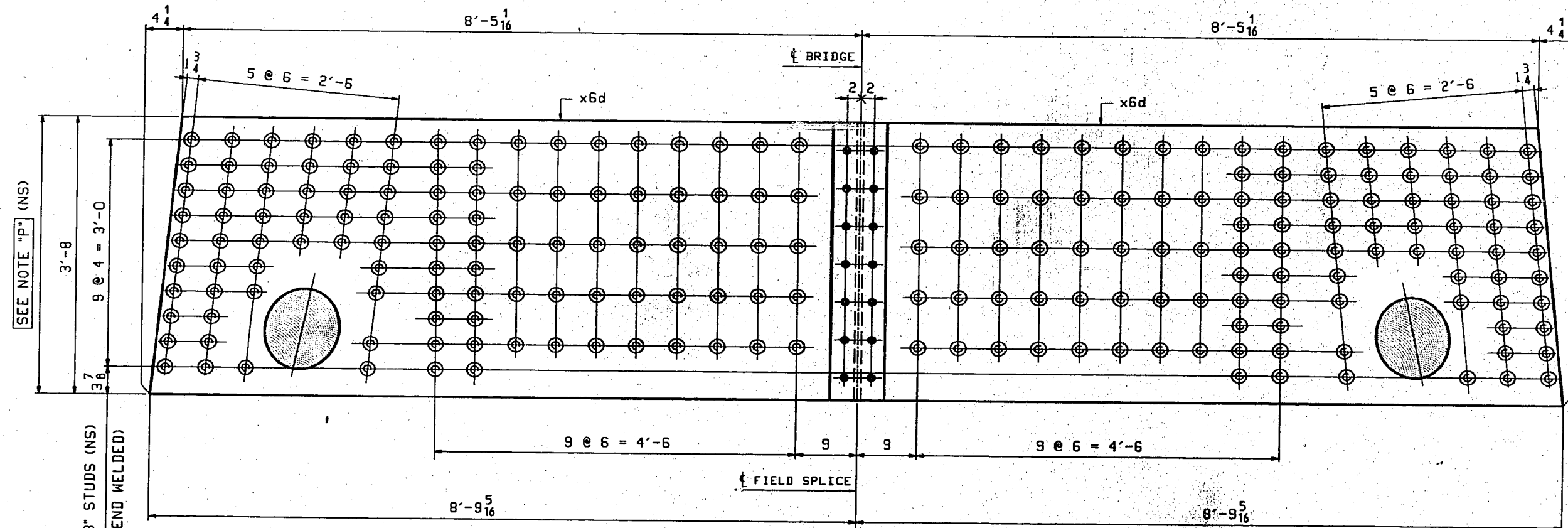
TENSOR 1821-1





**DETAIL "S1"**  
(INSIDE PLATES NOT SHOWN)

**NOTE "P"**  
EMBEDDED AREA IS TO RECEIVE 1.5 MILS OF  
PAINT THICKNESS AS DEFINED ON SHEET GNI.



**DETAIL "S2"**  
(INSIDE PLATES NOT SHOWN)

BILL OF MATERIAL							
LN	KIND	SECTION	LENGTH	REQ.	MARK	GRADE	REMARKS
1	CABLE FRAME			1	B4		ALIKE EXCEPT FOR NO. 1 12136
2	CABLE FRAME			1	B4		ALIKE EXCEPT FOR NO. 1 12136
3	PL	44 x 1	8	8	x1b	M270-50 F2	4/18
4	PL	36 x 1	12'-10	4	x1h	M270-50 F2	4/18
5	PL	14 1/2 x 1	1'-11	2	x1bd	M270-50 F2	4/18
6	PL	13 1/2 x 1	1'-10 1/2	2	x1bs	M270-50 F2	4/18
7	PL	14 1/2 x 1	1'-11 1/2	2	x1cd	M270-50 F2	4/18
8	PL	13 1/2 x 1	1'-10 1/2	2	x1cc	M270-50 F2	4/18
9	PL	42 x 1	12'-10	2	x3d	M270-50 F2	4/18
10	PL	26 1/2 x 1	3'-6 1/2	2	x4s	M270-50 F2	4/18
11	PL	27 1/2 x 1	3'-6 1/2	2	x4ad	M270-50 F2	4/18
12	PL	9 x 1	1'-1	2	x4bc	M270-50 F2	4/18
13	PL	10 x 1	1'-2 1/2	2	x4bh	M270-50 F2	4/18
14	PL	27 1/2 x 1	3'-7 1/2	2	x5d	M270-50 F2	4/18
15	PL	26 1/2 x 1	3'-6 1/2	2	x5s	M270-50 F2	4/18
16	PL	27 1/2 x 1	3'-7 1/2	2	x5ad	M270-50 F2	4/18
17	PL	26 1/2 x 1	3'-6 1/2	2	x5as	M270-50 F2	4/18
18	PL	44 x 1	8'-9 1/2	2	x6d	M270-50 F2	4/18
19	PL	44 x 1	8'-9 1/2	2	x6s	M270-50 F2	4/18
20	PL	15 1/2 x 3	1'-7	2	x7c	M270-50 F2	4/18
21	PL	18 x 3	1'-9 1/2	2	x7k	M270-50 F2	4/18
22	PL	3 1/2 x 2	6	2	x7bb	M270-50	1/18
23							
24	SCREW	3/8"	1 1/2	16	A574	NO NUTS	8/12
25	WASH	3/8"		16	F844	SOCKET HEAD	8/12
26	STUD	3/8"	8	718	A108		8/3
27							
28							
29	CABLE FRAME			1	B4		ALIKE EXCEPT FOR NO. 1 11939
30	CABLE FRAME			1	D4		ALIKE EXCEPT FOR NO. 1 11939
31	PL	36 x 1	12'-10	4	x1h	M270-50 F2	4/18
32	PL	14 1/2 x 1	1'-11	2	x1bd	M270-50 F2	4/18
33	PL	13 1/2 x 1	1'-10 1/2	2	x1bs	M270-50 F2	4/18
34	PL	14 1/2 x 1	1'-11 1/2	2	x1cd	M270-50 F2	4/18
35	PL	13 1/2 x 1	1'-10 1/2	2	x1cs	M270-50 F2	4/18
36	PL	42 x 1	12'-10	2	x2d	M270-50 F2	4/18
37	PL	27 1/2 x 1	3'-6 1/2	2	x4c	M270-50 F2	4/18
38	PL	26 1/2 x 1	3'-6 1/2	2	x4cc	M270-50 F2	4/18
39	PL	9 x 1	1'-1	2	x4bc	M270-50 F2	4/18
40	PL	10 x 1	1'-2 1/2	2	x4bh	M270-50 F2	4/18
41	PL	27 1/2 x 1	3'-7 1/2	2	x5d	M270-50 F2	4/18
42	PL	26 1/2 x 1	3'-6 1/2	2	x5s	M270-50 F2	4/18
43	PL	27 1/2 x 1	3'-7 1/2	2	x5ad	M270-50 F2	4/18
44	PL	26 1/2 x 1	3'-6 1/2	2	x5as	M270-50 F2	4/18
45	PL	44 x 1	8'-9 1/2	2	x6d	M270-50 F2	4/18
46	PL	44 x 1	8'-9 1/2	2	x6s	M270-50 F2	4/18
47	PL	15 1/2 x 3	1'-7	2	x7c	M270-50 F2	4/18
48	PL	18 x 3	1'-9 1/2	2	x7k	M270-50 F2	4/18
49	PL	3 1/2 x 2	6	4	x7bb	M270-50	1/18
50							
51	SCREW	3/8"	1 1/2	16	A574	NO NUTS	8/12
52	WASH	3/8"		16	F844	SOCKET HEAD	8/12
53	STUD	3/8"	8	718	A108		8/3
54							
55							

**CABLE FRAMES #4**  
**VINCENNES STEEL CORP.**  
VINCENNES, IND.

Drawn	Checked	Approved	Revised
RB	TRM		RB/TRM
9/28/98	10/19/98		11/19/98

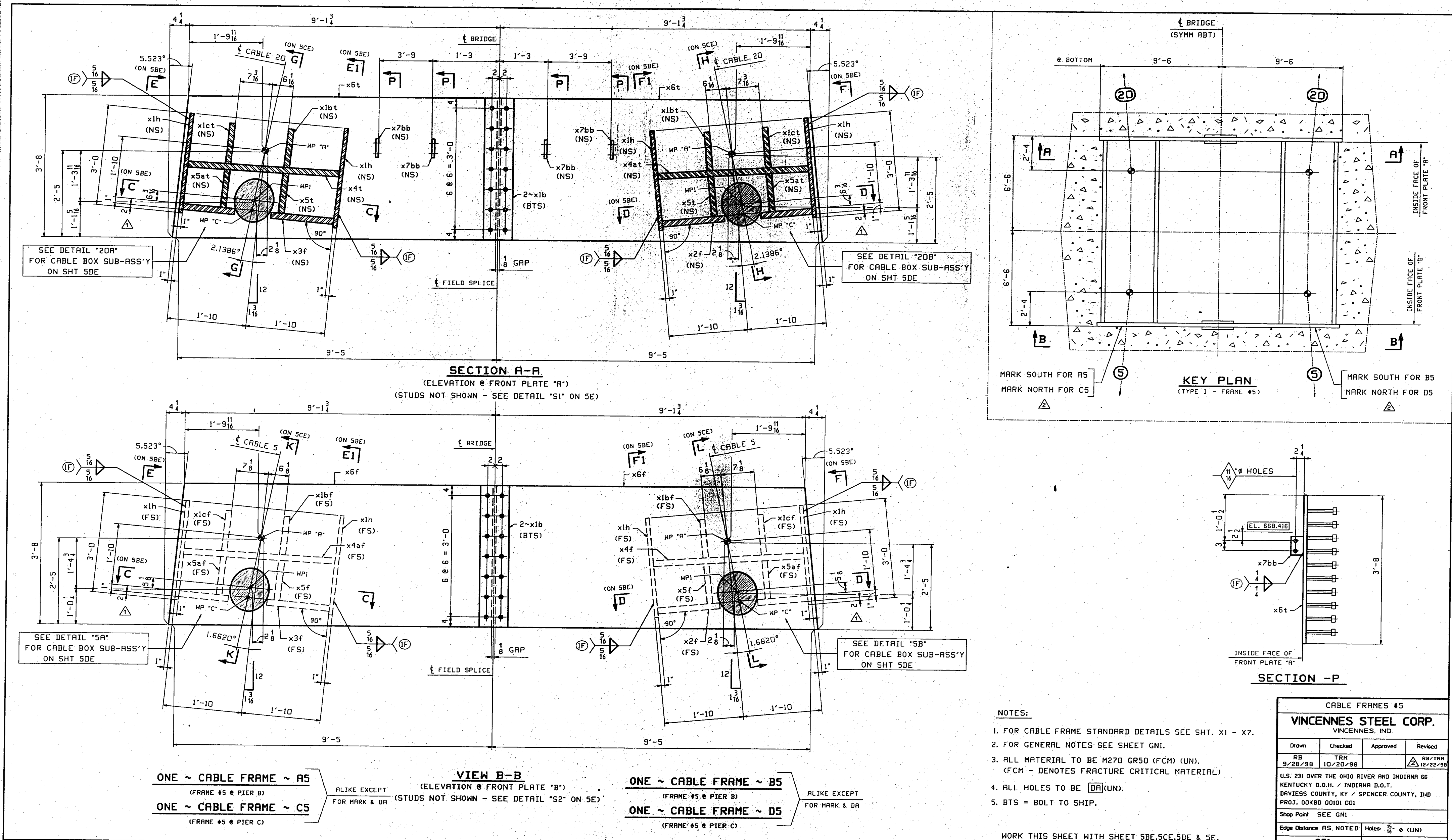
U.S. 231 OVER THE OHIO RIVER AND INDIANA 66  
KENTUCKY D.O.H. / INDIANA D.O.T.  
BAYLISS COUNTY, KY / SPENCER COUNTY, IND  
PROJ. DDDB DDID DDJ

Shop Point SEE GNI

Edge Distance AS NOTED Holes: 15/16" φ (UN)

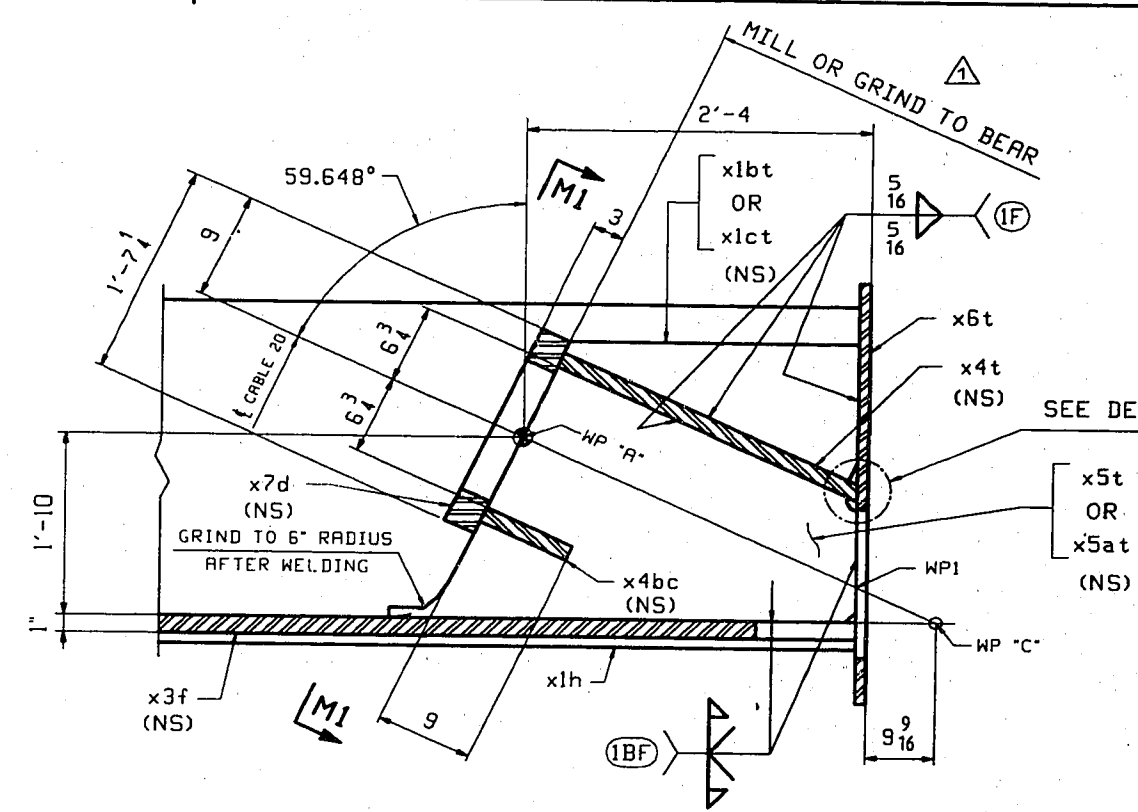
Contr. No. 671 Sh. 4E of

WORK THIS SHEET WITH SHEET 4AE, 4BE, 4CE & 4DE.  
TENSOR 1821-1

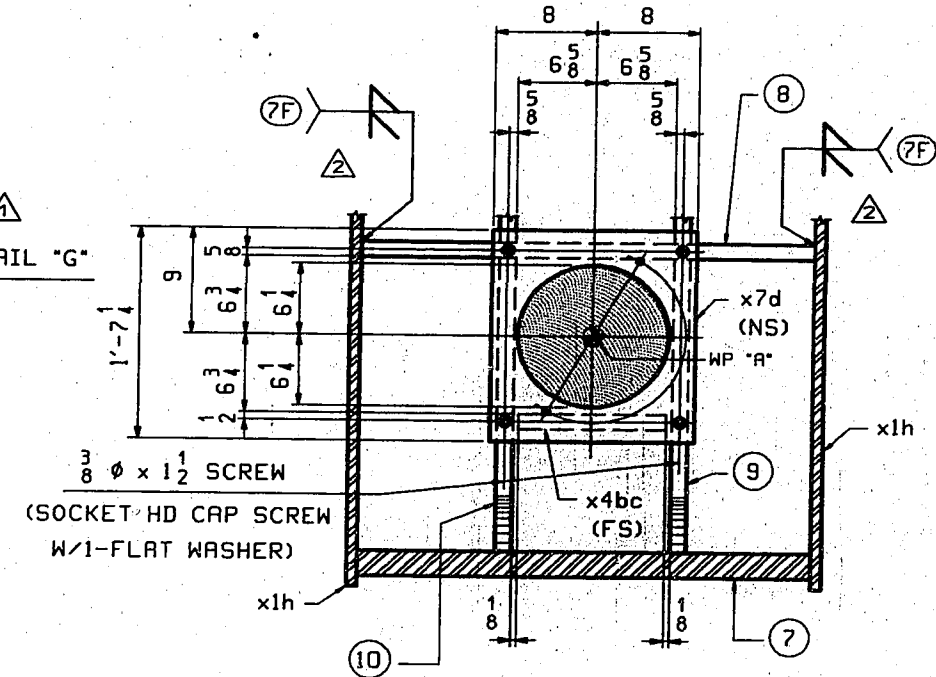
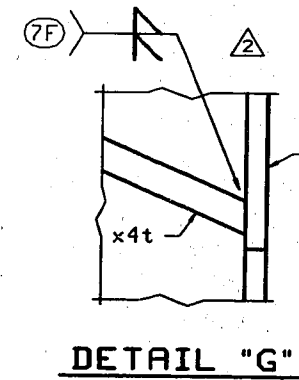






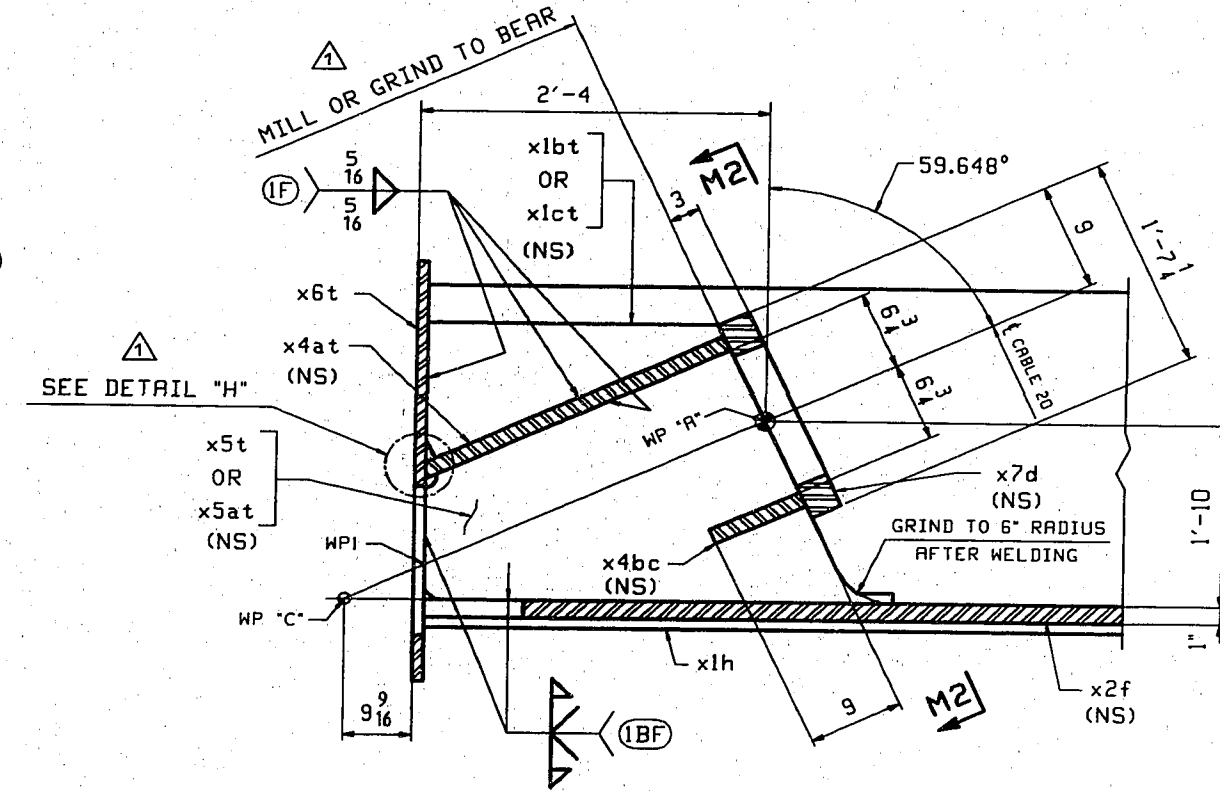


SECTION G-G  
(DEV.)

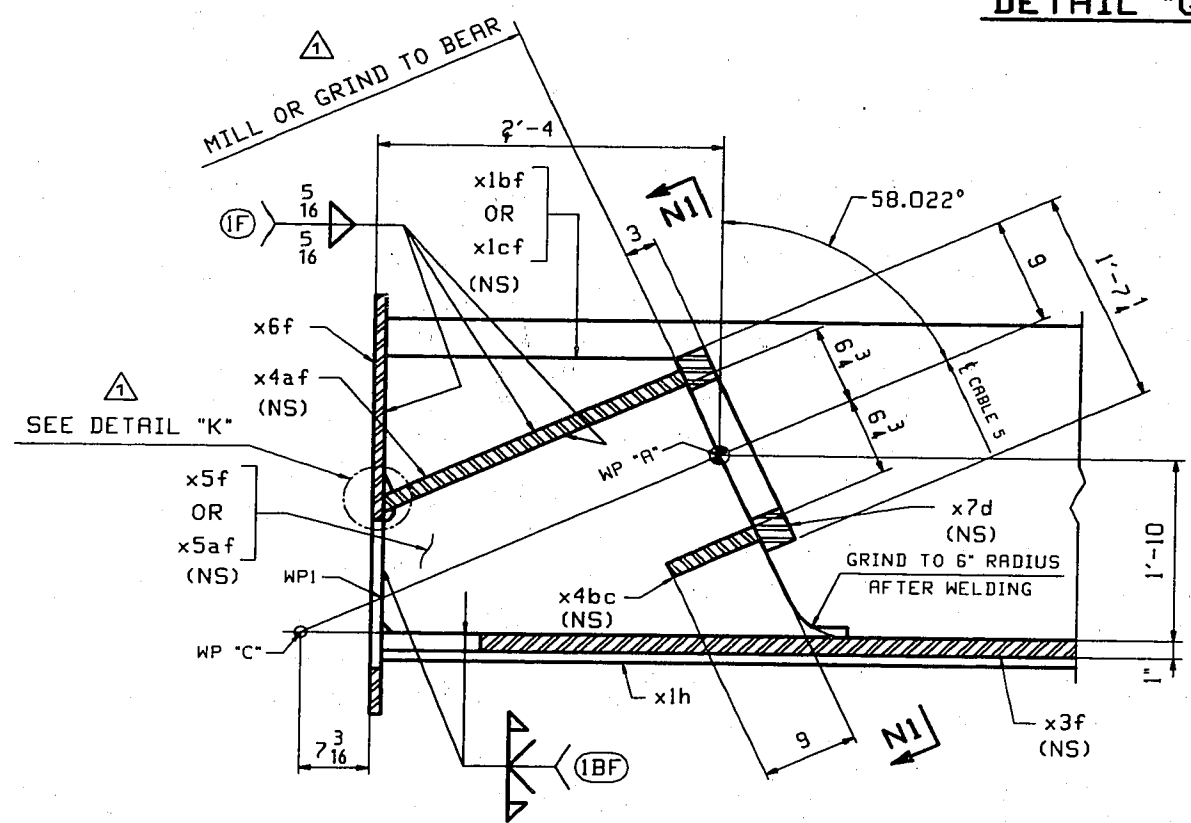
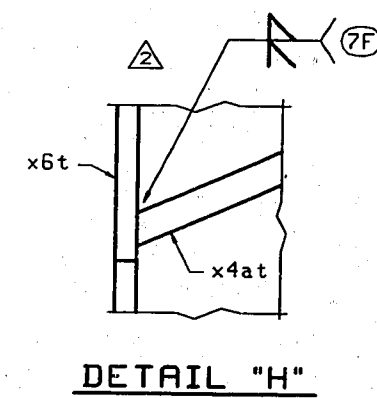


SECTION @ BRG PL

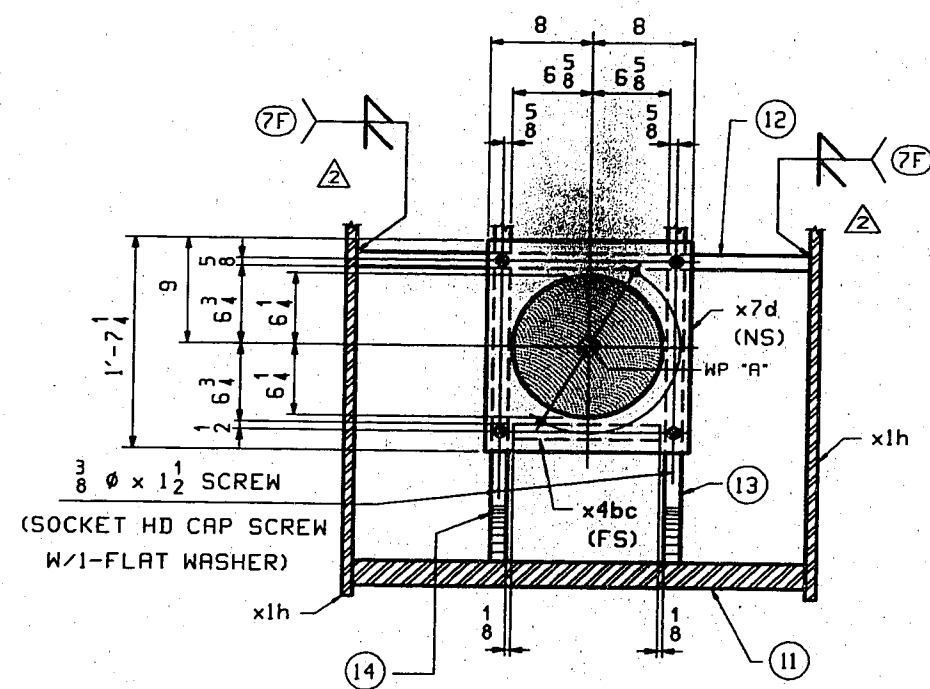
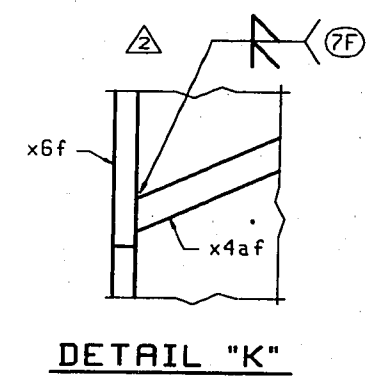
SECTION	⑦	⑧	⑨	⑩
(DEV.) M1-M1	x3f	x4t	x5t	x5at
(DEV.) M2-M2	x2f	x4at	x5at	x5t



SECTION H-H  
(DEV.)

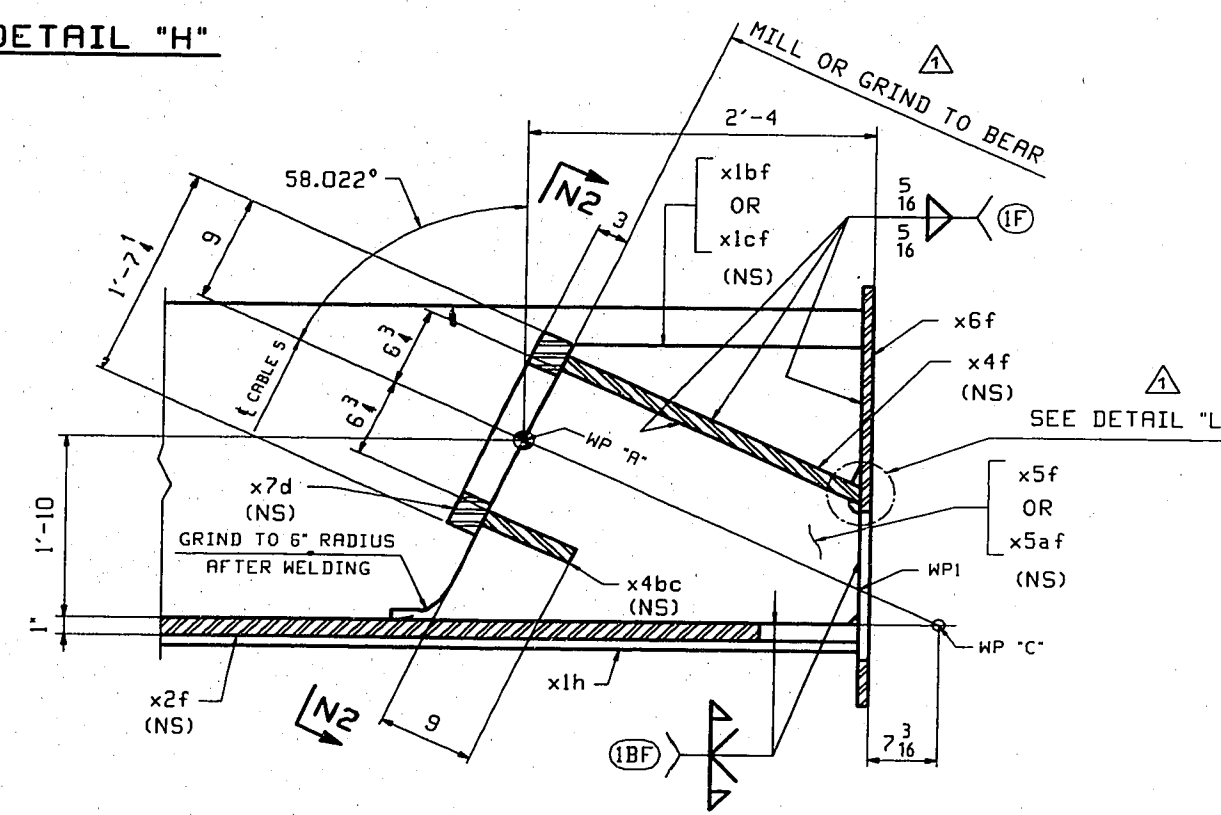


SECTION K-K  
(DEV.)

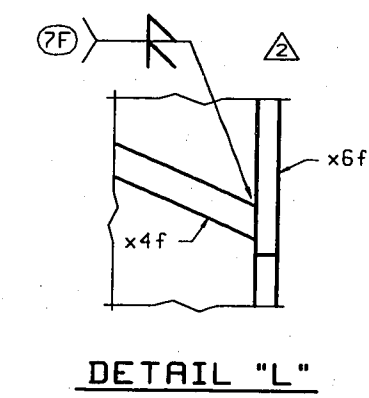


SECTION @ BRG PL

SECTION	⑪	⑫	⑬	⑭
(DEV.) N1-N1	x3f	x4af	x5af	x5f
(DEV.) N2-N2	x2f	x4f	x5f	x5af



SECTION L-L  
(DEV.)

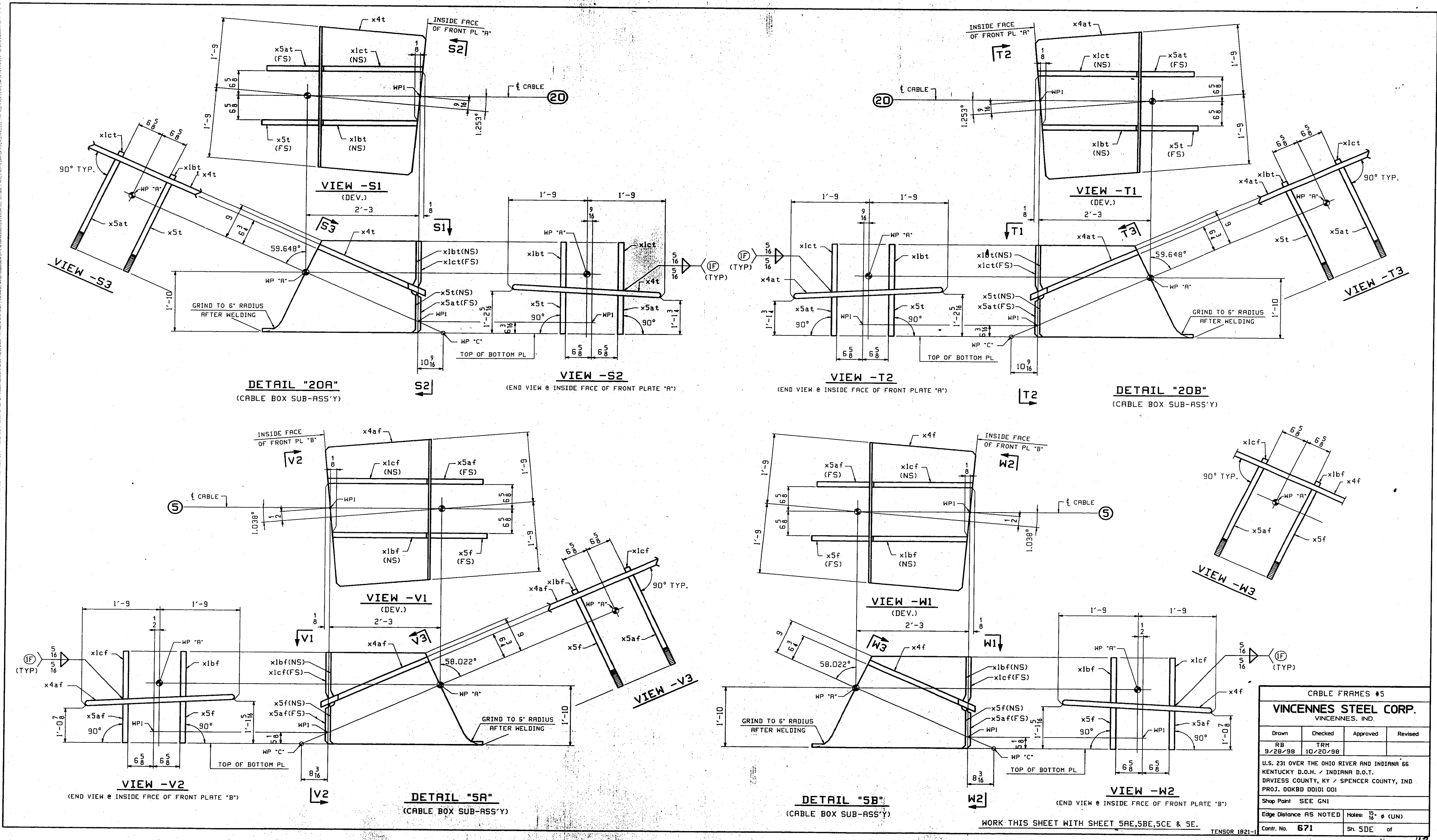


CABLE FRAMES #5			
VINCENNES STEEL CORP.			
VINCENNES, IND.			
Drawn	Checked	Approved	Revised
RB	TRM		
9/28/98	10/20/98		11/19/98
U.S. 231 OVER THE OHIO RIVER AND INDIANA 66			
KENTUCKY D.O.H. / INDIANA D.O.T.			
BRVLESS COUNTY, KY / SPENCER COUNTY, IND			
PROJ. 00KBD 00IGI 00I			
Shop Print SEE GNI			
Edge Distance AS NOTED		Holes 1/8" Ø (UN)	
Contr. No. 671		Sh. 5CE of 42	

WORK THIS SHEET WITH SHEET SRE, SBE, SDE & SE.

TENSOR 1821-1





CABLE FRAMES #5

**VINCENNES STEEL CORP.**  
VINCENNES, IND.

Drawn	Checked	Approved	Revised
RB	TRM		
9/28/98	10/20/98		

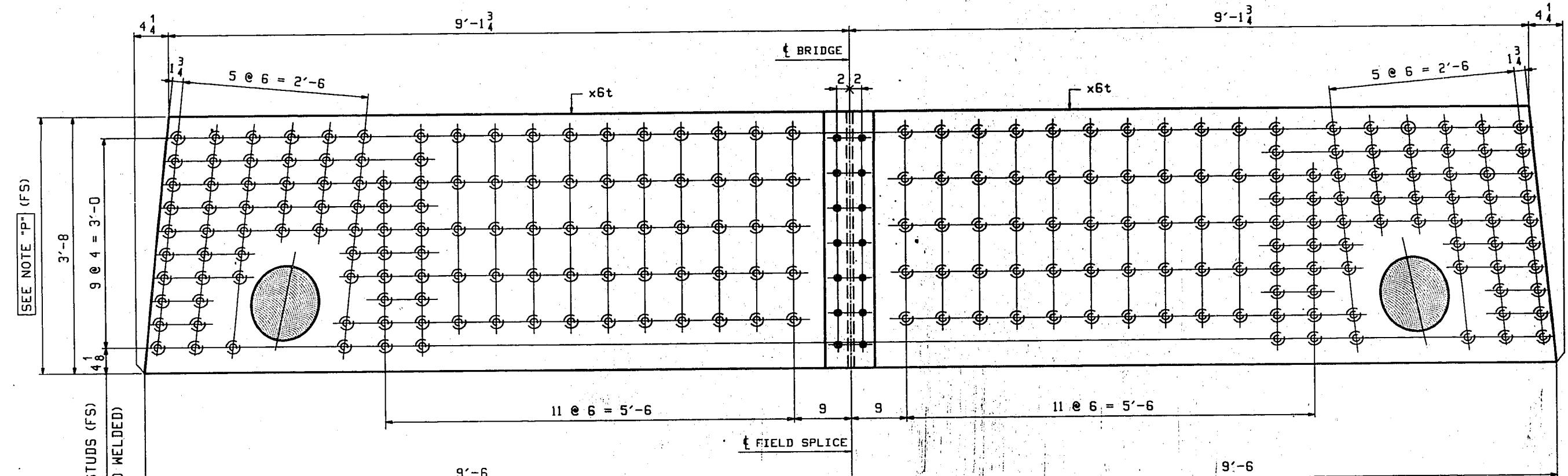
U.S. 231 OVER THE OHIO RIVER AND INDIANA 66  
KENTUCKY D.O.M. / INDIANA D.O.T.  
DAVIESS COUNTY, KY / SPENCER COUNTY, IND  
PROJ. 00KBD 0001 001

Shop Print SEE GNI

Edge Distance AS NOTED Holes: 15/16" Ø (UN)

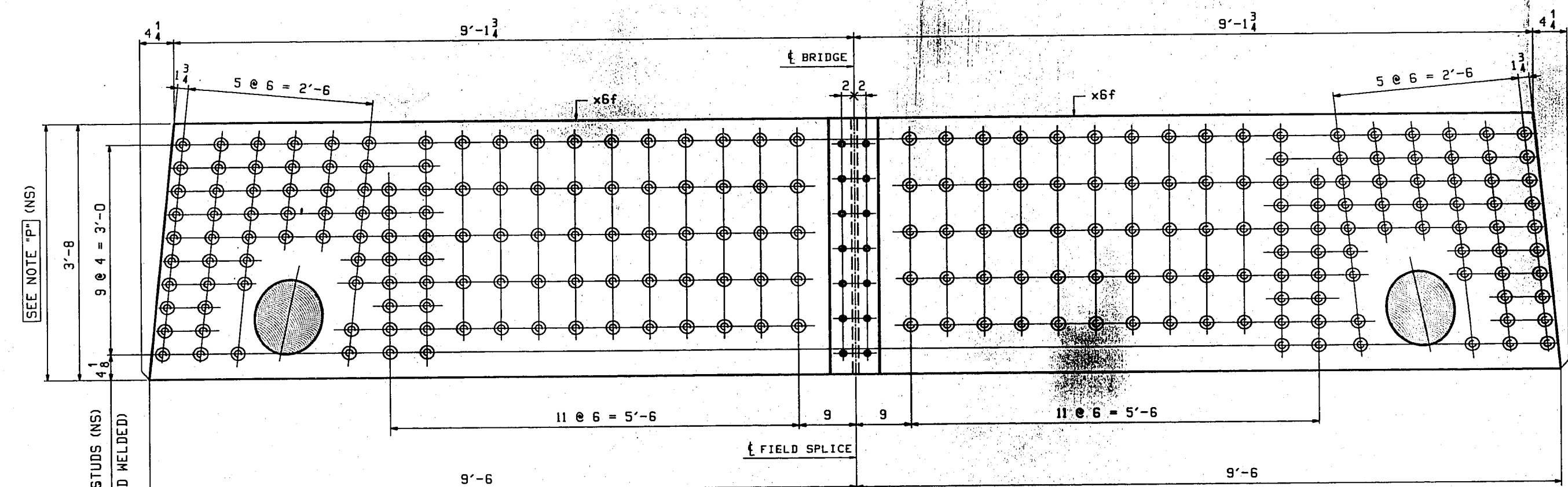
Contr. No. **671** Sh. 5DE of 43

WORK THIS SHEET WITH SHEET 59A, 59B, 59C & 5E. TENSOR 1821-



**DETAIL "S1"**  
(INSIDE PLATES NOT SHOWN)

**NOTE "P"**  
EMBEDDED AREA IS TO RECEIVE 1.5 MILS OF  
PAINT THICKNESS AS DEFINED ON SHEET GNI.



**DETAIL "S2"**  
(INSIDE PLATES NOT SHOWN)

BILL OF MATERIAL							
LN	KIND	SECTION	LENGTH	REQ.	MARK	GRADE	REMARKS
1	CABLE FRAME			1	AS		ALIKE EXCEPT FOR NO. 1 DS 12208
2	CABLE FRAME			1	CS		12208
3	PL	44 x 1/2	8	8	x1b	M270-50 F2	5/5
4	PL	36 x 1	12'-10	4	x1h	M270-50 F2	5/4
5	PL	15 x 1 1/2	1'-10 3/8	2	x1bf	M270-50 F2	5/11
6	PL	14 1/2 x 1 1/2	1'-10 3/8	2	x1bt	M270-50 F2	5/11
7	PL	15 1/2 x 1 1/2	1'-10 3/8	2	x1cf	M270-50 F2	5/11
8	PL	14 1/2 x 1 1/2	1'-11 1/8	2	x1ct	M270-50 F2	5/11
9	PL	42 x 1	12'-10	2	x3f	M270-50 F2	5/3
10	PL	27 1/2 x 1 1/2	3'-6 1/2	2	x4t	M270-50 F2	5/3
11	PL	28 x 1 1/2	3'-6 1/2	2	x4ef	M270-50 F2	5/3
12	PL	9 x 1	1'-1	4	x4bc	M270-50 F2	5/3
13	PL	27 1/2 x 1 1/2	3'-7 1/2	2	x5f	M270-50 F2	5/10
14	PL	28 x 1 1/2	3'-7 1/2	2	x5t	M270-50 F2	5/10
15	PL	27 1/2 x 1 1/2	3'-8 1/2	2	x5af	M270-50 F2	5/10
16	PL	27 1/2 x 1 1/2	3'-7 1/2	2	x5at	M270-50 F2	5/10
17	PL	44 x 1	9'-5 1/2	2	x6f	M270-50 F2	5/3
18	PL	44 x 1	9'-5 1/2	2	x6t	M270-50 F2	5/3
19	PL	16 x 3	1'-7 1/2	4	x7d	M270-50 F2	5/2
20	PL	3 1/2 x 2	6	4	x7bb	M270-50	1/13
21							
22	CRP SCREW	3/8 #	12	16	AS74		NO NUTS SOCKET HEAD 5/12
23	WASH	3/8 #		16	F844		5/13
24	STUD	3/8 #	8	750	R108		5/3
25							
26							
27	CABLE FRAME			1	BS		ALIKE EXCEPT FOR NO. 1 DS 12008
28	CABLE FRAME			1	DS		12008
29	PL	36 x 1	12'-10	4	x1h	M270-50 F2	5/4
30	PL	15 x 1 1/2	1'-10 3/8	2	x1bf	M270-50 F2	5/11
31	PL	14 1/2 x 1 1/2	1'-10 3/8	2	x1bt	M270-50 F2	5/11
32	PL	15 1/2 x 1 1/2	1'-10 3/8	2	x1cf	M270-50 F2	5/11
33	PL	14 1/2 x 1 1/2	1'-11 1/8	2	x1ct	M270-50 F2	5/11
34	PL	42 x 1	12'-10	2	x2f	M270-50 F2	5/3
35	PL	28 x 1 1/2	3'-6 1/2	2	x4f	M270-50 F2	5/3
36	PL	27 1/2 x 1 1/2	3'-6 1/2	2	x4t	M270-50 F2	5/3
37	PL	9 x 1	1'-1	4	x4bc	M270-50 F2	5/3
38	PL	27 1/2 x 1 1/2	3'-7 1/2	2	x5f	M270-50 F2	5/10
39	PL	28 x 1 1/2	3'-7 1/2	2	x5t	M270-50 F2	5/10
40	PL	27 1/2 x 1 1/2	3'-8 1/2	2	x5af	M270-50 F2	5/10
41	PL	27 1/2 x 1 1/2	3'-7 1/2	2	x5at	M270-50 F2	5/10
42	PL	44 x 1	9'-5 1/2	2	x6f	M270-50 F2	5/3
43	PL	44 x 1	9'-5 1/2	2	x6t	M270-50 F2	5/3
44	PL	16 x 3	1'-7 1/2	4	x7d	M270-50 F2	5/2
45	PL	3 1/2 x 2	6	4	x7bb	M270-50	1/13
46							
47	CRP SCREW	3/8 #	12	16	AS74		NO NUTS SOCKET HEAD 5/12
48	WASH	3/8 #		16	F844		5/13
49	STUD	3/8 #	8	750	R108		5/3
50							
51							
52							
53							
54							
55							

CABLE FRAMES #5  
**VINCENNES STEEL CORP.**  
 VINCENNES, IND.

Drawn	Checked	Approved	Revised
RB 9/28/98	TRM 10/20/98		RB/TRM 11/18/98

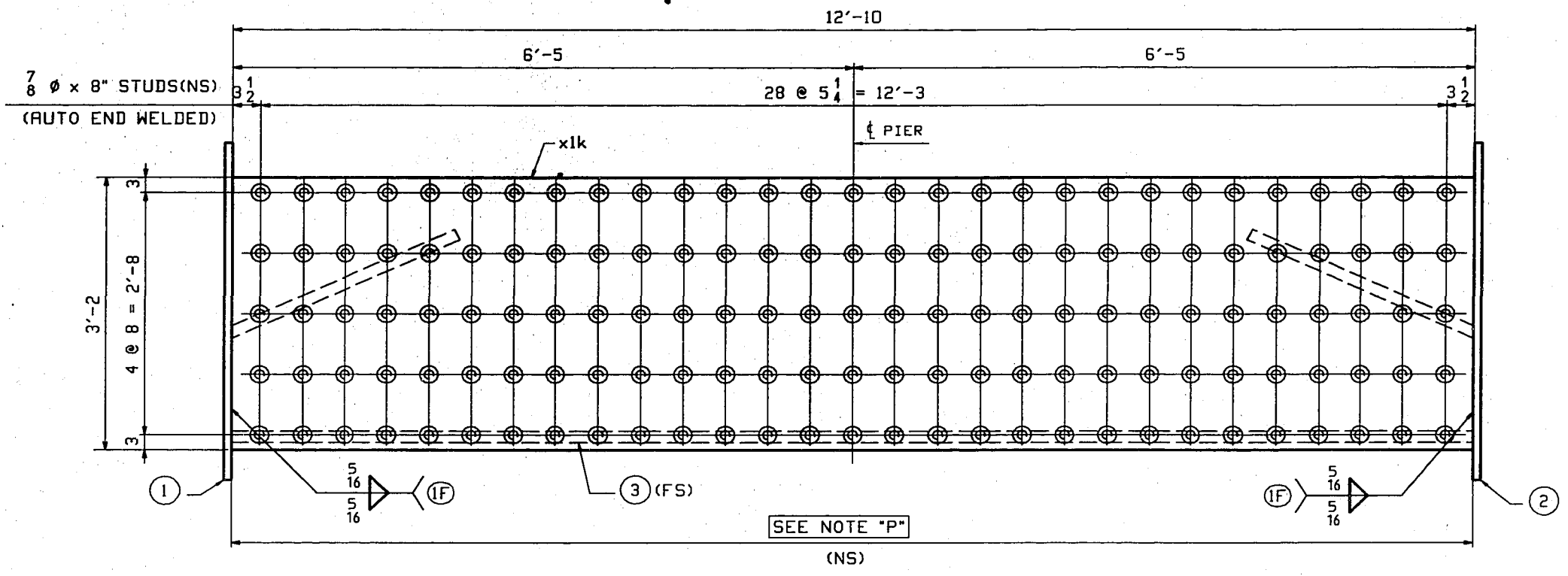
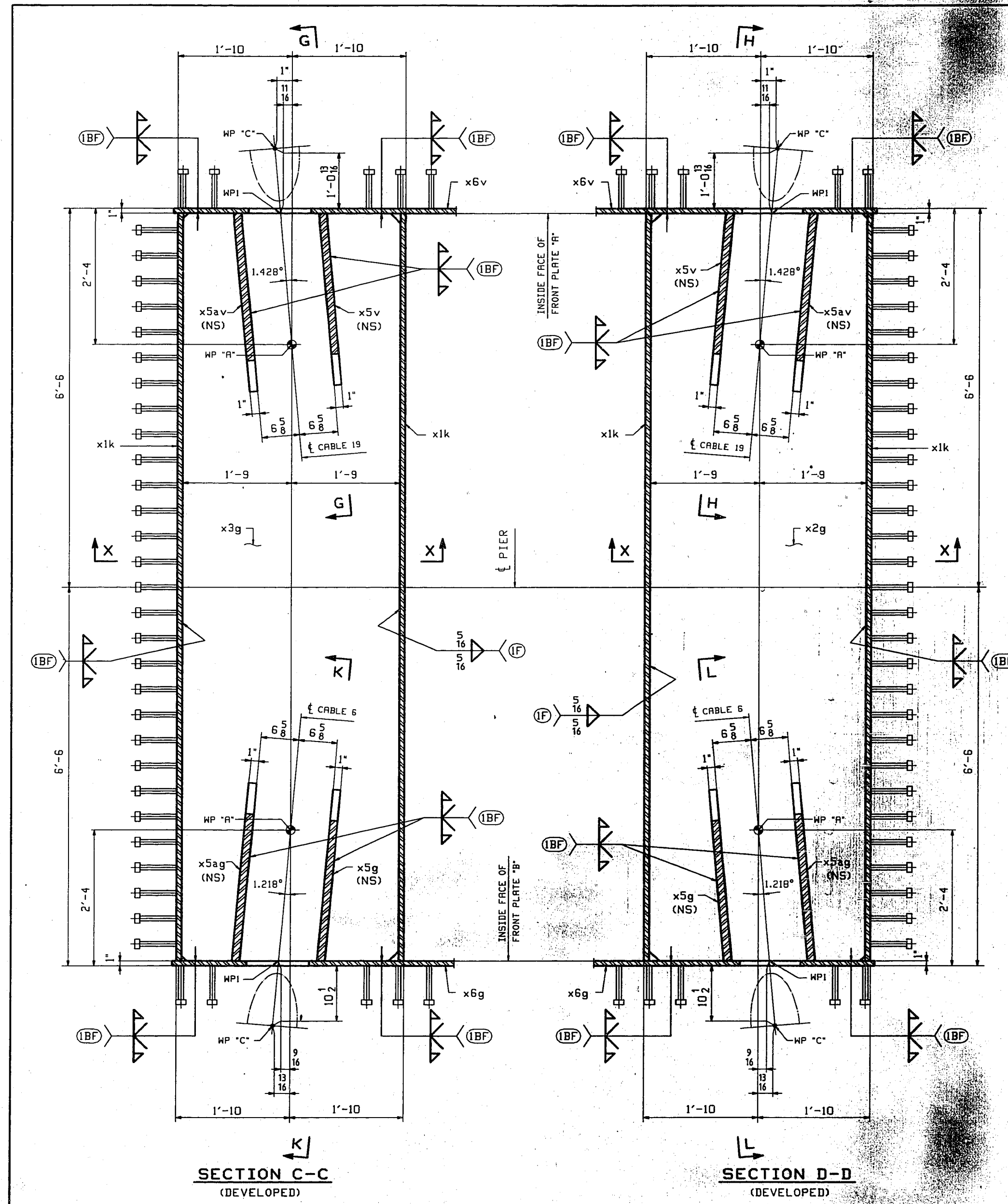
U.S. 231 OVER THE OHIO RIVER AND INDIANA 66  
 KENTUCKY D.O.H. / INDIANA D.O.T.  
 DAVIESS COUNTY, KY / SPENCER COUNTY, IND  
 PROJ. 00K50 0001 001

Shop Point SEE GNI  
 Edge Distance AS NOTED Holes: 1/8" # (LUN)  
 Contr. No. 671 Sh. 5E of 44

WORK THIS SHEET WITH SHEET 5AE, 5BE, 5CE & 5DE. TENSOR 1821-1



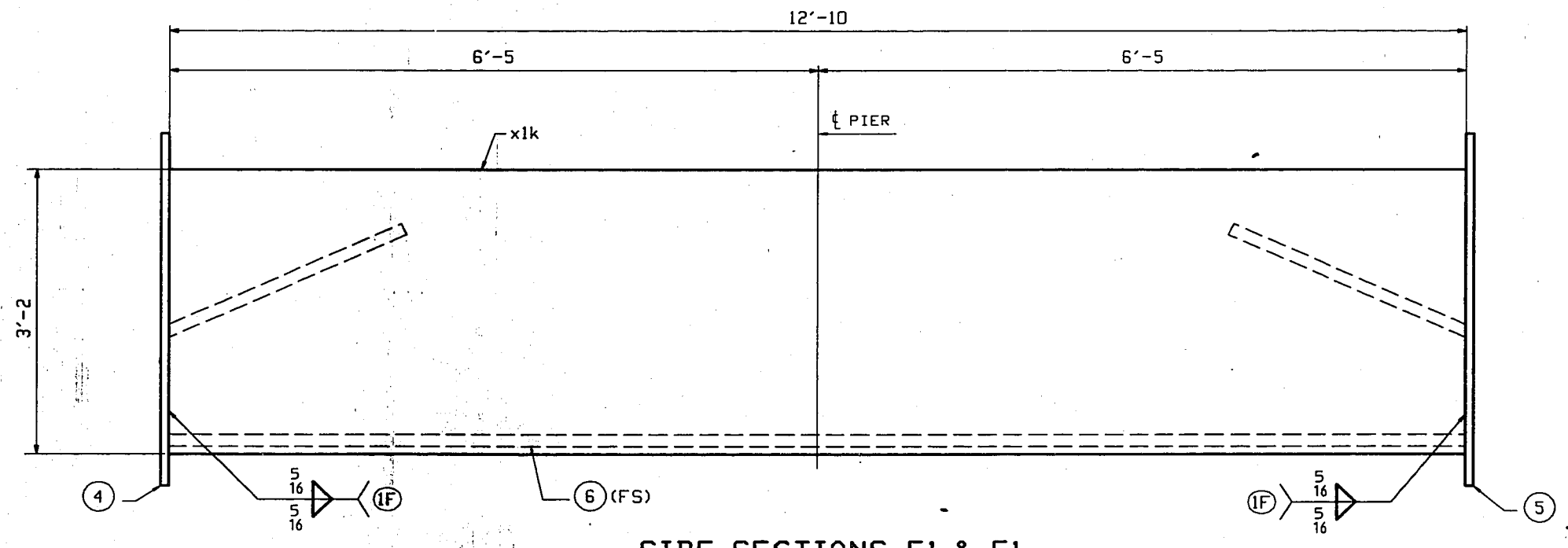




NOTE "P"  
EMBEDDED AREA IS TO RECEIVE 1.5 MILS OF  
PAINT THICKNESS AS DEFINED ON SHEET GNI.

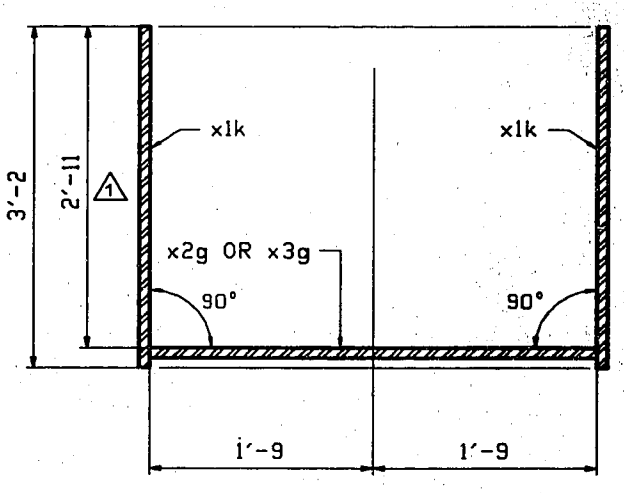
SIDE VIEWS E & F

VIEW	①	②	③
E	x6v	x6g	x3g
F	x6g	x6v	x2g



SIDE SECTIONS E1 & F1

SECTION	④	⑤	⑥
E1	x6g	x6v	x3g
F1	x6v	x6g	x2g



WORK THIS SHEET WITH SHEET 6A, 6C, 6E & 6E.

CABLE FRAMES #6

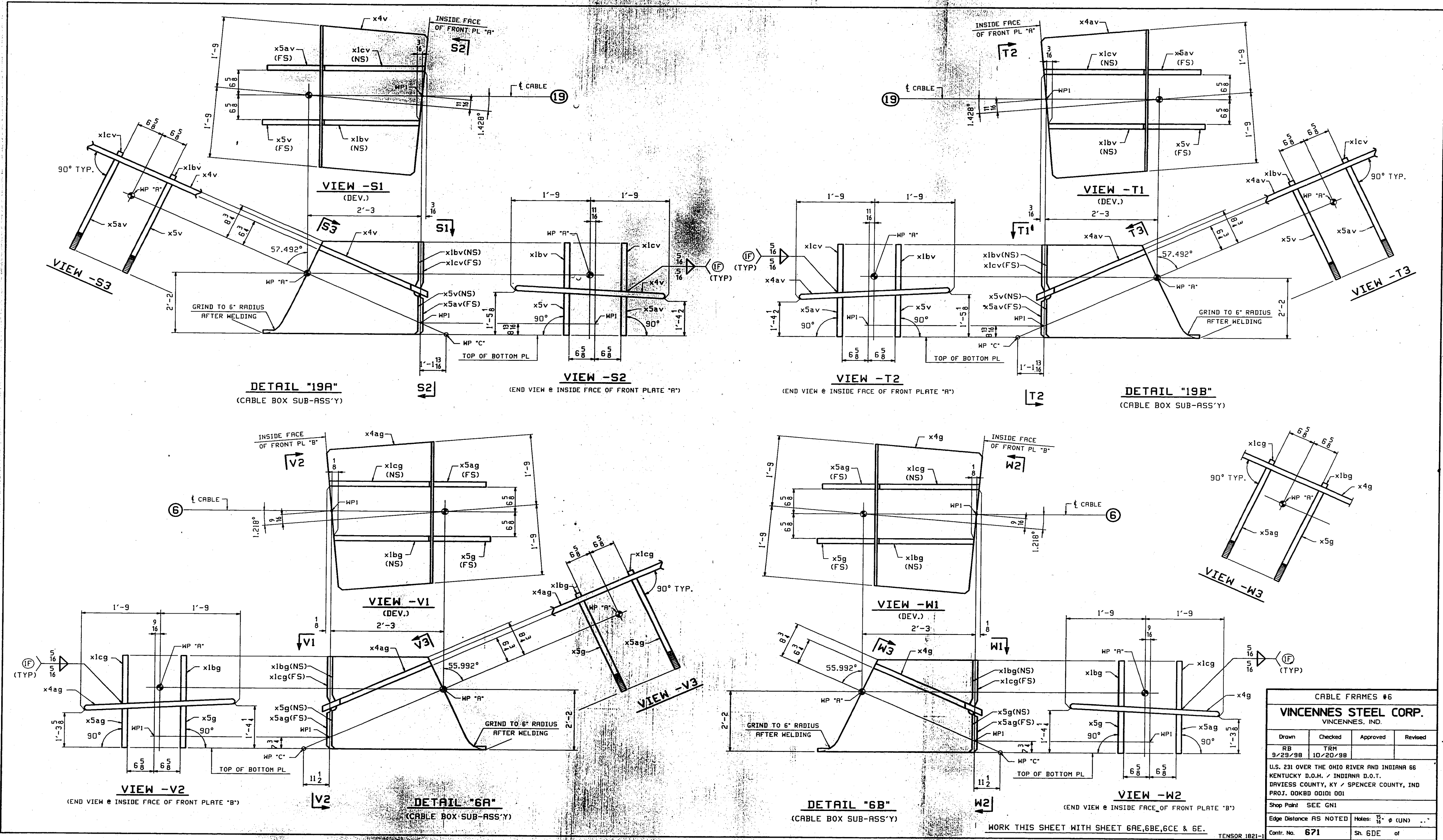
VINCENNES STEEL CORP.  
VINCENNES, IND.

Drawn	Checked	Approved	Revised
RB	TR		RB/TR
9/29/28	10/20/28		11/10/28

U.S. 231 OVER THE OHIO RIVER AND INDIANA 66  
KENTUCKY D.O.M. / INDIANA D.O.I.  
DAVISS COUNTY, KY / SPENCER COUNTY, IND  
PROJ. 00K8D 00101 001  
Shop Paint SEE GNI  
Edge Distance AS NOTED Holes 15/16" (LUN)  
Contr. No. 671 Sh. 6BE of 46







CABLE FRAMES #6

**VINCENNES STEEL CORP.**  
VINCENNES, IND.

Drawn	Checked	Approved	Revised
RB	TRH		
9/28/98	10/20/98		

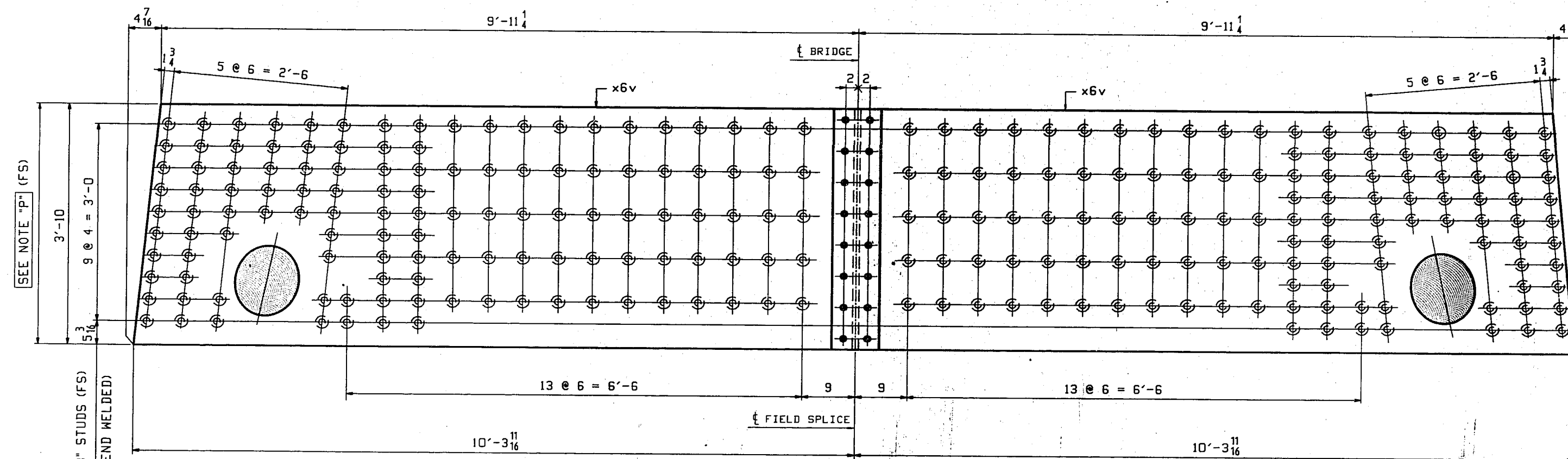
U.S. 231 OVER THE OHIO RIVER AND INDIANA 66  
KENTUCKY D.O.H. / INDIANA D.O.I.  
DARVLESS COUNTY, KY / SPENCER COUNTY, IND  
PROJ. 00KBD 00101 001

Shop Point SEE GNI

Edge Distance AS NOTED Holes: 15/16" φ (UN) ...

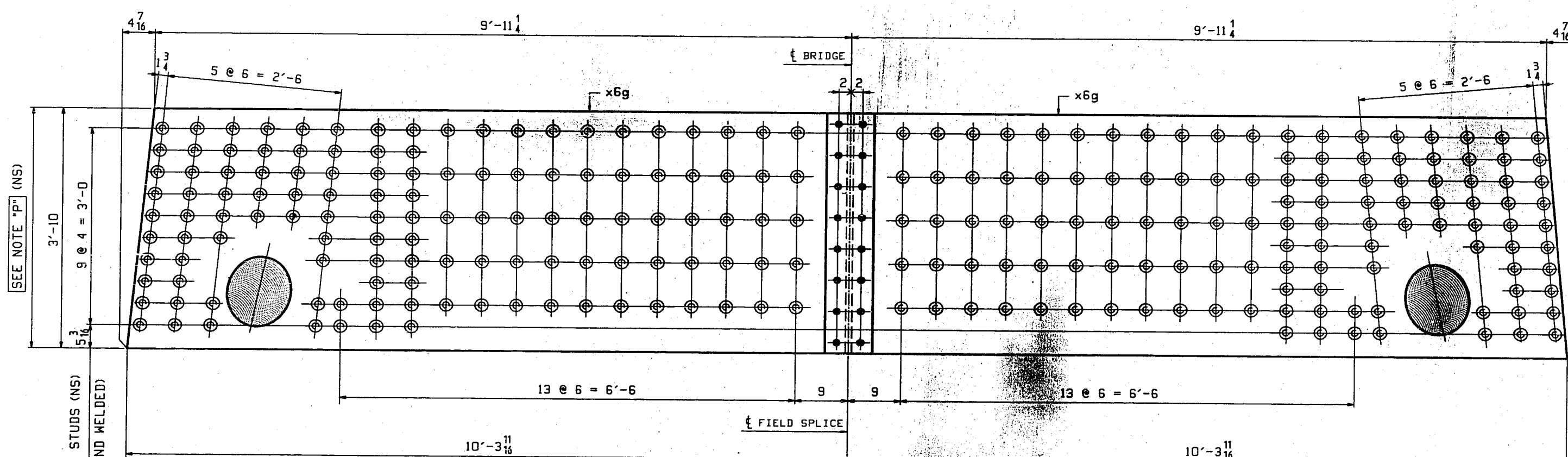
Contr. No. 671 Sh. 6DE of





**DETAIL "S1"**  
(INSIDE PLATES NOT SHOWN)

**NOTE "P"**  
EMBEDDED AREA IS TO RECEIVE 1.5 MILS OF  
PAINT THICKNESS AS DEFINED ON SHEET GNI.



**DETAIL "S2"**  
(INSIDE PLATES NOT SHOWN)

BILL OF MATERIAL							
LN	KIND	SECTION	LENGTH	REQ.	MARK	GRADE	REMARKS
1	CABLE FRAME			1	BE		PLATE EXCEPT FOR NO. 8 OR 12532
2	CABLE FRAME			1	CE		12532
3	PL	46 x 1/2	8	8	x1c	M270-50 F2	5/19
4	PL	38 x 1	12'-10"	4	x1k	M270-50 F2	5/17
5	PL	16 x 1	1'-10 1/2"	2	x1bg	M270-50 F2	5/24
6	PL	15 1/2 x 1	1'-10 1/8"	2	x1bv	M270-50 F2	5/24
7	PL	16 1/2 x 1	1'-10 1/8"	2	x1cg	M270-50 F2	5/24
8	PL	15 1/2 x 1	1'-11"	2	x1cv	M270-50 F2	5/24
9	PL	42 x 1	12'-10"	2	x2g	M270-50 F2	5/24
10	PL	28 1/2 x 1	3'-6 1/2"	2	x4v	M270-50 F2	5/22
11	PL	28 1/2 x 1	3'-6 1/2"	2	x4g	M270-50 F2	5/22
12	PL	9 x 1	1'-1"	4	x4bc	M270-50 F2	5/21
13	PL	31 1/2 x 1	3'-11 1/2"	2	x5g	M270-50 F2	5/23
14	PL	31 1/2 x 1	3'-10 1/2"	2	x5v	M270-50 F2	5/23
15	PL	31 1/2 x 1	3'-11 1/2"	2	x5ag	M270-50 F2	5/23
16	PL	31 1/2 x 1	3'-11 1/2"	2	x5av	M270-50 F2	5/23
17	PL	46 x 1	10'-3 11/16"	2	x6g	M270-50 F2	5/18
18	PL	46 x 1	10'-3 11/16"	2	x6v	M270-50 F2	5/18
19	PL	15 1/2 x 3	1'-7"	4	x7c	M270-50 F2	5/20
20	PL	3 1/2 x 1/2	6	6	x7bb	M270-50	1/19
21							
22	CRP SCREW	3/8"	1 1/2	16	A574		NO NUTS SOCKET HEAD 5/12
23	WASH	3/8"	8	16	F844		5/15
24	STUD	7/8"	8	786	A108		5/3
25							
26							
27	CABLE FRAME			1	BE		PLATE EXCEPT FOR NO. 8 OR 12323
28	CABLE FRAME			1	DE		12323
29	PL	38 x 1	12'-10"	4	x1k	M270-50 F2	5/17
30	PL	16 x 1	1'-10 1/2"	2	x1bg	M270-50 F2	5/24
31	PL	15 1/2 x 1	1'-10 1/8"	2	x1bv	M270-50 F2	5/24
32	PL	16 1/2 x 1	1'-10 1/8"	2	x1cg	M270-50 F2	5/24
33	PL	15 1/2 x 1	1'-11"	2	x1cv	M270-50 F2	5/24
34	PL	42 x 1	12'-10"	2	x2g	M270-50 F2	5/24
35	PL	28 1/2 x 1	3'-6 1/2"	2	x4v	M270-50 F2	5/22
36	PL	28 1/2 x 1	3'-6 1/2"	2	x4g	M270-50 F2	5/22
37	PL	9 x 1	1'-1"	4	x4bc	M270-50 F2	5/21
38	PL	31 1/2 x 1	3'-11 1/2"	2	x5g	M270-50 F2	5/23
39	PL	31 1/2 x 1	3'-10 1/2"	2	x5v	M270-50 F2	5/23
40	PL	31 1/2 x 1	3'-11 1/2"	2	x5ag	M270-50 F2	5/23
41	PL	31 1/2 x 1	3'-11 1/2"	2	x5av	M270-50 F2	5/23
42	PL	46 x 1	10'-3 11/16"	2	x6g	M270-50 F2	5/18
43	PL	46 x 1	10'-3 11/16"	2	x6v	M270-50 F2	5/18
44	PL	15 1/2 x 3	1'-7"	4	x7c	M270-50 F2	5/20
45	PL	3 1/2 x 1/2	6	6	x7bb	M270-50	1/19
46							
47	CRP SCREW	3/8"	1 1/2	16	A574		NO NUTS SOCKET HEAD 5/12
48	WASH	3/8"	8	16	F844		5/15
49	STUD	7/8"	8	786	A108		5/3
50							
51							
52							
53							
54							
55							

**CABLE FRAMES #6**  
**VINCENNES STEEL CORP.**  
VINCENNES, IND.

Drawn	Checked	Approved	Revised
RB	TRM		RB-TRM
5/23/98	10/20/98		11/19/98

U.S. 231 OVER THE OHIO RIVER AND INDIANA 66  
KENTUCKY D.O.H. / INDIANA D.O.I.  
DAVIESS COUNTY, KY / SPENCER COUNTY, IND  
PROJ. 00KBD 00IGI 00I

Shop Paint SEE GNI

Edge Distance AS NOTED Holes: 15/16" (LUN)

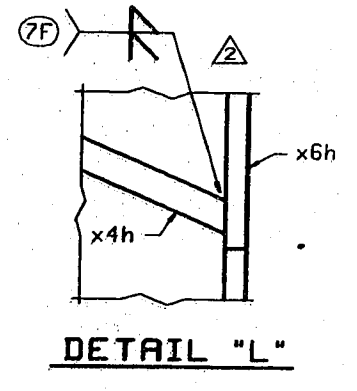
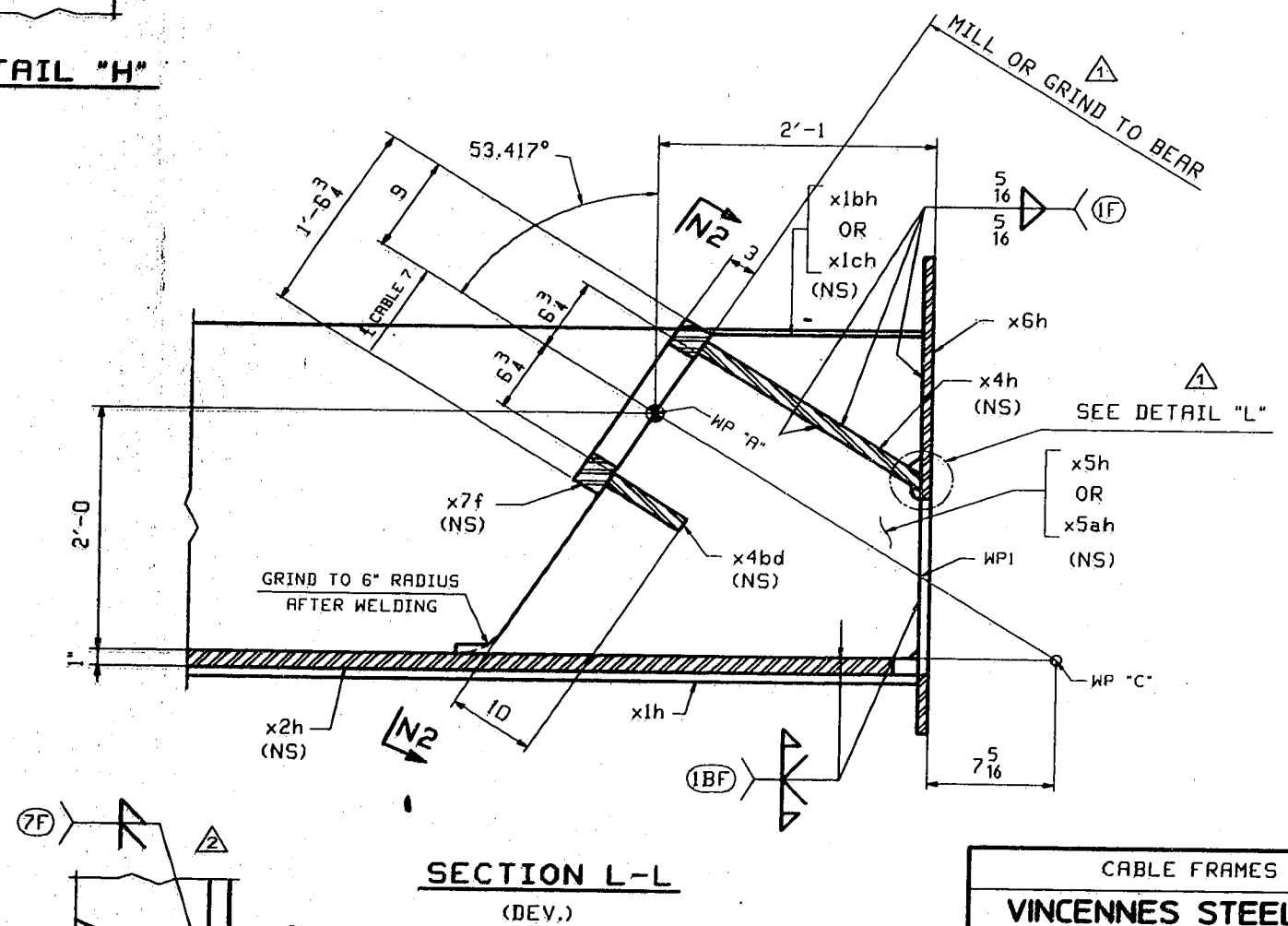
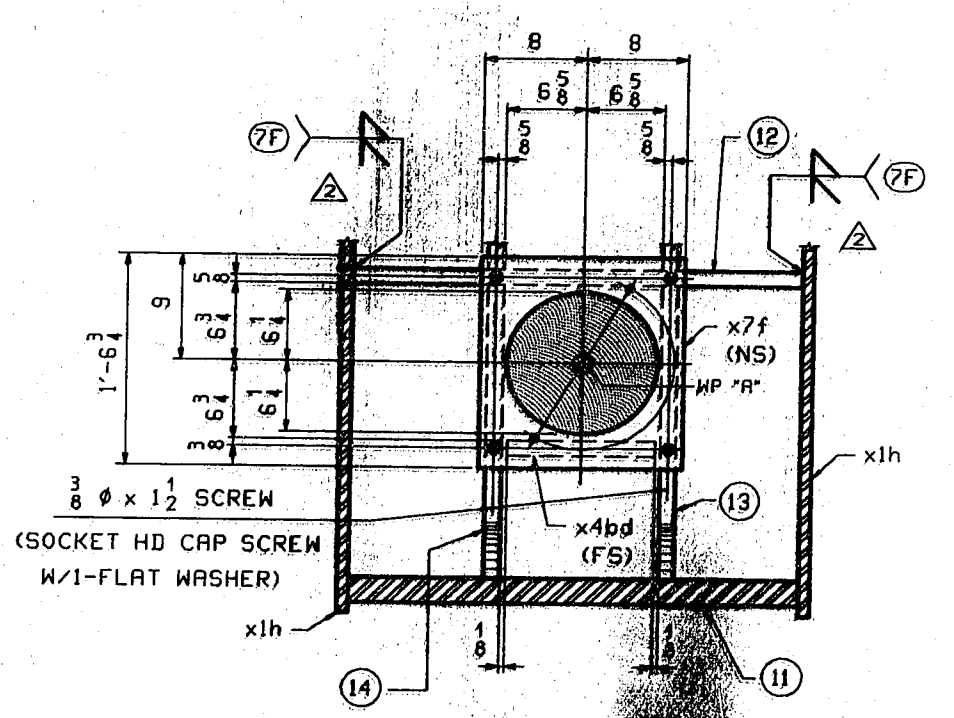
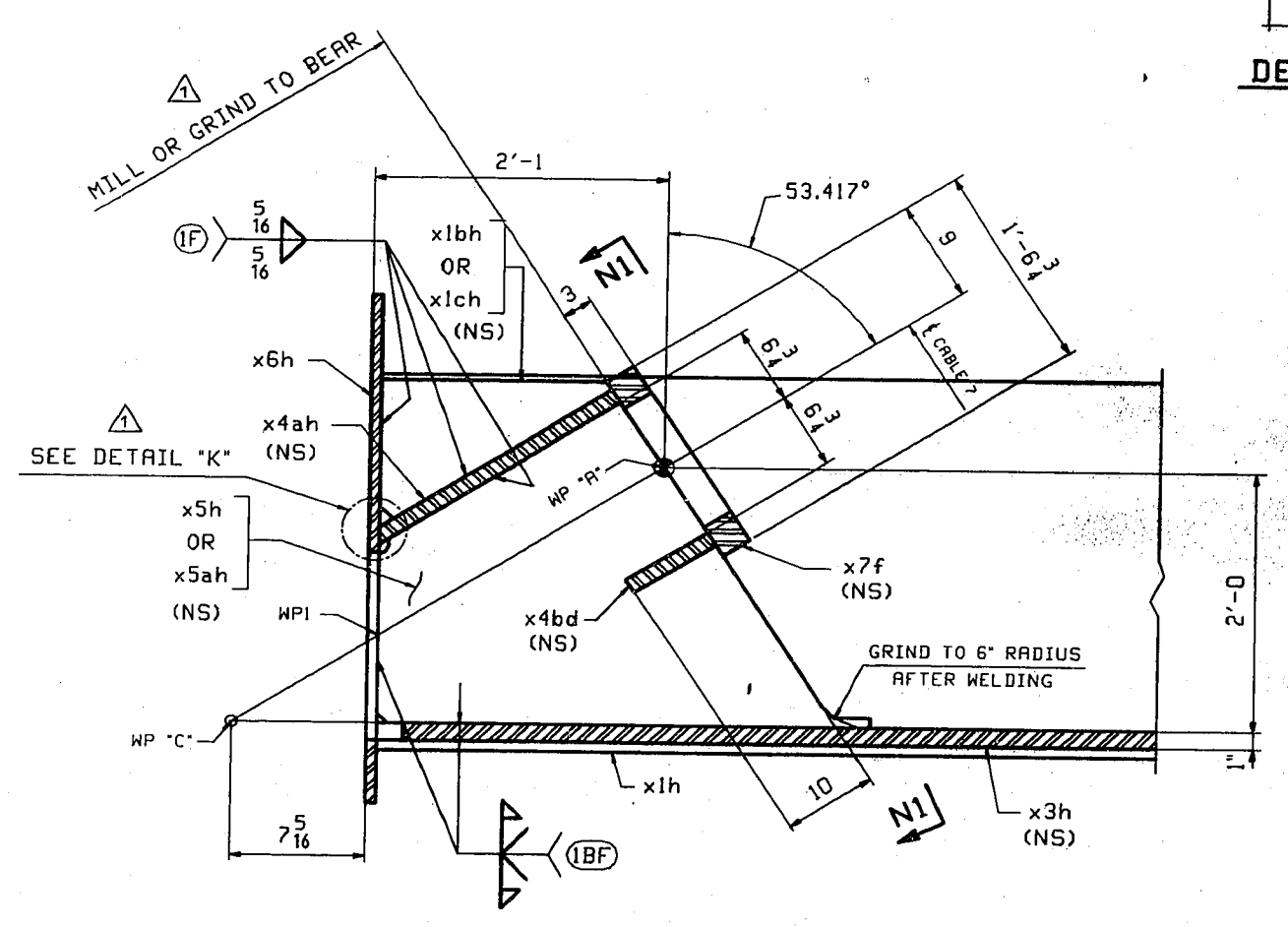
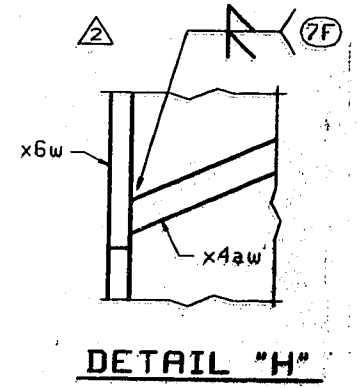
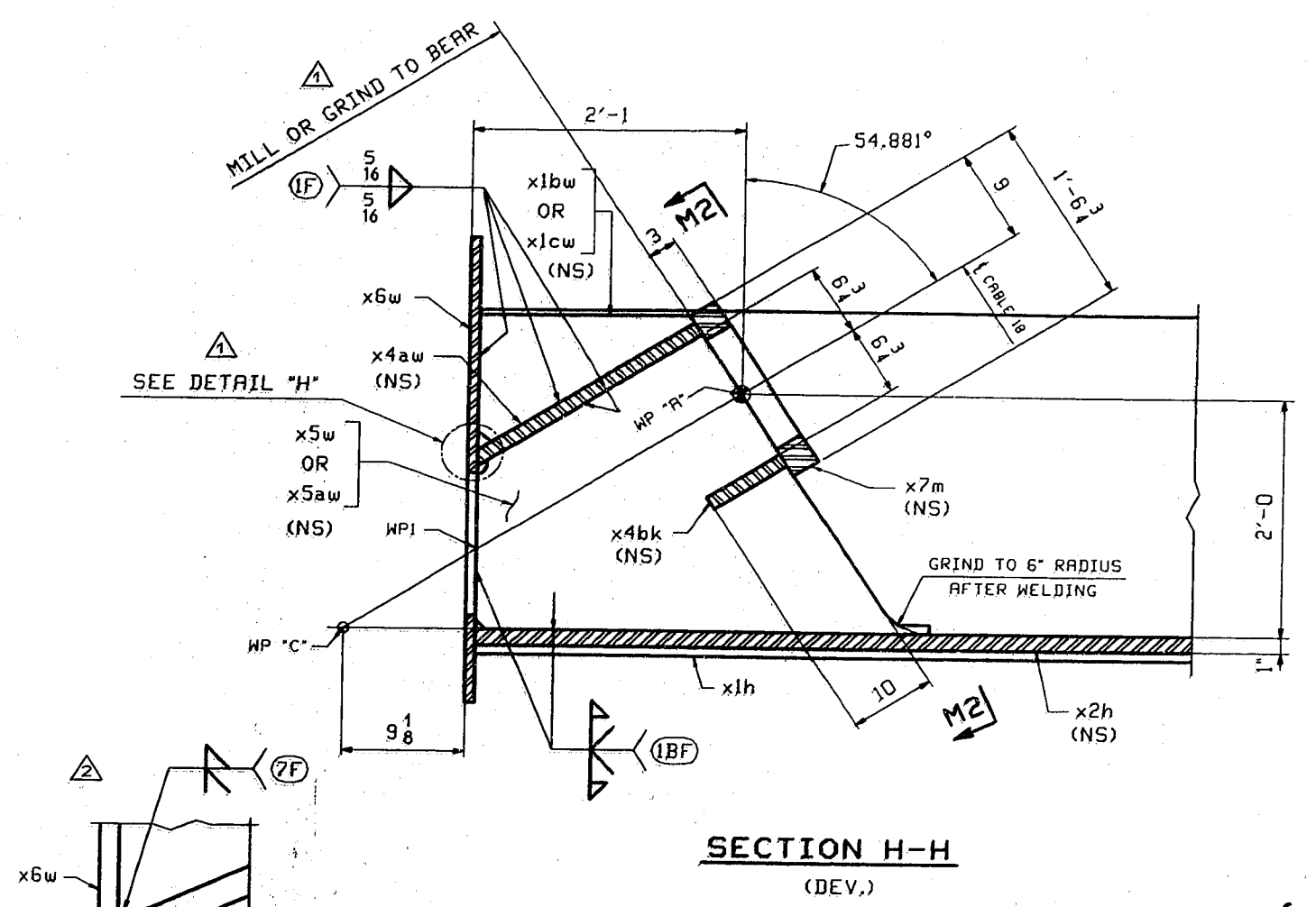
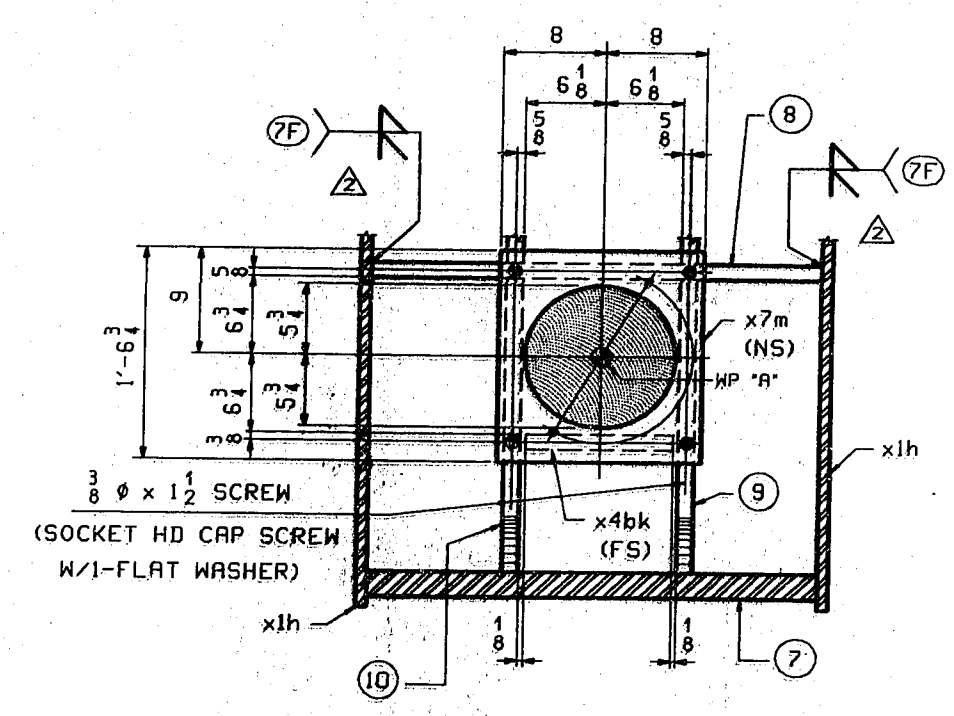
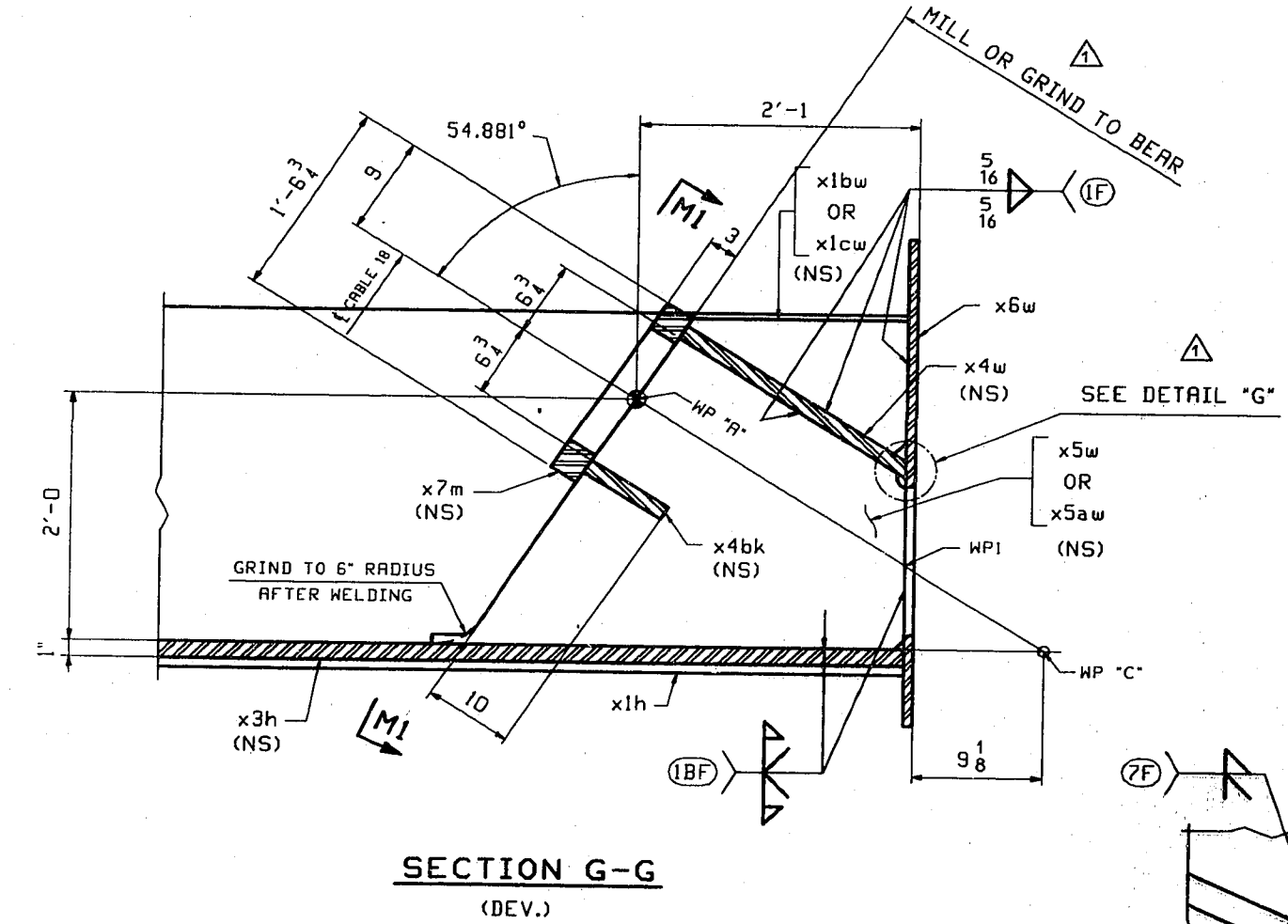
Contr. No. **671** Sh. 6E of 49

WORK THIS SHEET WITH SHEET 6AE, 6BE, 6CE & 6DE.









SECTION @ BRG PL

SECTION	(7)	(8)	(9)	(10)
(DEV.) M1-M1	x3h	x4w	x5w	x5aw
(DEV.) M2-M2	x2h	x4aw	x5aw	x5w

SECTION @ BRG PL

SECTION	(11)	(12)	(13)	(14)
(DEV.) N1-N1	x3h	x4ah	x5ah	x5h
(DEV.) N2-N2	x2h	x4h	x5h	x5ah

CABLE FRAMES #7  
**VINCENNES STEEL CORP.**  
 VINCENNES, IND.

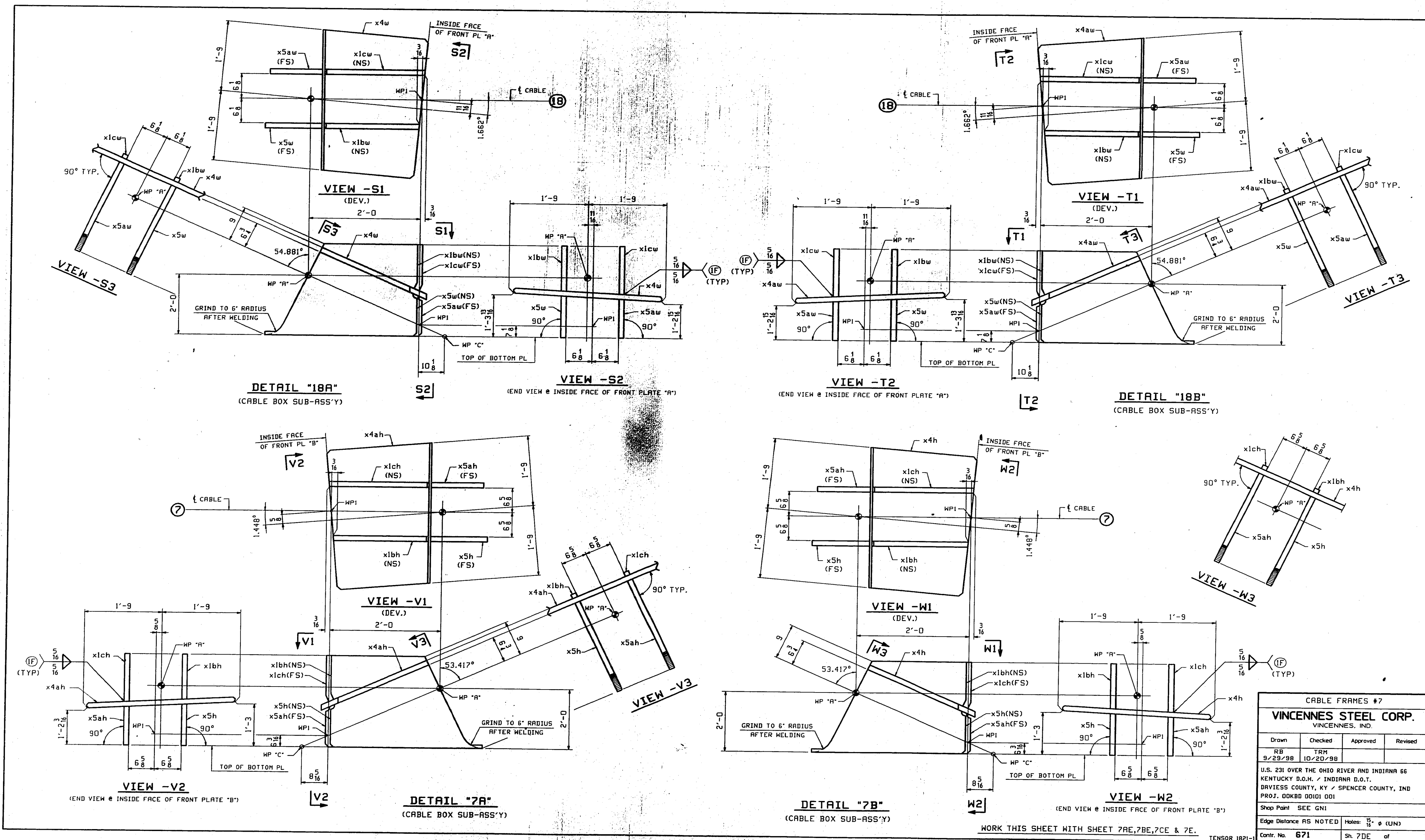
Drawn	Checked	Approved	Revised
RB	TRM		
9/29/98	10/20/98		RB/TRM 11/19/98

U.S. 231 OVER THE OHIO RIVER AND INDIANA 66  
 KENTUCKY D.O.H. / INDIANA D.O.I.  
 DANVERS COUNTY, KY / SPENCER COUNTY, IND  
 PROJ. DOKBD 00101 001

Shop Print SEE GNI  
 Edge Distance AS NOTED  
 Holes: 1/8" φ (UN)  
 Contr. No. 671 Sh. 7CE of

WORK THIS SHEET WITH SHEET 7AE, 7BE, 7DE & 7E.





CABLE FRAMES #7

**VINCENNES STEEL CORP.**  
VINCENNES, IND.

Drawn	Checked	Approved	Revised
RB	TRH		
9/29/98	10/20/98		

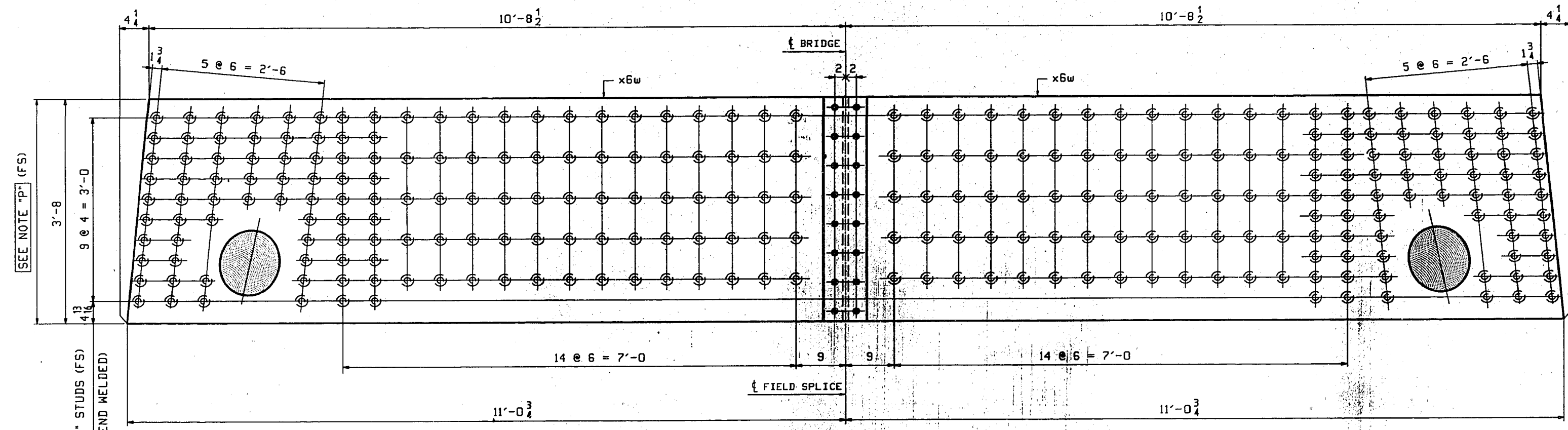
U.S. 231 OVER THE OHIO RIVER AND INDIANA 66  
KENTUCKY D.O.M. / INDIANA D.O.T.  
DAVISS COUNTY, KY / SPENCER COUNTY, IND  
PROJ. 00KBB 00101 001

Shop Point SEE GNI

Edge Distance AS NOTED Holes:  $\frac{5}{16}$  @ (UN)

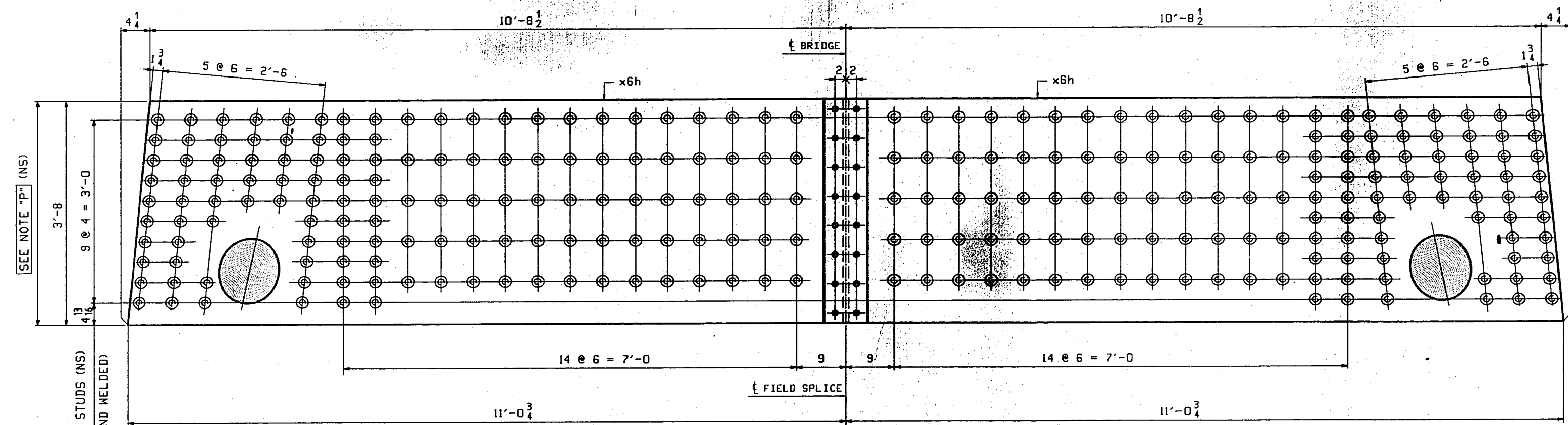
Cont. No. 671 Sh. 7DE of

WORK THIS SHEET WITH SHEET 7A, 7B, 7C & 7E.  
TENSOR 1821-



**DETAIL "S1"**  
(INSIDE PLATES NOT SHOWN)

**NOTE "P"**  
EMBEDDED AREA IS TO RECEIVE 1.5 MILS OF  
PAINT THICKNESS AS DEFINED ON SHEET GNI.



**DETAIL "S2"**  
(INSIDE PLATES NOT SHOWN)

BILL OF MATERIAL							
LN	KIND	SECTION	LENGTH	REQ.	MARK	GRADE	REMARKS
1	CABLE FRAME			1	A7		PLATE EXCEPT FOR RL & DR 12691
2	CABLE FRAME			1	C7		12691
3	PL	44 x 1	8	8	x1b	M270-50 F2	6/4
4	PL	36 x 1	12'-10	4	x1h	M270-50 F2	6/4
5	PL	14 1/2 x 1 1/2	1'-7 1/2	2	x1bh	M270-50 F2	6/11
6	PL	14 1/2 x 1 1/2	1'-7 1/2	2	x1bw	M270-50 F2	6/11
7	PL	15 1/2 x 1 1/2	1'-7 1/2	2	x1ch	M270-50 F2	6/11
8	PL	14 1/2 x 1 1/2	1'-7 1/2	2	x1cw	M270-50 F2	6/11
9	PL	42 x 1	12'-10	2	x2h	M270-50 F2	6/3
10	PL	25 1/2 x 1 1/2	3'-6 1/2	2	x4h	M270-50 F2	6/3
11	PL	25 1/2 x 1 1/2	3'-6 1/2	2	x4hw	M270-50 F2	6/3
12	PL	10 x 1/2	1'-1	2	x4bd	M270-50 F2	6/8
13	PL	10 x 1/2	1'-0	2	x4bk	M270-50 F2	6/8
14	PL	2 3/8 x 1 1/2	3'-8 1/2	2	x5h	M270-50 F2	6/10
15	PL	2 3/8 x 1 1/2	3'-7 1/2	2	x5w	M270-50 F2	6/10
16	PL	2 3/8 x 1 1/2	3'-8 1/2	2	x5hw	M270-50 F2	6/10
17	PL	2 3/8 x 1 1/2	3'-8 1/2	2	x5sw	M270-50 F2	6/10
18	PL	44 x 1	11'-0 1/2	2	x6h	M270-50 F2	6/3
19	PL	44 x 1	11'-0 1/2	2	x6w	M270-50 F2	6/3
20	PL	16 x 3	1'-6 1/2	2	x7f	M270-50 F2	6/2
21	PL	16 x 3	1'-6 1/2	2	x7m	M270-50 F2	6/2
22	PL	3 1/2 x 1/2	6	6	x7bb	M270-50	1/19
23							
24	CRP SCREW	3/8"	1 1/2	16	A574	NO NUTS SOCKET HEAD	9/12
25	WASH	3/8"		16	F844		9/15
26	STUD	3/8"	8	822	A108		9/3
27							
28							
29	CABLE FRAME			1	B7		PLATE EXCEPT FOR RL & DR 12488
30	CABLE FRAME			1	D7		12488
31	PL	36 x 1	12'-10	4	x1h	M270-50 F2	6/4
32	PL	14 1/2 x 1 1/2	1'-7 1/2	2	x1bh	M270-50 F2	6/11
33	PL	14 1/2 x 1 1/2	1'-7 1/2	2	x1bw	M270-50 F2	6/11
34	PL	15 1/2 x 1 1/2	1'-7 1/2	2	x1ch	M270-50 F2	6/11
35	PL	14 1/2 x 1 1/2	1'-7 1/2	2	x1cw	M270-50 F2	6/11
36	PL	42 x 1	12'-10	2	x2h	M270-50 F2	6/3
37	PL	25 1/2 x 1 1/2	3'-6 1/2	2	x4h	M270-50 F2	6/3
38	PL	25 1/2 x 1 1/2	3'-6 1/2	2	x4hw	M270-50 F2	6/3
39	PL	10 x 1/2	1'-1	2	x4bd	M270-50 F2	6/8
40	PL	10 x 1/2	1'-0	2	x4bk	M270-50 F2	6/8
41	PL	2 3/8 x 1 1/2	3'-8 1/2	2	x5h	M270-50 F2	6/10
42	PL	2 3/8 x 1 1/2	3'-7 1/2	2	x5w	M270-50 F2	6/10
43	PL	2 3/8 x 1 1/2	3'-8 1/2	2	x5hw	M270-50 F2	6/10
44	PL	2 3/8 x 1 1/2	3'-8 1/2	2	x5sw	M270-50 F2	6/10
45	PL	44 x 1	11'-0 1/2	2	x6h	M270-50 F2	6/3
46	PL	44 x 1	11'-0 1/2	2	x6w	M270-50 F2	6/3
47	PL	16 x 3	1'-6 1/2	2	x7f	M270-50 F2	6/2
48	PL	16 x 3	1'-6 1/2	2	x7m	M270-50 F2	6/2
49	PL	3 1/2 x 1/2	6	4	x7bb	M270-50	1/19
50							
51	CRP SCREW	3/8"	1 1/2	16	A574	NO NUTS SOCKET HEAD	9/12
52	WASH	3/8"		16	F844		9/15
53	STUD	3/8"	8	822	A108		9/3
54							
55							

**CABLE FRAMES #7**  
**VINCENNES STEEL CORP.**  
VINCENNES, IND.

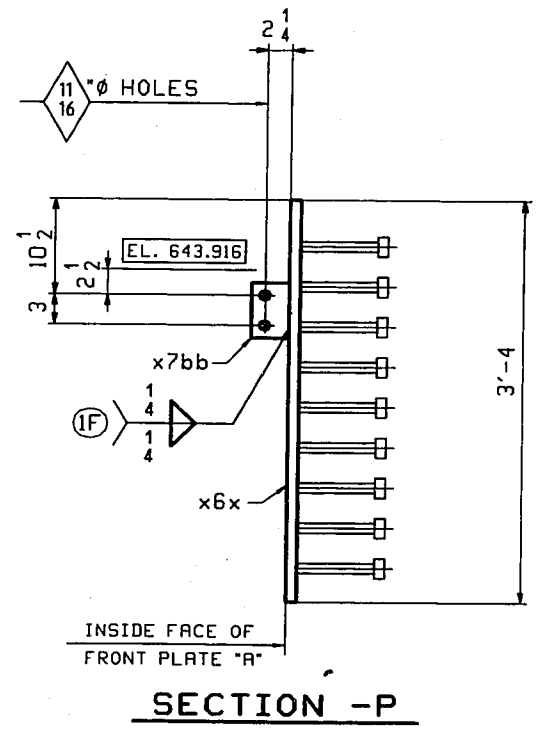
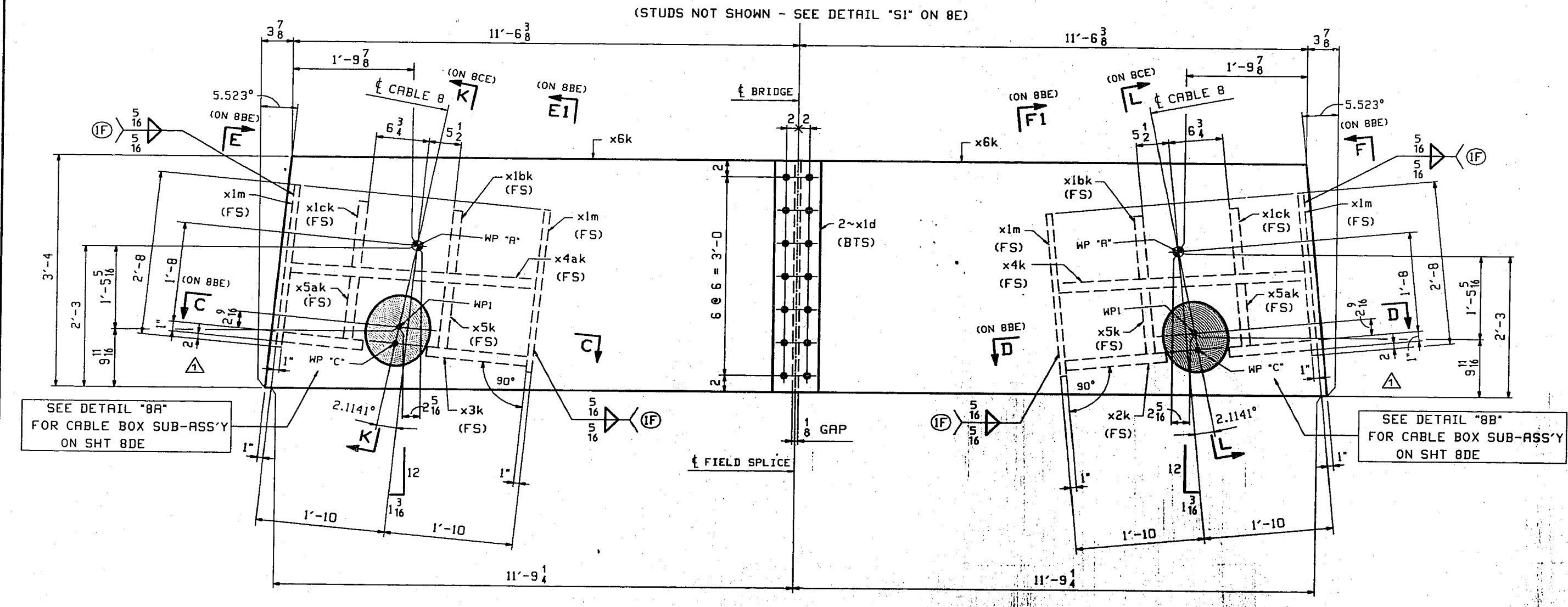
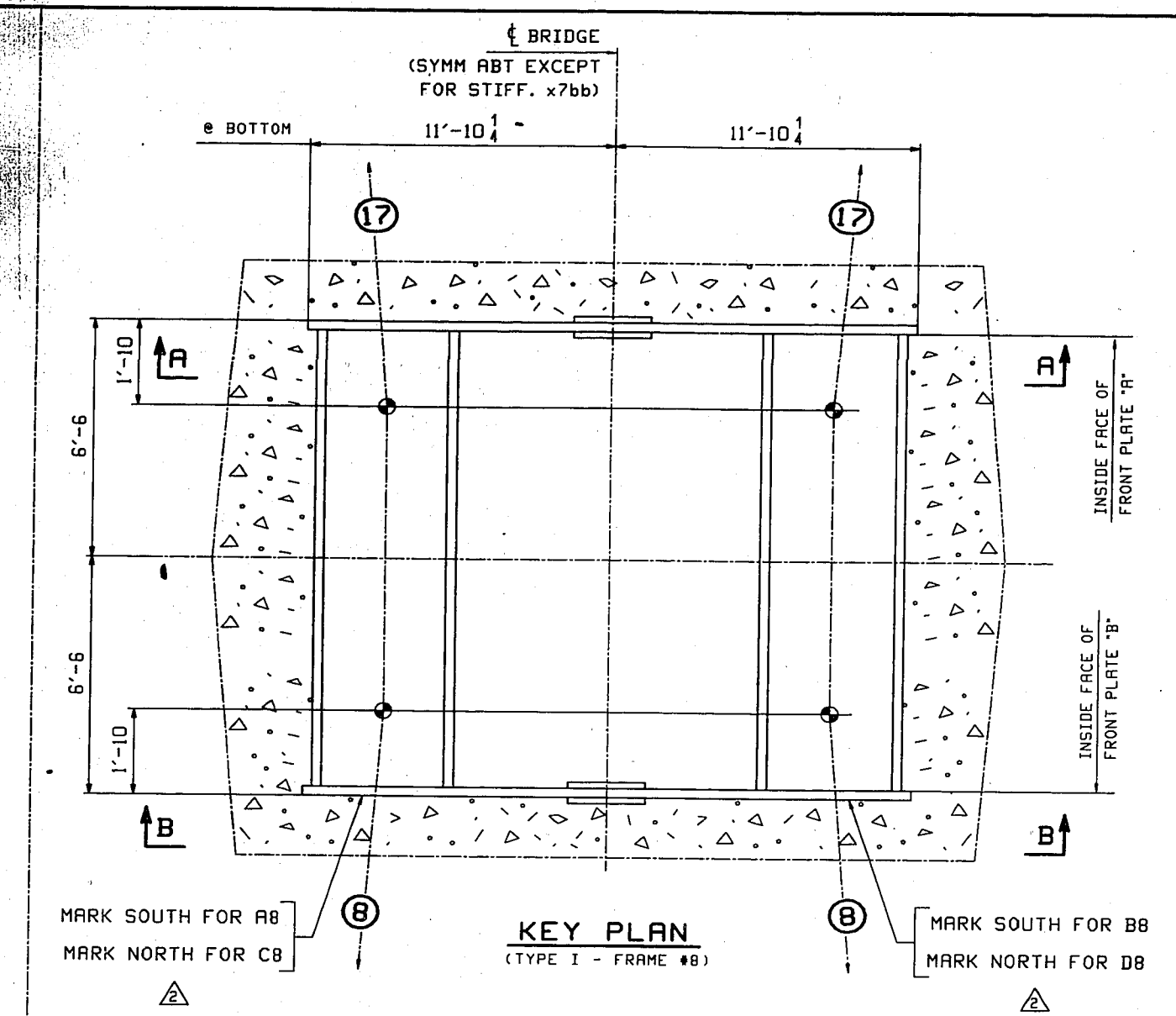
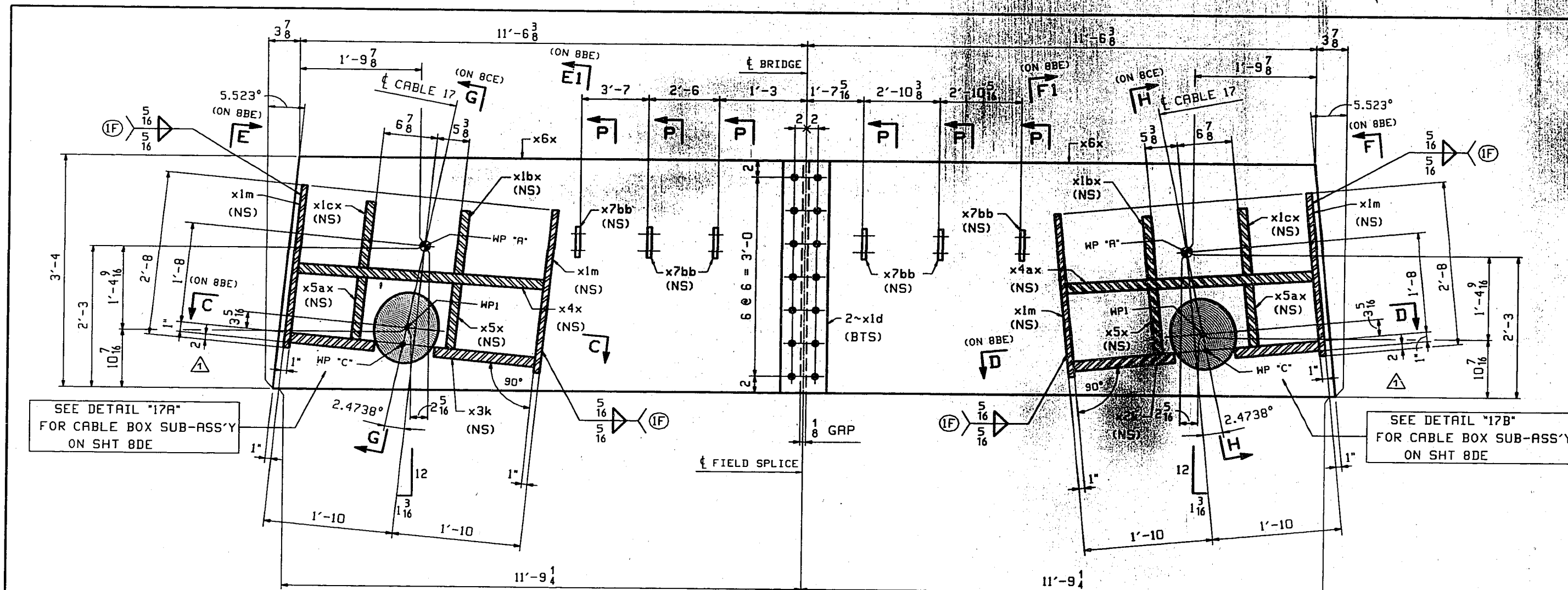
Drawn	Checked	Approved	Revised
RB	TRM		RB/TRM
9/29/98	10/20/98		11/19/98

U.S. 231 OVER THE OHIO RIVER AND INDIANA 66  
KENTUCKY D.O.H. / INDIANA D.O.T.  
BOVLESS COUNTY, KY / SPENCER COUNTY, IND  
PROJ. DOKBD 00101 001

Shop Print SEE GNI  
Edge Distance AS NOTED Notes: 1/2" x (UN)  
Contr. No. 671 Sh. 7E of

WORK THIS SHEET WITH SHEET 7AE, 7BE, 7CE & 7DE.  
TENSOR 1821-





ONE ~ CABLE FRAME ~ A8 (FRAME #8 @ PIER B) ALIKE EXCEPT FOR MARK & DR

ONE ~ CABLE FRAME ~ C8 (FRAME #8 @ PIER C)

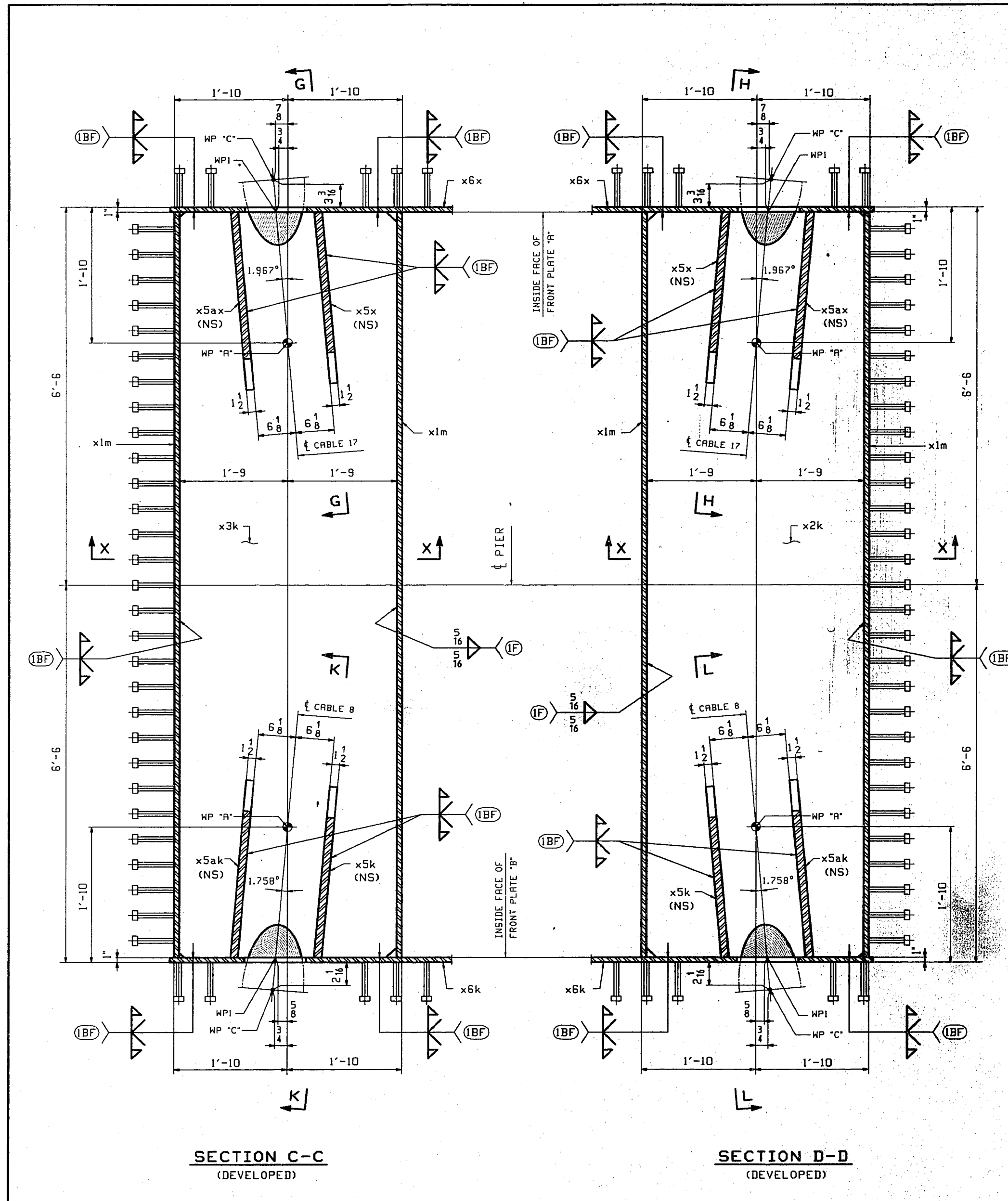
ONE ~ CABLE FRAME ~ B8 (FRAME #8 @ PIER B) ALIKE EXCEPT FOR MARK & DR

ONE ~ CABLE FRAME ~ D8 (FRAME #8 @ PIER C)

- NOTES:
1. FOR CABLE FRAME STANDARD DETAILS SEE SHT. XI - X7.
  2. FOR GENERAL NOTES SEE SHEET GNI.
  3. ALL MATERIAL TO BE M270 GR50 (FCM) (UN). (FCM - DENOTES FRACTURE CRITICAL MATERIAL)
  4. ALL HOLES TO BE DR (UN).
  5. BTS = BOLT TO SHIP.

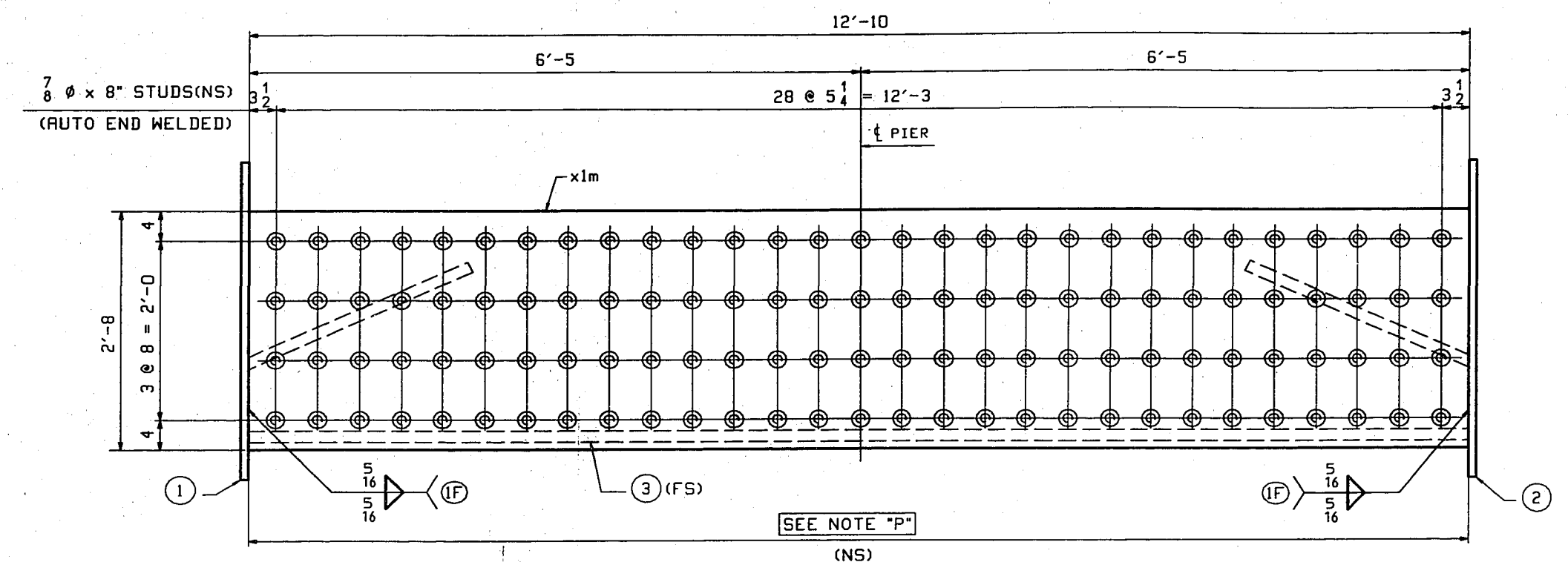
CABLE FRAMES #8			
VINCENNES STEEL CORP. VINCENNES, IND.			
Drawn	Checked	Approved	Revised
RB	TRM		RB/TRM
3/29/98	10/20/98		12/22/98
U.S. 231 OVER THE OHIO RIVER AND INDIANA 66 KENTUCKY D.O.R. / INDIANA D.O.T. DAVIESS COUNTY, KY / SPENCER COUNTY, IND PROJ. OOKBD 00101 001			
Shop Print SEE GNI			
Edge Distance AS NOTED Holes: 15/16" φ (UN)			
Contr. No. 671 Sh BAE of			

WORK THIS SHEET WITH SHEET 8BE,8CE,8DE & 8E.  
TENSOR 1821-1



SECTION C-C  
(DEVELOPED)

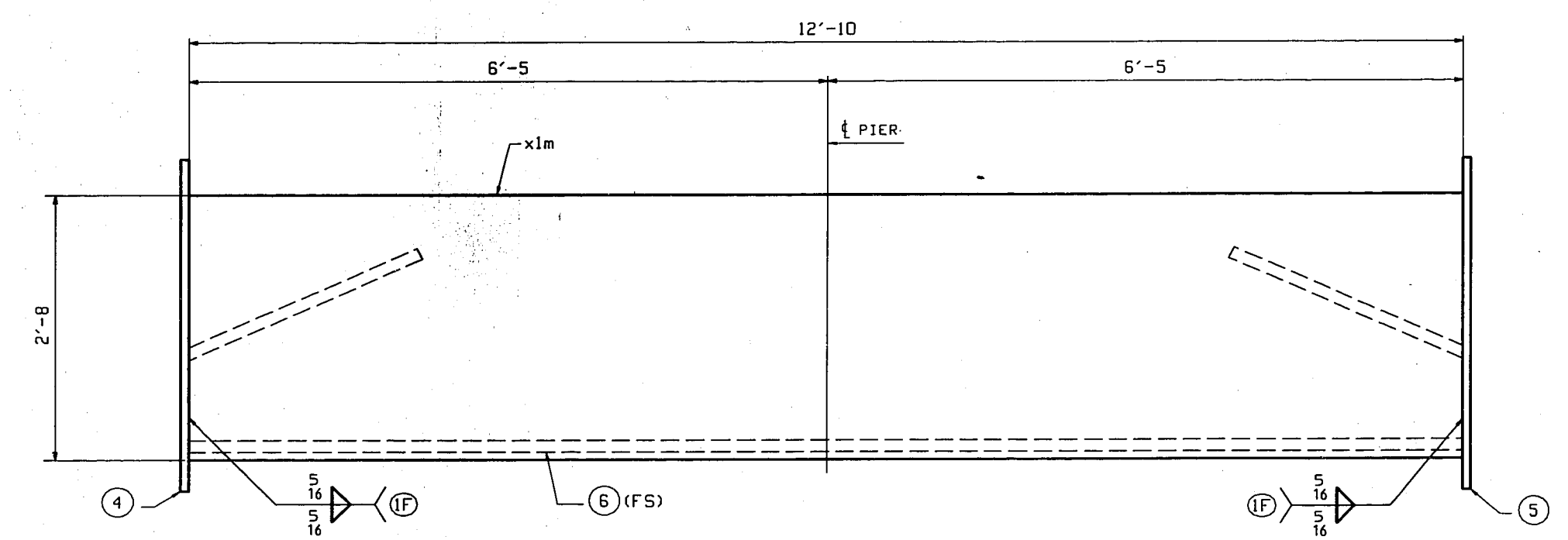
SECTION D-D  
(DEVELOPED)



NOTE "P"  
EMBEDDED AREA IS TO RECEIVE 1.5 MILS OF PAINT THICKNESS AS DEFINED ON SHEET GNI.

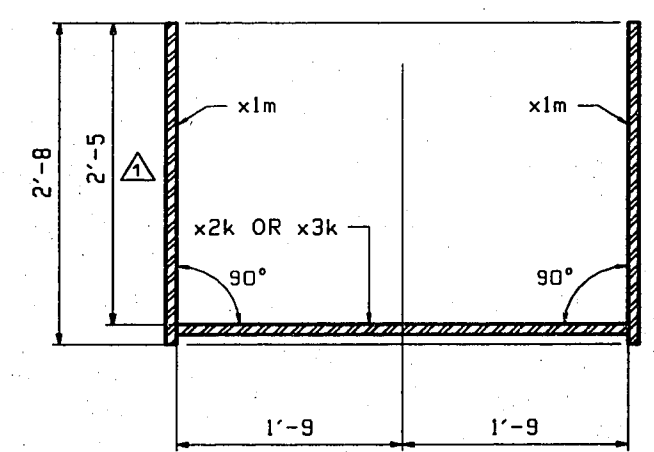
SIDE VIEWS E & F

VIEW	①	②	③
E	x6x	x6x	x3k
F	x6x	x6x	x2k



SIDE SECTIONS E1 & F1

SECTION	④	⑤	⑥
E1	x6x	x6x	x3k
F1	x6x	x6x	x2k



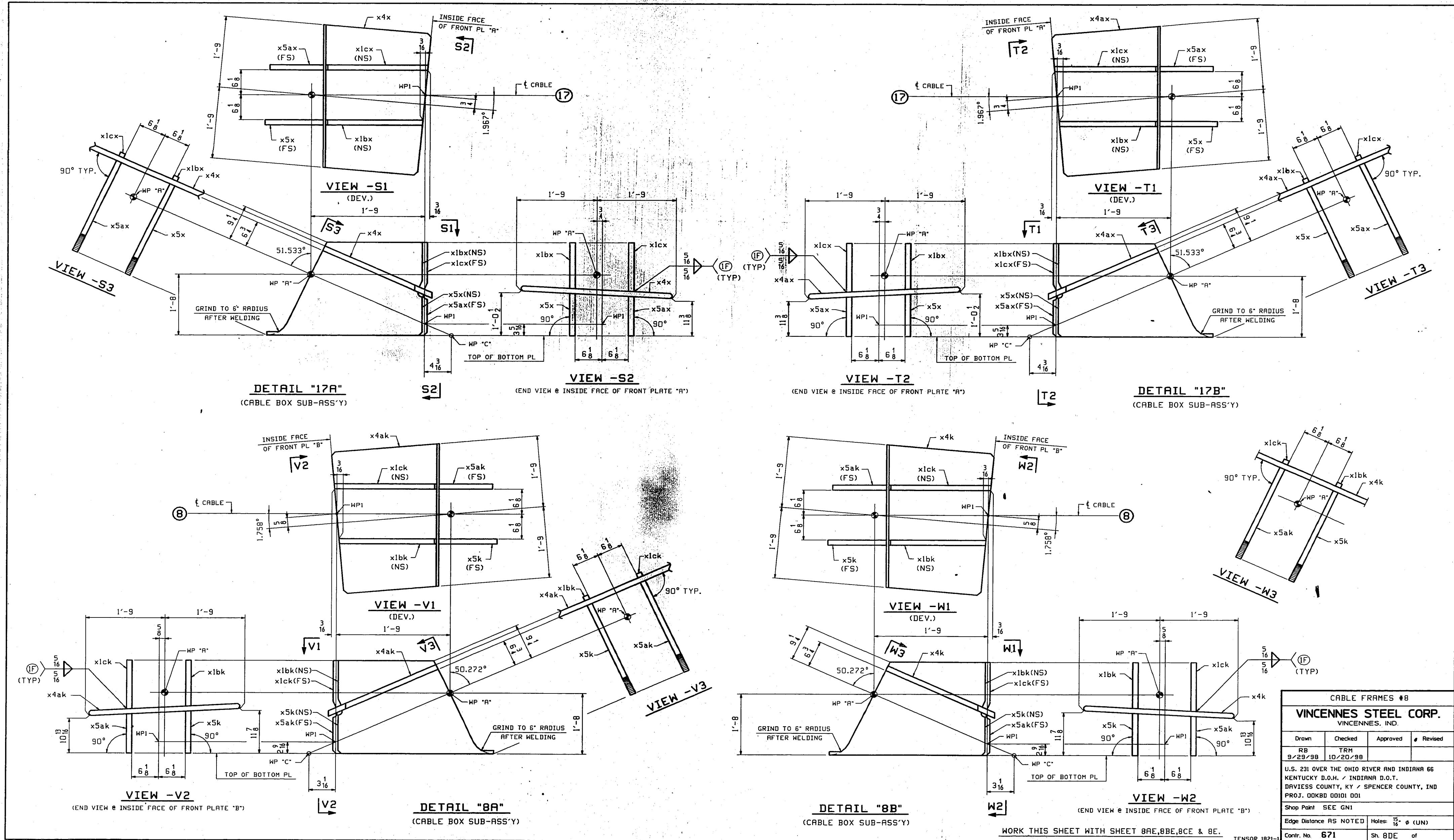
SECTION X-X  
(STUDS NOT SHOWN)

WORK THIS SHEET WITH SHEET 88A, 88C, 88E & 88E.

CABLE FRAMES #8			
VINCENNES STEEL CORP. VINCENNES, IND.			
Drawn	Checked	Approved	Revised
RB	TRM		RB/TRM
9/29/88	10/20/88		11/10/88
U.S. 231 OVER THE OHIO RIVER AND INDIANA 66 KENTUCKY D.O.H. / INDIANA D.O.T. BAYLESS COUNTY, KY / SPENCER COUNTY, IND PROJ. 00K8D 00101 001			
Shop Print SEE GNI			
Edge Distance AS NOTED			
Holes: 1/2" Ø (UN)			
Contr. No. 671		Sh. 88E of	

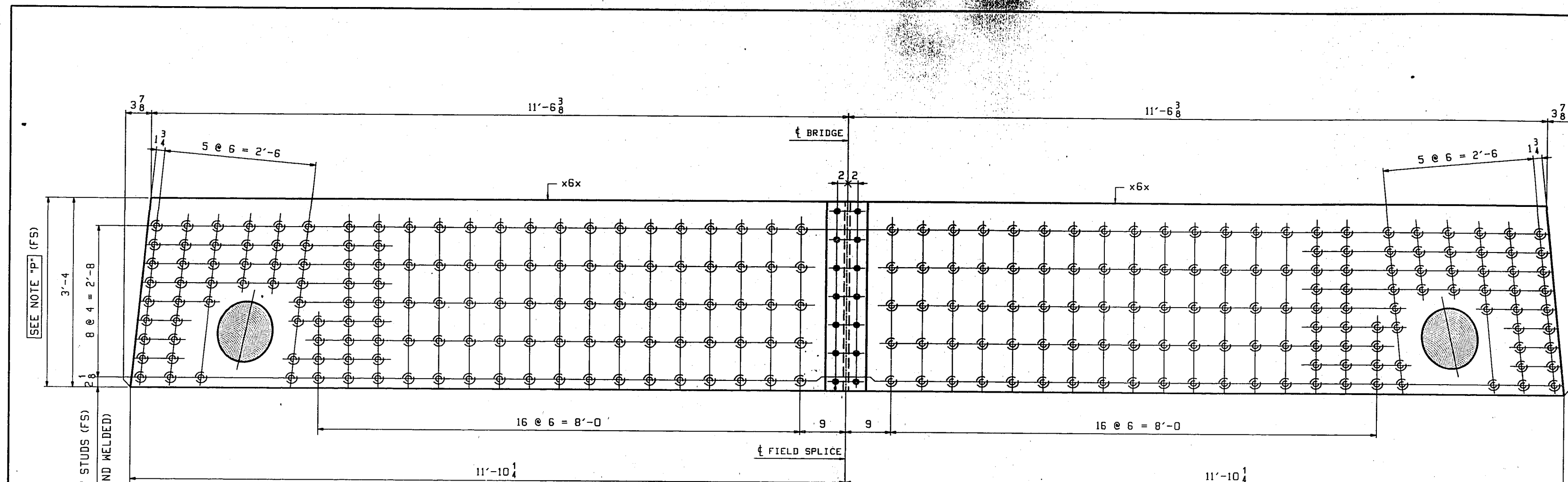






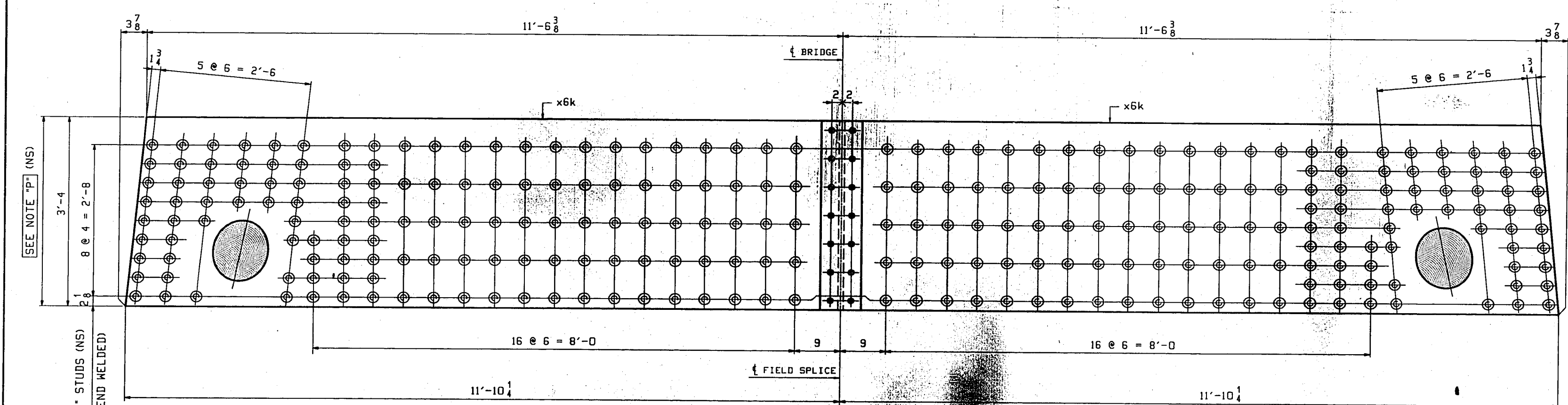
CABLE FRAMES #8			
VINCENNES STEEL CORP.			
VINCENNES, IND.			
Drawn	Checked	Approved	Revised
RB	TRM		
9/28/38	10/20/38		
U.S. 231 OVER THE OHIO RIVER AND INDIANA 66			
KENTUCKY D.O.H. / INDIANA D.O.T.			
DAVISS COUNTY, KY / SPENCER COUNTY, IND			
PROJ. 00K8B 00101 001			
Shop Point SEE GN1			
Edge Distance AS NOTED			
Holes: 1/2" ø (UN)			
Cont. No	671	Sh. 8DE	of





**DETAIL "S1"**  
(INSIDE PLATES NOT SHOWN)

**NOTE "P"**  
EMBEDDED AREA IS TO RECEIVE 1.5 MILS OF  
PAINT THICKNESS AS DEFINED ON SHEET GNI.



**DETAIL "S2"**  
(INSIDE PLATES NOT SHOWN)

WORK THIS SHEET WITH SHEET BAE, BDE, BCE & BDE.

BILL OF MATERIAL							
LN	KIND	SECTION	LENGTH	REQ.	MARK	GRADE	REMARKS
1	CABLE FRAME			1	RB		PLATE EXCEPT FOR NO. 1 BR
2	CABLE FRAME			1	CB		12080
3	PL	40 x 1/2	8	8	xld	H270-50 F2	6/19
4	PL	32 x 1	12'-10	4	xlm	H270-50 F2	6/17
5	PL	13 1/2 x 1 1/2	1'-3 1/2	2	xlbc	H270-50 F2	6/24
6	PL	13 1/2 x 1 1/2	1'-3 1/2	2	xlbc	H270-50 F2	6/24
7	PL	14 x 1 1/2	1'-3 1/2	2	xlcc	H270-50 F2	6/24
8	PL	13 1/2 x 1 1/2	1'-4 1/2	2	xlcc	H270-50 F2	6/24
9	PL	42 x 1	12'-10	2	x3k	H270-50 F2	6/18
10	PL	22 1/2 x 1 1/2	3'-6 1/2	2	x4x	H270-50 F2	6/22
11	PL	22 1/2 x 1 1/2	3'-6 1/2	2	x4x	H270-50 F2	6/22
12	PL	9 x 1/2	1'-0	4	x4bf	H270-50 F2	6/21
13	PL	25 1/2 x 1 1/2	3'-4 1/2	2	x5k	H270-50 F2	6/23
14	PL	25 1/2 x 1 1/2	3'-4 1/2	2	x5k	H270-50 F2	6/23
15	PL	24 1/2 x 1 1/2	3'-4 1/2	2	x5ak	H270-50 F2	6/23
16	PL	24 1/2 x 1 1/2	3'-4 1/2	2	x5ax	H270-50 F2	6/23
17	PL	40 x 1	11'-10 1/2	2	x6k	H270-50 F2	6/16
18	PL	40 x 1	11'-10 1/2	2	x6k	H270-50 F2	6/16
19	PL	16 1/2 x 3	1'-7	4	x7g	H270-50 F2	6/20
20	PL	3 1/2 x 1/2	6	6	x7bb	H270-50	1/19
21							
22	CRP SCREW	3/8"	1 1/2	16	RS74		NO NUTS SOCKET HEAD 9/12
23	WASH	3/8"		16	FB44		9/15
24	STUD	7/8"	8	760	RI08		9/3
25							
26	CABLE FRAME			1	BB		PLATE EXCEPT FOR NO. 1 BR
27	CABLE FRAME			1	DB		11898
28	PL	32 x 1	12'-10	4	xlm	H270-50 F2	6/17
29	PL	13 1/2 x 1 1/2	1'-3 1/2	2	xlbc	H270-50 F2	6/24
30	PL	13 1/2 x 1 1/2	1'-3 1/2	2	xlbc	H270-50 F2	6/24
31	PL	14 x 1 1/2	1'-3 1/2	2	xlcc	H270-50 F2	6/24
32	PL	13 1/2 x 1 1/2	1'-4 1/2	2	xlcc	H270-50 F2	6/24
33	PL	42 x 1	12'-10	2	x2k	H270-50 F2	6/18
34	PL	22 1/2 x 1 1/2	3'-6 1/2	2	x4k	H270-50 F2	6/22
35	PL	22 1/2 x 1 1/2	3'-6 1/2	2	x4x	H270-50 F2	6/22
36	PL	9 x 1/2	1'-0	4	x4bf	H270-50 F2	6/21
37	PL	25 1/2 x 1 1/2	3'-4 1/2	2	x5k	H270-50 F2	6/23
38	PL	25 1/2 x 1 1/2	3'-4 1/2	2	x5k	H270-50 F2	6/23
39	PL	24 1/2 x 1 1/2	3'-4 1/2	2	x5ak	H270-50 F2	6/23
40	PL	24 1/2 x 1 1/2	3'-4 1/2	2	x5ax	H270-50 F2	6/23
41	PL	40 x 1	11'-10 1/2	2	x6k	H270-50 F2	6/16
42	PL	40 x 1	11'-10 1/2	2	x6k	H270-50 F2	6/16
43	PL	16 1/2 x 3	1'-7	4	x7g	H270-50 F2	6/20
44	PL	3 1/2 x 1/2	6	6	x7bb	H270-50	1/19
45							
46							
47	CRP SCREW	3/8"	1 1/2	16	RS74		NO NUTS SOCKET HEAD 9/12
48	WASH	3/8"		16	FB44		9/15
49	STUD	7/8"	8	760	RI08		9/3
50							
51							
52							
53							
54							
55							

CABLE FRAMES #8

**VINCENNES STEEL CORP.**  
VINCENNES, IND.

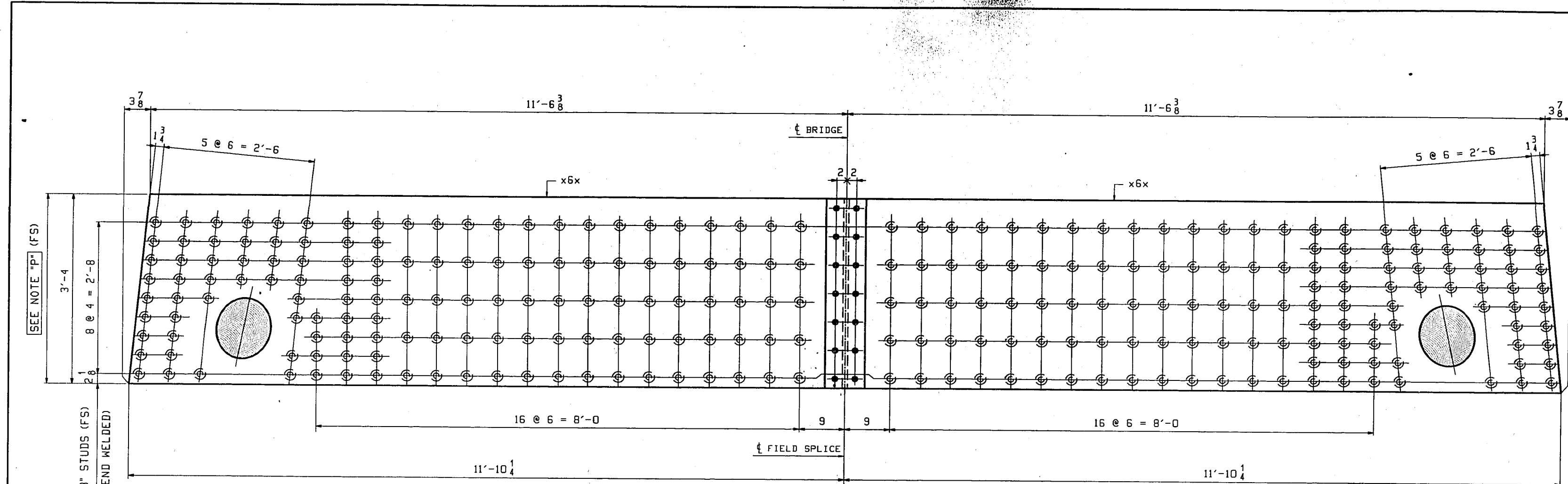
Drawn	Checked	Approved	Revised
RB	TRM		RB/TRM
9/29/98	10/20/98		11/18/98

U.S. 231 OVER THE OHIO RIVER AND INDIANA 66  
KENTUCKY D.O.H. / INDIANA D.O.T.  
BIVISS COUNTY, KY / SPENCER COUNTY, IND  
PROJ. 00KBD 00101 001

Shop Point SEE GNI

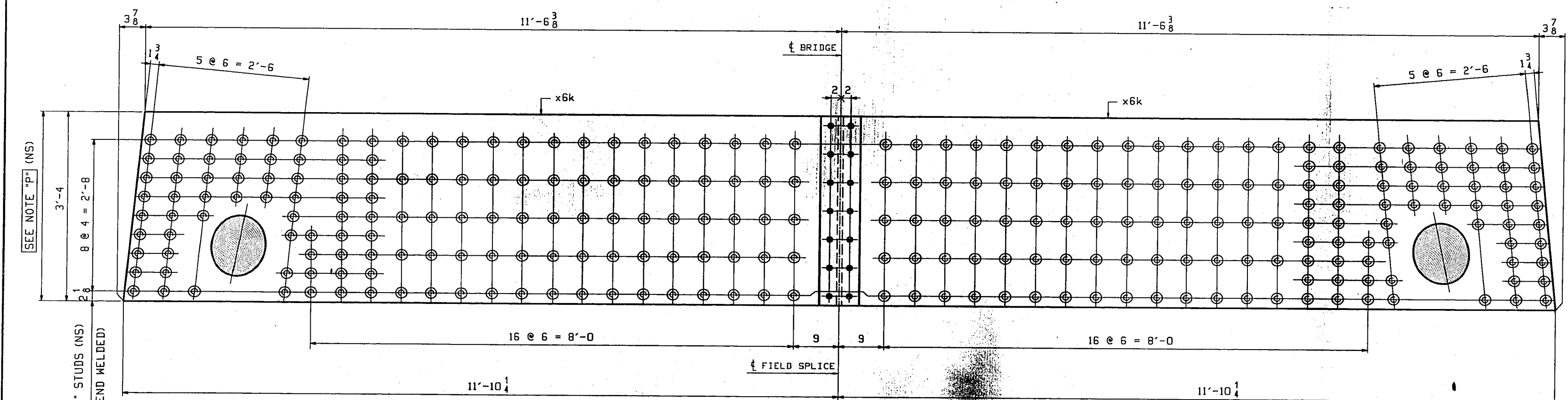
Edge Distance AS NOTED    Holes: 1/2" Ø (LUN)

Contr. No. **671**    Sh. BE of



**DETAIL "S1"**  
(INSIDE PLATES NOT SHOWN)

**NOTE "P"**  
EMBEDDED AREA IS TO RECEIVE 1.5 MILS OF  
PAINT THICKNESS AS DEFINED ON SHEET GNI.



**DETAIL "S2"**  
(INSIDE PLATES NOT SHOWN)

BILL OF MATERIAL							
LN	KIND	SECTION	LENGTH	REQ.	MARK	GRADE	REMARKS
1	CABLE FRAME			1	RB		ALIKE EXCEPT FOR NO. 1 20
2	CABLE FRAME			1	CB		12080
3	PL	40 x 1	8	8	x1d	H270-50 F2	6/19
4	PL	32 x 1	12'-10	4	x1m	H270-50 F2	6/17
5	PL	13 1/2 x 1 1/2	1'-3 1/2	2	x1bk	H270-50 F2	6/24
6	PL	13 1/2 x 1 1/2	1'-3 1/2	2	x1bx	H270-50 F2	6/24
7	PL	14 x 1 1/2	1'-3 1/2	2	x1ck	H270-50 F2	6/24
8	PL	13 1/2 x 1 1/2	1'-4 1/2	2	x1cx	H270-50 F2	6/24
9	PL	42 x 1	12'-10	2	x3k	H270-50 F2	6/18
10	PL	22 1/2 x 1 1/2	3'-6 1/2	2	x4k	H270-50 F2	6/22
11	PL	22 1/2 x 1 1/2	3'-6 1/2	2	x4kk	H270-50 F2	6/22
12	PL	9 x 1	1'-0	4	x4bf	H270-50 F2	6/21
13	PL	25 1/2 x 1 1/2	3'-4 1/2	2	x5k	H270-50 F2	6/23
14	PL	25 1/2 x 1 1/2	3'-3 1/2	2	x5x	H270-50 F2	6/23
15	PL	24 1/2 x 1 1/2	3'-4 1/2	2	x5ak	H270-50 F2	6/23
16	PL	24 1/2 x 1 1/2	3'-3 1/2	2	x5ax	H270-50 F2	6/23
17	PL	40 x 1	11'-10 1/4	2	x6k	H270-50 F2	6/16
18	PL	40 x 1	11'-10 1/4	2	x6x	H270-50 F2	6/16
19	PL	16 1/2 x 3	1'-7	4	x7g	H270-50 F2	6/20
20	PL	3 1/2 x 1/2	6	6	x7bb	H270-50	1/19
21							
22	CAP SCREW	3/8"	1 1/2	16	A574		NO NUTS SOCKET HEAD 9/12
23	WASH	3/8"		16	F844		9/15
24	STUD	7/8"	8	760	A108		9/3
25							
26	CABLE FRAME			1	BB		ALIKE EXCEPT FOR NO. 1 20
27	CABLE FRAME			1	DB		11899
28	PL	32 x 1	12'-10	4	x1m	H270-50 F2	6/17
29	PL	13 1/2 x 1 1/2	1'-3 1/2	2	x1bk	H270-50 F2	6/24
30	PL	13 1/2 x 1 1/2	1'-3 1/2	2	x1bx	H270-50 F2	6/24
31	PL	14 x 1 1/2	1'-3 1/2	2	x1ck	H270-50 F2	6/24
32	PL	13 1/2 x 1 1/2	1'-4 1/2	2	x1cx	H270-50 F2	6/24
33	PL	42 x 1	12'-10	2	x3k	H270-50 F2	6/18
34	PL	22 1/2 x 1 1/2	3'-6 1/2	2	x4k	H270-50 F2	6/22
35	PL	22 1/2 x 1 1/2	3'-6 1/2	2	x4kk	H270-50 F2	6/22
36	PL	9 x 1	1'-0	4	x4bf	H270-50 F2	6/21
37	PL	25 1/2 x 1 1/2	3'-4 1/2	2	x5k	H270-50 F2	6/23
38	PL	25 1/2 x 1 1/2	3'-3 1/2	2	x5x	H270-50 F2	6/23
39	PL	24 1/2 x 1 1/2	3'-4 1/2	2	x5ak	H270-50 F2	6/23
40	PL	24 1/2 x 1 1/2	3'-3 1/2	2	x5ax	H270-50 F2	6/23
41	PL	40 x 1	11'-10 1/4	2	x6k	H270-50 F2	6/16
42	PL	40 x 1	11'-10 1/4	2	x6x	H270-50 F2	6/16
43	PL	16 1/2 x 3	1'-7	4	x7g	H270-50 F2	6/20
44	PL	3 1/2 x 1/2	6	6	x7bb	H270-50	1/19
45							
46	CAP SCREW	3/8"	1 1/2	16	A574		NO NUTS SOCKET HEAD 9/12
47	WASH	3/8"		16	F844		9/15
48	STUD	7/8"	8	760	A108		9/3
49							
50							
51							
52							
53							
54							
55							

**CABLE FRAMES #8**

**VINCENNES STEEL CORP.**  
VINCENNES, IND.

Drawn	Checked	Approved	Revised
RB	TRM		RB/TRM
9/29/98	10/20/98		11/19/98

U.S. 231 OVER THE OHIO RIVER AND INDIANA 66  
KENTUCKY D.O.H. / INDIANA D.O.T.  
BRIVESS COUNTY, KY / SPENCER COUNTY, IND  
PROJ. 00KBB DDIDI DDJ

Shop Print SEE GNI

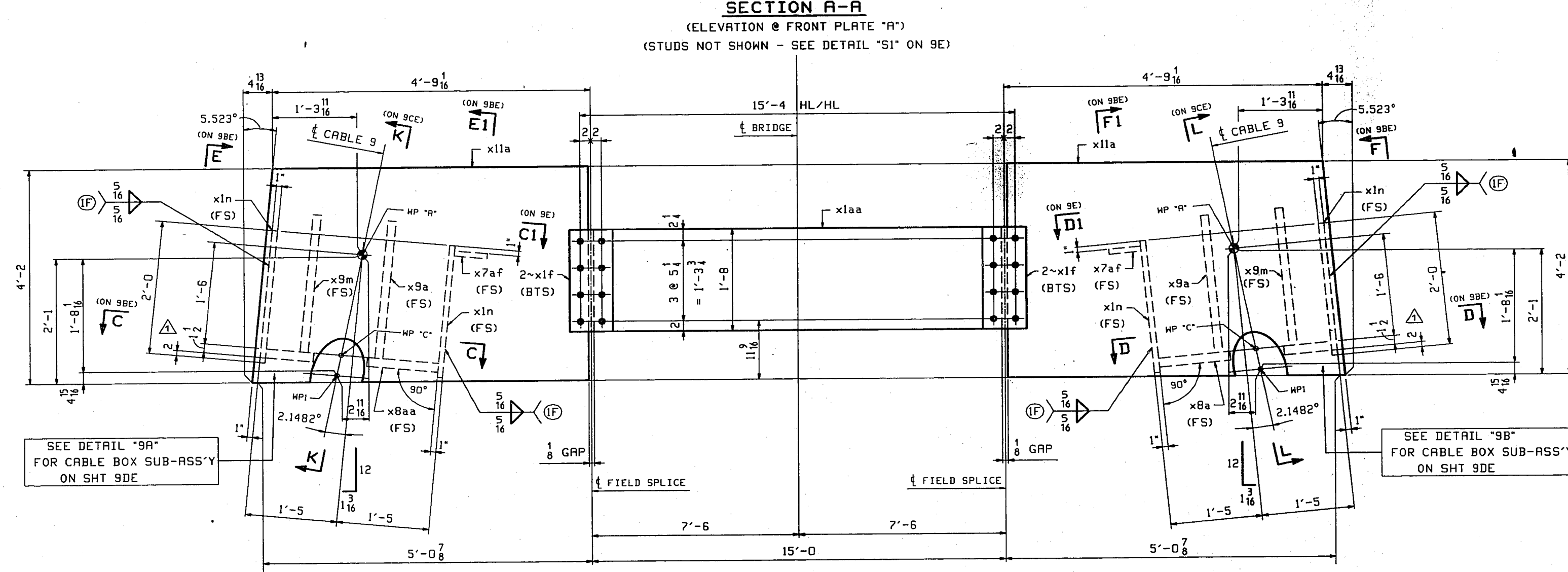
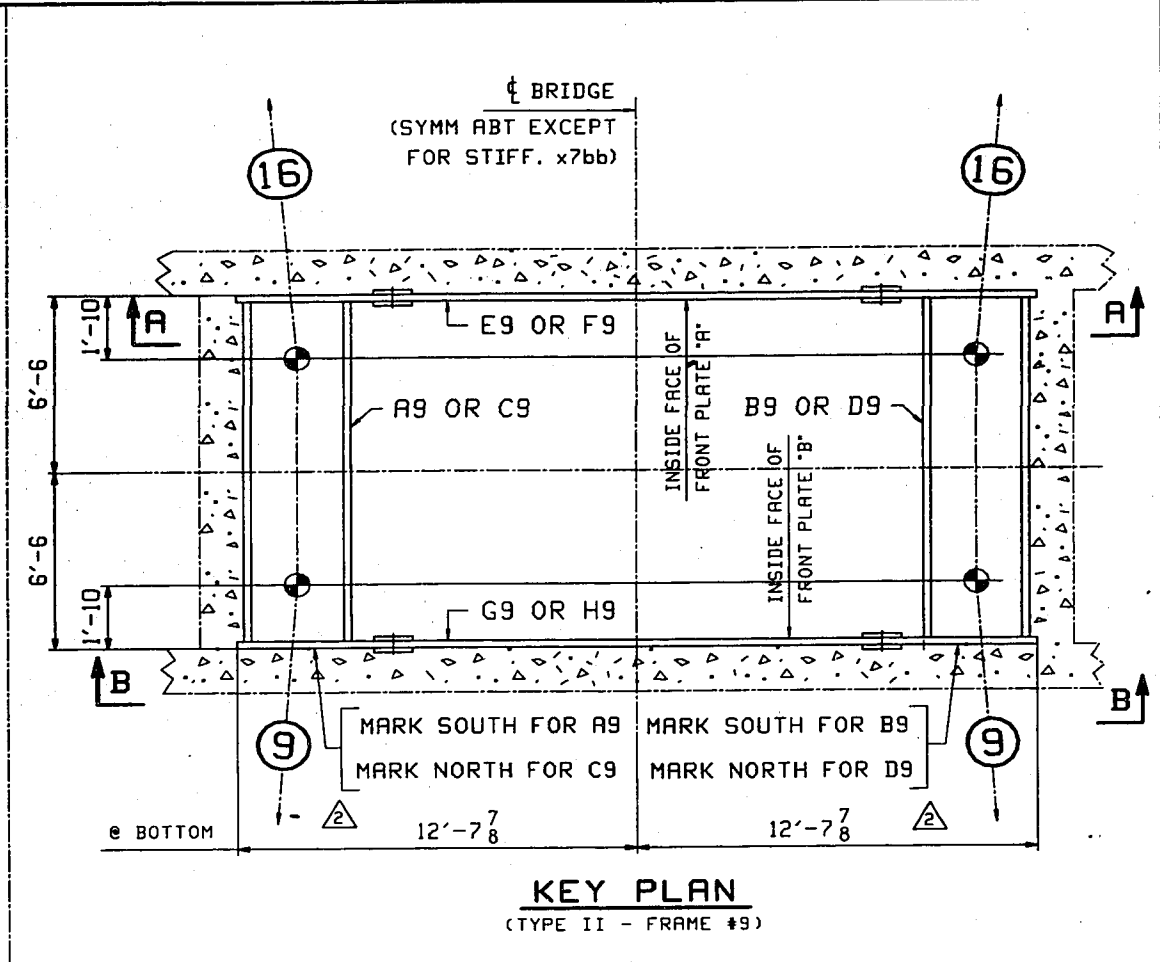
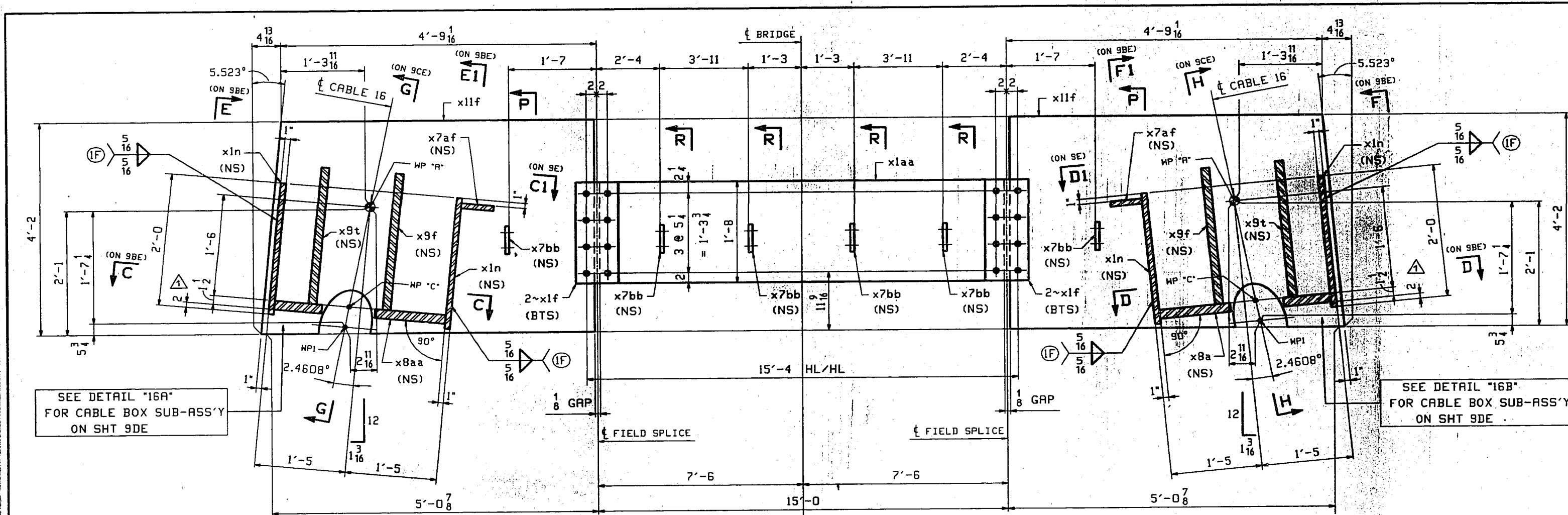
Edge Distance AS NOTED Holes 12" - Ø (UN)

Contr. No. **671** Sh. BE of

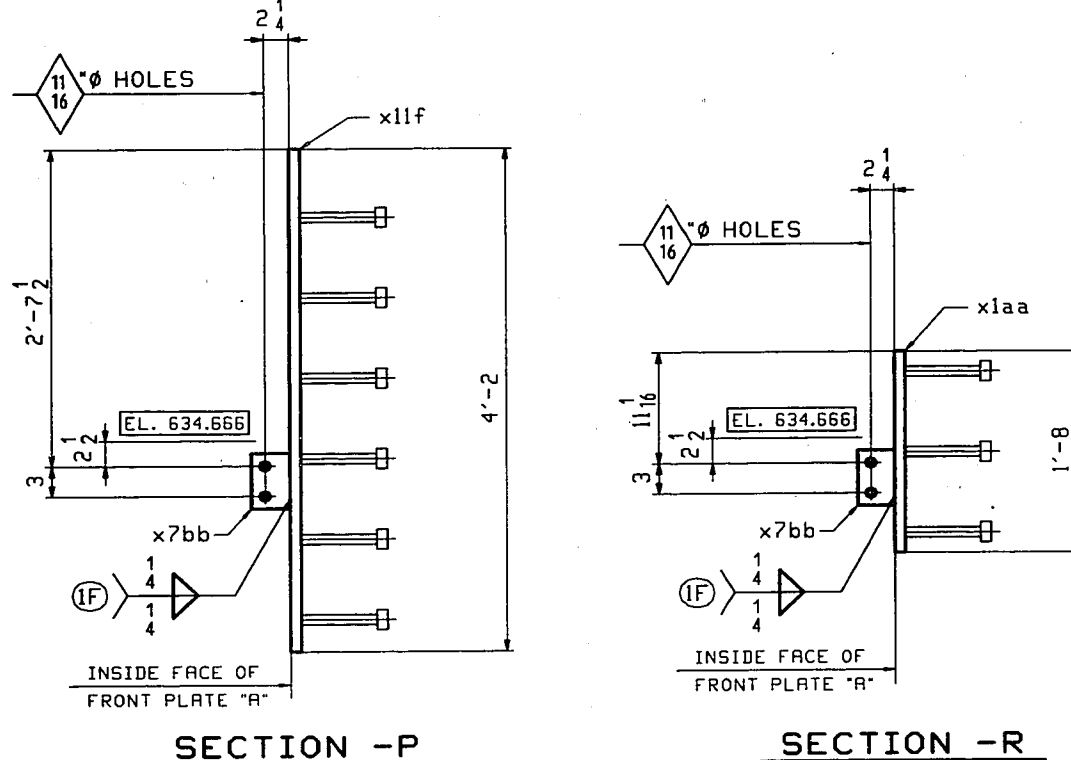
WORK THIS SHEET WITH SHEET BAE, BBE, BCE & BDE.

TENSOR 1821-1





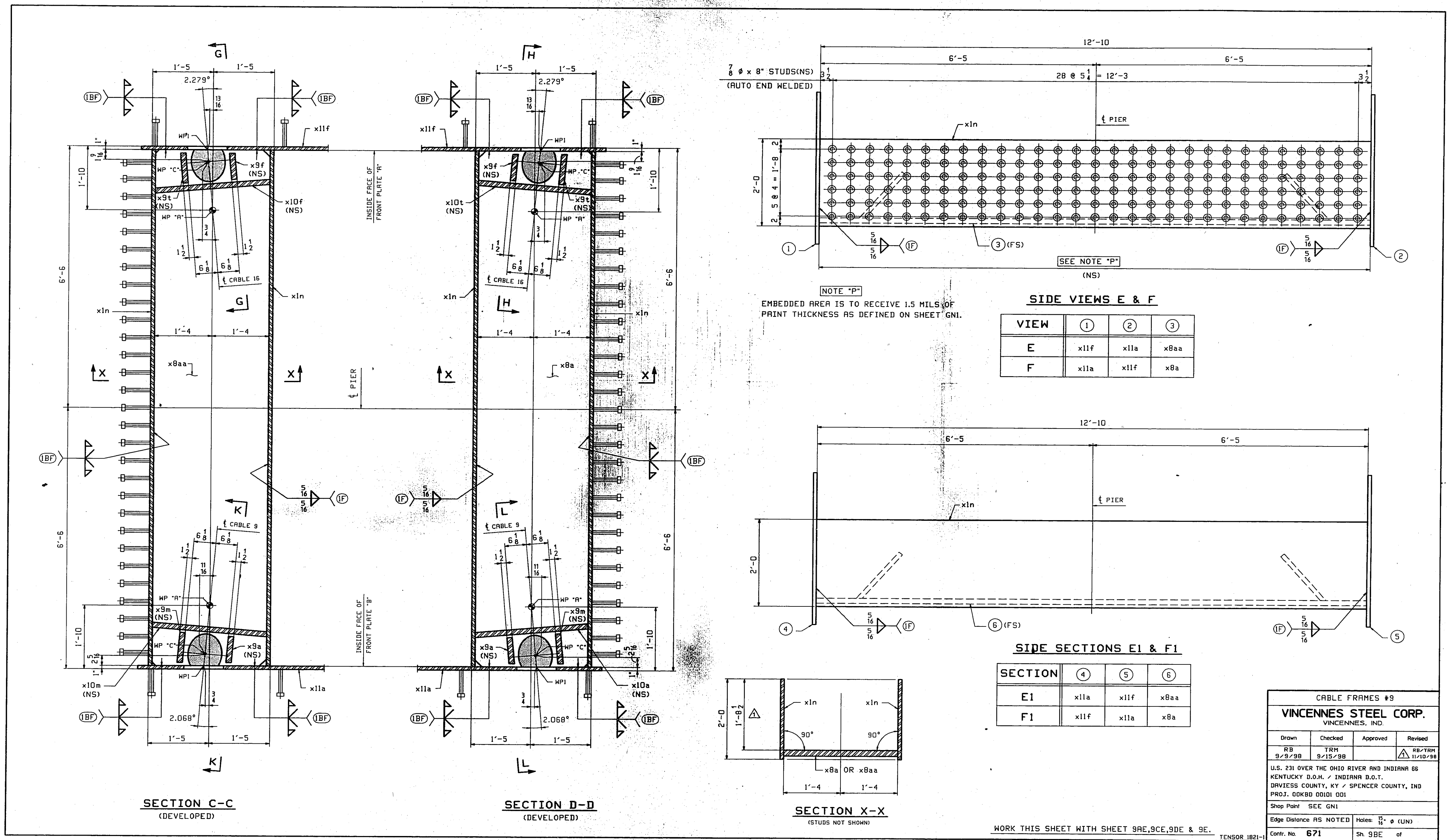
- ONE ~ CABLE FRAME ~ A9 (FRAME #9 @ PIER B) ALIKE EXCEPT FOR MARK & DR
- ONE ~ CABLE FRAME ~ B9 (FRAME #9 @ PIER B) ALIKE EXCEPT FOR MARK & DR
- ONE ~ CABLE FRAME ~ C9 (FRAME #9 @ PIER C) ALIKE EXCEPT FOR MARK & DR
- ONE ~ CABLE FRAME ~ D9 (FRAME #9 @ PIER C) ALIKE EXCEPT FOR MARK & DR
- ONE ~ TIE PLATE ~ E9 (FRAME #9 @ PIER B) ALIKE EXCEPT FOR MARK & DR
- ONE ~ TIE PLATE ~ G9 (FRAME #9 @ PIER B) ALIKE EXCEPT FOR MARK & DR
- ONE ~ TIE PLATE ~ F9 (FRAME #9 @ PIER C) ALIKE EXCEPT FOR MARK & DR
- ONE ~ TIE PLATE ~ H9 (FRAME #9 @ PIER C) ALIKE EXCEPT FOR MARK & DR



- NOTES:**
- FOR CABLE FRAME STANDARD DETAILS SEE SHT. X1, X7-X11.
  - FOR GENERAL NOTES SEE SHEET GNI.
  - ALL MATERIAL TO BE M270 GR50 (FCM) (UN). (FCM - DENOTES FRACTURE CRITICAL MATERIAL)
  - ALL HOLES TO BE (DR)(UN).
  - BTS = BOLT TO SHIP.

CABLE FRAMES #9			
VINCENNES STEEL CORP.			
VINCENNES, IND.			
Drawn	Checked	Approved	Revised
RB	TRM		RB/TRM
9/9/98	9/15/98		12/22/98
U.S. 231 OVER THE OHIO RIVER AND INDIANA 66			
KENTUCKY D.O.M. / INDIANA D.O.T.			
DAVIESS COUNTY, KY / SPENCER COUNTY, IND			
PROJ. 00KBB 0001 001			
Shop Point SEE GNI			
Edge Distance AS NOTED		Holes: 1/4" φ (UN)	
Contr. No. 671		Sh. 9AE of 60	

WORK THIS SHEET WITH SHEET 9BE,9CE,9DE & 9E. TENSOR 1821-1



CABLE FRAMES #9

**VINCENNES STEEL CORP.**  
VINCENNES, IND.

Drawn	Checked	Approved	Revised
RB	TRM		RB/TRM
9/9/98	9/15/98		11/10/98

U.S. 231 OVER THE OHIO RIVER AND INDIANA 66  
KENTUCKY D.O.H. / INDIANA D.O.T.  
DAVIESS COUNTY, KY / SPENCER COUNTY, IND  
PROJ. 00K98 0001 001

Shop Part: SEE GNI

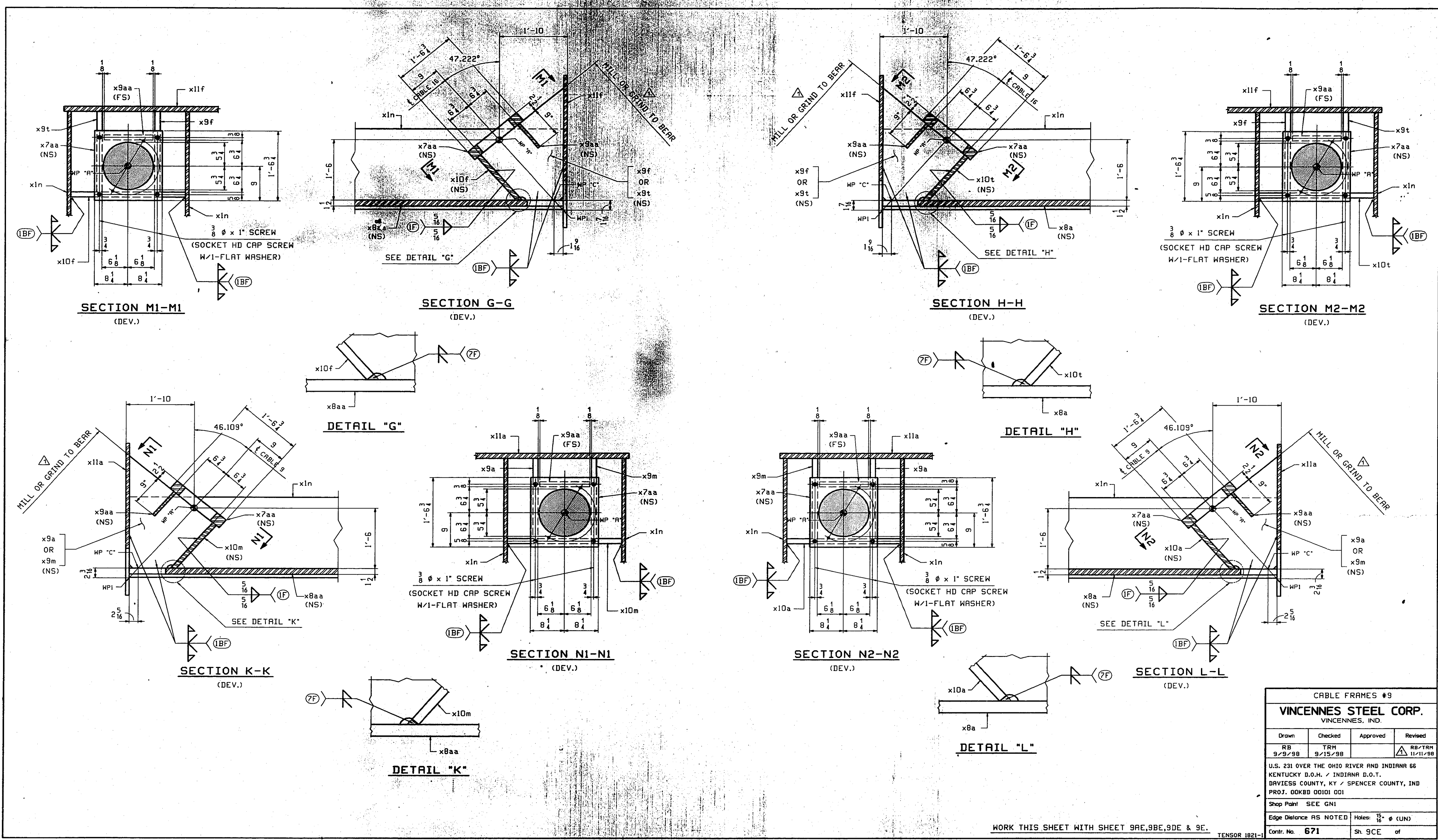
Edge Distance: AS NOTED

Notes: 1/2" φ (LUN)

Contr. No. 671

Sh. 98E of 61

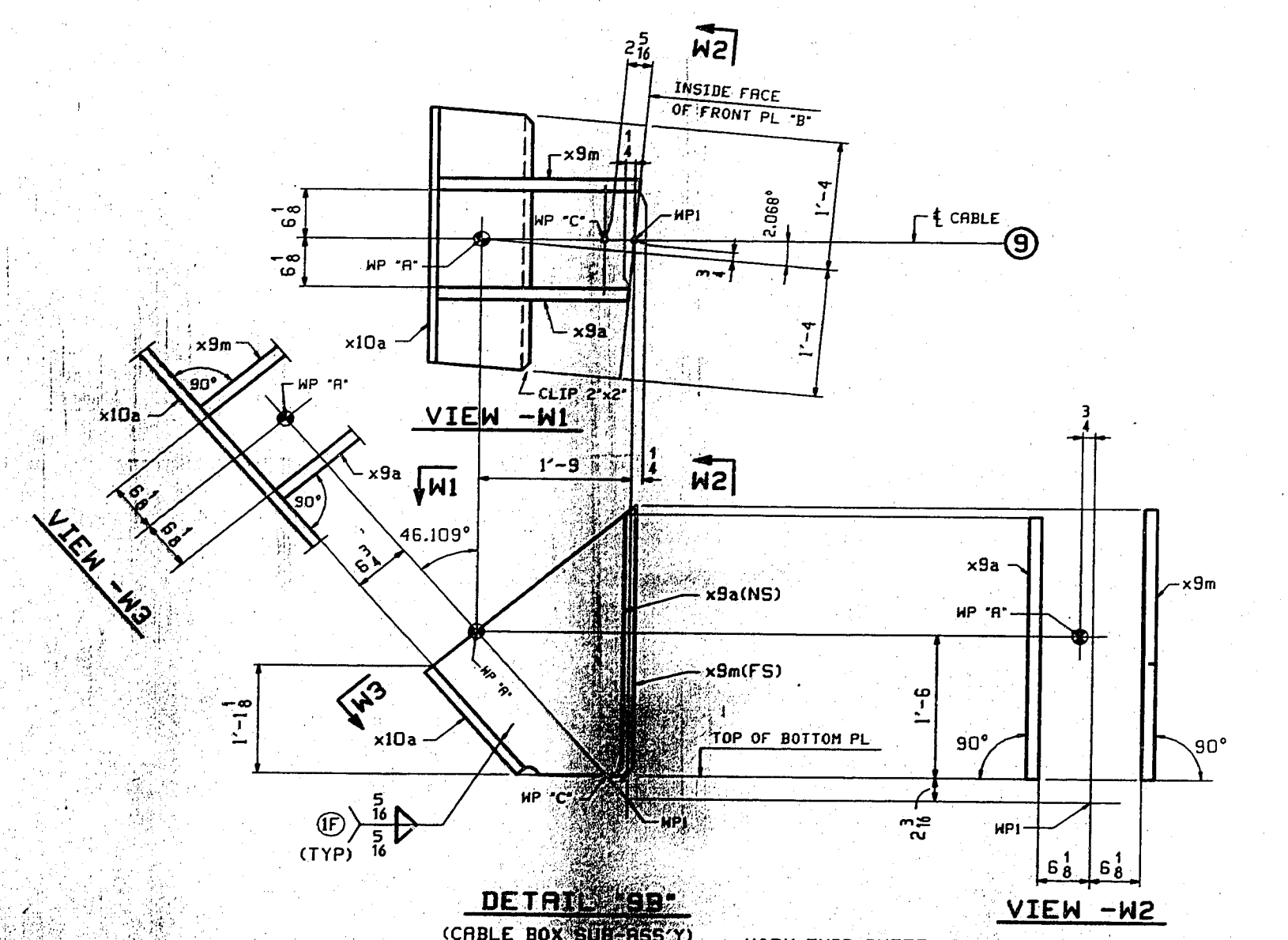
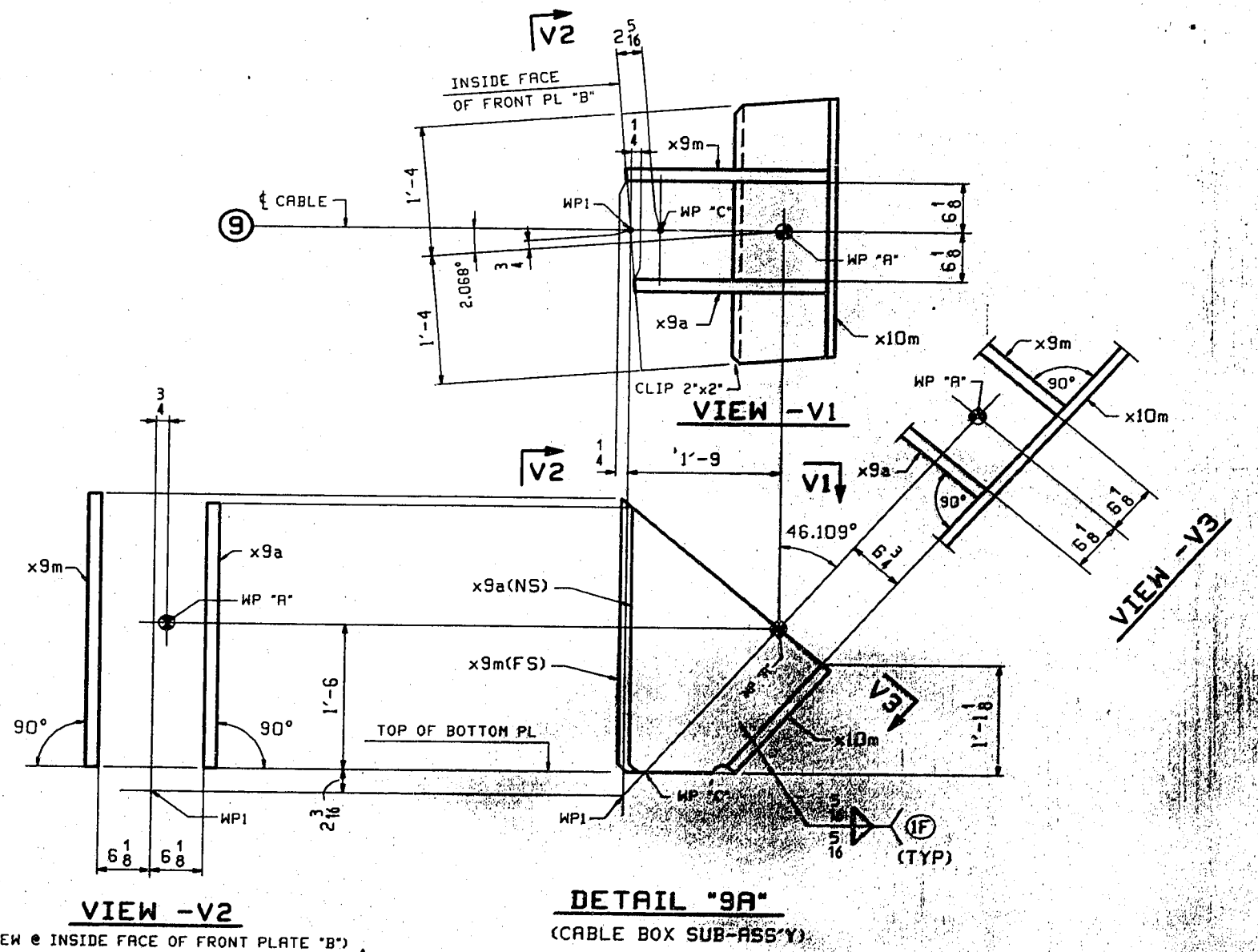
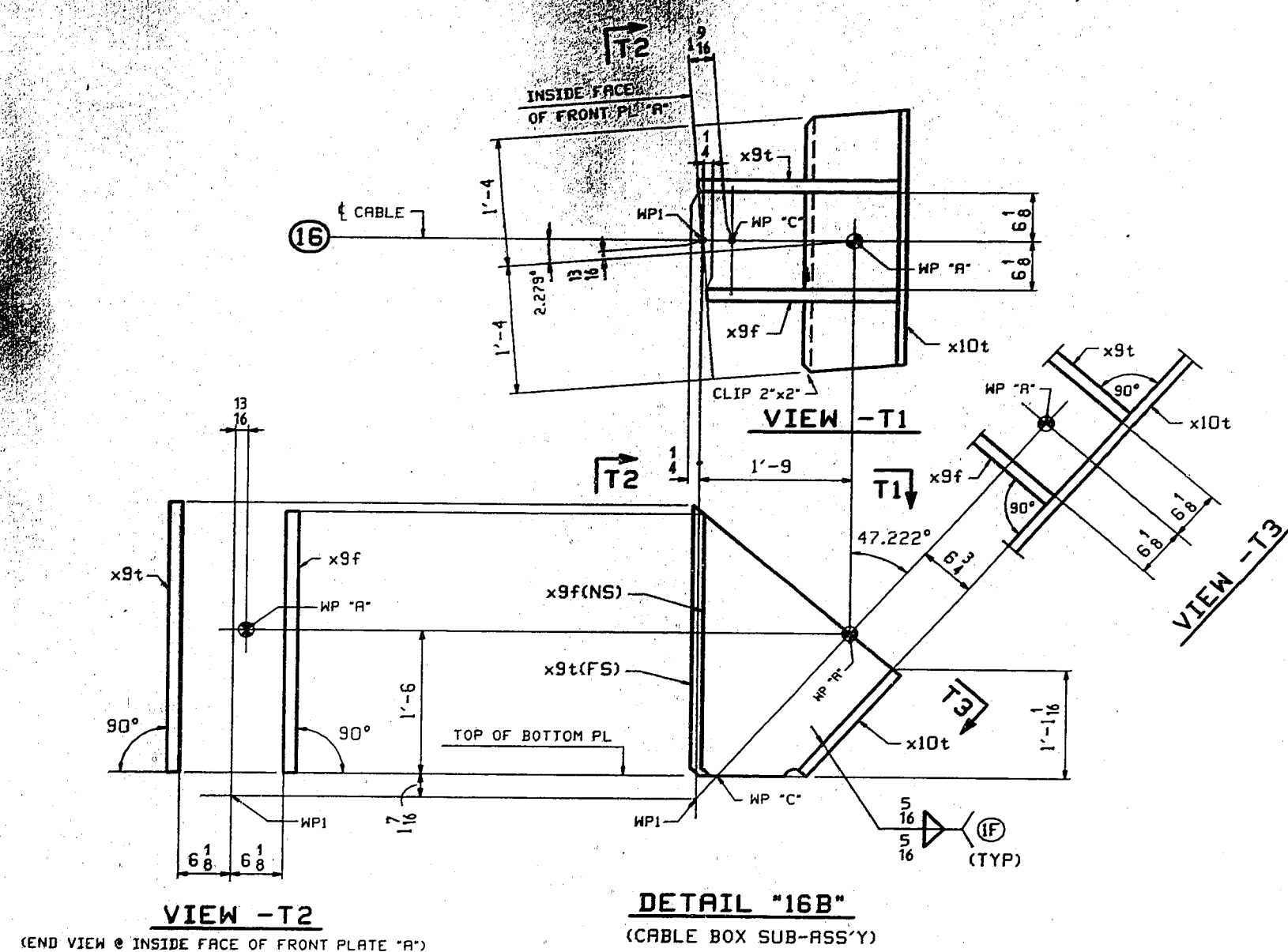
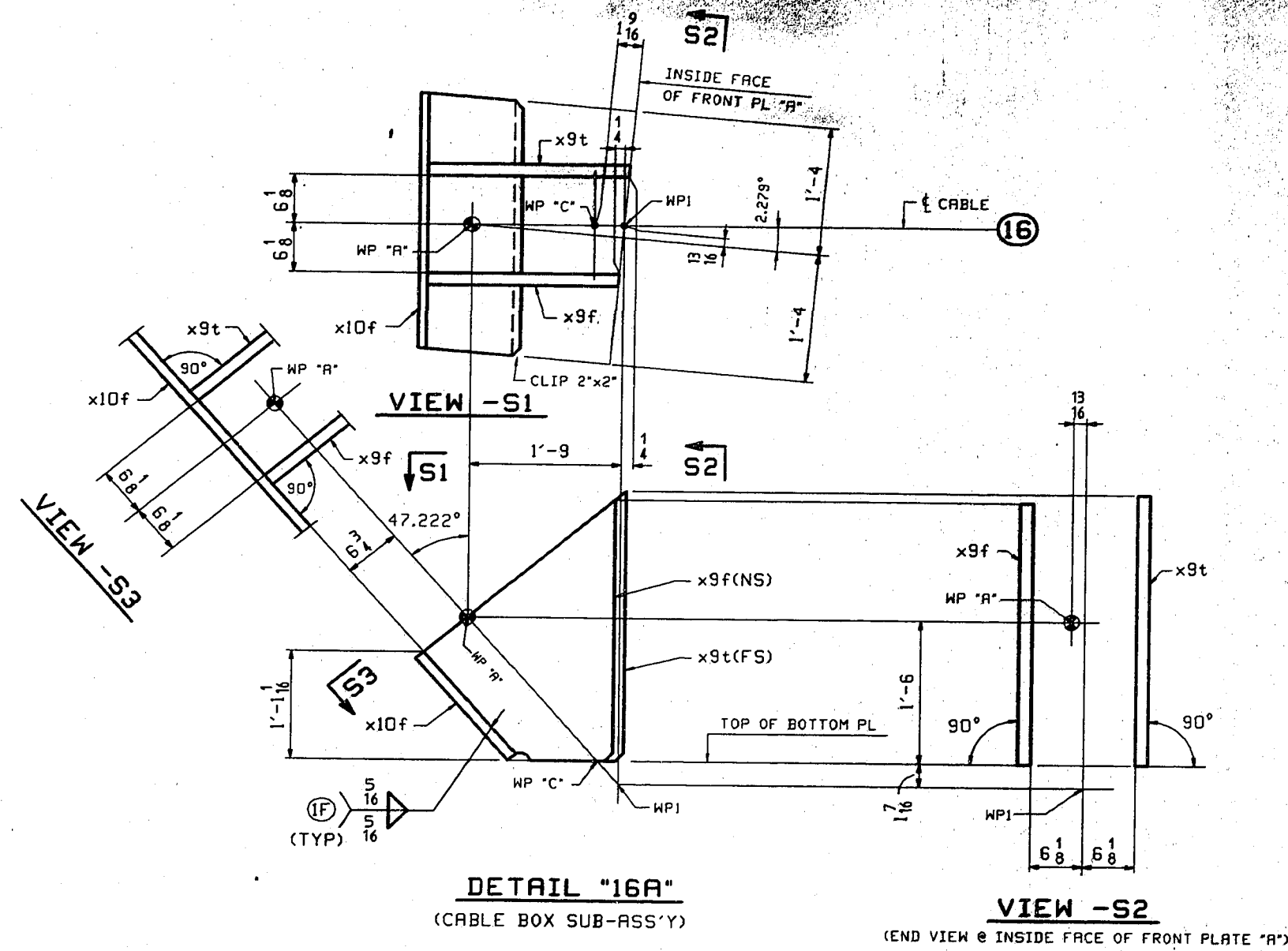




WORK THIS SHEET WITH SHEET 9A, 9B, 9D & 9E.

CABLE FRAMES #9			
VINCENNES STEEL CORP. VINCENNES, IND.			
Drawn	Checked	Approved	Revised
RB	TRM		RB/TRM
9/9/98	9/15/98		11/11/98
U.S. 231 OVER THE OHIO RIVER AND INDIANA 66 KENTUCKY D.O.H. / INDIANA D.O.T. BAYLESS COUNTY, KY / SPENCER COUNTY, IND PROJ. 00K88 00101 001			
Shop Print SEE G01			
Edge Distance AS NOTED		Holes: 1/8" Ø (UN)	
Contr. No. 671		Sh. SCE of	

TENSOR 1821-1



CABLE FRAMES #8

**VINCENNES STEEL CORP.**  
VINCENNES, IND.

Drawn	Checked	Approved	Revised
RB	TRH		
9/17/98	10/8/98		

U.S. 231 OVER THE OHIO RIVER AND INDIANA 66  
KENTUCKY D.O.H. / INDIANA D.O.T.  
DAVLESS COUNTY, KY / SPENCER COUNTY, IND  
PROJ. 00KBB 0001 001

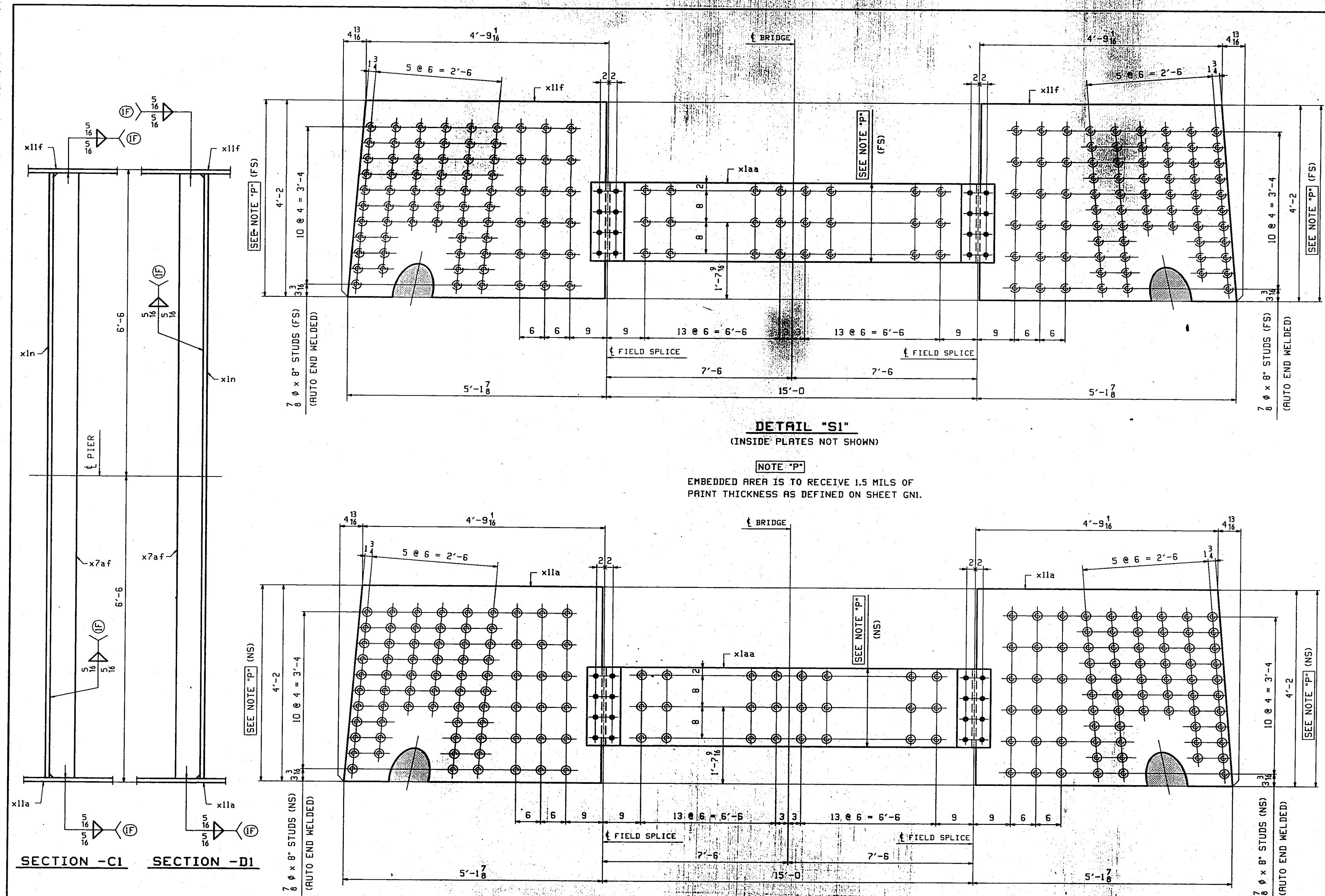
Shop Print SEE GNI

Edge Distance AS NOTED Notes: 1/8" (UN)

Contr. No. 671 Sh. 9DE of

TENSOR 1821-





BILL OF MATERIAL						
LN	KIND	SECTION	LENGTH	REQ. MARK	GRADE	REMARKS
1	CABLE FRAME			1 A9		ALIKE EXCEPT FOR M.S. 9335
2	CABLE FRAME			1 C9		9335
3	PL	24 x 1	12'-10"	4 x1n	M270-50 F2	7/3
4	PL	16 1/2 x 2 1/2	1'-6 1/2"	4 x7aa	M270-50 F2	7/8
5	PL	6 x 1	12'-10"	2 x7af	M270-50 F2	7/10
6	PL	3 1/2 x 3	6	2 x7bb	M270-50	7/10
7	PL	32 x 1 1/2	12'-10"	2 x8aa	M270-50 F2	7/8
8	PL	25 1/2 x 1 1/2	3'-3 3/8"	2 x9a	M270-50 F2	7/12
9	PL	25 1/2 x 1 1/2	3'-4 1/8"	2 x9f	M270-50 F2	7/12
10	PL	25 1/2 x 1 1/2	3'-4 1/8"	2 x9m	M270-50 F2	7/12
11	PL	25 1/2 x 1 1/2	3'-5"	2 x9t	M270-50 F2	7/12
12	PL	9 x 1	1'-0"	4 x9aa	M270-50 F2	7/8
13	PL	17 1/2 x 1 1/2	2'-8 1/2"	2 x10f	M270-50 F2	7/11
14	PL	17 1/2 x 1 1/2	2'-8 1/2"	2 x10m	M270-50 F2	7/11
15	PL	50 x 1	5'-1 1/2"	2 x11a	M270-50 F2	7/3
16	PL	50 x 1	5'-1 1/2"	2 x11f	M270-50 F2	7/3
17	SCREW	3/8"	1	16	M574	NO NUTS SOCKET HEAD
18	WASH	3/8"	16		F844	8/15
19	STUD	3/8"	8	648	R108	8/3
20						
21						
22	CABLE FRAME			1 B9		ALIKE EXCEPT FOR M.S. 9335
23	CABLE FRAME			1 D9		9335
24	PL	24 x 1	12'-10"	4 x1n	M270-50 F2	7/3
25	PL	16 1/2 x 2 1/2	1'-6 1/2"	4 x7aa	M270-50 F2	7/8
26	PL	6 x 1	12'-10"	2 x7af	M270-50 F2	7/10
27	PL	3 1/2 x 3	6	2 x7bb	M270-50	7/10
28	PL	32 x 1 1/2	12'-10"	2 x8aa	M270-50 F2	7/8
29	PL	25 1/2 x 1 1/2	3'-3 3/8"	2 x9a	M270-50 F2	7/12
30	PL	25 1/2 x 1 1/2	3'-4 1/8"	2 x9f	M270-50 F2	7/12
31	PL	25 1/2 x 1 1/2	3'-4 1/8"	2 x9m	M270-50 F2	7/12
32	PL	25 1/2 x 1 1/2	3'-5"	2 x9t	M270-50 F2	7/12
33	PL	9 x 1	1'-0"	4 x9aa	M270-50 F2	7/8
34	PL	17 1/2 x 1 1/2	2'-8 1/2"	2 x10a	M270-50 F2	7/11
35	PL	17 1/2 x 1 1/2	2'-8 1/2"	2 x10t	M270-50 F2	7/11
36	PL	50 x 1	5'-1 1/2"	2 x11a	M270-50 F2	7/3
37	PL	50 x 1	5'-1 1/2"	2 x11f	M270-50 F2	7/3
38	SCREW	3/8"	1	16	M574	NO NUTS SOCKET HEAD
39	WASH	3/8"	16		F844	8/15
40	STUD	3/8"	8	648	R108	8/3
41						
42						
43	TIE PLATE			1 E9		ALIKE EXCEPT FOR M.S. 1247
44	TIE PLATE			1 F9		1247
45	PL	20 x 1	8	8 x1f	M270-50 F2	7/7
46	PL	20 x 1	14'-11 1/2"	2 x1aa	M270-50 F2	7/4
47	PL	3 1/2 x 2	6	8 x7bb	M270-50	7/10
48	STUD	3/8"	8	158	R108	8/3
49						
50						
51	TIE PLATE			1 G9		ALIKE EXCEPT FOR M.S. 1235
52	TIE PLATE			1 H9		1235
53	PL	20 x 1	8	8 x1f	M270-50 F2	7/7
54	PL	20 x 1	14'-11 1/2"	2 x1aa	M270-50 F2	7/4
55	STUD	3/8"	8	158	R108	8/3

**CABLE FRAMES #9**  
**VINCENNES STEEL CORP.**  
VINCENNES, IND.

Drawn	Checked	Approved	Revised
RB	TRM		
9/9/98	9/15/98		

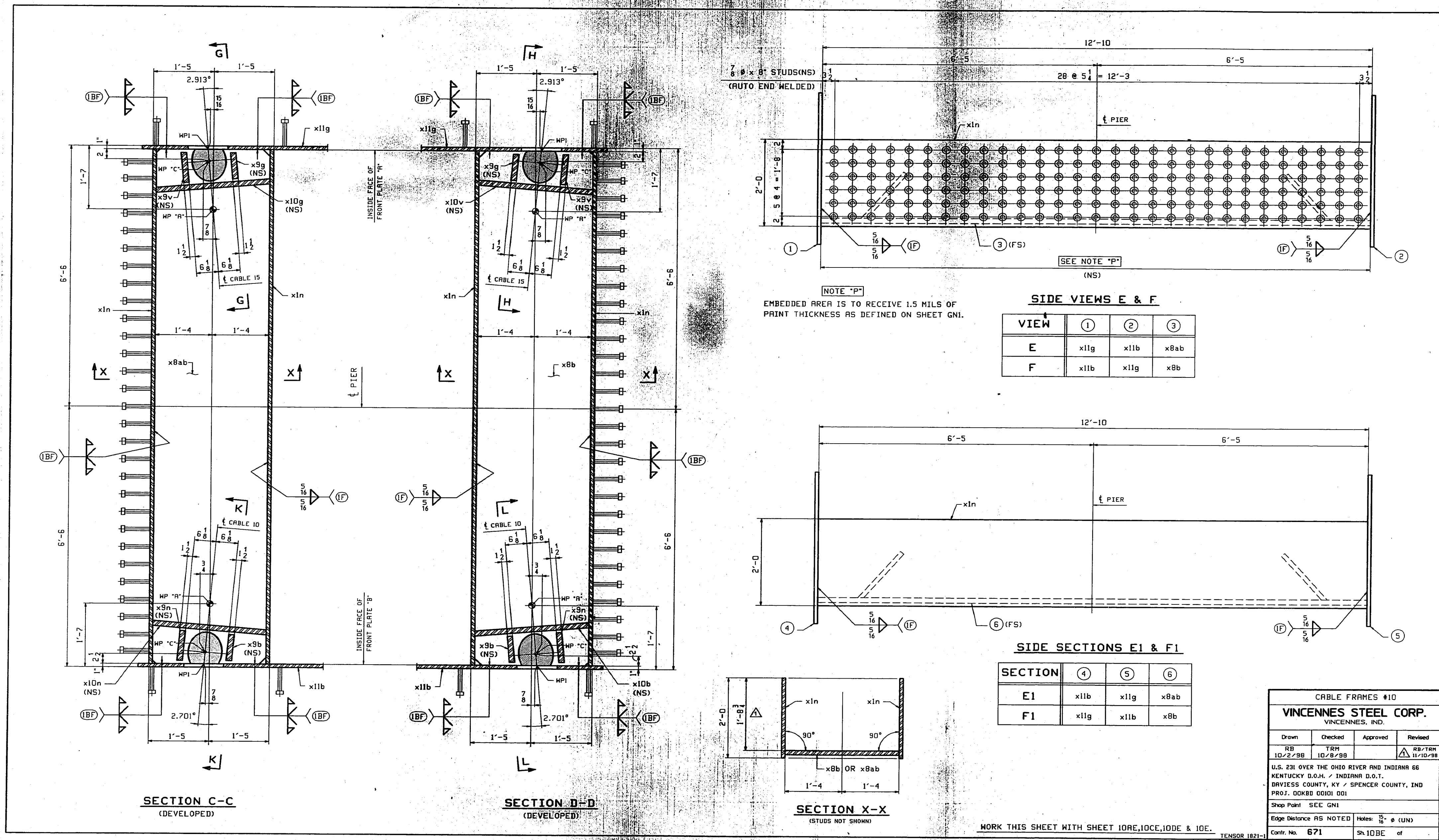
U.S. 231 OVER THE OHIO RIVER AND INDIANA 68  
KENTUCKY D.O.M. / INDIANA D.O.T.  
DAVIESS COUNTY, KY / SPENCER COUNTY, IND  
PROJ. OOKBD 00101 001

Shop Print SEE GNI  
Edge Distance AS NOTED Notes: 15/16" (UN)  
Contr. No. 671 Sh. 9C of 64

WORK THIS SHEET WITH SHEET 99E,99E,99E & 99E. TENSOR 1821-1







**CABLE FRAMES #10**

**VINCENNES STEEL CORP.**  
VINCENNES, IND.

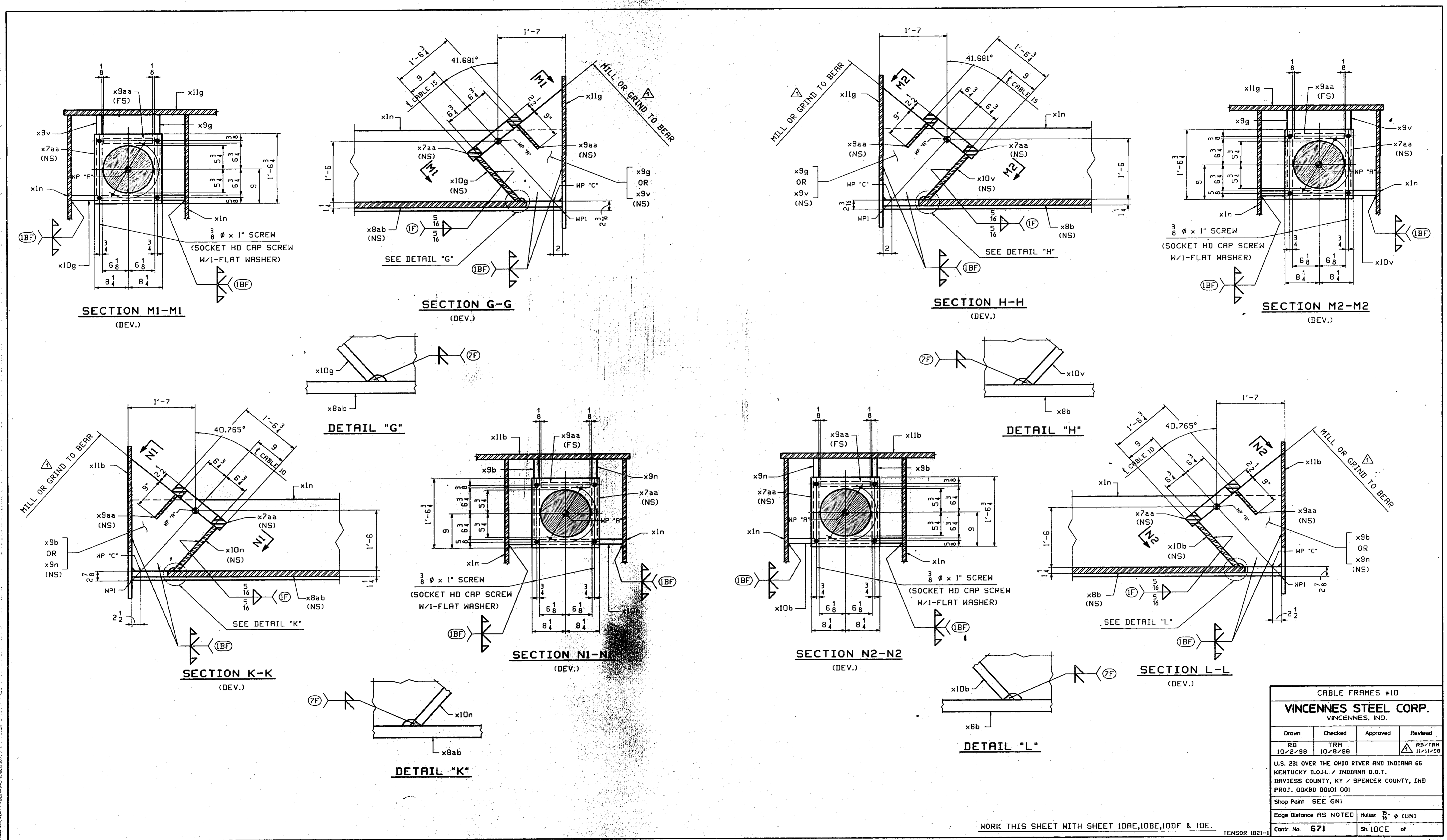
Drawn	Checked	Approved	Reviewed
RB	TRM		RB/TRM
10/2/98	10/8/98		11/10/98

U.S. 231 OVER THE OHIO RIVER AND INDIANA 66  
KENTUCKY D.O.H. / INDIANA D.O.T.  
DAVIESS COUNTY, KY / SPENCER COUNTY, IND  
PROJ. 00K88 00101 001

Shop Point SEE GNI

Edge Distance AS NOTED Notes: 5/16" (UN)

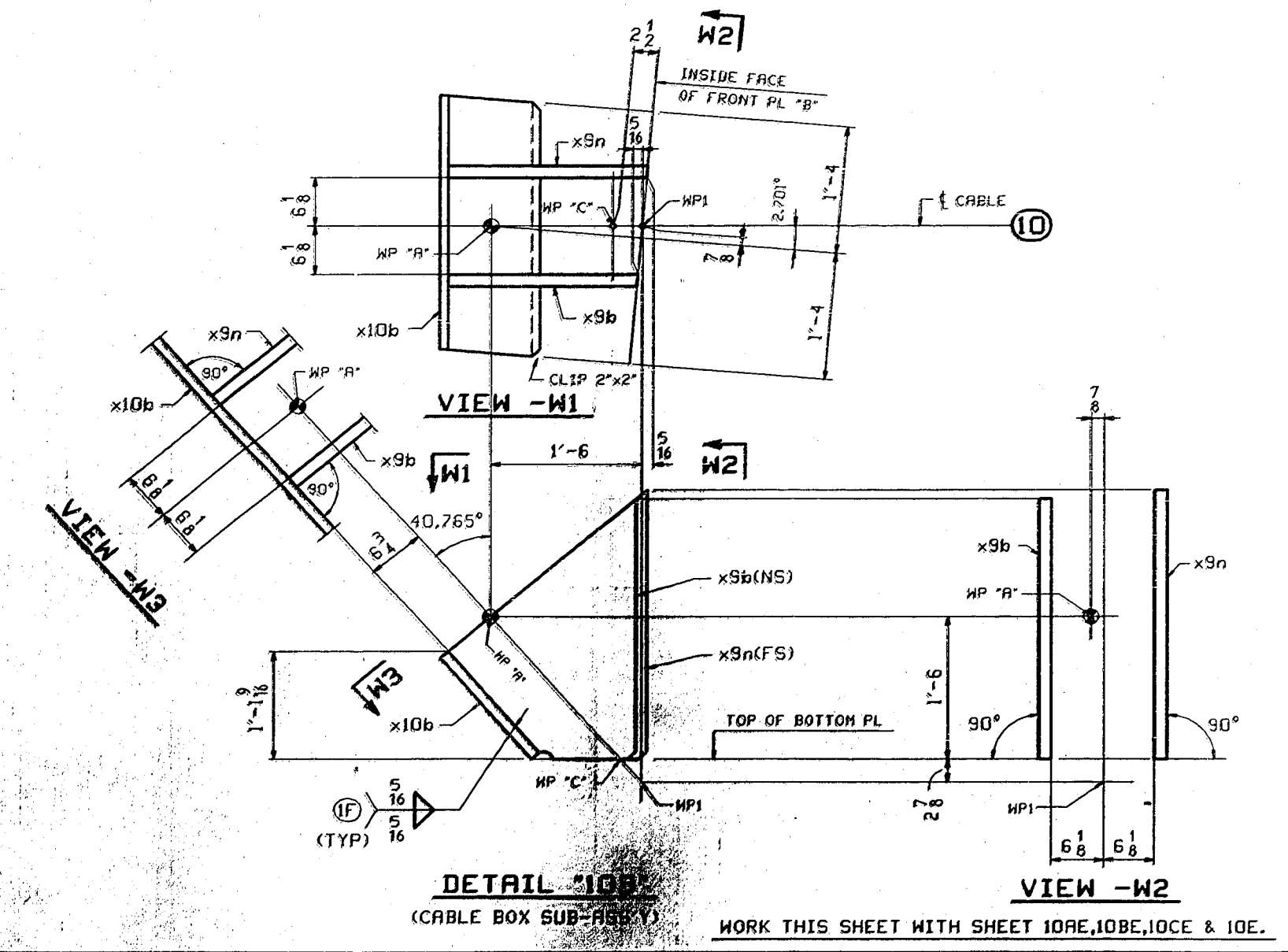
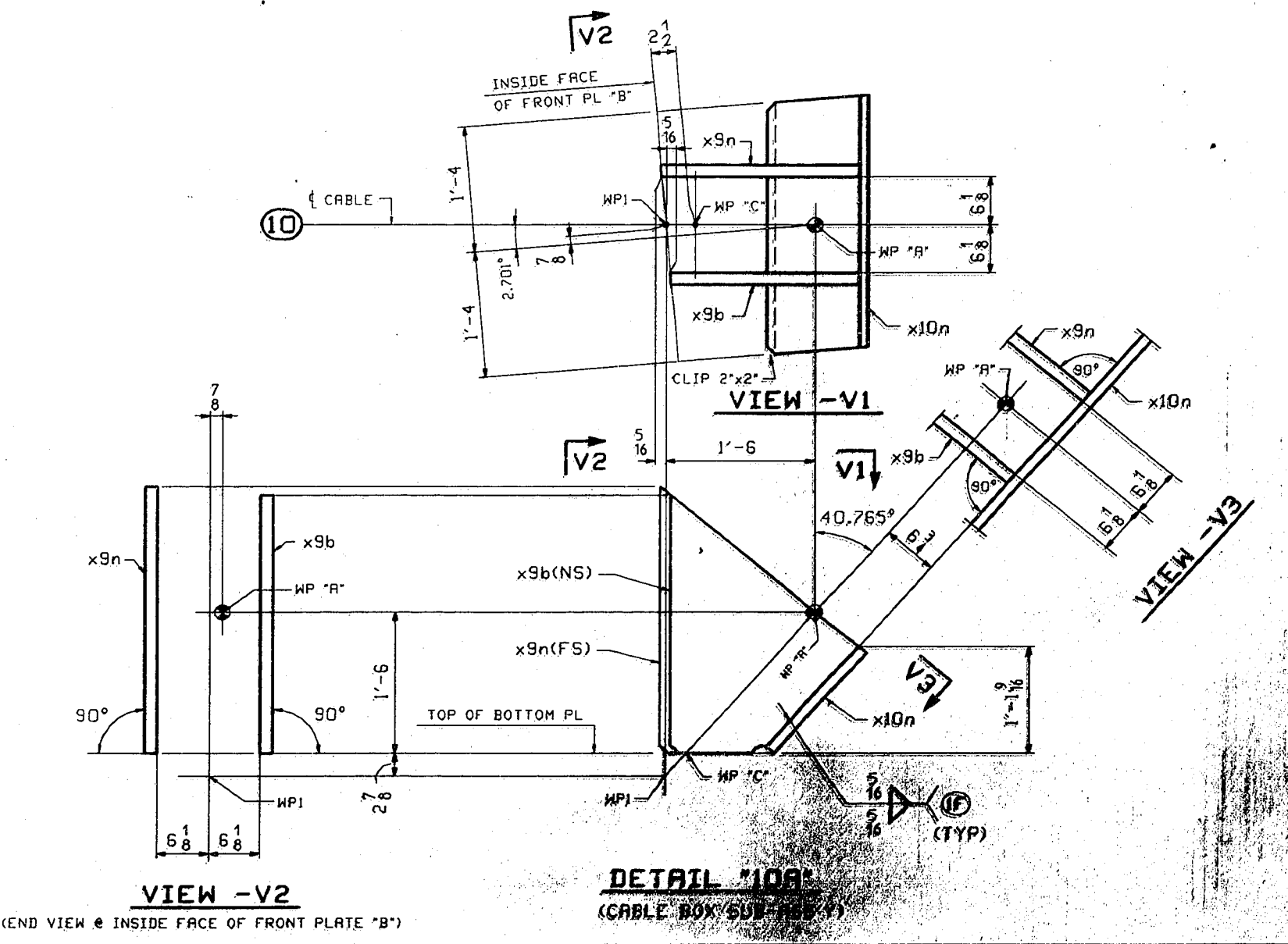
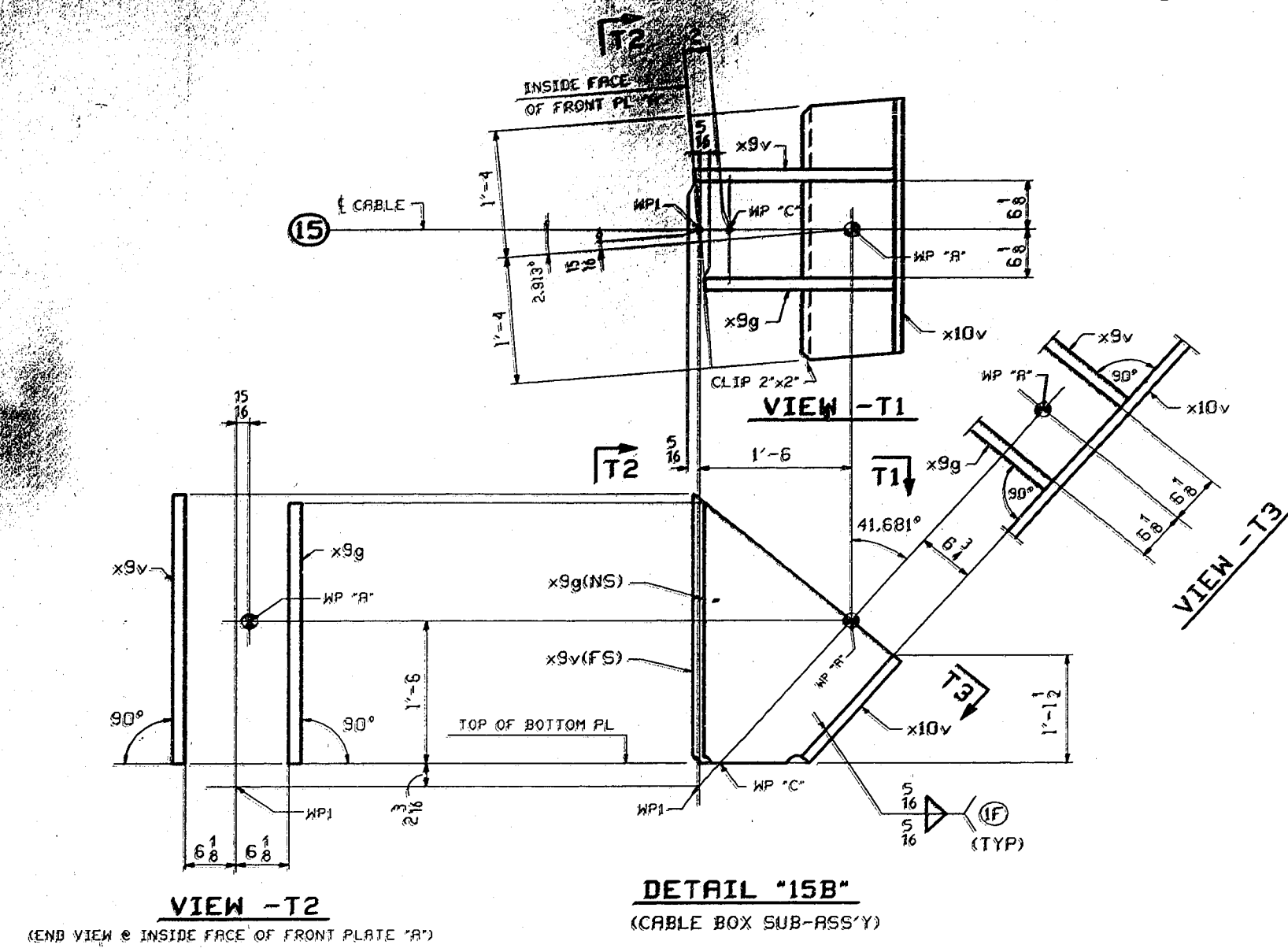
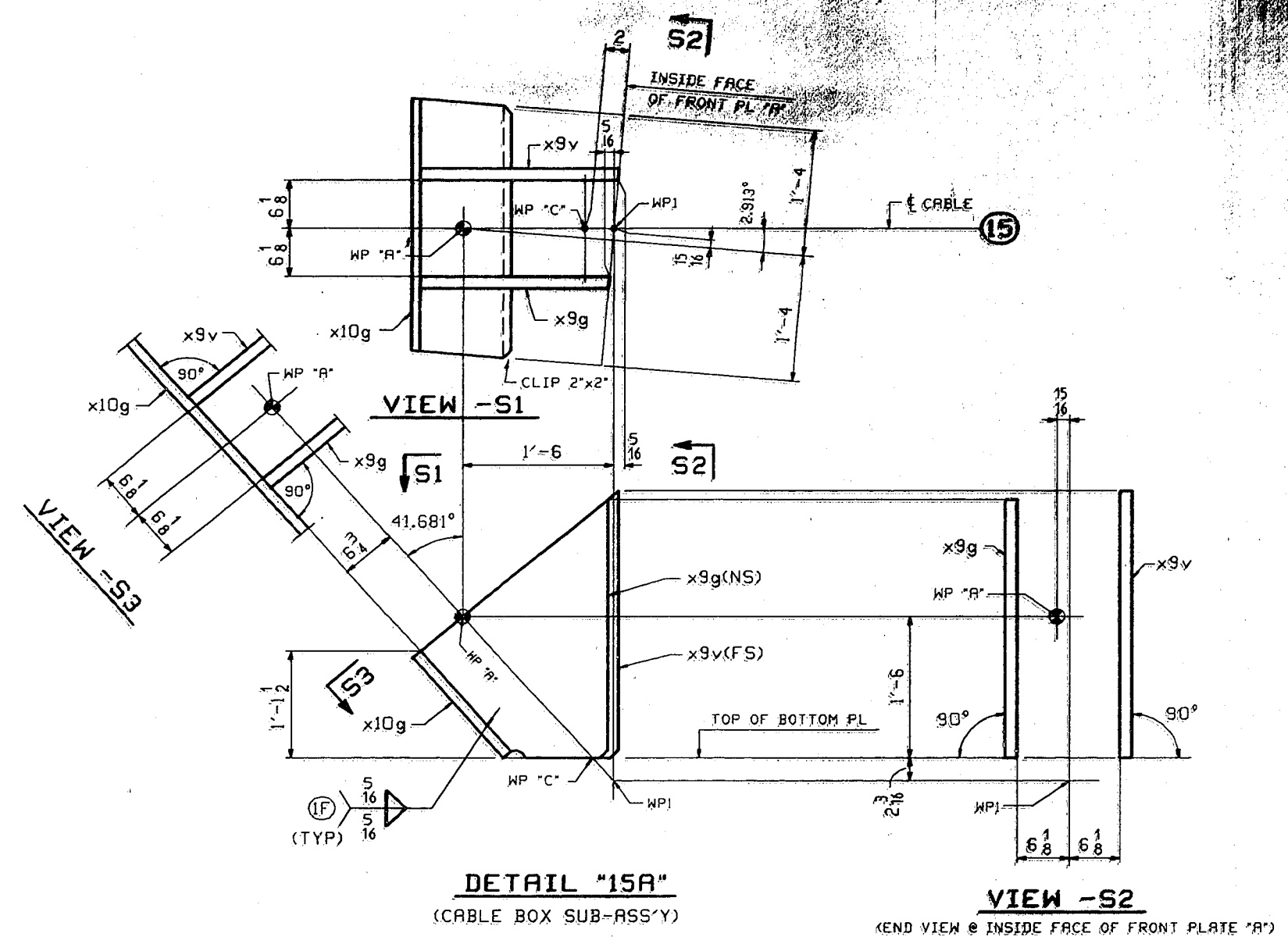
Contr. No. 671 Sh. 10BE of 66



WORK THIS SHEET WITH SHEET 10AE, 10BE, 10DE & 10E.

CABLE FRAMES #10			
VINCENNES STEEL CORP.			
VINCENNES, IND.			
Drawn	Checked	Approved	Revised
RB	TRM		RB/TRM
10/21/88	10/21/88		11/17/88
U.S. 231 OVER THE OHIO RIVER AND INDIANA 66			
KENTUCKY D.O.H. / INDIANA D.O.T.			
DAVIESS COUNTY, KY / SPENCER COUNTY, IND			
PROJ. 00KBD 00101 001			
Shop Print SEE GNI			
Edge Distance AS NOTED		Holes: 15- $\frac{1}{16}$ $\phi$ (LUN)	
Contr. No. 671	SH 10CE		of





WORK THIS SHEET WITH SHEET 10A, 10B, 10C & 10E.

CABLE FRAMES #10

**VINCENNES STEEL CORP.**  
 VINCENNES, IND.

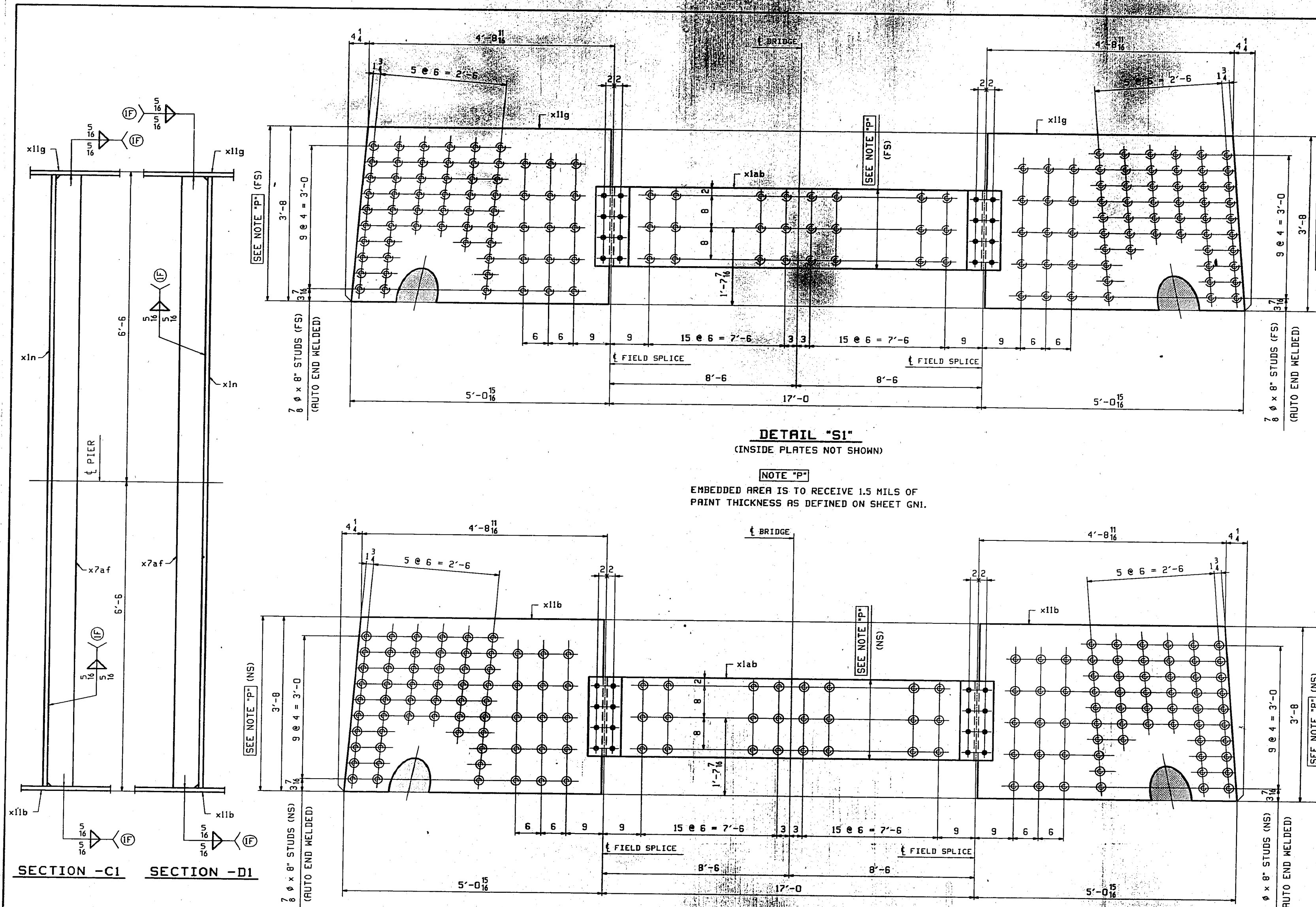
Drawn	Checked	Approved	Revised
RB	TRM		
10/2/98	10/2/98		

U.S. 231 OVER THE OHIO RIVER AND INDIANA 66  
 KENTUCKY D.O.H. / INDIANA D.O.T.  
 DAVIESS COUNTY, KY / SPENCER COUNTY, IND.  
 PROJ. DOKBD 00101 001

Shop Plans SEE GNI

Edge Distance AS NOTED Holes 15/16" # UNF

Conf. No. 671 Sh. 10DE of



BILL OF MATERIAL							
LN	KIND	SECTION	LENGTH	REQ.	MARK	GRADE	REMARKS
1	CABLE FRAME			1	A10		ALIKE EXCEPT FOR NO. & SH. 8271
2	CABLE FRAME			1	D10		ALIKE EXCEPT FOR NO. & SH. 8271
3	PL	24 x 1	12'-10"	4	x1n	M270-50 F2	7/18
4	PL	16 1/2 x 2 1/2	1'-6 1/2"	4	x7aa	M270-50 F2	7/23
5	PL	6 x 1	12'-10"	2	x7af	M270-50 F2	7/25
6	PL	3 1/2 x 1/2	6	2	x7bb	M270-50	1/18
7	PL	32 x 1 1/2	12'-10"	2	x8ab	M270-50 F2	7/20
8	PL	22 x 1 1/2	2'-9 1/2"	2	x8b	M270-50 F2	7/26
9	PL	23 1/2 x 1 1/2	2'-9 1/2"	2	x9g	M270-50 F2	7/26
10	PL	23 1/2 x 1 1/2	2'-9 1/2"	2	x9n	M270-50 F2	7/26
11	PL	23 1/2 x 1 1/2	2'-10 1/2"	2	x9v	M270-50 F2	7/26
12	PL	9 x 1/2	1'-0"	4	x9aa	M270-50 F2	7/24
13	PL	16 1/2 x 1 1/2	2'-8 1/2"	2	x10g	M270-50 F2	7/25
14	PL	16 1/2 x 1 1/2	2'-8 1/2"	2	x10n	M270-50 F2	7/25
15	PL	44 x 1	5'-0 1/2"	2	x11b	M270-50 F2	7/17
16	PL	44 x 1	5'-0 1/2"	2	x11g	M270-50 F2	7/17
17	WASHER	5/8"		16	A374		NO NOTE SOCKET HEAD 8/11
18	WASHER	5/8"		16	F844		8/15
19	STUD	5/8"		8	604	A108	8/3
20							
21	CABLE FRAME			1	B10		ALIKE EXCEPT FOR NO. & SH. 8271
22	CABLE FRAME			1	D10		ALIKE EXCEPT FOR NO. & SH. 8271
23	PL	24 x 1	12'-10"	4	x1n	M270-50 F2	7/18
24	PL	16 1/2 x 2 1/2	1'-6 1/2"	4	x7aa	M270-50 F2	7/23
25	PL	6 x 1	12'-10"	2	x7af	M270-50 F2	7/25
26	PL	3 1/2 x 1/2	6	2	x7bb	M270-50	1/18
27	PL	32 x 1 1/2	12'-10"	2	x8b	M270-50 F2	7/20
28	PL	22 x 1 1/2	2'-9 1/2"	2	x8b	M270-50 F2	7/26
29	PL	23 1/2 x 1 1/2	2'-9 1/2"	2	x9g	M270-50 F2	7/26
30	PL	23 1/2 x 1 1/2	2'-9 1/2"	2	x9n	M270-50 F2	7/26
31	PL	23 1/2 x 1 1/2	2'-10 1/2"	2	x9v	M270-50 F2	7/26
32	PL	9 x 1/2	1'-0"	4	x9aa	M270-50 F2	7/24
33	PL	16 1/2 x 1 1/2	2'-8 1/2"	2	x10b	M270-50 F2	7/25
34	PL	16 1/2 x 1 1/2	2'-8 1/2"	2	x10v	M270-50 F2	7/25
35	PL	44 x 1	5'-0 1/2"	2	x11b	M270-50 F2	7/17
36	PL	44 x 1	5'-0 1/2"	2	x11g	M270-50 F2	7/17
37	WASHER	5/8"		16	A374		NO NOTE SOCKET HEAD 8/11
38	WASHER	5/8"		16	F844		8/15
39	STUD	5/8"		8	604	A108	8/3
40							
41							
42							
43	TIE PLATE			1	E10		ALIKE EXCEPT FOR NO. & SH. 1406
44	TIE PLATE			1	F10		ALIKE EXCEPT FOR NO. & SH. 1406
45	PL	20 x 1/2	8	8	x1f	M270-50 F2	7/22
46	PL	20 x 1	16'-11 1/2"	2	x1ab	M270-50 F2	7/18
47	PL	3 1/2 x 1/2	6	12	x7bb	M270-50	1/18
48	STUD	5/8"		192		A108	8/3
49							
50	TIE PLATE			1	G10		ALIKE EXCEPT FOR NO. & SH. 1388
51	TIE PLATE			1	H10		ALIKE EXCEPT FOR NO. & SH. 1388
52	PL	20 x 1/2	8	8	x1f	M270-50 F2	7/22
53	PL	20 x 1	16'-11 1/2"	2	x1ab	M270-50 F2	7/18
54	STUD	5/8"		192		A108	8/3

CABLE FRAMES #10  
**VINCENNES STEEL CORP.**  
VINCENNES, IND.

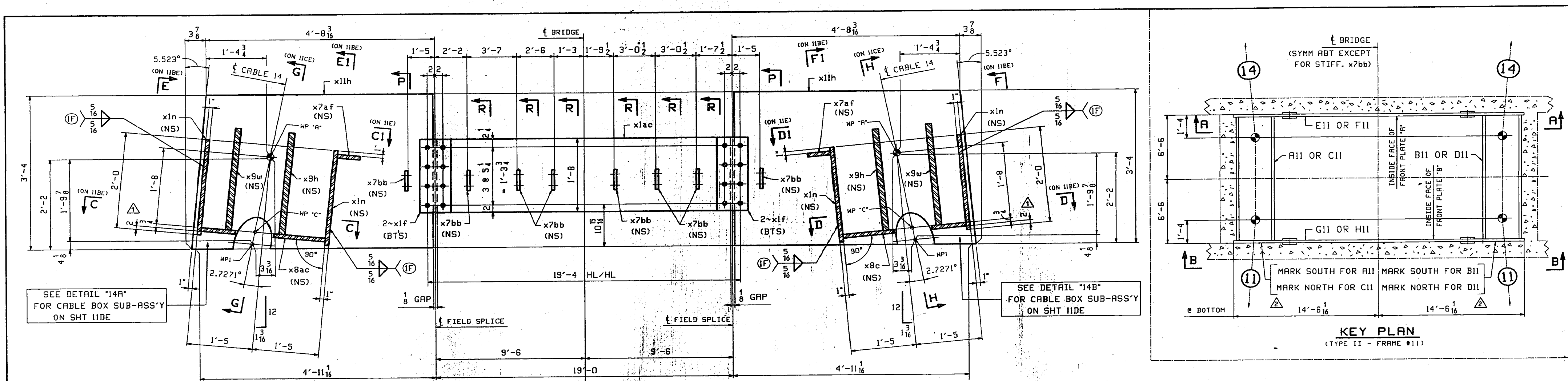
Drawn	Checked	Approved	Revised
RB	TRM		
10/2/28	10/28/28		

U.S. 231 OVER THE OHIO RIVER AND INDIANA 66  
KENTUCKY D.O.H. / INDIANA D.O.T.  
DAVIESS COUNTY, KY / SPENCER COUNTY, IND  
PROJ. 00K80 00101 001

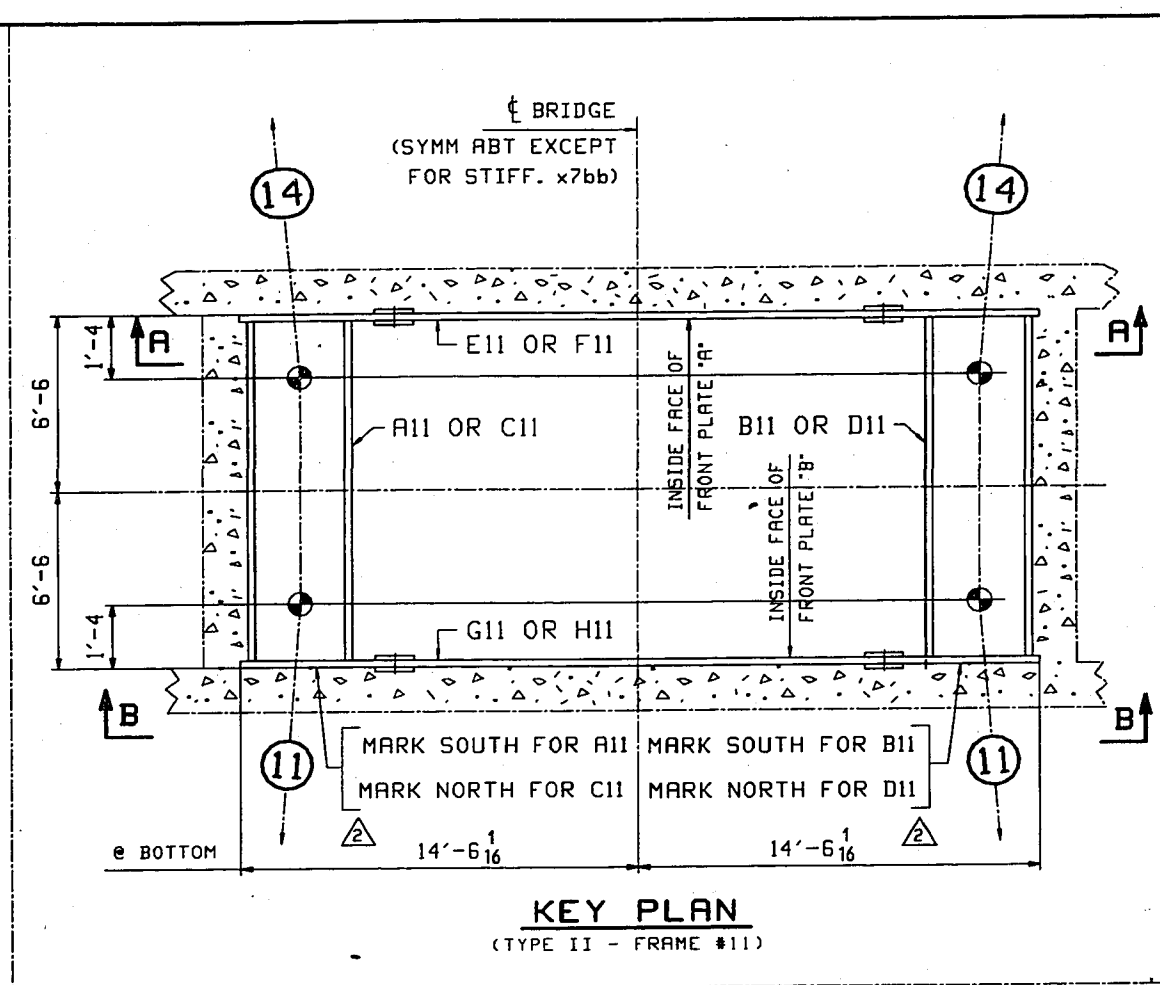
Shop Print SEE GNI  
Edge Distance AS NOTED Notes 15/16" φ (LN)  
Contr. No. 671 Sh. 10E of 1

WORK THIS SHEET WITH SHEET 10A, 10B, 10C & 10D.

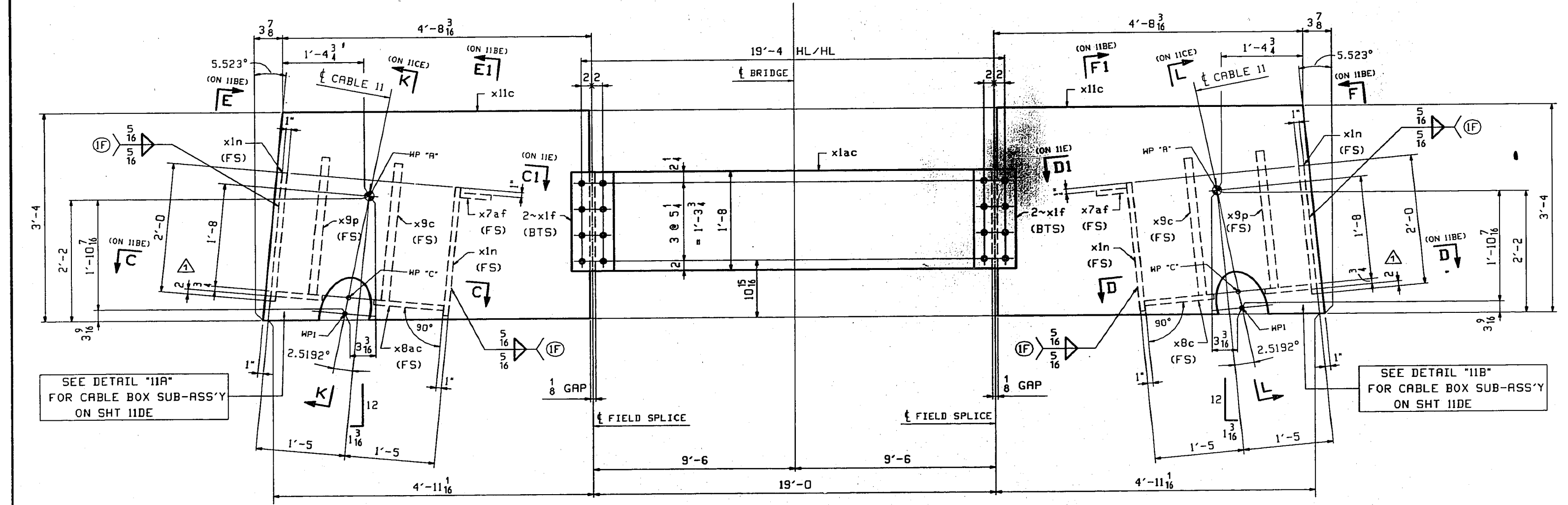




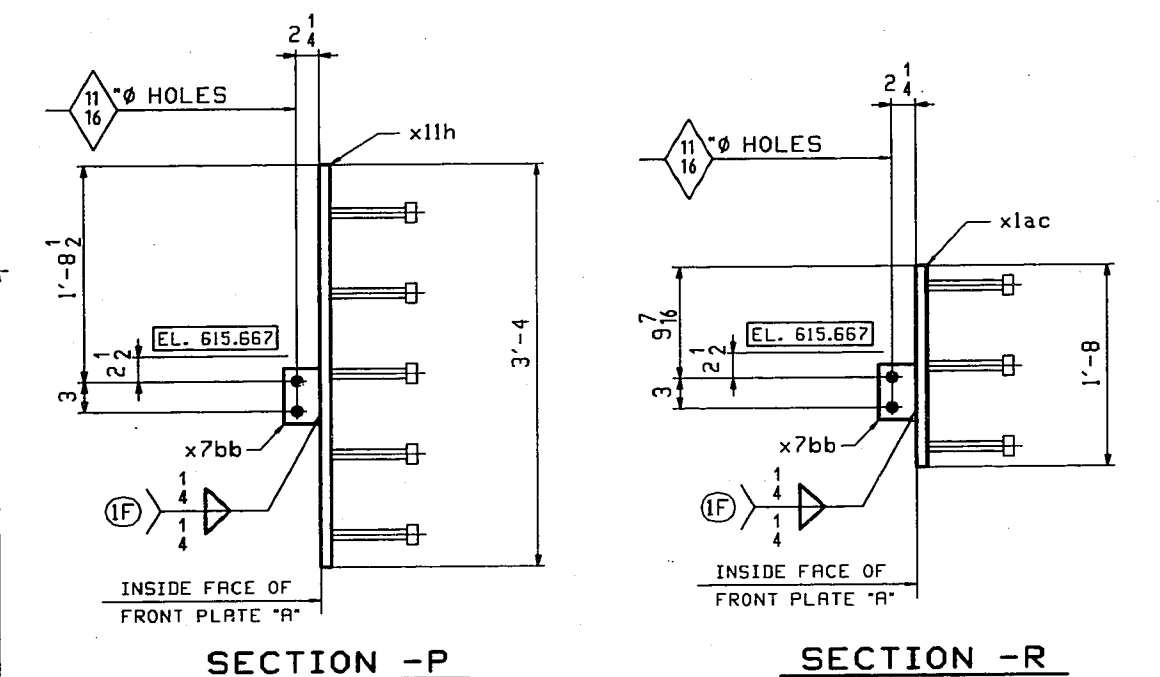
**SECTION A-A**  
(ELEVATION @ FRONT PLATE "A")  
(STUDS NOT SHOWN - SEE DETAIL "S1" ON IIE)



**KEY PLAN**  
(TYPE II - FRAME #11)



**VIEW B-B**  
(ELEVATION @ FRONT PLATE "B")  
(STUDS NOT SHOWN - SEE DETAIL "S2" ON IIE)



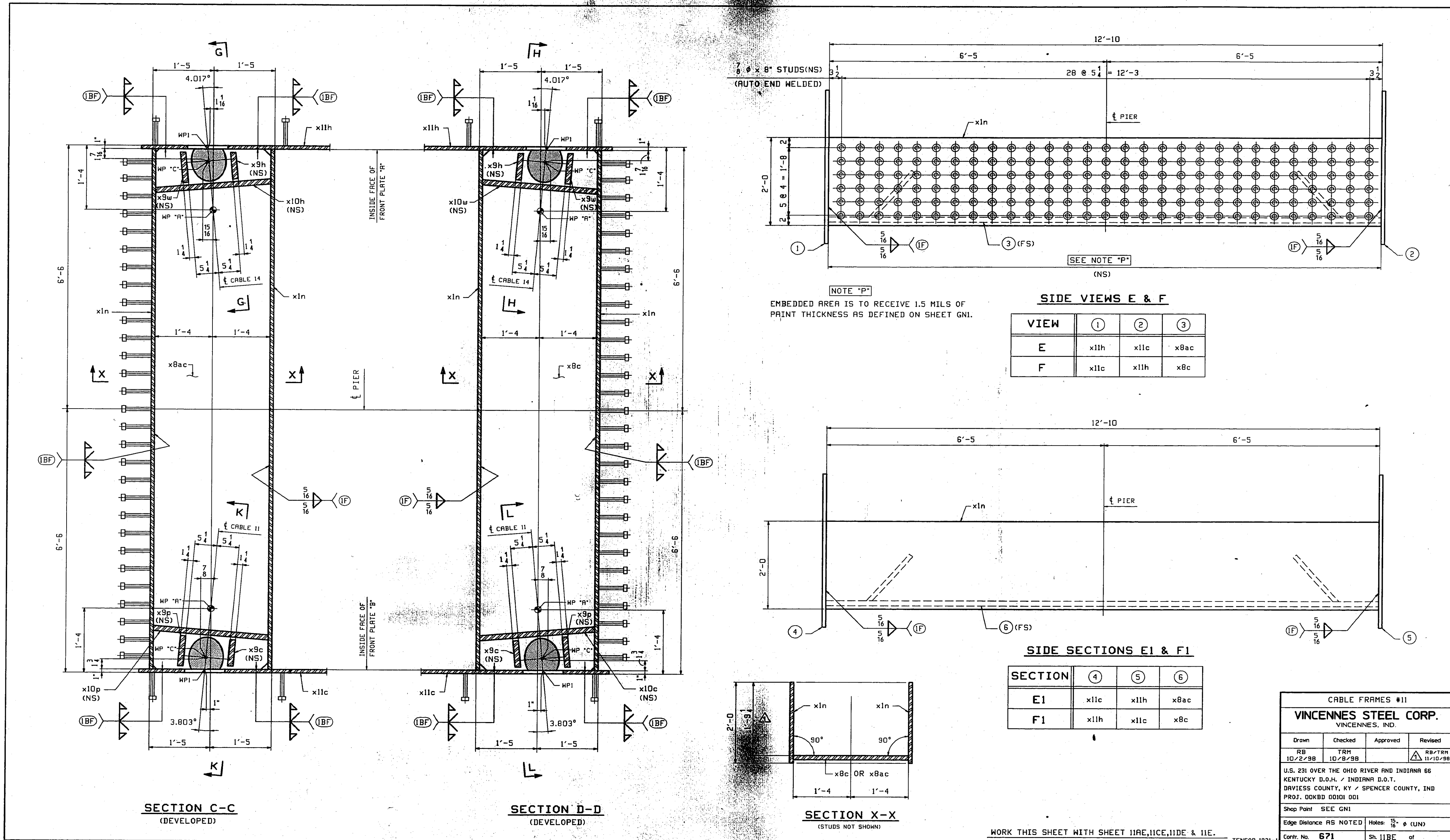
**SECTION -P** and **SECTION -R**

- NOTES:**
1. FOR CABLE FRAME STANDARD DETAILS SEE SHT. XI, X7-X11.
  2. FOR GENERAL NOTES SEE SHEET GN1.
  3. ALL MATERIAL TO BE M270 GR50 (FCM) (UN).  
(FCM - DENOTES FRACTURE CRITICAL MATERIAL)
  4. ALL HOLES TO BE [DR](UN).
  5. BTS = BOLT TO SHIP.

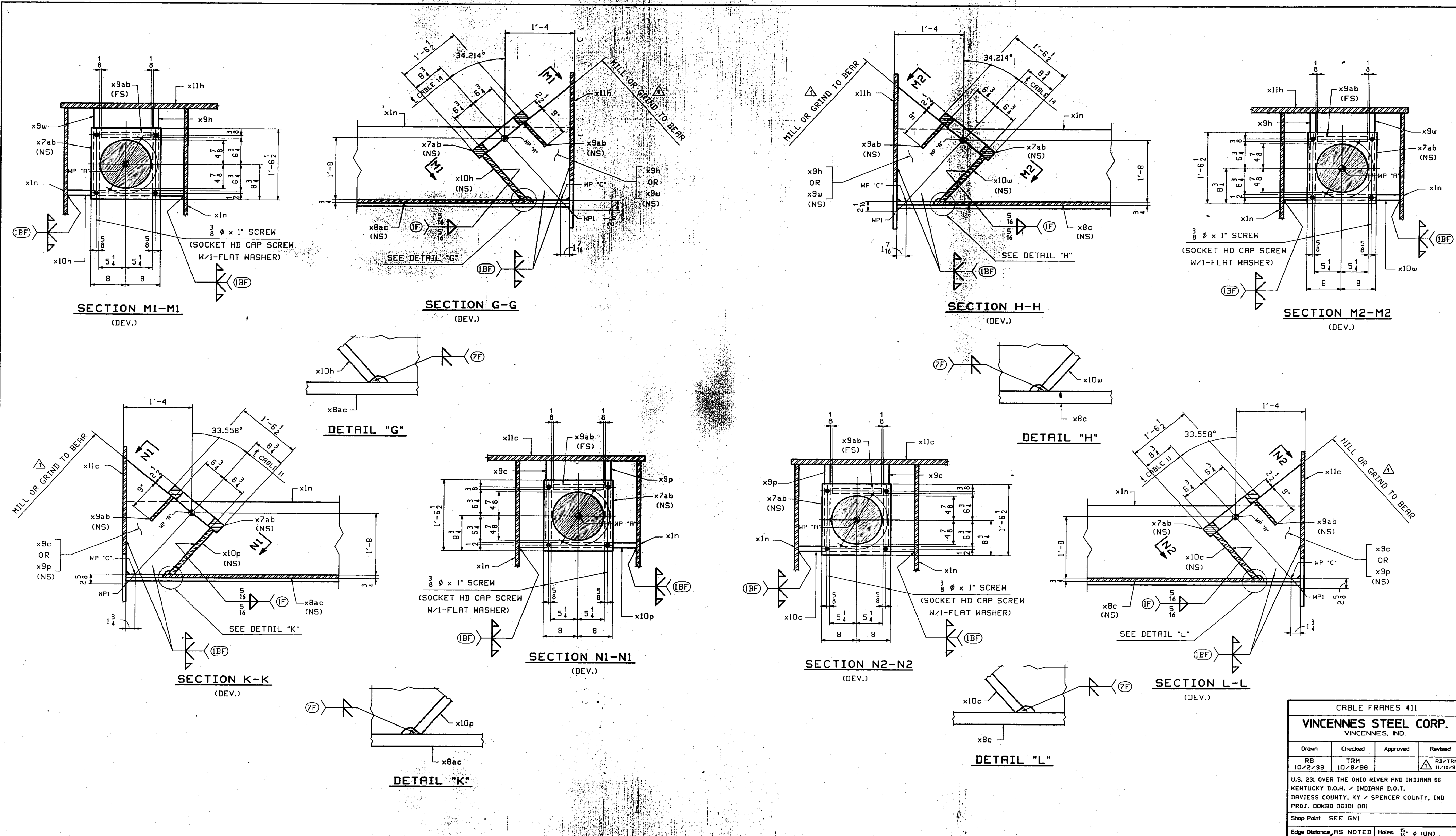
- ONE ~ CABLE FRAME ~ A11 (FRAME #11 @ PIER B) ALIKE EXCEPT FOR MARK & DR
- ONE ~ CABLE FRAME ~ C11 (FRAME #11 @ PIER C)
- ONE ~ TIE PLATE ~ E11 (FRAME #11 @ PIER B) ALIKE EXCEPT FOR MARK & DR
- ONE ~ TIE PLATE ~ F11 (FRAME #11 @ PIER C)
- ONE ~ TIE PLATE ~ G11 (FRAME #11 @ PIER B) ALIKE EXCEPT FOR MARK & DR
- ONE ~ TIE PLATE ~ H11 (FRAME #11 @ PIER C)
- ONE ~ CABLE FRAME ~ B11 (FRAME #11 @ PIER B) ALIKE EXCEPT FOR MARK & DR
- ONE ~ CABLE FRAME ~ D11 (FRAME #11 @ PIER C)

WORK THIS SHEET WITH SHEET I1B,E,I1C,E,I1D & I1E.

CABLE FRAMES #11			
VINCENNES STEEL CORP.			
VINCENNES, IND.			
Drawn	Checked	Approved	Revised #
RB	TRM		RB/TTM
10/2/98	10/2/98		12/22/99
U.S. 231 OVER THE OHIO RIVER AND INDIANA 65			
KENTUCKY D.O.H. / INDIANA D.O.T.			
DAVIESS COUNTY, KY / SPENCER COUNTY, IND			
PROJ. DDKBD 0001 001			
Shop Point SEE GN1			
Edge Distance AS NOTED Holes: 15/16" @ (UN)			
Contr. No. 671		Sh. I1AE of 70	



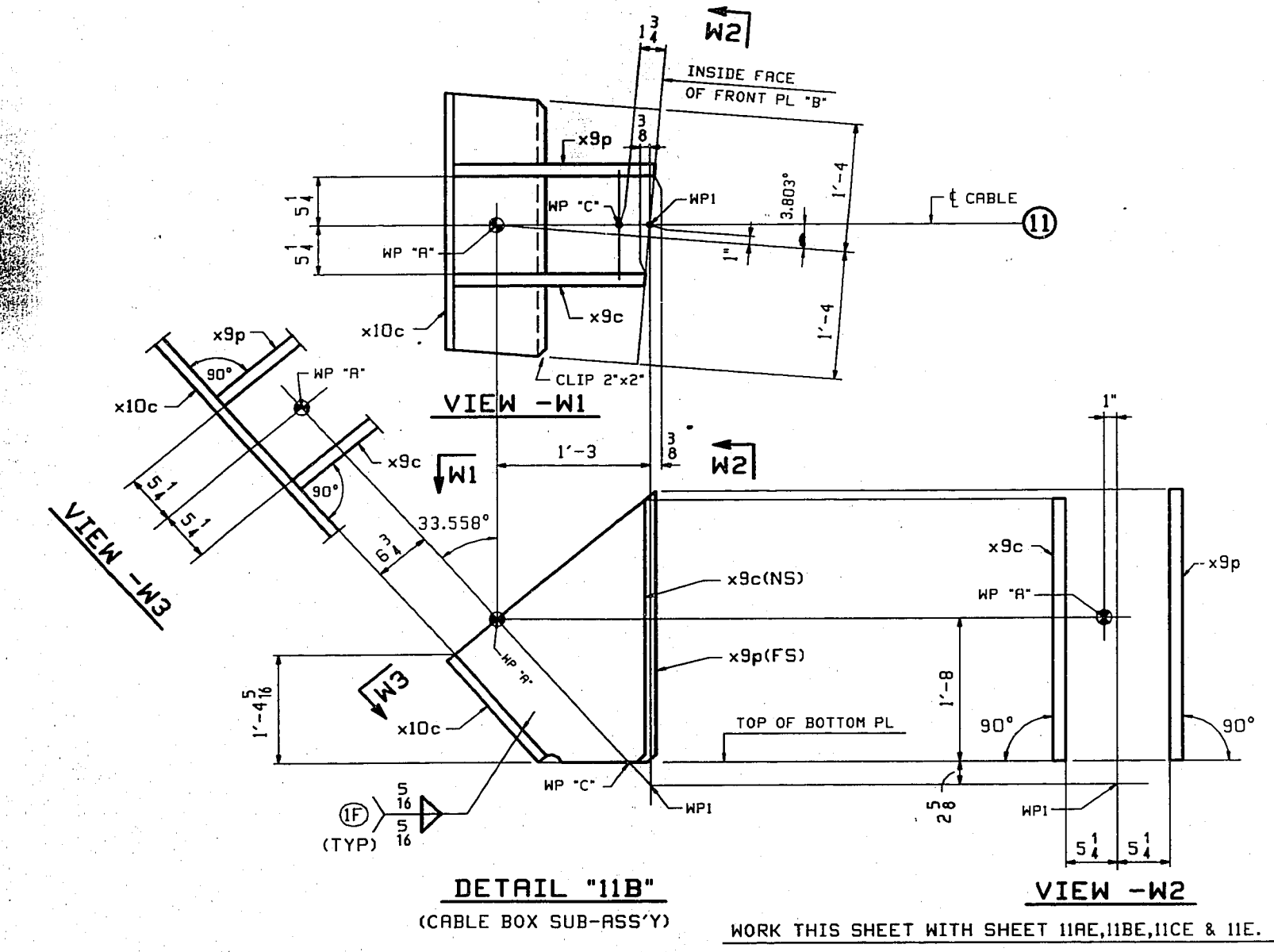
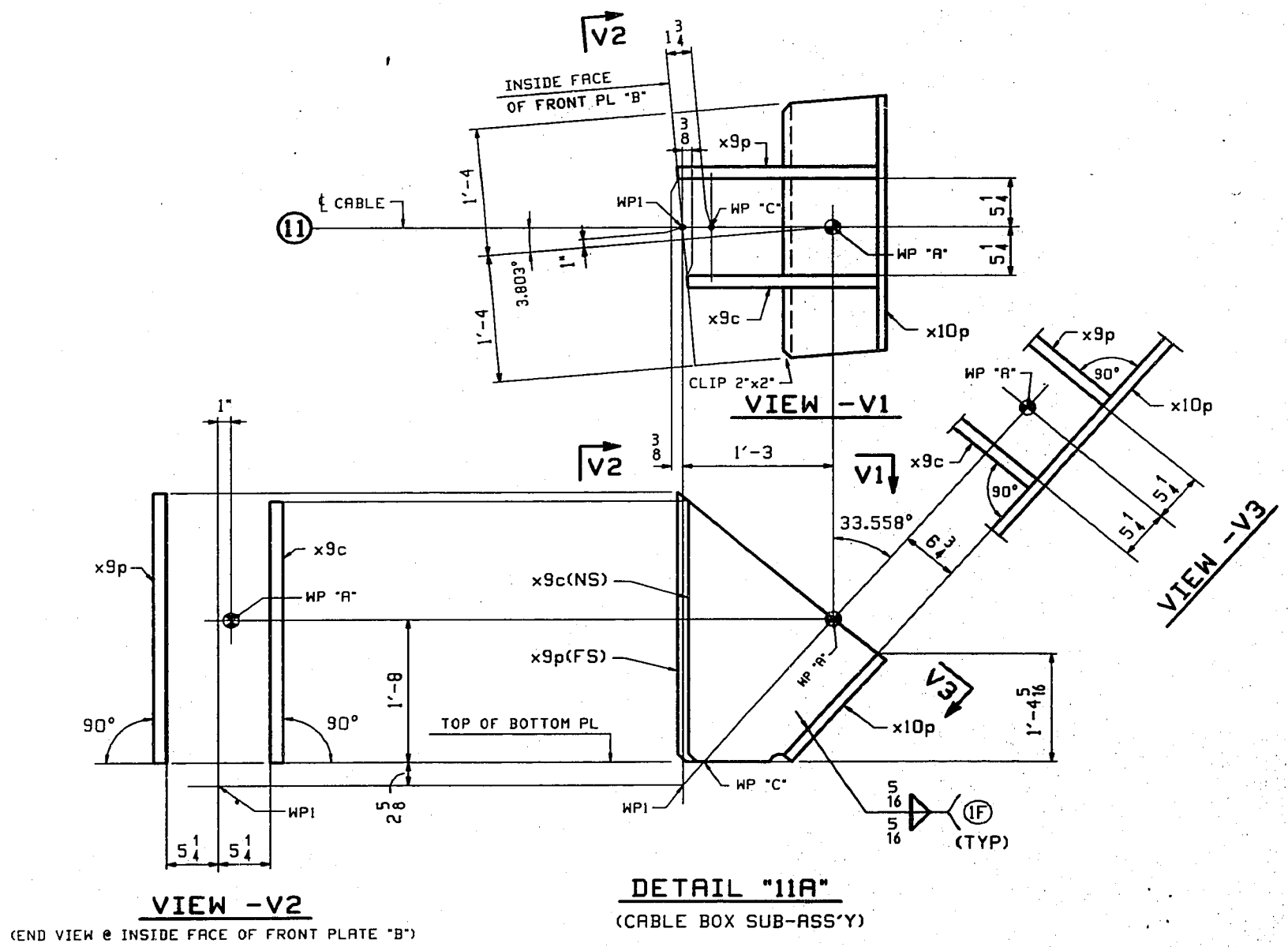
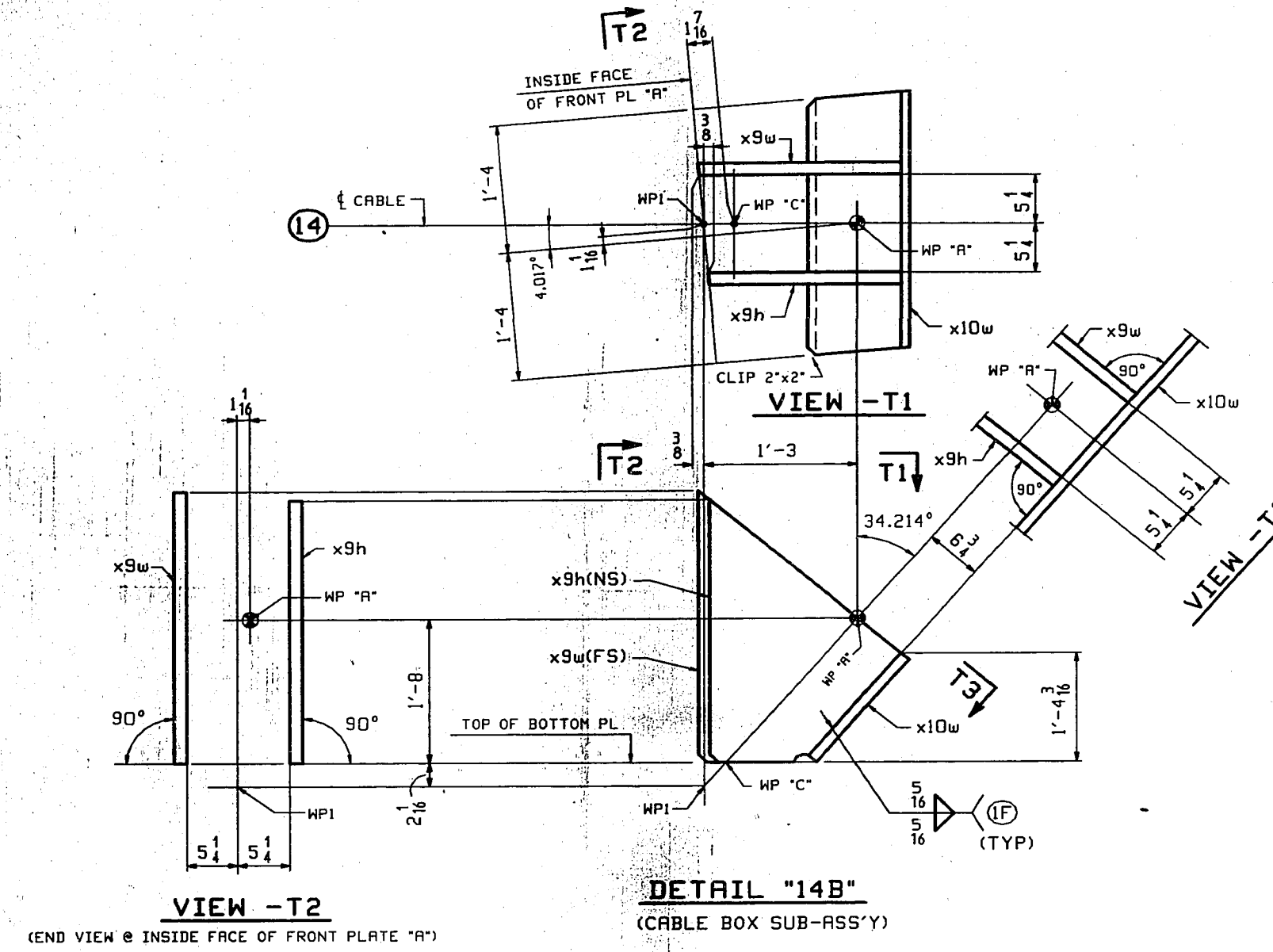
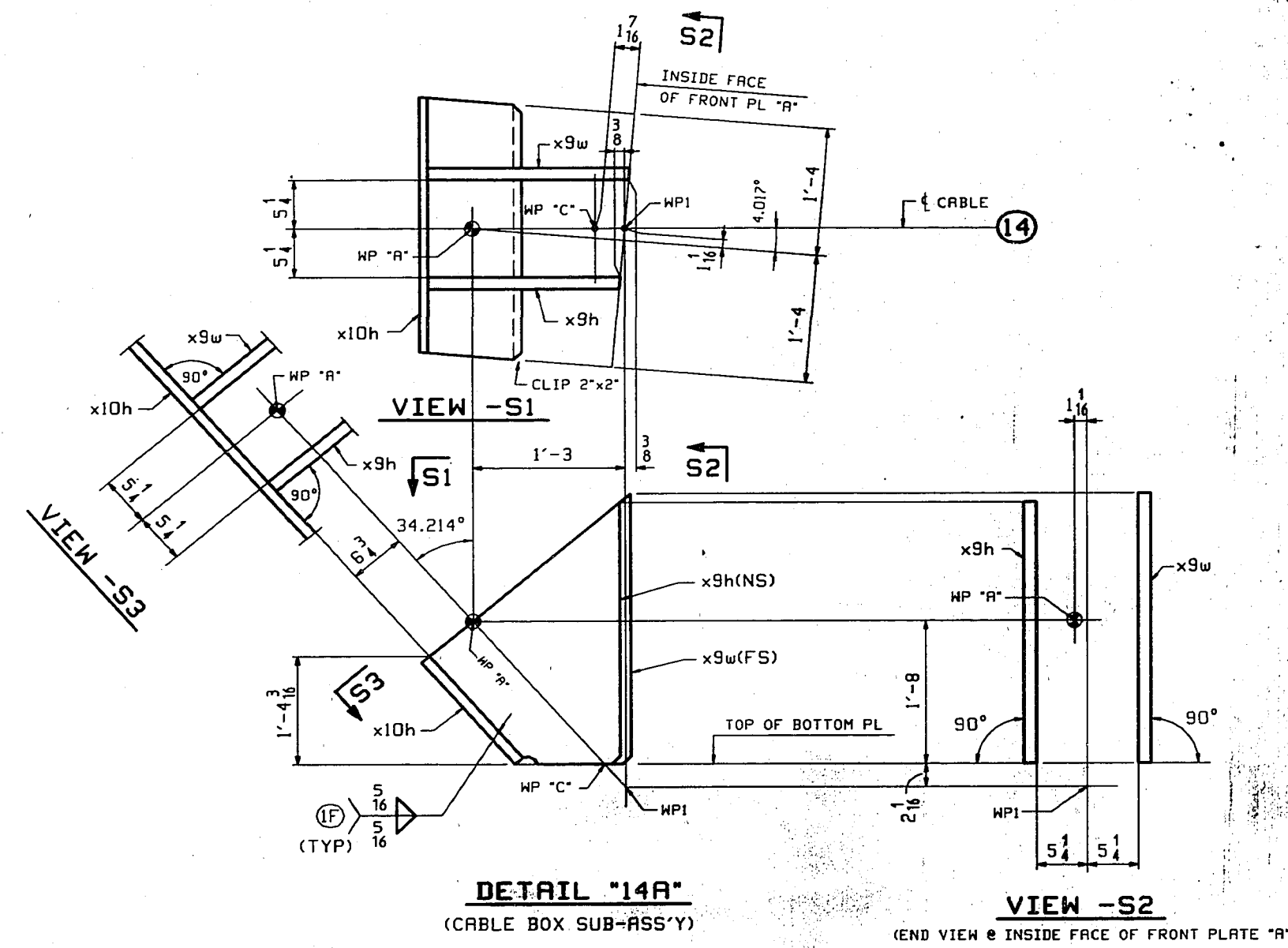




CABLE FRAMES #11			
VINCENNES STEEL CORP. VINCENNES, IND.			
Drawn	Checked	Approved	Revised
RB	TRM		RB/TRM
10/2/98	10/8/98		11/11/98
U.S. 231 OVER THE OHIO RIVER AND INDIANA 66 KENTUCKY D.O.H. / INDIANA D.O.T. DAVIESS COUNTY, KY / SPENCER COUNTY, IND PROJ. 00K80 0001 001			
Shop Print SEE GNI			
Edge Distance AS NOTED		Holes: $\frac{1}{8}$ " $\phi$ (UN)	
Contr. No. 671		Sh. 11CE of	

WORK THIS SHEET WITH SHEET 11A, 11B, 11D & 11E.

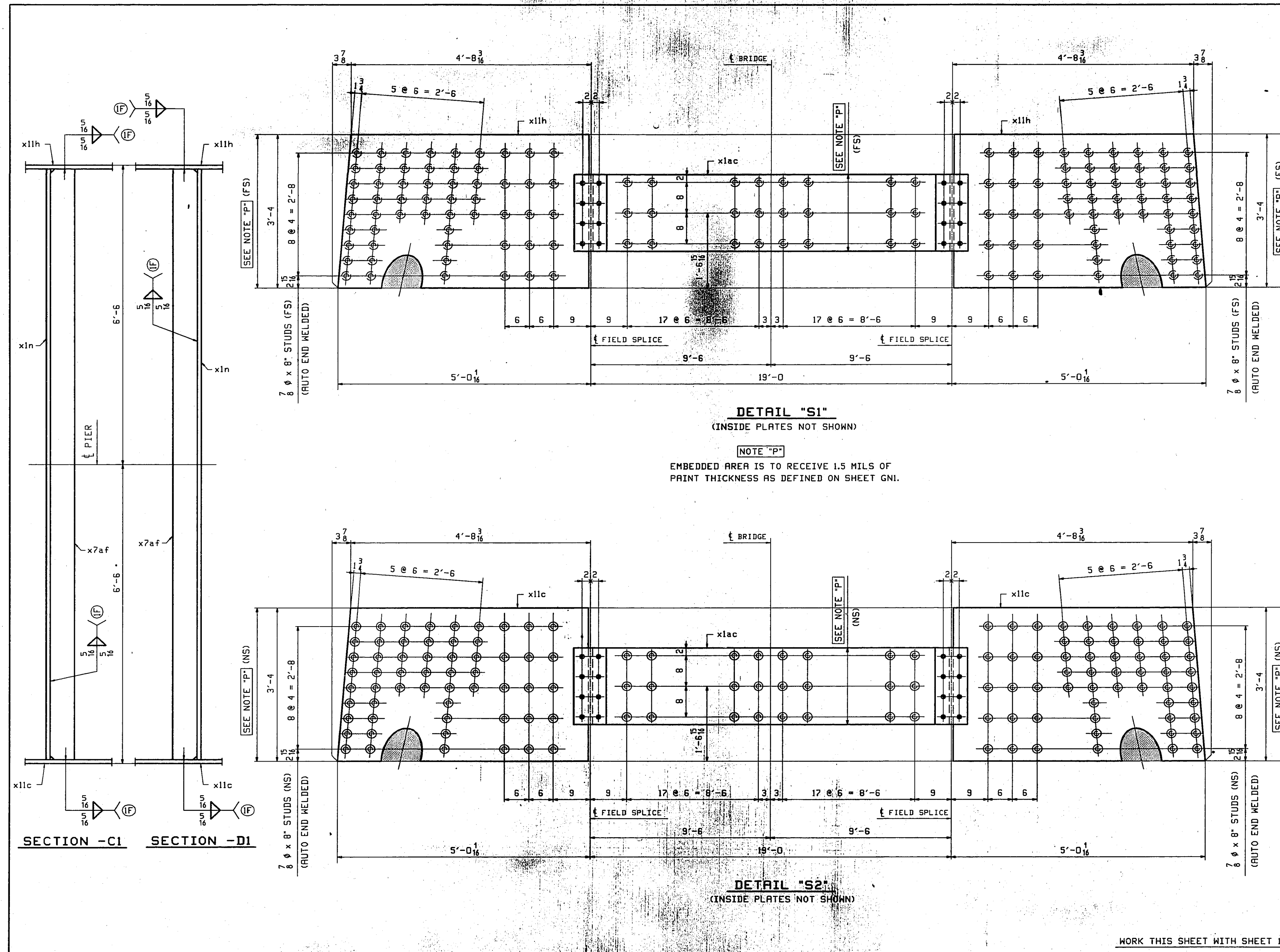
TENSOR 1821-1



CABLE FRAMES #11			
VINCENNES STEEL CORP.			
VINCENNES, IND.			
Drawn	Checked	Approved	Revised
RB	TRM		
10/2/98	10/8/98		
U.S. 231 OVER THE OHIO RIVER AND INDIANA 65			
KENTUCKY D.O.H. / INDIANA D.O.T.			
DAVISS COUNTY, KY / SPENCER COUNTY, IND			
PROJ. 00KBD 00101 001			
Shop Print SEE GNI			
Edge Distance AS NOTED Holes: 5/16" Ø (UN)			
Contr. No. 671		Sh. 11DE of	

TENSOR 1821-





BILL OF MATERIAL							
LN	KIND	SECTION	LENGTH	REQ.	MARK	GRADE	REMARKS
1	CABLE FRAME	1	RII				ALIKE EXCEPT FOR ME & DR 6884
2	CABLE FRAME	1	CIU				6884
3	PL	24 x 1	12'-10	4	x1n	M270-50 F2	8/3
4	PL	16 x 2 1/2	1'-6 1/2	4	x7ab	M270-50 F2	8/3
5	PL	6 x 1	12'-10	2	x7af	M270-50 F2	8/2
6	PL	3 1/2 x 1/2	6	2	x7bb	M270-50	1/15
7	PL	32 x 1/2	12'-10	2	x8ac	M270-50 F2	8/5
8	PL	20 1/2 x 1/2	2'-5 1/2	2	x9c	M270-50 F2	8/12
9	PL	20 1/2 x 1/2	2'-5 1/2	2	x9h	M270-50 F2	8/12
10	PL	21 x 1 1/2	2'-6 1/2	2	x9p	M270-50 F2	8/12
11	PL	21 x 1 1/2	2'-6 1/2	2	x9w	M270-50 F2	8/12
12	PL	9 x 1/2	10 1/2	4	x9ab	M270-50 F2	8/10
13	PL	18 1/2 x 1	2'-8 1/2	2	x10h	M270-50 F2	8/11
14	PL	18 1/2 x 1	2'-8 1/2	2	x10p	M270-50 F2	8/11
15	PL	40 x 1	5'-0	2	x11c	M270-50 F2	8/3
16	PL	40 x 1	5'-0	2	x11h	M270-50 F2	8/3
17	SCR	3/8"		1		M574	NO NUTS SOCKET HEAD 8/11
18	WASH	3/8"		16		F844	8/15
19	STUD	3/8"		8		M576	8/3
20							
21							
22	CABLE FRAME	1	BII				ALIKE EXCEPT FOR ME & DR 6884
23	CABLE FRAME	1	DIU				6884
24	PL	24 x 1	12'-10	4	x1n	M270-50 F2	8/3
25	PL	16 x 2 1/2	1'-6 1/2	4	x7ab	M270-50 F2	8/3
26	PL	6 x 1	12'-10	2	x7af	M270-50 F2	8/2
27	PL	3 1/2 x 1/2	6	2	x7bb	M270-50	1/15
28	PL	32 x 1/2	12'-10	2	x8c	M270-50 F2	8/5
29	PL	20 1/2 x 1/2	2'-5 1/2	2	x8c	M270-50 F2	8/12
30	PL	20 1/2 x 1/2	2'-5 1/2	2	x8h	M270-50 F2	8/12
31	PL	21 x 1 1/2	2'-6 1/2	2	x9p	M270-50 F2	8/12
32	PL	21 x 1 1/2	2'-6 1/2	2	x9w	M270-50 F2	8/12
33	PL	9 x 1/2	10 1/2	4	x9ab	M270-50 F2	8/10
34	PL	18 1/2 x 1	2'-8 1/2	2	x10c	M270-50 F2	8/11
35	PL	18 1/2 x 1	2'-8 1/2	2	x10w	M270-50 F2	8/11
36	PL	40 x 1	5'-0	2	x11c	M270-50 F2	8/3
37	PL	40 x 1	5'-0	2	x11h	M270-50 F2	8/3
38	SCR	3/8"		1		M574	NO NUTS SOCKET HEAD 8/11
39	WASH	3/8"		16		F844	8/15
40	STUD	3/8"		8		M576	8/3
41							
42							
43	TIE PLATE	1	EII				ALIKE EXCEPT FOR ME & DR 1560
44	TIE PLATE	1	FII				1560
45	PL	20 x 2	8	8	x1f	M270-50 F2	8/8
46	PL	20 x 1	18'-11 1/2	2	x1ac	M270-50 F2	8/4
47	PL	3 1/2 x 1/2	6	12	x7bb	M270-50	1/15
48	STUD	3/8"		8		M216	8/3
49							
50							
51	TIE PLATE	1	GII				ALIKE EXCEPT FOR ME & DR 1542
52	TIE PLATE	1	HII				1542
53	PL	20 x 2	8	8	x1f	M270-50 F2	8/8
54	PL	20 x 1	18'-11 1/2	2	x1ac	M270-50 F2	8/4
55	STUD	3/8"		8		M216	8/3

**CABLE FRAMES #11**

**VINCENNES STEEL CORP.**  
VINCENNES, IND.

Drawn	Checked	Approved	Revised
RB	TRM		
10/2/99	10/8/99		

U.S. 231 OVER THE OHIO RIVER AND INDIANA 66  
KENTUCKY D.O.H. / INDIANA D.O.T.  
DAVIESS COUNTY, KY / SPENCER COUNTY, IND  
PROJ. 00KBD 00101 001

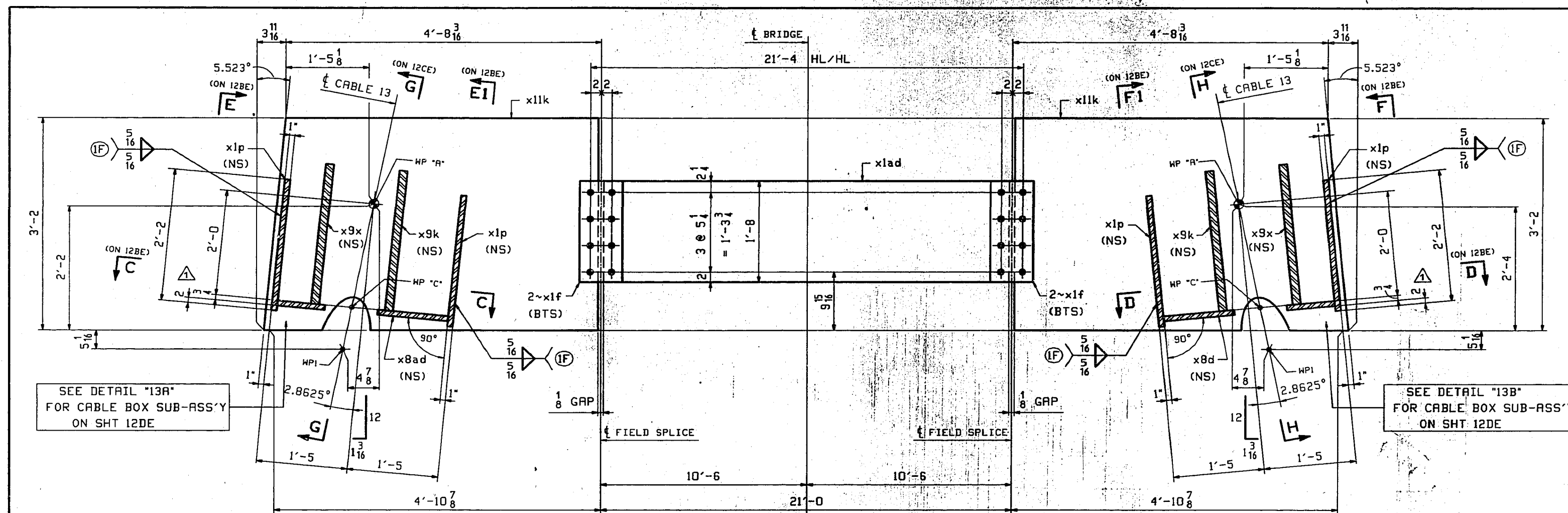
Shop Print SEE GNI

Edge Distance AS NOTED      Holes: 15/16" Ø (UN)

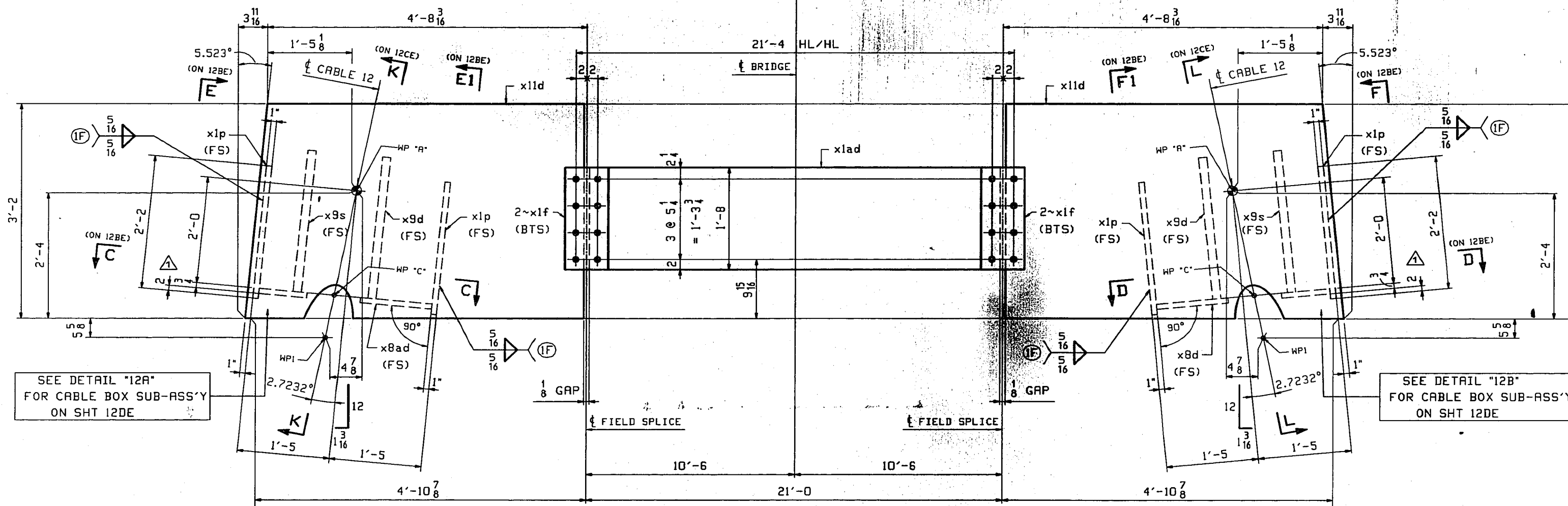
Contr. No. **671**      Sh. 11E of 74

WORK THIS SHEET WITH SHEET I1A, I1B, I1C & I1D.

SENSOR 1821-1



**SECTION A-A**  
(ELEVATION @ FRONT PLATE "A")  
(STUDS NOT SHOWN - SEE DETAIL "S1")



**VIEW B-B**  
(ELEVATION @ FRONT PLATE "B")  
(STUDS NOT SHOWN - SEE DETAIL "S2")

ONE ~ CABLE FRAME ~ A12  
(FRAME #12 @ PIER B)

ONE ~ CABLE FRAME ~ C12  
(FRAME #12 @ PIER C)

ALIKE EXCEPT  
FOR MARK & DR

ONE ~ TIE PLATE ~ E12  
(FRAME #12 @ PIER B)

ONE ~ TIE PLATE ~ F12  
(FRAME #12 @ PIER C)

ALIKE EXCEPT  
FOR MARK & DR

ONE ~ TIE PLATE ~ G12  
(FRAME #12 @ PIER B)

ONE ~ TIE PLATE ~ H12  
(FRAME #12 @ PIER C)

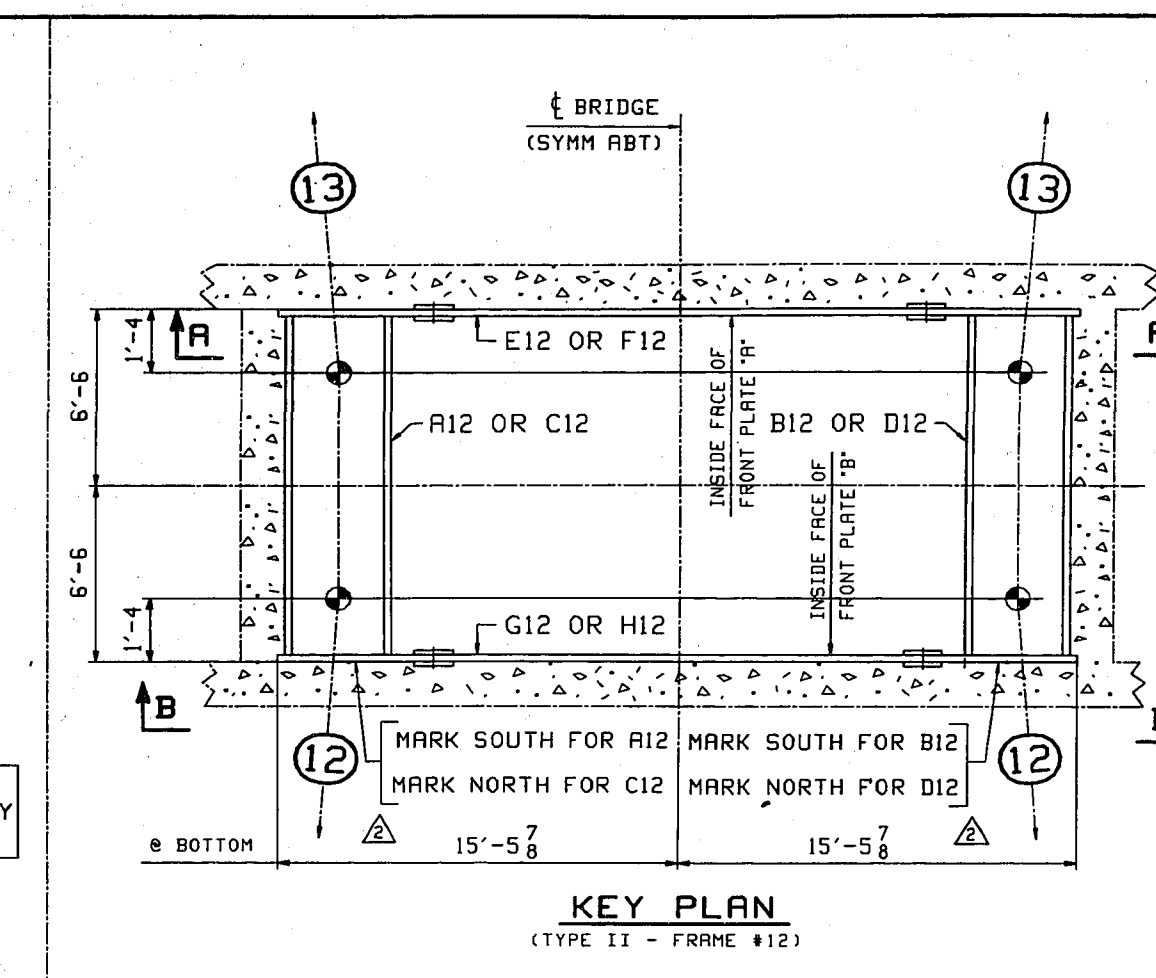
ONE ~ CABLE FRAME ~ B12  
(FRAME #12 @ PIER B)

ONE ~ CABLE FRAME ~ D12  
(FRAME #12 @ PIER C)

ALIKE EXCEPT  
FOR MARK & DR

WORK THIS SHEET WITH SHEET 12BE, 12CE, 12DE & 12E.

TENSOR 1021-



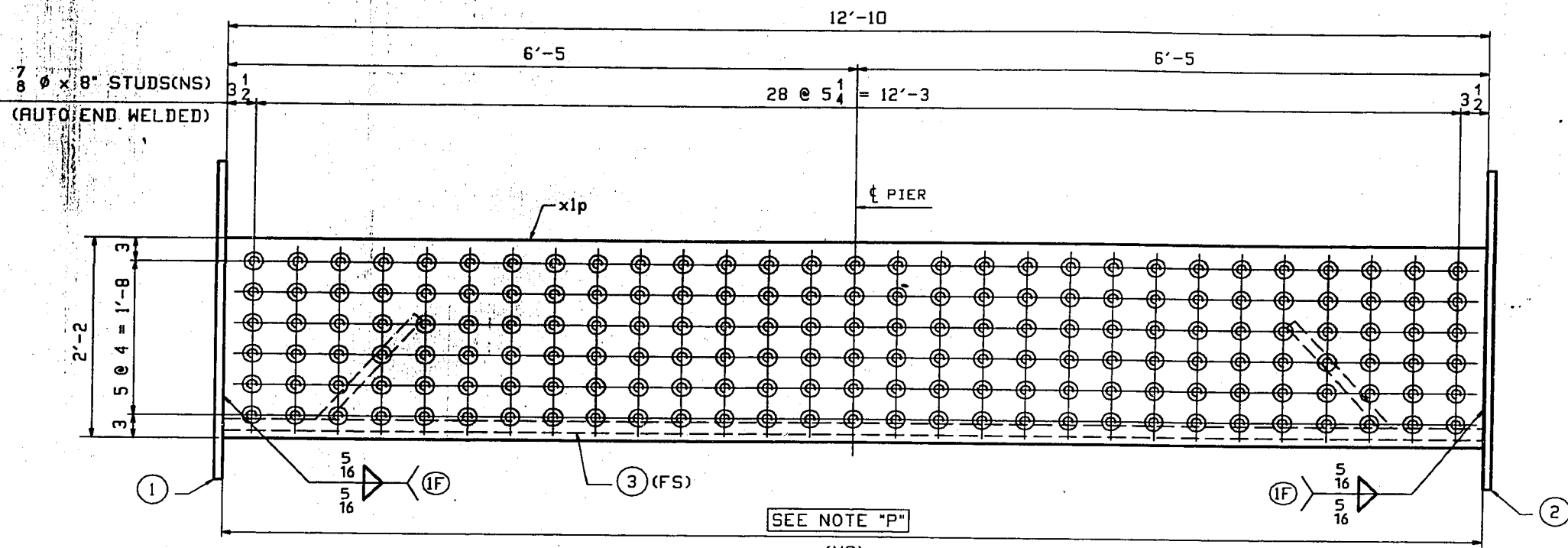
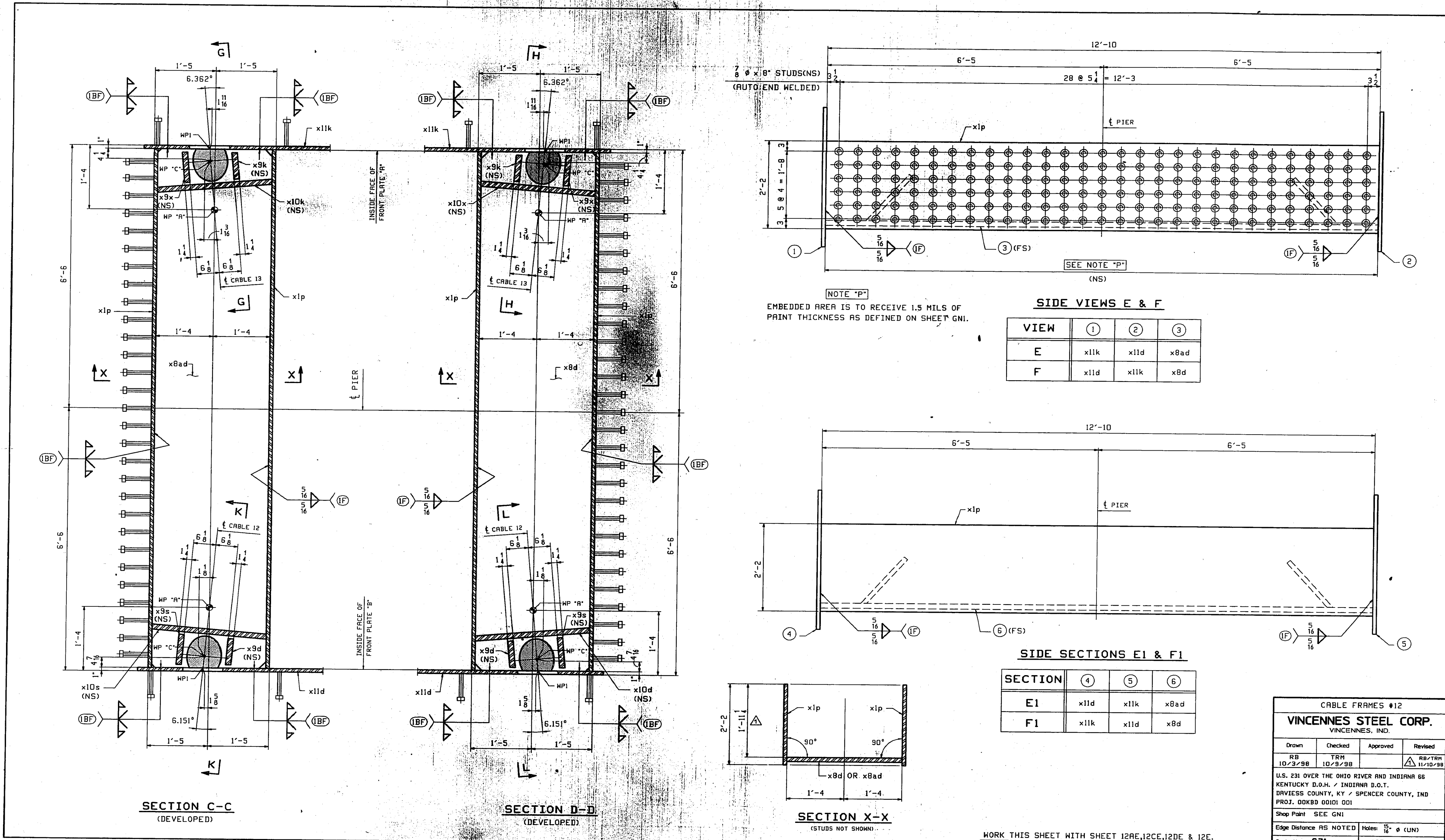
**KEY PLAN**  
(TYPE II - FRAME #12)

**NOTES:**

1. FOR CABLE FRAME STANDARD DETAILS SEE SHT. X1, X7-X11.
2. FOR GENERAL NOTES SEE SHEET GNI.
3. ALL MATERIAL TO BE M270 GR50 (FCM) (UN).  
(FCM - DENOTES FRACTURE CRITICAL MATERIAL)
4. ALL HOLES TO BE DR(U)N.
5. BTS = BOLT TO SHIP.

CABLE FRAMES #12			
VINCENNES STEEL CORP.			
VINCENNES, IND.			
Drawn	Checked	Approved	Revised
RB	TRM		RB/TRM
10/3/98	10/9/98		12/22/98
U.S. 231 OVER THE OHIO RIVER AND INDIANA 66			
KENTUCKY D.O.H. / INDIANA D.O.T.			
DAVISS COUNTY, KY / SPENCER COUNTY, IND			
PROJ. ODK88 00101 001			
Shop Point SEE GNI			
Edge Distance AS NOTED		Holes: 3/8" (UN)	
Contr. No. 671		Sh. 12RE of 75	

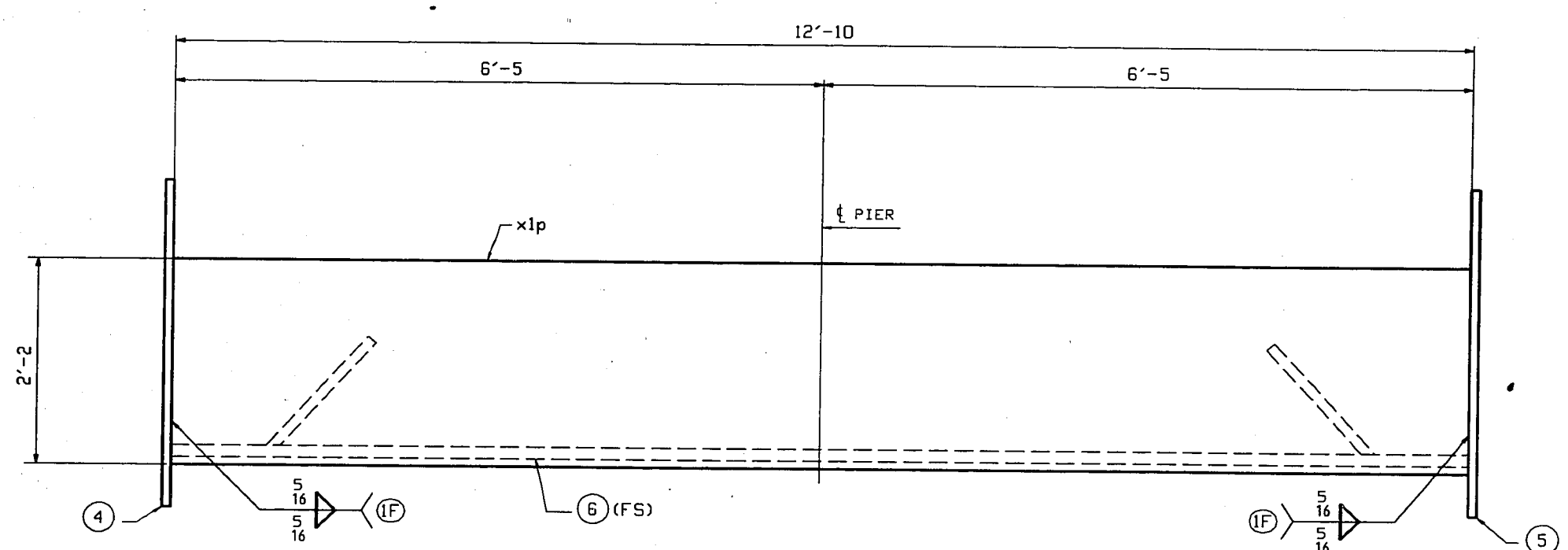




NOTE "P"  
EMBEDDED AREA IS TO RECEIVE 1.5 MILS OF PAINT THICKNESS AS DEFINED ON SHEET GNI.

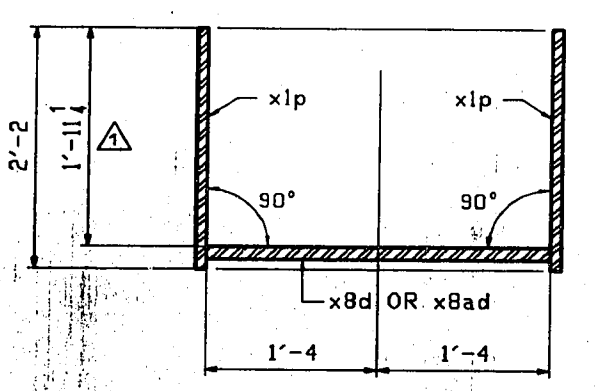
SIDE VIEWS E & F

VIEW	①	②	③
E	x11k	x11d	x8ad
F	x11d	x11k	x8d



SIDE SECTIONS E1 & F1

SECTION	④	⑤	⑥
E1	x11d	x11k	x8ad
F1	x11k	x11d	x8d

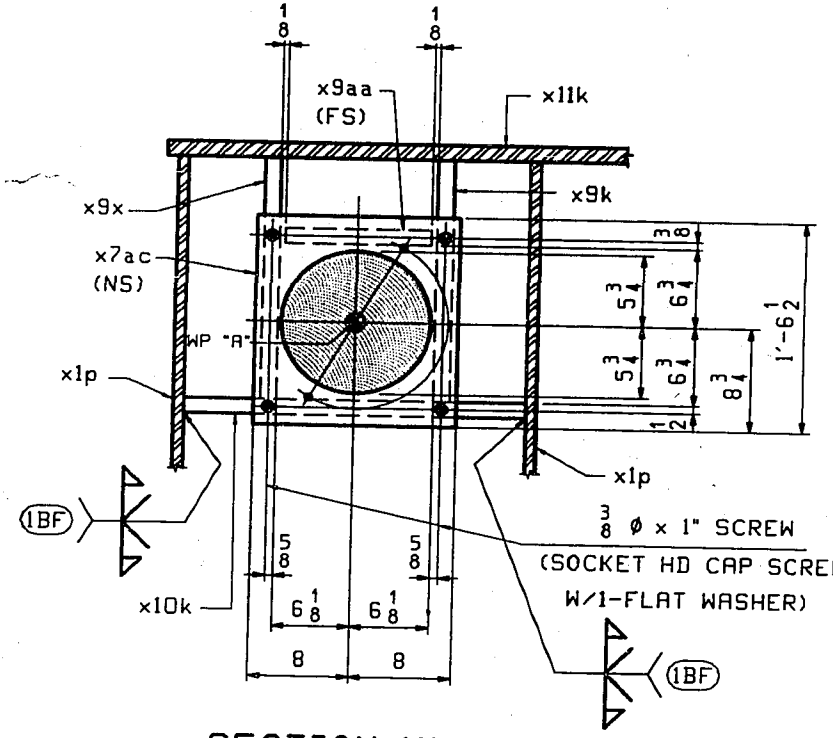


SECTION X-X  
(STUDS NOT SHOWN)

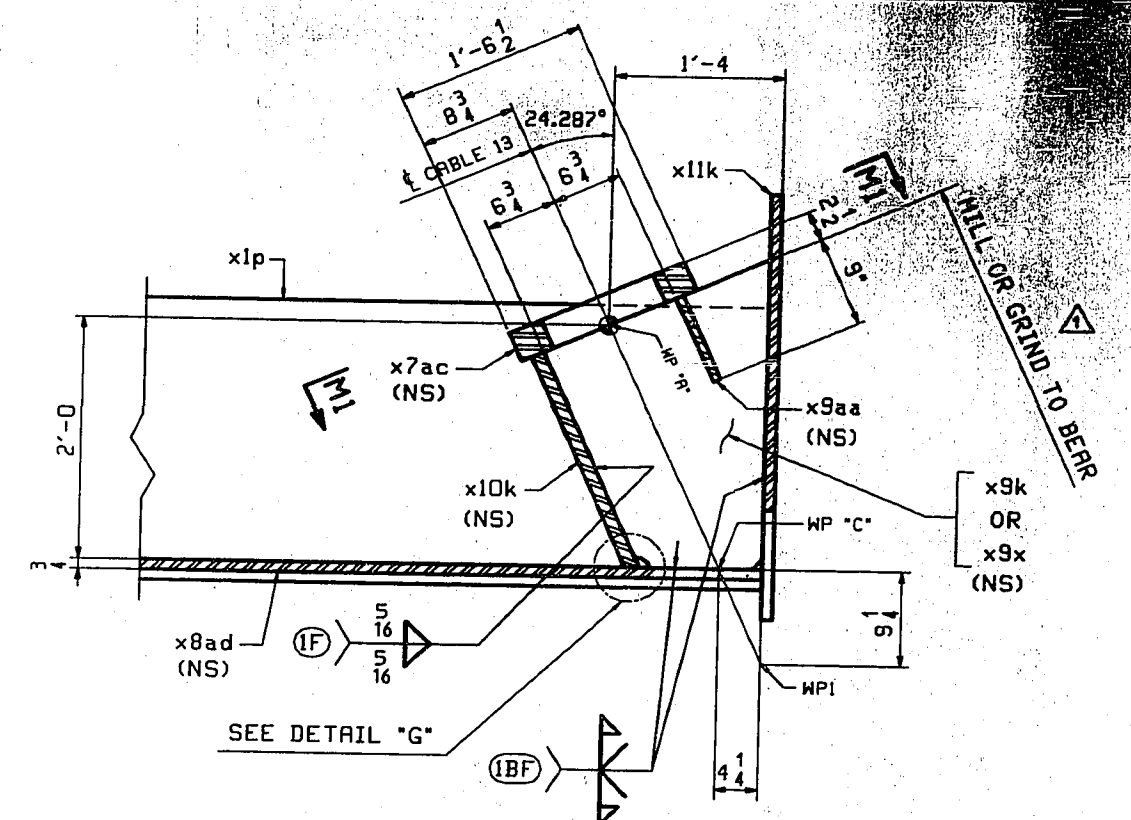
CABLE FRAMES #12			
VINCENNES STEEL CORP. VINCENNES, IND.			
Drawn	Checked	Approved	Revised
RB 10/3/98	TRM 10/3/98		RB/TRM 11/10/98
U.S. 231 OVER THE OHIO RIVER AND INDIANA 66 KENTUCKY D.O.H. / INDIANA D.O.T. DAVIESS COUNTY, KY / SPENCER COUNTY, IND PROJ. 00K8D 00101 001			
Shop Print SEE GNI			
Edge Distance AS NOTED		Holes: 1/8" Ø (LUN)	
Contr. No. 671		Sh. 12BE of	

WORK THIS SHEET WITH SHEET 12AE, 12CE, 12DE & 12E.

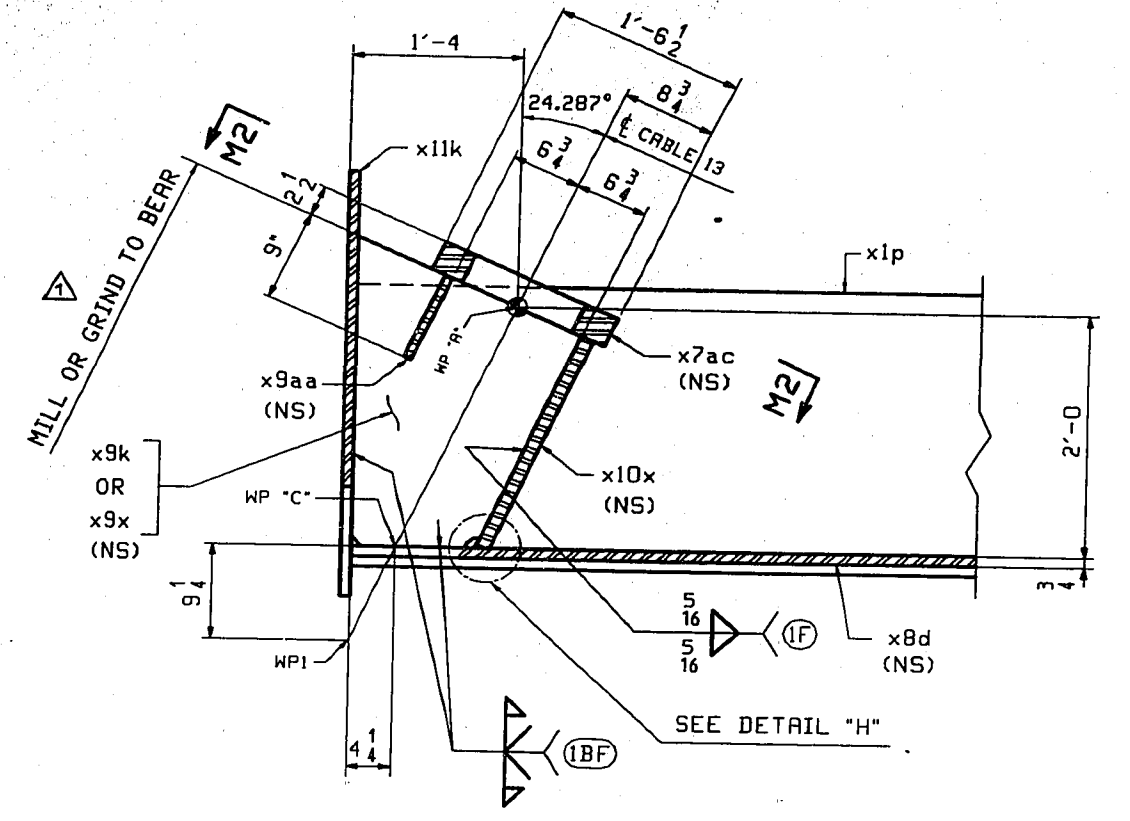
76



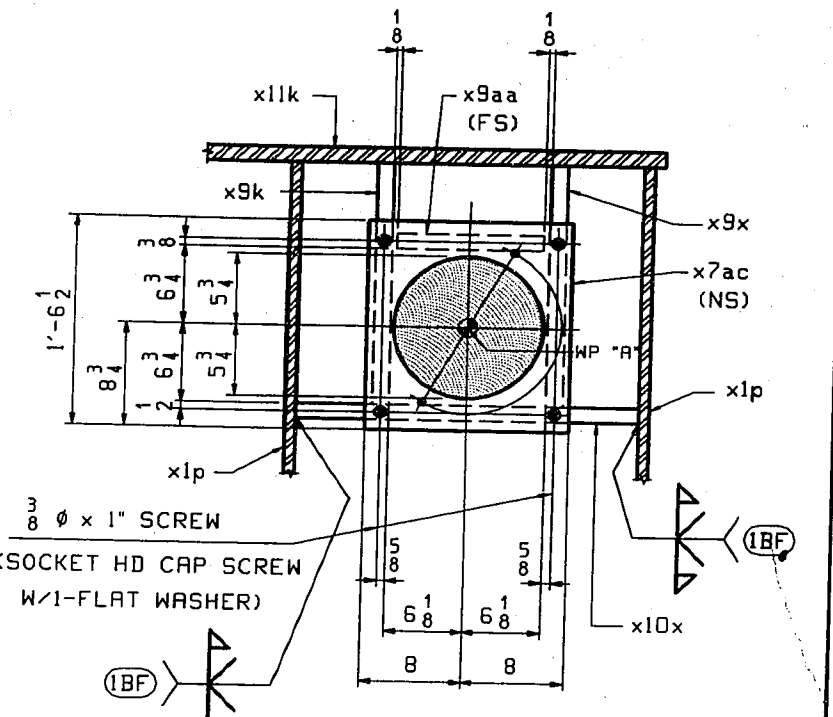
SECTION M1-M1  
(DEV.)



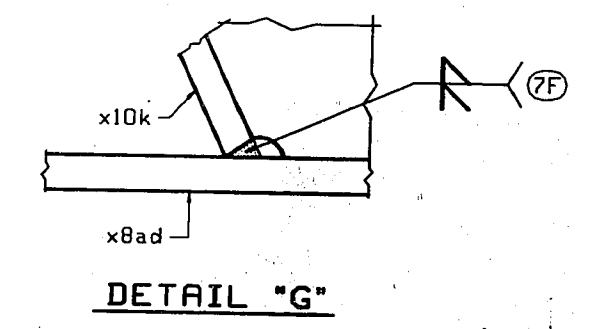
SECTION G-G  
(DEV.)



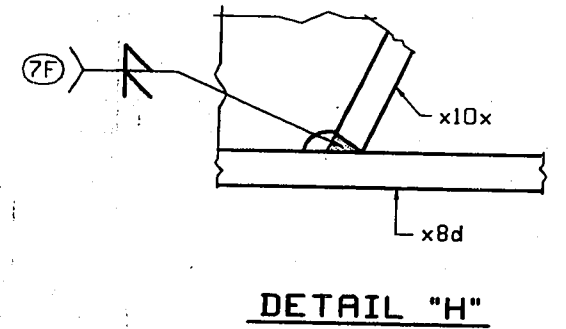
SECTION G-G  
(DEV.)



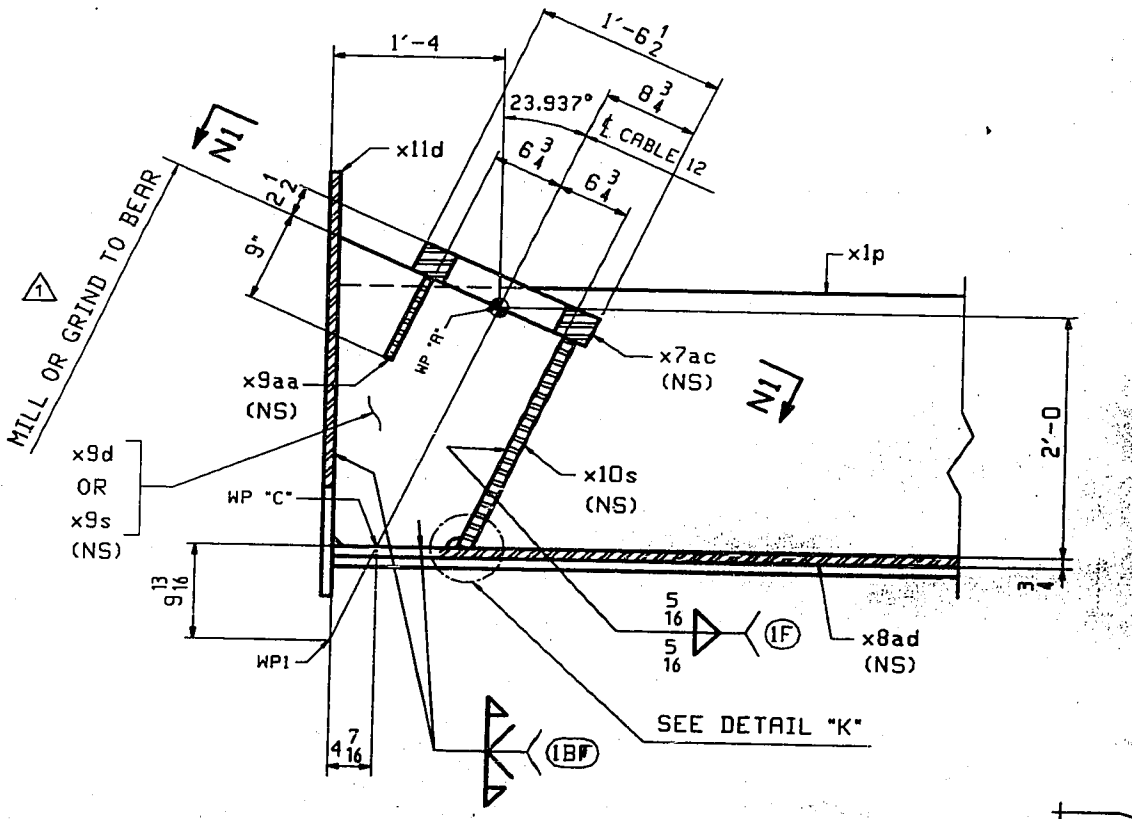
SECTION M2-M2  
(DEV.)



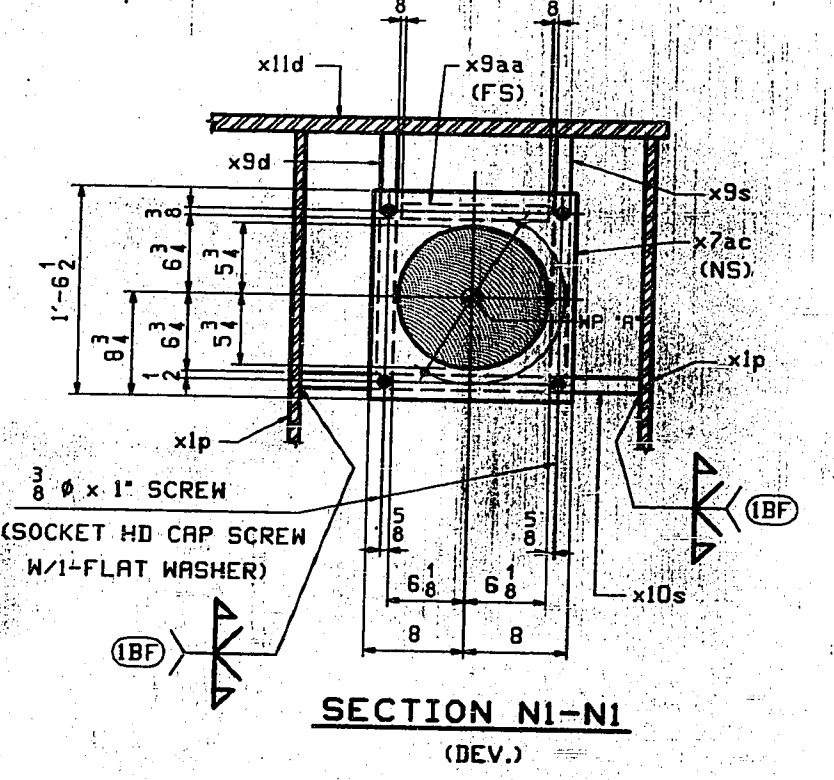
DETAIL "G"



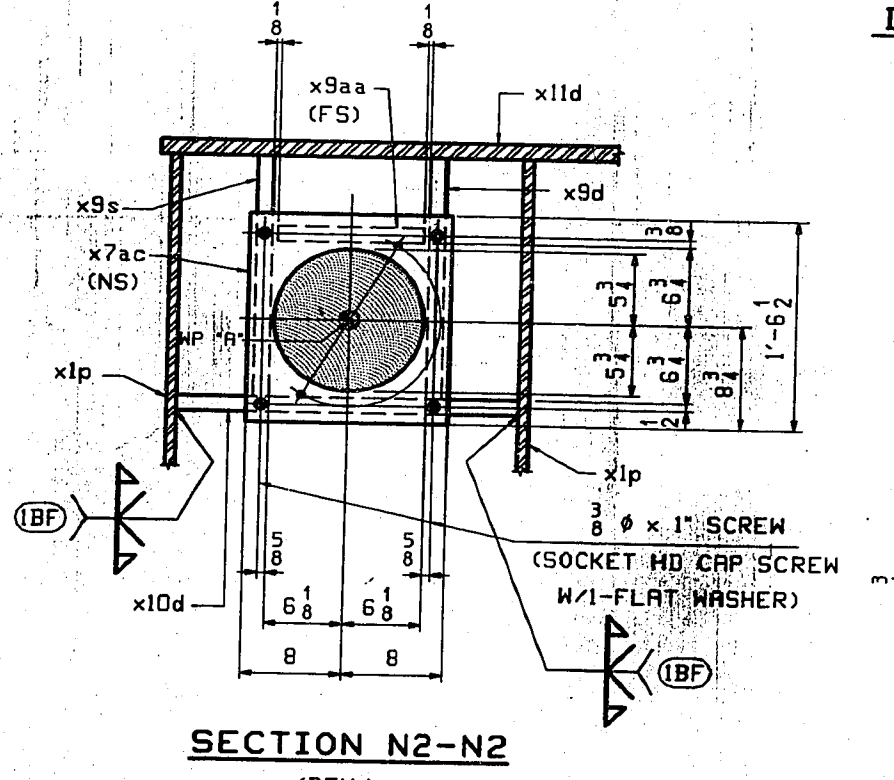
DETAIL "H"



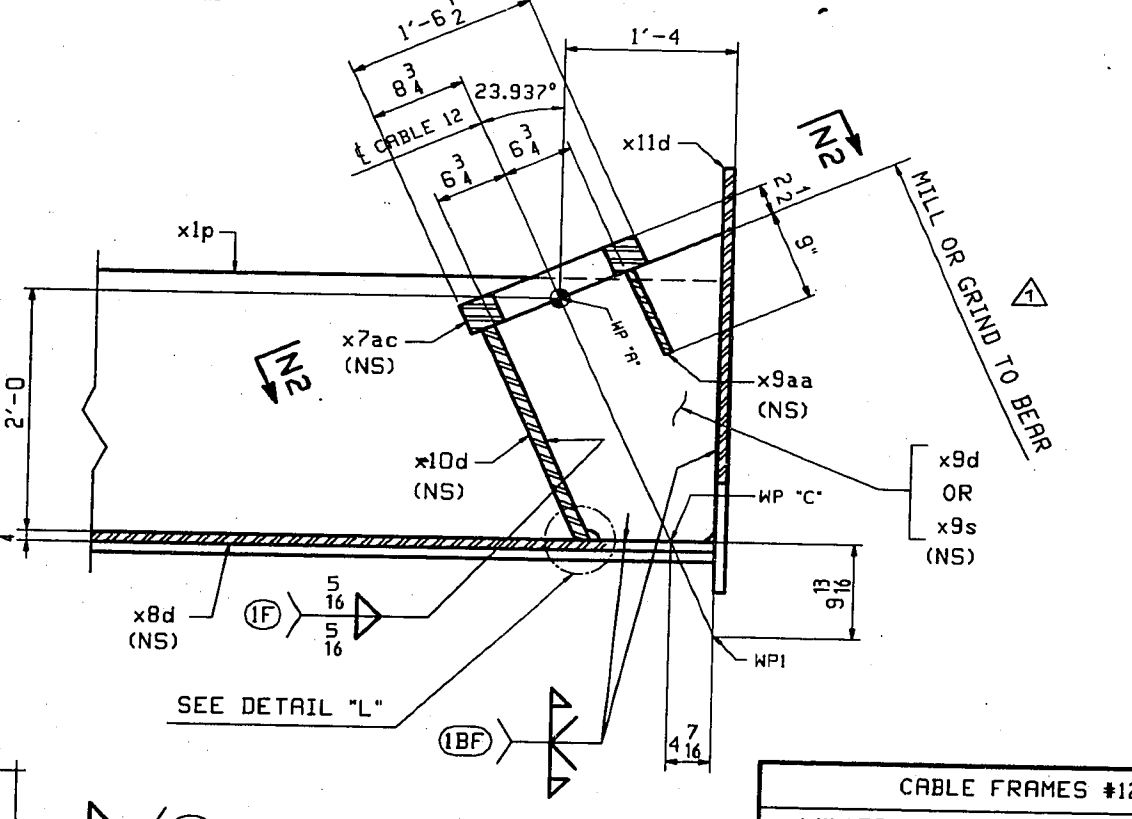
SECTION K-K  
(DEV.)



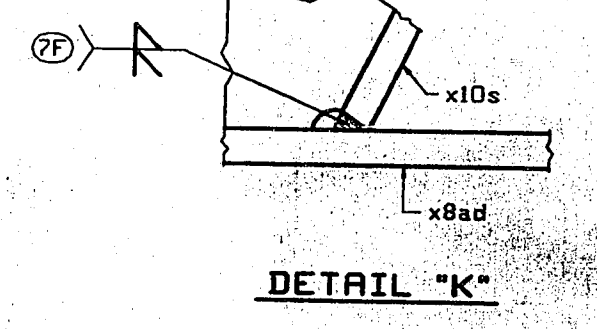
SECTION N1-N1  
(DEV.)



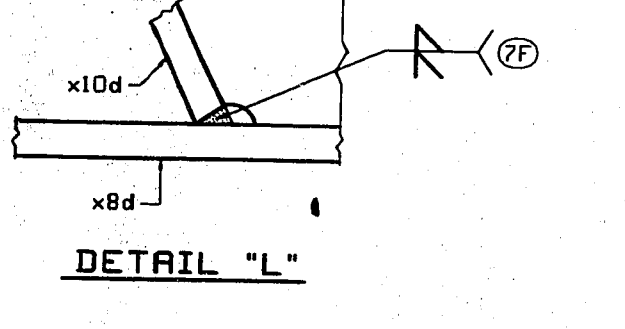
SECTION N2-N2  
(DEV.)



SECTION L-L  
(DEV.)



DETAIL "K"

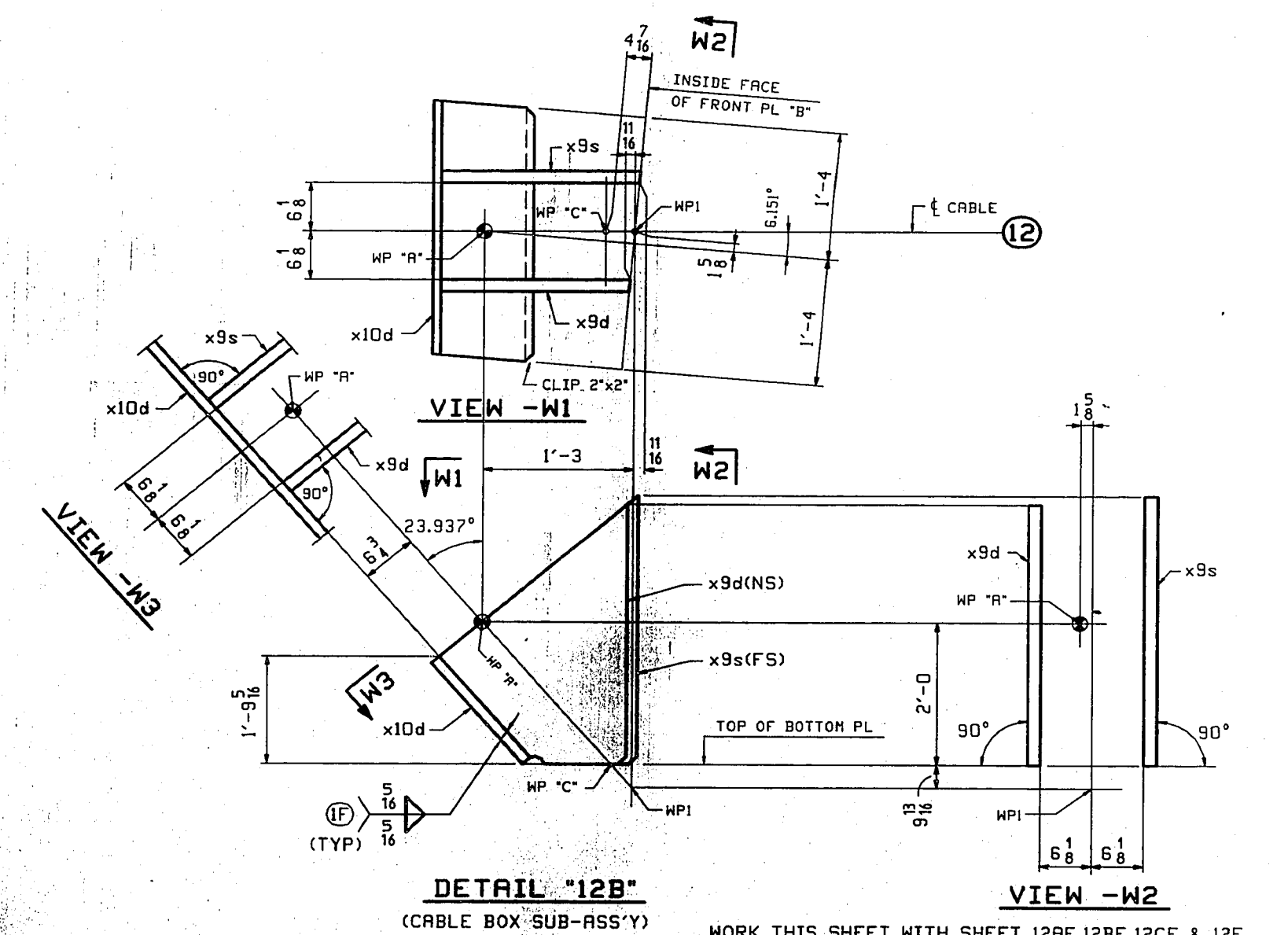
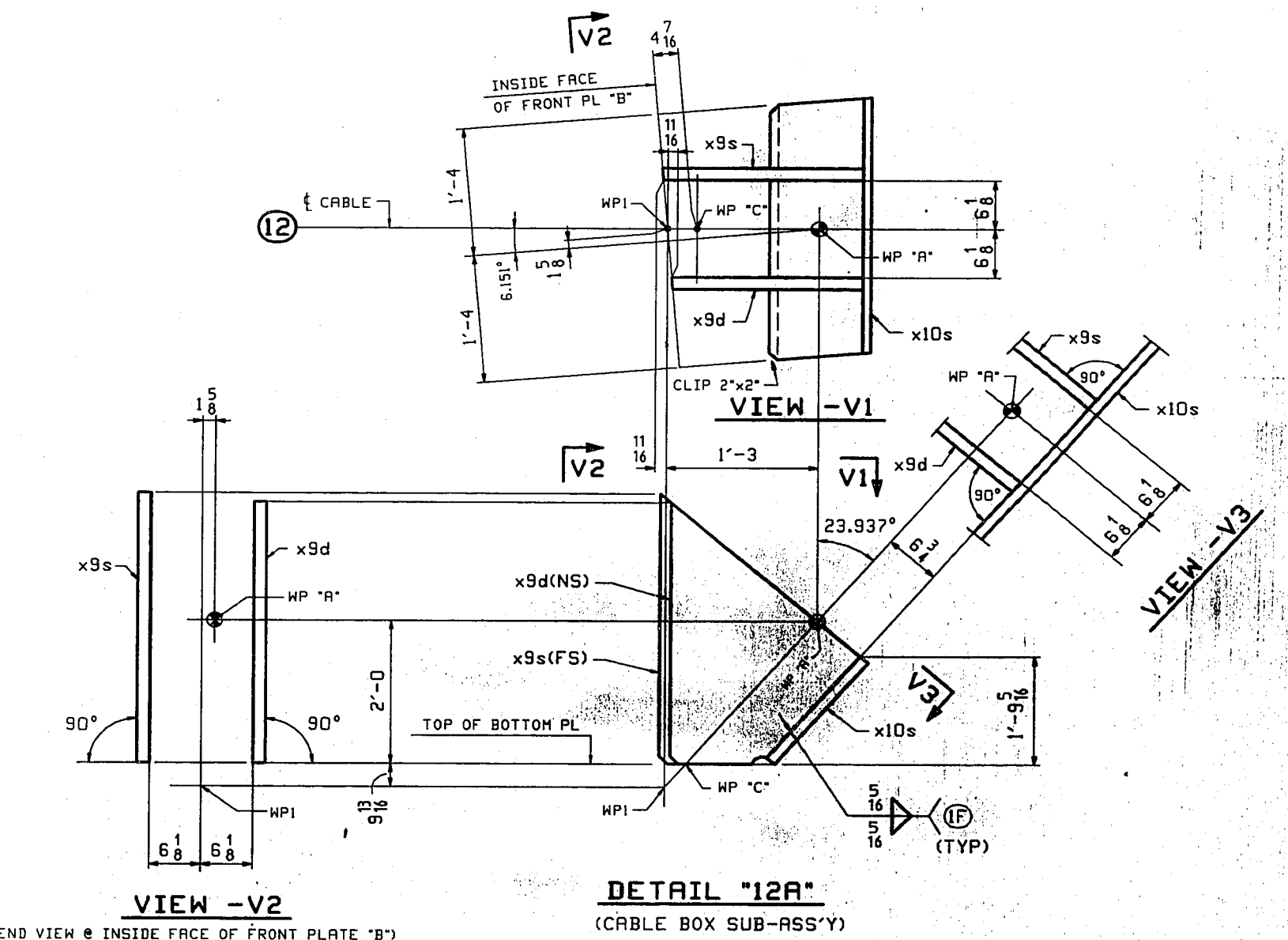
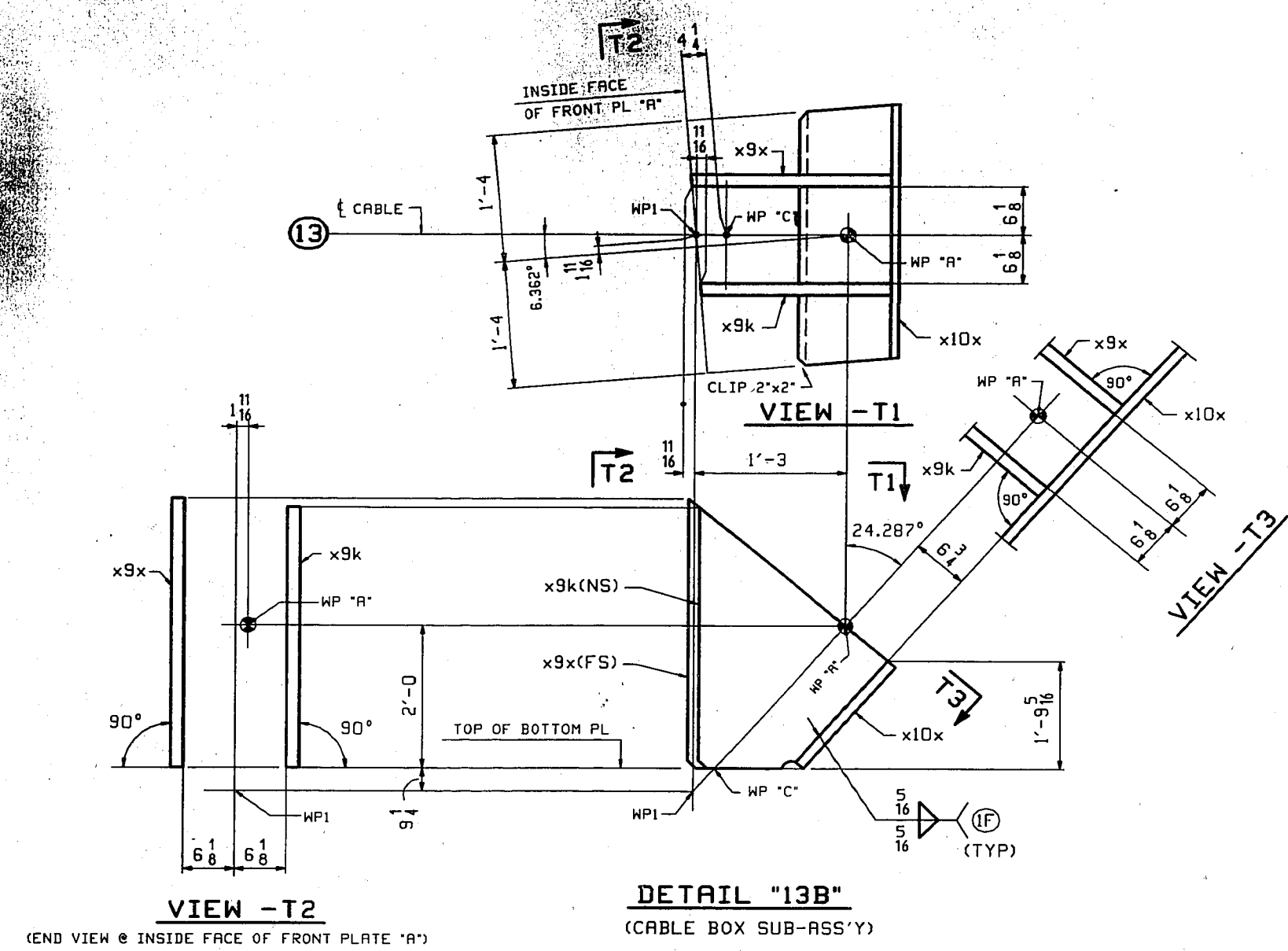
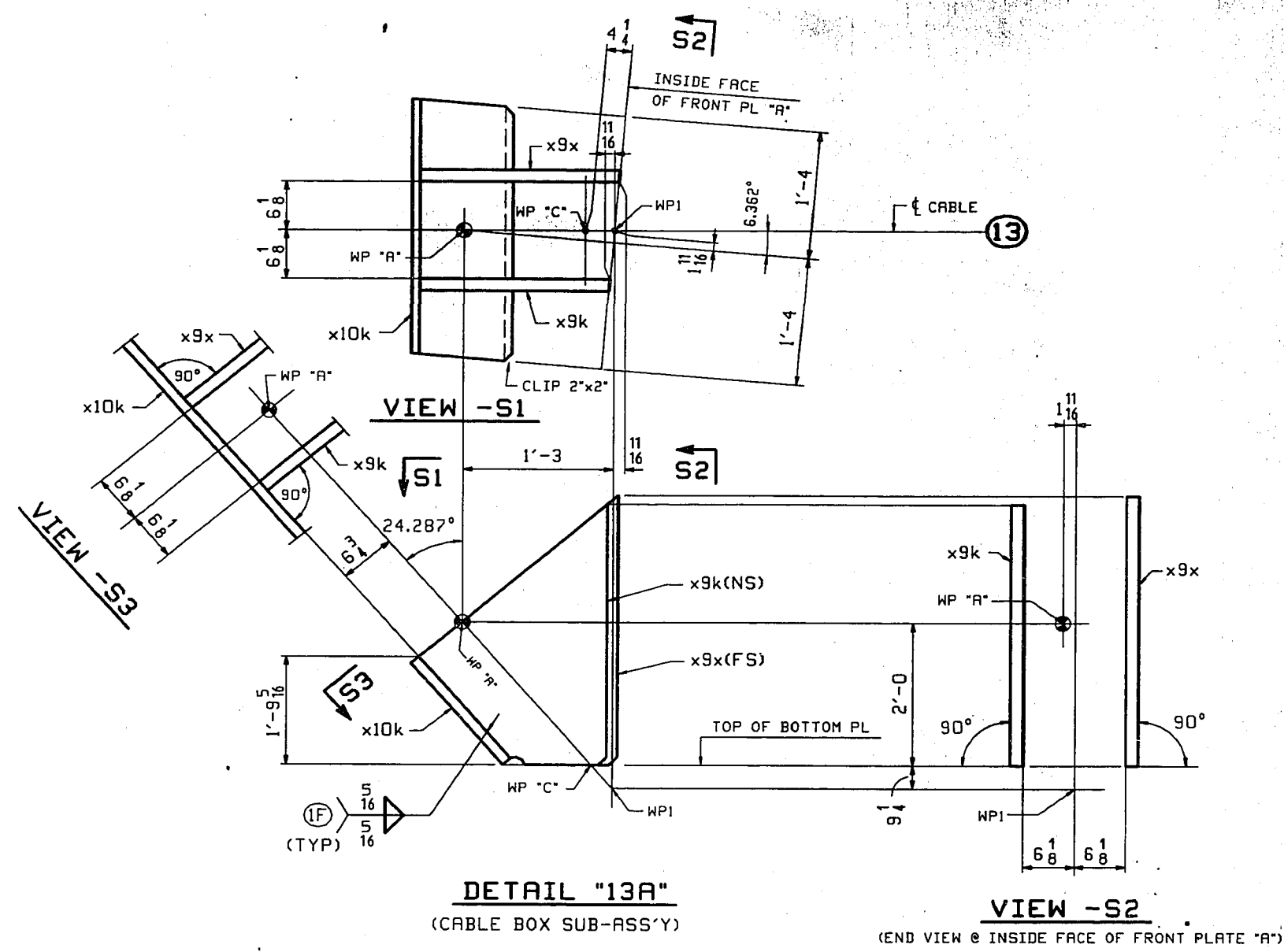


DETAIL "L"

WORK THIS SHEET WITH SHEET 12AE, 12BE, 12DE & 12E

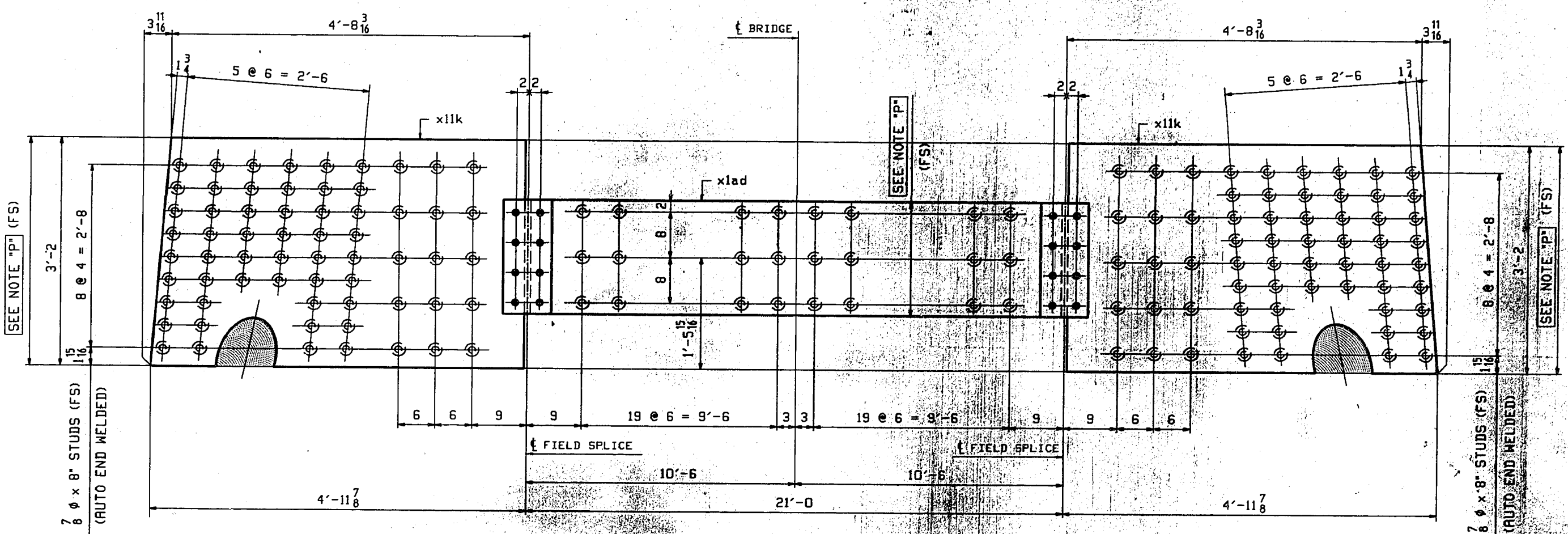
CABLE FRAMES #12			
VINCENNES STEEL CORP. VINCENNES, IND.			
Drawn	Checked	Approved	Revised
RB	TBM		RB/TBM
10/3/98	10/9/98		11/11/98
U.S. 231 OVER THE OHIO RIVER AND INDIANA 66			
KENTUCKY D.O.H. / INDIANA D.O.T.			
DAVIESS COUNTY, KY / SPENCER COUNTY, IND			
PROJ. 00K80 0001 001			
Shop	See GNI		
Edge Distance	AS NOTED	Holes	1/2" φ (UN)
Contr. No.	67	Sh. 12CE	of 77





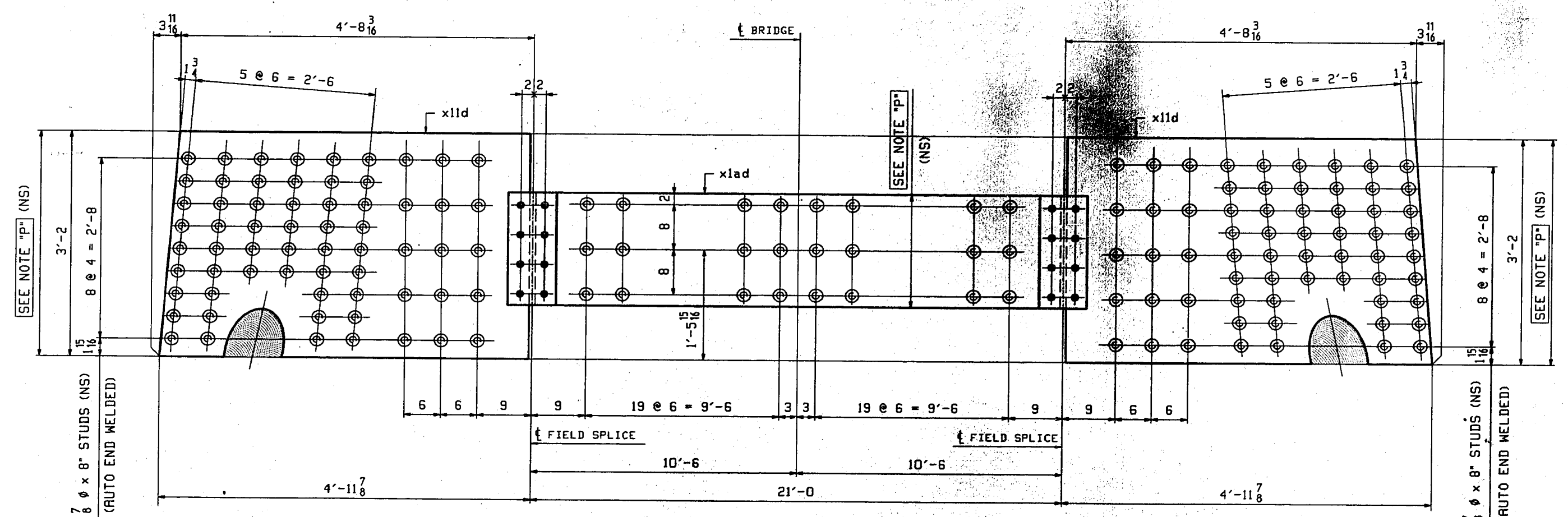
WORK THIS SHEET WITH SHEET 12AE, 12BE, 12CE & 12E.

CABLE FRAMES #12			
VINCENNES STEEL CORP. VINCENNES, IND.			
Drawn	Checked	Approved	Revised
RB	TRM		
10/3/98	10/9/98		
U.S. 231 OVER THE OHIO RIVER AND INDIANA 66 KENTUCKY D.O.H. / INDIANA D.O.T. SHAYLESS COUNTY, KY / SPENCER COUNTY, IND PROJ. 00K00 0001 001			
Shop Point SEE GNI			
Edge Distance AS NOTED		Holes 5/8" Ø (UN)	
Contr. No. 671		Sh. 12DE of	



**DETAIL "S1"**  
(INSIDE PLATES NOT SHOWN)

NOTE "P"  
EMBEDDED AREA IS TO RECEIVE 1.5 MILS OF  
PAINT THICKNESS AS DEFINED ON SHEET GMI.



**DETAIL "S2"**  
(INSIDE PLATES NOT SHOWN)

BILL OF MATERIAL							
LN	KIND	SECTION	LENGTH	REQ.	MARK	GRADE	REMARKS
1	CABLE FRAME			1	A12		ALICE EXCEPT FOR K&L SEE 6869
2	CABLE FRAME			1	C12		6869
3	PL	26 x 1	12'-10	4	x1p	H270-50 F2	8/18
4	PL	16 x 2 1/2	1'-6 1/2	4	x7ac	H270-50 F2	8/22
5	PL	32 x 1	12'-10	2	x8d	H270-50 F2	8/20
6	PL	20 1/2 x 1 1/2	2'-6 1/2	2	x9d	H270-50 F2	8/25
7	PL	20 1/2 x 1 1/2	2'-6 1/2	2	x9k	H270-50 F2	8/25
8	PL	21 1/2 x 1 1/2	2'-7 1/4	2	x9e	H270-50 F2	8/25
9	PL	21 1/2 x 1 1/2	2'-7 1/4	2	x9c	H270-50 F2	8/25
10	PL	9 x 1/2	1'-0	4	x9aa	H270-50 F2	8/25
11	PL	22 1/2 x 1	2'-9 1/2	2	x10a	H270-50 F2	8/24
12	PL	22 1/2 x 1	2'-9 1/2	2	x10d	H270-50 F2	8/24
13	PL	38 x 1	4'-11 1/2	2	x11d	H270-50 F2	8/17
14	PL	38 x 1	4'-11 1/2	2	x11k	H270-50 F2	8/17
15	CRP SCREW	3/8 #	1	16	A574		NO NUTS SOCKET HEAD 8/11
16	WASH	3/8 #	16	16	F844		8/15
17	STUD	3/8 #	8	800	A108		8/3
18							
19							
20	CABLE FRAME			1	B12		ALICE EXCEPT FOR K&L SEE 6869
21	CABLE FRAME			1	D12		6869
22	PL	26 x 1	12'-10	4	x1p	H270-50 F2	8/18
23	PL	16 x 2 1/2	1'-6 1/2	4	x7ac	H270-50 F2	8/22
24	PL	32 x 1	12'-10	2	x8d	H270-50 F2	8/20
25	PL	20 1/2 x 1 1/2	2'-6 1/2	2	x9d	H270-50 F2	8/25
26	PL	20 1/2 x 1 1/2	2'-6 1/2	2	x9k	H270-50 F2	8/25
27	PL	21 1/2 x 1 1/2	2'-7 1/4	2	x9e	H270-50 F2	8/25
28	PL	21 1/2 x 1 1/2	2'-7 1/4	2	x9c	H270-50 F2	8/25
29	PL	9 x 1/2	1'-0	4	x9aa	H270-50 F2	8/25
30	PL	22 1/2 x 1	2'-9 1/2	2	x10d	H270-50 F2	8/24
31	PL	22 1/2 x 1	2'-9 1/2	2	x10a	H270-50 F2	8/24
32	PL	38 x 1	4'-11 1/2	2	x11d	H270-50 F2	8/17
33	PL	38 x 1	4'-11 1/2	2	x11k	H270-50 F2	8/17
34	CRP SCREW	3/8 #	1	16	A574		NO NUTS SOCKET HEAD 8/11
35	WASH	3/8 #	16	16	F844		8/15
36	STUD	3/8 #	8	800	A108		8/3
37							
38							
39	TIE PLATE			1	E12		ALICE EXCEPT FOR K&L SEE 1696
40	TIE PLATE			1	F12		1696
41	TIE PLATE			1	G12		1696
42	TIE PLATE			1	H12		1696
43	PL	20 x 1/2	8	16	x1f	H270-50 F2	8/21
44	PL	20 x 1	20'-11 1/2	4	x1sd	H270-50 F2	8/18
45	STUD	3/8 #	8	480	A108		8/3
46							
47							
48							
49							
50							
51							
52							
53							
54							
55							

CABLE FRAMES #12

**VINCENNES STEEL CORP.**  
VINCENNES, IND.

Drawn	Checked	Approved	Revised
TJB	TJB		
10/3/88	10/3/88		

U.S. 231 OVER THE OHIO RIVER AND INDIANA 66  
KENTUCKY D.O.H. / INDIANA D.O.T.  
DAVIESS COUNTY, KY / SPENCER COUNTY, IND  
PROJ. 00KBD 00101 001

Shop Point SEC GMI

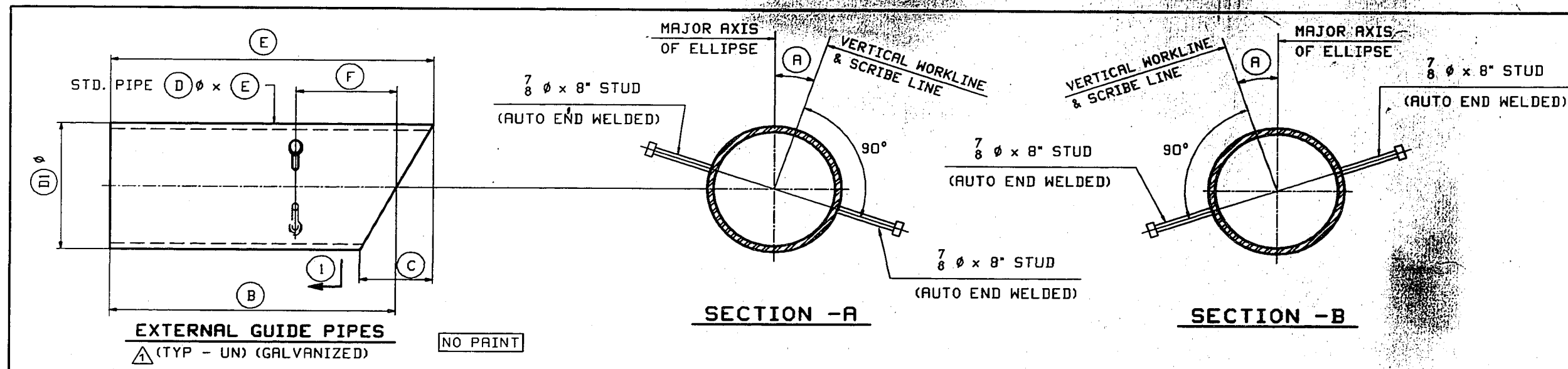
Edge Distance AS NOTED Notes: 1/2" # (LUN)

Contr. No. 671 Sh. 12E of

WORK THIS SHEET WITH SHEET 12AE, 12BE, 12CE & 12DE.

TENSOR 1821-1





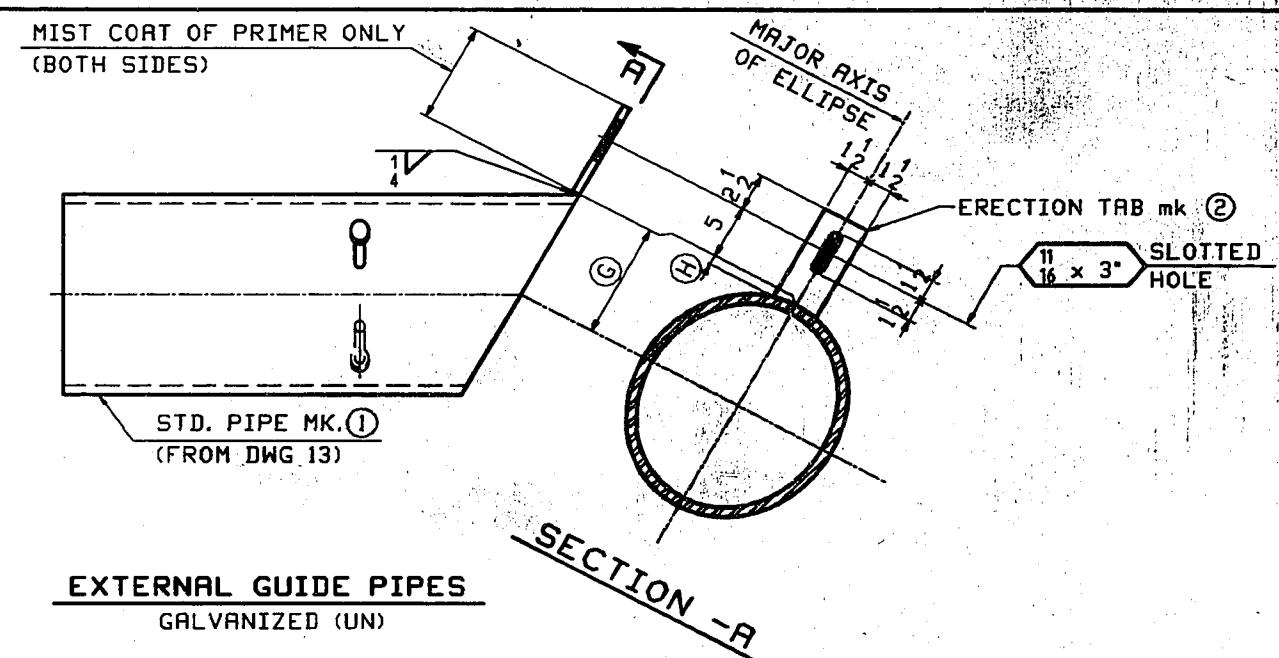
MARK	NO.	RECD	SECT.	(A)	(B)	(C)	(D)	(E)	(F)	PG/LN	
A13	2	A		7.794°	2'-9 1/8"	8 3/4"	1'-4"	1'-4"	3'-2 1/4"	1'-0 1/8"	11/4
B13	2	A		8.000°	2'-9"	8 1/4"	1'-6"	1'-6"	3'-1 1/8"	1'-0 3/8"	11/3
C13	2	A		7.847°	2'-9 1/8"	8 1/4"	1'-4"	1'-4"	3'-2 1/4"	1'-0 1/8"	11/4
D13	2	A		8.188°	2'-8 7/8"	7 3/4"	1'-4"	1'-4"	3'-0 3/4"	1'-5 1/8"	11/4
E13	2	A		7.947°	2'-10 3/8"	9 1/8"	1'-6"	1'-6"	3'-3 1/4"	1'-0 1/2"	11/3
F13	2	A		8.365°	2'-9 1/4"	8 3/8"	1'-4"	1'-4"	3'-1 7/8"	1'-0 3/8"	11/4
G13	2	A		8.161°	2'-9 1/8"	8 3/8"	1'-2"	1'-2"	3'-2"	1'-0 1/2"	11/5
H13	2	A		8.582°	2'-9 7/8"	8 1/8"	1'-4"	1'-4"	3'-2 1/4"	1'-0 3/8"	11/4
I13	2	A		8.454°	2'-10 5/8"	8 3/4"	1'-2"	1'-2"	3'-3"	1'-1"	11/5
J13	2	A		8.863°	2'-9 15/16"	8 1/8"	1'-2"	1'-2"	3'-2 1/8"	1'-0 1/2"	11/5
K13	2	A		8.820°	2'-11 7/16"	9 7/16"	1'-2"	1'-2"	3'-4 3/16"	1'-1 5/16"	11/5
L13	2	A		9.185°	2'-10 11/16"	8 1/8"	1'-2"	1'-2"	3'-3 5/8"	1'-1 1/8"	11/5
M13	2	A		9.281°	3'-0 5/8"	10 3/8"	1'-2"	1'-2"	3'-5 13/16"	1'-1 11/16"	11/5
N13	2	A		9.613°	2'-11 1/2"	9"	1'-0 1/2"	1'-0"	3'-4"	1'-1 1/4"	11/6
P13	2	A		9.894°	3'-1 1/16"	10 5/8"	1'-0 1/2"	1'-0"	3'-7"	1'-2 1/4"	11/6
Q13	2	A		10.177°	3'-1 1/8"	10 5/8"	1'-0"	1'-0"	3'-6 5/8"	1'-2 1/8"	11/6
R13	2	A		10.594°	3'-4 1/8"	11'-0 1/4"	1'-0 1/4"	1'-0"	3'-10 5/16"	1'-3 5/16"	11/6
S13	2	A		10.827°	3'-3 3/8"	11 1/8"	1'-0 1/2"	1'-0"	3'-9 3/8"	1'-3"	11/6
T13	2	A		11.935°	3'-8"	11'-2 1/8"	1'-0 1/4"	1'-0"	4'-3 3/8"	1'-4 7/8"	11/7
V13	2	A		12.116°	3'-7 5/8"	11'-2 3/8"	1'-0 1/2"	1'-0"	4'-2 7/8"	1'-4 1/8"	11/7
W13	2	A		14.365°	4'-1 3/4"	11'-4 5/8"	10 3/4"	10	4'-9 7/8"	1'-7 1/8"	11/9
X13	2	A		14.494°	4'-1"	11'-3 3/8"	10 3/4"	10	4'-8 5/8"	1'-7 3/8"	11/9
Y13	2	C		19.761°	9 1/8"	3 3/8"	1'-0 1/4"	1'-0"	3'-9 1/8"		11/8
Z13	2	C		19.831°	9 3/8"	3 1/8"	1'-0 1/4"	1'-0"	3'-9 3/8"		11/8

BILL OF MATERIAL										BILL OF MATERIAL									
LN	KIND	SECTION	LENGTH	REQ.	MARK	GRADE	REMARKS	LN	KIND	SECTION	LENGTH	REQ.	MARK	GRADE	REMARKS				
51	GUIDE PIPES						(GALVANIZED)	1	GUIDE PIPES						(GALVANIZED)				
52	P140	16 #	3'-2 1/4"	2	AR13	AS3	TYPE E, GR B	2	P140	16 #	3'-2 1/4"	2	A13	AS3	TYPE E, GR B				
53	STUD	7 #	8"	4	A108			3	STUD	7 #	8"	4	A108						
54	P140	18 #	3'-1 1/8"	2	AR13	AS3	TYPE E, GR B	4	P140	18 #	3'-1 1/8"	2	B13	AS3	TYPE E, GR B				
55	STUD	7 #	8"	4	A108			5	STUD	7 #	8"	4	A108						
56	P140	16 #	3'-2 1/4"	2	AC13	AS3	TYPE E, GR B	6	P140	16 #	3'-2 1/4"	2	C13	AS3	TYPE E, GR B				
57	STUD	7 #	8"	4	A108			7	STUD	7 #	8"	4	A108						
58	P140	16 #	3'-0 1/2"	2	AD13	AS3	TYPE E, GR B	8	P140	16 #	3'-0 1/2"	2	D13	AS3	TYPE E, GR B				
59	STUD	7 #	8"	4	A108			9	STUD	7 #	8"	4	A108						
60	P140	18 #	3'-3 1/4"	2	AE13	AS3	TYPE E, GR B	10	P140	18 #	3'-3 1/4"	2	E13	AS3	TYPE E, GR B				
61	STUD	7 #	8"	4	A108			11	STUD	7 #	8"	4	A108						
62	P140	16 #	3'-1 1/4"	2	AF13	AS3	TYPE E, GR B	12	P140	16 #	3'-1 1/4"	2	F13	AS3	TYPE E, GR B				
63	STUD	7 #	8"	4	A108			13	STUD	7 #	8"	4	A108						
64	P140	14 #	3'-2"	2	AG13	AS3	TYPE E, GR B	14	P140	14 #	3'-2"	2	G13	AS3	TYPE E, GR B				
65	STUD	7 #	8"	4	A108			15	STUD	7 #	8"	4	A108						
66	P140	16 #	3'-2 1/4"	2	AH13	AS3	TYPE E, GR B	16	P140	16 #	3'-2 1/4"	2	H13	AS3	TYPE E, GR B				
67	STUD	7 #	8"	4	A108			17	STUD	7 #	8"	4	A108						
68	P140	14 #	3'-3"	2	AI13	AS3	TYPE E, GR B	18	P140	14 #	3'-3"	2	I13	AS3	TYPE E, GR B				
69	STUD	7 #	8"	4	A108			19	STUD	7 #	8"	4	A108						
70	P140	14 #	3'-2 1/8"	2	AJ13	AS3	TYPE E, GR B	20	P140	14 #	3'-2 1/8"	2	J13	AS3	TYPE E, GR B				
71	STUD	7 #	8"	4	A108			21	STUD	7 #	8"	4	A108						
72	P140	14 #	3'-4 1/8"	2	AK13	AS3	TYPE E, GR B	22	P140	14 #	3'-4 1/8"	2	K13	AS3	TYPE E, GR B				
73	STUD	7 #	8"	4	A108			23	STUD	7 #	8"	4	A108						
74	P140	14 #	3'-3 5/8"	2	AL13	AS3	TYPE E, GR B	24	P140	14 #	3'-3 5/8"	2	L13	AS3	TYPE E, GR B				
75	STUD	7 #	8"	4	A108			25	STUD	7 #	8"	4	A108						
76	P140	14 #	3'-5 1/4"	2	AM13	AS3	TYPE E, GR B	26	P140	14 #	3'-5 1/4"	2	M13	AS3	TYPE E, GR B				
77	STUD	7 #	8"	4	A108			27	STUD	7 #	8"	4	A108						
78	P140	12 #	3'-4"	2	AN13	AS3	TYPE E, GR B	28	P140	12 #	3'-4"	2	N13	AS3	TYPE E, GR B				
79	STUD	7 #	8"	4	A108			29	STUD	7 #	8"	4	A108						
80	P140	12 #	3'-7"	2	AP13	AS3	TYPE E, GR B	30	P140	12 #	3'-7"	2	P13	AS3	TYPE E, GR B				
81	STUD	7 #	8"	4	A108			31	STUD	7 #	8"	4	A108						
82	P140	12 #	3'-6 1/2"	2	AQ13	AS3	TYPE E, GR B	32	P140	12 #	3'-6 1/2"	2	Q13	AS3	TYPE E, GR B				
83	STUD	7 #	8"	4	A108			33	STUD	7 #	8"	4	A108						
84	P140	12 #	3'-10 5/8"	2	AR13	AS3	TYPE E, GR B	34	P140	12 #	3'-10 5/8"	2	R13	AS3	TYPE E, GR B				
85	STUD	7 #	8"	4	A108			35	STUD	7 #	8"	4	A108						
86	P140	12 #	3'-9 3/8"	2	AS13	AS3	TYPE E, GR B	36	P140	12 #	3'-9 3/8"	2	S13	AS3	TYPE E, GR B				
87	STUD	7 #	8"	4	A108			37	STUD	7 #	8"	4	A108						
88	P140	12 #	4'-3 3/8"	2	AT13	AS3	TYPE E, GR B	38	P140	12 #	4'-3 3/8"	2	T13	AS3	TYPE E, GR B				
89	STUD	7 #	8"	4	A108			39	STUD	7 #	8"	4	A108						
90	P140	12 #	4'-2 1/2"	2	AV13	AS3	TYPE E, GR B	40	P140	12 #	4'-2 1/2"	2	V13	AS3	TYPE E, GR B				
91	STUD	7 #	8"	4	A108			41	STUD	7 #	8"	4	A108						
92	P140	10 #	4'-9 3/8"	2	AW13	AS3	TYPE E, GR B	42	P140	10 #	4'-9 3/8"	2	W13	AS3	TYPE E, GR B				
93	STUD	7 #	8"	4	A108			43	STUD	7 #	8"	4	A108						
94	P140	10 #	4'-8 1/8"	2	AX13	AS3	TYPE E, GR B	44	P140	10 #	4'-8 1/8"	2	X13	AS3	TYPE E, GR B				
95	STUD	7 #	8"	4	A108			45	STUD	7 #	8"	4	A108						
96	P140	12 #	3'-9 3/4"	2	AY13	AS3	TYPE E, GR B	46	P140	12 #	3'-9 3/4"	2	Y13	AS3	TYPE E, GR B				
97	STUD	7 #	8"	4	A108			47	STUD	7 #	8"	4	A108						
98	P140	12 #	3'-9 3/8"	2	AZ13	AS3	TYPE E, GR B	48	P140	12 #	3'-9 3/8"	2	Z13	AS3	TYPE E, GR B				
99	STUD	7 #	8"	4	A108			49	STUD	7 #	8"	4	A108						
100								50											

- NOTES:
- FOR GENERAL NOTES SEE SHEET GNI.
  - ALL MATERIAL TO BE ASTM A53 TYPE E, GRADE B (UN).
  - ALL PIPES SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A123 AFTER FABRICATION.

DO NOT SHIP FROM THIS SHEET.  
WORK THIS SHEET WITH SHEET 13R.

EXTERNAL GUIDE PIPES			
VINCENNES STEEL CORP. VINCENNES, IND.			
Drawn	Checked	Approved	Revised
RB	TRM		ML/HRJ
10/4/98	10/9/98		8/27/98
U.S. 231 OVER THE OHIO RIVER AND INDIANA 65 KENTUCKY D.O.H. / INDIANA D.O.T. DAVIESS COUNTY, KY / SPENCER COUNTY, IND PROJ. 00KBD 00101 DDI			
Shop Print SEE GNI			
Edge Distance AS NOTED Holes: 1/2" φ (UN)			
Contr. No. 671			Sl. 13 of 80



MK. ①	NO. REQ'D	mk. ②	G	H	
A13	2	b13	9 1/8	3/16	(@ STAY 1)
B13	2	a13	9 15/16	1/8	(@ STAY 24)
C13	2	b13	9 8/8	3/16	(@ STAY 2)
D13	2	b13	8 7/8	3/16	(@ STAY 23)
E13	2	a13	10 1/4	1/8	(@ STAY 3)
F13	2	b13	9	3/16	(@ STAY 22)
G13	2	b13	8 1/8	3/16	(@ STAY 4)
H13	2	b13	9 1/8	3/16	(@ STAY 21)
I13	2	b13	8 1/4	3/16	(@ STAY 5)
J13	2	b13	8 1/8	3/16	(@ STAY 20)
K13	2	b13	8 7/16	3/16	(@ STAY 6)
L13	2	b13	8 5/16	3/16	(@ STAY 19)
M13	2	b13	8 11/16	3/16	(@ STAY 7)
N13	2	c13	7 13/16	1/4	(@ STAY 18)
P13	2	c13	8 5/16	1/4	(@ STAY 8)
Q13	2	c13	8 1/8	1/4	(@ STAY 17)
R13	2	c13	8 7/8	1/4	(@ STAY 9)
S13	2	c13	8 11/16	1/4	(@ STAY 16)
T13	2	c13	9 3/4	1/4	(@ STAY 10)
V13	2	c13	9 9/16	1/4	(@ STAY 15)
W13	2	d13	9 3/4	3/8	(@ STAY 11)
X13	2	d13	9 9/16	3/8	(@ STAY 14)
Y13	2	d13	1'-3 11/16	3/8	(@ STAY 12)
Z13	2	d13	1'-3 1/2	3/8	(@ STAY 13)

MK. ①	NO. REQ'D	mk. ②	G	H	
AA13	2	b13	9 1/8	3/16	
AB13	2	a13	9 15/16	1/8	
AC13	2	b13	9 8/8	3/16	
AD13	2	b13	8 7/8	3/16	
AE13	2	a13	10 1/4	1/8	
AF13	2	b13	9	3/16	
AG13	2	b13	8 1/8	3/16	
AH13	2	b13	9 1/8	3/16	
AI13	2	b13	8 1/4	3/16	
AJ13	2	b13	8 1/8	3/16	
AK13	2	b13	8 7/16	3/16	
AL13	2	b13	8 5/16	3/16	
AM13	2	b13	8 11/16	3/16	
AN13	2	c13	7 13/16	1/4	
AP13	2	c13	8 5/16	1/4	
AQ13	2	c13	8 1/8	1/4	
AR13	2	c13	8 7/8	1/4	
AS13	2	c13	8 11/16	1/4	
AT13	2	c13	9 3/4	1/4	
AV13	2	c13	9 9/16	1/4	
AW13	2	d13	9 3/4	3/8	
AX13	2	d13	9 9/16	3/8	
AY13	2	d13	1'-3 11/16	3/8	
AZ13	2	d13	1'-3 1/2	3/8	

LN	KIND	SECTION	LENGTH	REQ.	MARK	GRADE	REMARKS
S1		GUIDE PIPES					
S2		GUIDE PIPE ASSY		2	AA13		204 FROM DWG 13
S3	PL	3x8	7 1/4	2	b13	M270-36	ERECTOR TAB 12/2 FROM DWG 13
S4		GUIDE PIPE ASSY		2	AB13		223 FROM DWG 13
S5	PL	3x8	7 1/4	2	a13	M270-36	ERECTOR TAB 12/2 FROM DWG 13
S6		GUIDE PIPE ASSY		2	AC13		204 FROM DWG 13
S7	PL	3x8	7 1/4	2	b13	M270-36	ERECTOR TAB 12/2 FROM DWG 13
S8		GUIDE PIPE ASSY		2	AD13		197 FROM DWG 13
S9	PL	3x8	7 1/4	2	b13	M270-36	ERECTOR TAB 12/2 FROM DWG 13
S10		GUIDE PIPE ASSY		2	AE13		236 FROM DWG 13
S11	PL	3x8	7 1/4	2	a13	M270-36	ERECTOR TAB 12/2 FROM DWG 13
S12		GUIDE PIPE ASSY		2	AF13		200 FROM DWG 13
S13	PL	3x8	7 1/4	2	b13	M270-36	ERECTOR TAB 12/2 FROM DWG 13
S14		GUIDE PIPE ASSY		2	AG13		179 FROM DWG 13
S15	PL	3x8	7 1/4	2	b13	M270-36	ERECTOR TAB 12/2 FROM DWG 13
S16		GUIDE PIPE ASSY		2	AH13		214 FROM DWG 13
S17	PL	3x8	7 1/4	2	b13	M270-36	ERECTOR TAB 12/2 FROM DWG 13
S18		GUIDE PIPE ASSY		2	AI13		192 FROM DWG 13
S19	PL	3x8	7 1/4	2	b13	M270-36	ERECTOR TAB 12/2 FROM DWG 13
S20		GUIDE PIPE ASSY		2	AJ13		176 FROM DWG 13
S21	PL	3x8	7 1/4	2	b13	M270-36	ERECTOR TAB 12/2 FROM DWG 13
S22		GUIDE PIPE ASSY		2	AK13		188 FROM DWG 13
S23	PL	3x8	7 1/4	2	b13	M270-36	ERECTOR TAB 12/2 FROM DWG 13
S24		GUIDE PIPE ASSY		2	AL13		184 FROM DWG 13
S25	PL	3x8	7 1/4	2	b13	M270-36	ERECTOR TAB 12/2 FROM DWG 13
S26		GUIDE PIPE ASSY		2	AM13		195 FROM DWG 13
S27	PL	3x8	7 1/4	2	b13	M270-36	ERECTOR TAB 12/2 FROM DWG 13
S28		GUIDE PIPE ASSY		2	AN13		170 FROM DWG 13
S29	PL	3x8	7 1/4	2	c13	M270-36	ERECTOR TAB 12/2 FROM DWG 13
S30		GUIDE PIPE ASSY		2	AP13		183 FROM DWG 13
S31	PL	3x8	7 1/4	2	c13	M270-36	ERECTOR TAB 12/2 FROM DWG 13
S32		GUIDE PIPE ASSY		2	AQ13		179 FROM DWG 13
S33	PL	3x8	7 1/4	2	c13	M270-36	ERECTOR TAB 12/2 FROM DWG 13
S34		GUIDE PIPE ASSY		2	AR13		196 FROM DWG 13
S35	PL	3x8	7 1/4	2	c13	M270-36	ERECTOR TAB 12/2 FROM DWG 13
S36		GUIDE PIPE ASSY		2	AS13		192 FROM DWG 13
S37	PL	3x8	7 1/4	2	c13	M270-36	ERECTOR TAB 12/2 FROM DWG 13
S38		GUIDE PIPE ASSY		2	AT13		217 FROM DWG 13
S39	PL	3x8	7 1/4	2	c13	M270-36	ERECTOR TAB 12/2 FROM DWG 13
S40		GUIDE PIPE ASSY		2	AV13		213 FROM DWG 13
S41	PL	3x8	7 1/4	2	c13	M270-36	ERECTOR TAB 12/2 FROM DWG 13
S42		GUIDE PIPE ASSY		2	AW13		200 FROM DWG 13
S43	PL	3x8	7 1/4	2	d13	M270-36	ERECTOR TAB 12/2 FROM DWG 13
S44		GUIDE PIPE ASSY		2	AX13		197 FROM DWG 13
S45	PL	3x8	7 1/4	2	d13	M270-36	ERECTOR TAB 12/2 FROM DWG 13
S46		GUIDE PIPE ASSY		2	AY13		245 FROM DWG 13
S47	PL	3x8	7 1/4	2	d13	M270-36	ERECTOR TAB 12/2 FROM DWG 13
S48		GUIDE PIPE ASSY		2	AZ13		241 FROM DWG 13
S49	PL	3x8	7 1/4	2	d13	M270-36	ERECTOR TAB 12/2 FROM DWG 13
S50		GUIDE PIPE ASSY		2			

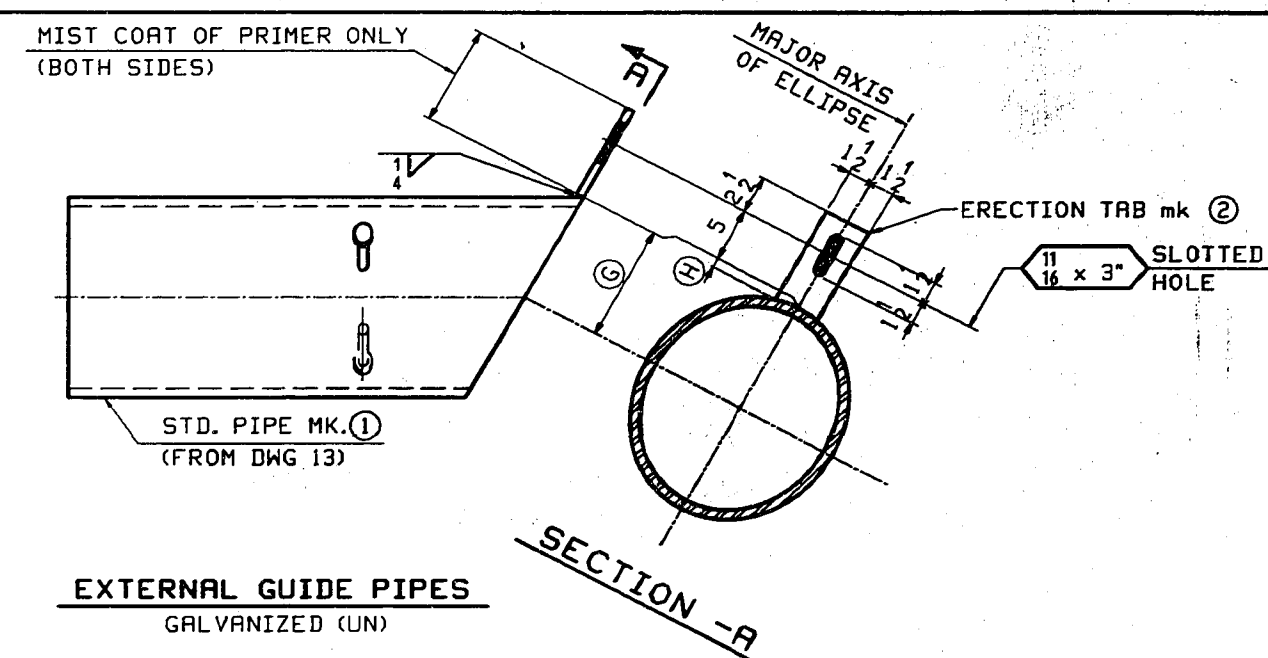
LN	KIND	SECTION	LENGTH	REQ.	MARK	GRADE	REMARKS
1		GUIDE PIPES					
2		GUIDE PIPE ASSY		2	A13		204 FROM DWG 13
3	PL	3x8	7 1/4	2	b13	M270-36	ERECTOR TAB 12/2 FROM DWG 13
4		GUIDE PIPE ASSY		2	B13		223 FROM DWG 13
5	PL	3x8	7 1/4	2	a13	M270-36	ERECTOR TAB 12/2 FROM DWG 13
6		GUIDE PIPE ASSY		2	C13		204 FROM DWG 13
7	PL	3x8	7 1/4	2	b13	M270-36	ERECTOR TAB 12/2 FROM DWG 13
8		GUIDE PIPE ASSY		2	D13		197 FROM DWG 13
9	PL	3x8	7 1/4	2	b13	M270-36	ERECTOR TAB 12/2 FROM DWG 13
10		GUIDE PIPE ASSY		2	E13		236 FROM DWG 13
11	PL	3x8	7 1/4	2	a13	M270-36	ERECTOR TAB 12/2 FROM DWG 13
12		GUIDE PIPE ASSY		2	F13		200 FROM DWG 13
13	PL	3x8	7 1/4	2	b13	M270-36	ERECTOR TAB 12/2 FROM DWG 13
14		GUIDE PIPE ASSY		2	G13		179 FROM DWG 13
15	PL	3x8	7 1/4	2	b13	M270-36	ERECTOR TAB 12/2 FROM DWG 13
16		GUIDE PIPE ASSY		2	H13		214 FROM DWG 13
17	PL	3x8	7 1/4	2	b13	M270-36	ERECTOR TAB 12/2 FROM DWG 13
18		GUIDE PIPE ASSY		2	I13		192 FROM DWG 13
19	PL	3x8	7 1/4	2	b13	M270-36	ERECTOR TAB 12/2 FROM DWG 13
20		GUIDE PIPE ASSY		2	J13		176 FROM DWG 13
21	PL	3x8	7 1/4	2	b13	M270-36	ERECTOR TAB 12/2 FROM DWG 13
22		GUIDE PIPE ASSY		2	K13		188 FROM DWG 13
23	PL	3x8	7 1/4	2	b13	M270-36	ERECTOR TAB 12/2 FROM DWG 13
24		GUIDE PIPE ASSY		2	L13		184 FROM DWG 13
25	PL	3x8	7 1/4	2	b13	M270-36	ERECTOR TAB 12/2 FROM DWG 13
26		GUIDE PIPE ASSY		2	M13		195 FROM DWG 13
27	PL	3x8	7 1/4	2	b13	M270-36	ERECTOR TAB 12/2 FROM DWG 13
28		GUIDE PIPE ASSY		2	N13		170 FROM DWG 13
29	PL	3x8	7 1/4	2	c13	M270-36	ERECTOR TAB 12/2 FROM DWG 13
30		GUIDE PIPE ASSY		2	P13		183 FROM DWG 13
31	PL	3x8	7 1/4	2	c13	M270-36	ERECTOR TAB 12/2 FROM DWG 13
32		GUIDE PIPE ASSY		2	Q13		179 FROM DWG 13
33	PL	3x8	7 1/4	2	c13	M270-36	ERECTOR TAB 12/2 FROM DWG 13
34		GUIDE PIPE ASSY		2	R13		196 FROM DWG 13
35	PL	3x8	7 1/4	2	c13	M270-36	ERECTOR TAB 12/2 FROM DWG 13
36		GUIDE PIPE ASSY		2	S13		192 FROM DWG 13
37	PL	3x8	7 1/4	2	c13	M270-36	ERECTOR TAB 12/2 FROM DWG 13
38		GUIDE PIPE ASSY		2	T13		217 FROM DWG 13
39	PL	3x8	7 1/4	2	c13	M270-36	ERECTOR TAB 12/2 FROM DWG 13
40		GUIDE PIPE ASSY		2	V13		213 FROM DWG 13
41	PL	3x8	7 1/4	2	c13	M270-36	ERECTOR TAB 12/2 FROM DWG 13
42		GUIDE PIPE ASSY		2	W13		200 FROM DWG 13
43	PL	3x8	7 1/4	2	d13	M270-36	ERECTOR TAB 12/2 FROM DWG 13
44		GUIDE PIPE ASSY		2	X13		197 FROM DWG 13
45	PL	3x8	7 1/4	2	d13	M270-36	ERECTOR TAB 12/2 FROM DWG 13
46		GUIDE PIPE ASSY		2	Y13		245 FROM DWG 13
47	PL	3x8	7 1/4	2	d13	M270-36	ERECTOR TAB 12/2 FROM DWG 13
48		GUIDE PIPE ASSY		2	Z13		241 FROM DWG 13
49	PL	3x8	7 1/4	2	d13	M270-36	ERECTOR TAB 12/2 FROM DWG 13
S50		GUIDE PIPE ASSY		2			

WORK THIS SHEET WITH SHEET 13.

EXTERNAL GUIDE PIPE ASSEMBLIES  
**VINCENNES STEEL CORP.**  
 VINCENNES, IND.

Drawn	Checked	Approved	Revised
ML 9/27/99	MNJ 9/25/99		
U.S. 231 OVER THE OHIO RIVER AND INDIANA 66 KENTUCKY D.O.H. / INDIANA D.O.T. DARVESS COUNTY, KY / SPENCER COUNTY, IND PROJ. 00KBD 00101 001			
Shop Point SEE GNI			
Edge Distance AS NOTED Holes: 1/4" (UN)			
Contr. No. 671	Sh. 13A of		





EXTERNAL GUIDE PIPES GALVANIZED (UN)

MK. ①	NO. REOD	mk. ②	③	④	
A13	2	b13	9 1/8	3 1/16	(@ STAY 1)
B13	2	a13	9 5/16	1 8	(@ STAY 24)
C13	2	b13	9 1/8	3 1/16	(@ STAY 2)
D13	2	b13	8 7/8	3 1/16	(@ STAY 23)
E13	2	a13	10 1/4	1 8	(@ STAY 3)
F13	2	b13	9	3 1/16	(@ STAY 22)
G13	2	b13	8 1/8	3 1/16	(@ STAY 4)
H13	2	b13	9 1/8	3 1/16	(@ STAY 21)
I13	2	b13	8 1/4	3 1/16	(@ STAY 5)
J13	2	b13	8 1/8	3 1/16	(@ STAY 20)
K13	2	b13	8 7/16	3 1/16	(@ STAY 6)
L13	2	b13	8 5/16	3 1/16	(@ STAY 19)
M13	2	b13	8 11/16	3 1/16	(@ STAY 7)
N13	2	c13	7 13/16	1 4	(@ STAY 18)
P13	2	c13	8 5/16	1 4	(@ STAY 8)
Q13	2	c13	8 1/8	1 4	(@ STAY 17)
R13	2	c13	8 7/8	1 4	(@ STAY 9)
S13	2	c13	8 11/16	1 4	(@ STAY 16)
T13	2	c13	9 3/4	1 4	(@ STAY 10)
V13	2	c13	9 9/16	1 4	(@ STAY 15)
W13	2	d13	9 3/4	3 8	(@ STAY 11)
X13	2	d13	9 9/16	3 8	(@ STAY 14)
Y13	2	d13	1'-3 1/16	3 8	(@ STAY 12)
Z13	2	d13	1'-3 1/2	3 8	(@ STAY 13)

MK. ①	NO. REOD	mk. ②	③	④	
AA13	2	b13	9 1/8	3 1/16	
AB13	2	a13	9 5/16	1 8	
AC13	2	b13	9 1/8	3 1/16	
AD13	2	b13	8 7/8	3 1/16	
AE13	2	a13	10 1/4	1 8	
AF13	2	b13	9	3 1/16	
AG13	2	b13	8 1/8	3 1/16	
AH13	2	b13	9 1/8	3 1/16	
AI13	2	b13	8 1/4	3 1/16	
AJ13	2	b13	8 1/8	3 1/16	
AK13	2	b13	8 7/16	3 1/16	
AL13	2	b13	8 5/16	3 1/16	
AM13	2	b13	8 11/16	3 1/16	
AN13	2	c13	7 13/16	1 4	
AP13	2	c13	8 5/16	1 4	
AQ13	2	c13	8 1/8	1 4	
AR13	2	c13	8 7/8	1 4	
AS13	2	c13	8 11/16	1 4	
AT13	2	c13	9 3/4	1 4	
AV13	2	c13	9 9/16	1 4	
AW13	2	d13	9 3/4	3 8	
AX13	2	d13	9 9/16	3 8	
AY13	2	d13	1'-3 1/16	3 8	
AZ13	2	d13	1'-3 1/2	3 8	

BILL OF MATERIAL							
LN	KIND	SECTION	LENGTH	REQ.	MARK	GRADE	REMARKS
51		GUIDE PIPES					
52		GUIDE PIPE ASSY		2	AA13		204 FROM DNG 13
53	PL	3x8	7 1/2	2	B13	M270-36	ERECTION TAB 12/2
54		GUIDE PIPE ASSY		2	AB13		223 FROM DNG 13
55	PL	3x8	7 1/2	2	A13	M270-36	ERECTION TAB 12/2
56		GUIDE PIPE ASSY		2	AC13		204 FROM DNG 13
57	PL	3x8	7 1/2	2	B13	M270-36	ERECTION TAB 12/2
58		GUIDE PIPE ASSY		2	AD13		197 FROM DNG 13
59	PL	3x8	7 1/2	2	B13	M270-36	ERECTION TAB 12/2
60		GUIDE PIPE ASSY		2	AE13		236 FROM DNG 13
61	PL	3x8	7 1/2	2	A13	M270-36	ERECTION TAB 12/2
62		GUIDE PIPE ASSY		2	AF13		200 FROM DNG 13
63	PL	3x8	7 1/2	2	B13	M270-36	ERECTION TAB 12/2
64		GUIDE PIPE ASSY		2	AG13		179 FROM DNG 13
65	PL	3x8	7 1/2	2	B13	M270-36	ERECTION TAB 12/2
66		GUIDE PIPE ASSY		2	AH13		204 FROM DNG 13
67	PL	3x8	7 1/2	2	B13	M270-36	ERECTION TAB 12/2
68		GUIDE PIPE ASSY		2	AI13		192 FROM DNG 13
69	PL	3x8	7 1/2	2	B13	M270-36	ERECTION TAB 12/2
70		GUIDE PIPE ASSY		2	AJ13		179 FROM DNG 13
71	PL	3x8	7 1/2	2	B13	M270-36	ERECTION TAB 12/2
72		GUIDE PIPE ASSY		2	AK13		199 FROM DNG 13
73	PL	3x8	7 1/2	2	B13	M270-36	ERECTION TAB 12/2
74		GUIDE PIPE ASSY		2	AL13		184 FROM DNG 13
75	PL	3x8	7 1/2	2	B13	M270-36	ERECTION TAB 12/2
76		GUIDE PIPE ASSY		2	AM13		195 FROM DNG 13
77	PL	3x8	7 1/2	2	B13	M270-36	ERECTION TAB 12/2
78		GUIDE PIPE ASSY		2	AN13		170 FROM DNG 13
79	PL	3x8	7 1/2	2	C13	M270-36	ERECTION TAB 12/2
80		GUIDE PIPE ASSY		2	AO13		183 FROM DNG 13
81	PL	3x8	7 1/2	2	C13	M270-36	ERECTION TAB 12/2
82		GUIDE PIPE ASSY		2	AP13		179 FROM DNG 13
83	PL	3x8	7 1/2	2	C13	M270-36	ERECTION TAB 12/2
84		GUIDE PIPE ASSY		2	AQ13		196 FROM DNG 13
85	PL	3x8	7 1/2	2	C13	M270-36	ERECTION TAB 12/2
86		GUIDE PIPE ASSY		2	AR13		192 FROM DNG 13
87	PL	3x8	7 1/2	2	C13	M270-36	ERECTION TAB 12/2
88		GUIDE PIPE ASSY		2	AS13		217 FROM DNG 13
89	PL	3x8	7 1/2	2	C13	M270-36	ERECTION TAB 12/2
90		GUIDE PIPE ASSY		2	AT13		213 FROM DNG 13
91	PL	3x8	7 1/2	2	C13	M270-36	ERECTION TAB 12/2
92		GUIDE PIPE ASSY		2	AV13		200 FROM DNG 13
93	PL	3x8	7 1/2	2	D13	M270-36	ERECTION TAB 12/2
94		GUIDE PIPE ASSY		2	AW13		197 FROM DNG 13
95	PL	3x8	7 1/2	2	D13	M270-36	ERECTION TAB 12/2
96		GUIDE PIPE ASSY		2	AX13		245 FROM DNG 13
97	PL	3x8	7 1/2	2	D13	M270-36	ERECTION TAB 12/2
98		GUIDE PIPE ASSY		2	AY13		241 FROM DNG 13
99	PL	3x8	7 1/2	2	D13	M270-36	ERECTION TAB 12/2
100							

BILL OF MATERIAL							
LN	KIND	SECTION	LENGTH	REQ.	MARK	GRADE	REMARKS
1		GUIDE PIPES					
2		GUIDE PIPE ASSY		2	A13		204 FROM DNG 13
3	PL	3x8	7 1/2	2	B13	M270-36	ERECTION TAB 12/2
4		GUIDE PIPE ASSY		2	B13		223 FROM DNG 13
5	PL	3x8	7 1/2	2	A13	M270-36	ERECTION TAB 12/2
6		GUIDE PIPE ASSY		2	C13		204 FROM DNG 13
7	PL	3x8	7 1/2	2	B13	M270-36	ERECTION TAB 12/2
8		GUIDE PIPE ASSY		2	D13		197 FROM DNG 13
9	PL	3x8	7 1/2	2	B13	M270-36	ERECTION TAB 12/2
10		GUIDE PIPE ASSY		2	E13		236 FROM DNG 13
11	PL	3x8	7 1/2	2	A13	M270-36	ERECTION TAB 12/2
12		GUIDE PIPE ASSY		2	F13		200 FROM DNG 13
13	PL	3x8	7 1/2	2	B13	M270-36	ERECTION TAB 12/2
14		GUIDE PIPE ASSY		2	G13		179 FROM DNG 13
15	PL	3x8	7 1/2	2	B13	M270-36	ERECTION TAB 12/2
16		GUIDE PIPE ASSY		2	H13		204 FROM DNG 13
17	PL	3x8	7 1/2	2	B13	M270-36	ERECTION TAB 12/2
18		GUIDE PIPE ASSY		2	I13		192 FROM DNG 13
19	PL	3x8	7 1/2	2	B13	M270-36	ERECTION TAB 12/2
20		GUIDE PIPE ASSY		2	J13		179 FROM DNG 13
21	PL	3x8	7 1/2	2	B13	M270-36	ERECTION TAB 12/2
22		GUIDE PIPE ASSY		2	K13		199 FROM DNG 13
23	PL	3x8	7 1/2	2	B13	M270-36	ERECTION TAB 12/2
24		GUIDE PIPE ASSY		2	L13		184 FROM DNG 13
25	PL	3x8	7 1/2	2	B13	M270-36	ERECTION TAB 12/2
26		GUIDE PIPE ASSY		2	M13		195 FROM DNG 13
27	PL	3x8	7 1/2	2	B13	M270-36	ERECTION TAB 12/2
28		GUIDE PIPE ASSY		2	N13		170 FROM DNG 13
29	PL	3x8	7 1/2	2	C13	M270-36	ERECTION TAB 12/2
30		GUIDE PIPE ASSY		2	P13		183 FROM DNG 13
31	PL	3x8	7 1/2	2	C13	M270-36	ERECTION TAB 12/2
32		GUIDE PIPE ASSY		2	Q13		179 FROM DNG 13
33	PL	3x8	7 1/2	2	C13	M270-36	ERECTION TAB 12/2
34		GUIDE PIPE ASSY		2	R13		196 FROM DNG 13
35	PL	3x8	7 1/2	2	C13	M270-36	ERECTION TAB 12/2
36		GUIDE PIPE ASSY		2	S13		217 FROM DNG 13
37	PL	3x8	7 1/2	2	C13	M270-36	ERECTION TAB 12/2
38		GUIDE PIPE ASSY		2	T13		213 FROM DNG 13
39	PL	3x8	7 1/2	2	C13	M270-36	ERECTION TAB 12/2
40		GUIDE PIPE ASSY		2	V13		213 FROM DNG 13
41	PL	3x8	7 1/2	2	C13	M270-36	ERECTION TAB 12/2
42		GUIDE PIPE ASSY		2	W13		200 FROM DNG 13
43	PL	3x8	7 1/2	2	D13	M270-36	ERECTION TAB 12/2
44		GUIDE PIPE ASSY		2	X13		197 FROM DNG 13
45	PL	3x8	7 1/2	2	D13	M270-36	ERECTION TAB 12/2
46		GUIDE PIPE ASSY		2	Y13		245 FROM DNG 13
47	PL	3x8	7 1/2	2	D13	M270-36	ERECTION TAB 12/2
48		GUIDE PIPE ASSY		2	Z13		241 FROM DNG 13
49	PL	3x8	7 1/2	2	D13	M270-36	ERECTION TAB 12/2
50							

WORK THIS SHEET WITH SHEET 13.

EXTERNAL GUIDE PIPE ASSEMBLIES

**VINCENNES STEEL CORP.**  
VINCENNES, IND.

Drawn	Checked	Approved	Revised
HL 9/27/99	MMJ 9/29/99		

U.S. 231 OVER THE OHIO RIVER AND INDIANA 66  
KENTUCKY D.O.H. / INDIANA D.O.T.  
DAVIESS COUNTY, KY / SPENCER COUNTY, IND  
PROJ. DOKB0 D010 D01

Shop Point SEE GNI  
Edge Distance AS NOTED Holes: 1/8" Ø (UN)  
Contr. No. 671 Sh. 13A of

TENSOR 1821-1