

August 24, 2020

Melanie A. Bachman
Executive Director
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

Regarding: Notice of Exempt Modification – T-Mobile Site #: CT11054A_Anchor
Address: 922 Northrop Road, Wallingford, CT

Dear Ms. Bachman:

T-Mobile currently maintains nine (9) antennae at the 141-foot level of the existing +/- 150-foot monopole at the above-referenced address, latitude 41.489300, longitude -72.768300. The tower is operated by American Tower Corporation.

T-Mobile now intends to modify its existing telecommunications facility by adding three (3) antennae, swapping three (3) antennae, adding three (3) remote radio units (RRU), adding three (3) cable and swapping the mount as more particularly detailed and described in the enclosed Construction Drawings prepared by A.T. Engineering Service, PLLC, last revised August 14, 2020. The centerline height of the existing and proposed antennas is and will remain at 141 feet.

Planned Modifications:

Add:

- (3) AIR6449 B41 Antennae
- (3) 4415 B25 RRU
- (3) 1-1/4" Hybrid Cables

Remove and Replace

- (3) AIR21 B4A/B12P Antennae – remove; (3) AIR32 B66AA/B2A – replace

Remove

- (6) 1-5/8" Coax
- (1) 1-5/8" Hybrid Cable

Existing to Remain:

- (6) Antennae
- (6) RRU
- (6) 1-5/8" Coax

Please accept this letter as notification pursuant to R.C.S.A §16-50j-73 for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to American Tower Corporation as tower operator, The Honorable William W. Dickinson, Jr., Mayor of the Town of Wallingford as chief elected official, Kacie Hand, Town Planner of the Town of Wallingford and AT&T Wireless PCS Inc as property owner.

The planned modifications to the facility fall squarely within those activities explicitly provided for in R.C.S.A. § 16-50j-72(b)(2). Specifically:

1. The proposed modifications will not result in an increase in the height of the existing structure.
2. The proposed modifications will not require an extension of the site boundary.
3. The proposed modifications will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.
4. The operation of the modified facility will not increase radio frequency emissions at the facility to a level at or above the Federal Communications Commission safety standard. *Please see the RF emissions calculation for T-Mobile's modified facility dated July 24, 2020 and prepared by EBI Consulting enclosed herewith.*
5. The proposed modifications will not cause an ineligible change or alteration in the physical or environmental characteristics of the site.
6. The existing structure and its foundation can support the proposed loading. *Please see the structural analysis dated July 10, 2020 and prepared by American Tower Corporation enclosed herewith.*

For the foregoing reasons, T-Mobile respectfully submits that the proposed modifications to the above referenced telecommunications facility constitute an exempt modification under R.C.S.A. § 16-50j-72(b)(2).

Respectfully submitted,



Jennifer Iliades
Site Acquisition Consultant
Centerline Communications, LLC
750 West Center Street, Suite 301
West Bridgewater, MA 02379
jiliades@clinellc.com

Enclosures: Exhibit A – Original Facility Approval
 Exhibit B – Property Card and GIS
 Exhibit C – Construction Drawings
 Exhibit D – Structural Analysis Report
 Exhibit E – Mount Analysis
 Exhibit F – Power Density/RF Emissions Report

cc: American Tower Corporation, tower operator
 The Honorable William W. Dickinson, Jr., Mayor of the Town of Wallingford
 Kacie Hand, Town Planner of the Town of Wallingford
 AT&T Wireless PCS Inc, property owner

Exhibit A

Original Facility Approval



Town of Wallingford, Connecticut

JAMES C. FITZSIMMONS
CHAIRMAN - PLANNING & ZONING COMMISSION

LINDA A. BUSH
TOWN PLANNER

THOMAS M. TALBOT
ASSISTANT TOWN PLANNER

WALLINGFORD TOWN HALL
45 SOUTH MAIN STREET
WALLINGFORD, CT 06492
TELEPHONE (203) 294-2090

LEGAL NOTICE

The Wallingford Planning and Zoning Commission at a meeting held on June 13, 1994 voted to take the following actions. They voted to approve:

1. The application of SMART SMR for a Special Permit for mobile radio transmission facilities of 1,650 sq. ft. with a tower of 163 feet in height on 1.68 acres at 990 Northrup Road. Zoned IX. #407-94
2. The application of the Wallingford Board of Education for a Special Permit for two 900 sq. ft. modular classroom buildings, one to be located at Cook Hill School and one to be located at E.C. Stevens School. Zoned RU-40 (Cook Hill) and R-18 (E.C. Stevens). #409-94
3. The application of FIP for a Special Permit for a handicapped parking area at 5 Research Parkway. Zoned IX. #410-94
4. The application of Vecchitto for a 596 sq. ft. accessory apartment at 11 New Place Street. Zoned R-18. #208-94
5. The application of Verna for a 1,000 sq. ft. Change of Use from retail to restaurant at 101 N. Plains Industrial Road. Zoned I-40. #306-94
6. The application of Kenny Rogers Roasters for site plan approval for a 380 sq. ft. outdoor seating area at 1248 S. Broad St. Zoned CB-40. #209-94
7. The application of Legace for a 600 sq. ft. accessory apartment at 449 N. Branford Road. Zoned RU-120. #210-94

Several of the above were approved with stipulations.

WALLINGFORD PLANING & ZONING COMMISSION

BY: A.J. Namnoum 
A.J. NAMNOUM, SECRETARY

DATED AT WALLINGFORD:
June 14, 1994

PUBLICATION DATE:
June 18, 1994

printed on 100% recycled paper



Town of Wallingford, Connecticut

CONDITIONAL CERTIFICATE OF ZONING COMPLIANCE

DATE ISSUED 7-30-94 EXPIRATION DATE 3-30-95

ISSUED TO Smart SMR of New York

ISSUED FOR PREMISES AT 1000 Northrop Road

Mobile Radio Transmission Bldg

BUILDING PERMIT NUMBER 6577

DATE PLANS APPROVED BY WALLINGFORD PZC 7-21-94

THIS IS TO CERTIFY THAT THE NEW BUILDING OR STRUCTURE
 ADDITION
 CHANGE OF USE
 OTHER

IS IN COMPLIANCE WITH THE PROVISIONS OF THE WALLINGFORD ZONING REGULATIONS, CONDITIONAL ON ONE OR MORE OF THE FOLLOWING ITEMS BEING COMPLETED.

- LANDSCAPING, INCLUDING LAWN
- PAVED DRIVEWAY APRON
- GRAVELED TURNAROUND
- SCREENED OUTDOOR STORAGE
- LINED PARKING SPACES
- INSPECTION BY TOWN ENGINEER
- OTHER REQUIREMENTS OF THE ZONING REGULATIONS

ALL UNFINISHED ITEMS MUST BE COMPLETED WITHIN SIX MONTHS.

THIS CERTIFICATE IS ONLY VALID FOR SIX MONTHS. APPLICATION FOR A CERTIFICATE OF ZONING COMPLIANCE MUST BE MADE IN WRITING TO THE PLANNING DEPARTMENT PRIOR TO THE EXPIRATION OF THIS CERTIFICATE.

ISSUED BY *J. Busk*
TITLE *Town Planner*

TOWN OF WALLINGFORD CONNECTICUT

BUILDING DEPARTMENT
AS SOUTH MAIN STREET

TELEPHONE NO (203) 294-2105

BUILDING PERMIT

APPLICANT COPY

THIS PERMIT NOT VALID UNLESS
PROPERLY RECEIPTED BY CASHIER
VALIDATION

12503

APPLICANT W.S. Brewer, Inc. DATE 1/10 192000 PERMIT NO. 12503

PERMIT TO NO STORY 1 (PROPOSED USE) REPAIR ZONING DISTRICT CT

AT (LOCATION) 13 KENNEDY (STREET) 11d

BETWEEN W. MAIN (CROSS STREET) AND W. MAIN (CROSS STREET)

SUBDIVISION LOT 13 BLOCK 11d LOT SIZE 100 FT. BY 100 FT.

BUILDING IS TO BE 1 FT. WIDE BY 1 FT. LONG BY 1 FT. IN HEIGHT AND SHALL CONFORM IN CONSTRUCTION

TO TYPE REPAIR USE GROUP REPAIR BASEMENT WALLS OR FOUNDATION NO (TYPE)

REMARKS: TO DO COMMERCIAL REPAIRS TO EXISTING WORKSPACE WITH TYPICAL
15 YEAR WARR.

AREA OR VOLUME 100 (CUBIC/SQUARE FEET) ESTIMATED COST \$15000. PERMIT FEE \$1500.

OWNER W.S. Brewer, Inc. BUILDING DEPT. CT

ADDRESS 100 Rogers Street W. Wallingford, Vt. BY CT

BUILDING PERMIT

JOB WEATHER CARD

12503

APPLICANT W.S. General, Inc. DATE 1/16 19 2000 PERMIT NO. 12503
 ADDRESS 100 LEXINGTON PARK, W. BETHESDA, CT.
(NO.) (STREET) (CONTR'S LICENSE)

PERMIT TO _____ (TYPE OF IMPROVEMENT) _____ (NO.) _____ STORY _____ (PROPOSED USE) _____ NUMBER OF DWELLING UNITS _____

AT (LOCATION) 113 New York St. ZONING DISTRICT _____
(NO.) (STREET)

BETWEEN _____ (CROSS STREET) AND _____ (CROSS STREET)

SUBDIVISION _____ LOT _____ BLOCK _____ LOT SIZE _____

BUILDING IS TO BE _____ FT. WIDE BY _____ FT. LONG BY _____ FT. IN HEIGHT AND SHALL CONFORM IN CONSTRUCTION

TO TYPE _____ USE GROUP _____ BASEMENT WALLS OR FOUNDATION _____ (TYPE)

REMARKS: Interior Renovation of existing Warehouse Building
175 Year Old

AREA OR VOLUME _____ (CUBIC/SQUARE FEET) ESTIMATED COST \$ 23,000 PERMIT FEE \$ 19.55
78,500

OWNER W.S. General, Inc. BUILDING DEPT. CT.
 ADDRESS 100 Lexington Park, W. Bethesda, Md. BY _____

THIS PERMIT CONVEYS NO RIGHT TO OCCUPY ANY STREET, ALLEY OR SIDEWALK OR ANY PART THEREOF, EITHER TEMPORARILY OR PERMANENTLY. ENCROACHMENTS ON PUBLIC PROPERTY, NOT SPECIFICALLY PERMITTED UNDER THE BUILDING CODE, MUST BE APPROVED BY THE JURISDICTION. STREET OR ALLEY GRADES AS WELL AS DEPTH AND LOCATION OF PUBLIC SEWERS MAY BE OBTAINED FROM THE DEPARTMENT OF PUBLIC WORKS. THE ISSUANCE OF THIS PERMIT DOES NOT RELEASE THE APPLICANT FROM THE CONDITIONS OF ANY APPLICABLE SUBDIVISION RESTRICTIONS.

- MINIMUM OF THREE CALLED INSPECTIONS REQUIRED FOR ALL CONSTRUCTION WORK:
- FOUNDATIONS OR FOOTINGS
 - PRIOR TO COVERING STRUCTURAL MEMBERS (READY FOR LATH OR FINISH COVERING)
 - FINAL INSPECTION BEFORE OCCUPANCY

APPROVED PLANS MUST BE RETAINED ON JOB AND THIS CARD KEPT POSTED UNTIL FINAL INSPECTION HAS BEEN MADE. WHERE A CERTIFICATE OF OCCUPANCY IS REQUIRED, SUCH BUILDING SHALL NOT BE OCCUPIED UNTIL FINAL INSPECTION HAS BEEN MADE.

WHERE APPLICABLE SEPARATE PERMITS ARE REQUIRED FOR ELECTRICAL, PLUMBING AND MECHANICAL INSTALLATIONS.

POST THIS CARD SO IT IS VISIBLE FROM STREET

BUILDING INSPECTION APPROVALS	PLUMBING INSPECTION APPROVALS	ELECTRICAL INSPECTION APPROVALS
1	1	1
2	2	2
3	HEATING INSPECTING APPROVALS	REFRIGERATION INSPECTION APPROVALS
	1	1
OTHER _____	2	2

WORK SHALL NOT PROCEED UNTIL THE INSPECTOR HAS APPROVED THE VARIOUS STAGES OF CONSTRUCTION.

PERMIT WILL BECOME NULL AND VOID IF CONSTRUCTION WORK IS NOT STARTED WITHIN SIX MONTHS OF DATE THE PERMIT IS ISSUED AS NOTED ABOVE.

INSPECTIONS INDICATED ON THIS CARD CAN BE ARRANGED FOR BY TELEPHONE OR WRITTEN NOTIFICATION.

Exhibit B

Property Card

CURRENT OWNER			TOPO	UTILITIES	STRT / ROAD	LOCATION	CURRENT ASSESSMENT				
AT&T WIRELESS PCS INC C/O AT&T MOBILITY 754 PEACHTREE ST NE 16TH FLOOR ATLANTA GA 30308			1 Level	2 Public Water	1 Paved	5 Industrial	Description	Code	Appraised	Assessed	6148 WALLINGFORD, CT
							UTL BLDG	4-2	86,700	60,700	
SUPPLEMENTAL DATA											
Alt Prcl ID 009001003004			Census: Old MBLU		P/Z MAP # ENG MAP Easement						
TC MAP #			TC MAP #		Town Line						
Record Lot			Record Lot		IND PARK II						
GIS ID 133242			GIS ID 133242		Assoc Pid#						
							Total	86,700	60,700		

VISION

RECORD OF OWNERSHIP			BK-VOL/PAGE	SALE DATE	Q/U	V/I	SALE PRICE	VC	PREVIOUS ASSESSMENTS (HISTORY)					
AT&T WIRELESS PCS INC			0000 0000	01-01-1900	U	V	0		Year	Code	Assessed	Year	Code	Assessed
									2019	4-2	58,700	2018	4-2	58,700
										4-3	2,000		4-3	2,000
									Total	60700	Total	60700	Total	60700

EXEMPTIONS			OTHER ASSESSMENTS					
Year	Code	Description	Amount	Code	Description	Number	Amount	Comm Int
Total			0.00					

This signature acknowledges a visit by a Data Collector or Assessor

ASSESSING NEIGHBORHOOD			APPRAISED VALUE SUMMARY			
Nbhd	Nbhd Name	B	Tracing	Batch		
I1						
NOTES						
SITE# 302538						
PREFAB EQUIPMENT BLDG						
VALUED @ \$36000						
NO LAND - CELL TOWER ONLY						
4 ANTENNA SITES						
Appraised Bldg. Value (Card)					83,900	
Appraised Xf (B) Value (Bldg)					0	
Appraised Ob (B) Value (Bldg)					2,800	
Appraised Land Value (Bldg)					0	
Special Land Value					0	
Total Appraised Parcel Value					86,700	
Valuation Method					C	
Total Appraised Parcel Value					86,700	

BUILDING PERMIT RECORD								VISIT / CHANGE HISTORY						
Permit Id	Issue Date	Type	Description	Amount	Insp Date	% Comp	Date Comp	Comments	Date	Id	Type	Is	Cd	Purpose/Result
32961	10-25-2018	CM	Commercial	20,000	02-06-2019	100		3 ANTENNAS	02-06-2019	KC	02		63	Permit Check - No Measur
32632	07-18-2018	CM	Commercial	25,000	08-14-2018	100		UPGRADE CELL TOWER	08-14-2018	KC	02		63	Permit Check - No Measur
30441	04-25-2016	CM	Commercial	25,000	08-26-2016	100		CHANGE 3 ANTENNAS	08-26-2016	KC	02		63	Permit Check - No Measur
30289	03-09-2016	CM	Commercial	15,000	08-26-2016	100		ATTACH ANTENNAE TO EXI	09-27-2013	TH	02		63	Permit Check - No Measur
27905	07-18-2013	CM	Commercial	15,000	09-27-2013	100		T-MOBILE- REPL EXISITING	07-11-2013	TH	02		63	Permit Check - No Measur
27658	05-13-2013	CM	Commercial	15,000	07-11-2013	100		RENOVATE TEL CABINETS	06-07-2012	KC			46	Photo
12503	01-10-2000	CM	Commercial	73,000		100		CELL TOWER EQUIPMENT B	05-17-2010	DT	03		29	Field Review

LAND LINE VALUATION SECTION																	
B	Use Code	Description	Zone	Land Type	Land Units	Unit Price	I. Factor	Site Index	Cond.	Nbhd.	Nhbd Adj	Notes	Location Adjustment	Adj Unit Pric	Land Value		
1	4310	TEL REL TW M	IX		0 SF	0	1.00000	0	1.00		1.000		0	0	0		
Total Card Land Units					0.000	AC	Parcel Total Land Area: 0.0000					Total Land Value					0

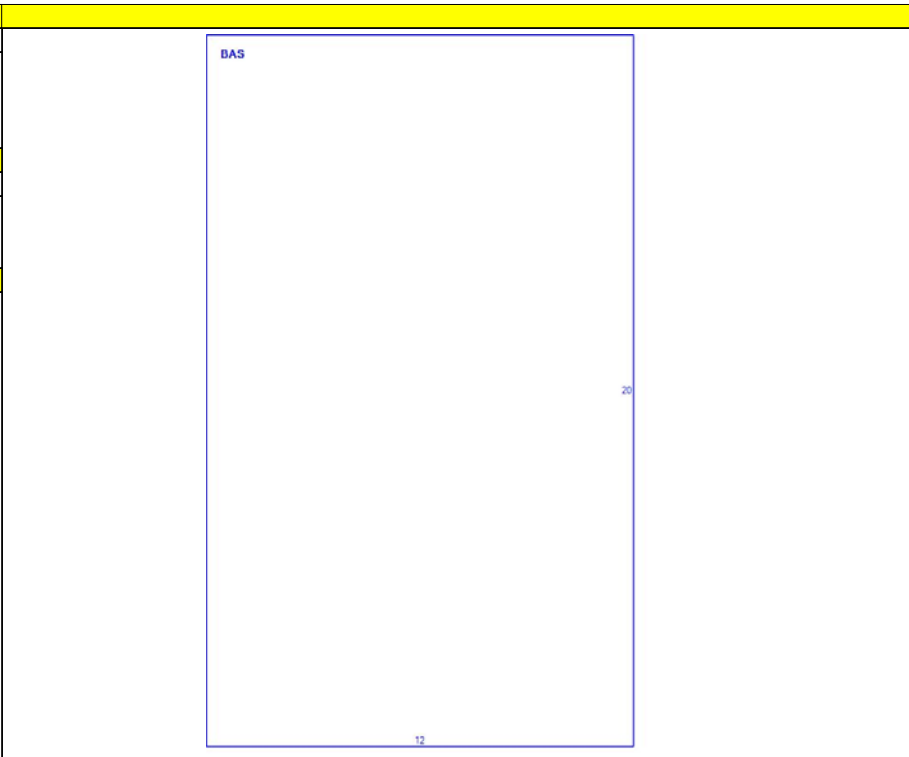
CONSTRUCTION DETAIL			CONSTRUCTION DETAIL (CONTINUED)		
Element	Cd	Description	Element	Cd	Description
Style:	406	Telephone Building			
Model	96	Ind/Comm			
Grade	C				
Stories:	1				
Occupancy	1.00				
Exterior Wall 1	22	Precast Panel			
Exterior Wall 2					
Roof Structure	01	Flat			
Roof Cover	04	Tar & Gravel			
Interior Wall 1	01	Minim/Masonry			
Interior Wall 2					
Interior Floor 1	03	Concr-Finished			
Interior Floor 2					
Heating Fuel	04	Electric			
Heating Type	03	Hot Air-no Duc			
AC Type	02	Heat Pump			
Bldg Use	4310	TEL REL TW M96			
Total Rooms					
Total Bedrms	00				
Total Baths	0				
Heat/AC	01	Heat/AC Pkgs			
Frame Type	03	Masonry			
Baths/Plumbing	00	None			
Ceiling/Wall	00	None			
Rooms/Prtns	01	Light			
Wall Height	10.00				
% Comn Wall	0.00				
1st Floor Use:	4310				

MIXED USE		
Code	Description	Percentage
4310	TEL REL TW M96	100
		0
		0

COST / MARKET VALUATION	
RCN	42,168
Year Built	2000
Effective Year Built	
Depreciation Code	A
Remodel Rating	
Year Remodeled	
Depreciation %	14
Functional Obsol	0
External Obsol	0
Trend Factor	1
Condition	
Condition %	
Percent Good	86
RCNLD	36,300
Dep % Ovr	
Dep Ovr Comment	
Misc Imp Ovr	
Misc Imp Ovr Comment	
Cost to Cure Ovr	
Cost to Cure Ovr Comment	

OB - OUTBUILDING & YARD ITEMS(L) / XF - BUILDING EXTRA FEATURES(B)										
Code	Description	L/B	Units	Unit Price	Yr Blt	Cond. Cd	% Good	Grade	Grade Adj	Appr. Value
FN3	Fence-6' Chain	L	280	11.00	2001	E	90	C	1.00	2,800

BUILDING SUB-AREA SUMMARY SECTION							
Code	Description	Living Area	Floor Area	Eff Area	Unit Cost	Undeprec Value	
BAS	First Floor	240	240	240	175.70	42,168	
Ttl Gross Liv / Lease Area		240	240	240		42,168	



CURRENT OWNER		TOPO		UTILITIES		STRT / ROAD		LOCATION		CURRENT ASSESSMENT										
AT&T WIRELESS PCS INC C/O AT&T MOBILITY 754 PEACHTREE ST NE 16TH FLOOR ATLANTA GA 30308		1	Level	2	Public Water	1	Paved	5	Industrial	Description	Code	Appraised	Assessed							
										UTL BLDG	4-2	86,700	60,700							
		SUPPLEMENTAL DATA				Alt Prcl ID 009001003004		P/Z MAP #												
				Census: Old MBLU		ENG MAP														
				TC MAP #		Easement														
				Record Lot		Town Line														
				GIS ID 133242		IND PARK II														
				Assoc Pid#																
										Total	86,700	60,700								
RECORD OF OWNERSHIP				BK-VOL/PAGE		SALE DATE		Q/U	V/I	SALE PRICE		VC	PREVIOUS ASSESSMENTS (HISTORY)							
AT&T WIRELESS PCS INC				0000	0000	01-01-1900	U	V	0			Year	Code	Assessed	Year	Code	Assessed	Year	Code	Assessed
												2019	4-2	58,700	2018	4-2	58,700	2017	4-2	58,700
													4-3	2,000		4-3	2,000		4-3	2,000
												Total	60700	Total	60700	Total	60700	Total	60700	
EXEMPTIONS				OTHER ASSESSMENTS								This signature acknowledges a visit by a Data Collector or Assessor								
Year	Code	Description		Amount		Code	Description	Number	Amount	Comm Int										
Total				0.00																
ASSESSING NEIGHBORHOOD												APPRAISED VALUE SUMMARY								
Nbhd		Nbhd Name				B		Tracing		Batch		Appraised Bldg. Value (Card) 83,900								
I1												Appraised Xf (B) Value (Bldg) 0								
												Appraised Ob (B) Value (Bldg) 2,800								
												Appraised Land Value (Bldg) 0								
												Special Land Value 0								
												Total Appraised Parcel Value 86,700								
												Valuation Method C								
												Total Appraised Parcel Value 86,700								
BUILDING PERMIT RECORD												VISIT / CHANGE HISTORY								
Permit Id	Issue Date	Type	Description	Amount	Insp Date	% Comp	Date Comp	Comments				Date	Id	Type	Is	Cd	Purpose/Result			
LAND LINE VALUATION SECTION																				
B	Use Code	Description	Zone	Land Type	Land Units	Unit Price	I. Factor	Site Index	Cond.	Nbhd.	Nhbd Adj	Notes	Location Adjustment	Adj Unit Pric	Land Value					
2	4310	TEL REL TW M	IX		0 SF	0	1.00000	0	1.00		1.000			0	0					
Total Card Land Units					0.000	AC	Parcel Total Land Area: 0.0000					Total Land Value					0			

VISION

6148
 WALLINGFORD, CT

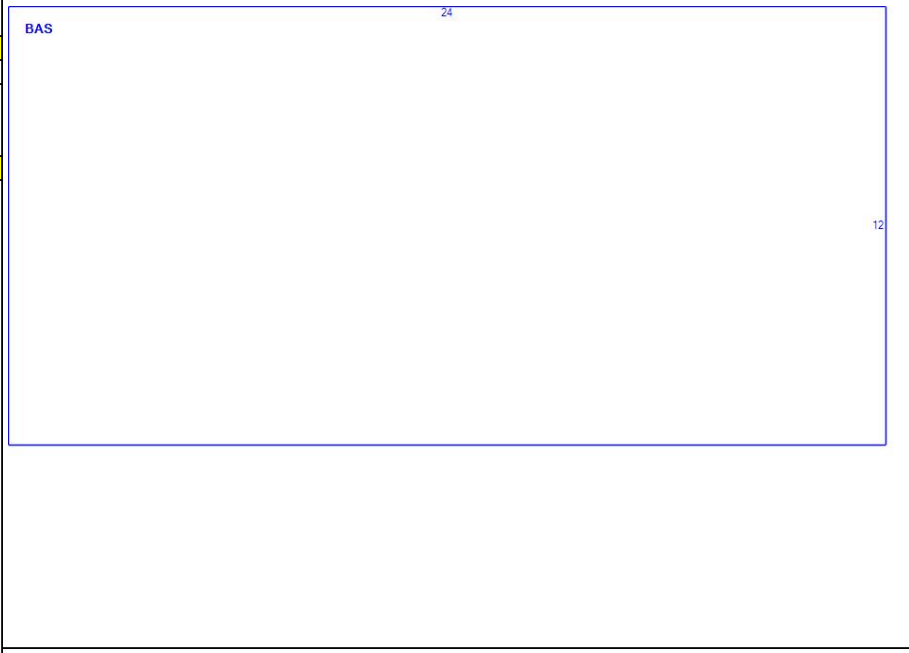
CONSTRUCTION DETAIL			CONSTRUCTION DETAIL (CONTINUED)		
Element	Cd	Description	Element	Cd	Description
Style:	406	Telephone Building			
Model	96	Ind/Comm			
Grade	C				
Stories:	1				
Occupancy	1.00				
Exterior Wall 1	22	Precast Panel			
Exterior Wall 2					
Roof Structure	01	Flat			
Roof Cover	04	Tar & Gravel			
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Interior Floor 1	03	Concr-Finished			
Interior Floor 2					
Heating Fuel	04	Electric			
Heating Type	03	Hot Air-no Duc			
AC Type	02	Heat Pump			
Bldg Use	4310	TEL REL TW M96			
Total Rooms					
Total Bedrms					
Total Baths					
Heat/AC	01	Heat/AC Pkgs			
Frame Type	03	Masonry			
Baths/Plumbing	00	None			
Ceiling/Wall	00	None			
Rooms/Prtns	01	Light			
Wall Height	10.00				
% Comn Wall					
1st Floor Use:					

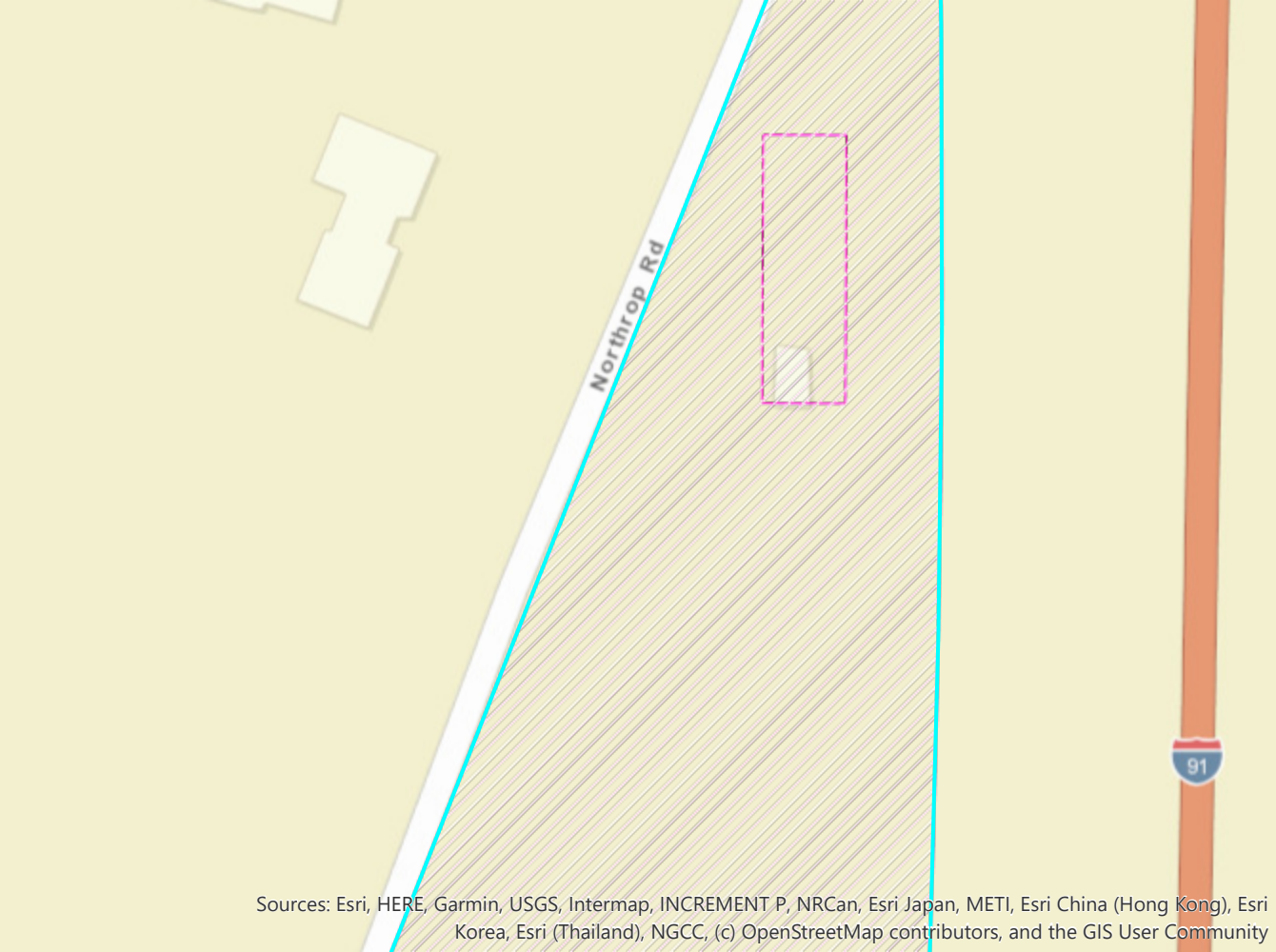
MIXED USE		
Code	Description	Percentage
4310	TEL REL TW M96	100
		0
		0

COST / MARKET VALUATION	
RCN	50,602
Year Built	2009
Effective Year Built	
Depreciation Code	A
Remodel Rating	
Year Remodeled	
Depreciation %	6
Functional Obsol	
External Obsol	
Trend Factor	1
Condition	
Condition %	
Percent Good	94
RCNLD	47,600
Dep % Ovr	
Dep Ovr Comment	
Misc Imp Ovr	
Misc Imp Ovr Comment	
Cost to Cure Ovr	
Cost to Cure Ovr Comment	

OB - OUTBUILDING & YARD ITEMS(L) / XF - BUILDING EXTRA FEATURES(B)										
Code	Description	L/B	Units	Unit Price	Yr Blt	Cond. Cd	% Good	Grade	Grade Adj	Appr. Value

BUILDING SUB-AREA SUMMARY SECTION							
Code	Description	Living Area	Floor Area	Eff Area	Unit Cost	Undeprec Value	
BAS	First Floor	288	288	288	175.70	50,602	
Ttl Gross Liv / Lease Area		288	288	288		50,602	





Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community

Exhibit C

Construction Drawings

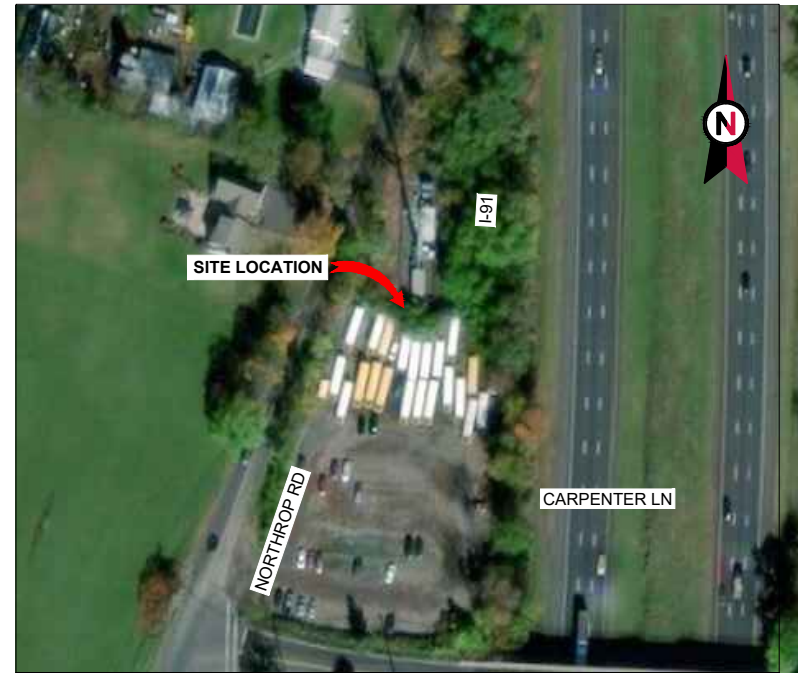


VICINITY MAP



AMERICAN TOWER®

ATC SITE NAME: PARSONAGE HILL AKA WALLIN
 ATC SITE NUMBER: 302538
 T-MOBILE SITE NAME: WALLINGFORD/ I-91/ X15/ G
 T-MOBILE SITE NUMBER: CT11054A
 SITE ADDRESS: 922 NORTHROP ROAD
 WALLINGFORD, CT 06492



LOCATION MAP

AMERICAN TOWER®
A.T. ENGINEERING SERVICE, PLLC
 3500 REGENCY PARKWAY
 SUITE 100
 CARY, NC 27518
 PHONE: (919) 468-0112
 COA: PEC.0001553

THESE DRAWINGS AND/OR THE ACCOMPANYING SPECIFICATION AS INSTRUMENTS OR SERVICE ARE THE EXCLUSIVE PROPERTY OF AMERICAN TOWER. THEIR USE AND PUBLICATION SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY ARE PREPARED. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO AMERICAN TOWER OR THE SPECIFIED CARRIER IS STRICTLY PROHIBITED. TITLE TO THESE DOCUMENTS SHALL REMAIN THE PROPERTY OF AMERICAN TOWER WHETHER OR NOT THE PROJECT IS EXECUTED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. CONTRACTOR(S) MUST VERIFY ALL DIMENSIONS AND ADVISE AMERICAN TOWER OF ANY DISCREPANCIES. ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION ON FILE WITH AMERICAN TOWER.

REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	NG	07/29/20
1	GROUND CHANGE	NG	08/14/20

**T-MOBILE ANCHOR ANTENNA AMENDMENT PLAN
 67D5A992DB HYBRID CONFIGURATION**

ATC SITE NUMBER:
302538
 ATC SITE NAME:
PARSONAGE HILL AKA WALLIN
 T-MOBILE SITE NAME:
WALLINGFORD/ I-91/ X15/ G
 SITE ADDRESS:
 922 NORTHROP ROAD
 WALLINGFORD, CT 06492



DATE DRAWN:	07/29/20
ATC JOB NO:	13251802
CUSTOMER ID:	WALLINGFORD/ I-91/ X15/ G
CUSTOMER #:	CT11054A

TITLE SHEET

SHEET NUMBER:
G-001

REVISION:
1

COMPLIANCE CODE	PROJECT SUMMARY	PROJECT DESCRIPTION	SHEET INDEX				
ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNMENT AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES. 1. INTERNATIONAL BUILDING CODE (IBC) 2. NATIONAL ELECTRIC CODE (NEC) 3. LOCAL BUILDING CODE 4. CITY/COUNTY ORDINANCES	<u>SITE ADDRESS:</u> 922 NORTHROP ROAD WALLINGFORD, CT 06492 COUNTY: NEW HAVEN <u>GEOGRAPHIC COORDINATES:</u> LATITUDE: 41.48934722 LONGITUDE: -72.76825278 GROUND ELEVATION: 383' AMSL	THE PROPOSED PROJECT INCLUDES MODIFYING GROUND BASED AND TOWER MOUNTED EQUIPMENT AS INDICATED PER BELOW: <u>TOWER WORK:</u> REMOVE (3) ANTENNA(S), (6) 1-5/8" COAX CABLE(S) AND (1) 1-5/8" HYBRID CABLES INSTALL (6) ANTENNA(S), (3) RRH(S), (3) 1-1/4" HYBRID CABLE(S) AND PROPOSED PLATFORM MOUNT EXISTING (6) ANTENNA(S), (3) TTA(S), (3) RRH(S), (6) 1-5/8" COAX CABLES, AND (3) 1-1/4" HYBRID CABLE(S) TO REMAIN <u>GROUND WORK:</u> INSTALL (1) 6160 CABINET, (1) B160 BATTERY CABINET, (3) BB 6630, AND (1) BB 6648 EXISTING (1) 6102 CABINET TO REMAIN	SHEET NO:	DESCRIPTION:	REV:	DATE:	BY:
	<u>PROJECT TEAM</u> <u>TOWER OWNER:</u> AMERICAN TOWER 10 PRESIDENTIAL WAY WOBURN, MA 01801 <u>ENGINEER:</u> ATC TOWER SERVICES, LLC 3500 REGENCY PKWY STE 100 CARY, NC 27518 <u>PROPERTY OWNER:</u> AT&T WIRELESS PCS INC 1000 NORTHROP RD WALLINGFORD, CT 06492	<u>PROJECT NOTES</u> 1. THE FACILITY IS UNMANNED. 2. A TECHNICIAN WILL VISIT THE SITE APPROXIMATELY ONCE A MONTH FOR ROUTINE INSPECTION AND MAINTENANCE. 3. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT LAND DISTURBANCE OR EFFECT OF STORM WATER DRAINAGE. 4. NO SANITARY SEWER, POTABLE WATER OR TRASH DISPOSAL IS REQUIRED. 5. HANDICAP ACCESS IS NOT REQUIRED.	G-001 TITLE SHEET G-002 GENERAL NOTES C-101 DETAILED SITE PLAN C-102 DETAILED GROUND PLAN C-201 TOWER ELEVATION C-401 ANTENNA INFORMATION & SCHEDULE C-501 CONSTRUCTION DETAILS E-501 GROUNDING DETAILS R-601 SUPPLEMENTAL R-602 SUPPLEMENTAL R-603 SUPPLEMENTAL R-604 SUPPLEMENTAL R-605 SUPPLEMENTAL R-606 SUPPLEMENTAL R-607 SUPPLEMENTAL R-608 SUPPLEMENTAL				
<u>UTILITY COMPANIES</u> POWER COMPANY: WALLINGFORD ELECTRIC 24 HOURS EMERGENCIES PHONE: (203) 265-5055 TELEPHONE COMPANY: FRONTIER COMMUNICATIONS PHONE: (800) 376-6843	<u>PROJECT LOCATION DIRECTIONS</u> FROM HARTFORD I-91 SOUTH TO EXIT 15, RIGHT AT OFF RAMP AND THEN RIGHT AGAIN ONTO NORTHROP ROAD - FOLLOW TO SITE						



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GENERAL CONSTRUCTION NOTES:

1. OWNER FURNISHED MATERIALS, T-MOBILE "THE COMPANY" WILL PROVIDE AND THE CONTRACTOR WILL INSTALL
 - A. BTS EQUIPMENT FRAME (PLATFORM) AND ICEBRIDGE SHELTER (GROUND BUILD/CO-LOCATE ONLY)
 - B. AC/TELCO INTERFACE BOX (PPC)
 - C. ICE BRIDGE (CABLE TRAY WITH COVER) (GROUND BUILD/CO-LOCATE ONLY, GC TO FURNISH AND INSTALL FOR ROOFTOP INSTALLATION)
 - D. TOWERS, MONOPOLES
 - E. TOWER LIGHTING
 - F. GENERATORS & LIQUID PROPANE TANK
 - G. ANTENNA STANDARD BRACKETS, FRAMES AND PIPES FOR MOUNTING
 - H. ANTENNAS (INSTALLED BY OTHERS)
 - I. TRANSMISSION LINE
 - J. TRANSMISSION LINE JUMPERS
 - K. TRANSMISSION LINE CONNECTORS WITH WEATHERPROOFING KITS
 - L. TRANSMISSION LINE GROUND KITS
 - M. HANGERS
 - N. HOISTING GRIPS
 - O. BTS EQUIPMENT
2. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL OTHER MATERIALS FOR THE COMPLETE INSTALLATION OF THE SITE INCLUDING, BUT NOT LIMITED TO, SUCH MATERIALS AS FENCING, STRUCTURAL STEEL SUPPORTING SUB-FRAME FOR PLATFORM, ROOFING LABOR AND MATERIALS, GROUNDING RINGS, GROUNDING WIRES, COPPER-CLAD OR XIT CHEMICAL GROUND ROD(S), BUSS BARS, TRANSFORMERS AND DISCONNECT SWITCHES WHERE APPLICABLE, TEMPORARY ELECTRICAL POWER, CONDUIT, LANDSCAPING COMPOUND STONE, CRANES, CORE DRILLING, SLEEPERS AND RUBBER MATTING, REBAR, CONCRETE CAISSONS, PADS AND/OR AUGER MOUNTS, MISCELLANEOUS FASTENERS, CABLE TRAYS, NON-STANDARD ANTENNA FRAMES AND ALL OTHER MATERIAL AND LABOR REQUIRED TO COMPLETE THE JOB ACCORDING TO THE DRAWINGS AND SPECIFICATIONS. IT IS THE POSITION OF T-MOBILE TO APPLY FOR PERMITTING AND CONTRACTOR RESPONSIBLE FOR PICKUP AND PAYMENT OF REQUIRED PERMITS.
3. ALL WORK SHALL CONFORM TO ALL CURRENT APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING ANSIEIA/TIA-222, AND COMPLY WITH ATC CONSTRUCTION SPECIFICATIONS.
4. CONTRACTOR SHALL CONTACT LOCAL 811 FOR IDENTIFICATION OF UNDERGROUND UTILITIES PRIOR TO START OF CONSTRUCTION.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED INSPECTIONS.
6. ALL DIMENSIONS TO, OF, AND ON EXISTING BUILDINGS, DRAINAGE STRUCTURES, AND SITE IMPROVEMENTS SHALL BE VERIFIED IN FIELD BY CONTRACTOR WITH ALL DISCREPANCIES REPORTED TO THE ENGINEER.
7. DO NOT CHANGE SIZE OR SPACING OF STRUCTURAL ELEMENTS.
8. DETAILS SHOWN ARE TYPICAL; SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.
9. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
10. CONTRACTOR SHALL BRACE STRUCTURES UNTIL ALL STRUCTURAL ELEMENTS NEEDED FOR STABILITY ARE INSTALLED. THESE ELEMENTS ARE AS FOLLOWS: LATERAL BRACING, ANCHOR BOLTS, ETC.
11. CONTRACTOR SHALL DETERMINE EXACT LOCATION OF EXISTING UTILITIES, GROUNDS DRAINS, DRAIN PIPES, VENTS, ETC. BEFORE COMMENCING WORK.
12. INCORRECTLY FABRICATED, DAMAGED, OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE T-MOBILE REP PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH REMEDIAL ACTION SHALL REQUIRE WRITTEN APPROVAL BY THE T-MOBILE REP PRIOR TO PROCEEDING.
13. EACH CONTRACTOR SHALL COOPERATE WITH THE T-MOBILE REP, AND COORDINATE HIS WORK WITH THE WORK OF OTHERS.
14. CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED BY CONSTRUCTION OF THIS PROJECT TO MATCH EXISTING PRE-CONSTRUCTION CONDITIONS TO THE SATISFACTION OF THE T-MOBILE CONSTRUCTION MANAGER.
15. ALL CABLE/CONDUIT ENTRY/EXIT PORTS SHALL BE WEATHERPROOFED DURING INSTALLATION USING A SILICONE SEALANT.
16. WHERE EXISTING CONDITIONS DO NOT MATCH THOSE SHOWN IN THIS PLAN SET, CONTRACTOR SHALL NOTIFY THE T-MOBILE REP AND ENGINEER OF RECORD IMMEDIATELY.
17. CONTRACTOR SHALL ENSURE ALL SUBCONTRACTORS ARE PROVIDED WITH A COMPLETE AND CURRENT SET OF DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.
18. CONTRACTOR SHALL REMOVE ALL RUBBISH AND DEBRIS FROM THE SITE AT THE END OF EACH DAY.
19. CONTRACTOR SHALL COORDINATE WORK SCHEDULE WITH AMERICAN TOWER CORPORATION (ATC) AND TAKE PRECAUTIONS TO MINIMIZE IMPACT AND DISRUPTION OF OTHER OCCUPANTS OF THE FACILITY.
20. CONTRACTOR SHALL FURNISH T-MOBILE AND AMERICAN TOWER CORPORATION (ATC) WITH A PDF MARKED UP AS-BUILT SET OF DRAWINGS UPON COMPLETION OF WORK.
21. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH T-MOBILE REP TO DETERMINE WHAT, IF ANY, ITEMS WILL BE PROVIDED. ALL ITEMS NOT PROVIDED SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR. CONTRACTOR WILL INSTALL ALL ITEMS PROVIDED.

22. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH T-MOBILE REP TO DETERMINE IF ANY PERMITS WILL BE OBTAINED BY CONTRACTOR. ALL REQUIRED PERMITS NOT OBTAINED BY T-MOBILE MUST BE OBTAINED, AND PAID FOR, BY THE CONTRACTOR.
23. CONTRACTOR SHALL INSTALL ALL SITE SIGNAGE IN ACCORDANCE WITH T-MOBILE SPECIFICATIONS AND REQUIREMENTS.
24. CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS TO T-MOBILE FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
25. ALL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND LOCATED ACCORDING TO T-MOBILE SPECIFICATIONS, AND AS SHOWN IN THESE PLANS.
26. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
27. CONTRACTOR SHALL NOTIFY T-MOBILE REP A MINIMUM OF 48 HOURS IN ADVANCE OF POURING CONCRETE OR BACKFILLING ANY UNDERGROUND UTILITIES, FOUNDATIONS OR SEALING ANY WALL, FLOOR OR ROOF PENETRATIONS FOR ENGINEERING REVIEW AND APPROVAL.
28. CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SAFETY INCLUDING COMPLIANCE WITH ALL APPLICABLE OSHA STANDARDS AND RECOMMENDATIONS AND SHALL PROVIDE ALL NECESSARY SAFETY DEVICES INCLUDING PPE AND PPM AND CONSTRUCTION DEVICES SUCH AS WELDING AND FIRE PREVENTION, TEMPORARY SHORING, SCAFFOLDING, TRENCH BOXES/SLOPING, BARRIERS, ETC.
29. THE CONTRACTOR SHALL PROTECT AT HIS OWN EXPENSE, ALL EXISTING FACILITIES AND SUCH OF HIS NEW WORK LIABLE TO INJURY DURING THE CONSTRUCTION PERIOD. ANY DAMAGE CAUSED BY NEGLIGENCE ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, OR BY THE ELEMENTS DUE TO NEGLIGENCE ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, EITHER TO THE EXISTING WORK, OR TO HIS WORK OR THE WORK OF ANY OTHER CONTRACTOR, SHALL BE REPAIRED AT HIS EXPENSE TO THE OWNER'S SATISFACTION.
30. ALL WORK SHALL BE INSTALLED IN A FIRST CLASS, NEAT AND WORKMANLIKE MANNER BY MECHANICS SKILLED IN THE TRADE INVOLVED. THE QUALITY OF WORKMANSHIP SHALL BE SUBJECT TO THE APPROVAL OF THE T-MOBILE REP. ANY WORK FOUND BY THE T-MOBILE REP TO BE OF INFERIOR QUALITY AND/OR WORKMANSHIP SHALL BE REPLACED AND/OR REWORKED AT CONTRACTOR EXPENSE UNTIL APPROVAL IS OBTAINED.
31. IN ORDER TO ESTABLISH STANDARDS OF QUALITY AND PERFORMANCE, ALL TYPES OF MATERIALS LISTED HEREINAFTER BY MANUFACTURER'S NAMES AND/OR MANUFACTURER'S CATALOG NUMBER SHALL BE PROVIDED BY THESE MANUFACTURERS AS SPECIFIED.
32. T-MOBILE FURNISHED EQUIPMENT SHALL BE PICKED-UP AT THE T-MOBILE WAREHOUSE, NO LATER THAN 48HR AFTER BEING NOTIFIED INSURED, STORED, UNCRATE, PROTECTED AND INSTALLED BY THE CONTRACTOR WITH ALL APPURTENANCES REQUIRED TO PLACE THE EQUIPMENT IN OPERATION, READY FOR USE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EQUIPMENT AFTER PICKING IT UP.
33. T-MOBILE OR HIS ARCHITECT/ENGINEER RESERVES THE RIGHT TO REJECT ANY EQUIPMENT OR MATERIALS WHICH, IN HIS OWN OPINION ARE NOT IN COMPLIANCE WITH THE CONTRACT DOCUMENTS, EITHER BEFORE OR AFTER INSTALLATION AND THE EQUIPMENT SHALL BE REPLACED WITH EQUIPMENT CONFORMING TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS BY THE CONTRACTOR AT NO COST TO T-MOBILE OR THEIR ARCHITECT/ENGINEER.

COAXIAL CABLE (NOT WITHIN BENDS)

SPECIAL CONSTRUCTION

ANTENNA INSTALLATION NOTES:

1. WORK INCLUDED:
 - A. ANTENNA AND COAXIAL CABLES ARE FURNISHED BY T-MOBILE UNDER A SEPARATE CONTRACT. THE CONTRACTOR SHALL ASSIST ANTENNA INSTALLATION CONTRACTOR IN TERMS OF COORDINATION AND SITE ACCESS. ERECTION SUBCONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF PERSONNEL AND
 - B. INSTALL ANTENNA AS INDICATE ON DRAWINGS AND T-MOBILE SPECIFICATIONS.
 - C. INSTALL GALVANIZED STEEL ANTENNA MOUNTS AS INDICATED ON DRAWINGS
 - D. INSTALL FURNISHED GALVANIZED STEEL OR ALUMINUM WAVEGUIDE AND PROVIDE PRINTOUT OF THAT TEST.
 - E. CONTRACTOR SHALL PROVIDE FOUR (4) SETS OF SWEEP TESTS USING ANRITZU-PACKARD 8713B RF SCALAR NETWORK ANALYZER. SUBMIT FREQUENCY DOMAIN REFLECTOMETER(FDR) TESTS RESULTS TO THE PROJECT MANAGER. SWEEP TESTS SHALL BE AS PER ATTACHED RFS "MINIMUM FIELD TESTING RECOMMENDED FOR ANTENNA AND HELIAX COAXIAL CABLE SYSTEMS" DATED 10/5/93. TESTING SHALL BE PERFORMED BY AN INDEPENDENT TESTING SERVICE AND BE BOUND AND SUBMITTED WITHIN ONE WEEK OF WORK COMPLETION.
 - F. INSTALL COAXIAL CABLES AND TERMINATING BETWEEN ANTENNAS AND EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. WEATHERPROOF ALL CONNECTIONS BETWEEN THE ANTENNA AND EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. TERMINATE ALL COAXIAL CABLE THREE (3) FEET IN EXCESS OF ENTRY PORT LOCATION UNLESS OTHERWISE STATED.
 - G. ANTENNA AND COAXIAL CABLE GROUNDING:
2. ALL EXTERIOR #6 GREED GROUND WIRE "DAISY CHAIN" CONNECTIONS ARE TO BE WEATHER SEALED WITH RFS CONNECTORS/SPLICE WEATHERPROOFING KIT #221213 OR EQUAL.
3. ALL COAXIAL CABLE GROUNDING KITS ARE TO BE INSTALLED ON STRAIGHT RUNS OF

ALL DISCREPANCIES FROM WHAT IS SHOWN ON THESE CONSTRUCTION DRAWINGS SHALL BE COMMUNICATED TO ATC ENGINEERING IMMEDIATELY FOR CORRECTION OR RE-DESIGN. FAILURE TO COMMUNICATE DIRECTLY WITH ATC ENGINEERING OR ANY CHANGES FROM THE DESIGN CONDUCTED WITHOUT PRIOR APPROVAL FROM ATC ENGINEERING SHALL BE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR.

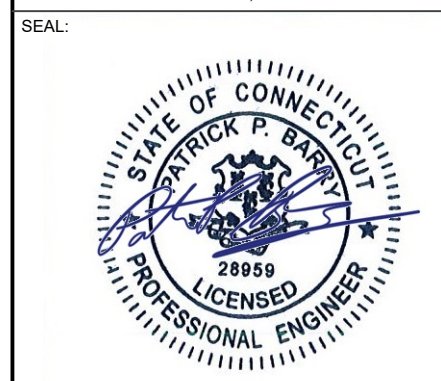


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REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	NG	07/29/20

ATC SITE NUMBER:
302538
 ATC SITE NAME:
PARSONAGE HILL AKA WALLIN
 T-MOBILE SITE NAME:
WALLINGFORD/ I-91/ X15/ G
 SITE ADDRESS:
 922 NORTHPROP ROAD
 WALLINGFORD, CT 06492



DATE DRAWN:	07/29/20
ATC JOB NO:	13251802
CUSTOMER ID:	WALLINGFORD/ I-91/ X15/ G
CUSTOMER #:	CT11054A

GENERAL NOTES

SHEET NUMBER: G-002	REVISION: 0
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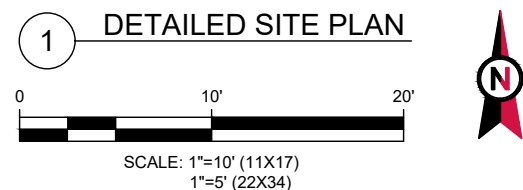
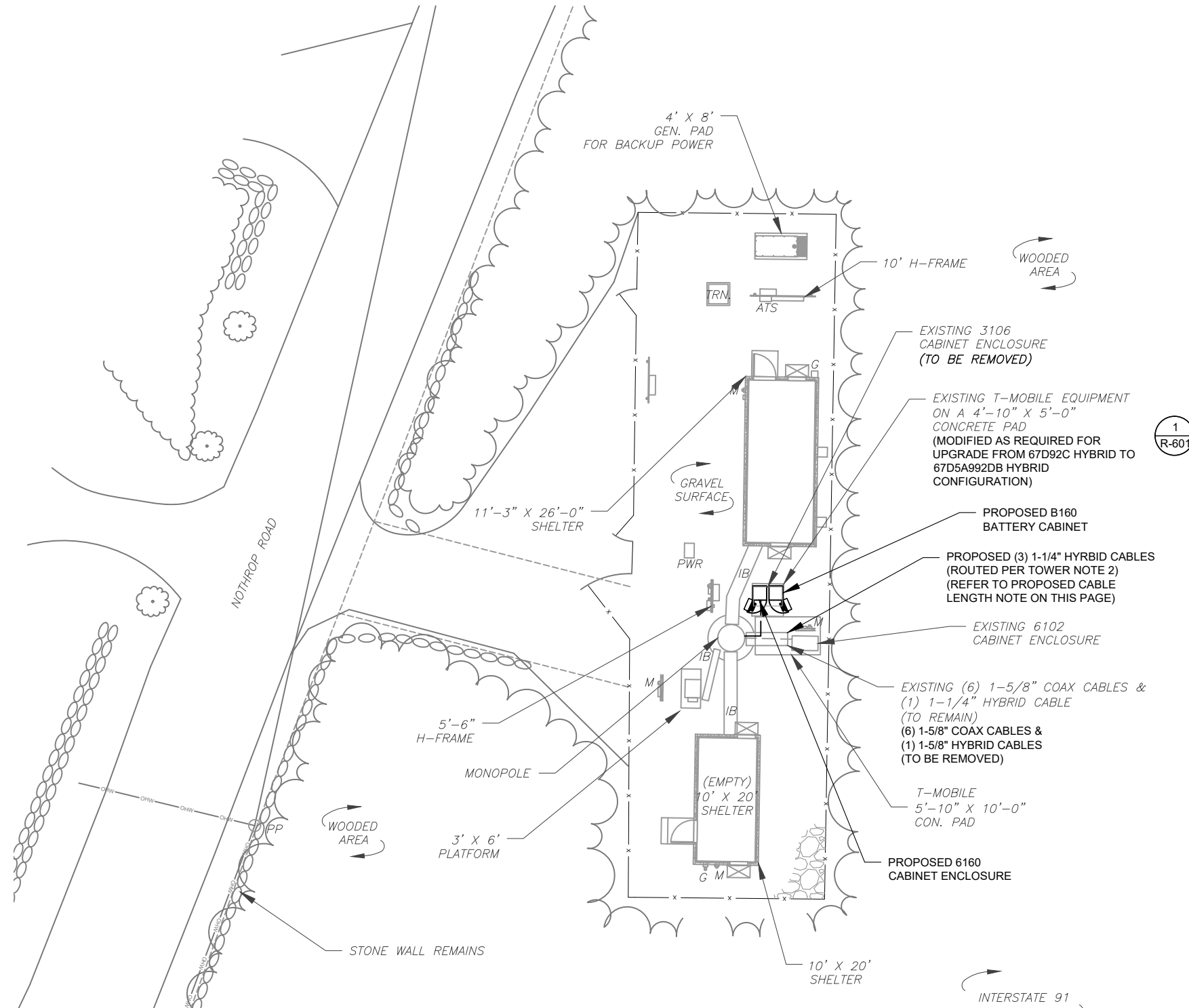
SITE PLAN NOTES:

1. THIS SITE PLAN REPRESENTS THE BEST PRESENT KNOWLEDGE AVAILABLE TO THE ENGINEER AT THE TIME OF THIS DESIGN. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO CONSTRUCTION AND VERIFY ALL EXISTING CONDITIONS RELATED TO THE SCOPE OF WORK FOR THIS PROJECT.
2. ICE BRIDGE, CABLE LADDER, COAX PORT, AND COAX CABLE ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL CONFIRM THE EXACT LOCATION OF ALL PROPOSED AND EXISTING EQUIPMENT AND STRUCTURES DEPICTED ON THIS PLAN. BEFORE UTILIZING EXISTING CABLE SUPPORTS, COAX PORTS, INSTALLING NEW PORTS OR ANY OTHER EQUIPMENT, CONTRACTOR SHALL VERIFY ALL ASPECTS OF THE COMPONENTS MEET THE ATC SPECIFICATIONS.
3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE T-MOBILE REPRESENTATIVE AND LOCAL UTILITY COMPANY FOR THE INSTALLATION OF CONDUITS, CONDUCTORS, BREAKERS, DISCONNECTS, OR ANY OTHER EQUIPMENT REQUIRED FOR ELECTRICAL SERVICE. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH LATEST EDITION OF THE STATE AND NATIONAL CODES, ORDINANCES AND REGULATIONS APPLICABLE TO THIS PROJECT.

LEGEND	
⊗	GROUNDING TEST WELL
ATS	AUTOMATIC TRANSFER SWITCH
B	BOLLARD
CSC	CELL SITE CABINET
D	DISCONNECT
E	ELECTRICAL
F	FIBER
GEN	GENERATOR
G	GENERATOR RECEPTACAL
HH, V	HAND HOLE, VAULT
IB	ICE BRIDGE
K	KENTROX BOX
LC	LIGHTING CONTROL
M	METER
PB	PULL BOX
PP	POWER POLE
T	TELCO
TRN	TRANSFORMER
x	CHAINLINK FENCE

PROPOSED CABLE LENGTH:

1. ESTIMATED LENGTH OF PROPOSED CABLE IS **175**. ESTIMATED LENGTH OF CABLE WAS PROVIDED BY CUSTOMER OR CALCULATED BY ADDING THE RAD CENTER AND THE DISTANCE FROM THE SHELTER ENTRY PLATE TO THE TOWER (ALONG THE ICE BRIDGE) AND A SAFETY FACTOR MEASUREMENT OF 15% (OF THE TWO PREVIOUS VALUES), CDS DEFER TO GREATEST CABLE LENGTH.
2. ROUTE PROPOSED CABLES ALONG SAME PATH AS EXISTING CABLES AND IN ACCORDANCE WITH STRUCTURAL ANALYSIS. IF ADEQUATE SPACE EXISTS, ROUTE CABLES THROUGH ENTRY PORT HOLE, UP INSIDE OF MONOPOLE, AND THROUGH EXIT PORT HOLE. IF ROUTING OUTSIDE THE MONOPOLE, ATTACH CABLES USING STAND-OFF ADAPTERS MOUNTED TO TOWER USING STAINLESS STEEL BANDING. ADEQUATELY SECURE CABLES USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAP-INS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER.






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REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	NG	07/29/20
1	GROUND CHANGE	NG	08/14/20

ATC SITE NUMBER:
302538
 ATC SITE NAME:
PARSONAGE HILL AKA WALLIN
 T-MOBILE SITE NAME:
WALLINGFORD/ I-91/ X15/ G
 SITE ADDRESS:
 922 NORTHRUP ROAD
 WALLINGFORD, CT 06492

SEAL:

DATE DRAWN:	07/29/20
ATC JOB NO:	13251802
CUSTOMER ID:	WALLINGFORD/ I-91/ X15/ G
CUSTOMER #:	CT11054A

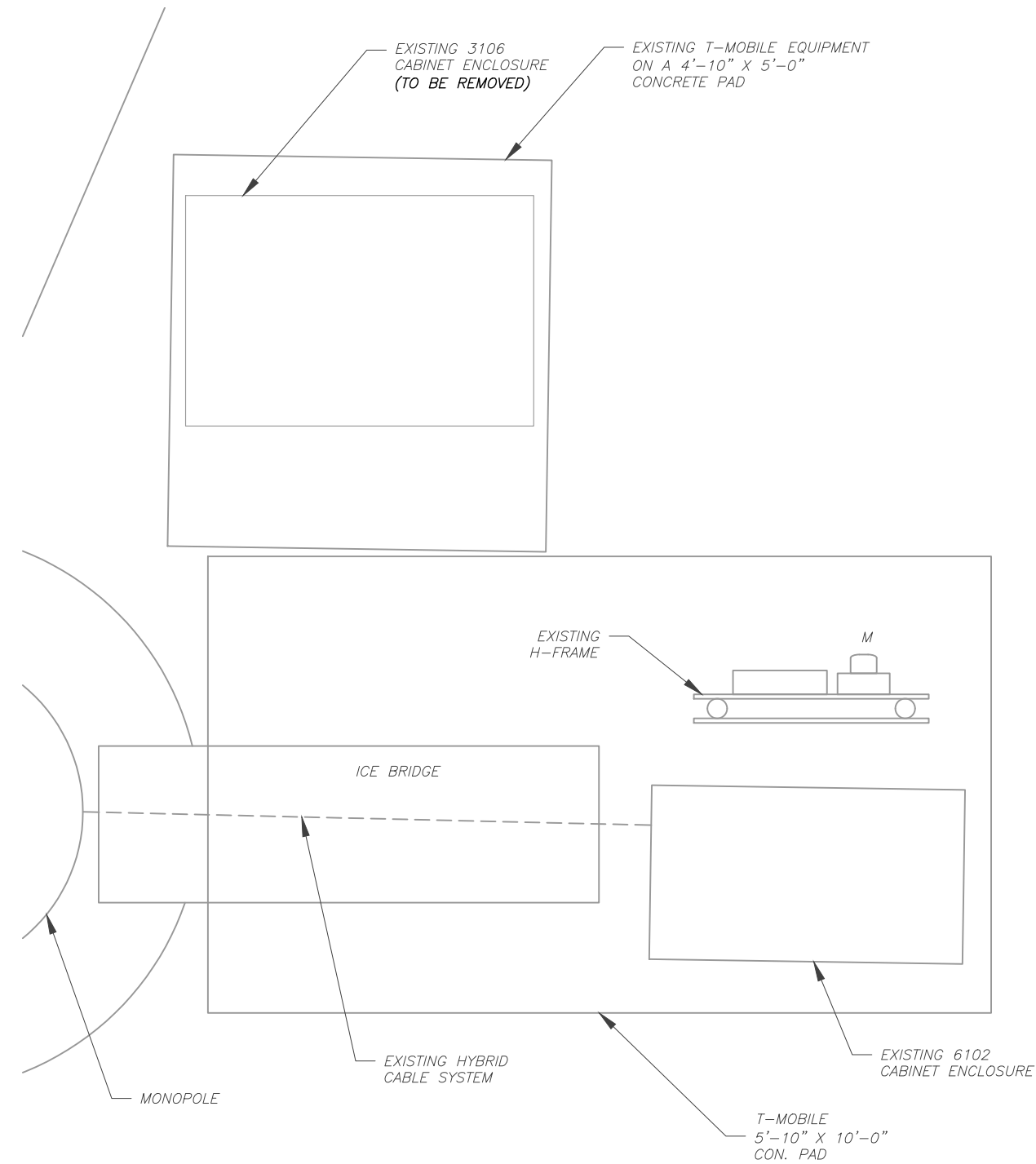
DETAILED SITE PLAN

SHEET NUMBER:	REVISION:
C-101	1

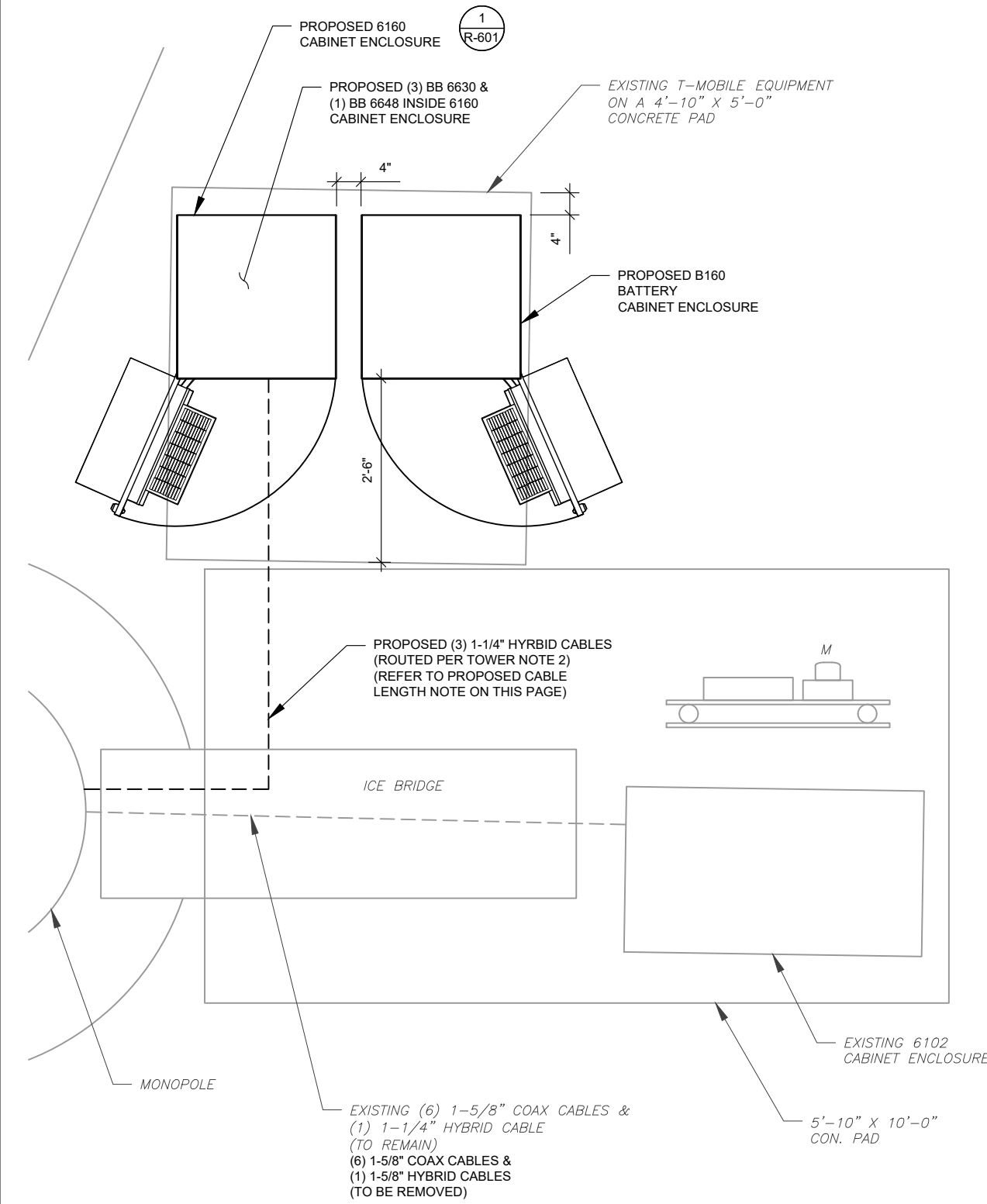
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SITE PLAN NOTES:

1. CONTRACTOR TO VERIFY THERE IS NO LIVE AAV FIBER RUNNING THROUGH EXISTING DEAD EQUIPMENT. IF SO, THIS WILL NEED TO BE RERUN THROUGH CONDUIT PRIOR TO REMOVING DEAD 2G (6201 CABS) EQUIPMENT.
2. REMOVE EXISTING 2G CABINETS, AND POWER / TELCO WHIPS ASSOCIATED WITH THE DEAD EQUIPMENT IF APPLICABLE.
3. ALL OPEN PORTS NEED TO BE SEALED / WEATHERPROOFED PROPERLY
4. ALL UNNEEDED / EXCESS EQUIPMENT AND GARBAGE TO BE REMOVED FROM EQUIPMENT AREA. DISPOSE OF MATERIALS PROPERLY OFF SITE.



T-MOBILE CM APPROVAL REQUIRED BEFORE INSTALLING CABINETS



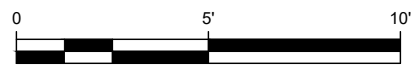
1 EXISTING GROUND EQUIPMENT LAYOUT



SCALE: 1"=5' (11X17)
1"=2.5' (22X34)



2 PROPOSED GROUND EQUIPMENT LAYOUT



SCALE: 1"=5' (11X17)
1"=2.5' (22X34)



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0	FOR CONSTRUCTION	NG	07/29/20
1	GROUND CHANGE	NG	08/14/20

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T-MOBILE SITE NAME:
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SEAL:

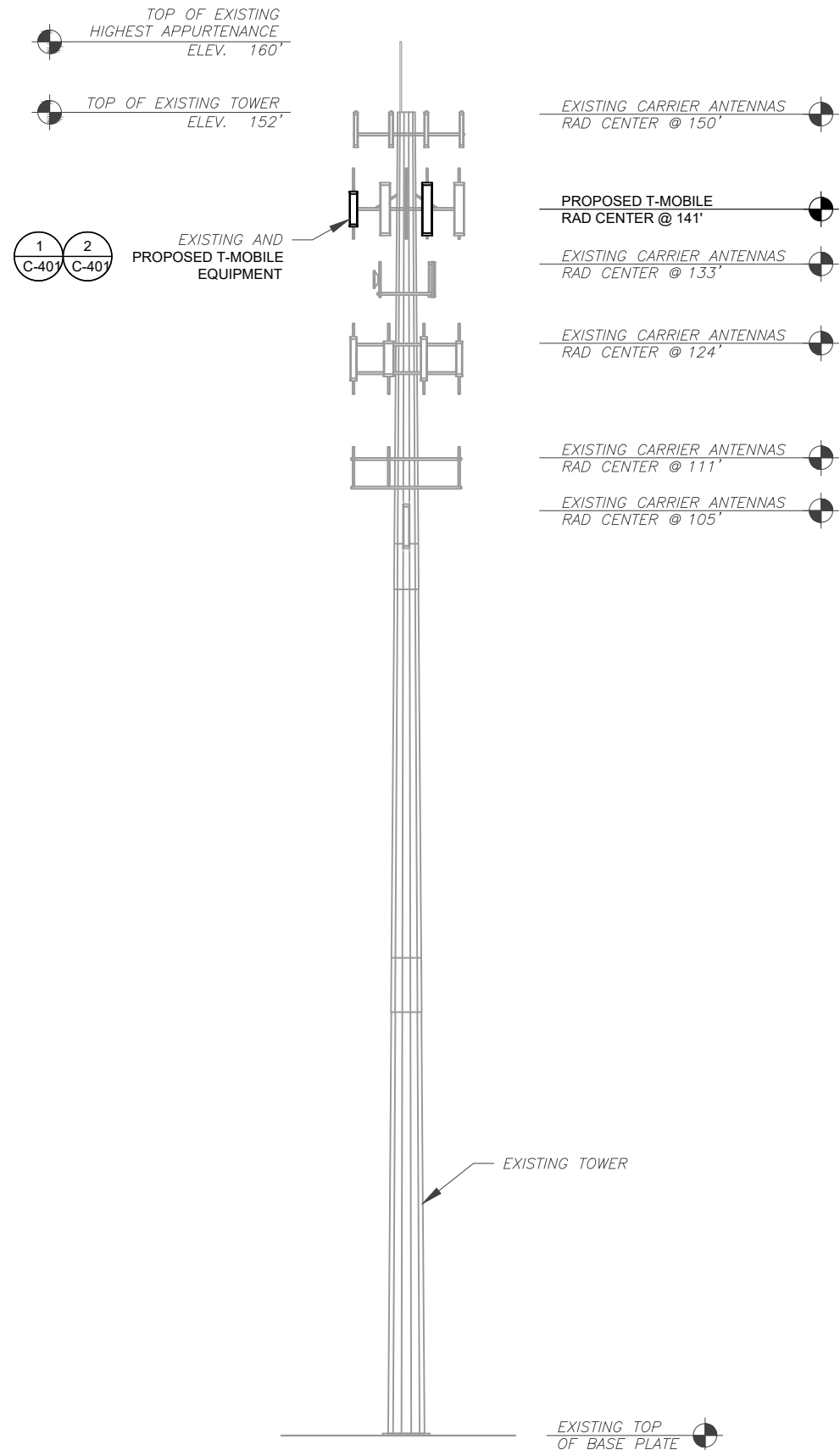


DATE DRAWN:	07/29/20
ATC JOB NO:	13251802
CUSTOMER ID:	WALLINGFORD/ I-91/ X15/ G
CUSTOMER #:	CT11054A

DETAILED GROUND PLAN

SHEET NUMBER:	REVISION:
C-102	1

PER MOUNT ANALYSIS COMPLETED BY TEP, DATED 06/19/20, THE EXISTING MOUNT CAN NOT ADEQUATELY SUPPORT THE PROPOSED LOADING. THE MOUNT REPLACEMENT PROPOSED IN THE MOUNT ANALYSIS, INCLUDED AT THE END OF THIS PLAN SET, MUST BE INSTALLED PRIOR TO THE INSTALLATION OF THE PROPOSED ANTENNAS AND OTHER EQUIPMENT.



1 TOWER ELEVATION
SCALE: N.T.S.

TOWER NOTE:

- IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM WITH THE AMERICAN TOWER CONSTRUCTION MANAGER THAT THEY HAVE THE MOST RECENT VERSION OF THE STRUCTURAL ANALYSIS BEFORE COMMENCING WORK. EXISTING AND PROPOSED TOWER APPURTENANCES, MOUNTS, AND ANTENNAS ARE SHOWN BASED ON THE STRUCTURAL ANALYSIS.
- ROUTE PROPOSED CABLES ALONG SAME PATH AS EXISTING CABLES AND IN ACCORDANCE WITH STRUCTURAL ANALYSIS. IF ADEQUATE SPACE EXISTS, ROUTE CABLES THROUGH ENTRY PORT HOLE, UP INSIDE OF MONOPOLE, AND THROUGH EXIT PORT HOLE. IF ROUTING OUTSIDE THE MONOPOLE, ATTACH CABLES USING STAND-OFF ADAPTERS MOUNTED TO TOWER USING STAINLESS STEEL BANDING. ADEQUATELY SECURE CABLES USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAP-INS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER.
- TOWER ELEVATIONS ARE MEASURED FROM TOP OF BASE PLATE TO MATCH STRUCTURAL ANALYSIS. ELEVATIONS DO NOT REFLECT TRUE ABOVE GROUND LEVEL (A.G.L.)

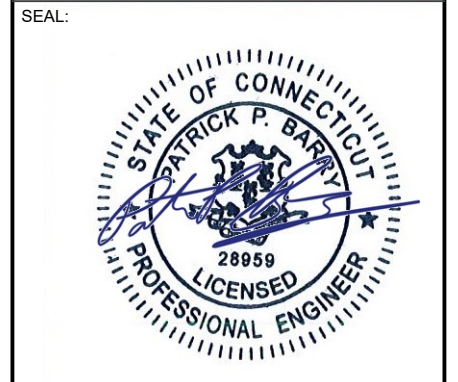


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REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	NG	07/29/20

ATC SITE NUMBER:
302538
 ATC SITE NAME:
PARSONAGE HILL AKA WALLIN
 T-MOBILE SITE NAME:
WALLINGFORD/ I-91/ X15/ G
 SITE ADDRESS:
 922 NORTHRUP ROAD
 WALLINGFORD, CT 06492

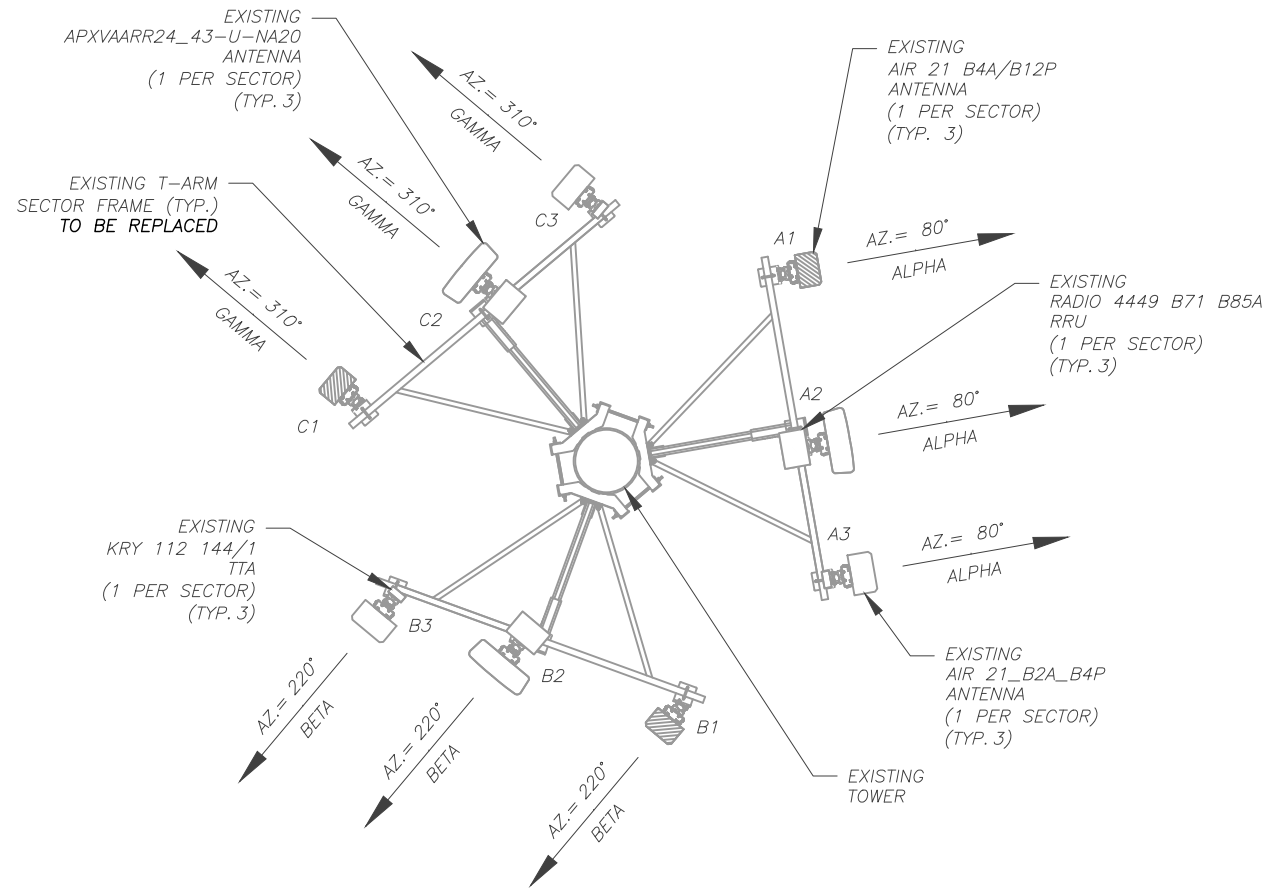


DATE DRAWN:	07/29/20
ATC JOB NO:	13251802
CUSTOMER ID:	WALLINGFORD/ I-91/ X15/ G
CUSTOMER #:	CT11054A

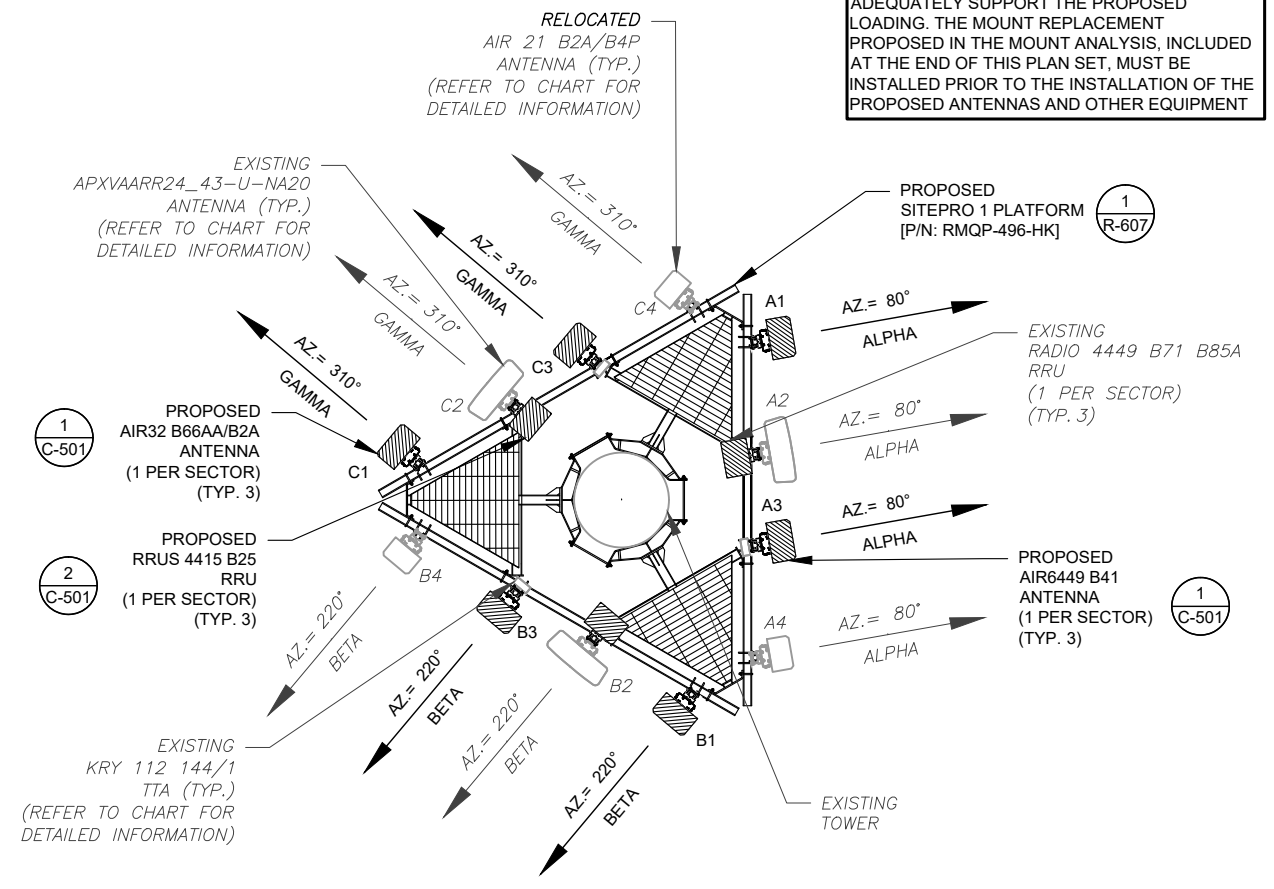
TOWER ELEVATION

SHEET NUMBER:	REVISION:
C-201	0

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1 EXISTING ANTENNA PLAN
SCALE: N.T.S.



2 FINAL ANTENNA PLAN
SCALE: N.T.S.

PER MOUNT ANALYSIS COMPLETED BY TEP, DATED 06/19/20, THE EXISTING MOUNT CAN NOT ADEQUATELY SUPPORT THE PROPOSED LOADING. THE MOUNT REPLACEMENT PROPOSED IN THE MOUNT ANALYSIS, INCLUDED AT THE END OF THIS PLAN SET, MUST BE INSTALLED PRIOR TO THE INSTALLATION OF THE PROPOSED ANTENNAS AND OTHER EQUIPMENT

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REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	NG	07/29/20
1	ANTENNA CHANGE	NG	08/14/20

ATC SITE NUMBER:
302538
ATC SITE NAME:
PARSONAGE HILL AKA WALLIN
T-MOBILE SITE NAME:
WALLINGFORD/ I-91/ X15/ G
SITE ADDRESS:
922 NORTHRUP ROAD
WALLINGFORD, CT 06492

SEAL:

T-Mobile®

DATE DRAWN: 07/29/20
ATC JOB NO: 13251802
CUSTOMER ID: WALLINGFORD/ I-91/ X15/ G
CUSTOMER #: CT11054A

ANTENNA INFORMATION & SCHEDULE

SHEET NUMBER:
C-401
REVISION:
1

EXISTING ANTENNA SCHEDULE								
LOCATION		ANTENNA SUMMARY					NON ANTENNA SUMMARY	
SECTOR	RAD	AZ	POS	ANTENNA	BAND	MECH/ELEC D-TILT	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT
ALPHA	141'	80°	A1	AIR 21 B4A/B12P	L2100	0°/7"	RMV	-
			A2	APXVAARR24_43-U-NA20	N600/L700/L600	0°/0°	RMN	RADIO 4449 B71 B85A
			A3	AIR21_B2A_B4P	L/G1900/U2100	0°/2°	RMN	KRY 112 144/1
BETA	141'	220°	B1	AIR 21 B4A/B12P	L2100	0°/7"	RMV	-
			B2	APXVAARR24_43-U-NA20	N600/L700/L600	0°/0°	RMN	RADIO 4449 B71 B85A
			B3	AIR21_B2A_B4P	L/G1900/U2100	0°/2°	RMN	KRY 112 144/1
GAMMA	141'	310°	C1	AIR 21 B4A/B12P	L2100	0°/7"	RMV	-
			C2	APXVAARR24_43-U-NA20	N600/L700/L600	0°/0°	RMN	RADIO 4449 B71 B85A
			C3	AIR21_B2A_B4P	L/G1900/U2100	0°/2°	RMN	KRY 112 144/1

NOTES

- CONFIRM WITH T-MOBILE REP FOR APPLICABLE UPDATES/REVISIONS AND MOST RECENT RFDS FOR NSN CONFIGURATION (CONFIG). GC TO CAP ALL UNUSED PORTS.
- CONFIRM SPACING OF PROPOSED EQUIP DOES NOT CAUSE TOWER CONFLICTS NOR IMPEDE TOWER CLIMBING PEGS.

STATUS ABBREVIATIONS

RMV: TO BE REMOVED
RMN: TO REMAIN
REL: TO BE RELOCATED
ADD: TO BE ADDED

CABLE LENGTHS FOR JUMPERS

JUNCTION BOX TO RRU: 15'
RRU TO ANTENNA: 10'

FINAL ANTENNA SCHEDULE								
LOCATION		ANTENNA SUMMARY					NON ANTENNA SUMMARY	
SECTOR	RAD	AZ	POS	ANTENNA	BAND	MECH/ELEC D-TILT	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT
ALPHA	141'	80°	A1	AIR32 B66AA/B2A	L1900/L2100	0°/7"	ADD	-
			A2	APXVAARR24_43-U-NA20	N600/L700/L600	0°/0°	RMN	RADIO 4449 B71 B85A
			A3	AIR6449 B41	L2500/N2500	0°/0°	ADD	KRY 112 144/1
			A4	AIR21_B2A_B4P	L/G1900/U2100	0°/2°	RMN	-
BETA	141'	220°	B1	AIR32 B66AA/B2A	L1900/L2100	0°/7"	ADD	-
			B2	APXVAARR24_43-U-NA20	N600/L700/L600	0°/0°	RMN	RADIO 4449 B71 B85A
			B3	AIR6449 B41	L2500/N2500	0°/0°	ADD	KRY 112 144/1
			B4	AIR21_B2A_B4P	L/G1900/U2100	0°/2°	RMN	-
GAMMA	141'	310°	C1	AIR32 B66AA/B2A	L1900/L2100	0°/7"	ADD	-
			C2	APXVAARR24_43-U-NA20	N600/L700/L600	0°/0°	RMN	RADIO 4449 B71 B85A
			C3	AIR6449 B41	L2500/N2500	0°/0°	ADD	KRY 112 144/1
			C4	AIR21_B2A_B4P	L/G1900/U2100	0°/2°	RMN	-

EXISTING FIBER DISTRIBUTION/OVP BOX		EXISTING CABLING SUMMARY		
MODEL NUMBER	STATUS	COAX	HYBRID	STATUS
-	-	(6) 1-5/8"	(3) 1-1/4"	RMN
-	-	(6) 1-5/8"	1-5/8"	RMV

3 EQUIPMENT SCHEDULES

FINAL FIBER DISTRIBUTION / OVP BOX		FINAL CABLING SUMMARY		
MODEL NUMBER	STATUS	COAX	HYBRID	STATUS
-	-	(6) 1-5/8"	(3) 1-1/4"	RMN
-	-	-	(3) 1-1/4"	ADD

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0	FOR CONSTRUCTION	NG	07/29/20

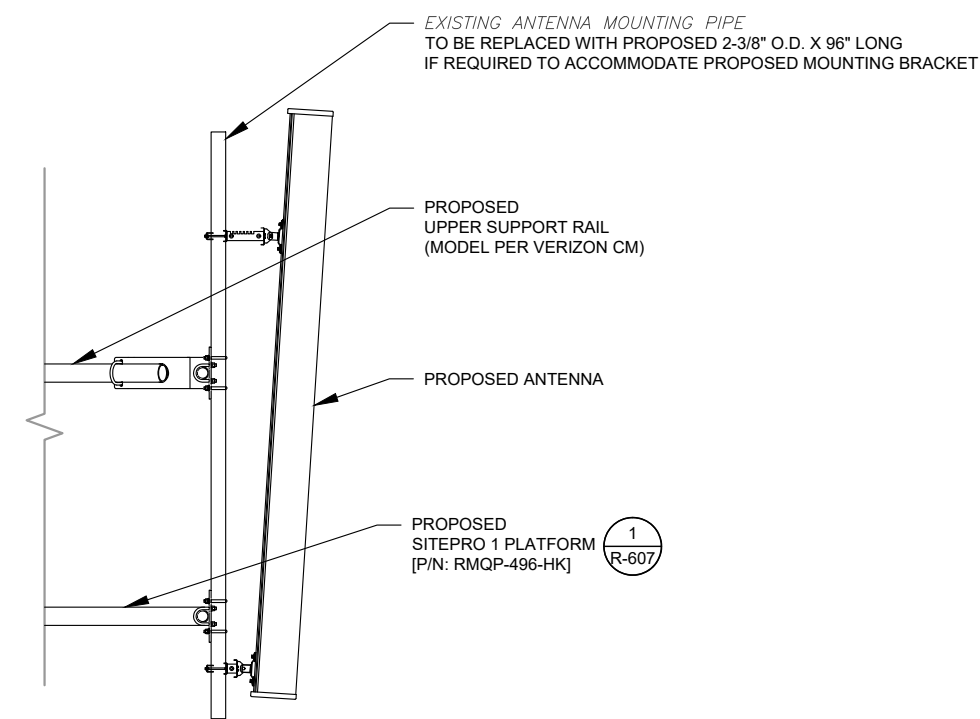
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302538
 ATC SITE NAME:
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 T-MOBILE SITE NAME:
WALLINGFORD/ I-91/ X15/ G
 SITE ADDRESS:
 922 NORTHRUP ROAD
 WALLINGFORD, CT 06492



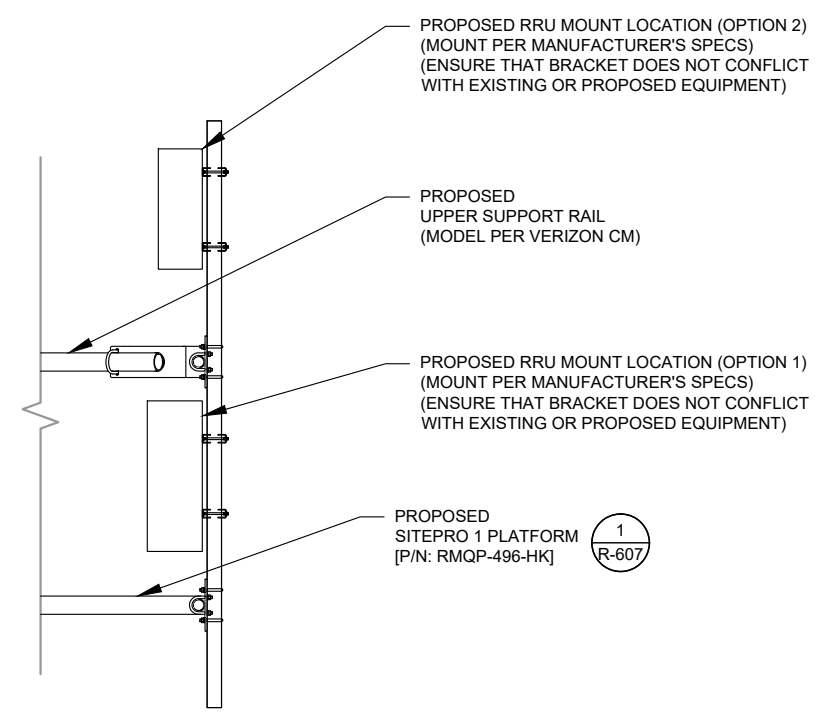
DATE DRAWN:	07/29/20
ATC JOB NO:	13251802
CUSTOMER ID:	WALLINGFORD/ I-91/ X15/ G
CUSTOMER #:	CT11054A

**CONSTRUCTION
 DETAILS**

SHEET NUMBER: C-501	REVISION: 0
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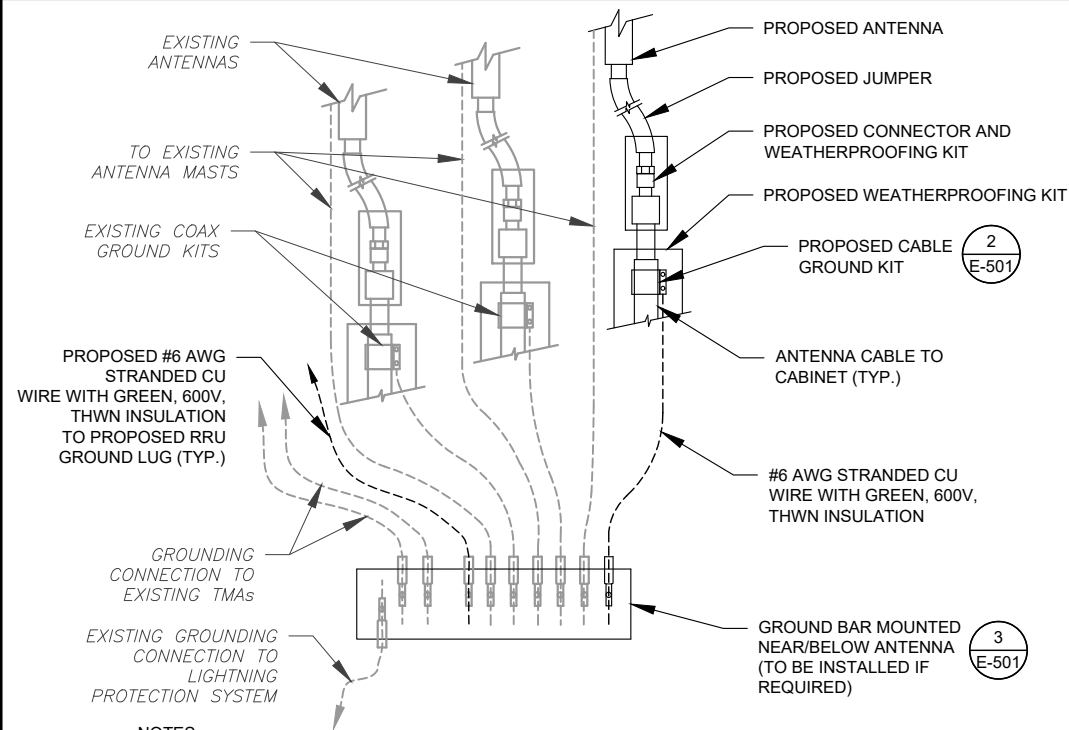


1 PROPOSED ANTENNA MOUNTING DETAIL - TYPICAL
 SCALE: N.T.S.



2 PROPOSED RRU MOUNTING DETAIL - TYPICAL
 SCALE: N.T.S.

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NOTES:

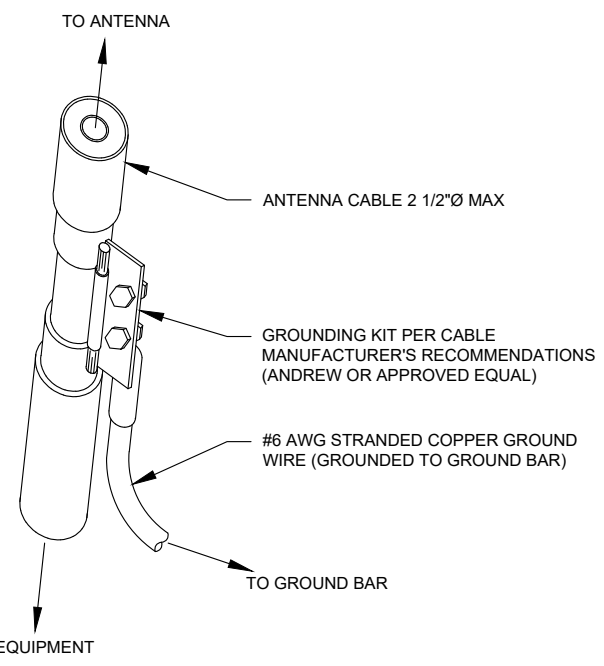
1. THIS DETAIL IS INTENDED TO SHOW THE GENERAL GROUNDING REQUIREMENTS. SLIGHT ADJUSTMENTS MAY BE REQUIRED BASED ON EXISTING SITE CONDITIONS. THE CONTRACTOR SHALL MAKE FIELD ADJUSTMENTS AS NEEDED AND INFORM THE CONSTRUCTION MANAGER OF ANY CONFLICTS.
2. SITE GROUNDING SHALL COMPLY WITH T-MOBILE GROUNDING STANDARDS, LATEST EDITION, AND COMPLY WITH T-MOBILE GROUNDING CHECKLIST, LATEST VERSION. WHEN NATIONAL AND LOCAL GROUNDING CODES ARE MORE STRINGENT THEY SHALL GOVERN.

1 TYPICAL ANTENNA GROUNDING DIAGRAM
SCALE: N.T.S.

ELECTRICAL NOTES:

1. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE T-MOBILE REPRESENTATIVE AND LOCAL UTILITY COMPANY FOR THE INSTALLATION OF CONDUITS, CONDUCTORS, BREAKERS, DISCONNECTS, OR ANY OTHER EQUIPMENT REQUIRED FOR ELECTRICAL SERVICE. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH LATEST EDITION OF THE STATE AND NATIONAL CODES, ORDINANCES AND REGULATIONS APPLICABLE TO THIS PROJECT.
2. ATC HAS NOT VERIFIED ANY EXISTING T-MOBILE GROUND EQUIPMENT OR ELECTRICAL LOADING. PROPOSED WORK BASED ON INSTALLATION CONFIGURATION PROVIDED BY T-MOBILE. CONTRACTOR TO VERIFY EXISTING T-MOBILE PANEL HAS SUFFICIENT SPACE FOR PROPOSED BREAKER. PROPOSED CABLE AND CONDUIT SHALL BE MINIMUM SIZE PER BELOW:

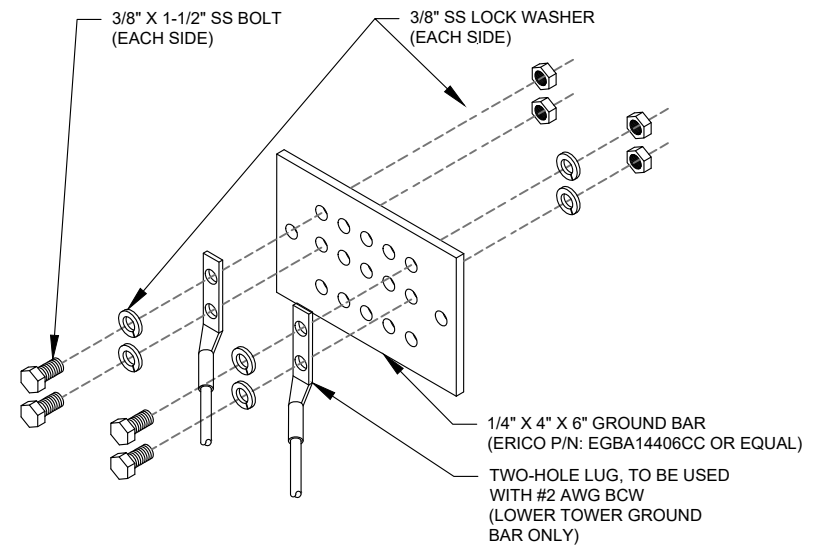
OCPD SIZE	WIRE SIZE	GROUND SIZE	CONDUIT SIZE
80A/2P	2#3 AWG	#8 AWG	1-1/4"
100/2P	2#2 AWG	#8 AWG	1-1/4"
125A/2P	2#1 AWG	#8 AWG	1-1/2"
150A/2P	2#1/0 AWG	#8 AWG	1-1/2"



GROUND KIT NOTES:

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
2. CONTRACTOR SHALL PROVIDE WEATHERPROOFING KIT (ANDREW PART NUMBER 221213) AND INSTALL/TAPE PER MANUFACTURER'S SPECIFICATIONS.

2 CABLE GROUND KIT CONNECTION DETAIL
SCALE: N.T.S.



GROUND BAR NOTES:

1. GROUND BAR KITS COME WITH ALL HARDWARE, NUTS, BOLTS, WASHERS, ETC. EXCEPT THE STRUCTURAL MOUNTING MEMBER(S).
2. GROUND BAR TO BE BONDED DIRECTLY TO TOWER.

3 TOWER GROUND BAR DETAIL
SCALE: N.T.S.

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0	FOR CONSTRUCTION	NG	07/29/20

ATC SITE NUMBER:
302538
 ATC SITE NAME:
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 T-MOBILE SITE NAME:
WALLINGFORD/ I-91/ X15/ G
 SITE ADDRESS:
 922 NORTHRUP ROAD
 WALLINGFORD, CT 06492

SEAL:

DATE DRAWN:	07/29/20
ATC JOB NO:	13251802
CUSTOMER ID:	WALLINGFORD/ I-91/ X15/ G
CUSTOMER #:	CT11054A

GROUNDING DETAILS

SHEET NUMBER: E-501	REVISION: 0
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RAN Template: 67D5A992DB Hybrid	A&L Template: 67D5992DB_3xAIR+1OP
---	---

Section 5 - RAN Equipment

Existing RAN Equipment	
Template: 67D92C Hybrid	
Enclosure	1 2
Enclosure Type	RBS 6102 RBS 3106
Baseband	DUW30 U2100 DUG20 G1900 BB 6630 L1900 L2100 L700 L600 BB 6630 N900
Hybrid Cable System	Ericsson 9x18 HCS *Select Length* Ericsson 6x12 HCS *Select Length & AWG* (x 2)
Radio	RUS01 B4 (x 6) U2100

Proposed RAN Equipment		
Template: 67D5A992DB Hybrid		
Enclosure	1 2 3	
Enclosure Type	RBS 6102 Enclosure 6160 B160	
Baseband	DUW30 U2100 DUG20 G1900 BB 6630 L2100 N900 BB 6630 L1900 L700 L600 BB 6630 (x 3) L2500 BB 6648 N2500	
Hybrid Cable System	Ericsson 6x12 HCS *Select Length & AWG* Ericsson 6x12 HCS *Select AWG & Length* (x 2)	
Radio	RUS01 B4 (x 6) U2100	

RAN Scope of Work:

Remove existing RBS3106, and relocate AAV to new Emerson Cabinet.

Add (1) Enclosure 6160.

Add (1) Battery Cabinet B160.

Add (1) iXRe Router to new Enclosure 6160.

Add (3) BB6630 for L2500 to new Enclosure 6160.

Add (1) BB6648 for N2500 to new Enclosure 6160.

Existing: (12) 1 5/8" (1) 9X18 (3) 6X12 HCS planned for L600 work.

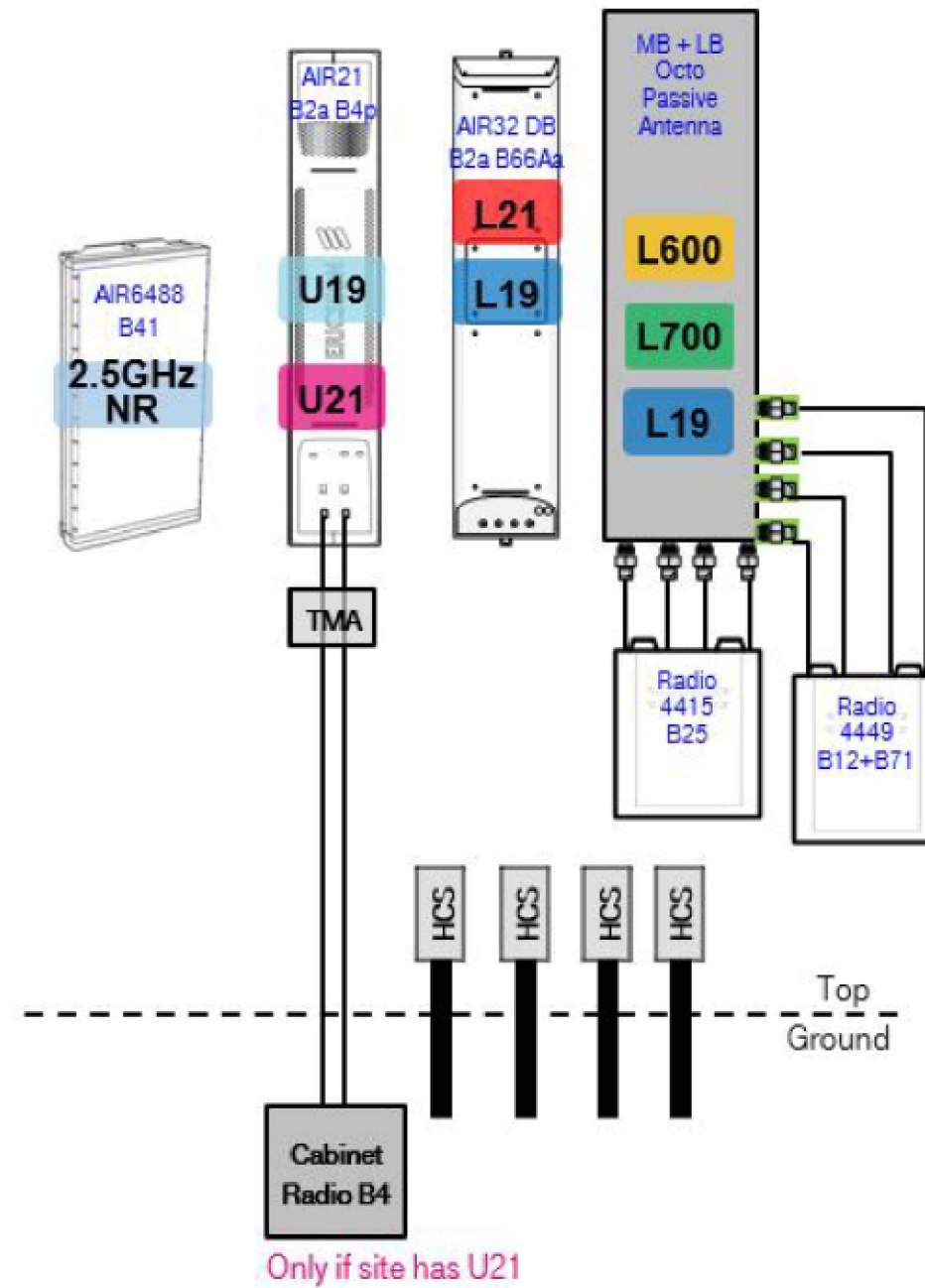
Remove (6) Coaxial Lines for new total of (6) Coaxial Lines.

Replace 9X18 with (1) 6X12 HCS.

Add (2) 6X12 HCS. One new HCS will be for the AIR32 DB. One new HCS will be for the Anchor A&L Equipment. Length of new HCS will match that of existing HCS.

1 CABINET CONFIGURATION
SCALE: NOT TO SCALE

67D5992DB_3xAIR+1OP.JPG



Notes:

2 ANTENNA CONFIGURATION
SCALE: NOT TO SCALE

SUPPLEMENTAL

SHEET NUMBER: R-601
REVISION: 0

NOTE: THIS SHEET CREATED BY OTHERS AND PROVIDED BY REQUEST OF CUSTOMER WITHOUT EDIT.

PRODUCT DESCRIPTION

Frequency Range	LTE TDD B41: 2496 – 2690 MHz
Instantaneous BW	DL 194 MHz
Antenna Ports	64T64R
Technology	NR, LTE and NR+LTE MSMM
Antenna Elements	192
Output RF Power	300 W (=64 TRX x 4.6875W)
Data Ports	4 x 25Gb/s CPRI
5G NR Support	YES
DC Feed	-48V DC power connector
Cooling	Passive cooling (vs. active cooling on AIR32 DB)
Dimensions (H x W x D)	33.1" x 20.6" x 8.6" inches (=841 x 524 x 217 mm)
Weight	104 lbs (=47 kg)
Electrical downtilt	-3 to 11 degrees
Horizontal beamwidth	+/- 65 degrees
HW/SW Availability	July 2020
Material SAP #	34105 – AIR 6449 B41



WARRANTY: 1 Year

SPARES: 2% of install base. Additional units can be requested as per need.

Baseband Requirements

For a typical 3-sector site,

- LTE: one dedicated BB6630 per site
- NR: one dedicated BB6648 (see [its NPI](#)) per site

Supplementary/Ancillary Materials

SKU	Description	Qty
34106	AIR6449 Mandatory Install KIT	1 per AIR6449
34110	AIR6449 25G SFP	8 per AIR6449

LINKS

- [Ericsson New T-Mobile Anchor Network Playbook](#)
- [AIR 6488 vs. AIR 6449 Comparison](#)

CONTACTS

Jacob Madian Assoc. Engineer, RAN Architecture
 Weston Berry Engineer, RAN Architecture

Dimension Comparison: RRUS01, RRUS11 and RRUS32

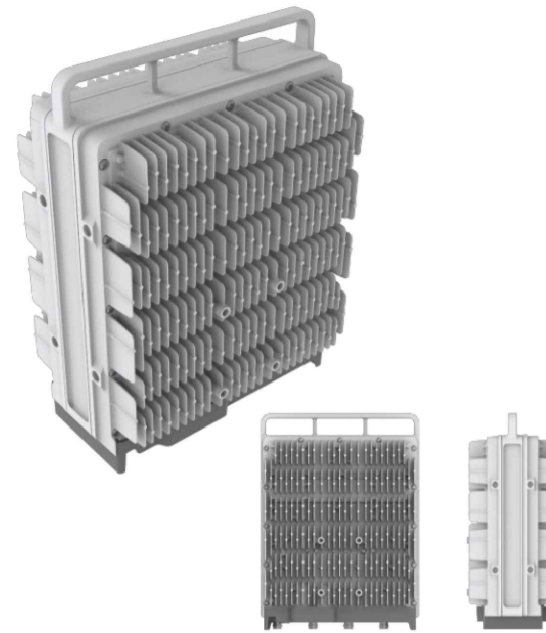
Mechanical	AIR21 B4a B2p	AIR32 Single Band (SB) B4a B2p	AIR32 Dual Band (DB) B66Aa B2a
Weight (without mounting brackets)	41 Kg (=90.4 lbs)	48 Kg (=105.8 lbs)	60 Kg (=132.2 lbs)
Dimensions (H x W x D)	1427 x 307 x 200 mm (=56.2" x 12.1" x 7.9")	1439 x 327 x 220 mm (=56.6" x 12.9" x 8.7")	1439 x 327 x 220 mm (=56.6" x 12.9" x 8.7")
Frontal Wind load @ 150 km/h (=42 m/s) wind speed	580 N	650 N	650 N

17% (SB) and 46% (DB) heavier than AIR21
Just 6.5% thicker but almost the same height

SUPPLEMENTAL

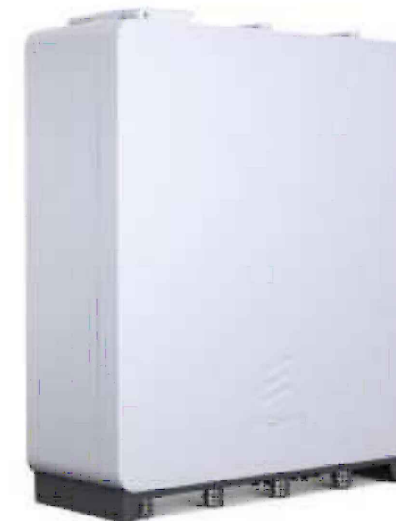
Radio 4449 B71 B85A

- › 4TX/4RX – 320W FDD
 - 4x40W B71 + 4x40W B85A
- › IBW:
 - Full band support in each of the bands
- › 4 Antenna ports, each port shared by two bands
 - 4.3-10 plus (f) or equivalent
- › LTE, NR, NB-IoT
- › Carrier per port per band:
 - Up to 4 carriers (DL/UL) in each band
 - › Up to 4 LTE carriers
 - › NB-IoT
 - Up to 2 Standalone carrier
 - In-Band & Guard Band as per legacy requirements
 - › NR carrier up to 35 MHz (B71)
- › 2.5; 4.9; 9.8; 10.1 Gbit/s CPRI
- › 380mm x 335mm x 267mm (< 34 liter, < 75 lb (34 kg))
- › -48 VDC (Two DC feeds, 2x 20A Breakers)
- › AISG TMA & RET support
- › Convection cooling
- › 2 external alarms supported
- › IP 65, -40 to +55°C



RRUS 4415 B25

- › B25
 - TX = 1930 – 1995 MHz
 - RX = 1850 – 1915 MHz
- › CPRI 2 ports x 2.5/4.9/9.8/10.1 Gbps. Install 2 SFPs and connect 2 fiber pair to the RRUS 4415 during initial install.
- › Only use Ericsson supplied and approved SFPs RDH10265/25
 - Exception: SFP7 RDH 10265/3 for CPRI 1.4km to 10km
 - Exception: SFP7 (pair): RDH 102 70/1 and RDH 102 70/2 for CPRI > 10km
- › 2 external alarm inputs
- › Max wind load @ 50m/sec = 260N
- › Breaker size = 25A, DC Power Consumption = 670 W (for dimensioning)
- › 200mm horizontal separation required for side by side mounting
- › 200mm separation required from antenna backplane to radio
- › 400mm vertical outdoor/indoor separation required between 2 radios
- › 500mm vertical separation below antenna
- › Min, Max DC cable size from squid to radio = 10,8 AWG
 - Adapter is required for 2-wire connection
 - Shielded DC cable is required
- › Ground cable size = 2AWG
- › Dimensions (incl. handles, feet and sunshield, w/o fan unit)
 - Height: 16.5" (420 mm)
 - Width: 13.4" (342 mm)
 - Depth: 5.9" (149 mm)
- › Weight, excl. mounting hardware = 46 lbs (21 kg)





Enclosure 6160 AC

The Enclosure 6160 is a multi-purpose site cabinet designed to support a multitude of equipment such as ERS Baseband, Transport, Li-Ion battery and 3PP vendor equipment. It also provides a highly capable power system and battery back-up - all in a streamlined design and minimized footprint to support cost efficient expansion of mobile broadband.

Being an all-in-one enclosure, the Enclosure 6160 is a very fitting choice for all types of sites where the capacity need is large or room for future expansion is needed. It is ideally used for modernizing existing sites or in greenfield scenarios to match both current and future needs.

With a robust design, IP65 compliance and a sealed Heat Exchanger (HEX) climate system the Enclosure 6160 ensures optimal environmental protection of the active equipment - enabling them for a long-lasting service. The complete system is also integrated and verified for the entire Ericsson Radio System and ensures best-in-class service.

The power system offers 31,5kW of power in total and provides 24kW of -48V DC power for both internal and external consumers.

The equipment space allows 19U of rack space ensuring well enough capacity for existing need and future expansion.

One of the main advantages of the Enclosure 6160 is its default integration with ENM - allowing for advanced remote monitoring and control such a fault management (alarms), inventory management and performance measurements. The cabinet also provides an open O&M interface for integration to 3PP O&M systems.



Preliminary technical specification for Enclosure 6160 AC

CAPACITY

Rack space user equipment	19U (19" rack)
Hardware capabilities	Power and CPRI support for multi-standard remote radios (RRU or AIR) ERS Baseband and Transport units Li-Ion batteries 3PP equipment Additional power feed available as option

MECHANICAL SPECIFICATION

Weight	145 kg (excluding active equipment) 320 lbs (excluding active equipment)
Dimension (H x W x D)	1600 x 650 x 650 mm (incl. Base frame) 63 x 26 x 26 in. (incl. Base frame)
Base frame height	150 mm 6 in.
Mounting position	Ground
Enclosure material	Aluminum
Color	Power paint NCS 2002-B
Door	Front access
Rack type	19" (IEC 60297-3-100)
Locking type	Pad lock or Cylinder

POWER SYSTEM

Input voltage	3P+N+PE: 346/200-415/240 VAC 2P+N+PE: 208/120-220/127 VAC 1P+N+PE: 200-250 VAC
Input power	<33kW
Output load (-48VDC)	24kW
Total capacity (-48VDC)	31.5kW
AC SPD	Class 2/Type 2
DC SPD	Class 2/Type 2
PSU Slots	9x
Service outlet	Optional
Priority load	8x Circuit Breaker
LLVD 1	6x Circuit Breaker
LLVD 2	6x Circuit Breaker
CB ratings	3A / 5A / 10A / 15A / 20A / 25A / 30A / 40A / 50A / 60A / 80A / 100A
Battery Interface	2x Circuit Breaker
Battery Circuit Breaker rating	125A 2pol (200A)
PSU capacity	3500W

SUPPLEMENTAL

SHEET NUMBER:

R-605

REVISION:

0

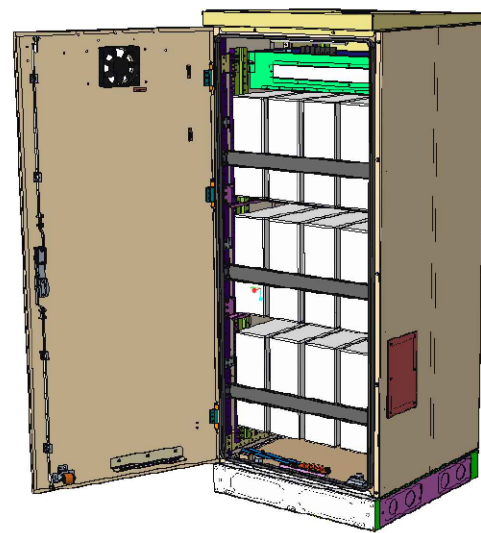
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EQUIPMENT SPECIFICATIONS

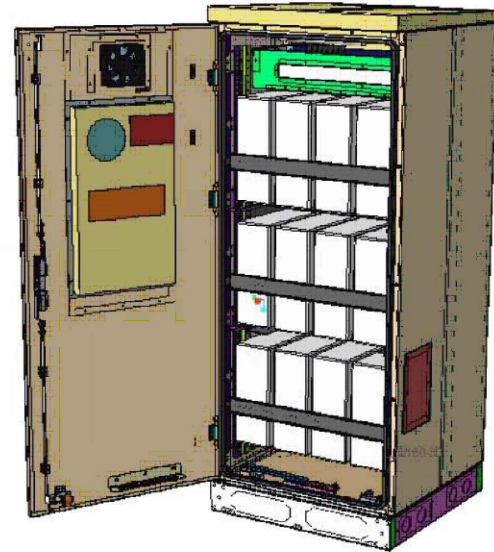
SCALE: N.T.S.

NOTE: THIS SHEET CREATED BY OTHERS AND PROVIDED BY REQUEST OF CUSTOMER WITHOUT EDIT.

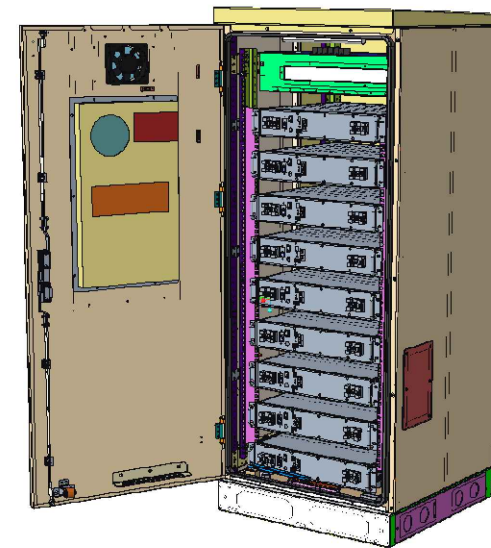
Enclosure B160



Enclosure B160
AirCon + VRLA



Enclosure B160
AirCon + Li-Ion



Enclosure B160
Convection Cooling
+ VRLA

Enclosure B160

Capacity

- VRLA 12V: 100Ah / 150Ah / 170Ah / 190Ah / 210Ah
- Li-Ion: 24U 19" / 23"
- Sodium-Nickel: 3x FIAMM

Electrical specification

- DC Output: -48VDC/200A
- Battery breakers: 2x 125/2p
- Alarms: Door open, Climate failure, MCB Connection

Mechanical specification

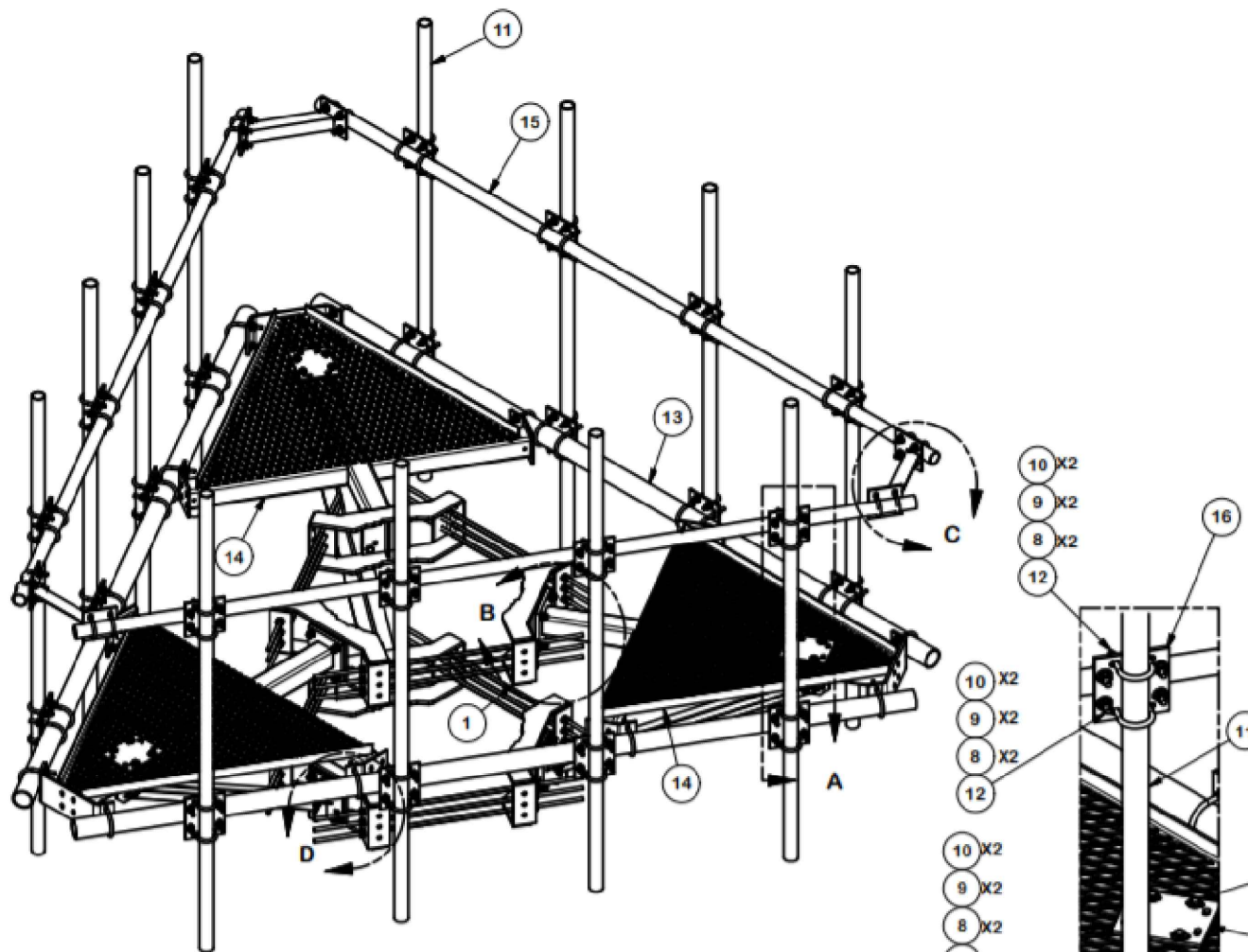
- Weight: 134kg
- Dimensions: 63 x 26 x 26 in. (incl. Base frame)
- Base frame height: 6 in.
- Material: Galvanized steel (180g/m²)
- Color: Powder paint NCS 2002-B
- Door: Front access
- Locking type: Pad lock / cylinder

Environmental specification

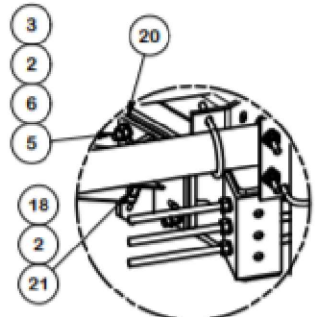
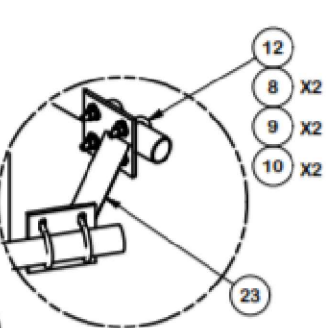
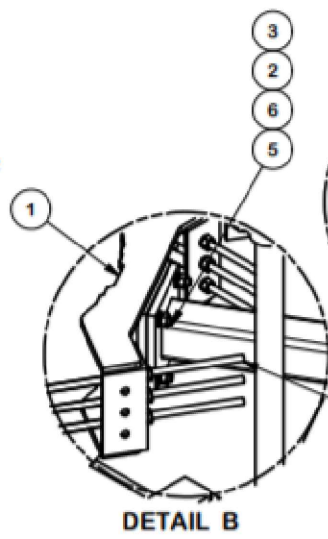
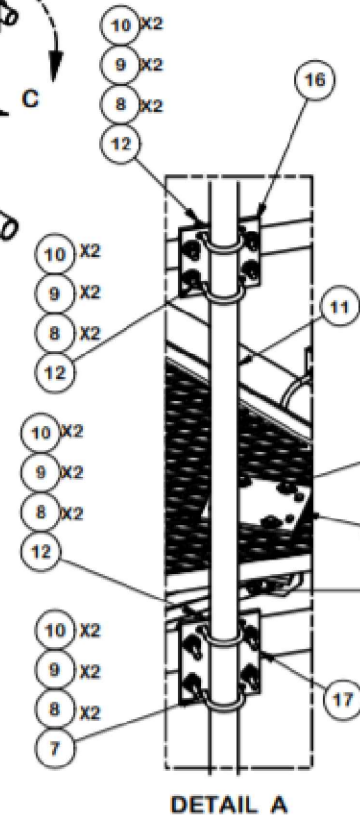
- Ingress protection: VRLA/Sodium IP44
Li-Ion IP55
- Relative humidity: 15-100%

Climate system

- Air Conditioner
 - Fan type: DC
 - Cooling capacity: 500W @L35/L35
- Convection cooling
 - Emergency fan



PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	6	X-LWRM	RING MOUNT WELDMENT		68.81	412.85
2	66	G58LW	5/8" HDG LOCKWASHER		0.03	1.72
3	60	A58NUT	5/8" HDG A325 HEX NUT		0.13	7.79
4	18	G58R-24	5/8" x 24" THREADED ROD (HDG.)		2.09	37.63
4	18	G58R-48	5/8" x 48" THREADED ROD (HDG.)		4.18	75.27
5	24	A58234	5/8" x 2-3/4" HDG A325 HEX BOLT	2 3/4 in	0.36	8.54
6	24	A58FW	5/8" HDG A325 FLATWASHER		0.03	0.82
7	36	X-UB1306	1/2" X 3-5/8" X 6" X 3" U-BOLT (HDG.)		0.83	29.82
8	264	G12FW	1/2" HDG USS FLATWASHER	3/32 in	0.03	9.00
9	252	G12LW	1/2" HDG LOCKWASHER	1/8 in	0.01	3.50
10	252	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	18.05
11	12	P296	2-3/8" X 96" SCH. 40 GALVANIZED PIPE	96 in	30.76	369.08
12	84	X-UB1212	1/2" X 2-1/2" X 4-1/2" X 2" U-BOLT (HDG.)		0.60	50.17
13	3	P3150	3-1/2" X 150" (3" SCH 40) GALVANIZED PIPE	150 in	94.80	284.40
14	3	X-SV196	LOW PROFILE PLATFORM CORNER		212.10	636.31
15	3	P2150	2-3/8" O.D. X 150" SCH 40 GALVANIZED PIPE	150 in	45.77	137.31
16	12	SCX2	CROSSOVER PLATE	7 in	4.80	57.56
17	15	SCX4	CROSSOVER PLATE	8 1/2 in	6.02	90.32
18	6	G58NUT	5/8" HDG HEAVY 2H HEX NUT		0.13	0.78
19	6	X-253993	PLATFORM REINFORCEMENT KIT ANGLE	52 25/32 in	14.33	85.99
20	6	X-TBW	T-BRACKET WELDMENT		13.60	81.60
21	6	G5802	5/8" x 2" HDG HEX BOLT GR5		0.27	1.62
22	12	G12065	1/2" x 6-1/2" HDG HEX BOLT GR5 FULL THREAD	5 1/2 in	0.41	4.91
23	3	X-AHCP	ANGLE HANDRAIL CORNER PLATE		12.92	38.76
					TOTAL WT. #	2445.81



REV	DESCRIPTION OF REVISIONS	CPD	BY	DATE
A	CHANGED X-253992 TO X-TBW	4488	CEK	9/20/2018

TOLERANCE NOTES
 TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:
 SAWED, SHEARED AND GAS CUT EDGES ($\pm 0.030"$)
 DRILLED AND GAS CUT HOLES ($\pm 0.030"$) - NO CONING OF HOLES
 LASER CUT EDGES AND HOLES ($\pm 0.010"$) - NO CONING OF HOLES
 BENDS ARE $\pm 1/2$ DEGREE
 ALL OTHER MACHINING ($\pm 0.030"$)
 ALL OTHER ASSEMBLY ($\pm 0.060"$)

PROPRIETARY NOTE:
 THE DATA AND TECHNIQUES CONTAINED IN THIS DRAWING ARE PROPRIETARY INFORMATION OF VALMONT INDUSTRIES AND CONSIDERED A TRADE SECRET. ANY USE OR DISCLOSURE WITHOUT THE CONSENT OF VALMONT INDUSTRIES IS STRICTLY PROHIBITED.

DESCRIPTION 12' 6" LOW PROFILE PLATFORM WITH TWELVE 2-3/8" ANTENNA MOUNTING PIPES, AND HANDRAIL			
CPD NO. 4488	DRAWN BY CEK 7/14/2014	ENG. APPROVAL	PART NO. RMQP-496-HK
CLASS 81	SUB 02	DRAWING USAGE CUSTOMER	CHECKED BY BMC 7/14/2014
DWG. NO. RMQP-496-HK		PAGE 1 OF 3	

SITE PRO 1
 A valmont company

Locations:
 New York, NY
 Atlanta, GA
 Los Angeles, CA
 Plymouth, IN
 Salem, OR
 Dallas, TX

Engineering Support Team:
 1-888-753-7446

June 19, 2020

Geoff Middlebrooks
American Tower Corporation
3500 Regency Pkwy, Suite 100
Cary, NC 27518
(919) 466-5149



Tower Engineering Professionals
326 Tryon Road
Raleigh, NC 27603
(919) 661-6351
Structures@tepgroup.net

Subject: Appurtenance Mount Analysis Report

Carrier Designation: T-Mobile Reconfiguration
Site Number: CT11054A
Site Name: Wallingford/ I-91/ X15/ G

ATC Designation: ATC Site Number: 302538
ATC Site Name: Parsonage Hill Aka Wallin

Engineering Firm Designation: TEP Project Number: 83631.424428

Site Data: 922 Northrop Rd. Wallingford, New Haven County, CT 06492-1910
Latitude 41° 29' 21.65", Longitude -72° 46' 05.71"
151 ± Foot - Monopole Tower

Table 1 - Mount Analysis Specification

Ultimate Wind Speed (MPH)	Radial Ice (in.)	Ice Wind Speed (MPH)	Exposure Category	Risk Category	Topo Procedure	K _{z1}
125	1 1/2	50	C	II	Method 2	1.0

Based on our analysis we have determined the stress level for the mount structure to be:

LC1: Existing + Proposed + Reserved Loading **Sufficient Capacity – 62.7%**
Note: See Table 2 for the existing, proposed, and reserved loading

The analysis has been performed in accordance with the ANSI/TIA-222-H-2017 Structural Standard for Antenna Supporting Structures, Antennas and Small Wind Turbine Support Structures and the 2018 Connecticut State Building Code.

Structural analysis prepared by: Michael Dugan, E.I.

Respectfully submitted by:

Aaron T. Rucker, P.E.



06/19/2020

Platform w/Handrail Mount Structural Analysis
TEP Project Number 83631.424428

June 19, 2020
302538 – Parsonage Hill Aka Wallin
Page 2

Table 2 - Existing, Proposed, and Reserved Antenna Loading Configuration

Existing/Proposed/Reserved	Mount Level (ft)	Ant CL (ft)	Qty	Antenna Model	Mount Type	Owner/Tenant
Final Loading Config.	141.0	141.0	3	Ericsson AIR 21, 1.3M, B2A B4P	Platform w/Handrail	T-Mobile
			3	Ericsson AIR32 B66Aa/B2a		
			3	Ericsson Air6449 B41		
			3	RFS APXVAARR24_43-U-NA20		
			3	Ericsson KRY 112 144/1		
			3	Ericsson RRUS 4415 B25		
			3	Ericsson Radio 4449 B71 B85A		

Table 3 - Mount Component Stresses vs. Capacity

Notes	Component	% Capacity	Pass / Fail
-	Face Horizontal	31.2	Pass
-	Handrail	58.0	Pass
-	Internal	22.0	Pass
-	Mount Pipe	62.7	Pass
-	Kicker	10.3	Pass
-	Connection Bolts	13.1	Pass
-	Connection Plate	14.1	Pass

Structure Rating (max from all components) =	62.7%
---	--------------

Table 4 - Documents Provided

Document	Remarks	Source
Mount Manufacturer Drawings	SitePro 1, dated July 14, 2014 Dwg No. RMQP-496-HK	TEP

RECOMMENDATIONS

- 1) If the load differs from that described in Table 2 of this report or the provisions of this analysis are found to be invalid, another structural analysis should be performed.
- 2) The mount has sufficient capacity to carry the existing, proposed, and reserved loading. No modifications are required at this time.

Exhibit D

Structural Analysis Report



AMERICAN TOWER®
CORPORATION

Structural Analysis Report

Structure : 150 ft Monopole
ATC Site Name : Parsonage Hill Aka Wallin, CT
ATC Asset Number : 302538
Engineering Number : 13251802_C3_04
Proposed Carrier : T-MOBILE
Carrier Site Name : Wallingford/ I-91/ X15/ G
Carrier Site Number : CT11054A
Site Location : 922 Northrop Road
Wallingford, CT 06492-1910
41.489300,-72.768300
County : New Haven
Date : July 10, 2020
Max Usage : 97%
Result : Pass



Prepared By:
Tim Wipperman
Engineer Intern

Reviewed By:

COA: PEC.0001553



Table of Contents

Introduction	1
Supporting Documents	1
Analysis	1
Conclusion.....	1
Existing and Reserved Equipment.....	2
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Proposed Equipment	3
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Deflection and Sway	3
Standard Conditions	4
Calculations	Attached



Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 150 ft monopole to reflect the change in loading by T-MOBILE.

Supporting Documents

Tower Drawings	Valmont Drawing #DC1776A, dated June 29, 1994
Foundation Drawing	SAC Engineering, Valmont Order #11715-94, dated July 21, 1994
Geotechnical Report	AET Project #91294, dated July 8, 1994

Analysis

The tower was analyzed using American Tower Corporation's tower analysis software. This program considers an elastic three-dimensional model and second-order effects per ANSI/TIA-222.

Basic Wind Speed:	116 mph (3-Second Gust)
Basic Wind Speed w/ Ice:	49 mph (3-Second Gust) w/ 7/8" radial ice concurrent
Code:	ANSI/TIA-222-H / 2015 IBC / 2018 Connecticut State Building Code
Exposure Category:	C
Risk Category:	II
Topographic Factor Procedure:	Method 1
Topographic Category:	1
Crest Height (H):	0 ft
Spectral Response:	$S_s = 0.21, S_1 = 0.05$
Site Class:	D - Stiff Soil

**Wind load and Ice thickness have been reduced by applicable existing structure load modification factors in accordance with TIA-222-H, Annex S.

Conclusion

Based on the analysis results, the structure meets the requirements per the applicable codes listed above. The tower and foundation can support the equipment as described in this report.

If you have any questions or require additional information, please contact American Tower via email at Engineering@americantower.com. Please include the American Tower site name, site number, and engineering number in the subject line for any questions.

Existing and Reserved Equipment

Elev. ¹ (ft)	Qty	Antenna	Mount Type	Lines	Carrier
150.0	1	DragonWave A-ANT-18G-2-C	Platform with Handrails	(4) 1 1/4" Hybriflex Cable (2) 1/2" Coax (2) 2" conduit (12) 5/16" (0.31"-7.9mm) Coax	CLEARWIRE CORPORATION
	6	Alcatel-Lucent RRH2x50-08			
	3	Alcatel-Lucent 1900 MHz 4X45 RRH			
	3	Alcatel-Lucent TD-RRH8x20-25 w/ Solar Shield			
	2	DragonWave Horizon Compact			
	3	RFS APXVTM14-ALU-I20			
	3	Commscope NNVV-65B-R4			
141.0	3	Ericsson KRY 112 144/1	-	(1) 1 1/4" Hybriflex Cable	T-MOBILE
	3	RFS APXVAARR24_43-U-NA20		(6) 1 5/8" Coax	
133.0	1	DragonWave A-ANT-11G-2-C	T-Arm	(2) 1/2" Coax (2) 2" conduit	CLEARWIRE CORPORATION
	3	Argus LLPX310R			
	2	DragonWave Horizon Compact			
	3	NextNet BTS-2500			
124.0	3	Kathrein Scala 80010965	Platform with Handrails	(3) 0.39" (10mm) Fiber Trunk (6) 0.78" (19.7mm) 8 AWG 6 (12) 1 5/8" Coax (2) 3" conduit	AT&T MOBILITY
	6	CCI OPA-65R-LCUU-H6			
	3	Powerwave Allgon 7770.00			
	3	Ericsson RRUS 32 B30			
	3	Ericsson RRUS 32 B2			
	3	Ericsson RRUS 32 B66A			
	3	Ericsson RRUS-11 (50 lbs.)			
	1	Raycap DC6-48-60-18-8C			
	3	Ericsson RRUS 4478 B14 (15")			
	2	Raycap DC6-48-60-18-8F ("Squid")			
	6	Powerwave Allgon LGP21401			
111.0	-	-	Empty Platform with Handrails	-	-
105.0	3	RFS APXV18-206517S-C	Flush	(6) 1 5/8" Coax	METRO PCS INC

Equipment to be Removed

Elev. ¹ (ft)	Qty	Antenna	Mount Type	Lines	Carrier
141.0	3	Ericsson Radio 4449 B12,B71	T-Arms	(2) 1 5/8" (1.63"-41.3mm) Fiber (4) 1 5/8" Coax	T-MOBILE
	3	Ericsson AIR 21 B4A/B12P-B5P 6FT			
	3	Ericsson AIR 21, 1.3 M, B2A B4P			



Proposed Equipment

Elev. ¹ (ft)	Qty	Antenna	Mount Type	Lines	Carrier
141.0	3	Ericsson RRUS 4415 B25	Site Pro 1 RMQP 496-HRK Platform with Handrails	(5) 1 1/4" Hybriflex Cable	T-MOBILE
	3	Ericsson Radio 4449 B71 B85A			
	3	Ericsson Air6449 B41			
	3	Ericsson AIR 21, 1.3M, B2A B4P (91.5 lbs)			
	3	Ericsson AIR32 B66Aa/B2a			

¹ Contracted elevations are shown for appurtenances within contracted installation tolerances. Appurtenances outside of contract limits are shown at installed elevations.

Install proposed lines inside the pole shaft.

Structure Usages

Structural Component	Controlling Usage	Pass/Fail
Anchor Bolts	87%	Pass
Shaft	85%	Pass
Base Plate	24%	Pass

Foundations

Reaction Component	Analysis Reactions	% of Usage
Moment (Kips-Ft)	3,911.3	51%
Axial (Kips)	57.7	51%
Shear (Kips)	35.5	97%

The structure base reactions resulting from this analysis were found to be acceptable through analysis based on geotechnical and foundation information, therefore no modification or reinforcement of the foundation will be required.

Deflection and Sway*

Antenna Elevation (ft)	Antenna	Carrier	Deflection (ft)	Sway (Rotation) (°)
150.0	DragonWave A-ANT-18G-2-C	CLEARWIRE CORPORATION	2.362	1.551
141.0	Ericsson RRUS 4415 B25	T-MOBILE	2.119	1.545
	Ericsson Radio 4449 B71 B85A			
	Ericsson Air6449 B41			
	Ericsson AIR 21, 1.3M, B2A B4P (91.5 lbs)			
	Ericsson AIR32 B66Aa/B2a			
133.0	DragonWave A-ANT-11G-2-C	CLEARWIRE CORPORATION	1.905	1.523

*Deflection and Sway was evaluated considering a design wind speed of 60 mph (3-Second Gust) per ANSI/TIA-222-H



Standard Conditions

All engineering services performed by A.T. Engineering Service, PLLC are prepared on the basis that the information used is current and correct. This information may consist of, but is not limited to the following:

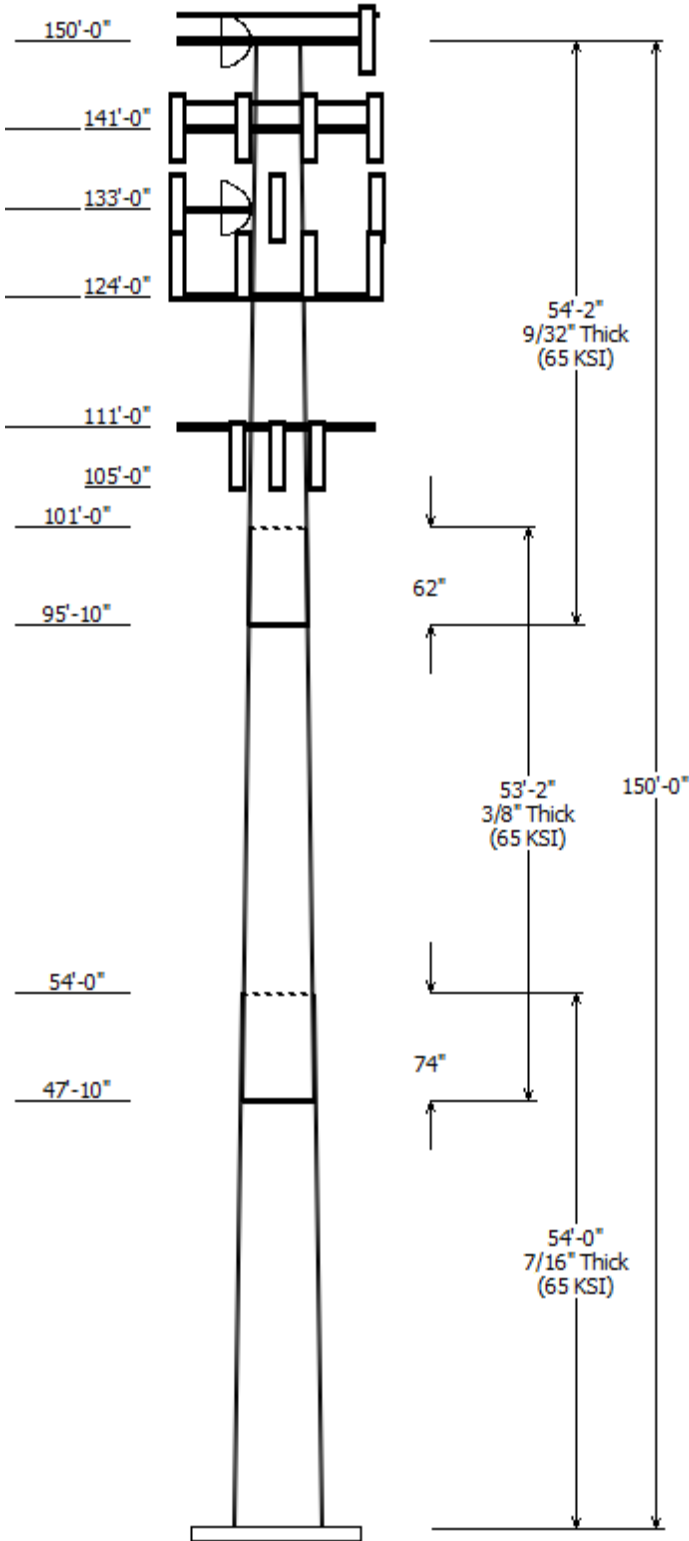
- Information supplied by the client regarding antenna, mounts and feed line loading
- Information from drawings, design and analysis documents, and field notes in the possession of A.T. Engineering Service, PLLC

It is the responsibility of the client to ensure that the information provided to A.T. Engineering Service, PLLC and used in the performance of our engineering services is correct and complete.

All assets of American Tower Corporation, its affiliates and subsidiaries (collectively "American Tower") are inspected at regular intervals. Based upon these inspections and in the absence of information to the contrary, American Tower assumes that all structures were constructed in accordance with the drawings and specifications.

Unless explicitly agreed by both the client and A.T. Engineering Service, PLLC, all services will be performed in accordance with the current revision of ANSI/TIA-222.

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

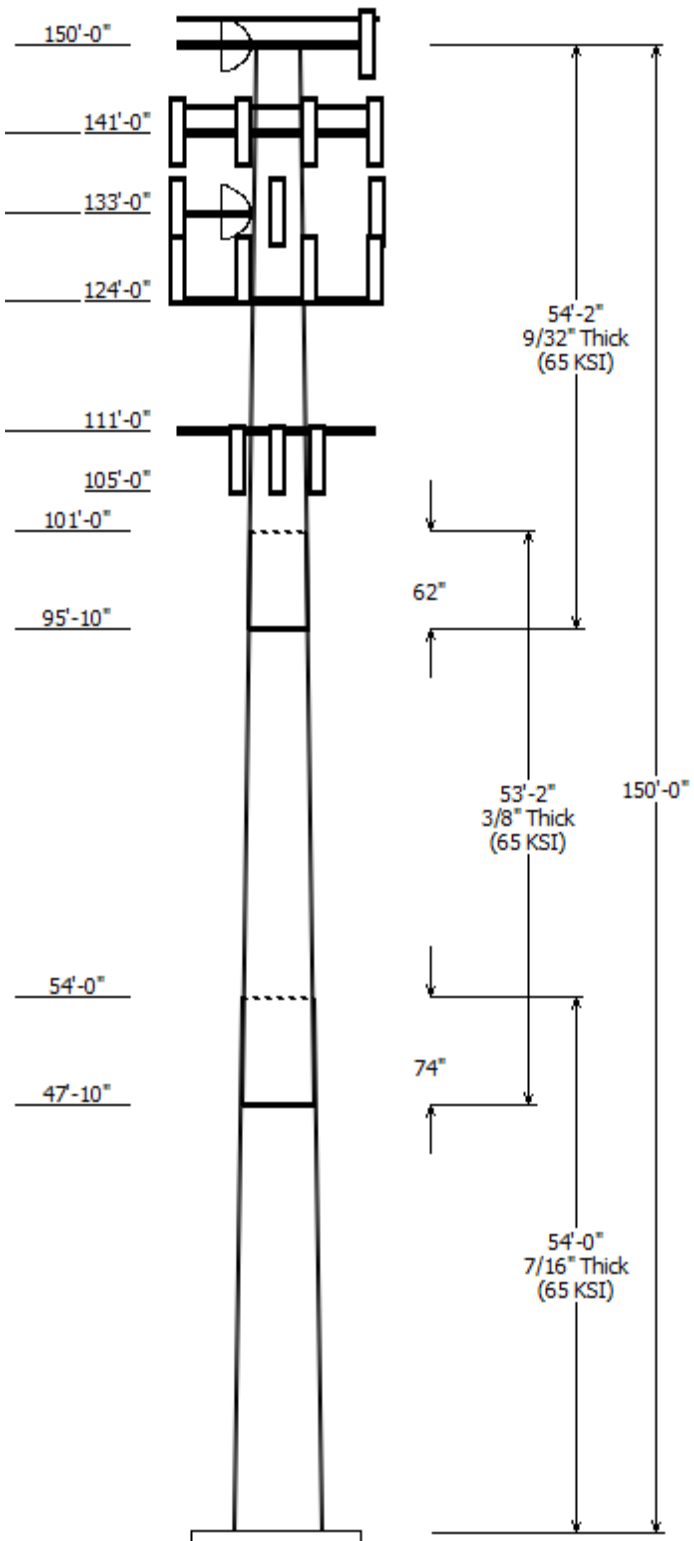


Job Information	
Client : T-MOBILE	Code: ANSI/TIA-222-H
Pole : 302538	
Location : Parsonage Hill Aka Wallin, CT	
Description :	Risk Category : II
Shape : 12 Sides	Exposure : C
Height : 150.00 (ft)	Topo Method : Method 1
Base Elev (ft): 0.00	Topographic Category : 1
Taper: 0.18200@in/ft)	

Sections Properties							
Shaft Section	Length (ft)	Diameter (in)		Thick (in)	Joint Type	Overlap Length (in)	Steel Grade (ksi)
		Across Top	Flats Bottom				
1	54.000	39.77	49.60	0.438		0.000	12 Sides 65
2	53.167	31.96	41.64	0.375	Slip Joint	74.000	12 Sides 65
3	54.167	23.61	33.47	0.281	Slip Joint	62.000	12 Sides 65

Discrete Appurtenance			
Attach Elev (ft)	Force Elev (ft)	Qty	Description
150.000	150.000	2	DragonWave Horizon Compact
150.000	150.000	1	Site Pro 1 RMQP-496-HK
150.000	150.000	3	Commscope NNVV-65B-R4
150.000	150.000	3	RFS APXVTM14-ALU-I20
150.000	150.000	1	DragonWave A-ANT-18G-2-C
150.000	150.000	3	Alcatel-Lucent TD-RRH8x20-25
150.000	150.000	3	Alcatel-Lucent 1900 MHz 4X45
150.000	150.000	6	Alcatel-Lucent RRH2x50-08
141.000	141.000	1	Sitepro 1RMQP-496-HK
141.000	141.000	3	RFS APXVAARR24_43-U-NA20
141.000	141.000	3	Ericsson AIR32 B66Aa/B2a
141.000	141.000	3	Ericsson AIR 21, 1.3M, B2A B4P
141.000	141.000	3	Ericsson Air6449 B41
141.000	141.000	3	Ericsson Radio 4449 B71 B85A
141.000	141.000	3	Ericsson RRUS 4415 B25
141.000	140.000	3	Ericsson KRY 112 144/1
133.000	133.000	1	Side Arms
133.000	133.000	1	DragonWave A-ANT-11G-2-C
133.000	133.000	3	Argus LLPX310R
133.000	133.000	3	NextNet BTS-2500
133.000	133.000	2	DragonWave Horizon Compact
124.000	124.000	1	Flat Platform w/Handrails Site
124.000	127.000	3	Kathrein Scala 80610965
124.000	127.000	6	CCI OPA-65R-LCUU-H6
124.000	127.000	3	Powerwave Allgon 7770.00
124.000	127.000	3	Ericsson RRUS 32 B30
124.000	124.000	3	Ericsson RRUS 32 B2
124.000	127.000	3	Ericsson RRUS 32 B66A
124.000	127.000	3	Ericsson RRUS-11 (50 lbs.)
124.000	127.000	1	Raycap DC6-48-60-18-8C
124.000	127.000	3	Ericsson RRUS 4478 B14 (15")
124.000	127.000	2	Raycap DC6-48-60-18-8F
124.000	127.000	6	Powerwave Allgon LGP21401
111.000	111.000	1	Empty Flat Platform w/ Handrai
105.000	109.000	3	RFS APXV18-206517S-C

Linear Appurtenance			
From Elev (ft)	To Elev (ft)	Description	Exposed To Wind
0.000	105.0	1 5/8" Coax	No
0.000	124.0	0.39" (10mm)	No
0.000	124.0	0.78" (19.7mm) 8	No
0.000	124.0	1 5/8" Coax	No



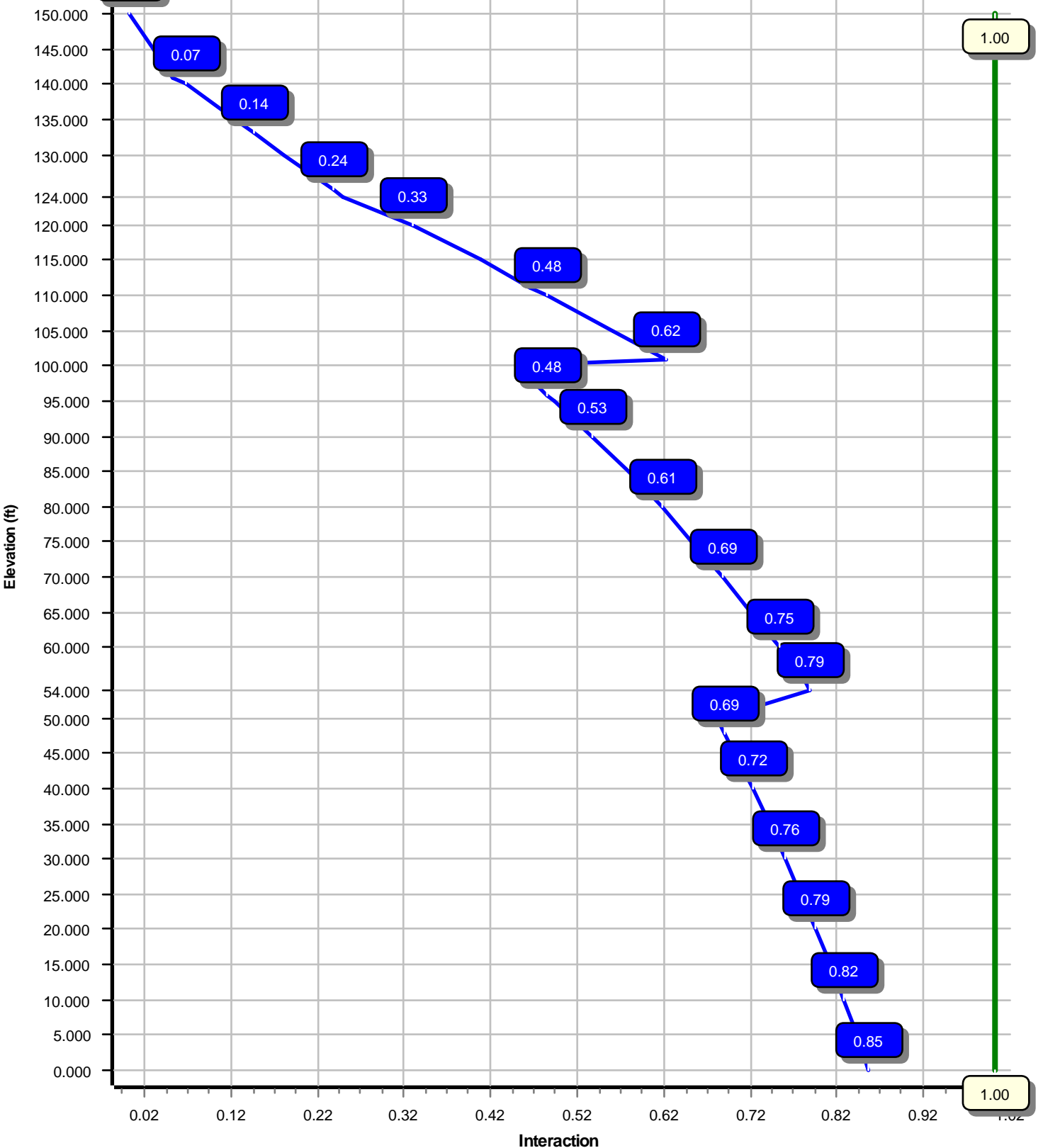
0.000	124.0	3" conduit	No
0.000	133.0	1/2" Coax	No
0.000	133.0	2" conduit	No
0.000	141.0	1 1/4" Hybriflex	No
0.000	141.0	1 1/4" Hybriflex	No
0.000	141.0	1 5/8" Coax	No
0.000	150.0	1 1/4" Hybriflex	No
0.000	150.0	1/2" Coax	No
0.000	150.0	2" conduit	No
0.000	150.0	5/16" (0.31"-	No

Load Cases	
1.2D + 1.0W	116 mph with No Ice
0.9D + 1.0W	116 mph with No Ice (Reduced DL)
1.2D + 1.0Di + 1.0Wi	49 mph with 0.85 in Radial Ice
1.2D + 1.0Ev + 1.0Eh	Seismic
0.9D - 1.0Ev + 1.0Eh	Seismic (Reduced DL)
1.0D + 1.0W	Serviceability 60 mph

Reactions			
Load Case	Moment (kip-ft)	Shear (kip)	Axial (kip)
1.2D + 1.0W	3911.26	35.53	57.70
0.9D + 1.0W	3844.22	35.49	43.26
1.2D + 1.0Di + 1.0Wi	912.01	8.15	71.25
1.2D + 1.0Ev + 1.0Eh	188.82	1.45	58.06
0.9D - 1.0Ev + 1.0Eh	184.59	1.45	39.94
1.0D + 1.0W	927.23	8.50	48.15

Dish Deflections			
Load Case	Attach Elev (ft)	Deflection (in)	Rotation (deg)
1.0D + 1.0W	133.00	22.854	1.523
1.0D + 1.0W	150.00	28.348	1.551

Load Case : 1.2D + 1.0W
Max Ratio 85.44% at 0.0 ft



Site Number: 302538

Code: ANSI/TIA-222-H

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Site Name: Parsonage Hill Aka Wallin, CT

Engineering Number: 13251802_C3_04

7/10/2020 9:55:46 AM

Customer: T-MOBILE

Analysis Parameters

Location :	New Haven County, CT	Height (ft) :	150
Code :	ANSI/TIA-222-H	Base Diameter (in) :	49.60
Shape :	12 Sides	Top Diameter (in) :	23.61
Pole Type :	Taper	Taper (in/ft) :	0.182
Pole Manufacturer :	Valmont	Rotation (deg) :	0.00
Kd (non-service) :	0.95	Ke :	0.99

Ice & Wind Parameters

Exposure Category:	C	Design Wind Speed Without Ice:	116 mph
Risk Category:	II	Design Wind Speed With Ice:	49 mph
Topographic Factor Procedure:	Method 1	Operational Wind Speed:	60 mph
Topographic Category:	1	Design Ice Thickness:	0.85 in
Crest Height:	0 ft	HMSL:	393.00 ft

Seismic Parameters

Analysis Method:	Equivalent Lateral Force Method		
Site Class:	D - Stiff Soil		
Period Based on Rayleigh Method (sec):	2.88		
T_L (sec):	6	p :	1
S_s :	0.207	S_1 :	0.055
F_a :	1.600	F_v :	2.400
S_{ds} :	0.221	S_{d1} :	0.088
		C_s :	0.030
		C_s Max:	0.030
		C_s Min:	0.030

Load Cases

1.2D + 1.0W	116 mph with No Ice
0.9D + 1.0W	116 mph with No Ice (Reduced DL)
1.2D + 1.0Di + 1.0Wi	49 mph with 0.85 in Radial Ice
1.2D + 1.0Ev + 1.0Eh	Seismic
0.9D - 1.0Ev + 1.0Eh	Seismic (Reduced DL)
1.0D + 1.0W	Serviceability 60 mph

Site Number: 302538

Code: ANSI/TIA-222-H

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Site Name: Parsonage Hill Aka Wallin, CT

Engineering Number: 13251802_C3_04

7/10/2020 9:55:46 AM

Customer: T-MOBILE

Shaft Section Properties

Sect Info	Length (ft)	Thick (in)	Fy (ksi)	Joint Type	Slip Joint Len (in)	Weight (lb)	Bottom						Top						
							Dia (in)	Elev (ft)	Area (in ²)	Ix (in ⁴)	W/t Ratio	D/t Ratio	Dia (in)	Elev (ft)	Area (in ²)	Ix (in ⁴)	W/t Ratio	D/t Ratio	Taper (in/ft)
1-12	54.000	0.4375	65		0.00	11,454	49.60	0.00	69.26	21365.7	27.70	113.37	39.77	54.00	55.41	10942.9	21.68	90.91	0.182000
2-12	53.167	0.3750	65	Slip	74.00	7,958	41.64	47.83	49.83	10833.0	27.08	111.05	31.96	101.00	38.15	4860.0	20.16	85.25	0.182000
3-12	54.167	0.2813	65	Slip	62.00	4,717	33.47	95.83	30.06	4226.0	29.21	119.01	23.61	150.00	21.13	1468.0	19.82	83.95	0.182000
Shaft Weight						24,130													

Discrete Appurtenance Properties

Attach Elev (ft)	Description	Qty	Ka	Vert Ecc (ft)	Weight (lb)	No Ice EPAa (sf)	Orientation Factor	Weight (lb)	Ice EPAa (sf)	Orientation Factor	
150.00	DragonWave Horizon Compact	2	0.75	0.000	10.60	0.720	0.50	23.35	1.042	0.50	
150.00	Alcatel-Lucent RRH2x50-08	6	0.75	0.000	52.90	1.701	0.50	86.49	2.190	0.50	
150.00	Alcatel-Lucent 1900 MHz 4X45	3	0.75	0.000	60.00	2.322	0.50	105.68	2.935	0.50	
150.00	Alcatel-Lucent TD-RRH8x20-25	3	0.75	0.000	70.00	4.046	0.50	123.57	4.799	0.50	
150.00	DragonWave A-ANT-18G-2-C	1	1.00	0.000	27.10	4.688	1.00	82.42	5.410	1.00	
150.00	RFS APXVTM14-ALU-I20	3	0.75	0.000	56.20	6.342	0.66	134.26	7.577	0.66	
150.00	Commscope NNVV-65B-R4	3	0.75	0.000	77.40	12.271	0.64	219.84	13.861	0.64	
150.00	Site Pro 1 RMQP-496-HK	1	1.00	0.000	2,448.70	27.200	1.00	3,348.04	41.057	1.00	
141.00	Ericsson KRY 112 144/1	3	0.75	-1.000	11.00	0.351	0.50	17.07	0.580	0.50	
141.00	Ericsson RRUS 4415 B25	3	0.75	0.000	46.00	1.650	0.50	70.42	2.129	0.50	
141.00	Ericsson Radio 4449 B71 B85A	3	0.75	0.000	75.00	1.650	0.50	108.93	2.129	0.50	
141.00	Ericsson Air6449 B41	3	0.75	0.000	104.00	5.682	0.63	180.88	6.577	0.63	
141.00	Ericsson AIR 21, 1.3M, B2A B4P	3	0.75	0.000	91.50	6.037	0.70	173.63	7.247	0.70	
141.00	Ericsson AIR32 B66Aa/B2a	3	0.75	0.000	132.20	6.510	0.71	222.24	7.746	0.71	
141.00	RFS APXVAARR24_43-U-NA20	3	0.75	0.000	127.90	20.243	0.63	349.37	22.335	0.63	
141.00	Sitepro 1RMQP-496-HK Platform	1	1.00	0.000	2,500.00	42.400	1.00	3,502.16	54.231	1.00	
133.00	DragonWave Horizon Compact	2	0.80	0.000	10.60	0.721	0.50	23.20	1.040	0.50	
133.00	NextNet BTS-2500	3	0.80	0.000	35.00	1.817	0.50	60.99	2.331	0.50	
133.00	Argus LLPX310R	3	0.80	0.000	28.60	4.292	0.63	79.10	5.219	0.63	
133.00	DragonWave A-ANT-11G-2-C	1	1.00	0.000	27.00	4.688	1.00	81.61	5.402	1.00	
133.00	Side Arms	1	1.00	0.000	560.00	8.500	1.00	822.36	12.482	1.00	
124.00	Powerwave Allgon LGP21401	6	0.75	3.000	14.10	1.104	0.50	27.98	1.501	0.50	
124.00	Raycap DC6-48-60-18-8F	2	0.75	3.000	31.80	1.470	0.50	66.12	1.858	0.50	
124.00	Ericsson RRUS 4478 B14 (15")	3	0.75	3.000	59.40	1.650	0.50	87.04	2.121	0.50	
124.00	Raycap DC6-48-60-18-8C	1	0.75	3.000	16.00	2.030	0.50	48.38	2.452	0.50	
124.00	Ericsson RRUS-11 (50 lbs.)	3	0.75	3.000	50.00	2.566	0.50	87.92	3.149	0.50	
124.00	Ericsson RRUS 32 B66A	3	0.75	3.000	50.70	2.720	0.50	91.47	3.367	0.50	
124.00	Ericsson RRUS 32 B2	3	0.75	0.000	53.00	2.743	0.50	93.91	3.393	0.50	
124.00	Ericsson RRUS 32 B30	3	0.75	3.000	60.00	2.743	0.50	100.92	3.393	0.50	
124.00	Powerwave Allgon 7770.00	3	0.75	3.000	35.00	5.508	0.65	102.58	6.075	0.65	
124.00	CCI OPA-65R-LCUU-H6	6	0.75	3.000	73.00	9.658	0.66	186.20	11.200	0.66	
124.00	Kathrein Scala 80010965	3	0.75	3.000	97.60	13.814	0.62	245.89	15.511	0.62	
124.00	Flat Platform w/Handrails	1	1.00	0.000	3,000.00	49.620	1.00	4,185.73	63.271	1.00	
111.00	Empty Flat Platform w/ Handrails	1	1.00	0.000	2,000.00	42.400	1.00	2,782.70	53.950	1.00	
105.00	RFS APXV18-206517S-C	3	1.00	4.000	26.40	5.160	0.68	77.07	6.454	0.68	
Totals	Num Loadings:35				95			15,565.50			25,081.12

Linear Appurtenance Properties

Load Case Azimuth (deg) :

Elev From (ft)	Elev To (ft)	Qty	Description	Coax Dia (in)	Coax Wt (lb/ft)	Max Coax / Flat Row	Dist Between Rows (in)	Dist Between Cols (in)	Azimuth (deg)	Dist From Face (in)	Dist Exposed To Wind Carrier
0.00	150.00	4	1 1/4" Hybriflex Cable	1.54	1.00	N 0	0.00	0.00	0	0.00	N CLEARWIRE
0.00	150.00	2	1/2" Coax	0.63	0.15	N 0	0.00	0.00	0	0.00	N CLEARWIRE
0.00	150.00	2	2" conduit	2.38	3.65	N 0	0.00	0.00	0	0.00	N CLEARWIRE

Site Number: 302538

Code: ANSI/TIA-222-H

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Site Name: Parsonage Hill Aka Wallin, CT

Engineering Number: 13251802_C3_04

7/10/2020 9:55:46 AM

Customer: T-MOBILE

0.00	150.00	12	5/16" (0.31"-7.9mm)	0.31	0.05	N	0	0.00	0.00	0	0.00	N	CLEARWIRE
0.00	141.00	1	1 1/4" Hybriflex Cable	1.54	1.00	N	0	0.00	0.00	0	0.00	N	T-MOBILE
0.00	141.00	5	1 1/4" Hybriflex Cable	1.54	1.00	N	0	0.00	0.00	0	0.00	N	T-MOBILE
0.00	141.00	6	1 5/8" Coax	1.98	0.82	N	0	0.00	0.00	0	0.00	N	T-MOBILE
0.00	133.00	2	1/2" Coax	0.63	0.15	N	0	0.00	0.00	0	0.00	N	CLEARWIRE
0.00	133.00	2	2" conduit	2.38	3.65	N	0	0.00	0.00	0	0.00	N	CLEARWIRE
0.00	124.00	3	0.39" (10mm) Fiber	0.39	0.06	N	0	0.00	0.00	0	0.00	N	AT&T MOBILITY
0.00	124.00	6	0.78" (19.7mm) 8 AWG	0.78	0.59	N	0	0.00	0.00	0	0.00	N	AT&T MOBILITY
0.00	124.00	12	1 5/8" Coax	1.98	0.82	N	0	0.00	0.00	0	0.00	N	AT&T MOBILITY
0.00	124.00	2	3" conduit	3.50	7.58	N	0	0.00	0.00	0	0.00	N	AT&T MOBILITY
0.00	105.00	6	1 5/8" Coax	1.98	0.82	N	0	0.00	0.00	0	0.00	N	METRO PCS INC

Segment Properties (Max Len : 5.ft)

Seg Top Elev (ft)	Description	Thick (in)	Flat Dia (in)	Area (in ²)	Ix (in ⁴)	W/t Ratio	D/t Ratio	F'y (ksi)	S (in ³)	Z (in ³)	Weight (lb)
0.00		0.4375	49.600	69.257	21,365.7	27.70	113.37	74.5	832.2	0.0	0.0
5.00		0.4375	48.690	67.975	20,201.1	27.14	111.29	75.1	801.5	0.0	1,167.4
10.00		0.4375	47.780	66.693	19,079.5	26.58	109.21	75.7	771.4	0.0	1,145.6
15.00		0.4375	46.870	65.412	18,000.3	26.03	107.13	76.3	741.9	0.0	1,123.8
20.00		0.4375	45.960	64.130	16,962.6	25.47	105.05	76.9	713.0	0.0	1,102.0
25.00		0.4375	45.050	62.848	15,965.5	24.91	102.97	77.5	684.6	0.0	1,080.2
30.00		0.4375	44.140	61.566	15,008.3	24.35	100.89	78.2	656.9	0.0	1,058.4
35.00		0.4375	43.230	60.284	14,090.2	23.80	98.81	78.8	629.7	0.0	1,036.6
40.00		0.4375	42.320	59.002	13,210.3	23.24	96.73	79.4	603.0	0.0	1,014.8
45.00		0.4375	41.410	57.720	12,367.8	22.68	94.65	80.0	577.0	0.0	992.9
47.83	Bot - Section 2	0.4375	40.894	56.993	11,906.6	22.37	93.47	80.3	562.5	0.0	553.0
50.00		0.4375	40.500	56.438	11,561.9	22.12	92.57	80.6	551.5	0.0	783.8
54.00	Top - Section 1	0.3750	40.522	48.477	9,973.0	26.27	108.06	76.1	475.5	0.0	1,427.0
55.00		0.3750	40.340	48.257	9,838.0	26.14	107.57	76.2	471.1	0.0	164.6
60.00		0.3750	39.430	47.159	9,181.1	25.49	105.15	76.9	449.8	0.0	811.7
65.00		0.3750	38.520	46.060	8,554.2	24.84	102.72	77.6	429.0	0.0	793.0
70.00		0.3750	37.610	44.961	7,956.5	24.19	100.29	78.3	408.7	0.0	774.3
75.00		0.3750	36.700	43.862	7,387.3	23.54	97.87	79.0	388.9	0.0	755.6
80.00		0.3750	35.790	42.763	6,845.9	22.89	95.44	79.7	369.5	0.0	736.9
85.00		0.3750	34.880	41.665	6,331.6	22.24	93.01	80.5	350.7	0.0	718.2
90.00		0.3750	33.970	40.566	5,843.7	21.59	90.59	81.2	332.3	0.0	699.5
95.00		0.3750	33.060	39.467	5,381.6	20.94	88.16	81.9	314.5	0.0	680.8
95.83	Bot - Section 3	0.3750	32.908	39.284	5,307.0	20.83	87.76	81.9	311.5	0.0	111.7
100.00		0.3750	32.150	38.368	4,944.5	20.29	85.73	81.9	297.1	0.0	971.8
101.00	Top - Section 2	0.2813	32.530	29.206	3,876.9	28.31	115.66	73.8	230.2	0.0	229.8
105.00		0.2813	31.802	28.546	3,620.2	27.62	113.07	74.6	219.9	0.0	393.0
110.00		0.2813	30.892	27.722	3,315.7	26.75	109.84	75.5	207.3	0.0	478.7
111.00		0.2813	30.710	27.557	3,256.9	26.58	109.19	75.7	204.9	0.0	94.1
115.00		0.2813	29.982	26.898	3,028.7	25.88	106.60	76.5	195.1	0.0	370.6
120.00		0.2813	29.072	26.074	2,758.7	25.02	103.37	77.4	183.3	0.0	450.6
124.00		0.2813	28.344	25.415	2,554.7	24.32	100.78	78.2	174.1	0.0	350.4
125.00		0.2813	28.162	25.250	2,505.3	24.15	100.13	78.4	171.9	0.0	86.2
130.00		0.2813	27.252	24.426	2,267.9	23.28	96.90	79.3	160.8	0.0	422.6
133.00		0.2813	26.706	23.931	2,133.0	22.76	94.96	79.9	154.3	0.0	246.8
135.00		0.2813	26.342	23.602	2,046.0	22.42	93.66	80.3	150.0	0.0	161.7
140.00		0.2813	25.432	22.777	1,839.1	21.55	90.43	81.2	139.7	0.0	394.5
141.00		0.2813	25.250	22.613	1,799.5	21.38	89.78	81.4	137.7	0.0	77.2
145.00		0.2813	24.522	21.953	1,646.6	20.68	87.19	81.9	129.7	0.0	303.3
150.00		0.2813	23.612	21.129	1,468.0	19.82	83.95	81.9	120.1	0.0	366.5
24,129.8											

Load Case: 1.2D + 1.0W	116 mph with No Ice	25 Iterations
Gust Response Factor :1.10		
Dead Load Factor :1.20		
Wind Load Factor :1.00		

Applied Segment Forces Summary

Seg Elev (ft)	Description	Shaft Forces		Discrete Forces			Linear Forces		Sum of Forces				
		Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Torsion MY (lb-ft)	Moment MZ (lb)
0.00		303.8	0.0					0.0	0.0	303.8	0.0	0.0	0.0
5.00		601.9	1,400.9					0.0	386.2	601.9	1,787.1	0.0	0.0
10.00		590.6	1,374.7					0.0	386.2	590.6	1,760.9	0.0	0.0
15.00		588.5	1,348.6					0.0	386.2	588.5	1,734.7	0.0	0.0
20.00		601.9	1,322.4					0.0	386.2	601.9	1,708.6	0.0	0.0
25.00		618.7	1,296.2					0.0	386.2	618.7	1,682.4	0.0	0.0
30.00		630.1	1,270.1					0.0	386.2	630.1	1,656.2	0.0	0.0
35.00		637.5	1,243.9					0.0	386.2	637.5	1,630.0	0.0	0.0
40.00		642.0	1,217.7					0.0	386.2	642.0	1,603.9	0.0	0.0
45.00		504.4	1,191.5					0.0	386.2	504.4	1,577.7	0.0	0.0
47.83	Bot - Section 2	324.8	663.6					0.0	218.8	324.8	882.4	0.0	0.0
50.00		404.5	940.5					0.0	167.3	404.5	1,107.9	0.0	0.0
54.00	Top - Section 1	327.8	1,712.4					0.0	308.9	327.8	2,021.3	0.0	0.0
55.00		392.2	197.5					0.0	77.2	392.2	274.7	0.0	0.0
60.00		651.6	974.0					0.0	386.2	651.6	1,360.2	0.0	0.0
65.00		647.4	951.6					0.0	386.2	647.4	1,337.8	0.0	0.0
70.00		642.1	929.2					0.0	386.2	642.1	1,315.3	0.0	0.0
75.00		635.7	906.7					0.0	386.2	635.7	1,292.9	0.0	0.0
80.00		628.4	884.3					0.0	386.2	628.4	1,270.5	0.0	0.0
85.00		620.3	861.9					0.0	386.2	620.3	1,248.0	0.0	0.0
90.00		611.5	839.4					0.0	386.2	611.5	1,225.6	0.0	0.0
95.00		353.5	817.0					0.0	386.2	353.5	1,203.2	0.0	0.0
95.83	Bot - Section 3	302.8	134.0					0.0	64.4	302.8	198.3	0.0	0.0
100.00		312.8	1,166.1					0.0	321.8	312.8	1,487.9	0.0	0.0
101.00	Top - Section 2	298.4	275.8					0.0	77.2	298.4	353.0	0.0	0.0
105.00	Appurtenance(s)	531.2	471.6	481.5	0.0	1,925.8	95.0	0.0	308.9	1,012.7	875.6	0.0	0.0
110.00		350.8	574.4					0.0	356.6	350.8	931.0	0.0	0.0
111.00	Appurtenance(s)	287.1	112.9	1,946.7	0.0	0.0	2,400.0	0.0	71.3	2,233.9	2,584.2	0.0	0.0
115.00		510.4	444.7					0.0	285.3	510.4	730.0	0.0	0.0
120.00		501.5	540.8					0.0	356.6	501.5	897.4	0.0	0.0
124.00	Appurtenance(s)	274.9	420.5	5,842.2	0.0	10,095.7	5,783.2	0.0	285.3	6,117.1	6,489.0	0.0	0.0
125.00		322.8	103.4					0.0	36.9	322.8	140.3	0.0	0.0
130.00		426.2	507.1					0.0	184.3	426.2	691.4	0.0	0.0
133.00	Appurtenance(s)	261.7	296.2	1,070.0	0.0	0.0	958.8	0.0	110.6	1,331.7	1,365.6	0.0	0.0
135.00		358.6	194.1					0.0	55.5	358.6	249.6	0.0	0.0
140.00		304.9	473.5					0.0	138.7	304.9	612.2	0.0	0.0
141.00	Appurtenance(s)	247.7	92.7	4,981.2	0.0	-19.0	5,115.4	0.0	27.7	5,228.9	5,235.8	0.0	0.0
145.00		437.9	364.0					0.0	58.6	437.9	422.5	0.0	0.0
150.00	Appurtenance(s)	240.4	439.8	3,449.1	0.0	0.0	4,326.2	0.0	73.2	3,689.5	4,839.2	0.0	0.0
								Totals:		35,699.7	57,784.4	0.00	0.00

Load Case: 1.2D + 1.0W

116 mph with No Ice

25 Iterations

Gust Response Factor :1.10

Dead Load Factor :1.20

Wind Load Factor :1.00

Calculated Forces

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-57.70	-35.53	0.00	-3,911.26	0.00	3,911.26	4,644.06	1,215.47	5,637.04	4,650.09	0.00	0.00	0.854
5.00	-55.76	-35.17	0.00	-3,733.63	0.00	3,733.63	4,595.29	1,192.97	5,430.35	4,515.33	0.14	-0.25	0.840
10.00	-53.85	-34.81	0.00	-3,557.79	0.00	3,557.79	4,545.11	1,170.47	5,227.52	4,381.04	0.54	-0.51	0.825
15.00	-51.97	-34.44	0.00	-3,383.74	0.00	3,383.74	4,493.53	1,147.97	5,028.55	4,247.31	1.21	-0.77	0.809
20.00	-50.11	-34.04	0.00	-3,211.55	0.00	3,211.55	4,440.55	1,125.47	4,833.44	4,114.20	2.16	-1.03	0.793
25.00	-48.29	-33.61	0.00	-3,041.37	0.00	3,041.37	4,386.17	1,102.97	4,642.19	3,981.80	3.38	-1.29	0.776
30.00	-46.50	-33.15	0.00	-2,873.33	0.00	2,873.33	4,330.38	1,080.48	4,454.80	3,850.19	4.88	-1.56	0.758
35.00	-44.73	-32.67	0.00	-2,707.58	0.00	2,707.58	4,273.19	1,057.98	4,271.27	3,719.45	6.65	-1.82	0.739
40.00	-43.01	-32.18	0.00	-2,544.22	0.00	2,544.22	4,214.59	1,035.48	4,091.60	3,589.65	8.70	-2.09	0.720
45.00	-41.33	-31.76	0.00	-2,383.34	0.00	2,383.34	4,154.60	1,012.98	3,915.80	3,460.87	11.02	-2.35	0.700
47.83	-40.39	-31.49	0.00	-2,293.36	0.00	2,293.36	4,119.98	1,000.23	3,817.89	3,388.38	12.46	-2.50	0.688
50.00	-39.21	-31.15	0.00	-2,225.12	0.00	2,225.12	4,093.20	990.48	3,743.85	3,333.19	13.63	-2.62	0.678
54.00	-37.14	-30.82	0.00	-2,100.51	0.00	2,100.51	3,318.39	850.78	3,222.22	2,712.18	15.91	-2.83	0.787
55.00	-36.79	-30.52	0.00	-2,069.69	0.00	2,069.69	3,309.51	846.92	3,193.08	2,692.55	16.51	-2.89	0.781
60.00	-35.32	-29.98	0.00	-1,917.08	0.00	1,917.08	3,264.25	827.63	3,049.37	2,594.69	19.69	-3.18	0.751
65.00	-33.87	-29.42	0.00	-1,767.20	0.00	1,767.20	3,217.59	808.35	2,908.96	2,497.44	23.17	-3.46	0.719
70.00	-32.46	-28.86	0.00	-1,620.10	0.00	1,620.10	3,169.52	789.07	2,771.87	2,400.88	26.94	-3.74	0.686
75.00	-31.08	-28.28	0.00	-1,475.82	0.00	1,475.82	3,120.06	769.78	2,638.08	2,305.07	31.01	-4.02	0.652
80.00	-29.73	-27.70	0.00	-1,334.41	0.00	1,334.41	3,069.19	750.50	2,507.61	2,210.10	35.36	-4.29	0.615
85.00	-28.41	-27.12	0.00	-1,195.90	0.00	1,195.90	3,016.92	731.21	2,380.44	2,116.06	39.99	-4.55	0.576
90.00	-27.13	-26.52	0.00	-1,060.32	0.00	1,060.32	2,963.24	711.93	2,256.58	2,023.00	44.89	-4.81	0.535
95.00	-25.89	-26.13	0.00	-927.70	0.00	927.70	2,909.11	692.64	2,136.03	1,931.65	50.05	-5.05	0.491
95.83	-25.67	-25.87	0.00	-905.92	0.00	905.92	2,895.61	689.43	2,116.26	1,913.67	50.94	-5.09	0.484
100.00	-24.17	-25.47	0.00	-798.15	0.00	798.15	2,828.11	673.36	2,018.79	1,825.00	55.46	-5.28	0.447
101.00	-23.79	-25.18	0.00	-772.69	0.00	772.69	1,940.77	512.56	1,559.30	1,274.97	56.57	-5.32	0.621
105.00	-22.93	-24.18	0.00	-670.03	0.00	670.03	1,916.40	500.99	1,489.72	1,230.29	61.10	-5.49	0.559
110.00	-21.98	-23.79	0.00	-549.15	0.00	549.15	1,884.66	486.52	1,404.97	1,174.68	66.97	-5.73	0.482
111.00	-19.59	-21.34	0.00	-525.36	0.00	525.36	1,878.15	483.63	1,388.32	1,163.59	68.18	-5.78	0.464
115.00	-18.85	-20.82	0.00	-439.99	0.00	439.99	1,851.53	472.06	1,322.70	1,119.40	73.08	-5.95	0.405
120.00	-17.96	-20.27	0.00	-335.89	0.00	335.89	1,816.99	457.60	1,242.92	1,064.55	79.40	-6.13	0.327
124.00	-12.15	-13.51	0.00	-244.69	0.00	244.69	1,788.35	446.03	1,180.88	1,021.02	84.59	-6.25	0.247
125.00	-12.03	-13.19	0.00	-231.19	0.00	231.19	1,781.05	443.13	1,165.61	1,010.19	85.90	-6.28	0.236
130.00	-11.38	-12.70	0.00	-165.25	0.00	165.25	1,743.70	428.67	1,090.79	956.41	92.52	-6.39	0.180
133.00	-10.16	-11.23	0.00	-127.14	0.00	127.14	1,720.62	419.99	1,047.09	924.45	96.55	-6.45	0.144
135.00	-9.94	-10.86	0.00	-104.67	0.00	104.67	1,704.95	414.21	1,018.45	903.28	99.25	-6.48	0.122
140.00	-9.36	-10.49	0.00	-50.38	0.00	50.38	1,664.80	399.74	948.60	850.88	106.05	-6.53	0.066
141.00	-4.76	-4.70	0.00	-39.89	0.00	39.89	1,656.61	396.85	934.92	840.49	107.42	-6.54	0.050
145.00	-4.39	-4.22	0.00	-21.09	0.00	21.09	1,618.18	385.28	881.22	796.79	112.89	-6.56	0.029
150.00	0.00	-3.69	0.00	0.00	0.00	0.00	1,557.43	370.82	816.33	737.76	119.75	-6.57	0.000

Load Case: 0.9D + 1.0W	116 mph with No Ice (Reduced DL)	25 Iterations
Gust Response Factor :1.10		
Dead Load Factor :0.90		
Wind Load Factor :1.00		

Applied Segment Forces Summary

Seg Elev (ft)	Description	Shaft Forces		Discrete Forces			Linear Forces		Sum of Forces				
		Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Torsion MY (lb-ft)	Moment MZ (lb)
0.00		303.8	0.0					0.0	0.0	303.8	0.0	0.0	0.0
5.00		601.9	1,050.7					0.0	289.6	601.9	1,340.3	0.0	0.0
10.00		590.6	1,031.1					0.0	289.6	590.6	1,320.7	0.0	0.0
15.00		588.5	1,011.4					0.0	289.6	588.5	1,301.0	0.0	0.0
20.00		601.9	991.8					0.0	289.6	601.9	1,281.4	0.0	0.0
25.00		618.7	972.2					0.0	289.6	618.7	1,261.8	0.0	0.0
30.00		630.1	952.5					0.0	289.6	630.1	1,242.2	0.0	0.0
35.00		637.5	932.9					0.0	289.6	637.5	1,222.5	0.0	0.0
40.00		642.0	913.3					0.0	289.6	642.0	1,202.9	0.0	0.0
45.00		504.4	893.6					0.0	289.6	504.4	1,183.3	0.0	0.0
47.83	Bot - Section 2	324.8	497.7					0.0	164.1	324.8	661.8	0.0	0.0
50.00		404.5	705.4					0.0	125.5	404.5	830.9	0.0	0.0
54.00	Top - Section 1	327.8	1,284.3					0.0	231.7	327.8	1,516.0	0.0	0.0
55.00		392.2	148.1					0.0	57.9	392.2	206.0	0.0	0.0
60.00		651.6	730.5					0.0	289.6	651.6	1,020.1	0.0	0.0
65.00		647.4	713.7					0.0	289.6	647.4	1,003.3	0.0	0.0
70.00		642.1	696.9					0.0	289.6	642.1	986.5	0.0	0.0
75.00		635.7	680.1					0.0	289.6	635.7	969.7	0.0	0.0
80.00		628.4	663.2					0.0	289.6	628.4	952.8	0.0	0.0
85.00		620.3	646.4					0.0	289.6	620.3	936.0	0.0	0.0
90.00		611.5	629.6					0.0	289.6	611.5	919.2	0.0	0.0
95.00		353.5	612.7					0.0	289.6	353.5	902.4	0.0	0.0
95.83	Bot - Section 3	302.8	100.5					0.0	48.3	302.8	148.8	0.0	0.0
100.00		312.8	874.6					0.0	241.3	312.8	1,115.9	0.0	0.0
101.00	Top - Section 2	298.4	206.9					0.0	57.9	298.4	264.8	0.0	0.0
105.00	Appurtenance(s)	531.2	353.7	481.5	0.0	1,925.8	71.3	0.0	231.7	1,012.7	656.7	0.0	0.0
110.00		350.8	430.8					0.0	267.5	350.8	698.3	0.0	0.0
111.00	Appurtenance(s)	287.1	84.6	1,946.7	0.0	0.0	1,800.0	0.0	53.5	2,233.9	1,938.1	0.0	0.0
115.00		510.4	333.5					0.0	214.0	510.4	547.5	0.0	0.0
120.00		501.5	405.6					0.0	267.5	501.5	673.0	0.0	0.0
124.00	Appurtenance(s)	274.9	315.4	5,842.2	0.0	10,095.7	4,337.4	0.0	214.0	6,117.1	4,866.7	0.0	0.0
125.00		322.8	77.6					0.0	27.6	322.8	105.2	0.0	0.0
130.00		426.2	380.3					0.0	138.2	426.2	518.6	0.0	0.0
133.00	Appurtenance(s)	261.7	222.1	1,070.0	0.0	0.0	719.1	0.0	82.9	1,331.7	1,024.2	0.0	0.0
135.00		358.6	145.6					0.0	41.6	358.6	187.2	0.0	0.0
140.00		304.9	355.1					0.0	104.0	304.9	459.1	0.0	0.0
141.00	Appurtenance(s)	247.7	69.5	4,981.2	0.0	-19.0	3,836.5	0.0	20.8	5,228.9	3,926.8	0.0	0.0
145.00		437.9	273.0					0.0	43.9	437.9	316.9	0.0	0.0
150.00	Appurtenance(s)	240.4	329.9	3,449.1	0.0	0.0	3,244.7	0.0	54.9	3,689.5	3,629.4	0.0	0.0
Totals:										35,699.7	43,338.3	0.00	0.00

Load Case: 0.9D + 1.0W

116 mph with No Ice (Reduced DL)

25 Iterations

Gust Response Factor :1.10

Dead Load Factor :0.90

Wind Load Factor :1.00

Calculated Forces

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-43.26	-35.49	0.00	-3,844.22	0.00	3,844.22	4,644.06	1,215.47	5,637.04	4,650.09	0.00	0.00	0.837
5.00	-41.77	-35.07	0.00	-3,666.76	0.00	3,666.76	4,595.29	1,192.97	5,430.35	4,515.33	0.13	-0.25	0.822
10.00	-40.30	-34.65	0.00	-3,491.41	0.00	3,491.41	4,545.11	1,170.47	5,227.52	4,381.04	0.53	-0.50	0.807
15.00	-38.85	-34.22	0.00	-3,318.16	0.00	3,318.16	4,493.53	1,147.97	5,028.55	4,247.31	1.19	-0.76	0.791
20.00	-37.43	-33.77	0.00	-3,147.07	0.00	3,147.07	4,440.55	1,125.47	4,833.44	4,114.20	2.12	-1.01	0.774
25.00	-36.03	-33.28	0.00	-2,978.24	0.00	2,978.24	4,386.17	1,102.97	4,642.19	3,981.80	3.32	-1.27	0.757
30.00	-34.66	-32.78	0.00	-2,811.82	0.00	2,811.82	4,330.38	1,080.48	4,454.80	3,850.19	4.79	-1.53	0.739
35.00	-33.31	-32.26	0.00	-2,647.92	0.00	2,647.92	4,273.19	1,057.98	4,271.27	3,719.45	6.52	-1.78	0.721
40.00	-31.98	-31.72	0.00	-2,486.63	0.00	2,486.63	4,214.59	1,035.48	4,091.60	3,589.65	8.53	-2.04	0.701
45.00	-30.71	-31.28	0.00	-2,328.02	0.00	2,328.02	4,154.60	1,012.98	3,915.80	3,460.87	10.81	-2.30	0.681
47.83	-29.99	-31.00	0.00	-2,239.38	0.00	2,239.38	4,119.98	1,000.23	3,817.89	3,388.38	12.22	-2.45	0.669
50.00	-29.09	-30.64	0.00	-2,172.22	0.00	2,172.22	4,093.20	990.48	3,743.85	3,333.19	13.36	-2.57	0.660
54.00	-27.52	-30.31	0.00	-2,049.66	0.00	2,049.66	3,318.39	850.78	3,222.22	2,712.18	15.60	-2.77	0.765
55.00	-27.25	-29.98	0.00	-2,019.35	0.00	2,019.35	3,309.51	846.92	3,193.08	2,692.55	16.19	-2.83	0.759
60.00	-26.12	-29.41	0.00	-1,869.43	0.00	1,869.43	3,264.25	827.63	3,049.37	2,594.69	19.30	-3.11	0.730
65.00	-25.02	-28.83	0.00	-1,722.40	0.00	1,722.40	3,217.59	808.35	2,908.96	2,497.44	22.70	-3.39	0.699
70.00	-23.94	-28.24	0.00	-1,578.27	0.00	1,578.27	3,169.52	789.07	2,771.87	2,400.88	26.39	-3.66	0.666
75.00	-22.88	-27.65	0.00	-1,437.08	0.00	1,437.08	3,120.06	769.78	2,638.08	2,305.07	30.37	-3.93	0.632
80.00	-21.86	-27.05	0.00	-1,298.85	0.00	1,298.85	3,069.19	750.50	2,507.61	2,210.10	34.62	-4.19	0.596
85.00	-20.85	-26.45	0.00	-1,163.59	0.00	1,163.59	3,016.92	731.21	2,380.44	2,116.06	39.15	-4.45	0.558
90.00	-19.88	-25.86	0.00	-1,031.32	0.00	1,031.32	2,963.24	711.93	2,256.58	2,023.00	43.94	-4.70	0.518
95.00	-18.95	-25.47	0.00	-902.05	0.00	902.05	2,909.11	692.64	2,136.03	1,931.65	48.98	-4.93	0.475
95.83	-18.78	-25.19	0.00	-880.82	0.00	880.82	2,895.61	689.43	2,116.26	1,913.67	49.84	-4.97	0.468
100.00	-17.64	-24.82	0.00	-775.84	0.00	775.84	2,828.11	673.36	2,018.79	1,825.00	54.26	-5.16	0.433
101.00	-17.36	-24.53	0.00	-751.02	0.00	751.02	1,940.77	512.56	1,559.30	1,274.97	55.34	-5.20	0.600
105.00	-16.72	-23.52	0.00	-650.98	0.00	650.98	1,916.40	500.99	1,489.72	1,230.29	59.77	-5.36	0.540
110.00	-16.00	-23.14	0.00	-533.38	0.00	533.38	1,884.66	486.52	1,404.97	1,174.68	65.50	-5.60	0.465
111.00	-14.25	-20.76	0.00	-510.24	0.00	510.24	1,878.15	483.63	1,388.32	1,163.59	66.68	-5.64	0.448
115.00	-13.70	-20.23	0.00	-427.21	0.00	427.21	1,851.53	472.06	1,322.70	1,119.40	71.47	-5.81	0.391
120.00	-13.03	-19.70	0.00	-326.04	0.00	326.04	1,816.99	457.60	1,242.92	1,064.55	77.64	-5.98	0.315
124.00	-8.82	-13.11	0.00	-237.15	0.00	237.15	1,788.35	446.03	1,180.88	1,021.02	82.70	-6.10	0.238
125.00	-8.73	-12.79	0.00	-224.04	0.00	224.04	1,781.05	443.13	1,165.61	1,010.19	83.97	-6.13	0.228
130.00	-8.25	-12.33	0.00	-160.07	0.00	160.07	1,743.70	428.67	1,090.79	956.41	90.44	-6.24	0.173
133.00	-7.37	-10.89	0.00	-123.10	0.00	123.10	1,720.62	419.99	1,047.09	924.45	94.37	-6.29	0.138
135.00	-7.21	-10.52	0.00	-101.31	0.00	101.31	1,704.95	414.21	1,018.45	903.28	97.00	-6.32	0.117
140.00	-6.79	-10.17	0.00	-48.69	0.00	48.69	1,664.80	399.74	948.60	850.88	103.64	-6.37	0.062
141.00	-3.46	-4.54	0.00	-38.52	0.00	38.52	1,656.61	396.85	934.92	840.49	104.97	-6.38	0.048
145.00	-3.20	-4.07	0.00	-20.36	0.00	20.36	1,618.18	385.28	881.22	796.79	110.31	-6.40	0.028
150.00	0.00	-3.69	0.00	0.00	0.00	0.00	1,557.43	370.82	816.33	737.76	117.00	-6.40	0.000

Load Case: 1.2D + 1.0Di + 1.0Wi	49 mph with 0.85 in Radial Ice	24 Iterations
Gust Response Factor :1.10	Ice Dead Load Factor :1.00	
Dead Load Factor :1.20		Ice Importance Factor :1.00
Wind Load Factor :1.00		

Applied Segment Forces Summary

Seg Elev (ft)	Description	Shaft Forces		Discrete Forces			Linear Forces		Sum of Forces				
		Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Torsion MY (lb-ft)	Moment MZ (lb)
0.00		70.2	0.0					0.0	0.0	70.2	0.0	0.0	0.0
5.00		139.4	1,610.9					0.0	386.2	139.4	1,997.0	0.0	0.0
10.00		137.2	1,605.1					0.0	386.2	137.2	1,991.3	0.0	0.0
15.00		136.9	1,586.6					0.0	386.2	136.9	1,972.8	0.0	0.0
20.00		140.3	1,564.0					0.0	386.2	140.3	1,950.2	0.0	0.0
25.00		144.4	1,539.3					0.0	386.2	144.4	1,925.5	0.0	0.0
30.00		147.2	1,513.2					0.0	386.2	147.2	1,899.4	0.0	0.0
35.00		149.2	1,486.2					0.0	386.2	149.2	1,872.4	0.0	0.0
40.00		150.4	1,458.5					0.0	386.2	150.4	1,844.7	0.0	0.0
45.00		118.3	1,430.3					0.0	386.2	118.3	1,816.5	0.0	0.0
47.83	Bot - Section 2	76.2	798.4					0.0	218.8	76.2	1,017.3	0.0	0.0
50.00		95.0	1,045.1					0.0	167.3	95.0	1,212.4	0.0	0.0
54.00	Top - Section 1	77.0	1,903.3					0.0	308.9	77.0	2,212.2	0.0	0.0
55.00		92.2	245.2					0.0	77.2	92.2	322.5	0.0	0.0
60.00		153.4	1,208.7					0.0	386.2	153.4	1,594.9	0.0	0.0
65.00		152.6	1,183.0					0.0	386.2	152.6	1,569.1	0.0	0.0
70.00		151.5	1,157.0					0.0	386.2	151.5	1,543.1	0.0	0.0
75.00		150.2	1,130.8					0.0	386.2	150.2	1,517.0	0.0	0.0
80.00		148.7	1,104.4					0.0	386.2	148.7	1,490.6	0.0	0.0
85.00		147.0	1,077.9					0.0	386.2	147.0	1,464.1	0.0	0.0
90.00		145.2	1,051.3					0.0	386.2	145.2	1,437.4	0.0	0.0
95.00		84.0	1,024.5					0.0	386.2	84.0	1,410.6	0.0	0.0
95.83	Bot - Section 3	72.0	168.5					0.0	64.4	72.0	232.9	0.0	0.0
100.00		74.4	1,338.3					0.0	321.8	74.4	1,660.1	0.0	0.0
101.00	Top - Section 2	71.1	317.0					0.0	77.2	71.1	394.2	0.0	0.0
105.00	Appurtenance(s)	126.7	633.3	107.4	0.0	429.8	207.2	0.0	308.9	234.1	1,149.3	0.0	0.0
110.00		83.7	771.7					0.0	356.6	83.7	1,128.3	0.0	0.0
111.00	Appurtenance(s)	68.7	152.2	442.0	0.0	0.0	2,978.7	0.0	71.3	510.7	3,202.2	0.0	0.0
115.00		122.2	598.8					0.0	285.3	122.2	884.1	0.0	0.0
120.00		120.3	728.5					0.0	356.6	120.3	1,085.1	0.0	0.0
124.00	Appurtenance(s)	66.0	567.6	1,262.2	0.0	2,098.9	8,255.1	0.0	285.3	1,328.2	9,108.0	0.0	0.0
125.00		77.7	140.1					0.0	36.9	77.7	176.9	0.0	0.0
130.00		102.6	684.9					0.0	184.3	102.6	869.2	0.0	0.0
133.00	Appurtenance(s)	63.1	401.1	250.2	0.0	0.0	1,331.2	0.0	110.6	313.4	1,843.0	0.0	0.0
135.00		86.7	263.3					0.0	55.5	86.7	318.8	0.0	0.0
140.00		73.8	641.1					0.0	138.7	73.8	779.8	0.0	0.0
141.00	Appurtenance(s)	60.1	126.0	1,072.2	0.0	-5.6	7,059.0	0.0	27.7	1,132.2	7,212.8	0.0	0.0
145.00		106.4	494.0					0.0	58.6	106.4	552.5	0.0	0.0
150.00	Appurtenance(s)	58.5	597.0	803.8	0.0	0.0	5,925.1	0.0	73.2	862.3	6,595.3	0.0	0.0
Totals:										8,178.42	71,253.5	0.00	0.00

Load Case: 1.2D + 1.0Di + 1.0Wi

49 mph with 0.85 in Radial Ice

24 Iterations

Gust Response Factor :1.10

Ice Dead Load Factor :1.00

Dead Load Factor :1.20

Ice Importance Factor :1.00

Wind Load Factor :1.00

Calculated Forces

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-71.25	-8.15	0.00	-912.01	0.00	912.01	4,644.06	1,215.47	5,637.04	4,650.09	0.00	0.00	0.212
5.00	-69.24	-8.08	0.00	-871.28	0.00	871.28	4,595.29	1,192.97	5,430.35	4,515.33	0.03	-0.06	0.208
10.00	-67.24	-8.01	0.00	-830.90	0.00	830.90	4,545.11	1,170.47	5,227.52	4,381.04	0.13	-0.12	0.204
15.00	-65.26	-7.93	0.00	-790.86	0.00	790.86	4,493.53	1,147.97	5,028.55	4,247.31	0.28	-0.18	0.201
20.00	-63.31	-7.85	0.00	-751.19	0.00	751.19	4,440.55	1,125.47	4,833.44	4,114.20	0.50	-0.24	0.197
25.00	-61.37	-7.77	0.00	-711.92	0.00	711.92	4,386.17	1,102.97	4,642.19	3,981.80	0.79	-0.30	0.193
30.00	-59.47	-7.67	0.00	-673.08	0.00	673.08	4,330.38	1,080.48	4,454.80	3,850.19	1.14	-0.36	0.189
35.00	-57.59	-7.57	0.00	-634.72	0.00	634.72	4,273.19	1,057.98	4,271.27	3,719.45	1.55	-0.43	0.184
40.00	-55.73	-7.47	0.00	-596.85	0.00	596.85	4,214.59	1,035.48	4,091.60	3,589.65	2.03	-0.49	0.180
45.00	-53.91	-7.38	0.00	-559.51	0.00	559.51	4,154.60	1,012.98	3,915.80	3,460.87	2.58	-0.55	0.175
47.83	-52.89	-7.32	0.00	-538.60	0.00	538.60	4,119.98	1,000.23	3,817.89	3,388.38	2.91	-0.59	0.172
50.00	-51.68	-7.25	0.00	-522.73	0.00	522.73	4,093.20	990.48	3,743.85	3,333.19	3.19	-0.61	0.170
54.00	-49.46	-7.18	0.00	-493.73	0.00	493.73	3,318.39	850.78	3,222.22	2,712.18	3.72	-0.66	0.197
55.00	-49.13	-7.11	0.00	-486.56	0.00	486.56	3,309.51	846.92	3,193.08	2,692.55	3.86	-0.68	0.196
60.00	-47.53	-7.00	0.00	-450.99	0.00	450.99	3,264.25	827.63	3,049.37	2,594.69	4.61	-0.74	0.188
65.00	-45.96	-6.88	0.00	-416.00	0.00	416.00	3,217.59	808.35	2,908.96	2,497.44	5.42	-0.81	0.181
70.00	-44.41	-6.75	0.00	-381.62	0.00	381.62	3,169.52	789.07	2,771.87	2,400.88	6.31	-0.88	0.173
75.00	-42.89	-6.63	0.00	-347.85	0.00	347.85	3,120.06	769.78	2,638.08	2,305.07	7.26	-0.94	0.165
80.00	-41.39	-6.50	0.00	-314.71	0.00	314.71	3,069.19	750.50	2,507.61	2,210.10	8.28	-1.01	0.156
85.00	-39.93	-6.37	0.00	-282.22	0.00	282.22	3,016.92	731.21	2,380.44	2,116.06	9.37	-1.07	0.147
90.00	-38.49	-6.23	0.00	-250.38	0.00	250.38	2,963.24	711.93	2,256.58	2,023.00	10.52	-1.13	0.137
95.00	-37.07	-6.14	0.00	-219.21	0.00	219.21	2,909.11	692.64	2,136.03	1,931.65	11.73	-1.19	0.126
95.83	-36.84	-6.08	0.00	-214.09	0.00	214.09	2,895.61	689.43	2,116.26	1,913.67	11.94	-1.19	0.125
100.00	-35.18	-5.99	0.00	-188.74	0.00	188.74	2,828.11	673.36	2,018.79	1,825.00	13.01	-1.24	0.116
101.00	-34.78	-5.93	0.00	-182.75	0.00	182.75	1,940.77	512.56	1,559.30	1,274.97	13.27	-1.25	0.161
105.00	-33.63	-5.70	0.00	-158.61	0.00	158.61	1,916.40	500.99	1,489.72	1,230.29	14.33	-1.29	0.147
110.00	-32.50	-5.61	0.00	-130.13	0.00	130.13	1,884.66	486.52	1,404.97	1,174.68	15.71	-1.35	0.128
111.00	-29.31	-5.03	0.00	-124.52	0.00	124.52	1,878.15	483.63	1,388.32	1,163.59	16.00	-1.36	0.123
115.00	-28.43	-4.91	0.00	-104.39	0.00	104.39	1,851.53	472.06	1,322.70	1,119.40	17.15	-1.40	0.109
120.00	-27.34	-4.78	0.00	-79.84	0.00	79.84	1,816.99	457.60	1,242.92	1,064.55	18.64	-1.44	0.090
124.00	-18.27	-3.23	0.00	-58.62	0.00	58.62	1,788.35	446.03	1,180.88	1,021.02	19.86	-1.47	0.068
125.00	-18.10	-3.15	0.00	-55.40	0.00	55.40	1,781.05	443.13	1,165.61	1,010.19	20.17	-1.48	0.065
130.00	-17.23	-3.03	0.00	-39.65	0.00	39.65	1,743.70	428.67	1,090.79	956.41	21.73	-1.50	0.051
133.00	-15.39	-2.67	0.00	-30.56	0.00	30.56	1,720.62	419.99	1,047.09	924.45	22.68	-1.52	0.042
135.00	-15.08	-2.58	0.00	-25.22	0.00	25.22	1,704.95	414.21	1,018.45	903.28	23.32	-1.52	0.037
140.00	-14.30	-2.49	0.00	-12.33	0.00	12.33	1,664.80	399.74	948.60	850.88	24.92	-1.54	0.023
141.00	-7.12	-1.16	0.00	-9.84	0.00	9.84	1,656.61	396.85	934.92	840.49	25.25	-1.54	0.016
145.00	-6.57	-1.04	0.00	-5.20	0.00	5.20	1,618.18	385.28	881.22	796.79	26.54	-1.54	0.011
150.00	0.00	-0.86	0.00	0.00	0.00	0.00	1,557.43	370.82	816.33	737.76	28.16	-1.55	0.000

Load Case: 1.0D + 1.0W	Serviceability 60 mph	23 Iterations
Gust Response Factor :1.10		
Dead Load Factor :1.00		
Wind Load Factor :1.00		

Applied Segment Forces Summary

Seg Elev (ft)	Description	Shaft Forces		Discrete Forces			Linear Forces		Sum of Forces				
		Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Torsion MY (lb-ft)	Moment MZ (lb)
0.00		72.7	0.0					0.0	0.0	72.7	0.0	0.0	0.0
5.00		144.1	1,167.4					0.0	321.8	144.1	1,489.2	0.0	0.0
10.00		141.4	1,145.6					0.0	321.8	141.4	1,467.4	0.0	0.0
15.00		140.9	1,123.8					0.0	321.8	140.9	1,445.6	0.0	0.0
20.00		144.1	1,102.0					0.0	321.8	144.1	1,423.8	0.0	0.0
25.00		148.1	1,080.2					0.0	321.8	148.1	1,402.0	0.0	0.0
30.00		150.8	1,058.4					0.0	321.8	150.8	1,380.2	0.0	0.0
35.00		152.6	1,036.6					0.0	321.8	152.6	1,358.4	0.0	0.0
40.00		153.7	1,014.8					0.0	321.8	153.7	1,336.6	0.0	0.0
45.00		120.7	992.9					0.0	321.8	120.7	1,314.7	0.0	0.0
47.83	Bot - Section 2	77.7	553.0					0.0	182.4	77.7	735.3	0.0	0.0
50.00		96.8	783.8					0.0	139.4	96.8	923.2	0.0	0.0
54.00	Top - Section 1	78.5	1,427.0					0.0	257.4	78.5	1,684.5	0.0	0.0
55.00		93.9	164.6					0.0	64.4	93.9	228.9	0.0	0.0
60.00		156.0	811.7					0.0	321.8	156.0	1,133.5	0.0	0.0
65.00		155.0	793.0					0.0	321.8	155.0	1,114.8	0.0	0.0
70.00		153.7	774.3					0.0	321.8	153.7	1,096.1	0.0	0.0
75.00		152.2	755.6					0.0	321.8	152.2	1,077.4	0.0	0.0
80.00		150.4	736.9					0.0	321.8	150.4	1,058.7	0.0	0.0
85.00		148.5	718.2					0.0	321.8	148.5	1,040.0	0.0	0.0
90.00		146.4	699.5					0.0	321.8	146.4	1,021.3	0.0	0.0
95.00		84.6	680.8					0.0	321.8	84.6	1,002.6	0.0	0.0
95.83	Bot - Section 3	72.5	111.7					0.0	53.6	72.5	165.3	0.0	0.0
100.00		74.9	971.8					0.0	268.2	74.9	1,239.9	0.0	0.0
101.00	Top - Section 2	71.4	229.8					0.0	64.4	71.4	294.2	0.0	0.0
105.00	Appurtenance(s)	127.2	393.0	115.2	0.0	461.0	79.2	0.0	257.4	242.4	729.7	0.0	0.0
110.00		84.0	478.7					0.0	297.2	84.0	775.9	0.0	0.0
111.00	Appurtenance(s)	68.7	94.1	466.0	0.0	0.0	2,000.0	0.0	59.4	534.7	2,153.5	0.0	0.0
115.00		122.2	370.6					0.0	237.8	122.2	608.4	0.0	0.0
120.00		120.1	450.6					0.0	297.2	120.1	747.8	0.0	0.0
124.00	Appurtenance(s)	65.8	350.4	1,398.5	0.0	2,416.7	4,819.3	0.0	237.8	1,464.3	5,407.5	0.0	0.0
125.00		77.3	86.2					0.0	30.7	77.3	116.9	0.0	0.0
130.00		102.0	422.6					0.0	153.6	102.0	576.2	0.0	0.0
133.00	Appurtenance(s)	62.6	246.8	256.1	0.0	0.0	799.0	0.0	92.2	318.8	1,138.0	0.0	0.0
135.00		85.8	161.7					0.0	46.2	85.8	208.0	0.0	0.0
140.00		73.0	394.5					0.0	115.6	73.0	510.1	0.0	0.0
141.00	Appurtenance(s)	59.3	77.2	1,192.4	0.0	-4.6	4,262.8	0.0	23.1	1,251.7	4,363.1	0.0	0.0
145.00		104.8	303.3					0.0	48.8	104.8	352.1	0.0	0.0
150.00	Appurtenance(s)	57.5	366.5	825.6	0.0	0.0	3,605.2	0.0	61.0	883.2	4,032.7	0.0	0.0
Totals:										8,545.69	48,153.6	0.00	0.00

Load Case: 1.0D + 1.0W

Serviceability 60 mph

23 Iterations

Gust Response Factor :1.10

Dead Load Factor :1.00

Wind Load Factor :1.00

Calculated Forces

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-48.15	-8.50	0.00	-927.23	0.00	927.23	4,644.06	1,215.47	5,637.04	4,650.09	0.00	0.00	0.210
5.00	-46.65	-8.40	0.00	-884.74	0.00	884.74	4,595.29	1,192.97	5,430.35	4,515.33	0.03	-0.06	0.206
10.00	-45.18	-8.31	0.00	-842.73	0.00	842.73	4,545.11	1,170.47	5,227.52	4,381.04	0.13	-0.12	0.202
15.00	-43.72	-8.21	0.00	-801.20	0.00	801.20	4,493.53	1,147.97	5,028.55	4,247.31	0.29	-0.18	0.198
20.00	-42.29	-8.11	0.00	-760.16	0.00	760.16	4,440.55	1,125.47	4,833.44	4,114.20	0.51	-0.24	0.194
25.00	-40.88	-7.99	0.00	-719.63	0.00	719.63	4,386.17	1,102.97	4,642.19	3,981.80	0.80	-0.31	0.190
30.00	-39.49	-7.88	0.00	-679.66	0.00	679.66	4,330.38	1,080.48	4,454.80	3,850.19	1.16	-0.37	0.186
35.00	-38.13	-7.76	0.00	-640.27	0.00	640.27	4,273.19	1,057.98	4,271.27	3,719.45	1.57	-0.43	0.181
40.00	-36.78	-7.63	0.00	-601.47	0.00	601.47	4,214.59	1,035.48	4,091.60	3,589.65	2.06	-0.49	0.176
45.00	-35.46	-7.53	0.00	-563.30	0.00	563.30	4,154.60	1,012.98	3,915.80	3,460.87	2.61	-0.56	0.171
47.83	-34.72	-7.47	0.00	-541.96	0.00	541.96	4,119.98	1,000.23	3,817.89	3,388.38	2.95	-0.59	0.168
50.00	-33.80	-7.38	0.00	-525.79	0.00	525.79	4,093.20	990.48	3,743.85	3,333.19	3.23	-0.62	0.166
54.00	-32.11	-7.30	0.00	-496.26	0.00	496.26	3,318.39	850.78	3,222.22	2,712.18	3.77	-0.67	0.193
55.00	-31.88	-7.23	0.00	-488.96	0.00	488.96	3,309.51	846.92	3,193.08	2,692.55	3.91	-0.68	0.191
60.00	-30.74	-7.10	0.00	-452.81	0.00	452.81	3,264.25	827.63	3,049.37	2,594.69	4.66	-0.75	0.184
65.00	-29.62	-6.96	0.00	-417.34	0.00	417.34	3,217.59	808.35	2,908.96	2,497.44	5.49	-0.82	0.176
70.00	-28.51	-6.82	0.00	-382.54	0.00	382.54	3,169.52	789.07	2,771.87	2,400.88	6.38	-0.89	0.168
75.00	-27.43	-6.68	0.00	-348.43	0.00	348.43	3,120.06	769.78	2,638.08	2,305.07	7.34	-0.95	0.160
80.00	-26.37	-6.54	0.00	-315.01	0.00	315.01	3,069.19	750.50	2,507.61	2,210.10	8.37	-1.01	0.151
85.00	-25.32	-6.40	0.00	-282.29	0.00	282.29	3,016.92	731.21	2,380.44	2,116.06	9.47	-1.08	0.142
90.00	-24.30	-6.26	0.00	-250.27	0.00	250.27	2,963.24	711.93	2,256.58	2,023.00	10.63	-1.14	0.132
95.00	-23.30	-6.17	0.00	-218.96	0.00	218.96	2,909.11	692.64	2,136.03	1,931.65	11.85	-1.19	0.121
95.83	-23.13	-6.11	0.00	-213.82	0.00	213.82	2,895.61	689.43	2,116.26	1,913.67	12.06	-1.20	0.120
100.00	-21.89	-6.02	0.00	-188.38	0.00	188.38	2,828.11	673.36	2,018.79	1,825.00	13.13	-1.25	0.111
101.00	-21.59	-5.95	0.00	-182.36	0.00	182.36	1,940.77	512.56	1,559.30	1,274.97	13.39	-1.26	0.154
105.00	-20.86	-5.71	0.00	-158.11	0.00	158.11	1,916.40	500.99	1,489.72	1,230.29	14.46	-1.30	0.140
110.00	-20.09	-5.62	0.00	-129.58	0.00	129.58	1,884.66	486.52	1,404.97	1,174.68	15.85	-1.36	0.121
111.00	-17.94	-5.04	0.00	-123.97	0.00	123.97	1,878.15	483.63	1,388.32	1,163.59	16.14	-1.37	0.116
115.00	-17.34	-4.91	0.00	-103.81	0.00	103.81	1,851.53	472.06	1,322.70	1,119.40	17.30	-1.41	0.102
120.00	-16.59	-4.79	0.00	-79.24	0.00	79.24	1,816.99	457.60	1,242.92	1,064.55	18.80	-1.45	0.084
124.00	-11.22	-3.19	0.00	-57.68	0.00	57.68	1,788.35	446.03	1,180.88	1,021.02	20.02	-1.48	0.063
125.00	-11.10	-3.11	0.00	-54.50	0.00	54.50	1,781.05	443.13	1,165.61	1,010.19	20.33	-1.48	0.060
130.00	-10.53	-3.00	0.00	-38.95	0.00	38.95	1,743.70	428.67	1,090.79	956.41	21.90	-1.51	0.047
133.00	-9.40	-2.65	0.00	-29.96	0.00	29.96	1,720.62	419.99	1,047.09	924.45	22.85	-1.52	0.038
135.00	-9.19	-2.56	0.00	-24.66	0.00	24.66	1,704.95	414.21	1,018.45	903.28	23.49	-1.53	0.033
140.00	-8.68	-2.47	0.00	-11.86	0.00	11.86	1,664.80	399.74	948.60	850.88	25.10	-1.54	0.019
141.00	-4.36	-1.11	0.00	-9.38	0.00	9.38	1,656.61	396.85	934.92	840.49	25.43	-1.54	0.014
145.00	-4.01	-0.99	0.00	-4.96	0.00	4.96	1,618.18	385.28	881.22	796.79	26.72	-1.55	0.009
150.00	0.00	-0.88	0.00	0.00	0.00	0.00	1,557.43	370.82	816.33	737.76	28.35	-1.55	0.000

Equivalent Lateral Forces Method Analysis

Spectral Response Acceleration for Short Period (S_s):	0.21
Spectral Response Acceleration at 1.0 Second Period (S_{d1}):	0.05
Long-Period Transition Period (T_L):	6
Importance Factor (I_E):	1.00
Site Coefficient F_a :	1.60
Site Coefficient F_v :	2.40
Response Modification Coefficient (R):	1.50
Design Spectral Response Acceleration at Short Period (S_{ds}):	0.22
Design Spectral Response Acceleration at 1.0 Second Period (S_{d1}):	0.09
Seismic Response Coefficient (C_s):	0.03
Upper Limit C_s	0.03
Lower Limit C_s	0.03
Period based on Rayleigh Method (sec):	2.88
Redundancy Factor (ρ):	1.00
Seismic Force Distribution Exponent (k):	2.00
Total Unfactored Dead Load:	48.15 k
Seismic Base Shear (E):	1.44 k

Load Case 1.2D + 1.0Ev + 1.0Eh

Seismic

Segment	Height Above Base (ft)	Weight (lb)	W_z (lb-ft)	C_{vx}	Horizontal Force (lb)	Vertical Force (lb)
38	147.50	428	9,301	0.020	30	532
37	143.00	352	7,200	0.016	23	438
36	140.50	100	1,981	0.004	6	125
35	137.50	510	9,645	0.021	31	635
34	134.00	208	3,735	0.008	12	259
33	131.50	339	5,862	0.013	19	422
32	127.50	576	9,367	0.021	30	717
31	124.50	117	1,812	0.004	6	145
30	122.00	588	8,754	0.019	28	732
29	117.50	748	10,325	0.023	33	930
28	113.00	608	7,768	0.017	25	757
27	110.50	153	1,874	0.004	6	191
26	107.50	776	8,966	0.020	28	965
25	103.00	650	6,901	0.015	22	809
24	100.50	294	2,972	0.007	9	366
23	97.92	1,240	11,888	0.026	38	1,543
22	95.42	165	1,505	0.003	5	206
21	92.50	1,003	8,579	0.019	27	1,247
20	87.50	1,021	7,820	0.017	25	1,271
19	82.50	1,040	7,079	0.016	22	1,294
18	77.50	1,059	6,359	0.014	20	1,317
17	72.50	1,077	5,663	0.012	18	1,340
16	67.50	1,096	4,994	0.011	16	1,364
15	62.50	1,115	4,355	0.010	14	1,387
14	57.50	1,134	3,748	0.008	12	1,410

13	54.50	229	680	0.001	2	285
12	52.00	1,684	4,555	0.010	14	2,096
11	48.92	923	2,209	0.005	7	1,149
10	46.42	735	1,584	0.003	5	915
9	42.50	1,315	2,375	0.005	8	1,636
8	37.50	1,337	1,880	0.004	6	1,663
7	32.50	1,358	1,435	0.003	5	1,690
6	27.50	1,380	1,044	0.002	3	1,717
5	22.50	1,402	710	0.002	2	1,744
4	17.50	1,424	436	0.001	1	1,771
3	12.50	1,446	226	0.000	1	1,799
2	7.50	1,467	83	0.000	0	1,826
1	2.50	1,489	9	0.000	0	1,853
DragonWave Horizon C	150.00	21	477	0.001	2	26
Alcatel-Lucent RRH2x	150.00	317	7,142	0.016	23	395
Alcatel-Lucent 1900	150.00	180	4,050	0.009	13	224
Alcatel-Lucent TD-RR	150.00	210	4,725	0.010	15	261
DragonWave A-ANT-18G	150.00	27	610	0.001	2	34
RFS APXVTM14-ALU-I20	150.00	169	3,794	0.008	12	210
Commscope NNVV-65B-R	150.00	232	5,225	0.011	17	289
Site Pro 1 RMQP-496-	150.00	2,449	55,096	0.121	175	3,047
Ericsson KRY 112 144	141.00	33	656	0.001	2	41
Ericsson RRUS 4415 B	141.00	138	2,744	0.006	9	172
Ericsson Radio 4449	141.00	225	4,473	0.010	14	280
Ericsson Air6449 B41	141.00	312	6,203	0.014	20	388
Ericsson AIR 21, 1.3	141.00	275	5,457	0.012	17	342
Ericsson AIR32 B66Aa	141.00	397	7,885	0.017	25	493
RFS APXVAARR24_43-U-	141.00	384	7,628	0.017	24	477
Sitepro 1RMQP-496-HK	141.00	2,500	49,703	0.109	158	3,110
DragonWave Horizon C	133.00	21	375	0.001	1	26
NextNet BTS-2500	133.00	105	1,857	0.004	6	131
Argus LLPX310R	133.00	86	1,518	0.003	5	107
DragonWave A-ANT-11G	133.00	27	478	0.001	2	34
Side Arms	133.00	560	9,906	0.022	31	697
Powerwave Allgon LGP	124.00	85	1,301	0.003	4	105
Raycap DC6-48-60-18-	124.00	64	978	0.002	3	79
Ericsson RRUS 4478 B	124.00	178	2,740	0.006	9	222
Raycap DC6-48-60-18-	124.00	16	246	0.001	1	20
Ericsson RRUS-11 (50	124.00	150	2,306	0.005	7	187
Ericsson RRUS 32 B66	124.00	152	2,339	0.005	7	189
Ericsson RRUS 32 B2	124.00	159	2,445	0.005	8	198
Ericsson RRUS 32 B30	124.00	180	2,768	0.006	9	224
Powerwave Allgon 777	124.00	105	1,614	0.004	5	131
CCI OPA-65R-LCUU-H6	124.00	438	6,735	0.015	21	545
Kathrein Scala 80010	124.00	293	4,502	0.010	14	364
Flat Platform w/Hand	124.00	3,000	46,128	0.101	146	3,732
Empty Flat Platform	111.00	2,000	24,642	0.054	78	2,488
RFS APXV18-206517S-C	105.00	79	873	0.002	3	99
		48,154	455,291	1.000	1,445	59,911

Load Case 0.9D - 1.0Ev + 1.0Eh

Seismic (Reduced DL)

Segment	Height Above Base (ft)	Weight (lb)	W _z (lb-ft)	C _{vx}	Horizontal Force (lb)	Vertical Force (lb)
38	147.50	428	9,301	0.020	30	366
37	143.00	352	7,200	0.016	23	301
36	140.50	100	1,981	0.004	6	86
35	137.50	510	9,645	0.021	31	437
34	134.00	208	3,735	0.008	12	178
33	131.50	339	5,862	0.013	19	290
32	127.50	576	9,367	0.021	30	493

31	124.50	117	1,812	0.004	6	100
30	122.00	588	8,754	0.019	28	503
29	117.50	748	10,325	0.023	33	640
28	113.00	608	7,768	0.017	25	521
27	110.50	153	1,874	0.004	6	131
26	107.50	776	8,966	0.020	28	664
25	103.00	650	6,901	0.015	22	557
24	100.50	294	2,972	0.007	9	252
23	97.92	1,240	11,888	0.026	38	1,061
22	95.42	165	1,505	0.003	5	141
21	92.50	1,003	8,579	0.019	27	858
20	87.50	1,021	7,820	0.017	25	874
19	82.50	1,040	7,079	0.016	22	890
18	77.50	1,059	6,359	0.014	20	906
17	72.50	1,077	5,663	0.012	18	922
16	67.50	1,096	4,994	0.011	16	938
15	62.50	1,115	4,355	0.010	14	954
14	57.50	1,134	3,748	0.008	12	970
13	54.50	229	680	0.001	2	196
12	52.00	1,684	4,555	0.010	14	1,442
11	48.92	923	2,209	0.005	7	790
10	46.42	735	1,584	0.003	5	629
9	42.50	1,315	2,375	0.005	8	1,125
8	37.50	1,337	1,880	0.004	6	1,144
7	32.50	1,358	1,435	0.003	5	1,163
6	27.50	1,380	1,044	0.002	3	1,181
5	22.50	1,402	710	0.002	2	1,200
4	17.50	1,424	436	0.001	1	1,219
3	12.50	1,446	226	0.000	1	1,237
2	7.50	1,467	83	0.000	0	1,256
1	2.50	1,489	9	0.000	0	1,275
DragonWave Horizon C	150.00	21	477	0.001	2	18
Alcatel-Lucent RRH2x	150.00	317	7,142	0.016	23	272
Alcatel-Lucent 1900	150.00	180	4,050	0.009	13	154
Alcatel-Lucent TD-RR	150.00	210	4,725	0.010	15	180
DragonWave A-ANT-18G	150.00	27	610	0.001	2	23
RFS APXVTM14-ALU-I20	150.00	169	3,794	0.008	12	144
Commscope NNVV-65B-R	150.00	232	5,225	0.011	17	199
Site Pro 1 RMQP-496-	150.00	2,449	55,096	0.121	175	2,096
Ericsson KRY 112 144	141.00	33	656	0.001	2	28
Ericsson RRUS 4415 B	141.00	138	2,744	0.006	9	118
Ericsson Radio 4449	141.00	225	4,473	0.010	14	193
Ericsson Air6449 B41	141.00	312	6,203	0.014	20	267
Ericsson AIR 21, 1.3	141.00	275	5,457	0.012	17	235
Ericsson AIR32 B66Aa	141.00	397	7,885	0.017	25	339
RFS APXVAARR24_43-U-	141.00	384	7,628	0.017	24	328
Sitepro 1RMQP-496-HK	141.00	2,500	49,703	0.109	158	2,140
DragonWave Horizon C	133.00	21	375	0.001	1	18
NextNet BTS-2500	133.00	105	1,857	0.004	6	90
Argus LLPX310R	133.00	86	1,518	0.003	5	73
DragonWave A-ANT-11G	133.00	27	478	0.001	2	23
Side Arms	133.00	560	9,906	0.022	31	479
Powerwave Allgon LGP	124.00	85	1,301	0.003	4	72
Raycap DC6-48-60-18-	124.00	64	978	0.002	3	54
Ericsson RRUS 4478 B	124.00	178	2,740	0.006	9	153
Raycap DC6-48-60-18-	124.00	16	246	0.001	1	14
Ericsson RRUS-11 (50	124.00	150	2,306	0.005	7	128
Ericsson RRUS 32 B66	124.00	152	2,339	0.005	7	130
Ericsson RRUS 32 B2	124.00	159	2,445	0.005	8	136
Ericsson RRUS 32 B30	124.00	180	2,768	0.006	9	154
Powerwave Allgon 777	124.00	105	1,614	0.004	5	90
CCI OPA-65R-LCUU-H6	124.00	438	6,735	0.015	21	375
Kathrein Scala 80010	124.00	293	4,502	0.010	14	251
Flat Platform w/Hand	124.00	3,000	46,128	0.101	146	2,568

Site Number: 302538

Code: ANSI/TIA-222-H

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Site Name: Parsonage Hill Aka Wallin, CT

Engineering Number: 13251802_C3_04

7/10/2020 9:56:01 AM

Customer: T-MOBILE

Empty Flat Platform	111.00	2,000	24,642	0.054	78	1,712
RFS APXV18-206517S-C	105.00	79	873	0.002	3	68
		48,154	455,291	1.000	1,445	41,212

Load Case 1.2D + 1.0Ev + 1.0Eh

Seismic

Calculated Forces

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-58.06	-1.45	0.00	-188.82	0.00	188.82	4,644.06	1,215.47	5,637.04	4,650.09	0.00	0.00	0.053
5.00	-56.23	-1.46	0.00	-181.57	0.00	181.57	4,595.29	1,192.97	5,430.35	4,515.33	0.01	-0.01	0.052
10.00	-54.43	-1.47	0.00	-174.26	0.00	174.26	4,545.11	1,170.47	5,227.52	4,381.04	0.03	-0.02	0.052
15.00	-52.66	-1.48	0.00	-166.90	0.00	166.90	4,493.53	1,147.97	5,028.55	4,247.31	0.06	-0.04	0.051
20.00	-50.92	-1.49	0.00	-159.49	0.00	159.49	4,440.55	1,125.47	4,833.44	4,114.20	0.11	-0.05	0.050
25.00	-49.20	-1.50	0.00	-152.04	0.00	152.04	4,386.17	1,102.97	4,642.19	3,981.80	0.17	-0.06	0.049
30.00	-47.51	-1.50	0.00	-144.56	0.00	144.56	4,330.38	1,080.48	4,454.80	3,850.19	0.24	-0.08	0.049
35.00	-45.85	-1.50	0.00	-137.06	0.00	137.06	4,273.19	1,057.98	4,271.27	3,719.45	0.33	-0.09	0.048
40.00	-44.21	-1.50	0.00	-129.54	0.00	129.54	4,214.59	1,035.48	4,091.60	3,589.65	0.43	-0.10	0.047
45.00	-43.29	-1.50	0.00	-122.03	0.00	122.03	4,154.60	1,012.98	3,915.80	3,460.87	0.54	-0.12	0.046
47.83	-42.15	-1.50	0.00	-117.76	0.00	117.76	4,119.98	1,000.23	3,817.89	3,388.38	0.62	-0.12	0.045
50.00	-40.05	-1.49	0.00	-114.51	0.00	114.51	4,093.20	990.48	3,743.85	3,333.19	0.67	-0.13	0.044
54.00	-39.76	-1.49	0.00	-108.57	0.00	108.57	3,318.39	850.78	3,222.22	2,712.18	0.79	-0.14	0.052
55.00	-38.35	-1.48	0.00	-107.08	0.00	107.08	3,309.51	846.92	3,193.08	2,692.55	0.82	-0.14	0.051
60.00	-36.97	-1.47	0.00	-99.68	0.00	99.68	3,264.25	827.63	3,049.37	2,594.69	0.98	-0.16	0.050
65.00	-35.60	-1.46	0.00	-92.32	0.00	92.32	3,217.59	808.35	2,908.96	2,497.44	1.15	-0.17	0.048
70.00	-34.26	-1.45	0.00	-85.02	0.00	85.02	3,169.52	789.07	2,771.87	2,400.88	1.34	-0.19	0.046
75.00	-32.94	-1.43	0.00	-77.78	0.00	77.78	3,120.06	769.78	2,638.08	2,305.07	1.55	-0.20	0.044
80.00	-31.65	-1.41	0.00	-70.63	0.00	70.63	3,069.19	750.50	2,507.61	2,210.10	1.77	-0.22	0.042
85.00	-30.38	-1.39	0.00	-63.57	0.00	63.57	3,016.92	731.21	2,380.44	2,116.06	2.01	-0.23	0.040
90.00	-29.13	-1.36	0.00	-56.63	0.00	56.63	2,963.24	711.93	2,256.58	2,023.00	2.26	-0.25	0.038
95.00	-28.93	-1.36	0.00	-49.81	0.00	49.81	2,909.11	692.64	2,136.03	1,931.65	2.52	-0.26	0.036
95.83	-27.38	-1.32	0.00	-48.67	0.00	48.67	2,895.61	689.43	2,116.26	1,913.67	2.57	-0.26	0.035
100.00	-27.02	-1.31	0.00	-43.18	0.00	43.18	2,828.11	673.36	2,018.79	1,825.00	2.80	-0.27	0.033
101.00	-26.21	-1.29	0.00	-41.86	0.00	41.86	1,940.77	512.56	1,559.30	1,274.97	2.86	-0.27	0.046
105.00	-25.14	-1.26	0.00	-36.71	0.00	36.71	1,916.40	500.99	1,489.72	1,230.29	3.09	-0.28	0.043
110.00	-24.95	-1.25	0.00	-30.42	0.00	30.42	1,884.66	486.52	1,404.97	1,174.68	3.39	-0.30	0.039
111.00	-21.71	-1.14	0.00	-29.17	0.00	29.17	1,878.15	483.63	1,388.32	1,163.59	3.45	-0.30	0.037
115.00	-20.78	-1.10	0.00	-24.62	0.00	24.62	1,851.53	472.06	1,322.70	1,119.40	3.71	-0.31	0.033
120.00	-20.05	-1.07	0.00	-19.11	0.00	19.11	1,816.99	457.60	1,242.92	1,064.55	4.04	-0.32	0.029
124.00	-13.91	-0.80	0.00	-14.82	0.00	14.82	1,788.35	446.03	1,180.88	1,021.02	4.31	-0.33	0.022
125.00	-13.19	-0.77	0.00	-14.02	0.00	14.02	1,781.05	443.13	1,165.61	1,010.19	4.37	-0.33	0.021
130.00	-12.77	-0.75	0.00	-10.19	0.00	10.19	1,743.70	428.67	1,090.79	956.41	4.72	-0.33	0.018
133.00	-11.51	-0.68	0.00	-7.95	0.00	7.95	1,720.62	419.99	1,047.09	924.45	4.93	-0.34	0.015
135.00	-10.88	-0.65	0.00	-6.58	0.00	6.58	1,704.95	414.21	1,018.45	903.28	5.07	-0.34	0.014
140.00	-10.76	-0.64	0.00	-3.33	0.00	3.33	1,664.80	399.74	948.60	850.88	5.43	-0.34	0.010
141.00	-5.02	-0.32	0.00	-2.69	0.00	2.69	1,656.61	396.85	934.92	840.49	5.50	-0.34	0.006
145.00	-4.48	-0.28	0.00	-1.42	0.00	1.42	1,618.18	385.28	881.22	796.79	5.79	-0.34	0.005
150.00	0.00	-0.26	0.00	0.00	0.00	0.00	1,557.43	370.82	816.33	737.76	6.15	-0.34	0.000

Load Case 0.9D - 1.0Ev + 1.0Eh

Seismic (Reduced DL)

Calculated Forces

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-39.94	-1.45	0.00	-184.59	0.00	184.59	4,644.06	1,215.47	5,637.04	4,650.09	0.00	0.00	0.048
5.00	-38.68	-1.46	0.00	-177.35	0.00	177.35	4,595.29	1,192.97	5,430.35	4,515.33	0.01	-0.01	0.048
10.00	-37.44	-1.46	0.00	-170.07	0.00	170.07	4,545.11	1,170.47	5,227.52	4,381.04	0.03	-0.02	0.047
15.00	-36.22	-1.47	0.00	-162.75	0.00	162.75	4,493.53	1,147.97	5,028.55	4,247.31	0.06	-0.04	0.046
20.00	-35.02	-1.47	0.00	-155.41	0.00	155.41	4,440.55	1,125.47	4,833.44	4,114.20	0.10	-0.05	0.046
25.00	-33.84	-1.48	0.00	-148.04	0.00	148.04	4,386.17	1,102.97	4,642.19	3,981.80	0.16	-0.06	0.045
30.00	-32.68	-1.48	0.00	-140.66	0.00	140.66	4,330.38	1,080.48	4,454.80	3,850.19	0.23	-0.07	0.044
35.00	-31.54	-1.48	0.00	-133.27	0.00	133.27	4,273.19	1,057.98	4,271.27	3,719.45	0.32	-0.09	0.043
40.00	-30.41	-1.48	0.00	-125.88	0.00	125.88	4,214.59	1,035.48	4,091.60	3,589.65	0.42	-0.10	0.042
45.00	-29.78	-1.47	0.00	-118.51	0.00	118.51	4,154.60	1,012.98	3,915.80	3,460.87	0.53	-0.11	0.041
47.83	-28.99	-1.47	0.00	-114.33	0.00	114.33	4,119.98	1,000.23	3,817.89	3,388.38	0.60	-0.12	0.041
50.00	-27.55	-1.46	0.00	-111.15	0.00	111.15	4,093.20	990.48	3,743.85	3,333.19	0.66	-0.13	0.040
54.00	-27.35	-1.46	0.00	-105.33	0.00	105.33	3,318.39	850.78	3,222.22	2,712.18	0.77	-0.14	0.047
55.00	-26.38	-1.45	0.00	-103.87	0.00	103.87	3,309.51	846.92	3,193.08	2,692.55	0.80	-0.14	0.047
60.00	-25.43	-1.44	0.00	-96.64	0.00	96.64	3,264.25	827.63	3,049.37	2,594.69	0.95	-0.16	0.045
65.00	-24.49	-1.42	0.00	-89.46	0.00	89.46	3,217.59	808.35	2,908.96	2,497.44	1.12	-0.17	0.043
70.00	-23.57	-1.41	0.00	-82.34	0.00	82.34	3,169.52	789.07	2,771.87	2,400.88	1.31	-0.18	0.042
75.00	-22.66	-1.39	0.00	-75.30	0.00	75.30	3,120.06	769.78	2,638.08	2,305.07	1.51	-0.20	0.040
80.00	-21.77	-1.37	0.00	-68.35	0.00	68.35	3,069.19	750.50	2,507.61	2,210.10	1.72	-0.21	0.038
85.00	-20.90	-1.35	0.00	-61.50	0.00	61.50	3,016.92	731.21	2,380.44	2,116.06	1.95	-0.23	0.036
90.00	-20.04	-1.32	0.00	-54.76	0.00	54.76	2,963.24	711.93	2,256.58	2,023.00	2.20	-0.24	0.034
95.00	-19.90	-1.32	0.00	-48.16	0.00	48.16	2,909.11	692.64	2,136.03	1,931.65	2.45	-0.25	0.032
95.83	-18.83	-1.28	0.00	-47.06	0.00	47.06	2,895.61	689.43	2,116.26	1,913.67	2.50	-0.25	0.031
100.00	-18.58	-1.27	0.00	-41.73	0.00	41.73	2,828.11	673.36	2,018.79	1,825.00	2.72	-0.26	0.029
101.00	-18.03	-1.25	0.00	-40.46	0.00	40.46	1,940.77	512.56	1,559.30	1,274.97	2.78	-0.27	0.041
105.00	-17.29	-1.22	0.00	-35.48	0.00	35.48	1,916.40	500.99	1,489.72	1,230.29	3.00	-0.27	0.038
110.00	-17.16	-1.21	0.00	-29.40	0.00	29.40	1,884.66	486.52	1,404.97	1,174.68	3.30	-0.29	0.034
111.00	-14.93	-1.10	0.00	-28.19	0.00	28.19	1,878.15	483.63	1,388.32	1,163.59	3.36	-0.29	0.032
115.00	-14.29	-1.06	0.00	-23.80	0.00	23.80	1,851.53	472.06	1,322.70	1,119.40	3.61	-0.30	0.029
120.00	-13.79	-1.04	0.00	-18.48	0.00	18.48	1,816.99	457.60	1,242.92	1,064.55	3.92	-0.31	0.025
124.00	-9.56	-0.77	0.00	-14.33	0.00	14.33	1,788.35	446.03	1,180.88	1,021.02	4.19	-0.32	0.019
125.00	-9.07	-0.74	0.00	-13.56	0.00	13.56	1,781.05	443.13	1,165.61	1,010.19	4.25	-0.32	0.019
130.00	-8.78	-0.72	0.00	-9.85	0.00	9.85	1,743.70	428.67	1,090.79	956.41	4.59	-0.32	0.015
133.00	-7.92	-0.66	0.00	-7.69	0.00	7.69	1,720.62	419.99	1,047.09	924.45	4.79	-0.33	0.013
135.00	-7.48	-0.63	0.00	-6.37	0.00	6.37	1,704.95	414.21	1,018.45	903.28	4.93	-0.33	0.011
140.00	-7.40	-0.62	0.00	-3.23	0.00	3.23	1,664.80	399.74	948.60	850.88	5.28	-0.33	0.008
141.00	-3.45	-0.31	0.00	-2.60	0.00	2.60	1,656.61	396.85	934.92	840.49	5.34	-0.33	0.005
145.00	-3.08	-0.28	0.00	-1.38	0.00	1.38	1,618.18	385.28	881.22	796.79	5.62	-0.33	0.004
150.00	0.00	-0.26	0.00	0.00	0.00	0.00	1,557.43	370.82	816.33	737.76	5.97	-0.33	0.000

Site Number: 302538

Code: ANSI/TIA-222-H

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Site Name: Parsonage Hill Aka Wallin, CT

Engineering Number: 13251802_C3_04

7/10/2020 9:56:01 AM

Customer: T-MOBILE

Analysis Summary

Load Case	Reactions						Max Usage	
	Shear FX (kips)	Shear FZ (kips)	Axial FY (kips)	Moment MX (ft-kips)	Moment MY (ft-kips)	Moment MZ (ft-kips)	Elev (ft)	Interaction Ratio
1.2D + 1.0W	35.53	0.00	57.70	0.00	0.00	3911.26	0.00	0.85
0.9D + 1.0W	35.49	0.00	43.26	0.00	0.00	3844.22	0.00	0.84
1.2D + 1.0Di + 1.0Wi	8.15	0.00	71.25	0.00	0.00	912.01	0.00	0.21
1.2D + 1.0Ev + 1.0Eh	1.45	0.00	58.06	0.00	0.00	188.82	0.00	0.05
0.9D - 1.0Ev + 1.0Eh	1.45	0.00	39.94	0.00	0.00	184.59	0.00	0.05
1.0D + 1.0W	8.50	0.00	48.15	0.00	0.00	927.23	0.00	0.21



Pier Foundation Analysis

Analysis Parameters	
TIA Standard	TIA-222-H
Analysis Type	Rigid
Tower Type	Monopole
Pier Type	Drilled Pier

Base Reactions		
Moment	3911.3	k-ft
Shear	35.5	k
Axial	57.7	k
Uplift	-	k

Analysis Options
<input type="checkbox"/> Pier Foundation Mapped
<input type="checkbox"/> Check Servicability Limit State
<input type="checkbox"/> Check Anchor Rod Development
<input type="checkbox"/> Additional Rebar Circles
<input type="checkbox"/> Collar Modification
<input type="checkbox"/> Use ACI 318-05 Load Factors [9.2.1(b)]

Pier Geometry		
Diameter	6.5	ft
Embedment	21.0	ft
Height Above Grade	1.0	ft
Concrete Strength	3000	psi

Original Vertical Rebar (Group 1)		
Quantity	38	-
Rebar Size	#11	-
Grade	A615-60	-
Orientation Offset		°
Top Cover	3.0	in
Bottom Cover	3.5	in

Horizontal Ties		
# of Tie Spacings / Sizes	2	-
Cover	3.0	in

Horizontal Tie #1		
Size	#4	-
Grade	A615-60	-
Spacing	3.0	in
End Depth	1.0	ft

Horizontal Tie #2		
Size	#4	-
Grade	A615-60	-
Spacing	28.0	in
End Depth	22.0	ft

Soil Data		
Water Table	99.0	ft
Ratio T/C Skin Friction	0.98	-
Pullout Angle	30	deg

Soil Properties Table					
Depth at Bottom (ft)	Density (pcf)	Cohesion (psf)	Friction Angle (deg)	Ultimate Skin Friction (psf)	Ultimate Net Bearing Pressure (psf)
2	105	0	0	0	0
6	124	0	35	0	0
7.5	140	11,419	0	5,139	0
22	140	14,805	0	6,662	47,376

Results

Soil		
Component	Usage	Pass/Fail
Overturning Moment	14%	Pass
Axial	3%	Pass
Uplift	-	-

Structure		
Component	Usage	Pass/Fail
Flexure & Axial	51%	Pass
Shear	97%	Pass



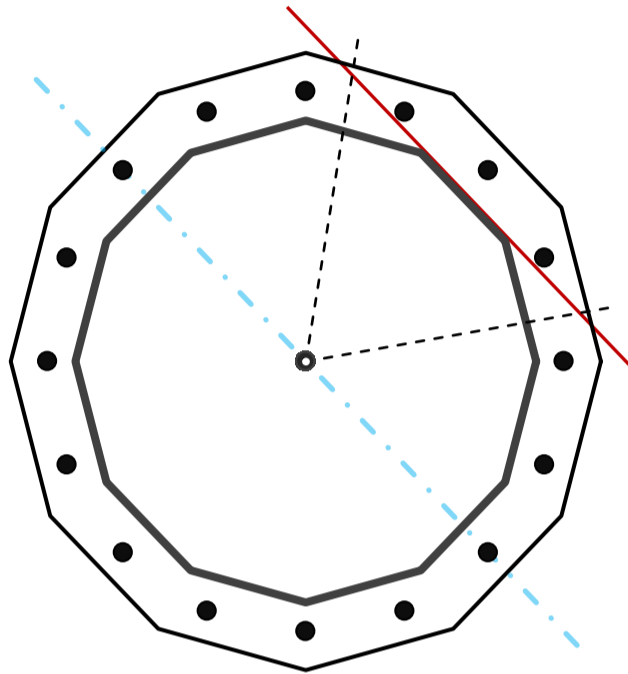
Base Plate & Anchor Rod Analysis

Pole Dimensions		
Number of Sides	12	-
Diameter	49.6	in
Thickness	7/16	in
Orientation Offset		°

Base Reactions		
Moment, Mu	3911.3	k-ft
Axial, Pu	57.7	k
Shear, Vu	35.5	k
Neutral Axis	0	°

Report Capacities		
Component	Capacity	Result
Base Plate	24%	Pass
Anchor Rods	87%	Pass
Dwyidag	-	-

Base Plate		
Number of Sides	12	-
Diameter, ϕ	63.85	in
Thickness	2 3/4	in
Grade	A633 Gr. E	
Yield Strength, Fy	60	ksi
Tensile Strength, Fu	80	ksi
Clip	N/A	in
Orientation Offset		°
Anchor Rod Detail	c	$\eta=0.55$
Clear Distance	N/A	in
Applied Moment, Mu	923.6	k
Bending Stress, ϕMn	3812.3	k



Original Anchor Rods		
Arrangement	Radial	-
Quantity	16	-
Diameter, ϕ	2 1/4	in
Bolt Circle	57.85	in
Grade	A615-75	
Yield Strength, Fy	75	ksi
Tensile Strength, Fu	100	ksi
Spacing	11.4	in
Orientation Offset		°
Applied Force, Pu	224.7	k
Anchor Rods, ϕPn	259.8	k

Calculations for Monopole Base Plate & Anchor Rod Analysis

Reaction Distribution

Reaction	Shear Vu	Moment Mu	Factor
-	k	k-ft	-
Base Forces	37.3	4092.6	1.00
Anchor Rod Forces	37.3	4092.6	1.00
Additional Bolt (Grp1) Forces	0.0	0.0	0.00
Additional Bolt (Grp2) Forces	0.0	0.0	0.00
Dywidag Forces	0.0	0.0	0.00
Stiffener Forces	0.0	0.0	0.00

Geometric Properties

Section	Gross Area	Net Area	Individual Inertia	Threads per Inch	Moment of Inertia
-	in ²	in ²	in ⁴	#	in ⁴
Pole	66.8020	5.5668	0.3568		20186.43
Bolt	3.9761	3.2477	0.8393	4.5	20002.80
Bolt1	0.0000	0.0000	0.0000	0	0.00
Bolt2	0.0000	0.0000	0.0000	0	0.00
Dywidag	0.0000	0.0000	0.0000		0.00
Stiffener	0.0000	0.0000	0.0000		0.00

Base Plate		
Shape	12	-
Width, W	63.85	in
Thickness, t	2.75	in
Yield Strength, Fy	60	ksi
Tensile Strength, Fu	80	ksi
Base Plate Chord	40.208	in
Detail Type	c	-
Detail Factor	0.55	-
Clear Distance	N/A	-

Anchor Rods		
Anchor Rod Quantity, N	16	-
Rod Diameter, d	2.25	in
Bolt Circle, BC	57.85	in
Yield Strength, Fy	75	ksi
Tensile Strength, Fu	100	ksi
Applied Axial, Pu	224.7	k
Applied Shear, Vu	1.4	k
Compressive Capacity, ϕP_n	259.8	k
Tensile Capacity, ϕR_n	0.865	OK
Interaction Capacity	0.875	OK

External Base Plate		
Chord Length AA	40.448	in
Additional AA	5.500	in
Section Modulus, Z	86.870	in ³
Applied Moment, Mu	923.6	k-ft
Bending Capacity, ϕM_n	4691.0	k-ft
Capacity, Mu/ ϕM_n	0.197	OK

Chord Length AB	38.689	in
Additional AB	5.500	in
Section Modulus, Z	83.545	in ³
Applied Moment, Mu	434.5	k-ft
Bending Capacity, ϕM_n	4511.4	k-ft
Capacity, Mu/ ϕM_n	0.096	OK

Bend Line Length	37.341	in
Additional Bend Line	0.000	in
Section Modulus, Z	70.597	in ³
Applied Moment, Mu	923.6	k-ft
Bending Capacity, ϕM_n	3812.3	k-ft
Capacity, Mu/ ϕM_n	0.242	OK

Internal Base Plate		
Arc Length	0.000	in
Section Modulus, Z	0.000	in ³
Moment Arm	0.000	in
Applied Moment, Mu	0.0	k-ft
Bending Capacity, ϕM_n	0.0	k-ft
Capacity, Mu/ ϕM_n		



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Exhibit E

Mount Analysis

June 19, 2020

Geoff Middlebrooks
American Tower Corporation
3500 Regency Pkwy, Suite 100
Cary, NC 27518
(919) 466-5149



Tower Engineering Professionals
326 Tryon Road
Raleigh, NC 27603
(919) 661-6351
Structures@tepgroup.net

Subject: Appurtenance Mount Analysis Report

Carrier Designation: *T-Mobile Reconfiguration*
Site Number: CT11054A
Site Name: Wallingford/ I-91/ X15/ G

ATC Designation: **ATC Site Number:** 302538
ATC Site Name: Parsonage Hill Aka Wallin

Engineering Firm Designation: **TEP Project Number:** 83631.424428

Site Data: 922 Northrop Rd. Wallingford, New Haven County, CT 06492-1910
Latitude 41° 29' 21.65", Longitude -72° 46' 05.71"
151 ± Foot - Monopole Tower

Table 1 - Mount Analysis Specification

Ultimate Wind Speed (MPH)	Radial Ice (in.)	Ice Wind Speed (MPH)	Exposure Category	Risk Category	Topo Procedure	K _{zt}
125	1 1/2	50	C	II	Method 2	1.0

Based on our analysis we have determined the stress level for the mount structure to be:

LC1: Existing + Proposed + Reserved Loading
Note: See Table 2 for the existing, proposed, and reserved loading

Sufficient Capacity – 62.7%

The analysis has been performed in accordance with the ANSI/TIA-222-H-2017 Structural Standard for Antenna Supporting Structures, Antennas and Small Wind Turbine Support Structures and the 2018 Connecticut State Building Code.

Structural analysis prepared by: Michael Dugan, E.I.

Respectfully submitted by:

Aaron T. Rucker, P.E.



06/19/2020

Table 2 - Existing, Proposed, and Reserved Antenna Loading Configuration

Existing/ Proposed/ Reserved	Mount Level (ft)	Ant CL (ft)	Qty	Antenna Model	Mount Type	Owner/ Tenant
Final Loading Config.	141.0	141.0	3	Ericsson AIR 21, 1.3M, B2A B4P	Platform w/Handrail	T-Mobile
			3	Ericsson AIR32 B66Aa/B2a		
			3	Ericsson Air6449 B41		
			3	RFS APXVAARR24_43-U-NA20		
			3	Ericsson KRY 112 144/1		
			3	Ericsson RRUS 4415 B25		
			3	Ericsson Radio 4449 B71 B85A		

Table 3 - Mount Component Stresses vs. Capacity

Notes	Component	% Capacity	Pass / Fail
-	Face Horizontal	31.2	Pass
-	Handrail	58.0	Pass
-	Internal	22.0	Pass
-	Mount Pipe	62.7	Pass
-	Kicker	10.3	Pass
-	Connection Bolts	13.1	Pass
-	Connection Plate	14.1	Pass

Structure Rating (max from all components) =	62.7%
---	--------------

Table 4 - Documents Provided

Document	Remarks	Source
Mount Manufacturer Drawings	SitePro 1, dated July 14, 2014 Dwg No. RMQP-496-HK	TEP

RECOMMENDATIONS

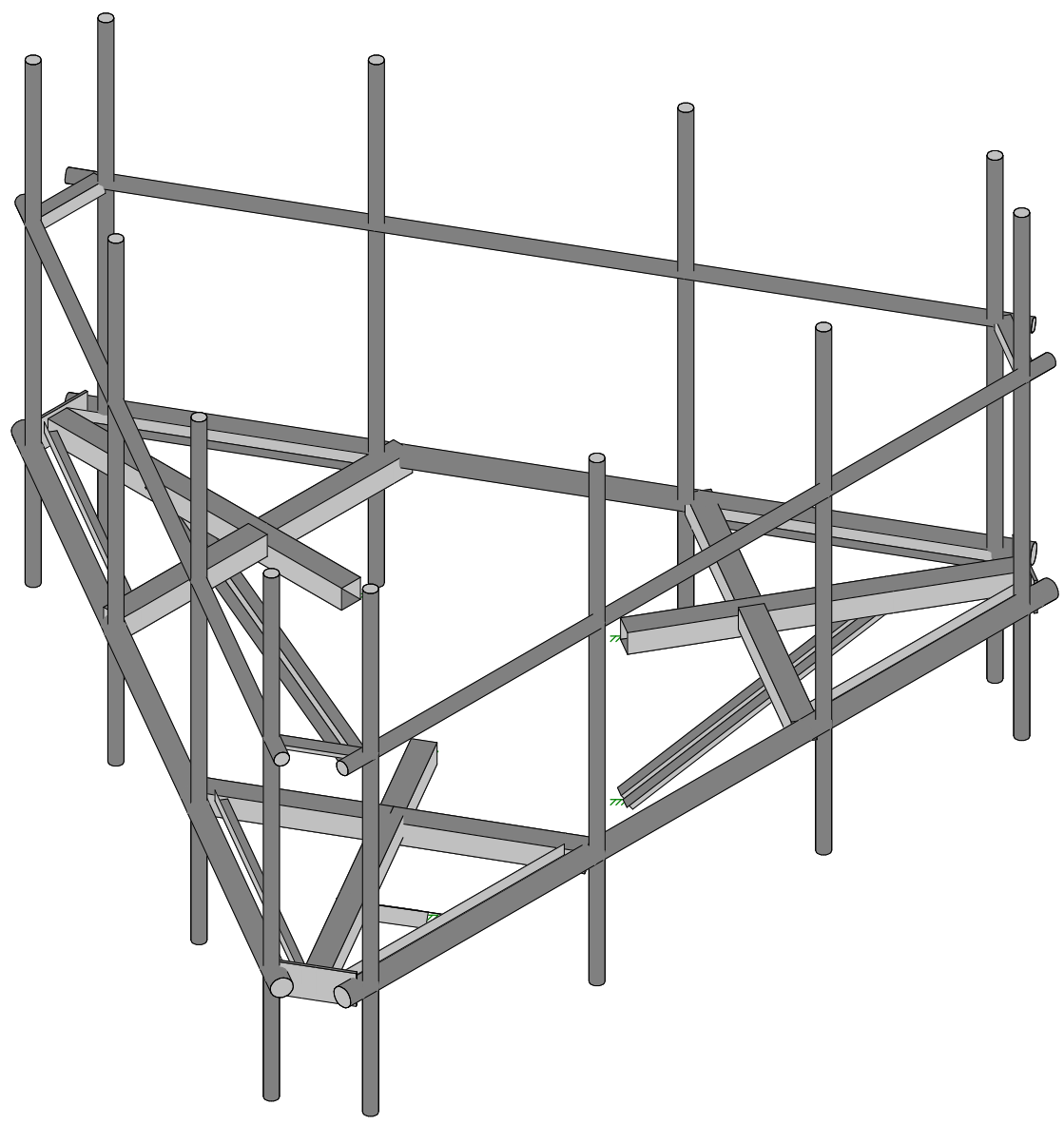
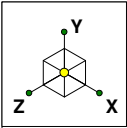
- 1) If the load differs from that described in Table 2 of this report or the provisions of this analysis are found to be invalid, another structural analysis should be performed.
- 2) The mount has sufficient capacity to carry the existing, proposed, and reserved loading. No modifications are required at this time.

ANALYSIS ASSUMPTIONS

- 1) The mount was built in accordance with the manufacturer's specifications.
- 2) The mount has been maintained in accordance with the manufacturer's specification.
- 3) The configuration of antennas, transmission cables, mounts and other appurtenances are as specified in Table 2. All mount components have been assumed to be in sufficient condition to carry their full design capacity for this analysis. Refer to the issued mapping for any structural and/or maintenance issues found during our site visit.
- 4) Serviceability with respect to antenna twist, tilt, roll, or lateral translation, is not checked and is left to the carrier or tower owner to ensure conformance.
- 5) TEP did not analyze the collar mount connection to the pole and assumes it to have sufficient structural capacity to transfer the applied forces from the mount to the tower.
- 6) All material grades used for this analysis, unless verified by mount manufacturer design, were assumed per AISC Table 2-4, 15th Edition. See RISA 3-D output for confirmation on grades used in this analysis.

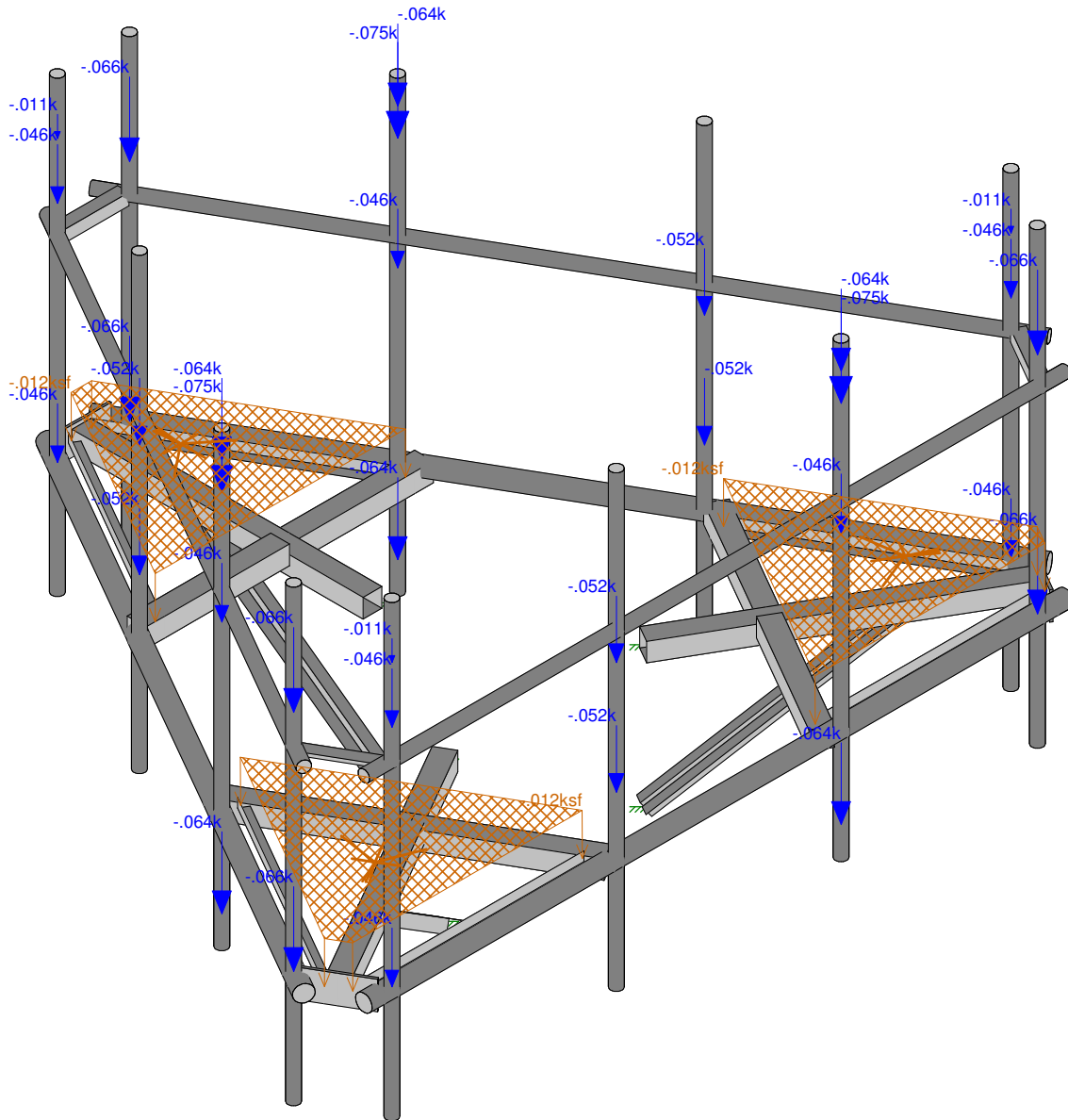
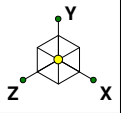
This analysis may be affected if any assumptions are not valid or have been made in error. Tower Engineering Professionals should be notified to determine the effect on the structural integrity of the mount.

APPENDIX A
RISA-3D OUTPUT



Envelope Only Solution

Tower Engineering Profes...	302538 - Parsonage Hill Aka Wallin	SK - 1
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TEP No. 83631.424428		RMQP-496-HK.r3d

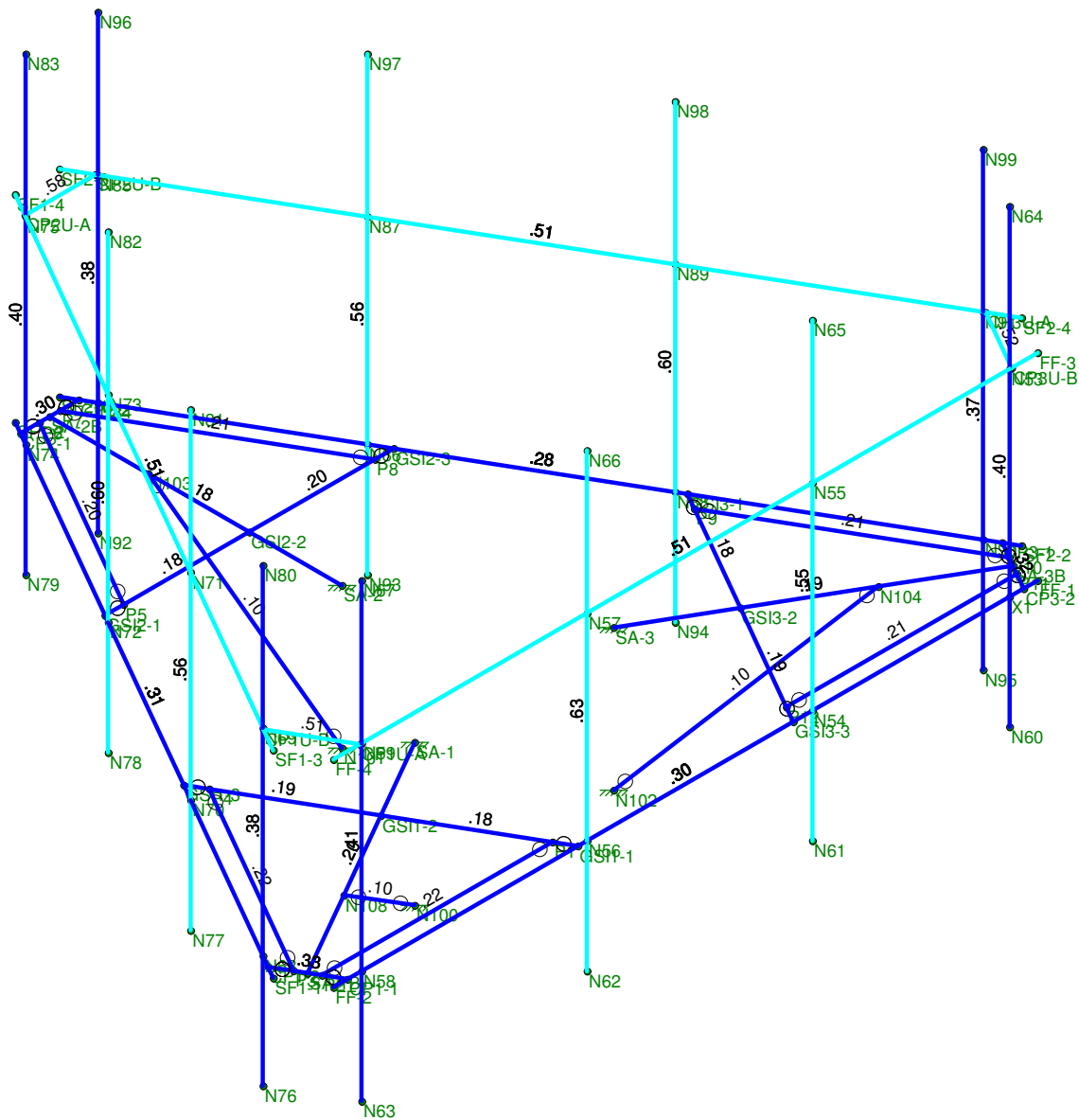
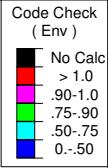
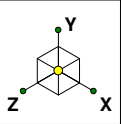


Loads: BLC 1, Dead
Envelope Only Solution

Tower Engineering Profes...
MSD
TEP No. 83631.424428

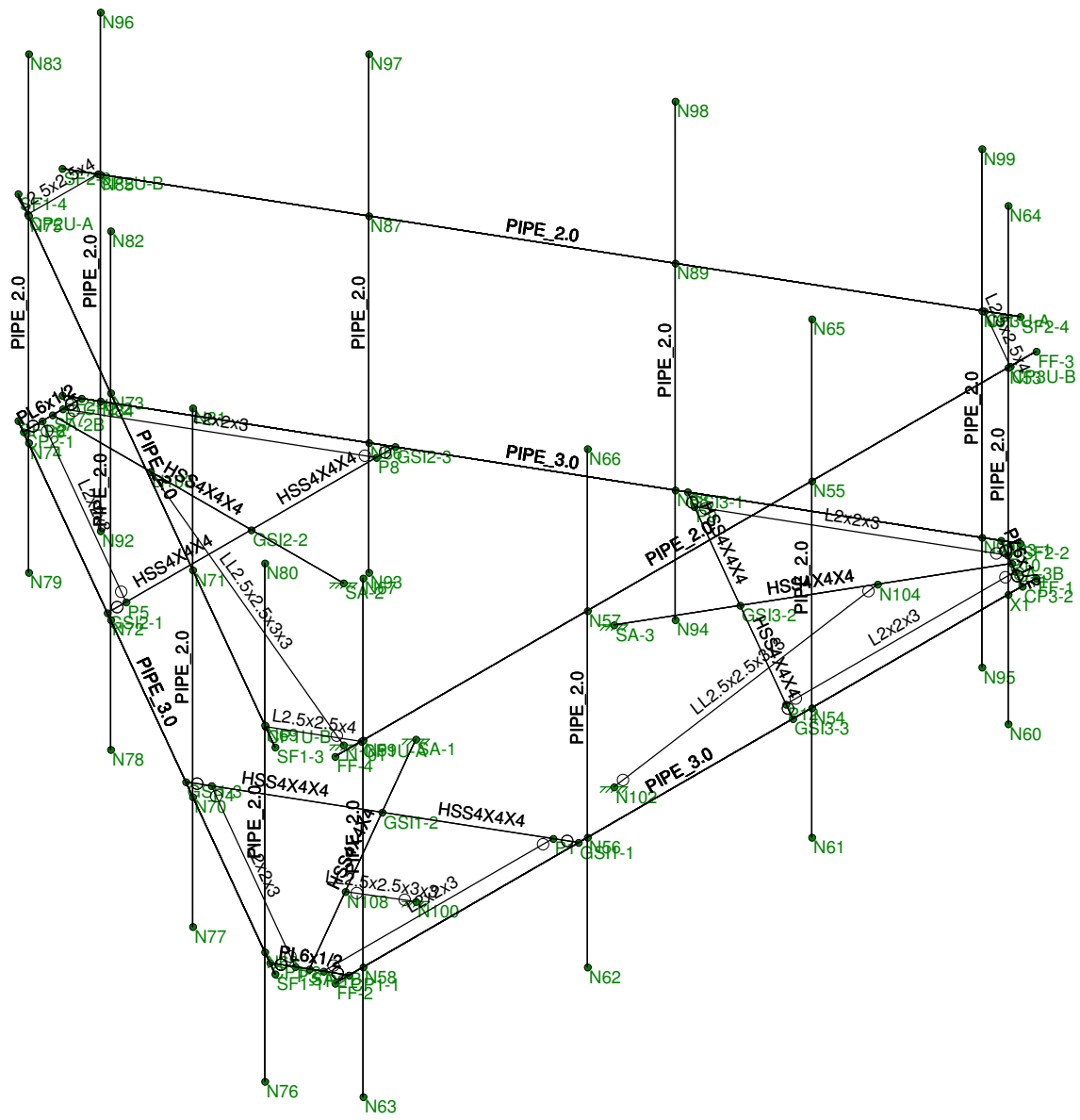
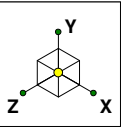
302538 - Parsonage Hill Aka Wallin

SK - 2
June 19, 2020 at 3:56 PM
RMQP-496-HK.r3d



Member Code Checks Displayed (Enveloped)
Envelope Only Solution

Tower Engineering Profes...	302538 - Parsonage Hill Aka Wallin	SK - 3
MSD		June 19, 2020 at 3:58 PM
TEP No. 83631.424428		RMQP-496-HK.r3d



Envelope Only Solution

Tower Engineering Profes...	302538 - Parsonage Hill Aka Wallin	SK - 5
MSD		June 19, 2020 at 3:59 PM
TEP No. 83631.424428		RMQP-496-HK.r3d



Company : Tower Engineering Professionals, Inc.
 Designer : MSD
 Job Number : TEP No. 83631.424428
 Model Name : 302538 - Parsonage Hill Aka Wallin

June 19, 2020
 3:59 PM
 Checked By: HBC

(Global) Model Settings

Display Sections for Member Calcs	5
Max Internal Sections for Member Calcs	97
Include Shear Deformation?	Yes
Increase Nailing Capacity for Wind?	Yes
Include Warping?	Yes
Trans Load Btwn Intersecting Wood Wall?	Yes
Area Load Mesh (in^2)	144
Merge Tolerance (in)	.12
P-Delta Analysis Tolerance	0.50%
Include P-Delta for Walls?	Yes
Automatically Iterate Stiffness for Walls?	Yes
Max Iterations for Wall Stiffness	3
Gravity Acceleration (ft/sec^2)	32.2
Wall Mesh Size (in)	24
Eigensolution Convergence Tol. (1.E-)	4
Vertical Axis	Y
Global Member Orientation Plane	XZ
Static Solver	Sparse Accelerated
Dynamic Solver	Accelerated Solver

Hot Rolled Steel Code	AISC 15th(360-16): LRFD
Adjust Stiffness?	No
RISACONNECTION CODE	None
Cold Formed Steel Code	None
Wood Code	None
Wood Temperature	< 100F
Concrete Code	None
Masonry Code	None
Aluminum Code	None - Building
Stainless Steel Code	None

Number of Shear Regions	4
Region Spacing Increment (in)	4
Biaxial Column Method	Exact Integration
Parme Beta Factor (PCA)	.65
Concrete Stress Block	Rectangular
Use Cracked Sections?	Yes
Use Cracked Sections Slab?	No
Bad Framing Warnings?	No
Unused Force Warnings?	Yes
Min 1 Bar Diam. Spacing?	No
Concrete Rebar Set	REBAR_SET_ASTMA615
Min % Steel for Column	1
Max % Steel for Column	8



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(Global) Model Settings, Continued

Seismic Code	ASCE 7-10
Seismic Base Elevation (ft)	Not Entered
Add Base Weight?	Yes
Ct X	.02
Ct Z	.02
T X (sec)	Not Entered
T Z (sec)	Not Entered
R X	3
R Z	3
Ct Exp. X	.75
Ct Exp. Z	.75
SD1	1
SDS	1
S1	1
TL (sec)	5
Risk Cat	I or II
Drift Cat	Other
Om Z	1
Om X	1
Cd Z	1
Cd X	1
Rho Z	1
Rho X	1

Hot Rolled Steel Properties

	Label	F [ksi]	G [ksi]	Nu	Therm (/1E..)	Density[k/ft..]	Yield[ksi]	Ry	Fu[ksi]	Rt
1	A992	29000	11154	.3	.65	.49	50	1.1	65	1.1
2	A36 Gr.36	29000	11154	.3	.65	.49	36	1.5	58	1.2
3	A572 Gr.50	29000	11154	.3	.65	.49	50	1.1	65	1.1
4	A500 Gr.B RND	29000	11154	.3	.65	.527	42	1.4	58	1.3
5	A500 Gr.B Rect	29000	11154	.3	.65	.527	46	1.4	58	1.3
6	A53 Gr.B	29000	11154	.3	.65	.49	35	1.6	60	1.2
7	A1085	29000	11154	.3	.65	.49	50	1.4	65	1.3

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design Rul...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Face Horiz	PIPE 3.0	None	None	A53 Gr.B	Typical	2.07	2.85	2.85	5.69
2	Support Arm	HSS4X4X4	None	None	A53 Gr.B	Typical	3.37	7.8	7.8	12.8
3	Internal	HSS4X4X4	None	None	A53 Gr.B	Typical	3.37	7.8	7.8	12.8
4	Grating Support	L2x2x3	None	None	A53 Gr.B	Typical	.722	.271	.271	.009
5	Corner Plate	PL6x1/2	None	None	A53 Gr.B	Typical	.3	.063	.9	.237
6	Handrail	PIPE 2.0	None	None	A53 Gr.B	Typical	1.02	.627	.627	1.25
7	Handrail Connection	L2.5x2.5x4	None	None	A36 Gr.36	Typical	1.19	.692	.692	.026
8	Mount Pipe	PIPE 2.0	None	None	A53 Gr.B	Typical	1.02	.627	.627	1.25
9	Kickers	LL2.5x2.5x3x3	None	None	A36 Gr.36	Typical	1.8	2.46	1.07	.023

Cold Formed Steel Section Sets

	Label	Shape	Type	Design List	Material	Design Rules	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	CF1A	8CU1.25X057	Beam	None	A653 SS Gr33	Typical	.581	.057	4.41	.00063



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Material Takeoff

	Material	Size	Pieces	Length[ft]	Weight[K]
1	Hot Rolled Steel				
2	A36 Gr.36	L2.5x2.5x4	3	3.7	.015
3	A36 Gr.36	LL2.5x2.5x3x3	3	12.8	.078
4	A53 Gr.B	HSS4X4X4	9	30.9	.355
5	A53 Gr.B	L2x2x3	6	24.5	.06
6	A53 Gr.B	PIPE 2.0	15	133.5	.463
7	A53 Gr.B	PIPE 3.0	3	37.5	.264
8	A53 Gr.B	PL6x1/2	3	3.1	.032
9	Total HR Steel		42	246.1	1.268

Joint Boundary Conditions

	Joint Label	X [k/in]	Y [k/in]	Z [k/in]	X Rot.[k-ft/rad]	Y Rot.[k-ft/rad]	Z Rot.[k-ft/rad]
1	SA-1	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
2	SA-3	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
3	SA-2	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
4	N100	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
5	N101	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
6	N102	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	CP-1	CP1-1	CP1-2			Corner Plate	None	None	A53 Gr.B	Typical
2	CP-2	CP2-1	CP2-2			Corner Plate	None	None	A53 Gr.B	Typical
3	CP-3	CP3-1	CP3-2			Corner Plate	None	None	A53 Gr.B	Typical
4	FF-HR	FF-3	FF-4			Handrail	None	None	A53 Gr.B	Typical
5	FF-TH	FF-1	FF-2			Face Horiz	None	None	A53 Gr.B	Typical
6	GSI-1A	GSI1-1	GSI1-2			Internal	None	None	A53 Gr.B	Typical
7	GSI-1B	GSI1-2	GSI1-3			Internal	None	None	A53 Gr.B	Typical
8	GSI-2A	GSI2-1	GSI2-2			Internal	None	None	A53 Gr.B	Typical
9	GSI-2B	GSI2-2	GSI2-3			Internal	None	None	A53 Gr.B	Typical
10	GSI-3A	GSI3-1	GSI3-2			Internal	None	None	A53 Gr.B	Typical
11	GSI-3B	GSI3-2	GSI3-3			Internal	None	None	A53 Gr.B	Typical
12	GSIP-1A	P1	P2			Grating Support	None	None	A53 Gr.B	Typical
13	GSIP-1B	P3	P4			Grating Support	None	None	A53 Gr.B	Typical
14	GSIP-2A	P5	P6			Grating Support	None	None	A53 Gr.B	Typical
15	GSIP-2B	P7	P8			Grating Support	None	None	A53 Gr.B	Typical
16	GSIP-3A	P9	P10			Grating Support	None	None	A53 Gr.B	Typical
17	GSIP-3B	P11	P12			Grating Support	None	None	A53 Gr.B	Typical
18	HRC-1	CP1U-A	CP1U-B		180	Handrail Connection	None	None	A36 Gr.36	Typical
19	HRC-2	CP2U-A	CP2U-B		180	Handrail Connection	None	None	A36 Gr.36	Typical
20	HRC-3	CP3U-A	CP3U-B		180	Handrail Connection	None	None	A36 Gr.36	Typical
21	K-1	N100	N108			Kickers	None	None	A36 Gr.36	Typical
22	K-2	N101	N103			Kickers	None	None	A36 Gr.36	Typical
23	K-3	N102	N104			Kickers	None	None	A36 Gr.36	Typical
24	MP-1	N64	N60			Mount Pipe	None	None	A53 Gr.B	Typical
25	MP-2	N65	N61			Mount Pipe	None	None	A53 Gr.B	Typical
26	MP-3	N66	N62			Mount Pipe	None	None	A53 Gr.B	Typical
27	MP-4	N67	N63			Mount Pipe	None	None	A53 Gr.B	Typical
28	MP-5	N80	N76			Mount Pipe	None	None	A53 Gr.B	Typical
29	MP-6	N81	N77			Mount Pipe	None	None	A53 Gr.B	Typical
30	MP-7	N82	N78			Mount Pipe	None	None	A53 Gr.B	Typical
31	MP-8	N83	N79			Mount Pipe	None	None	A53 Gr.B	Typical
32	MP-9	N96	N92			Mount Pipe	None	None	A53 Gr.B	Typical



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Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
33	MP-10	N97	N93			Mount Pipe	None	None	A53 Gr.B	Typical
34	MP-11	N98	N94			Mount Pipe	None	None	A53 Gr.B	Typical
35	MP-12	N99	N95			Mount Pipe	None	None	A53 Gr.B	Typical
36	SA-1	SA-1	SA-1B			Support Arm	None	None	A53 Gr.B	Typical
37	SA-2	SA-2	SA-2B			Support Arm	None	None	A53 Gr.B	Typical
38	SA-3	SA-3	SA-3B			Support Arm	None	None	A53 Gr.B	Typical
39	SF1-HR	SF1-3	SF1-4			Handrail	None	None	A53 Gr.B	Typical
40	SF1-TH	SF1-1	SF1-2			Face Horiz	None	None	A53 Gr.B	Typical
41	SF2-HR	SF2-3	SF2-4			Handrail	None	None	A53 Gr.B	Typical
42	SF2-TH	SF2-1	SF2-2			Face Horiz	None	None	A53 Gr.B	Typical

Member Advanced Data

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
1	CP-1	BenPIN	BenPIN				Yes	** NA **			None
2	CP-2	BenPIN	BenPIN				Yes	** NA **			None
3	CP-3	BenPIN	BenPIN				Yes	** NA **			None
4	FF-HR						Yes	** NA **			None
5	FF-TH						Yes	** NA **			None
6	GSI-1A	BenPIN					Yes	** NA **			None
7	GSI-1B		BenPIN				Yes	** NA **			None
8	GSI-2A	BenPIN					Yes	** NA **			None
9	GSI-2B		BenPIN				Yes	** NA **			None
10	GSI-3A	BenPIN					Yes	** NA **			None
11	GSI-3B		BenPIN				Yes	** NA **			None
12	GSIP-1A	BenPIN	BenPIN				Yes	** NA **			None
13	GSIP-1B	BenPIN	BenPIN				Yes	** NA **			None
14	GSIP-2A	BenPIN	BenPIN				Yes	** NA **			None
15	GSIP-2B	BenPIN	BenPIN				Yes	** NA **			None
16	GSIP-3A	BenPIN	BenPIN				Yes	** NA **			None
17	GSIP-3B	BenPIN	BenPIN				Yes	** NA **			None
18	HRC-1						Yes	** NA **			None
19	HRC-2						Yes	** NA **			None
20	HRC-3						Yes	** NA **			None
21	K-1	BenPIN	BenPIN				Yes	** NA **			None
22	K-2	BenPIN	BenPIN				Yes	** NA **			None
23	K-3	BenPIN	BenPIN				Yes	** NA **			None
24	MP-1						Yes	** NA **			None
25	MP-2						Yes	** NA **			None
26	MP-3						Yes	** NA **			None
27	MP-4						Yes	** NA **			None
28	MP-5						Yes	** NA **			None
29	MP-6						Yes	** NA **			None
30	MP-7						Yes	** NA **			None
31	MP-8						Yes	** NA **			None
32	MP-9						Yes	** NA **			None
33	MP-10						Yes	** NA **			None
34	MP-11						Yes	** NA **			None
35	MP-12						Yes	** NA **			None
36	SA-1						Yes	** NA **			None
37	SA-2						Yes	** NA **			None
38	SA-3						Yes	** NA **			None
39	SF1-HR						Yes	** NA **			None
40	SF1-TH						Yes	** NA **			None
41	SF2-HR						Yes	** NA **			None
42	SF2-TH						Yes	** NA **			None



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Hot Rolled Steel Design Parameters

Label	Shape	Length[ft]	Lbyy[ft]	Lbzz[ft]	Lcomp_top[ft]	Lcomp_bot[ft]	L-torqu...	Kyy	Kzz	Cb	Function
1	CP-1	Corner Plate	1.034	.5	.5			1	1		Lateral
2	CP-2	Corner Plate	1.034	.5	.5			1	1		Lateral
3	CP-3	Corner Plate	1.034	.5	.5			1	1		Lateral
4	FF-HR	Handrail	12.5					2.1	2.1		Lateral
5	FF-TH	Face Horiz	12.5	4.9				2.1	2.1		Lateral
6	GSI-1A	Internal	2.562					.8	.8		Lateral
7	GSI-1B	Internal	2.562					.8	.8		Lateral
8	GSI-2A	Internal	2.562					.8	.8		Lateral
9	GSI-2B	Internal	2.562					.8	.8		Lateral
10	GSI-3A	Internal	2.562					.8	.8		Lateral
11	GSI-3B	Internal	2.562					.8	.8		Lateral
12	GSIP-1A	Grating Sup...	4.091					1	1		Lateral
13	GSIP-1B	Grating Sup...	4.091					1	1		Lateral
14	GSIP-2A	Grating Sup...	4.091					1	1		Lateral
15	GSIP-2B	Grating Sup...	4.091					1	1		Lateral
16	GSIP-3A	Grating Sup...	4.091					1	1		Lateral
17	GSIP-3B	Grating Sup...	4.091					1	1		Lateral
18	HRC-1	Handrail Co...	1.25					.65	.65		Lateral
19	HRC-2	Handrail Co...	1.25					.65	.65		Lateral
20	HRC-3	Handrail Co...	1.25					.65	.65		Lateral
21	K-1	Kickers	4.25					1	1		Lateral
22	K-2	Kickers	4.25					1	1		Lateral
23	K-3	Kickers	4.25					1	1		Lateral
24	MP-1	Mount Pipe	8	Segment	Segment			2.1	2.1		Lateral
25	MP-2	Mount Pipe	8	Segment	Segment			2.1	2.1		Lateral
26	MP-3	Mount Pipe	8	Segment	Segment			2.1	2.1		Lateral
27	MP-4	Mount Pipe	8	Segment	Segment			2.1	2.1		Lateral
28	MP-5	Mount Pipe	8	Segment	Segment			2.1	2.1		Lateral
29	MP-6	Mount Pipe	8	Segment	Segment			2.1	2.1		Lateral
30	MP-7	Mount Pipe	8	Segment	Segment			2.1	2.1		Lateral
31	MP-8	Mount Pipe	8	Segment	Segment			2.1	2.1		Lateral
32	MP-9	Mount Pipe	8	Segment	Segment			2.1	2.1		Lateral
33	MP-10	Mount Pipe	8	Segment	Segment			2.1	2.1		Lateral
34	MP-11	Mount Pipe	8	Segment	Segment			2.1	2.1		Lateral
35	MP-12	Mount Pipe	8	Segment	Segment			2.1	2.1		Lateral
36	SA-1	Support Arm	5.187	3.54				1	1		Lateral
37	SA-2	Support Arm	5.187	3.54				1	1		Lateral
38	SA-3	Support Arm	5.187	3.54				1	1		Lateral
39	SF1-HR	Handrail	12.5					2.1	2.1		Lateral
40	SF1-TH	Face Horiz	12.5	4.9				2.1	2.1		Lateral
41	SF2-HR	Handrail	12.5					2.1	2.1		Lateral
42	SF2-TH	Face Horiz	12.5	4.9				2.1	2.1		Lateral

Cold Formed Steel Design Parameters

Label	Shape	Length	Lbyy[ft]	Lbzz[ft]	Lcomp_top	Lcomp_bot	Kyy	Kzz	Cm-yy	Cm-zz	Cb	R	y_sway	z_sway
No Data to Print ...														

Basic Load Cases

BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me...	Surface(P...
1	Dead	None	-1			33	3	
2	0 Wind - No Ice	None				33	42	
3	30 Wind - No Ice	None				66	84	
4	45 Wind - No Ice	None				66	84	



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Basic Load Cases (Continued)

BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me...	Surface(P...
5	60 Wind - No Ice	None				66	84	
6	90 Wind - No Ice	None				33	42	
7	120 Wind - No Ice	None				66	84	
8	135 Wind - No Ice	None				66	84	
9	150 Wind - No Ice	None				66	84	
10	180 Wind - No Ice	None				33	42	
11	210 Wind - No Ice	None				66	84	
12	225 Wind - No Ice	None				66	84	
13	240 Wind - No Ice	None				66	84	
14	270 Wind - No Ice	None				33	42	
15	300 Wind - No Ice	None				66	84	
16	315 Wind - No Ice	None				66	84	
17	330 Wind - No Ice	None				66	84	
18	Ice Weight	None				33	42	
19	0 Wind - Ice	None				33	42	
20	30 Wind - Ice	None				66	84	
21	45 Wind - Ice	None				66	84	
22	60 Wind - Ice	None				66	84	
23	90 Wind - Ice	None				33	42	
24	120 Wind - Ice	None				66	84	
25	135 Wind - Ice	None				66	84	
26	150 Wind - Ice	None				66	84	
27	180 Wind - Ice	None				33	42	
28	210 Wind - Ice	None				66	84	
29	225 Wind - Ice	None				66	84	
30	240 Wind - Ice	None				66	84	
31	270 Wind - Ice	None				33	42	
32	300 Wind - Ice	None				66	84	
33	315 Wind - Ice	None				66	84	
34	330 Wind - Ice	None				66	84	
35	Lm	None				1		
36	Lv	None				1		
37	Seismic Load X	ELX	-1			33		
38	Seismic Load Z	ELZ		-1		33		
39	BLC 1 Transient Area...	None					54	

Load Combinations

Description	Sol.	PD	SR	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...
1	1,4D	Yes	Y	1	1,4							
2	0.9D+1.0...	Yes	Y	1	.9	2	1					
3	0.9D+1.0...	Yes	Y	1	.9	3	1					
4	0.9D+1.0...	Yes	Y	1	.9	4	1					
5	0.9D+1.0...	Yes	Y	1	.9	5	1					
6	0.9D+1.0...	Yes	Y	1	.9	6	1					
7	0.9D+1.0...	Yes	Y	1	.9	7	1					
8	0.9D+1.0...	Yes	Y	1	.9	8	1					
9	0.9D+1.0...	Yes	Y	1	.9	9	1					
10	0.9D+1.0...	Yes	Y	1	.9	10	1					
11	0.9D+1.0...	Yes	Y	1	.9	11	1					
12	0.9D+1.0...	Yes	Y	1	.9	12	1					
13	0.9D+1.0...	Yes	Y	1	.9	13	1					
14	0.9D+1.0...	Yes	Y	1	.9	14	1					
15	0.9D+1.0...	Yes	Y	1	.9	15	1					
16	0.9D+1.0...	Yes	Y	1	.9	16	1					
17	0.9D+1.0...	Yes	Y	1	.9	17	1					



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Load Combinations (Continued)

Description	Sol.	PD.	SR.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.
18	1.2D+1.0	...	Yes	Y	1	1.2	2	1					
19	1.2D+1.0	...	Yes	Y	1	1.2	3	1					
20	1.2D+1.0	...	Yes	Y	1	1.2	4	1					
21	1.2D+1.0	...	Yes	Y	1	1.2	5	1					
22	1.2D+1.0	...	Yes	Y	1	1.2	6	1					
23	1.2D+1.0	...	Yes	Y	1	1.2	7	1					
24	1.2D+1.0	...	Yes	Y	1	1.2	8	1					
25	1.2D+1.0	...	Yes	Y	1	1.2	9	1					
26	1.2D+1.0	...	Yes	Y	1	1.2	10	1					
27	1.2D+1.0	...	Yes	Y	1	1.2	11	1					
28	1.2D+1.0	...	Yes	Y	1	1.2	12	1					
29	1.2D+1.0	...	Yes	Y	1	1.2	13	1					
30	1.2D+1.0	...	Yes	Y	1	1.2	14	1					
31	1.2D+1.0	...	Yes	Y	1	1.2	15	1					
32	1.2D+1.0	...	Yes	Y	1	1.2	16	1					
33	1.2D+1.0	...	Yes	Y	1	1.2	17	1					
34	1.2D+1.0	...	Yes	Y	1	1.2	18	1	19	1			
35	1.2D+1.0	...	Yes	Y	1	1.2	18	1	20	1			
36	1.2D+1.0	...	Yes	Y	1	1.2	18	1	21	1			
37	1.2D+1.0	...	Yes	Y	1	1.2	18	1	22	1			
38	1.2D+1.0	...	Yes	Y	1	1.2	18	1	23	1			
39	1.2D+1.0	...	Yes	Y	1	1.2	18	1	24	1			
40	1.2D+1.0	...	Yes	Y	1	1.2	18	1	25	1			
41	1.2D+1.0	...	Yes	Y	1	1.2	18	1	26	1			
42	1.2D+1.0	...	Yes	Y	1	1.2	18	1	27	1			
43	1.2D+1.0	...	Yes	Y	1	1.2	18	1	28	1			
44	1.2D+1.0	...	Yes	Y	1	1.2	18	1	29	1			
45	1.2D+1.0	...	Yes	Y	1	1.2	18	1	30	1			
46	1.2D+1.0	...	Yes	Y	1	1.2	18	1	31	1			
47	1.2D+1.0	...	Yes	Y	1	1.2	18	1	32	1			
48	1.2D+1.0	...	Yes	Y	1	1.2	18	1	33	1			
49	1.2D+1.0	...	Yes	Y	1	1.2	18	1	34	1			
50	1.2D+1.5Lv	...	Yes	Y	36	1.5	1	1.2					
51	1.2D+1.5L	...	Yes	Y	1	1.2	2	.058	35	1.5			
52	1.2D+1.5L	...	Yes	Y	1	1.2	3	.058	35	1.5			
53	1.2D+1.5L	...	Yes	Y	1	1.2	4	.058	35	1.5			
54	1.2D+1.5L	...	Yes	Y	1	1.2	5	.058	35	1.5			
55	1.2D+1.5L	...	Yes	Y	1	1.2	6	.058	35	1.5			
56	1.2D+1.5L	...	Yes	Y	1	1.2	7	.058	35	1.5			
57	1.2D+1.5L	...	Yes	Y	1	1.2	8	.058	35	1.5			
58	1.2D+1.5L	...	Yes	Y	1	1.2	9	.058	35	1.5			
59	1.2D+1.5L	...	Yes	Y	1	1.2	10	.058	35	1.5			
60	1.2D+1.5L	...	Yes	Y	1	1.2	11	.058	35	1.5			
61	1.2D+1.5L	...	Yes	Y	1	1.2	12	.058	35	1.5			
62	1.2D+1.5L	...	Yes	Y	1	1.2	13	.058	35	1.5			
63	1.2D+1.5L	...	Yes	Y	1	1.2	14	.058	35	1.5			
64	1.2D+1.5L	...	Yes	Y	1	1.2	15	.058	35	1.5			
65	1.2D+1.5L	...	Yes	Y	1	1.2	16	.058	35	1.5			
66	1.2D+1.5L	...	Yes	Y	1	1.2	17	.058	35	1.5			
67	1.2+0.2S	...	Yes	Y	1	1.228	ELX	.07	0				
68	1.2+0.2S	...	Yes	Y	1	1.228	ELX	.06	ELZ	.035			
69	1.2+0.2S	...	Yes	Y	1	1.228	ELX	.049	ELZ	.049			
70	1.2+0.2S	...	Yes	Y	1	1.228	ELX	.035	ELZ	.06			
71	1.2+0.2S	...	Yes	Y	1	1.228	0		ELZ	.07			
72	1.2+0.2S	...	Yes	Y	1	1.228	ELX	.035	ELZ	.06			
73	1.2+0.2S	...	Yes	Y	1	1.228	ELX	.049	ELZ	.049			
74	1.2+0.2S	...	Yes	Y	1	1.228	ELX	.06	ELZ	.035			



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Load Combinations (Continued)

Description	Sol.	PD.	SR.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.
75	1.2+0.2S	...	Yes	Y	1	1.228	ELX	-.07	0				
76	1.2+0.2S	...	Yes	Y	1	1.228	ELX	-.06	ELZ	.035			
77	1.2+0.2S	...	Yes	Y	1	1.228	ELX	-.049	ELZ	.049			
78	1.2+0.2S	...	Yes	Y	1	1.228	ELX	-.035	ELZ	.06			
79	1.2+0.2S	...	Yes	Y	1	1.228	0		ELZ	.07			
80	1.2+0.2S	...	Yes	Y	1	1.228	ELX	.035	ELZ	.06			
81	1.2+0.2S	...	Yes	Y	1	1.228	ELX	.049	ELZ	.049			
82	1.2+0.2S	...	Yes	Y	1	1.228	ELX	.06	ELZ	.035			
83	0.9-0.2Sd	...	Yes	Y	1	.872	ELX	.07	0				
84	0.9-0.2Sd	...	Yes	Y	1	.872	ELX	.06	ELZ	.035			
85	0.9-0.2Sd	...	Yes	Y	1	.872	ELX	.049	ELZ	.049			
86	0.9-0.2Sd	...	Yes	Y	1	.872	ELX	.035	ELZ	.06			
87	0.9-0.2Sd	...	Yes	Y	1	.872	0		ELZ	.07			
88	0.9-0.2Sd	...	Yes	Y	1	.872	ELX	-.035	ELZ	.06			
89	0.9-0.2Sd	...	Yes	Y	1	.872	ELX	-.049	ELZ	.049			
90	0.9-0.2Sd	...	Yes	Y	1	.872	ELX	-.06	ELZ	.035			
91	0.9-0.2Sd	...	Yes	Y	1	.872	ELX	-.07	0				
92	0.9-0.2Sd	...	Yes	Y	1	.872	ELX	-.06	ELZ	.035			
93	0.9-0.2Sd	...	Yes	Y	1	.872	ELX	-.049	ELZ	.049			
94	0.9-0.2Sd	...	Yes	Y	1	.872	ELX	-.035	ELZ	.06			
95	0.9-0.2Sd	...	Yes	Y	1	.872	0		ELZ	.07			
96	0.9-0.2Sd	...	Yes	Y	1	.872	ELX	.035	ELZ	.06			
97	0.9-0.2Sd	...	Yes	Y	1	.872	ELX	.049	ELZ	.049			
98	0.9-0.2Sd	...	Yes	Y	1	.872	ELX	.06	ELZ	.035			

Joint Loads and Enforced Displacements (BLC 35 : Lm)

Joint Label	L.D.M	Direction	Magnitude[(k.k-ft), (in.rad), (k*s^2/ft, k*s^2/ft)]	
1	N58	L	Y	-5

Joint Loads and Enforced Displacements (BLC 36 : Lv)

Joint Label	L.D.M	Direction	Magnitude[(k.k-ft), (in.rad), (k*s^2/ft, k*s^2/ft)]	
1	FF-2	L	Y	-25

Member Point Loads (BLC 1 : Dead)

Member Label	Direction	Magnitude[(k.k-ft)]	Location[ft.%]	
1	MP-1	Y	-.066	2
2	MP-2	Y	-.064	.5
3	MP-3	Y	-.052	3
4	MP-4	Y	-.046	2
5	MP-2	Y	-.075	1
6	MP-2	Y	-.046	3
7	MP-4	Y	-.011	1
8	MP-5	Y	-.066	2
9	MP-6	Y	-.064	.5
10	MP-7	Y	-.052	3
11	MP-8	Y	-.046	2
12	MP-6	Y	-.075	1
13	MP-6	Y	-.046	3
14	MP-8	Y	-.011	1
15	MP-9	Y	-.066	2
16	MP-10	Y	-.064	.5
17	MP-11	Y	-.052	3
18	MP-12	Y	-.046	2



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Member Point Loads (BLC 1 : Dead) (Continued)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
19	MP-10	Y	-0.75	1
20	MP-10	Y	-0.46	3
21	MP-12	Y	-0.11	1
22	MP-1	Y	-0.66	6
23	MP-2	Y	-0.64	7.5
24	MP-3	Y	-0.52	5
25	MP-4	Y	-0.46	6
26	MP-5	Y	-0.66	6
27	MP-6	Y	-0.64	7.5
28	MP-7	Y	-0.52	5
29	MP-8	Y	-0.46	6
30	MP-9	Y	-0.66	6
31	MP-10	Y	-0.64	7.5
32	MP-11	Y	-0.52	5
33	MP-12	Y	-0.46	6

Member Point Loads (BLC 2 : 0 Wind - No Ice)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	-1.05	2
2	MP-2	X	-2.04	.5
3	MP-3	X	-0.57	3
4	MP-4	X	-0.95	2
5	MP-2	X	-0.58	1
6	MP-2	X	-0.31	3
7	MP-4	X	-0.07	1
8	MP-5	X	-1.27	2
9	MP-6	X	-3.44	.5
10	MP-7	X	-0.96	3
11	MP-8	X	-1.17	2
12	MP-6	X	-0.67	1
13	MP-6	X	-0.55	3
14	MP-8	X	-0.12	1
15	MP-9	X	-1.21	2
16	MP-10	X	-.3	.5
17	MP-11	X	-0.84	3
18	MP-12	X	-.11	2
19	MP-10	X	-0.64	1
20	MP-10	X	-0.48	3
21	MP-12	X	-.01	1
22	MP-1	X	-1.05	6
23	MP-2	X	-2.04	7.5
24	MP-3	X	-0.57	5
25	MP-4	X	-0.95	6
26	MP-5	X	-1.27	6
27	MP-6	X	-3.44	7.5
28	MP-7	X	-0.96	5
29	MP-8	X	-1.17	6
30	MP-9	X	-1.21	6
31	MP-10	X	-.3	7.5
32	MP-11	X	-0.84	5
33	MP-12	X	-.11	6

Member Point Loads (BLC 3 : 30 Wind - No Ice)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	-1.04	2
2	MP-2	X	-.26	.5



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Member Point Loads (BLC 3 : 30 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
3	MP-3	X	-0.73	3
4	MP-4	X	-0.96	2
5	MP-2	X	-0.56	1
6	MP-2	X	-0.41	3
7	MP-4	X	-0.09	1
8	MP-5	X	-1.24	2
9	MP-6	X	-3.81	.5
10	MP-7	X	-1.07	3
11	MP-8	X	-1.15	2
12	MP-6	X	-0.63	1
13	MP-6	X	-0.62	3
14	MP-8	X	-0.13	1
15	MP-9	X	-0.91	2
16	MP-10	X	-1.77	.5
17	MP-11	X	-.05	3
18	MP-12	X	-0.82	2
19	MP-10	X	-0.51	1
20	MP-10	X	-0.27	3
21	MP-12	X	-0.06	1
22	MP-1	X	-1.04	6
23	MP-2	X	-.26	7.5
24	MP-3	X	-0.73	5
25	MP-4	X	-0.96	6
26	MP-5	X	-1.24	6
27	MP-6	X	-3.81	7.5
28	MP-7	X	-1.07	5
29	MP-8	X	-1.15	6
30	MP-9	X	-0.91	6
31	MP-10	X	-1.77	7.5
32	MP-11	X	-.05	5
33	MP-12	X	-0.82	6
34	MP-1	Z	-.06	2
35	MP-2	Z	-.15	.5
36	MP-3	Z	-.042	3
37	MP-4	Z	-.055	2
38	MP-2	Z	-.032	1
39	MP-2	Z	-.024	3
40	MP-4	Z	-.005	1
41	MP-5	Z	-.071	2
42	MP-6	Z	-.22	.5
43	MP-7	Z	-.062	3
44	MP-8	Z	-.066	2
45	MP-6	Z	-.036	1
46	MP-6	Z	-.036	3
47	MP-8	Z	-.008	1
48	MP-9	Z	-.053	2
49	MP-10	Z	-.102	.5
50	MP-11	Z	-.029	3
51	MP-12	Z	-.048	2
52	MP-10	Z	-.029	1
53	MP-10	Z	-.016	3
54	MP-12	Z	-.004	1
55	MP-1	Z	-.06	6
56	MP-2	Z	-.15	7.5
57	MP-3	Z	-.042	5
58	MP-4	Z	-.055	6
59	MP-5	Z	-.071	6



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Member Point Loads (BLC 3 : 30 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
60	MP-6	Z	-.22	7.5
61	MP-7	Z	-.062	5
62	MP-8	Z	-.066	6
63	MP-9	Z	-.053	6
64	MP-10	Z	-.102	7.5
65	MP-11	Z	-.029	5
66	MP-12	Z	-.048	6

Member Point Loads (BLC 4 : 45 Wind - No Ice)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	-.092	2
2	MP-2	X	-.258	.5
3	MP-3	X	-.072	3
4	MP-4	X	-.085	2
5	MP-2	X	-.048	1
6	MP-2	X	-.042	3
7	MP-4	X	-.009	1
8	MP-5	X	-.102	2
9	MP-6	X	-.315	.5
10	MP-7	X	-.088	3
11	MP-8	X	-.094	2
12	MP-6	X	-.051	1
13	MP-6	X	-.051	3
14	MP-8	X	-.011	1
15	MP-9	X	-.074	2
16	MP-10	X	-.14	.5
17	MP-11	X	-.039	3
18	MP-12	X	-.067	2
19	MP-10	X	-.041	1
20	MP-10	X	-.022	3
21	MP-12	X	-.005	1
22	MP-1	X	-.092	6
23	MP-2	X	-.258	7.5
24	MP-3	X	-.072	5
25	MP-4	X	-.085	6
26	MP-5	X	-.102	6
27	MP-6	X	-.315	7.5
28	MP-7	X	-.088	5
29	MP-8	X	-.094	6
30	MP-9	X	-.074	6
31	MP-10	X	-.14	7.5
32	MP-11	X	-.039	5
33	MP-12	X	-.067	6
34	MP-1	Z	-.092	2
35	MP-2	Z	-.258	.5
36	MP-3	Z	-.072	3
37	MP-4	Z	-.085	2
38	MP-2	Z	-.048	1
39	MP-2	Z	-.042	3
40	MP-4	Z	-.009	1
41	MP-5	Z	-.102	2
42	MP-6	Z	-.315	.5
43	MP-7	Z	-.088	3
44	MP-8	Z	-.094	2
45	MP-6	Z	-.051	1
46	MP-6	Z	-.051	3



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Member Point Loads (BLC 4 : 45 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
47	MP-8	Z	-.011	1
48	MP-9	Z	-.074	2
49	MP-10	Z	-.14	.5
50	MP-11	Z	-.039	3
51	MP-12	Z	-.067	2
52	MP-10	Z	-.041	1
53	MP-10	Z	-.022	3
54	MP-12	Z	-.005	1
55	MP-1	Z	-.092	6
56	MP-2	Z	-.258	7.5
57	MP-3	Z	-.072	5
58	MP-4	Z	-.085	6
59	MP-5	Z	-.102	6
60	MP-6	Z	-.315	7.5
61	MP-7	Z	-.088	5
62	MP-8	Z	-.094	6
63	MP-9	Z	-.074	6
64	MP-10	Z	-.14	7.5
65	MP-11	Z	-.039	5
66	MP-12	Z	-.067	6

Member Point Loads (BLC 5 : 60 Wind - No Ice)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	-.07	2
2	MP-2	X	-.209	.5
3	MP-3	X	-.059	3
4	MP-4	X	-.064	2
5	MP-2	X	-.036	1
6	MP-2	X	-.034	3
7	MP-4	X	-.007	1
8	MP-5	X	-.07	2
9	MP-6	X	-.209	.5
10	MP-7	X	-.059	3
11	MP-8	X	-.064	2
12	MP-6	X	-.036	1
13	MP-6	X	-.034	3
14	MP-8	X	-.007	1
15	MP-9	X	-.054	2
16	MP-10	X	-.113	.5
17	MP-11	X	-.032	3
18	MP-12	X	-.049	2
19	MP-10	X	-.03	1
20	MP-10	X	-.018	3
21	MP-12	X	-.004	1
22	MP-1	X	-.07	6
23	MP-2	X	-.209	7.5
24	MP-3	X	-.059	5
25	MP-4	X	-.064	6
26	MP-5	X	-.07	6
27	MP-6	X	-.209	7.5
28	MP-7	X	-.059	5
29	MP-8	X	-.064	6
30	MP-9	X	-.054	6
31	MP-10	X	-.113	7.5
32	MP-11	X	-.032	5
33	MP-12	X	-.049	6



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Member Point Loads (BLC 5 : 60 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
34	MP-1	Z	-.121	2
35	MP-2	Z	-.362	.5
36	MP-3	Z	-.102	3
37	MP-4	Z	-.112	2
38	MP-2	Z	-.062	1
39	MP-2	Z	-.059	3
40	MP-4	Z	-.013	1
41	MP-5	Z	-.121	2
42	MP-6	Z	-.362	.5
43	MP-7	Z	-.102	3
44	MP-8	Z	-.112	2
45	MP-6	Z	-.062	1
46	MP-6	Z	-.059	3
47	MP-8	Z	-.013	1
48	MP-9	Z	-.094	2
49	MP-10	Z	-.196	.5
50	MP-11	Z	-.055	3
51	MP-12	Z	-.085	2
52	MP-10	Z	-.052	1
53	MP-10	Z	-.03	3
54	MP-12	Z	-.007	1
55	MP-1	Z	-.121	6
56	MP-2	Z	-.362	7.5
57	MP-3	Z	-.102	5
58	MP-4	Z	-.112	6
59	MP-5	Z	-.121	6
60	MP-6	Z	-.362	7.5
61	MP-7	Z	-.102	5
62	MP-8	Z	-.112	6
63	MP-9	Z	-.094	6
64	MP-10	Z	-.196	7.5
65	MP-11	Z	-.055	5
66	MP-12	Z	-.085	6

Member Point Loads (BLC 6 : 90 Wind - No Ice)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	Z	-.143	2
2	MP-2	Z	-.44	.5
3	MP-3	Z	-.123	3
4	MP-4	Z	-.132	2
5	MP-2	Z	-.072	1
6	MP-2	Z	-.072	3
7	MP-4	Z	-.015	1
8	MP-5	Z	-.121	2
9	MP-6	Z	-.3	.5
10	MP-7	Z	-.084	3
11	MP-8	Z	-.11	2
12	MP-6	Z	-.064	1
13	MP-6	Z	-.048	3
14	MP-8	Z	-.01	1
15	MP-9	Z	-.127	2
16	MP-10	Z	-.344	.5
17	MP-11	Z	-.096	3
18	MP-12	Z	-.117	2
19	MP-10	Z	-.067	1
20	MP-10	Z	-.055	3



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Member Point Loads (BLC 6 : 90 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
21	MP-12	Z	-.012	1
22	MP-1	Z	-.143	6
23	MP-2	Z	-.44	7.5
24	MP-3	Z	-.123	5
25	MP-4	Z	-.132	6
26	MP-5	Z	-.121	6
27	MP-6	Z	-.3	7.5
28	MP-7	Z	-.084	5
29	MP-8	Z	-.11	6
30	MP-9	Z	-.127	6
31	MP-10	Z	-.344	7.5
32	MP-11	Z	-.096	5
33	MP-12	Z	-.117	6

Member Point Loads (BLC 7 : 120 Wind - No Ice)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	.064	2
2	MP-2	X	.172	.5
3	MP-3	X	.048	3
4	MP-4	X	.059	2
5	MP-2	X	.033	1
6	MP-2	X	.028	3
7	MP-4	X	.006	1
8	MP-5	X	.053	2
9	MP-6	X	.102	.5
10	MP-7	X	.029	3
11	MP-8	X	.048	2
12	MP-6	X	.029	1
13	MP-6	X	.016	3
14	MP-8	X	.004	1
15	MP-9	X	.071	2
16	MP-10	X	.22	.5
17	MP-11	X	.062	3
18	MP-12	X	.066	2
19	MP-10	X	.036	1
20	MP-10	X	.036	3
21	MP-12	X	.008	1
22	MP-1	X	.064	6
23	MP-2	X	.172	7.5
24	MP-3	X	.048	5
25	MP-4	X	.059	6
26	MP-5	X	.053	6
27	MP-6	X	.102	7.5
28	MP-7	X	.029	5
29	MP-8	X	.048	6
30	MP-9	X	.071	6
31	MP-10	X	.22	7.5
32	MP-11	X	.062	5
33	MP-12	X	.066	6
34	MP-1	Z	-.11	2
35	MP-2	Z	-.298	.5
36	MP-3	Z	-.084	3
37	MP-4	Z	-.101	2
38	MP-2	Z	-.058	1
39	MP-2	Z	-.048	3
40	MP-4	Z	-.01	1



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Member Point Loads (BLC 7 : 120 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
41	MP-5	Z	-.091	2
42	MP-6	Z	-.177	.5
43	MP-7	Z	-.05	3
44	MP-8	Z	-.082	2
45	MP-6	Z	-.051	1
46	MP-6	Z	-.027	3
47	MP-8	Z	-.006	1
48	MP-9	Z	-.124	2
49	MP-10	Z	-.381	.5
50	MP-11	Z	-.107	3
51	MP-12	Z	-.115	2
52	MP-10	Z	-.063	1
53	MP-10	Z	-.062	3
54	MP-12	Z	-.013	1
55	MP-1	Z	-.11	6
56	MP-2	Z	-.298	7.5
57	MP-3	Z	-.084	5
58	MP-4	Z	-.101	6
59	MP-5	Z	-.091	6
60	MP-6	Z	-.177	7.5
61	MP-7	Z	-.05	5
62	MP-8	Z	-.082	6
63	MP-9	Z	-.124	6
64	MP-10	Z	-.381	7.5
65	MP-11	Z	-.107	5
66	MP-12	Z	-.115	6

Member Point Loads (BLC 8 : 135 Wind - No Ice)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	.083	2
2	MP-2	X	.197	.5
3	MP-3	X	.055	3
4	MP-4	X	.076	2
5	MP-2	X	.044	1
6	MP-2	X	.031	3
7	MP-4	X	.007	1
8	MP-5	X	.074	2
9	MP-6	X	.14	.5
10	MP-7	X	.039	3
11	MP-8	X	.067	2
12	MP-6	X	.041	1
13	MP-6	X	.022	3
14	MP-8	X	.005	1
15	MP-9	X	.102	2
16	MP-10	X	.315	.5
17	MP-11	X	.088	3
18	MP-12	X	.094	2
19	MP-10	X	.051	1
20	MP-10	X	.051	3
21	MP-12	X	.011	1
22	MP-1	X	.083	6
23	MP-2	X	.197	7.5
24	MP-3	X	.055	5
25	MP-4	X	.076	6
26	MP-5	X	.074	6
27	MP-6	X	.14	7.5



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Member Point Loads (BLC 8 : 135 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
28	MP-7	X	.039	5
29	MP-8	X	.067	6
30	MP-9	X	.102	6
31	MP-10	X	.315	7.5
32	MP-11	X	.088	5
33	MP-12	X	.094	6
34	MP-1	Z	-.083	2
35	MP-2	Z	-.197	.5
36	MP-3	Z	-.055	3
37	MP-4	Z	-.076	2
38	MP-2	Z	-.044	1
39	MP-2	Z	-.031	3
40	MP-4	Z	-.007	1
41	MP-5	Z	-.074	2
42	MP-6	Z	-.14	.5
43	MP-7	Z	-.039	3
44	MP-8	Z	-.067	2
45	MP-6	Z	-.041	1
46	MP-6	Z	-.022	3
47	MP-8	Z	-.005	1
48	MP-9	Z	-.102	2
49	MP-10	Z	-.315	.5
50	MP-11	Z	-.088	3
51	MP-12	Z	-.094	2
52	MP-10	Z	-.051	1
53	MP-10	Z	-.051	3
54	MP-12	Z	-.011	1
55	MP-1	Z	-.083	6
56	MP-2	Z	-.197	7.5
57	MP-3	Z	-.055	5
58	MP-4	Z	-.076	6
59	MP-5	Z	-.074	6
60	MP-6	Z	-.14	7.5
61	MP-7	Z	-.039	5
62	MP-8	Z	-.067	6
63	MP-9	Z	-.102	6
64	MP-10	Z	-.315	7.5
65	MP-11	Z	-.088	5
66	MP-12	Z	-.094	6

Member Point Loads (BLC 9 : 150 Wind - No Ice)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	.094	2
2	MP-2	X	.196	.5
3	MP-3	X	.055	3
4	MP-4	X	.085	2
5	MP-2	X	.052	1
6	MP-2	X	.03	3
7	MP-4	X	.007	1
8	MP-5	X	.094	2
9	MP-6	X	.196	.5
10	MP-7	X	.055	3
11	MP-8	X	.085	2
12	MP-6	X	.052	1
13	MP-6	X	.03	3
14	MP-8	X	.007	1



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Member Point Loads (BLC 9 : 150 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
15	MP-9	X	.121	2
16	MP-10	X	.362	.5
17	MP-11	X	.102	3
18	MP-12	X	.112	2
19	MP-10	X	.062	1
20	MP-10	X	.059	3
21	MP-12	X	.013	1
22	MP-1	X	.094	6
23	MP-2	X	.196	7.5
24	MP-3	X	.055	5
25	MP-4	X	.085	6
26	MP-5	X	.094	6
27	MP-6	X	.196	7.5
28	MP-7	X	.055	5
29	MP-8	X	.085	6
30	MP-9	X	.121	6
31	MP-10	X	.362	7.5
32	MP-11	X	.102	5
33	MP-12	X	.112	6
34	MP-1	Z	-.054	2
35	MP-2	Z	-.113	.5
36	MP-3	Z	-.032	3
37	MP-4	Z	-.049	2
38	MP-2	Z	-.03	1
39	MP-2	Z	-.018	3
40	MP-4	Z	-.004	1
41	MP-5	Z	-.054	2
42	MP-6	Z	-.113	.5
43	MP-7	Z	-.032	3
44	MP-8	Z	-.049	2
45	MP-6	Z	-.03	1
46	MP-6	Z	-.018	3
47	MP-8	Z	-.004	1
48	MP-9	Z	-.07	2
49	MP-10	Z	-.209	.5
50	MP-11	Z	-.059	3
51	MP-12	Z	-.064	2
52	MP-10	Z	-.036	1
53	MP-10	Z	-.034	3
54	MP-12	Z	-.007	1
55	MP-1	Z	-.054	6
56	MP-2	Z	-.113	7.5
57	MP-3	Z	-.032	5
58	MP-4	Z	-.049	6
59	MP-5	Z	-.054	6
60	MP-6	Z	-.113	7.5
61	MP-7	Z	-.032	5
62	MP-8	Z	-.049	6
63	MP-9	Z	-.07	6
64	MP-10	Z	-.209	7.5
65	MP-11	Z	-.059	5
66	MP-12	Z	-.064	6

Member Point Loads (BLC 10 : 180 Wind - No Ice)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	.105	2



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Member Point Loads (BLC 10 : 180 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
2	MP-2	X	.204	.5
3	MP-3	X	.057	3
4	MP-4	X	.095	2
5	MP-2	X	.058	1
6	MP-2	X	.031	3
7	MP-4	X	.007	1
8	MP-5	X	.127	2
9	MP-6	X	.344	.5
10	MP-7	X	.096	3
11	MP-8	X	.117	2
12	MP-6	X	.067	1
13	MP-6	X	.055	3
14	MP-8	X	.012	1
15	MP-9	X	.121	2
16	MP-10	X	.3	.5
17	MP-11	X	.084	3
18	MP-12	X	.11	2
19	MP-10	X	.064	1
20	MP-10	X	.048	3
21	MP-12	X	.01	1
22	MP-1	X	.105	6
23	MP-2	X	.204	7.5
24	MP-3	X	.057	5
25	MP-4	X	.095	6
26	MP-5	X	.127	6
27	MP-6	X	.344	7.5
28	MP-7	X	.096	5
29	MP-8	X	.117	6
30	MP-9	X	.121	6
31	MP-10	X	.3	7.5
32	MP-11	X	.084	5
33	MP-12	X	.11	6

Member Point Loads (BLC 11 : 210 Wind - No Ice)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	.104	2
2	MP-2	X	.26	.5
3	MP-3	X	.073	3
4	MP-4	X	.096	2
5	MP-2	X	.056	1
6	MP-2	X	.041	3
7	MP-4	X	.009	1
8	MP-5	X	.124	2
9	MP-6	X	.381	.5
10	MP-7	X	.107	3
11	MP-8	X	.115	2
12	MP-6	X	.063	1
13	MP-6	X	.062	3
14	MP-8	X	.013	1
15	MP-9	X	.091	2
16	MP-10	X	.177	.5
17	MP-11	X	.05	3
18	MP-12	X	.082	2
19	MP-10	X	.051	1
20	MP-10	X	.027	3
21	MP-12	X	.006	1



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Member Point Loads (BLC 11 : 210 Wind - No Ice) (Continued)

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
22	MP-1	.104	6
23	MP-2	.26	7.5
24	MP-3	.073	5
25	MP-4	.096	6
26	MP-5	.124	6
27	MP-6	.381	7.5
28	MP-7	.107	5
29	MP-8	.115	6
30	MP-9	.091	6
31	MP-10	.177	7.5
32	MP-11	.05	5
33	MP-12	.082	6
34	MP-1	.06	2
35	MP-2	.15	.5
36	MP-3	.042	3
37	MP-4	.055	2
38	MP-2	.032	1
39	MP-2	.024	3
40	MP-4	.005	1
41	MP-5	.071	2
42	MP-6	.22	.5
43	MP-7	.062	3
44	MP-8	.066	2
45	MP-6	.036	1
46	MP-6	.036	3
47	MP-8	.008	1
48	MP-9	.053	2
49	MP-10	.102	.5
50	MP-11	.029	3
51	MP-12	.048	2
52	MP-10	.029	1
53	MP-10	.016	3
54	MP-12	.004	1
55	MP-1	.06	6
56	MP-2	.15	7.5
57	MP-3	.042	5
58	MP-4	.055	6
59	MP-5	.071	6
60	MP-6	.22	7.5
61	MP-7	.062	5
62	MP-8	.066	6
63	MP-9	.053	6
64	MP-10	.102	7.5
65	MP-11	.029	5
66	MP-12	.048	6

Member Point Loads (BLC 12 : 225 Wind - No Ice)

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	.092	2
2	MP-2	.258	.5
3	MP-3	.072	3
4	MP-4	.085	2
5	MP-2	.048	1
6	MP-2	.042	3
7	MP-4	.009	1
8	MP-5	.102	2



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Member Point Loads (BLC 12 : 225 Wind - No Ice) (Continued)

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
9	MP-6	.315	.5
10	MP-7	.088	3
11	MP-8	.094	2
12	MP-6	.051	1
13	MP-6	.051	3
14	MP-8	.011	1
15	MP-9	.074	2
16	MP-10	.14	.5
17	MP-11	.039	3
18	MP-12	.067	2
19	MP-10	.041	1
20	MP-10	.022	3
21	MP-12	.005	1
22	MP-1	.092	6
23	MP-2	.258	7.5
24	MP-3	.072	5
25	MP-4	.085	6
26	MP-5	.102	6
27	MP-6	.315	7.5
28	MP-7	.088	5
29	MP-8	.094	6
30	MP-9	.074	6
31	MP-10	.14	7.5
32	MP-11	.039	5
33	MP-12	.067	6
34	MP-1	.092	2
35	MP-2	.258	.5
36	MP-3	.072	3
37	MP-4	.085	2
38	MP-2	.048	1
39	MP-2	.042	3
40	MP-4	.009	1
41	MP-5	.102	2
42	MP-6	.315	.5
43	MP-7	.088	3
44	MP-8	.094	2
45	MP-6	.051	1
46	MP-6	.051	3
47	MP-8	.011	1
48	MP-9	.074	2
49	MP-10	.14	.5
50	MP-11	.039	3
51	MP-12	.067	2
52	MP-10	.041	1
53	MP-10	.022	3
54	MP-12	.005	1
55	MP-1	.092	6
56	MP-2	.258	7.5
57	MP-3	.072	5
58	MP-4	.085	6
59	MP-5	.102	6
60	MP-6	.315	7.5
61	MP-7	.088	5
62	MP-8	.094	6
63	MP-9	.074	6
64	MP-10	.14	7.5
65	MP-11	.039	5



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Member Point Loads (BLC 12 : 225 Wind - No Ice) (Continued)

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
66 MP-12	Z	.067	6

Member Point Loads (BLC 13 : 240 Wind - No Ice)

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1 MP-1	X	.07	2
2 MP-2	X	.209	.5
3 MP-3	X	.059	3
4 MP-4	X	.064	2
5 MP-2	X	.036	1
6 MP-2	X	.034	3
7 MP-4	X	.007	1
8 MP-5	X	.07	2
9 MP-6	X	.209	.5
10 MP-7	X	.059	3
11 MP-8	X	.064	2
12 MP-6	X	.036	1
13 MP-6	X	.034	3
14 MP-8	X	.007	1
15 MP-9	X	.054	2
16 MP-10	X	.113	.5
17 MP-11	X	.032	3
18 MP-12	X	.049	2
19 MP-10	X	.03	1
20 MP-10	X	.018	3
21 MP-12	X	.004	1
22 MP-1	X	.07	6
23 MP-2	X	.209	7.5
24 MP-3	X	.059	5
25 MP-4	X	.064	6
26 MP-5	X	.07	6
27 MP-6	X	.209	7.5
28 MP-7	X	.059	5
29 MP-8	X	.064	6
30 MP-9	X	.054	6
31 MP-10	X	.113	7.5
32 MP-11	X	.032	5
33 MP-12	X	.049	6
34 MP-1	Z	.121	2
35 MP-2	Z	.362	.5
36 MP-3	Z	.102	3
37 MP-4	Z	.112	2
38 MP-2	Z	.062	1
39 MP-2	Z	.059	3
40 MP-4	Z	.013	1
41 MP-5	Z	.121	2
42 MP-6	Z	.362	.5
43 MP-7	Z	.102	3
44 MP-8	Z	.112	2
45 MP-6	Z	.062	1
46 MP-6	Z	.059	3
47 MP-8	Z	.013	1
48 MP-9	Z	.094	2
49 MP-10	Z	.196	.5
50 MP-11	Z	.055	3
51 MP-12	Z	.085	2
52 MP-10	Z	.052	1



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Member Point Loads (BLC 13 : 240 Wind - No Ice) (Continued)

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
53 MP-10	Z	.03	3
54 MP-12	Z	.007	1
55 MP-1	Z	.121	6
56 MP-2	Z	.362	7.5
57 MP-3	Z	.102	5
58 MP-4	Z	.112	6
59 MP-5	Z	.121	6
60 MP-6	Z	.362	7.5
61 MP-7	Z	.102	5
62 MP-8	Z	.112	6
63 MP-9	Z	.094	6
64 MP-10	Z	.196	7.5
65 MP-11	Z	.055	5
66 MP-12	Z	.085	6

Member Point Loads (BLC 14 : 270 Wind - No Ice)

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1 MP-1	Z	.143	2
2 MP-2	Z	.44	.5
3 MP-3	Z	.123	3
4 MP-4	Z	.132	2
5 MP-2	Z	.072	1
6 MP-2	Z	.072	3
7 MP-4	Z	.015	1
8 MP-5	Z	.121	2
9 MP-6	Z	.3	.5
10 MP-7	Z	.084	3
11 MP-8	Z	.11	2
12 MP-6	Z	.064	1
13 MP-6	Z	.048	3
14 MP-8	Z	.01	1
15 MP-9	Z	.127	2
16 MP-10	Z	.344	.5
17 MP-11	Z	.096	3
18 MP-12	Z	.117	2
19 MP-10	Z	.067	1
20 MP-10	Z	.055	3
21 MP-12	Z	.012	1
22 MP-1	Z	.143	6
23 MP-2	Z	.44	7.5
24 MP-3	Z	.123	5
25 MP-4	Z	.132	6
26 MP-5	Z	.121	6
27 MP-6	Z	.3	7.5
28 MP-7	Z	.084	5
29 MP-8	Z	.11	6
30 MP-9	Z	.127	6
31 MP-10	Z	.344	7.5
32 MP-11	Z	.096	5
33 MP-12	Z	.117	6

Member Point Loads (BLC 15 : 300 Wind - No Ice)

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1 MP-1	X	-.064	2
2 MP-2	X	-.172	.5
3 MP-3	X	-.048	3



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Member Point Loads (BLC 15 : 300 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
4	MP-4	X	-0.059	2
5	MP-2	X	-0.033	1
6	MP-2	X	-0.028	3
7	MP-4	X	-0.006	1
8	MP-5	X	-0.053	2
9	MP-6	X	-0.102	5
10	MP-7	X	-0.029	3
11	MP-8	X	-0.048	2
12	MP-6	X	-0.029	1
13	MP-6	X	-0.016	3
14	MP-8	X	-0.004	1
15	MP-9	X	-0.071	2
16	MP-10	X	-0.22	5
17	MP-11	X	-0.062	3
18	MP-12	X	-0.066	2
19	MP-10	X	-0.036	1
20	MP-10	X	-0.036	3
21	MP-12	X	-0.008	1
22	MP-1	X	-0.064	6
23	MP-2	X	-0.172	7.5
24	MP-3	X	-0.048	5
25	MP-4	X	-0.059	6
26	MP-5	X	-0.053	6
27	MP-6	X	-0.102	7.5
28	MP-7	X	-0.029	5
29	MP-8	X	-0.048	6
30	MP-9	X	-0.071	6
31	MP-10	X	-0.22	7.5
32	MP-11	X	-0.062	5
33	MP-12	X	-0.066	6
34	MP-1	Z	.11	2
35	MP-2	Z	.298	5
36	MP-3	Z	.084	3
37	MP-4	Z	.101	2
38	MP-2	Z	.058	1
39	MP-2	Z	.048	3
40	MP-4	Z	.01	1
41	MP-5	Z	.091	2
42	MP-6	Z	.177	5
43	MP-7	Z	.05	3
44	MP-8	Z	.082	2
45	MP-6	Z	.051	1
46	MP-6	Z	.027	3
47	MP-8	Z	.006	1
48	MP-9	Z	.124	2
49	MP-10	Z	.381	5
50	MP-11	Z	.107	3
51	MP-12	Z	.115	2
52	MP-10	Z	.063	1
53	MP-10	Z	.062	3
54	MP-12	Z	.013	1
55	MP-1	Z	.11	6
56	MP-2	Z	.298	7.5
57	MP-3	Z	.084	5
58	MP-4	Z	.101	6
59	MP-5	Z	.091	6
60	MP-6	Z	.177	7.5



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Member Point Loads (BLC 15 : 300 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
61	MP-7	Z	.05	5
62	MP-8	Z	.082	6
63	MP-9	Z	.124	6
64	MP-10	Z	.381	7.5
65	MP-11	Z	.107	5
66	MP-12	Z	.115	6

Member Point Loads (BLC 16 : 315 Wind - No Ice)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	-0.083	2
2	MP-2	X	-0.197	5
3	MP-3	X	-0.055	3
4	MP-4	X	-0.076	2
5	MP-2	X	-0.044	1
6	MP-2	X	-0.031	3
7	MP-4	X	-0.007	1
8	MP-5	X	-0.074	2
9	MP-6	X	-.14	5
10	MP-7	X	-0.039	3
11	MP-8	X	-0.067	2
12	MP-6	X	-0.041	1
13	MP-6	X	-0.022	3
14	MP-8	X	-0.005	1
15	MP-9	X	-0.102	2
16	MP-10	X	-.315	5
17	MP-11	X	-0.088	3
18	MP-12	X	-0.094	2
19	MP-10	X	-0.051	1
20	MP-10	X	-0.051	3
21	MP-12	X	-0.011	1
22	MP-1	X	-0.083	6
23	MP-2	X	-0.197	7.5
24	MP-3	X	-0.055	5
25	MP-4	X	-0.076	6
26	MP-5	X	-0.074	6
27	MP-6	X	-.14	7.5
28	MP-7	X	-0.039	5
29	MP-8	X	-0.067	6
30	MP-9	X	-0.102	6
31	MP-10	X	-.315	7.5
32	MP-11	X	-0.088	5
33	MP-12	X	-0.094	6
34	MP-1	Z	.083	2
35	MP-2	Z	.197	5
36	MP-3	Z	.055	3
37	MP-4	Z	.076	2
38	MP-2	Z	.044	1
39	MP-2	Z	.031	3
40	MP-4	Z	.007	1
41	MP-5	Z	.074	2
42	MP-6	Z	.14	5
43	MP-7	Z	.039	3
44	MP-8	Z	.067	2
45	MP-6	Z	.041	1
46	MP-6	Z	.022	3
47	MP-8	Z	.005	1



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Member Point Loads (BLC 16 : 315 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
48	MP-9	Z	.102	2
49	MP-10	Z	.315	.5
50	MP-11	Z	.088	3
51	MP-12	Z	.094	2
52	MP-10	Z	.051	1
53	MP-10	Z	.051	3
54	MP-12	Z	.011	1
55	MP-1	Z	.083	6
56	MP-2	Z	.197	7.5
57	MP-3	Z	.055	5
58	MP-4	Z	.076	6
59	MP-5	Z	.074	6
60	MP-6	Z	.14	7.5
61	MP-7	Z	.039	5
62	MP-8	Z	.067	6
63	MP-9	Z	.102	6
64	MP-10	Z	.315	7.5
65	MP-11	Z	.088	5
66	MP-12	Z	.094	6

Member Point Loads (BLC 17 : 330 Wind - No Ice)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	-.094	2
2	MP-2	X	-.196	.5
3	MP-3	X	-.055	3
4	MP-4	X	-.085	2
5	MP-2	X	-.052	1
6	MP-2	X	-.03	3
7	MP-4	X	-.007	1
8	MP-5	X	-.094	2
9	MP-6	X	-.196	.5
10	MP-7	X	-.055	3
11	MP-8	X	-.085	2
12	MP-6	X	-.052	1
13	MP-6	X	-.03	3
14	MP-8	X	-.007	1
15	MP-9	X	-.121	2
16	MP-10	X	-.362	.5
17	MP-11	X	-.102	3
18	MP-12	X	-.112	2
19	MP-10	X	-.062	1
20	MP-10	X	-.059	3
21	MP-12	X	-.013	1
22	MP-1	X	-.094	6
23	MP-2	X	-.196	7.5
24	MP-3	X	-.055	5
25	MP-4	X	-.085	6
26	MP-5	X	-.094	6
27	MP-6	X	-.196	7.5
28	MP-7	X	-.055	5
29	MP-8	X	-.085	6
30	MP-9	X	-.121	6
31	MP-10	X	-.362	7.5
32	MP-11	X	-.102	5
33	MP-12	X	-.112	6
34	MP-1	Z	.054	2



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Member Point Loads (BLC 17 : 330 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
35	MP-2	Z	.113	.5
36	MP-3	Z	.032	3
37	MP-4	Z	.049	2
38	MP-2	Z	.03	1
39	MP-2	Z	.018	3
40	MP-4	Z	.004	1
41	MP-5	Z	.054	2
42	MP-6	Z	.113	.5
43	MP-7	Z	.032	3
44	MP-8	Z	.049	2
45	MP-6	Z	.03	1
46	MP-6	Z	.018	3
47	MP-8	Z	.004	1
48	MP-9	Z	.07	2
49	MP-10	Z	.209	.5
50	MP-11	Z	.059	3
51	MP-12	Z	.064	2
52	MP-10	Z	.036	1
53	MP-10	Z	.034	3
54	MP-12	Z	.007	1
55	MP-1	Z	.054	6
56	MP-2	Z	.113	7.5
57	MP-3	Z	.032	5
58	MP-4	Z	.049	6
59	MP-5	Z	.054	6
60	MP-6	Z	.113	7.5
61	MP-7	Z	.032	5
62	MP-8	Z	.049	6
63	MP-9	Z	.07	6
64	MP-10	Z	.209	7.5
65	MP-11	Z	.059	5
66	MP-12	Z	.064	6

Member Point Loads (BLC 18 : Ice Weight)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	Y	-.075	2
2	MP-2	Y	-.178	.5
3	MP-3	Y	-.064	3
4	MP-4	Y	-.068	2
5	MP-2	Y	-.059	1
6	MP-2	Y	-.044	3
7	MP-4	Y	-.013	1
8	MP-5	Y	-.075	2
9	MP-6	Y	-.178	.5
10	MP-7	Y	-.064	3
11	MP-8	Y	-.068	2
12	MP-6	Y	-.059	1
13	MP-6	Y	-.044	3
14	MP-8	Y	-.013	1
15	MP-9	Y	-.075	2
16	MP-10	Y	-.178	.5
17	MP-11	Y	-.064	3
18	MP-12	Y	-.068	2
19	MP-10	Y	-.059	1
20	MP-10	Y	-.044	3
21	MP-12	Y	-.013	1



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Member Point Loads (BLC 18 : Ice Weight) (Continued)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
22	MP-1	Y	-0.75	6
23	MP-2	Y	-1.78	7.5
24	MP-3	Y	-0.64	5
25	MP-4	Y	-0.68	6
26	MP-5	Y	-0.75	6
27	MP-6	Y	-1.78	7.5
28	MP-7	Y	-0.64	5
29	MP-8	Y	-0.68	6
30	MP-9	Y	-0.75	6
31	MP-10	Y	-1.78	7.5
32	MP-11	Y	-0.64	5
33	MP-12	Y	-0.68	6

Member Point Loads (BLC 19 : 0 Wind - Ice)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	-0.31	2
2	MP-2	X	-0.86	.5
3	MP-3	X	-0.26	3
4	MP-4	X	-0.29	2
5	MP-2	X	-0.18	1
6	MP-2	X	-0.18	3
7	MP-4	X	-0.06	1
8	MP-5	X	-0.31	2
9	MP-6	X	-0.86	.5
10	MP-7	X	-0.26	3
11	MP-8	X	-0.29	2
12	MP-6	X	-0.18	1
13	MP-6	X	-0.18	3
14	MP-8	X	-0.06	1
15	MP-9	X	-0.31	2
16	MP-10	X	-0.86	.5
17	MP-11	X	-0.26	3
18	MP-12	X	-0.29	2
19	MP-10	X	-0.18	1
20	MP-10	X	-0.18	3
21	MP-12	X	-0.06	1
22	MP-1	X	-0.31	6
23	MP-2	X	-0.86	7.5
24	MP-3	X	-0.26	5
25	MP-4	X	-0.29	6
26	MP-5	X	-0.31	6
27	MP-6	X	-0.86	7.5
28	MP-7	X	-0.26	5
29	MP-8	X	-0.29	6
30	MP-9	X	-0.31	6
31	MP-10	X	-0.86	7.5
32	MP-11	X	-0.26	5
33	MP-12	X	-0.29	6

Member Point Loads (BLC 20 : 30 Wind - Ice)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	-0.23	2
2	MP-2	X	-0.53	.5
3	MP-3	X	-0.16	3
4	MP-4	X	-0.21	2
5	MP-2	X	-0.14	1



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Member Point Loads (BLC 20 : 30 Wind - Ice) (Continued)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
6	MP-2	X	-0.11	3
7	MP-4	X	-0.04	1
8	MP-5	X	-0.26	2
9	MP-6	X	-0.74	.5
10	MP-7	X	-0.22	3
11	MP-8	X	-0.25	2
12	MP-6	X	-0.15	1
13	MP-6	X	-0.15	3
14	MP-8	X	-0.05	1
15	MP-9	X	-0.21	2
16	MP-10	X	-0.38	.5
17	MP-11	X	-0.12	3
18	MP-12	X	-0.19	2
19	MP-10	X	-0.13	1
20	MP-10	X	-0.08	3
21	MP-12	X	-0.03	1
22	MP-1	X	-0.23	6
23	MP-2	X	-0.53	7.5
24	MP-3	X	-0.16	5
25	MP-4	X	-0.21	6
26	MP-5	X	-0.26	6
27	MP-6	X	-0.74	7.5
28	MP-7	X	-0.22	5
29	MP-8	X	-0.25	6
30	MP-9	X	-0.21	6
31	MP-10	X	-0.38	7.5
32	MP-11	X	-0.12	5
33	MP-12	X	-0.19	6
34	MP-1	Z	-0.13	2
35	MP-2	Z	-0.3	.5
36	MP-3	Z	-0.09	3
37	MP-4	Z	-0.12	2
38	MP-2	Z	-0.08	1
39	MP-2	Z	-0.06	3
40	MP-4	Z	-0.02	1
41	MP-5	Z	-0.15	2
42	MP-6	Z	-0.42	.5
43	MP-7	Z	-0.13	3
44	MP-8	Z	-0.14	2
45	MP-6	Z	-0.09	1
46	MP-6	Z	-0.09	3
47	MP-8	Z	-0.03	1
48	MP-9	Z	-0.12	2
49	MP-10	Z	-0.22	.5
50	MP-11	Z	-0.07	3
51	MP-12	Z	-0.11	2
52	MP-10	Z	-0.08	1
53	MP-10	Z	-0.05	3
54	MP-12	Z	-0.02	1
55	MP-1	Z	-0.13	6
56	MP-2	Z	-0.3	7.5
57	MP-3	Z	-0.09	5
58	MP-4	Z	-0.12	6
59	MP-5	Z	-0.15	6
60	MP-6	Z	-0.42	7.5
61	MP-7	Z	-0.13	5
62	MP-8	Z	-0.14	6



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Member Point Loads (BLC 20 : 30 Wind - Ice) (Continued)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
63	MP-9	Z	-0.12	6
64	MP-10	Z	-0.22	7.5
65	MP-11	Z	-0.07	5
66	MP-12	Z	-0.11	6

Member Point Loads (BLC 21 : 45 Wind - Ice)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	-0.2	2
2	MP-2	X	-0.51	5
3	MP-3	X	-0.16	3
4	MP-4	X	-0.19	2
5	MP-2	X	-0.12	1
6	MP-2	X	-0.11	3
7	MP-4	X	-0.03	1
8	MP-5	X	-0.22	2
9	MP-6	X	-0.61	5
10	MP-7	X	-0.19	3
11	MP-8	X	-0.2	2
12	MP-6	X	-0.13	1
13	MP-6	X	-0.13	3
14	MP-8	X	-0.04	1
15	MP-9	X	-0.17	2
16	MP-10	X	-0.31	5
17	MP-11	X	-0.09	3
18	MP-12	X	-0.15	2
19	MP-10	X	-0.11	1
20	MP-10	X	-0.07	3
21	MP-12	X	-0.02	1
22	MP-1	X	-0.2	6
23	MP-2	X	-0.51	7.5
24	MP-3	X	-0.16	5
25	MP-4	X	-0.19	6
26	MP-5	X	-0.22	6
27	MP-6	X	-0.61	7.5
28	MP-7	X	-0.19	5
29	MP-8	X	-0.2	6
30	MP-9	X	-0.17	6
31	MP-10	X	-0.31	7.5
32	MP-11	X	-0.09	5
33	MP-12	X	-0.15	6
34	MP-1	Z	-0.2	2
35	MP-2	Z	-0.51	5
36	MP-3	Z	-0.16	3
37	MP-4	Z	-0.19	2
38	MP-2	Z	-0.12	1
39	MP-2	Z	-0.11	3
40	MP-4	Z	-0.03	1
41	MP-5	Z	-0.22	2
42	MP-6	Z	-0.61	5
43	MP-7	Z	-0.19	3
44	MP-8	Z	-0.2	2
45	MP-6	Z	-0.13	1
46	MP-6	Z	-0.13	3
47	MP-8	Z	-0.04	1
48	MP-9	Z	-0.17	2
49	MP-10	Z	-0.31	5



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Member Point Loads (BLC 21 : 45 Wind - Ice) (Continued)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
50	MP-11	Z	-0.09	3
51	MP-12	Z	-0.15	2
52	MP-10	Z	-0.11	1
53	MP-10	Z	-0.07	3
54	MP-12	Z	-0.02	1
55	MP-1	Z	-0.2	6
56	MP-2	Z	-0.51	7.5
57	MP-3	Z	-0.16	5
58	MP-4	Z	-0.19	6
59	MP-5	Z	-0.22	6
60	MP-6	Z	-0.61	7.5
61	MP-7	Z	-0.19	5
62	MP-8	Z	-0.2	6
63	MP-9	Z	-0.17	6
64	MP-10	Z	-0.31	7.5
65	MP-11	Z	-0.09	5
66	MP-12	Z	-0.15	6

Member Point Loads (BLC 22 : 60 Wind - Ice)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	-0.15	2
2	MP-2	X	-0.41	5
3	MP-3	X	-0.12	3
4	MP-4	X	-0.14	2
5	MP-2	X	-0.09	1
6	MP-2	X	-0.08	3
7	MP-4	X	-0.03	1
8	MP-5	X	-0.15	2
9	MP-6	X	-0.41	5
10	MP-7	X	-0.12	3
11	MP-8	X	-0.14	2
12	MP-6	X	-0.09	1
13	MP-6	X	-0.08	3
14	MP-8	X	-0.03	1
15	MP-9	X	-0.12	2
16	MP-10	X	-0.24	5
17	MP-11	X	-0.07	3
18	MP-12	X	-0.11	2
19	MP-10	X	-0.08	1
20	MP-10	X	-0.05	3
21	MP-12	X	-0.02	1
22	MP-1	X	-0.15	6
23	MP-2	X	-0.41	7.5
24	MP-3	X	-0.12	5
25	MP-4	X	-0.14	6
26	MP-5	X	-0.15	6
27	MP-6	X	-0.41	7.5
28	MP-7	X	-0.12	5
29	MP-8	X	-0.14	6
30	MP-9	X	-0.12	6
31	MP-10	X	-0.24	7.5
32	MP-11	X	-0.07	5
33	MP-12	X	-0.11	6
34	MP-1	Z	-0.26	2
35	MP-2	Z	-0.7	5
36	MP-3	Z	-0.21	3



Member Point Loads (BLC 22 : 60 Wind - Ice) (Continued)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
37	MP-4	Z	-0.24	2
38	MP-2	Z	-0.15	1
39	MP-2	Z	-0.15	3
40	MP-4	Z	-0.05	1
41	MP-5	Z	-0.26	2
42	MP-6	Z	-0.7	.5
43	MP-7	Z	-0.21	3
44	MP-8	Z	-0.24	2
45	MP-6	Z	-0.15	1
46	MP-6	Z	-0.15	3
47	MP-8	Z	-0.05	1
48	MP-9	Z	-0.21	2
49	MP-10	Z	-0.42	.5
50	MP-11	Z	-0.13	3
51	MP-12	Z	-0.2	2
52	MP-10	Z	-0.13	1
53	MP-10	Z	-0.09	3
54	MP-12	Z	-0.03	1
55	MP-1	Z	-0.26	6
56	MP-2	Z	-0.7	7.5
57	MP-3	Z	-0.21	5
58	MP-4	Z	-0.24	6
59	MP-5	Z	-0.26	6
60	MP-6	Z	-0.7	7.5
61	MP-7	Z	-0.21	5
62	MP-8	Z	-0.24	6
63	MP-9	Z	-0.21	6
64	MP-10	Z	-0.42	7.5
65	MP-11	Z	-0.13	5
66	MP-12	Z	-0.2	6

Member Point Loads (BLC 23 : 90 Wind - Ice)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	Z	-0.24	2
2	MP-2	Z	-0.43	.5
3	MP-3	Z	-0.13	3
4	MP-4	Z	-0.22	2
5	MP-2	Z	-0.15	1
6	MP-2	Z	-0.09	3
7	MP-4	Z	-0.03	1
8	MP-5	Z	-0.24	2
9	MP-6	Z	-0.43	.5
10	MP-7	Z	-0.13	3
11	MP-8	Z	-0.22	2
12	MP-6	Z	-0.15	1
13	MP-6	Z	-0.09	3
14	MP-8	Z	-0.03	1
15	MP-9	Z	-0.24	2
16	MP-10	Z	-0.43	.5
17	MP-11	Z	-0.13	3
18	MP-12	Z	-0.22	2
19	MP-10	Z	-0.15	1
20	MP-10	Z	-0.09	3
21	MP-12	Z	-0.03	1
22	MP-1	Z	-0.24	6
23	MP-2	Z	-0.43	7.5



Member Point Loads (BLC 23 : 90 Wind - Ice) (Continued)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
24	MP-3	Z	-0.13	5
25	MP-4	Z	-0.22	6
26	MP-5	Z	-0.24	6
27	MP-6	Z	-0.43	7.5
28	MP-7	Z	-0.13	5
29	MP-8	Z	-0.22	6
30	MP-9	Z	-0.24	6
31	MP-10	Z	-0.43	7.5
32	MP-11	Z	-0.13	5
33	MP-12	Z	-0.22	6

Member Point Loads (BLC 24 : 120 Wind - Ice)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	.014	2
2	MP-2	X	.034	.5
3	MP-3	X	.01	3
4	MP-4	X	.013	2
5	MP-2	X	.008	1
6	MP-2	X	.007	3
7	MP-4	X	.002	1
8	MP-5	X	.012	2
9	MP-6	X	.022	.5
10	MP-7	X	.007	3
11	MP-8	X	.011	2
12	MP-6	X	.008	1
13	MP-6	X	.005	3
14	MP-8	X	.002	1
15	MP-9	X	.015	2
16	MP-10	X	.042	.5
17	MP-11	X	.013	3
18	MP-12	X	.014	2
19	MP-10	X	.009	1
20	MP-10	X	.009	3
21	MP-12	X	.003	1
22	MP-1	X	.014	6
23	MP-2	X	.034	7.5
24	MP-3	X	.01	5
25	MP-4	X	.013	6
26	MP-5	X	.012	6
27	MP-6	X	.022	7.5
28	MP-7	X	.007	5
29	MP-8	X	.011	6
30	MP-9	X	.015	6
31	MP-10	X	.042	7.5
32	MP-11	X	.013	5
33	MP-12	X	.014	6
34	MP-1	Z	-0.24	2
35	MP-2	Z	-0.59	.5
36	MP-3	Z	-0.18	3
37	MP-4	Z	-0.22	2
38	MP-2	Z	-0.14	1
39	MP-2	Z	-0.12	3
40	MP-4	Z	-0.04	1
41	MP-5	Z	-0.21	2
42	MP-6	Z	-0.38	.5
43	MP-7	Z	-0.12	3



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Member Point Loads (BLC 24 : 120 Wind - Ice) (Continued)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
44	MP-8	Z	-0.19	2
45	MP-6	Z	-0.13	1
46	MP-6	Z	-0.08	3
47	MP-8	Z	-0.03	1
48	MP-9	Z	-0.26	2
49	MP-10	Z	-0.74	.5
50	MP-11	Z	-0.22	3
51	MP-12	Z	-0.25	2
52	MP-10	Z	-0.15	1
53	MP-10	Z	-0.15	3
54	MP-12	Z	-0.05	1
55	MP-1	Z	-0.24	6
56	MP-2	Z	-0.59	7.5
57	MP-3	Z	-0.18	5
58	MP-4	Z	-0.22	6
59	MP-5	Z	-0.21	6
60	MP-6	Z	-0.38	7.5
61	MP-7	Z	-0.12	5
62	MP-8	Z	-0.19	6
63	MP-9	Z	-0.26	6
64	MP-10	Z	-0.74	7.5
65	MP-11	Z	-0.22	5
66	MP-12	Z	-0.25	6

Member Point Loads (BLC 25 : 135 Wind - Ice)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	.018	2
2	MP-2	X	.041	.5
3	MP-3	X	.012	3
4	MP-4	X	.017	2
5	MP-2	X	.011	1
6	MP-2	X	.009	3
7	MP-4	X	.003	1
8	MP-5	X	.017	2
9	MP-6	X	.031	.5
10	MP-7	X	.009	3
11	MP-8	X	.015	2
12	MP-6	X	.011	1
13	MP-6	X	.007	3
14	MP-8	X	.002	1
15	MP-9	X	.022	2
16	MP-10	X	.061	.5
17	MP-11	X	.019	3
18	MP-12	X	.02	2
19	MP-10	X	.013	1
20	MP-10	X	.013	3
21	MP-12	X	.004	1
22	MP-1	X	.018	6
23	MP-2	X	.041	7.5
24	MP-3	X	.012	5
25	MP-4	X	.017	6
26	MP-5	X	.017	6
27	MP-6	X	.031	7.5
28	MP-7	X	.009	5
29	MP-8	X	.015	6
30	MP-9	X	.022	6



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Member Point Loads (BLC 25 : 135 Wind - Ice) (Continued)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
31	MP-10	X	.061	7.5
32	MP-11	X	.019	5
33	MP-12	X	.02	6
34	MP-1	Z	-0.18	2
35	MP-2	Z	-0.41	.5
36	MP-3	Z	-0.12	3
37	MP-4	Z	-0.17	2
38	MP-2	Z	-0.11	1
39	MP-2	Z	-0.09	3
40	MP-4	Z	-0.03	1
41	MP-5	Z	-0.17	2
42	MP-6	Z	-0.31	.5
43	MP-7	Z	-0.09	3
44	MP-8	Z	-0.15	2
45	MP-6	Z	-0.11	1
46	MP-6	Z	-0.07	3
47	MP-8	Z	-0.02	1
48	MP-9	Z	-0.22	2
49	MP-10	Z	-0.61	.5
50	MP-11	Z	-0.19	3
51	MP-12	Z	-0.2	2
52	MP-10	Z	-0.13	1
53	MP-10	Z	-0.13	3
54	MP-12	Z	-0.04	1
55	MP-1	Z	-0.18	6
56	MP-2	Z	-0.41	7.5
57	MP-3	Z	-0.12	5
58	MP-4	Z	-0.17	6
59	MP-5	Z	-0.17	6
60	MP-6	Z	-0.31	7.5
61	MP-7	Z	-0.09	5
62	MP-8	Z	-0.15	6
63	MP-9	Z	-0.22	6
64	MP-10	Z	-0.61	7.5
65	MP-11	Z	-0.19	5
66	MP-12	Z	-0.2	6

Member Point Loads (BLC 26 : 150 Wind - Ice)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	.021	2
2	MP-2	X	.042	.5
3	MP-3	X	.013	3
4	MP-4	X	.02	2
5	MP-2	X	.013	1
6	MP-2	X	.009	3
7	MP-4	X	.003	1
8	MP-5	X	.021	2
9	MP-6	X	.042	.5
10	MP-7	X	.013	3
11	MP-8	X	.02	2
12	MP-6	X	.013	1
13	MP-6	X	.009	3
14	MP-8	X	.003	1
15	MP-9	X	.026	2
16	MP-10	X	.07	.5
17	MP-11	X	.021	3



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Member Point Loads (BLC 26 : 150 Wind - Ice) (Continued)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
18	MP-12	X	.024	2
19	MP-10	X	.015	1
20	MP-10	X	.015	3
21	MP-12	X	.005	1
22	MP-1	X	.021	6
23	MP-2	X	.042	7.5
24	MP-3	X	.013	5
25	MP-4	X	.02	6
26	MP-5	X	.021	6
27	MP-6	X	.042	7.5
28	MP-7	X	.013	5
29	MP-8	X	.02	6
30	MP-9	X	.026	6
31	MP-10	X	.07	7.5
32	MP-11	X	.021	5
33	MP-12	X	.024	6
34	MP-1	Z	-.012	2
35	MP-2	Z	-.024	.5
36	MP-3	Z	-.007	3
37	MP-4	Z	-.011	2
38	MP-2	Z	-.008	1
39	MP-2	Z	-.005	3
40	MP-4	Z	-.002	1
41	MP-5	Z	-.012	2
42	MP-6	Z	-.024	.5
43	MP-7	Z	-.007	3
44	MP-8	Z	-.011	2
45	MP-6	Z	-.008	1
46	MP-6	Z	-.005	3
47	MP-8	Z	-.002	1
48	MP-9	Z	-.015	2
49	MP-10	Z	-.041	.5
50	MP-11	Z	-.012	3
51	MP-12	Z	-.014	2
52	MP-10	Z	-.009	1
53	MP-10	Z	-.008	3
54	MP-12	Z	-.003	1
55	MP-1	Z	-.012	6
56	MP-2	Z	-.024	7.5
57	MP-3	Z	-.007	5
58	MP-4	Z	-.011	6
59	MP-5	Z	-.012	6
60	MP-6	Z	-.024	7.5
61	MP-7	Z	-.007	5
62	MP-8	Z	-.011	6
63	MP-9	Z	-.015	6
64	MP-10	Z	-.041	7.5
65	MP-11	Z	-.012	5
66	MP-12	Z	-.014	6

Member Point Loads (BLC 27 : 180 Wind - Ice)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	.031	2
2	MP-2	X	.086	.5
3	MP-3	X	.026	3
4	MP-4	X	.029	2



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Member Point Loads (BLC 27 : 180 Wind - Ice) (Continued)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
5	MP-2	X	.018	1
6	MP-2	X	.018	3
7	MP-4	X	.006	1
8	MP-5	X	.031	2
9	MP-6	X	.086	.5
10	MP-7	X	.026	3
11	MP-8	X	.029	2
12	MP-6	X	.018	1
13	MP-6	X	.018	3
14	MP-8	X	.006	1
15	MP-9	X	.031	2
16	MP-10	X	.086	.5
17	MP-11	X	.026	3
18	MP-12	X	.029	2
19	MP-10	X	.018	1
20	MP-10	X	.018	3
21	MP-12	X	.006	1
22	MP-1	X	.031	6
23	MP-2	X	.086	7.5
24	MP-3	X	.026	5
25	MP-4	X	.029	6
26	MP-5	X	.031	6
27	MP-6	X	.086	7.5
28	MP-7	X	.026	5
29	MP-8	X	.029	6
30	MP-9	X	.031	6
31	MP-10	X	.086	7.5
32	MP-11	X	.026	5
33	MP-12	X	.029	6

Member Point Loads (BLC 28 : 210 Wind - Ice)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	.023	2
2	MP-2	X	.053	.5
3	MP-3	X	.016	3
4	MP-4	X	.021	2
5	MP-2	X	.014	1
6	MP-2	X	.011	3
7	MP-4	X	.004	1
8	MP-5	X	.026	2
9	MP-6	X	.074	.5
10	MP-7	X	.022	3
11	MP-8	X	.025	2
12	MP-6	X	.015	1
13	MP-6	X	.015	3
14	MP-8	X	.005	1
15	MP-9	X	.021	2
16	MP-10	X	.038	.5
17	MP-11	X	.012	3
18	MP-12	X	.019	2
19	MP-10	X	.013	1
20	MP-10	X	.008	3
21	MP-12	X	.003	1
22	MP-1	X	.023	6
23	MP-2	X	.053	7.5
24	MP-3	X	.016	5



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Member Point Loads (BLC 28 : 210 Wind - Ice) (Continued)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
25	MP-4	X	.021	6
26	MP-5	X	.026	6
27	MP-6	X	.074	7.5
28	MP-7	X	.022	5
29	MP-8	X	.025	6
30	MP-9	X	.021	6
31	MP-10	X	.038	7.5
32	MP-11	X	.012	5
33	MP-12	X	.019	6
34	MP-1	Z	.013	2
35	MP-2	Z	.03	.5
36	MP-3	Z	.009	3
37	MP-4	Z	.012	2
38	MP-2	Z	.008	1
39	MP-2	Z	.006	3
40	MP-4	Z	.002	1
41	MP-5	Z	.015	2
42	MP-6	Z	.042	.5
43	MP-7	Z	.013	3
44	MP-8	Z	.014	2
45	MP-6	Z	.009	1
46	MP-6	Z	.009	3
47	MP-8	Z	.003	1
48	MP-9	Z	.012	2
49	MP-10	Z	.022	.5
50	MP-11	Z	.007	3
51	MP-12	Z	.011	2
52	MP-10	Z	.008	1
53	MP-10	Z	.005	3
54	MP-12	Z	.002	1
55	MP-1	Z	.013	6
56	MP-2	Z	.03	7.5
57	MP-3	Z	.009	5
58	MP-4	Z	.012	6
59	MP-5	Z	.015	6
60	MP-6	Z	.042	7.5
61	MP-7	Z	.013	5
62	MP-8	Z	.014	6
63	MP-9	Z	.012	6
64	MP-10	Z	.022	7.5
65	MP-11	Z	.007	5
66	MP-12	Z	.011	6

Member Point Loads (BLC 29 : 225 Wind - Ice)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	.02	2
2	MP-2	X	.051	.5
3	MP-3	X	.016	3
4	MP-4	X	.019	2
5	MP-2	X	.012	1
6	MP-2	X	.011	3
7	MP-4	X	.003	1
8	MP-5	X	.022	2
9	MP-6	X	.061	.5
10	MP-7	X	.019	3
11	MP-8	X	.02	2



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Member Point Loads (BLC 29 : 225 Wind - Ice) (Continued)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
12	MP-6	X	.013	1
13	MP-6	X	.013	3
14	MP-8	X	.004	1
15	MP-9	X	.017	2
16	MP-10	X	.031	.5
17	MP-11	X	.009	3
18	MP-12	X	.015	2
19	MP-10	X	.011	1
20	MP-10	X	.007	3
21	MP-12	X	.002	1
22	MP-1	X	.02	6
23	MP-2	X	.051	7.5
24	MP-3	X	.016	5
25	MP-4	X	.019	6
26	MP-5	X	.022	6
27	MP-6	X	.061	7.5
28	MP-7	X	.019	5
29	MP-8	X	.02	6
30	MP-9	X	.017	6
31	MP-10	X	.031	7.5
32	MP-11	X	.009	5
33	MP-12	X	.015	6
34	MP-1	Z	.02	2
35	MP-2	Z	.051	.5
36	MP-3	Z	.016	3
37	MP-4	Z	.019	2
38	MP-2	Z	.012	1
39	MP-2	Z	.011	3
40	MP-4	Z	.003	1
41	MP-5	Z	.022	2
42	MP-6	Z	.061	.5
43	MP-7	Z	.019	3
44	MP-8	Z	.02	2
45	MP-6	Z	.013	1
46	MP-6	Z	.013	3
47	MP-8	Z	.004	1
48	MP-9	Z	.017	2
49	MP-10	Z	.031	.5
50	MP-11	Z	.009	3
51	MP-12	Z	.015	2
52	MP-10	Z	.011	1
53	MP-10	Z	.007	3
54	MP-12	Z	.002	1
55	MP-1	Z	.02	6
56	MP-2	Z	.051	7.5
57	MP-3	Z	.016	5
58	MP-4	Z	.019	6
59	MP-5	Z	.022	6
60	MP-6	Z	.061	7.5
61	MP-7	Z	.019	5
62	MP-8	Z	.02	6
63	MP-9	Z	.017	6
64	MP-10	Z	.031	7.5
65	MP-11	Z	.009	5
66	MP-12	Z	.015	6



Member Point Loads (BLC 30 : 240 Wind - Ice)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	.015	2
2	MP-2	X	.041	.5
3	MP-3	X	.012	3
4	MP-4	X	.014	2
5	MP-2	X	.009	1
6	MP-2	X	.008	3
7	MP-4	X	.003	1
8	MP-5	X	.015	2
9	MP-6	X	.041	.5
10	MP-7	X	.012	3
11	MP-8	X	.014	2
12	MP-6	X	.009	1
13	MP-6	X	.008	3
14	MP-8	X	.003	1
15	MP-9	X	.012	2
16	MP-10	X	.024	.5
17	MP-11	X	.007	3
18	MP-12	X	.011	2
19	MP-10	X	.008	1
20	MP-10	X	.005	3
21	MP-12	X	.002	1
22	MP-1	X	.015	6
23	MP-2	X	.041	7.5
24	MP-3	X	.012	5
25	MP-4	X	.014	6
26	MP-5	X	.015	6
27	MP-6	X	.041	7.5
28	MP-7	X	.012	5
29	MP-8	X	.014	6
30	MP-9	X	.012	6
31	MP-10	X	.024	7.5
32	MP-11	X	.007	5
33	MP-12	X	.011	6
34	MP-1	Z	.026	2
35	MP-2	Z	.07	.5
36	MP-3	Z	.021	3
37	MP-4	Z	.024	2
38	MP-2	Z	.015	1
39	MP-2	Z	.015	3
40	MP-4	Z	.005	1
41	MP-5	Z	.026	2
42	MP-6	Z	.07	.5
43	MP-7	Z	.021	3
44	MP-8	Z	.024	2
45	MP-6	Z	.015	1
46	MP-6	Z	.015	3
47	MP-8	Z	.005	1
48	MP-9	Z	.021	2
49	MP-10	Z	.042	.5
50	MP-11	Z	.013	3
51	MP-12	Z	.02	2
52	MP-10	Z	.013	1
53	MP-10	Z	.009	3
54	MP-12	Z	.003	1
55	MP-1	Z	.026	6
56	MP-2	Z	.07	7.5
57	MP-3	Z	.021	5



Member Point Loads (BLC 30 : 240 Wind - Ice) (Continued)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
58	MP-4	Z	.024	6
59	MP-5	Z	.026	6
60	MP-6	Z	.07	7.5
61	MP-7	Z	.021	5
62	MP-8	Z	.024	6
63	MP-9	Z	.021	6
64	MP-10	Z	.042	7.5
65	MP-11	Z	.013	5
66	MP-12	Z	.02	6

Member Point Loads (BLC 31 : 270 Wind - Ice)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	Z	.024	2
2	MP-2	Z	.043	.5
3	MP-3	Z	.013	3
4	MP-4	Z	.022	2
5	MP-2	Z	.015	1
6	MP-2	Z	.009	3
7	MP-4	Z	.003	1
8	MP-5	Z	.024	2
9	MP-6	Z	.043	.5
10	MP-7	Z	.013	3
11	MP-8	Z	.022	2
12	MP-6	Z	.015	1
13	MP-6	Z	.009	3
14	MP-8	Z	.003	1
15	MP-9	Z	.024	2
16	MP-10	Z	.043	.5
17	MP-11	Z	.013	3
18	MP-12	Z	.022	2
19	MP-10	Z	.015	1
20	MP-10	Z	.009	3
21	MP-12	Z	.003	1
22	MP-1	Z	.024	6
23	MP-2	Z	.043	7.5
24	MP-3	Z	.013	5
25	MP-4	Z	.022	6
26	MP-5	Z	.024	6
27	MP-6	Z	.043	7.5
28	MP-7	Z	.013	5
29	MP-8	Z	.022	6
30	MP-9	Z	.024	6
31	MP-10	Z	.043	7.5
32	MP-11	Z	.013	5
33	MP-12	Z	.022	6

Member Point Loads (BLC 32 : 300 Wind - Ice)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	-.014	2
2	MP-2	X	-.034	.5
3	MP-3	X	-.01	3
4	MP-4	X	-.013	2
5	MP-2	X	-.008	1
6	MP-2	X	-.007	3
7	MP-4	X	-.002	1
8	MP-5	X	-.012	2



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Member Point Loads (BLC 32 : 300 Wind - Ice) (Continued)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
9	MP-6	X	-.022	.5
10	MP-7	X	-.007	3
11	MP-8	X	-.011	2
12	MP-6	X	-.008	1
13	MP-6	X	-.005	3
14	MP-8	X	-.002	1
15	MP-9	X	-.015	2
16	MP-10	X	-.042	.5
17	MP-11	X	-.013	3
18	MP-12	X	-.014	2
19	MP-10	X	-.009	1
20	MP-10	X	-.009	3
21	MP-12	X	-.003	1
22	MP-1	X	-.014	6
23	MP-2	X	-.034	7.5
24	MP-3	X	-.01	5
25	MP-4	X	-.013	6
26	MP-5	X	-.012	6
27	MP-6	X	-.022	7.5
28	MP-7	X	-.007	5
29	MP-8	X	-.011	6
30	MP-9	X	-.015	6
31	MP-10	X	-.042	7.5
32	MP-11	X	-.013	5
33	MP-12	X	-.014	6
34	MP-1	Z	.024	2
35	MP-2	Z	.059	.5
36	MP-3	Z	.018	3
37	MP-4	Z	.022	2
38	MP-2	Z	.014	1
39	MP-2	Z	.012	3
40	MP-4	Z	.004	1
41	MP-5	Z	.021	2
42	MP-6	Z	.038	.5
43	MP-7	Z	.012	3
44	MP-8	Z	.019	2
45	MP-6	Z	.013	1
46	MP-6	Z	.008	3
47	MP-8	Z	.003	1
48	MP-9	Z	.026	2
49	MP-10	Z	.074	.5
50	MP-11	Z	.022	3
51	MP-12	Z	.025	2
52	MP-10	Z	.015	1
53	MP-10	Z	.015	3
54	MP-12	Z	.005	1
55	MP-1	Z	.024	6
56	MP-2	Z	.059	7.5
57	MP-3	Z	.018	5
58	MP-4	Z	.022	6
59	MP-5	Z	.021	6
60	MP-6	Z	.038	7.5
61	MP-7	Z	.012	5
62	MP-8	Z	.019	6
63	MP-9	Z	.026	6
64	MP-10	Z	.074	7.5
65	MP-11	Z	.022	5



Company : Tower Engineering Professionals, Inc.
 Designer : MSD
 Job Number : TEP No. 83631.424428
 Model Name : 302538 - Parsonage Hill Aka Wallin

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Member Point Loads (BLC 32 : 300 Wind - Ice) (Continued)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
66	MP-12	Z	.025	6

Member Point Loads (BLC 33 : 315 Wind - Ice)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	-.018	2
2	MP-2	X	-.041	.5
3	MP-3	X	-.012	3
4	MP-4	X	-.017	2
5	MP-2	X	-.011	1
6	MP-2	X	-.009	3
7	MP-4	X	-.003	1
8	MP-5	X	-.017	2
9	MP-6	X	-.031	.5
10	MP-7	X	-.009	3
11	MP-8	X	-.015	2
12	MP-6	X	-.011	1
13	MP-6	X	-.007	3
14	MP-8	X	-.002	1
15	MP-9	X	-.022	2
16	MP-10	X	-.061	.5
17	MP-11	X	-.019	3
18	MP-12	X	-.02	2
19	MP-10	X	-.013	1
20	MP-10	X	-.013	3
21	MP-12	X	-.004	1
22	MP-1	X	-.018	6
23	MP-2	X	-.041	7.5
24	MP-3	X	-.012	5
25	MP-4	X	-.017	6
26	MP-5	X	-.017	6
27	MP-6	X	-.031	7.5
28	MP-7	X	-.009	5
29	MP-8	X	-.015	6
30	MP-9	X	-.022	6
31	MP-10	X	-.061	7.5
32	MP-11	X	-.019	5
33	MP-12	X	-.02	6
34	MP-1	Z	-.018	2
35	MP-2	Z	.041	.5
36	MP-3	Z	.012	3
37	MP-4	Z	.017	2
38	MP-2	Z	.011	1
39	MP-2	Z	.009	3
40	MP-4	Z	.003	1
41	MP-5	Z	.017	2
42	MP-6	Z	.031	.5
43	MP-7	Z	.009	3
44	MP-8	Z	.015	2
45	MP-6	Z	.011	1
46	MP-6	Z	.007	3
47	MP-8	Z	.002	1
48	MP-9	Z	.022	2
49	MP-10	Z	.061	.5
50	MP-11	Z	.019	3
51	MP-12	Z	.02	2
52	MP-10	Z	.013	1



Member Point Loads (BLC 33 : 315 Wind - Ice) (Continued)

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]	
53	MP-10	Z	.013	3
54	MP-12	Z	.004	1
55	MP-1	Z	.018	6
56	MP-2	Z	.041	7.5
57	MP-3	Z	.012	5
58	MP-4	Z	.017	6
59	MP-5	Z	.017	6
60	MP-6	Z	.031	7.5
61	MP-7	Z	.009	5
62	MP-8	Z	.015	6
63	MP-9	Z	.022	6
64	MP-10	Z	.061	7.5
65	MP-11	Z	.019	5
66	MP-12	Z	.02	6

Member Point Loads (BLC 34 : 330 Wind - Ice)

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]	
1	MP-1	X	-.021	2
2	MP-2	X	-.042	.5
3	MP-3	X	-.013	3
4	MP-4	X	-.02	2
5	MP-2	X	-.013	1
6	MP-2	X	-.009	3
7	MP-4	X	-.003	1
8	MP-5	X	-.021	2
9	MP-6	X	-.042	.5
10	MP-7	X	-.013	3
11	MP-8	X	-.02	2
12	MP-6	X	-.013	1
13	MP-6	X	-.009	3
14	MP-8	X	-.003	1
15	MP-9	X	-.026	2
16	MP-10	X	-.07	.5
17	MP-11	X	-.021	3
18	MP-12	X	-.024	2
19	MP-10	X	-.015	1
20	MP-10	X	-.015	3
21	MP-12	X	-.005	1
22	MP-1	X	-.021	6
23	MP-2	X	-.042	7.5
24	MP-3	X	-.013	5
25	MP-4	X	-.02	6
26	MP-5	X	-.021	6
27	MP-6	X	-.042	7.5
28	MP-7	X	-.013	5
29	MP-8	X	-.02	6
30	MP-9	X	-.026	6
31	MP-10	X	-.07	7.5
32	MP-11	X	-.021	5
33	MP-12	X	-.024	6
34	MP-1	Z	.012	2
35	MP-2	Z	.024	.5
36	MP-3	Z	.007	3
37	MP-4	Z	.011	2
38	MP-2	Z	.008	1
39	MP-2	Z	.005	3



Member Point Loads (BLC 34 : 330 Wind - Ice) (Continued)

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]	
40	MP-4	Z	.002	1
41	MP-5	Z	.012	2
42	MP-6	Z	.024	.5
43	MP-7	Z	.007	3
44	MP-8	Z	.011	2
45	MP-6	Z	.008	1
46	MP-6	Z	.005	3
47	MP-8	Z	.002	1
48	MP-9	Z	.015	2
49	MP-10	Z	.041	.5
50	MP-11	Z	.012	3
51	MP-12	Z	.014	2
52	MP-10	Z	.009	1
53	MP-10	Z	.008	3
54	MP-12	Z	.003	1
55	MP-1	Z	.012	6
56	MP-2	Z	.024	7.5
57	MP-3	Z	.007	5
58	MP-4	Z	.011	6
59	MP-5	Z	.012	6
60	MP-6	Z	.024	7.5
61	MP-7	Z	.007	5
62	MP-8	Z	.011	6
63	MP-9	Z	.015	6
64	MP-10	Z	.041	7.5
65	MP-11	Z	.012	5
66	MP-12	Z	.014	6

Member Point Loads (BLC 37 : Seismic Load X)

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]	
1	MP-1	X	-.066	2
2	MP-2	X	-.064	.5
3	MP-3	X	-.052	3
4	MP-4	X	-.046	2
5	MP-2	X	-.075	1
6	MP-2	X	-.046	3
7	MP-4	X	-.011	1
8	MP-5	X	-.066	2
9	MP-6	X	-.064	.5
10	MP-7	X	-.052	3
11	MP-8	X	-.046	2
12	MP-6	X	-.075	1
13	MP-6	X	-.046	3
14	MP-8	X	-.011	1
15	MP-9	X	-.066	2
16	MP-10	X	-.064	.5
17	MP-11	X	-.052	3
18	MP-12	X	-.046	2
19	MP-10	X	-.075	1
20	MP-10	X	-.046	3
21	MP-12	X	-.011	1
22	MP-1	X	-.066	6
23	MP-2	X	-.064	7.5
24	MP-3	X	-.052	5
25	MP-4	X	-.046	6
26	MP-5	X	-.066	6



Company : Tower Engineering Professionals, Inc.
 Designer : MSD
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Member Point Loads (BLC 37 : Seismic Load X) (Continued)

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]	
27	MP-6	X	-0.64	7.5
28	MP-7	X	-0.52	5
29	MP-8	X	-0.46	6
30	MP-9	X	-0.66	6
31	MP-10	X	-0.64	7.5
32	MP-11	X	-0.52	5
33	MP-12	X	-0.46	6

Member Point Loads (BLC 38 : Seismic Load Z)

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]	
1	MP-1	Z	-0.66	2
2	MP-2	Z	-0.64	.5
3	MP-3	Z	-0.52	3
4	MP-4	Z	-0.46	2
5	MP-2	Z	-0.75	1
6	MP-2	Z	-0.46	3
7	MP-4	Z	-0.11	1
8	MP-5	Z	-0.66	2
9	MP-6	Z	-0.64	.5
10	MP-7	Z	-0.52	3
11	MP-8	Z	-0.46	2
12	MP-6	Z	-0.75	1
13	MP-6	Z	-0.46	3
14	MP-8	Z	-0.11	1
15	MP-9	Z	-0.66	2
16	MP-10	Z	-0.64	.5
17	MP-11	Z	-0.52	3
18	MP-12	Z	-0.46	2
19	MP-10	Z	-0.75	1
20	MP-10	Z	-0.46	3
21	MP-12	Z	-0.11	1
22	MP-1	Z	-0.66	6
23	MP-2	Z	-0.64	7.5
24	MP-3	Z	-0.52	5
25	MP-4	Z	-0.46	6
26	MP-5	Z	-0.66	6
27	MP-6	Z	-0.64	7.5
28	MP-7	Z	-0.52	5
29	MP-8	Z	-0.46	6
30	MP-9	Z	-0.66	6
31	MP-10	Z	-0.64	7.5
32	MP-11	Z	-0.52	5
33	MP-12	Z	-0.46	6

Member Distributed Loads (BLC 2 : 0 Wind - No Ice)

Member Label	Direction	Start Magnitude[k/ft.]	End Magnitude[k/ft.]	Start Location[ft.%]	End Location[ft.%]	
1	CP-1	X	-0.13	-0.13	0	%100
2	CP-2	X	-0.27	-0.27	0	%100
3	CP-3	X	-0.13	-0.13	0	%100
4	FF-HR	X	-0.1	-0.1	0	%100
5	FF-TH	X	-0.12	-0.12	0	%100
6	GSI-1A	X	-0.09	-0.09	0	%100
7	GSI-1B	X	-0.09	-0.09	0	%100
8	GSI-2A	X	-0.21	-0.21	0	%100
9	GSI-2B	X	-0.21	-0.21	0	%100



Company : Tower Engineering Professionals, Inc.
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Member Distributed Loads (BLC 2 : 0 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft.]	End Magnitude[k/ft.]	Start Location[ft.%]	End Location[ft.%]	
10	GSI-3A	X	-0.09	-0.09	0	%100
11	GSI-3B	X	-0.09	-0.09	0	%100
12	GSIP-1A	X	-0.15	-0.15	0	%100
13	GSIP-1B	X	-0.06	-0.06	0	%100
14	GSIP-2A	X	-0.06	-0.06	0	%100
15	GSIP-2B	X	-0.06	-0.06	0	%100
16	GSIP-3A	X	-0.06	-0.06	0	%100
17	GSIP-3B	X	-0.15	-0.15	0	%100
18	HRC-1	X	-0.06	-0.06	0	%100
19	HRC-2	X	-0.12	-0.12	0	%100
20	HRC-3	X	-0.06	-0.06	0	%100
21	K-1	X	-0.17	-0.17	0	%100
22	K-2	X	-0.17	-0.17	0	%100
23	K-3	X	-0.17	-0.17	0	%100
24	MP-1	X	-0.1	-0.1	0	%100
25	MP-2	X	-0.1	-0.1	0	%100
26	MP-3	X	-0.1	-0.1	0	%100
27	MP-4	X	-0.1	-0.1	0	%100
28	MP-5	X	-0.1	-0.1	0	%100
29	MP-6	X	-0.1	-0.1	0	%100
30	MP-7	X	-0.1	-0.1	0	%100
31	MP-8	X	-0.1	-0.1	0	%100
32	MP-9	X	-0.1	-0.1	0	%100
33	MP-10	X	-0.1	-0.1	0	%100
34	MP-11	X	-0.1	-0.1	0	%100
35	MP-12	X	-0.1	-0.1	0	%100
36	SA-1	X	-0.21	-0.21	0	%100
37	SA-2	X	0	0	0	%100
38	SA-3	X	-0.21	-0.21	0	%100
39	SF1-HR	X	-0.05	-0.05	0	%100
40	SF1-TH	X	-0.05	-0.05	0	%100
41	SF2-HR	X	-0.05	-0.05	0	%100
42	SF2-TH	X	-0.05	-0.05	0	%100

Member Distributed Loads (BLC 3 : 30 Wind - No Ice)

Member Label	Direction	Start Magnitude[k/ft.]	End Magnitude[k/ft.]	Start Location[ft.%]	End Location[ft.%]	
1	CP-1	X	-0.2	-0.2	0	%100
2	CP-2	X	-0.2	-0.2	0	%100
3	CP-3	X	0	0	0	%100
4	FF-HR	X	-0.08	-0.08	0	%100
5	FF-TH	X	-0.09	-0.09	0	%100
6	GSI-1A	X	-0.14	-0.14	0	%100
7	GSI-1B	X	-0.14	-0.14	0	%100
8	GSI-2A	X	-0.16	-0.16	0	%100
9	GSI-2B	X	-0.16	-0.16	0	%100
10	GSI-3A	X	0	0	0	%100
11	GSI-3B	X	0	0	0	%100
12	GSIP-1A	X	-0.11	-0.11	0	%100
13	GSIP-1B	X	-1e-6	-1e-6	0	%100
14	GSIP-2A	X	0	0	0	%100
15	GSIP-2B	X	-0.09	-0.09	0	%100
16	GSIP-3A	X	-0.09	-0.09	0	%100
17	GSIP-3B	X	-0.11	-0.11	0	%100
18	HRC-1	X	-0.08	-0.08	0	%100
19	HRC-2	X	-0.09	-0.09	0	%100
20	HRC-3	X	0	0	0	%100



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Member Distributed Loads (BLC 3 : 30 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
21	K-1	X	-0.15	-0.15	0	%100
22	K-2	X	-0.15	-0.15	0	%100
23	K-3	X	-0.15	-0.15	0	%100
24	MP-1	X	-0.09	-0.09	0	%100
25	MP-2	X	-0.09	-0.09	0	%100
26	MP-3	X	-0.09	-0.09	0	%100
27	MP-4	X	-0.09	-0.09	0	%100
28	MP-5	X	-0.09	-0.09	0	%100
29	MP-6	X	-0.09	-0.09	0	%100
30	MP-7	X	-0.09	-0.09	0	%100
31	MP-8	X	-0.09	-0.09	0	%100
32	MP-9	X	-0.09	-0.09	0	%100
33	MP-10	X	-0.09	-0.09	0	%100
34	MP-11	X	-0.09	-0.09	0	%100
35	MP-12	X	-0.09	-0.09	0	%100
36	SA-1	X	-0.01	-0.01	0	%100
37	SA-2	X	-0.008	-0.008	0	%100
38	SA-3	X	-0.021	-0.021	0	%100
39	SF1-HR	X	0	0	0	%100
40	SF1-TH	X	0	0	0	%100
41	SF2-HR	X	-0.008	-0.008	0	%100
42	SF2-TH	X	-0.008	-0.008	0	%100
43	CP-1	Z	-0.11	-0.11	0	%100
44	CP-2	Z	-0.11	-0.11	0	%100
45	CP-3	Z	0	0	0	%100
46	FF-HR	Z	-0.005	-0.005	0	%100
47	FF-TH	Z	-0.005	-0.005	0	%100
48	GSI-1A	Z	-0.009	-0.009	0	%100
49	GSI-1B	Z	-0.009	-0.009	0	%100
50	GSI-2A	Z	-0.009	-0.009	0	%100
51	GSI-2B	Z	-0.009	-0.009	0	%100
52	GSI-3A	Z	0	0	0	%100
53	GSI-3B	Z	0	0	0	%100
54	GSIP-1A	Z	-0.006	-0.006	0	%100
55	GSIP-1B	Z	0	0	0	%100
56	GSIP-2A	Z	0	0	0	%100
57	GSIP-2B	Z	-0.006	-0.006	0	%100
58	GSIP-3A	Z	-0.006	-0.006	0	%100
59	GSIP-3B	Z	-0.006	-0.006	0	%100
60	HRC-1	Z	-0.005	-0.005	0	%100
61	HRC-2	Z	-0.005	-0.005	0	%100
62	HRC-3	Z	0	0	0	%100
63	K-1	Z	-0.009	-0.009	0	%100
64	K-2	Z	-0.009	-0.009	0	%100
65	K-3	Z	-0.009	-0.009	0	%100
66	MP-1	Z	-0.005	-0.005	0	%100
67	MP-2	Z	-0.005	-0.005	0	%100
68	MP-3	Z	-0.005	-0.005	0	%100
69	MP-4	Z	-0.005	-0.005	0	%100
70	MP-5	Z	-0.005	-0.005	0	%100
71	MP-6	Z	-0.005	-0.005	0	%100
72	MP-7	Z	-0.005	-0.005	0	%100
73	MP-8	Z	-0.005	-0.005	0	%100
74	MP-9	Z	-0.005	-0.005	0	%100
75	MP-10	Z	-0.005	-0.005	0	%100
76	MP-11	Z	-0.005	-0.005	0	%100
77	MP-12	Z	-0.005	-0.005	0	%100



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Member Distributed Loads (BLC 4 : 30 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
78	SA-1	Z	-0.005	-0.005	0	%100
79	SA-2	Z	-0.006	-0.006	0	%100
80	SA-3	Z	-0.011	-0.011	0	%100
81	SF1-HR	Z	0	0	0	%100
82	SF1-TH	Z	0	0	0	%100
83	SF2-HR	Z	-0.005	-0.005	0	%100
84	SF2-TH	Z	-0.005	-0.005	0	%100

Member Distributed Loads (BLC 4 : 45 Wind - No Ice)

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	CP-1	X	-0.18	-0.18	0	%100
2	CP-2	X	-0.13	-0.13	0	%100
3	CP-3	X	-0.005	-0.005	0	%100
4	FF-HR	X	-0.005	-0.005	0	%100
5	FF-TH	X	-0.006	-0.006	0	%100
6	GSI-1A	X	-0.013	-0.013	0	%100
7	GSI-1B	X	-0.013	-0.013	0	%100
8	GSI-2A	X	-0.01	-0.01	0	%100
9	GSI-2B	X	-0.01	-0.01	0	%100
10	GSI-3A	X	-0.003	-0.003	0	%100
11	GSI-3B	X	-0.003	-0.003	0	%100
12	GSIP-1A	X	-0.007	-0.007	0	%100
13	GSIP-1B	X	-0.002	-0.002	0	%100
14	GSIP-2A	X	-0.002	-0.002	0	%100
15	GSIP-2B	X	-0.008	-0.008	0	%100
16	GSIP-3A	X	-0.008	-0.008	0	%100
17	GSIP-3B	X	-0.007	-0.007	0	%100
18	HRC-1	X	-0.008	-0.008	0	%100
19	HRC-2	X	-0.006	-0.006	0	%100
20	HRC-3	X	-0.002	-0.002	0	%100
21	K-1	X	-0.012	-0.012	0	%100
22	K-2	X	-0.012	-0.012	0	%100
23	K-3	X	-0.012	-0.012	0	%100
24	MP-1	X	-0.007	-0.007	0	%100
25	MP-2	X	-0.007	-0.007	0	%100
26	MP-3	X	-0.007	-0.007	0	%100
27	MP-4	X	-0.007	-0.007	0	%100
28	MP-5	X	-0.007	-0.007	0	%100
29	MP-6	X	-0.007	-0.007	0	%100
30	MP-7	X	-0.007	-0.007	0	%100
31	MP-8	X	-0.007	-0.007	0	%100
32	MP-9	X	-0.007	-0.007	0	%100
33	MP-10	X	-0.007	-0.007	0	%100
34	MP-11	X	-0.007	-0.007	0	%100
35	MP-12	X	-0.007	-0.007	0	%100
36	SA-1	X	-0.004	-0.004	0	%100
37	SA-2	X	-0.009	-0.009	0	%100
38	SA-3	X	-0.016	-0.016	0	%100
39	SF1-HR	X	-0.002	-0.002	0	%100
40	SF1-TH	X	-0.002	-0.002	0	%100
41	SF2-HR	X	-0.007	-0.007	0	%100
42	SF2-TH	X	-0.007	-0.007	0	%100
43	CP-1	Z	-0.18	-0.18	0	%100
44	CP-2	Z	-0.13	-0.13	0	%100
45	CP-3	Z	-0.005	-0.005	0	%100
46	FF-HR	Z	-0.005	-0.005	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : MSD
 Job Number : TEP No. 83631.424428
 Model Name : 302538 - Parsonage Hill Aka Wallin

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Member Distributed Loads (BLC 4 : 45 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
47	FF-TH	Z	-0.06	-0.06	0	%100
48	GSI-1A	Z	-0.14	-0.14	0	%100
49	GSI-1B	Z	-0.14	-0.14	0	%100
50	GSI-2A	Z	-0.1	-0.1	0	%100
51	GSI-2B	Z	-0.1	-0.1	0	%100
52	GSI-3A	Z	-0.04	-0.04	0	%100
53	GSI-3B	Z	-0.04	-0.04	0	%100
54	GSIP-1A	Z	-0.07	-0.07	0	%100
55	GSIP-1B	Z	-0.03	-0.03	0	%100
56	GSIP-2A	Z	-0.03	-0.03	0	%100
57	GSIP-2B	Z	-0.09	-0.09	0	%100
58	GSIP-3A	Z	-0.09	-0.09	0	%100
59	GSIP-3B	Z	-0.07	-0.07	0	%100
60	HRC-1	Z	-0.08	-0.08	0	%100
61	HRC-2	Z	-0.06	-0.06	0	%100
62	HRC-3	Z	-0.02	-0.02	0	%100
63	K-1	Z	-0.12	-0.12	0	%100
64	K-2	Z	-0.12	-0.12	0	%100
65	K-3	Z	-0.12	-0.12	0	%100
66	MP-1	Z	-0.07	-0.07	0	%100
67	MP-2	Z	-0.07	-0.07	0	%100
68	MP-3	Z	-0.07	-0.07	0	%100
69	MP-4	Z	-0.07	-0.07	0	%100
70	MP-5	Z	-0.07	-0.07	0	%100
71	MP-6	Z	-0.07	-0.07	0	%100
72	MP-7	Z	-0.07	-0.07	0	%100
73	MP-8	Z	-0.07	-0.07	0	%100
74	MP-9	Z	-0.07	-0.07	0	%100
75	MP-10	Z	-0.07	-0.07	0	%100
76	MP-11	Z	-0.07	-0.07	0	%100
77	MP-12	Z	-0.07	-0.07	0	%100
78	SA-1	Z	-0.04	-0.04	0	%100
79	SA-2	Z	-0.12	-0.12	0	%100
80	SA-3	Z	-0.14	-0.14	0	%100
81	SF1-HR	Z	-0.02	-0.02	0	%100
82	SF1-TH	Z	-0.02	-0.02	0	%100
83	SF2-HR	Z	-0.07	-0.07	0	%100
84	SF2-TH	Z	-0.08	-0.08	0	%100

Member Distributed Loads (BLC 5 : 60 Wind - No Ice)

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	CP-1	X	-0.13	-0.13	0	%100
2	CP-2	X	-0.07	-0.07	0	%100
3	CP-3	X	-0.07	-0.07	0	%100
4	FF-HR	X	-0.03	-0.03	0	%100
5	FF-TH	X	-0.03	-0.03	0	%100
6	GSI-1A	X	-0.09	-0.09	0	%100
7	GSI-1B	X	-0.09	-0.09	0	%100
8	GSI-2A	X	-0.05	-0.05	0	%100
9	GSI-2B	X	-0.05	-0.05	0	%100
10	GSI-3A	X	-0.05	-0.05	0	%100
11	GSI-3B	X	-0.05	-0.05	0	%100
12	GSIP-1A	X	-0.04	-0.04	0	%100
13	GSIP-1B	X	-0.03	-0.03	0	%100
14	GSIP-2A	X	-0.03	-0.03	0	%100
15	GSIP-2B	X	-0.06	-0.06	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : MSD
 Job Number : TEP No. 83631.424428
 Model Name : 302538 - Parsonage Hill Aka Wallin

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Member Distributed Loads (BLC 5 : 60 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
16	GSIP-3A	X	-0.06	-0.06	0	%100
17	GSIP-3B	X	-0.04	-0.04	0	%100
18	HRC-1	X	-0.06	-0.06	0	%100
19	HRC-2	X	-0.03	-0.03	0	%100
20	HRC-3	X	-0.03	-0.03	0	%100
21	K-1	X	-0.09	-0.09	0	%100
22	K-2	X	-0.09	-0.09	0	%100
23	K-3	X	-0.09	-0.09	0	%100
24	MP-1	X	-0.05	-0.05	0	%100
25	MP-2	X	-0.05	-0.05	0	%100
26	MP-3	X	-0.05	-0.05	0	%100
27	MP-4	X	-0.05	-0.05	0	%100
28	MP-5	X	-0.05	-0.05	0	%100
29	MP-6	X	-0.05	-0.05	0	%100
30	MP-7	X	-0.05	-0.05	0	%100
31	MP-8	X	-0.05	-0.05	0	%100
32	MP-9	X	-0.05	-0.05	0	%100
33	MP-10	X	-0.05	-0.05	0	%100
34	MP-11	X	-0.05	-0.05	0	%100
35	MP-12	X	-0.05	-0.05	0	%100
36	SA-1	X	0	0	0	%100
37	SA-2	X	-0.08	-0.08	0	%100
38	SA-3	X	-0.1	-0.1	0	%100
39	SF1-HR	X	-0.03	-0.03	0	%100
40	SF1-TH	X	-0.03	-0.03	0	%100
41	SF2-HR	X	-0.05	-0.05	0	%100
42	SF2-TH	X	-0.05	-0.05	0	%100
43	CP-1	Z	-0.23	-0.23	0	%100
44	CP-2	Z	-0.11	-0.11	0	%100
45	CP-3	Z	-0.11	-0.11	0	%100
46	FF-HR	Z	-0.05	-0.05	0	%100
47	FF-TH	Z	-0.05	-0.05	0	%100
48	GSI-1A	Z	-0.18	-0.18	0	%100
49	GSI-1B	Z	-0.18	-0.18	0	%100
50	GSI-2A	Z	-0.09	-0.09	0	%100
51	GSI-2B	Z	-0.09	-0.09	0	%100
52	GSI-3A	Z	-0.09	-0.09	0	%100
53	GSI-3B	Z	-0.09	-0.09	0	%100
54	GSIP-1A	Z	-0.06	-0.06	0	%100
55	GSIP-1B	Z	-0.06	-0.06	0	%100
56	GSIP-2A	Z	-0.06	-0.06	0	%100
57	GSIP-2B	Z	-0.12	-0.12	0	%100
58	GSIP-3A	Z	-0.12	-0.12	0	%100
59	GSIP-3B	Z	-0.06	-0.06	0	%100
60	HRC-1	Z	-0.11	-0.11	0	%100
61	HRC-2	Z	-0.05	-0.05	0	%100
62	HRC-3	Z	-0.05	-0.05	0	%100
63	K-1	Z	-0.15	-0.15	0	%100
64	K-2	Z	-0.15	-0.15	0	%100
65	K-3	Z	-0.15	-0.15	0	%100
66	MP-1	Z	-0.09	-0.09	0	%100
67	MP-2	Z	-0.09	-0.09	0	%100
68	MP-3	Z	-0.09	-0.09	0	%100
69	MP-4	Z	-0.09	-0.09	0	%100
70	MP-5	Z	-0.09	-0.09	0	%100
71	MP-6	Z	-0.09	-0.09	0	%100
72	MP-7	Z	-0.09	-0.09	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : MSD
 Job Number : TEP No. 83631.424428
 Model Name : 302538 - Parsonage Hill Aka Wallin

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Member Distributed Loads (BLC 5 : 60 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
73	MP-8	Z	-0.09	-0.09	0	%100
74	MP-9	Z	-0.09	-0.09	0	%100
75	MP-10	Z	-0.09	-0.09	0	%100
76	MP-11	Z	-0.09	-0.09	0	%100
77	MP-12	Z	-0.09	-0.09	0	%100
78	SA-1	Z	0	0	0	%100
79	SA-2	Z	-0.19	-0.19	0	%100
80	SA-3	Z	-0.16	-0.16	0	%100
81	SF1-HR	Z	-0.05	-0.05	0	%100
82	SF1-TH	Z	-0.05	-0.05	0	%100
83	SF2-HR	Z	-0.09	-0.09	0	%100
84	SF2-TH	Z	-0.1	-0.1	0	%100

Member Distributed Loads (BLC 6 : 90 Wind - No Ice)

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	CP-1	Z	-0.23	-0.23	0	%100
2	CP-2	Z	0	0	0	%100
3	CP-3	Z	-0.23	-0.23	0	%100
4	FF-HR	Z	0	0	0	%100
5	FF-TH	Z	0	0	0	%100
6	GSI-1A	Z	-0.18	-0.18	0	%100
7	GSI-1B	Z	-0.18	-0.18	0	%100
8	GSI-2A	Z	0	0	0	%100
9	GSI-2B	Z	0	0	0	%100
10	GSI-3A	Z	-0.18	-0.18	0	%100
11	GSI-3B	Z	-0.18	-0.18	0	%100
12	GSIP-1A	Z	0	0	0	%100
13	GSIP-1B	Z	-0.12	-0.12	0	%100
14	GSIP-2A	Z	-0.12	-0.12	0	%100
15	GSIP-2B	Z	-0.12	-0.12	0	%100
16	GSIP-3A	Z	-0.12	-0.12	0	%100
17	GSIP-3B	Z	0	0	0	%100
18	HRC-1	Z	-0.11	-0.11	0	%100
19	HRC-2	Z	0	0	0	%100
20	HRC-3	Z	-0.11	-0.11	0	%100
21	K-1	Z	-0.17	-0.17	0	%100
22	K-2	Z	-0.17	-0.17	0	%100
23	K-3	Z	-0.17	-0.17	0	%100
24	MP-1	Z	-0.1	-0.1	0	%100
25	MP-2	Z	-0.1	-0.1	0	%100
26	MP-3	Z	-0.1	-0.1	0	%100
27	MP-4	Z	-0.1	-0.1	0	%100
28	MP-5	Z	-0.1	-0.1	0	%100
29	MP-6	Z	-0.1	-0.1	0	%100
30	MP-7	Z	-0.1	-0.1	0	%100
31	MP-8	Z	-0.1	-0.1	0	%100
32	MP-9	Z	-0.1	-0.1	0	%100
33	MP-10	Z	-0.1	-0.1	0	%100
34	MP-11	Z	-0.1	-0.1	0	%100
35	MP-12	Z	-0.1	-0.1	0	%100
36	SA-1	Z	-0.11	-0.11	0	%100
37	SA-2	Z	-0.25	-0.25	0	%100
38	SA-3	Z	-0.11	-0.11	0	%100
39	SF1-HR	Z	-0.09	-0.09	0	%100
40	SF1-TH	Z	-0.1	-0.1	0	%100
41	SF2-HR	Z	-0.09	-0.09	0	%100
42	SF2-TH	Z	-0.1	-0.1	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : MSD
 Job Number : TEP No. 83631.424428
 Model Name : 302538 - Parsonage Hill Aka Wallin

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Member Distributed Loads (BLC 6 : 90 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
42	SF2-TH	Z	-0.1	-0.1	0	%100

Member Distributed Loads (BLC 7 : 120 Wind - No Ice)

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	CP-1	X	.007	.007	0	%100
2	CP-2	X	.007	.007	0	%100
3	CP-3	X	.013	.013	0	%100
4	FF-HR	X	.003	.003	0	%100
5	FF-TH	X	.003	.003	0	%100
6	GSI-1A	X	.005	.005	0	%100
7	GSI-1B	X	.005	.005	0	%100
8	GSI-2A	X	.005	.005	0	%100
9	GSI-2B	X	.005	.005	0	%100
10	GSI-3A	X	.009	.009	0	%100
11	GSI-3B	X	.009	.009	0	%100
12	GSIP-1A	X	.004	.004	0	%100
13	GSIP-1B	X	.006	.006	0	%100
14	GSIP-2A	X	.006	.006	0	%100
15	GSIP-2B	X	.003	.003	0	%100
16	GSIP-3A	X	.003	.003	0	%100
17	GSIP-3B	X	.004	.004	0	%100
18	HRC-1	X	.003	.003	0	%100
19	HRC-2	X	.003	.003	0	%100
20	HRC-3	X	.006	.006	0	%100
21	K-1	X	.009	.009	0	%100
22	K-2	X	.009	.009	0	%100
23	K-3	X	.009	.009	0	%100
24	MP-1	X	.005	.005	0	%100
25	MP-2	X	.005	.005	0	%100
26	MP-3	X	.005	.005	0	%100
27	MP-4	X	.005	.005	0	%100
28	MP-5	X	.005	.005	0	%100
29	MP-6	X	.005	.005	0	%100
30	MP-7	X	.005	.005	0	%100
31	MP-8	X	.005	.005	0	%100
32	MP-9	X	.005	.005	0	%100
33	MP-10	X	.005	.005	0	%100
34	MP-11	X	.005	.005	0	%100
35	MP-12	X	.005	.005	0	%100
36	SA-1	X	.01	.01	0	%100
37	SA-2	X	.008	.008	0	%100
38	SA-3	X	0	0	0	%100
39	SF1-HR	X	.005	.005	0	%100
40	SF1-TH	X	.005	.005	0	%100
41	SF2-HR	X	.003	.003	0	%100
42	SF2-TH	X	.003	.003	0	%100
43	CP-1	Z	-0.11	-0.11	0	%100
44	CP-2	Z	-0.11	-0.11	0	%100
45	CP-3	Z	-0.23	-0.23	0	%100
46	FF-HR	Z	-0.005	-0.005	0	%100
47	FF-TH	Z	-0.005	-0.005	0	%100
48	GSI-1A	Z	-0.009	-0.009	0	%100
49	GSI-1B	Z	-0.009	-0.009	0	%100
50	GSI-2A	Z	-0.009	-0.009	0	%100
51	GSI-2B	Z	-0.009	-0.009	0	%100
52	GSI-3A	Z	-0.18	-0.18	0	%100



Member Distributed Loads (BLC 7 : 120 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
53	GSI-3B	Z	-0.18	-0.18	0	%100
54	GSIP-1A	Z	-0.06	-0.06	0	%100
55	GSIP-1B	Z	-0.12	-0.12	0	%100
56	GSIP-2A	Z	-0.12	-0.12	0	%100
57	GSIP-2B	Z	-0.06	-0.06	0	%100
58	GSIP-3A	Z	-0.06	-0.06	0	%100
59	GSIP-3B	Z	-0.06	-0.06	0	%100
60	HRC-1	Z	-0.05	-0.05	0	%100
61	HRC-2	Z	-0.05	-0.05	0	%100
62	HRC-3	Z	-0.11	-0.11	0	%100
63	K-1	Z	-0.15	-0.15	0	%100
64	K-2	Z	-0.15	-0.15	0	%100
65	K-3	Z	-0.15	-0.15	0	%100
66	MP-1	Z	-0.09	-0.09	0	%100
67	MP-2	Z	-0.09	-0.09	0	%100
68	MP-3	Z	-0.09	-0.09	0	%100
69	MP-4	Z	-0.09	-0.09	0	%100
70	MP-5	Z	-0.09	-0.09	0	%100
71	MP-6	Z	-0.09	-0.09	0	%100
72	MP-7	Z	-0.09	-0.09	0	%100
73	MP-8	Z	-0.09	-0.09	0	%100
74	MP-9	Z	-0.09	-0.09	0	%100
75	MP-10	Z	-0.09	-0.09	0	%100
76	MP-11	Z	-0.09	-0.09	0	%100
77	MP-12	Z	-0.09	-0.09	0	%100
78	SA-1	Z	-0.16	-0.16	0	%100
79	SA-2	Z	-0.19	-0.19	0	%100
80	SA-3	Z	0	0	0	%100
81	SF1-HR	Z	-0.09	-0.09	0	%100
82	SF1-TH	Z	-0.01	-0.01	0	%100
83	SF2-HR	Z	-0.05	-0.05	0	%100
84	SF2-TH	Z	-0.05	-0.05	0	%100

Member Distributed Loads (BLC 8 : 135 Wind - No Ice)

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	CP-1	X	.005	.005	0	%100
2	CP-2	X	.013	.013	0	%100
3	CP-3	X	.018	.018	0	%100
4	FF-HR	X	.005	.005	0	%100
5	FF-TH	X	.006	.006	0	%100
6	GSI-1A	X	.003	.003	0	%100
7	GSI-1B	X	.003	.003	0	%100
8	GSI-2A	X	.01	.01	0	%100
9	GSI-2B	X	.01	.01	0	%100
10	GSI-3A	X	.013	.013	0	%100
11	GSI-3B	X	.013	.013	0	%100
12	GSIP-1A	X	.007	.007	0	%100
13	GSIP-1B	X	.008	.008	0	%100
14	GSIP-2A	X	.008	.008	0	%100
15	GSIP-2B	X	.002	.002	0	%100
16	GSIP-3A	X	.002	.002	0	%100
17	GSIP-3B	X	.007	.007	0	%100
18	HRC-1	X	.002	.002	0	%100
19	HRC-2	X	.006	.006	0	%100
20	HRC-3	X	.008	.008	0	%100
21	K-1	X	.012	.012	0	%100



Member Distributed Loads (BLC 8 : 135 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
22	K-2	X	.012	.012	0	%100
23	K-3	X	.012	.012	0	%100
24	MP-1	X	.007	.007	0	%100
25	MP-2	X	.007	.007	0	%100
26	MP-3	X	.007	.007	0	%100
27	MP-4	X	.007	.007	0	%100
28	MP-5	X	.007	.007	0	%100
29	MP-6	X	.007	.007	0	%100
30	MP-7	X	.007	.007	0	%100
31	MP-8	X	.007	.007	0	%100
32	MP-9	X	.007	.007	0	%100
33	MP-10	X	.007	.007	0	%100
34	MP-11	X	.007	.007	0	%100
35	MP-12	X	.007	.007	0	%100
36	SA-1	X	.016	.016	0	%100
37	SA-2	X	.009	.009	0	%100
38	SA-3	X	.004	.004	0	%100
39	SF1-HR	X	.007	.007	0	%100
40	SF1-TH	X	.007	.007	0	%100
41	SF2-HR	X	.002	.002	0	%100
42	SF2-TH	X	.002	.002	0	%100
43	CP-1	Z	-0.005	-0.005	0	%100
44	CP-2	Z	-0.013	-0.013	0	%100
45	CP-3	Z	-0.018	-0.018	0	%100
46	FF-HR	Z	-0.005	-0.005	0	%100
47	FF-TH	Z	-0.006	-0.006	0	%100
48	GSI-1A	Z	-0.004	-0.004	0	%100
49	GSI-1B	Z	-0.004	-0.004	0	%100
50	GSI-2A	Z	-.01	-.01	0	%100
51	GSI-2B	Z	-.01	-.01	0	%100
52	GSI-3A	Z	-.014	-.014	0	%100
53	GSI-3B	Z	-.014	-.014	0	%100
54	GSIP-1A	Z	-.007	-.007	0	%100
55	GSIP-1B	Z	-.009	-.009	0	%100
56	GSIP-2A	Z	-.009	-.009	0	%100
57	GSIP-2B	Z	-.003	-.003	0	%100
58	GSIP-3A	Z	-.003	-.003	0	%100
59	GSIP-3B	Z	-.007	-.007	0	%100
60	HRC-1	Z	-.002	-.002	0	%100
61	HRC-2	Z	-.006	-.006	0	%100
62	HRC-3	Z	-.008	-.008	0	%100
63	K-1	Z	-.012	-.012	0	%100
64	K-2	Z	-.012	-.012	0	%100
65	K-3	Z	-.012	-.012	0	%100
66	MP-1	Z	-.007	-.007	0	%100
67	MP-2	Z	-.007	-.007	0	%100
68	MP-3	Z	-.007	-.007	0	%100
69	MP-4	Z	-.007	-.007	0	%100
70	MP-5	Z	-.007	-.007	0	%100
71	MP-6	Z	-.007	-.007	0	%100
72	MP-7	Z	-.007	-.007	0	%100
73	MP-8	Z	-.007	-.007	0	%100
74	MP-9	Z	-.007	-.007	0	%100
75	MP-10	Z	-.007	-.007	0	%100
76	MP-11	Z	-.007	-.007	0	%100
77	MP-12	Z	-.007	-.007	0	%100
78	SA-1	Z	-.014	-.014	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : MSD
 Job Number : TEP No. 83631.424428
 Model Name : 302538 - Parsonage Hill Aka Wallin

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Member Distributed Loads (BLC 8 : 135 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
79	SA-2	Z	-.012	-.012	0	%100
80	SA-3	Z	-.004	-.004	0	%100
81	SF1-HR	Z	-.007	-.007	0	%100
82	SF1-TH	Z	-.008	-.008	0	%100
83	SF2-HR	Z	-.002	-.002	0	%100
84	SF2-TH	Z	-.002	-.002	0	%100

Member Distributed Loads (BLC 9 : 150 Wind - No Ice)

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	CP-1	X	0	0	0	%100
2	CP-2	X	.02	.02	0	%100
3	CP-3	X	.02	.02	0	%100
4	FF-HR	X	.008	.008	0	%100
5	FF-TH	X	.009	.009	0	%100
6	GSI-1A	X	0	0	0	%100
7	GSI-1B	X	0	0	0	%100
8	GSI-2A	X	.016	.016	0	%100
9	GSI-2B	X	.016	.016	0	%100
10	GSI-3A	X	.014	.014	0	%100
11	GSI-3B	X	.014	.014	0	%100
12	GSIP-1A	X	.011	.011	0	%100
13	GSIP-1B	X	.009	.009	0	%100
14	GSIP-2A	X	.009	.009	0	%100
15	GSIP-2B	X	1e-6	1e-6	0	%100
16	GSIP-3A	X	0	0	0	%100
17	GSIP-3B	X	.011	.011	0	%100
18	HRC-1	X	0	0	0	%100
19	HRC-2	X	.009	.009	0	%100
20	HRC-3	X	.008	.008	0	%100
21	K-1	X	.015	.015	0	%100
22	K-2	X	.015	.015	0	%100
23	K-3	X	.015	.015	0	%100
24	MP-1	X	.009	.009	0	%100
25	MP-2	X	.009	.009	0	%100
26	MP-3	X	.009	.009	0	%100
27	MP-4	X	.009	.009	0	%100
28	MP-5	X	.009	.009	0	%100
29	MP-6	X	.009	.009	0	%100
30	MP-7	X	.009	.009	0	%100
31	MP-8	X	.009	.009	0	%100
32	MP-9	X	.009	.009	0	%100
33	MP-10	X	.009	.009	0	%100
34	MP-11	X	.009	.009	0	%100
35	MP-12	X	.009	.009	0	%100
36	SA-1	X	.021	.021	0	%100
37	SA-2	X	.008	.008	0	%100
38	SA-3	X	.01	.01	0	%100
39	SF1-HR	X	.008	.008	0	%100
40	SF1-TH	X	.008	.008	0	%100
41	SF2-HR	X	0	0	0	%100
42	SF2-TH	X	0	0	0	%100
43	CP-1	Z	0	0	0	%100
44	CP-2	Z	-.011	-.011	0	%100
45	CP-3	Z	-.011	-.011	0	%100
46	FF-HR	Z	-.005	-.005	0	%100
47	FF-TH	Z	-.005	-.005	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : MSD
 Job Number : TEP No. 83631.424428
 Model Name : 302538 - Parsonage Hill Aka Wallin

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Member Distributed Loads (BLC 9 : 150 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
48	GSI-1A	Z	0	0	0	%100
49	GSI-1B	Z	0	0	0	%100
50	GSI-2A	Z	-.009	-.009	0	%100
51	GSI-2B	Z	-.009	-.009	0	%100
52	GSI-3A	Z	-.009	-.009	0	%100
53	GSI-3B	Z	-.009	-.009	0	%100
54	GSIP-1A	Z	-.006	-.006	0	%100
55	GSIP-1B	Z	-.006	-.006	0	%100
56	GSIP-2A	Z	-.006	-.006	0	%100
57	GSIP-2B	Z	0	0	0	%100
58	GSIP-3A	Z	0	0	0	%100
59	GSIP-3B	Z	-.006	-.006	0	%100
60	HRC-1	Z	0	0	0	%100
61	HRC-2	Z	-.005	-.005	0	%100
62	HRC-3	Z	-.005	-.005	0	%100
63	K-1	Z	-.009	-.009	0	%100
64	K-2	Z	-.009	-.009	0	%100
65	K-3	Z	-.009	-.009	0	%100
66	MP-1	Z	-.005	-.005	0	%100
67	MP-2	Z	-.005	-.005	0	%100
68	MP-3	Z	-.005	-.005	0	%100
69	MP-4	Z	-.005	-.005	0	%100
70	MP-5	Z	-.005	-.005	0	%100
71	MP-6	Z	-.005	-.005	0	%100
72	MP-7	Z	-.005	-.005	0	%100
73	MP-8	Z	-.005	-.005	0	%100
74	MP-9	Z	-.005	-.005	0	%100
75	MP-10	Z	-.005	-.005	0	%100
76	MP-11	Z	-.005	-.005	0	%100
77	MP-12	Z	-.005	-.005	0	%100
78	SA-1	Z	-.011	-.011	0	%100
79	SA-2	Z	-.006	-.006	0	%100
80	SA-3	Z	-.005	-.005	0	%100
81	SF1-HR	Z	-.005	-.005	0	%100
82	SF1-TH	Z	-.005	-.005	0	%100
83	SF2-HR	Z	0	0	0	%100
84	SF2-TH	Z	0	0	0	%100

Member Distributed Loads (BLC 10 : 180 Wind - No Ice)

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	CP-1	X	.013	.013	0	%100
2	CP-2	X	.027	.027	0	%100
3	CP-3	X	.013	.013	0	%100
4	FF-HR	X	.01	.01	0	%100
5	FF-TH	X	.012	.012	0	%100
6	GSI-1A	X	.009	.009	0	%100
7	GSI-1B	X	.009	.009	0	%100
8	GSI-2A	X	.021	.021	0	%100
9	GSI-2B	X	.021	.021	0	%100
10	GSI-3A	X	.009	.009	0	%100
11	GSI-3B	X	.009	.009	0	%100
12	GSIP-1A	X	.015	.015	0	%100
13	GSIP-1B	X	.006	.006	0	%100
14	GSIP-2A	X	.006	.006	0	%100
15	GSIP-2B	X	.006	.006	0	%100
16	GSIP-3A	X	.006	.006	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : MSD
 Job Number : TEP No. 83631.424428
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Member Distributed Loads (BLC 10 : 180 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
17	GSIP-3B	X	.015	.015	0	%100
18	HRC-1	X	.006	.006	0	%100
19	HRC-2	X	.012	.012	0	%100
20	HRC-3	X	.006	.006	0	%100
21	K-1	X	.017	.017	0	%100
22	K-2	X	.017	.017	0	%100
23	K-3	X	.017	.017	0	%100
24	MP-1	X	.01	.01	0	%100
25	MP-2	X	.01	.01	0	%100
26	MP-3	X	.01	.01	0	%100
27	MP-4	X	.01	.01	0	%100
28	MP-5	X	.01	.01	0	%100
29	MP-6	X	.01	.01	0	%100
30	MP-7	X	.01	.01	0	%100
31	MP-8	X	.01	.01	0	%100
32	MP-9	X	.01	.01	0	%100
33	MP-10	X	.01	.01	0	%100
34	MP-11	X	.01	.01	0	%100
35	MP-12	X	.01	.01	0	%100
36	SA-1	X	.021	.021	0	%100
37	SA-2	X	0	0	0	%100
38	SA-3	X	.021	.021	0	%100
39	SF1-HR	X	.005	.005	0	%100
40	SF1-TH	X	.005	.005	0	%100
41	SF2-HR	X	.005	.005	0	%100
42	SF2-TH	X	.005	.005	0	%100

Member Distributed Loads (BLC 11 : 210 Wind - No Ice)

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	CP-1	X	.02	.02	0	%100
2	CP-2	X	.02	.02	0	%100
3	CP-3	X	0	0	0	%100
4	FF-HR	X	.008	.008	0	%100
5	FF-TH	X	.009	.009	0	%100
6	GSI-1A	X	.014	.014	0	%100
7	GSI-1B	X	.014	.014	0	%100
8	GSI-2A	X	.016	.016	0	%100
9	GSI-2B	X	.016	.016	0	%100
10	GSI-3A	X	0	0	0	%100
11	GSI-3B	X	0	0	0	%100
12	GSIP-1A	X	.011	.011	0	%100
13	GSIP-1B	X	1e-6	1e-6	0	%100
14	GSIP-2A	X	0	0	0	%100
15	GSIP-2B	X	.009	.009	0	%100
16	GSIP-3A	X	.009	.009	0	%100
17	GSIP-3B	X	.011	.011	0	%100
18	HRC-1	X	.008	.008	0	%100
19	HRC-2	X	.009	.009	0	%100
20	HRC-3	X	0	0	0	%100
21	K-1	X	.015	.015	0	%100
22	K-2	X	.015	.015	0	%100
23	K-3	X	.015	.015	0	%100
24	MP-1	X	.009	.009	0	%100
25	MP-2	X	.009	.009	0	%100
26	MP-3	X	.009	.009	0	%100
27	MP-4	X	.009	.009	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : MSD
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Member Distributed Loads (BLC 11 : 210 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
28	MP-5	X	.009	.009	0	%100
29	MP-6	X	.009	.009	0	%100
30	MP-7	X	.009	.009	0	%100
31	MP-8	X	.009	.009	0	%100
32	MP-9	X	.009	.009	0	%100
33	MP-10	X	.009	.009	0	%100
34	MP-11	X	.009	.009	0	%100
35	MP-12	X	.009	.009	0	%100
36	SA-1	X	.01	.01	0	%100
37	SA-2	X	.008	.008	0	%100
38	SA-3	X	.021	.021	0	%100
39	SF1-HR	X	0	0	0	%100
40	SF1-TH	X	0	0	0	%100
41	SF2-HR	X	.008	.008	0	%100
42	SF2-TH	X	.008	.008	0	%100
43	CP-1	Z	.011	.011	0	%100
44	CP-2	Z	.011	.011	0	%100
45	CP-3	Z	0	0	0	%100
46	FF-HR	Z	.005	.005	0	%100
47	FF-TH	Z	.005	.005	0	%100
48	GSI-1A	Z	.009	.009	0	%100
49	GSI-1B	Z	.009	.009	0	%100
50	GSI-2A	Z	.009	.009	0	%100
51	GSI-2B	Z	.009	.009	0	%100
52	GSI-3A	Z	0	0	0	%100
53	GSI-3B	Z	0	0	0	%100
54	GSIP-1A	Z	.006	.006	0	%100
55	GSIP-1B	Z	0	0	0	%100
56	GSIP-2A	Z	0	0	0	%100
57	GSIP-2B	Z	.006	.006	0	%100
58	GSIP-3A	Z	.006	.006	0	%100
59	GSIP-3B	Z	.006	.006	0	%100
60	HRC-1	Z	.005	.005	0	%100
61	HRC-2	Z	.005	.005	0	%100
62	HRC-3	Z	0	0	0	%100
63	K-1	Z	.009	.009	0	%100
64	K-2	Z	.009	.009	0	%100
65	K-3	Z	.009	.009	0	%100
66	MP-1	Z	.005	.005	0	%100
67	MP-2	Z	.005	.005	0	%100
68	MP-3	Z	.005	.005	0	%100
69	MP-4	Z	.005	.005	0	%100
70	MP-5	Z	.005	.005	0	%100
71	MP-6	Z	.005	.005	0	%100
72	MP-7	Z	.005	.005	0	%100
73	MP-8	Z	.005	.005	0	%100
74	MP-9	Z	.005	.005	0	%100
75	MP-10	Z	.005	.005	0	%100
76	MP-11	Z	.005	.005	0	%100
77	MP-12	Z	.005	.005	0	%100
78	SA-1	Z	.005	.005	0	%100
79	SA-2	Z	.006	.006	0	%100
80	SA-3	Z	.011	.011	0	%100
81	SF1-HR	Z	0	0	0	%100
82	SF1-TH	Z	0	0	0	%100
83	SF2-HR	Z	.005	.005	0	%100
84	SF2-TH	Z	.005	.005	0	%100



Company : Tower Engineering Professionals, Inc.
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Member Distributed Loads (BLC 12 : 225 Wind - No Ice)

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	CP-1	X	.018	.018	0	%100
2	CP-2	X	.013	.013	0	%100
3	CP-3	X	.005	.005	0	%100
4	FF-HR	X	.005	.005	0	%100
5	FF-TH	X	.006	.006	0	%100
6	GSI-1A	X	.013	.013	0	%100
7	GSI-1B	X	.013	.013	0	%100
8	GSI-2A	X	.01	.01	0	%100
9	GSI-2B	X	.01	.01	0	%100
10	GSI-3A	X	.003	.003	0	%100
11	GSI-3B	X	.003	.003	0	%100
12	GSIP-1A	X	.007	.007	0	%100
13	GSIP-1B	X	.002	.002	0	%100
14	GSIP-2A	X	.002	.002	0	%100
15	GSIP-2B	X	.008	.008	0	%100
16	GSIP-3A	X	.008	.008	0	%100
17	GSIP-3B	X	.007	.007	0	%100
18	HRC-1	X	.008	.008	0	%100
19	HRC-2	X	.006	.006	0	%100
20	HRC-3	X	.002	.002	0	%100
21	K-1	X	.012	.012	0	%100
22	K-2	X	.012	.012	0	%100
23	K-3	X	.012	.012	0	%100
24	MP-1	X	.007	.007	0	%100
25	MP-2	X	.007	.007	0	%100
26	MP-3	X	.007	.007	0	%100
27	MP-4	X	.007	.007	0	%100
28	MP-5	X	.007	.007	0	%100
29	MP-6	X	.007	.007	0	%100
30	MP-7	X	.007	.007	0	%100
31	MP-8	X	.007	.007	0	%100
32	MP-9	X	.007	.007	0	%100
33	MP-10	X	.007	.007	0	%100
34	MP-11	X	.007	.007	0	%100
35	MP-12	X	.007	.007	0	%100
36	SA-1	X	.004	.004	0	%100
37	SA-2	X	.009	.009	0	%100
38	SA-3	X	.016	.016	0	%100
39	SF1-HR	X	.002	.002	0	%100
40	SF1-TH	X	.002	.002	0	%100
41	SF2-HR	X	.007	.007	0	%100
42	SF2-TH	X	.007	.007	0	%100
43	CP-1	Z	.018	.018	0	%100
44	CP-2	Z	.013	.013	0	%100
45	CP-3	Z	.005	.005	0	%100
46	FF-HR	Z	.005	.005	0	%100
47	FF-TH	Z	.006	.006	0	%100
48	GSI-1A	Z	.014	.014	0	%100
49	GSI-1B	Z	.014	.014	0	%100
50	GSI-2A	Z	.01	.01	0	%100
51	GSI-2B	Z	.01	.01	0	%100
52	GSI-3A	Z	.004	.004	0	%100
53	GSI-3B	Z	.004	.004	0	%100
54	GSIP-1A	Z	.007	.007	0	%100
55	GSIP-1B	Z	.003	.003	0	%100
56	GSIP-2A	Z	.003	.003	0	%100
57	GSIP-2B	Z	.009	.009	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : MSD
 Job Number : TEP No. 83631.424428
 Model Name : 302538 - Parsonage Hill Aka Wallin

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Member Distributed Loads (BLC 12 : 225 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
58	GSIP-3A	Z	.009	.009	0	%100
59	GSIP-3B	Z	.007	.007	0	%100
60	HRC-1	Z	.008	.008	0	%100
61	HRC-2	Z	.006	.006	0	%100
62	HRC-3	Z	.002	.002	0	%100
63	K-1	Z	.012	.012	0	%100
64	K-2	Z	.012	.012	0	%100
65	K-3	Z	.012	.012	0	%100
66	MP-1	Z	.007	.007	0	%100
67	MP-2	Z	.007	.007	0	%100
68	MP-3	Z	.007	.007	0	%100
69	MP-4	Z	.007	.007	0	%100
70	MP-5	Z	.007	.007	0	%100
71	MP-6	Z	.007	.007	0	%100
72	MP-7	Z	.007	.007	0	%100
73	MP-8	Z	.007	.007	0	%100
74	MP-9	Z	.007	.007	0	%100
75	MP-10	Z	.007	.007	0	%100
76	MP-11	Z	.007	.007	0	%100
77	MP-12	Z	.007	.007	0	%100
78	SA-1	Z	.004	.004	0	%100
79	SA-2	Z	.012	.012	0	%100
80	SA-3	Z	.014	.014	0	%100
81	SF1-HR	Z	.002	.002	0	%100
82	SF1-TH	Z	.002	.002	0	%100
83	SF2-HR	Z	.007	.007	0	%100
84	SF2-TH	Z	.008	.008	0	%100

Member Distributed Loads (BLC 13 : 240 Wind - No Ice)

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	CP-1	X	.013	.013	0	%100
2	CP-2	X	.007	.007	0	%100
3	CP-3	X	.007	.007	0	%100
4	FF-HR	X	.003	.003	0	%100
5	FF-TH	X	.003	.003	0	%100
6	GSI-1A	X	.009	.009	0	%100
7	GSI-1B	X	.009	.009	0	%100
8	GSI-2A	X	.005	.005	0	%100
9	GSI-2B	X	.005	.005	0	%100
10	GSI-3A	X	.005	.005	0	%100
11	GSI-3B	X	.005	.005	0	%100
12	GSIP-1A	X	.004	.004	0	%100
13	GSIP-1B	X	.003	.003	0	%100
14	GSIP-2A	X	.003	.003	0	%100
15	GSIP-2B	X	.006	.006	0	%100
16	GSIP-3A	X	.006	.006	0	%100
17	GSIP-3B	X	.004	.004	0	%100
18	HRC-1	X	.006	.006	0	%100
19	HRC-2	X	.003	.003	0	%100
20	HRC-3	X	.003	.003	0	%100
21	K-1	X	.009	.009	0	%100
22	K-2	X	.009	.009	0	%100
23	K-3	X	.009	.009	0	%100
24	MP-1	X	.005	.005	0	%100
25	MP-2	X	.005	.005	0	%100
26	MP-3	X	.005	.005	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : MSD
 Job Number : TEP No. 83631.424428
 Model Name : 302538 - Parsonage Hill Aka Wallin

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Member Distributed Loads (BLC 13 : 240 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
27	MP-4	X	.005	.005	0	%100
28	MP-5	X	.005	.005	0	%100
29	MP-6	X	.005	.005	0	%100
30	MP-7	X	.005	.005	0	%100
31	MP-8	X	.005	.005	0	%100
32	MP-9	X	.005	.005	0	%100
33	MP-10	X	.005	.005	0	%100
34	MP-11	X	.005	.005	0	%100
35	MP-12	X	.005	.005	0	%100
36	SA-1	X	0	0	0	%100
37	SA-2	X	.008	.008	0	%100
38	SA-3	X	.01	.01	0	%100
39	SF1-HR	X	.003	.003	0	%100
40	SF1-TH	X	.003	.003	0	%100
41	SF2-HR	X	.005	.005	0	%100
42	SF2-TH	X	.005	.005	0	%100
43	CP-1	Z	.023	.023	0	%100
44	CP-2	Z	.011	.011	0	%100
45	CP-3	Z	.011	.011	0	%100
46	FF-HR	Z	.005	.005	0	%100
47	FF-TH	Z	.005	.005	0	%100
48	GSI-1A	Z	.018	.018	0	%100
49	GSI-1B	Z	.018	.018	0	%100
50	GSI-2A	Z	.009	.009	0	%100
51	GSI-2B	Z	.009	.009	0	%100
52	GSI-3A	Z	.009	.009	0	%100
53	GSI-3B	Z	.009	.009	0	%100
54	GSIP-1A	Z	.006	.006	0	%100
55	GSIP-1B	Z	.006	.006	0	%100
56	GSIP-2A	Z	.006	.006	0	%100
57	GSIP-2B	Z	.012	.012	0	%100
58	GSIP-3A	Z	.012	.012	0	%100
59	GSIP-3B	Z	.006	.006	0	%100
60	HRC-1	Z	.011	.011	0	%100
61	HRC-2	Z	.005	.005	0	%100
62	HRC-3	Z	.005	.005	0	%100
63	K-1	Z	.015	.015	0	%100
64	K-2	Z	.015	.015	0	%100
65	K-3	Z	.015	.015	0	%100
66	MP-1	Z	.009	.009	0	%100
67	MP-2	Z	.009	.009	0	%100
68	MP-3	Z	.009	.009	0	%100
69	MP-4	Z	.009	.009	0	%100
70	MP-5	Z	.009	.009	0	%100
71	MP-6	Z	.009	.009	0	%100
72	MP-7	Z	.009	.009	0	%100
73	MP-8	Z	.009	.009	0	%100
74	MP-9	Z	.009	.009	0	%100
75	MP-10	Z	.009	.009	0	%100
76	MP-11	Z	.009	.009	0	%100
77	MP-12	Z	.009	.009	0	%100
78	SA-1	Z	0	0	0	%100
79	SA-2	Z	.019	.019	0	%100
80	SA-3	Z	.016	.016	0	%100
81	SF1-HR	Z	.005	.005	0	%100
82	SF1-TH	Z	.005	.005	0	%100
83	SF2-HR	Z	.009	.009	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : MSD
 Job Number : TEP No. 83631.424428
 Model Name : 302538 - Parsonage Hill Aka Wallin

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Member Distributed Loads (BLC 13 : 240 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
84	SF2-TH	Z	.01	.01	0	%100

Member Distributed Loads (BLC 14 : 270 Wind - No Ice)

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	CP-1	Z	.023	.023	0	%100
2	CP-2	Z	0	0	0	%100
3	CP-3	Z	.023	.023	0	%100
4	FF-HR	Z	0	0	0	%100
5	FF-TH	Z	0	0	0	%100
6	GSI-1A	Z	.018	.018	0	%100
7	GSI-1B	Z	.018	.018	0	%100
8	GSI-2A	Z	0	0	0	%100
9	GSI-2B	Z	0	0	0	%100
10	GSI-3A	Z	.018	.018	0	%100
11	GSI-3B	Z	.018	.018	0	%100
12	GSIP-1A	Z	0	0	0	%100
13	GSIP-1B	Z	.012	.012	0	%100
14	GSIP-2A	Z	.012	.012	0	%100
15	GSIP-2B	Z	.012	.012	0	%100
16	GSIP-3A	Z	.012	.012	0	%100
17	GSIP-3B	Z	0	0	0	%100
18	HRC-1	Z	.011	.011	0	%100
19	HRC-2	Z	0	0	0	%100
20	HRC-3	Z	.011	.011	0	%100
21	K-1	Z	.017	.017	0	%100
22	K-2	Z	.017	.017	0	%100
23	K-3	Z	.017	.017	0	%100
24	MP-1	Z	.01	.01	0	%100
25	MP-2	Z	.01	.01	0	%100
26	MP-3	Z	.01	.01	0	%100
27	MP-4	Z	.01	.01	0	%100
28	MP-5	Z	.01	.01	0	%100
29	MP-6	Z	.01	.01	0	%100
30	MP-7	Z	.01	.01	0	%100
31	MP-8	Z	.01	.01	0	%100
32	MP-9	Z	.01	.01	0	%100
33	MP-10	Z	.01	.01	0	%100
34	MP-11	Z	.01	.01	0	%100
35	MP-12	Z	.01	.01	0	%100
36	SA-1	Z	.011	.011	0	%100
37	SA-2	Z	.025	.025	0	%100
38	SA-3	Z	.011	.011	0	%100
39	SF1-HR	Z	.009	.009	0	%100
40	SF1-TH	Z	.01	.01	0	%100
41	SF2-HR	Z	.009	.009	0	%100
42	SF2-TH	Z	.01	.01	0	%100

Member Distributed Loads (BLC 15 : 300 Wind - No Ice)

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	CP-1	X	-.007	-.007	0	%100
2	CP-2	X	-.007	-.007	0	%100
3	CP-3	X	-.013	-.013	0	%100
4	FF-HR	X	-.003	-.003	0	%100
5	FF-TH	X	-.003	-.003	0	%100
6	GSI-1A	X	-.005	-.005	0	%100
7	GSI-1B	X	-.005	-.005	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : MSD
 Job Number : TEP No. 83631.424428
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Member Distributed Loads (BLC 15 : 300 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
8	GSI-2A	X	-0.05	-0.05	0	%100
9	GSI-2B	X	-0.05	-0.05	0	%100
10	GSI-3A	X	-0.09	-0.09	0	%100
11	GSI-3B	X	-0.09	-0.09	0	%100
12	GSIP-1A	X	-0.04	-0.04	0	%100
13	GSIP-1B	X	-0.06	-0.06	0	%100
14	GSIP-2A	X	-0.06	-0.06	0	%100
15	GSIP-2B	X	-0.03	-0.03	0	%100
16	GSIP-3A	X	-0.03	-0.03	0	%100
17	GSIP-3B	X	-0.04	-0.04	0	%100
18	HRC-1	X	-0.03	-0.03	0	%100
19	HRC-2	X	-0.03	-0.03	0	%100
20	HRC-3	X	-0.06	-0.06	0	%100
21	K-1	X	-0.09	-0.09	0	%100
22	K-2	X	-0.09	-0.09	0	%100
23	K-3	X	-0.09	-0.09	0	%100
24	MP-1	X	-0.05	-0.05	0	%100
25	MP-2	X	-0.05	-0.05	0	%100
26	MP-3	X	-0.05	-0.05	0	%100
27	MP-4	X	-0.05	-0.05	0	%100
28	MP-5	X	-0.05	-0.05	0	%100
29	MP-6	X	-0.05	-0.05	0	%100
30	MP-7	X	-0.05	-0.05	0	%100
31	MP-8	X	-0.05	-0.05	0	%100
32	MP-9	X	-0.05	-0.05	0	%100
33	MP-10	X	-0.05	-0.05	0	%100
34	MP-11	X	-0.05	-0.05	0	%100
35	MP-12	X	-0.05	-0.05	0	%100
36	SA-1	X	-0.01	-0.01	0	%100
37	SA-2	X	-0.08	-0.08	0	%100
38	SA-3	X	0	0	0	%100
39	SF1-HR	X	-0.05	-0.05	0	%100
40	SF1-TH	X	-0.05	-0.05	0	%100
41	SF2-HR	X	-0.03	-0.03	0	%100
42	SF2-TH	X	-0.03	-0.03	0	%100
43	CP-1	Z	.011	.011	0	%100
44	CP-2	Z	.011	.011	0	%100
45	CP-3	Z	.023	.023	0	%100
46	FF-HR	Z	.005	.005	0	%100
47	FF-TH	Z	.005	.005	0	%100
48	GSI-1A	Z	.009	.009	0	%100
49	GSI-1B	Z	.009	.009	0	%100
50	GSI-2A	Z	.009	.009	0	%100
51	GSI-2B	Z	.009	.009	0	%100
52	GSI-3A	Z	.018	.018	0	%100
53	GSI-3B	Z	.018	.018	0	%100
54	GSIP-1A	Z	.006	.006	0	%100
55	GSIP-1B	Z	.012	.012	0	%100
56	GSIP-2A	Z	.012	.012	0	%100
57	GSIP-2B	Z	.006	.006	0	%100
58	GSIP-3A	Z	.006	.006	0	%100
59	GSIP-3B	Z	.006	.006	0	%100
60	HRC-1	Z	.005	.005	0	%100
61	HRC-2	Z	.005	.005	0	%100
62	HRC-3	Z	.011	.011	0	%100
63	K-1	Z	.015	.015	0	%100
64	K-2	Z	.015	.015	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : MSD
 Job Number : TEP No. 83631.424428
 Model Name : 302538 - Parsonage Hill Aka Wallin

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Member Distributed Loads (BLC 15 : 300 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
65	K-3	Z	.015	.015	0	%100
66	MP-1	Z	.009	.009	0	%100
67	MP-2	Z	.009	.009	0	%100
68	MP-3	Z	.009	.009	0	%100
69	MP-4	Z	.009	.009	0	%100
70	MP-5	Z	.009	.009	0	%100
71	MP-6	Z	.009	.009	0	%100
72	MP-7	Z	.009	.009	0	%100
73	MP-8	Z	.009	.009	0	%100
74	MP-9	Z	.009	.009	0	%100
75	MP-10	Z	.009	.009	0	%100
76	MP-11	Z	.009	.009	0	%100
77	MP-12	Z	.009	.009	0	%100
78	SA-1	Z	.016	.016	0	%100
79	SA-2	Z	.019	.019	0	%100
80	SA-3	Z	0	0	0	%100
81	SF1-HR	Z	.009	.009	0	%100
82	SF1-TH	Z	.01	.01	0	%100
83	SF2-HR	Z	.005	.005	0	%100
84	SF2-TH	Z	.005	.005	0	%100

Member Distributed Loads (BLC 16 : 315 Wind - No Ice)

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	CP-1	X	-0.05	-0.05	0	%100
2	CP-2	X	-0.13	-0.13	0	%100
3	CP-3	X	-0.18	-0.18	0	%100
4	FF-HR	X	-0.05	-0.05	0	%100
5	FF-TH	X	-0.06	-0.06	0	%100
6	GSI-1A	X	-0.03	-0.03	0	%100
7	GSI-1B	X	-0.03	-0.03	0	%100
8	GSI-2A	X	-0.01	-0.01	0	%100
9	GSI-2B	X	-0.01	-0.01	0	%100
10	GSI-3A	X	-0.13	-0.13	0	%100
11	GSI-3B	X	-0.13	-0.13	0	%100
12	GSIP-1A	X	-0.07	-0.07	0	%100
13	GSIP-1B	X	-0.08	-0.08	0	%100
14	GSIP-2A	X	-0.08	-0.08	0	%100
15	GSIP-2B	X	-0.02	-0.02	0	%100
16	GSIP-3A	X	-0.02	-0.02	0	%100
17	GSIP-3B	X	-0.07	-0.07	0	%100
18	HRC-1	X	-0.02	-0.02	0	%100
19	HRC-2	X	-0.06	-0.06	0	%100
20	HRC-3	X	-0.08	-0.08	0	%100
21	K-1	X	-0.12	-0.12	0	%100
22	K-2	X	-0.12	-0.12	0	%100
23	K-3	X	-0.12	-0.12	0	%100
24	MP-1	X	-0.07	-0.07	0	%100
25	MP-2	X	-0.07	-0.07	0	%100
26	MP-3	X	-0.07	-0.07	0	%100
27	MP-4	X	-0.07	-0.07	0	%100
28	MP-5	X	-0.07	-0.07	0	%100
29	MP-6	X	-0.07	-0.07	0	%100
30	MP-7	X	-0.07	-0.07	0	%100
31	MP-8	X	-0.07	-0.07	0	%100
32	MP-9	X	-0.07	-0.07	0	%100
33	MP-10	X	-0.07	-0.07	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : MSD
 Job Number : TEP No. 83631.424428
 Model Name : 302538 - Parsonage Hill Aka Wallin

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Member Distributed Loads (BLC 16 : 315 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
34	MP-11	X	-.007	-.007	0	%100
35	MP-12	X	-.007	-.007	0	%100
36	SA-1	X	-.016	-.016	0	%100
37	SA-2	X	-.009	-.009	0	%100
38	SA-3	X	-.004	-.004	0	%100
39	SF1-HR	X	-.007	-.007	0	%100
40	SF1-TH	X	-.007	-.007	0	%100
41	SF2-HR	X	-.002	-.002	0	%100
42	SF2-TH	X	-.002	-.002	0	%100
43	CP-1	Z	.005	.005	0	%100
44	CP-2	Z	.013	.013	0	%100
45	CP-3	Z	.018	.018	0	%100
46	FF-HR	Z	.005	.005	0	%100
47	FF-TH	Z	.006	.006	0	%100
48	GSI-1A	Z	.004	.004	0	%100
49	GSI-1B	Z	.004	.004	0	%100
50	GSI-2A	Z	.01	.01	0	%100
51	GSI-2B	Z	.01	.01	0	%100
52	GSI-3A	Z	.014	.014	0	%100
53	GSI-3B	Z	.014	.014	0	%100
54	GSIP-1A	Z	.007	.007	0	%100
55	GSIP-1B	Z	.009	.009	0	%100
56	GSIP-2A	Z	.009	.009	0	%100
57	GSIP-2B	Z	.003	.003	0	%100
58	GSIP-3A	Z	.003	.003	0	%100
59	GSIP-3B	Z	.007	.007	0	%100
60	HRC-1	Z	.002	.002	0	%100
61	HRC-2	Z	.006	.006	0	%100
62	HRC-3	Z	.008	.008	0	%100
63	K-1	Z	.012	.012	0	%100
64	K-2	Z	.012	.012	0	%100
65	K-3	Z	.012	.012	0	%100
66	MP-1	Z	.007	.007	0	%100
67	MP-2	Z	.007	.007	0	%100
68	MP-3	Z	.007	.007	0	%100
69	MP-4	Z	.007	.007	0	%100
70	MP-5	Z	.007	.007	0	%100
71	MP-6	Z	.007	.007	0	%100
72	MP-7	Z	.007	.007	0	%100
73	MP-8	Z	.007	.007	0	%100
74	MP-9	Z	.007	.007	0	%100
75	MP-10	Z	.007	.007	0	%100
76	MP-11	Z	.007	.007	0	%100
77	MP-12	Z	.007	.007	0	%100
78	SA-1	Z	.014	.014	0	%100
79	SA-2	Z	.012	.012	0	%100
80	SA-3	Z	.004	.004	0	%100
81	SF1-HR	Z	.007	.007	0	%100
82	SF1-TH	Z	.008	.008	0	%100
83	SF2-HR	Z	.002	.002	0	%100
84	SF2-TH	Z	.002	.002	0	%100

Member Distributed Loads (BLC 17 : 330 Wind - No Ice)

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	CP-1	X	0	0	0	%100
2	CP-2	X	-.02	-.02	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : MSD
 Job Number : TEP No. 83631.424428
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Member Distributed Loads (BLC 17 : 330 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
3	CP-3	X	-.02	-.02	0	%100
4	FF-HR	X	-.008	-.008	0	%100
5	FF-TH	X	-.009	-.009	0	%100
6	GSI-1A	X	0	0	0	%100
7	GSI-1B	X	0	0	0	%100
8	GSI-2A	X	-.016	-.016	0	%100
9	GSI-2B	X	-.016	-.016	0	%100
10	GSI-3A	X	-.014	-.014	0	%100
11	GSI-3B	X	-.014	-.014	0	%100
12	GSIP-1A	X	-.011	-.011	0	%100
13	GSIP-1B	X	-.009	-.009	0	%100
14	GSIP-2A	X	-.009	-.009	0	%100
15	GSIP-2B	X	-1e-6	-1e-6	0	%100
16	GSIP-3A	X	0	0	0	%100
17	GSIP-3B	X	-.011	-.011	0	%100
18	HRC-1	X	0	0	0	%100
19	HRC-2	X	-.009	-.009	0	%100
20	HRC-3	X	-.008	-.008	0	%100
21	K-1	X	-.015	-.015	0	%100
22	K-2	X	-.015	-.015	0	%100
23	K-3	X	-.015	-.015	0	%100
24	MP-1	X	-.009	-.009	0	%100
25	MP-2	X	-.009	-.009	0	%100
26	MP-3	X	-.009	-.009	0	%100
27	MP-4	X	-.009	-.009	0	%100
28	MP-5	X	-.009	-.009	0	%100
29	MP-6	X	-.009	-.009	0	%100
30	MP-7	X	-.009	-.009	0	%100
31	MP-8	X	-.009	-.009	0	%100
32	MP-9	X	-.009	-.009	0	%100
33	MP-10	X	-.009	-.009	0	%100
34	MP-11	X	-.009	-.009	0	%100
35	MP-12	X	-.009	-.009	0	%100
36	SA-1	X	-.021	-.021	0	%100
37	SA-2	X	-.008	-.008	0	%100
38	SA-3	X	-.01	-.01	0	%100
39	SF1-HR	X	-.008	-.008	0	%100
40	SF1-TH	X	-.008	-.008	0	%100
41	SF2-HR	X	0	0	0	%100
42	SF2-TH	X	0	0	0	%100
43	CP-1	Z	0	0	0	%100
44	CP-2	Z	.011	.011	0	%100
45	CP-3	Z	.011	.011	0	%100
46	FF-HR	Z	.005	.005	0	%100
47	FF-TH	Z	.005	.005	0	%100
48	GSI-1A	Z	0	0	0	%100
49	GSI-1B	Z	0	0	0	%100
50	GSI-2A	Z	.009	.009	0	%100
51	GSI-2B	Z	.009	.009	0	%100
52	GSI-3A	Z	.009	.009	0	%100
53	GSI-3B	Z	.009	.009	0	%100
54	GSIP-1A	Z	.006	.006	0	%100
55	GSIP-1B	Z	.006	.006	0	%100
56	GSIP-2A	Z	.006	.006	0	%100
57	GSIP-2B	Z	0	0	0	%100
58	GSIP-3A	Z	0	0	0	%100
59	GSIP-3B	Z	.006	.006	0	%100



Member Distributed Loads (BLC 17 : 330 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]
60	HRC-1	Z	0	0	%100
61	HRC-2	Z	.005	.005	%100
62	HRC-3	Z	.005	.005	%100
63	K-1	Z	.009	.009	%100
64	K-2	Z	.009	.009	%100
65	K-3	Z	.009	.009	%100
66	MP-1	Z	.005	.005	%100
67	MP-2	Z	.005	.005	%100
68	MP-3	Z	.005	.005	%100
69	MP-4	Z	.005	.005	%100
70	MP-5	Z	.005	.005	%100
71	MP-6	Z	.005	.005	%100
72	MP-7	Z	.005	.005	%100
73	MP-8	Z	.005	.005	%100
74	MP-9	Z	.005	.005	%100
75	MP-10	Z	.005	.005	%100
76	MP-11	Z	.005	.005	%100
77	MP-12	Z	.005	.005	%100
78	SA-1	Z	.011	.011	%100
79	SA-2	Z	.006	.006	%100
80	SA-3	Z	.005	.005	%100
81	SF1-HR	Z	.005	.005	%100
82	SF1-TH	Z	.005	.005	%100
83	SF2-HR	Z	0	0	%100
84	SF2-TH	Z	0	0	%100

Member Distributed Loads (BLC 18 : Ice Weight)

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]
1	CP-1	Y	-.017	-.017	0
2	CP-2	Y	-.017	-.017	0
3	CP-3	Y	-.017	-.017	0
4	FF-HR	Y	-.007	-.007	0
5	FF-TH	Y	-.009	-.009	0
6	GSI-1A	Y	-.01	-.01	0
7	GSI-1B	Y	-.01	-.01	0
8	GSI-2A	Y	-.01	-.01	0
9	GSI-2B	Y	-.01	-.01	0
10	GSI-3A	Y	-.01	-.01	0
11	GSI-3B	Y	-.01	-.01	0
12	GSIP-1A	Y	-.005	-.005	0
13	GSIP-1B	Y	-.005	-.005	0
14	GSIP-2A	Y	-.005	-.005	0
15	GSIP-2B	Y	-.005	-.005	0
16	GSIP-3A	Y	-.005	-.005	0
17	GSIP-3B	Y	-.005	-.005	0
18	HRC-1	Y	-.007	-.007	0
19	HRC-2	Y	-.007	-.007	0
20	HRC-3	Y	-.007	-.007	0
21	K-1	Y	-.006	-.006	0
22	K-2	Y	-.006	-.006	0
23	K-3	Y	-.006	-.006	0
24	MP-1	Y	-.007	-.007	0
25	MP-2	Y	-.007	-.007	0
26	MP-3	Y	-.007	-.007	0
27	MP-4	Y	-.007	-.007	0
28	MP-5	Y	-.007	-.007	0



Member Distributed Loads (BLC 18 : Ice Weight) (Continued)

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]
29	MP-6	Y	-.007	-.007	0
30	MP-7	Y	-.007	-.007	0
31	MP-8	Y	-.007	-.007	0
32	MP-9	Y	-.007	-.007	0
33	MP-10	Y	-.007	-.007	0
34	MP-11	Y	-.007	-.007	0
35	MP-12	Y	-.007	-.007	0
36	SA-1	Y	-.01	-.01	0
37	SA-2	Y	-.01	-.01	0
38	SA-3	Y	-.01	-.01	0
39	SF1-HR	Y	-.007	-.007	0
40	SF1-TH	Y	-.009	-.009	0
41	SF2-HR	Y	-.007	-.007	0
42	SF2-TH	Y	-.009	-.009	0

Member Distributed Loads (BLC 19 : 0 Wind - Ice)

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]
1	CP-1	X	-.008	-.008	0
2	CP-2	X	-.008	-.008	0
3	CP-3	X	-.008	-.008	0
4	FF-HR	X	-.004	-.004	0
5	FF-TH	X	-.005	-.005	0
6	GSI-1A	X	-.006	-.006	0
7	GSI-1B	X	-.006	-.006	0
8	GSI-2A	X	-.006	-.006	0
9	GSI-2B	X	-.006	-.006	0
10	GSI-3A	X	-.006	-.006	0
11	GSI-3B	X	-.006	-.006	0
12	GSIP-1A	X	-.005	-.005	0
13	GSIP-1B	X	-.004	-.004	0
14	GSIP-2A	X	-.004	-.004	0
15	GSIP-2B	X	-.004	-.004	0
16	GSIP-3A	X	-.004	-.004	0
17	GSIP-3B	X	-.005	-.005	0
18	HRC-1	X	-.005	-.005	0
19	HRC-2	X	-.005	-.005	0
20	HRC-3	X	-.005	-.005	0
21	K-1	X	-.005	-.005	0
22	K-2	X	-.005	-.005	0
23	K-3	X	-.005	-.005	0
24	MP-1	X	-.003	-.003	0
25	MP-2	X	-.003	-.003	0
26	MP-3	X	-.003	-.003	0
27	MP-4	X	-.003	-.003	0
28	MP-5	X	-.003	-.003	0
29	MP-6	X	-.003	-.003	0
30	MP-7	X	-.003	-.003	0
31	MP-8	X	-.003	-.003	0
32	MP-9	X	-.003	-.003	0
33	MP-10	X	-.003	-.003	0
34	MP-11	X	-.003	-.003	0
35	MP-12	X	-.003	-.003	0
36	SA-1	X	-.006	-.006	0
37	SA-2	X	-.005	-.005	0
38	SA-3	X	-.006	-.006	0
39	SF1-HR	X	-.003	-.003	0



Company : Tower Engineering Professionals, Inc.
 Designer : MSD
 Job Number : TEP No. 83631.424428
 Model Name : 302538 - Parsonage Hill Aka Wallin

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Member Distributed Loads (BLC 19 : 0 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
40	SF1-TH	X	-0.04	-0.04	0	%100
41	SF2-HR	X	-0.03	-0.03	0	%100
42	SF2-TH	X	-0.04	-0.04	0	%100

Member Distributed Loads (BLC 20 : 30 Wind - Ice)

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	CP-1	X	-0.06	-0.06	0	%100
2	CP-2	X	-0.06	-0.06	0	%100
3	CP-3	X	0	0	0	%100
4	FF-HR	X	-0.03	-0.03	0	%100
5	FF-TH	X	-0.04	-0.04	0	%100
6	GSI-1A	X	-0.04	-0.04	0	%100
7	GSI-1B	X	-0.04	-0.04	0	%100
8	GSI-2A	X	-0.05	-0.05	0	%100
9	GSI-2B	X	-0.05	-0.05	0	%100
10	GSI-3A	X	0	0	0	%100
11	GSI-3B	X	0	0	0	%100
12	GSIP-1A	X	-0.04	-0.04	0	%100
13	GSIP-1B	X	0	0	0	%100
14	GSIP-2A	X	0	0	0	%100
15	GSIP-2B	X	-0.03	-0.03	0	%100
16	GSIP-3A	X	-0.03	-0.03	0	%100
17	GSIP-3B	X	-0.04	-0.04	0	%100
18	HRC-1	X	-0.04	-0.04	0	%100
19	HRC-2	X	-0.04	-0.04	0	%100
20	HRC-3	X	0	0	0	%100
21	K-1	X	-0.04	-0.04	0	%100
22	K-2	X	-0.04	-0.04	0	%100
23	K-3	X	-0.04	-0.04	0	%100
24	MP-1	X	-0.03	-0.03	0	%100
25	MP-2	X	-0.03	-0.03	0	%100
26	MP-3	X	-0.03	-0.03	0	%100
27	MP-4	X	-0.03	-0.03	0	%100
28	MP-5	X	-0.03	-0.03	0	%100
29	MP-6	X	-0.03	-0.03	0	%100
30	MP-7	X	-0.03	-0.03	0	%100
31	MP-8	X	-0.03	-0.03	0	%100
32	MP-9	X	-0.03	-0.03	0	%100
33	MP-10	X	-0.03	-0.03	0	%100
34	MP-11	X	-0.03	-0.03	0	%100
35	MP-12	X	-0.03	-0.03	0	%100
36	SA-1	X	-0.03	-0.03	0	%100
37	SA-2	X	-0.02	-0.02	0	%100
38	SA-3	X	-0.06	-0.06	0	%100
39	SF1-HR	X	0	0	0	%100
40	SF1-TH	X	0	0	0	%100
41	SF2-HR	X	-0.02	-0.02	0	%100
42	SF2-TH	X	-0.03	-0.03	0	%100
43	CP-1	Z	-0.04	-0.04	0	%100
44	CP-2	Z	-0.03	-0.03	0	%100
45	CP-3	Z	0	0	0	%100
46	FF-HR	Z	-0.02	-0.02	0	%100
47	FF-TH	Z	-0.02	-0.02	0	%100
48	GSI-1A	Z	-0.03	-0.03	0	%100
49	GSI-1B	Z	-0.03	-0.03	0	%100
50	GSI-2A	Z	-0.02	-0.02	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : MSD
 Job Number : TEP No. 83631.424428
 Model Name : 302538 - Parsonage Hill Aka Wallin

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Member Distributed Loads (BLC 20 : 30 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
51	GSI-2B	Z	-0.02	-0.02	0	%100
52	GSI-3A	Z	0	0	0	%100
53	GSI-3B	Z	0	0	0	%100
54	GSIP-1A	Z	-0.02	-0.02	0	%100
55	GSIP-1B	Z	0	0	0	%100
56	GSIP-2A	Z	0	0	0	%100
57	GSIP-2B	Z	-0.02	-0.02	0	%100
58	GSIP-3A	Z	-0.02	-0.02	0	%100
59	GSIP-3B	Z	-0.02	-0.02	0	%100
60	HRC-1	Z	-0.02	-0.02	0	%100
61	HRC-2	Z	-0.02	-0.02	0	%100
62	HRC-3	Z	0	0	0	%100
63	K-1	Z	-0.03	-0.03	0	%100
64	K-2	Z	-0.03	-0.03	0	%100
65	K-3	Z	-0.03	-0.03	0	%100
66	MP-1	Z	-0.02	-0.02	0	%100
67	MP-2	Z	-0.02	-0.02	0	%100
68	MP-3	Z	-0.02	-0.02	0	%100
69	MP-4	Z	-0.02	-0.02	0	%100
70	MP-5	Z	-0.02	-0.02	0	%100
71	MP-6	Z	-0.02	-0.02	0	%100
72	MP-7	Z	-0.02	-0.02	0	%100
73	MP-8	Z	-0.02	-0.02	0	%100
74	MP-9	Z	-0.02	-0.02	0	%100
75	MP-10	Z	-0.02	-0.02	0	%100
76	MP-11	Z	-0.02	-0.02	0	%100
77	MP-12	Z	-0.02	-0.02	0	%100
78	SA-1	Z	-0.01	-0.01	0	%100
79	SA-2	Z	-0.02	-0.02	0	%100
80	SA-3	Z	-0.03	-0.03	0	%100
81	SF1-HR	Z	0	0	0	%100
82	SF1-TH	Z	0	0	0	%100
83	SF2-HR	Z	-0.02	-0.02	0	%100
84	SF2-TH	Z	-0.02	-0.02	0	%100

Member Distributed Loads (BLC 21 : 45 Wind - Ice)

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	CP-1	X	-0.06	-0.06	0	%100
2	CP-2	X	-0.04	-0.04	0	%100
3	CP-3	X	-0.02	-0.02	0	%100
4	FF-HR	X	-0.02	-0.02	0	%100
5	FF-TH	X	-0.02	-0.02	0	%100
6	GSI-1A	X	-0.04	-0.04	0	%100
7	GSI-1B	X	-0.04	-0.04	0	%100
8	GSI-2A	X	-0.03	-0.03	0	%100
9	GSI-2B	X	-0.03	-0.03	0	%100
10	GSI-3A	X	-0.01	-0.01	0	%100
11	GSI-3B	X	-0.01	-0.01	0	%100
12	GSIP-1A	X	-0.02	-0.02	0	%100
13	GSIP-1B	X	-0.00795	-0.00795	0	%100
14	GSIP-2A	X	-0.00796	-0.00796	0	%100
15	GSIP-2B	X	-0.03	-0.03	0	%100
16	GSIP-3A	X	-0.03	-0.03	0	%100
17	GSIP-3B	X	-0.02	-0.02	0	%100
18	HRC-1	X	-0.03	-0.03	0	%100
19	HRC-2	X	-0.02	-0.02	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : MSD
 Job Number : TEP No. 83631.424428
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Member Distributed Loads (BLC 21 : 45 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]
20	HRC-3	X	-0.00888	-0.00888	0 %100
21	K-1	X	-0.003	-0.003	0 %100
22	K-2	X	-0.003	-0.003	0 %100
23	K-3	X	-0.003	-0.003	0 %100
24	MP-1	X	-0.002	-0.002	0 %100
25	MP-2	X	-0.002	-0.002	0 %100
26	MP-3	X	-0.002	-0.002	0 %100
27	MP-4	X	-0.002	-0.002	0 %100
28	MP-5	X	-0.002	-0.002	0 %100
29	MP-6	X	-0.002	-0.002	0 %100
30	MP-7	X	-0.002	-0.002	0 %100
31	MP-8	X	-0.002	-0.002	0 %100
32	MP-9	X	-0.002	-0.002	0 %100
33	MP-10	X	-0.002	-0.002	0 %100
34	MP-11	X	-0.002	-0.002	0 %100
35	MP-12	X	-0.002	-0.002	0 %100
36	SA-1	X	-0.001	-0.001	0 %100
37	SA-2	X	-0.003	-0.003	0 %100
38	SA-3	X	-0.004	-0.004	0 %100
39	SF1-HR	X	-0.000598	-0.000598	0 %100
40	SF1-TH	X	-0.000682	-0.000682	0 %100
41	SF2-HR	X	-0.002	-0.002	0 %100
42	SF2-TH	X	-0.003	-0.003	0 %100
43	CP-1	Z	-0.006	-0.006	0 %100
44	CP-2	Z	-0.004	-0.004	0 %100
45	CP-3	Z	-0.002	-0.002	0 %100
46	FF-HR	Z	-0.002	-0.002	0 %100
47	FF-TH	Z	-0.002	-0.002	0 %100
48	GSI-1A	Z	-0.004	-0.004	0 %100
49	GSI-1B	Z	-0.004	-0.004	0 %100
50	GSI-2A	Z	-0.003	-0.003	0 %100
51	GSI-2B	Z	-0.003	-0.003	0 %100
52	GSI-3A	Z	-0.001	-0.001	0 %100
53	GSI-3B	Z	-0.001	-0.001	0 %100
54	GSIP-1A	Z	-0.002	-0.002	0 %100
55	GSIP-1B	Z	-0.000877	-0.000877	0 %100
56	GSIP-2A	Z	-0.000877	-0.000877	0 %100
57	GSIP-2B	Z	-0.003	-0.003	0 %100
58	GSIP-3A	Z	-0.003	-0.003	0 %100
59	GSIP-3B	Z	-0.002	-0.002	0 %100
60	HRC-1	Z	-0.003	-0.003	0 %100
61	HRC-2	Z	-0.002	-0.002	0 %100
62	HRC-3	Z	-0.000902	-0.000902	0 %100
63	K-1	Z	-0.004	-0.004	0 %100
64	K-2	Z	-0.004	-0.004	0 %100
65	K-3	Z	-0.004	-0.004	0 %100
66	MP-1	Z	-0.003	-0.003	0 %100
67	MP-2	Z	-0.003	-0.003	0 %100
68	MP-3	Z	-0.003	-0.003	0 %100
69	MP-4	Z	-0.003	-0.003	0 %100
70	MP-5	Z	-0.003	-0.003	0 %100
71	MP-6	Z	-0.003	-0.003	0 %100
72	MP-7	Z	-0.003	-0.003	0 %100
73	MP-8	Z	-0.003	-0.003	0 %100
74	MP-9	Z	-0.003	-0.003	0 %100
75	MP-10	Z	-0.003	-0.003	0 %100
76	MP-11	Z	-0.003	-0.003	0 %100



Company : Tower Engineering Professionals, Inc.
 Designer : MSD
 Job Number : TEP No. 83631.424428
 Model Name : 302538 - Parsonage Hill Aka Wallin

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Member Distributed Loads (BLC 21 : 45 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]
77	MP-12	Z	-0.003	-0.003	0 %100
78	SA-1	Z	-0.001	-0.001	0 %100
79	SA-2	Z	-0.003	-0.003	0 %100
80	SA-3	Z	-0.004	-0.004	0 %100
81	SF1-HR	Z	-0.000739	-0.000739	0 %100
82	SF1-TH	Z	-0.000823	-0.000823	0 %100
83	SF2-HR	Z	-0.003	-0.003	0 %100
84	SF2-TH	Z	-0.003	-0.003	0 %100

Member Distributed Loads (BLC 22 : 60 Wind - Ice)

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]
1	CP-1	X	-0.004	-0.004	0 %100
2	CP-2	X	-0.002	-0.002	0 %100
3	CP-3	X	-0.002	-0.002	0 %100
4	FF-HR	X	-0.001	-0.001	0 %100
5	FF-TH	X	-0.001	-0.001	0 %100
6	GSI-1A	X	-0.003	-0.003	0 %100
7	GSI-1B	X	-0.003	-0.003	0 %100
8	GSI-2A	X	-0.002	-0.002	0 %100
9	GSI-2B	X	-0.002	-0.002	0 %100
10	GSI-3A	X	-0.001	-0.001	0 %100
11	GSI-3B	X	-0.001	-0.001	0 %100
12	GSIP-1A	X	-0.001	-0.001	0 %100
13	GSIP-1B	X	-0.001	-0.001	0 %100
14	GSIP-2A	X	-0.001	-0.001	0 %100
15	GSIP-2B	X	-0.002	-0.002	0 %100
16	GSIP-3A	X	-0.002	-0.002	0 %100
17	GSIP-3B	X	-0.001	-0.001	0 %100
18	HRC-1	X	-0.002	-0.002	0 %100
19	HRC-2	X	-0.001	-0.001	0 %100
20	HRC-3	X	-0.001	-0.001	0 %100
21	K-1	X	-0.002	-0.002	0 %100
22	K-2	X	-0.002	-0.002	0 %100
23	K-3	X	-0.002	-0.002	0 %100
24	MP-1	X	-0.002	-0.002	0 %100
25	MP-2	X	-0.002	-0.002	0 %100
26	MP-3	X	-0.002	-0.002	0 %100
27	MP-4	X	-0.002	-0.002	0 %100
28	MP-5	X	-0.002	-0.002	0 %100
29	MP-6	X	-0.002	-0.002	0 %100
30	MP-7	X	-0.002	-0.002	0 %100
31	MP-8	X	-0.002	-0.002	0 %100
32	MP-9	X	-0.002	-0.002	0 %100
33	MP-10	X	-0.002	-0.002	0 %100
34	MP-11	X	-0.002	-0.002	0 %100
35	MP-12	X	-0.002	-0.002	0 %100
36	SA-1	X	0	0	0 %100
37	SA-2	X	-0.002	-0.002	0 %100
38	SA-3	X	-0.003	-0.003	0 %100
39	SF1-HR	X	-0.000817	-0.000817	0 %100
40	SF1-TH	X	-0.000931	-0.000931	0 %100
41	SF2-HR	X	-0.002	-0.002	0 %100
42	SF2-TH	X	-0.002	-0.002	0 %100
43	CP-1	Z	-0.007	-0.007	0 %100
44	CP-2	Z	-0.003	-0.003	0 %100
45	CP-3	Z	-0.004	-0.004	0 %100



Company : Tower Engineering Professionals, Inc.
 Designer : MSD
 Job Number : TEP No. 83631.424428
 Model Name : 302538 - Parsonage Hill Aka Wallin

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Member Distributed Loads (BLC 22 : 60 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
46	FF-HR	Z	-0.02	-0.02	0	%100
47	FF-TH	Z	-0.02	-0.02	0	%100
48	GSI-1A	Z	-0.05	-0.05	0	%100
49	GSI-1B	Z	-0.05	-0.05	0	%100
50	GSI-2A	Z	-0.02	-0.02	0	%100
51	GSI-2B	Z	-0.02	-0.02	0	%100
52	GSI-3A	Z	-0.03	-0.03	0	%100
53	GSI-3B	Z	-0.03	-0.03	0	%100
54	GSIP-1A	Z	-0.02	-0.02	0	%100
55	GSIP-1B	Z	-0.02	-0.02	0	%100
56	GSIP-2A	Z	-0.02	-0.02	0	%100
57	GSIP-2B	Z	-0.04	-0.04	0	%100
58	GSIP-3A	Z	-0.04	-0.04	0	%100
59	GSIP-3B	Z	-0.02	-0.02	0	%100
60	HRC-1	Z	-0.04	-0.04	0	%100
61	HRC-2	Z	-0.02	-0.02	0	%100
62	HRC-3	Z	-0.02	-0.02	0	%100
63	K-1	Z	-0.05	-0.05	0	%100
64	K-2	Z	-0.05	-0.05	0	%100
65	K-3	Z	-0.05	-0.05	0	%100
66	MP-1	Z	-0.03	-0.03	0	%100
67	MP-2	Z	-0.03	-0.03	0	%100
68	MP-3	Z	-0.03	-0.03	0	%100
69	MP-4	Z	-0.03	-0.03	0	%100
70	MP-5	Z	-0.03	-0.03	0	%100
71	MP-6	Z	-0.03	-0.03	0	%100
72	MP-7	Z	-0.03	-0.03	0	%100
73	MP-8	Z	-0.03	-0.03	0	%100
74	MP-9	Z	-0.03	-0.03	0	%100
75	MP-10	Z	-0.03	-0.03	0	%100
76	MP-11	Z	-0.03	-0.03	0	%100
77	MP-12	Z	-0.03	-0.03	0	%100
78	SA-1	Z	0	0	0	%100
79	SA-2	Z	-0.05	-0.05	0	%100
80	SA-3	Z	-0.04	-0.04	0	%100
81	SF1-HR	Z	-0.02	-0.02	0	%100
82	SF1-TH	Z	-0.02	-0.02	0	%100
83	SF2-HR	Z	-0.03	-0.03	0	%100
84	SF2-TH	Z	-0.04	-0.04	0	%100

Member Distributed Loads (BLC 23 : 90 Wind - Ice)

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	CP-1	Z	-0.07	-0.07	0	%100
2	CP-2	Z	0	0	0	%100
3	CP-3	Z	-0.07	-0.07	0	%100
4	FF-HR	Z	0	0	0	%100
5	FF-TH	Z	0	0	0	%100
6	GSI-1A	Z	-0.05	-0.05	0	%100
7	GSI-1B	Z	-0.05	-0.05	0	%100
8	GSI-2A	Z	0	0	0	%100
9	GSI-2B	Z	0	0	0	%100
10	GSI-3A	Z	-0.05	-0.05	0	%100
11	GSI-3B	Z	-0.05	-0.05	0	%100
12	GSIP-1A	Z	0	0	0	%100
13	GSIP-1B	Z	-0.04	-0.04	0	%100
14	GSIP-2A	Z	-0.04	-0.04	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : MSD
 Job Number : TEP No. 83631.424428
 Model Name : 302538 - Parsonage Hill Aka Wallin

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Member Distributed Loads (BLC 23 : 90 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
15	GSIP-2B	Z	-0.04	-0.04	0	%100
16	GSIP-3A	Z	-0.04	-0.04	0	%100
17	GSIP-3B	Z	0	0	0	%100
18	HRC-1	Z	-0.04	-0.04	0	%100
19	HRC-2	Z	0	0	0	%100
20	HRC-3	Z	-0.04	-0.04	0	%100
21	K-1	Z	-0.05	-0.05	0	%100
22	K-2	Z	-0.05	-0.05	0	%100
23	K-3	Z	-0.05	-0.05	0	%100
24	MP-1	Z	-0.04	-0.04	0	%100
25	MP-2	Z	-0.04	-0.04	0	%100
26	MP-3	Z	-0.04	-0.04	0	%100
27	MP-4	Z	-0.04	-0.04	0	%100
28	MP-5	Z	-0.04	-0.04	0	%100
29	MP-6	Z	-0.04	-0.04	0	%100
30	MP-7	Z	-0.04	-0.04	0	%100
31	MP-8	Z	-0.04	-0.04	0	%100
32	MP-9	Z	-0.04	-0.04	0	%100
33	MP-10	Z	-0.04	-0.04	0	%100
34	MP-11	Z	-0.04	-0.04	0	%100
35	MP-12	Z	-0.04	-0.04	0	%100
36	SA-1	Z	-0.03	-0.03	0	%100
37	SA-2	Z	-0.07	-0.07	0	%100
38	SA-3	Z	-0.03	-0.03	0	%100
39	SF1-HR	Z	-0.03	-0.03	0	%100
40	SF1-TH	Z	-0.04	-0.04	0	%100
41	SF2-HR	Z	-0.03	-0.03	0	%100
42	SF2-TH	Z	-0.04	-0.04	0	%100

Member Distributed Loads (BLC 24 : 120 Wind - Ice)

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	CP-1	X	.002	.002	0	%100
2	CP-2	X	.002	.002	0	%100
3	CP-3	X	.004	.004	0	%100
4	FF-HR	X	.001	.001	0	%100
5	FF-TH	X	.001	.001	0	%100
6	GSI-1A	X	.001	.001	0	%100
7	GSI-1B	X	.001	.001	0	%100
8	GSI-2A	X	.002	.002	0	%100
9	GSI-2B	X	.002	.002	0	%100
10	GSI-3A	X	.003	.003	0	%100
11	GSI-3B	X	.003	.003	0	%100
12	GSIP-1A	X	.001	.001	0	%100
13	GSIP-1B	X	.002	.002	0	%100
14	GSIP-2A	X	.002	.002	0	%100
15	GSIP-2B	X	.001	.001	0	%100
16	GSIP-3A	X	.001	.001	0	%100
17	GSIP-3B	X	.001	.001	0	%100
18	HRC-1	X	.001	.001	0	%100
19	HRC-2	X	.001	.001	0	%100
20	HRC-3	X	.002	.002	0	%100
21	K-1	X	.002	.002	0	%100
22	K-2	X	.002	.002	0	%100
23	K-3	X	.002	.002	0	%100
24	MP-1	X	.002	.002	0	%100
25	MP-2	X	.002	.002	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : MSD
 Job Number : TEP No. 83631.424428
 Model Name : 302538 - Parsonage Hill Aka Wallin

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Member Distributed Loads (BLC 24 : 120 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
26	MP-3	X	.002	.002	0	%100
27	MP-4	X	.002	.002	0	%100
28	MP-5	X	.002	.002	0	%100
29	MP-6	X	.002	.002	0	%100
30	MP-7	X	.002	.002	0	%100
31	MP-8	X	.002	.002	0	%100
32	MP-9	X	.002	.002	0	%100
33	MP-10	X	.002	.002	0	%100
34	MP-11	X	.002	.002	0	%100
35	MP-12	X	.002	.002	0	%100
36	SA-1	X	.003	.003	0	%100
37	SA-2	X	.002	.002	0	%100
38	SA-3	X	0	0	0	%100
39	SF1-HR	X	.002	.002	0	%100
40	SF1-TH	X	.002	.002	0	%100
41	SF2-HR	X	.000817	.000817	0	%100
42	SF2-TH	X	.000931	.000931	0	%100
43	CP-1	Z	-.004	-.004	0	%100
44	CP-2	Z	-.003	-.003	0	%100
45	CP-3	Z	-.007	-.007	0	%100
46	FF-HR	Z	-.002	-.002	0	%100
47	FF-TH	Z	-.002	-.002	0	%100
48	GSI-1A	Z	-.003	-.003	0	%100
49	GSI-1B	Z	-.003	-.003	0	%100
50	GSI-2A	Z	-.002	-.002	0	%100
51	GSI-2B	Z	-.002	-.002	0	%100
52	GSI-3A	Z	-.005	-.005	0	%100
53	GSI-3B	Z	-.005	-.005	0	%100
54	GSIP-1A	Z	-.002	-.002	0	%100
55	GSIP-1B	Z	-.004	-.004	0	%100
56	GSIP-2A	Z	-.004	-.004	0	%100
57	GSIP-2B	Z	-.002	-.002	0	%100
58	GSIP-3A	Z	-.002	-.002	0	%100
59	GSIP-3B	Z	-.002	-.002	0	%100
60	HRC-1	Z	-.002	-.002	0	%100
61	HRC-2	Z	-.002	-.002	0	%100
62	HRC-3	Z	-.004	-.004	0	%100
63	K-1	Z	-.005	-.005	0	%100
64	K-2	Z	-.005	-.005	0	%100
65	K-3	Z	-.005	-.005	0	%100
66	MP-1	Z	-.003	-.003	0	%100
67	MP-2	Z	-.003	-.003	0	%100
68	MP-3	Z	-.003	-.003	0	%100
69	MP-4	Z	-.003	-.003	0	%100
70	MP-5	Z	-.003	-.003	0	%100
71	MP-6	Z	-.003	-.003	0	%100
72	MP-7	Z	-.003	-.003	0	%100
73	MP-8	Z	-.003	-.003	0	%100
74	MP-9	Z	-.003	-.003	0	%100
75	MP-10	Z	-.003	-.003	0	%100
76	MP-11	Z	-.003	-.003	0	%100
77	MP-12	Z	-.003	-.003	0	%100
78	SA-1	Z	-.004	-.004	0	%100
79	SA-2	Z	-.005	-.005	0	%100
80	SA-3	Z	0	0	0	%100
81	SF1-HR	Z	-.003	-.003	0	%100
82	SF1-TH	Z	-.004	-.004	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : MSD
 Job Number : TEP No. 83631.424428
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Member Distributed Loads (BLC 24 : 120 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
83	SF2-HR	Z	-.002	-.002	0	%100
84	SF2-TH	Z	-.002	-.002	0	%100

Member Distributed Loads (BLC 25 : 135 Wind - Ice)

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	CP-1	X	.002	.002	0	%100
2	CP-2	X	.004	.004	0	%100
3	CP-3	X	.006	.006	0	%100
4	FF-HR	X	.002	.002	0	%100
5	FF-TH	X	.002	.002	0	%100
6	GSI-1A	X	.001	.001	0	%100
7	GSI-1B	X	.001	.001	0	%100
8	GSI-2A	X	.003	.003	0	%100
9	GSI-2B	X	.003	.003	0	%100
10	GSI-3A	X	.004	.004	0	%100
11	GSI-3B	X	.004	.004	0	%100
12	GSIP-1A	X	.002	.002	0	%100
13	GSIP-1B	X	.003	.003	0	%100
14	GSIP-2A	X	.003	.003	0	%100
15	GSIP-2B	X	.000796	.000796	0	%100
16	GSIP-3A	X	.000796	.000796	0	%100
17	GSIP-3B	X	.002	.002	0	%100
18	HRC-1	X	.000888	.000888	0	%100
19	HRC-2	X	.002	.002	0	%100
20	HRC-3	X	.003	.003	0	%100
21	K-1	X	.003	.003	0	%100
22	K-2	X	.003	.003	0	%100
23	K-3	X	.003	.003	0	%100
24	MP-1	X	.002	.002	0	%100
25	MP-2	X	.002	.002	0	%100
26	MP-3	X	.002	.002	0	%100
27	MP-4	X	.002	.002	0	%100
28	MP-5	X	.002	.002	0	%100
29	MP-6	X	.002	.002	0	%100
30	MP-7	X	.002	.002	0	%100
31	MP-8	X	.002	.002	0	%100
32	MP-9	X	.002	.002	0	%100
33	MP-10	X	.002	.002	0	%100
34	MP-11	X	.002	.002	0	%100
35	MP-12	X	.002	.002	0	%100
36	SA-1	X	.004	.004	0	%100
37	SA-2	X	.003	.003	0	%100
38	SA-3	X	.001	.001	0	%100
39	SF1-HR	X	.002	.002	0	%100
40	SF1-TH	X	.003	.003	0	%100
41	SF2-HR	X	.000598	.000598	0	%100
42	SF2-TH	X	.000682	.000682	0	%100
43	CP-1	Z	-.002	-.002	0	%100
44	CP-2	Z	-.004	-.004	0	%100
45	CP-3	Z	-.006	-.006	0	%100
46	FF-HR	Z	-.002	-.002	0	%100
47	FF-TH	Z	-.002	-.002	0	%100
48	GSI-1A	Z	-.001	-.001	0	%100
49	GSI-1B	Z	-.001	-.001	0	%100
50	GSI-2A	Z	-.003	-.003	0	%100
51	GSI-2B	Z	-.003	-.003	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : MSD
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Member Distributed Loads (BLC 25 : 135 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
52	GSI-3A	Z	-0.04	-0.04	0	%100
53	GSI-3B	Z	-0.04	-0.04	0	%100
54	GSIP-1A	Z	-0.02	-0.02	0	%100
55	GSIP-1B	Z	-0.03	-0.03	0	%100
56	GSIP-2A	Z	-0.03	-0.03	0	%100
57	GSIP-2B	Z	-0.00878	-0.00878	0	%100
58	GSIP-3A	Z	-0.00877	-0.00877	0	%100
59	GSIP-3B	Z	-0.02	-0.02	0	%100
60	HRC-1	Z	-0.00902	-0.00902	0	%100
61	HRC-2	Z	-0.02	-0.02	0	%100
62	HRC-3	Z	-0.03	-0.03	0	%100
63	K-1	Z	-0.04	-0.04	0	%100
64	K-2	Z	-0.04	-0.04	0	%100
65	K-3	Z	-0.04	-0.04	0	%100
66	MP-1	Z	-0.03	-0.03	0	%100
67	MP-2	Z	-0.03	-0.03	0	%100
68	MP-3	Z	-0.03	-0.03	0	%100
69	MP-4	Z	-0.03	-0.03	0	%100
70	MP-5	Z	-0.03	-0.03	0	%100
71	MP-6	Z	-0.03	-0.03	0	%100
72	MP-7	Z	-0.03	-0.03	0	%100
73	MP-8	Z	-0.03	-0.03	0	%100
74	MP-9	Z	-0.03	-0.03	0	%100
75	MP-10	Z	-0.03	-0.03	0	%100
76	MP-11	Z	-0.03	-0.03	0	%100
77	MP-12	Z	-0.03	-0.03	0	%100
78	SA-1	Z	-0.04	-0.04	0	%100
79	SA-2	Z	-0.03	-0.03	0	%100
80	SA-3	Z	-0.01	-0.01	0	%100
81	SF1-HR	Z	-0.03	-0.03	0	%100
82	SF1-TH	Z	-0.03	-0.03	0	%100
83	SF2-HR	Z	-0.00739	-0.00739	0	%100
84	SF2-TH	Z	-0.00823	-0.00823	0	%100

Member Distributed Loads (BLC 26 : 150 Wind - Ice)

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	CP-1	X	0	0	0	%100
2	CP-2	X	0.06	0.06	0	%100
3	CP-3	X	0.06	0.06	0	%100
4	FF-HR	X	0.03	0.03	0	%100
5	FF-TH	X	0.04	0.04	0	%100
6	GSI-1A	X	0	0	0	%100
7	GSI-1B	X	0	0	0	%100
8	GSI-2A	X	0.05	0.05	0	%100
9	GSI-2B	X	0.05	0.05	0	%100
10	GSI-3A	X	0.04	0.04	0	%100
11	GSI-3B	X	0.04	0.04	0	%100
12	GSIP-1A	X	0.04	0.04	0	%100
13	GSIP-1B	X	0.03	0.03	0	%100
14	GSIP-2A	X	0.03	0.03	0	%100
15	GSIP-2B	X	0	0	0	%100
16	GSIP-3A	X	0	0	0	%100
17	GSIP-3B	X	0.04	0.04	0	%100
18	HRC-1	X	0	0	0	%100
19	HRC-2	X	0.04	0.04	0	%100
20	HRC-3	X	0.04	0.04	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : MSD
 Job Number : TEP No. 83631.424428
 Model Name : 302538 - Parsonage Hill Aka Wallin

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Member Distributed Loads (BLC 26 : 150 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
21	K-1	X	0.04	0.04	0	%100
22	K-2	X	0.04	0.04	0	%100
23	K-3	X	0.04	0.04	0	%100
24	MP-1	X	0.03	0.03	0	%100
25	MP-2	X	0.03	0.03	0	%100
26	MP-3	X	0.03	0.03	0	%100
27	MP-4	X	0.03	0.03	0	%100
28	MP-5	X	0.03	0.03	0	%100
29	MP-6	X	0.03	0.03	0	%100
30	MP-7	X	0.03	0.03	0	%100
31	MP-8	X	0.03	0.03	0	%100
32	MP-9	X	0.03	0.03	0	%100
33	MP-10	X	0.03	0.03	0	%100
34	MP-11	X	0.03	0.03	0	%100
35	MP-12	X	0.03	0.03	0	%100
36	SA-1	X	0.06	0.06	0	%100
37	SA-2	X	0.02	0.02	0	%100
38	SA-3	X	0.03	0.03	0	%100
39	SF1-HR	X	0.02	0.02	0	%100
40	SF1-TH	X	0.03	0.03	0	%100
41	SF2-HR	X	0	0	0	%100
42	SF2-TH	X	0	0	0	%100
43	CP-1	Z	0	0	0	%100
44	CP-2	Z	-0.03	-0.03	0	%100
45	CP-3	Z	-0.04	-0.04	0	%100
46	FF-HR	Z	-0.02	-0.02	0	%100
47	FF-TH	Z	-0.02	-0.02	0	%100
48	GSI-1A	Z	0	0	0	%100
49	GSI-1B	Z	0	0	0	%100
50	GSI-2A	Z	-0.02	-0.02	0	%100
51	GSI-2B	Z	-0.02	-0.02	0	%100
52	GSI-3A	Z	-0.03	-0.03	0	%100
53	GSI-3B	Z	-0.03	-0.03	0	%100
54	GSIP-1A	Z	-0.02	-0.02	0	%100
55	GSIP-1B	Z	-0.02	-0.02	0	%100
56	GSIP-2A	Z	-0.02	-0.02	0	%100
57	GSIP-2B	Z	0	0	0	%100
58	GSIP-3A	Z	0	0	0	%100
59	GSIP-3B	Z	-0.02	-0.02	0	%100
60	HRC-1	Z	0	0	0	%100
61	HRC-2	Z	-0.02	-0.02	0	%100
62	HRC-3	Z	-0.02	-0.02	0	%100
63	K-1	Z	-0.03	-0.03	0	%100
64	K-2	Z	-0.03	-0.03	0	%100
65	K-3	Z	-0.03	-0.03	0	%100
66	MP-1	Z	-0.02	-0.02	0	%100
67	MP-2	Z	-0.02	-0.02	0	%100
68	MP-3	Z	-0.02	-0.02	0	%100
69	MP-4	Z	-0.02	-0.02	0	%100
70	MP-5	Z	-0.02	-0.02	0	%100
71	MP-6	Z	-0.02	-0.02	0	%100
72	MP-7	Z	-0.02	-0.02	0	%100
73	MP-8	Z	-0.02	-0.02	0	%100
74	MP-9	Z	-0.02	-0.02	0	%100
75	MP-10	Z	-0.02	-0.02	0	%100
76	MP-11	Z	-0.02	-0.02	0	%100
77	MP-12	Z	-0.02	-0.02	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : MSD
 Job Number : TEP No. 83631.424428
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Member Distributed Loads (BLC 26 : 150 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
78	SA-1	Z	-.003	-.003	0	%100
79	SA-2	Z	-.002	-.002	0	%100
80	SA-3	Z	-.001	-.001	0	%100
81	SF1-HR	Z	-.002	-.002	0	%100
82	SF1-TH	Z	-.002	-.002	0	%100
83	SF2-HR	Z	0	0	0	%100
84	SF2-TH	Z	0	0	0	%100

Member Distributed Loads (BLC 27 : 180 Wind - Ice)

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	CP-1	X	.008	.008	0	%100
2	CP-2	X	.008	.008	0	%100
3	CP-3	X	.008	.008	0	%100
4	FF-HR	X	.004	.004	0	%100
5	FF-TH	X	.005	.005	0	%100
6	GSI-1A	X	.006	.006	0	%100
7	GSI-1B	X	.006	.006	0	%100
8	GSI-2A	X	.006	.006	0	%100
9	GSI-2B	X	.006	.006	0	%100
10	GSI-3A	X	.006	.006	0	%100
11	GSI-3B	X	.006	.006	0	%100
12	GSIP-1A	X	.005	.005	0	%100
13	GSIP-1B	X	.004	.004	0	%100
14	GSIP-2A	X	.004	.004	0	%100
15	GSIP-2B	X	.004	.004	0	%100
16	GSIP-3A	X	.004	.004	0	%100
17	GSIP-3B	X	.005	.005	0	%100
18	HRC-1	X	.005	.005	0	%100
19	HRC-2	X	.005	.005	0	%100
20	HRC-3	X	.005	.005	0	%100
21	K-1	X	.005	.005	0	%100
22	K-2	X	.005	.005	0	%100
23	K-3	X	.005	.005	0	%100
24	MP-1	X	.003	.003	0	%100
25	MP-2	X	.003	.003	0	%100
26	MP-3	X	.003	.003	0	%100
27	MP-4	X	.003	.003	0	%100
28	MP-5	X	.003	.003	0	%100
29	MP-6	X	.003	.003	0	%100
30	MP-7	X	.003	.003	0	%100
31	MP-8	X	.003	.003	0	%100
32	MP-9	X	.003	.003	0	%100
33	MP-10	X	.003	.003	0	%100
34	MP-11	X	.003	.003	0	%100
35	MP-12	X	.003	.003	0	%100
36	SA-1	X	.006	.006	0	%100
37	SA-2	X	.005	.005	0	%100
38	SA-3	X	.006	.006	0	%100
39	SF1-HR	X	.003	.003	0	%100
40	SF1-TH	X	.004	.004	0	%100
41	SF2-HR	X	.003	.003	0	%100
42	SF2-TH	X	.004	.004	0	%100

Member Distributed Loads (BLC 28 : 210 Wind - Ice)

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	CP-1	X	.006	.006	0	%100



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Member Distributed Loads (BLC 28 : 210 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
2	CP-2	X	.006	.006	0	%100
3	CP-3	X	0	0	0	%100
4	FF-HR	X	.003	.003	0	%100
5	FF-TH	X	.004	.004	0	%100
6	GSI-1A	X	.004	.004	0	%100
7	GSI-1B	X	.004	.004	0	%100
8	GSI-2A	X	.005	.005	0	%100
9	GSI-2B	X	.005	.005	0	%100
10	GSI-3A	X	0	0	0	%100
11	GSI-3B	X	0	0	0	%100
12	GSIP-1A	X	.004	.004	0	%100
13	GSIP-1B	X	0	0	0	%100
14	GSIP-2A	X	0	0	0	%100
15	GSIP-2B	X	.003	.003	0	%100
16	GSIP-3A	X	.003	.003	0	%100
17	GSIP-3B	X	.004	.004	0	%100
18	HRC-1	X	.004	.004	0	%100
19	HRC-2	X	.004	.004	0	%100
20	HRC-3	X	0	0	0	%100
21	K-1	X	.004	.004	0	%100
22	K-2	X	.004	.004	0	%100
23	K-3	X	.004	.004	0	%100
24	MP-1	X	.003	.003	0	%100
25	MP-2	X	.003	.003	0	%100
26	MP-3	X	.003	.003	0	%100
27	MP-4	X	.003	.003	0	%100
28	MP-5	X	.003	.003	0	%100
29	MP-6	X	.003	.003	0	%100
30	MP-7	X	.003	.003	0	%100
31	MP-8	X	.003	.003	0	%100
32	MP-9	X	.003	.003	0	%100
33	MP-10	X	.003	.003	0	%100
34	MP-11	X	.003	.003	0	%100
35	MP-12	X	.003	.003	0	%100
36	SA-1	X	.003	.003	0	%100
37	SA-2	X	.002	.002	0	%100
38	SA-3	X	.006	.006	0	%100
39	SF1-HR	X	0	0	0	%100
40	SF1-TH	X	0	0	0	%100
41	SF2-HR	X	.002	.002	0	%100
42	SF2-TH	X	.003	.003	0	%100
43	CP-1	Z	.004	.004	0	%100
44	CP-2	Z	.003	.003	0	%100
45	CP-3	Z	0	0	0	%100
46	FF-HR	Z	.002	.002	0	%100
47	FF-TH	Z	.002	.002	0	%100
48	GSI-1A	Z	.003	.003	0	%100
49	GSI-1B	Z	.003	.003	0	%100
50	GSI-2A	Z	.002	.002	0	%100
51	GSI-2B	Z	.002	.002	0	%100
52	GSI-3A	Z	0	0	0	%100
53	GSI-3B	Z	0	0	0	%100
54	GSIP-1A	Z	.002	.002	0	%100
55	GSIP-1B	Z	0	0	0	%100
56	GSIP-2A	Z	0	0	0	%100
57	GSIP-2B	Z	.002	.002	0	%100
58	GSIP-3A	Z	.002	.002	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : MSD
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Member Distributed Loads (BLC 28 : 210 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
59	GSIP-3B	Z	.002	.002	0	%100
60	HRC-1	Z	.002	.002	0	%100
61	HRC-2	Z	.002	.002	0	%100
62	HRC-3	Z	0	0	0	%100
63	K-1	Z	.003	.003	0	%100
64	K-2	Z	.003	.003	0	%100
65	K-3	Z	.003	.003	0	%100
66	MP-1	Z	.002	.002	0	%100
67	MP-2	Z	.002	.002	0	%100
68	MP-3	Z	.002	.002	0	%100
69	MP-4	Z	.002	.002	0	%100
70	MP-5	Z	.002	.002	0	%100
71	MP-6	Z	.002	.002	0	%100
72	MP-7	Z	.002	.002	0	%100
73	MP-8	Z	.002	.002	0	%100
74	MP-9	Z	.002	.002	0	%100
75	MP-10	Z	.002	.002	0	%100
76	MP-11	Z	.002	.002	0	%100
77	MP-12	Z	.002	.002	0	%100
78	SA-1	Z	.001	.001	0	%100
79	SA-2	Z	.002	.002	0	%100
80	SA-3	Z	.003	.003	0	%100
81	SF1-HR	Z	0	0	0	%100
82	SF1-TH	Z	0	0	0	%100
83	SF2-HR	Z	.002	.002	0	%100
84	SF2-TH	Z	.002	.002	0	%100

Member Distributed Loads (BLC 29 : 225 Wind - Ice)

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	CP-1	X	.006	.006	0	%100
2	CP-2	X	.004	.004	0	%100
3	CP-3	X	.002	.002	0	%100
4	FF-HR	X	.002	.002	0	%100
5	FF-TH	X	.002	.002	0	%100
6	GSI-1A	X	.004	.004	0	%100
7	GSI-1B	X	.004	.004	0	%100
8	GSI-2A	X	.003	.003	0	%100
9	GSI-2B	X	.003	.003	0	%100
10	GSI-3A	X	.001	.001	0	%100
11	GSI-3B	X	.001	.001	0	%100
12	GSIP-1A	X	.002	.002	0	%100
13	GSIP-1B	X	.000795	.000795	0	%100
14	GSIP-2A	X	.000796	.000796	0	%100
15	GSIP-2B	X	.003	.003	0	%100
16	GSIP-3A	X	.003	.003	0	%100
17	GSIP-3B	X	.002	.002	0	%100
18	HRC-1	X	.003	.003	0	%100
19	HRC-2	X	.002	.002	0	%100
20	HRC-3	X	.000888	.000888	0	%100
21	K-1	X	.003	.003	0	%100
22	K-2	X	.003	.003	0	%100
23	K-3	X	.003	.003	0	%100
24	MP-1	X	.002	.002	0	%100
25	MP-2	X	.002	.002	0	%100
26	MP-3	X	.002	.002	0	%100
27	MP-4	X	.002	.002	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : MSD
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Member Distributed Loads (BLC 29 : 225 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
28	MP-5	X	.002	.002	0	%100
29	MP-6	X	.002	.002	0	%100
30	MP-7	X	.002	.002	0	%100
31	MP-8	X	.002	.002	0	%100
32	MP-9	X	.002	.002	0	%100
33	MP-10	X	.002	.002	0	%100
34	MP-11	X	.002	.002	0	%100
35	MP-12	X	.002	.002	0	%100
36	SA-1	X	.001	.001	0	%100
37	SA-2	X	.003	.003	0	%100
38	SA-3	X	.004	.004	0	%100
39	SF1-HR	X	.000598	.000598	0	%100
40	SF1-TH	X	.000682	.000682	0	%100
41	SF2-HR	X	.002	.002	0	%100
42	SF2-TH	X	.003	.003	0	%100
43	CP-1	Z	.006	.006	0	%100
44	CP-2	Z	.004	.004	0	%100
45	CP-3	Z	.002	.002	0	%100
46	FF-HR	Z	.002	.002	0	%100
47	FF-TH	Z	.002	.002	0	%100
48	GSI-1A	Z	.004	.004	0	%100
49	GSI-1B	Z	.004	.004	0	%100
50	GSI-2A	Z	.003	.003	0	%100
51	GSI-2B	Z	.003	.003	0	%100
52	GSI-3A	Z	.001	.001	0	%100
53	GSI-3B	Z	.001	.001	0	%100
54	GSIP-1A	Z	.002	.002	0	%100
55	GSIP-1B	Z	.000877	.000877	0	%100
56	GSIP-2A	Z	.000877	.000877	0	%100
57	GSIP-2B	Z	.003	.003	0	%100
58	GSIP-3A	Z	.003	.003	0	%100
59	GSIP-3B	Z	.002	.002	0	%100
60	HRC-1	Z	.003	.003	0	%100
61	HRC-2	Z	.002	.002	0	%100
62	HRC-3	Z	.000902	.000902	0	%100
63	K-1	Z	.004	.004	0	%100
64	K-2	Z	.004	.004	0	%100
65	K-3	Z	.004	.004	0	%100
66	MP-1	Z	.003	.003	0	%100
67	MP-2	Z	.003	.003	0	%100
68	MP-3	Z	.003	.003	0	%100
69	MP-4	Z	.003	.003	0	%100
70	MP-5	Z	.003	.003	0	%100
71	MP-6	Z	.003	.003	0	%100
72	MP-7	Z	.003	.003	0	%100
73	MP-8	Z	.003	.003	0	%100
74	MP-9	Z	.003	.003	0	%100
75	MP-10	Z	.003	.003	0	%100
76	MP-11	Z	.003	.003	0	%100
77	MP-12	Z	.003	.003	0	%100
78	SA-1	Z	.001	.001	0	%100
79	SA-2	Z	.003	.003	0	%100
80	SA-3	Z	.004	.004	0	%100
81	SF1-HR	Z	.000739	.000739	0	%100
82	SF1-TH	Z	.000823	.000823	0	%100
83	SF2-HR	Z	.003	.003	0	%100
84	SF2-TH	Z	.003	.003	0	%100



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Member Distributed Loads (BLC 30 : 240 Wind - Ice)

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft....]	Start Location[ft.%]	End Location[ft.%]	
1	CP-1	X	.004	.004	0	%100
2	CP-2	X	.002	.002	0	%100
3	CP-3	X	.002	.002	0	%100
4	FF-HR	X	.001	.001	0	%100
5	FF-TH	X	.001	.001	0	%100
6	GSI-1A	X	.003	.003	0	%100
7	GSI-1B	X	.003	.003	0	%100
8	GSI-2A	X	.002	.002	0	%100
9	GSI-2B	X	.002	.002	0	%100
10	GSI-3A	X	.001	.001	0	%100
11	GSI-3B	X	.001	.001	0	%100
12	GSIP-1A	X	.001	.001	0	%100
13	GSIP-1B	X	.001	.001	0	%100
14	GSIP-2A	X	.001	.001	0	%100
15	GSIP-2B	X	.002	.002	0	%100
16	GSIP-3A	X	.002	.002	0	%100
17	GSIP-3B	X	.001	.001	0	%100
18	HRC-1	X	.002	.002	0	%100
19	HRC-2	X	.001	.001	0	%100
20	HRC-3	X	.001	.001	0	%100
21	K-1	X	.002	.002	0	%100
22	K-2	X	.002	.002	0	%100
23	K-3	X	.002	.002	0	%100
24	MP-1	X	.002	.002	0	%100
25	MP-2	X	.002	.002	0	%100
26	MP-3	X	.002	.002	0	%100
27	MP-4	X	.002	.002	0	%100
28	MP-5	X	.002	.002	0	%100
29	MP-6	X	.002	.002	0	%100
30	MP-7	X	.002	.002	0	%100
31	MP-8	X	.002	.002	0	%100
32	MP-9	X	.002	.002	0	%100
33	MP-10	X	.002	.002	0	%100
34	MP-11	X	.002	.002	0	%100
35	MP-12	X	.002	.002	0	%100
36	SA-1	X	0	0	0	%100
37	SA-2	X	.002	.002	0	%100
38	SA-3	X	.003	.003	0	%100
39	SF1-HR	X	.000817	.000817	0	%100
40	SF1-TH	X	.000931	.000931	0	%100
41	SF2-HR	X	.002	.002	0	%100
42	SF2-TH	X	.002	.002	0	%100
43	CP-1	Z	.007	.007	0	%100
44	CP-2	Z	.003	.003	0	%100
45	CP-3	Z	.004	.004	0	%100
46	FF-HR	Z	.002	.002	0	%100
47	FF-TH	Z	.002	.002	0	%100
48	GSI-1A	Z	.005	.005	0	%100
49	GSI-1B	Z	.005	.005	0	%100
50	GSI-2A	Z	.002	.002	0	%100
51	GSI-2B	Z	.002	.002	0	%100
52	GSI-3A	Z	.003	.003	0	%100
53	GSI-3B	Z	.003	.003	0	%100
54	GSIP-1A	Z	.002	.002	0	%100
55	GSIP-1B	Z	.002	.002	0	%100
56	GSIP-2A	Z	.002	.002	0	%100
57	GSIP-2B	Z	.004	.004	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : MSD
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Member Distributed Loads (BLC 30 : 240 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft....]	Start Location[ft.%]	End Location[ft.%]	
58	GSIP-3A	Z	.004	.004	0	%100
59	GSIP-3B	Z	.002	.002	0	%100
60	HRC-1	Z	.004	.004	0	%100
61	HRC-2	Z	.002	.002	0	%100
62	HRC-3	Z	.002	.002	0	%100
63	K-1	Z	.005	.005	0	%100
64	K-2	Z	.005	.005	0	%100
65	K-3	Z	.005	.005	0	%100
66	MP-1	Z	.003	.003	0	%100
67	MP-2	Z	.003	.003	0	%100
68	MP-3	Z	.003	.003	0	%100
69	MP-4	Z	.003	.003	0	%100
70	MP-5	Z	.003	.003	0	%100
71	MP-6	Z	.003	.003	0	%100
72	MP-7	Z	.003	.003	0	%100
73	MP-8	Z	.003	.003	0	%100
74	MP-9	Z	.003	.003	0	%100
75	MP-10	Z	.003	.003	0	%100
76	MP-11	Z	.003	.003	0	%100
77	MP-12	Z	.003	.003	0	%100
78	SA-1	Z	0	0	0	%100
79	SA-2	Z	.005	.005	0	%100
80	SA-3	Z	.004	.004	0	%100
81	SF1-HR	Z	.002	.002	0	%100
82	SF1-TH	Z	.002	.002	0	%100
83	SF2-HR	Z	.003	.003	0	%100
84	SF2-TH	Z	.004	.004	0	%100

Member Distributed Loads (BLC 31 : 270 Wind - Ice)

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft....]	Start Location[ft.%]	End Location[ft.%]	
1	CP-1	Z	.007	.007	0	%100
2	CP-2	Z	0	0	0	%100
3	CP-3	Z	.007	.007	0	%100
4	FF-HR	Z	0	0	0	%100
5	FF-TH	Z	0	0	0	%100
6	GSI-1A	Z	.005	.005	0	%100
7	GSI-1B	Z	.005	.005	0	%100
8	GSI-2A	Z	0	0	0	%100
9	GSI-2B	Z	0	0	0	%100
10	GSI-3A	Z	.005	.005	0	%100
11	GSI-3B	Z	.005	.005	0	%100
12	GSIP-1A	Z	0	0	0	%100
13	GSIP-1B	Z	.004	.004	0	%100
14	GSIP-2A	Z	.004	.004	0	%100
15	GSIP-2B	Z	.004	.004	0	%100
16	GSIP-3A	Z	.004	.004	0	%100
17	GSIP-3B	Z	0	0	0	%100
18	HRC-1	Z	.004	.004	0	%100
19	HRC-2	Z	0	0	0	%100
20	HRC-3	Z	.004	.004	0	%100
21	K-1	Z	.005	.005	0	%100
22	K-2	Z	.005	.005	0	%100
23	K-3	Z	.005	.005	0	%100
24	MP-1	Z	.004	.004	0	%100
25	MP-2	Z	.004	.004	0	%100
26	MP-3	Z	.004	.004	0	%100



Member Distributed Loads (BLC 31 : 270 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
27	MP-4	Z	.004	.004	0	%100
28	MP-5	Z	.004	.004	0	%100
29	MP-6	Z	.004	.004	0	%100
30	MP-7	Z	.004	.004	0	%100
31	MP-8	Z	.004	.004	0	%100
32	MP-9	Z	.004	.004	0	%100
33	MP-10	Z	.004	.004	0	%100
34	MP-11	Z	.004	.004	0	%100
35	MP-12	Z	.004	.004	0	%100
36	SA-1	Z	.003	.003	0	%100
37	SA-2	Z	.007	.007	0	%100
38	SA-3	Z	.003	.003	0	%100
39	SF1-HR	Z	.003	.003	0	%100
40	SF1-TH	Z	.004	.004	0	%100
41	SF2-HR	Z	.003	.003	0	%100
42	SF2-TH	Z	.004	.004	0	%100

Member Distributed Loads (BLC 32 : 300 Wind - Ice)

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	CP-1	X	-.002	-.002	0	%100
2	CP-2	X	-.002	-.002	0	%100
3	CP-3	X	-.004	-.004	0	%100
4	FF-HR	X	-.001	-.001	0	%100
5	FF-TH	X	-.001	-.001	0	%100
6	GSI-1A	X	-.001	-.001	0	%100
7	GSI-1B	X	-.001	-.001	0	%100
8	GSI-2A	X	-.002	-.002	0	%100
9	GSI-2B	X	-.002	-.002	0	%100
10	GSI-3A	X	-.003	-.003	0	%100
11	GSI-3B	X	-.003	-.003	0	%100
12	GSIP-1A	X	-.001	-.001	0	%100
13	GSIP-1B	X	-.002	-.002	0	%100
14	GSIP-2A	X	-.002	-.002	0	%100
15	GSIP-2B	X	-.001	-.001	0	%100
16	GSIP-3A	X	-.001	-.001	0	%100
17	GSIP-3B	X	-.001	-.001	0	%100
18	HRC-1	X	-.001	-.001	0	%100
19	HRC-2	X	-.001	-.001	0	%100
20	HRC-3	X	-.002	-.002	0	%100
21	K-1	X	-.002	-.002	0	%100
22	K-2	X	-.002	-.002	0	%100
23	K-3	X	-.002	-.002	0	%100
24	MP-1	X	-.002	-.002	0	%100
25	MP-2	X	-.002	-.002	0	%100
26	MP-3	X	-.002	-.002	0	%100
27	MP-4	X	-.002	-.002	0	%100
28	MP-5	X	-.002	-.002	0	%100
29	MP-6	X	-.002	-.002	0	%100
30	MP-7	X	-.002	-.002	0	%100
31	MP-8	X	-.002	-.002	0	%100
32	MP-9	X	-.002	-.002	0	%100
33	MP-10	X	-.002	-.002	0	%100
34	MP-11	X	-.002	-.002	0	%100
35	MP-12	X	-.002	-.002	0	%100
36	SA-1	X	-.003	-.003	0	%100
37	SA-2	X	-.002	-.002	0	%100



Member Distributed Loads (BLC 32 : 300 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
38	SA-3	X	0	0	0	%100
39	SF1-HR	X	-.002	-.002	0	%100
40	SF1-TH	X	-.002	-.002	0	%100
41	SF2-HR	X	-.000817	-.000817	0	%100
42	SF2-TH	X	-.000931	-.000931	0	%100
43	CP-1	Z	.004	.004	0	%100
44	CP-2	Z	.003	.003	0	%100
45	CP-3	Z	.007	.007	0	%100
46	FF-HR	Z	.002	.002	0	%100
47	FF-TH	Z	.002	.002	0	%100
48	GSI-1A	Z	.003	.003	0	%100
49	GSI-1B	Z	.003	.003	0	%100
50	GSI-2A	Z	.002	.002	0	%100
51	GSI-2B	Z	.002	.002	0	%100
52	GSI-3A	Z	.005	.005	0	%100
53	GSI-3B	Z	.005	.005	0	%100
54	GSIP-1A	Z	.002	.002	0	%100
55	GSIP-1B	Z	.004	.004	0	%100
56	GSIP-2A	Z	.004	.004	0	%100
57	GSIP-2B	Z	.002	.002	0	%100
58	GSIP-3A	Z	.002	.002	0	%100
59	GSIP-3B	Z	.002	.002	0	%100
60	HRC-1	Z	.002	.002	0	%100
61	HRC-2	Z	.002	.002	0	%100
62	HRC-3	Z	.004	.004	0	%100
63	K-1	Z	.005	.005	0	%100
64	K-2	Z	.005	.005	0	%100
65	K-3	Z	.005	.005	0	%100
66	MP-1	Z	.003	.003	0	%100
67	MP-2	Z	.003	.003	0	%100
68	MP-3	Z	.003	.003	0	%100
69	MP-4	Z	.003	.003	0	%100
70	MP-5	Z	.003	.003	0	%100
71	MP-6	Z	.003	.003	0	%100
72	MP-7	Z	.003	.003	0	%100
73	MP-8	Z	.003	.003	0	%100
74	MP-9	Z	.003	.003	0	%100
75	MP-10	Z	.003	.003	0	%100
76	MP-11	Z	.003	.003	0	%100
77	MP-12	Z	.003	.003	0	%100
78	SA-1	Z	.004	.004	0	%100
79	SA-2	Z	.005	.005	0	%100
80	SA-3	Z	0	0	0	%100
81	SF1-HR	Z	.003	.003	0	%100
82	SF1-TH	Z	.004	.004	0	%100
83	SF2-HR	Z	.002	.002	0	%100
84	SF2-TH	Z	.002	.002	0	%100

Member Distributed Loads (BLC 33 : 315 Wind - Ice)

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	CP-1	X	-.002	-.002	0	%100
2	CP-2	X	-.004	-.004	0	%100
3	CP-3	X	-.006	-.006	0	%100
4	FF-HR	X	-.002	-.002	0	%100
5	FF-TH	X	-.002	-.002	0	%100
6	GSI-1A	X	-.001	-.001	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : MSD
 Job Number : TEP No. 83631.424428
 Model Name : 302538 - Parsonage Hill Aka Wallin

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Member Distributed Loads (BLC 33 : 315 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
7	GSI-1B	X	-0.01	-0.01	0	%100
8	GSI-2A	X	-0.003	-0.003	0	%100
9	GSI-2B	X	-0.003	-0.003	0	%100
10	GSI-3A	X	-0.004	-0.004	0	%100
11	GSI-3B	X	-0.004	-0.004	0	%100
12	GSIP-1A	X	-0.002	-0.002	0	%100
13	GSIP-1B	X	-0.003	-0.003	0	%100
14	GSIP-2A	X	-0.003	-0.003	0	%100
15	GSIP-2B	X	-0.00796	-0.00796	0	%100
16	GSIP-3A	X	-0.00796	-0.00796	0	%100
17	GSIP-3B	X	-0.002	-0.002	0	%100
18	HRC-1	X	-0.00888	-0.00888	0	%100
19	HRC-2	X	-0.002	-0.002	0	%100
20	HRC-3	X	-0.003	-0.003	0	%100
21	K-1	X	-0.003	-0.003	0	%100
22	K-2	X	-0.003	-0.003	0	%100
23	K-3	X	-0.003	-0.003	0	%100
24	MP-1	X	-0.002	-0.002	0	%100
25	MP-2	X	-0.002	-0.002	0	%100
26	MP-3	X	-0.002	-0.002	0	%100
27	MP-4	X	-0.002	-0.002	0	%100
28	MP-5	X	-0.002	-0.002	0	%100
29	MP-6	X	-0.002	-0.002	0	%100
30	MP-7	X	-0.002	-0.002	0	%100
31	MP-8	X	-0.002	-0.002	0	%100
32	MP-9	X	-0.002	-0.002	0	%100
33	MP-10	X	-0.002	-0.002	0	%100
34	MP-11	X	-0.002	-0.002	0	%100
35	MP-12	X	-0.002	-0.002	0	%100
36	SA-1	X	-0.004	-0.004	0	%100
37	SA-2	X	-0.003	-0.003	0	%100
38	SA-3	X	-0.001	-0.001	0	%100
39	SF1-HR	X	-0.002	-0.002	0	%100
40	SF1-TH	X	-0.003	-0.003	0	%100
41	SF2-HR	X	-0.00598	-0.00598	0	%100
42	SF2-TH	X	-0.00682	-0.00682	0	%100
43	CP-1	Z	.002	.002	0	%100
44	CP-2	Z	.004	.004	0	%100
45	CP-3	Z	.006	.006	0	%100
46	FF-HR	Z	.002	.002	0	%100
47	FF-TH	Z	.002	.002	0	%100
48	GSI-1A	Z	.001	.001	0	%100
49	GSI-1B	Z	.001	.001	0	%100
50	GSI-2A	Z	.003	.003	0	%100
51	GSI-2B	Z	.003	.003	0	%100
52	GSI-3A	Z	.004	.004	0	%100
53	GSI-3B	Z	.004	.004	0	%100
54	GSIP-1A	Z	.002	.002	0	%100
55	GSIP-1B	Z	.003	.003	0	%100
56	GSIP-2A	Z	.003	.003	0	%100
57	GSIP-2B	Z	.000878	.000878	0	%100
58	GSIP-3A	Z	.000877	.000877	0	%100
59	GSIP-3B	Z	.002	.002	0	%100
60	HRC-1	Z	.000902	.000902	0	%100
61	HRC-2	Z	.002	.002	0	%100
62	HRC-3	Z	.003	.003	0	%100
63	K-1	Z	.004	.004	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : MSD
 Job Number : TEP No. 83631.424428
 Model Name : 302538 - Parsonage Hill Aka Wallin

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Member Distributed Loads (BLC 33 : 315 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
64	K-2	Z	.004	.004	0	%100
65	K-3	Z	.004	.004	0	%100
66	MP-1	Z	.003	.003	0	%100
67	MP-2	Z	.003	.003	0	%100
68	MP-3	Z	.003	.003	0	%100
69	MP-4	Z	.003	.003	0	%100
70	MP-5	Z	.003	.003	0	%100
71	MP-6	Z	.003	.003	0	%100
72	MP-7	Z	.003	.003	0	%100
73	MP-8	Z	.003	.003	0	%100
74	MP-9	Z	.003	.003	0	%100
75	MP-10	Z	.003	.003	0	%100
76	MP-11	Z	.003	.003	0	%100
77	MP-12	Z	.003	.003	0	%100
78	SA-1	Z	.004	.004	0	%100
79	SA-2	Z	.003	.003	0	%100
80	SA-3	Z	.001	.001	0	%100
81	SF1-HR	Z	.003	.003	0	%100
82	SF1-TH	Z	.003	.003	0	%100
83	SF2-HR	Z	.000739	.000739	0	%100
84	SF2-TH	Z	.000823	.000823	0	%100

Member Distributed Loads (BLC 34 : 330 Wind - Ice)

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	CP-1	X	0	0	0	%100
2	CP-2	X	-0.006	-0.006	0	%100
3	CP-3	X	-0.006	-0.006	0	%100
4	FF-HR	X	-0.003	-0.003	0	%100
5	FF-TH	X	-0.004	-0.004	0	%100
6	GSI-1A	X	0	0	0	%100
7	GSI-1B	X	0	0	0	%100
8	GSI-2A	X	-0.005	-0.005	0	%100
9	GSI-2B	X	-0.005	-0.005	0	%100
10	GSI-3A	X	-0.004	-0.004	0	%100
11	GSI-3B	X	-0.004	-0.004	0	%100
12	GSIP-1A	X	-0.004	-0.004	0	%100
13	GSIP-1B	X	-0.003	-0.003	0	%100
14	GSIP-2A	X	-0.003	-0.003	0	%100
15	GSIP-2B	X	0	0	0	%100
16	GSIP-3A	X	0	0	0	%100
17	GSIP-3B	X	-0.004	-0.004	0	%100
18	HRC-1	X	0	0	0	%100
19	HRC-2	X	-0.004	-0.004	0	%100
20	HRC-3	X	-0.004	-0.004	0	%100
21	K-1	X	-0.004	-0.004	0	%100
22	K-2	X	-0.004	-0.004	0	%100
23	K-3	X	-0.004	-0.004	0	%100
24	MP-1	X	-0.003	-0.003	0	%100
25	MP-2	X	-0.003	-0.003	0	%100
26	MP-3	X	-0.003	-0.003	0	%100
27	MP-4	X	-0.003	-0.003	0	%100
28	MP-5	X	-0.003	-0.003	0	%100
29	MP-6	X	-0.003	-0.003	0	%100
30	MP-7	X	-0.003	-0.003	0	%100
31	MP-8	X	-0.003	-0.003	0	%100
32	MP-9	X	-0.003	-0.003	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : MSD
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Member Distributed Loads (BLC 34 : 330 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
33	MP-10	X	-0.003	-0.003	0	%100
34	MP-11	X	-0.003	-0.003	0	%100
35	MP-12	X	-0.003	-0.003	0	%100
36	SA-1	X	-0.006	-0.006	0	%100
37	SA-2	X	-0.002	-0.002	0	%100
38	SA-3	X	-0.003	-0.003	0	%100
39	SF1-HR	X	-0.002	-0.002	0	%100
40	SF1-TH	X	-0.003	-0.003	0	%100
41	SF2-HR	X	0	0	0	%100
42	SF2-TH	X	0	0	0	%100
43	CP-1	Z	0	0	0	%100
44	CP-2	Z	.003	.003	0	%100
45	CP-3	Z	.004	.004	0	%100
46	FF-HR	Z	.002	.002	0	%100
47	FF-TH	Z	.002	.002	0	%100
48	GSI-1A	Z	0	0	0	%100
49	GSI-1B	Z	0	0	0	%100
50	GSI-2A	Z	.002	.002	0	%100
51	GSI-2B	Z	.002	.002	0	%100
52	GSI-3A	Z	.003	.003	0	%100
53	GSI-3B	Z	.003	.003	0	%100
54	GSIP-1A	Z	.002	.002	0	%100
55	GSIP-1B	Z	.002	.002	0	%100
56	GSIP-2A	Z	.002	.002	0	%100
57	GSIP-2B	Z	0	0	0	%100
58	GSIP-3A	Z	0	0	0	%100
59	GSIP-3B	Z	.002	.002	0	%100
60	HRC-1	Z	0	0	0	%100
61	HRC-2	Z	.002	.002	0	%100
62	HRC-3	Z	.002	.002	0	%100
63	K-1	Z	.003	.003	0	%100
64	K-2	Z	.003	.003	0	%100
65	K-3	Z	.003	.003	0	%100
66	MP-1	Z	.002	.002	0	%100
67	MP-2	Z	.002	.002	0	%100
68	MP-3	Z	.002	.002	0	%100
69	MP-4	Z	.002	.002	0	%100
70	MP-5	Z	.002	.002	0	%100
71	MP-6	Z	.002	.002	0	%100
72	MP-7	Z	.002	.002	0	%100
73	MP-8	Z	.002	.002	0	%100
74	MP-9	Z	.002	.002	0	%100
75	MP-10	Z	.002	.002	0	%100
76	MP-11	Z	.002	.002	0	%100
77	MP-12	Z	.002	.002	0	%100
78	SA-1	Z	.003	.003	0	%100
79	SA-2	Z	.002	.002	0	%100
80	SA-3	Z	.001	.001	0	%100
81	SF1-HR	Z	.002	.002	0	%100
82	SF1-TH	Z	.002	.002	0	%100
83	SF2-HR	Z	0	0	0	%100
84	SF2-TH	Z	0	0	0	%100

Member Distributed Loads (BLC 39 : BLC 1 Transient Area Loads)

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	CP-2	Y	-.001	-.001	.41	.623



Company : Tower Engineering Professionals, Inc.
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Member Distributed Loads (BLC 39 : BLC 1 Transient Area Loads) (Continued)

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
2	GSI-2A	Y	-.008	-.008	.536	2.562
3	GSI-2B	Y	-.008	-.008	0	2.027
4	GSIP-2A	Y	-.00017	-.007	.409	1.146
5	GSIP-2A	Y	-.007	-.009	1.146	1.882
6	GSIP-2A	Y	-.009	-.005	1.882	2.618
7	GSIP-2A	Y	-.005	-.004	2.618	3.355
8	GSIP-2A	Y	-.004	-.0007068	3.355	4.091
9	GSIP-2B	Y	-.0007093	-.004	0	.736
10	GSIP-2B	Y	-.004	-.005	.736	1.473
11	GSIP-2B	Y	-.005	-.009	1.473	2.209
12	GSIP-2B	Y	-.009	-.007	2.209	2.946
13	GSIP-2B	Y	-.007	-.00017	2.946	3.682
14	SA-2	Y	-.0003559	-.008	1.556	2.282
15	SA-2	Y	-.008	-.017	2.282	3.009
16	SA-2	Y	-.017	-.015	3.009	3.735
17	SA-2	Y	-.015	-.008	3.735	4.461
18	SA-2	Y	-.008	-.001	4.461	5.187
19	CP-3	Y	-.001	-.001	.411	.623
20	GSI-3A	Y	-.008	-.008	.536	2.562
21	GSI-3B	Y	-.008	-.008	0	2.027
22	GSIP-3A	Y	-.00017	-.007	.409	1.146
23	GSIP-3A	Y	-.007	-.009	1.146	1.882
24	GSIP-3A	Y	-.009	-.005	1.882	2.618
25	GSIP-3A	Y	-.005	-.004	2.618	3.355
26	GSIP-3A	Y	-.004	-.0007068	3.355	4.091
27	GSIP-3B	Y	-.0007068	-.004	0	.736
28	GSIP-3B	Y	-.004	-.005	.736	1.473
29	GSIP-3B	Y	-.005	-.009	1.473	2.209
30	GSIP-3B	Y	-.009	-.007	2.209	2.946
31	GSIP-3B	Y	-.007	-.00017	2.946	3.682
32	SA-3	Y	-.0003559	-.008	1.556	2.282
33	SA-3	Y	-.008	-.017	2.282	3.009
34	SA-3	Y	-.017	-.015	3.009	3.735
35	SA-3	Y	-.015	-.008	3.735	4.461
36	SA-3	Y	-.008	-.001	4.461	5.187
37	CP-1	Y	-.001	-.001	.41	.623
38	GSI-1A	Y	-.008	-.008	.536	2.562
39	GSI-1B	Y	-.008	-.008	0	2.027
40	GSIP-1A	Y	-.00017	-.007	.409	1.146
41	GSIP-1A	Y	-.007	-.009	1.146	1.882
42	GSIP-1A	Y	-.009	-.005	1.882	2.618
43	GSIP-1A	Y	-.005	-.004	2.618	3.355
44	GSIP-1A	Y	-.004	-.0007068	3.355	4.091
45	GSIP-1B	Y	-.0007093	-.004	0	.736
46	GSIP-1B	Y	-.004	-.005	.736	1.473
47	GSIP-1B	Y	-.005	-.009	1.473	2.209
48	GSIP-1B	Y	-.009	-.007	2.209	2.946
49	GSIP-1B	Y	-.007	-.00017	2.946	3.682
50	SA-1	Y	-.0003559	-.008	1.556	2.282
51	SA-1	Y	-.008	-.017	2.282	3.009
52	SA-1	Y	-.017	-.015	3.009	3.735
53	SA-1	Y	-.015	-.008	3.735	4.461
54	SA-1	Y	-.008	-.001	4.461	5.187



Company : Tower Engineering Professionals, Inc.
 Designer : MSD
 Job Number : TEP No. 83631.424428
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June 19, 2020
 3:59 PM
 Checked By: HBC

Member Area Loads (BLC 1 : Dead)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	P6	P7	P8	P5	Y	Two Way	-.012
2	P9	P10	P11	P12	Y	Two Way	-.012
3	P1	P2	P3	P4	Y	Two Way	-.012

Envelope Joint Reactions

	Joint		X [k]	LC	Y [k]	LC	Z [k]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
1	SA-1	max	2.33	4	.699	21	4.058	5	.209	10	1.249	2	.712	24
2		min	-3.475	28	-.226	13	-6.043	29	-.725	34	-1.247	26	-.588	16
3	SA-3	max	2.542	16	.686	31	5.618	23	.566	19	1.277	13	.931	28
4		min	-3.69	24	-.213	7	-3.635	15	-.222	11	-1.274	21	-.586	4
5	SA-2	max	6.182	18	.693	42	1.388	6	.97	22	1.483	7	-.087	17
6		min	-3.89	10	-.172	2	-1.387	14	-.842	14	-1.48	31	-.601	42
7	N100	max	1.829	29	2.701	29	3.168	29	0	8	0	8	0	8
8		min	-.566	5	-.838	5	-.981	5	0	32	0	32	0	32
9	N101	max	.854	10	2.728	34	.036	6	0	22	0	14	0	98
10		min	-3.702	34	-.636	10	-.036	14	0	14	0	22	0	1
11	N102	max	1.807	39	2.663	39	.901	15	0	3	0	3	0	27
12		min	-.52	15	-.772	15	-3.128	39	0	27	0	27	0	3
13	Totals:	max	6.36	18	8.54	49	7.085	22						
14		min	-6.36	10	2.911	83	-7.085	14						

Envelope AISC 15th(360-16): LRFD Steel Code Checks

	Member	Shape	Code Check	Loc[ft]	L_Shea...	Loc[ft]	Dir	LC	phi*Pnc [k]	phi*Pnt [k]	phi*Mn y...	phi*Mn z...	Cb	Eqn
1	MP-3	PIPE 2.0	.627	6	80.136	6		29	16.812	32.13	1.872	1.872	2.265	H1-1b
2	MP-11	PIPE 2.0	.603	6	24.138	6		23	16.812	32.13	1.872	1.872	2.024	H1-1b
3	MP-7	PIPE 2.0	.600	6	20.119	6		18	16.812	32.13	1.872	1.872	1.976	H1-1b
4	HRC-2	L2.5x2.5x4	.580	1.25	80.128	0	y	30	37.734	38.556	1.114	2.537	2.236	H2-1
5	MP-6	PIPE 2.0	.558	2.5	20.111	2.5		21	23.088	32.13	1.872	1.872	1.604	H1-1b
6	MP-10	PIPE 2.0	.558	2.5	24.095	2.5		30	23.088	32.13	1.872	1.872	1.725	H1-1b
7	MP-2	PIPE 2.0	.552	2.5	80.095	2.5		31	23.088	32.13	1.872	1.872	2.165	H1-1b
8	HRC-3	L2.5x2.5x4	.522	1.25	19.115	0	y	20	37.734	38.556	1.114	2.537	2.227	H2-1
9	FF-HR	PIPE 2.0	.515	4.036	80.222	.521		19	1.428	32.13	1.872	1.872	2.979	H1-1b
10	SF1-HR	PIPE 2.0	.509	4.036	19.230	.521		22	1.428	32.13	1.872	1.872	2.953	H1-1b
11	HRC-1	L2.5x2.5x4	.508	1.25	23.104	0	y	25	37.734	38.556	1.114	2.537	2.234	H2-1
12	SF2-HR	PIPE 2.0	.505	4.036	24.246	.521		30	1.428	32.13	1.872	1.872	2.952	H1-1b
13	MP-4	PIPE 2.0	.406	6	22.120	6		24	16.812	32.13	1.872	1.872	2.39	H1-1b
14	MP-1	PIPE 2.0	.399	6	22.148	6		20	16.812	32.13	1.872	1.872	2.246	H1-1b
15	MP-8	PIPE 2.0	.397	6	28.143	6		30	16.812	32.13	1.872	1.872	2.142	H1-1b
16	MP-9	PIPE 2.0	.381	6	28.166	6		30	16.812	32.13	1.872	1.872	2.093	H1-1b
17	MP-5	PIPE 2.0	.379	6	28.130	6		25	16.812	32.13	1.872	1.872	2.066	H1-1b
18	MP-12	PIPE 2.0	.372	6	33.123	6		19	16.812	32.13	1.872	1.872	2.062	H1-1b
19	CP-1	PL6x1/2	.332	.517	21.176	1.034	v	23	86.501	94.5	.984	11.813	1.513	H1-1b
20	CP-3	PL6x1/2	.319	.517	32.180	0	y	29	86.501	94.5	.984	11.813	1.464	H1-1b
21	SF1-TH	PIPE 3.0	.312	4.036	20.139	8.073		22	6.489	65.205	5.749	5.749	2.417	H1-1a
22	CP-2	PL6x1/2	.304	.517	27.192	.517	y	22	86.501	94.5	.984	11.813	1.398	H1-1b
23	FF-TH	PIPE 3.0	.299	4.036	80.123	8.073		18	6.489	65.205	5.749	5.749	2.647	H1-1a
24	SF2-TH	PIPE 3.0	.279	4.036	25.132	8.073		29	6.489	65.205	5.749	5.749	2.6	H1-1a
25	GSIP-1B	L2x2x3	.220	2.046	80.007	4.091	z	23	10.065	22.743	.542	1.079	1.259	H2-1
26	GSIP-1A	L2x2x3	.217	2.003	28.007	4.091	z	18	10.065	22.743	.542	1.076	1.238	H2-1
27	GSIP-3A	L2x2x3	.213	2.046	22.006	4.091	z	28	10.065	22.743	.542	1.079	1.258	H2-1
28	GSIP-3B	L2x2x3	.212	2.088	24.007	4.091	z	18	10.065	22.743	.542	1.076	1.238	H2-1
29	GSIP-2B	L2x2x3	.208	2.046	20.007	0	z	29	10.065	22.743	.542	1.045	1.089	H2-1
30	SA-1	HSS4X4X4	.200	3.404	29.115	0	z	33	97.439	106.155	12.311	12.311	1.792	H1-1b



Company : Tower Engineering Professionals, Inc.
 Designer : MSD
 Job Number : TEP No. 83631.424428
 Model Name : 302538 - Parsonage Hill Aka Wallin

June 19, 2020
 3:59 PM
 Checked By: HBC

Envelope AISC 15th(360-16): LRFD Steel Code Checks (Continued)

	Member	Shape	Code Check	Loc[ft]	L_Shea...	Loc[ft]	Dir	LC	phi*Pnc [k]	phi*Pnt [k]	phi*Mn y...	phi*Mn z...	Cb	Eqn
31	GSIP-2A	L2x2x3	.196	2.003	89.006	0	z	23	10.065	22.743	.542	1.141	1.678	H2-1
32	GSIP-2B	HSS4X4X4	.195	0	84.141	2.242	z	21	104.744	106.155	12.311	12.311	1.694	H1-1b
33	GSIP-3B	HSS4X4X4	.194	0	42.126	2.242	z	26	104.744	106.155	12.311	12.311	1.694	H1-1b
34	SA-3	HSS4X4X4	.193	3.404	23.127	0	z	28	97.439	106.155	12.311	12.311	1.796	H1-1b
35	GSIP-1B	HSS4X4X4	.192	0	45.135	2.242	z	30	104.744	106.155	12.311	12.311	1.694	H1-1b
36	GSIP-2A	HSS4X4X4	.183	2.562	84.147	.32	z	23	104.744	106.155	12.311	12.311	1.695	H1-1b
37	SA-2	HSS4X4X4	.183	3.404	18.141	0	z	22	97.439	106.155	12.311	12.311	1.805	H1-1b
38	GSIP-1A	HSS4X4X4	.180	2.562	44.139	.32	z	19	104.744	106.155	12.311	12.311	1.696	H1-1b
39	GSIP-3A	HSS4X4X4	.179	2.562	89.151	.32	z	29	104.744	106.155	12.311	12.311	1.696	H1-1b
40	K-2	LL2.5x2.5	.103	0	84.006	0	z	22	44.577	58.32	3.954	2.55	1	H1-1b
41	K-1	LL2.5x2.5	.103	4.25	29.005	4.25	z	33	44.577	58.32	3.954	2.55	1	H1-1b
42	K-3	LL2.5x2.5	.101	0	89.006	0	z	27	44.577	58.32	3.954	2.55	1.136	H1-1b

Envelope None Cold Formed Steel Code Checks

	Member	Shape	Code ...	Loc[ft]	LC	Shear ...	Loc[ft]	Dir	LC	Pn[k]	Tn[k]	Mnyy[k-ft]	Mnzz[k-ft]	Cb	Cmy	Crzz	Eqn
No Data to Print ...																	

APPENDIX B
ADDITIONAL CALCULATIONS



Code Revisions:	TIA-222-H	IBC 2015
Tower Type:	Monopole	

Wind Inputs:		
Ult. Wind Velocity:	125.0	mph
Live Load Velocity:	30.0	mph
Ice Wind Velocity:	50.0	mph
Base Ice Thickness:	1.50	inches
Mount Centerline:	141.0	ft
Antenna Centerline:	141.0	ft
Exposure Category:	C	
Topo Category:	1	
Risk Category:	II	
Ground Elevation:	0	ft

Wind Calculations:		
K_{zt} :	1.000	Section 2.6.6
K_d :	0.950	
$K_{z-Mount}$:	1.361	Section 2.6.5.2
$K_{z-Antenna}$:	1.361	Section 2.6.5.2
K_{iz} :	1.156	Section 2.6.10
Ice Thickness:	1.474	inches - Section 2.6.10
$K_{es-wind}$:	0.95	Annex S (Table S-1)
K_{es-ice} :	0.85	Annex S (Table S-1)

Without Ice - (psf)		With Ice - (psf)	
$(q_z G_h)_{Mount}$:	49.12	$(q_z G_h)_{Mount}$:	8.27
$(q_z G_h)_{Antenna}$:	49.12	$(q_z G_h)_{Antenna}$:	8.27



Antenna Loads are Calculated in Accordance with TIA-222-H

Azimuth is the absolute angle measured clockwise from RISA-3D global X-axis.

MFR	Model	Height (in)	Width (in)	Depth (in)	Wt. (lbs)	Azimuth°	Qty	Shape	Member Label	Distance from start node of the member		
										Location #1 (ft,%)	Location #2 (ft,%)	Location #3 (ft,%)
Ericsson	AIR32 B66Aa/B2a	56.60	12.90	8.70	132.20	80.00	1	Flat	MP-1	2.00	6.00	
RFS	APXVAARR24_43-U-NA20	95.90	24.00	8.70	127.90	80.00	1	Flat	MP-2	0.50	7.50	
Ericsson	AIR6449 B41	33.10	20.60	8.60	104.00	80.00	1	Flat	MP-3	3.00	5.00	
Ericsson	AIR21 1.3M, B2A B4P	55.90	12.00	7.80	91.50	80.00	1	Flat	MP-4	2.00	6.00	
Ericsson	Radio 4449 B71+B85	15.00	13.20	10.50	75.00	80.00	1	Flat	MP-2	1.00		
Ericsson	Radio 4415 B25	15.00	13.20	5.40	46.00	80.00	1	Flat	MP-2	3.00		
Ericsson	KRY 112 144/1	6.90	6.10	2.70	11.00	80.00	1	Flat	MP-4	1.00		
Ericsson	AIR32 B66Aa/B2a	56.60	12.90	8.70	132.20	220.00	1	Flat	MP-5	2.00	6.00	
RFS	APXVAARR24_43-U-NA20	95.90	24.00	8.70	127.90	220.00	1	Flat	MP-6	0.50	7.50	
Ericsson	AIR6449 B41	33.10	20.60	8.60	104.00	220.00	1	Flat	MP-7	3.00	5.00	
Ericsson	AIR21 1.3M, B2A B4P	55.90	12.00	7.80	91.50	220.00	1	Flat	MP-8	2.00	6.00	
Ericsson	Radio 4449 B71+B85	15.00	13.20	10.50	75.00	220.00	1	Flat	MP-6	1.00		
Ericsson	Radio 4415 B25	15.00	13.20	5.40	46.00	220.00	1	Flat	MP-6	3.00		
Ericsson	KRY 112 144/1	6.90	6.10	2.70	11.00	220.00	1	Flat	MP-8	1.00		
Ericsson	AIR32 B66Aa/B2a	56.60	12.90	8.70	132.20	310.00	1	Flat	MP-9	2.00	6.00	
RFS	APXVAARR24_43-U-NA20	95.90	24.00	8.70	127.90	310.00	1	Flat	MP-10	0.50	7.50	
Ericsson	AIR6449 B41	33.10	20.60	8.60	104.00	310.00	1	Flat	MP-11	3.00	5.00	
Ericsson	AIR21 1.3M, B2A B4P	55.90	12.00	7.80	91.50	310.00	1	Flat	MP-12	2.00	6.00	
Ericsson	Radio 4449 B71+B85	15.00	13.20	10.50	75.00	310.00	1	Flat	MP-10	1.00		
Ericsson	Radio 4415 B25	15.00	13.20	5.40	46.00	310.00	1	Flat	MP-10	3.00		
Ericsson	KRY 112 144/1	6.90	6.10	2.70	11.00	310.00	1	Flat	MP-12	1.00		



302538 - Parsonage Hill Aka Wallin

TEP No. 83631.424428

Analysis By: MSD 6/19/2020

Checked By: HBC 6/19/2020

Member Forces are Calculated in Accordance with TIA-222-H

Member Name	Wind Proj. (in)	Length (in)	Shape	θ (°)	Perimeter (in)
CP-1	6.000	12.41	Flat	30.00	24.00
CP-2	6.000	12.41	Flat	90.00	24.00
CP-3	6.000	12.41	Flat	-30.00	24.00
FF-HR	2.375	150.00	Round	90.00	7.46
FF-TH	3.500	150.00	Round	90.00	11.00
GSI-1A	4.000	30.75	Flat	30.00	16.00
GSI-1B	4.000	30.75	Flat	30.00	16.00
GSI-2A	4.000	30.75	Flat	90.00	16.00
GSI-2B	4.000	30.75	Flat	90.00	16.00
GSI-3A	4.000	30.75	Flat	-30.00	16.00
GSI-3B	4.000	30.75	Flat	-30.00	16.00
GSIP-1A	2.000	49.09	Flat	90.00	8.00
GSIP-1B	2.000	49.09	Flat	-30.00	8.00
GSIP-2A	2.000	49.09	Flat	-30.00	8.00
GSIP-2B	2.000	49.09	Flat	30.00	8.00
GSIP-3A	2.000	49.09	Flat	30.00	8.00
GSIP-3B	2.000	49.09	Flat	90.00	8.00
HRC-1	2.500	15.00	Flat	30.00	10.00
HRC-2	2.500	15.00	Flat	90.00	10.00
HRC-3	2.500	15.00	Flat	-30.00	10.00
K-1	2.500	51.00	Flat		10.00
K-2	2.500	51.00	Flat		10.00
K-3	2.500	51.00	Flat		10.00
MP-1	2.375	96.00	Round		7.46
MP-2	2.375	96.00	Round		7.46
MP-3	2.375	96.00	Round		7.46
MP-4	2.375	96.00	Round		7.46
MP-5	2.375	96.00	Round		7.46
MP-6	2.375	96.00	Round		7.46
MP-7	2.375	96.00	Round		7.46
MP-8	2.375	96.00	Round		7.46
MP-9	2.375	96.00	Round		7.46
MP-10	2.375	96.00	Round		7.46
MP-11	2.375	96.00	Round		7.46
MP-12	2.375	96.00	Round		7.46
SA-1	4.000	62.25	Flat	-60.00	16.00
SA-2	4.000	62.25	Flat	0.00	16.00
SA-3	4.000	62.25	Flat	60.00	16.00

SF1-HR	2.375	150.00	Round	-30.00	7.46
SF1-TH	3.500	150.00	Round	-30.00	11.00
SF2-HR	2.375	150.00	Round	30.00	7.46
SF2-TH	3.500	150.00	Round	30.00	11.00

Moment Bolt Group - Support Arm

Bolt Size: 0.625 in
 # Bolts: 4
 Plate Width: 8 in
 Plate Height: 8 in
 Bolt H Gap: 6 in
 Bolt V Gap: 6 in
 Plate T: 0.75 in
 Slip Member Ø: N/A in
 Bolt Grade: A325N
 $F_{u_{bolt}}$: 120 ksi
 r: 4.2426 in
 J: 72.00 in⁴/in²
 $Bolt_{Area}$: 0.307 in²
 $Bolt_{Area, Net Tensile}$: 0.226 in²
 Pretension: 19 kips
 Slotted Holes: No

Code Checks Per ANSI/TIA-222-H:		
Bolt Capacity =	13.1%	PASS
Plate Capacity =	14.1%	PASS

Plate Bending

Horizontal Member height: 4 in
 Horizontal Member width: 4 in

Plate Fy: 35 ksi

$M_y = 4.9990$ k - in

$Z_y = 1.125$ in³

$S_y = 0.750$ in³

$M_z = 3.7080$ k - in

$Z_z = 1.125$ in³

$S_z = 0.750$ in³

$\emptyset Mp_y (Z): 35.438$ k - in

$\emptyset Mp_y (S): 37.800$ k - in

$\emptyset Mp_z (Z): 35.438$ k - in

$\emptyset Mp_z (S): 37.800$ k - in

Exhibit F

Power Density/RF Emissions Report

RADIO FREQUENCY EMISSIONS ANALYSIS REPORT
EVALUATION OF HUMAN EXPOSURE POTENTIAL
TO NON-IONIZING EMISSIONS

T-Mobile Existing Facility

Site ID: CT11054A

Wallingford/ I-91/ X15/ G
992 Northrop Road
Wallingford, Connecticut 06492

July 24, 2020

EBI Project Number: 6220003384

Site Compliance Summary	
Compliance Status:	COMPLIANT
Site total MPE% of FCC general population allowable limit:	18.63%

July 24, 2020

T-Mobile

Attn: Jason Overbey, RF Manager

35 Griffin Road South

Bloomfield, Connecticut 06002

Emissions Analysis for Site: CT11054A - Wallingford/ I-91/ X15/ G

EBI Consulting was directed to analyze the proposed T-Mobile facility located at **992 Northrop Road in Wallingford, Connecticut** for the purpose of determining whether the emissions from the Proposed T-Mobile Antenna Installation located on this property are within specified federal limits.

All information used in this report was analyzed as a percentage of current Maximum Permissible Exposure (% MPE) as listed in the FCC OET Bulletin 65 Edition 97-01 and ANSI/IEEE Std C95.1. The FCC regulates Maximum Permissible Exposure in units of microwatts per square centimeter ($\mu\text{W}/\text{cm}^2$). The number of $\mu\text{W}/\text{cm}^2$ calculated at each sample point is called the power density. The exposure limit for power density varies depending upon the frequencies being utilized. Wireless Carriers and Paging Services use different frequency bands each with different exposure limits; therefore, it is necessary to report results and limits in terms of percent MPE rather than power density.

All results were compared to the FCC (Federal Communications Commission) radio frequency exposure rules, 47 CFR 1.1307(b)(1) – (b)(3), to determine compliance with the Maximum Permissible Exposure (MPE) limits for General Population/Uncontrolled environments as defined below.

General population/uncontrolled exposure limits apply to situations in which the general population may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Therefore, members of the general population would always be considered under this category when exposure is not employment related, for example, in the case of a telecommunications tower that exposes persons in a nearby residential area.

Public exposure to radio frequencies is regulated and enforced in units of microwatts per square centimeter ($\mu\text{W}/\text{cm}^2$). The general population exposure limits for the 600 MHz and 700 MHz frequency bands are approximately $400 \mu\text{W}/\text{cm}^2$ and $467 \mu\text{W}/\text{cm}^2$, respectively. The general population exposure limit for the 1900 MHz (PCS), 2100 MHz (AWS) and 11 GHz frequency bands is $1000 \mu\text{W}/\text{cm}^2$. Because each carrier will be using different frequency bands, and each frequency band has different exposure limits, it is necessary to report percent of MPE rather than power density.

Occupational/controlled exposure limits apply to situations in which persons are exposed as a consequence of their employment and in which those persons who are exposed have been made fully aware of the potential for exposure and can exercise control over their exposure. Occupational/controlled exposure limits also apply where exposure is of a transient nature as a result of incidental passage through a location where exposure levels may be above general population/uncontrolled limits (see below), as long as the exposed person has been made fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

Additional details can be found in FCC OET 65.

CALCULATIONS

Calculations were done for the proposed T-Mobile Wireless antenna facility located at 992 Northrop Road in Wallingford, Connecticut using the equipment information listed below. All calculations were performed per the specifications under FCC OET 65. Since T-Mobile is proposing highly focused directional panel antennas, which project most of the emitted energy out toward the horizon, all calculations were performed assuming a lobe representing the maximum gain of the antenna per the antenna manufacturer's supplied specifications, minus 10 dB for directional panel antennas and 20 dB for highly focused parabolic microwave dishes, was focused at the base of the tower. For this report, the sample point is the top of a 6-foot person standing at the base of the tower.

For all calculations, all equipment was calculated using the following assumptions:

- 1) 2 LTE channels (600 MHz Band) were considered for each sector of the proposed installation. These Channels have a transmit power of 30 Watts per Channel.
- 2) 1 NR channel (600 MHz Band) was considered for each sector of the proposed installation. This Channel has a transmit power of 80 Watts.
- 3) 2 LTE channels (700 MHz Band) were considered for each sector of the proposed installation. These Channels have a transmit power of 30 Watts per Channel.
- 4) 4 GSM channels (PCS Band - 1900 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 30 Watts per Channel.
- 5) 4 LTE channels (PCS Band - 1900 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 60 Watts per Channel.

- 6) 2 UMTS channels (AWS Band - 2100 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 30 Watts per Channel.
- 7) 2 LTE channels (AWS Band – 2100 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 60 Watts per Channel.
- 8) 2 LTE channels (BRS Band - 2500 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 40 Watts per Channel.
- 9) 2 NR channels (BRS Band - 2500 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 40 Watts per Channel.
- 10) All radios at the proposed installation were considered to be running at full power and were uncombined in their RF transmissions paths per carrier prescribed configuration. Per FCC OET Bulletin No. 65 - Edition 97-01 recommendations to achieve the maximum anticipated value at each sample point, all power levels emitting from the proposed antenna installation are increased by a factor of 2.56 to account for possible in-phase reflections from the surrounding environment. This is rarely the case, and if so, is never continuous.
- 11) For the following calculations, the sample point was the top of a 6-foot person standing at the base of the tower. The maximum gain of the antenna per the antenna manufacturer's supplied specifications, minus 10 dB for directional panel antennas and 20 dB for highly focused parabolic microwave dishes, was used in this direction. This value is a very conservative estimate as gain reductions for these particular antennas are typically much higher in this direction.
- 12) The antennas used in this modeling are the Ericsson AIR 32 for the 2100 MHz / 1900 MHz channel(s), the RFS APXVAARR24_43-UNA20 for the 700 MHz / 600 MHz / 600 MHz / 1900 MHz channel(s), the Ericsson AIR6449 B4I for the 2500 MHz / 2500 MHz channel(s), the Ericsson AIR 21 for the 1900 MHz / 2100 MHz channel(s) in Sector A, the Ericsson AIR 32 for the 2100 MHz / 1900 MHz channel(s), the RFS APXVAARR24_43-UNA20 for the 700 MHz / 600 MHz / 600 MHz / 1900 MHz channel(s), the Ericsson AIR6449 B4I for the 2500 MHz / 2500 MHz channel(s), the Ericsson AIR 21 for the 1900 MHz / 2100 MHz channel(s) in Sector B, the Ericsson AIR 32 for the 2100 MHz / 1900 MHz channel(s), the RFS APXVAARR24_43-UNA20 for the 700 MHz / 600 MHz / 600 MHz / 1900 MHz channel(s), the Ericsson AIR6449 B4I for the 2500 MHz / 2500 MHz channel(s), the Ericsson AIR 21 for the 1900 MHz / 2100 MHz channel(s) in Sector C. This is based on feedback from the carrier with regard to anticipated antenna selection. All Antenna gain values and associated transmit power levels are shown in the Site Inventory and Power Data table below. The maximum gain of the antenna per the antenna manufacturer's supplied specifications, minus 10 dB for

directional panel antennas and 20 dB for highly focused parabolic microwave dishes, was used for all calculations. This value is a very conservative estimate as gain reductions for these particular antennas are typically much higher in this direction.

- 13) The antenna mounting height centerline of the proposed antennas is 141 feet above ground level (AGL).
- 14) Emissions values for additional carriers were taken from the Connecticut Siting Council active database. Values in this database are provided by the individual carriers themselves.
- 15) All calculations were done with respect to uncontrolled / general population threshold limits.

T-Mobile Site Inventory and Power Data

Sector:	A	Sector:	B	Sector:	C
Antenna #:	1	Antenna #:	1	Antenna #:	1
Make / Model:	Ericsson AIR 32	Make / Model:	Ericsson AIR 32	Make / Model:	Ericsson AIR 32
Frequency Bands:	2100 MHz / 1900 MHz	Frequency Bands:	2100 MHz / 1900 MHz	Frequency Bands:	2100 MHz / 1900 MHz
Gain:	15.85 dBd / 15.35 dBd	Gain:	15.85 dBd / 15.35 dBd	Gain:	15.85 dBd / 15.35 dBd
Height (AGL):	141 feet	Height (AGL):	141 feet	Height (AGL):	141 feet
Channel Count:	4	Channel Count:	4	Channel Count:	4
Total TX Power (W):	240 Watts	Total TX Power (W):	240 Watts	Total TX Power (W):	240 Watts
ERP (W):	8,728.31	ERP (W):	8,728.31	ERP (W):	8,728.31
Antenna A1 MPE %:	1.58%	Antenna B1 MPE %:	1.58%	Antenna C1 MPE %:	1.58%
Antenna #:	2	Antenna #:	2	Antenna #:	2
Make / Model:	RFS APXVAARR24_43-UNA20	Make / Model:	RFS APXVAARR24_43-UNA20	Make / Model:	RFS APXVAARR24_43-UNA20
Frequency Bands:	700 MHz / 600 MHz / 600 MHz / 1900 MHz	Frequency Bands:	700 MHz / 600 MHz / 600 MHz / 1900 MHz	Frequency Bands:	700 MHz / 600 MHz / 600 MHz / 1900 MHz
Gain:	13.35 dBd / 12.95 dBd / 12.95 dBd / 15.65 dBd	Gain:	13.35 dBd / 12.95 dBd / 12.95 dBd / 15.65 dBd	Gain:	13.35 dBd / 12.95 dBd / 12.95 dBd / 15.65 dBd
Height (AGL):	141 feet	Height (AGL):	141 feet	Height (AGL):	141 feet
Channel Count:	7	Channel Count:	7	Channel Count:	7
Total TX Power (W):	320 Watts	Total TX Power (W):	320 Watts	Total TX Power (W):	320 Watts
ERP (W):	8,466.41	ERP (W):	8,466.41	ERP (W):	8,466.41
Antenna A2 MPE %:	2.55%	Antenna B2 MPE %:	2.55%	Antenna C2 MPE %:	2.55%
Antenna #:	3	Antenna #:	3	Antenna #:	3
Make / Model:	Ericsson AIR6449 B41	Make / Model:	Ericsson AIR6449 B41	Make / Model:	Ericsson AIR6449 B41
Frequency Bands:	2500 MHz / 2500 MHz	Frequency Bands:	2500 MHz / 2500 MHz	Frequency Bands:	2500 MHz / 2500 MHz
Gain:	22.05 dBd / 22.05 dBd	Gain:	22.05 dBd / 22.05 dBd	Gain:	22.05 dBd / 22.05 dBd
Height (AGL):	141 feet	Height (AGL):	141 feet	Height (AGL):	141 feet
Channel Count:	4	Channel Count:	4	Channel Count:	4
Total TX Power (W):	160 Watts	Total TX Power (W):	160 Watts	Total TX Power (W):	160 Watts
ERP (W):	25,651.93	ERP (W):	25,651.93	ERP (W):	25,651.93
Antenna A3 MPE %:	4.64%	Antenna B3 MPE %:	4.64%	Antenna C3 MPE %:	4.64%
Antenna #:	4	Antenna #:	4	Antenna #:	4
Make / Model:	Ericsson AIR 21	Make / Model:	Ericsson AIR 21	Make / Model:	Ericsson AIR 21
Frequency Bands:	1900 MHz / 2100 MHz	Frequency Bands:	1900 MHz / 2100 MHz	Frequency Bands:	1900 MHz / 2100 MHz
Gain:	15.35 dBd / 15.35 dBd	Gain:	15.35 dBd / 15.35 dBd	Gain:	15.35 dBd / 15.35 dBd
Height (AGL):	141 feet	Height (AGL):	141 feet	Height (AGL):	141 feet
Channel Count:	6	Channel Count:	6	Channel Count:	6
Total TX Power (W):	180 Watts	Total TX Power (W):	180 Watts	Total TX Power (W):	180 Watts
ERP (W):	6,169.82	ERP (W):	6,169.82	ERP (W):	6,169.82
Antenna A4 MPE %:	1.12%	Antenna B4 MPE %:	1.12%	Antenna C4 MPE %:	1.12%

Site Composite MPE %	
Carrier	MPE %
T-Mobile (Max at Sector A):	9.88%
AT&T	3.97%
Metro PCS	1.24%
Sprint	3.43%
Clearwire	0.11%
Site Total MPE % :	18.63%

T-Mobile MPE % Per Sector	
T-Mobile Sector A Total:	9.88%
T-Mobile Sector B Total:	9.88%
T-Mobile Sector C Total:	9.88%
Site Total MPE % :	18.63%

T-Mobile Maximum MPE Power Values (Sector A)							
T-Mobile Frequency Band / Technology (Sector A)	# Channels	Watts ERP (Per Channel)	Height (feet)	Total Power Density ($\mu\text{W}/\text{cm}^2$)	Frequency (MHz)	Allowable MPE ($\mu\text{W}/\text{cm}^2$)	Calculated % MPE
T-Mobile 2100 MHz LTE	2	2307.55	141.0	8.35	2100 MHz LTE	1000	0.83%
T-Mobile 1900 MHz LTE	2	2056.61	141.0	7.44	1900 MHz LTE	1000	0.74%
T-Mobile 700 MHz LTE	2	648.82	141.0	2.35	700 MHz LTE	467	0.50%
T-Mobile 600 MHz LTE	2	591.73	141.0	2.14	600 MHz LTE	400	0.54%
T-Mobile 600 MHz NR	1	1577.94	141.0	2.85	600 MHz NR	400	0.71%
T-Mobile 1900 MHz LTE	2	2203.69	141.0	7.97	1900 MHz LTE	1000	0.80%
T-Mobile 2500 MHz LTE	2	6412.98	141.0	23.19	2500 MHz LTE	1000	2.32%
T-Mobile 2500 MHz NR	2	6412.98	141.0	23.19	2500 MHz NR	1000	2.32%
T-Mobile 1900 MHz GSM	4	1028.30	141.0	7.44	1900 MHz GSM	1000	0.74%
T-Mobile 2100 MHz UMTS	2	1028.30	141.0	3.72	2100 MHz UMTS	1000	0.37%
						Total:	9.88%

• NOTE: Totals may vary by approximately 0.01% due to summation of remainders in calculations.

Summary

All calculations performed for this analysis yielded results that were **within** the allowable limits for general population exposure to RF Emissions.

The anticipated maximum composite contributions from the T-Mobile facility as well as the site composite emissions value with regards to compliance with FCC's allowable limits for general population exposure to RF Emissions are shown here:

T-Mobile Sector	Power Density Value (%)
Sector A:	9.88%
Sector B:	9.88%
Sector C:	9.88%
T-Mobile Maximum MPE % (Sector A):	9.88%
Site Total:	18.63%
Site Compliance Status:	COMPLIANT

The anticipated composite MPE value for this site assuming all carriers present is **18.63%** of the allowable FCC established general population limit sampled at the ground level. This is based upon values listed in the Connecticut Siting Council database for existing carrier emissions.

FCC guidelines state that if a site is found to be out of compliance (over allowable thresholds), that carriers over a 5% contribution to the composite value will require measures to bring the site into compliance. For this facility, the composite values calculated were well within the allowable 100% threshold standard per the federal government.

Exhibit G

Mailing Receipts/Proof of Notice

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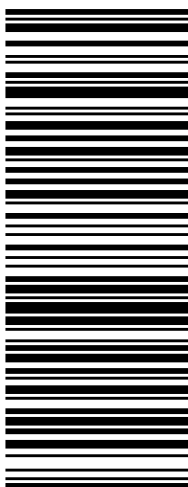

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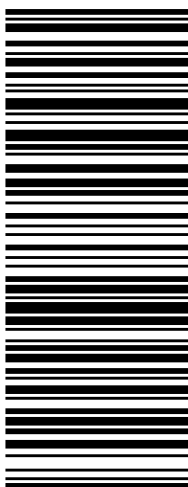

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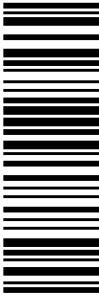
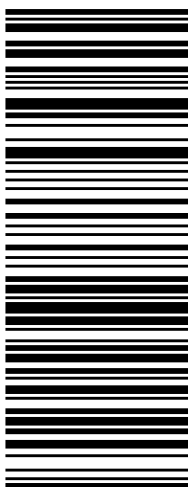

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