

END-ALL FRAME DESIGN - INPUT CONDITIONS

VARCO-PRUDEN
A UNIT OF AMCA INTERNATIONAL CORPORATION

JOB : 33439 2#
PAGE: 15
DATE: 3-25-88

MEMBER DATA:

MEM	FLANGE TK WIDTH	WEB TK	GAGE	DEPTH	LENGTH (FT)	AREA (IN ²)	SX (IN)	RX (IN)	RY (IN)	YIELD(KSI) FLG WEB	KLXX (FT)	KLYY (FT)	L.B (FT)	SPLICE CODES J1 J2
FRAME SIDE 1														
1	0.060	5.00	DBL C	16	8.50	15.348	1.75	4.32	3.24	1.15	55.0	55.0	14.57	SET BY P&G SPACE BP KN
FRAME SIDE 2														
2	3/16	5.0	1/ 8	10.00	5.164	3.17	11.03	4.17	1.11	50.0	50.0	9.65	SET BY P&G SPACE KN SS	
3	3/16	5.0	1/ 8	10.00	5.450	3.17	11.03	4.17	1.11	50.0	50.0	9.65	SET BY P&G SPACE SS SS	
LOCATION OF END POST MEMBER NO. 15 LOCATED AT 11' 0" 0/16"														
4	3/16	5.0	1/ 8	10.00	3.714	3.17	11.03	4.17	1.11	50.0	50.0	20.07	SET BY P&G SPACE SS SP	
5	3/16	5.0	1/ 8	10.00	10.069	3.17	11.03	4.17	1.11	50.0	50.0	20.07	SET BY P&G SPACE SP SS	
6	3/16	5.0	1/ 8	10.00	6.307	3.17	11.03	4.17	1.11	50.0	50.0	20.07	SET BY P&G SPACE SS SS	
LOCATION OF END POST MEMBER NO. 16 LOCATED AT 31' 0" 0/16"														
7	3/16	5.0	1/ 8	10.00	11.233	3.17	11.03	4.17	1.11	50.0	50.0	11.54	SET BY P&G SPACE SS SP	
FRAME SIDE 3														
8	3/16	5.0	1/ 8	10.00	11.233	3.17	11.03	4.17	1.11	50.0	50.0	11.54	SET BY P&G SPACE SS SP	
LOCATION OF END POST MEMBER NO. 17 LOCATED AT 54' 0" 0/16"														
9	3/16	5.0	1/ 8	10.00	6.307	3.17	11.03	4.17	1.11	50.0	50.0	20.07	SET BY P&G SPACE SS SS	
10	3/16	5.0	1/ 8	10.00	10.069	3.17	11.03	4.17	1.11	50.0	50.0	20.07	SET BY P&G SPACE SP SS	
11	3/16	5.0	1/ 8	10.00	3.714	3.17	11.03	4.17	1.11	50.0	50.0	20.07	SET BY P&G SPACE SS SP	
LOCATION OF END POST MEMBER NO. 18 LOCATED AT 74' 0" 0/16"														
12	3/16	5.0	1/ 8	10.00	5.450	3.17	11.03	4.17	1.11	50.0	50.0	9.65	SET BY P&G SPACE SS SS	
13	3/16	5.0	1/ 8	10.00	5.164	3.17	11.03	4.17	1.11	50.0	50.0	9.65	SET BY P&G SPACE KN SS	
FRAME SIDE 4														
14	0.060	5.00	DBL C	16	8.50	15.348	1.75	4.32	3.24	1.15	55.0	55.0	14.57	SET BY P&G SPACE BP KN
END POSTS FRAME SIDES 5, 6 AND 7 FOLLOW:														
FRAME SIDE 5														
15	0.075	5.00	DBL C	14	8.50	15.370	2.18	5.36	3.23	1.17	55.0	55.0	15.37	SET BY P&G SPACE BP SP
16	3/16	5.0	1/ 8	9.00	17.036	3.04	9.69	3.79	1.13	50.0	50.0	17.04	SET BY P&G SPACE BP SP	
FRAME SIDE 7														
17	3/16	5.0	1/ 8	9.00	17.036	3.04	9.69	3.79	1.13	50.0	50.0	17.04	SET BY P&G SPACE BP SP	
18	0.075	5.00	DBL C	14	8.50	15.370	2.18	5.36	3.23	1.17	55.0	55.0	15.37	SET BY P&G SPACE BP SP

4	SPECIAL LOADS APPLIED TO THE ABOVE FRAME FOLLOW	FRAME NO.	SIDE CODE	TYPE CODE	SUPP CODE	DIST MEAS	HORZ. DIST (FEET)	VERT. DIST (FEET)	HORZ LOAD (KIPS)	VERT LOAD (KIPS)	MOMENT (K-IN)	THIS COND 1	SPECIAL COND 2	LOAD COND 3	W/CASE COND 4
5	7	2	2	1	1	-6.0000	0.0000	-0.610	0.0000	0.0000	0.0	8	0	0	0
6	7	2	2	1	1	-6.0000	0.0000	-0.330	0.0000	0.0000	0.0	9	10	0	0
7	7	3	2	1	1	-6.0000	0.0000	-0.610	0.0000	0.0000	0.0	8	0	0	0
8	7	3	2	1	1	-6.0000	0.0000	0.330	0.0000	0.0000	0.0	9	10	0	0

END POST SPACING AND LOCATION FROM BACK BUILDING LINE				ELEVATION				
SPACING 11'	0	0/16"	LOCATION 11'	0	0/16"	0'	0	0/16"
SPACING 20'	0	0/16"	LOCATION 31'	0	0/16"	0'	0	0/16"
SPACING 23'	0	0/16"	LOCATION 54'	0	0/16"	0'	0	0/16"
SPACING 20'	0	0/16"	LOCATION 74'	0	0/16"	0'	0	0/16"
SPACING 11'	0	0/16"	LOCATION 85'	0	0/16"	= SPAN		

BACK CORNER POST ORIENTATION = CP
FRONT CORNER POST ORIENTATION = CP

VARCO-PRUDEN
A UNIT OF AMCA INTERNATIONAL CORPORATION
FRAME NO. 7

REACTION SUMMARY / BASE PLATE SUMMARY

JOB: 32439 2c
PAGE: 16
DATE: 3-25-88

SUMMARY OF REACTIONS:

	SIDE	LOAD COMBINATION	HORIZONTAL	VERTICAL	MOMENT
	BACK	1, 3, 0, 0, 0	0.00	2.28	0.00
	FRONT	1, 3, 0, 0, 0	0.00	2.28	0.00
ENDPOST # 1		1, 3, 0, 0, 0	-0.01	9.60	0.00 AT 11.00 FT FROM BACK BLDG. LN.
ENDPOST # 2		1, 3, 0, 0, 0	0.01	13.26	0.00 AT 31.00 FT FROM BACK BLDG. LN.
ENDPOST # 3		1, 3, 0, 0, 0	0.01	13.26	0.00 AT 54.00 FT FROM BACK BLDG. LN.
ENDPOST # 4		1, 3, 0, 0, 0	-0.01	9.60	0.00 AT 74.00 FT FROM BACK BLDG. LN.
	BACK	1, 25, 41, 0, 0	-2.80	-1.00	0.00
	FRONT	1, 25, 41, 0, 0	-2.80	-1.00	0.00
ENDPOST # 1		1, 25, 41, 0, 0	-4.24	-5.49	0.00 AT 11.00 FT FROM BACK BLDG. LN.
ENDPOST # 2		1, 25, 41, 0, 0	-6.39	-7.65	0.00 AT 31.00 FT FROM BACK BLDG. LN.
ENDPOST # 3		1, 25, 41, 0, 0	-6.39	-7.65	0.00 AT 54.00 FT FROM BACK BLDG. LN.
ENDPOST # 4		1, 25, 41, 0, 0	-4.24	-5.49	0.00 AT 74.00 FT FROM BACK BLDG. LN.
	BACK	1, 27, 41, 0, 0	2.80	-1.00	0.00
	FRONT	1, 27, 41, 0, 0	2.80	-1.00	0.00
ENDPOST # 1		1, 27, 41, 0, 0	-4.24	-5.49	0.00 AT 11.00 FT FROM BACK BLDG. LN.
ENDPOST # 2		1, 27, 41, 0, 0	-6.39	-7.65	0.00 AT 31.00 FT FROM BACK BLDG. LN.
ENDPOST # 3		1, 27, 41, 0, 0	-6.39	-7.65	0.00 AT 54.00 FT FROM BACK BLDG. LN.
ENDPOST # 4		1, 27, 41, 0, 0	-4.24	-5.49	0.00 AT 74.00 FT FROM BACK BLDG. LN.
	BACK	1, 3, 25, 41, 0	-2.80	1.07	0.00
	FRONT	1, 3, 25, 41, 0	-2.80	1.07	0.00
ENDPOST # 1		1, 3, 25, 41, 0	-4.24	3.47	0.00 AT 11.00 FT FROM BACK BLDG. LN.
ENDPOST # 2		1, 3, 25, 41, 0	-6.38	4.69	0.00 AT 31.00 FT FROM BACK BLDG. LN.
ENDPOST # 3		1, 3, 25, 41, 0	-6.38	4.69	0.00 AT 54.00 FT FROM BACK BLDG. LN.
ENDPOST # 4		1, 3, 25, 41, 0	-4.24	3.47	0.00 AT 74.00 FT FROM BACK BLDG. LN.
	BACK	1, 3, 27, 41, 0	2.80	1.07	0.00
	FRONT	1, 3, 27, 41, 0	2.80	1.07	0.00
ENDPOST # 1		1, 3, 27, 41, 0	-4.24	3.47	0.00 AT 11.00 FT FROM BACK BLDG. LN.
ENDPOST # 2		1, 3, 27, 41, 0	-6.38	4.69	0.00 AT 31.00 FT FROM BACK BLDG. LN.
ENDPOST # 3		1, 3, 27, 41, 0	-6.38	4.69	0.00 AT 54.00 FT FROM BACK BLDG. LN.
ENDPOST # 4		1, 3, 27, 41, 0	-4.24	3.47	0.00 AT 74.00 FT FROM BACK BLDG. LN.
	BACK	1, 15, 18, 0, 0	0.00	1.91	0.00
	FRONT	1, 15, 18, 0, 0	0.00	1.08	0.00
ENDPOST # 1		1, 15, 18, 0, 0	-0.01	7.95	0.00 AT 11.00 FT FROM BACK BLDG. LN.
ENDPOST # 2		1, 15, 18, 0, 0	0.01	10.34	0.00 AT 31.00 FT FROM BACK BLDG. LN.
ENDPOST # 3		1, 15, 18, 0, 0	0.00	6.30	0.00 AT 54.00 FT FROM BACK BLDG. LN.
ENDPOST # 4		1, 15, 18, 0, 0	0.00	4.08	0.00 AT 74.00 FT FROM BACK BLDG. LN.
	BACK	1, 16, 17, 0, 0	0.00	1.08	0.00
	FRONT	1, 16, 17, 0, 0	0.00	1.91	0.00
ENDPOST # 1		1, 16, 17, 0, 0	0.00	4.08	0.00 AT 11.00 FT FROM BACK BLDG. LN.
ENDPOST # 2		1, 16, 17, 0, 0	0.00	6.30	0.00 AT 31.00 FT FROM BACK BLDG. LN.
ENDPOST # 3		1, 16, 17, 0, 0	0.01	10.34	0.00 AT 54.00 FT FROM BACK BLDG. LN.
ENDPOST # 4		1, 16, 17, 0, 0	-0.01	7.95	0.00 AT 74.00 FT FROM BACK BLDG. LN.

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FRAME NO. 7

REACTION SUMMARY / BASE PLATE SUMMARY

JOB: 33439 2*
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SUMMARY OF REACTIONS:

SIDE	LOAD COMBINATION	HORIZONTAL	VERTICAL	MOMENT
BACK	1, 3, 13, 0, 0	-0.01	7.57	0.00
FRONT	1, 3, 13, 0, 0	-0.01	7.57	0.00
ENDPOST # 1	1, 3, 13, 0, 0	-0.01	7.73	0.00 AT 11.00 FT FROM BACK BLDG. LN.
ENDPOST # 2	1, 3, 13, 0, 0	0.01	13.40	0.00 AT 31.00 FT FROM BACK BLDG. LN.
ENDPOST # 3	1, 3, 13, 0, 0	0.01	13.40	0.00 AT 54.00 FT FROM BACK BLDG. LN.
ENDPOST # 4	1, 3, 13, 0, 0	-0.01	7.73	0.00 AT 74.00 FT FROM BACK BLDG. LN.
BACK	1, 25, 41, 13, 0	-2.79	-3.92	0.00
FRONT	1, 25, 41, 13, 0	-2.79	-3.92	0.00
ENDPOST # 1	1, 25, 41, 13, 0	-4.24	-4.47	0.00 AT 11.00 FT FROM BACK BLDG. LN.
ENDPOST # 2	1, 25, 41, 13, 0	-6.39	-7.73	0.00 AT 31.00 FT FROM BACK BLDG. LN.
ENDPOST # 3	1, 25, 41, 13, 0	-6.39	-7.73	0.00 AT 54.00 FT FROM BACK BLDG. LN.
ENDPOST # 4	1, 25, 41, 13, 0	-4.24	-4.47	0.00 AT 74.00 FT FROM BACK BLDG. LN.
BACK	1, 27, 41, 13, 0	2.80	-3.92	0.00
FRONT	1, 27, 41, 13, 0	2.80	-3.92	0.00
ENDPOST # 1	1, 27, 41, 13, 0	-4.24	-4.47	0.00 AT 11.00 FT FROM BACK BLDG. LN.
ENDPOST # 2	1, 27, 41, 13, 0	-6.39	-7.73	0.00 AT 31.00 FT FROM BACK BLDG. LN.
ENDPOST # 3	1, 27, 41, 13, 0	-6.39	-7.73	0.00 AT 54.00 FT FROM BACK BLDG. LN.
ENDPOST # 4	1, 27, 41, 13, 0	-4.24	-4.47	0.00 AT 74.00 FT FROM BACK BLDG. LN.

SUMMARY OF BASE PLATES:

SIDE	BASE PLATE DATA			ANCHOR BOLT DATA			WELDING PATTERN
	MARK NO.	WIDTH	TK LENGTH	NUMBER	SIZE	BLR	
BACK	BP-A08310	8.00 X	3/8 X 10.00	(2)	3/4 DIA. A36	3.90	OS-3
FRONT	BP-A08310	8.00 X	3/8 X 10.00	(2)	3/4 DIA. A36	3.90	OS-3
ENDPOST # 1	BP-A08310	8.00 X	3/8 X 10.00	(2)	3/4 DIA. A36	5.46	OS-3
ENDPOST # 2	BP-A08310	8.00 X	3/8 X 10.00	(2)	3/4 DIA. A36	7.68	OS-3
ENDPOST # 3	BP-A08310	8.00 X	3/8 X 10.00	(2)	3/4 DIA. A36	7.68	OS-3
ENDPOST # 4	BP-A08310	8.00 X	3/8 X 10.00	(2)	3/4 DIA. A36	5.46	OS-3

WEB STIFFENER REQUIREMENTS:

MEMBER	STIFFENER NUMBER	DESCRIPTION	LOCATION (FT)	WEB DEPTH (IN)	H/T RATIO	A/H RATIO	A (IN)	STIFFENER SIZE	SIDES	WELDING	DETAIL
2, 13	1	BEARING (ENDPOST)	0.97	9.625				3/8 X 2 3/8	BOTH	STD. CK-OK	YES
3, 12	1	BEARING (ENDPOST)	5.09	9.625				3/8 X 2 3/8	BOTH	STD. CK-OK	YES
6, 9	1	BEARING (ENDPOST)	5.93	9.625				3/8 X 2 3/8	BOTH	STD. CK-OK	YES

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FRAME DESIGN BOLTING PLATE DATA

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BOLTED CONNECTION DATA:

MEMBER	T	J	PLATE DATA				SIZE	BOLT DATA		TYPE	MARK #	CONNECTION CAPACITY	
			TK	WD	LENGTH			OUTSIDE	INSIDE			OUTSIDE	INSIDE
1, 14	2	1	3/8 X	6.0 X	0'-9 1/2	1/2" DIA A325	#ROWS	4-BOLT	EXT	1806309411	83.8 *K	83.8 *K	
4, 11	2	1	3/8 X	6.0 X	0'-11 0/16	3/4" DIA A325	1	NO	EXT	3806311011	125.0 *K	125.0 *K	
5, 10	1	1	3/8 X	6.0 X	0'-11 0/16	3/4" DIA A325	1	NO	EXT	3806311011	125.0 *K	125.0 *K	
7, 8	2	1	4/8 X	6.0 X	0'-11 1/16	3/4" DIA A325	1	NO	EXT	3806411011	223.2 *K	223.2 *K	
INTERIOR			COLUMN	CONNECTION	PLATES								
15, 18	2	1	3/8 X	6.0 X	0'-9 1/2	1/2" DIA A325	1	NO	EXT	1806309411	84.3 *K	84.3 *K	
16, 17	2	1	3/8 X	6.0 X	0'-10 0/16	1/2" DIA A325	1	NO	EXT	1806310011	92.3 *K	92.3 *K	

FLANGE BRACING REQUIREMENTS:

BACK SIDE OF FRAME RIDGE TO EAVE:

MEMBER #	LOCATION	DEPTH @ FB	FB MARK #
7	1'-6 0/16	10.0000	GFB2064
7	6'-0 0/16	10.0001	NOT REQ D
7	10'-6 0/16	10.0001	GFB2064
7	15'-0 0/16	10.0001	GFB2064
5	19'-6 0/16	10.0000	NOT REQ D
5	24'-0 0/16	10.0000	GFB2064
4	28'-6 0/16	10.0001	NOT REQ D

BACK SIDE OF FRAME RIDGE TO EAVE:

MEMBER #	LOCATION	DEPTH @ FB	FB MARK #
3	33'-0 0/16	10.0001	NOT REQ D
2	37'-6 0/16	10.0300	NOT REQ D
2	39'-10 7/8	10.1293	GFB2064
2	42'-3 11/16	0.0000	NOT REQ D

BACK SIDE OF FRAME BASE TO EAVE:

MEMBER #	LOCATION	DEPTH @ FB	FB MARK #
1	0'-3 0/16	8.5000	NOT REQ D
1	7'-2 1/4	8.5000	NOT REQ D
1	12'-2 1/4	8.5000	NOT REQ D
1	14'-9 0/16	0.0000	NOT REQ D

END POST BASE TO RAKE BEAM:

MEMBER #	LOCATION	DEPTH @ FB	FB MARK #
15	0'-3 0/16	0.0000	NOT REQ D
15	7'-2 1/4	8.5000	NOT REQ D
15	12'-2 1/4	8.5000	NOT REQ D

END POST BASE TO RAKE BEAM:

MEMBER #	LOCATION	DEPTH @ FB	FB MARK #
16	0'-3 0/16	0.0000	NOT REQ D
16	7'-2 1/4	9.0000	NOT REQ D
16	12'-2 1/4	9.0000	NOT REQ D
16	16'-9 0/16	0.0000	NOT REQ D

* - FLANGE BRICE REMOVED DUE TO SHALLOW DEPTH

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ENDHALL FRAME DESIGN SUMMARY

JOB: 33439 20
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MEM #	CRIT STRESS LOCATION(FT)	LOAD CASE	DEPTH (IN)	ACTUAL FORCES			ACTUAL STRESS			ALLOWABLE STRESS			STRESS CONDITIONS	
				AXIAL (KIPS)	SHEAR (KIPS)	MOMENT (KIP-IN)	AXIAL	SHEAR	BENDING	AXIAL	SHEAR	BENDING	SUM %	%
FRAME SIDE 1														
1	7.19	10	8.5	3.9	-0.1	-125.6	2.24	0.11	29.07	44.00	5.69	40.07	0.776	0.019
FRAME SIDE 2														
2	0.32	8	10.0	-0.3	3.1	-170.0	0.08	2.31	15.42	27.42	15.01	30.07	0.516	0.154
3	5.13	8	10.0	0.2	-2.5	-133.1	0.07	1.84	12.07	30.00	15.01	17.73	0.681	0.123
4	0.00	8	10.0	-0.4	5.1	-133.1	0.13	3.81	12.07	23.10	15.01	17.73	0.687	0.254
5	5.86	8	10.0	0.1	-0.6	134.8	0.02	0.45	12.22	30.00	15.01	30.00	0.408	0.030
6	5.97	8	10.0	0.5	-6.5	-298.7	0.17	4.83	27.09	30.00	15.01	30.00	0.909	0.322
7	0.00	8	10.0	-0.6	6.7	-298.7	0.18	4.57	27.09	24.56	15.01	30.00	0.910	0.331
FRAME SIDE 3														
8	0.00	8	10.0	-0.6	-6.7	-298.7	0.18	4.97	27.09	24.56	15.01	30.00	0.910	0.331
9	5.97	8	10.0	0.5	6.5	-298.7	0.17	4.83	27.09	30.00	15.01	30.00	0.909	0.322
10	5.86	8	10.0	0.1	0.6	134.8	0.02	0.45	12.22	30.00	15.01	30.00	0.408	0.030
11	0.00	8	10.0	-0.4	-5.1	-133.1	0.13	3.81	12.07	23.10	15.01	17.73	0.687	0.254
12	5.13	8	10.0	0.2	2.5	-133.1	0.07	1.84	12.07	30.00	15.01	17.73	0.681	0.123
13	0.32	8	10.0	-0.3	-3.1	-170.0	0.08	2.31	15.42	27.42	15.01	30.07	0.516	0.154
FRAME SIDE 4														
14	7.19	9	8.5	3.9	0.1	-125.1	2.24	0.10	28.96	44.00	5.69	40.07	0.774	0.018
END POSTS FRAME SIDES 5, 6 AND 7 FOLLOW:														
FRAME SIDE 5														
15	7.19	4	8.5	-3.5	0.4	-199.5	1.59	0.30	37.22	21.80	8.96	40.76	0.986	0.033
16	7.19	4	9.0	-4.7	1.1	-323.5	1.55	0.93	33.39	27.07	22.34	35.96	0.986	0.042
FRAME SIDE 7														
17	7.19	4	9.0	-4.7	1.1	-323.5	1.55	0.93	33.39	27.07	22.34	35.96	0.986	0.042
18	7.19	4	8.5	-3.5	0.4	-199.5	1.59	0.30	37.22	21.80	8.96	40.76	0.986	0.033

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FRAME NO. 7

DESIGN LOADS AND FRAME FOUNDATION LOADS

JOB: 33437 2*
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DLR-B

BAY SPACING = 11.00 FT.

SUMMARY OF FOUNDATION LOADS:
1. FORCE=KIP MOMENT=INCH-KIPS

SIDE	LOAD COMBINATION	HORIZONTAL IN	HORIZONTAL OUT	VERTICAL UPLIFT	VERTICAL DOWN	MOMENT (+ COUNTERCLOCKWISE)
BACK SW COL	1, 3, 0, 0, 0	-	-	-	2.28	0.00
	1, 25, 41, 0, 0	2.80	-	1.00	-	0.00
	1, 27, 41, 0, 0	-	2.80	1.00	-	0.00
	1, 3, 25, 41, 0	2.80	-	-	1.07	0.00
	1, 3, 27, 41, 0	-	2.80	-	-	1.07
	1, 15, 18, 0, 0	-	-	-	-	1.81
	1, 16, 17, 0, 0	-	-	-	-	1.08
	1, 3, 13, 0, 0	0.01	-	3.92	-	7.67
	1, 25, 41, 13, 0	2.79	-	3.92	-	-
	1, 27, 41, 13, 0	-	2.80	-	-	-
FRONT SW COL	1, 3, 0, 0, 0	-	-	-	2.28	0.00
	1, 25, 41, 0, 0	-	2.80	1.00	-	0.00
	1, 27, 41, 0, 0	2.80	-	1.00	-	0.00
	1, 3, 25, 41, 0	-	2.80	-	1.07	0.00
	1, 3, 27, 41, 0	2.80	-	-	-	1.07
	1, 15, 18, 0, 0	-	-	-	-	1.81
	1, 16, 17, 0, 0	-	-	-	-	1.08
	1, 3, 13, 0, 0	-	0.01	-	-	7.67
	1, 25, 41, 13, 0	-	2.79	3.92	-	-
	1, 27, 41, 13, 0	2.80	-	3.92	-	-
ENDPOST # 1	1, 3, 0, 0, 0	0.01	0.01	-	9.60	0.00 AT 11.00' FROM BACK BLDG LINE
	1, 25, 41, 0, 0	4.24	4.24	5.49	-	0.00
	1, 27, 41, 0, 0	4.24	4.24	5.49	-	0.00
	1, 3, 25, 41, 0	4.24	4.24	-	3.47	0.00
	1, 3, 27, 41, 0	4.24	4.24	-	3.47	0.00
	1, 15, 18, 0, 0	0.01	0.01	-	7.95	0.00
	1, 16, 17, 0, 0	-	-	-	4.08	0.00
	1, 3, 13, 0, 0	0.01	0.01	-	7.73	0.00
	1, 25, 41, 13, 0	4.24	4.24	4.47	-	0.00
	1, 27, 41, 13, 0	4.24	4.24	4.47	-	0.00
ENDPOST # 2	1, 3, 0, 0, 0	0.01	0.01	-	13.26	0.00 AT 31.00' FROM BACK BLDG LINE
	1, 25, 41, 0, 0	6.39	6.39	7.65	-	0.00
	1, 27, 41, 0, 0	6.39	6.39	7.65	-	0.00
	1, 3, 25, 41, 0	6.38	6.38	-	4.69	0.00
	1, 3, 27, 41, 0	6.38	6.38	-	4.69	0.00
	1, 15, 18, 0, 0	0.01	0.01	-	10.34	0.00
	1, 16, 17, 0, 0	-	-	-	6.30	0.00
	1, 3, 13, 0, 0	0.01	0.01	-	13.40	0.00
	1, 25, 41, 13, 0	6.39	6.39	7.73	-	0.00
	1, 27, 41, 13, 0	6.39	6.39	7.73	-	0.00

VARCO-PRUDEN
A UNIT OF AMCA INTERNATIONAL CORPORATION
FRAME NO. 7

DESIGN LOADS AND FRAME FOUNDATION LOADS

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DLE-9
BW

BAY SPACING = 11.00 FT.

SUMMARY OF FOUNDATION LOADS:
1. FORCE=KIPS MOMENT=INCH-KIPS

SIDE	LOAD COMBINATION	HORIZONTAL		VERTICAL	VERTICAL	MOMENT (+ COUNTERCLOCKWISE)
		IN	OUT	UPLIFT	DOWN	
ENDOPOST # 3	1, 3, 0, 0, 0	0.01	0.01	-	13.26	0.00 AT 54.00° FROM BACK BLDG LINE
	1, 25, 41, 0, 0	6.39	6.39	7.65	-	0.00
	1, 27, 41, 0, 0	6.39	6.39	7.65	-	0.00
	1, 3, 25, 41, 0	6.38	6.38	-	4.69	0.00
	1, 3, 27, 41, 0	6.38	6.38	-	4.69	0.00
	1, 15, 18, 0, 0	-	-	-	6.30	0.00
	1, 16, 17, 0, 0	0.01	0.01	-	10.34	0.00
	1, 3, 13, 0, 0	0.01	0.01	-	13.40	0.00
	1, 25, 41, 13, 0	6.39	6.39	7.73	-	0.00
	1, 27, 41, 13, 0	6.39	6.39	7.73	-	0.00
ENDOPOST # 4	1, 3, 0, 0, 0	0.01	0.01	-	9.60	0.00 AT 74.00° FROM BACK BLDG LINE
	1, 25, 41, 0, 0	4.24	4.24	5.49	-	0.00
	1, 27, 41, 0, 0	4.24	4.24	5.49	-	0.00
	1, 3, 25, 41, 0	4.24	4.24	-	3.47	0.00
	1, 3, 27, 41, 0	4.24	4.24	-	3.47	0.00
	1, 15, 18, 0, 0	-	-	-	4.08	0.00
	1, 16, 17, 0, 0	0.01	0.01	-	7.95	0.00
	1, 3, 13, 0, 0	0.01	0.01	-	7.73	0.00
	1, 25, 41, 13, 0	4.24	4.24	4.47	-	0.00
	1, 27, 41, 13, 0	4.24	4.24	4.47	-	0.00

- MAXIMUM FOUNDATION LOADS:
1. MAX FOUNDATION LOADS CAN BE FROM ANY LOAD CASE
2. MAX FOUNDATION LOADS ARE NOT FACTORED FOR ANY LOAD CASE

SIDE	HORIZONTAL		VERTICAL	VERTICAL	MOMENT (+ COUNTERCLOCKWISE)
	IN	OUT	UPLIFT	DOWN	
BACK SW COL	2.80	2.80	3.92	7.67	0.00
FRONT SW COL	2.80	2.80	3.92	7.67	0.00
ENDOPOST # 1	4.24	4.24	5.49	9.60	0.00 AT 11.00° FROM BACK BLDG LINE
ENDOPOST # 2	6.39	6.39	7.73	13.40	0.00 AT 31.00° FROM BACK BLDG LINE
ENDOPOST # 3	6.39	6.39	7.73	13.40	0.00 AT 54.00° FROM BACK BLDG LINE
ENDOPOST # 4	4.24	4.24	5.49	9.60	0.00 AT 74.00° FROM BACK BLDG LINE

SUMMARY OF BASE PLATES:

SIDE	BASE PLATE DATA			ANCHOR BOLT DATA		
	MARK NO.	WIDTH	TK	LENGTH	NUMBER	SIZE
BACK	BP-A08310	8.00	X	3/8	X	10.00
FRONT	BP-A08310	8.00	X	3/8	X	10.00
ENDOPOST # 1	BP-A08310	8.00	X	3/8	X	10.00
ENDOPOST # 2	BP-A08310	8.00	X	3/8	X	10.00
ENDOPOST # 3	BP-A08310	8.00	X	3/8	X	10.00
ENDOPOST # 4	BP-A08310	8.00	X	3/8	X	10.00

(2) 3/4 DIA. A36
(2) 3/4 DIA. A36
(2) 3/4 DIA. A36
(2) 3/4 DIA. A36
(2) 3/4 DIA. A36
(2) 3/4 DIA. A36

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VARCO-PRUDEN
A UNIT OF AMCA INTERNATIONAL CORPORATION

PURLIN DESIGN

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DECK ROOF PURLINS

CONTINUOUS PURLIN SYSTEM
GAGE YIELD STRESS = 55.00 KSI
ALLOWABLE BENDING STRESS = 33.00 KSI
PURLIN LOAD SPACING = 4.50 FT

LOADING:
ADD'L DEAD = 0.00 PSF (TOTAL DEAD LOAD = ADD'L DEAD + 2 PSF FOR PURLINS & SHEETING)
LIVE = 50.00 PSF
WIND = 34.00 PSF

10 LOAD CASES WITH THE FOLLOWING LOAD CODES:
1, 1, 3, 0, 0, 0 | 1, 25, 41, 0, 0 | 1, 27, 41, 0, 0 | 1, 3, 25, 41, 0, 0 | 1, 3, 27, 41, 0, 0 |
1, 15, 18, 0, 0 | 1, 16, 17, 0, 0 | 1, 3, 13, 0, 0 | 1, 25, 41, 13, 0, 0 | 1, 3, 13, 0, 0 |

BAY 1 = 21.50'			BAY 2 = 22.00'			BAY 3 = 22.00'			BAY 4 = 22.00'			LAPS (IN) GAGE					
0.0'	(12)	18.0'	36.0'	116)	18.0'	18.0'	(13)	18.0'	18.0'	(16)	36.0'						
3.81	3.81	5.97	2.16	5.43	3.27	5.43	2.16	5.97				SX MOMENT					
-0.3	-0.3	-98.6	-98.6	-151.3	-66.0	-72.0	-72.0	-112.5	-69.3	-69.3	-69.3	-112.5	-72.0	-72.0	-66.0	-151.3	1
0.2	0.2	60.7	60.7	93.1	40.6	44.3	44.3	69.2	42.7	42.7	42.7	69.2	44.3	44.3	40.6	93.1	2
0.2	0.2	60.7	60.7	93.1	40.6	44.3	44.3	69.2	42.7	42.7	42.7	69.2	44.3	44.3	40.6	93.1	3
-0.1	-0.1	-34.1	-34.1	-52.4	-22.8	-24.9	-24.9	-38.9	-24.0	-24.0	-24.0	-38.9	-24.9	-24.9	-22.8	-52.4	4
-0.1	-0.1	-34.1	-34.1	-52.4	-22.8	-24.9	-24.9	-38.9	-24.0	-24.0	-24.0	-38.9	-24.9	-24.9	-22.8	-52.4	5
0.0	0.0	-3.8	-3.8	-5.8	-2.5	-2.8	-2.8	-4.3	-2.7	-2.7	-2.7	-4.3	-2.8	-2.8	-2.5	-5.8	6
0.0	0.0	-3.8	-3.8	-5.8	-2.5	-2.8	-2.8	-4.3	-2.7	-2.7	-2.7	-4.3	-2.8	-2.8	-2.5	-5.8	7
-0.3	-0.3	-98.6	-98.6	-151.3	-66.0	-72.0	-72.0	-112.5	-69.3	-69.3	-69.3	-112.5	-72.0	-72.0	-66.0	-151.3	8
0.2	0.2	60.7	60.7	93.1	40.6	44.3	44.3	69.2	42.7	42.7	42.7	69.2	44.3	44.3	40.6	93.1	9
-0.3	-0.3	-98.6	-98.6	-151.3	-66.0	-72.0	-72.0	-112.5	-69.3	-69.3	-69.3	-112.5	-72.0	-72.0	-66.0	-151.3	10
0.78 AT 20.00 FT			1.01 AT 20.50 FT			0.64 AT 20.50 FT			1.01 AT 1.50 FT			MAX STRESS					
-1.05			-0.37			-0.61			-0.37			D					

VARCO-PRUDEN
A UNIT OF AMCA INTERNATIONAL CORPORATION

PURLIN DESIGN
BACK ROOF PURLINS

JOB: 33435 1*
PAGE: 2
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BAY 5 = 21.50'

	18.0'	(12)	0.0'	
5.97	3.81		3.81	
-151.3	-98.6	-98.6	-0.3	-0.3
93.1	60.7	60.7	0.2	0.2
93.1	60.7	60.7	0.2	0.2
-52.4	-34.1	-34.1	-0.1	-0.1
-52.4	-34.1	-34.1	-0.1	-0.1
-5.8	-3.8	-3.8	0.0	0.0
-5.8	-3.8	-3.8	0.0	0.0
-151.3	-98.6	-98.6	-0.3	-0.3
93.1	60.7	60.7	0.2	0.2
-151.2	-98.6	-98.6	-0.3	-0.3

0.78 AT 1.50 FT
-1.04

LAPS (IN)
GAGE
SX
MOMENT
1
2
3
4
5
6
7
8
9
10
MAX STRESS
D

WEB CRIPPLING SUMMARY FOR BACK SLOPE PURLINS

FRM. LIN.	CRIT L.C.	ACTUAL MOMENT	ACTUAL REACTN	"M" ALLOW	"W" ALLOW	RATIO
1	1	0.347	2.043	125.730	4.781	0.356
2	1	151.279	5.821	197.010	6.280	0.988
3	1	112.495	5.001	179.190	4.961	0.936
4	1	112.495	5.001	179.190	4.961	0.936
5	1	151.280	5.821	197.010	6.280	0.988
6	1	0.343	2.043	125.730	4.781	0.356

VARCO-PRUDEN
A UNIT OF AMCA INTERNATIONAL CORPORATION

PURLIN DESIGN

JOB: 33439 10
PAGE: 3
DATE: 3-28-80

BACK EAVE PURLINS

SIMPLE PURLIN SYSTEM
GAGE YIELD STRESS = 55.00 KSI
ALLOWABLE BENDING STRESS = 33.00 KSI
PURLIN LOAD SPACING = 1.48 FT

LOADING:
ADD'L DEAD = 0.00 PSF (TOTAL DEAD LOAD = ADD'L DEAD + 2 PSF FOR PURLINS & SHEETING)
LIVE = 50.00 PSF
WIND = 34.00 PSF

10 LOAD CASES WITH THE FOLLOWING LOAD CODES:
1, 3, 0, 0, 0 | 1, 25, 41, 0, 0 | 1, 27, 41, 0, 0 | 1, 3, 25, 41, 0 | 1, 3, 27, 41, 0 |
1, 15, 18, 0, 0 | 1, 16, 17, 0, 0 | 1, 3, 13, 0, 0 | 1, 25, 41, 13, 0 | 1, 3, 13, 0, 0 |

BAY 1 = 21.50'	BAY 2 = 22.00'	BAY 3 = 22.00'	BAY 4 = 22.00'	GAGE
2.16	2.16	2.16	2.16	SX MOMENT
53.3	55.9	55.9	55.9	1
-32.8	-34.4	-34.4	-34.4	2
-32.8	-34.4	-34.4	-34.4	3
18.5	19.4	19.4	19.4	4
18.5	19.4	19.4	19.4	5
2.1	2.2	2.2	2.2	6
2.1	2.2	2.2	2.2	7
53.3	55.9	55.9	55.9	8
-32.8	-34.4	-34.4	-34.4	9
53.3	55.9	55.9	55.9	10
0.75 AT 11.00 FT -1.33	0.78 AT 11.00 FT -1.57	0.73 AT 11.00 FT -1.47	0.73 AT 11.00 FT -1.47	MAX STRESS

Use 14ga Purlins in all Bays @
Cantoply load

VARCO-PRUDEN
A UNIT OF AMCA INTERNATIONAL CORPORATION

PURLIN DESIGN
BACK-EAVE PURLINS

JOB: 33439 1*
PAGE: 4
DATE: 3-28-88

BAY 5 = 21.50'

1161 119a

2.16

53.3

-32.8

-32.8

18.5

10.5

2.1

2.1

53.3

-32.8

53.3

0.75 AT 10.50 FT
-1.33

GAGE

SX

MOMENT

1

2

3

4

5

6

7

8

9

10

MAX STRESS

0

VARCO PRUDEN
A UNIT OF AMCA INTERNATIONAL CORPORATION

BRACE ROD DESIGN

JOB: 33439 1*
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SPAN = 85'-0"
BACK SIDEWALL HEIGHT = 16'-0"
FRONT SIDEWALL HEIGHT = 16'-0"
BUILDING LENGTH = 110'-0"

RIDGE FROM BACK BLOC LN= 42'-6"
ELEVATION OF FRONT COL = 0'-0"
BACK ROOF PITCH = 1.0000 : 12
FRONT ROOF PITCH = 1.0000 : 12

LOAD - WIND = 34.00 PSF STRESS FACTOR = 1.33
ROD YIELD = 65.00 KSI
WINDWARD COEFF = 0.76
LEEWARD COEFF = 0.22
TOTAL COEFF = 0.98

REF POST SPACES = RIGHT ENDWALL
11'-0" 20'-0" 23'-0" 20'-0" 11'-0"

ROOF 2 BRACED BAYS DSGN BAY SP = 22.00 FT BRACED BAYS = 2 4
BACK SIDEWALL 2 BRACED BAYS DSGN BAY SP = 22.00 FT BRACED BAYS = 2 4
FRONT SIDEWALL 2 BRACED BAYS DSGN BAY SP = 22.00 FT BRACED BAYS = 2 4

ROOF BRACING	TOTAL APPLIED LOADS (KIPS)	WINDWARD LOADS	LEEWARD LOADS	STRUT FORCES BRACED BAY	STRUT FORCES UNBRACED BAY	PANEL SHEAR	ROD QTY	ROD DIAMETER
1.46 (BK EAVE)	1.14	0.32	0.64	0.41	5.50	1.0	1.0	1/2" EAVE PANEL
4.36	3.39	0.97	6.72	1.21	3.32	1.0	1.0	1/2" RIDGE PANEL
6.64	5.17	1.47	5.17	1.85	0.00	1.0	1.0	3/8" RIDGE PANEL
0.00 (RIDGE)	0.00	0.00	0.00	0.00	0.00	1.0	1.0	3/8" RIDGE PANEL
6.64	5.17	1.47	5.17	1.85	0.00	1.0	1.0	1/2" RIDGE PANEL
4.36	3.39	0.97	6.72	1.21	3.32	1.0	1.0	1/2" RIDGE PANEL
1.46 (FR EAVE)	1.14	0.32	6.64	0.41	5.50	1.0	1.0	1/2" EAVE PANEL

BACK SIDEWALL BRACING EAVE REACTION = 6.23 KIPS PER BAY
ROD QTY DIAMETER
1.0 5/8"

FRONT SIDEWALL BRACING EAVE REACTION = 6.23 KIPS PER BAY
ROD QTY DIAMETER
1.0 5/8"



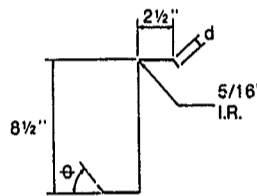
No. _____
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 Date _____
 Prepared by _____
 Reviewed by _____

SECTION PROPERTIES

Section Properties have been calculated in accordance with AISI specification, section 2.3.

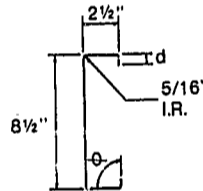
Material - ASTM 570
 $F_y = 55$ ksi
 $F_u = 70$ ksi

Theoretical dimensions are nominal dimension which have been used for section property determinations.



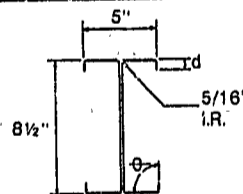
8 1/2" ROLL FORMED ZEE

Gage	Theoretical Dimensions					Effective Section Properties						
	t (in.)	θ (deg.)	d (in.)	Area (in. ²)	Wt. (plf)	S _x (in. ³)	I _x (in. ⁴)	r _x (in.)	S _y (in. ³)	I _y (in. ⁴)	r _y (in.)	Q
16	0.060	50	0.80	0.87	2.97	2.16	9.34	3.27	0.42	1.27	1.21	0.58
15	0.067	50	0.82	0.98	3.32	2.45	10.41	3.26	0.48	1.43	1.21	0.63
14	0.075	50	0.83	1.09	3.72	2.74	11.64	3.26	0.54	1.61	1.21	0.67
13	0.090	50	0.86	1.31	4.46	3.27	13.92	3.25	0.65	1.95	1.22	0.71
12	0.105	50	0.89	1.53	5.20	3.81	16.18	3.25	0.76	2.30	1.22	0.75
11	0.120	50	0.92	1.75	5.95	4.34	18.43	3.24	0.88	2.65	1.23	0.78



8 1/2" ROLL FORMED CEE

Gage	Theoretical Dimensions					Effective Section Properties						
	t (in.)	θ (deg.)	d (in.)	Area (in. ²)	Wt. (plf)	S _x (in. ³)	I _x (in. ⁴)	r _x (in.)	S _y (in. ³)	I _y (in. ⁴)	r _y (in.)	Q
16	0.060	90	0.96	0.87	2.97	2.16	9.16	3.23	0.41	0.74	0.92	0.61
15	0.067	90	0.98	0.98	3.32	2.40	10.21	3.23	0.46	0.83	0.92	0.64
14	0.075	90	1.01	1.09	3.72	2.63	11.40	3.23	0.52	0.93	0.92	0.68
13	0.090	90	1.05	1.31	4.46	3.20	13.62	3.22	0.63	1.12	0.92	0.71
12	0.105	90	1.09	1.53	5.20	3.72	15.81	3.21	0.74	1.30	0.92	0.75
11	0.120	90	1.13	1.75	5.95	4.23	17.98	3.20	0.85	1.49	0.92	0.78



8 1/2" DOUBLE CEE

Gage	Theoretical Dimensions					Effective Section Properties						
	t (in.)	θ (deg.)	d (in.)	Area (in. ²)	Wt. (plf)	S _x (in. ³)	I _x (in. ⁴)	r _x (in.)	S _y (in. ³)	I _y (in. ⁴)	r _y (in.)	Q
16	0.060	90	0.96	1.75	5.95	4.32	18.32	3.23	0.93	2.32	1.15	0.61
15	0.067	90	0.98	1.95	6.64	4.80	20.42	3.23	1.05	2.61	1.16	0.64
14	0.075	90	1.01	2.18	7.44	5.36	22.80	3.23	1.18	2.96	1.17	0.68
13	0.090	90	1.05	2.62	8.92	6.40	27.23	3.22	1.44	3.61	1.17	0.71
12	0.105	90	1.09	3.06	10.40	7.44	31.62	3.21	1.72	4.29	1.18	0.75
11	0.120	90	1.13	3.50	11.90	8.46	35.96	3.20	1.97	4.93	1.18	0.78

VARCO-PRUDEN
A UNIT OF AMCA INTERNATIONAL CORPORATION

BRACE ROD DESIGN

JOB: 33439 1*
PAGE: 1
DATE: 3-28-68

SPAN = 85'-0"
BACK SIDEWALL HEIGHT = 16'-0"
FRONT SIDEWALL HEIGHT = 16'-0"
BUILDING LENGTH = 110'-0"

RIDGE FROM BACK BLOC LN = 42'-6"
ELEVATION OF FRONT COL = 0'-0"
BACK ROOF PITCH = 1.0000 : 12
FRONT ROOF PITCH = 1.0000 : 12

LOAD - WIND = 34.00 PSF STRESS FACTOR = 1.33
ROD YIELD = 65.00 KSI
WINDWARD COEFF = 0.76
LEEWARD COEFF = 0.22
TOTAL COEFF = 0.98

REF POST SPACES = RIGHT ENDWALL
11'-0" 20'-0" 23'-0" 20'-0" 11'-0"

ROOF 2 BRACED BAYS DSGN BAY SP = 22'-00" FT BRACED BAYS = 2 4
BACK SIDEWALL 2 BRACED BAYS DSGN BAY SP = 22'-00" FT BRACED BAYS = 2 4
FRONT SIDEWALL 2 BRACED BAYS DSGN BAY SP = 22'-00" FT BRACED BAYS = 2 4

ROOF BRACING TOTAL APPLIED LOADS(KIPS)	WINDWARD LOADS	LEEWARD LOADS	STRUT FORCES BRACED BAY	STRUT FORCES UNBRACED BAY	PANEL SHEAR	ROD QTY	ROD DIAMETER
1.46(BK EAVE)	1.14	0.32	6.64	0.41	5.50	1.0	1/2" EAVE PANEL
4.36	3.39	0.97	6.72	1.21	3.32	1.0	1/2" EAVE PANEL
6.64	5.17	1.47	5.17	1.85	0.00	1.0	3/8" RIDGE PANEL
0.00(RIDGE)	0.00	0.00	0.00	0.00	0.00	1.0	3/8" RIDGE PANEL
6.64	5.17	1.47	5.17	1.85	0.00	1.0	3/8" RIDGE PANEL
4.36	3.39	0.97	6.72	1.21	3.32	1.0	1/2" EAVE PANEL
1.46(FR EAVE)	1.14	0.32	6.64	0.41	5.50	1.0	1/2" EAVE PANEL

BACK SIDEWALL BRACING EAVE REACTION = 6.23 KIPS PER BAY
ROD QTY 1.0 DIAMETER 5/8"

FRONT SIDEWALL BRACING EAVE REACTION = 6.23 KIPS PER BAY
ROD QTY 1.0 DIAMETER 5/8"



No. _____
 Page _____ of _____
 Date _____
 Prepared by _____
 Reviewed by _____

VARCO-PRUDEN PANEL RIB ENGINEERING DATA

Total Layout = 43 1/2"

Total Cover = 36"

Gage	Fy ksi	Total Thickness Inches	Net Metal Thickness Inches	Weight psf of Cover	Outside of Panel In Compression		Inside of Panel In Compression	
					In. ³	In. ⁴	In. ³	In. ⁴
26	50	0.0217	0.0200	1.06	.0451	.0419	.0493	.0419
24	50	0.0279	0.0262	1.35	.0623	.0565	.0644	.0564
22	50	0.0339	0.0322	1.64	.0798	.0701	.0804	.0703

VARCO-PRUDEN VEE RIB ENGINEERING DATA

Total Layout = 42 7/16"

Total Cover = 36"

Gage	Fy ksi	Total Thickness Inches	Net Metal Thickness Inches	Weight psf of Cover	Outside of Panel In Compression		Inside of Panel In Compression	
					In. ³	In. ⁴	In. ³	In. ⁴
26	50	0.0217	0.0200	1.04	.0375	.0271	.0414	.0282
24	50	0.0279	0.0262	1.34	.0491	.0355	.0542	.0369
22	50	0.0339	0.0322	1.63	.0604	.0436	.0667	.0455

VARCO-PRUDEN SPAN LOC ENGINEERING DATA

Total Layout = 26 1/2"

Total Cover = 16"

Gage	Fy ksi	Total Thickness Inches	Net Metal Thickness Inches	Weight psf of Cover	Outside of Panel In Compression		Inside of Panel In Compression	
					In. ³	In. ⁴	In. ³	In. ⁴
24	50	0.0276	0.0259	1.87	.1765	.2727	.2402	.4970
22	50	0.0336	0.0319	2.27	.2174	.3359	.2958	.6121
20	50	0.0396	0.0379	2.68	.2583	.3990	.3515	.7273

VARCO-PRUDEN
 A UNIT OF AMCA INTERNATIONAL CORPORATION
 JOB 33439 1*
 BUILDER STRUCTURE & DESIGN, INC.
 CUSTOMER FOX LUMBER STORAGE
 JOB SITE CITY PORTLAND, ME.

FRAME DESIGN - INPUT CONDITIONS

JOB: 33439 1*
 PAGE: 1
 DATE: 3-28-88
 PROFIT CENTER: WISCONSIN

BUILDING DESCRIPTION:

ITEM	FEET & INCHES	DEC. FT.	DEC. IN.	METERS
SPAN	= 85'- 0 0/16	85.0000	1020.0000	25.9080
BACK SIDEWALL HEIGHT	= 16'- 0 0/16	16.0000	192.0000	4.8768
FRONT SIDEWALL HEIGHT	= 16'- 0 0/16	16.0000	192.0000	4.8768
BUILDING LENGTH	= 110'- 0 0/16	110.0000	1320.0000	33.5280
RIDGE FROM BACK BLDG LN.	= 42'- 6 0/16	42.5000	510.0000	12.9540
ELEVATION OF FRONT COL.	= 0'- 0 0/16	0.0000	0.0000	0.0000
BACK ROOF PITCH	= 1.0000 : 12			
FRONT ROOF PITCH	= 1.0000 : 12			

LOADING: ADD'L DEAD = 0.00 PSF (TOTAL DEAD LOAD = ADD'L DEAD + 2 PSF (PURLINS & SHEETING) + FRAME WEIGHT = 3.70 PSF)
 LIVE = 50.00 PSF
 WIND = 34.00 PSF
 SNOW = 40.00 PSF

SPECIAL WIND LOAD APPLICATION: BACK WALL = 13.74 PSF - BACK ROOF = 12.00 PSF
 FRONT ROOF = 12.00 PSF - FRONT WALL = 8.60 PSF

THE ABOVE LOADS COMBINED WITH ANY SPECIAL LOADS APPEAR IN THE LOAD CASES AS DESCRIBED BELOW:

LOAD CODES	DESCRIPTION	STRESS FACTORS
1, 3, 0, 0, 0 DEAD LOAD	+ LIVE LOAD	1.00
1, 25, 41, 0, 0 DEAD LOAD	+ SPECIAL WIND BACK	1.00
1, 27, 41, 0, 0 DEAD LOAD	+ SPECIAL WIND FRONT	1.00
1, 3, 25, 41, 0 DEAD LOAD	+ LIVE LOAD	1.00
1, 3, 27, 41, 0 DEAD LOAD	+ LIVE LOAD	1.00
1, 15, 18, 0, 0 DEAD LOAD	+ SNOW BACK TO RIDGE	1.00
1, 16, 17, 0, 0 DEAD LOAD	+ 1/2 SNOW BK TO RIDGE	1.00
1, 3, 13, 0, 0 DEAD LOAD	+ LIVE LOAD	1.00
1, 25, 41, 13, 0 DEAD LOAD	+ SPECIAL WIND BACK	1.00
1, 3, 13, 0, 0 DEAD LOAD	+ LIVE LOAD	1.33
	+ MBMA EP SUCTION	
	+ MBMA EP SUCTION	
	+ SPECIAL WIND BACK	
	+ SPECIAL WIND FRONT	
	+ 1/2 SNOW FRT TO RIDGE	
	+ SNOW FRONT TO RIDGE	
	+ SPECIAL LOADS	
	+ MBMA EP SUCTION	
	+ SPECIAL LOADS	

BAY SPACINGS FOLLOW: (BACK SIDEWALL LEFT TO RIGHT)
 5 BAYS AT 22' 0 0/16" BETWEEN FRAME LN. 1 AND FRAME LN. 6
 BUILDING LENGTH IS 110' 0 0/16"

VARCO-PRUDEN
A UNIT OF AMCA INTERNATIONAL CORPORATION

FRAME DESIGN - INPUT CONDITIONS

JOB: 33439 1*
PAGE: 2
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PURLIN AND GIRT DATA FOLLOWS:

BACK SIDEWALL GIRT DATA - DIMENSION FROM BLDG. LN. TO OUTSIDE COLUMN FACE IS $0' 1 \frac{5}{8}"$
MAXIMUM GIRT SPACING IS $6' 9 \frac{3}{4}"$
BACK SIDEWALL GIRT SPACINGS (BASE TO EAVE)
Z $0' 3 \frac{0}{16}"$, C $6' 11 \frac{1}{4}"$, Z $5' 0 \frac{0}{16}"$, Z $2' 6 \frac{3}{4}"$,
1' $3 \frac{0}{16}"$,
FRONT SIDEWALL GIRT DATA - DIMENSION FROM BLDG. LN. TO OUTSIDE COLUMN FACE IS $0' 1 \frac{5}{8}"$
MAXIMUM GIRT SPACING IS $6' 9 \frac{3}{4}"$
FRONT SIDEWALL GIRT SPACINGS (BASE TO EAVE)
Z $0' 3 \frac{0}{16}"$, C $6' 11 \frac{1}{4}"$, Z $5' 0 \frac{0}{16}"$, Z $2' 6 \frac{3}{4}"$,
1' $3 \frac{0}{16}"$,
BACK SLOPE PURLIN DATA - DIMENSION FROM BLDG. LN. TO EAVE PURLIN IS $0' 3 \frac{3}{8}"$
DIMENSION FROM EAVE PURLIN TO FIRST INTERIOR PURLIN IS $2' 4 \frac{7}{8}"$
SECOND PURLIN SPACE IS $2' 4 \frac{7}{8}"$
8 PURLIN SPACES AT $4' 6 \frac{0}{16}"$
RIDGE SPACE IS $1' 6 \frac{0}{16}"$
FRONT SLOPE PURLIN DATA - DIMENSION FROM BLDG. LN. TO EAVE PURLIN IS $0' 3 \frac{3}{8}"$
DIMENSION FROM EAVE PURLIN TO FIRST INTERIOR PURLIN IS $2' 4 \frac{7}{8}"$
SECOND PURLIN SPACE IS $2' 4 \frac{7}{8}"$
8 PURLIN SPACES AT $4' 6 \frac{0}{16}"$
RIDGE SPACE IS $1' 6 \frac{0}{16}"$

NUMBER OF FRAMES FOR THIS JOB DESIGN IS 1
FRAME NUMBER ASSIGNMENT BY FRAME LN.: 0, 1, 1, 1, 1, 0,
POST AND BEAM ASSUMED AT FRAME LINE 1
POST AND BEAM ASSUMED AT LAST FRAME LINE 6
BACK SIDEWALL COLUMNS ARE STANDARD (OUTSIDE FLANGE IS VERTICAL)
FRONT SIDEWALL COLUMNS ARE STANDARD (OUTSIDE FLANGE IS VERTICAL)
THE TOPS OF THE INTERIOR COLUMNS ARE RELEASED
FRAME DESIGNED UTILIZING WEB STIFFENERS AS REQUIRED
MAXIMUM ALLOWABLE SLIP PERCENT = 1.030
NORMAL TAPERED MEMBER DESIGN FOR BACK COLUMN
NORMAL TAPERED MEMBER DESIGN FOR FRONT COLUMN
BACK COLUMN BOLTED AT FACE OF COLUMN
FRONT COLUMN BOLTED AT FACE OF COLUMN
FRAME IS DESIGNED AND DETAILED FOR SYMMETRY ABOUT THE RIDGE

VARCO-PRUDEN
A UNIT OF ANCA INTERNATIONAL CORPORATION

FRAME DESIGN - INPUT CONDITIONS

JOB: 23439 1*
PAGE: 3
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SPECIAL FRAME DATA FOR THE 1 FRAME FOLLOWS:

SYMMETRY = YES | SHAPE CODE = SP SPECIAL FRAMEINPUT
DEF CODE = 0 1=MIN. | NUMBER OF SUPPORTED POINTS 4
 2=MAX. | NUMBER OF SPECIAL MEMBER RELEASES 0
 3=INT. | NUMBER OF INTERIOR COLUMNS 2
AVG BAY SPACE 22.00' | NUMBER OF MEMBERS 10
 NUMBER OF CENTER LINE JOINT POINTS 11

DESIGN CODE = SC STRESS CHECK FRAME

LOADING: 0.00 ADDITIONAL DEAD LOAD
 2.00 PURLINS & SHEETING
 1.70 FRAME DEAD LOAD
TOTAL DEAD 3.70 PSF
LIVE 50.00 PSF
WIND 34.00 PSF
SNOW 40.00 PSF

THIS FRAME REQUIRED ON FRAME LINES : 2, 3, 4, 5

6 SPECIAL LOADS APPLIED TO THE ABOVE FRAME FOLLOW	FRAME NO.	SIDE CODE	TYPE CODE	SUPP CODE	DIST MEAS	HORZ. DIST (FEET)	VERT. DIST (FEET)	HORZ LOAD (KIPS)	VERT LOAD (KIPS)	MOMENT (K-IN)	THIS COND	SPECIAL COND 1	LOAD COND 2	W/CASE COND 3	H/CASE COND 4
1	1	2	2	1	1	-6.0000	0.0000	-1.200	-1.200	0.0	8	0	0	0	0
2	1	2	2	1	1	-6.0000	0.0000	0.660	0.660	0.0	9	10	0	0	0
3	1	3	2	1	1	-6.0000	0.0000	-1.200	-1.200	0.0	8	0	0	0	0
4	1	3	2	1	1	-6.0000	0.0000	0.660	0.660	0.0	9	10	0	0	0
5	1	2	1	1	2	0.0000	0.0000	2.260	0.000	0.0	10	0	0	0	0
6	1	3	1	1	2	0.0000	0.0000	2.260	0.000	0.0	10	0	0	0	0

BOUNDARY DATA:

POINT	X-SUP	Y-SUP	M-SUP	X-DISP	Y-DISP	ROTATION
1	1	1	0	0.0000IN.	0.0000IN.	0.0000IN/IN OR RADIANS
11	1	1	0	0.0000IN.	0.0000IN.	0.0000IN/IN OR RADIANS
5	1	1	0	0.0000IN.	0.0000IN.	0.0000IN/IN OR RADIANS
8	1	1	0	0.0000IN.	0.0000IN.	0.0000IN/IN OR RADIANS

INTERIOR COLUMN SPACING AND LOCATION FROM BACK BUILDING LINE

SPACING	LOCATION	ELEVATION
28' 4 0/16"	28' 4 0/16"	0' 0 0/16"
28' 4 0/16"	56' 8 0/16"	0' 0 0/16"
28' 4 0/16"	85' 0 0/16" = SPAN	

THE FOLLOWING CLEARANCE DATA APPLIES TO FRAME NUMBER 1

VERTICAL CLEARANCE AT BACK HAUNCH 13' 4 3/16"
HORIZONTAL CLEARANCE BETWEEN EXTERIOR COLUMNS 81' 0 3/4"
VERTICAL CLEARANCE UNDER FRAME AT RIDGE 18' 0 15/16"
VERTICAL CLEARANCE AT FRONT HAUNCH 13' 4 0/16"

VARCO-PRUDEN
A UNIT OF AMCA INTERNATIONAL CORPORATION

FRAME DESIGN - INPUT CONDITIONS

JOB: 33439 1*
PAGE: 4
DATE: 3-28-88

MEMBER DATA:

MEM	FLANGE TK WIDTH	WEB TK	DEPTH		LENGTH (FT)	ANGLE (DEG)	WEIGHT (POUNDS)	JOINT NOS		FLANGE WEB YIELDS	KL XX (FT)	K LYY (FT)	LB (FT)	SPlice CODES	
			1	2				1	2					J1	J2
FRAME SIDE 1															
1	3/8 11.5	3/16	12.00	22.00	15.300	270.000	579.4	1	2	50.0 50.0	20.05	SET BY P&G SPACE		BP	KN
FRAME SIDE 2															
2	3/16 6.0	1/8	25.00	9.00	18.340	184.764	273.5	2	3	50.0 50.0	26.60	SET BY P&G SPACE		KN	SP
3	3/8 6.0	3/16	9.00	13.00	10.158	184.764	225.2	3	4	50.0 50.0	26.60	SET BY P&G SPACE		SP	SS
LOCATION OF INTERIOR COLUMN MEMBER NO. 9 LOCATED AT															
4	3/8 6.0	3/16	13.00	9.00	14.012	184.764	314.0	4	6	50.0 50.0	14.23	SET BY P&G SPACE		SS	SP
FRAME SIDE 3															
5	3/8 6.0	3/16	13.00	9.00	14.015	175.236	314.0	7	6	50.0 50.0	14.23	SET BY P&G SPACE		SS	SP
LOCATION OF INTERIOR COLUMN MEMBER NO. 10 LOCATED AT															
6	3/8 6.0	3/16	9.00	13.00	10.155	175.236	225.1	8	7	50.0 50.0	26.60	SET BY P&G SPACE		SP	SS
7	3/16 6.0	1/8	25.00	9.00	18.341	175.236	273.5	9	9	50.0 50.0	26.60	SET BY P&G SPACE		KN	SP
FRAME SIDE 4															
8	3/8 11.5	3/16	12.00	22.00	15.300	90.000	579.4	11	10	50.0 50.0	20.05	SET BY P&G SPACE		BP	KN
INTERIOR COLUMNS FRAME SIDES 5, 6 AND 7 FOLLOW:															
FRAME SIDE 5															
9	3/16 7.0	1/8	7.00	7.00	16.572	90.000	201.1	5	4	50.0 50.0	16.57	SET BY P&G SPACE		BP	SP
FRAME SIDE 7															
10	3/16 7.0	1/8	7.00	7.00	16.572	90.000	201.1	8	7	50.0 50.0	16.57	SET BY P&G SPACE		BP	SP

VARCO-PRUDEN
A UNIT OF ANCA INTERNATIONAL CORPORATION
FRAME NO. 1

REACTION SUMMARY / BASE PLATE SUMMARY

JOB: 33439 14
PAGE: 5
DATE: 3-28-88

SUMMARY OF REACTIONS:

SIDE	LOAD COMBINATION	HORIZONTAL	VERTICAL	MOMENT
BACK	1, 3, 0, 0, 0	6.43	18.56	0.00
FRONT	1, 3, 0, 0, 0	-6.43	18.56	0.00
INTERIOR COLUMN # 1	1, 3, 0, 0, 0	0.00	31.65	0.00 AT 28.33 FT FROM BACK BLDG. LN.
INTERIOR COLUMN # 2	1, 3, 0, 0, 0	0.00	31.65	0.00 AT 56.67 FT FROM BACK BLDG. LN.
BACK	1, 25, 41, 0, 0	-5.41	-3.84	0.00
FRONT	1, 25, 41, 0, 0	-2.46	-0.80	0.00
INTERIOR COLUMN # 1	1, 25, 41, 0, 0	0.00	-3.15	0.00 AT 28.33 FT FROM BACK BLDG. LN.
INTERIOR COLUMN # 2	1, 25, 41, 0, 0	0.00	-7.73	0.00 AT 56.67 FT FROM BACK BLDG. LN.
BACK	1, 27, 41, 0, 0	2.46	-0.80	0.00
FRONT	1, 27, 41, 0, 0	5.41	-3.84	0.00
INTERIOR COLUMN # 1	1, 27, 41, 0, 0	0.00	-7.73	0.00 AT 28.33 FT FROM BACK BLDG. LN.
INTERIOR COLUMN # 2	1, 27, 41, 0, 0	0.00	-3.15	0.00 AT 56.67 FT FROM BACK BLDG. LN.
BACK	1, 3, 25, 41, 0	0.66	13.17	0.00
FRONT	1, 3, 25, 41, 0	-8.32	16.21	0.00
INTERIOR COLUMN # 1	1, 3, 25, 41, 0	0.00	26.59	0.00 AT 28.33 FT FROM BACK BLDG. LN.
INTERIOR COLUMN # 2	1, 3, 25, 41, 0	0.00	22.02	0.00 AT 56.67 FT FROM BACK BLDG. LN.
BACK	1, 3, 27, 41, 0	8.52	16.20	0.00
FRONT	1, 3, 27, 41, 0	-0.66	13.17	0.00
INTERIOR COLUMN # 1	1, 3, 27, 41, 0	0.00	22.02	0.00 AT 28.33 FT FROM BACK BLDG. LN.
INTERIOR COLUMN # 2	1, 3, 27, 41, 0	0.00	26.59	0.00 AT 56.67 FT FROM BACK BLDG. LN.
BACK	1, 15, 18, 0, 0	4.01	14.29	0.00
FRONT	1, 15, 18, 0, 0	-4.00	9.23	0.00
INTERIOR COLUMN # 1	1, 15, 18, 0, 0	0.00	26.30	0.00 AT 28.33 FT FROM BACK BLDG. LN.
INTERIOR COLUMN # 2	1, 15, 18, 0, 0	0.00	13.20	0.00 AT 56.67 FT FROM BACK BLDG. LN.
BACK	1, 16, 17, 0, 0	4.00	9.23	0.00
FRONT	1, 16, 17, 0, 0	-4.00	14.29	0.00
INTERIOR COLUMN # 1	1, 16, 17, 0, 0	0.00	13.20	0.00 AT 28.33 FT FROM BACK BLDG. LN.
INTERIOR COLUMN # 2	1, 16, 17, 0, 0	0.00	26.30	0.00 AT 56.67 FT FROM BACK BLDG. LN.
BACK	1, 3, 13, 0, 0	4.88	25.75	0.00
FRONT	1, 3, 13, 0, 0	-4.88	25.75	0.00
INTERIOR COLUMN # 1	1, 3, 13, 0, 0	0.00	31.67	0.00 AT 28.33 FT FROM BACK BLDG. LN.
INTERIOR COLUMN # 2	1, 3, 13, 0, 0	0.00	31.67	0.00 AT 56.67 FT FROM BACK BLDG. LN.
BACK	1, 25, 41, 13, 0	-4.55	-7.79	0.00
FRONT	1, 25, 41, 13, 0	-3.31	-4.75	0.00
INTERIOR COLUMN # 1	1, 25, 41, 13, 0	0.00	-3.16	0.00 AT 28.33 FT FROM BACK BLDG. LN.
INTERIOR COLUMN # 2	1, 25, 41, 13, 0	0.00	-7.74	0.00 AT 56.67 FT FROM BACK BLDG. LN.

VARCO-PRUDEN
A UNIT OF AHCA INTERNATIONAL CORPORATION
FRAME NO. 1

REACTION SUMMARY / BASE PLATE SUMMARY

JOB: 33439
PAGE: 6
DATE: 3-28-88

SUMMARY OF REACTIONS:

SIDE	LOAD COMBINATION	HORIZONTAL	VERTICAL	MOMENT
BACK	1, 3, 13, 0, 0	5.03	12.93	0.00
FRONT	1, 3, 13, 0, 0	-9.55	16.30	0.00
INTERIOR COLUMN # 1	1, 3, 13, 0, 0	0.00	34.18	0.00 AT 28.33 FT FROM BACK BLDG. LN.
INTERIOR COLUMN # 2	1, 3, 13, 0, 0	0.00	29.10	0.00 AT 56.67 FT FROM BACK BLDG. LN.

SUMMARY OF BASE PLATES:

SIDE	BASE PLATE DATA				ANCHOR BOLT DATA			WELDING PATTERN
	MARK NO.	WIDTH	TK	LENGTH	NUMBER	SIZE	BLR	
BACK	BP-B13313	13.00 X	3/8 X	13.00	(4)	3/4 DIA. A36	5.16	OS-3
FRONT	BP-B13313	13.00 X	3/8 X	13.00	(4)	3/4 DIA. A36	5.16	OS-3
INTERIOR COLUMN # 1	BP-J08308	8.00 X	3/8 X	8.00	(2)	3/4 DIA. A36	10.26	OS-3
INTERIOR COLUMN # 2	BP-J08308	8.00 X	3/8 X	8.00	(2)	3/4 DIA. A36	10.26	OS-3

WEB STIFFENER REQUIREMENTS:

MEMBER	STIFFENER NUMBER	DESCRIPTION	LOCATION (FT)	WEB DEPTH (IN)	H/T RATIO	A/H RATIO	A (IN)	STIFFENER SIZE	SIDES	WELDING	DETAIL
								TK	WIDTH	L - S	?
1, 8	1	COL./HAUNCH FLG EX	13.37	21.250				7/16 X 5.5/8	BOTH	STD. CK-OK	YES
2, 7	2	INTERMEDIATE SHEAR	6.16	19.491	144.92	3.00	58.47	1/4 X 2 1/2	ONE	STD. CK-OK	YES
3, 6	2	BEARING (INT. COL)	9.87	12.135				3/16 X 2 3/4	BOTH	OS-3	YES

* NOTE MODIFICATION OF WELD *

BOLTED CONNECTION DATA:

MEMBER	J	PLATE DATA				BOLT DATA				TYPE	MARK #	CONNECTION CAPACITY			
		TK	WD	LENGTH	THICKNESS	SIZE	OUTSIDE	INSIDE	OUTSIDE			INSIDE			
						#ROWS	#BOLTS	#ROWS	#BOLTS						
1, 8	2	4/8 X	12.0 X	2'-1	0/16	3/4" DIA	A325	3	NO	2	NO	FLUSH	3A12425032	1207.9 *K	970.4 *K
2, 7	1	4/8 X	6.0 X	2'-2	0/16	3/4" DIA	A325	3	NO	2	NO	EXT	3B06426032	1207.9 *K	970.4 *K
2, 7	2	4/8 X	6.0 X	0'-10	0/16	3/4" DIA	A325	1	NO	2	NO	EXT	3B06410012	208.9 *K	266.4 *K
3, 6	1	4/8 X	6.0 X	0'-10	0/16	3/4" DIA	A325	1	NO	2	NO	EXT	3B06410012	208.9 *K	266.4 *K
4, 5	2	7/8 X	6.0 X	0'-10	1/16	3/4" DIA	A325	1	NO	2	NO	EXT	3B067100.2	233.1 *K	378.0 *K
INTERIOR COLUMN CONNECTION PLATES															
9, 10	2	3/8 X	7.0 X	0'-8	0/16	1/2" DIA	A325	1	NO	1	NO	EXT	1B07308.	70.2 *K	70.2 *K

FLANGE BRACING REQUIREMENTS:

VARCO-PRUDEN
A UNIT OF AMCA INTERNATIONAL CORPORATION
FRAME NO. 1

FRAME FLANGE BRACE DATA

JOB: 33439 10
PAGE: 7
DATE: 3-28-88

FLANGE BRACING REQUIREMENTS:

BACK SIDE OF FRAME RIDGE TO EAVE:

MEMBER #	1 ⁴ - 6 0/16	6 ⁴ - 0 0/16	10 ⁴ - 6 0/16	15 ³ - 0 0/16	19 ³ - 6 0/16	24 ³ - 0 0/16	28 ² - 6 0/16
LOCATION	9.4279	10.7125	11.9972	12.6115	10.8395	0.0000	13.2018
DEPTH @ FB							
FB MARK #	FB2050	NOT REQ D	FB2064	FB2166	NOT REQ D	NOT REQ D	FB2070

BACK SIDE OF FRAME RIDGE TO EAVE:

MEMBER #	33 ² - 0 0/16	37 ² - 6 0/16	39 ² - 10 13/16	42 ² - 3 11/16
LOCATION	17.5700	21.9382	24.2721	0.0000
DEPTH @ FB				
FB MARK #	NOT REQ D	NOT REQ D	FB3024	NOT REQ D

BACK SIDE OF FRAME BASE TO EAVE:

MEMBER #	0 ¹ - 3 0/16	7 ¹ - 2 1/4	12 ¹ - 2 1/4	14 ¹ - 9 0/16
LOCATION	12.1883	17.4127	21.1781	0.0000
DEPTH @ FB				
FB MARK #	NOT REQ D	NOT REQ D	NOT REQ D	NOT REQ D

VARCO-PRUDEN
A UNIT OF AMCA INTERNATIONAL CORPORATION
FRAME NO. 1

FRAME DETAIL DESIGN SUMMARY

JOB: 33439 1*
PAGE: 8
DATE: 3-28-88

LOCATION	MEM #	LOAD CASE	DEPTH	ACTUAL FORCES			ACTUAL STRESS			ALLOWABLE			STRESS CONDITIONS									
				AXIAL (KIPS)	SHEAR (KIPS)	MOMENT (KIP-IN)	AXIAL	SHEAR	BENDING	AXIAL	SHEAR	BENDING	SUM % COMBINED	% SHEAR								
FRAME SIDE 1																						
AT 13.37 FT	1	5	22.0	-16.4	-5.5	-1082.4	1.3	1.33	10.28	26.19	6.47	28.24	0.407	0.205								
FRAME SIDE 2																						
AT 0.81 FT	2	5	25.0	-7.2	13.0	-1022.0	1.3	3.87	24.87	24.18	6.56	26.05	0.998	0.590								
AT 9.17 FT	3	8	12.7	-3.9	-14.4	-811.4	0.6	6.06	26.07	22.90	16.85	28.05	0.949	0.359								
AT 0.00 FT	4	1	13.0	-8.0	15.8	-941.4	1.2	6.48	29.41	26.07	16.44	33.00	0.930	0.394								
FRAME SIDE 3																						
AT 0.00 FT	5	1	13.0	-8.0	-15.8	-941.3	1.2	6.48	29.40	26.07	16.44	33.00	0.930	0.394								
AT 9.17 FT	6	8	12.7	-3.9	14.4	-811.2	0.6	6.06	26.06	22.90	16.85	28.05	0.949	0.359								
AT 0.81 FT	7	4	25.0	-7.2	-13.0	-1022.1	1.3	3.87	24.87	24.18	6.56	26.05	0.998	0.590								
FRAME SIDE 4																						
AT 13.37 FT	8	4	22.0	-16.4	5.5	-1082.5	1.3	1.33	10.28	26.19	6.47	28.24	0.407	0.205								
FRAME SIDE 5																						
AT 0.00 FT	9	8	7.0	-31.7	0.0	0.0	9.0	0.00	0.00	11.48	20.00	25.15	0.784	0.000								
FRAME SIDE 7																						
AT 0.00 FT	10	8	7.0	-31.7	0.0	0.0	9.0	0.00	0.00	11.48	20.00	25.15	0.784	0.000								
LOCATION	X-COR (FEET)	Y-COR (FEET)	DEP (IN)	AREA (IN2)	RX (IN)	RY (IN)	LX (IN)	LY 1 (IN)	LY 2 (IN)	KLX RX	KLY1 RY	KLY2 RY	SX (IN3)	LB 1 (IN)	RT 1 (IN)	LB 2 (IN)	RT 2 (IN)	QS	QA	CB 1	CB 2	
FRAME SIDE 1	13.37	1.05	13.36	22.00	12.61	9.58	2.75	160.4	14.1	21.0	25.1	5.1	7.6	105.31	160.4	3.18	21.0	3.15	0.94	1.00	1.75	1.03
FRAME SIDE 2	0.81	1.95	14.41	24.94	5.55	9.59	1.10	319.2	11.3		33.3	10.2		40.95	11.3	1.43			0.92	0.98	1.07	
3	9.17	27.60	17.06	12.70	6.74	5.42	1.42	319.2	54.0	54.0	58.9	38.2	38.2	31.12	162.1	1.82	54.0	1.68	1.00	1.00	2.14	1.38
4	0.00	28.33	17.11	13.00	6.80	5.53	1.41	170.8	54.0		30.9	38.3		32.01	54.0	1.68			1.00	1.00	1.00	
FRAME SIDE 3	0.00	28.33	17.11	13.00	6.80	5.53	1.41	170.8	54.0		30.9	38.3		32.01	54.0	1.68			1.00	1.00	1.00	
6	9.17	27.59	17.06	12.70	6.74	5.42	1.42	319.2	54.0	54.0	58.9	38.2	38.2	31.12	162.1	1.82	54.0	1.68	1.00	1.00	2.14	1.38
7	0.81	1.95	14.41	24.94	5.55	9.59	1.10	319.2	11.3		33.3	10.2		40.95	11.3	1.43			0.92	0.98	1.07	
FRAME SIDE 4	13.37	1.05	13.36	22.00	12.61	9.58	2.75	160.4	14.1	21.0	25.1	5.1	7.6	105.31	160.4	3.18	21.0	3.15	0.94	1.00	1.75	1.03
FRAME SIDE 5	0.00	28.33	0.00	7.00	3.52	3.10	1.75	198.9	198.9	198.9	64.2	113.9	113.9	9.64	198.9	2.16	198.9	2.16	0.84	1.00	1.75	1.75
FRAME SIDE 7	0.00	28.33	0.00	7.00	3.52	3.10	1.75	198.9	198.9	198.9	64.2	113.9	113.9	9.64	198.9	2.16	198.9	2.16	0.84	1.00	1.75	1.75

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FRAME NO. 1

DESIGN LOADS AND FRAME FOUNDATION LOADS

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DLR-A
B.W.

SPAN = 85'-0"
BACK SIDEWALL HEIGHT = 16'-0"
FRONT SIDEWALL HEIGHT = 16'-0"
BUILDING LENGTH = 110'-0"

RIDGE FROM BACK BLDG LN = 42'-6"
ELEVATION OF FRONT COL =
BACK ROOF PITCH = 1.0000 : 12
FRONT ROOF PITCH = 1.0000 : 12

THIS FRAME REQUIRED ON FRAME LINES : 2, 3, 4, 5,

BAY SPACING = 22.00 FT.

LOADING: ADD'L DEAD = 0.00 PSF (TOTAL DEAD LOAD = ADD'L DEAD + 2 PSF (PURLINS & SHEETING) + FRAME WEIGHT = 3.70 PSF)
LIVE = 50.00 PSF
WIND = 34.00 PSF
SNOW = 40.00 PSF

SPECIAL WIND LOAD APPLICATION: BACK WALL = 13.74 PSF - BACK ROOF = 12.00 PSF
FRONT ROOF = 12.00 PSF - FRONT WALL = 8.60 PSF

THE ABOVE LOADS COMBINED WITH ANY SPECIAL LOADS APPEAR IN 10 LOAD CASES AS DESCRIBED BELOW:

LOAD CODES	DESCRIPTION	STRESS FACTORS
1, 3, 0, 0, 0 DEAD LOAD	* LIVE LOAD	1.00
1, 25, 41, 0, 0 DEAD LOAD	* SPECIAL WIND BACK * MBMA EP SUCTION	1.00
1, 27, 41, 0, 0 DEAD LOAD	* SPECIAL WIND FRONT * MBMA EP SUCTION	1.00
1, 3, 25, 41, 0 DEAD LOAD	* LIVE LOAD * SPECIAL WIND BACK * MBMA EP SUCTION	1.00
1, 3, 27, 41, 0 DEAD LOAD	* LIVE LOAD * SPECIAL WIND FRONT * MBMA EP SUCTION	1.00
1, 15, 18, 0, 0 DEAD LOAD	* SNOW BACK TO RIDGE * 1/2 SNOW FRT TO RIDGE	1.00
1, 16, 17, 0, 0 DEAD LOAD	* 1/2 SNOW BK TO RIDGE * SNOW FRONT TO RIDGE	1.00
1, 3, 13, 0, 0 DEAD LOAD	* LIVE LOAD * SPECIAL LOADS	1.00
1, 25, 41, 13, 0 DEAD LOAD	* SPECIAL WIND BACK * MBMA EP SUCTION * SPECIAL LOADS	1.00
1, 3, 13, 0, 0 DEAD LOAD	* LIVE LOAD * SPECIAL LOADS	1.33

6 SPECIAL LOADS APPLIED TO THE ABOVE FRAME FOLLOW

FRAME NO.	SIDE CODE	TYPE CODE	SUPP CODE	DIST MEAS	HORZ. DIST (FEET)	VERT. DIST (FEET)	HORZ LOAD (KIPS)	VERT LOAD (KIPS)	MOMENT (K-IN)	THIS COND	SPECIAL COND 1	LOAD COND 2	W/CASE COND 3	COND 4
1	1	2	2	1	-6.0000	0.0000	-1.200	-1.200	0.0	8	0	0	0	0
2	1	2	2	1	-6.0000	0.0000	0.660	0.660	0.0	9	10	0	0	0
3	1	3	2	1	-6.0000	0.0000	1.200	-1.200	0.0	8	0	0	0	0
4	1	3	2	1	-6.0000	0.0000	0.660	0.660	0.0	9	10	0	0	0
5	1	2	1	1	0.0000	0.0000	2.260	0.000	0.0	10	0	0	0	0
6	1	3	1	1	0.0000	0.0000	2.260	0.000	0.0	10	0	0	0	0

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DESIGN LOADS AND FRAME FOUNDATION LOADS

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DLR-5
BW

BAY SPACING = 22.00 FT.

SUMMARY OF FOUNDATION LOADS:
1. FORCE=KIPS MOMENT=INCH-KIPS

SIDE	LOAD COMBINATION	HORIZONTAL		VERTICAL UPLIFT	VERTICAL DOWN	MOMENT (+ COUNTERCLOCKWISE)
		IN	OUT			
BACK SW COL	1, 3, 0, 0, 0	-	6.43	-	18.56	0.00
	1, 25, 41, 0, 0	5.41	-	3.84	-	0.00
	1, 27, 41, 0, 0	-	2.46	0.80	-	0.00
	1, 3, 25, 41, 0	-	0.66	-	13.17	0.00
	1, 3, 27, 41, 0	-	8.52	-	16.20	0.00
	1, 15, 18, 0, 0	-	4.01	-	14.29	0.00
	1, 16, 17, 0, 0	-	4.00	-	9.23	0.00
	1, 3, 13, 0, 0	-	4.88	-	25.75	0.00
	1, 25, 41, 13, 0	4.55	-	7.79	-	0.00
1, 3, 13, 0, 0	-	9.03	-	12.93	0.00	
FRONT SW COL	1, 3, 0, 0, 0	-	6.43	-	18.56	0.00
	1, 25, 41, 0, 0	-	2.46	0.80	-	0.00
	1, 27, 41, 0, 0	5.41	-	3.84	-	0.00
	1, 3, 25, 41, 0	-	8.52	-	16.21	0.00
	1, 3, 27, 41, 0	-	0.66	-	13.17	0.00
	1, 15, 18, 0, 0	-	4.00	-	9.23	0.00
	1, 16, 17, 0, 0	-	4.00	-	14.29	0.00
	1, 3, 13, 0, 0	-	4.88	-	25.75	0.00
	1, 25, 41, 13, 0	-	3.31	4.75	-	0.00
1, 3, 13, 0, 0	-	9.55	-	16.30	0.00	
INT. COL # 1	1, 3, 0, 0, 0	-	-	-	31.65	0.00 AT 26.33' FROM BACK BLDG LINE
	1, 25, 41, 0, 0	-	-	3.15	-	0.00
	1, 27, 41, 0, 0	-	-	7.73	-	0.00
	1, 3, 25, 41, 0	-	-	-	26.59	0.00
	1, 3, 27, 41, 0	-	-	-	22.02	0.00
	1, 15, 18, 0, 0	-	-	-	26.30	0.00
	1, 16, 17, 0, 0	-	-	-	13.20	0.00
	1, 3, 13, 0, 0	-	-	-	31.67	0.00
	1, 25, 41, 13, 0	-	-	3.16	-	0.00
1, 3, 13, 0, 0	-	-	-	34.18	0.00	
INT. COL # 2	1, 3, 0, 0, 0	-	-	-	31.65	0.00 AT 56.67' FROM BACK BLDG LINE
	1, 25, 41, 0, 0	-	-	7.73	-	0.00
	1, 27, 41, 0, 0	-	-	3.15	-	0.00
	1, 3, 25, 41, 0	-	-	-	22.02	0.00
	1, 3, 27, 41, 0	-	-	-	26.59	0.00
	1, 15, 18, 0, 0	-	-	-	13.20	0.00
	1, 16, 17, 0, 0	-	-	-	26.30	0.00
	1, 3, 13, 0, 0	-	-	-	31.67	0.00
	1, 25, 41, 13, 0	-	-	7.74	-	0.00
1, 3, 13, 0, 0	-	-	-	29.10	0.00	

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DESIGN LOADS AND FRAME FOUNDATION LOADS

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BAY SPACING = 22.00 FT.

MAXIMUM FOUNDATION LOADS:

1. MAX FOUNDATION LOADS CAN BE FROM ANY LOAD CASE
2. MAX FOUNDATION LOADS ARE NOT FACTORED FOR ANY LOAD CASE

SIDE	HORIZONTAL		VERTICAL	VERTICAL	MOMENT (+ COUNTERCLOCKWISE)
	IN	OUT	UPLIFT	DOWN	
BACK SW COL	5.41	9.55	7.79	25.75	0.00
FRONT SW COL	5.41	9.55	7.79	25.75	0.00
INT COL # 1	-	-	7.74	34.18	0.00 AT 28.33° FROM BACK BLDG LINE
INT COL # 2	-	-	7.74	34.18	0.00 AT 56.67° FROM BACK BLDG LINE

SUMMARY OF BASE PLATES:

SIDE	BASE PLATE DATA			ANCHOR BOLT DATA		
	MARK NO.	WIDTH	TK	LENGTH	NUMBER	SIZE
BACK	BP-813313	13.00 X	3/8 X	13.00	(4)	3/4 DIA. A36
FRONT	BP-813313	13.00 X	3/8 X	13.00	(4)	3/4 DIA. A36
INTERIOR COLUMN # 1	BP-J08308	8.00 X	3/8 X	8.00	(2)	3/4 DIA. A36
INTERIOR COLUMN # 2	BP-J08308	8.00 X	3/8 X	8.00	(2)	3/4 DIA. A36

VARCO-PRUDEN
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ENDWALL FRAME DESIGN - INPUT CONDITIONS

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SPECIAL FRAME DATA FOR THE 7 FRAME FOLLOWS:

SYMMETRY = 1	1=YES	SHAPE CODE = 2	1=RF SELECTED BY PROGRAM	DESIGN CODE = 1	1=YS AUTO-DESIGN FRAME
	2=NO		2=CB SELECTED BY PROGRAM		2=HD HOLD DEPTHS & DESIGN
			3=SP SPECIAL FRAME INPUT		3=SC STRESS CHECK FRAME
DEF CODE = 0	1=MIN	NUMBER OF SUPPORTED POINTS	7	LOADING:	0.00 ADDITIONAL DEAD LOAD
	2=MAX	NUMBER OF SPECIAL MEMBER RELEASES	0		2.00 PURLINS & SHEETING
	3=INT	NUMBER OF INTERIOR COLUMNS	4	TOTAL DEAD	1.76 FRAME DEAD LOAD
AVG BAY SPACE	11.00'	NUMBER OF MEMBERS	18	LIVE	50.00 PSF
		NUMBER OF CENTER LINE JOINT POINTS	19	WIND	34.00 PSF
				SNOW	40.00 PSF

THIS FRAME REQUIRED ON FRAME LINES : 6