STATE OF CONNECTICUT CONNECTICUT SITING COUNCIL

IN RE:	:	
A PETITION OF PHOENIX TOWERS II : FOR A DECLARATORY RULING FOR : APPROVAL OF AN ELIGIBLE FACILITY REQUEST FOR MODIFICATIONS TO AN EXISTING TELECOMMUNICATIONS TOWER AT 158 EDISON ROAD, TRUMBULL	:	SUB-PETITION NO. 1133 158 EDISON ROAD TRUMBULL, CONNECTICUT
CONNECTICUT	•	JUNE 30, 2016

I. Introduction

Pursuant to Section 6409(a) of the Middle Class Tax Relief and Job Creation Act of 2012, codified at 47 U.S.C. §1455(a) ("Section 6409(a)") and the October 21, 2014 Report and Order (FCC-14-533) issued by the Federal Communications Commission ("FCC") (the "FCC Order"), Phoenix Towers II ("Phoenix") hereby petitions the Connecticut Siting Council ("Council") for a declaratory ruling that the proposed modifications to the existing tower at 158 Edison Road Trumbull Connecticut ("Property") constitutes an Eligible Facilities Request ("EFR") under the FCC Order.

II. Background

The tower is a 130 foot monopole ("Facility") located on the westerly portion of a 2.296 acre parcel of property on which the Trumbull Police Department is located. An Aerial Map is attached hereto as <u>Exhibit A</u>. The Facility was approved by the Council in Docket 421 and a Certificate issued to T-Mobile Northeast, LLC, the applicant. The Certificate was subsequently transferred to Phoenix Partnership on May 29, 2014 and then transferred to the current Certificate holder, Phoenix, on February 4, 2016. The Decision and Order provides that the tower should be capable of supporting the equipment constructed as a monopole, sufficient to

accommodate the equipment of T-Mobile , and other entities, public and private, but should not exceed 130 feet. The Decision and Order also provides that the tower shall be constructed to be extendable. T-Mobile and the Town are the two entities that are currently approved to co-locate on the tower.

III. Proposed Facility Modifications

Phoenix proposes to extend the tower by 13 feet, which would allow the Town's emergency services antennas to move up to a height of 143 feet. No modifications are proposed to the equipment compound layout approved in the Development and Management Plan. Plans depicting the Facility Modification are attached hereto as <u>Exhibit B</u>. A Structural Analysis Report dated June 27, 2016 confirming the Facility's integrity at 143 feet is attached hereto as <u>Exhibit C</u>.

IV. Eligible Facilities Request

A. <u>The Proposed Modifications Will Not Cause a Substantial Change to the Physical</u> <u>Dimensions of the Existing Tower or Base Station</u>

Section 6409(a) provides, in relevant part, that "a State or local government may not deny, and shall approve, any eligible facilities request for a modification of an existing wireless tower or base station that does not substantially change the physical dimensions of such tower or base station." In accordance with the FCC Order, the proposed modification does not substantially change the physical dimensions of the tower or base station if the following criteria are satisfied: 1. The proposed modified facility will not increase the height of the tower by more than (ten) percent or by the height of one additional array with separation from the nearest existing antenna not to exceed twenty (20) feet, whichever is greater.

The existing tower is a 130 foot monopole with antenna arrays approved for location at the 120 (T-Mobile) and 130 foot (Town) levels. Phoenix proposes to extend the tower by 13 feet. The antenna arrays would then be located at the 120 foot and 143 foot levels.

- The proposed facility will not protrude from the edge of the structure more than six (6) feet. The tower extension is only proposed to increase vertically, not horizontally.
- 3. The proposed facility does not involve the installation of more than the standard number of new equipment cabinets for the technology involved, but not to exceed four cabinets.

No additional cabinets are proposed.

4. The proposed facility does not entail any excavation or deployment outside the current site of the base station.

No excavation or deployment outside the current site is proposed.

5. The proposed facility does not defeat the existing concealment elements of the base station.

The monopole extension will match the existing monopole design, which does not implicate any concealment elements.

6. The proposed facility complies with the conditions associated with the prior approvals of construction or modification of the base station.
Phoenix is not aware of any restriction or condition placed on the Facility that would limit or prohibit the proposed Facility Modifications. In fact, this extension is consistent with the Council's mandate that this Facility be constructed to be extendable.

B. FCC Compliance

The Facility Modification proposed by Phoenix will not increase the total radio frequency (RF) power density, measured at the base of the tower, to a level at or above the applicable standard. According to a Radio Frequency Emissions Analysis Report prepared by CSquared Systems dated June 10, 2016, the calculated "worst case" power density for the planned combined operation at the site including all of the proposed antennas would be 14.62% of the FCC Standard as calculated for a mixed frequency site as evidenced by the engineering exhibit attached hereto as Exhibit D.

C. <u>Notice</u>

On June 30, 2016 a copy of this Sub-Petition was sent to the Trumbull's First Selectman Timothy Herbst. A copy of that letter is attached hereto as <u>Exhibit E</u>. The Town is also the property owner.

A copy of this Sub-Petition was also sent to each owner of land that abuts the Property on June 28, 2016. A list of the abutting property owners and a sample notice letter are attached hereto as <u>Exhibit F</u>.

V. Conclusion

Phoenix respectfully submits, that based upon the information provided above and the materials attached, the proposed Facility Modification constitutes an "eligible facilities request" under Section 6409(a) and the FCC Order.

Respectfully Submitted,

EL:

Keith Coppins

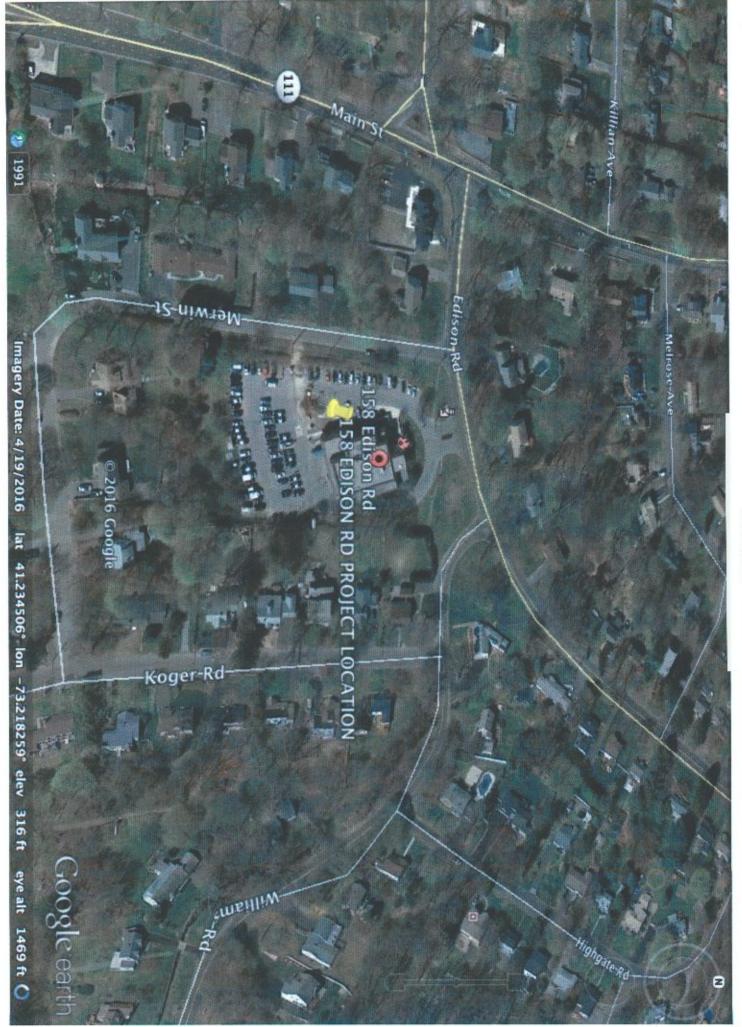
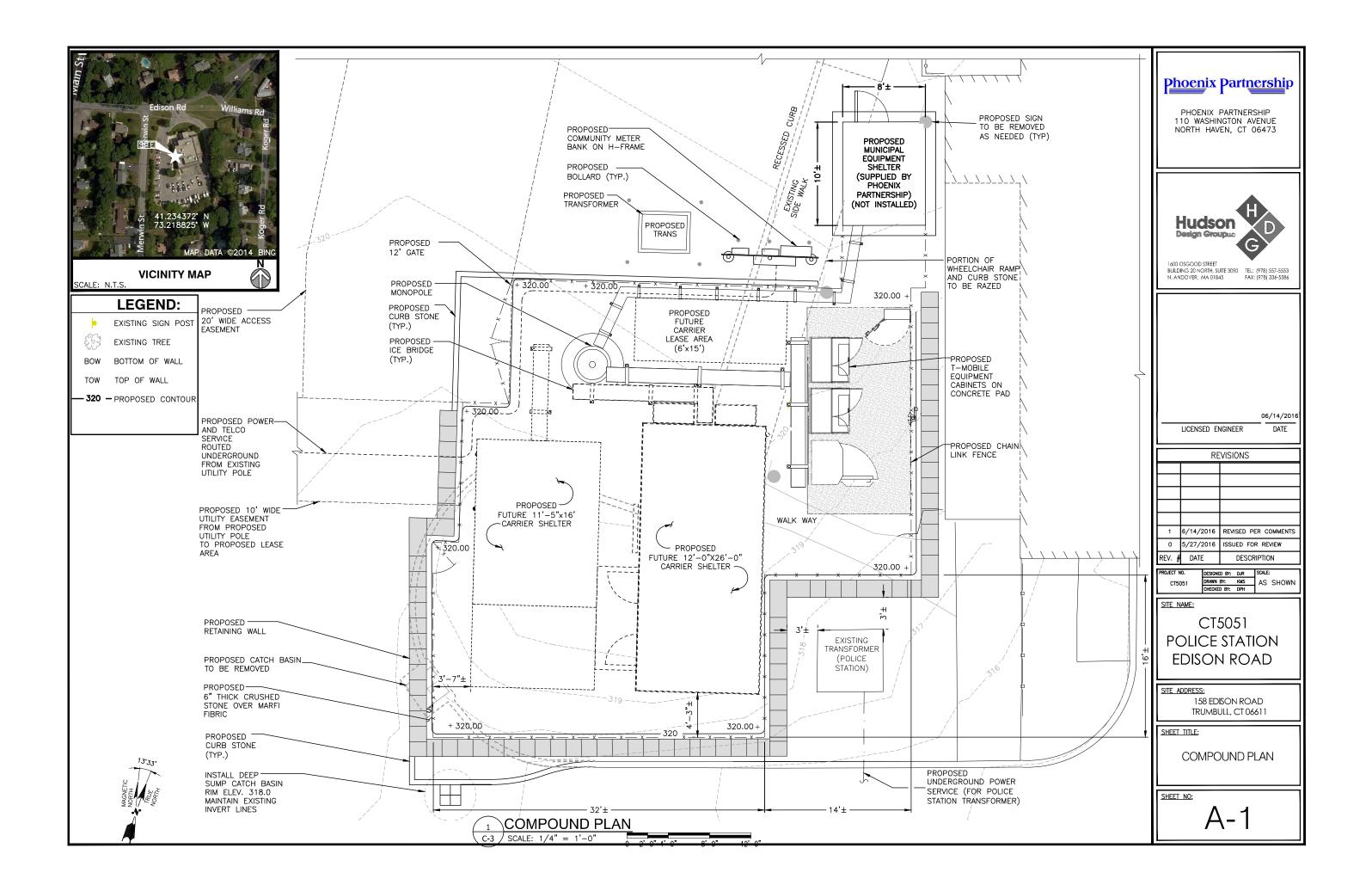
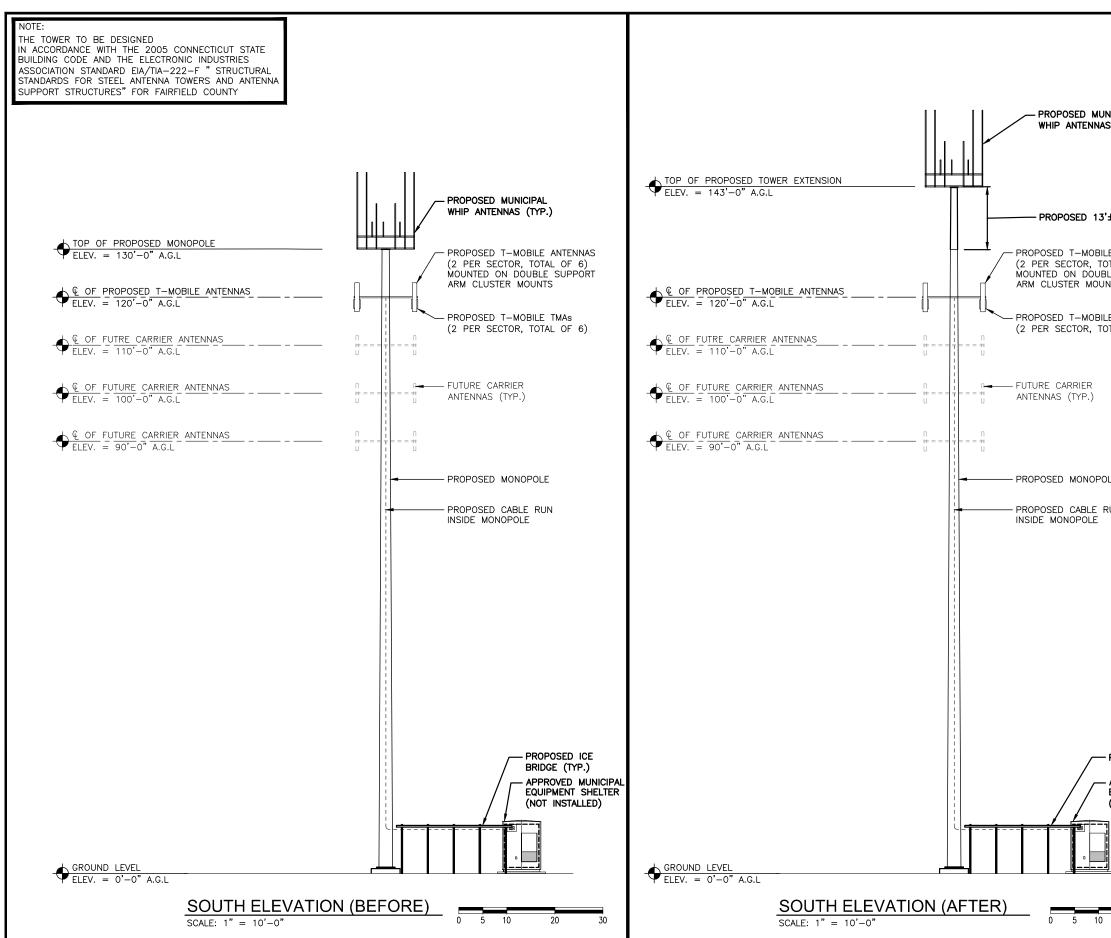


EXHIBIT A





NICIPAL S (TYP.)	PHOENIX PARTNERSHIP 110 WASHINGTON AVENUE NORTH HAVEN, CT 06473
± TOWER EXTENSION E ANTENNAS ITAL OF 6) LE SUPPORT NTS	Hucison beign Groupuc 1460 OSGOOD STREET BUILDING 20 NORTH, SUITE 3070 N. ANDOVER, MA 01845 TEL: (978) 557-5553 FAX: (978) 336-5586
E TMAs MAL OF 6)	06/14/2016 LICENSED ENGINEER DATE
LE	REVISIONS
RUN	1 6/14/2016 REVISED PER COMMENTS 0 5/27/2016 ISSUED FOR REVIEW REV. DATE DESCRIPTION PROJECT NO. DESCRIPTION SOLE: CT5051 DRAWN BY: KAG SITE <name:< td=""> CT5051 POLICE STATION</name:<>
	EDISON ROAD
PROPOSED ICE BRIDGE (TYP.) APPROVED MUNICIPAL EQUIPMENT SHELTER (NOT INSTALLED)	SITE_ADDRESS: 158 EDISON ROAD TRUMBULL, CT 06611 SHEET_TITLE:
	ELEVATIONS
20 30	SHEET_NO: A-2



STRUCTURES

VALMONT MICROFLECT 3575 25th St. SE Salem, OR 97302 PHONE: 1-800-547-2151 ENGINEER: Nathan Ross Reviewed by:

COMMUNICATION POLE DESIGN CALCULATIONS

JUN 2 9 2016



PHOENIX PARTNERSHIP VALMONT ORDER# 291087 SITE NAME: TRUMBULL - EDISON ROAD, CT POLE HEIGHT: 142FT (130 FT EXT TO 143 FT AGL)

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6/29/16 ENGINEERING DATA for PHOENIX PARTNERSHIP TRUMBULL - EDISON ROAD, CT VALMONT QUOTATION 291087

- 1) STRUCTURE DESIGN CONFORMS TO EIA/TIA-222-G INCLUDING: 100.0 MPH WIND (3 SECOND GUST, 50 YR. RETURN PERIOD) 50.0 MPH ICE WIND (50 YR. RETURN PERIOD) DESIGN ICE THICKNESS = 0.75 INCHES EXPOSURE CATEGORY C STRUCTURE CLASSIFICATION III TOPOGRAPHIC CATEGORY 1
- 60.0 MPH BASIC WIND SPEED WITH NO ICE FOR TWIST AND SWAY
- 2) FEEDLINES ARE ASSUMED TO BE PLACED INTERIOR TO THE POLE.
- ALL MICROWAVE ASSUMED TO BE 6 GHz UNLESS OTHERWISE NOTED.
- 4) TOTAL POLE HEIGHT IS 130 FT AGL
- 5) 13 FT EXTENSION TO 143 FT AGL
- 6) ELEVATIONS ARE MEASURED FROM TOP OF BASE PLATE (APPROX 1 FT AGL)
- 7) LOADING AS FOLLOWS:

142.0' POLE

- 12 2-3/8" X 12'-6" MOUNTING PIPES @ 142.0
- 3 WORK PLATFORM @ 142.0
- 1 EXTENSION CARRIER 2 @ 139.0
- 1 4ft lightning rod @ 142.0
- 2 DB809KE-XT @ 142.0
- 3 1142-2AN @ 142.0
- 1 1142-2AN @ 142.0
- 2 872F-70TM @ 142.0
- 1 ANT790F2 @ 142.0
- 1 DS1F06F36U-D @ 142.0
- 1 2' HIGH PERFORMANCE (5 GHz) @ 142.0
- 3 T-arm SP1 3' S/O 12' C/A @ 142.0
- 6 LNX-6515DS-VTM (w/PM) @ 129.0
- 3 T-arm SP1 3' S/O 12' C/A @ 129.0
- 12 LNX-6515DS-VTM (w/PM) @ 119.0
- 3 T-arm SP1 3' S/O 12' C/A @ 119.0
- 15 LNX-6515DS-VTM (w/PM) @ 109.0
- 3 T-arm SP1 3' S/O 14' C/A @ 109.0
- 12 LNX-6515DS-VTM (w/PM) @ 89.0
- 3 T-arm SP1 3' S/O 12' C/A @ 89.0

STRUCTURE ANCHORAGE INFORMATION

142	NUMBER OF A.B.'s:	20
66.92	DIA. OF A.B.'s(IN):	2.25
47.38	LENGTH OF A.B.'s(IN);	72.00
57.67	PROJECTION LENGTH(IN):	12.25
6114	TEMPLATE OD(IN):	70.42
	66.92 47.38 57.67	66.92 DIA. OF A.B.'s(IN): 47.38 LENGTH OF A.B.'s(IN): 57.67 PROJECTION LENGTH(IN):



ВҮ_____ DATE _____ СНКD. ВҮ_____ DATE _____

SHEET NO. _____

STRUCTURES

6/29/16 ENGINEERING DATA for PHOENIX PARTNERSHIP TRUMBULL - EDISON ROAD, CT VALMONT QUOTATION 291087

EIA/TIA-222-G

BASIC WIN WIND & ICE TWIST & S\ S _S :	D: 100.0 MPH E: 50.0 MPH	₩ HA-222-G	:	0.75 IN. C III 1		
S ₁ :	N/A					
QT	Y DESCRIPTION	HEIGHT	DATA W.O EPA	. ICE WT	DATA W EPA	// ICE WT
12	2-3/8" X 12'-6" MOUNTING PIPES	@ 142.0 '	15.00	576	30.00	1152
3	WORK PLATFORM	@ 142.0 '	22.50	300	45.00	600
1	EXTENSION CARRIER 2	@ 139.0 '	109.89	1567	146.76	7392
1	4ft lightning rod	@ 142.0 '	0.25	10	1.99	59
2	DB809KE-XT	@ 142.0 '	7.36	54	16.36	404
3	1142-2AN	@ 142.0 '	7.98	30	28.92	537
1	1142-2AN	@ 142.0 '	2.66	10	9.64	179
2	872F-70TM	@ 142.0 '	5.22	42	19.62	170
1	ANT790F2	@ 142.0 '	0.69	8	1.43	54
1	DS1F06F36U-D	@ 142.0 '	6.25	61	15.36	356
1	2' HIGH PERFORMANCE	@ 142.0 '	3.96	40	5.53	104
3	T-arm SP1 3' S/O 12' C/A	@ 142.0 '	11.07	618	19.14	1497
6	LNX-6515DS-VTM (w/PM)	@ 129.0 '	50.52	474	65.88	2982
3	T-arm SP1 3' S/O 12' C/A	@ 129.0 '	8.85	618	15.27	1485
12	LNX-6515DS-VTM (w/PM)	@ 119.0 '	101.04	948	131.52	5916
3	T-arm SP1 3' S/O 12' C/A	@ 119.0 '	8.85	618	15.24	1476
15	LNX-6515DS-VTM (w/PM)	@ 109.0 '	126.30	1185	164.10	7335
3	T-arm SP1 3' S/O 14' C/A	@ 109.0 '	18.18	666	33.06	1605
12	LNX-6515DS-VTM (w/PM)	@ 89.0 '	101.04	948	130.68	5736
3	T-arm SP1 3' S/O 12' C/A	@ 89.0 '	8.85	618	15.09	1434

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Valmont - Structures Engineering

	Fuse 1.13.0.0	1									
EDISON ROA		26662							1	Pole Top	WIND 142.00 191 5796 1449 82.13 0.02 109.35
SITE: TRUMBULL - E		Weight (lbs)		18 Sides						Governing Level Sec.4	WIND 129.00 2103 14685 3645 79.46 0.19 91.75
	, , , , , , , , , , , , , , , , , , ,	Pole Shaft		Shape:			/Fourth/	28.950 25.733 0.25000 13.000 951 65.00		Governing Level Sec.3	WIND 85.00 19374 47594 15310 77.04 0.74 39.74
PHOENIX PARTNERSHIP 130' EXT TO 143' POLE,	SUMMARY *** SUMMARY	(in) 59.500	25.733	0.24748	/Third/	129.00 Flange Joint 0 16994	/Third/	41.283 28.950 0.31250 49.833 5854 65.00	Д	Governing Level Sec.2	WIND 45.00 43477 52766 52766 76.31 0.92 10.66
INIX PARTNERSHI	*** DESIGN	Line Diameter (ameter (in)	aper (in/ft)	/Second/	85.00 Slip Joint 70 60471	/Second/	50.825 39.214 0.37500 46.917 46.917 68483 65.00	ANALYSIS SUMMARY	Governing Level Sec.1	WIND 0.00 73372 57707 44307 75.27 75.27 0.92 0.92
		Ground	Top Diam	Pole Tap	/First/	45.00 Slip Joint 83 74868	/First/	59.500 48.363 0.43750 45.000 11374 65.00	Al	Pt. of Fixity	WIND 0.00 73372 57707 44307 75.27 75.27 0.92 0.00
BY VALMONT INDUSTRIES FOR:	Design Code: TIA-222-G Addendum 2	Height Above Base Plate (ft) 142.00			Connections Between Sections	Height Above Ground (ft) Type Overlap Length (in) Maximum Axial Force (lbs)	Section Characteristics	Base Diameter (in) Top Diameter (in) Thickness (in) Length (ft) Weight (lbs) Yield Strength (ksi)			Governing Load Case Height (ft) Resultant Moment (in-kips) Shear Force (lbs) Axial Force (lbs) Effective Yield Strength (ksi) Combined Interaction Value Total Deflection (in)

Note: Diameters are outside, measured across the flats Forces and moments are reported in the local element coordinate system

DATE 06/29/2016	Fuse 1.13.0.0									
EDISON ROA		26662								
PHOENIX PARTNERSHIP 130' EXT TO 143' POLE, SITE: TRUMBULL - EDISON ROA	QI	Pole Shaft Weight (lbs)		be: 18 Sides			/Fourth/	28.950 25.733 0.25000 13.000	/Fourth/	28.904 25.733 0.25000 12.813
EXT TO 143' PC	SUMMARY OF SECTION DIMENSIONS AS DETAILED	59.500 Pole	25.733	0.24748 Shape:	/Third/	129.00 Flange Joint 2.000 0.250	/Third/	41.283 28.950 0.31250 49.833	/Third/	41.283 28.997 0.31250 49.646
INERSHIP 130'	SCTION DIMENSI	Line Diameter (in)	1)	[t)	/Second/ /Th		/Second/	50.825 39.214 0.37500 46.917	/Second/	50.825 39.214 0.37500 46.917
PHOENIX PAR		Ground Line Diar	Top Diameter (in)	Pole Taper (in/ft)	/First/ /Sec	45.00 85.00 Slip Joint Slip Joint	/First/	59.500 48.363 0.43750 45.000	/First/	59.500 48.363 0.43750 45.000
BY VALMONT INDUSTRIES FOR:		Height Above Base Plate (ft) 142.00 (Ι	Connections Between Sections /Fi	Height Above Ground (ft) Type Flange Thickness (in) Weld Root Gap (in)	Theoretical Design Section Dimension	Base Diameter (in) Top Diameter (in) Thickness (in) Length (ft)	As Detailed Section Characteristic	Base Diameter (in) Top Diameter (in) Thickness (in) Length (ft)

Note: Diameter are outside, measured across the flats

DATE 06/29/2016	Fuse 1.13.0.0	Notes		۵ w न
JISON ROA		Shear	Kesultant (X & Y) (lbs)	57669 12966 10111
PHOENIX PARTNERSHIP 130' EXT TO 143' POLE, SITE: TRUMBULL - EDISON ROA		Shear	1 Y-Direction (1bs)	44177 9933 7745
' POLE, SITE:	EACTIONS ***	Shear	X-Direction Y- (lbs)	37069 8335 6499
' EXT TO 143	OF FIXITY R	Vertical	Force (lbs)	44355 96209 36086
ARTNERSHIP 130	*** POLE SHAFT POINT OF FIXITY REACTIONS ***	Moments	Torsional (in-kips)	000
PHOENIX PI	IOd ***	Moments Resultant	(X & Y) (in-kips)	73372 17099 12827
FOR:		Moments About	Y-Axis (in-kips)	-47162 -10991 -8245
BY VALMONT INDUSTRIES		Moments About	X-Axis (in-kips)	56206 13099 9826
BY VALM		Loading Case	Identifier	WIND ICE + WIND T+S

Note: Positive vertical force is downward. Reactions are considered in the global coordinate system.

DATE 06/29/2016 Fuse 1.13.0.0		of System ***** +X-Axis (Transverse)	(Vertical) +Z-Axis		12-2-3/8" X 12	3-WORK PLATFO	1-EXTENSION C	1-4ft lightni	2-DB809KE-XT	3-1142-2AN	1-1142-2AN	2-872F-70TM	1-ANT790F2	1-DS1F06F36U-	1-2' HIGH PER	3-T-arm SP1 3	e - I'NX - 6515DS -	3-T-arm SP1 3	12-LNX-6515DS-	3-T-arm SP1 3	15-LNX-6515DS-
- EDISON ROA		tion * * * * * *	* * *	БРА (ft^2)	15.00	22.50	109.89	0.25	7.36	7.98	2.66	5.22	0.69	6.25	3.96	11.07	50.52	8.85	101.04	8.85	126.30
SITE: TRUMBULL		0	(Longitudinal) +Y-Axis	Force-Z (lbs)	691	360	1880	12	65	36	12	50	10	73	48	742	569	742	1138	742	1422
143' POLE,			ft	Force-Y (lbs)	772	1158	5629	13	382	415	138	271	36	327	204	570	2548	446	5011	439	6150
NERSHIP 130' EXT TO *** INPUT LOADS ***		s 0.00 +X Axis	t Height 0.00 Axis ain = 1.00 ft	Force-X (1bs)	648	179	4724	11	321	348	116	227	30	274	171	478	2138	375	4204	368	5160
PHOENIX PARTNERSHIP *** INPI		mph Ice Thickness ses Clockwise From +X is 1.200	: Category 1, Crest He se From +X Axis Clockwise From +X Ax es es surrounding terrain	Orientation in XY Plane (Degrees)	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00
FOR:	TIA-222-G Addendum 2 WIND	ity is 100.00 mp is 50.0 Degrees Overload Factor is Factor 1.10	Copostaphic Copostaphic Ted Clockwis Degrees 0.00 Degree base above	Load Eccentricity (ft)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	00.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
JUSTRIES	TIA-222. WIND	wind Velocity : Orientation is ture Weight Oven ure C, Gust Fac	Category 3, 7 Category 3, 7 ons are Measury Y Axis is 90 n Rotation of of structure	Load Height (ft)	142.00	142.00	139.00	144.00	148.25	150.00	150.00	148.00	144.00	153.00	142.00	142.00	129.00	129.00	119.00	00.011	109.00
BY VALMONT INDUSTRIES	Design Code Loading Case	Basic Wind Velocity Wind Orientation is Structure Weight Ove Exposure C, Gust Pre	Structure Category 3, 7 Orientations are Measur Positive Y Axis is 90 Foundation Rotation of Elevation of structure	Mounting Height (ft)	142.00	142.00	139.00	142.00	142.00	142.00	142.00	142.00	142.00	142.00	142.00	142.00	129.00	129.00	119.00	119.00	109.00
ВΥ	Des Loa			Load Number	н	ы	m	4	ы	9	7	8	ი	10	11	12	13	14	15	16	17

DATE 06/29/2016	Fuse 1.13.0.0		System 16_1 MV = 661 EDC	15 - LINX - 6515DS - 15 - LINX - 6515DS - 15 - LINX - 6515DS -	3-T-arm SP1 3	12 - LNX - 6515DS -	3-T-arm SP1 3	
- EDISON ROA			Orientation of System	EPA (ft^2)	18.18	101.04	8.85	
ITE: TRUMBULL			0	Force-Z (lbs)	799	1138	742	
D 143' POLE, S	*			Force-Y (lbs)	885	4716	413	
PHOENIX PARTNERSHIP 130' EXT TO 143' POLE, SITE: TRUMBULL - EDISON ROA	*** INPUT LOADS ***			Force-X (lbs)	743	3957	347	
PHOENIX PARTNE	**		Orientation	in XY Plane (Degrees)	50.00	50.00	50.00	
FOR:		WIND - Continued	Load	Eccentricity (ft)	0.00	0.00	0.00	
DUSTRIES		- CINIM	Load	Height (ft)	109.00	89.00	89.00	
BY VALMONT INDUSTRIES		Loading Case	Load Mounting	Height (ft)	109.00	89.00	89.00	
ВҮ		Γo	Load	Number	18	19	20	

DATE 06/29/2016 Fuse 1.13.0.0		of System ***** +X-Axis (Transverse)	(Vertical) +Z-Axis		12-2-3/8" X 12	3-WORK PLATFO	1-EXTENSION C	1-4ft lightni	2-DB809KE-XT	3-1142-2AN	1-1142-2AN	2-872F-70TM	1-ANT790F2	1-DS1F06F36U-	1-2' HIGH PER	3-T-arm SP1 3	6 - LNX - 6515DS -	3-T-arm SP1 3	12-LNX-6515DS-	3-T-arm SP1 3	15-LNX-6515DS-
- EDISON ROA		tion * * ++ * * *	* * *	ЕРА (ft^2)	30.00	45.00	146.76	1.99	16.36	28.92	9.64	19.62	1.43	15.36	5.53	19.14	65.88	15.27	131.52	15.24	164.10
SITE: TRUMBULL		0	(Longitudinal) +Y-Axis	Force-Z (lbs)	1382	720	8870	71	485	644	215	204	65	427	125	1796	3578	1782	2099	1771	8802
143' POLE,	c		ft	Force-Y (lbs)	210	315	1021	14	115	205	68	138	TO	109	39	134	451	105	886	103	1.086
130' EXT		sss 0.75 m +X Axis	t Height 0.00 Axis ain = 1.00 ft	Force-X (lbs)	176	264	857	12	67	172	57	116	α	92	32	112	379	88	744	86	911
PHOENIX PARTNERSHIP		mph Ice Thickness es Clockwise From +X is 1.200	ategory 1, From +X <i>1</i> ockwise Fro irrounding	Orientation in XY Plane (Degrees)	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00
FOR:	TIA-222-G Àddendum 2 ICE + WIND	ty is 50.00 mpl is 50.0 Degrees Overload Factor is	Copographic Copographic - Degrees 0.00 Degree base above	Load Eccentricity (ft)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	00.00	0.00
DUSTRIES	TIA-222 ICE + W		A term of the second start of the second start of the second start of the second structure of the structure of the structure s	Load Height (ft)	142.00	142.00	139.00	144.00	148.25	150.00	150.00	148.00	144.00	153.00	142.00	142.00	129.00	129.00	119.00	119.00	109.00
BY VALMONT INDUSTRIES	Design Code Loading Case	Basic Wind Veloci Wind Orientation Structure Weight Exposure C. Gust	Structure Category 3, T Orientations are Measur Positive Y Axis is 90 Foundation Rotation of Elevation of structure	Mounting Height (ft)	142.00	142.00	139.00	142.00	142.00	142.00	142.00	142.00	142.00	142.00	142.00	142.00	129.00	129.00	119.00	119.00	109.00
Bì	Lo Lo			Load Number	Ч	N	m	4	ហ	9	7	8	ሻ	10	11	12	13	14	15	16	17

DATE 06/29/2016	Fuse 1.13.0.0		stem ir inn frinne	15-LINX-6515DS- 15-LINX-6515DS- 15-LINX-6515DS-	3-T-arm SP1 3
	Ĺц		Orientation of System	EPA (ft^2)	33.06
SITE: TRUMBULL			0	Force-Z (lbs)	1926
TO 143' POLE, S	**			Force-Y (lbs)	219
PHOENIX PARTNERSHIP 130' EXT TO 143' POLE, SITE: TRUMBULL - EDISON ROA	INPUT LOADS ***			Force-X (lbs)	184
PHOENIX PARTNEF	* * *	Ū	Orientation	in XY Plane (Degrees)	50.00
FOR:		ICE + WIND - Continued	Load	Eccentricity (ft)	0.00
USTRIES		ICE + W	Load	Height (ft)	109.00
BY VALMONT INDUSTRIES		Loading Case	Mounting	Number Height (ft)	109.00
ВҮ		LO	Load	NUMBER	18

BY VALMONT INDUSTRIES

12-LNX-6515DS-

130.68 33.06

3-T-arm SP1 3

15.09

3-T-arm SP1 3

1926 6883 1732

219 829 96

> 695 80

50.00 50.00

0.00 0.00

89.00 89.00

89.00

19 20

89.00

DATE 06/29/2016 Fuse 1.13.0.0	of System ***** +X-Axis (Transverse) (Vertical) +Z-Axis		12-2-3/8" X 12	3-WORK PLATFO	1-EXTENSION C	1-4ft lightni	2-DB809KE-XT	3-1142-2AN	1-1142-2AN	2-872F-70TM	1-ANT790F2	1-DS1F06F36U-	1-2' HIGH PER	3-T-arm SP1 3	6 - LINX - 6515DS -	3-T-arm SP1 3	12-LINX-6515DS-	3-T-arm SP1 3	15-LINX-6515DS-
- EDISON ROA	intation * * * * * * * * * * * * * * * * * * *	БРА (ft^2)	15.00	22.50	109.89	0.25	7.36	7.98	2.66	5.22	0.69	6.25	3.96	11.07	50.52	8.85	101.04	8.85	126.30
SITE: TRUMBULL	Orie (Longitudinal) +Y-Axis	Force-Z (1bs)	576	300	1567	TO	54	30	10	42	80	61	40	618	474	618	948	618	1185
143' POLE,	ft	Force-Y (1bs)	135	203	985	N	67	73	24	47	9	57	36	100	446	78	877	77	1077
HIP 130' EXT TO INPUT LOADS ***	0.00 Axis eight 0.00 xis	<pre>in = 1.00 ft Force-X (lbs)</pre>	113	170	827	N	56	61	20	40	ß	48	30	84	374	66	736	64	903
PHOENIX PARTNERSHIP *** INPU	mph Ice Thickness es Clockwise From +X is 1.000 c Category 1, Crest H ise From +X Axis clockwise From +X Axis	surrounding terrain Orientation in XY Plane (Degrees)	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00
FOR: I	Addendum 2 60.00 50.0 Degre add Factor br 1.10 Copographic ced Clockwj 0 Degrees 0.00 Degrees	base above Load :centricity (ft)	0.00	0.00	0.00	00.00	0.00	0.00	00.00	0.00	0.00	00.00	00.00	0.00	00.00	00.00	0.00	00.00	0.00
USTRIES	TIA-222-C T+S T+S A Velocity is ntation is veight Over Category 3, v Axis is 5 r Rotation of	f structure Load Height Ec (ft)	142.00	142.00	139.00	144.00	148.25	150.00	150.00	148.00	144.00	153.00	142.00	142.00	129.00	129.00	119.00	119.00	109.00
BY VALMONT INDUSTRIES	Design Code TIA-222-G Loading Case T+S Basic Wind Velocity is Wind Orientation is Structure Weight Overld Exposure C, Gust Facto Structure Category 3, 7 Orientations are Measun Positive Y Axis is 90 Foundation Rotation of	Elevation of Mounting Height F	142.00	142.00	139.00	142.00	142.00	142.00	142.00	142.00	142.00	142.00	142.00	142.00	129.00	129.00	119.00	119.00	109.00
ВҮ	D D	Load Number	н	7	m	4	Ŋ	9	7	ω	σ	10	11	12	13	14	15	16	17

DATE 06/29/2016	Fuse 1.13.0.0		System 16-1377 Selend	15-LINX-6515DS- 15-LINX-6515DS- 15-LINX-6515DS-	3-T-arm SP1 3	12-LNX-6515DS-	3-T-arm SP1 3
- EDISON ROA			Orientation of System	EPA (ft^2)	18.18	101.04	8.85
ITE: TRUMBULL			0	Force-Z (lbs)	666	948	618
O 143' POLE, S	*			Force-Y (lbs)	155	826	72
PHOENIX PARTNERSHIP 130' EXT TO 143' POLE, SITE: TRUMBULL - EDISON ROA	*** INPUT LOADS ***			Force-X (lbs)	130	693	61
PHOENIX PARTNER	* * *		Orientation	in XY Plane (Degrees)	50.00	50.00	50.00
FOR:		T+S - Continued	Load	Eccentricity ir (ft) (0.00	0.00	0.00
DUSTRIES		T+S - C	Load	Height (ft)	109.00	89.00	89.00
BY VALMONT INDUSTRIES		Loading Case	Load Mounting		109.00	89.00	89.00
ΒY		ΓO	Load	Number	18	19	20

PHOENIX PARTNERSHIP 130' EXT TO 143' POLE, SITE: TRUMBULL - EDISON ROA

FOR:

*** Properties ***

Area (in^2)	20.22 20.81 21.20 22.18 22.77	4.00.40.00	32.58 33.31 35.26 35.26 37.26 38.22 38.22	> 0 > 0 > 0 > 0 > 0 > 0 > 0 > 0 > 0 > 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Moments of Inertia (in^4) (1658 1808 1912 2190 2369	2942 3097 3773 3773	47951714	7445 7736 9322 9322 9807 9322 9325 11182 1182 1182 1182 1182 1182 1182 1	753114510 753474410 70269
w/t M Across Flats	16.39 16.91 17.26 18.13 18.13	14.57 14.85 15.55 15.97	16.95 17.36 17.64 19.34 19.04 19.04 20.14 20.14	, hoeeeeaaaa	1 1 2 2 2 2 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4
D/t Across Flats	102.93 105.90 107.88 112.83 115.80		0 8 0 4 7 1 4 5	22220000000000000000000000000000000000	110.55 112.24 114.46 115.07 117.90 120.73 123.56
Wall Thickness (in)	0.2500 0.2500 0.2500 0.2500 0.2500	.312 .312 .312 .312 .312 .312	0.3125 0.3125 0.31255 0.31255 0.31255 0.3125 0.3125	1 1 1 1 1 1 1 1 1 1 1 1 1 1	437 437 437 437 437 437 437 437 437 437
Diameter Across Flats (in)	25.733 26.475 26.970 28.208 28.950	000440 04040	33.107 35.632 35.632 36.870 38.107 38.107 38.849 39.344	00 00010749000 	8 8 8 8 8 8 8 8 8 8 8 8 8 8
Distance From Base (ft)	142.00 139.00 137.00 137.00 132.00	129.00 127.00 122.00 119.00 117.00	109.00 107.00 97.00 92.00 89.00	85.00 85.00 85.00 82.00 79.17 77.00 77.00 67.00 67.00 67.00 67.00 85.00	45.00 42.00 38.08 37.00 37.00 22.00
Connection Locations	Top of Sect 4 EPA 3	Top of Sect 3 EPA 15	EPA 17 EPA 19	Top of Sect 2 Base of Sect 3	Top of Sect 1 Base of Sect 2

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*** Properties ***

Area (in^2) 76.17 77.89	
Moments of Inertia (in^4) 30952	33046 35232 36133
w/t Across Flats 20.52 21.02	21.52 22.02 22.22
D/t Across Flats 126.38	132.04 134.87 136.00
Wall Thickness (in) 0.4375 0.4375	0.4375 0.4375 0.4375
Diameter Across Flats (in) 55.293	
Distance From Base (ft) 17.00 12.00	7.00 2.00 0.00
Connection Locations	Pt of Fixity

PHOENIX PARTNERSHIP 130' EXT TO 143' POLE, SITE: TRUMBULL - EDISON ROA FOR: BY VALMONT INDUSTRIES

DATE 06/29/2016 Fuse 1.13.0.0

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Forces and Moments for Pole in the Local Element Coordinate System

Axial (1bs)	1449	1699	2735	2916	3371	3645	4576	07CF	20/1 7415	5786	619	7226	7943	8344	9678	10050	0	11808	12708	13170	14584	m	15310	15425	0	17738	18334	19584	20872	22197	23557	24951	9	26768	76896	28603	20760	20105		34620
Resultant Shear (1bs)	5796	6102	13616	77851	14354	L4685	871	·σ	951	98	714	27378	27987	28373	37719	37953	38571	39197	39840	40261	47057	47310	47594	47557	79	48396	864	49285	49921	50554	51184	51808	52465	52766	52701	53091	27963	CT000	54202	54869
Shear Y-Dir. (lbs)	4440	4674	10430		07771	00277	433	14506	495	522	079	097	143	21735	œ	07	σ	0	0	0	80	36241	36459	36431	~	37073	37266	37754	38241	38727	39209	39687	40191	40421	40371	40670	41093	41149	41597	42032
Shear X-Dir. (lbs)	3725	3922	70/0	4000 7000	0776	つぜ	12028	12172	12545	12778	17449	17598	17990	18238	24245	24396	479	519	560	25879	024	041		30569	30845	31108	31270	31680	32088	32496	32900	m	m	m	33875	34126	34481	34528	34904	35269
Torsion (in-kips)	00					þ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Resultant Mx & My (in-kips)	191	> c	725	200	2103)	2103	2555	3709	4418	4418	5072	6734	7748	7748	8657	10954	13288	15661	710	012	823	6	69	21095	27	ი ო	69	6 6	5	6,	908	42215		m	38	89	85	183	н
My (in-kips)	-123	-261	-472	-1016	-1352		-1352	64	-2384	-2840	-2840	-3260	-4328	-4981	-4981	-5564	T 1 0 4 T	-8542	-10067	-10993 	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	7/11	-12454	-12454	-13560	-14613	-15425	-17315	-19230	0/172-	-23134	272	713	794	-27947	917	78	-31234	32	42
e WIND Mx (in-kips)	147 311	311	563	~~	1611		1611	റ	84	m d	10 17	ωι Ω	ດ - ເ	ית	הל	ກ່ຽ	ית היים	2 2	ית	010		5 0 0	4 A 4	14842	616 5	74 L	α η (η (003	ר ע ע ע) n /	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	יי יי יי	025	33306	476	668	722	970	222
Loading Case WIND Dist. From Base (ft) (in-k	142.00 139.00	39.0	37.0	32.0	29.0		129.00	27.0	22.0	5 0 7 7	יר דע) () () (つ c へ r つ c			- c	> c v d) C n a) с . ц	> •	85.00			> c - c) C) C	> C • C) () C) () (45.00	0 7	о 8	7.0	0 7	7.0

Forces and Moments for Pole in the Local Element Coordinate System

Axial (1bs)	36371 38155 39974 41826 43640 44307
Resultant Shear (lbs)	55415 55934 56417 56899 57899 57707
Shear Y-Dir. (1bs)	42451 42848 43218 43587 44000 44206
Shear X-Dir. (lbs)	35620 35954 36264 36574 36574 36920 37093
Torsion (in-kips)	
Resultant Mx & My (in-kips)	58430 61775 65151 68556 71990 73372
My (in-kips)	-37558 -39708 -41878 -44067 -44067 -46274 -47162
e WIND Mx (in-kips)	44760 47323 49909 52517 55148 55148 56206
Loading Case WIND Dist. From Base M (ft) (in-k	22.00 17.00 12.00 7.00 2.00

06/29	Fuse 1.13.0.0		Effective Yield Strength (ksi)	82.13 81.51 81.51 81.51 81.10 80.07 79.46	82.55 82.55 82.55 82.55 82.55 555	240000	79.83 79.01 77.69 77.69 77.36	81.79 81.38 81.38 80.99 80.01 79.32 77.95 77.27 76.59 76.31	80.55 80.20 79.74 79.61 79.61
EDISON ROA			Combined Stress Interaction	0.02 0.04 0.05 0.18 0.19		0 m m 4 4 4	0.51 0.58 0.65 0.68 0.68 0.72	0.60 0.64 0.67 0.67 0.73 0.73 0.81 0.81 0.81 0.91	0.77 0.78 0.80 0.80 0.82
TRUMBULL -		*	Torsion Interaction Term		0,0,0,0,0,0	<u> </u>			00.00 00.00 00.00
POLE, SITE:		Stresses **	Shear Interaction Term	0.02 0.02 0.04 0.04 0.04 0.04 0.04		0.00 0.06 0.08 0.08 0.08	0.07 0.07 0.08 0.08 0.08 0.08	0.07 0.07 0.07 0.07 0.07 0.07 0.06 0.06	0.05 0.05 0.05 0.05
EXT TO 143'		Deflections and	Flexural Interaction Term	0.02 0.04 0.04 0.07 0.14 0.18	440000		0.57 0.57 0.64 0.67 0.70 0.70	0.60 0.63 0.66 0.66 0.68 0.72 0.72 0.78 0.78 0.83 0.83 0.83	0.76 0.78 0.79 0.80 0.81
NERSHIP 130'		*** Def.	Axial Interaction Term	00.00 00.00 00.00 00.00 00.00 00.00 00.00			0.0010000000000000000000000000000000000	0.00 0.01 0.01 0.01 0.01 0.01 0.01 0.01	0.01 0.01 0.01 0.01 0.01
HOENIX PARTNERSHIP			Rotation (deg.)	6.53 6.52 6.52 6.51 6.44 6.38	- M M M H H C		с С С 4 4 4 4 7 7 7 7 7 7 7 7 7 7 7 7 7 7	4.44 4.44 4.44 4.29 4.42 3.30 1.17 3.44 2.22 3.45 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02	2.30 2.14 1.93 1.88 1.61
ЮНА			Defl. Z-Dir 1 (in)	444400 74400	м ш м и м и и и и и и и и и и и и и и и и и и и	1.2.2.3 1.2.3 1.9.5	0.4.0.0.4.0 1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	н н о о о о о о о о о о о о о о о о о о	00000
FOR:	for Pole		Defl. Resultant X & Y (in)	109.4 105.3 105.3 102.5 95.8 91.7			52.22 45.2 43.7 41.7 39.7	39.7 36.9 34.3 32.4 28.2 24.3 17.3 14.3 11.6 10.7	10.7 9.3 7.6 5.3
VALMONT INDUSTRIES	Stresses f		Defl. Y-Dir (in)	83.8 80.6 80.6 73.4 73.4			8	30.4 28.3 26.3 26.3 26.3 26.3 26.3 26.3 27.6 81.1 2.3 80.9 80.9	4 0 0 7 3 4 0 0 4 7 0 8 7 0 4
/ALMONT II	and	Case WIND	Defl. X-Dir (in)	70.3 67.7 67.7 65.9 65.9 61.6 59.0	9 F M O O B	40000	25.5 25.5 25.5	25.5 23.7 23.7 23.7 23.7 23.7 23.7 23.7 23.7	0.044W 0.09.4W 0.06.4
BY \	Deflections	Loading 0	Distance From Base (ft)	142.00 139.00 139.00 137.00 137.00 132.00	000000	112.0 09.0 07.0 02.0	ოთთთთთ	85.00 82.00 79.17 77.00 67.00 67.00 62.00 57.00 85.00 47.00	45.00 42.00 38.08 37.00 32.00

DATE 06/29/2016	Fuse 1.13.0.0		Effective Yield Strength (ksi)	78.44 77.85 77.26 76.68 76.09 75.27
EDISON ROA			Combined Stress Interaction	0.84 0.86 0.87 0.87 0.99 0.92
TRUMBULL -		*	Torsion Interaction Term	
POLE, SITE:		Stresses **	Shear Interaction Term	0.05 0.05 0.05 0.05 0.05 0.05
EXT TO 143'		*** Deflections and Stresses ***	Flexural Interaction] Term	0,83 0.85 0.86 0.86 0.90 0.91
PHOENIX PARTNERSHIP 130' EXT TO 143' POLE, SITE: TRUMBULL - EDISON ROA		*** Def]	Axial Flexural Shear Torsion Interaction Interaction Interaction Term Term Term Term	0.0 10.0 10.0 10.0 10.0 10.0
JENIX PARTI			Rotation (deg.)	1.35 1.03 0.84 0.59 0.34 0.10
DHd			Defl. Z-Dir (in)	000000 0000000
FUK:	ior Pole		Defl. Resultant X & Y (in)	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
NU LA	cresses f		Defl. Y-Dir (in)	о о о о о о о о о о о о о о о о о о о
SHINDONI INCOMENT	ns and Si	ase WIND	Defl. X-Dir (in)	инносос • • • • • • • • • • • • • • • • • • •
j +	Deflections and Stresses for Pole	Loading Case WIND	Distance From Base (ft)	27.00 22.00 17.00 7.00 2.00 0.00

PHOENIX PARTNERSHIP 130' EXT TO 143' POLE, SITE: TRUMBULL - EDISON ROA

FOR:

Forces and Moments for Pole in the Local Element Coordinate System

Axial (1bs)	6083	6541	15371	15685	16493	16994		22334	77/77	N7/67	00043	71755 70555		242275		0700 1		74074	##00##			1 L 1 C 1 C	60471	82478	01 #00	27969	542679	505£0	67426	69051	21202	FC7CL	74164	74868		74874	77066	79966	80406	82439	84512
Resultant Shear (1bs)	1941	2037	3616	3677	3838	3940	0	/ D D #		7000	עענט	9C00 6714	6890	7669	4075 8941	7408	C C C C C C C C C C C C C C C C C C C	3040	0000	0450	ן מי		11031	10995	11000	11186	11222	11351	11478	11603	11726	11846	06611	12073		050ZT	12106	12235	12226	12337	12444
Shear Y-Dir. (lbs)	1487	1560	2770	2817	2940	3018	o V	יס		C768	2100	5143	5270	5358	6849	6884	2000	27105	5051	7316	8348	+ α	8450	~	8497	8569	о Б	8695	79	88	86	50	9185	24		л	9273	9372	9365	9451	9533
Shear X-Dir. (lbs)	1248	1309	2324	2364	2467	2533	đ	9000 9015	1 6	3308	2.8	4316	3	ո	5747	5776	5870	5962	6061	6139	7005	2221	20602	7067	Ê	7190	7213	7296	7378	7458	7537	7614	7707	7761	00 L L		7781	7864	7859	7930	7999
Torsion (in-kips)	0 0	50	5 0			0	C		00	0	0	0	0	0	0	0	0	0	0	0	0	c	0	0	0	0	0	0	0	0	0	0	0	0	c		0	0	0	0	o
Resultant Mx & My (in-kips)	83	100 100 100	7 6	まし	ρ (608	608	724	1022	2	2	1366	~	0	0	\sim	~	m	ማ	C I	24	20	4769	4769	5167	5547	5839	6518	7205	7900	8603	9313	10030	60	81201		#C/0T	1.7.5.1	11486	12226	12972
My (in-kips)	-54 -100					175-	-391	-466	-657	-775	-775	-878	-1141	-1301	-1301	-1440	-1790	-2146	-2508	-2727	272	-2896	06	-3065	ЗЗ	-3565	37	-4190	46	20	-5530	50	-6447	6	-6633			T87/-	-7383	-7859	-8338
: ICE + WIND Mx (in-kips)	64 119			្រ	i u	Þ	0	ഹ	ω	N	92	1046	9 20	55	ഗ	77	13	5	86	20	5	45	ហ	65	6 0	4249	47	99	52	0.5	ი ი	E	68	0 6	06	5		1 1 0 0	ית	ο γ	m 6
Loading Case Dist. From Base (ft)	142.00 139.00	39.0	37.0	32.0		י י י	29.0	27.0	22.0	19.0	19.0	117.00	12.0	0.60	0.60	0.7.0	02.0	7.0	0.2	о. 6	о. 6	7.0	0.0	85.00	0. 7	с. С.	7.0	0.0	0.7	0	0.0	. 0	0.7	0	5.0	0 2	ο . α		> c - c) () (0.7

Forces and Moments for Pole in the Local Element Coordinate System

Axial (1bs)	86623 88769 90946 93146 95347 95347
Resultant Shear (1bs)	12545 12638 12721 12804 12915 12915
Shear Y-Dir. (lbs)	9610 9681 9745 9809 9893 9893
Shear X-Dir. (1bs)	8064 8124 8177 8230 8331 8301
Torsion (in-kips)	00000
Resultant Mx & My (in-kips)	13724 14483 15246 16015 16788 17099
My (in-kips)	-8822 -9309 -9800 -10294 -10791 -1091
e ICE + WIND Mx (in-kips)	10514 11094 11679 12268 12268 12861 13099
Loading Case ICE + WIND Dist. From Mx Base Mx (ft) (in-kips)	22.00 17.00 12.00 7.00 2.00

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DATE 06/29/2016	1.13.0.0			Effective Yield	Strength (ksi)				•	80.07 79.46				1 U 1 U	ם ה י י	10	4	6.0	6.0	9.0	8	0		9.1	9.0	77.04		5	m, (ית	ه ه	<u>, c</u>	<u>,</u> c	ο	2	ഗ	76.31	נ כ		5.7	Q	0.6
EDISON ROA				Combined Stress	Interaction		• •	•	•	0.05		20.0 20.0) c	•	•		•		•							0.20		0.17	•	•			•				0.24		0.20	•	0.21	•
TRUMBULL -		* *		Torsion Interaction	Term	0	•	•		0.00	¢	0.00		20		0	0	0	°.	<u>.</u>	<u> </u>	<u>,</u> 0	<u> </u>	2.0	<u> </u>	0.00	'	0.00	. c	, c	, c	20		0	0	0.00	۰.	C	20	۰.	0.00	°.
POLE, SITE:		11 11 12 12 12 12 12 12 12 12 12 12 12 1))) 	Shear Interaction	Term	0.01			10.0	0.01			10.01	•	0.01			0.01								0.02		0.02		•	•		• •	•	0.01	0.01	0.01	10 0		•	0.01	•
EXT TO 143'		Deflections and		al ion	штөт	•	•	•	•	0.05	C	20		· ·	<u> </u>	<u>,</u>	0	0.10	<u>ң</u> ,	<u>,</u> .	<u> </u>	4 -	1-	1 -	1 1	Ч	٣	ст. л г.	• -	! -		1	Ч.	. 2	2.	5	2	5	1	Ч.	0.19	
NERSHIP 130'		*** Def		Axial Interaction	штат	0.00	0.00	10.0		0.01	10 0		10.01		ς.	°.	°.	0.02	<u> </u>	2.0	<u>,</u> c) C	2	0	? ?	۰.	Ċ				•				0	0.	0.02	0.02	0	•	0.02	2
PHOENIX PARTNERSHIP				Dotation	(deg.)	•	1.60	•	•	1.55			•		•	•	•	1.40	•	•	•	• •			•				? ?	ō.	•	ω.	۲.	•	0.64	•	•	0.54	<u>،</u>	4.	0.44	?
OHd				Defl. 7-Dir	(ii)	•	0.3	•		•	•	•						0.2										1.0	•	•	٠	•		•	•	٠	•	•	•	•	0.0	•
FOR:	or Pole			Lerr. Resultant X & Y	(in)	0	25.2		 N	Ŀ.	,	н.	ς.	8	ω.		ف	7. CT	ი տ						<u>.</u>			8.7	•	•				•				•	•	•	1.7	•
INDUSTRIES	Stresses f	CINIM +		Defl. Y-Dir		20.1		h α		.0	9	0	ы. С	4	4	m i	N C	12.0			5							6.7	•		•	•			٠	•		•	•	•		•
VALMONT I	and	Case ICE		Defl. X-Dir	(in)	16.9	o u		4	4.	4	m.	N	ni a		-i c			. ი		•						•	5.6		•	•							•	٠	•	4.40	•
. ХӨ	Deflections	Loading (Distance	From Base		142.00	0 0 0 0 0 0	37.0	32.0	29.0	29.0	27.0	22.0	ים. היי	י ר י ר	0 C 7 C 7 C		109.00	0.7.0	02.0	7.0	0.0	9.0	0.6	0.7	0.0	5.0	82.00	9.1	7.0	2.0	0.7		0.0) C	с . и	- -	5.0	0 0 7 0	0 C	32.00	•

DATE 06/29/2016	Fuse 1.13.0.0		Effective Yield Strength (ksi)	78.44	77.85	77.26	76.68	76.09		75.27	
EDISON ROA			Combined Stress Interaction	0.21	0.22	0.22	0.22	0.23	20 0	0.23	
TRUMBULL -		*	Torsion Interaction Term	0.00	0.00	0.00	0.00	0.00	00 0	0.00	
POLE, SITE:		Stresses **	Shear Torsion Interaction Interaction Term Term	0.01	0.01	0.01	0.01	0.01	0.01	0.01	
EXT TO 143'		*** Deflections and Stresses ***	Flexural nteraction I Term	0.20	0.20	0.20	0.20	0.21	0.21	0.21	
HOENIX PARTNERSHIP 130' EXT TO 143' POLE, SITE: TRUMBULL - EDISON ROA		*** Defl	Axial Flexural Interaction Interaction Term Term	0.02	0.02	0.02	0.02	0.02	0.02	0.02	
ENIX PARTN			I Rotation (deg.)	0.32	0.26	0.20	0.14	0.08	0.02	0.00	
PHC			Defl. Z-Dir (in)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
FOR:	or Pole		Defl. Resultant X & Y (in)	6.0							
NDUSTRIES	tresses f	UNIW +	Defl. Y-Dir (in)	0.7	5 C	η. Ο Γ	7.0	0.0	0.0	0.0	
BY VALMONT INDUSTRIES	ns and St	ase ICE .	Defl. X-Dir (in)	0.6	, t	7.00	т. О	0.0	0.0	0.0	
BY 1	Deflections and Stresses for Pole	Loading Case ICE + WIND	Distance From Base (ft)	27.00	00.44		00.7T	00.1	2.00	0.00	

PHOENIX PARTNERSHIP 130' EXT TO 143' POLE, SITE: TRUMBULL - EDISON ROA

FOR:

Forces and Moments for Pole in the Local Element Coordinate System

DATE 06/29/2016 Fuse 1.13.0.0

Axial (1bs)	72	1939	48	62	6	4222	۳	5496	0005	6311	7854	8067	8613	8949		11004		12206	2	1 (1)) 4	15041	ហ	15210	10	402	# C > C - C	υ τ τ α		10	7 0 0 7 0 0	+ σ γ α	ν α ο α 4 ο	23253		c)	না	- vo	v u		28941
Resultant Shear (lbs)	τo	1067	8 ·	42	Ч,	20 C		3312	- 4	3475		~	œ	4959	ហ	ശ	5	6850	S S	0	<u>_</u> N	5	8316	8310	ם היו (א ר סני	1 4	i C	55	ι C	9 4	l u l c) 	9219		9209	9278	9374	9389	o Ch	9597
Shear Y-Dir. (lbs)	777	817	978T	1854	1724 	1968	0	2537	61	99	3637	90	74	3799	05	80	16	5248	3	88	6	50	6370	6365	40	6475	6609	ם ה ה	6679	76	6849	6	200	7062		7054	7107	7181	7192	7273	7352
Shear X-Dir. (lbs)	652	686	7501	222T		TCOT	H	2129	2	2	5	5	14	Ч	24	4266	4334	4403	4475	52	28	5314	34	5341	38	5433	40	5	5604	67	5747	81	68	5926				0	6035	6103	6169
Torsion (in-kips)	0	00			-	D	0	0	0	0	o	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		Э	0	0	0	0	0
Resultant Mx & My (in-kips)	34	T/	100	677		0 0 1	368	447	649	773	773	æ	****	1355	m	ഹ	5	m	~	σ		-	e	3387	68	3974	19	4708	22	75	28	83	7	59	L L	1601	ጣ -	ന	8491	0	963I
My (in-kips)	- 22	9 1 1 1	, r , n	-178	750-	1	-237	-287	-417	-497	-497	- 570	-757	-871	-871	-973		-1494	· ·	ur i	ur -	C2		-2177	-2371	-2555	-2696	\sim	e	-3700	-4043	-4390	-4742	-4883	_	47 I	n	n	-5458	-5822	-6191
e T+S Mx (in-kips)	26 F A	14 12 14 13	66	i H	282)	282	4	5		σ	ω	90	m i	ĔΟ	19	46	78	60	5	D D	44	ი ი	2595	82	04	21	60	00	40	81	23	65	82	ŝ	3 P 0 C	51	4	6504	6	37
Loading Case Dist. From Base (ft) (142.00 142.00	0.65	37.0	32.0	29.0		129.00	27.0	0.22	0.91 19.0	י ר די ר	0.7	0.21	0.20	0.20	0 · / 0	0.20	0.0	0.0	с. С. с	י כ י נ	0.7	2.0 2	85.00	5 7 7	9.1	0.7	2.0	7.0	2.0	7.0	2.0	7.0	0.0	с и) () () () (ο. οι	37.00	2.0	7.0

Forces and Moments for Pole in the Local Element Coordinate System

Axial (1bs)	30201 31489 32408 34155 35529 36085
Resultant Shear (1bs)	9696 9791 9881 9971 10069 10116
Shear Y-Dir. (lbs)	7428 7569 7569 7638 7713 7713
Shear X-Dir. (lbs)	6233 6294 6351 6409 6472 6502
Torsion (in-kips)	000000
Resultant Mx & My (in-kips)	10211 10796 11387 11983 11983 12585 12585
My (in-kips)	-6563 -6940 -7319 -7703 -7703 -8245
e T+S Mx (in-kips)	7822 8270 8723 9180 9641 9826
Loading Case T+S Dist. From Base (ft) (in-	22.00 17.00 12.00 7.00 2.00

DATE 06/29/2016	Fuse 1.13.0.0		<pre>Effective Yield Strength (ksi)</pre>	82.13 81.51 81.51 81.10 81.10 79.46	00000	104000	80.65 79.83 79.01 77.69 77.69 77.36	81.79 81.38 80.99 80.69 79.32 77.27 77.25 76.59	80.55 80.20 79.74 79.61 79.61
EDISON ROA			Combined Stress Interaction	0.01 0.01 0.02 0.02 0.03 0.03			0.08 0.11 0.12 0.12 0.12 0.12 0.12 0.12	0.11 0.11 0.12 0.12 0.14 0.15 0.15 0.15 0.16 0.16	0.14 0.14 0.14 0.14 0.14
TRUMBULL -		* *	Torsion Interaction Term	00.0					00.00
POLE, SITE:		Stresses *	Shear Interaction Term	00.0 00.0 10.0 10.0 10.0 10.0	• • • •			10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0	10.0 10.0 10.0 10.0
EXT TO 143'		Deflections and	Flexural Interaction Term	0.00 0.01 0.01 0.01 0.03 0.03 0.03			0.09 0.10 0.11 0.12 0.12 0.12 0.12	0.10 0.11 0.11 0.11 0.12 0.13 0.14 0.15 0.15 0.16	0.13 0.14 0.14 0.14
NERSHIP 130'		*** Def.	Axial Interaction Term				0.00 0.01 0.01 0.01 0.01 0.01 0.01	0.00 0.00 0.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00	0.01 0.01 0.0 10.0 10.0
HOENIX PARTNERSHIP			Rotation (deg.)	1.12 1.14 1.14 1.15 1.12 1.12 1.12	1.12 1.12 1.09 1.08	1.02 1.02 1.02 1.02	0.966 0.987 0.884 0.884 0.884 0.882 0.822	0.80 0.78 0.75 0.75 0.75 0.56 0.56 0.56 0.56 0.56 0.56 0.56 0.5	0.40 0.37 0.34 0.33 0.28
ЮНđ			Defl. Z-Dir 1 (in)	000000				00000000000000000000000000000000000000	0.000.00.00
FOR:	for Pole		Defl. Resultant X & Y (in)	1.01 1.02 4.02 4.02 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03	0 U 4 M M		111 10080000 1111 1008000 100800 100800 100800	олога 4 ммииин 9 лого 4 ммииин 9 лого 6 лого 9	9.1 9.1 9.9 9.9 9.9
VALMONT INDUSTRIES	Stresses f		Defl. Y-Dir (in)	14.7 14.1 14.1 123.7 123.8 122.8				๗фффののの 	4
ALMONT II	and	Case T+S	Defl. X-Dir (in)	12.3 11.8 11.8 11.5 11.5 10.8				4400001111 	1.2 1.0 0.9 0.8 0.6
ВҮ V	Deflections	Loading C	Distance From Base (ft)	142.00 139.00 139.00 137.00 137.00 132.00	00000 00000	17.0 12.0 09.0 09.0 07.0	02.0 97.0 889.0 85.0 85.0	85.00 82.00 79.17 72.00 67.00 67.00 62.00 52.00 52.00 52.00 52.00	45.00 42.00 38.08 37.00 32.00

DATE 06/29/2016	Fuse 1.13.0.0		Bffective Yield Strength (ksi)	78.44 77.85 76.68 76.09 75.50
EDISON ROA			Combined Stress Interaction	0.15 0.16 0.16 0.16 0.16 0.16 0.17 0.17
TRUMBULL -		*	Torsion Interaction Term	
POLE, SITE:		Stresses **	Shear Interaction Term	0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01
PHOENIX PARTNERSHIP 130' EXT TO 143' POLE, SITE: TRUMBULL - EDISON ROA		*** Deflections and Stresses ***	Axial Flexural Shear Torsion Interaction Interaction Interaction Term Term Term Term	0.15 0.15 0.15 0.16 0.16 0.16
VERSHIP 130'		*** Defl	Axial Interaction] Term	0.24 0.01 0.19 0.01 0.15 0.01 0.10 0.01 0.06 0.01 0.02 0.01 0.01 0.01
ENIX PART			I Rotation (deg.)	0.24 0.19 0.15 0.10 0.06 0.02 0.02 0.00
PHC			Defl. Z-Dir (in)	0.7 0.0 0.4 0.0 0.3 0.0 0.1 0.0 0.0 0.0 0.0 0.0 0.0 DEFLECTION LIMIT
FOR :	or Pole		Defl. Resultant X & Y (in)	
IDUSTRIES	tresses f		Defl. Y-Dir (in)	0.5 0.3 0.1 0.1 0.0 0.0
BY VALMON'T INDUSTRIES	ns and St	ase T+S	Defl. X-Dir (in)	0.4 0.3 0.2 0.1 0.0 0.0 0.0 BFLECTION
л v	Deflections and Stresses for Pole	Loading Case T+S	Distance From Base (ft)	27.00 0.4 0.5 22.00 0.3 0.3 17.00 0.2 0.2 7.00 0.1 0.1 7.00 0.0 0.0 2.00 0.0 0.0

PHOENIX PARTNERSHIP 130' EXT TO 143' POLE, SITE: TRUMBULL - EDISON ROA

FOR:

FLANGE ANALYSIS Version IMPAX-16.5.2016

SIZED FOR SHAFT MOMENT CAPACITY

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TOINT

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FLANGE FOR THE C

lbs lbs ksi lb_{s} 110,022 1,049 105 0.98 435 Shear 0.41 0.40 0.41 0.41 Maximum Bolt Axial Force= Maximum Bolt Shear = Tensile Strength = 11 Maximum Stress Ratio Bending Stress Ratio Shear Stress Ratio Bearing Stress Ratio Combined Stress Ratio Controlling Stress Flange Weight Results Bolts in-kips in-kips lbs lbs in in ksi ksi in in 14 1.50 A325 33.77 000 50 50 8-56 18 28.950 28.997 28.904 0.3125 0.2500 13,005 37.52 2.000 65 No. of sides Design Diameter Detailed "C" Sect. Dia Detailed "D" Sect. Dia Yield Strength Tensile Strength Valmont Material Spec. Thickness Thickness for M. Cap. Yield Flange Outside Diameter Applied Reactions Resultant Moment Number of Bolts Resultant Shear Bolt Diameter Bolt Material Bolt Circle Thickness Input Data Torsion Axial Bolts Tube

	Y-COORD 7.33 16.46
	X-COORD 15.21 3.76
	BOLT NO. 2 4
*** BOLT COORDINATES ***	* *
*	Y-COORD 0.00 13.20
	X-COORD 16.89 10.53
	BOLT NO. 1 3

DATE	Fuse 1.13.0.0	THREAD SIZE	4.5-UNC-2A	CONFIGURATION OF BOTTOM END	ITH HEAVY HEX HEAD NUT	E d] IN EIA-G SPECS.		TENSION-LB MAX FORCE-LB 65546 69982 175195 179630 217075 221511	*		SIDE LLENGTH (IN.)	12.86	TOTAL MOMENT ALONG FAIL LINE (INLB.)	3966065			**************************************
KUMBULL - EDISON ROA	*** (GALVANIZED LENGTH (IN.)	72.00		THREADED WITH HEAVY	ED TO DETAIL TYPE		Y-COORD MAX TENSIO 10.339 65546 27.069 175195 33.459 217075		* * *	RAW MATERIAL WEIGHT (LB.)	4971	EFFECTIVE LENGTH (IN.)	60.17	VERTICAL AR STRESS (PSI)	11002	
POLE, SITE: TRUMBULL	LOADING CASE WIND	PROJECTION LENGTH (IN.)	12.25	INTERACTION VALUE	0.87	Y FACTOR RELATED		. X-COORD 31.821 19.667 0.00	72.92 IN.	CASE WIND	ACTUAL WEIGHT (LB.)	3029	OTAL LENGTH OF FAIL MODE LINE (IN.)	74.00	MAX. VF SHEAR (PS		**************************************
TO 143	ВΥ	SHI PPED AS	TEMPLATES	STRESS AREA (SO IN)	3.250	SHEAR FORCE BY	FORCES ***	BOLT NO 2 4 6	DIAMETER =	D BY LOADING			H				* * * * * * *
KSHIP 130' EXT	VISTICS GOVERNED	SH WEIGHT (L.B.)	2418 BOLTS,	FACTORED NOMINAL TENS. STRENGTH (T.R.)	260004	DIVIDING SHEA	COORDINATES AND F	FORCE-LB * 2218 * 131117 * 210778 *	TEMPLATE DI	STICS GOVERNED BY	THICKNESS (IN.)	3.2500	CRITICAL FAILURE MODE	щ	EFFECTIVE ELD STRESS (PSI)	50000	SYSTEM ******* T+S 9826 - 8245 10111 36086
PHOENIX PARTNERSHIP	CHARACTEN	(III)	(1)	11	26	CALCULATED BY	** BOLT COOR	F-LB MAX		CHARACTERISTICS	ALL TH .)	74.04	POLE DIAM. (MAJOR DIAM.) (IN.)	0	EFF VIELD ()		COORDINATE S ICE 13099 - 10991 12966 96209
PHOENI	*** ANCHOR BOLT CHARACTERISTICS	LENGTH (IN.)	72	MAXIMUM BO SHEAR FORCE (LB.)	2883	UE WAS CALCU	* *	MAX TENSION-LIB - 2218 126681 206342	66.92 IN.	*** BASE PLATE C	OVERALL WIDTH (IN.)	7	POLE DIAM (MAJOR DIA) (IN.)	59.50	BENDING STRESS (PSI)	37446	GLOBAL WIND 56206 - 47163 57669 44355
ES FOR:	* * *	DIAMETER (IN.)	2.250	MAXIMUM BOLT FORCE (LB.)	221511	NOTE: BOLT INTERACTION VALUE WAS		RD Y-COORD 9 0.00 9 19.667 9 31.821	n	* * *	OVERALL LENGTH (IN.)	72.92			OTHER	A572	** LOADS AT POLE BASE IN THE DING CASE IDENTIFICATION ENT ABT. X-AXIS (IN-KIP) ENT ABT. Y-AXIS (IN-KIP) ENT ABT. Y-AXIS (IN-KIP) AR FORCE (LB.) TICAL FORCE (LB.)
INDUSTRI				MAXI F		BOLT INT		 X - COORD 33.459 27.069 10.339 	BOLT CIRCLE		ۍ به	ω			STEEL SPECIF.		S AT POLE SE IDENTI · X-AXIS · Y-AXIS E (LB.) ORCE (LB.)
BY VALMONT INDUSTRIES		NUMBER OF BOLTS	20	STEEL SPECIF.	A615	NOTE:		BOLT NO.	MAX.		DRAWING NUMBER	SD18-98	TOP WIDTH (IN.)	12.86	VALMONT	S56	** LOADS AT FOLE BASE IN LOADING CASE IDENTIFICATION MOMENT ABT. X-AXIS (IN-KIP) MOMENT ABT. Y-AXIS (IN-KIP) MOMENT ABT. Y-AXIS (IN-KIP) SHEAR FORCE (LB.) VERTICAL FORCE (LB.)

Daniel L. Goulet C Squared Systems, LLC 65 Dartmouth Drive Auburn, NH 03032 603-644-2800 Dan.Goulet@csquaredsystems.com



June 10, 2016

Connecticut Siting Council

Subject: CT5051 Police Station – 158 Edison Road, Trumbull, CT

Dear Connecticut Siting Council:

C Squared Systems has been retained by Phoenix Partnership to investigate RF Power Density levels for the T-Mobile, Verizon Wireless and Trumbull Police Department antenna arrays to be installed on the proposed monopole tower to be located at 158 Edison Road in Trumbull, CT. The Trumbull Police Department will be relocating their antennas from the existing 100' lattice tower to the top of the proposed 143' monopole.

Calculations were done in accordance with FCC OET Bulletin 65. These worst-case calculations assume that all transmitters are simultaneously operating at full power and that there is 0 dB of cable loss. The calculation point is 6 feet above ground level to model the RF power density at the head of a person standing at the base of the tower.

Due to the directional nature of the proposed antennas, the majority of the RF power is focused out towards the horizon. As a result, there will be less RF power directed below the antennas relative to the horizon, and consequently lower power density levels around the base of the tower. Please refer to the Attachments for the vertical patterns of the proposed T-Mobile and Verizon antennas. The calculated results for T-Mobile and Verizon Wireless shown below include a nominal 10 dB off-beam pattern loss to account for the lower relative gain directly below the panel antennas.¹

Location	Carrier	Vertical Distance to Antenna (Ft.)	Operating Frequency (MHz)	Number of Trans.	Effective Radiated Power (ERP) Per Transmitter (Watts)	Power Density (mw/cm ²)	Limit	%MPE
	Trumbull PD	154	850	11	35	0.0063	0.5667	1.12%
	Trumbull PD	151.7	857.2625	1	280	0.0047	0.5715	0.83%
	Trumbull PD (EMS)	151.5	155.805	1	70	0.0012	0.2000	0.59%
	Trumbull PD (PWD)	151.5	154.055	1	50	0.0008	0.2000	0.42%
	Trumbull PD	148	154.1	1	25	0.0004	0.2000	0.22%
	Trumbull PD (HD)	148	45.84	1	50	0.0009	0.2000	0.45%
vel	TrumbullPD (FD)	148	33.56	1	110	0.0020	0.2000	0.98%
Ground Level	Trumbull PD (FD 2)	148	33.76	1	110	0.0020	0.2000	0.98%
pu	Trumbull PD (FD 3)	148	33.86	1	110	0.0020	0.2000	0.98%
no.	Trumbull PD (CSP HL)	148	39.46	1	100	0.0018	0.2000	0.89%
G	T-Mobile	120	1930	1	502	0.0014	1.0000	0.14%
	T-Mobile	120	2100	1	631	0.0017	1.0000	0.17%
	Verizon	110	1970	1	1191	0.0396	1.0000	3.96%
	Verizon	110	869	9	352	0.0105	0.5793	1.82%
	Verizon	110	2145	1	1750	0.0058	1.0000	0.58%
	Verizon	110	746	1	705	0.0023	0.4973	0.47%
							Total	14.62%

Table 1: Carrier Information²

¹ No pattern adjustment has been taken for the Trumbull PD omnidirectional or dipole antennas.

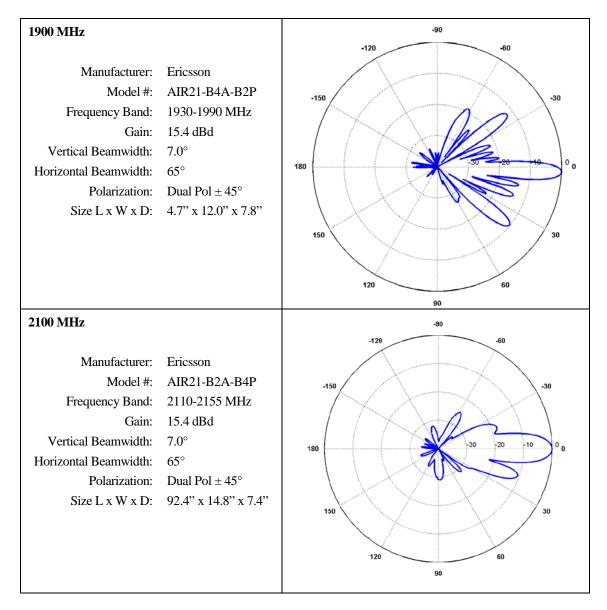
² Please note that %MPE values listed are rounded to two decimal points. The total %MPE listed is a summation of each unrounded contribution. Therefore, summing each rounded value may not reflect the total value listed in the table.

Summary: Under worst-case assumptions, RF Power Density levels for the proposed antenna arrays will not exceed **14.62%** of the FCC MPE limit for General Public/Uncontrolled Environments.

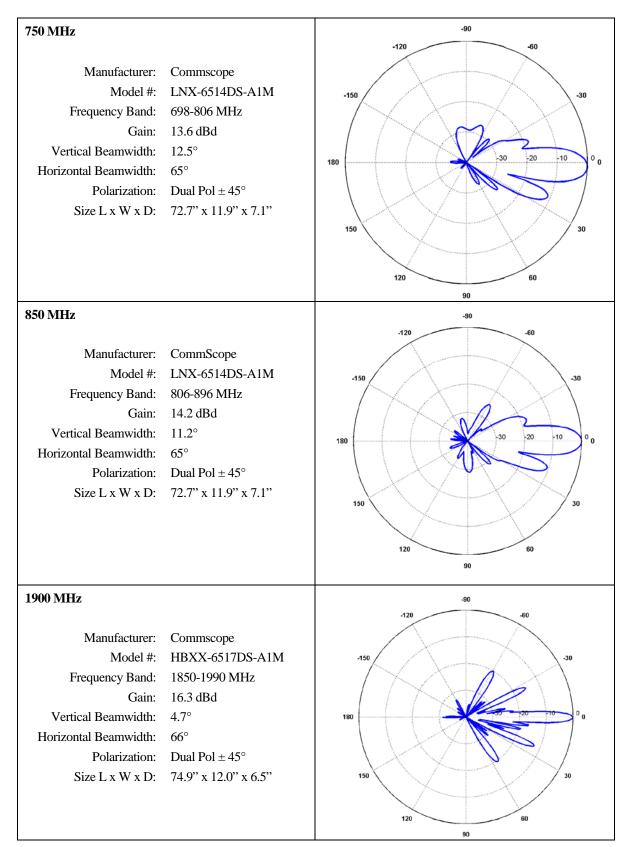
Sincerely,

Vandh Skult

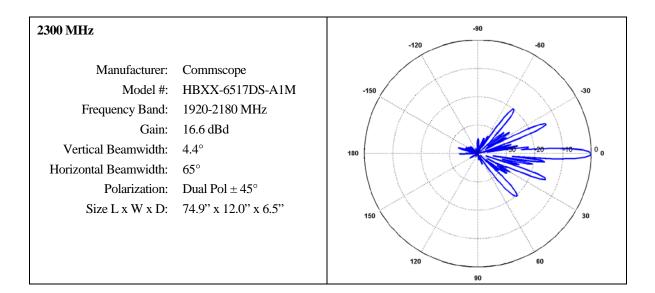
Daniel L. Goulet C Squared Systems, LLC



Attachment I: T-Mobile's Antenna Data Sheets and Electrical Patterns



Attachment II: Verizon's Antenna Data Sheets and Electrical Patterns





June 28, 2016

VIA CERTIFIED MAIL

Re: Sub-Petition for Declaratory Ruling Filed with the Connecticut Siting Council for Modifications to a Telecommunications Facility at 158 Edison Road, Trumbull, Connecticut

Dear First Selectman Herbst:

Phoenix Partnership, LLC ("Phoenix") intends to file a Sub-Petition for Declaratory Ruling ("Sub-Petition") with the Connecticut Siting Council ("Council") seeking approval to modify the existing wireless telecommunications facility at 158 Edison Road in Trumbull (the "Property"). This notice is being sent to you because you are listed as an owner of land that abuts the Property.

Phoenix proposes to extend the tower by 13 feet, which would allow the Town's emergency services antennas to be located at a height of 143 feet. (These modifications are referred to as "Facility Modifications").

The Facility Modifications constitute an eligible facility request pursuant to Section 6409(a) of the Federal Middle Class Tax Relief and Job Creation Act of 2012 (47 U.S.C. § 1455(a)) and the October 21, 2014 Order of the Federal Communications Commission (FCC-14¬533). A copy of the full Sub-Petition is attached for your review.

Pursuant to its decision in Petition No. 1133, comments or concerns regarding this proposal should be submitted to the Council within thirty (30) days of the date of the Sub-Petition.

If you have any questions regarding the Sub-Petition or the Council's process for reviewing the Sub-Petition don't hesitate to contact me at 203-623-3287. You may also contact the Council directly at 860-827-2935.

Very truly yours,

52:

Keith Coppins

110 Washington Avenue North Haven, Connecticut 06473 Phone - 203-623-3287 Fax 203-234-6398

110 Washington Avenue North Haven, Connecticut 06473 Phone - 203-623-3287 Fax 203-234-6398 Carlos Rivera Elana D and Carlos Jr 33 Merwin St Trumbull, CT 06611

Michael K and Aliss Obeid 65 Merwin St Trumbull, CT 06611

Sahav Hila 183 Edison Rd Trumbull, CT 06611

Susan M Tierney 12 Merwin St Trumbull, CT 06611

Michael A and Rosa Guarna 142 Edison rd Trumbull, CT 06611

Mariusz P and Teresa Mierzejewska 14 Koger Rd Trumbull, CT 06611

Jose and Ximena Gonzales-Cardentey 180 Edison Rd Trumbull, CT 06611 Claire G Bitola and Jean A Esposito 142 Cottage St Trumbull, CT 06611

Town of Trumbull First Selectman Tim Herbst 5866 Main St Trumbull, CT 06611

Joe E and Rosa M Bean 171 Edison Rd Trumbull, CT 06611

Kathleen J Thopsey 10 Koger Rd Trumbull, CT 06611

John C and Judith Keklik 153 Edison Rd Trumbull, CT 06611

Tammy and Kevin Mcgee 8 Koger Rd Trumbull, CT 06611 Alfredo and Carmen Serrano 35 Merwin St Trumbull, CT 06611

Herbert and Doretha Bendolph 198 Edison Rd Trumbull, CT 06611

Robert J, Elizabeth M and Jason J Crainich 16 Merwin St Trumbull, CT 06611

Alyssa R Schulman 6 Koger rd Trumbull, CT 06611

Michael W and Lois C Gillern 20 Merwin St Trumbull, CT 06611

PMT NTL Financing 2015 1 C/O Hunt Leibert Jacobson PC 50 Weston St Hartford, CT 06120