Form # P 04

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK CITY OF PORTLAND

Please Read Application And Notes, If Any, Attached

PERMIT

Permit Number: 030458

This is to certify thatAmerican Tower Corp/	Appli	
has permission toCommunications Tower	r with litional lish	
AT 220 Riverside Ind Pkwy	g . 330	H005003
provided that the person or person of the provisions of the Statutes the construction, maintenance a this department.	of I aine and of the ances	g this permit shall comply with all of the City of Portland regulating s, and of the application on file in
Apply to Public Works for street line and grade if nature of work requires such information.	N fication inspect in must go and with permit in procuble re this todaing or at thereoder to the rectangle of the rectangle o	A certificate of occupancy must be procured by owner before this building or part thereof is occupied.
OTHER REQUIRED APPROVALS Fire Dept		Director - Building If Inspection Syrvices
P	ENALTY FOR REMOVING THIS CA	RD ~ ~

City of Portland, M 389 Congress Street, 0		_				03-0458	Issue Date	:	330 H	005003	
Location of Construction:		Owner Name:	,	()		er Address:			Phone:		
220 Riverside Ind Pkwy		American Tov	ver Cor	5. D §	231	Columbus A	ve		978-337-	5210	
Business Name:		Contractor Name):		Cont	ractor Address:			Phone		
		Applicant			Por	tland					
Lessee/Buyer's Name		Phone:			Perm	it Type:				Zone:	
					Ad	ditions - Com	mercial			IM	
Past Use:		Proposed Use:		<u> </u>	Pern	nit Fee:	Cost of Wor	k:	CEO District:	1	
Communications Tower		Communication	ns Tow	er er	<u> </u>	\$51.00	\$4,00	00.00	11	Ĺ	
					FIRE	E DEPT:	Approved	1	CTION:	• •	
					ł		Denied	Use G	roup:	Type:	
					1		_	Ì		127/2	
		<u> </u>	 		1			ļ	1-10		
Proposed Project Description Communications Tower		al Al Diah			 		صيدا			YIC	
Continunications Tower	with addition	iai 4 Disn			Signa	ESTRIAN ACTI	WITTER DEST	Signati		y w	
							•			<i>l</i>	
					Actic	on: Approv	ved App	proved w	/Conditions	Denied	
					Signa	ature:			Date:		
Permit Taken By:	Date Ap	plied For:				Zoning	Approva	al			
gad	05/02	2/2003					• • •				
1. This permit applicat	preclude the	Spe	cial Zone or Revi	ews	Zoni	ng Appeal		Historic Preservation			
Applicant(s) from m Federal Rules.	able State and	☐ Sh	oreland		☐ Variance	e		Not in District or Landma			
2. Building permits do septic or electrical w	olumbing,	□w	etland		Miscella	ineous		Does Not Re	quire Review		
3. Building permits are within six (6) month			☐ Flo	ood Zone		Condition Condition	onal Use		Requires Re	view	
False information mapermit and stop all v	ay invalidate		☐ Su	bdivision		☐ Interpret	ation		Approved		
			Sid	te Plan		Approve	ed .		Approved w/	Conditions	
			Maj [Minor MIN		_ Denied			Denied		
			Date:	5/9/03	<u> </u>	Date:		D	Pate:	2	
				,			,				
				ERTIFICATI							
I hereby certify that I am to I have been authorized by jurisdiction. In addition, is shall have the authority to	the owner to	make this appli work described	cation a d in the	s his authorized application is is	d agen ssued,	t and I agree to I certify that to	to conform the code off	to all ap icial's a	pplicable laws authorized repr	of this esentative	
such permit.											
SIGNATURE OF APPLICANT	-			ADDRESS	5		DATE		PHO	NE	

DATE

PHONE

RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE

All Purpose Building Permit Application

If you or the property owner owes real estate or personal property taxes or user charges on any property within the City, payment arrangements must be made before permits of any kind are accepted.

Location/Address of Construction: KIVENSINO	Industrial Parhway
Total Square Footage of Proposed Structure	Square Footage of Lot
Chart# Block# Lot# A	American Tower-Towerelephone:
Lessee/Buyer's Name (If Applicable) Callo DonnorShip albia telephone	thome, address & Cost Of 4000 Salw Hiberg Phuy Westborough MA Fee: \$ 51.00
current use: <u>Communication</u> towe	D 801
If the location is currently vacant, what was prior use:	
Approximately how long has it been vacant: Proposed use: COMMUNication to Project description: Install 41 dish on continuous contin	ower wadditional 41 dish ommunications tower
Contractor's name, address & telephone: Who should we contact when the permit is ready: Mailing address: We will contact you by phone when the permit is ready.	Amy Mower 978-337-5210 dy. You must come in and pick up the permit and
review the requirements before starting any work, with and a \$100.00 fee if any work starts before the permit	is picked up. PHONE:
IF THE REQUIRED INFORMATION IS NOT INCLUDED IN THE DENIED AT THE DISCRETION OF THE BUILDING/PLANNING INFORMATION IN ORDER TO APROVE THIS PERMIT. I hereby certify that I am the Owner of record of the named property, have been authorized by the owner to make this application as his/h	DEPARTMENT, WE MAY REQUIRE ADDITIONAL DEPT. OF BUILDING INSPERIOUS Or or that the owner of record authorizes the participed work and finitely are authorized agent. I agree to conform to all applicable towe being
shall have the authority to enter all areas covered by this permit at all to this permit.	on is issued, I certify that the Code includes supported representative by reasonable hour to enforce the physions of the code applicable
This is NOT a permit, you may not comme	ance ANY work until the permit is issued.

If you are in a Historic District you may be subject to additional permitting and fees with the Planning Department on the 4th floor of City Hall



Structural Analysis Report

Structure

: Existing 275 ft PIROD guyed tower

ATC Site Name

Portland, ME

ATC Site Number

10047

Proposed Carrier

: Verizon

Carrier Site Name

: Portland North

Carrier Site Number : N/A

County

: Cumberland

Project Number

: 16100

Eng. Number

: 73114890

Dete

: September 6, 2002

11312 South Pipeline Road

Euless, Texas 76040 Phone: (817) 355-4100

Fax: (817) 858-0398



Table of Contents

Introduction	1
Analysis	
Antenna Loads	
Results	,,
Conclusion	
Standard Conditions	
Calculations	Attached
Original Design Profile	Attached

Introduction

The purpose of this report is to summarize results of the structural analysis performed on the existing 275 ft PIROD model #42 guyed tower located at Portland, ME, Cumberland County (ATC site # 10047). The tower was originally designed and manufactured by PIROD, Inc. (Drawing # 87-07-131 dated July 18, 1987).

Analysis

The existing tower was analyzed using Semaan Engineering Solutions, Inc., Software. The analysis assumes that the tower is in good, undamaged, and non-corroded condition. A 5% overstress is allowed in the existing structural members to account for program variances.

Basic wind speed:

80.0 mph

Radial Ice:

0.50" w/ reduced wind

Code:

EIA/TIA-222-F

Antenna Londs

Existing Antennes

Elev. (ft)	Qty	Antennas	Mount	Coex	Carrier
271.0	3	Metawave High Gain	(2) Caster	(12) 1 5/8"	Verizon
271.0	12	Hazeltine 806-105-11-0	(3) Sector mount	(12) 1 5/8"	Verizon
265 .0	ì	D6C-22 6' Std. MW Dish w Radome	Dish Mount	(1) 2"	Verizon
260.0	9	Allgon 7182.15	(3) Sector mount	(9) 1 5/8"	Omnipoint
260.0	1	G3-2.4, 3' Grid Dish	Dish Mount	(1) 1/2"	Ounipoint
241.0	1	DSE-22, 8' HP MW Dish	Dish Mount	(1) 7/8"	Verizon
231.0	1	D6C-22 6' Std. MW Dish w Radome	Dish Mount	(1) 1 5/8"	Verizon
220.0	3	EMS RR65-18-XXXVP	(3) 4' stand-off Mount	(3) 1/2"	Nextweve
216.0	3	Lucent RFU	Leg mounted	(3) 11 mm	Nextwave
92.0	1]	8' Omni	Standoff Mount	(1) 1 1/4"	Unknown
68.0	2	8' Omni	Standoff Mount	(2) 7/8"	Unknown
25.0	2	10022-1, 12' Oumi	Standoff Mount	(2) 1/2"	Unknown
100.0	1	Cushcraft S8063B	Standoff Mount	(1) 1 1/2"	Nextel

Eng. Number 73114890 September 6, 2002 Page 2

Proposed Antennas

Elev.	Qty	Antonnas	Mount	Coax	Carrier
155.0	1	Andrew P4-57 4' Std. MW Dish	Dish Mount	(1) EW90	Verizon

Results

The existing 275 ft PIROD tower with the existing and the proposed antennas is structurally acceptable per EIA/TIA-222-F standards.

The maximum structure usage is: 84.0%

Foundation (Location)	Reactions	Original Design Reactions (kips)	Current Analysis Reactions (kips)	% Of Original Design
	Compression	244.7	252.19	103.1
Tower Base	Horizontal	4.5	1.27	28.3
Anchor at	Uplift	116.9	108.61	92.9
Radius of 115'	Horizontal	79.9	70.63	88.4

The structure base reactions resulting from this analysis do not exceed the ones shown on the original structural drawings, therefore no modifications or reinforcement of the foundations will be needed.

Conclusion

The existing tower can support the existing and proposed antennas as described in this report. If you have any questions or require additional information, please call (817) 355-4100.

Submitted by:

Jianwei "Jack" Kong, P.

Project Engineer

Reviewed by:

Jaime Royes, P.E.

Director, A/E Services

Standard Conditions

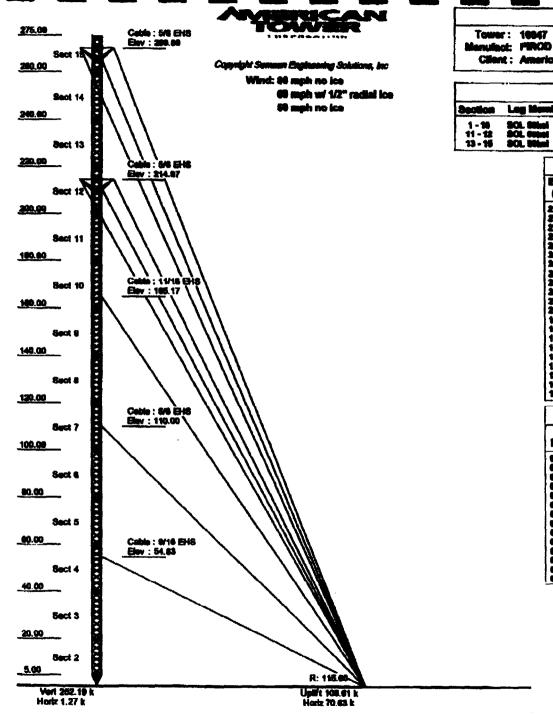
All engineering services are performed on the basis that the information used is current and correct. This information may consist of, but is not necessary limited, to:

- Information supplied by the client regarding the structure itself, the antenna and feed line loading on the structure and its components, or other relevant information.
- Information from fields and/or drawings in the possession of American Tower Corporation, or generated by field inspections or measurements of the structure.

It is the responsibility of the client to ensure that the information provided to ATC Engineering Services and used in the performance of our engineering services is correct and complete. In the absence of information to the contrary, we assume that all structures were constructed in accordance with the drawings and specifications and are in an un-corroded condition and have not deteriorated; and we, therefore, assume that their capacity has not significantly changed from the "as new" condition.

All services will be performed to the codes specified by the client, and we do not imply to meet any other codes or requirements unless explicitly agreed in writing. If wind and ice loads or other relevant parameters are to be different from the minimum values recommended by the codes, the client shall specify the exact requirement. In the absence of information to the contrary, all work will be performed in accordance with the latest relevant revision of ANSI/EIA-222.

All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. ATC Engineering Service is not responsible for the conclusions, opinions and recommendations made by others based on the information we supply.



Job Information

Tower: 10047

Client: American Tower

Location: Portland, ME Shape : Triangle Base Width: 3.50 ft

Sections Properties Log Municers Disgostal Illembers Horizontal Members 2 NF SOLID 2" SOLID 1 NF SOLID SOL SOME SAL SOFTO SOT SOME SAL SOFTO SOT SOME SAL SOFTO SOL Stimi SAT SOLID SOL Stimi SAT SOLID SOL Stimi SAT SOLID SOL Stind 13 - 16 SOL 104-1

		Discrete Appurtenance
ìe	Турю	Qty Description
271,40 271,50 271,50 200,40 200,40 200,40 201,50 201,50 201,50 102,60 102,60 102,60	Panel Stateding Prame Pasel Dish Stateding Prame Pasel Dish State Pasel Straight Aran Pasel Straight Aran Wilde	3 Motoromy High Geth 3 Steter escent 12 Handlan SSI-MS-11-0 1 St. MW Utch wPers. Radome, 1 Grid HW Utch, 9' Dis. 3 Sector mount 9 Align T182.15 1 IP 18W Dish, 6' Dis. 1 St. MW Utch wPers. Radome, 3 MNU-15-600P 3 Februard Handland 1 F Omel
195.60	While Dhair Straight Arm While Straight Arm	2 8' Creek 1 Sed. NW Diek wie Redome, 4' D 1 Standoff Mount 2 12' Corel 1 Standoff Mount 1 Comberek \$60638

			Linear Appurtenance
Elev From	(m) To	City	Description
9.000	271.00	12	1 SNC" Court
0.000	271.00	12	1 \$10° Cook
6.000	205.00	1	2" Caux
0.000	200.00	1	1/2" Cook
0.000	201.00	•	1 SIG" Cook
6.000	241.00	1	7A" Com
8.000	231,00	i	1 SIG Cour
1.000	220.00	á	1/2" Cont
8.000	210.00	2	3/6" Court
0.000	192.00	1	1 W Cons
0.000	100.00	ż	7/6" Com
LAND	155.00	- 1	EMBO
0.000	125.00	ġ	1/2" Conx
0,000	100.00	7	1 1/2" Coox

Site Number: 10047 Location: Portland, ME Copyright Semeen Engineering Solutions, Inc. 9/6/2002 4:19:05 PM

Gh: 1.00

Section Forces

LoadCase 60 dea ice

69.28 mph Wind at 60 deg From Face with Ice

Allow Street Inc: 1,233 Deed LF: 1,880 Wind LF: 1.000

_	ect eq	Wind Height (Ft)	4	Flat Area (eqft)	Round Area (eqit)	ice Round Area (eqit)	Sol Ratio	Cf (of D	r Per	Eff Area (eqft)	Linear Area (eqft)	ice Linear Area (sqft)	Total Weight (Ib)	Weight les (lb)	Struct Force (Ib)	Linear Force (1b)	Total Force (Ib)	E# Face
▋▔	15	267.5	22.34	0.00	7.90	7.32	6.29	2.32 0.	80 1.0	0 0.61	9.30	16,36	16.77	1,178.84	194.37	531.82		1,473.32	
	14	200.0	21.81	0.00	10.62	1.00	0.20	2.33 0.	80 1.6	0.01	12.31	60.61		2,231.60		667.21		3,363.06	
	13	230.0	21.40	0.80	10.54	9.61	0.28	2.33 (80 1.6	0.6 1	12.33			2,250.18				3,274.91	
	12	210.0	20.86	0.00	11.37	8.81	0.36	2.30 8.	30 1.5	0.62	12.82	76.66	80,48	2,554.78				3,190.86	
	11	100.0	24.26	0.06	11,36	1.00	0.36	2.30 8.	90 1.0	0.62	12.00	72.67		2,684.16		955.38		3,100.93	
	10	170.0	19.63	0.00	12.19	1.10	0.31	2.27 6.	30 1.0	0 0.42	13.40	75.18		2,863.67		60.00	3,003.0	3,003.54	. 1
	•	160.0	18.94	0.00	12.19	1.00	0.31	2.27 0.	8 5 1.0	0.62	13.40	70.06	67,86	2,000.63	272.72			2,008.41	
_	8	130.0	18,18	0.00	12.18	1.00	0.31	2.27 0.	80 1.0	0.62	13.40	20.14	86.90	2,876.41	272,72			2,782.30	
	7	110.0	17.33	0.00	12.18	1.00	0.31	2.27 8.	50 1.6	0 0.03	13.40	81.77	71.46	2,902.28	272.72			2,862.62	
		96.00	10.37	0.00	12.19	1.00	0.31	2.27 0.	80 1.0	0 0.02	13.40	84.35		2,940.02		847.07		2,504.81	
_		70.00	15.23	0.00	12.19	1.00	0.31	2.27 0.	90 1.4	0.63	13.40	34,35	73,07	2,040.62	272.72	800.17		2,331.26	
	4	96.00	13,84	8.00	12,19	3.00	8.31	2.27 Q	96 1,6	0.61	13.40	84.38	73,67	2,946.62	272.72	462.50	2,857.2	2,117.50	1
	3	30.00	12.29	0.00	12.19	9,50	0.31	2.27 0.	99 1.0	0 0.62	13.40	84.38	73.67	2,840.82	272,72	410,73		1,860.53	
	2	12.00	12.29	0.00	1.34	7.32	8.32	2.26 0.	86 1.0	0.02	10.20	63.26	54,50	2,218.01	208.11	311,50	1,903.0	1,410.40	. 1
	1	2.80	12.29	9.00	3.19	2.45	8.64	1.78 0.	1. 1	0 9.78	4.41	21.90	18.27	752.17	99.86	106,66	634.36	234.07	1
_ ,	* =	20=Gh	An Con	trole									:	17,007.70	3,000.9				

= 20zGhAg Controls

LondCase 90 deg No ice

80.00 mph Wind at 60 deg From Face with No ice

ow Street Inc: 1,333 Deed LF: 1,000 Wind LF: 1,000

					ice								los						
	Wind		Flat	Round	Round							Linear	Linear	Total		Struct	Unear	Total	
Soul	Halghi	:	Area	Area	Area	Ş al					Area	Area	Area	Weight	Weight	Force	Force	Force	
Seq	(11)	Œ	(eqft)	(mg/t)	(eqit)	Retio	Cf	Df	Dr	Rr		(mqft)	(eqft)	(IIb)	lee (tb)	(lib)	(db)		Feee
11	207.5	29.70	0.00	7.50	8.80	8.15	2.70	6.86	1.00	0.00	4.00	15.34	0,00	996.91	0.00	418.40	000.02	1,018.42	1
14	200.0	29,22	0.00	10.62	0.00	0.15	2.77	0.00	1.00	0,60	6.12	10.00	1.00	1,540.30	0.00	841.67	2,323.3	2,364.57	1
11	230,0	28.63	0.00	10.54	6.00	0.15	2.77	0.80	1.00	0.00	0.13	64.18	0,00	1,802.84	5.00	829.37	2,402.3	2,991.70	1
12	218.0	27.80	0.00	11.37	6,00	0.16	2.71	6.00	1.80	0.80	6.63	70.00	0.00	1,736.73	0.00	549.67	2,577.5	3,127.21	1
11	190.0	27.02	0.00	11.30	6.00	0.16	2.73	4.80	1.00	1.00	6.63	72.57	0,00	1,743.00	0.00	633.67	2,576.4	1,100.07	1
10	170.0	28.17	0.00	12.18	6.00	6.17	2.00	0.00	1.00	0.00	7.14	76.18	0.00	1,927.06	0.00	540,21		3,120.34	
1	180.0	25.25	0.00	12,19	6.00	0.17	2.00	1.00	1.00	0.00	7.14	79.06	0.00	1,344,34	0.00	628.96	2.018.6	3,147.81	1
•	130.5	24.24	6.00	12.19	0.00	6.17	2.00	6.80	1.00	0.00	7.14	86.14	0.00	1,948.14	0.00	607.76	2.548.4	3,004,23	1
1	110.0	23.11	0.00	12.10	9.60	0.17	2.80	4.00	1.00	0.00	7.14	81.77		1,002.00		484.00	2.478.9	2.963.04	1
•	90,00	21,22	0.00	12.19	8.80	0.17	2.86	0.00	1.00	0.00	7.14	84.38		1,500.13		457.12	2414.7	2.571.30	1
4	74.00	20,31	0.00	12.19	0.00	0.17	2.00	0.00	1.00	0.80	7.14	84.36		1,906.13				2,672.90	
4	M.00	18.45	0.00	12.19	0.00	0.17	2.81	0.20	1.00	0.00	7.14	84.36		1,306,13				2,427,91	
1	36.00	16.38	0.00	12.19	0.00	9.17	2.00	0.00	1.00	0.00	7.14	84.35		1,900.12				2,166,12	
1	12.00	14.20	0.00	9.24	0.80	8.18	2.00		1.00	4.00	6.41	63.28		1.401.84		200.05		1,019,35	
1		16.38	0.00	3.10	0.00	0.36					2.03	21.00	6.00	606.00	6.00	77.86	463.23	313,44	
٠.	- 20gGh	Az Cor	trois						0				1	26,118.04	0.00			- , • • •	



Site Number: 10047 Location: Portland, Mili Copyright Semeen Engineering Solutions, Inc. 9/6/2002 4:19:09 PM

2h: 1.00

Section Forces

LoadCase 60 deg

50.00 mph Wind at 66 deg From Face with No ice

Allow Stress Inc: 1.333 Deed LF: 1.000 Wind LF: 1.800

]	Wind Helah		Fiet Area	Round Area	los Round Ares	Sci			Eff Area	Linear	ice Linear Area	Total	Weight	Struct Force	Linear Force	Total Force	er .
. Seq			(agft)	(agit)	•	Ratio	Cf Df	Dr F	r (eqt)	Area (eqft)	(egit)	(3b)	ice (ib)	(ib)	(db)	(lb)	Fece
	267.5	11.84	0.00	7.30	0.00	0.15	2.76 0.00	1.00 0.1	8 4.66	16.35	0.00	906.91	0.00	183.44	234.38	307.82	1
•	260.8		0.00	10.52	0.00		2.77 0.80			00.61		1,540.36	0.00	211.66		1,118.00	
-	230.0		0.00	10.54	0.00		2.77 0.00			64.18		1,502.64	0.00	206.79		1,145.19	
	210.0		0.00	11.37	0.00	0.16				76.68		1,736.73		214.72		1,221.57	
_	i 190.9 i 170.0		0.86	11.36	0.80	0.16	2.05 0.30			72.67 76.18		1,743.06	0.00 0.00	208.48 214.14		1,214.48	
_	180.8		0.00	12.18	0.00		200 0.00			79.06		1.344.34		296.82		1,229,64	
. i	130.0	9,47	0.00	12.19	0.00		2.00 4.00			88.14		1,948.14	0.00	196.34		1,183.84	
1	110.0	9,63	0.00	12.19	0.00		2.05 0.00			81.77		1,962.93	0.00	186.10		1,167.44	
,	96.00		0.00	12.19	0.00		200 0.00			84.36		1,006.13	0.00	178.66		1,121.83	
	78.00	7.93	0.00	12.19	0.00		2.05 0.00			84.35		1,906.13	0.00	186.19		1,044.10	
	#1.00	7.21	0.00	12.19	0.00	0.17	2.00 0.00			84.35		1,000.13	0.00	180.86	787.44		-
	1 38.60 1 12.60		0.00 0.00	12.19	6.00 8.00		2,00 0,00			84.35 81.28		1,908.13	8. 00 8.00	134.06 101.43	704.18 831.13	842.23 632.86	
,	2.50		8.00	1.19	8.00		214 8.00			21.00	8.00	500.30	3.00	38.41	177.04	122.44	
	2QzGI			3,10	3,55	-,		5				15,118.04	8.00	33.71			•

LandCase 10 des les

60.28 mph Wind at 90 deg From Face with ice

Allow Strees Inc: 1,333 Deed LF: 1,860 Wind LF: 1,800

					loo								loe						
	Wind		Flat	Round	Round							Linear	Linear	Total		Struct	Linear	Total	
3 Boot	Height	Ì	Area	Area	Area	Soi					Area	Ares	Area	Weight	Weight	Force	Force	Force	
Seq	(90)	q#	(sqft)	(oqit)	(eqft)	Ratio	Cf	D/	Dr	R	(mqft)	(sept)	(aqit)	(Ib)	ice (lb)	(Ib)	(E)	(Nb)	Face
10	267.5	22.34	0.00	7.50	7.32	0,29	2.31	8.85	1,00	MI	8.30	15.36	16.77	1,176.84	184.37	531.62	841,80	1,473.32	1
14	200.0	21.81	0.00	10.82	8.89	0.20	2.31	0.05	1.00	11.0	12.31	00.01	48.15	2,231,00	264.30	007.23	3,126.5	3,383.06	1
' 13	236.0	21.40	0.00	10.54	8.01	0.20	2.31	8.05	1.00	0.61	12.33	64.18	20.05	2,200,18	284.87	671.87	3,223.4	3,274,91	1
	210.0		0.00	11.37	9.01	0.36	2.31	0.05	1.00	0.62	12.02	70.00	60.46	2,654.78	284.03	676.21	3,606.0	3,198.88	1
11	190.0	20.20	9.00	11.36	8.80	0.30	2.31	6.86	1.00	6.02	12.90	72.07		2,004.16				3,106.93	1
	176.0		6.00	12.19	1.00	0.31	2.27	0.85	1.00	0.82	13,40	75.18	64.48	2,803.87	272.72	900.00	3,500.0	3,000.94	1
•	100.0	16.94	9.00	12.19	8.40	6.31	2.27	0.05	1,00	LSE	13.40	78.05	67.86	2,000.03	272.72	633,04	3,844.5	2,808.41	1
_	130.0		6.00	12.19	9.40	0.31	2.27	0.05	1.00	0.82	13.40	88.14	66.80	2,878.A1	272.72	807.66	2,554.4	2,702.30	1
	118.0		0.00	12.19	3.40	2.31	2.27	0.05	1.00	COS	13.40	81.77	71.40	2,802,20	272.72	879.36	3,482.5	2,002.02	1
	10.05		5.00	12.18	3.40	8.31	2.27	0.80	1.00	0.62	13.40	84.36	71.07	2,040.62	272.72	847.87	3,379.7	2,804.81	1
-	70.86		0.00	12.18	0.00	0.31	2.27	0.86	1.00	0.82	13.40	84.36	73.07	2,940.62	272.72	808.17	3,146.5	2,331.26	1
	90.88		0.00	12.18	3,00	0.31	2.27	0.85	1.00	0.02	13.40	84.35	73.07	2,340.62	272.72	402.80	2,887.2	2,117.88	1
	30.00		9.00	12.18	1.00	6.31	2.27	6.85	1.00	1.82	13.40	84.35	73.57	2,340.82	272.72	410.73	2,837.3	1,000,03	1
	12,00		0.00	8.24	7.32	0.33	2.25	9.85	1.00	4.62	10.28	11.28	84.88	2,216.01	208.11	311.80	1,903,6	1,410,40	1
1	2.00	12.29	0.00	2.19	2.45	0.64	1.71	0.25	1.00	4.78	4.41	21.06	18.27	782.17	99.86	105.86	634.36	236.07	1
₩ .	2QzGh	Ag Coni	trois										:	97,007.78	3,600.9				

~YERISA~

Site Number: 10047

Number: 10047 Location: Portland, ME Copyright Semeen Engineering Solutions, Inc.

9/9/2002 4:19:09 PM

Z/ X

Gh: 1.00

Section Forces

LoadCase 90 deg No ice

80.00 mph Wind at 90 deg From Face with No ice

Allow Strees Inc: 1,333 Dead LF: 1,009 Wind LF: 1,000

Soct Soq	Wind Height (R)		Flat Area (eqft)	Round Area (aqft)	Round Area (eqft)	Sol Ratio	Cat	Df	Dr	Rr	Eff Area (eqft)	Linear Area (sefft)	Linear Area (sqft)	Total Weight (ib)	Weight ice (lb)	Struct Force (lb)	Linear Force (1b)	Total Force (Ib)	Eff Face
15	207.5	29.79	0.00	7.50	8.00	0.16	2.71	0.05	1.00	0.00	4,60	18.36	6.06	900.91	0,00	418.40	000.02	1,018.42	1
14	200.0	29.22	8.00	10.52	8.00	0.15	2.77	0.86	1.00	0.58	6.12	60.81	0.00	1,540.36	0.00	841.57	2,323.3	2,864.87	1
13	230.8	28.63	0.00	10.84	8.00	0.16	2.77	' 0.0 5	1.00	0.86	6.13	64.18	0.06	1,002.04	0.00	829.37	2,402.3	2,931.70	1
12	210.0	27.20	9.00	11.37	1.00	0.16	2.71		1.00	0.88	6.63	70.00		1,736.73	0.00	840.67	2,577.5	3,127.21	1
11	190.0	27.02	0.00	11.36	8.00	0.16	2.71	LIS	1.00	0.80	8.63	72,67	0.00	1,743.66	0.00	833.67	2,578.4	3,100.07	1
10	170.0	26,17	0.00	12.10	8.00	0.17	2.61	4.85	1,00	0.00	7.14	78.18	0.00	1,927.00	0.00	848.21	2,681.1	3,129.34	1
	180.0	25.25	0.00	1210	0.00	0.17	2.61	0.35	1.00	0.00	7.14	79.05	0.00	1,344.54	0.00	528.95	2,518.6	3,147.81	1
8	130.0	24.24	0.00	12.10	0.00	0.17	2.00	1.05	1.00	0.00	7.14	80.14	0.00	1,348,14	0.00	807.76	2,848.4	3,006.23	1
7	110.0	23.11	0.00	12.19	9.00	0.17	2.00	0.05	1.00	0.50	7.14	81.77	0.00	1,962,93	0.00	464.00	2,478.5	2,965.04	1
	90.00	21.32	0.50	12.19	0.80	9,17	2.00	8.86	1.00	1.0	7.14	84.36	0.00	1,300,13	0.00	467.12	2414.7	2,871,86	1
	70.00	20.31	0.00	12.18	8.00	0.17	2.00	4.85	1.00	0.00	7.14	84.35	0.00	1,906,13	6.00	425.45	2.247.A	2,672.98	1
4	90.00	18.45	0.00	12.19	8.00	0.17	2.00	4.86	1.00	6.00	7.14	84.36	0.00	1,006.13	0.00	306.45	2,041.4	2,427.91	1
3	30.00	14.30	0.00	12.19	0.00	0.17	2.00	4.55	1.00	0.00	7.14	84.35	0.00	1,906,13	0.00	343.19	1,812.9	2,166.12	1
2	12.80	10.38	0.00	9.24	0.00	0.18	2.00	4.85	1.00	0.50	E.41	63.36		1,481,84	6.00	200.05	•	1,619.35	
1	2.56	16.38	0.00	3.19	8.00	0.36	2.14	4.35	1.00	0.84	2.05	21.00	0.06	306.80	0.00	77.86	463.23	313.44	1
	2QzGh	Ag Con	trois											25,118.04	0.00				

LondCane 90 des

50.00 mph Wind at 90 deg From Face with No ice

Allow Street Inc: 1,333 Dead LP: 1,000 Wind LP: 1,000

t					lee								loo						
	Wind		Plat	Round	Round							Linear	Linear	Total		Struct	Linear	Total	
Boot	Holgh	:	Area	Aree	Area	Sei					Area	Area	Area	Weight	Weight	Force	Force	Force	
804	(74)	₽	(sqft)	(sqft)	(sqft)	Platfo	CI	Of	Dr	N	(eqit)	(majt)	(adig)	(db)	loe (%)	(Mb)	(IIb)	(lb)	Face
	267.5		0.00	7.80	8.00	0.16	2.7	1 0.05	1.00	0.56	4.05	16.36	0.00	908.01	0.00	183.44	234.30	307.52	. 1
	200.0		9.00	10.02	0.00	0.16	27	7 0.85	1.00	6.88	6.12	00.01	0.00	1,846.36	0.00	211.55	967.54	1,115.00	1
	230.0		0.00	10.64	0.00	0.16	2.7	7 6.85	1.00	0.86	6.13	64.18	0.06	1,002.64	9.00	206.79	\$38.41	1,146.19	1
	210.0		6.60	11.37	6.00	0.16	2.7	3 0.8 5	1.00	0.00	6.63	70.00	0.00	1,736.73	0.00	214.72	1,806.8	1,221.57	1
	180.0		6.00	11.36	0.00	0.16	2.7	3 0.05	1.00	4.66	6.63	72.67	0.86	1,743.00	9.00	206.46	1,000.0	1,214.48	1
	170.0		8,80	12,18	0,00	0.17	2.0	}	1.00	0.80	7.14	78.18	0.00	1,927.00	0.00	214.14	1,006.2	1,222.40	1
	186.0	9.86	0.00	12.18	8.60	8.17	2.0	i aas	1.00	4.80	7.14	79.05	0.00	1,344.84	0.00	200.02	1,022.0	1,220.54	1
	130.0	9.47	0.00	12.10	0.00	0.17	2.0	B 0.85	1.00	0.00	7.14	80.14	6.00	1,546.14	0.00	190.34	906.00	1,198.84	1
7	116.0	9.03	0.00	12.18	5.00	0.17	2.0	LIS	1.00	0.00	7.14	81.77	0.86	1,962.03	0.00	180,10		1,167.44	
	98.00	8,82	0.00	12.10	0.00	0.17	2.00	8.86	1.00	0.00	7.14	84.36	0.00	1,000.13	0.00	170.00	943.27	1,121.83	1
-	76.00	7.83	0.00	12.10	8.80	0.17	2.00	18.0	1,00	4.00	7.14	84.36	0.00	1,906.13	0.00	186.18	877.91	1,044,10	1
4	80.00	7.21	8.00	12.18	8.00	0.17	2.0	0.85	1,00	0.00	7,14	34.35	9.00	1,908.13	0.00	180.06	797.44	94E.40	1
_	38.00	6.40	9.00	12.10	0.00	0.17	2.00	18.85	1.00	6.00	7.14	84.35	9.00	1,508.13	0.00	134,06	706,18	842.23	1
2	12.60	6.40	6.00	9.24	0.00	0.18	2.6	14.05	1.00	0.00	6.41	63.26	0.00	1,481.04	0.00	101.43	631.13	632.66	1
1	2.50	6.40	9.00	3.19	0.00	0.36	2.14	4.85	1.00	0.84	2.03	21.00	0.06		0.00	30.41	177.04	122.44	-
•••	2QzGh	Ag Con	trais										2	25,118.04	0.00				



Site Number: 10047 Location: Fortland, ME Copyright Semeen Engineering Solutions, Inc. 9/6/2002 4:19:00 PM X

Gh: 1.00

Section Forces

LoadCase Normalice

69.28 mph Wind Normal To Face with Ice

Allow Street Inc: 1,233 Dend LF: 1,800 Wind LF: 1,600

)					ice								lce						
	Wind	1	Flat	Round	Round							Linear	Linear	Total		Struct	Linear	Total	
Soot	Helah	ŧ	Area	Area	Area	Sol					Area	Area	Area	Weight	Weight	Force	Force	Force	eri
Seq	(11)	QK	(eqft)	(mqft)	(eqft)	Ratio	Cf	Df	Dr	R	(sqft)	(Stpe)	(eqft)	(Jb)	ice (ib)	(Nb)	(Ib)	(Ib)	Face
10	267.6	22.34	0.00	7.90	7.32	0.20	2.33	1.00	1.80	0.61	9.36	15.36	16.77	1,176,84	194.37	631.02	941.80	1,473.32	1
	200.0		0.00	10.62	9.00	0.29	2.33	1.00	1.00	0.61	12.31	14.00	46.16	2,231.00	264.30	657.23	3,128.5	3,363.86	1
		21.40	0.00	10.64	9.61	8.29	2.31	1.00	1.00	0.81	12.33	64.18	30.05	2,200.18	264.87	671.87	3,223.4	3,274.81	1
	210.0		0.00	11.37	9.01	9.30	2.30	1.00	1.00	0.82	12.92	70.88	60,46	2,864.78		678.21	3,895.6	3,196.88	1
	190,0		0.00	11.36	1.00	0.20	1.31	1.00	1.00	0.62	12.00	72.67	62.40	2,504.18	203,85	556.36	1,000.0	3,100.83	1
	170.0		0.00	12.19	9.86	0.21	2.27	1.00	1.00	0.62	13.40	78.18	84.46	1,803.07	272,72	986.09	3,503.9	3,003.84	. 1
	160.0		0.00	12.19	9.00	0.21	2.27	1.00	1.00	8.62	13.46	79.05	67.06	2,000.63	272,72	633.04	3,644.5	Z,898.41	1
•	130.0		0.00	12.18	4.00	0.21	2.27	1.00	1.00	0.62	13.40	38,14	88.30	2,878.41	272,72	807.88	3,684.4	2,782.30	<i>i</i> 1
		17.33	8.00	12.19	9.80	0.21		1.00			13.46	81.77	71,40	1,902.28	272.72	579.36	3,482.5	2,862.62	1
	99.80		6.00	12.10	9.00	6.31	2.27	1.00	1.00	0.02	13.40	\$4.36	73.07	2,940.62	272.72	647.07	3,379.7	2,004,81	1
•	70.00	16.23	0.00	12.10	9.00	6.31	227	1.00	1.00	6.62	13.40	84.35	73.07	2,540.62	272.72	809.17	3,146.6	2,331.26	. 1
_	60,66		0.00	12.18	8.80	6.31	2.27	1.00	1.00	0.82	13.40	34.35	73.07	2,540.52	272.72	462,50	2,867.2	2,117.55	. 1
	30.00		0.00	12.19	9.80	6.31	2.27	1.00	1.00	6.82	13.40	34.35	73.67	2,940.62	272.72	418.73	2,637.3	1,800.03	1
1	12.00	12.20	0.00	9.34	7.12	6.22	2.2	1.85	1.00	0.62	18.28	63.26	84.80	1,216.01	208.11	311.80	1,903.0	1,410.48	1
1		12.20	0.00	3.19	2.45	0.84	1.71	1.80	1.00	9.75	4.41	21.00	18.27	762.17	66.86	106.56	634.36	238.07	1
	20±G	hAa Cor	ntrole.										;	37,007.70	3,000.9				

= 20zGhAg Controls

LoadCase Normal No los

80.88 mph Wind Normal To Face with No ice

Afform Streen Inc: 1,323 Doed LIP: 1,888 Wind LIP: 1,888

1					100								loe						
	Wind		Plat	Round	Round						277	Linear	Linear	Total		Struct	Lineer	Total	
Best	Helghi	Ł	Area	Area	Artis	Soi					Area	Arte	Area	Weight	Weight	Force	Force	Force	
Seq	(70)	Œ		(Dept)	(mqft)	Ratio	Cf	DI	Dr	Rr	(sqft)	(eqft)		(16)	ice (tb)	(IIb)	(Ib)	(IIb)	Pass
16	267.6	29,79	0.00	7.30	0.90	6.15	2.71	1.00	1,00	0.86	4,05	15.35	0.00	108.01	0.00	418.40	000.02	1,018.42	1
14	200.0	29,22	0.00	10.82	0,00	0,15	2.71	7 1.00	1.00	6.88	6.12	10.00	0.00	1,546.28	0.60	841.87	2,323.3	2,884,87	1
13	230.0	28,63	0.00	10.64	0,00	0.16	2.71	7 1.00	1.00	6.00	6,13	64,18	6.00	1,002.64	0.60	629.37	2,402.3	2,881.70	1
12	210.0	27.80	0.00	11.37	0,00	0.16	2.71	1.00	1.00	0.88	6.83	70.00	9.00	1,736.73	0.00	540.67	2,577.5	3,127.21	1
11	190.0	27.92	0.00	11.36	0.00	0,16	2.77	1.00	1,00	0.50	8,63	72.87	9.00	1,743.00	0.00	833.67	2,578.4	3,100.07	1
10	176.0	26,17	6.00	12.19	0.00	0.17	2.00	1.00	1.00	0.00	7.14	78.18	9.00	1,027.00	0.00	848.21	2,681.1	3,128.34	1
,	100.6	28.25	0.00	12.19	1.00	0.17	2.00	1.00	1.80	6.00	7.14	79.06	0.00	1,544.84	0.00	525.06	2,818.6	3,147.61	1
	130.0	24.24	8.86	12.10	6.00	0.17	2.0	1.00	1.00	0.00	7.14	88.14	0.00	1,948.14	6.60	807.78	2,848,4	3,000.23	1
, 7	118.5	23.11	0.00	12.18	9.00	9.17	2.0	1.00	1.00		7.14	81.77	6.00	1,502.03	0.00	404.00	2,478.9	2,983.04	1
6	90.00	21.82	8.00	12.18	0,00	0.17	2.00	1,50	1,00	0.00	7.14	84.36	0.00	1,900.13	6.60	467.12	2,414.7	2,871.80	1
•	70.00	28.31	9.00	12.18	0.00	9.17	2.00	1.00	1.00	0.00	7.14	84.35	0.00	1,906.13	6.60	425.46	2,247.4	2,672.00	1
4	90.00	18.45	8,08	12.18	6.00	8,17	2.0	1.00	1.00	4.00	7.14	84.35	6.66	1,506,13	6.60	386.45	2,041.4	2,427.81	1
, 3	30.00	16.30	0.00	12.19	0.00	9.17	2,00	1.80	1,00	0.00	7.14	84,35	0.00	1,006,13	0.00	343.19	1,312.9	2,188.12	. 1
2	12.00	16.30	0.00	1.24	0.00	0,18	2,01	1.00	1.00	6.80	5.41	63,26	0.00	1,401.64	0.00	200.06	1,300.7	1,619.36	1
1	2,50	16.36	0.00	3.19	0.00	0.36	2.14	1.00	1.00	0.84	2.03	21.00	0.00	505.00	0.06	77.86	443.25	313.44	1
** =	20zGI	Ag Con	itrole										1	25,118.04	0.00				



Site Number: 10047

Location: Portland, ME

Copyright Semeen Engineering Solutions, Inc.
Y 9/6/2002 4:18:09 PM

Gh: 1.09

Section Forces

LondCase Normal

50.00 mph Wind Normal To Face with No ice

Allow Strees Inc: 1,333 Dead LF: 1,606 Wind LF: 1,608

					loo								loe						
	Wind		Flut	Round	Round							Linear	Linear	Total		Struct	Linear	Total	
Sect	Height		Aree	Area	Area	Sel					Area	Area	Area	Weight	Weight	Force	Force	Force	211
	(10)	qz.	(eqft)	(Ape)		Ratio	Cf	Df	Dr	Rr	(aqit)	(aqft)	(sqfl)	(Ab)	toe (fb)	(Mb)	(lp)	(lb)	Page
18	287.5	11.84	0.00	7.90	0.00	0.16	2.76	1.00	1.00	0.00	4.85	18.36	0.00	996,91	0.00	163.44	234.38	367.32	1
	200.0		0.00	10.62	0.00	0,15	2.77	1.00	1.00	0.55	6.12	16.00	0.00	1,544,38	9.80	211.55	997.84	1,119.00	1
13	230.0	11.15	0.86	10.64	6.00	0.15	2.77	1.00	1.00	0.00	6.13	64.18	9.00	1,502.64	6.00	206.79	936.41	1,145.19	- 1
	218.0		0.00	11.37	4.00	0.16	2.73	1.00	1.00	0.00	1.65	70.00	0.00	1,736.73	8.00	214.72	1,006.8	1,221.57	1
	196.0		0.00	11.35		0.16	2.73	1.00	1.00		8.63	72.87	0.00	1,743.00	0.60	208,46	1,006.0	1,214.48	1
	170.0		0.00	12.19			2.88					75.18		1,827,80		214.14	1.008.2	1,222,40	1
	180.0		0.00	12.19			2.00				7.14	79.06		1,944,94		205.62		1,229.64	
_	130.0	1.47	0.00	12.18			28				7.14	88.14		1,948,14	0.00	198.34		1,183.84	
	110.0	3.03	0.00	12.19			28				7.14	81.77		1,962,93		180.10		1.157.44	
	90.00		6.09	12.19		70	23				7.14	84.35		1,906,13		178.56		1,121.83	
	70.00	7.83	0.06	12.10			18				7.14	BA.35		1,900.13		100,19		1,044,10	
-	74.04 66.06	7.21	0.00	12.10			24				7,14	94.35		1.006.13	0.00	180.86	797.44		
_	36.00	8.40	0.00	12.18			28				7.14	84.35		1,906,13		134.06	708.18		-
_																191.43	881.13		
-	12.00	6.40	0.00	9.34	0.00		2.00				8,41	83.36		1,481.54					
7	2.50	6.40	0,00	3.19	1.00	0.36	2,14 1	.44	T.90	4.64	2.03	21.00	0.00	906,30	0.00	30,41	177.04	122,44	7
		A A												26 112 64	0.00				

^{** = 2}QzGhAg Controls



Site Number: 10047 Location: Pertland, MR Copyright Semeen Engineering Solutions, Inc.

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Tower Loading

Discrete Appurtenance Properties

	Attach				No los			los -		Distance		Vert
	Elev (ft)	Description	Oty	Weight (Ib)	CaAs (sf)	CaAs Factor	Weight (lb)	CaAn (af)	CaAs Factor	From Face (ft)	X Angle (deg)	Eoc (Tt)
_	271.0	Matewaye High Gain	3	150.00	25,200	0.75	200.00	28.600	0.75	0.000	0.00	0000.0
и	271.0	Sector mount	3	400.00	11,000	0.75	00.000	14.000	0.75	0.000	0.00	0.000
	271.0	Hexeltine 805-105-11-0	12	17.00	3.900	0.76	58.00	4,430	0.75	0.000	0.00	0.000
	265.0	Std. NW Dieh w/Pers.	1	162.00	24.410	1.00	321.00	25.000	1.00	0.000	0.00	0.000
	200.0	Grid MW Dieh, 3' Die.	1	51.00	5.000	1.00	102,00	12,000	1.00	0.000	00,0	0.006
	200.0	Sector mount	3	406.00	11.000	0.75	800.00	14.000	0.75	0.000	0.00	0.000
	200.G	Aligon 7182.15	•	10.06	2.800	0.78	24.00	3.360	0.75	0.000	0.00	0.000
	341,0	HP NAV Dieh, & Die.	1	478.00	63.420	1.00	1010.00	64.788	1.00	0.000	0.00	0.000
	231.0	Std. MW Dieh w/Pera.	1	162,00	24.410	1.00	321.00	25.000	1.60	0.000	0.00	0.000
	220.0	RR65-18-00NP	3	12.00	5.230	1.00	35.00	5.800	1.00	0.000	0.00	0.000
	220.0	4' stand-off	3	41.00	4.008	8.57	128.00	5.000	0.67	0,000	0.00	0.000
	216.0	RFU	3	20.00	5.320	1.00	83.00	6.440	1.80	0,000	0.00	0.000
	192.0	Standoff Mount	1	150.00	4.000	1.00	280.00	6.000	1.00	0.000	0.00	0.000
	182.0	8' Omni	1	12.00	2.500	1,00	26.00	2.800	1.80	0.000	0.00	4.200
	100.0	Standoff Mount	1	180.00	4.000	1.00	280.00	6.000	1.80	0.000	0.00	0.000
_	100.0	8' Omni	2	12.00	2.500	1.00	20.00	2.800	1,00	0.000	0.00	4.280
	105.0	8td. MW Dieh wie Radome,	1	188.00	20.510	1.00	277.00	21.790	1.00	0.000	0.00	0.000
	125.0	Standoff Mount	1	180.00	4.000	1.00	250.06	6.000	1.00	0.000	0.00	0.000
_	125.0	12' Omni	2	40.06	4.226	1.90	75.00	5.860	1.00	0.006	0.00	8.285
_	100.0	Standoff Mount	1	160.00	4.000	1.00	250.00	6.000	1.80	0.008	0.00	0.000
	100.0	Cuehcraft 88063B	1	10.00	2.000	1.00	20.00	3.000	1.00	0.006	0.00	9.040
		Totals	84	2787.00			4874.00		Num	ber of Appur	tenences :	21

Linear Appurtenance Properties

	Elev From (R)	Elev To (ft)	Description	Caty	Width (In)	Weight (Ib/R)		Spread On Faces	Bundling Arrangement
(1.00	271.0	1 5/8" Coex	12	1.90	1.04	Y	Lin App	Dundled
	1.00	271.0	1 8/8" Coex	12	1.96	1.04	Y	Lin App	Sunded
	1.00	206.0	2" Coux	1	2.00	1.04	Y	Lin App	Separate
	1.00	200.0	1 5/8" Coex	•	1.98	1.04	Y	Lin App	Separate
	1.00	266.0	1/2" Coex	1	0.65	0,16	Y	Lin App	Separate
	1.00	241.0	7/8" Coex	1	1.11	0.52	Y	Lin App	Separate
	1.00	231.0	1 5/8" Coex	1	1.00	1.04	Y	Lin App	Soparate
	1.00	220.0	1/2" Coax	3	0.05	0.16	Y	Lin App	Separate
	1.00	216.0	3/8" Coax	3	0.44	0.00	Y	Lin App	Separate
	1.00	192.0	1 1/4" Coast	1	1.00	0.06	Y	Lin App	Separate
	1.00	100.0	7/8" Coex	2	1.11	0.52	Y	Lin App	Separate
•	1.00	155.0	EWO	1	1.32	0.32	Y	Lin App	Separate
_ (1.00	125.0	1/2" Coux	2	0.85	0.16	Y	Lin App	Separate
•	1.00	100,0	1 1/2" Coux	1	1.66	0.06	Y	Lin App	Separate



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Force/Stress Summary

	Section: 1	PIROD42B		Bot Elev	(14): (),00)	ŀ	tol	jest (St): 6.0 (_		-		
			_		•	_		- 44			-	Mount		More			Beer Ceo	Une	
			Force		Lan		waln;				Pa		Num					*	Combroli
	sc Compression Man	nber	(Jdp)	Load Case	(14)	X	Y	Z		KLAR	(lost)	(Julb)	Bolts	nose	(#	(q)	(kip)		
	3 SOL - 2 1/4" SOL		-82.77	Normal for	1.8	6 1	100 1	60	100	38.3	34.7	138.10		0	-	.00	0.00		Member
HO			9.00	1	0.00		0	9	•	0.0	0.0	0.00	-	0	_	.00	0.00	0	
DW	4 SOL - 24 SOLI	D	4.84	Normal toe	2.44	•	80	90	90	78.1	28.9	11.43	2 0	9	0	.00	0.00	36	Member
			5		_	_	Cas	Ma		Num	She		Beer	Ue					
Me	x Tension Member		Force (idp)	Lond Case	() (M) Bo		Holes		idp) C			- 4	Conf	role		
LEG	<u> </u>		0.00			0	0.		0	0		1.00	0.0	0	0				
	- RIZ SOL - 3/4" SOLJ	D	12.44	Normal los		-	17.	\$7		9		0.00	9.0	6 7	10	Aem	ber		
	6 SOL-34" SOLI		1.05	Normal lee			17.	47	•	0	(3.60	9.6	• 1	11 1	lem	ber		
	Section: 2	PIROD42	الادانس <u>ي</u>	Bot Elev	(ft): l	3,00)	}	lel	pht (M): 15.	000							
												Mount					Bour		
			Foree		Lan		recin	5%			Pe	Cap	Num	Num	C	op	Cep	Uee	
	sc Compression Mar	mber	(Idp)	Load Case	(70)	X	Y	Z		KLR	(heil)	(Mp)	Botts	Hole) (k	(p)	(kdp)	*	Control
	8 SOL -2 1/4" SOI		-06.00	Normal Ico	2.1	0 1	100	100	100	81.0	32.3	128.2	. 6	0	-	.00	0.00	-	Member
HOI			0.00	ı	0.00	10	0	0	0	0.0	9.0		-	9	-	.00	0.00		
DIA	G SOL - 3/4" SOLI	Ð	-0.74	Normal lee	4.21	15	80	•	80	136.6	10.5	4.7	9 0	0	•	.00	0.00	16	Member
			Fares				Cap			News	Sho	_	Sear Selection	, Ue		201	kole		
100	x Teneion Member		(trip)	Load Case	(Au	<u> </u>	والسيوشي) Bo		Hotes		HP) C							شمينون ر جيمر اس
	3		0.00			0		.00	0	0		D.O.C	1.0 1.0	_	0 M 1				
	-							47	-										
	RIZ 80L - 34" 80LI			Normal foe			17.	-	-	_		B.06		-		Aem			
	RIZ BOL - 3/4" BOLI MB BOL - 3/4" BOLI			90 dag No lee		*	17. 17.	.67	ò	Ö		9.06	0.6	-		Aem			
					(R): 2	20.0	17.	.67		Ö		9.06		-					
	4 SOL - 34" SOLI	D		90 dag No lee	(ft): 2		17.	.67		Ö): 20.	9.06	0.0	6	3 (Aem	ber Bear		
	4 SOL - 34" SOLI	D		90 dag No lee	(ft): 2		17.	.67 	lek	o the (fi): 20. Pe	P.06 POG Mount Cap	0.6 Nurs	Num	3 I	Aem 	Bear Cap	Ues	
DIA	4 SOL - 34" SOLI	PIROD42	0.86	90 dag No lee			17.	.67	lek	Ö): 20.	9.06 906	0.6 Nurs	6	3 I	Aem 	ber Bear		Control
DIA	Section: 3 **Compression Nor	PIROD42	C.86 Force (Mp)	Bot Elev	Len	B ₁	17. 10	67 % Z	lek	O plue (fi KL/R): 20. Pe	POG Manuk Cap (Mp)	0.6 Auru Huru Bolts	Num	3 (A	Aem 	Bear Cap	%	Control Member
DIA	Section: 3 **Compression Her **BOL - 2 1/4" SOI	PIROD42	C.86 Force (Mp)	Bot Elev Lond Case Normal lee	Len (R)	X X	17. 10 radin Y	67 % Z	let	o plue (fi KL/R	Pe (Not) 32.1	0.06 Manub Cap (Mp) 127.86	O.S Nursi Bolts 5 0	Murn Moler G	3 SA	Aem ep (p)	Bear Cap (hip) 0.00 8.00	70 0	Member
Maria LEG	Section: 3 **Compression Her **BOL - 2 1/4" SOI	PIROD42 mber	0.80 Force (Mp) -80.80 0.00	Bot Elev Lond Case Normal lee	Len (R)	X 2 1	17. 10 radin Y	67 % Z	let	phik (fil KLJR 91.5 0.0): 20.1 Fe (No!)	0.06 Manub Cap (Mp) 127.86	O.S Nursi Bolts 5 0	Num Holes	3 SA	Acomo	Bear Cap (kip)	70 0	Member
DIA Mari	Section: 3 Ex Compression No. 2 SOL - 2 1/4" SOL RIZ	PIROD42 mber	0.86 Force (Mp) -90.96 0.00 -1.66	Bot Elev Lond Case Normal les	Len (R) 2.4 6.00 4.21	# 1 12 1 10	17. 100 recting Y 100 0	67 Z 100 0	100 100 0	0 pht (fi KL/R 91.6 0.9 196.1	Fe (feet) 32.1 8.0 18.7	9.06 Mount Cap (Mp) 127.80 9.00 4.70	O.6 Num Boits 0	Num Hole 0	3 (A	Aem ep (p)	Bear Cap (hip) 0.00 8.00	70 0	Member
Maria LEG HOI DIA	Section: 3 E Compression Mer B SOL - 2 1/4" SOI RIZ RE SOL - 3/4" SOLI	PIROD42 mber	0.86 Force (ldp) -90.90 0.00 -1.60 Force	Bot Elev Load Case Normal lee 90 deg lee	Len (R) 2.4 6.00 4.20	2 1 10 13 14 15 15 15 15 15 15 15 15 15 15 15 15 15	17. 10 100 100 100 100	87 Z 100 0	100 100 0 0	phik (fil KLJR 91.5 0.0	Pe (600) 32.1 8.0 16.7	9.06 House Cap (Mp) 127.9(9.0) 4.7(O.6 Num Boits O O O O O	Num Holes 0 0	3 Si	Aem ep (p) .00	Bear Cap (kip) 9.00 9.00 9.00	70 0	Member
Black LESS HOLD DIA	Section: 3 Ex Compression Nor SOL - 2 1/4" SOL REZ REZ RES SOL - 2/4" SOLE RES Tension Nomber	PIROD42 mber	0.00 Force (64p) -00.00 -1.00 Force (64p)	Bot Elev Load Case Normal lee 10 deg lee Load Case	Len (R) 2.4 6.00 4.21	2 1 10 13 14 15 15 15 15 15 15 15 15 15 15 15 15 15	17. 100 Y 100 0 00 Cap (ldp	8 % Z 100 0	100 100 0 0	plot (fil KL/IR 91.8 0.0 136.1 Helen	Pe (feef) 32.1 8.6 10.7 Street	9.06 Member Cap (rdp) 127.36 9.01 4.70 nr (rdp) C	0.6 Num Botts 0 0 0 0 0 0 0 0 0 0	Num Holes 9 0 0	3 Si	Aem ep (p) .00	Bear Cap (hip) 0.00 8.00	70 0	Member
Maria LEG	Section: 3 Ex Compression Nor Sol - 2 1/4" SOl REZ REZ RES SOL - 2/4" SOLE RET Tension Nomber	PIROD42	0.00 Force (14p) -00.00 -1.00 Force (15p)	Bot Elev Load Case Normal lee 10 deg lee Load Case	Len (R) 2.4 6.00 4.20 P) (he	2 1 10 13 14 15 15 15 15 15 15 15 15 15 15 15 15 15	17. 100 Y 00 00 Cap (ide	8 % Z 100 0 80 Nu	100 100 0 0	0 pht (fi KL/R 91.6 0.9 196.1	Pe (feef) 32.1 6.6 16.7 Shee	9.06 Member Cap (rdp) 127.36 9.00 4.70 nr kip) C	O.S. Nurs Boits 0 0 0 Dear lap (kip	Num Holes 0 0 0	3 S) C C C C C C C C C	Aem sp lp) .00 .06	Bear Cap (hip) 9.00 9.00 9.00	70 0	Member
Maria LEG	Section: 3 Ex Compression Nor SOL - 2 1/4" SOL REZ REZ RES SOL - 2/4" SOLE RES Tension Nomber	PIROD42 mber LJO	0.80 Force (14p) -90.80 -1.60 Force (15p) 0.60	Bot Elev Load Case Normal lee 10 deg lee Load Case	Len (R) 2.4 6.00 4.20 P) (he	2 1 10 13 14 15 15 15 15 15 15 15 15 15 15 15 15 15	17. 100 Y 100 0 00 Cap (ldp	8 % Z 2 100 0 89 Nu	100 100 0 0	plot (fil KL/IR 91.8 0.0 136.1 Helen	Pe (800) 32.1 6.0 18.7 Since Cap (9.06 Member Cap (rdp) 127.36 9.01 4.70 nr (rdp) C	0.6 Num Botts 0 0 0 0 0 0 0 0 0 0	Num Holes 0 0 0	3 Si Si Si Si Si Si Si S	Aem ep (p) .00	Bear Cap (kip) 9.90 9.90 0.00 trois	70 0	Member



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Force/Strees Summary

Section: 4 PIROD42		Bot Elev (11):	10,0	X 0		Hei	ght	(ft):	26.0	00							
		`									Morni				Shear			
	Porce		Len	-	mek	ng %	•			Fe	Cap	Num	Num	A	Cap	Cap	Uee	
Anna Componentian Marahar	Gelek	Land Case	(90)	X	Y	•	Z	KLI	t	(leef)	(Mp)	Belts	Hole		(ldp)	(ldp)	%	Controls
Bax Compression Mereber			<u> </u>					81	_	32.1	127.M			0	0.00	0.00	91	Member
		Normal 100	2.4		100	100 D			.a.	42.1 0.0	0.00			0	0.00	0.00	0	
MOREZ	8.80		4.2			-				10.7	4.71				0.00	0.00	_	Member
IAG SOL - 3/4" SOLID	-2,34	96 dag No las	7.25	,,,	-	-	-	1		10.7	4.7			•		0,50	•••	
_	Force		•		C	e N	la mari	Nun	a	Shee		Boor	U					
Ellax Tension Member	(kip)	Load Case	(la	•	M	•	leite	Holi	-	Cap (h	-			6	Can	irole		
4	0.00			0		2.00	4		0		.00	0.0		0				
HORIZ SOL - 34" SOLID	1.84			m	,	7.57			ō	_	.00	0.0	-		Mon	ber		
MAG SOL - 34" SOLID	***	90 deg No las		-		7.87	0		•	_	.06	0.0	_	19	Mem	ber		
					_			-64	-		20			_				
Section: 5 PIROD42		Bot Elev	nr):	N. Colon			75	Aur	(14)	29.0	iji Mamb				Sheer	Bass		
				_			1			Fe		Num	Niam		Cap	Can	Uee	
	Force		Lon			7 BY		wa =									*	Controls
lax Compression Member	(Mp)	Load Case	(11)	X	*		<u>Z</u>	KI	τ	(feet)	(104)	Bolts				(Idp)		
CBG 80L - 21/4" SOLID	-40.85	Normal lee	2.4		100	100			••		127.8	-		0	0.06	0.00		Member
HORIZ	0.00	l	0.8	×	•	0	•	_		0.0	0.00			0	0.00	0.00	0	
MG SOL - 3M" SOLID	-1.77	'96 deg No ica	4.2	N	***	ac	8	130	.1	18.7	4.70	. 0	•	0	9.00	0.00	37	Member
	Force		P	¥	CI	o X	lum	Num		Shor	r	Boar	U					
Max Tension Member	(tdp)	Load Case	(la		(14	p) #	lette	Hole	10	Cop ()	ip) C	ob (jąb) 7	<u> </u>	Con			L
10	0.00			0	1	0.00	0		0	•	.00	6.0	0	0				
NORIZ SOL - 3/4" SOLID	0.00	Hormal No los		80	1	7.67	0		•	•	J 8 G	0.0	0	4	Mem	iber		
DIAG SOL - 3/4" SOLID	1.07	Normal No lee		-	1	7.87	0		•	•	LOG	9.0	0	•	Merr	ber		
Section: 6 PIROD42		Bot Elev	Mar I	10 /					191	20.0	20			-				
E COMPANIE PRODUCE		DAY DIGA !	and a	-	_		- 141	A	, /		Mont				Shear	-		
	Force		Len	•	امور	ne %				Fe	Case	Num	Num		Cap	Cap	Uee	
				_		_	Z	KLA		(test)	(ldp)		Hate			(kip)	%	Controls
Mar Commencelon Hombos	dident	Load Core	(23)	X	•							_		_				
lex Compression Member	(tdp)	Load Case	(10)	X		-				<u> </u>			_				70	Marriage
88 SOL - 2 1/4" SOLID	-00.65	Normal law	2.4	12	100	100		81	Ā	32.1	127,8	•		0	0.00	0.00		Member
BS SOL - 2 1/4" SOLID HORIZ	-02.66	Normal Ico	2.4 0.01	62 1 00		-		91		32.1 0.0	127,20		(0	0.00	00.00	•	
88 SOL - 2 1/4" SOLID	-02.66	Normal law	2.4	62 1 00		100		81		32.1 0.0 10.7	127,80 0.00 4.71		(0	0.00	0.00	•	Member Member
NORIZ PAG SOL - 3/4" SOLID	-03.86 0.00 -1.28 Porce	Normal law 90 dag No law	2.4 0.00 4.20	62 1 90 83	196 8 6 Ca	100 0 00		91 0 130	.A LB LT	32.1 0.0 10.7	127,81 0.01 4.71) 0 1 0	U	0 0 0	0.00 0.00 0.00	99.0 99.0 99.0	•	
BB SOL - 2 1/4" SOLID HORIZ	-03.65 0.00 -1.26	Normal Ico	2.4 0.01 4.21	62 1 90 83	100	100 0 00		130	.A LB LT	32.1 0.0 10.7	127,81 0.01 4.71) 0 1 0	U	0	0.00 0.00 0.00	00.00	•	
NORIZ HORIZ DIAG SOL - 3/4" SOLID	-03.86 0.00 -1.28 Porce	Normal Ice 90 dog No Ice Load Case	2.4 0.00 4.20	62 1 90 83	Car (Ad	100 0 00 00 p N p) 1		91 0 130	.A LB LT	32.1 0.0 10.7 Shee Cap (1	127,86 0.06 4.76 dp) C	Dear np (Idp	U. 9	0 0 0	0.00 0.00 0.00 Con	0.90 0.90 0.90	•	
MORIZ HORIZ DIAG SOL - 3/4" SOLID	-03.66 0.00 -1.28 Porce (hip) 0.00	Normal Ice 90 dog No Ice Load Case	2.4 0.00 4.20	62 1 90 83	Car (Ad	100 0 00 00 p N		91 0 130	.A LB LT	32.1 0.0 10.7 Shee Cap (1	127,86 0.00 4.76 dp) C	Door np (Idp	U. 9	0 0 0	9.90 9.90 9.90 Garr	0.90 0.96 0.96	•	



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Force/Strees Summary

Section: 7 PIROD42		Bot Elev (ft): 1	60	.0	Н	olg	tot (ft	: 20.0	100							
		1	•				•	•		Month			1	Bhear	Bear		
	Porce		Len		racina	%			Fa		Num	Num	•	Cap	Cap	Uee	
		Load Case		X	Y	z		CL/R	(leel)		Bolts				(kdpl)	%	Controls
Max Compression Member																	Member
LEG SOL - 2 1/4" SOLID		Normal lee	2.4					8.18	32.1			0		9.06 0.00	0.06		Member
HORIZSOL - 3/4" SOLID		00 deg No lee	3,60			10 1 		234.0	4.0	1.7	-		•	0.00	0.00	•	Member
DIAG SOL - 3/4" SOLID	-3.36	90 dog No loc	4.25	3	90	7 1	3 0	136.1	10.7	4.71		v	,	u.yo	0.00	/4	
	Force		ľý		Cap	Mu		Num	Sher	-	Boar	Ue	-	Conf	rols		
Max Tension Member	_(49)_	Load Case	(lea	9	(trip)	501			Cap (
LEG	0.00			0			0	0		2.08	0.0	_	0	A#	.		
HONZ SOL - 3AT SOLID		Normal No lee	1	**	17.1		8	0	•	2.06	0.0	-	•	Mem			
DIAG SOL - 3/17 SOLID	4.01	90 deg No los		68	17.1	17	0	. 0	().00	8.0	V	22	Mem	001		
Section: 8 PIROD42		Bot Elev	10: 1	35	.0	H	وأو	int (ft	: 20.	X							
						-		,		Morni			1	Shoor	Boor		
	Ferce		Len		rectng	%			Fe	Cap	Num	Nur	,	Cap	Cap	Uee	*
Max Compression Member		Load Case	(10)		Y	Z	1	KL/R	(feed)	(14)	Bolto	Hole		(kip)	(Idp)	*	Control
LBG \$0L - 2 1/4" BOLID	43.51	Nunnal los	2.4	3 1	100 1	10 1	00	81.8	32.1	127.8	-	(•	0.00	0.00		Member
HORIZSOL - 3/4" SOLID	-0.07	10 day No los	3.30	• 1	100 1	100	100	224.9	4.0	1.7	-	(•	0.00	0.00	-	Member
DIAG SOL-34" SOLID	-2.21	90 deg lae	4.20	3	80	PC	30	136.1	10.7	4.7	• 0	()	0.00	0.00	47	Member
	Force		ħ	,	Case	Nu		Num	She		Bear	Uq					
Max Teneton Member	(ddp)	Load Case	(ha		(Balgo)	Bol		Holee	Cap (tip) C	بليا) جد) 9	6	Cont	rots		
LEG	6.00)		•	0.1	10	•		(LOG	0.1		0				
HOREZ BOL - 1/4" BOLID		90 deg (ce			17.	17	Ī	•		2.06	0.4	10		Mem	ber		
DMG SOL - ME" SOLID		Normal No los		88	17.	17	•	9	(1.00	0.0	16		Mem	ber		
								-	: 20.								
Section: 9 PIROD42		Bot Elev	(act)	-	···	п		har far	- 201	ero Monto				-	-		
•	Force			_	recina	e			Pie.	Can		Near		Cas	Cap	Une	
						75			-	-			•	_			Control
		Land Con-	Lost						/A	-		-	_		(Select)		
Max Compression Member		Load Case		X	Y	Z		KLR	(hasi)		Bolle			(hdp)		*	
Max Compression Member LISS SOL - 2 1/4" SOLID	(ldp)	Load Case Normal los	(R)	X 1	Y	Z	00	81.8	32.1	127.0	Bollo 2 0)	0.00	0.00	84	Member
LISS SOL - 2 1/4" SOLID	(ldp)	Normal los	(100)	X 1	Y	Z	0	8.16 0.0	32.1 0.0	127.0	Balla C 9		,	0.00	0.00	84 0	Member
LIBS SOL - 2 1/4" SOLID HORIZ	(ldp) -00.25 0.00	Normal los	(R)	X 2 1	Y	Z 90	0	81.8	32.1	127.0	Balla C 9		,	0.00	0.00	84 0	Member
LIBS SOL - 2 1/4" SOLID HORIZ DIAG SOL - 3/4" SOLID	(ldp) -00.25 0.00	Normal los	(R) 2.4 0.00	X 2 1 6 3	Y	2 0 0	0	8.16 0.0	32.1 0.0	127.8 6.8 4.7	Balla C 9))	9.00 9.00 9.06	0.00 0.00 0.00	84 0	Member
LISS SOL - 2 1/4" SOLID HORIZ	(tdp) -00.25 0.05 -1.87	Normal los	(R) 2.4 9.00 4.25	X 1 8 1 3	Y 190 1 0 30	2 0 0	0 00	91.8 0.6 136.1	32.1 0.0 19.7 She	127.9 8.8 4.7	Bollo C C C C	U)))	0.00	0.00 0.00 0.00	84 0	Member
LIBS SOL - 2 1/4" SOLID HORIZ DIAG SOL - 3/4" SOLID Max Tension Member	(tdp) -00.20 0.00 -1.07 Force (tdp)	Normal los 80 deg No los Lond Gase	(R) 2.4 0.00 4.21	X 1 8 1 3	Y 100 1 0 80 Cap (Mp)	Z 0 0 Nur Bei	0 00	91.8 0.0 136.1	32.1 0.0 19.7 Sher Cap (127.9 8.8 4.7	Botto C C E C	Us 9)))	9.00 9.00 9.06	0.00 0.00 0.00	84 0	Member
LIBS SOL - 2 1/4" SOLID HORIZ DIAG SOL - 3/4" SOLID Max Tansien Member LIBS	(Idp) -00.85 0.00 -1.87 Force (kip) 0.00	80 dag No los	(R) 2.4 0.00 4.20 P) (No	X 2 1 6 3 7 (i)	Y 100 1 0 80 Cap (Mp)	Z 0 0 0 Nur Bel	0 00	91.8 0.9 136.1 Num Holes	32.1 0.0 19.7 Shee Cap (127.8 6.8 4.7 kip) C	Botto C 0 E 6 Boar ap (kip	Un 9 9	2	9.00 9.00 9.06	0.00 0.00 0.00	84 0	Member
LISS SOL - 2 1/4" SOLID HORIZ DIAG SOL - 3/4" SOLID Max Tanalan Member	(ldp) -00.00 -0.00 -1.87 Force (kip) -0.00 -0.72	Normal los 80 deg No los Lond Gase	(R) 2.4 0.00 4.20 P) (No	X 2 1 6 3 7 (i)	Y 100 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000	91.8 0.8 136.1 Num Hotes	32.1 0.0 19.7 Shee Cap (127.8 6.8 4.7 kgp) C	Botto C C E C E C Dear	Ua () () () () () () () () () () () () ()	2	9.06 9.06 9.06	0.00 0.60 9.00 trole	84 0	Member



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Force/Stress Summary

						_	1	14.6	. 00	-						
Section: 10 PIROD42		Bot Elev	(16): 7		.D	1	HOL	her (sc): 20 .(Skaa	Beer		
	•			_		_ 44			Fe	Momb	Num	-	Cas	Cap	Uee	
	Force	1	Len		'	_	,	w .=				Holes		(kip)	*	Control
Max Compression Member	(Jdp)	Load Case	(11)	X	Y	Z		KLR	(tuel)				(Mp)			
LEG SOL - 2 1/4" SOLID	-73.17	Normal los	2.4	2 1		100			32.1		-	0	0.00			Member
MORIZBOL - 3/4" BOLID	-8.12	: 60 deg Ne lov	3.00	-	86	100		224.0	4.0	1.70		0	0.00		•	Member
DIAG SOL - 24" SOLID	-3.34	90 deg ice	4.25	3		96	60	136.1	10.7	4.70	0	G	8.00	0.00	70	Member
	Forme		P	,	Cas	M		Num	Sher	.	Bear	Lipe		A		
Max Tension Monther	(ldp)	Load Case	(fei	ii)	Phy) B	ofte	Holes	Cup (dp) C	ap (kip	%	GOT	rtrols		
F [2]	0.00)		0	0	.00	0	•	(1.00	0.0		0			
HOREZ BOL - 3/6" BOLID	1.00	Normal No los)	80	17.	,57	•	•	•	0.00	0.0	-		nber		
GIAG SOL - 214" SOLID	3.91	1 90 dag lee		80	17	.67	•	0	(7.06	0.0	9 2	2. Mer	nber		
Section: 11 PIROD42		Bot Elev	(fb): 1	80	.0		Hele	ant (fi): 20.	X00						
3,500			/-A.			•		B 444		Memb			Shee	r Bour		
_	Force		Len		-	g %			Fa	Cap	Num	Num	Cap	Cap	Uee	
Max Compression Member	(fidp)	Load Case	(FL)	x	Y	Z	!	KLAR	(had)	(Idp)	Bolls	Holes	(dip)	(Idp)	%	Control
LEG SOL -2" SOLID	42.01	' Normal los	2.4	12 1	100	100	100	88.0	30.7	96.57	0	•	0.00	0.00	96	Member
HOREZ	0.00	••••	0.00	_	•	•		0.0	0.0	0.00	0	0	0.00	0.00		
MAG SOL - 34" SOLID		10 deg los	4.20	13	50	*	20	136.1	10.7	4.71	0	0	0.00	0.00	30	Member
-	Force		P ₂	,	Cap	N		Num	She		Boar	Uee	-	rárola		
Mux Tension Member	(tdp)	Load Case	(Pa	II)	(14)		ollo.	Holes	Cap (the) C	ab (jab					· · · · · · · · · · · · · · · · · ·
LAG	5.00)-		0	-	.00	9	0		0.00	0.0	•				
HORIZ SOL - 3/4" SOLID	8.86	60 deg los		#0	17	.67		•		0.00	0.0	-		nber		
DIAG BOL - 3/4" BOLID	0.91	2 00 deg lee		*	17	.57	0	•	(1.00	0.0	•	i Me	nber		
Section: 12 PIROD42	·	Bot Elev	(ft): 2	100	٥		Hel	abt (N	3: 20.	X00						
			4- -						,	Memb	•"		Shoo	r Bour		
	Force		Lon		mein	8 %			Fa	Cap	Mum	Num	Cap	Cap	Ues	
	(telet	Loud Case		X	Y	Z	:	KL/R	(1001)	(http)	Sulta	Holos	(kdp)	(ldp)	%	Control
Max Congression Bember												0		0.00	- 44	Member
Max Compression Member		Hormel lee	2.4	4 1	189	100	100		36.8	30.11			0.00			
LBG SOL - 2" SOLID HORIZ SOL - 34" SOLID	-01.00	Normal lee I 00 dag No lee	2.4		190 ·	100	100		70.0 4.0	1.70		0	0.00			Member
.B9 SOL - 2" SOLID	-01.00 -0.03			0 1		100 100 40					. 0	_		0.00	35	Member Member
LB9 SOL - 2" SOLID HORIZ: SOL - 344" SOLID DWG SOL - 344" SOLID	-01.00 -0.03 -4.10 Ferse	i 60 dag No lee I Normal lee	3.80 4.20		40 Cay	100 40	100	224.0 133.8 Num	4.8 11.1 She	1.76 4.91	i 0 i 8 Bear	0 0 Uou	9.00 9.00	9.00	35	
LBB SOL - 2" SOLID HORIZ SOL - 34" SOLID DIAG SOL - 34" SOLID Max Tension Member	-01.00 -0.03 -4.10	i 66 dag No lee	4.26		40 Cay	100 40 No	100	224.0 133.8	4.0 11.1 She Cap (1.76 4.91 or dg) G	Dear	Ueu	9.00 9.00 Cor	0.00 0.00 0.00	35	
LIBS SOL - 2" SOLID HORIZ SOL - 3M" SOLID DAG SOL - 3M" SOLID Max Tension Muniter LIBG SOL - 2" SOLID	-01.00 -0.00 -4.10 Force (Mp) 11.00	Lond Case 100 day No les	3.80 4.20		40 Cap (14)	100 40 10 100 100	100	224.0 133.8 Num	4.0 11.1 Sher Cap (1.76 4.91 ldp) G L06	0 8 Bear up (16p 0.0	Ueu) %	0.00 0.00 Col	0.00 0.00 strote	35	
LIBS BOL - 2" SOLID HORIZ SOL - 3M" SOLID DAG SOL - 3M" SOLID Max Tension Mumber	-01.00 -0.00 -4.10 Force (Mp) 11.00	i 60 dag No Isa i Narmal Isa Load Casa	3.80 4.20		40 Cap (14)	100 40 100 100 100 100 100	100	224.0 133.8 Num	4.8 11.1 Sher Cap (1.76 4.91 or dg) G	Dear	Uou	Got Mer	0.00 0.00 0.00	35	



Site Number: 19047 Location: Portland, ME Copyright Semeen Engineering Solutions, Inc.
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Force/Strees Summary

Section: 13 PRO042 Section: (R): 230.0 Height (R): 20.080 Hamber			D - 4 F1 4				Med		y. 20	40						
Porce Lest Bracking % Pe Cap Hum Num Cap Cap Use Cap Cap Use Cap Cap Use Cap Cap Use Cap C	Section: 13 PROD42		90t E184 (ग्यु: 2	SV.	R	770	न्धार (म	4: 4 07		-		Shee	- Caer		
Section: 14 PIRODA2 Section Se		Banks		1	•	ومصامح	~		Fa		-	Maure			Uee	
Marting Mart								K1 10								Controls
SOULT 361 SOLLD -0.86 dog los 3.800 169 150 169 224.5 4.0 1.78 0 0 0.0									4.22.4	10-4-1						Manhar
August A					•						-	_				
Part					-			•				_				
Real Terrelon Newher	BIVE BOT-3H, BOTID	-3.43	40 deg 100	4.20	•	40 0		5 T34.6	10.7	4.77	2 4	•	4.00	4.00	14	
Box 1-34" SOLID 4.16 Normal No less 80 95.21 0 0 0.00	_	Force		Fy	,	Cap	Num	Num					•			
Normal Sol 1 34" SOLID 1.11 Normal lea 80 17.87 0 0 0.81 0.00 18 Mamber	Mass Teneton Member	(Idp)	Load Case	(100	1)	(Idp)	Bolts	Holes	Cap (dp) C	op (hip	<u> </u>	CON			
Monte Mont	RG SOL -1 24" SOLID	4.15	Normal No los		80	96.2	1 () 0		1. 66		-				
Section: 14 PIROD42 Bot Elev (ft): 248.0 Height (ft): 20.006		1.11	Normal lee			17.8	7 6	•	•			•				
Porce Lent Bresing % Fe Cap Num Num Cap Cap Lent Cap Cap Cap Cap Lent Cap Ca		3.21	40 deg No ice		•	17.5	7 (0	(1,00	0.0	0 11	Mon	nber		
Recompression Number Column Colum	Section: 14 PIROD42		Bot Elev (M: 2	40.	.0	He	lght (f	t): 20.0	X00						
Max Compression Member (Mp) Load Case (R) X Y Z NU/R (Nst) (Nsp) Solis Holes (Nsp) (Nsp) % Controls Max Sol1 3M" SOLID -8.74 60 deg lee 2.42 100 100 100 60.3 28.8 60.32 0 0 0 0.00 0.00 26 Member NAG SOL3M" SOLID -8.46 Member 0.85 0 0.00 0.00 0.00 0.00 0.00 0.00 0.								~ `	•	Month						
LES SOL -1 3M° SOLID -80.74 80 deg lee -2.42 100 100 100 68.3 28.8 69.32 0 0 0.00 0.00 28 Member NORZ SOL - 3M° SOLID -2.46 Normal loe -2.46 Normal loe -2.47 SOLID -3.80 100 100 100 100 24.9 4.0 1.75 0 0 8.90 0.00 28 Member NAS SOL - 3M° SOLID -4.80 100 deg lee -2.42 100 100 100 100 24.9 4.0 1.75 0 0 8.90 0.00 28 Member NAS SOL - 3M° SOLID -4.80 100 deg lee -2.42 100 100 100 100 100 24.9 4.0 1.75 0 0 8.90 0.00 33 Member NAS SOL - 3M° SOLID -4.80 100 deg lee -4.80 deg lee -4.80 100 deg lee -4.80 100 deg lee -4.80 100 deg lee -4.80 100 deg lee -4.80 deg lee -4.80 100 deg lee -4.80 leer leer -4.80 deg lee -4.80 deg lee -4.80 leer leer -4.80 deg lee -4.80 deg lee -4.80 leer leer -4.80 deg lee -4.80 deg lee -4.80 leer leer -4.80 deg leer -4	•	Force		Lon	8	moing	%		Fe				Cap	•		
### SOL - 34" SOLID ### SO	itas: Compression Member	(ldp)	Load Case	(10)	X	Y	Z	KLÆ	(lest)	(ktp)	Bollo	Holes	(ldp)	(kip)		
MAG SOL - 34" SOLID	EB SOL -1 34" SOLID	-40.74	00 deg los	2.4	2 1	00 10	10	0 68.3	25.8		-	•	****		, ,,	
Max Testelon Member Pere	HORIZSOL - 14" SOLID	-4.46	Normal los	3,80	• •	100 16	10	0 234.8				-				
Section: Newbor (Mg) Lead Case (Nst) (Mg) Belle Holes Cap (Mg) Cap (Mg) % Controls SS SOL -1 34" SOLID S.22 Horman No lee 50 96.21 6 0 6.96 6.06 4.06 19 Member CARZ SOL - 34" SOLID 0.23 Horman No lee 50 17.97 0 0 0.96 0.00 4 Member CARZ SOL - 34" SOLID 1.26 96 dag lee 38 17.97 0 0 0.98 0.86 7 Member Section: 15 PIROD42 Bot Elev (R): 290.0 Height (R): 15.000 Member Shear Sear Ferres Len Smelleg % Fe Cap Num Num Cap Cap Uee Max Compression Member (Mg) Lead Case (Ng) X Y Z (Mg) (Mg) Belte Holes (Mg) (Mg) (Mg) % Controls LEG SOL -1 344" SOLID -4.77 40 dag lee 2.36 160 100 160 66.5 29.0 60.76 6 6 0.06 0.00 22 Member Max Tession Member (Mg) Lead Case (Ng) (Mg) Belte Holes Cap (Mg) Cap (Mg) % Controls Max Tession Member (Mg) Lead Case (Ng) (Mg) Belte Holes Cap (Mg) Cap (Mg) % Controls Max Tession Member (Mg) Lead Case (Ng) (Mg) Belte Holes Cap (Mg) Cap (Mg) % Controls Max Tession Member (Mg) Lead Case (Ng) (Mg) Belte Holes Cap (Mg) Cap (Mg) % Controls Max Tession Member (Mg) Lead Case (Ng) (Mg) Belte Holes Cap (Mg) Cap (Mg) % Cap (Mg	MAG SOL-34" BOLID	-1.00	90 dag loe	4.26	3			0 136.1	10.7	4.7	. 0	0	0.00	0,00	; 33	Member
Section:																
Section: 15 PROD42 Section: 15 PROD42 Section: 16 Present % Far Cap Num Num Cap (Np) (Np) (Np) (Np) (Np) (Np) (Np) (Np				-			Hum			_			Con	danle		
COREX SOL - 3N° SOLID 1.26 96 deg lee 80 17.67 0 0 0.86 0.06 4 Member	Max Temien Member				9_	(444)		Holes				<u> </u>				
Section: 18 PROD42 Bot Elev (ft): 288.0 Height (ft): 18.080 Steam Rear					50		-	-				•				
Section: 15 PROD42 Bot Elev (R): 280.0 Height (R): 15.000 Hember Sheer Bear				,	80		-					•				
Marriage Lon Streeting % Fig. Cap Num Num Cap Cap Use	DING BOL-314 BOLID	1.20	10 deg foe		80	17.5	7 (1 0	1 (3.04	0.0	0 7	Med	nber		
Marx Compression Member Co	Section: 15 PROD42		Bot Elev	1(); 2	00.	.O	He	ight (f	l): 16.	700						
State Compression Member (Mp) Lead Case (M) X Y Z KL/R (Ital) (Itip) Rolts Holes (Itip) (Itip) % Controls Light SOL - 1 3/4" SOLID -67.71 60 deg les 2.30 160 100 100 66.5 28.0 66.76 6 8 0.00 0.00 82 Member MOREZ SOL - 3/4" SOLID -6.67 60 deg les 3.600 95 66 96 212.2			`	• •				•	-	Mount						
### SOL -1 3/4" SOLID		Ferue		Lon		Angel	%		Fa					•		
#OREZ SOL - 245" SOLID -4.47 66 deg lee 3.500 95 96 96 212.8 4.4 1.94 0 0 0.00 0.00 24 Member PAG SOL - 245" SOLID -3.18 96 deg lee 4.238 96 90 10 136.6 16.8 4.78 0 0 0.00 0.06 96 Member Max Tension Member (dg) Load Case (hal) (hip) Botts Holes Cap (hip) Cap (hip) % Controls 10/162 SOL - 1 345" SOLID 9.85 Normal No les 98 17.67 0 0 0.06 0.00 3 Member 10/162 SOL - 345" SOLID 8.64 Normal No les 98 17.67 0 0 0.06 0.00 3 Member	dex Compression Member		Load Care	(74)	X	Y	Z	KLA	(Ital)	(Jejp)	Bolts	Holes	(Julp)	(Mp)	<u> </u>	Controls
PIAG SOL - 34" SOLID -3.19 90 deg lee 4.238 90 90 10 136.6 16.8 4.78 0 9 0.00 0.06 96 Member Force Py Cup Num Num Sheer Bear Use (dg) Load Case (hel) (ldp) Botts Holee Cap (ktp) Cup (ktp) % Controls BS SOL - 1 34" SOLID 9.85 Normal No lee 90 96.21 0 0 0.06 8.86 10 Member 10/162 SOL - 34" SOLID 8.64 Normal No lee 90 17.67 0 0 0.06 0.00 3 Member	182 SOL -1 34" SOLID	-67.71	00 deg lee	2.3	• 1	90 10	10 19	0 06.1	29.0	99.7					_	
Force	HOREZ SOL - 24" SOLID	-8.47	46 deg lee	3,00	0	95 1	6 9	6 212.8			-	_				
### Terreton Nember (Idp) Load Case (Rel) (Rel) Botts Holes Cap (Idp) Cap (Rep) % Controls ####################################	DIAG SOL-SIF SOLID	-3.19	10 deg lee	4.23	•	**	16 II	0 136,6	10.8	4.7	• 0	•	0.00	0.06	• ••	Member
### SOL-1 34" SOLID 8.65 Normal No los 68 86.21 0 0 0.06 8.66 10 Member 10/62 SOL-34" SOLID 8.64 Normal No los 68 17.67 0 0 0.06 0.08 3 Member		Force		Py	,								***	-44-		
MOREZ SOL - 34" SOLID 8.84 Normal No les 50 17.67 0 0 0.00 0.00 3 Member	Max Tension Member	(tdp)	Load Case	(ha	•	(ldp)	Botte	Holes	Cap (dp) C	ap (kip) %	ÇOI			
Western Control of the Manual No.	.89 SOL - 1 3/4" SOLID	9.65	Normal No los)		96.2	1 () () (0.06		•				
DIAG SQL - 314" SQLID 3.20 10 deg los 80 17.67 0 0 0.00 0.00 18 Member	Norkz sol - 34° solib	8.84	Normal No les			17.5	7 () 4				•				
	DIAG SOL - 34" SOLID	3.20	10 deg lae			17.5	7 () 0) (0.00	0.0	9 11	Mer	nber		



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Support Forces Summary

		FX	FY	FZ
Load Coo	Nod		(Mp)	(Rulps)
			4.36	-2.78
to day	A1b		-43.86	-4.18 -44.29
	Afa	-0.68	-35.54	-14.22 17.01
_	A1	-0.58	113.10	-0.04
	7	7.00	110110	-505-7
77 (0) deg	A1b	8.27	-15,71	-8.40
_	Atm	-26.81	-46.19	-16.31
	A1	4.96	-15.00	9.87
	1	-0.84	112,05	-0.32
-				
Hermal	Afb	20.22 -20.32	-36.62	-12.40
	Ata	-30.32	-36.65	-12.30
	Af	0.00	-4.35	3.21
	1	0.06	111.87	-0.86
Se deg los	Afb	5.98	43.23	-3.81
	Ata		-13.33 -106.61	-33.65
	A	-3.86	-01.03	38.06
	î'	-6.10	238.48	4.66
	T.			
		40.00		
99 deg ice	A1b	10.91	-25.91	4.42
	Ate	41.87	-106.32	-36.28
	A1	-2.71	-25.86	14.19
	1	-0.00	216.30	-0.40
Mormal los	A1b	46.66	-03.03	-32.71
************	Ata	-80.06	-83.64	-32.00
	A1	0.06	-19.36	3.36
	1	0.00	202.19	0.26
			_	
***	lee Aft	2.26	-7.84	-2.14
99 dag No	Ata		-67.76	-31,45
	A1	-1.98	-82.00	34.04
	1	-0.82	192.22	-0.48
	•	~~~	199.95	
Of deg No		6.00	-16.42	4.86
	Ata		-84.47	-31.13
	A1	-1.40	-16.36	8.80
	1	-1.00	102.46	4.55
Normal No	ico Aft	47.90	-84.61	-25.40
	A1e	-47.94	-84.82	-26.36
-	A1	9.00	-8.77	1.00
	1	0,00	200.20	-0.23
	t Uplik:	100.01 (ldp)		
	-	282.19 (Mp)		
-	Down			
Mon	Shour:	78.63 (ldp)		



Site Number: 10947 Location: Portland, ME Capyright Someon Engineering Solutions, Inc.

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Cable Forces Summary

					A	
				Allow Tension	Tanaion	Uee
-	Elevellen 400	Node 1	Nade 2	(Mp)	(lelp)	*
Lood Case	(41)					
Normal No los	54.83	A1	29	10,36	0.23	1
	54.83	A1b	28e	16.65	2.10	54
_	54.83	Ata	200	10.85	9,10	84
	110.00	Af	57	21.20	0.00	•
	110.00	A1b	6Ta	21.20	13.72	64
	110.00	Ata	67b	21.20	13,71	64
	105.17	At	26	25.06	0.45	1
	105.17	A1b	88a	25.00	16.06	64
	105.17	Ata	96h	26.06	16.63	84
	214.97	A1	T4	21.20	0.85	4
_	214.97	Ata	T4b	21.26	11.00	96
	214.07	Alb	T40	21.20	11.45	63
5	214.97	A1b	T4	21.29	12.05	36
	214,57	Ata	T4e	21.20	11.00	84
	214.07	AI	THE	21.20	0.86	4
	214.87	Af	100	21.20	8.84	3
	214,87	A1b	100a	21.26	11.76	
				21.20	11.78	
	214.97	A1s	100b	21.20	1.44	7
	200.00	A1	78	21,20	10.63	
	200,00	Ata	Tab			44
	200.00	A1b	Tita	21.36	9.37	
	300,00	Alb	18	21.26	10.71	**
	200.00	Ate	Yes	21,28	8.48	44
	200,06	Af	Tible	21.20	1.44	•
	200.06	Af	137	21.20	1.43	
-	200.00	A1b	137e	21.20	10.14	47
	200.00	Ata	1376	21.20	10,16	47

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80 deg No ice	84.83	A1	29	16.85	1.18	7
_	64.83	A1b	29e	16.65	1,14	8
	84.83	Afa	286	18,85	9.73	67
	110,00	A1	87	21.20	1.30	ŧ
	119.00	A1b	57a	21.20	1.25	5
	118.00	Ate	67h	21.20	14.80	80
	105.17	At	98	25.06	1.86	7
	105.17	A1b	36a	28.00	1.86	7
	105.17	Afa	88b	26.00	17.84	71
	214.97	A1	T4	21.26	2.40	11
	214.97	Ate	T4b	21.20	13.66	84
	214.97	A1b	Téc	21.20	2.27	10
	214.97	A1b	T4	21.20	2.30	10
•	214.97	Afa	T4e	21.20	13.12	81
	214,97	A1	T4b	21.20	2.18	10
	214.87	At	100	21.20	2.29	10
	214.97	A1b	1 98 e	21.20	2.29	10
	214.97	Ata	100b	21.20	13.30	83
	200.05	A1	15	21.20	3.32	16
	200.50	A1a	TIRE	21.20	11.65	84
	200.00	Afb	Tile	21.26	3.02	14
l	200.00	Ath	TE	21,20	3.24	15
	200,00	Ata	TSe	21.20	11.24	53
	200.00	Af	TED	21.20	2.57	13
	200.00	A1	137	21.20	3.07	14
	200.00	Alb	137a	21.28	3.12	14
	200,00	Afe	1376	21.20	11.66	54

AVIERICAN TOWER

Site Number: 10047 Location: Portland, ME Copyright Semeen Engineering Solutions, Inc.

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96 deg No lee	54.83	A1	29	16.86	5.72	33
-	84.83	A1b	28e	16.55	0.36	1
	54.83	Ata	28b	18.85	10.56	62
	119.00	A1	67	21.28	8.24	38
	119.86	A1b	57a	21.20	0.36	1
	110.00	Afa	67b	21.20	18.80	78
	166.17	A1	95	26.00	9.63	34
	165,17	A1b	He	28.00	9.79	2
	165.17	Ata	98b	26.06	18.78	78
_	214.97	A1	T4	21.20	7.73	36
	214,97	Ata	T4b	21.20	13.77	84
	214.97	A1b	T4e	21.20	1.06	4
	214.97	A1b	T4	21.20	1.10	
	214.97	Ata	T4e	21.30	13.64	84
	214,97	A1	T4b	21.30	6.84	32
	214.97	A1	180	21.20	7.20	34
	214.97	A1b	100a	21.20	1.06	
	214.97	Ata	198b	21.20	13,76	64
	200.00	A1	78	21.20	7.62	35
-	200.00	A1a	Tab	21.26	11.35	63
	200.00	A1b	Tile	21,20	1.00	7
	200.00	Afb	TB	21.30	1.78	
	200.00	Ata	Ten	21.20	11.78	86
	200.06	A1	TED	21.20	8,02	28
	200.00	A1	137	21.20	6.76	31
	200.00	Atb	137a	21.20	1.71	8
	200.80	Ate	1375	21.20	11.71	56
_						

Site Number: 10047 Location: Portland, ME

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	24.75	**		40.00		3
Monnel los	84.83	A1	29	10.06	0.60	-
	84.83	A1b	29a	10.06	8.18	48
	84.83	Ata	29b	10.05	8.18	48
	110.00	A1	67	21.20	0.20	0
	110.00	A1b	87e	21.20	12,78	80
	110.00	Aia	67b	21.20	12,77	60
	166.17	A1	85	28.00	0.86	3
	165.17	A1b	Ha	26.00	16,65	86
	166.17	Ata	\$8b	25.00	10.62	86
	214.97	A1	T4	21,26	1.06	7
	214.87	Ata	T4b	21,20	13.33	82
	214.97	A1b	T4e	21.20	13.47	63
	214.87	A1b	74	21.20	13.46	63
	214.97	Ata	T4e	21.20	13.00	64
	214.97	A1	746	21,20	1.86	7
	214.97	A1	106	21.20	1.86	7
	214.97	Atb	100a	21.20	13.46	63
	214.97	Ata	1000	21.20	13.45	63
	200.00	A1	18	21.20	2.80	11
	200.00	Ate	TOO	21,20	12.88	*
	200.00	ATE	Tão	21.20	11.96	86
	200.20	Atb	75	21.20	12.95	61
	200.50	Ala	Tie	21.20	12.07	-
	200.00	A1	750	21,20	2.51	11
	200.00	A1	157	21,20	2.40	11
	200.00	Atb	1374	21.20	12.54	
	200.00	Ate	127b	21.20	12.56	-

MYERICAN

Site Number: 10047 Location: Portland, ME Copyright Semeen Engineering Solutions, Inc. |Y 9/6/2002 4:19:11 PM

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66 deg los	84.23	A1	29	16.56	2.36	13
-	84.83	A1b	29a	16,85	2.30	13
	\$4.83	Ala	29b	16.86	9,68	57
	110.86	M	57	21.20	2.36	11
	110.00	A1b	57a	21.20	2.31	10
	116.00	Ate	87b	21.20	14.81	80
	105.17	A1	96	25.00	3.05	12
	106,17	A1b	96a	26.00	3.03	12
	105.17	Ata	16p	25.00	19.27	77
	214.87	A1	T4	21.20	3.76	17
	214.87	Ma	146	21.26	16.87	74
	214.97	A1b	T4e	21.20	3,06	17
	214.57	A1b	T4	21.30	3.00	17
	214,87	A1s	T4e	21.20	16.57	73
	214.97	A1	T4b	21.20	3.57	16
	214.87	A1	106	21.20	3,67	17
	214.97	A1b	100a	21.20	3.67	17
	214.97	A1a	1000	21.20	15,71	74
	269.86	A1	15	21.28	4.96	23
	200.00	Als	TID	21.20	14.57	96
	200.00	Ath	TSe	21,20	4.05	22
	200.00	Ath	15	21,20	4.02	23
	200.00	Ata	Tile	21.20	14.32	87
	200.00	A1	Title	21.20	4.06	21
	200.00	A1	137	21.20	4.76	22
	200.00	Alb	137n	21.26	4.80	22
	200.00	Ate	137b	21.20	14.87	- 86

Site Number: 10047

Location: Portland, ME

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				•		
90 deg ice	54.83	A1	29	16,85	5.61	32
	84.83	A1b	29e	10.35	0.78	4
	84.53	Ata	29b	16.86	9.06	57
	119.00	A1	87	21.20	8.03	37
	110.00	A1b	57a	21.20	0.73	3
	110.00	Aia	57b	21.20	15.15	71
	105.17	A1	96	25.60	10.20	40
	165.17	Afb	86 a	25.00	1.27	8
	165.17	Ata	86b	26.06	19.01	78
	214.97	A1	T4	21.20	6.00	41
	214.87	Ate	T4b	21.20	15.00	76
	214.97	A1b	T4a	21,20	1.91	•
	214.97	A1b	T4	21.20	1.95	•
	214.87	Ata	T4e	21.20	15.60	73
	214.57	A1	T4b	21.20	2.26	40
	214.97	A1	100	21,20	8.73	41
	214.97	A1b	1000	21.20	1.94	•
	214.97	Ata	169b	21.20	15.74	74
	200.00	Af	18	21.26	9.30	43
	200.00	Ata	786	21.20	14.16	96
	200.00	A1b	Tite	21.20	2.91	13
	200.00	A1b	18	21.20	2.00	14
	200.00	Ata	TSe	21.20	14.46	•
	200.00	A1	1780	21.20	8.21	30
	200.20	A1	137	21,30	8.78	41
	200.00	A1b	137a	21.28	2.83	13
	200.00	Ala	137b	21.20	14.43	86

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Site Number: 19947 Location: Portland, ME Copyright Semeen Engineering Solutions, Inc.

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Hormei	84.85	A1	26	16.85	0.06	
	54,83	Atb	25e	16.35	4.47	26
	84.83	Ata	29b	18.85	4.47	25
	110,06	A1	57	21.26	0.63	2
	110.00	A1b	67a	21.26	6.71	26
	110.00	Afa	87b	21.20	5.71	26
	166.17	M	45	25.00	9.43	1
	105.17	A1b	95e	26.00	6.31	25
	106.17	Ata	96b	25,00	6.30	25
	214.97	A1	T4	21.20	0.54	2
	214.97	Ata	T4b	21.26	4.90	23
	214.97	A1b	T4a	21.20	4.78	22
	214.87	Afb	T4	21.20	8.06	23
	214.97	Ata	T4e	21.20	4,82	22
	214.97	A1	T4b	21,30	9.86	2
	214.97	A1	100	21.20	0.81	2
	214.57	A1b	100a	21.30	4.93	23
	214,97	Ata	190b	21.26	4.93	23
	200,00	At	78	21.20	1.44	
	200.00	Ata	Tab	21.26	4.80	23
	200.00	A1b	Tile	21.25	4.46	21
	200.00	Alb	78	21.26	4.91	23
	200.00	Ata	76e	21.26	4.82	21
	200,00	A1	TED	21.20	1.46	•
	200,50	Af	137	21.20	1.41	•
	200.00	Afb	137a	21.20	4.74	22
	200.00	Afa	1376	21.20	4.74	22

Location: Portland, ME

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84.83	A1	29	10.05	2.05	12
64.83	Afb	29a	18.86	2.04	12
•	A1a	200	10.06	6.35	31
64.83	A1	57	21.30	1,90	1
110.00		57s	21.20	1.86	
110.00	ATD	57b	21.20	7.19	33
110.00	Afa		26.00	2.14	8
100.17	A1	86	25.00	2.14	Ā
165.17	Alb	80 a	26.00	6.23	23
165.17	Ata	8 6 5		1.25	10
214.97	A1	T4	21.20	6.63	30
214.87	A1m	T4b	21.20		10
214.57	A1b	74e	21.20	214	
214,87	A1b	T4	21,20	2.20	10
214.97	Ata	T4e	21,20	6.40	30
214.87	A1	T4b	21.20	2.00	•
214.97	A1	100	21.20	2.17	10
214.57	A1b	100a	21.20	2.17	10
214.97	Ata	100b	21.20	8.40	30
200.00	A1	T8	21.20	2.84	13
200.50	Ate	TOO	21.20	5.00	24
200,30	Alb	Tite	21.30	2,63	11
200.50	A1b	TE	21.30	2.77	13
200.00	Ata	Tile	21.20	5.87	27
200.20	A1	TED	21.30	2.44	11
200.00	A1	137	21.20	2.03	12
200.00	A1b	137a	21.28	2.06	12
	Ate	1375	21.20	6.00	28
200.50	~15	147 15			

MERICAN

Site Number: 19847 Location: Portland, ME Copyright Semeen Engineering Solutions, Inc.
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<u> </u>						
Deb deg	54.83	A1	29	16.86	3.27	19
	54.83	A1b	29e	18.86	1.20	7
i	54.83	Afa	28b	16.86	5.16	30
į	118.00	A1	57	21.26	3.86	18
•	110.00	A1b	57 a	21,26	9.84	3
_	110,00	A1a	87b	21.20	6.80	32
Ě	166.17	A1	96	26.00	4.20	17
I	165,17	Afb	36 e	25.00	6.05	3
•	166.17	Ata	86b	25.00	7.87	31
•	214.97	At	T4	21.20	3,76	17
i	214.97	Ma	T4b	21.20	6,11	28
j	214.97	Aib	740	21.39	1.07	
-	214.97	Afb	T4	21,20	1.12	
•	214.97	Afa	T4e	21.26	6.01	28
į	214.97	A1	T4b	21.28	3.36	16
ļ	214.87	A1	100	21.20	3,01	17
	214.97	A1b	100a	21.20	1.05	•
<u> </u>	214.97	Ata	100b	21.20	8.10	28
i	200.00	A1	TE	21.28	3.98	16
I	200.00	Ata	TSb	21.36	1.05	26
	200.00	A1b	Tüe	21.20	1.75	
ı	200,00	A1b	TB	21.20	1.83	8
l	200.00	Ata	Title	21.29	5.64	26
,	200.00	A1	TSb	21.20	3.30	16
	200.00	A1	137	21.20	3.70	17
1	200.00	A1b	137a	21.20	1.78	
	200.00	Ate	137b	21.20	5.05	28



Mie Number: 18647 Location: Portland, Mili Copyright Sement Engineering Solutions, Inc.
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Site Number: 18647 Location: Portland, ME Copyright Semean Engineering Solutions, Inc

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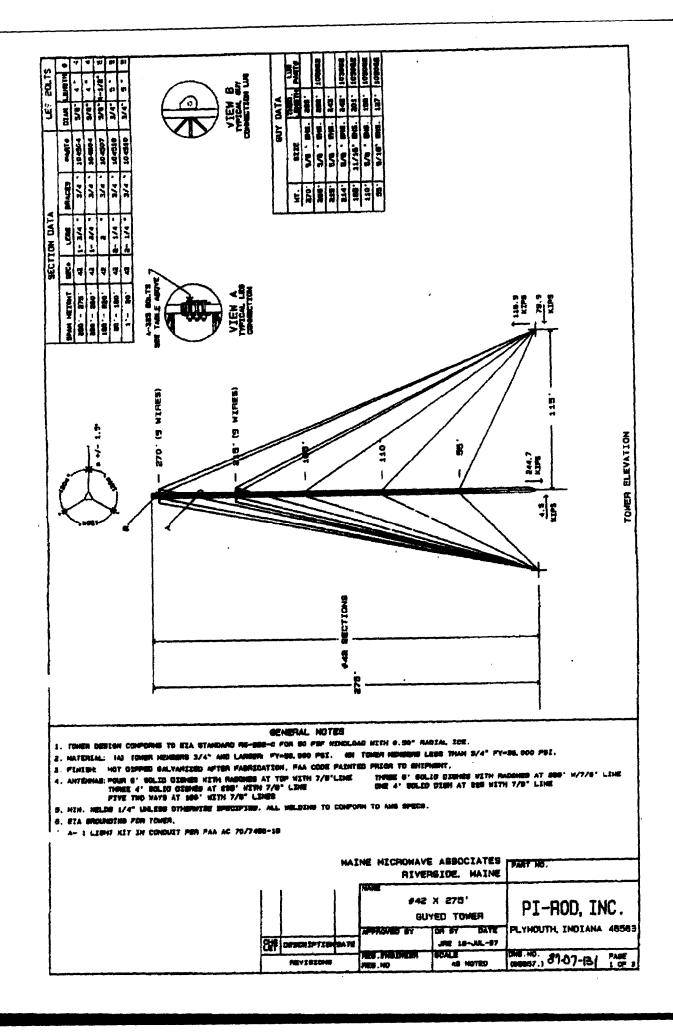
Deflections and Rotations

-				_	
	Elevation	Deflection	Twist	Swey (deat)	
Load Care	(70)	(in)	(deg)	(deg)	
56.00 mph Wind Normal To Page with No ice	100.00	0.1636	-0.0003	e.0706	
- -	126.17	0,1 96 1	-0.0002	0.1221	
	154.83	0.2346	0.0000	9.0523	
	167.58	0.2451	0.0001	0.0632	
	192.42	0.2048	0.0000	0.0362	
	214.87	6.2716	0.0001	0.0364	
	220.00	0.2767	0.0001	0.1571	
	229.91	0.2000	0.0000	0.6700	
	240.33	0.2967	0.0000	0.1436	
	200.00	0.2907	0,0000	0.0064	
	266.11	0.2925	8,0008	0.0005	
	200.00	0.2000	0.0000	0.9626	
to do	100.00	0.1207	0.0000	0.0456	
10.00 mph Wind at 90 deg From Puse with Ne les	128.17	0.1001	0.9463	6.0072	
	184.83	8.2136	0.6324	0.0700	
	167.86	0.2200	0.0336	0.0006	
	192.42	0.2019	0.0203	0.0064	
		0.2833	0.0301	0.0770	
	214.97 220.00		9.9190	0.1706	
		0.2019			
	229.91	8.3063	0.9160	0.1001	
	246.33	0.3200	0.0117	0.1918	
	200,00	0.2204	0.0104	0.0003	
	265.11	0.3364	0.0007	0.0514	
	200.00	0.3320	0.0000	0.0640	
8.00 mph Wind at 90 dag From Pace with No ice	100.00	0.1466	0.0003	9.0002	
	136,17	0.1887	8.0065	0.0005	
	184.83	8.2300	0.9403	9.9672	
	197,38	8,3462	0.0403	6.0785	
	192,42	0,2781	0.0306	9.0015	
	214.97	0,2931	0.0316	6.0621	
	220.00	0.3003	6.6306	0.1865	
	229.91	0.3003	0.0250	0.0003	
	240,23	0.3320	0.0202	9.1732	
	200.00	0.3348	0.0182	0.0003	
	206.11	8.2294	0.0188	0.6734	
	206.00	0.2283	0.0173	0.0704	
9.26 mah Wind Hermal To Page with Ice	100.00	9,8001	-0.0213	0.4874	
	126.17	0.0036	-0.0190	9.7279	
	154.83	1.2000	-8.8184	9.6478	
	167.86	1.3006	-8,8146	0.0048	
	192.42	1,8968	-0.0122	9.8413	
	214.97	1.0000	4.0006	0.0008	
	220.06	1.9347	-4.0000	0.8667	
	229.91	2.0414	-0.0003	0.0020	
	240.23	2.1643	-0.0073	0,8348	
	200.00	2.3023	-0.0064	0.1700	
	205.11	2.3192	-0.0000	0.1786	
	200.00	2.3300	-0.0054	0.1701	

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AMERICAN	Site Number:	10047		Y 9/8/2002 4:19:12 PM
TOVER	Location:	Portland, ME		
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60.28 mph Wind at 60 dag From Face with ice	100.00	0.3007	0.3701	0.2044
	126.17	0.0101	0.4675	0.9663
	154.83	0.7103	0.3006	0.3880
5	167.66 182.42	0.799 1 0.9676	0,4 246 0,42 85	0.4266 0.2003
	214.97	1,1006	0.4273	0.4191
	220.08	1,1900	0.4276	0.9004
	229.91	1,2271	4.4267	0.4628
	246.33	1.3279	0.3046	0.7266
	200.00	1,4344	0,4266	0.0700
	265.11	1,4326	0.3842	0.0470
	200.29	1,4364	0.4 2 67 0.1 87 2	0.0624 0.3861
60.38 mph Wind at 86 dag From Face with lee	100.06 126.17	9. 6300 9. 767 7	0.1672	8.8316
	184.83	1,0633	0.1306	0.5405
	167.88	1.1837	0.1573	0.8641
	192.42	1.4365	0.1546	9.5278
	214.97	1,6216	0.1837	0.5178
	220.00	1.6726	0.1530	0.7802
	226.91	1.7622	0.1630	0,6764
	246.33 260.00	1,6766	0.127 0 0.1 525	6.787 0 0.1280
	205.17	1 .9938 2.0071	9.1275	0,1180
	200.00	2,9183	9.1526	0,1101
60.06 mah Wind Hormal To Page with No les	100.00	0.7206	-0.0020	6.4306
	136.17	9.9029	-0.8327	0,6216
_	164.83	1,2218	-0.0400	0,4673
	167.88	1,3236	-4.0333	0.4000
	192.42	1.6203	-0.8925	0.4206 0.5066
_	214.97 228.00	1.0007 1.0004	-6.0322 -6.0323	0.6369
	229.91	1,7783	-8.8317	0.4424
	340,33	1,8015	-0.6302	0.000
	200.00	1,9293	-4.0300	9.6380
	206.11	1.8311	-0.0379	0.0006
	200.00	1,8333	-0.6316	9.9126
88.86 mph Wind at 65 day From Face with No ice	100.00	6.3635	0.4195	0.1742
	126.17 164.83	9.8367 9.8736	0,4464 8,4210	6.3126 0.2628
	167.88	0.7260	6.4606	0.3000
	182.42	9.8484	0.4622	0.2444
	214.97	6.0003	6.4010	6.2700
	230.00	0.0007	0,4011	0.6300
	229.91	1.0000	0,4603	0.3366
	240.33	1.0016	0.4226	0.5716
	200.00	1.1296	0.4 00 2	6.0000
-	.204.11 200.00	1.1 25 5 1.1186	0.4 218 0.4 60 1	0.0796 0.0046
E 80.00 mph Wind at 80 day From Pace with No los	100.00	0.6348	9.2146	0.3467
Total of the state	126.17	0.5363	0.1004	8.4426
	164,83	1.0676	0.1016	0.3696
	167.68	1.1613	0.1900	6.4006
	182.42	1.3186	0.1877	0.3336
3	214.97	1,4343	0.1800	6.3308
	228.00	1,4004	0.1206	0.5566



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Site Number:	10047		Y 9/9/2002 4:19:12 PM
Lesation:	Portland, ME		
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229.81	1.5267	0.1863	0.3866
240.33	1,0070	0.1635	0.6610
200.00	1.0044	6.1865	0,0000
266.11	1.0042	9.1636	0.0406
200.00	1,8008	0.1867	0.0638
	6 6666	0.0000	0.0006



APPLICATION FOR EXEMPTION FROM SITE PLAN REVIEW

Applicant Applicant's Mailing Address Applicant's Mailing Address Consultant/Agent/Phone Number Description of Proposed Development: Applicant Applicant Applicant Application Date Applicant's Mailing Address Project Name/Description Address of Proposed Site CELL 380 Hoo 5 003					
Please Attach Sketch/Plan of Proposal/Development	Applicant's Assessment (Yes, No, N/A)	Planning Office Use Only			
Criteria for Exemptions:					
See Section 14-523 (4)					
a) Within Existing Structures; No New Buildings, Demolitions or Additions					
b) Footprint Increase Less Than 500 Sq. Ft.	No				
c) No New Curb Cuts, Driveways, Parking Areas	_ NO				
d) Curbs and Sidewalks in Sound Condition/ Comply with ADA	No				
e) No Additional Parking / No Traffic Increase	No				
f) No Stormwater Problems	N2				
g) Sufficient Property Screening	yes				
h) Adequate Utilities	Yes				

Partial Exemption _____ Exemption Denied

Planning Office Use Only:

Exemption Granted ____



CITY OF PORTLAND, MAINE

Department of Building Inspections

5/2 20 03
Received from ASSOS.
Location of Work 200 Research Trad Pkeory.
Cost of Construction \$ 4000.00
61.00
Permit Fee \$
Building (IL) Plumbing (I5) Electrical (I2) Site Plan (U2)
Other
CBL: 330 H 005 003
Check #: 2727 Total Collected \$ 51.00

THIS IS NOT A PERMIT

No work is to be started until PERMIT CARD is actually posted upon the premises. Acceptance of fee is no guarantee that permit will be granted. PRESERVE THIS RECEIPT. In case permit cannot be granted the amount of the fee will be refunded upon return of the receipt less \$10.00 or 10% whichever is greater.

WHITE - Applicant's Copy YELLOW - Office Copy PINK - Permit Copy