Crown Castle
3 Corporate Park Drive, Suite 101
Clifton Park, NY 12065

January 25, 2021

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

RE: **Notice of Exempt Modification for AT&T - 842875**
99 Day Hill Road, Windsor, CT 06095
Latitude: 41° 52′ 16.10″ / Longitude: -72° 40′ 16.00″

Dear Ms. Bachman:

AT&T currently maintains twelve (12) antennas at the 168-foot mount on the existing 168-foot Monopole Tower, located at 99 Day Hill Road, Windsor, CT. The property is owned by the Town of Windsor and the Tower is owned by Crown Castle. AT&T now intends to remove and replace three (3) existing antennas with three (3) new antennas. The new antennas will be installed at the 168-ft level of the tower. AT&T is also proposing tower mount modifications as shown on the enclosed Mount Analysis. This modification includes B2, B5, and B12 hardware that is both 4G(LTE) and 5GNR capable through remote software configuration and either or both services may be turned on or off at various times.

The facility was approved by the Planning and Zoning Commission of the Town of Windsor in Special Use Application #292A on November 30, 2000. This approval included waivers regarding tower height and no conditional statements.

Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies §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 Mr. Peter Souza, Town Manager for the Town of Windsor as both the municipality and property owner, Mr. Eric Barz, Town Planner, and Crown Castle is the tower owner.

1. The proposed modifications will not result in an increase in the height of the existing tower.

2. The proposed modifications will not require the extension of the site boundary.

3. The proposed modification 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 replacement antennas will not increase radio frequency emissions at the facility to a level at or above the Federal Communication Commission safety standard.

5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.

6. The existing structure and its foundation can support the proposed loading.

For the foregoing reasons, AT&T respectfully submits that the proposed modifications to the above-reference telecommunications facility constitutes an exempt modification under R.C.S.A. § 16-50j-72(b)(2). Please send approval/rejection letter to Attn: Anne Marie Zsamba.

Sincerely,

Anne Marie Zsamba
Site Acquisition Specialist
3 Corporate Park Drive, Suite 101
Clifton Park, NY 12065
(201) 236-9224
AnneMarie.Zsamba@crowncastle.com

Attachments

cc:

Peter Souza, Town Manager (*via email only to souza@townofwindsorct.com*)
Town Manager's Office
275 Broad Street
Windsor, CT 06095

Eric Barz, AICP, Town Planner (*via email only to barz@townofwindsorct.com*)
Planning Department
275 Broad Street
Windsor, CT 06095

Crown Castle, Tower Owner

From: Zsamba, Anne Marie
To: "souza@townofwindsorct.com"
Subject: Notice of Exempt Modification - AT&T - 99 Day Hill Road, Windsor - 842875
Date: Monday, January 25, 2021 6:07:00 AM
Attachments: EM-AT&T-99 DAY HILL RD WINDSOR-842875-NOTICE.pdf

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Dear Town Manager Souza:

Attached please find AT&T's exempt modification application that is being submitted to the Connecticut Siting Council today, January 25, 2021.

In light of the present circumstances with Covid-19, The Council has advised that electronic notification of this filing is acceptable. If you could kindly confirm receipt. Thank you.

Best,
Anne Marie Zsamba

ANNE MARIE ZSAMBA
Site Acquisition Specialist
T: (201) 236-9224
M: (518) 350-3639
F: (724) 416-6112

CROWN CASTLE
3 Corporate Park Drive, Suite 101
Clifton Park, NY 12065
CrownCastle.com

From: Zsamba, Anne Marie
To: barz@townofwindsorct.com
Subject: Notice of Exempt Modification - AT&T - 99 Day Hill Road, Windsor - 842875
Date: Monday, January 25, 2021 6:07:00 AM
Attachments: EM-AT&T-99 DAY HILL RD WINDSOR-842875-NOTICE.pdf

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Dear Town Planner Barz:

Attached please find AT&T's exempt modification application that is being submitted to the Connecticut Siting Council today, January 25, 2021.

In light of the present circumstances with Covid-19, The Council has advised that electronic notification of this filing is acceptable. If you could kindly confirm receipt. Thank you.

Best,
Anne Marie Zsamba

ANNE MARIE ZSAMBA
Site Acquisition Specialist
T: (201) 236-9224
M: (518) 350-3639
F: (724) 416-6112

CROWN CASTLE
3 Corporate Park Drive, Suite 101
Clifton Park, NY 12065
CrownCastle.com

Exhibit A

Original Facility Approval

VOL 1249 PG 156

I, Anita M. Mips, Chairperson of the Windsor Town Planning and Zoning Commission, hereby certify that on October 10, 2000 the Planning and Zoning Commission of the Town of Windsor granted approval of Special Use Application #292A for a Wireless Telecommunications Tower with a monopole height of 170 feet plus 20-foot Town public service whip antennas for a total height of 190 feet, under Zoning Regulations Sections 12.2 & 2.2.19E(1).

This approval also includes the following waivers in accordance with Zoning Regulations Section 12.1:

1) **a waiver of the height requirement for 15 feet; and**

2) **a waiver of the fall zone distance requirement for 151 feet in relation to the distance of the tower from Day Hill Road, 380 feet being required, 229 feet being proposed.**

Said Special Use was granted for the property located at: **99 Day Hill Road**

The owner of record of said parcel is: **Town of Windsor**

Dated at Windsor, Connecticut, this 30th **day of November, 2000**

_____ **Chairperson**

Public Act #75-317

Received for Record this _____ day of _____, 2000

_____ **Attest: Town Clerk**

RECEIVED FOR RECORD
WINDSOR TOWN CLERK

00 NOV 30 PM 12:58

VOL 1249 PG 156

BY Kathleen M. Lucia
TOWN CLERK

005545

Exhibit B

Property Card

Property Location 99 DAY HILL RD | Map ID 42/ 108/ 1/D / | Bldg Name | State Use 903W
Vision ID 3481 | Account # 09310.00 | Bldg # 1 | Sec # 1 of 1 | Card # 1 of 1 | Print Date 4/17/2020 9:33:04 AM

CURRENT OWNER

WINDSOR TOWN OF
PUBLIC WORKS GARAGE
275 BROAD STREET

WINDSOR CT 06095

TOPO	UTILITIES	STRT / ROAD	LOCATION
1 Level	2 Public Water	1 Paved	
	3 Public Sewer		
	4 Gas		

SUPPLEMENTAL DATA

Alt Prcl ID	9310	CTRACT	4735.01
INC:		CBLOCK	0
GH		DIST	
		HEART	
2007	1376200	GL YEAR	
GIS ID	9310	Assoc Pid#	

CURRENT ASSESSMENT

Description	Code	Appraised	Assessed
EX COM LN	21	766,900	536,830
EX COM BL	22	1,633,800	1,143,660
EX CM OTB	25	156,300	109,410
Total		2,557,000	1,789,900

6164

WINDSOR, CT

VISION

RECORD OF OWNERSHIP

RECORD OF OWNERSHIP	BK-VOL/PAGE		SALE DATE	Q/U	V/I	SALE PRICE	VC
WINDSOR TOWN OF	0334	0257	11-04-1977			0	

PREVIOUS ASSESSMENTS (HISTORY)

Year	Code	Assessed	Year	Code	Assessed	Year	Code	Assessed
2019	21	536,830	2018	21	536,830	2017	21	536,830
	22	1,143,660		22	1,143,660		22	972,790
	25	109,410		25	109,410		25	103,460
	Total	1789900		Total	1789900		Total	1613080

EXEMPTIONS

Year	Code	Description	Amount
2011	BAAX	MUNICIPAL	0.00
		Total	0.00

OTHER ASSESSMENTS

Code	Description	Number	Amount	Comm Int

This signature acknowledges a visit by a Data Collector or Assessor

APPRAISED VALUE SUMMARY

Appraised Bldg. Value (Card)	1,595,900
Appraised Xf (B) Value (Bldg)	37,900
Appraised Ob (B) Value (Bldg)	156,300
Appraised Land Value (Bldg)	766,900
Special Land Value	0
Total Appraised Parcel Value	2,557,000
Valuation Method	C
Total Appraised Parcel Value	2,557,000

ASSESSING NEIGHBORHOOD

Nbhd	Sub	Nbhd Name	B	Tracing	Batch
300	A				

NOTES

9310.00 .04 AC REMOVED & ASSESSED
0042-0108-0001 D TO AT&T WIRELESS FOR CELL
BTR89-CLERICAL TOWER 10/01/2001
CANOPY ADDED 10-92 ADDED STORAGE SHED 10/04
REF:V1277 P506 7-18-01
ELEC EASEMENT V1277 P511

BUILDING PERMIT RECORD

Permit Id	Issue Date	Type	Description	Amount	Insp Date	% Comp	Date Comp	Comments
E-190462	03-12-2019	FP	Fire Protect		08-16-2019	100	10-01-2019	UPGRADE FIRE ALARM SYS
B041271	08-24-2004	NC	New Construct					STORAGE SHED

VISIT / CHANGE HISTORY

Date	Id	Type	Is	Cd	Purpost/Result
01-18-1990	JM			43	Change - Reinspection Rer
04-13-1988	GH			00	Measur+Listed

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	903W	Municipal MDL-9	NZ		5.000	AC	82,000	1.00000	I	1.00	300	1.600			0		656,000
1	903W	Municipal MDL-9	NZ		6.760	AC	82,000	1.00000	0	0.20		1.000			0		110,900
				Total Card Land Units	11.760	AC	Parcel Total Land Area:			11.7600						Total Land Value	766,900

Property Location 99 DAY HILL RD | Map ID 42/ 108/ 1/D / | Bldg Name | State Use 903W
Vision ID 3481 | Account # 09310.00 | Bldg # 1 | Sec # 1 of 1 | Card # 1 of 1 | Print Date 4/17/2020 9:33:06 AM

CONSTRUCTION DETAIL

Element	Cd	Description
Style:	95	Garage/Office
Model	96	Ind/Comm
Grade	03	Average
Stories:	1	
Occupancy		
Exterior Wall 1	27	Pre-finsh Metl
Exterior Wall 2		
Roof Structure	01	Flat
Roof Cover	09	Enam Mtl Shing
Interior Wall 1	01	Minim/Masonry
Interior Wall 2		
Interior Floor 1	03	Concrete
Interior Floor 2		
Heating Fuel	03	Gas
Heating Type	03	Hot Air-no Duc
AC Type	01	None
Bldg Use	903W	Municipal MDL-96
Total Rooms		
Total Bedrms	00	
Total Baths	2	
Heat/AC	00	None
Frame Type	05	Steel
Baths/Plumbing	02	Average
Ceiling/Wall	04	Ceil & Min Wl
Rooms/Prtns	02	Average
Wall Height	16.00	
% Comn Wall	0.00	
1st Floor Use:	903Z	

CONSTRUCTION DETAIL (CONTINUED)

Element	Cd	Description

MIXED USE

Code	Description	Percentage
903W	Municipal MDL-96	100
		0
		0

COST / MARKET VALUATION

RCN	2,020,095
Year Built	1982
Effective Year Built	
Depreciation Code	A
Remodel Rating	
Year Remodeled	
Depreciation %	21
Functional Obsol	0
External Obsol	0
Trend Factor	1
Condition	
Condition %	
Percent Good	79
Cns Sect Rcnld	1,595,900
Dep % Ovr	
Dep Ovr Comment	
Misc Imp Ovr	
Misc Imp Ovr Comment	
Cost to Cure Ovr	
Cost to Cure Ovr Comment	

BAS
(36,300 sf)

OB - OUTBUILDING & YARD ITEMS(L) / XF - BUILDING EXTRA FEATURES(B)

Code	Descripti	Sub	Sub Ty	L/B	Units	Unit Price	Yr Blt	Cond. Cd	% Gd	Grade	Grade Ad	Appr. V
PAV1	PAVING-			L	20,00	2.50	2003		50		0.00	25,000
FGR1	GARAG			L	3,800	18.00	2003		75		0.00	51,300
CNP2	GOOD			B	2,400	20.00	1997		79		0.00	37,900
SHD1	SHED F			L	10,00	8.00	2004		100		0.00	80,000

BUILDING SUB-AREA SUMMARY SECTION

Code	Description	Living Area	Floor Area	Eff Area	Unit Cost	Undeprec Value
BAS	First Floor	36,300	36,300		55.65	2,020,095
	Ttl Gross Liv / Lease Area	36,300	36,300			2,020,095

Exhibit C

Construction Drawings

AT&T

AT&T SITE NUMBER: CTL05139
AT&T SITE NAME: WINDSORDAY HILL
AT&T FA CODE: 10071331
AT&T PACE NUMBER: MRCTB047595
AT&T PROJECT: LTE 5G/ BWE

BUSINESS UNIT #: 842875
SITE ADDRESS: 99 DAY HILL ROAD, WINDSOR, CT 06095
COUNTY: HARTFORD
SITE TYPE: MONOPOLE
TOWER HEIGHT: 168'-0"

SITE INFORMATION

CROWN CASTLE USA INC. SITE NAME:	WINDSORDAY HILL
SITE ADDRESS:	99 DAY HILL ROAD WINDSOR, CT 06095
COUNTY:	HARTFORD
MAP/PARCEL #:	9310
AREA OF CONSTRUCTION:	EXISTING
LATITUDE:	41.871139
LONGITUDE:	-72.671111
LAT/LONG TYPE:	NAD83
GROUND ELEVATION:	170'-0"
CURRENT ZONING:	NZ
JURISDICTION:	TOWN OF WINDSOR
OCCUPANCY CLASSIFICATION:	U
TYPE OF CONSTRUCTION:	IIB
A.D.A. COMPLIANCE:	FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION
PROPERTY OWNER:	TOWN OF WINDSOR WINDSOR, CT 06095 06095
TOWER OWNER:	CROWN CASTLE USA INC 2000 CORPORATE DRIVE CANONSBURG, PA 15317
CARRIER/APPLICANT:	AT&T TOWER ASSET GROUP 575 MOROSGO DRIVE ATLANTA, GA 30324-3300
ELECTRIC PROVIDER:	NORTHEASR UTILITIES N/A
TELCO PROVIDER:	LIGHTOWER N/A

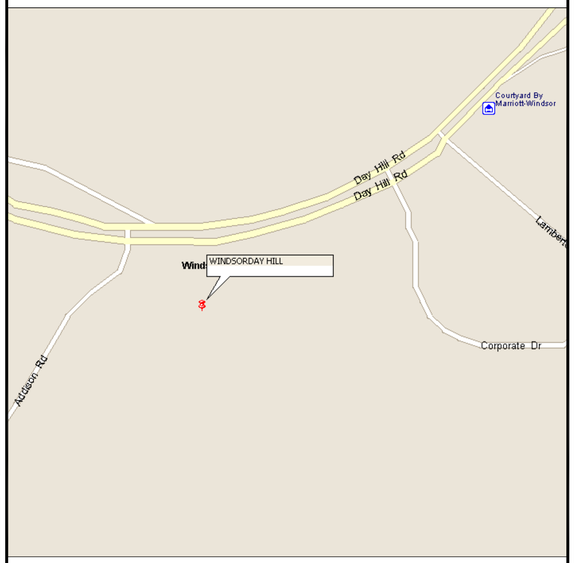
DRAWING INDEX

SHEET #	SHEET DESCRIPTION
T-1	TITLE SHEET
T-2	GENERAL NOTES
C-1.1	SITE PLAN
C-1.2	EXISTING & FINAL EQUIPMENT PLANS
C-2	FINAL ELEVATION & ANTENNA PLANS
C-3	FINAL EQUIPMENT SCHEDULE
C-4	EQUIPMENT MOUNTING DETAILS
C-5	EQUIPMENT SPECS
E-1	POWER ANALYSIS
G-1	GROUNDING SCHEMATIC
G-2	GROUNDING DETAILS
ATTACHED	PLUMBING DIAGRAM
ATTACHED	MOUNT MOD SPEC SHEETS

ALL DRAWINGS CONTAINED HEREIN ARE FORMATTED FOR 24X36. CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

CALL CONNECTICUT ONE CALL
(800) 922-4455 CBYD.COM
CALL 2 WORKING DAYS
BEFORE YOU DIG!

LOCATION MAP



NO SCALE

SITE PHOTO

PROJECT TEAM

A&E FIRM:	B+T GROUP 1717 S BOULDER AVE, SUITE 300 TULSA, OK 74119 JENNY PAUL jpaul@btgrp.com
CROWN CASTLE USA INC. DISTRICT CONTACTS:	3530 TORINGDON WAY, SUITE 300 CHARLOTTE, NC 28277

NOTE:
PRIOR TO ACCESSING/ENTERING THE SITE YOU MUST CONTACT THE CROWN NOC AT (800) 788-7011 & CROWN CONSTRUCTION MANAGER.

PROJECT DESCRIPTION

THE PURPOSE OF THIS PROJECT IS TO ENHANCE BROADBAND CONNECTIVITY AND CAPACITY TO THE EXISTING ELIGIBLE WIRELESS FACILITY.

TOWER SCOPE OF WORK:
- REMOVE (2) CCI PRODUCTS - OPA-65R-LCUU-H6 ANTENNAS
- REMOVE (1) CCI PRODUCTS - OPA-65R-LCUU-H8 ANTENNA
- REMOVE (3) RRUS-32 B2 RADIOs
- REMOVE (3) RRUS-11B12 RADIOs
- REMOVE (6) TPX-070821 TRIPLEXERS
- INSTALL MOUNT MODIFICATIONS PER MOUNT ANALYSIS BY POD GROUP DATED NOVEMBER 03, 2020
- INSTALL (2) CCI - DMP65R-BU6DA ANTENNAS
- INSTALL (1) CCI - DMP65R-BU8DA ANTENNA
- INSTALL (3) ERICSSON - 4449 B5-B12 RADIOs
- INSTALL (3) ERICSSON - 4415 B25 RADIOs
- INSTALL (3) VALMONT - RRUDSM BACK-TO-BACK RRH MOUNTS

GROUND SCOPE OF WORK:
- REMOVE (3) RRUS -11 B5
- INSTALL (1) BB6630

NOTE:
THE POWER DESIGN FOR ANY AC ELECTRICAL POWER CHANGES IS TO BE PERFORMED BY OTHERS AND IS SHOWN HERE FOR REFERENCE PURPOSES ONLY. AT&T IS SOLELY RESPONSIBLE FOR THE ELECTRICAL POWER DESIGN.

APPLICABLE CODES/REFERENCE DOCUMENTS

ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES:

CODE TYPE	CODE
BUILDING	2015 IBC / 2018 CONNECTICUT STATE BUILDING CODE
MECHANICAL	2015 IMC / 2018 CONNECTICUT STATE BUILDING CODE
ELECTRICAL	2017 NEC / 2018 CONNECTICUT STATE BUILDING CODE

REFERENCE DOCUMENTS:

STRUCTURAL ANALYSIS:	CROWN CASTLE
DATED:	11/5/20
MOUNT ANALYSIS:	POD GROUP
DATED:	11/5/20
AC ELECTRICAL POWER DESIGN:	N/A
DATED:	
RFDS REVISION:	3
DATED:	11/06/20
ORDER ID:	517092
REVISION:	0

AT&T
575 MOROSGO DRIVE
ATLANTA, GA 30324-3300

CROWN CASTLE
3530 TORINGDON WAY, SUITE 300
CHARLOTTE, NC 28277

B+T GRP
1717 S. BOULDER
SUITE 300
TULSA, OK 74119
PH: (918) 587-4630
www.btgrp.com

AT&T SITE NUMBER:
CTL05139

BU #: **842875**
WINDSORDAY HILL

99 DAY HILL ROAD
WINDSOR, CT 06095

EXISTING
168'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	11/24/20	LHT	CONSTRUCTION	MTJ
0	12/11/20	MLC	CONSTRUCTION	GEH
1	12/28/20	JJD	CONSTRUCTION	RMC

B&T ENGINEERING, INC.
PEC.0001564
Expires 2/10/21

SHEET NUMBER: T-1
REVISION: 1

CROWN CASTLE USA INC. SITE ACTIVITY REQUIREMENTS:

1. NOTICE TO PROCEED– NO WORK SHALL COMMENCE PRIOR TO CROWN CASTLE USA INC. WRITTEN NOTICE TO PROCEED (NTP) AND THE ISSUANCE OF A PURCHASE ORDER. PRIOR TO ACCESSING/ENTERING THE SITE YOU MUST CONTACT THE CROWN CASTLE USA INC. NOC AT 800–788–7011 & THE CROWN CASTLE USA INC. CONSTRUCTION MANAGER.
2. "LOOK UP" – CROWN CASTLE USA INC. SAFETY CLIMB REQUIREMENT:
   THE INTEGRITY OF THE SAFETY CLIMB AND ALL COMPONENTS OF THE CLIMBING FACILITY SHALL BE CONSIDERED DURING ALL STAGES OF DESIGN, INSTALLATION, AND INSPECTION. TOWER MODIFICATION, MOUNT REINFORCEMENTS, AND/OR EQUIPMENT INSTALLATIONS SHALL NOT COMPROMISE THE INTEGRITY OR FUNCTIONAL USE OF THE SAFETY CLIMB OR ANY COMPONENTS OF THE CLIMBING FACILITY ON THE STRUCTURE. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO: PINCHING OF THE WIRE ROPE, BENDING OF THE WIRE ROPE FROM ITS SUPPORTS, DIRECT CONTACT OR CLOSE PROXIMITY TO THE WIRE ROPE WHICH MAY CAUSE FRICTIONAL WEAR, IMPACT TO THE ANCHORAGE POINTS IN ANY WAY, OR TO IMPEDE/BLOCK ITS INTENDED USE. ANY COMPROMISED SAFETY CLIMB, INCLUDING EXISTING CONDITIONS MUST BE TAGGED OUT AND REPORTED TO YOUR CROWN CASTLE USA INC. POC OR CALL THE NOC TO GENERATE A SAFETY CLIMB MAINTENANCE AND CONTRACTOR NOTICE TICKET.
3. PRIOR TO THE START OF CONSTRUCTION, ALL REQUIRED JURISDICTIONAL PERMITS SHALL BE OBTAINED. THIS INCLUDES, BUT IS NOT LIMITED TO, BUILDING, ELECTRICAL, MECHANICAL, FIRE, FLOOD ZONE, ENVIRONMENTAL, AND ZONING. AFTER ONSITE ACTIVITIES AND CONSTRUCTION ARE COMPLETED, ALL REQUIRED PERMITS SHALL BE SATISFIED AND CLOSED OUT ACCORDING TO LOCAL JURISDICTIONAL REQUIREMENTS.
4. ALL CONSTRUCTION MEANS AND METHODS; INCLUDING BUT NOT LIMITED TO, ERECTION PLANS, RIGGING PLANS, CLIMBING PLANS, AND RESCUE PLANS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR RESPONSIBLE FOR THE EXECUTION OF THE WORK CONTAINED HEREIN, AND SHALL MEET ANSI/ASSE A10.48 (LATEST EDITION); FEDERAL, STATE, AND LOCAL REGULATIONS; AND ANY APPLICABLE INDUSTRY CONSENSUS STANDARDS RELATED TO THE CONSTRUCTION ACTIVITIES BEING PERFORMED. ALL RIGGING PLANS SHALL ADHERE TO ANSI/ASSE A10.48 (LATEST EDITION) AND CROWN CASTLE USA INC. STANDARD CED–STD–10253, INCLUDING THE REQUIRED INVOLVEMENT OF A QUALIFIED ENGINEER FOR CLASS IV CONSTRUCTION, TO CERTIFY THE SUPPORTING STRUCTURE(S) IN ACCORDANCE WITH ANSI/TIA–322 (LATEST EDITION).
5. ALL SITE WORK TO COMPLY WITH QAS–STD–10068 "INSTALLATION STANDARDS FOR CONSTRUCTION ACTIVITIES ON CROWN CASTLE USA INC. TOWER SITE," CED–STD–10294 "STANDARD FOR INSTALLATION OF MOUNTS AND APPURTENANCES," AND LATEST VERSION OF ANSI/TIA–1019–A–2012 "STANDARD FOR INSTALLATION, ALTERATION, AND MAINTENANCE OF ANTENNA SUPPORTING STRUCTURES AND ANTENNAS."
6. IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY CROWN CASTLE USA INC. PRIOR TO PROCEEDING WITH ANY SUCH CHANGE OF INSTALLATION.
7. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
8. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
9. THE CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
10. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY CONTRACTOR. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION B) CONFINED SPACE C) ELECTRICAL SAFETY D) TRENCHING AND EXCAVATION E) CONSTRUCTION SAFETY PROCEDURES.
11. ALL SITE WORK SHALL BE AS INDICATED ON THE STAMPED CONSTRUCTION DRAWINGS AND PROJECT SPECIFICATIONS, LATEST APPROVED REVISION.
12. CONTRACTOR SHALL KEEP THE SITE FREE FROM ACCUMULATING WASTE MATERIAL, DEBRIS, AND TRASH AT THE COMPLETION OF THE WORK. IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
13. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF CONTRACTOR, TOWER OWNER, CROWN CASTLE USA INC., AND/OR LOCAL UTILITIES.
14. THE CONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATION FOR SITE SIGNAGE REQUIRED BY LOCAL JURISDICTION AND SIGNAGE REQUIRED ON INDIVIDUAL PIECES OF EQUIPMENT, ROOMS, AND SHELTERS.
15. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE CARRIER'S EQUIPMENT AND TOWER AREAS.
16. THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
17. THE AREAS OF THE OWNERS PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION AS SPECIFIED ON THE CONSTRUCTION DRAWINGS AND/OR PROJECT SPECIFICATIONS.
18. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.
19. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.
20. CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
21. CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION. TRASH AND DEBRIS SHOULD BE REMOVED FROM SITE ON A DAILY BASIS.
22. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.

GENERAL NOTES:

1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:
   CONTRACTOR: GENERAL CONTRACTOR RESPONSIBLE FOR CONSTRUCTION
   CARRIER: AT&T
   TOWER OWNER: CROWN CASTLE USA INC.
2. THESE DRAWINGS HAVE BEEN PREPARED USING STANDARDS OF PROFESSIONAL CARE AND COMPLETENESS NORMALLY EXERCISED UNDER SIMILAR CIRCUMSTANCES BY REPUTABLE ENGINEERS IN THIS OR SIMILAR LOCALITIES. IT IS ASSUMED THAT THE WORK DEPICTED WILL BE PERFORMED BY AN EXPERIENCED CONTRACTOR AND/OR WORKPEOPLE WHO HAVE A WORKING KNOWLEDGE OF THE APPLICABLE CODE STANDARDS AND REQUIREMENTS AND OF INDUSTRY ACCEPTED STANDARD GOOD PRACTICE. AS NOT EVERY CONDITION OR ELEMENT IS (OR CAN BE) EXPLICITLY SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL USE INDUSTRY ACCEPTED STANDARD GOOD PRACTICE FOR MISCELLANEOUS WORK NOT EXPLICITLY SHOWN.
3. THESE DRAWINGS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE MEANS OR METHODS OF CONSTRUCTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY FOR PROTECTION OF LIFE AND PROPERTY DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, FORMWORK, SHORING, ETC. SITE VISITS BY THE ENGINEER OR HIS REPRESENTATIVE WILL NOT INCLUDE INSPECTION OF THESE ITEMS AND IS FOR STRUCTURAL OBSERVATION OF THE FINISHED STRUCTURE ONLY.
4. NOTES AND DETAILS IN THE CONSTRUCTION DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT, AND/OR AS PROVIDED FOR IN THE CONTRACT DOCUMENTS. WHERE DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL NOTES, AND SPECIFICATIONS, THE GREATER, MORE STRICT REQUIREMENTS, SHALL GOVERN. IF FURTHER CLARIFICATION IS REQUIRED CONTACT THE ENGINEER OF RECORD.
5. SUBSTANTIAL EFFORT HAS BEEN MADE TO PROVIDE ACCURATE DIMENSIONS AND MEASUREMENTS ON THE DRAWINGS TO ASSIST IN THE FABRICATION AND/OR PLACEMENT OF CONSTRUCTION ELEMENTS BUT IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY THE DIMENSIONS, MEASUREMENTS, AND/OR CLEARANCES SHOWN IN THE CONSTRUCTION DRAWINGS PRIOR TO FABRICATION OR CUTTING OF ANY NEW OR EXISTING CONSTRUCTION ELEMENTS. IF IT IS DETERMINED THAT THERE ARE DISCREPANCIES AND/OR CONFLICTS WITH THE CONSTRUCTION DRAWINGS THE ENGINEER OF RECORD IS TO BE NOTIFIED AS SOON AS POSSIBLE.
6. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING CONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CROWN CASTLE.
7. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
8. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
9. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
10. IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE CARRIER AND CROWN CASTLE PRIOR TO PROCEEDING WITH ANY SUCH CHANGE OF INSTALLATION.
11. CONTRACTOR IS TO PERFORM A SITE INVESTIGATION AND IS TO DETERMINE THE BEST ROUTING OF ALL CONDUITS FOR POWER, AND TELCO AND FOR GROUNDING CABLES AS SHOWN IN THE POWER, TELCO, AND GROUNDING PLAN DRAWINGS.
12. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF CROWN CASTLE USA INC.
13. CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
14. CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION. TRASH AND DEBRIS SHOULD BE REMOVED FROM SITE ON A DAILY BASIS.

CONCRETE, FOUNDATIONS, AND REINFORCING STEEL:

1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 336, ASTM A184, ASTM A185 AND THE DESIGN AND CONSTRUCTION SPECIFICATION FOR CAST–IN–PLACE CONCRETE.
2. UNLESS NOTED OTHERWISE, SOIL BEARING PRESSURE USED FOR DESIGN OF SLABS AND FOUNDATIONS IS ASSUMED TO BE 1000 psf.
3. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (f'c) OF 3000 psi AT 28 DAYS, UNLESS NOTED OTHERWISE. NO MORE THAN 90 MINUTES SHALL ELAPSE FROM BATCH TIME TO TIME OF PLACEMENT UNLESS APPROVED BY THE ENGINEER OF RECORD. TEMPERATURE OF CONCRETE SHALL NOT EXCEED 90°f AT TIME OF PLACEMENT.
4. CONCRETE EXPOSED TO FREEZE–THAW CYCLES SHALL CONTAIN AIR ENTRAINING ADMIXTURES. AMOUNT OF AIR ENTRAINMENT TO BE BASED ON SIZE OF AGGREGATE AND F3 CLASS EXPOSURE (VERY SEVERE). CEMENT USED TO BE TYPE II PORTLAND CEMENT WITH A MAXIMUM WATER–TO–CEMENT RATIO (W/C) OF 0.45.
5. ALL STEEL REINFORCING SHALL CONFORM TO ASTM A615. ALL WELDED WIRE FABRIC (WWF) SHALL CONFORM TO ASTM A185. ALL SPLICES SHALL BE CLASS "B" TENSION SPLICES, UNLESS NOTED OTHERWISE. ALL HOOKS SHALL BE STANDARD 90 DEGREE HOOKS, UNLESS NOTED OTHERWISE. YIELD STRENGTH (Fy) OF STANDARD DEFORMED BARS ARE AS FOLLOWS:
   #4 BARS AND SMALLER........40 ksi
   #5 BARS AND LARGER........60 ksi
6. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:
   CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH........3"
   CONCRETE EXPOSED TO EARTH OR WEATHER:
   #6 BARS AND LARGER........2"
   #5 BARS AND SMALLER........1–1/2"
   CONCRETE NOT EXPOSED TO EARTH OR WEATHER:
   SLAB AND WALLS........3/4"
   BEAMS AND COLUMNS........1–1/2"
7. A TOOLED EDGE OR A 3/4" CHAMFER SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNLESS NOTED OTHERWISE, IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.

ELECTRICAL INSTALLATION NOTES:

1. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES/ORDINANCES.
2. CONDUIT ROUTINGS ARE SCHEMATIC. CONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED AND TRIP HAZARDS ARE ELIMINATED.
3. WIRING, RACEWAY AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC.
4. ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC.
   4.1. ALL EQUIPMENT SHALL BEAR THE UNDERWRITERS LABORATORIES LABEL OF APPROVAL, AND SHALL CONFORM TO REQUIREMENT OF THE NATIONAL ELECTRICAL CODE.
   4.2. ALL OVERCURRENT DEVICES SHALL HAVE AN INTERRUPTING CURRENT RATING THAT SHALL BE GREATER THAN THE SHORT CIRCUIT CURRENT TO WHICH THEY ARE SUBJECTED, 22,000 AIC MINIMUM. VERYIFY AVAILABLE SHORT CIRCUIT CURRENT DOES NOT EXCEED THE RATING OF ELECTRICAL EQUIPMENT IN ACCORDANCE WITH ARTICLE 110.24 NEC OR THE MOST CURRENT ADOPTED CODE PRE THE GOVERNING JURISDICTION.
5. EACH END OF EVERY POWER PHASE CONDUCTOR, GROUNDING CONDUCTOR, AND TELCO CONDUCTOR OR CABLE SHALL BE LABELED WITH COLOR–CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2" PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC AND OSHA.
6. ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH LAMICOID TAGS SHOWING THEIR RATED VOLTAGE, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING AND BRANCH CIRCUIT ID NUMBERS (i.e. PANEL BOARD AND CIRCUIT ID'S).
7. PANEL BOARDS (ID NUMBERS) SHALL BE CLEARLY LABELED WITH PLASTIC LABELS.
8. ALL TIE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES.
9. ALL POWER AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE COPPER CONDUCTOR (#14 OR LARGER) WITH TYPE THHW, THWN, THWN–2, XHHW, XHHW–2, THW, THW–2, RHW, OR RHW–2 INSULATION UNLESS OTHERWISE SPECIFIED.
10. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE COPPER CONDUCTOR (#6 OR LARGER) WITH TYPE THHW, THWN, THWN–2, XHHW, XHHW–2, THW, THW–2, RHW, OR RHW–2 INSULATION UNLESS OTHERWISE SPECIFIED.
11. POWER AND CONTROL WIRING IN FLEXIBLE CORD SHALL BE MULTI–CONDUCTOR, TYPE SOOW CORD (#14 OR LARGER) UNLESS OTHERWISE SPECIFIED.
12. POWER AND CONTROL WIRING FOR USE IN CABLE TRAY SHALL BE MULTI–CONDUCTOR, TYPE TC CABLE (#14 OR LARGER), WITH TYPE THHW, THWN, THWN–2, XHHW, XHHW–2, THW, THW–2, RHW, OR RHW–2 INSULATION UNLESS OTHERWISE SPECIFIED.
13. ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP–STYLE, COMPRESSION WIRE LUGS AND WIRE NUTS BY THOMAS AND BETTS (OR EQUAL). LUGS AND WIRE NUTS SHALL BE RATED FOR OPERATION NOT LESS THAN 75° C (90° C IF AVAILABLE).
14. RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND NEC.
15. ELECTRICAL METALLIC TUBING (EMT), INTERMEDIATE METAL CONDUIT (IMC), OR RIGID METAL CONDUIT (RMC) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.
16. ELECTRICAL METALLIC TUBING (EMT) OR METAL–CLAD CABLE (MC) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.
17. SCHEDULE 40 PVC UNDERGROUND ON STRAIGHTS AND SCHEDULE 80 PVC FOR ALL ELBOWS/90s AND ALL APPROVED ABOVE GRADE PVC CONDUIT.
18. LIQUID–TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID–TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.
19. CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION–TYPE AND APPROVED FOR THE LOCATION USED. SET SCREW FITTINGS ARE NOT ACCEPTABLE.
20. CABINETS, BOXES AND WIRE WAYS SHALL BE LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND THE NEC.
21. WIREWAYS SHALL BE METAL WITH AN ENAMEL FINISH AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARDS (WIREMOLD SPECMATE WIREWAY).
22. SLOTTED WIRING DUCT SHALL BE PVC AND INCLUDE COVER (PANDUIT TYPE E OR EQUAL).
23. CONDUITS SHALL BE FASTENED SECURELY IN PLACE WITH APPROVED NON–PERFORATED STRAPS AND HANGERS. EXPLOSIVE DEVICES (i.e. POWDER–ACTUATED) FOR ATTACHING HANGERS TO STRUCTURE WILL NOT BE PERMITTED. CLOSELY FOLLOW THE LINES OF THE STRUCTURE, MAINTAIN CLOSE PROXIMITY TO THE STRUCTURE AND KEEP CONDUITS IN TIGHT ENVELOPES. CHANGES IN DIRECTION TO ROUTE AROUND OBSTACLES SHALL BE MADE WITH CONDUIT OUTLET BODIES. CONDUIT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. PARALLEL AND PERPENDICULAR TO STRUCTURE WALL AND CEILING LINES. ALL CONDUIT SHALL BE FISHED TO CLEAR OBSTRUCTIONS. ENDS OF CONDUITS SHALL BE TEMPORARILY CAPPED FLUSH TO FINISH GRADE TO PREVENT CONCRETE, PLASTER OR DIRT FROM ENTERING. CONDUITS SHALL BE RIGIDLY CLAMPED TO BOXES BY GALVANIZED MALLEABLE IRON BUSHING ON INSIDE AND GALVANIZED MALLEABLE IRON LOCKNUT ON OUTSIDE AND INSIDE.
24. EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES AND PULL BOXES SHALL BE GALVANIZED OR EPOXY–COATED SHEET STEEL. SHALL MEET OR EXCEED UL 50 AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND NEMA 3R (OR BETTER) FOR EXTERIOR LOCATIONS.
25. METAL RECEPTACLE, SWITCH AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY–COATED OR NON–CORRODING; SHALL MEET OR EXCEED UL 514A AND NEMA OS 1 AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND WEATHER PROTECTED (WP OR BETTER) FOR EXTERIOR LOCATIONS.
26. NONMETALLIC RECEPTACLE, SWITCH AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2 (NEWEST REVISION) AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND WEATHER PROTECTED (WP OR BETTER) FOR EXTERIOR LOCATIONS.
27. THE CONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CARRIER AND/OR CROWN CASTLE USA INC. BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.
28. THE CONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD LIFE AND PROPERTY.
29. INSTALL LAMICOID LABEL ON THE METER CENTER TO SHOW "AT&T".
30. ALL EMPTY/SPARE CONDUITS THAT ARE INSTALLED ARE TO HAVE A METERED MULE TAPE PULL CORD INSTALLED.

CONDUCTOR COLOR CODE		
SYSTEM	CONDUCTOR	COLOR
120/240V, 1Ø	A PHASE	BLACK
	B PHASE	RED
	NEUTRAL	WHITE
	GROUND	GREEN
120/208V, 3Ø	A PHASE	BLACK
	B PHASE	RED
	C PHASE	BLUE
	NEUTRAL	WHITE
	GROUND	GREEN
277/480V, 3Ø	A PHASE	BROWN
	B PHASE	ORANGE OR PURPLE
	C PHASE	YELLOW
	NEUTRAL	GREY
	GROUND	GREEN
DC VOLTAGE	POS (+)	RED**
	NEG (–)	BLACK**

* SEE NEC 210.5(C)(1) AND (2)
** POLARITY MARKED AT TERMINATION

APWA UNIFORM COLOR CODE:

WHITE	PROPOSED EXCAVATION
PINK	TEMPORARY SURVEY MARKINGS
RED	ELECTRIC POWER LINES, CABLES, CONDUIT, AND LIGHTING CABLES
YELLOW	GAS, OIL, STEAM, PETROLEUM, OR GASEOUS MATERIALS
ORANGE	COMMUNICATION, ALARM OR SIGNAL LINES, CABLES, OR CONDUIT AND TRAFFIC LOOPS
BLUE	POTABLE WATER
PURPLE	RECLAIMED WATER, IRRIGATION, AND SLURRY LINES
GREEN	SEWERS AND DRAIN LINES

ABBREVIATIONS:

ANT	ANTENNA
(E)	EXISTING
FIF	FACILITY INTERFACE FRAME
GEN	GENERATOR
GPS	GLOBAL POSITIONING SYSTEM
GSM	GLOBAL SYSTEM FOR MOBILE
LTE	LONG TERM EVOLUTION
MGB	MASTER GROUND BAR
MW	MICROWAVE
(N)	NEW
NEC	NATIONAL ELECTRIC CODE
(P)	PROPOSED
PP	POWER PLANT
QTY	QUANTITY
RECT	RECTIFIER
RBS	RADIO BASE STATION
RET	REMOTE ELECTRIC TILT
RFDS	RADIO FREQUENCY DATA SHEET
RRH	REMOTE RADIO HEAD
RRU	REMOTE RADIO UNIT
SIAD	SMART INTEGRATED DEVICE
TMA	TOWER MOUNTED AMPLIFIER
TYP	TYPICAL
UMTS	UNIVERSAL MOBILE TELECOMMUNICATIONS SYSTEM
W.P.	WORK POINT

GREENFIELD GROUNDING NOTES:

1. ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION AND AC POWER GES'S) SHALL BE BONDED TOGETHER AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.
2. THE CONTRACTOR SHALL PERFORM IEEE FALL–OF–POTENTAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR GROUND ELECTRODE SYSTEMS, THE CONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.
3. THE CONTRACTOR IS RESPONSIBLE FOR PROPERLY SEQUENCING GROUNDING AND UNDERGROUND CONDUIT INSTALLATION AS TO PREVENT ANY LOSS OF CONTINUITY IN THE GROUNDING SYSTEM OR DAMAGE TO THE CONDUIT AND PROVIDE TESTING RESULTS.
4. METAL CONDUIT AND TRAY SHALL BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH #6 COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.
5. METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPMENT.
6. EACH CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, #6 STRANDED COPPER OR LARGER FOR INDOOR BTS; #2 BARE SOLID TINNED COPPER FOR OUTDOOR BTS.
7. CONNECTIONS TO THE GROUND BUS SHALL NOT BE DOUBLED UP OR STACKED BACK TO BACK CONNECTIONS ON OPPOSITE SIDE OF THE GROUND BUS ARE PERMITTED.
8. ALL EXTERIOR GROUND CONDUCTORS BETWEEN EQUIPMENT/GROUND BARS AND THE GROUND RING SHALL BE #2 SOLID TINNED COPPER UNLESS OTHERWISE INDICATED.
9. ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
10. USE OF 90° BENDS IN THE PROTECTION GROUNDING CONDUCTORS SHALL BE AVOIDED WHEN 45° BENDS CAN BE ADEQUATELY SUPPORTED.
11. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
12. ALL GROUND CONNECTIONS ABOVE GRADE (INTERIOR AND EXTERIOR) SHALL BE FORMED USING HIGH PRESS CRIMPS.
13. COMPRESSION GROUND CONNECTIONS MAY BE REPLACED BY EXOTHERMIC WELD CONNECTIONS.
14. ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO THE BRIDGE AND THE TOWER GROUND BAR.
15. APPROVED ANTIOXIDANT COATINGS (i.e. CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
16. ALL EXTERIOR GROUND CONNECTIONS SHALL BE COATED WITH A CORROSION RESISTANT MATERIAL.
17. MISCELLANEOUS ELECTRICAL AND NON–ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.
18. BOND ALL METALLIC OBJECTS WITHIN 6 ft OF MAIN GROUND RING WITH (1) #2 BARE SOLID TINNED COPPER GROUND CONDUCTOR.
19. GROUND CONDUCTORS USED FOR THE FACILITY GROUNDING AND LIGHTNING PROTECTION SYSTEMS SHALL NOT BE ROUTED THROUGH METALLIC OBJECTS THAT FORM A RING AROUND THE CONDUCTOR, SUCH AS METALLIC CONDUITS, METAL SUPPORT CLIPS OR SLEEVES THROUGH WALLS OR FLOORS. WHEN IT IS REQUIRED TO BE HOUSED IN CONDUIT TO MEET CODE REQUIREMENTS OR LOCAL CONDITIONS, NON–METALLIC MATERIAL SUCH AS PVC CONDUIT SHALL BE USED. WHERE USE OF METAL CONDUIT IS UNAVOIDABLE (i.e., NONMETALLIC CONDUIT PROHIBITED BY LOCAL CODE) THE GROUND CONDUCTOR SHALL BE BONDED TO EACH END OF THE METAL CONDUIT.
20. ALL GROUNDS THAT TRANSITION FROM BELOW GRADE TO ABOVE GRADE MUST BE #2 BARE SOLID TINNED COPPER IN 3/4" NON–METALLIC, FLEXIBLE CONDUIT FROM 24" BELOW GRADE TO WITHIN 3" TO 6" OF CAD–WELD TERMINATION POINT. THE EXPOSED END OF THE CONDUIT MUST BE SEALED WITH SILICONE CAULK. (ADD TRANSITIONING GROUND STANDARD DETAIL AS WELL).
21. BUILDINGS WHERE THE MAIN GROUNDING CONDUCTORS ARE REQUIRED TO BE ROUTED TO GRADE, THE CONTRACTOR SHALL ROUTE TWO GROUNDING CONDUCTORS FROM THE ROOFTOP, TOWERS, AND WATER TOWERS GROUNDING RING, TO THE EXISTING GROUNDING SYSTEM, THE GROUNDING CONDUCTORS SHALL NOT BE SMALLER THAN 2/0 COPPER. ROOFTOP GROUNDING RING SHALL BE BONDED TO THE EXISTING GROUNDING SYSTEM, THE BUILDING STEEL COLUMNS, LIGHTNING PROTECTION SYSTEM, AND BUILDING MAIN WATER LINE (FERROUS OR NONFERROUS METAL PIPING ONLY).

AT&T
575 MOROSGO DRIVE
ATLANTA, GA 30324-3300

CROWN CASTLE
3530 TORINGDON WAY, SUITE 300
CHARLOTTE, NC 28277

B+T GRP
1717 S. BOULDER
SUITE 300
TULSA, OK 74119
PH: (918) 587-4630
www.btgrp.com

AT&T SITE NUMBER:
CTL05139

BU #: **842875**
WINDSORDAY HILL

99 DAY HILL ROAD
WINDSOR, CT 06095

EXISTING
168'-0" MONOPOLE

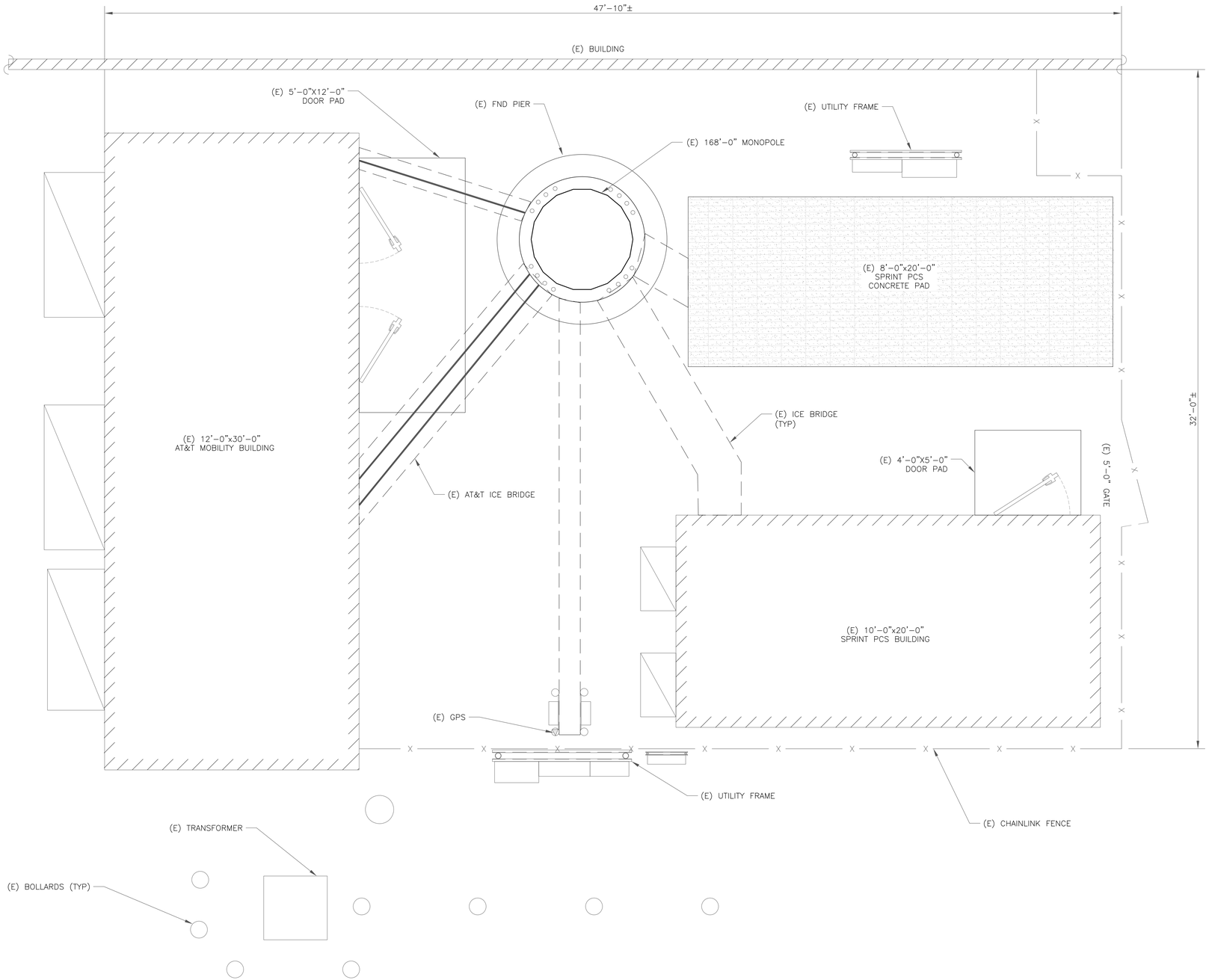
ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	11/24/20	LHT	CONSTRUCTION	MTJ
0	12/11/20	MLC	CONSTRUCTION	GEH
1	12/28/20	JJD	CONSTRUCTION	RMC

STATE OF CONNECTICUT
CHAD TUTTLE
No. 23924
LICENSED
PROFESSIONAL ENGINEER
12/28/20

B&T ENGINEERING, INC.
PEC.0001564
Expires 2/10/21

SHEET NUMBER: T-2
REVISION: 1



1 SITE PLAN
SCALE: 2' 1' 0 2'
3/8"=1'-0" (FULL SIZE)
3/16"=1'-0" (11x17)

N

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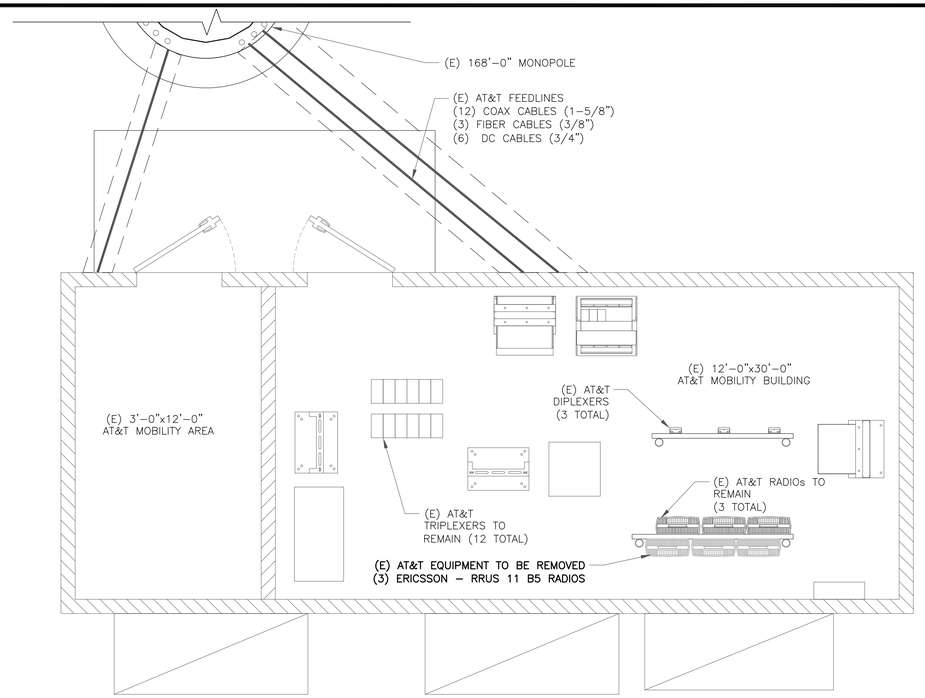
12/28/20

B&T ENGINEERING, INC.
PEC.0001564
Expires 2/10/21

SHEET NUMBER: C-1.1

REVISION: 1



1 EXISTING EQUIPMENT PLAN

SCALE: 2' 1' 0 2' 3/8"=1'-0" (FULL SIZE) 3/16"=1'-0" (11x17)

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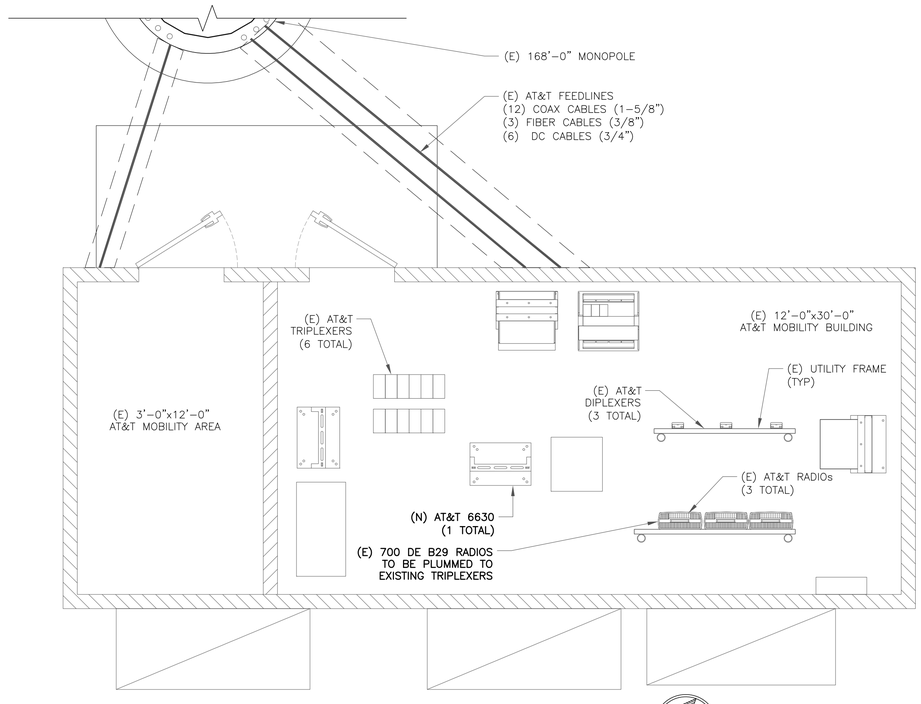

2 FINAL EQUIPMENT PLAN

SCALE: 2' 1' 0 2' 3/8"=1'-0" (FULL SIZE) 3/16"=1'-0" (11x17)

N

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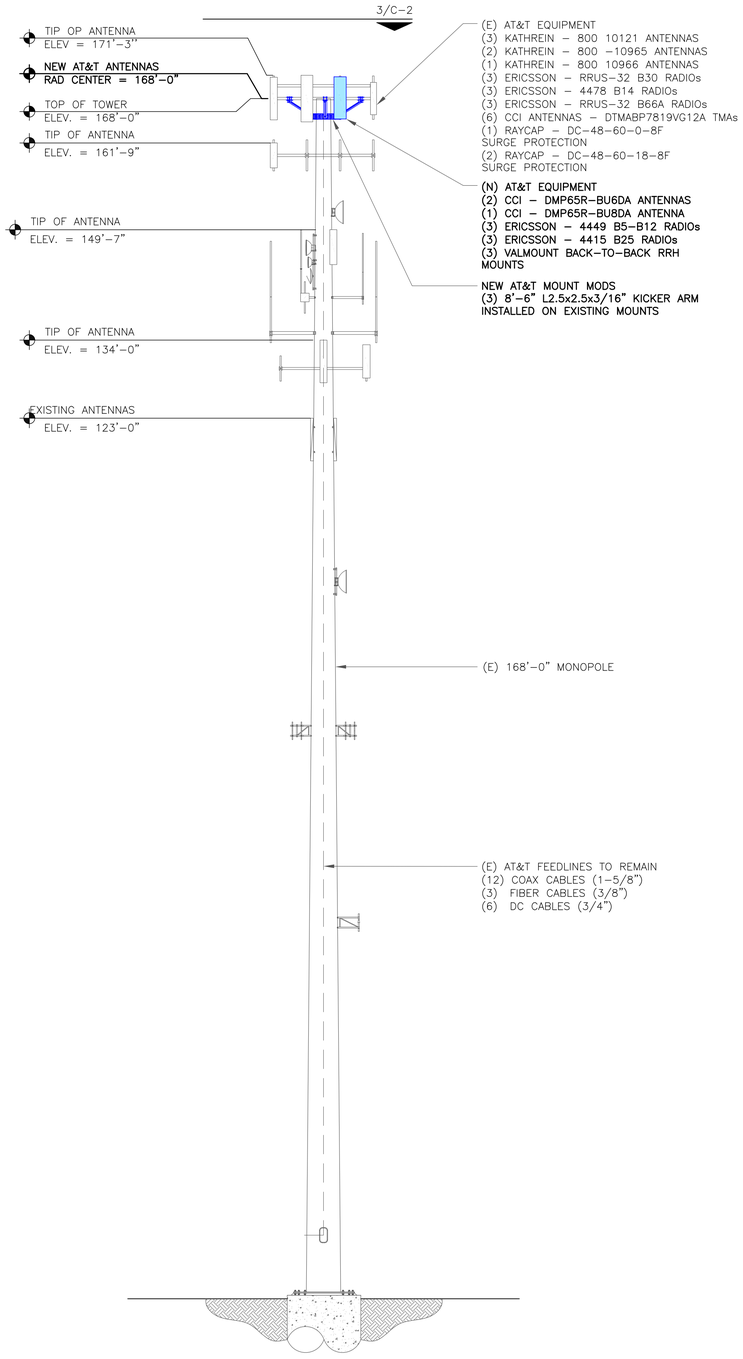
A	11/24/20	LHT	CONSTRUCTION	MTJ
0	12/11/20	MLC	CONSTRUCTION	GEH
1	12/28/20	JJD	CONSTRUCTION	RMC

STATE OF CONNECTICUT
No. 23924
LICENSED
PROFESSIONAL ENGINEER
12/28/20

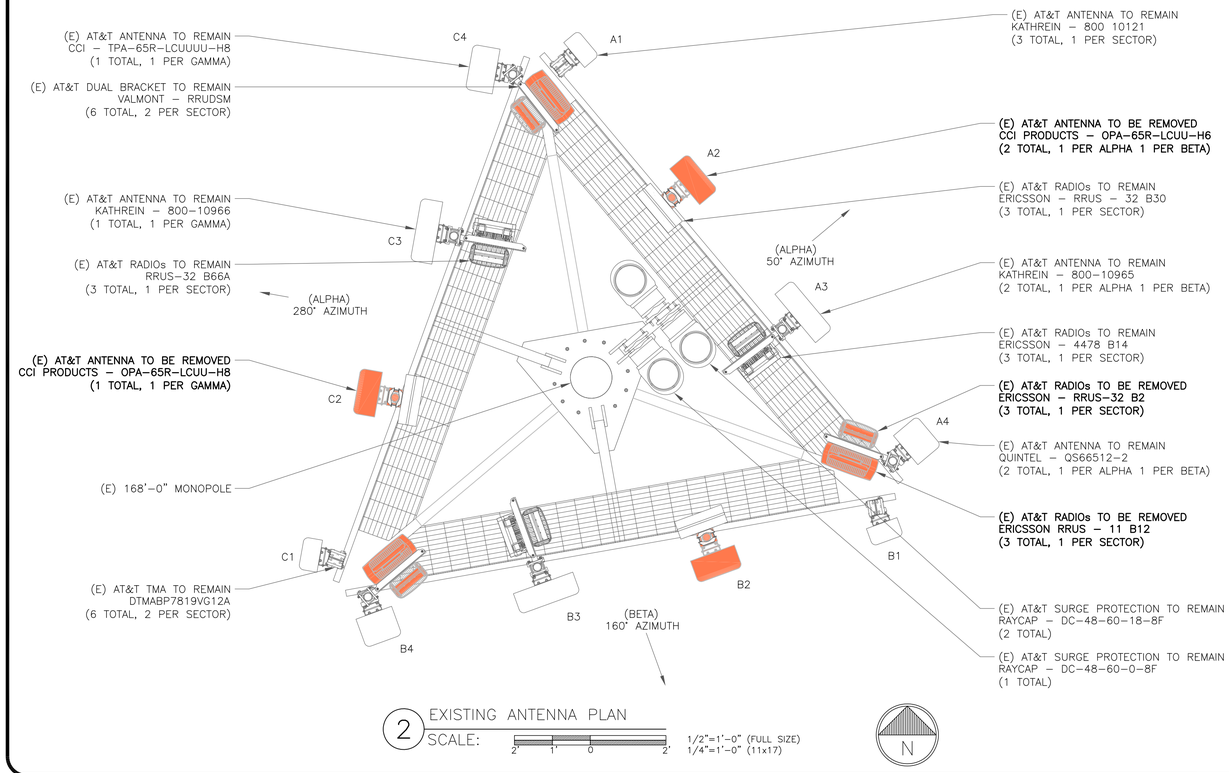
B&T ENGINEERING, INC.
PEC.0001564
Expires 2/10/21

SHEET NUMBER: C-1.2

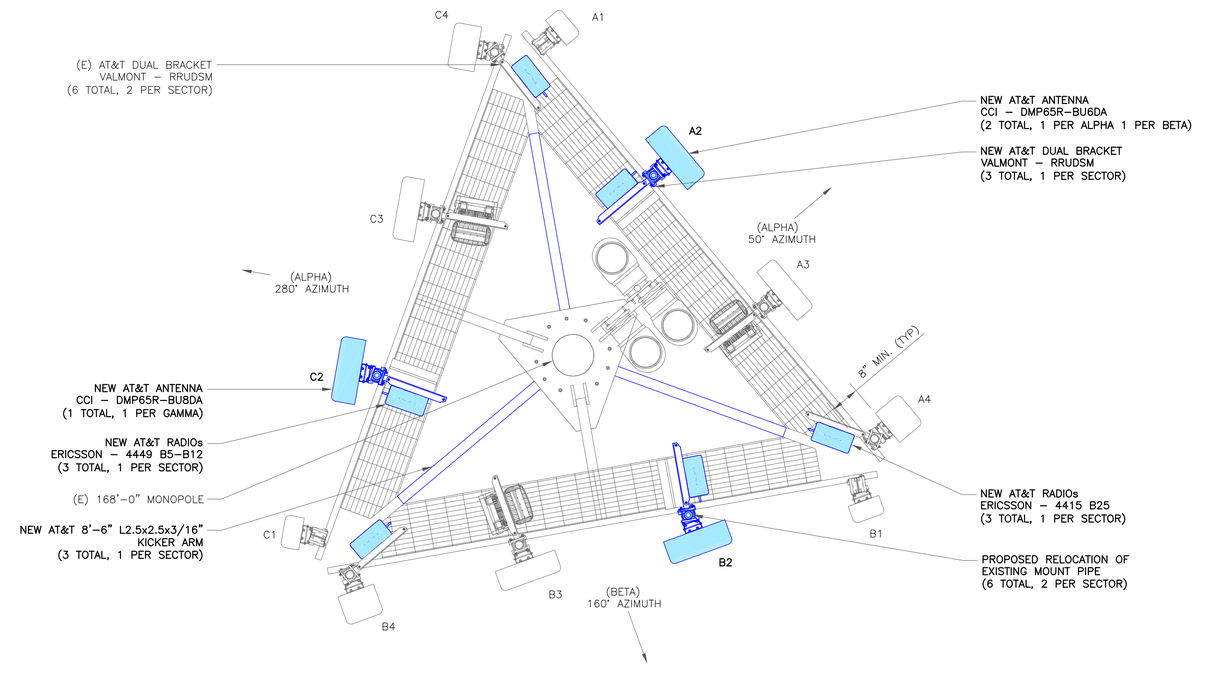
REVISION: 1



1 FINAL ELEVATION
SCALE: NOT TO SCALE



2 EXISTING ANTENNA PLAN
SCALE: 2' 1' 0 2'
1/2"=1'-0" (FULL SIZE)
1/4"=1'-0" (11x17)



3 FINAL ANTENNA PLAN
SCALE: 2' 1' 0 2'
1/2"=1'-0" (FULL SIZE)
1/4"=1'-0" (11x17)

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www.btgrp.com

AT&T SITE NUMBER:
CTL05139

BU #: **842875**
WINDSORDAY HILL

99 DAY HILL ROAD
WINDSOR, CT 06095

EXISTING
168'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	11/24/20	LHT	CONSTRUCTION	MTJ
0	12/11/20	MLC	CONSTRUCTION	GEH
1	12/28/20	JJD	CONSTRUCTION	RMC

B&T ENGINEERING, INC.
PEC.0001564
Expires 2/10/21

SHEET NUMBER: C-2
REVISION: 1

FINAL ANTENNA AND FEEDLINE SCHEDULE

POS.	TECH	STATUS	AZIMUTH	ANTENNA TYPE	ANTENNA RAD CENTER	MECHANICAL DOWNTILT	ELECTRICAL DOWNTILT	MAIN COAX SIZE	MAIN COAX LENGTH	COAX QTY	TMA QTY AND MODEL	SURGE PROTECTION	DC/FIBER CABLES	RRHs QTY & MODEL	LOCATION	DIPLEXER ON TOWER	DIPLEXER ON GROUND	RET CABLE
ALPHA SECTOR																		
A1	UMTS 850	EXISTING	50°	KATHREIN – 800 10121	168'–0"	0°	6°	1 5/8"	200'–0"	2	(2) DTMABP7819V G12A	(2) DC–48–60–18–8F (1) DC–48–60–0–8F	(2) DC POWER CABLE 3/4" (1) FIBER CABLE 1/8"	–	TOWER	N	Y	N
A2	LTE 850 / LTE 700 / LTE WCS / 5G 850	**NEW**	**50°**	CCI–DMP65R–BU6D A	**168'–0"**	**0°**	4° / 3° / 0° / 3°	–	–	–	–			**(1) 4449 B5–B12** (1) RRUS–32 B30	**TOWER**	**N**	**N**	**N**
A3	LTE 700 / LTE AWS	EXISTING	50°	KATHREIN – 800–10965	168'–0"	0°	4° / 3°	–	–	–	–			(1) 4478 B14 (1) RRUS–32 B66A	TOWER	N	Y	N
A4	LTE 700 / LTE 1900	EXISTING	50°	QUINTEL – QS66512–2	168'–0"	0°	4° / 3° / 3° / 3°	1 5/8"	200'–0"	2	–			**(1) 4415 B25** (1) 700 DE B29	**TOWER** GROUND	Y	Y	N
BETA SECTOR																		
A1	UMTS 850	EXISTING	160°	KATHREIN – 800 10121	168'–0"	0°	8°	1 5/8"	200'–0"	2	(2) DTMABP7819V G12A	–	(2) DC POWER CABLE 3/4" (1) FIBER CABLE 1/8"	–	TOWER	N	Y	N
A2	LTE 850 / LTE 700 / LTE WCS / 5G 850	**NEW**	**160°**	CCI–DMP65R–BU6D A	**168'–0"**	**0°**	8° / 3° / 0° / 3°	–	–	–	–			**(1) 4449 B5–B12** (1) RRUS–32 B30	**TOWER**	**N**	**N**	**N**
A3	LTE 700 / LTE AWS	EXISTING	160°	KATHREIN – 800–10965	168'–0"	0°	10° / 8°	–	–	–	–			(1) 4478 B14 (1) RRUS–32 B66A	TOWER	N	Y	N
A4	LTE 700 / LTE 1900	EXISTING	160°	QUINTEL – QS66512–2	168'–0"	0°	10° / 7° / 7° / 7°	1 5/8"	200'–0"	2	–			**(1) 4415 B25** (1) 700 DE B29	**TOWER** GROUND	Y	Y	N
GAMMA SECTOR																		
A1	UMTS 850	EXISTING	280°	KATHREIN – 800 10121	168'–0"	0°	4°	1 5/8"	200'–0"	2	(2) DTMABP7819V G12A	-	(2) DC POWER CABLE 3/4"	–	TOWER	N	Y	N
A2	LTE 850 / LTE 700 / LTE WCS / 5G 850	**NEW**	**280°**	CCI–DMP65R–BU8D A	**168'–0"**	**0°**	2° / 3° / 0° / 3°	–	–	–	–			**(1) 4449 B5–B12** (1) RRUS–32 B30	**TOWER**	**N**	**N**	**N**
A3	LTE 700 / LTE AWS	EXISTING	280°	KATHREIN – 800–10965	168'–0"	0°	2° / 6°	–	–	–	–			(1) 4478 B14 (1) RRUS–32 B66A	TOWER	N	Y	N
A4	LTE 700 / LTE 1900	EXISTING	280°	QUINTEL – QS66512–2	168'–0"	0°	2° / 6° / 6° / 6°	1 5/8"	200'–0"	2	–			**(1) 4415 B25** (1) 700 DE B29	**TOWER** GROUND	Y	Y	N

NOTE: BOLD DENOTES NEW EQUIPMENT

1 FINAL ANTENNA AND FEEDLINE SCHEDULE
SCALE: NOT TO SCALE

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AT&T SITE NUMBER:
CTL05139

BU #: **842875**
WINDSORDAY HILL

99 DAY HILL ROAD
WINDSOR, CT 06095

EXISTING
168'-0" MONOPOLE

ISSUED FOR:

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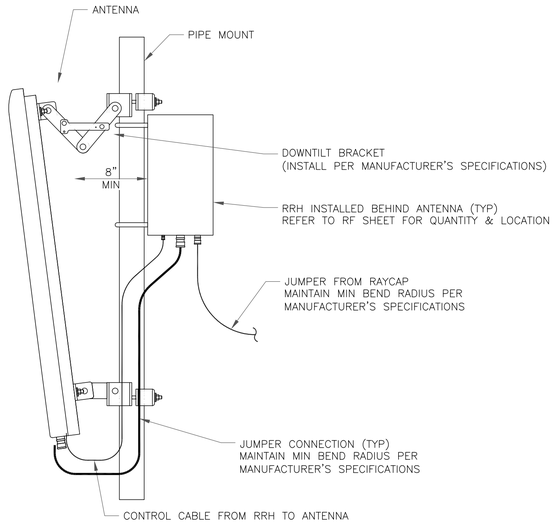
B&T ENGINEERING, INC.
PEC.0001564
Expires 2/10/21

SHEET NUMBER: C-3

REVISION: 1



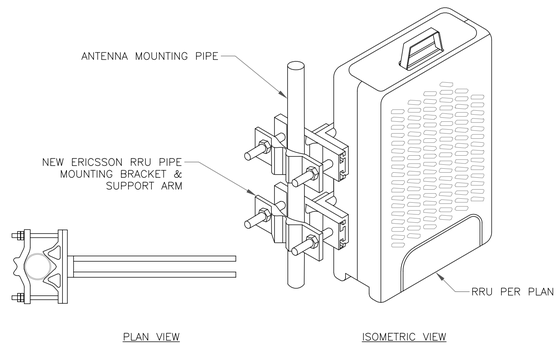
1 GENERIC ANTENNA MOUNTING ELEVATION
SCALE: NOT TO SCALE

ERICSSON RRU MOUNTING KIT:

SXK 107 2839/1: SINGLE RRU SUPPORT KIT (PART # 5335) (OR ENGINEER APPROVED EQUIVALENT)
SXK 107 2839/2: EXPANSION KIT (PART # 5336) (OR ENGINEER APPROVED EQUIVALENT)

MOUNTING NOTES:

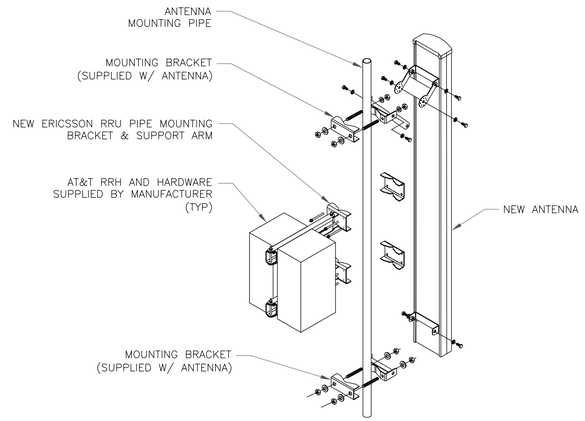
REFER TO PRODUCT SPECS FOR BOLT SIZE & PIPE
DIAMETER TOLERANCES. THE PART NO. SXK107-2839/2 IS REQUIRED FOR (2) RRUS.



2 ERICSSON – SXK 107 2839
SCALE: NOT TO SCALE

INSTALLER NOTES:

1. COMPLY WITH MANUFACTURERS INSTRUCTIONS TO ENSURE THAT ALL RRHs RECEIVE ELECTRICAL POWER WITHIN 24 HOURS OF BEING REMOVED FROM THE MANUFACTURER'S PACKAGING.
2. DO NOT OPEN RRH PACKAGES IN THE RAIN.
3. ALL PIPES, BRACKETS, AND MISCELLANEOUS HARDWARE TO BE GALVANIZED UNLESS NOTED OTHERWISE.
4. 8" MINIMUM DISTANCE BETWEEN BACK OF ANTENNA AND RADIO.



3 ANTENNA WITH DUAL RRH MOUNTING DETAIL
SCALE: NOT TO SCALE

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AT&T SITE NUMBER:
CTL05139

BU #: **842875**
WINDSORDAY HILL

99 DAY HILL ROAD
WINDSOR, CT 06095

EXISTING
168'-0" MONOPOLE

ISSUED FOR:

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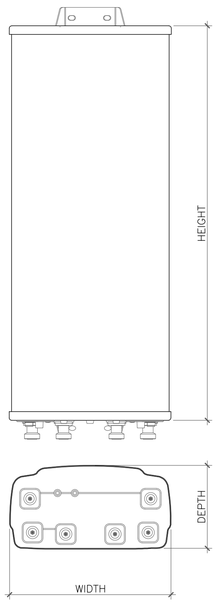
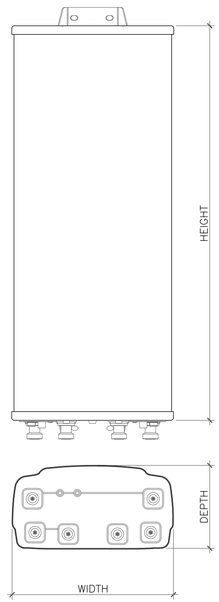
Expires 2/10/21

SHEET NUMBER: C-4
REVISION: 1



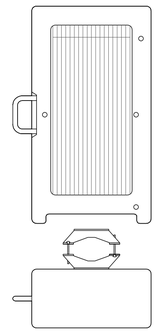
ANTENNA DIMENSIONS (INCHES)				
MODEL	HEIGHT	WIDTH	DEPTH	WEIGHT
DMP65R-BU6D	71.20"	20.70"	7.70"	89.3 lbs

1 ANTENNA DETAIL
SCALE: NOT TO SCALE



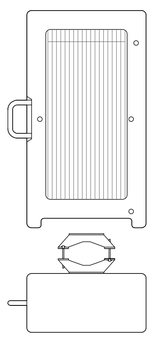
ANTENNA DIMENSIONS (INCHES)				
MODEL	HEIGHT	WIDTH	DEPTH	WEIGHT
DMP65R-BU8D	96.0"	20.70"	7.70"	105.6 lbs

2 ANTENNA DETAIL
SCALE: NOT TO SCALE



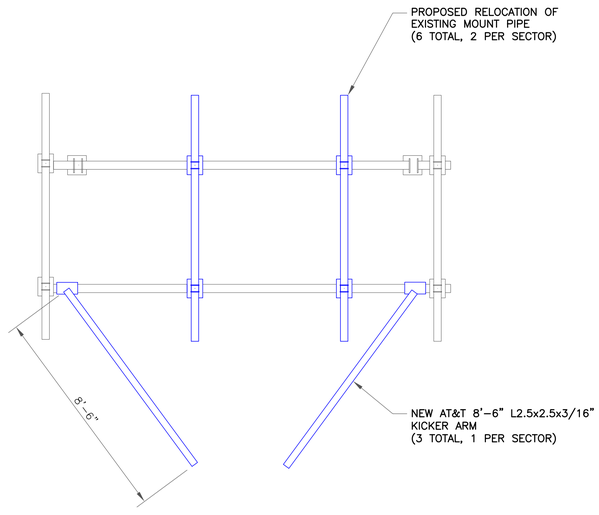
ERICSSON – RRUS 4415 B25
WEIGHT (FULLY EQUIPPED): 44 LBS
SIZE (HxWxD): 14.96x13.19x5.39 IN.
CONNECTOR TYPE: 4.3-10 FEMALE (4 TOTAL PORTS)

3 ERICSSON – RRUS 4415 B25
SCALE: NOT TO SCALE



ERICSSON – RRUS 4449 B5/B12
WEIGHT (FULLY EQUIPPED): 71 LBS
SIZE (HxWxD): 17.90x13.19x9.44 IN.
CONNECTOR TYPE: 4.3-10 FEMALE (4 TOTAL PORTS)

4 ERICSSON – RRUS 4449 B5/B12
SCALE: NOT TO SCALE



5 KICKER ARM
SCALE: NOT TO SCALE

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BU #: **842875**
WINDSORDAY HILL

99 DAY HILL ROAD
WINDSOR, CT 06095

EXISTING
168'-0" MONOPOLE

ISSUED FOR:

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B&T ENGINEERING, INC.
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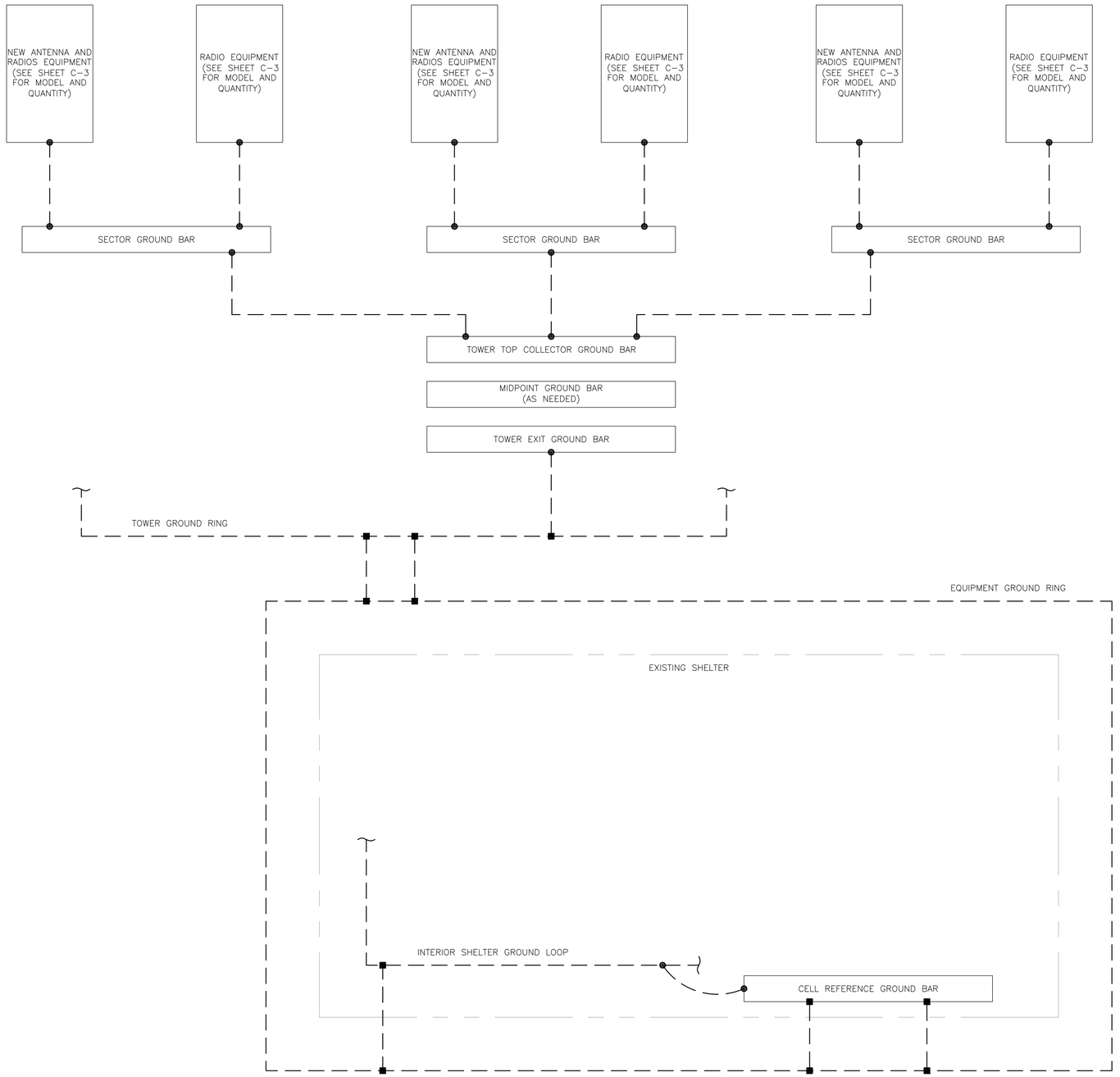
Expires 2/10/21

SHEET NUMBER: C-5
REVISION: 1



1 GROUNDING SCHEMATIC
SCALE: NOT TO SCALE

GROUNDING PLAN LEGEND:

- GROUND WIRE
- EXOTHERMIC WELD
- MECHANICAL CONNECTION
- COPPER GROUND ROD
- GROUND ROD W/ TEST WELL

CELL REFERENCE GROUND BAR: POINT OF GROUND REFERENCE FOR ALL COMMUNICATIONS EQUIPMENT FRAMES. ALL BONDS ARE MADE WITH #2 STRANDED GREEN INSULATED COPPER CONDUCTORS. BOND TO GROUND RING WITH (2) #2 SOLID TINNED COPPER CONDUITS (ATT-TP-76416 7.6.7).

HATCH PLATE GROUND BAR: BOND TO THE INTERIOR GROUND RING WITH (2) #2 STRANDED GREEN INSULATED COPPER CONDUCTORS. WHEN A HATCH-PLATE AND A CELL REFERENCE GROUND BAR ARE BOTH PRESENT, THE CELL SITE REFERENCE GROUND BAR MUST BE CONNECTED TO THE HATCH-PLATE AND TO THE INTERIOR GROUND RING USING (2) #2 STRANDED GREEN INSULATED COPPER CONDUCTORS.

EXTERIOR CABLE ENTRY PORT GROUND BARS: LOCATED AT THE ENTRANCE TO THE CELL SITE BUILDING. BOND TO GROUND RING WITH A #2 SOLID TINNED COPPER CONDUCTORS WITH AN EXOTHERMIC WELD AND INSPECTION SLEEVE (ATT-TP-76416 7.6.7.2).

DURING ALL DC POWER SYSTEM CHANGES INCLUDING DC SYSTEM CHANGE OUTS, RECTIFIER REPLACEMENTS OR ADDITIONS, BREAKER DISTRIBUTION CHANGES, BATTERY ADDITIONS, BATTERY REPLACEMENTS AND INSTALLATIONS OR CHANGES TO DC CONVERTER SYSTEMS IT SHALL BE REQUIRED THAT SERVICES CONTRACTORS VERIFY ALL DC POWER SYSTEMS ARE EQUIPPED WITH MASTER DC SYSTEM RETURN GROUND CONDUCTOR FROM THE DC POWER SYSTEM COMMON RETURN BUS DIRECTLY CONNECTED TO THE CELL SITE REFERENCE GROUND BAR PER TP76300 SECTION H 6 AND TP76416 FIGURE 7-11 REQUIREMENTS.

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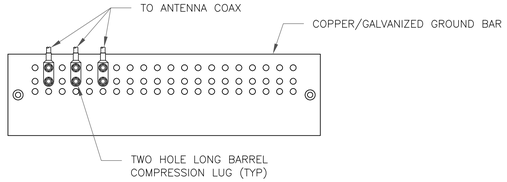
B&T ENGINEERING, INC.
PEC.0001564
Expires 2/10/21

SHEET NUMBER: G-1

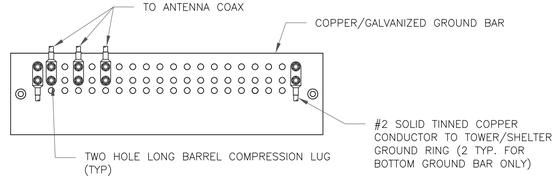
REVISION: 1



NOTES:

1. DOUBLING UP "OR STACKING" OF CONNECTIONS IS NOT PERMITTED.
2. EXTERIOR ANTIOXIDANT JOINT COMPOUND TO BE USED ON ALL EXTERIOR CONNECTIONS.
3. GROUND BAR SHALL NOT BE ISOLATED FROM TOWER. MOUNT DIRECTLY TO ANTENNA MOUNT STEEL.

1 ANTENNA SECTOR GROUND BAR DETAIL
SCALE: NOT TO SCALE

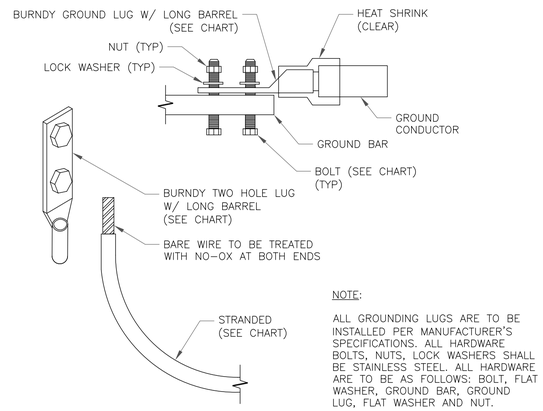


NOTES:

1. EXTERIOR ANTIOXIDANT JOINT COMPOUND TO BE USED ON ALL EXTERIOR CONNECTIONS.
2. GROUND BAR SHALL NOT BE ISOLATED FROM TOWER. MOUNT DIRECTLY TO TOWER STEEL (TOWER ONLY).
3. GROUND BAR SHALL BE ISOLATED FROM BUILDING OR SHELTER.

2 TOWER/SHELTER GROUND BAR DETAIL
SCALE: NOT TO SCALE

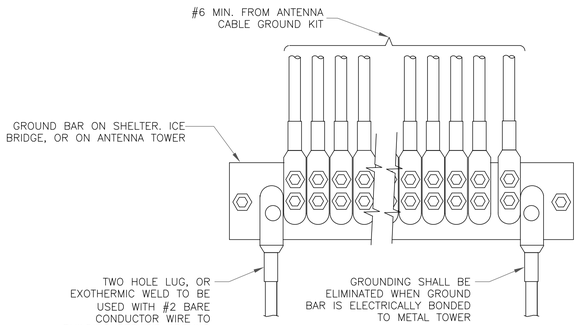
WIRE SIZE	BURNDY LUG	BOLT SIZE
#6 GREEN INSULATED	YA6C-2TC38	3/8" - 16 NC SS 2 BOLT
#2 SOLID TINNED	YA3C-2TC38	3/8" - 16 NC SS 2 BOLT
#2 STRANDED	YA2C-2TC38	3/8" - 16 NC SS 2 BOLT
#2/0 STRANDED	YA26-2TC38	3/8" - 16 NC SS 2 BOLT
#4/0 STRANDED	YA28-2N	1/2" - 16 NC SS 2 BOLT



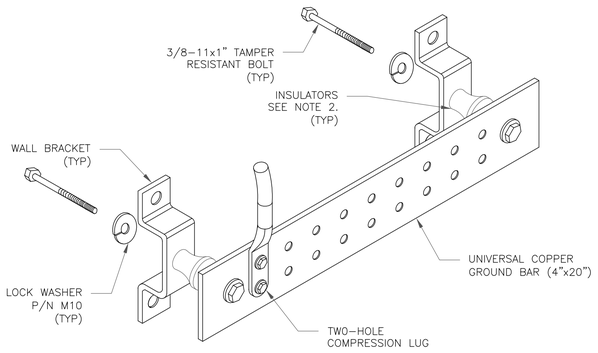
NOTE:

ALL GROUNDING LUGS ARE TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS. ALL HARDWARE BOLTS, NUTS, LOCK WASHERS SHALL BE STAINLESS STEEL. ALL HARDWARE ARE TO BE AS FOLLOWS: BOLT, FLAT WASHER, GROUND BAR, GROUND LUG, FLAT WASHER AND NUT.

3 MECHANICAL LUG CONNECTION
SCALE: NOT TO SCALE



4 GROUNDWIRE INSTALLATION
SCALE: NOT TO SCALE

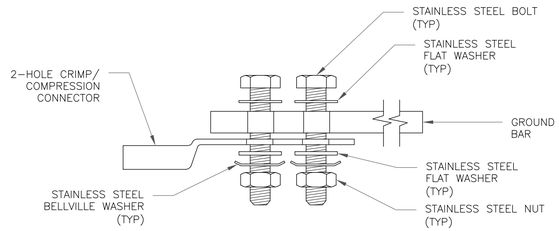


NOTES:

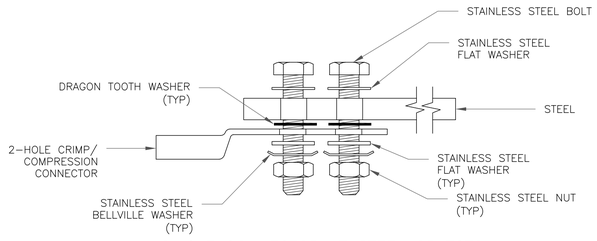
1. DOWN LEAD (HOME RUN) CONDUCTORS ARE NOT TO BE INSTALLED ON CROWN CASTLE USA INC. TOWER, PER THE GROUNDING DOWN CONDUCTOR POLICY QAS-STD-10091. NO MODIFICATION OR DRILLING TO TOWER STEEL IS ALLOWED IN ANY FORM OR FASHION, CAD-WELDING ON THE TOWER AND/OR IN THE AIR ARE NOT PERMITTED.

2. OMIT INSULATOR WHEN MOUNTING TO TOWER STEEL OR PLATFORM STEEL USE INSULATORS WHEN ATTACHING TO BUILDING OR SHELTERS.

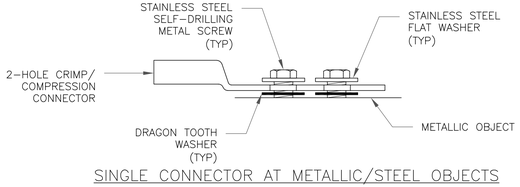
5 GROUND BAR DETAIL
SCALE: NOT TO SCALE



SINGLE CONNECTOR AT GROUND BARS

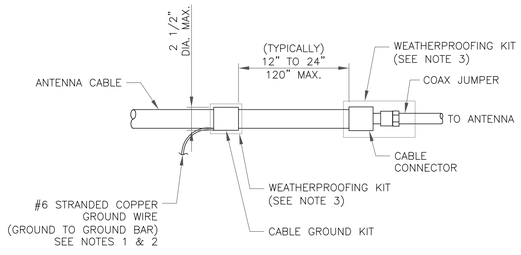


SINGLE CONNECTOR AT STEEL OBJECTS



SINGLE CONNECTOR AT METALLIC/STEEL OBJECTS

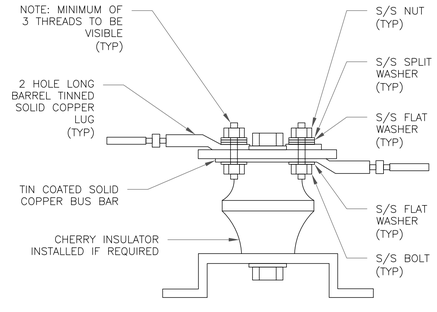
8 HARDWARE DETAIL FOR EXTERIOR CONNECTIONS
SCALE: NOT TO SCALE



NOTES:

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
2. GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.
3. WEATHER PROOFING SHALL BE TWO-PART TAPE KIT, COLD SHRINK SHALL NOT BE USED.

6 CABLE GROUND KIT CONNECTION
SCALE: NOT TO SCALE



7 LUG DETAIL
SCALE: NOT TO SCALE

AT&T
575 MOROSGO DRIVE
ATLANTA, GA 30324-3300

CROWN CASTLE
3530 TORINGDON WAY, SUITE 300
CHARLOTTE, NC 28277

B+T GRP
1717 S. BOULDER
SUITE 300
TULSA, OK 74119
PH: (918) 587-4630
www.btgrp.com

AT&T SITE NUMBER:
CTL05139

BU #: **842875**
WINDSORDAY HILL

99 DAY HILL ROAD
WINDSOR, CT 06095

EXISTING
168'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	11/24/20	LHT	CONSTRUCTION	MTJ
0	12/11/20	MLC	CONSTRUCTION	GEH
1	12/28/20	JJD	CONSTRUCTION	RMC

STATE OF CONNECTICUT
No. 23924
LICENSED
PROFESSIONAL ENGINEER
12/28/20

B&T ENGINEERING, INC.
PEC.0001564
Expires 2/10/21

SHEET NUMBER: G-2
REVISION: 1

Diagram - Sector	A	Diagram File Name - 5GNR_FN_CT5139_A_B_C_LTE-7C_R2.0.vsd					
Atoll Site Name -	CTL05139	Location Name -	WINDSORDAY HILL	Market -	CONNECTICUT	Market Cluster -	NEW ENGLAND

Comments: Important Note: For detailed radio to antenna wiring refer to the latest field notice - Antenna_Radio Connection Drawings Playbook v6.0_Ericsson

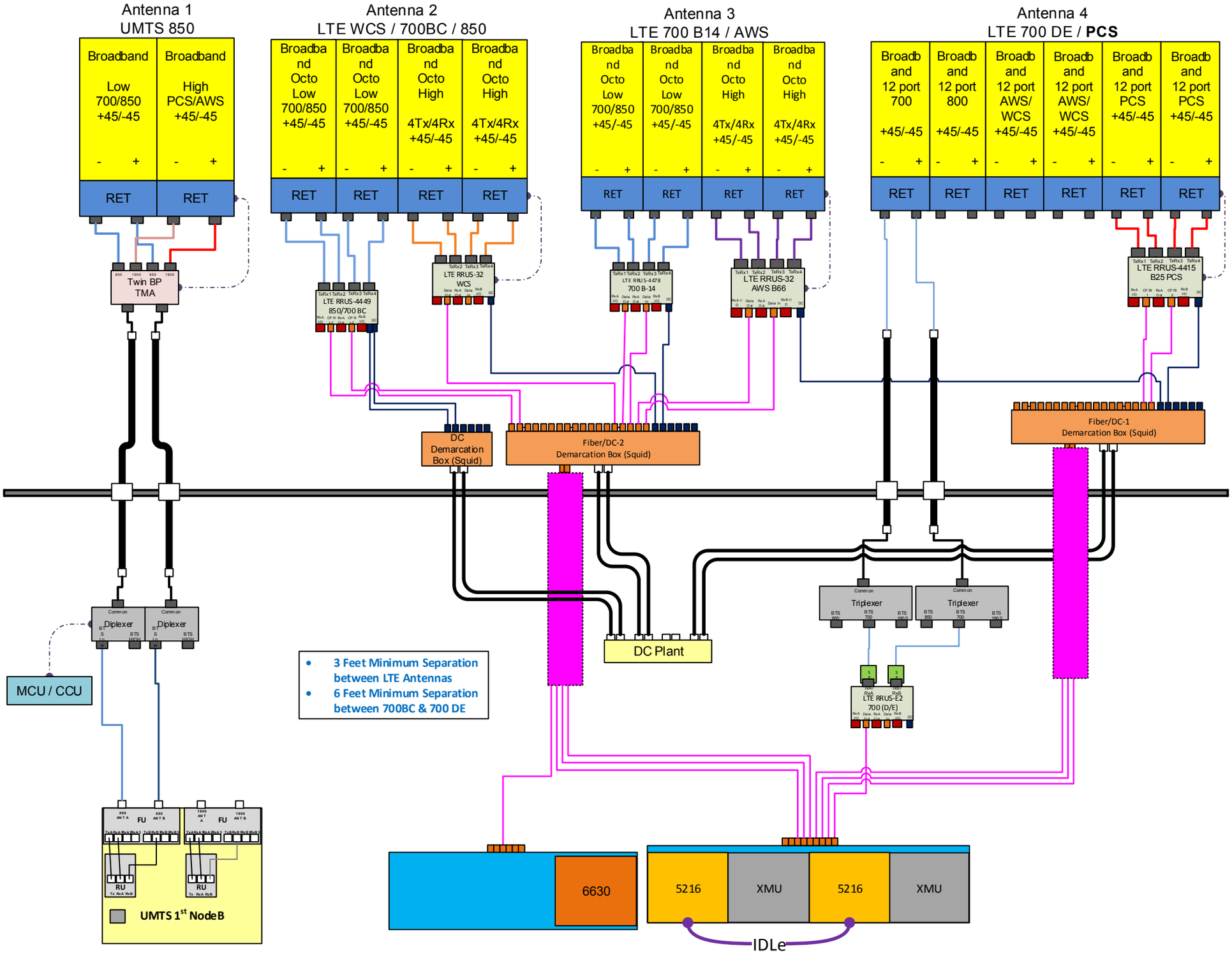


Diagram - Sector	B	Diagram File Name - 5GNR_FN_CT5139_A_B_C_LTE-7C_R2.0.vsd					
Atoll Site Name -	CTL05139	Location Name -	WINDSORDAY HILL	Market -	CONNECTICUT	Market Cluster -	NEW ENGLAND

Comments: Important Note: For detailed radio to antenna wiring refer to the latest field notice - Antenna_Radio Connection Drawings Playbook v6.0_Ericsson

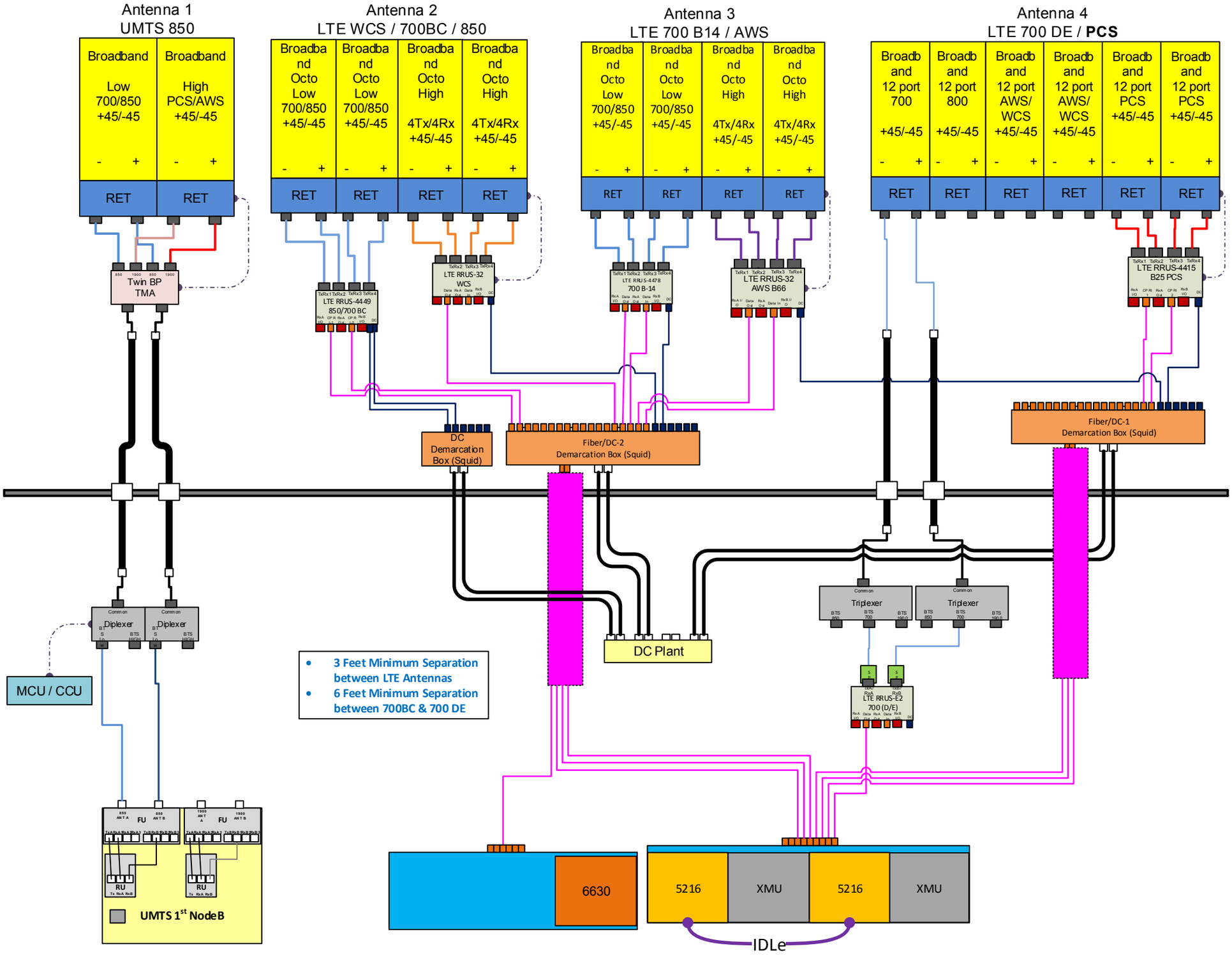
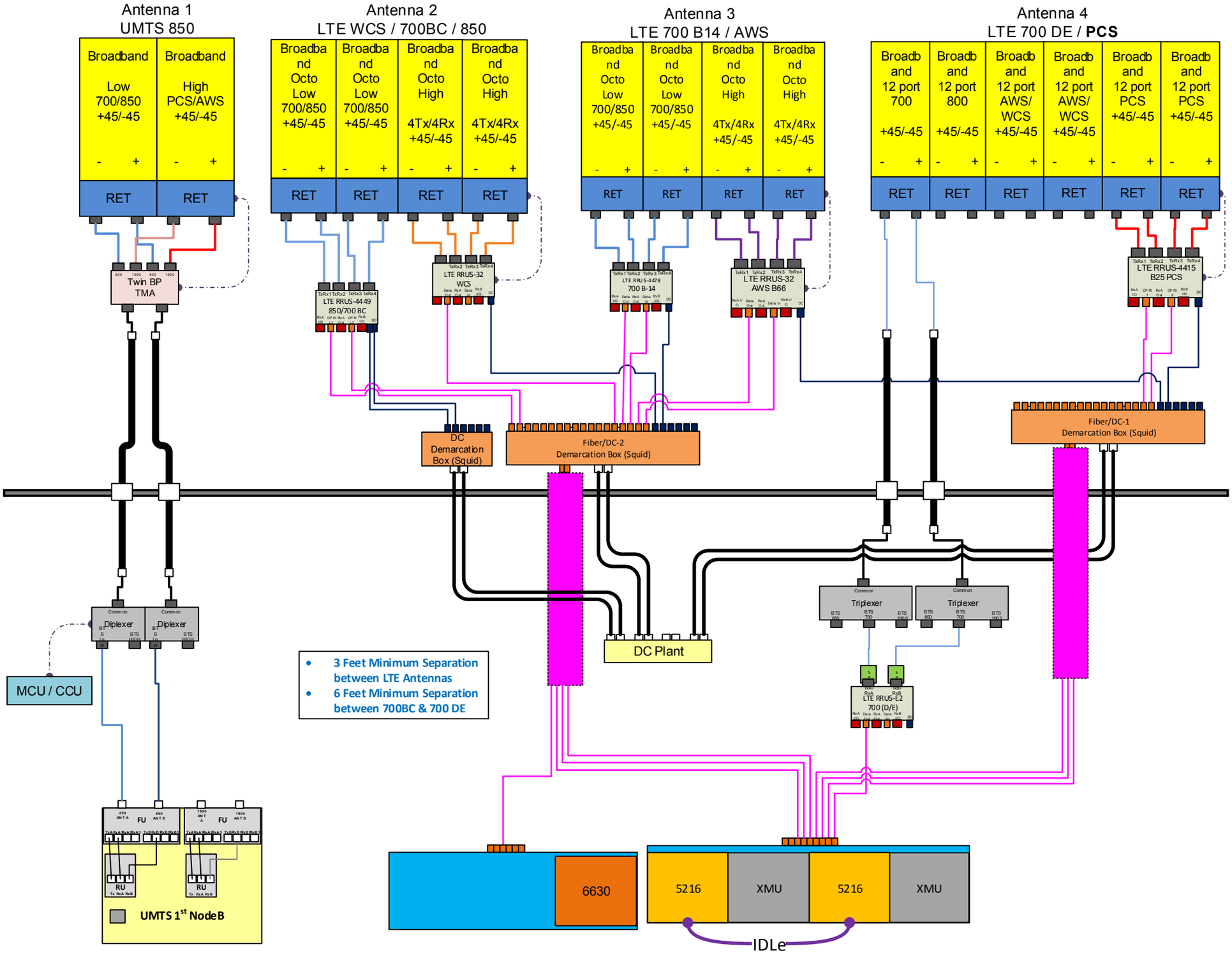


Diagram - Sector	C	Diagram File Name - 5GNR_FN_CT5139_A_B_C_LTE-7C_R2.0.vsd					
Atoll Site Name -	CTL05139	Location Name -	WINDSORDAY HILL	Market -	CONNECTICUT	Market Cluster -	NEW ENGLAND

Comments: Important Note: For detailed radio to antenna wiring refer to the latest field notice - Antenna_Radio Connection Drawings Playbook v6.0_Ericsson



CROWN CASTLE

SITE:

842875 WINDSORDAY HILL (10071331)

MODIFICATION DRAWING FOR AN EXISTING 14' PLATFORM W/ SUPPORT RAILS AT 168' ON A 168' MONOPOLE TOWER

SHEET INDEX	
T-01	TITLE SHEET
N-01	NOTES
S-01	PLAN VIEW
S-02	ELEVATION & SECTION VIEWS
MI-01	MODIFICATION CHECKLIST

PROJECT INFORMATION	
COUNTY:	HARTFORD
SITE ADDRESS:	99 DAY HILL ROAD WINDSOR, CT 06095
LATITUDE:	41° 52' 16.10"
LONGITUDE:	-72° 40' 16.00"

SCOPE OF WORK:

MOUNT MODIFICATION DRAWINGS INCLUDES:
REPLACE EXISTING KICKER KIT ARMS. RELOCATE EXISTING MOUNT PIPES TO ALLOW REQUIRED ANTENNA SEPARATION.

PLANS PREPARED FOR:

CROWN CASTLE

PLANS PREPARED BY:

POD
POWER OF DESIGN
1033 E. TURKEYFOOT LAKE RD.
SUITE 206 AKRON, OHIO 44312
330-961-7432

CARRIER:

AT&T

MODIFICATION DRAWING

STATE OF CONNECTICUT
JASON CHERONIS
PEN.0032793
LICENSED
PROFESSIONAL ENGINEER

REV.	DATE	DESCRIPTION

SITE INFORMATION:
WINDSORDAY HILL
(10071331)

99 DAY HILL ROAD
WINDSOR, CT 06095

SITE NUMBER:
842875

POD NUMBER: 20-66002

DRAWN BY: TAJ
CHECKED BY: JGC
DATE: 11/03/2020

SHEET TITLE:

TITLE SHEET

T-01

GENERAL NOTES

1. THE MODIFICATIONS REPRESENTED IN THESE DRAWINGS ARE BASED ON THE STRUCTURAL DOCUMENTS PROVIDED IN THE STRUCTURAL DOCUMENTS TABLE. THE CONTRACTOR SHALL OBTAIN AND BECOME FAMILIAR WITH ALL REFERENCED DOCUMENTS.

REFERENCE DOCUMENTS	
DOCUMENT TYPE	DESIGNATION
MOUNT ANALYSIS	POD PROJECT NUMBER: 20-65702 DATED: 06/22/2020

2. ALL MODIFICATIONS MUST BE INSTALLED TO BRING THE TOWER INTO CONFORMANCE WITH ALL APPLICABLE CODES.

GOVERNING CODES	TIA-222-H
ULTIMATE WIND SPEED	116 MPH 3 SECOND GUST
RADIAL ICE THICKNESS	1.5"
WIND SPEED W/ ICE	50 MPH 3 SECOND GUST
STRUCTURE CLASS	II
EXPOSURE CATEGORY	C
TOPOGRAPHIC CATEGORY	1
SPECTRAL RESPONSE ACCELERATIONS	SS= 0.179 & S1= 0.055

3. ALL WORK PRESENTED ON THESE DRAWINGS MUST BE COMPLETED BY THE CONTRACTOR UNLESS NOTED OTHERWISE OR APPROVED BY THE EOR. THE CONTRACTOR MUST HAVE CONSIDERABLE EXPERIENCE PERFORMING WORK SIMILAR TO THAT DESCRIBED WITHIN THESE DRAWINGS. BY ACCEPTANCE OF THIS PROJECT, THE CONTRACTOR IS ATTESTING THAT HE HAS SUFFICIENT EXPERIENCE AND ABILITY, THAT HE IS KNOWLEDGEABLE OF THE WORK TO BE PERFORMED AND THAT HE IS PROPERLY LICENSED AND REGISTERED TO PERFORM THE WORK IN THE PROJECT JURISDICTION.
4. WORK SHALL ONLY BE PERFORMED DURING CALM, DRY DAYS (WINDS LESS THAN 10XMPH). IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE INSTILLATION PROCEDURE AND SEQUENCE TO INSURE THE SAFETY OF THE STRUCTURE AND ITS COMPONENT PARTS DURING ERECTION AND/OR MODIFICATIONS. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF TEMPORARY BRACING, GUYS OR TIEXDOWNS THAT MAY BE NECESSARY. SUCH MATERIAL SHALL BE REMOVED AND SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AFTER THE COMPLETION OF THE PROJECT.
5. ALL DIMENSIONS, ELEVATIONS AND EXISTING CONDITIONS SHOWN ON THE DRAWINGS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING ANY MATERIALS ORDERING, FABRICATION OR CONSTRUCTION WORK ON THIS PROJECT. CONTRACTOR SHALL NOT SCALE CONTRACT DRAWINGS IN LIEU OF FIELD VERIFICATIONS. ANY DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER AND EOR. THE DISCREPANCIES MUST BE RESOLVED BEFORE THE CONTRACTOR IS TO PROCEED WITH THE WORK. THE CONTRACT DOCUMENTS DO NOT INDICATE THE METHODS OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND IS SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES. OBSERVATION VISITS TO THE SITE BY THE OWNER AND/OR THE EOR SHALL NOT INCLUDE INSPECTION OF THE PROTECTIVE MEASURES AND PROCEDURES.
6. THE DESIGN WITHIN THESE DRAWINGS ASSUMES THE TOWER AND ITS FOUNDATIONS HAVE BEEN WELL MAINTAINED, IN GOOD CONDITION AND ARE WITHOUT DEFECT. BENT MEMBERS, CORRODED MEMBER, LOOSE BOLTS, CRACKED WELDS, AND OTHER STRUCTURAL DEFECTS HAVE NOT BEEN CONSIDERED UNLESS SPECIFICALLY NOTED. THE TOWER IS ASSUMED TO BE PLUMB AND THE SITE IS ASSUMED LEVEL. THE OWNER AND/OR EOR SHALL BE NOTIFIED IMMEDIATELY IF ANY VARIANCES ARE FOUND.
7. THE CONTRACTOR SHALL ONLY WORK WITHIN THE LIMITS OF THE TOWER OWNER'S PROPERTY, LEASE AREA OR APPROVED EASEMENTS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY WORK IS PERFORMED WITHIN THESE BOUNDARIES. CONSTRUCTION STAKING AND BOUNDARY MARKING IS THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL EMPLOY A SURVEYOR AS REQUIRED. ANY WORK OUTSIDE THESE BOUNDARIES SHALL BE APPROVED IN WRITING BY THE OWNER.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INITIATING, MAINTAIN AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR INSURING THAT ALL WORK PERFORMED COMPLIES WITH ALL APPLICATION SAFETY CODES AND GOVERNING REGULATIONS.
9. ACCESS TO THE PROPOSED WORK SITE MAY BE RESTRICTED. THE CONTRACTOR SHALL COORDINATE INTENDED CONSTRUCTION ACTIVITY, INCLUDING WORK SCHEDULES AND MATERIAL DELIVERIES, WITH THE OWNER/RESIDENT LEASING AGENT FOR APPROVAL.
10. THE CONTRACTOR SHALL SECURE ALL NECESSARY PERMITS FOR THIS PROJECT FROM ALL APPLICABLE GOVERNING AGENCIES. THE CONTRACTOR WILL BE RESPONSIBLE FOR ABIDING BY ALL CONDITIONS AND REQUIREMENTS OF THE PERMITS.
11. ALL MATERIAL UTILIZED FOR THIS PROJECT MUST BE NEW AND FREE OF ANY DEFECTS. ANY MATERIAL SUBSTITUTIONS, INCLUDED BUT NOT LIMITED TO ALTERED SIZED AND/OR STRENGTHS, MUST BE APPROVED BY THE EOR.
12. UNLESS NOTED OTHERWISE, ALL NEW MEMBERS SHALL MAINTAIN THE EXISTING MEMBER WORKING LINES AND NOT INTRODUCE ECCENTRICITIES INTO THE STRUCTURE.
13. ALL DIMENSIONS AND QUANTITIES LISTED WITHIN THESE DRAWINGS ARE INTENDED TO AID THE CONTRACTOR. THE CONTRACTOR SHALL VERIFY ALL DIMENSION AND QUANTITIES PRIOR TO BIDDING AND/OR ORDERING MATERIALS.
14. ALL MANUFACTURERS' INSTRUCTIONS SHALL BE FOLLOWED EXACTLY. ANY DEVIATION REQUIRES WRITTEN APPROVAL FROM THE EOR.
15. THE CONTRACTOR IS RESPONSIBLE FOR TEMPORARILY REMOVING COAX, BRACKETS, ANTENNAS MOUNTS AND ANY OTHER TOWER APPURTENANCE THAT MAY INTERFERE WITH THE INSTILLATION OF THE TOWER MODIFICATIONS. ALL TOWER APPURTENANCES MUST BE REPLACE AND/OR RESTORED TO ITS ORIGINAL LOCATION. SOME MOUNTS OR ATTACHMENTS MAY REQUIRE CUSTOM MODIFICATION TO PROPERLY FIT THE MODIFIED REGION OF THE STRUCTURE. THESE CUSTOM MOUNTS OR ATTACHMENTS ARE DESIGNED BY OTHERS AND MUST BE APPROVED BY THE OWNER/EOR PRIOR TO REMOVAL. ANY CARRIER DOWNTIME MUST BE COORDINATED WITH THE OWNER IN WRITING.
16. DO NOT SCALE DRAWINGS.

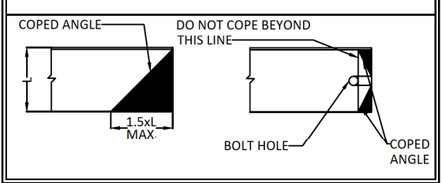
STRUCTURAL STEEL NOTES

1. ALL DETAILING, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE AISC SPECIFICATIONS, LATEST EDITION.
2. ALL STRUCTURAL STEEL ELEMENTS SHALL CONFORM TO THE FOLLOWING REQUIREMENTS.

MATERIAL SPECIFICATIONS	
ANGLES	ASTM A36 (36 KSI YIELD STRENGTH)
PIPES	ASTM A53 GR.B (35 KSI YIELD STRENGTH)
BOLTS	ASTM A325N
NUTS	ASTM A563
WASHER	ASTM F436
PLATE	ASTM A36 (36 KSI YIELD STRENGTH)
U-BOLTS	ASTM A307

3. ALL CONNECTIONS NOT FULLY DETAILED ON THESE PLANS SHALL BE DETAILED BY THE FABRICATOR IN ACCORDANCE WITH AISC SPECIFICATIONS, LATEST EDITION.
4. CAULKING SHALL BE PROVIDED AROUND PERIMETER OF ANY AND ALL MODIFICATION MEMBERS TO ENSURE COMPLETE SEAL BETWEEN EXISTING STRUCTURE AND REINFORCING MEMBERS IN FULL CONTACT WITH EXISTING STEEL. SEALANT IS TO BE EXTERIOR GRADE, PAINTABLE SILICONE CAULKING AS MANUFACTURED BY DOW AND ACCEPTABLE TO EOR.
5. HOLES SHALL NOT BE FLAME CUT THROUGH STEEL UNLESS APPROVED BY THE EOR.
6. ALL EXPOSED STEEL SHALL BE HOTXDIPPED GALVANIZED PER ASTM A123, ASTM A153/A153M, OR ASTM A653 G90, AS APPLICABLE FOR FULL WEATHER PROTECTION. FOR HIGH STRENGTH STEEL FASTENERS WHERE HOTXDIPPED GALVANIZING IS NOT PERMITTED DACROMET F1136 GRADE 3 COATING SHALL BE USED. IN ADDITION ALL NEW STEEL SHALL BE PAINTED TO MATCH EXISTING TOWER STEEL. CONTRACTOR SHALL OBTAIN EOR APPROVAL FOR STEEL PROTECTION BY ANY OTHER MEANS.
7. REPAIR DAMAGED PAINTED/GALVANIZED SURFACES WITH TWO COATS OF BRUSH OR ROLL ON ZRC COLD GALVANIZING COMPOUND OR EOR APPROVED COATING. SURFACES MUST BE WIRE BRUSHED AND SOLVENT CLEANED PRIOR TO APPLICATION OF GALVANIZING COMPOUND.
8. ALL BOLT ASSEMBLIES FOR STRUCTURAL MEMBERS REPRESENTED IN THIS DRAWING REQUIRE LOCKING DEVICES (LOCKING NUT/PAL NUT) TO BE INSTALLED IN ACCORDANCE WITH TIA/EIAX222 REQUIREMENTS.
9. ALL PROPOSED AND/OR REPLACED BOLTS SHALL BE OF SUFFICIENT LENGTH SUCH THAT THE END OF THE BOLT BE AT LEAST FLUSH WITH THE FACE OF THE NUT. IT IS NOT PERMITTED FOR THE BOLT END TO BE BELOW THE FACE OF THE NUT AFTER TIGHTENING IS COMPLETED.

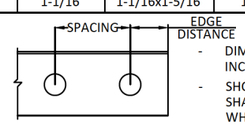
ALLOWABLE ANGLE COPE



1. ALL DIMENSIONS REPRESENTED IN THE ABOVE TABLES ARE AISC MINIMUM REQUIREMENTS. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN FIELD AND NOTIFY ENGINEER IF DISTANCES ARE LESS THAN THOSE PROVIDED.
2. THE DIMENSIONS PROVIDED ARE MINIMUM REQUIREMENTS. ACTUAL DIMENSIONS OF PROPOSED MEMBERS WITHIN THESE DRAWINGS MAY VARY FROM THE AISC MINIMUM REQUIREMENT.

BOLT SCHEDULE

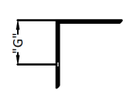
BOLT DIAMETER	STANDARD HOLE	SHORT SLOT	MIN. EDGE DISTANCE	SPACING
1/2	9/16	9/16x11/16	7/8	1-1/2
5/8	11/16	11/16x7/8	1-1/8	1-7/8
3/4	13/16	13/16x1	1-1/4	2-1/4
7/8	15/16	15/16x1-1/8	1-1/2	2-5/8
1	1-1/16	1-1/16x1-5/16	1-3/4	3



- DIMENSIONS GIVEN IN INCHES.
- SHORT SLOT HOLES SHALL ONLY BE USED WHEN DEPICTED ON THE PLANS.

WORKABLE GAGES

LEG	2-1/2	----	----
G	1-3/8	----	----



- DIMENSIONS GIVEN IN INCHES.
- MATCH EXISTING WHEN APPLICABLE.

PLANS PREPARED FOR:

CROWN CASTLE

PLANS PREPARED BY:

POD
POWER OF DESIGN
1033 E. TURKEYFOOT LAKE RD.
SUITE 206 AKRON, OHIO 44312
330-961-7432

CARRIER:

AT&T

DRAWING NOTICE:

MODIFICATION DRAWING

REV.	DATE	DESCRIPTION

SITE INFORMATION:

WINDSORDAY HILL
(10071331)

99 DAY HILL ROAD
WINDSOR, CT 06095

SITE NUMBER:

842875

POD NUMBER:	20-66002
DRAWN BY:	TAJ
CHECKED BY:	JGC
DATE:	11/03/2020

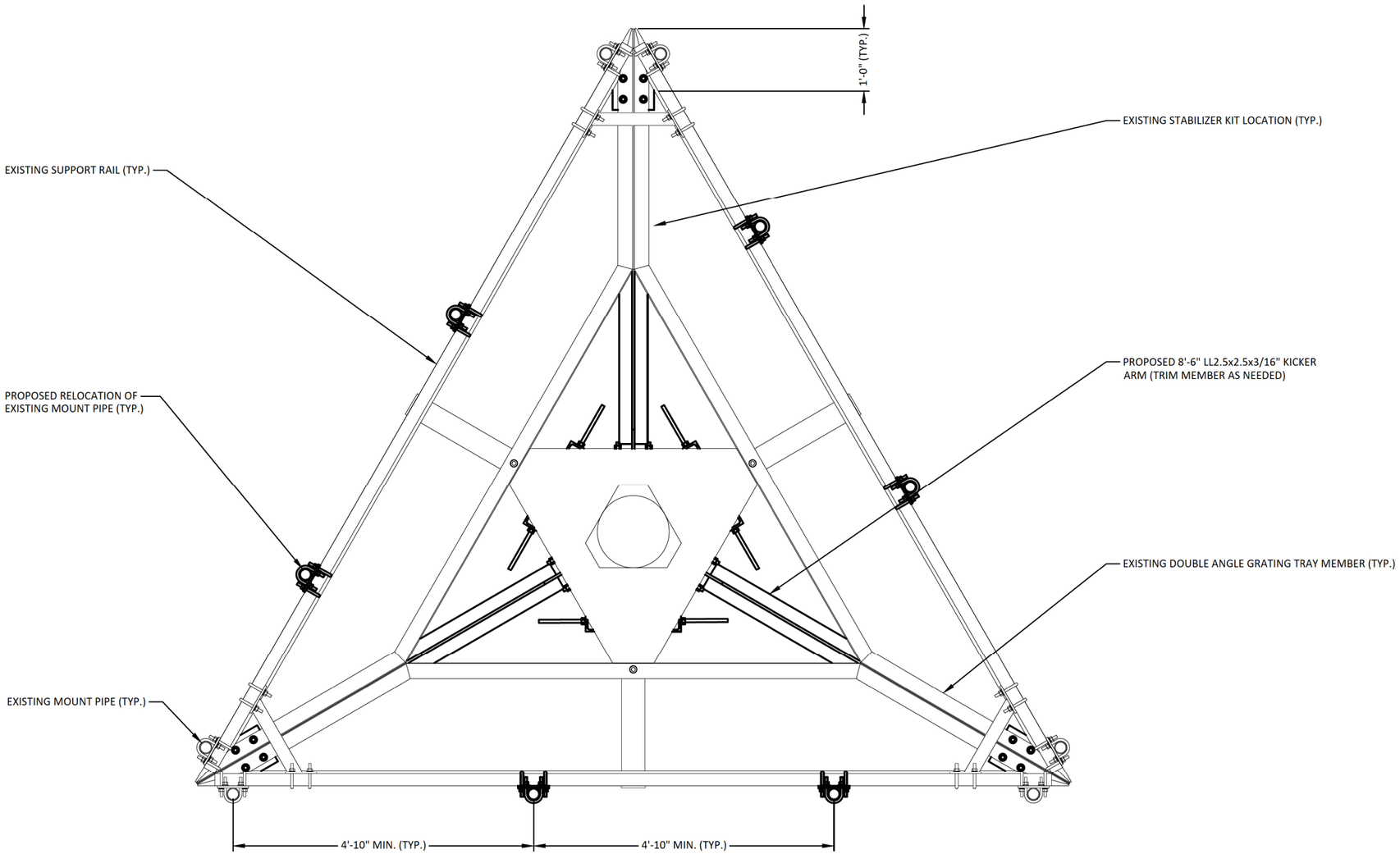
SHEET TITLE:

NOTES

N-01

NOTES:

- ANTENNAE & GRATING NOT SHOWN FOR CLARITY
- ALL FIELD DRILLED HOLES SHALL BE SOLVENT CLEANED AND TOUCHED UP WITH TWO COATS OF ZRC RICH PAINT
- EXCESS MATERIALS SHALL BE REMOVED AND DISPOSED OFF SITE BY THE CONTRACTOR



PLAN VIEW

1/2" = 1'-0"

PLANS PREPARED FOR:

CROWN CASTLE

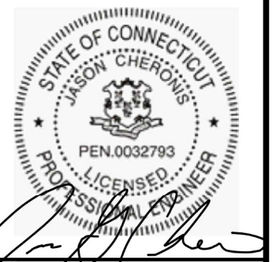
PLANS PREPARED BY:

POD
POWER OF DESIGN
1033 E. TURKEYFOOT LAKE RD.
SUITE 206 AKRON, OHIO 44312
330-961-7432

CARRIER:

AT&T

MODIFICATION DRAWING



REV.	DATE	DESCRIPTION

SITE INFORMATION:

WINDSORDAY HILL
(10071331)

99 DAY HILL ROAD
WINDSOR, CT 06095

SITE NUMBER:

842875

POD NUMBER:	20-66002
DRAWN BY:	TAJ
CHECKED BY:	JGC
DATE:	11/03/2020

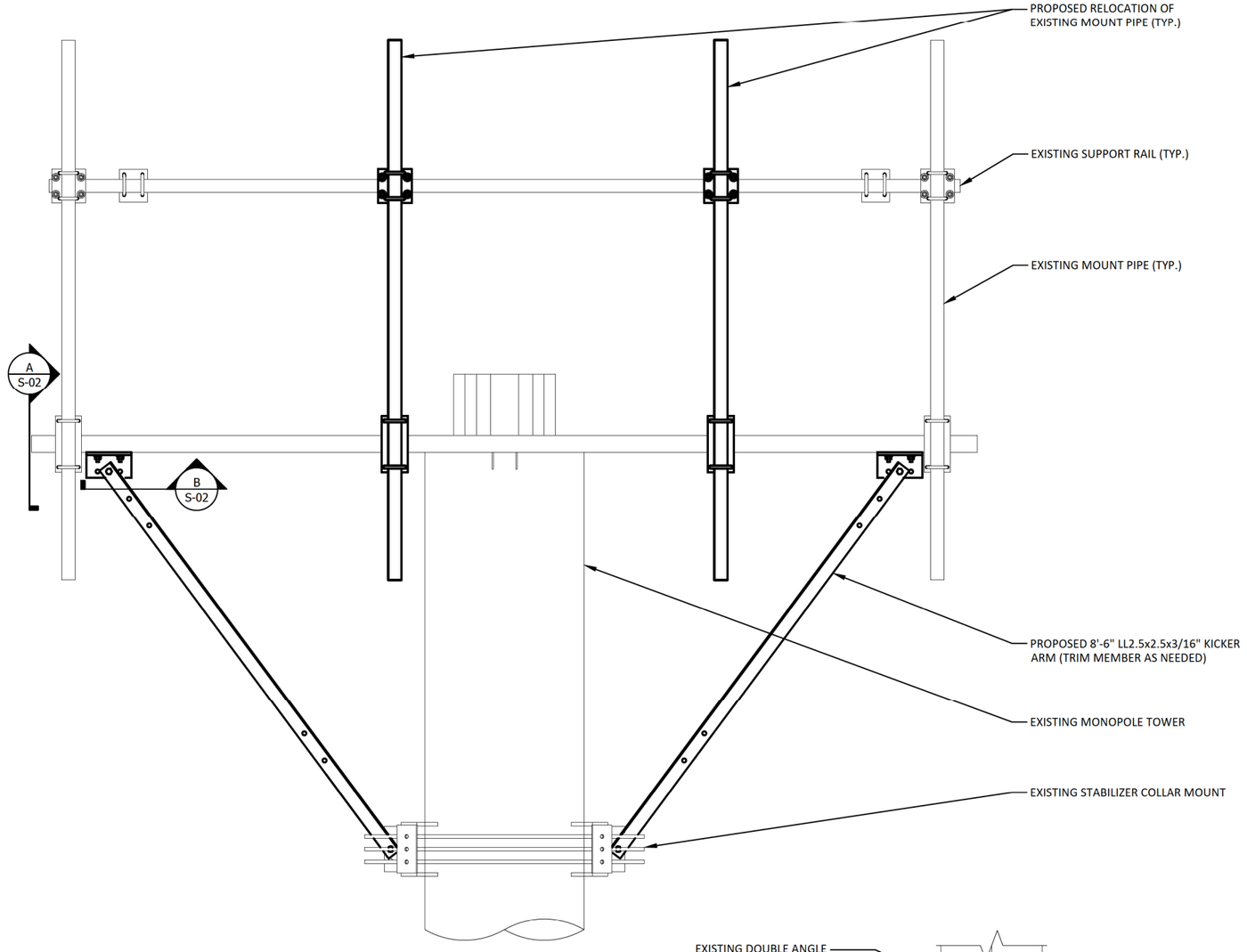
SHEET TITLE:

PLAN VIEW

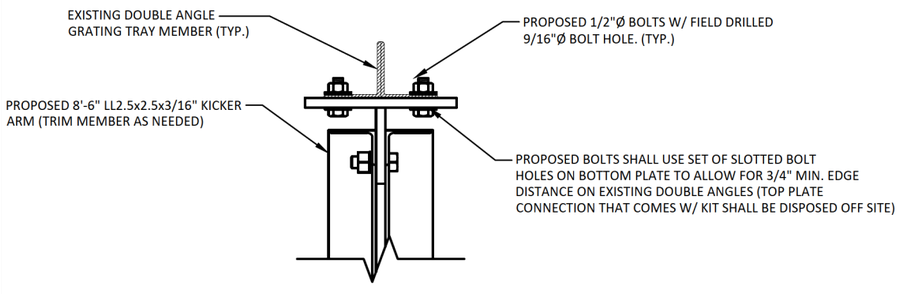
S-01

NOTES:

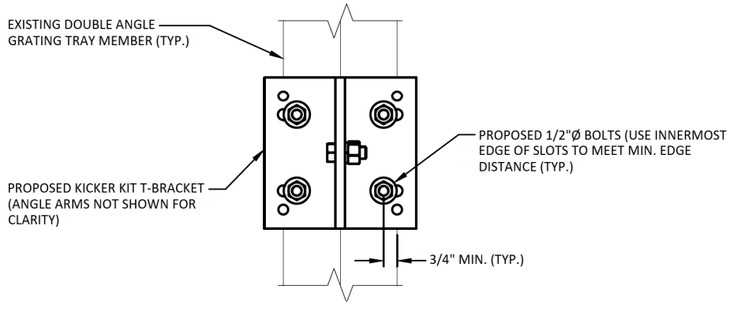
- ANTENNAE & GRATING NOT SHOWN FOR CLARITY
- ALL FIELD DRILLED HOLES SHALL BE SOLVENT CLEANED & TOUCHED UP WITH TWO COATS OF ZRC RICH PAINT
- EXCESS MATERIALS SHALL BE REMOVED AND DISPOSED OFF SITE BY THE CONTRACTOR



ELEVATION VIEW
1/2" = 1'-0"



SECTION A S-02
1-1/2" = 1'-0"



SECTION B S-02
1-1/2" = 1'-0"

PLANS PREPARED FOR:
CROWN CASTLE

PLANS PREPARED BY:
POD
POWER OF DESIGN
1033 E. TURKEYFOOT LAKE RD.
SUITE 206 AKRON, OHIO 44312
330-961-7432

CARRIER:
AT&T

MODIFICATION DRAWING

STATE OF CONNECTICUT
JASON CHERONIS
PEN.0032793
LICENSED PROFESSIONAL ENGINEER

REV.	DATE	DESCRIPTION

SITE INFORMATION:
WINDSORDAY HILL
(10071331)

99 DAY HILL ROAD
WINDSOR, CT 06095

SITE NUMBER:
842875

POD NUMBER:	20-66002
DRAWN BY:	TAJ
CHECKED BY:	JGC
DATE:	11/03/2020

SHEET TITLE:
ELEVATION & SECTION VIEWS

S-02

MODIFICATION INSPECTION CHECKLIST

BEFORE CONSTRUCTION		DURING CONSTRUCTION		AFTER CONSTRUCTION	
CONSTRUCTION/INSTALLATION INSPECTION AND TESTING REQUIRED (COMPLETED BY ENGINEER OF RECORD)	REPORT ITEM	CONSTRUCTION/INSTALLATION INSPECTION AND TESTING REQUIRED (COMPLETED BY ENGINEER OF RECORD)	REPORT ITEM	CONSTRUCTION/INSTALLATION INSPECTION AND TESTING REQUIRED (COMPLETED BY ENGINEER OF RECORD)	REPORT ITEM
X	MODIFICATION INSPECTION CHECKLIST DWG	X	CONSTRUCTION INSPECTION	X	MODIFICATION INSPECTOR REDLINE OR RECORD DRAWING(S)
-	ENGINEER OF RECORD APPROVED SHOP DRAWINGS	-	FOUNDATION INSPECTION	-	POST INSTALLED ANCHOR ROD PULL-OUT TESTING
-	FABRICATION INSPECTION	-	CONCRETE COMP. STRENGTH AND SLUMP TEST	X	PHOTOGRAPHS
X	MATERIAL TEST REPORT	-	POST INSTALLED ANCHOR ROD VERIFICATION	ADDITIONAL TESTING AND INSPECTION	
-	FABRICATOR NDE INSPECTION	-	BASE PLATE GROUT VERIFICATION		
-	NDE REPORT OF MONOPOLE BASEPLATE (AS REQUIRED)	-	THIRD PARTY CERTIFIED WELD INSPECTION		
X	PACKING SLIP	-	EARTHWORK LIFT AND DENSITY (REPORT REQUIRED)		
ADDITIONAL TESTING AND INSPECTION		X	ON SITE COLD GALVANIZING VERIFICATION		
		-	GUY WIRE TENSION REPORT		
		X	GC AS-BUILT DOCUMENTS		
		ADDITIONAL TESTING AND INSPECTION			

MODIFICATION INSPECTION NOTES:

GENERAL:

1. THE MODIFICATION INSPECTION IS A VISUAL INSPECTION OF TOWER MODIFICATION AND A REVIEW OF CONSTRUCTION INSPECTION AND OTHER REPORTS TO ENSURE THE INSTALLATION WAS CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. NAMELY THE MODIFICATION DRAWINGS., AS DESIGNED BY THE ENGINEER OF RECORD.

2. THE MODIFICATION INSPECTION IS TO CONFIRM INSTALLATION CONFIGURATION AND WORKMANSHIP ONLY AN IS NOT A REVIEW OF THE MODIFICATION DESIGN ITSELF. NOR DOES THE MODIFICATION INSPECTOR TAKE OWNERSHIP OF THE MODIFICATION DESIGN. OWNERSHIP OF THE STRUCTURAL MODIFICATION DESIGN EFFECTIVENESS AND INTENT RESIDES WITH THE ENGINEER OF RECORD AT ALL TIMES.

3. TO ENSURE THAT THE REQUIREMENT OF THE MODIFICATION INSPECTION ARE MET, IT IS VITAL THAT THE GENERAL CONTRACTOR (GC) AND THE MODIFICATION INSPECTOR BEGIN COMMUNICATION AND COORDINATING AS SOON AS A PO OR PAYMENT IS RECEIVED. IT IS EXPECTED THAT EACH PARTY WILL BE PROACTIVE IN REACHING OUT TO THE OTHER PARTY.

MODIFICATION INSPECTOR:

1. THE MODIFICATION INSPECTOR IS REQUIRED TO CONTACT THE GC AS SOON AS RECEIVING A PO OR PAYMENT FOR THE MODIFICATION INSPECTION TO:

- REVIEW THE REQUIREMENT OF THE MODIFICATION INSPECTION CHECKLIST
- WORK WITH THE GC TO DEVELOP A SCHEDULE TO CONDUCT ON-SITE
- INSPECTIONS
- DISCUSS ANY SITE SPECIFIC INSPECTIONS OR CONCERNS

2. THE MODIFICATION INSPECTOR IS RESPONSIBLE FOR COLLECTING ALL GENERAL CONTRACTOR (GC) INSPECTION AND TEST REPORTS. REVIEWING THE DOCUMENTS FOR ADHERENCE TO THE CONTRACT DOCUMENTS, CONDUCTING THE INXFEILD INSPECTIONS, AND SUBMITTING THE MODIFICATION INSPECTION REPORT.

GENERAL CONTRACTOR:

1. THE GC IS REQUIRED TO CONTACT THE MODIFICATION INSPECTOR AS SOON AS RECEIVING A PO OR PAYMENT FOR THE MODIFICATION INSTALLATION OR TURNKEY PROJECT TO:

- REVIEW THE REQUIREMENT OF THE MODIFICATION INSPECTION CHECKLIST
- WORK WITH THE MI INSPECTOR TO DEVELOP A SCHEDULE TO CONDUCT ON-SITE MODIFICATION INSPECTIONS, INCLUDING FOUNDATION INSPECTIONS
- BETTER UNDERSTAND ALL INSPECTION AND TESTING REQUIREMENTS

2. THE GC SHALL PERFORM AND RECORD THE TEST AND INSPECTION RESULTS IN ACCORDANCE WITH THE REQUIREMENTS OF THE MODIFICATION INSPECTION CHECKLIST.

RECOMMENDATIONS:

1. IT IS SUGGESTED THAT THE GC PROVIDE A MINIMUM OF 5 BUSINESS DAYS NOTICE, TO THE MODIFICATION INSPECTOR AS TO WHEN THE SITE WILL BE READY FOR HE MODIFICATION INSPECTION TO BE CONDUCTED.

- THE GC AND MODIFICATION INSPECTION COORDINATE CLOSELY THROUGHOUT THE ENTIRE PROJECT.
- WHEN POSSIBLE IT IS PREFERRED TO HAVE THE MODIFICATION INSPECTOR AND GC ON-SITE SIMULTANEOUSLY FOR ANY GUY WIRE TENSIONING OR REXTENSIONING OPERATIONS.
- IT MAY BE BENEFICIAL TO INSTALL ALL TOWER MODIFICATIONS PRIOR TO CONDUCTING THE FOUNDATION INSPECTION TO ALLOW FOUNDATION AND MODIFICATION INSPECTION(S) DONE IN ONE SITE VISIT.
- WHEN POSSIBLE, IT IS PREFERRED TO HAVE THE GC AND MODIFICATION INSPECTOR ON-SITE DURING THE MODIFICATION INSPECTION. THEREFORE, THE GC MAY CHOOSE TO COORDINATE THE MODIFICATION INSPECTION CAREFULLY TO ENSURE ALL CONSTRUCTION FACILITIES AT THEIR DISPOSAL WHEN THE MI INSPECTOR IS ON SITE.

CANCELLATION OR DELAYS IN SCHEDULED MODIFICATION INSPECTION:

1. IF THE GC AND MODIFICATION INSPECTOR AGREE TO A DATE ON WHICH THE MODIFICATION INSPECTION WILL BE CONDUCTED, AND EITHER ARTY CANCELS OR DELAYS, THE TOWER OWNER SHALL NOT BE RESPONSIBLE FOR ANY COSTS, FEES, LOSS OR DEPOSITS AND/OR OTHER PENALTIES RELATE TO THE CANCELLATION OR DELAY INCURRED BY EITHER PARTY FOR ANY TIME. EXCEPTIONS MAY BE MADE IN THE DELAY/ CANCELLATION IS CAUSED BY WEATHER OR OTHER CONDITIONS THAT MAY COMPROMISE THE SAFETY OF THE PARTIES INVOLVED.

CORRECTION OF FAILING MODIFICATION INSPECTION:

1. IF THE MODIFICATION INSTALLATION WOULD FAIL THE MODIFICATION INSPECTION ("FAILED MODIFICATION INSPECTION"), THE GC SHALL WORK WITH MODIFICATION INSPECTOR TO COORDINATE A REMEDIATION PLAN IN ONE OF TWO WAYS:

- CORRECT FAILING ISSUES TO COMPLY WITH THE SPECIFICATIONS CONTAINED IN THE ORIGINAL CONTRACT DOCUMENTS AND COORDINATE A SUPPLEMENT MODIFICATION INSPECTION. OR, WITH TOWER OWNER'S APPROVAL, THE GC MAY WORK WITH THE ENGINEER OF RECORD TO REXANALYZE THE MODIFCATION/REINFORCEMENT USING AS-BUILT CONDITION.

VERIFICATION INSPECTIONS:

1. TOWER OWNER RESERVES THE RIGHT TO CONDUCT A VERIFICATION INSPECTION TO VERIFY THE ACCURACY AND COMPLETENESS OF PREVIOUSLY COMPLETED MODIFICATION AND INSPECTION(S) ON TOWER MODIFICATION PRODUCTS.

2. VERIFICATION INSPECTION MAY BE CONDUCTED BY AN INDEPENDENT FIRM AFTER A MODIFICATION PROJECT IS COMPLETED, AS MARKED BY THE DATE OF AN ACCEPTED "PASSING MODIFICATION INSPECTION MODIFICATION INSPECTION" REPORT FOR THE ORIGINAL PROJECT.

REQUIRED PHOTOS:

1. BETWEEN THE GC AND THE MI INSPECTOR THE FOLLOWING PHOTOGRAPHS ARE TO BE TAKEN AND INCLUDED IN THE MODIFICATION INSPECTION REPORT:

- PREXCONSTRUCTION GENERAL SITE CONDITION
- PHOTOGRAPHS DURING THE REINFORCEMENT MODIFICATION CONSTRUCTION/ERECTION AND INSPECTION

  - RAW MATERIALS
  - PHOTOS OF ALL CRITICAL DETAILS
  - WELD PREPARATION
  - FOUNDATION MODIFICATION
  - BOLT INSTALLATION AND TORQUE
  - FINAL INSTALLED CONDITION
  - SURFACE COATING REPAIR

- POST CONDITION PHOTOGRAPHS
- FINAL INFIELD CONDITION ANY OTHER PHOTOS DEEMED RELEVANT TO SHOW COMPLETE DENTALS OF MODIFICATIONS

2. PHOTOS OF ELEVATED MODIFICATIONS TAKEN FROM THE GROUND SHALL BE CONSIDERED INADEQUATE.

PLANS PREPARED FOR:

CROWN CASTLE

PLANS PREPARED BY:

POD
POWER OF DESIGN
1033 E. TURKEYFOOT LAKE RD.
SUITE 206 AKRON, OHIO 44312
330-961-7432

CARRIER:

AT&T

MODIFICATION DRAWING

STATE OF CONNECTICUT
JASON CHERONIS
PEN.0032793
LICENSED
PROFESSIONAL ENGINEER

REV.	DATE	DESCRIPTION

SITE INFORMATION:
WINDSORDAY HILL
(10071331)

99 DAY HILL ROAD
WINDSOR, CT 06095

SITE NUMBER:
842875

POD NUMBER:	20-66002
DRAWN BY:	TAJ
CHECKED BY:	JGC
DATE:	11/03/2020

SHEET TITLE:
MODIFICATION CHECKLIST

MI-01

Exhibit D

Structural Analysis Report

Date: **November 05, 2020**

Cheryl Schultz
Crown Castle
6325 Ardrey Kell Rd Suite 600
Charlotte, NC 28277

Crown Castle
2000 Corporate Drive
Canonsburg, PA 15317
724-416-2000

Subject:	**Structural Analysis Report**	
Carrier Designation:	***AT&T Mobility* Co-Locate**	
	Carrier Site Number:	14489
	Carrier Site Name:	CTL05139
Crown Castle Designation:	**Crown Castle BU Number:**	842875
	Crown Castle Site Name:	WINDSORDAY HILL
	Crown Castle JDE Job Number:	605393
	Crown Castle Work Order Number:	1898135
	Crown Castle Order Number:	517092 Rev. 0
Engineering Firm Designation:	**Crown Castle Project Number:**	1898135
Site Data:	**99 DAY HILL ROAD, WINDSOR, Hartford County, CT** **Latitude *41° 52' 16.1"*, Longitude *-72° 40' 16"*** **168 Foot - Monopole Tower**	

Dear Cheryl Schultz,

Crown Castle is pleased to submit this **"Structural Analysis Report"** to determine the structural integrity of the above-mentioned tower.

The purpose of the analysis is to determine acceptability of the tower stress level. Based on our analysis we have determined the tower stress level for the structure and foundation, under the following load case, to be:

LC7: Proposed Equipment Configuration **Sufficient Capacity-91.7%**

This analysis utilizes an ultimate 3-second gust wind speed of 125 mph as required by the 2018 Connecticut Building Code & the 2015 International Building Code. Applicable Standard references and design criteria are listed in Section 2 - Analysis Criteria.

Structural analysis prepared by: Bernadette Rossmiller

Respectfully submitted by:

Digitally signed by Maham Barimani
Date: 2020.11.06 11:34:44 -05'00'

STATE OF CONNECTICUT
MAHAM BARIMANI
30501
LICENSED
PROFESSIONAL ENGINEER

Maham Barimani, P.E.
Senior Project Engineer

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1) INTRODUCTION

This tower is a 168 ft Monopole tower designed by SUMMIT MANUFACTURING.

2) ANALYSIS CRITERIA

TIA-222 Revision:	TIA-222-H
Risk Category:	II
Wind Speed:	125
Exposure Category:	C
Topographic Factor:	1
Ice Thickness:	2 in
Wind Speed with Ice:	50 mph
Service Wind Speed:	60 mph

Table 1 - Proposed Equipment Configuration

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
168.0	168.0	2	cci antennas	DMP65R-BU6D w/ Mount Pipe	2 6 12	3/8 3/4 1-5/8
		1	cci antennas	DMP65R-BU8D w/ Mount Pipe		
		3	cci antennas	DTMABP7819VG12A		
		1	cci antennas	TPA-65R-LCUUUU-H8 w/ Mount Pipe		
		3	ericsson	RRUS 32 B30		
		3	ericsson	RRUS 32 B66		
		3	ericsson	RRUS 4415 B25		
		3	ericsson	RRUS 4449 B5/B12		
		3	ericsson	RRUS 4478 B14		
		3	kathrein	800 10121 w/ Mount Pipe		
		2	kathrein	80010965 w/ Mount Pipe		
		1	kathrein	80010966 w/ Mount Pipe		
		6	kathrein	860 10025		
		2	quintel technology	QS66512-2 w/ Mount Pipe		
		1	raycap	DC6-48-60-0-8F		
		2	raycap	DC6-48-60-18-8F		
		1	tower mounts	Platform Mount [LP 1201-1_KCKR-HR-1]		

Table 2 - Other Considered Equipment

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
168.0	170.0	1	rfi antennas	CC807-08	1	1-1/4
160.0	165.0	3	andrew	VHLP2.5-11	3 3	5/16 1/2
	164.0	2	dragonwave	Horizon Compact		
	160.0	3	argus technologies	LLPX310R-V1 w/ Mount Pipe		
		3	samsung telecommunications	RRH-2WB		

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
		1	tower mounts	Platform Mount [LP 1201-1]		
	156.0	1	dragonwave	Horizon Compact		
		1	rosenberger leoni	FB-15-ABOX		
152.0	152.0	1	Rfs celwave	SC3-W100ASTX	1	Elliptical
		1	tower mounts	Pipe Mount [PM 601-1]		
147.0	148.0	1	Rfs celwave	SC3-W100ASTX	1	EU90FR
		1	rfi antennas	BPA7496-180-11 w/ Mount Pipe	1	1/2
	147.0	1	tower mounts	Pipe Mount [PM 602-1]		
143.0	143.0	1	pctel	MPRD2449	1	1/4
		1	kathrein	782 10876		
		1	tower mounts	Pipe Mount [PM 601-1]		
140.0	148.0	1	bird technologies group	432E-83I-01-T	1	1/4
		2	rfi antennas	CC807-11	2	7/8
		1	telewave	ANT450F6		
	140.0	1	ericsson	RIU		
		1	motorola	PTP400 w/ Mount Pipe		
		1	tower mounts	Side Arm Mount [SO 102-3]		
		2	tower mounts	Side Arm Mount [SO 702-1]		
135.0	144.0	2	telewave	ANT450F6	2	1/2
	135.0	2	tower mounts	Side Arm Mount [SO 702-1]		
130.0	131.0	3	alcatel lucent	1900MHZ RRH	3 1 2	5/16 1/2 1-1/4
		3	alcatel lucent	TD-RRH8x20-25		
		3	rfs celwave	APXV9ERR18-C-A20 w/ Mount Pipe		
		3	rfs celwave	APXVTM14-C-120 w/ Mount Pipe		
	130.0	3	alcatel lucent	800MHZ 2X50W RRH W/FILTER		
		1	tower mounts	Platform Mount [LP 1201-1]		
120.0	120.0	3	rfs celwave	APL199016-42T0	6	1-5/8
		1	tower mounts	Pipe Mount [PM 602-3]		
100.0	100.0	1	rfs celwave	SC3-W100AMPT	1	EU90FR
		1	tower mounts	Pipe Mount [PM 602-1]		
79.0	79.0	2	tower mounts	Side Arm Mount [SO 901-1]	-	-
52.0	52.0	1	pctel	GPS-TMG-HR-26NCM	1	1/2
		1	tower mounts	Side Arm Mount [SO 701-1]		

3) ANALYSIS PROCEDURE

Table 3 - Documents Provided

Document	Remarks	Reference	Source
4-GEOTECHNICAL REPORTS	Northeast Electrical Testing, Inc.	4529457	CCISITES
4-TOWER FOUNDATION DRAWINGS/DESIGN/SPECS	Summit Manufacturing, LLC	4529456	CCISITES
4-TOWER MANUFACTURER DRAWINGS	Summit Manufacturing, LLC	4589719	CCISITES

3.1) Analysis Method

tnxTower (version 8.0.7.5), a commercially available analysis software package, was used to create a three-dimensional model of the tower and calculate member stresses for various loading cases. Selected output from the analysis is included in Appendix A. When applicable, Crown Castle has calculated and provided the effective area for panel antennas using approved methods following the intent of the TIA-222 Standard.

3.2) Assumptions

1) Tower and structures were maintained in accordance with the TIA-222 Standard.
2) The configuration of antennas, transmission cables, mounts and other appurtenances are as specified in Tables 1 and 2 and the referenced drawings.

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

4) ANALYSIS RESULTS

Table 4 - Section Capacity (Summary)

Section No.	Elevation (ft)	Component Type	Size	Critical Element	P (K)	SF*P_allow (K)	% Capacity	Pass / Fail
L1	168 - 119.25	Pole	TP34.288x24x0.25	1	-16.90	1615.32	61.6	Pass
L2	119.25 - 78.5	Pole	TP42.387x32.8911x0.2813	2	-24.97	2248.05	91.0	Pass
L3	78.5 - 38.75	Pole	TP50.213x40.7166x0.375	3	-36.52	3547.28	78.2	Pass
L4	38.75 - 0	Pole	TP57.64x48.1441x0.375	4	-52.11	4186.71	91.7	Pass
							Summary	
						Pole (L4)	91.7	Pass
						Rating =	91.7	Pass

Table 5 - Tower Component Stresses vs. Capacity - LC7

Notes	Component	Elevation (ft)	% Capacity	Pass / Fail
1	Anchor Rods	0	80.5	Pass
1	Base Plate	0	61.7	Pass
1	Base Foundation (Structure)	0	77.5	Pass
1	Base Foundation (Soil Interaction)	0	31.0	Pass

Structure Rating (max from all components) =	91.7%

Notes:

1) See additional documentation in “Appendix C – Additional Calculations” for calculations supporting the % capacity consumed.

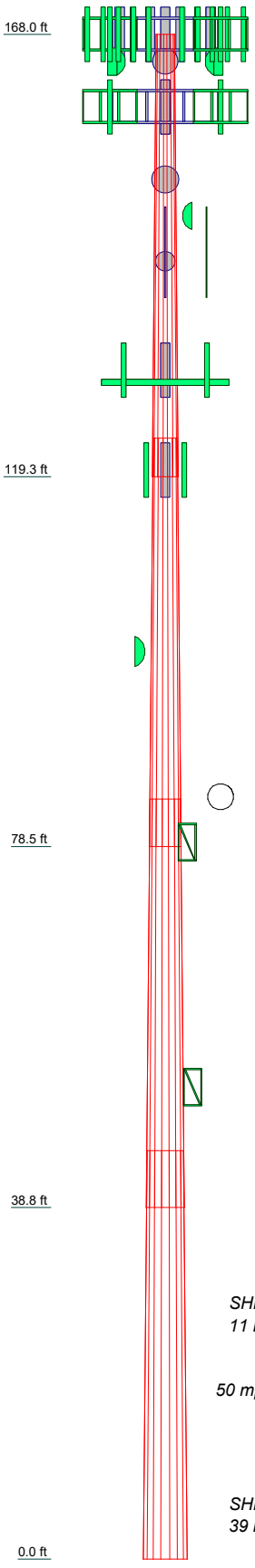
4.1) Recommendations

The tower and its foundation have sufficient capacity to carry the proposed load configuration. No modifications are required at this time.

APPENDIX A

TNXTOWER OUTPUT

Section	Length (ft)	Number of Sides	Thickness (in)	Socket Length (ft)	Top Dia (in)	Bot Dia (in)	Grade	Weight (K)
1	48.75	18	0.2500	4.25	24.0000	34.2880	A607-65	3.8
2	45.00	18	0.2813	5.25	32.8911	42.3870		5.1
3	45.00	18	0.3750	6.25	40.7166	50.2130		8.2
4	45.00	18	0.3750		48.1441	57.6400		9.6
								26.7



ALL REACTIONS ARE FACTORED

AXIAL 95 K

SHEAR 11 K — *MOMENT 1410 kip-ft*

TORQUE 1 kip-ft
50 mph WIND - 2.0000 in ICE

AXIAL 52 K

SHEAR 39 K — *MOMENT 4847 kip-ft*

TORQUE 3 kip-ft
REACTIONS - 125 mph WIND

MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A607-65	65 ksi	80 ksi			

TOWER DESIGN NOTES

1. Tower is located in Hartford County, Connecticut.
2. Tower designed for Exposure C to the TIA-222-H Standard.
3. Tower designed for a 125 mph basic wind in accordance with the TIA-222-H Standard.
4. Tower is also designed for a 50 mph basic wind with 2.00 in ice. Ice is considered to increase in thickness with height.
5. Deflections are based upon a 60 mph wind.
6. Tower Risk Category II.
7. Topographic Category 1 with Crest Height of 0.00 ft
8. TOWER RATING: 91.7%

CROWN CASTLE
The Pathway to Possible

Crown Castle
2000 Corporate Drive
Canonsburg, PA 15317
Phone: 724-416-2000
FAX:

Job: ***BU# 842875***			
Project:			
Client: Crown Castle	Drawn by: BRossmiller		App'd:
Code: TIA-222-H	Date: 11/05/20		Scale: NTS
Path: C:\Users\brossmiller\Desktop\temporary\842875\WO 1898135 - SA\Prod\842875_RPA.eri			Dwg No. E-1

Tower Input Data

The tower is a monopole.
This tower is designed using the TIA-222-H standard.
The following design criteria apply:

3) Tower is located in Hartford County, Connecticut.
4) Tower base elevation above sea level: 166.00 ft.
5) Basic wind speed of 125 mph.
6) Risk Category II.
7) Exposure Category C.
8) Simplified Topographic Factor Procedure for wind speed-up calculations is used.
9) Topographic Category: 1.
10) Crest Height: 0.00 ft.
11) Nominal ice thickness of 2.0000 in.
12) Ice thickness is considered to increase with height.
13) Ice density of 56.00 pcf.
14) A wind speed of 50 mph is used in combination with ice.
15) Temperature drop of 50 °F.
16) Deflections calculated using a wind speed of 60 mph.
17) A non-linear (P-delta) analysis was used.
18) Pressures are calculated at each section.
19) Stress ratio used in pole design is 1.05.
20) Tower analysis based on target reliabilities in accordance with Annex S.
21) Load Modification Factors used: $K_{es}(F_w) = 0.95$, $K_{es}(t_i) = 0.85$.
22) Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

Options

Consider Moments - Legs	Distribute Leg Loads As Uniform	Use ASCE 10 X-Brace Ly Rules
Consider Moments - Horizontals	Assume Legs Pinned	Calculate Redundant Bracing Forces
Consider Moments - Diagonals	√ Assume Rigid Index Plate	Ignore Redundant Members in FEA
Use Moment Magnification	√ Use Clear Spans For Wind Area	SR Leg Bolts Resist Compression
Use Code Stress Ratios	Use Clear Spans For KL/r	All Leg Panels Have Same Allowable
√ Use Code Safety Factors - Guys	Retension Guys To Initial Tension	Offset Girt At Foundation
Escalate Ice	√ Bypass Mast Stability Checks	√ Consider Feed Line Torque
Always Use Max Kz	√ Use Azimuth Dish Coefficients	Include Angle Block Shear Check
Use Special Wind Profile	√ Project Wind Area of Appurt.	Use TIA-222-H Bracing Resist. Exemption
Include Bolts In Member Capacity	Autocalc Torque Arm Areas	Use TIA-222-H Tension Splice Exemption
Leg Bolts Are At Top Of Section	Add IBC .6D+W Combination	Poles
Secondary Horizontal Braces Leg	√ Sort Capacity Reports By Component	√ Include Shear-Torsion Interaction
Use Diamond Inner Bracing (4 Sided)	Triangulate Diamond Inner Bracing	Always Use Sub-Critical Flow
SR Members Have Cut Ends	Treat Feed Line Bundles As Cylinder	Use Top Mounted Sockets
SR Members Are Concentric	Ignore KL/ry For 60 Deg. Angle Legs	Pole Without Linear Attachments
		Pole With Shroud Or No Appurtenances
		Outside and Inside Corner Radii Are Known

Tapered Pole Section Geometry

Section	Elevation ft	Section Length ft	Splice Length ft	Number of Sides	Top Diameter in	Bottom Diameter in	Wall Thickness in	Bend Radius in	Pole Grade
L1	168.00-119.25	48.75	4.25	18	24.0000	34.2880	0.2500	1.0000	A607-65 (65 ksi)
L2	119.25-78.50	45.00	5.25	18	32.8911	42.3870	0.2813	1.1250	A607-65

Section	Elevation ft	Section Length ft	Splice Length ft	Number of Sides	Top Diameter in	Bottom Diameter in	Wall Thickness in	Bend Radius in	Pole Grade
L3	78.50-38.75	45.00	6.25	18	40.7166	50.2130	0.3750	1.5000	(65 ksi) A607-65 (65 ksi)
L4	38.75-0.00	45.00		18	48.1441	57.6400	0.3750	1.5000	A607-65 (65 ksi)

Tapered Pole Properties

Section	Tip Dia. in	Area in^2	I in^4	r in	C in	I/C in^3	J in^4	It/Q in^2	w in	w/t
L1	24.3317	18.8456	1342.9976	8.4313	12.1920	110.1540	2687.7623	9.4246	3.7840	15.136
	34.7784	27.0092	3953.4521	12.0835	17.4183	226.9711	7912.1063	13.5071	5.5947	22.379
L2	34.2658	29.1104	3910.9583	11.5765	16.7087	234.0675	7827.0628	14.5580	5.2938	18.823
	42.9975	37.5873	8419.0120	14.9475	21.5326	390.9892	16849.1019	18.7972	6.9651	24.765
L3	42.4119	48.0166	9872.7116	14.3213	20.6841	477.3102	19758.4140	24.0129	6.5061	17.35
	50.9298	59.3197	18614.7607	17.6925	25.5082	729.7558	37254.0152	29.6655	8.1775	21.807
L4	50.1681	56.8571	16391.3899	16.9580	24.4572	670.2076	32804.3480	28.4340	7.8134	20.836
	58.4713	68.1597	28238.6178	20.3291	29.2811	964.3968	56514.3927	34.0863	9.4846	25.292

Tower Elevation ft	Gusset Area (per face) ft^2	Gusset Thickness in	Gusset Grade	Adjust. Factor A_f	Adjust. Factor A_r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontals in	Double Angle Stitch Bolt Spacing Redundants in
L1 168.00-119.25				1	1	1			
L2 119.25-78.50				1	1	1			
L3 78.50-38.75				1	1	1			
L4 38.75-0.00				1	1	1			

Feed Line/Linear Appurtenances - Entered As Round Or Flat

Description	Sector	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	Number Per Row	Start/End Position	Width or Diameter in	Perimeter in	Weight plf
*** 52 *** LDF4-50A(1/2) ***	B	No	Surface Ar (CaAa)	52.00 - 0.00	1	1	0.000 0.020	0.6300		0.15

Feed Line/Linear Appurtenances - Entered As Area

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number		C_AA_A ft^2/ft	Weight plf
*** 168 *** LDF7-50A(1-5/8)	C	No	No	Inside Pole	168.00 - 0.00	12	No Ice	0.00	0.82
							1/2" Ice	0.00	0.82

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number		C_AA_A ft^2/ft	Weight plf
							1" Ice	0.00	0.82
							2" Ice	0.00	0.82
FB-L98B-034-XXXXXX(3/8)	C	No	No	Inside Pole	168.00 - 0.00	2	No Ice	0.00	0.05
							1/2" Ice	0.00	0.05
							1" Ice	0.00	0.05
							2" Ice	0.00	0.05
WR-VG86ST-BRD(3/4)	C	No	No	Inside Pole	168.00 - 0.00	4	No Ice	0.00	0.58
							1/2" Ice	0.00	0.58
							1" Ice	0.00	0.58
							2" Ice	0.00	0.58
WR-VG86ST-BRD(3/4)	C	No	No	Inside Pole	168.00 - 0.00	2	No Ice	0.00	0.58
							1/2" Ice	0.00	0.58
							1" Ice	0.00	0.58
							2" Ice	0.00	0.58
*** 160 ***									
ATCB-B01-003(5/16)	B	No	No	Inside Pole	160.00 - 0.00	3	No Ice	0.00	0.07
							1/2" Ice	0.00	0.07
							1" Ice	0.00	0.07
							2" Ice	0.00	0.07
LDF4-50A(1/2)	B	No	No	Inside Pole	160.00 - 0.00	3	No Ice	0.00	0.15
							1/2" Ice	0.00	0.15
							1" Ice	0.00	0.15
							2" Ice	0.00	0.15
*** 152 ***									
EU 90-FR(ELLIPTICAL)	A	No	No	Inside Pole	152.00 - 0.00	1	No Ice	0.00	0.34
							1/2" Ice	0.00	0.34
							1" Ice	0.00	0.34
							2" Ice	0.00	0.34
*** 147 ***									
LDF4-50A(1/2)	A	No	No	Inside Pole	147.00 - 0.00	1	No Ice	0.00	0.15
							1/2" Ice	0.00	0.15
							1" Ice	0.00	0.15
							2" Ice	0.00	0.15
EU 90-FR(ELLIPTICAL)	A	No	No	Inside Pole	147.00 - 0.00	1	No Ice	0.00	0.34
							1/2" Ice	0.00	0.34
							1" Ice	0.00	0.34
							2" Ice	0.00	0.34
*** 143 ***									
LDF1-50A(1/4)	A	No	No	Inside Pole	143.00 - 0.00	1	No Ice	0.00	0.06
							1/2" Ice	0.00	0.06
							1" Ice	0.00	0.06
							2" Ice	0.00	0.06
*** 140 ***									
CAT5e(1/4)	A	No	No	Inside Pole	140.00 - 0.00	1	No Ice	0.00	0.04
							1/2" Ice	0.00	0.04
							1" Ice	0.00	0.04
							2" Ice	0.00	0.04
LDF5-50A(7/8)	A	No	No	Inside Pole	140.00 - 0.00	2	No Ice	0.00	0.33
							1/2" Ice	0.00	0.33
							1" Ice	0.00	0.33
							2" Ice	0.00	0.33
*** 135 ***									
LDF4-50A(1/2)	A	No	No	Inside Pole	135.00 - 0.00	2	No Ice	0.00	0.15
							1/2" Ice	0.00	0.15
							1" Ice	0.00	0.15
							2" Ice	0.00	0.15
*** 130 ***									
ATCB-B01-006(5/16)	B	No	No	Inside Pole	130.00 - 0.00	3	No Ice	0.00	0.07
							1/2" Ice	0.00	0.07
							1" Ice	0.00	0.07
							2" Ice	0.00	0.07
HB114-13U3M12-XXXF(1-1/4)	B	No	No	Inside Pole	130.00 - 0.00	2	No Ice	0.00	0.99
							1/2" Ice	0.00	0.99
							1" Ice	0.00	0.99
							2" Ice	0.00	0.99
HYBRIFLEX RRH 1-SECTOR(1/2)	B	No	No	Inside Pole	130.00 - 0.00	1	No Ice	0.00	0.20
							1/2" Ice	0.00	0.20
							1" Ice	0.00	0.20

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number		C_AA_A ft^2/ft	Weight plf
							2" Ice	0.00	0.20
*** 120 ***									
LDF7-50A(1-5/8)	C	No	No	Inside Pole	120.00 - 0.00	6	No Ice	0.00	0.82
							1/2" Ice	0.00	0.82
							1" Ice	0.00	0.82
							2" Ice	0.00	0.82
****									
EU 90-FR(ELLIPTICAL)	A	No	No	Inside Pole	100.00 - 0.00	1	No Ice	0.00	0.34
							1/2" Ice	0.00	0.34
							1" Ice	0.00	0.34
							2" Ice	0.00	0.34
***									
LDF6-50A(1-1/4)	A	No	No	Inside Pole	168.00 - 0.00	1	No Ice	0.00	0.60
							1/2" Ice	0.00	0.60
							1" Ice	0.00	0.60
							2" Ice	0.00	0.60
***									

Feed Line/Linear Appurtenances Section Areas

Tower Section	Tower Elevation ft	Face	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
L1	168.00-119.25	A	0.000	0.000	0.000	0.000	0.07
		B	0.000	0.000	0.000	0.000	0.05
		C	0.000	0.000	0.000	0.000	0.66
L2	119.25-78.50	A	0.000	0.000	0.000	0.000	0.11
		B	0.000	0.000	0.000	0.000	0.12
		C	0.000	0.000	0.000	0.000	0.75
L3	78.50-38.75	A	0.000	0.000	0.000	0.000	0.11
		B	0.000	0.000	0.835	0.000	0.12
		C	0.000	0.000	0.000	0.000	0.73
L4	38.75-0.00	A	0.000	0.000	0.000	0.000	0.11
		B	0.000	0.000	2.441	0.000	0.12
		C	0.000	0.000	0.000	0.000	0.71

Feed Line/Linear Appurtenances Section Areas - With Ice

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
L1	168.00-119.25	A	1.968	0.000	0.000	0.000	0.000	0.07
		B		0.000	0.000	0.000	0.000	0.05
		C		0.000	0.000	0.000	0.000	0.66
L2	119.25-78.50	A	1.896	0.000	0.000	0.000	0.000	0.11
		B		0.000	0.000	0.000	0.000	0.12
		C		0.000	0.000	0.000	0.000	0.75
L3	78.50-38.75	A	1.800	0.000	0.000	0.000	0.000	0.11
		B		0.000	0.000	5.859	0.000	0.20
		C		0.000	0.000	0.000	0.000	0.73
L4	38.75-0.00	A	1.613	0.000	0.000	0.000	0.000	0.11
		B		0.000	0.000	16.390	0.000	0.33
		C		0.000	0.000	0.000	0.000	0.71

Feed Line Center of Pressure

Section	Elevation	CP_X	CP_Z	CP_X Ice	CP_Z Ice
	ft	in	in	in	in
L1	168.00-119.25	0.0000	0.0000	0.0000	0.0000
L2	119.25-78.50	0.0000	0.0000	0.0000	0.0000
L3	78.50-38.75	0.1591	-0.0874	0.6172	-0.3393
L4	38.75-0.00	0.4441	-0.2442	1.6254	-0.8936

Note: For pole sections, center of pressure calculations do not consider feed line shielding.

Shielding Factor Ka

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L3	28	LDF4-50A(1/2)	38.75 - 52.00	1.0000	1.0000
L4	28	LDF4-50A(1/2)	0.00 - 38.75	1.0000	1.0000

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
*** 168 ***									
800 10121 w/ Mount Pipe	A	From Leg	4.00 0.00 0.00	0.0000	168.00	No Ice 1/2" Ice 1" Ice 2" Ice	3.60 4.00 4.42 5.29	2.95 3.34 3.74 4.59	0.07 0.11 0.17 0.30
800 10121 w/ Mount Pipe	B	From Leg	4.00 0.00 0.00	0.0000	168.00	No Ice 1/2" Ice 1" Ice 2" Ice	3.60 4.00 4.42 5.29	2.95 3.34 3.74 4.59	0.07 0.11 0.17 0.30
800 10121 w/ Mount Pipe	C	From Leg	4.00 0.00 0.00	0.0000	168.00	No Ice 1/2" Ice 1" Ice 2" Ice	3.60 4.00 4.42 5.29	2.95 3.34 3.74 4.59	0.07 0.11 0.17 0.30
80010966 w/ Mount Pipe	A	From Leg	4.00 0.00 0.00	0.0000	168.00	No Ice 1/2" Ice 1" Ice 2" Ice	14.61 15.47 16.35 18.14	6.84 7.63 8.42 10.06	0.16 0.27 0.39 0.68
80010965 w/ Mount Pipe	B	From Leg	4.00 0.00 0.00	0.0000	168.00	No Ice 1/2" Ice 1" Ice 2" Ice	12.26 13.03 13.80 15.41	5.79 6.47 7.17 8.60	0.14 0.23 0.33 0.57
80010965 w/ Mount Pipe	C	From Leg	4.00 0.00 0.00	0.0000	168.00	No Ice 1/2" Ice 1" Ice	12.26 13.03 13.80 15.41	5.79 6.47 7.17 8.60	0.14 0.23 0.33 0.57

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
						2" Ice			
QS66512-2 w/ Mount Pipe	B	From Leg	4.00 0.00 0.00	0.0000	168.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.04 4.42 4.82 5.63	4.18 4.57 4.97 5.79	0.14 0.21 0.29 0.48
QS66512-2 w/ Mount Pipe	C	From Leg	4.00 0.00 0.00	0.0000	168.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.04 4.42 4.82 5.63	4.18 4.57 4.97 5.79	0.14 0.21 0.29 0.48
TPA-65R-LCUUUU-H8 w/ Mount Pipe	A	From Leg	4.00 0.00 0.00	0.0000	168.00	No Ice 1/2" Ice 1" Ice 2" Ice	11.85 12.77 13.71 15.64	8.99 9.88 10.79 12.66	0.11 0.21 0.32 0.58
DMP65R-BU6D w/ Mount Pipe	A	From Leg	4.00 0.00 0.00	0.0000	168.00	No Ice 1/2" Ice 1" Ice 2" Ice	11.96 12.70 13.46 15.02	5.97 6.63 7.30 8.69	0.11 0.20 0.30 0.53
DMP65R-BU6D w/ Mount Pipe	B	From Leg	4.00 0.00 0.00	0.0000	168.00	No Ice 1/2" Ice 1" Ice 2" Ice	11.96 12.70 13.46 15.02	5.97 6.63 7.30 8.69	0.11 0.20 0.30 0.53
DMP65R-BU8D w/ Mount Pipe	C	From Leg	4.00 0.00 0.00	0.0000	168.00	No Ice 1/2" Ice 1" Ice 2" Ice	15.89 16.81 17.76 19.70	7.89 8.74 9.60 11.37	0.14 0.25 0.38 0.68
DTMABP7819VG12A	A	From Leg	4.00 0.00 0.00	0.0000	168.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.98 1.10 1.23 1.52	0.34 0.42 0.51 0.71	0.02 0.03 0.04 0.06
DTMABP7819VG12A	B	From Leg	4.00 0.00 0.00	0.0000	168.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.98 1.10 1.23 1.52	0.34 0.42 0.51 0.71	0.02 0.03 0.04 0.06
DTMABP7819VG12A	C	From Leg	4.00 0.00 0.00	0.0000	168.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.98 1.10 1.23 1.52	0.34 0.42 0.51 0.71	0.02 0.03 0.04 0.06
(2) 860 10025	A	From Leg	4.00 0.00 0.00	0.0000	168.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.14 0.20 0.26 0.41	0.12 0.17 0.23 0.38	0.00 0.00 0.01 0.01
(2) 860 10025	B	From Leg	4.00 0.00 0.00	0.0000	168.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.14 0.20 0.26 0.41	0.12 0.17 0.23 0.38	0.00 0.00 0.01 0.01
(2) 860 10025	C	From Leg	4.00 0.00 0.00	0.0000	168.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.14 0.20 0.26 0.41	0.12 0.17 0.23 0.38	0.00 0.00 0.01 0.01
(2) DC6-48-60-18-8F	B	From Leg	4.00 0.00 0.00	0.0000	168.00	No Ice 1/2" Ice 1" Ice	1.21 1.89 2.11 2.57	1.21 1.89 2.11 2.57	0.02 0.04 0.07 0.13

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
						2" Ice			
RRUS 4449 B5/B12	A	From Leg	4.00 0.00 0.00	0.0000	168.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.97 2.14 2.33 2.72	1.41 1.56 1.73 2.07	0.07 0.09 0.11 0.16
RRUS 4449 B5/B12	B	From Leg	4.00 0.00 0.00	0.0000	168.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.97 2.14 2.33 2.72	1.41 1.56 1.73 2.07	0.07 0.09 0.11 0.16
RRUS 4449 B5/B12	C	From Leg	4.00 0.00 0.00	0.0000	168.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.97 2.14 2.33 2.72	1.41 1.56 1.73 2.07	0.07 0.09 0.11 0.16
RRUS 4415 B25	A	From Leg	4.00 0.00 0.00	0.0000	168.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.64 1.80 1.97 2.33	0.68 0.79 0.91 1.18	0.04 0.06 0.07 0.11
RRUS 4415 B25	B	From Leg	4.00 0.00 0.00	0.0000	168.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.64 1.80 1.97 2.33	0.68 0.79 0.91 1.18	0.04 0.06 0.07 0.11
RRUS 4415 B25	C	From Leg	4.00 0.00 0.00	0.0000	168.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.64 1.80 1.97 2.33	0.68 0.79 0.91 1.18	0.04 0.06 0.07 0.11
RRUS 4478 B14	A	From Leg	4.00 0.00 0.00	0.0000	168.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.84 2.01 2.19 2.57	1.06 1.20 1.34 1.66	0.06 0.08 0.09 0.14
RRUS 4478 B14	B	From Leg	4.00 0.00 0.00	0.0000	168.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.84 2.01 2.19 2.57	1.06 1.20 1.34 1.66	0.06 0.08 0.09 0.14
RRUS 4478 B14	C	From Leg	4.00 0.00 0.00	0.0000	168.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.84 2.01 2.19 2.57	1.06 1.20 1.34 1.66	0.06 0.08 0.09 0.14
RRUS 32 B66	A	From Leg	4.00 0.00 0.00	0.0000	168.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.74 2.96 3.19 3.68	1.67 1.86 2.05 2.46	0.05 0.07 0.10 0.16
RRUS 32 B66	B	From Leg	4.00 0.00 0.00	0.0000	168.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.74 2.96 3.19 3.68	1.67 1.86 2.05 2.46	0.05 0.07 0.10 0.16
RRUS 32 B66	C	From Leg	4.00 0.00 0.00	0.0000	168.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.74 2.96 3.19 3.68	1.67 1.86 2.05 2.46	0.05 0.07 0.10 0.16
DC6-48-60-0-8F	B	From Leg	4.00 0.00 0.00	0.0000	168.00	No Ice 1/2" Ice 1" Ice	0.92 1.46 1.64 2.04	0.92 1.46 1.64 2.04	0.03 0.05 0.07 0.12

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
						2" Ice			
RRUS 32 B30	A	From Leg	4.00 0.00 0.00	0.0000	168.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.69 2.91 3.14 3.61	1.57 1.76 1.95 2.35	0.06 0.08 0.10 0.16
RRUS 32 B30	B	From Leg	4.00 0.00 0.00	0.0000	168.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.69 2.91 3.14 3.61	1.57 1.76 1.95 2.35	0.06 0.08 0.10 0.16
RRUS 32 B30	C	From Leg	4.00 0.00 0.00	0.0000	168.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.69 2.91 3.14 3.61	1.57 1.76 1.95 2.35	0.06 0.08 0.10 0.16
6' x 2" Mount Pipe	A	From Leg	4.00 0.00 0.00	0.0000	168.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.43 1.92 2.29 3.06	1.43 1.92 2.29 3.06	0.02 0.03 0.05 0.09
6' x 2" Mount Pipe	B	From Leg	4.00 0.00 0.00	0.0000	168.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.43 1.92 2.29 3.06	1.43 1.92 2.29 3.06	0.02 0.03 0.05 0.09
6' x 2" Mount Pipe	C	From Leg	4.00 0.00 0.00	0.0000	168.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.43 1.92 2.29 3.06	1.43 1.92 2.29 3.06	0.02 0.03 0.05 0.09
Platform Mount [LP 1201-1_KCKR-HR-1]	C	None		0.0000	168.00	No Ice 1/2" Ice 1" Ice 2" Ice	37.61 45.62 53.59 69.65	37.61 45.62 53.59 69.65	2.63 3.48 4.46 6.85
CC807-08	A	From Leg	4.00 0.00 2.00	0.0000	168.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.85 3.83 4.67 5.85	2.85 3.83 4.67 5.85	0.03 0.05 0.07 0.15
*** 160 ***									
LLPX310R-V1 w/ Mount Pipe	A	From Leg	4.00 0.00 0.00	0.0000	160.00	No Ice 1/2" Ice 1" Ice 2" Ice	3.88 4.29 4.72 5.61	2.36 2.73 3.12 3.94	0.06 0.09 0.13 0.24
LLPX310R-V1 w/ Mount Pipe	B	From Leg	4.00 0.00 0.00	0.0000	160.00	No Ice 1/2" Ice 1" Ice 2" Ice	3.88 4.29 4.72 5.61	2.36 2.73 3.12 3.94	0.06 0.09 0.13 0.24
LLPX310R-V1 w/ Mount Pipe	C	From Leg	4.00 0.00 0.00	0.0000	160.00	No Ice 1/2" Ice 1" Ice 2" Ice	3.88 4.29 4.72 5.61	2.36 2.73 3.12 3.94	0.06 0.09 0.13 0.24
Horizon Compact	A	From Leg	4.00 0.00 -4.00	0.0000	160.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.72 0.83 0.94 1.19	0.37 0.45 0.54 0.74	0.01 0.02 0.03 0.05
Horizon Compact	B	From Leg	4.00 0.00 4.00	0.0000	160.00	No Ice 1/2" Ice	0.72 0.83 0.94	0.37 0.45 0.54	0.01 0.02 0.03

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
						1" Ice	1.19	0.74	0.05
						2" Ice			
Horizon Compact	C	From Leg	4.00 0.00 4.00	0.0000	160.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.72 0.83 0.94 1.19	0.37 0.45 0.54 0.74	0.01 0.02 0.03 0.05
FB-15-ABOX	A	From Leg	4.00 0.00 -4.00	0.0000	160.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.70 2.90 3.11 3.56	0.51 0.63 0.75 1.02	0.01 0.03 0.04 0.09
RRH-2WB	A	From Leg	4.00 0.00 0.00	0.0000	160.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.30 2.50 2.69 3.11	0.78 0.92 1.06 1.36	0.04 0.06 0.08 0.12
RRH-2WB	B	From Leg	4.00 0.00 0.00	0.0000	160.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.30 2.50 2.69 3.11	0.78 0.92 1.06 1.36	0.04 0.06 0.08 0.12
RRH-2WB	C	From Leg	4.00 0.00 0.00	0.0000	160.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.30 2.50 2.69 3.11	0.78 0.92 1.06 1.36	0.04 0.06 0.08 0.12
(4) 6' x 2" mount pipe	A	From Leg	4.00 0.00 0.00	0.0000	160.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.43 1.92 2.29 3.06	1.43 1.92 2.29 3.06	0.02 0.03 0.05 0.09
(4) 6' x 2" mount pipe	B	From Leg	4.00 0.00 0.00	0.0000	160.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.43 1.92 2.29 3.06	1.43 1.92 2.29 3.06	0.02 0.03 0.05 0.09
(4) 6' x 2" mount pipe	C	From Leg	4.00 0.00 0.00	0.0000	160.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.43 1.92 2.29 3.06	1.43 1.92 2.29 3.06	0.02 0.03 0.05 0.09
Platform Mount [LP 1201-1]	C	None		0.0000	160.00	No Ice 1/2" Ice 1" Ice 2" Ice	18.38 22.11 25.87 33.47	18.38 22.11 25.87 33.47	2.10 2.65 3.26 4.66
*** 152 ***									
Pipe Mount [PM 601-1]	A	From Leg	0.50 0.00 0.00	0.0000	152.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.32 1.58 1.84 2.40	1.32 1.58 1.84 2.40	0.07 0.08 0.09 0.13
*** 147 ***									
BPA7496-180-11 w/ Mount Pipe	A	From Leg	0.50 0.00 1.00	0.0000	147.00	No Ice 1/2" Ice 1" Ice 2" Ice	6.07 6.53 6.99 7.91	5.17 6.05 6.81 8.37	0.04 0.09 0.15 0.29
Pipe Mount [PM 602-1]	C	From Leg	0.50 0.00 0.00	0.0000	147.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.78 3.21 3.64 4.54	2.78 3.21 3.64 4.54	0.09 0.11 0.14 0.21
*** 143 ***									

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
782 10876	C	From Leg	1.00 0.00 0.00	0.0000	143.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.59 0.69 0.80 1.04	0.23 0.31 0.39 0.57	0.01 0.01 0.02 0.04
Pipe Mount [PM 601-1]	C	From Leg	0.50 0.00 0.00	0.0000	143.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.32 1.58 1.84 2.40	1.32 1.58 1.84 2.40	0.07 0.08 0.09 0.13
*** 140 ***									
CC807-11	A	From Leg	4.00 0.00 8.00	0.0000	140.00	No Ice 1/2" Ice 1" Ice 2" Ice	5.27 7.04 8.83 12.45	5.27 7.04 8.83 12.45	0.05 0.09 0.14 0.27
ANT450F6	B	From Leg	4.00 0.00 8.00	0.0000	140.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.90 2.73 3.40 4.40	1.90 2.73 3.40 4.40	0.01 0.02 0.04 0.10
CC807-11	C	From Leg	4.00 0.00 8.00	0.0000	140.00	No Ice 1/2" Ice 1" Ice 2" Ice	5.27 7.04 8.83 12.45	5.27 7.04 8.83 12.45	0.05 0.09 0.14 0.27
432E-83I-01-T	A	From Leg	4.00 0.00 8.00	0.0000	140.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.20 1.34 1.48 1.79	0.75 0.86 0.98 1.24	0.03 0.04 0.05 0.09
PTP400 w/ Mount Pipe	B	From Leg	1.00 0.00 0.00	0.0000	140.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.93 2.16 2.40 2.91	0.87 1.11 1.37 1.94	0.02 0.04 0.06 0.11
RIU	B	From Leg	1.00 0.00 0.00	0.0000	140.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.16 0.21 0.27 0.42	0.12 0.16 0.22 0.35	0.00 0.00 0.01 0.02
Side Arm Mount [SO 702-1]	A	From Leg	0.50 0.00 0.00	0.0000	140.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.62 0.74 0.89 1.25	1.49 2.07 2.54 3.55	0.03 0.04 0.06 0.12
Side Arm Mount [SO 702-1]	C	From Leg	0.50 0.00 0.00	0.0000	140.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.62 0.74 0.89 1.25	1.49 2.07 2.54 3.55	0.03 0.04 0.06 0.12
Side Arm Mount [SO 102-3]	B	From Leg	0.50 0.00 0.00	0.0000	140.00	No Ice 1/2" Ice 1" Ice 2" Ice	3.60 4.18 4.75 5.90	3.60 4.18 4.75 5.90	0.07 0.11 0.14 0.20
*** 135 ***									
ANT450F6	A	From Leg	4.00 0.00 9.00	0.0000	135.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.90 2.73 3.40 4.40	1.90 2.73 3.40 4.40	0.01 0.02 0.04 0.10
ANT450F6	B	From Leg	4.00 0.00 9.00	0.0000	135.00	No Ice 1/2" Ice	1.90 2.73 3.40	1.90 2.73 3.40	0.01 0.02 0.04

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
						1" Ice	4.40	4.40	0.10
						2" Ice			
Side Arm Mount [SO 702-1]	A	None		0.0000	135.00	No Ice	0.62	1.49	0.03
						1/2" Ice	0.74	2.07	0.04
						1" Ice	0.89	2.54	0.06
						2" Ice	1.25	3.55	0.12
Side Arm Mount [SO 702-1]	B	None		0.0000	135.00	No Ice	0.62	1.49	0.03
						1/2" Ice	0.74	2.07	0.04
						1" Ice	0.89	2.54	0.06
						2" Ice	1.25	3.55	0.12
*** 130 ***									
APXVTM14-C-120 w/ Mount Pipe	A	From Leg	4.00 0.00 1.00	0.0000	130.00	No Ice	4.09	2.86	0.08
						1/2" Ice	4.48	3.23	0.13
						1" Ice	4.88	3.61	0.19
						2" Ice	5.71	4.40	0.33
APXVTM14-C-120 w/ Mount Pipe	B	From Leg	4.00 0.00 1.00	0.0000	130.00	No Ice	4.09	2.86	0.08
						1/2" Ice	4.48	3.23	0.13
						1" Ice	4.88	3.61	0.19
						2" Ice	5.71	4.40	0.33
APXVTM14-C-120 w/ Mount Pipe	C	From Leg	4.00 0.00 1.00	0.0000	130.00	No Ice	4.09	2.86	0.08
						1/2" Ice	4.48	3.23	0.13
						1" Ice	4.88	3.61	0.19
						2" Ice	5.71	4.40	0.33
APXV9ERR18-C-A20 w/ Mount Pipe	A	From Leg	4.00 0.00 1.00	0.0000	130.00	No Ice	4.60	4.01	0.10
						1/2" Ice	5.05	4.45	0.16
						1" Ice	5.50	4.89	0.23
						2" Ice	6.44	5.82	0.42
APXV9ERR18-C-A20 w/ Mount Pipe	B	From Leg	4.00 0.00 1.00	0.0000	130.00	No Ice	4.60	4.01	0.10
						1/2" Ice	5.05	4.45	0.16
						1" Ice	5.50	4.89	0.23
						2" Ice	6.44	5.82	0.42
APXV9ERR18-C-A20 w/ Mount Pipe	C	From Leg	4.00 0.00 1.00	0.0000	130.00	No Ice	4.60	4.01	0.10
						1/2" Ice	5.05	4.45	0.16
						1" Ice	5.50	4.89	0.23
						2" Ice	6.44	5.82	0.42
TD-RRH8x20-25	A	From Leg	4.00 0.00 1.00	0.0000	130.00	No Ice	4.05	1.53	0.07
						1/2" Ice	4.30	1.71	0.10
						1" Ice	4.56	1.90	0.13
						2" Ice	5.10	2.30	0.20
TD-RRH8x20-25	B	From Leg	4.00 0.00 1.00	0.0000	130.00	No Ice	4.05	1.53	0.07
						1/2" Ice	4.30	1.71	0.10
						1" Ice	4.56	1.90	0.13
						2" Ice	5.10	2.30	0.20
TD-RRH8x20-25	C	From Leg	4.00 0.00 1.00	0.0000	130.00	No Ice	4.05	1.53	0.07
						1/2" Ice	4.30	1.71	0.10
						1" Ice	4.56	1.90	0.13
						2" Ice	5.10	2.30	0.20
1900MHZ RRH	A	From Leg	4.00 0.00 1.00	0.0000	130.00	No Ice	2.49	3.26	0.04
						1/2" Ice	2.70	3.48	0.08
						1" Ice	2.91	3.72	0.11
						2" Ice	3.35	4.21	0.19
1900MHZ RRH	B	From Leg	4.00 0.00	0.0000	130.00	No Ice	2.49 2.70	3.26 3.48	0.04 0.08

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
			1.00			1/2" Ice	2.91	3.72	0.11
						1" Ice	3.35	4.21	0.19
						2" Ice			
1900MHZ RRH	C	From Leg	4.00	0.0000	130.00	No Ice	2.49	3.26	0.04
			0.00			1/2" Ice	2.70	3.48	0.08
			1.00			1" Ice	2.91	3.72	0.11
						2" Ice	3.35	4.21	0.19
800MHZ 2X50W RRH W/FILTER	A	From Leg	4.00	0.0000	130.00	No Ice	2.06	1.93	0.06
			0.00			1/2" Ice	2.24	2.11	0.09
			0.00			1" Ice	2.43	2.29	0.11
						2" Ice	2.83	2.68	0.17
800MHZ 2X50W RRH W/FILTER	B	From Leg	4.00	0.0000	130.00	No Ice	2.06	1.93	0.06
			0.00			1/2" Ice	2.24	2.11	0.09
			0.00			1" Ice	2.43	2.29	0.11
						2" Ice	2.83	2.68	0.17
800MHZ 2X50W RRH W/FILTER	C	From Leg	4.00	0.0000	130.00	No Ice	2.06	1.93	0.06
			0.00			1/2" Ice	2.24	2.11	0.09
			0.00			1" Ice	2.43	2.29	0.11
						2" Ice	2.83	2.68	0.17
6' x 2" mount pipe	A	From Leg	4.00	0.0000	130.00	No Ice	1.43	1.43	0.02
			0.00			1/2" Ice	1.92	1.92	0.03
			0.00			1" Ice	2.29	2.29	0.05
						2" Ice	3.06	3.06	0.09
6' x 2" mount pipe	B	From Leg	4.00	0.0000	130.00	No Ice	1.43	1.43	0.02
			0.00			1/2" Ice	1.92	1.92	0.03
			0.00			1" Ice	2.29	2.29	0.05
						2" Ice	3.06	3.06	0.09
6' x 2" mount pipe	C	From Leg	4.00	0.0000	130.00	No Ice	1.43	1.43	0.02
			0.00			1/2" Ice	1.92	1.92	0.03
			0.00			1" Ice	2.29	2.29	0.05
						2" Ice	3.06	3.06	0.09
14' Horizontal HSS 3x3x1/4 Tube	A	From Leg	4.00	0.0000	130.00	No Ice	7.00	0.03	0.12
			0.00			1/2" Ice	8.43	0.09	0.16
			0.00			1" Ice	9.88	0.17	0.21
						2" Ice	12.74	0.37	0.34
14' Horizontal HSS 3x3x1/4 Tube	B	From Leg	4.00	0.0000	130.00	No Ice	7.00	0.03	0.12
			0.00			1/2" Ice	8.43	0.09	0.16
			0.00			1" Ice	9.88	0.17	0.21
						2" Ice	12.74	0.37	0.34
14' Horizontal HSS 3x3x1/4 Tube	C	From Leg	4.00	0.0000	130.00	No Ice	7.00	0.03	0.12
			0.00			1/2" Ice	8.43	0.09	0.16
			0.00			1" Ice	9.88	0.17	0.21
						2" Ice	12.74	0.37	0.34
(2) 4' Horizontal L3"x3" Angle Mount	A	From Leg	4.00	0.0000	130.00	No Ice	1.70	0.02	0.02
			0.00			1/2" Ice	1.91	0.08	0.03
			0.00			1" Ice	2.14	0.15	0.05
						2" Ice	2.65	0.35	0.09
(2) 4' Horizontal L3"x3" Angle Mount	B	From Leg	4.00	0.0000	130.00	No Ice	1.70	0.02	0.02
			0.00			1/2" Ice	1.91	0.08	0.03
			0.00			1" Ice	2.14	0.15	0.05
						2" Ice	2.65	0.35	0.09

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
(2) 4' Horizontal L3"x3" Angle Mount	C	From Leg	4.00 0.00 0.00	0.0000	130.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.70 1.91 2.14 2.65	0.02 0.08 0.15 0.35	0.02 0.03 0.05 0.09
Platform Mount [LP 1201-1]	C	None		0.0000	130.00	No Ice 1/2" Ice 1" Ice 2" Ice	18.38 22.11 25.87 33.47	18.38 22.11 25.87 33.47	2.10 2.65 3.26 4.66
*** 120 ***									
APL199016-42T0	A	From Leg	1.00 0.00 0.00	0.0000	120.00	No Ice 1/2" Ice 1" Ice 2" Ice	3.48 4.18 4.90 6.38	2.60 3.28 3.98 5.45	0.01 0.03 0.06 0.14
APL199016-42T0	B	From Leg	1.00 0.00 0.00	0.0000	120.00	No Ice 1/2" Ice 1" Ice 2" Ice	3.48 4.18 4.90 6.38	2.60 3.28 3.98 5.45	0.01 0.03 0.06 0.14
APL199016-42T0	C	From Leg	1.00 0.00 0.00	0.0000	120.00	No Ice 1/2" Ice 1" Ice 2" Ice	3.48 4.18 4.90 6.38	2.60 3.28 3.98 5.45	0.01 0.03 0.06 0.14
Pipe Mount [PM 602-3]	C	None		0.0000	120.00	No Ice 1/2" Ice 1" Ice 2" Ice	6.67 7.70 8.74 10.90	6.67 7.70 8.74 10.90	0.28 0.34 0.42 0.63
*** 100 ***									
Pipe Mount [PM 602-1]	C	From Leg	0.50 0.00 0.00	0.0000	100.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.78 3.21 3.64 4.54	2.78 3.21 3.64 4.54	0.09 0.11 0.14 0.21
*** 79 ***									
1' x 2-1/2"	A	From Leg	2.00 0.00 0.00	0.0000	79.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.16 0.23 0.31 0.51	0.16 0.23 0.31 0.51	0.03 0.03 0.03 0.04
1' x 2-1/2"	B	From Leg	2.00 0.00 0.00	0.0000	79.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.16 0.23 0.31 0.51	0.16 0.23 0.31 0.51	0.03 0.03 0.03 0.04
Side Arm Mount [SO 901-1]	A	From Leg	1.00 0.00 0.00	0.0000	79.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.33 0.46 0.62 1.01	0.62 0.78 0.97 1.43	0.11 0.11 0.12 0.15
Side Arm Mount [SO 901-1]	B	From Leg	1.00 0.00 0.00	0.0000	79.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.33 0.46 0.62 1.01	0.62 0.78 0.97 1.43	0.11 0.11 0.12 0.15
*** 52 ***									
GPS-TMG-HR-26NCM	B	From Leg	3.00 0.00 0.00	0.0000	52.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.13 0.18 0.24 0.37	0.13 0.18 0.24 0.37	0.00 0.00 0.01 0.01
2' x 2" Pipe Mount	B	From Leg	3.00	0.0000	52.00	No Ice	0.02	0.02	0.01

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft Vert ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
			0.00 0.00			1/2" Ice 1" Ice 2" Ice	0.05 0.09 0.19	0.05 0.09 0.19	0.01 0.01 0.01
Side Arm Mount [SO 701-1]	B	From Leg	1.50 0.00 0.00	0.0000	52.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.85 1.14 1.43 2.01	1.67 2.34 3.01 4.35	0.07 0.08 0.09 0.12
****									
***									

Dishes

Description	Face or Leg	Dish Type	Offset Type	Offsets: Horz Lateral ft Vert ft	Azimuth Adjustment °	3 dB Beam Width °	Elevation ft	Outside Diameter ft		Aperture Area ft^2	Weight K
*** 160 ***											
VHLP2.5-11	A	Paraboloid w/Shroud (HP)	From Leg	4.00 0.00 5.00	0.0000		160.00	2.92	No Ice 1/2" Ice 1" Ice 2" Ice	6.68 7.07 7.46 8.23	0.03 0.04 0.05 0.07
VHLP2.5-11	B	Paraboloid w/Shroud (HP)	From Leg	4.00 0.00 5.00	0.0000		160.00	2.92	No Ice 1/2" Ice 1" Ice 2" Ice	6.68 7.07 7.46 8.23	0.03 0.04 0.05 0.07
VHLP2.5-11	C	Paraboloid w/Shroud (HP)	From Leg	4.00 0.00 5.00	0.0000		160.00	2.92	No Ice 1/2" Ice 1" Ice 2" Ice	6.68 7.07 7.46 8.23	0.03 0.04 0.05 0.07
*** 152 ***											
SC3-W100ASTX	A	Paraboloid w/o Radome	From Leg	1.00 0.00 0.00	0.0000		152.00	3.00	No Ice 1/2" Ice 1" Ice 2" Ice	7.07 7.47 7.87 8.66	0.04 0.08 0.12 0.19
*** 147 ***											
SC3-W100ASTX	B	Paraboloid w/o Radome	From Leg	1.00 0.00 1.00	0.0000		147.00	3.00	No Ice 1/2" Ice 1" Ice 2" Ice	7.07 7.47 7.87 8.66	0.04 0.08 0.12 0.19
*** 143 ***											
MPRD2449	A	Paraboloid w/Radome	From Leg	1.00 0.00 0.00	0.0000		143.00	2.17	No Ice 1/2" Ice 1" Ice 2" Ice	3.69 3.98 4.27 4.84	0.04 0.06 0.08 0.12
*** 100 ***											
SC3-W100AMPT	C	Paraboloid w/o Radome	From Leg	1.00 0.00 0.00	0.0000		100.00	3.29	No Ice 1/2" Ice 1" Ice 2" Ice	8.51 8.95 9.38 10.26	0.05 0.09 0.14 0.23
****											

Load Combinations

Comb. No.	Description
1	Dead Only
2	1.2 Dead+1.0 Wind 0 deg - No Ice
3	0.9 Dead+1.0 Wind 0 deg - No Ice
4	1.2 Dead+1.0 Wind 30 deg - No Ice
5	0.9 Dead+1.0 Wind 30 deg - No Ice
6	1.2 Dead+1.0 Wind 60 deg - No Ice
7	0.9 Dead+1.0 Wind 60 deg - No Ice
8	1.2 Dead+1.0 Wind 90 deg - No Ice
9	0.9 Dead+1.0 Wind 90 deg - No Ice
10	1.2 Dead+1.0 Wind 120 deg - No Ice
11	0.9 Dead+1.0 Wind 120 deg - No Ice
12	1.2 Dead+1.0 Wind 150 deg - No Ice
13	0.9 Dead+1.0 Wind 150 deg - No Ice
14	1.2 Dead+1.0 Wind 180 deg - No Ice
15	0.9 Dead+1.0 Wind 180 deg - No Ice
16	1.2 Dead+1.0 Wind 210 deg - No Ice
17	0.9 Dead+1.0 Wind 210 deg - No Ice
18	1.2 Dead+1.0 Wind 240 deg - No Ice
19	0.9 Dead+1.0 Wind 240 deg - No Ice
20	1.2 Dead+1.0 Wind 270 deg - No Ice
21	0.9 Dead+1.0 Wind 270 deg - No Ice
22	1.2 Dead+1.0 Wind 300 deg - No Ice
23	0.9 Dead+1.0 Wind 300 deg - No Ice
24	1.2 Dead+1.0 Wind 330 deg - No Ice
25	0.9 Dead+1.0 Wind 330 deg - No Ice
26	1.2 Dead+1.0 Ice+1.0 Temp
27	1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp
28	1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp
29	1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp
30	1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp
31	1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp
32	1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp
33	1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp
34	1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp
35	1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp
36	1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp
37	1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp
38	1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp
39	Dead+Wind 0 deg - Service
40	Dead+Wind 30 deg - Service
41	Dead+Wind 60 deg - Service
42	Dead+Wind 90 deg - Service
43	Dead+Wind 120 deg - Service
44	Dead+Wind 150 deg - Service
45	Dead+Wind 180 deg - Service
46	Dead+Wind 210 deg - Service
47	Dead+Wind 240 deg - Service
48	Dead+Wind 270 deg - Service
49	Dead+Wind 300 deg - Service
50	Dead+Wind 330 deg - Service

Maximum Member Forces

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L1	168 - 119.25	Pole	Max Tension	45	0.00	0.00	0.00
			Max. Compression	26	-47.32	-0.86	3.09
			Max. Mx	20	-17.03	743.18	9.49
			Max. My	14	-16.90	-0.07	-763.68
			Max. Vy	20	-24.60	743.18	9.49
			Max. Vx	14	25.21	-0.07	-763.68
			Max. Torque	20			-4.00
L2	119.25 - 78.5	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-59.80	0.01	2.75
			Max. Mx	20	-25.05	1843.77	23.82

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. My	14	-24.97	-0.77	-1886.51
			Max. Vy	8	30.21	-1834.37	11.83
			Max. Vx	2	-30.75	22.93	1880.52
			Max. Torque	20			-3.99
L3	78.5 - 38.75	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-75.35	-1.16	2.85
			Max. Mx	20	-36.56	3102.90	36.95
			Max. My	14	-36.52	-0.43	-3165.35
			Max. Vy	8	34.72	-3095.51	27.67
			Max. Vx	2	-35.26	19.77	3161.65
			Max. Torque	8			3.47
L4	38.75 - 0	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-95.47	-1.60	3.11
			Max. Mx	20	-52.11	4762.59	50.97
			Max. My	14	-52.11	1.35	-4847.09
			Max. Vy	8	38.77	-4756.04	46.17
			Max. Vx	2	-39.29	16.00	4845.92
			Max. Torque	8			3.31

Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
Pole	Max. Vert	27	95.47	-0.01	10.66
	Max. H_x	20	52.15	38.71	0.30
	Max. H_z	3	39.11	-0.09	39.24
	Max. M_x	2	4845.92	-0.09	39.24
	Max. M_z	8	4756.04	-38.73	0.40
	Max. Torsion	8	3.31	-38.73	0.40
	Min. Vert	25	39.11	19.64	33.59
	Min. H_x	8	52.15	-38.73	0.40
	Min. H_z	15	39.11	0.04	-39.18
	Min. M_x	14	-4847.09	0.04	-39.18
	Min. M_z	20	-4762.59	38.71	0.30
	Min. Torsion	20	-3.16	38.71	0.30

Tower Mast Reaction Summary

Load Combination	Vertical K	$Shear_x$ K	$Shear_z$ K	Overturning Moment, M_x kip-ft	Overturning Moment, M_z kip-ft	Torque kip-ft
Dead Only	43.46	0.00	0.00	-0.27	-0.30	0.00
1.2 Dead+1.0 Wind 0 deg - No Ice	52.15	0.09	-39.24	-4845.92	16.00	0.10
0.9 Dead+1.0 Wind 0 deg - No Ice	39.11	0.09	-39.24	-4775.95	15.57	0.09
1.2 Dead+1.0 Wind 30 deg - No Ice	52.15	19.75	-33.64	-4145.59	-2423.79	-0.74
0.9 Dead+1.0 Wind 30 deg - No Ice	39.11	19.75	-33.64	-4085.74	-2388.93	-0.74
1.2 Dead+1.0 Wind 60 deg - No Ice	52.15	33.66	-19.59	-2412.04	-4132.95	-2.34
0.9 Dead+1.0 Wind 60 deg - No Ice	39.11	33.66	-19.59	-2377.23	-4073.45	-2.34
1.2 Dead+1.0 Wind 90 deg - No Ice	52.15	38.73	-0.40	-46.17	-4756.04	-3.31
0.9 Dead+1.0 Wind 90 deg - No Ice	39.11	38.73	-0.40	-45.53	-4687.55	-3.31
1.2 Dead+1.0 Wind 120 deg - No Ice	52.15	33.73	19.56	2441.27	-4138.55	-2.39

Load Combination	Vertical	$Shear_x$	$Shear_z$	Overturning Moment, M_x	Overturning Moment, M_z	Torque
	K	K	K	kip-ft	kip-ft	kip-ft
0.9 Dead+1.0 Wind 120 deg - No Ice	39.11	33.73	19.56	2405.87	-4079.05	-2.38
1.2 Dead+1.0 Wind 150 deg - No Ice	52.15	19.04	34.00	4214.56	-2337.49	-0.82
0.9 Dead+1.0 Wind 150 deg - No Ice	39.11	19.04	34.00	4153.71	-2303.77	-0.81
1.2 Dead+1.0 Wind 180 deg - No Ice	52.15	-0.04	39.18	4847.09	1.35	0.02
0.9 Dead+1.0 Wind 180 deg - No Ice	39.11	-0.04	39.18	4777.18	1.44	0.03
1.2 Dead+1.0 Wind 210 deg - No Ice	52.15	-19.11	34.05	4212.29	2339.39	0.84
0.9 Dead+1.0 Wind 210 deg - No Ice	39.11	-19.11	34.05	4151.55	2305.87	0.84
1.2 Dead+1.0 Wind 240 deg - No Ice	52.15	-33.73	19.67	2430.69	4152.23	2.29
0.9 Dead+1.0 Wind 240 deg - No Ice	39.11	-33.73	19.67	2395.68	4092.56	2.29
1.2 Dead+1.0 Wind 270 deg - No Ice	52.15	-38.71	-0.30	-50.97	4762.59	3.16
0.9 Dead+1.0 Wind 270 deg - No Ice	39.11	-38.71	-0.30	-50.09	4694.09	3.15
1.2 Dead+1.0 Wind 300 deg - No Ice	52.15	-33.59	-19.50	-2414.05	4139.13	2.32
0.9 Dead+1.0 Wind 300 deg - No Ice	39.11	-33.59	-19.50	-2379.09	4079.57	2.31
1.2 Dead+1.0 Wind 330 deg - No Ice	52.15	-19.64	-33.59	-4148.37	2434.14	0.87
0.9 Dead+1.0 Wind 330 deg - No Ice	39.11	-19.64	-33.59	-4088.38	2399.06	0.86
1.2 Dead+1.0 Ice+1.0 Temp	95.47	0.00	-0.00	-3.11	-1.60	0.00
1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp	95.47	0.01	-10.66	-1409.83	3.08	0.14
1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp	95.47	5.36	-9.16	-1210.13	-705.98	-0.18
1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp	95.47	9.18	-5.32	-703.43	-1208.69	-0.64
1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp	95.47	10.58	-0.08	-12.10	-1392.39	-0.93
1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp	95.47	9.20	5.32	705.03	-1210.50	-0.78
1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp	95.47	5.23	9.24	1219.33	-689.26	-0.41
1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp	95.47	-0.01	10.65	1403.80	-2.07	-0.12
1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp	95.47	-5.24	9.24	1217.98	685.13	0.20
1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp	95.47	-9.20	5.34	701.08	1209.84	0.64
1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp	95.47	-10.57	-0.06	-14.86	1390.79	0.91
1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp	95.47	-9.17	-5.31	-705.31	1207.79	0.76
1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp	95.47	-5.35	-9.15	-1211.63	706.67	0.41
Dead+Wind 0 deg - Service	43.46	0.02	-8.51	-1044.43	3.20	0.02
Dead+Wind 30 deg - Service	43.46	4.29	-7.30	-893.48	-522.50	-0.16
Dead+Wind 60 deg - Service	43.46	7.30	-4.25	-519.94	-890.75	-0.52
Dead+Wind 90 deg - Service	43.46	8.40	-0.09	-10.19	-1024.96	-0.73
Dead+Wind 120 deg - Service	43.46	7.32	4.24	525.78	-892.00	-0.53
Dead+Wind 150 deg - Service	43.46	4.13	7.38	907.93	-503.92	-0.18
Dead+Wind 180 deg - Service	43.46	-0.01	8.50	1044.26	0.07	0.01
Dead+Wind 210 deg - Service	43.46	-4.15	7.39	907.43	503.87	0.19
Dead+Wind 240 deg - Service	43.46	-7.32	4.27	523.52	894.49	0.51

Load Combination	Vertical	$Shear_x$	$Shear_z$	Overturning Moment, M_x	Overturning Moment, M_z	Torque
	K	K	K	kip-ft	kip-ft	kip-ft
Dead+Wind 270 deg - Service	43.46	-8.40	-0.07	-11.21	1025.93	0.70
Dead+Wind 300 deg - Service	43.46	-7.29	-4.23	-520.38	891.64	0.51
Dead+Wind 330 deg - Service	43.46	-4.26	-7.29	-894.10	524.27	0.19

Solution Summary

	Sum of Applied Forces			Sum of Reactions			
Load Comb.	PX	PY	PZ	PX	PY	PZ	% Error
	K	K	K	K	K	K	
1	0.00	-43.46	0.00	0.00	43.46	0.00	0.000%
2	0.09	-52.15	-39.24	-0.09	52.15	39.24	0.000%
3	0.09	-39.11	-39.24	-0.09	39.11	39.24	0.000%
4	19.75	-52.15	-33.64	-19.75	52.15	33.64	0.000%
5	19.75	-39.11	-33.64	-19.75	39.11	33.64	0.000%
6	33.66	-52.15	-19.59	-33.66	52.15	19.59	0.000%
7	33.66	-39.11	-19.59	-33.66	39.11	19.59	0.000%
8	38.73	-52.15	-0.40	-38.73	52.15	0.40	0.000%
9	38.73	-39.11	-0.40	-38.73	39.11	0.40	0.000%
10	33.73	-52.15	19.56	-33.73	52.15	-19.56	0.000%
11	33.73	-39.11	19.56	-33.73	39.11	-19.56	0.000%
12	19.04	-52.15	34.00	-19.04	52.15	-34.00	0.000%
13	19.04	-39.11	34.00	-19.04	39.11	-34.00	0.000%
14	-0.04	-52.15	39.18	0.04	52.15	-39.18	0.000%
15	-0.04	-39.11	39.18	0.04	39.11	-39.18	0.000%
16	-19.11	-52.15	34.05	19.11	52.15	-34.05	0.000%
17	-19.11	-39.11	34.05	19.11	39.11	-34.05	0.000%
18	-33.73	-52.15	19.67	33.73	52.15	-19.67	0.000%
19	-33.73	-39.11	19.67	33.73	39.11	-19.67	0.000%
20	-38.71	-52.15	-0.30	38.71	52.15	0.30	0.000%
21	-38.71	-39.11	-0.30	38.71	39.11	0.30	0.000%
22	-33.59	-52.15	-19.50	33.59	52.15	19.50	0.000%
23	-33.59	-39.11	-19.50	33.59	39.11	19.50	0.000%
24	-19.64	-52.15	-33.59	19.64	52.15	33.59	0.000%
25	-19.64	-39.11	-33.59	19.64	39.11	33.59	0.000%
26	0.00	-95.47	0.00	-0.00	95.47	0.00	0.000%
27	0.01	-95.47	-10.66	-0.01	95.47	10.66	0.000%
28	5.36	-95.47	-9.16	-5.36	95.47	9.16	0.000%
29	9.18	-95.47	-5.32	-9.18	95.47	5.32	0.000%
30	10.58	-95.47	-0.08	-10.58	95.47	0.08	0.000%
31	9.20	-95.47	5.32	-9.20	95.47	-5.32	0.000%
32	5.23	-95.47	9.24	-5.23	95.47	-9.24	0.000%
33	-0.01	-95.47	10.65	0.01	95.47	-10.65	0.000%
34	-5.24	-95.47	9.24	5.24	95.47	-9.24	0.000%
35	-9.20	-95.47	5.34	9.20	95.47	-5.34	0.000%
36	-10.57	-95.47	-0.06	10.57	95.47	0.06	0.000%
37	-9.17	-95.47	-5.31	9.17	95.47	5.31	0.000%
38	-5.35	-95.47	-9.15	5.35	95.47	9.15	0.000%
39	0.02	-43.46	-8.51	-0.02	43.46	8.51	0.000%
40	4.29	-43.46	-7.30	-4.29	43.46	7.30	0.000%
41	7.30	-43.46	-4.25	-7.30	43.46	4.25	0.000%
42	8.40	-43.46	-0.09	-8.40	43.46	0.09	0.000%
43	7.32	-43.46	4.24	-7.32	43.46	-4.24	0.000%
44	4.13	-43.46	7.38	-4.13	43.46	-7.38	0.000%
45	-0.01	-43.46	8.50	0.01	43.46	-8.50	0.000%
46	-4.15	-43.46	7.39	4.15	43.46	-7.39	0.000%
47	-7.32	-43.46	4.27	7.32	43.46	-4.27	0.000%
48	-8.40	-43.46	-0.07	8.40	43.46	0.07	0.000%
49	-7.29	-43.46	-4.23	7.29	43.46	4.23	0.000%
50	-4.26	-43.46	-7.29	4.26	43.46	7.29	0.000%

Non-Linear Convergence Results

Load Combination	Converged?	Number of Cycles	Displacement Tolerance	Force Tolerance
1	Yes	4	0.00000001	0.00000001
2	Yes	5	0.00000001	0.00009320
3	Yes	4	0.00000001	0.00097765
4	Yes	6	0.00000001	0.00030021
5	Yes	6	0.00000001	0.00008786
6	Yes	6	0.00000001	0.00030883
7	Yes	6	0.00000001	0.00009121
8	Yes	5	0.00000001	0.00037442
9	Yes	5	0.00000001	0.00016711
10	Yes	6	0.00000001	0.00029712
11	Yes	6	0.00000001	0.00008631
12	Yes	6	0.00000001	0.00030451
13	Yes	6	0.00000001	0.00008953
14	Yes	5	0.00000001	0.00003576
15	Yes	4	0.00000001	0.00058293
16	Yes	6	0.00000001	0.00030338
17	Yes	6	0.00000001	0.00008927
18	Yes	6	0.00000001	0.00029675
19	Yes	6	0.00000001	0.00008633
20	Yes	5	0.00000001	0.00041853
21	Yes	5	0.00000001	0.00018601
22	Yes	6	0.00000001	0.00031109
23	Yes	6	0.00000001	0.00009163
24	Yes	6	0.00000001	0.00030282
25	Yes	6	0.00000001	0.00008824
26	Yes	4	0.00000001	0.00004051
27	Yes	6	0.00000001	0.00031166
28	Yes	6	0.00000001	0.00049325
29	Yes	6	0.00000001	0.00049983
30	Yes	6	0.00000001	0.00030916
31	Yes	6	0.00000001	0.00048829
32	Yes	6	0.00000001	0.00049339
33	Yes	6	0.00000001	0.00030908
34	Yes	6	0.00000001	0.00048762
35	Yes	6	0.00000001	0.00048489
36	Yes	6	0.00000001	0.00030949
37	Yes	6	0.00000001	0.00050356
38	Yes	6	0.00000001	0.00049614
39	Yes	4	0.00000001	0.00014252
40	Yes	5	0.00000001	0.00006818
41	Yes	5	0.00000001	0.00007495
42	Yes	4	0.00000001	0.00029879
43	Yes	5	0.00000001	0.00006668
44	Yes	5	0.00000001	0.00007171
45	Yes	4	0.00000001	0.00014374
46	Yes	5	0.00000001	0.00007115
47	Yes	5	0.00000001	0.00006623
48	Yes	4	0.00000001	0.00031124
49	Yes	5	0.00000001	0.00007607
50	Yes	5	0.00000001	0.00006955

Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	168 - 119.25	32.764	45	1.7415	0.0078
L2	123.5 - 78.5	17.626	45	1.4139	0.0033
L3	83.75 - 38.75	7.878	45	0.8872	0.0012
L4	45 - 0	2.303	45	0.4660	0.0005

Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
168.00	800 10121 w/ Mount Pipe	45	32.764	1.7415	0.0078	38287
165.00	VHLP2.5-11	45	31.681	1.7249	0.0075	38287
160.00	LLPX310R-V1 w/ Mount Pipe	45	29.882	1.6968	0.0069	23929
152.00	SC3-W100ASTX	45	27.032	1.6492	0.0060	11964
148.00	SC3-W100ASTX	45	25.629	1.6235	0.0056	9571
147.00	BPA7496-180-11 w/ Mount Pipe	45	25.282	1.6168	0.0055	9115
143.00	MPRD2449	45	23.905	1.5888	0.0050	7656
140.00	CC807-11	45	22.888	1.5663	0.0047	6836
135.00	ANT450F6	45	21.230	1.5257	0.0043	5800
130.00	APXVTM14-C-120 w/ Mount Pipe	45	19.624	1.4806	0.0038	5036
120.00	APL199016-42T0	45	16.597	1.3738	0.0030	4344
100.00	SC3-W100AMPT	45	11.360	1.1086	0.0019	4594
79.00	1' x 2-1/2"	45	6.986	0.8281	0.0012	4762
52.00	GPS-TMG-HR-26NCM	45	3.016	0.5364	0.0006	4448

Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	168 - 119.25	152.076	14	8.1003	0.0359
L2	123.5 - 78.5	81.858	14	6.5760	0.0144
L3	83.75 - 38.75	36.594	14	4.1246	0.0054
L4	45 - 0	10.695	14	2.1651	0.0022

Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
168.00	800 10121 w/ Mount Pipe	14	152.076	8.1003	0.0359	8511
165.00	VHLP2.5-11	14	147.056	8.0230	0.0343	8511
160.00	LLPX310R-V1 w/ Mount Pipe	14	138.711	7.8923	0.0316	5319
152.00	SC3-W100ASTX	14	125.495	7.6710	0.0273	2657
148.00	SC3-W100ASTX	14	118.989	7.5513	0.0253	2124
147.00	BPA7496-180-11 w/ Mount Pipe	14	117.376	7.5202	0.0248	2022
143.00	MPRD2449	14	110.989	7.3898	0.0228	1697
140.00	CC807-11	14	106.274	7.2854	0.0214	1514
135.00	ANT450F6	14	98.582	7.0966	0.0194	1283
130.00	APXVTM14-C-120 w/ Mount Pipe	14	91.129	6.8864	0.0174	1113
120.00	APL199016-42T0	14	77.084	6.3897	0.0140	956
100.00	SC3-W100AMPT	14	52.769	5.1553	0.0088	1003
79.00	1' x 2-1/2"	14	32.450	3.8497	0.0053	1033
52.00	GPS-TMG-HR-26NCM	14	14.009	2.4924	0.0028	960

Compression Checks

Pole Design Data

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
L1	168 - 119.25 (1)	TP34.288x24x0.25	48.75	0.00	0.0	26.2975	-16.90	1538.40	0.011
L2	119.25 - 78.5 (2)	TP42.387x32.8911x0.2813	45.00	0.00	0.0	36.5983	-24.97	2141.00	0.012
L3	78.5 - 38.75 (3)	TP50.213x40.7166x0.375	45.00	0.00	0.0	57.7498	-36.52	3378.36	0.011
L4	38.75 - 0 (4)	TP57.64x48.1441x0.375	45.00	0.00	0.0	68.1597	-52.11	3987.34	0.013

Pole Bending Design Data

Section No.	Elevation ft	Size	M_{ux} kip-ft	ϕM_{nx} kip-ft	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	M_{uy} kip-ft	ϕM_{ny} kip-ft	Ratio $\frac{M_{uy}}{\phi M_{ny}}$
L1	168 - 119.25 (1)	TP34.288x24x0.25	763.68	1206.64	0.633	0.00	1206.64	0.000
L2	119.25 - 78.5 (2)	TP42.387x32.8911x0.2813	1886.51	2002.83	0.942	0.00	2002.83	0.000
L3	78.5 - 38.75 (3)	TP50.213x40.7166x0.375	3165.35	3912.78	0.809	0.00	3912.78	0.000
L4	38.75 - 0 (4)	TP57.64x48.1441x0.375	4847.09	5107.74	0.949	0.00	5107.74	0.000

Pole Shear Design Data

Section No.	Elevation ft	Size	Actual V_u K	ϕV_n K	Ratio $\frac{V_u}{\phi V_n}$	Actual T_u kip-ft	ϕT_n kip-ft	Ratio $\frac{T_u}{\phi T_n}$
L1	168 - 119.25 (1)	TP34.288x24x0.25	25.21	461.52	0.055	0.57	1339.48	0.000
L2	119.25 - 78.5 (2)	TP42.387x32.8911x0.2813	30.69	635.78	0.048	0.38	2306.11	0.000
L3	78.5 - 38.75 (3)	TP50.213x40.7166x0.375	35.21	1013.51	0.035	0.02	4306.46	0.000
L4	38.75 - 0 (4)	TP57.64x48.1441x0.375	39.23	1196.20	0.033	0.02	5998.93	0.000

Pole Interaction Design Data

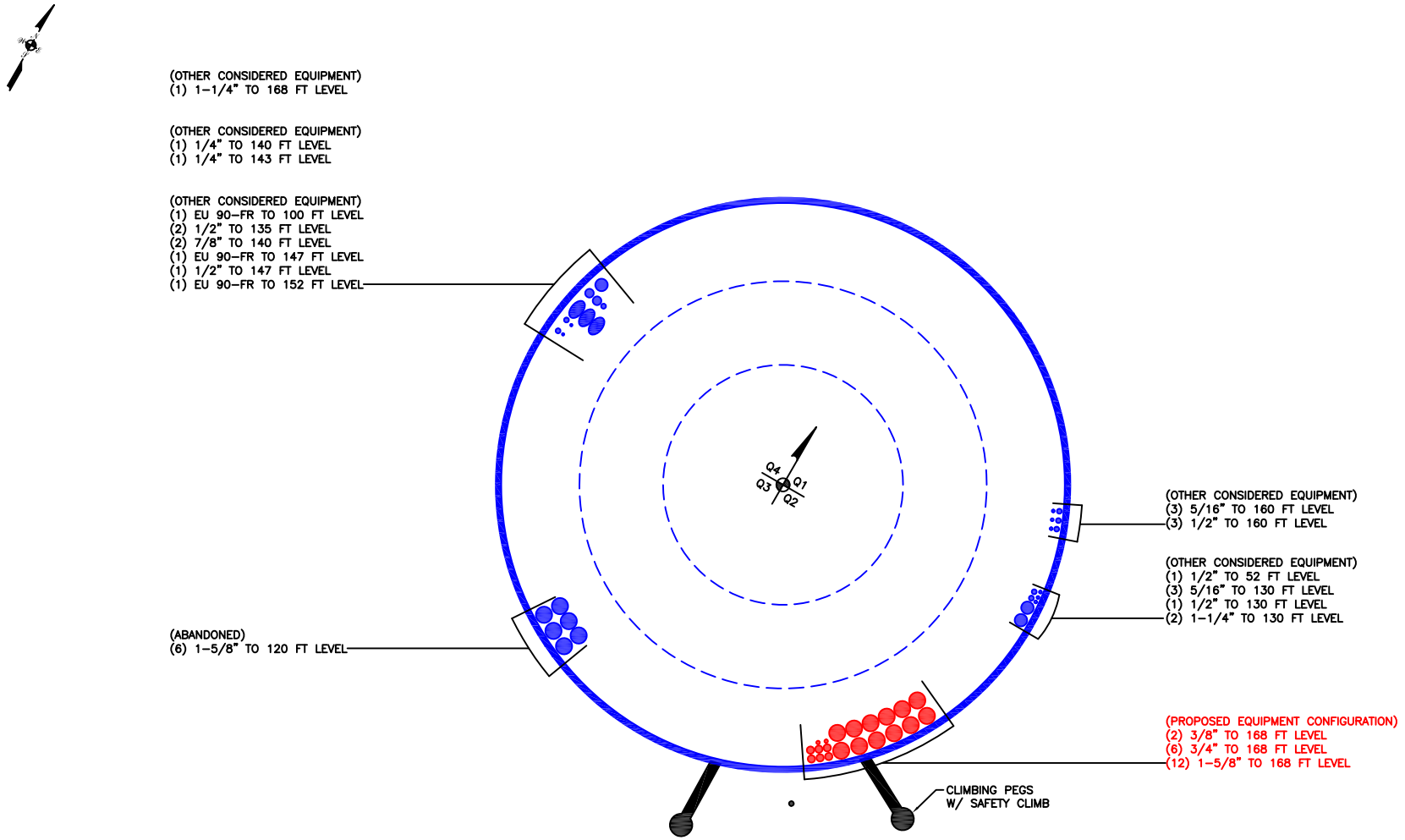
Section No.	Elevation ft	Ratio $\frac{P_u}{\phi P_n}$	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	Ratio $\frac{M_{uy}}{\phi M_{ny}}$	Ratio $\frac{V_u}{\phi V_n}$	Ratio $\frac{T_u}{\phi T_n}$	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
L1	168 - 119.25 (1)	0.011	0.633	0.000	0.055	0.000	0.647	1.050	4.8.2
L2	119.25 - 78.5 (2)	0.012	0.942	0.000	0.048	0.000	0.956	1.050	4.8.2
L3	78.5 - 38.75 (3)	0.011	0.809	0.000	0.035	0.000	0.821	1.050	4.8.2
L4	38.75 - 0 (4)	0.013	0.949	0.000	0.033	0.000	0.963	1.050	4.8.2

Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail
L1	168 - 119.25	Pole	TP34.288x24x0.25	1	-16.90	1615.32	61.6	Pass
L2	119.25 - 78.5	Pole	TP42.387x32.8911x0.2813	2	-24.97	2248.05	91.0	Pass
L3	78.5 - 38.75	Pole	TP50.213x40.7166x0.375	3	-36.52	3547.28	78.2	Pass
L4	38.75 - 0	Pole	TP57.64x48.1441x0.375	4	-52.11	4186.71	91.7	Pass
							Summary	
						Pole (L4)	91.7	Pass
						RATING =	**91.7**	**Pass**

APPENDIX B

BASE LEVEL DRAWING


(OTHER CONSIDERED EQUIPMENT)
(1) 1-1/4" TO 168 FT LEVEL
(OTHER CONSIDERED EQUIPMENT)
(1) 1/4" TO 140 FT LEVEL
(1) 1/4" TO 143 FT LEVEL
(OTHER CONSIDERED EQUIPMENT)
(1) EU 90-FR TO 100 FT LEVEL
(2) 1/2" TO 135 FT LEVEL
(2) 7/8" TO 140 FT LEVEL
(1) EU 90-FR TO 147 FT LEVEL
(1) 1/2" TO 147 FT LEVEL
(1) EU 90-FR TO 152 FT LEVEL
(ABANDONED)
(6) 1-5/8" TO 120 FT LEVEL
Q4
Q1
Q3
Q2
(OTHER CONSIDERED EQUIPMENT)
(3) 5/16" TO 160 FT LEVEL
(3) 1/2" TO 160 FT LEVEL
(OTHER CONSIDERED EQUIPMENT)
(1) 1/2" TO 52 FT LEVEL
(3) 5/16" TO 130 FT LEVEL
(1) 1/2" TO 130 FT LEVEL
(2) 1-1/4" TO 130 FT LEVEL
(PROPOSED EQUIPMENT CONFIGURATION)
(2) 3/8" TO 168 FT LEVEL
(6) 3/4" TO 168 FT LEVEL
(12) 1-5/8" TO 168 FT LEVEL
CLIMBING PEGS
W/ SAFETY CLIMB

APPENDIX C

ADDITIONAL CALCULATIONS

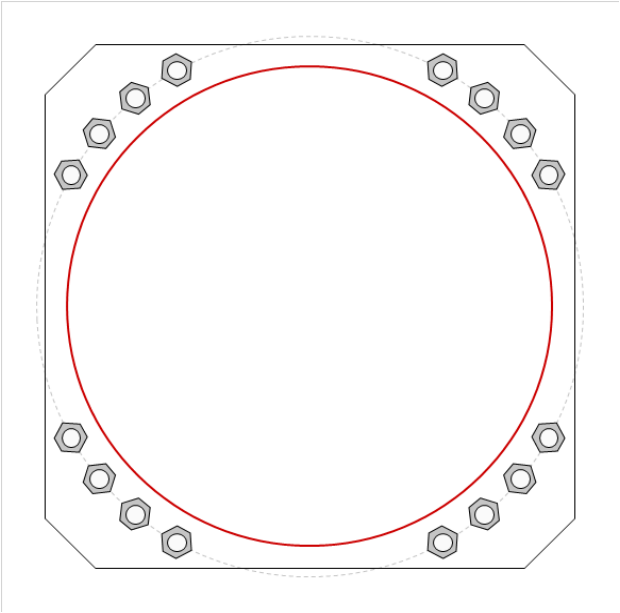
Monopole Base Plate Connection

Site Info	
BU #	842875
Site Name	WINDSORDAY HILL
Order #	517092, Rev 0

Analysis Considerations	
TIA-222 Revision	H
Grout Considered:	No
l_{ar} (in)	1.25

Applied Loads	
Moment (kip-ft)	4847.09
Axial Force (kips)	52.11
Shear Force (kips)	39.23

**TIA-222-H Section 15.5 Applied*



Connection Properties

Anchor Rod Data

(16) 2-1/4" ø bolts (A615-75 N; Fy=75 ksi, Fu=100 ksi) on 65" BC
Anchor Spacing: 6 in

Base Plate Data

63" OD x 3.25" Plate (A572-55; Fy=55 ksi, Fu=70 ksi)

Stiffener Data

N/A

Pole Data

57.64" x 0.375" 18-sided pole (A607-65; Fy=65 ksi, Fu=80 ksi)

Analysis Results

Anchor Rod Summary *(units of kips, kip-in)*

Pu_c = 226.86	ϕPn_c = 268.39	**Stress Rating**
Vu = 2.45	ϕVn = 120.77	**80.5%**
Mu = n/a	ϕMn = n/a	**Pass**

Base Plate Summary

Max Stress (ksi):	32.08	(Flexural)
Allowable Stress (ksi):	49.5	
Stress Rating:	**61.7%**	**Pass**

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Name of input data file:
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Name of plot output file:
842875_LPile (USCS units).lp9p

Name of runtime message file:
842875_LPile (USCS units).lp9r

Date and Time of Analysis

Date: November 5, 2020 Time: 13:52:19

Problem Title

Project Name:

Job Number:

Client:

Engineer:

Description:

Program Options and Settings

Computational Options:
 - Use unfactored loads in computations (conventional analysis)
Engineering Units Used for Data Input and Computations:
 - US Customary System Units (pounds, feet, inches)

Analysis Control Options:

- Maximum number of iterations allowed	=	500
- Deflection tolerance for convergence	=	1.0000E-05 in
- Maximum allowable deflection	=	100.0000 in
- Number of pile increments	=	100

Loading Type and Number of Cycles of Loading:
 - Static loading specified

 - Use of p-y modification factors for p-y curves not selected
 - No distributed lateral loads are entered
 - Loading by lateral soil movements acting on pile not selected
 - Input of shear resistance at the pile tip not selected
 - Computation of pile-head foundation stiffness matrix not selected
 - Push-over analysis of pile not selected
 - Buckling analysis of pile not selected

Output Options:
 - Output files use decimal points to denote decimal symbols.
 - Values of pile-head deflection, bending moment, shear force, and
   soil reaction are printed for full length of pile.
 - Printing Increment (nodal spacing of output points) = 1
 - No p-y curves to be computed and reported for user-specified depths
 - Print using wide report formats

Pile Structural Properties and Geometry

Number of pile sections defined	=	1
Total length of pile	=	24.500 ft
Depth of ground surface below top of pile	=	0.5000 ft

Pile diameters used for p-y curve computations are defined using 2 points.

p-y curves are computed using pile diameter values interpolated with depth over
the length of the pile. A summary of values of pile diameter vs. depth follows.

Point No.	Depth Below Pile Head feet	Pile Diameter inches
1	0.000	96.0000
2	24.500	96.0000

Input Structural Properties for Pile Sections:

Pile Section No. 1:

Section 1 is a round drilled shaft, bored pile, or CIDH pile
Length of section = 24.500000 ft
Shaft Diameter = 96.000000 in
Shear capacity of section = 0.0000 lbs

Ground Slope and Pile Batter Angles

Ground Slope Angle = 0.000 degrees
= 0.000 radians

Pile Batter Angle = 0.000 degrees
= 0.000 radians

Soil and Rock Layering Information

The soil profile is modelled using 5 layers

Layer 1 is soft clay, p-y criteria by Matlock, 1970

Distance from top of pile to top of layer = 0.500000 ft
Distance from top of pile to bottom of layer = 5.500000 ft
Effective unit weight at top of layer = 100.000000 pcf
Effective unit weight at bottom of layer = 100.000000 pcf
Undrained cohesion at top of layer = 100.000000 psf
Undrained cohesion at bottom of layer = 100.000000 psf
Epsilon-50 at top of layer = 0.0000
Epsilon-50 at bottom of layer = 0.0000

NOTE: Default values for Epsilon-50 will be computed for this layer.

Layer 2 is sand, p-y criteria by Reese et al., 1974

Distance from top of pile to top of layer = 5.500000 ft
Distance from top of pile to bottom of layer = 10.500000 ft
Effective unit weight at top of layer = 60.000000 pcf
Effective unit weight at bottom of layer = 60.000000 pcf
Friction angle at top of layer = 35.000000 deg.
Friction angle at bottom of layer = 35.000000 deg.
Subgrade k at top of layer = 0.0000 pci
Subgrade k at bottom of layer = 0.0000 pci

NOTE: Default values for subgrade k will be computed for this layer.

Layer 3 is sand, p-y criteria by Reese et al., 1974

Distance from top of pile to top of layer	=	10.500000 ft
Distance from top of pile to bottom of layer	=	15.500000 ft
Effective unit weight at top of layer	=	55.000000 pcf
Effective unit weight at bottom of layer	=	55.000000 pcf
Friction angle at top of layer	=	33.000000 deg.
Friction angle at bottom of layer	=	33.000000 deg.
Subgrade k at top of layer	=	0.0000 pci
Subgrade k at bottom of layer	=	0.0000 pci

NOTE: Default values for subgrade k will be computed for this layer.

Layer 4 is sand, p-y criteria by Reese et al., 1974

Distance from top of pile to top of layer	=	15.500000 ft
Distance from top of pile to bottom of layer	=	17.500000 ft
Effective unit weight at top of layer	=	80.000000 pcf
Effective unit weight at bottom of layer	=	80.000000 pcf
Friction angle at top of layer	=	40.000000 deg.
Friction angle at bottom of layer	=	40.000000 deg.
Subgrade k at top of layer	=	0.0000 pci
Subgrade k at bottom of layer	=	0.0000 pci

NOTE: Default values for subgrade k will be computed for this layer.

Layer 5 is stiff clay with water-induced erosion

Distance from top of pile to top of layer	=	17.500000 ft
Distance from top of pile to bottom of layer	=	24.500000 ft
Effective unit weight at top of layer	=	95.000000 pcf
Effective unit weight at bottom of layer	=	95.000000 pcf
Undrained cohesion at top of layer	=	8000. psf
Undrained cohesion at bottom of layer	=	8000. psf
Epsilon-50 at top of layer	=	0.0000
Epsilon-50 at bottom of layer	=	0.0000
Subgrade k at top of layer	=	0.0000 pci
Subgrade k at bottom of layer	=	0.0000 pci

NOTE: Default values for Epsilon-50 will be computed for this layer.

NOTE: Default values for subgrade k will be computed for this layer.

(Depth of the lowest soil layer extends 0.000 ft below the pile tip)

Summary of Input Soil Properties

Layer Num.	Soil Type Name (p-y Curve Type)	Layer Depth ft	Effective Unit Wt. pcf	Undrained Cohesion psf	Angle of Friction deg.	E50 or krm	kpy pci
1	Soft	0.5000	100.0000	100.0000	--	default	--

	Clay	5.5000	100.0000	100.0000	--	default	--
2	Sand	5.5000	60.0000	--	35.0000	--	default
	(Reese, et al.)	10.5000	60.0000	--	35.0000	--	default
3	Sand	10.5000	55.0000	--	33.0000	--	default
	(Reese, et al.)	15.5000	55.0000	--	33.0000	--	default
4	Sand	15.5000	80.0000	--	40.0000	--	default
	(Reese, et al.)	17.5000	80.0000	--	40.0000	--	default
5	Stiff Clay	17.5000	95.0000	8000.	--	default	default
	with Free Water	24.5000	95.0000	8000.	--	default	default

Static Loading Type

Static loading criteria were used when computing p-y curves for all analyses.

Pile-head Loading and Pile-head Fixity Conditions

Number of loads specified = 1

Load No.	Load Type	Condition 1	Condition 2	Axial Thrust Force, lbs	Compute Top y vs. Pile Length
1	1	V = 39000. lbs	M = 58164000. in-lbs	52000.	No

V = shear force applied normal to pile axis
M = bending moment applied to pile head
y = lateral deflection normal to pile axis
S = pile slope relative to original pile batter angle
R = rotational stiffness applied to pile head
Values of top y vs. pile lengths can be computed only for load types with
specified shear loading (Load Types 1, 2, and 3).
Thrust force is assumed to be acting axially for all pile batter angles.

Computations of Nominal Moment Capacity and Nonlinear Bending Stiffness

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Axial thrust force values were determined from pile-head loading conditions

Number of Pile Sections Analyzed = 1

Pile Section No. 1:

Dimensions and Properties of Drilled Shaft (Bored Pile):

Length of Section = 24.500000 ft
Shaft Diameter = 96.000000 in
Concrete Cover Thickness = 4.625000 in
Number of Reinforcing Bars = 24 bars
Yield Stress of Reinforcing Bars = 60000. psi
Modulus of Elasticity of Reinforcing Bars = 29000000. psi
Gross Area of Shaft = 7238. sq. in.
Total Area of Reinforcing Steel = 37.440000 sq. in.
Area Ratio of Steel Reinforcement = 0.52 percent
Edge-to-Edge Bar Spacing = 9.729105 in
Maximum Concrete Aggregate Size = 0.750000 in
Ratio of Bar Spacing to Aggregate Size = 12.97
Offset of Center of Rebar Cage from Center of Pile = 0.0000 in

Axial Structural Capacities:

Nom. Axial Structural Capacity = 0.85 Fc Ac + Fy As = 20608.413 kips
Tensile Load for Cracking of Concrete = -2732.748 kips
Nominal Axial Tensile Capacity = -2246.400 kips

Reinforcing Bar Dimensions and Positions Used in Computations:

Bar Number	Bar Diam. inches	Bar Area sq. in.	X inches	Y inches
1	1.410000	1.560000	42.670000	0.00000
2	1.410000	1.560000	41.216055	11.043809
3	1.410000	1.560000	36.953304	21.335000
4	1.410000	1.560000	30.172246	30.172246
5	1.410000	1.560000	21.335000	36.953304
6	1.410000	1.560000	11.043809	41.216055
7	1.410000	1.560000	0.00000	42.670000
8	1.410000	1.560000	-11.043809	41.216055
9	1.410000	1.560000	-21.335000	36.953304
10	1.410000	1.560000	-30.172246	30.172246
11	1.410000	1.560000	-36.953304	21.335000
12	1.410000	1.560000	-41.216055	11.043809
13	1.410000	1.560000	-42.670000	0.00000
14	1.410000	1.560000	-41.216055	-11.043809
15	1.410000	1.560000	-36.953304	-21.335000
16	1.410000	1.560000	-30.172246	-30.172246
17	1.410000	1.560000	-21.335000	-36.953304
18	1.410000	1.560000	-11.043809	-41.216055
19	1.410000	1.560000	0.00000	-42.670000
20	1.410000	1.560000	11.043809	-41.216055
21	1.410000	1.560000	21.335000	-36.953304
22	1.410000	1.560000	30.172246	-30.172246
23	1.410000	1.560000	36.953304	-21.335000
24	1.410000	1.560000	41.216055	-11.043809

NOTE: The positions of the above rebars were computed by LPile

Minimum spacing between any two bars not equal to zero = 9.729 inches
between bars 9 and 10.

Ratio of bar spacing to maximum aggregate size = 12.97

Concrete Properties:

Compressive Strength of Concrete = 3000. psi
Modulus of Elasticity of Concrete = 3122019. psi
Modulus of Rupture of Concrete = -410.791918 psi
Compression Strain at Peak Stress = 0.001634
Tensile Strain at Fracture of Concrete = -0.0001160
Maximum Coarse Aggregate Size = 0.750000 in

Number of Axial Thrust Force Values Determined from Pile-head Loadings = 1

Number	Axial Thrust Force kips
1	52.000

Definitions of Run Messages and Notes:

C = concrete in section has cracked in tension.
Y = stress in reinforcing steel has reached yield stress.
T = ACI 318 criteria for tension-controlled section met, tensile strain in reinforcement exceeds 0.005 while simultaneously compressive strain in concrete more than 0.003. See ACI 318, Section 10.3.4.
Z = depth of tensile zone in concrete section is less than 10 percent of section depth.

Bending Stiffness (EI) = Computed Bending Moment / Curvature.
Position of neutral axis is measured from edge of compression side of pile.
Compressive stresses and strains are positive in sign.
Tensile stresses and strains are negative in sign.

Axial Thrust Force = 52.000 kips

Bending Curvature rad/in.	Bending Moment in-kip	Bending Stiffness kip-in2	Depth to N Axis in	Max Comp Strain in/in	Max Tens Strain in/in	Max Conc Stress ksi	Max Steel Stress ksi	Run Msg
3.12500E-07	5040.	1.61291E+10	54.0662785	0.00001690	-0.00001310	0.0611911	0.4856256	
6.25000E-07	10052.	1.60827E+10	51.0445088	0.00003190	-0.00002810	0.1149532	0.9164817	
9.37500E-07	15033.	1.60357E+10	50.0373298	0.00004691	-0.00004309	0.1682192	1.3473399	
0.00000125	19986.	1.59885E+10	49.5337875	0.00006192	-0.00005808	0.2209891	1.7781998	
0.00000156	24908.	1.59413E+10	49.2316990	0.00007692	-0.00007308	0.2732629	2.2090614	
0.00000188	29801.	1.58940E+10	49.0303366	0.00009193	-0.00008807	0.3250405	2.6399245	
0.00000219	34665.	1.58468E+10	48.8865323	0.0001069	-0.0001031	0.3763221	3.0707894	
0.00000250	34665.	1.38659E+10	23.4704332	0.00005868	-0.0001813	0.2073937	-5.2235936	C
0.00000281	34665.	1.23253E+10	23.0874025	0.00006493	-0.0002051	0.2289941	-5.9077837	C

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   0.00000313       34665.   1.10927E+10    22.7822125    0.00007119    -0.0002288     0.2505243
-6.5918620 C
   0.00000344       34665.   1.00843E+10    22.5322797    0.00007745    -0.0002525     0.2719677
-7.2759634 C
   0.00000375       34665.   9243943899.    22.3155383    0.00008368    -0.0002763     0.2932165
-7.9609852 C
   0.00000406       34665.   8532871291.    22.1331233    0.00008992    -0.0003001     0.3143960
-8.6458914 C
   0.00000438       34665.   7923380485.    21.9776820    0.00009615    -0.0003238     0.3355061
-9.3306816 C
   0.00000469       34665.   7395155119.    21.8438223     0.0001024    -0.0003476     0.3565469
-10.0153554 C
   0.00000500       34665.   6932957924.    21.7275005     0.0001086    -0.0003714     0.3775180
-10.6999124 C
   0.00000531       34665.   6525136870.    21.6256240     0.0001149    -0.0003951     0.3984194
-11.3843523 C
   0.00000563       34665.   6162629266.    21.5323288     0.0001211    -0.0004189     0.4191848
-12.0692389 C
   0.00000594       34665.   5838280357.    21.4483307     0.0001273    -0.0004427     0.4398564
-12.7542155 C
   0.00000625       34665.   5546366339.    21.3734091     0.0001336    -0.0004664     0.4604591
-13.4390696 C
   0.00000656       34665.   5282253656.    21.3062698     0.0001398    -0.0004902     0.4809929
-14.1238005 C
   0.00000688       34665.   5042151218.    21.2458536     0.0001461    -0.0005139     0.5014577
-14.8084079 C
   0.00000719       34665.   4822927252.    21.1912857     0.0001523    -0.0005377     0.5218532
-15.4928914 C
   0.00000750       34665.   4621971949.    21.1418371     0.0001586    -0.0005614     0.5421794
-16.1772504 C
   0.00000781       34665.   4437093071.    21.0968954     0.0001648    -0.0005852     0.5624362
-16.8614846 C
   0.00000813       34665.   4266435646.    21.0559426     0.0001711    -0.0006089     0.5826234
-17.5455935 C
   0.00000844       34665.   4108419511.    21.0185371     0.0001773    -0.0006327     0.6027409
-18.2295767 C
   0.00000875       34665.   3961690242.    20.9843008     0.0001836    -0.0006564     0.6227885
-18.9134336 C
   0.00000906       34665.   3825080234.    20.9529075     0.0001899    -0.0006801     0.6427662
-19.5971640 C
   0.00000938       34665.   3697577560.    20.9240746     0.0001962    -0.0007038     0.6626738
-20.2807672 C
   0.00000969       34665.   3578300864.    20.8975559     0.0002024    -0.0007276     0.6825112
-20.9642429 C
   0.00001000       34665.   3466478962.    20.8731361     0.0002087    -0.0007513     0.7022782
-21.6475905 C
   0.00001031       34665.   3361434145.    20.8506260     0.0002150    -0.0007750     0.7219748
-22.3308096 C
   0.00001063       34665.   3262568435.    20.8298585     0.0002213    -0.0007987     0.7416007
-23.0138998 C
   0.00001094       34665.   3169352194.    20.8106858     0.0002276    -0.0008224     0.7611559
-23.6968606 C
   0.00001125       34665.   3081314633.    20.7929764     0.0002339    -0.0008461     0.7806402
-24.3796917 C
   0.00001156       34665.   2998035859.    20.7766131     0.0002402    -0.0008698     0.8000535
-25.0623921 C
   0.00001188       34665.   2919140179.    20.7614912     0.0002465    -0.0008935     0.8193956
-25.7449617 C
   0.00001219       34665.   2844290430.    20.7475163     0.0002529    -0.0009171     0.8386665
-26.4273999 C
   0.00001281       34665.   2705544556.    20.7226776     0.0002655    -0.0009645     0.8769939
-27.7918801 C
   0.00001344       34665.   2579705274.    20.7015129     0.0002782    -0.0010118     0.9150344
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-29.1558292 C
   0.00001406   34665.   2465051706.   20.6835423   0.0002909   -0.0010591   0.9527871
-30.5192429 C
   0.00001469   34665.   2360155889.   20.6683675   0.0003036   -0.0011064   0.9902507
-31.8821175 C
   0.00001531   34979.   2284346934.   20.6556555   0.0003163   -0.0011537   1.0274242
-33.2444482 C
   0.00001594   36331.   2279580033.   20.6451255   0.0003290   -0.0012010   1.0643065
-34.6062312 C
   0.00001656   37681.   2275093301.   20.6363368   0.0003418   -0.0012482   1.1008865
-35.9675594 C
   0.00001719   39030.   2270855610.   20.6290886   0.0003546   -0.0012954   1.1371624
-37.3284387 C
   0.00001781   40378.   2266840662.   20.6234960   0.0003674   -0.0013426   1.1731470
-38.6887254 C
   0.00001844   41725.   2263025246.   20.6193999   0.0003802   -0.0013898   1.2088391
-40.0484146 C
   0.00001906   43070.   2259389228.   20.6166622   0.0003930   -0.0014370   1.2442375
-41.4075014 C
   0.00001969   44413.   2255915024.   20.6151624   0.0004059   -0.0014841   1.2793409
-42.7659807 C
   0.00002031   45756.   2252587206.   20.6147951   0.0004187   -0.0015313   1.3141480
-44.1238472 C
   0.00002094   47097.   2249392182.   20.6154675   0.0004316   -0.0015784   1.3486575
-45.4810957 C
   0.00002156   48436.   2246317930.   20.6170978   0.0004446   -0.0016254   1.3828681
-46.8377210 C
   0.00002219   49774.   2243353775.   20.6196135   0.0004575   -0.0016725   1.4167785
-48.1937174 C
   0.00002281   51111.   2240490205.   20.6229500   0.0004705   -0.0017195   1.4503873
-49.5490796 C
   0.00002344   52447.   2237718716.   20.6270500   0.0004834   -0.0017666   1.4836931
-50.9038020 C
   0.00002406   53780.   2235031682.   20.6318621   0.0004965   -0.0018135   1.5166946
-52.2578787 C
   0.00002469   55113.   2232422242.   20.6373403   0.0005095   -0.0018605   1.5493904
-53.6113042 C
   0.00002531   56444.   2229884475.   20.6432455   0.0005225   -0.0019075   1.5817664
-54.9642175 C
   0.00002594   57774.   2227412771.   20.6495499   0.0005356   -0.0019544   1.6138213
-56.3166168 C
   0.00002656   59102.   2225002000.   20.6563741   0.0005487   -0.0020013   1.6455633
-57.6683870 C
   0.00002719   60428.   2222647529.   20.6636891   0.0005618   -0.0020482   1.6769910
-59.0195229 C
   0.00002781   61753.   2220345162.   20.6714686   0.0005749   -0.0020951   1.7081030
-60.0000000 CY
   0.00002844   63077.   2218091066.   20.6796890   0.0005881   -0.0021419   1.7388978
-60.0000000 CY
   0.00002906   64399.   2215881732.   20.6883285   0.0006013   -0.0021887   1.7693739
-60.0000000 CY
   0.00002969   65686.   2212586787.   20.6939636   0.0006144   -0.0022356   1.7992952
-60.0000000 CY
   0.00003031   66806.   2203919496.   20.6833959   0.0006270   -0.0022830   1.8277369
-60.0000000 CY
   0.00003094   67729.   2189209566.   20.6540698   0.0006390   -0.0023310   1.8544912
-60.0000000 CY
   0.00003156   68635.   2174578276.   20.6240126   0.0006509   -0.0023791   1.8808025
-60.0000000 CY
   0.00003219   69507.   2159428559.   20.5911087   0.0006628   -0.0024272   1.9065216
-60.0000000 CY
   0.00003281   70179.   2138783087.   20.5384866   0.0006739   -0.0024761   1.9304331
-60.0000000 CY

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   0.00003344        70832.   2118349107.    20.4863157     0.0006850    -0.0025250     1.9539704
-60.0000000 CY
   0.00003406        71485.   2098644228.    20.4364788     0.0006961    -0.0025739     1.9772764
-60.0000000 CY
   0.00003469        72137.   2079628921.    20.3888522     0.0007072    -0.0026228     2.0003504
-60.0000000 CY
   0.00003531        72785.   2061176454.    20.3429678     0.0007184    -0.0026716     2.0231652
-60.0000000 CY
   0.00003594        73364.   2041445348.    20.2914966     0.0007292    -0.0027208     2.0451819
-60.0000000 CY
   0.00003656        73822.   2019050392.    20.2288171     0.0007396    -0.0027704     2.0659762
-60.0000000 CY
   0.00003719        74261.   1996929056.    20.1666674     0.0007499    -0.0028201     2.0864226
-60.0000000 CY
   0.00003969        76013.   1915281211.    19.9406208     0.0007914    -0.0030186     2.1661745
-60.0000000 CY
   0.00004219        77641.   1840383362.    19.7329550     0.0008325    -0.0032175     2.2416296
-60.0000000 CY
   0.00004469        78735.   1761910591.    19.4831343     0.0008707    -0.0034193     2.3083630
-60.0000000 CY
   0.00004719        79813.   1691394564.    19.2586779     0.0009088    -0.0036212     2.3719357
-60.0000000 CY
   0.00004969        80884.   1627859214.    19.0601026     0.0009470    -0.0038230     2.4327057
-60.0000000 CY
   0.00005219        81831.   1568019142.    18.8690151     0.0009847    -0.0040253     2.4894723
-60.0000000 CY
   0.00005469        82455.   1507743331.    18.6557729     0.0010202    -0.0042298     2.5401361
-60.0000000 CY
   0.00005719        83056.   1452338118.    18.4510598     0.0010552    -0.0044348     2.5873654
-60.0000000 CY
   0.00005969        83653.   1401509834.    18.2658565     0.0010902    -0.0046398     2.6322175
-60.0000000 CY
   0.00006219        84246.   1354705299.    18.0978478     0.0011255    -0.0048445     2.6746630
-60.0000000 CY
   0.00006469        84835.   1311456786.    17.9450776     0.0011608    -0.0050492     2.7146719
-60.0000000 CY
   0.00006719        85420.   1271366152.    17.8058827     0.0011963    -0.0052537     2.7522132
-60.0000000 CY
   0.00006969        85852.   1231960259.    17.6500684     0.0012300    -0.0054600     2.7852895
-60.0000000 CY
   0.00007219        86151.   1193434270.    17.4842133     0.0012621    -0.0056679     2.8146268
-60.0000000 CY
   0.00007469        86447.   1157452440.    17.3311550     0.0012944    -0.0058756     2.8419166
-60.0000000 CY
   0.00007719        86741.   1123766881.    17.1896742     0.0013268    -0.0060832     2.8671338
-60.0000000 CY
   0.00007969        87032.   1092160803.    17.0587056     0.0013594    -0.0062906     2.8902529
-60.0000000 CY
   0.00008219        87320.   1062443772.    16.9373143     0.0013920    -0.0064980     2.9112474
-60.0000000 CY
   0.00008469        87605.   1034447828.    16.8246770     0.0014248    -0.0067052     2.9300906
-60.0000000 CY
   0.00008719        87880.   1007942249.    16.7113346     0.0014570    -0.0069130     2.9463816
-60.0000000 CY
   0.00008969        88150.    982861211.    16.6033044     0.0014891    -0.0071209     2.9604767
-60.0000000 CY
   0.00009219        88418.    959111757.    16.5026351     0.0015213    -0.0073287     2.9724752
-60.0000000 CY
   0.00009469        88683.    936587837.    16.4087712     0.0015537    -0.0075363     2.9823488
-60.0000000 CY
   0.00009719        88939.    915124125.    16.3199874     0.0015861    -0.0077439     2.9900432
-60.0000000 CY
   0.00009969        89184.    894636661.    16.2358338     0.0016185    -0.0079515     2.9955523
```

-60.0000000 CY						
0.0001022	89326.	874137357.	16.1389549	0.0016492	-0.0081608	2.9987452
-60.0000000 CY						
0.0001047	89456.	854502549.	16.0461663	0.0016798	-0.0083702	2.9999822
-60.0000000 CY						
0.0001072	89574.	835674644.	15.9575497	0.0017104	-0.0085796	2.9947155
-60.0000000 CY						
0.0001097	89690.	817687211.	15.8741228	0.0017412	-0.0087888	2.9971538
-60.0000000 CY						
0.0001122	89799.	800440750.	15.7895577	0.0017714	-0.0089986	2.9993676
-60.0000000 CY						
0.0001147	89903.	783898460.	15.7054598	0.0018012	-0.0092088	2.9994783
-60.0000000 CY						
0.0001172	90005.	768039833.	15.6264167	0.0018312	-0.0094188	2.9939945
-60.0000000 CY						
0.0001197	90105.	752832684.	15.5515734	0.0018613	-0.0096287	2.9960227
-60.0000000 CY						
0.0001222	90203.	738236813.	15.4806865	0.0018915	-0.0098385	2.9986021
-60.0000000 CY						
0.0001247	90301.	724215235.	15.4135327	0.0019219	-0.0100481	2.9998656
-60.0000000 CY						
0.0001272	90396.	710728097.	15.3502314	0.0019524	-0.0102576	2.9971857
-60.0000000 CY						
0.0001297	90489.	697747538.	15.2903924	0.0019830	-0.0104670	2.9920727
-60.0000000 CY						
0.0001322	90581.	685249786.	15.2335429	0.0020137	-0.0106763	2.9953917
-60.0000000 CY						
0.0001347	90673.	673207805.	15.1795275	0.0020445	-0.0108855	2.9980530
-60.0000000 CY						
0.0001372	90763.	661596529.	15.1282027	0.0020754	-0.0110946	2.9995895
-60.0000000 CY						
0.0001522	91275.	599752896.	14.8696275	0.0022630	-0.0123470	2.9991163
60.0000000 CY						
0.0001672	91708.	548534073.	14.6390769	0.0024475	-0.0136025	2.9946727
60.0000000 CY						
0.0001822	91948.	504688095.	14.4141664	0.0026261	-0.0148639	2.9936497
60.0000000 CY						
0.0001972	92080.	466969015.	14.2092817	0.0028019	-0.0161281	2.9956623
60.0000000 CY						
0.0002122	92205.	434542648.	14.0415119	0.0029794	-0.0173906	2.9954667
60.0000000 CY						
0.0002272	92315.	406339981.	13.9010832	0.0031582	-0.0186518	2.9861094
60.0000000 CYT						
0.0002422	92408.	381554730.	13.7571196	0.0033318	-0.0199182	2.9976720
60.0000000 CYT						
0.0002572	92477.	359568891.	13.6476258	0.0035100	-0.0211800	2.9948715
60.0000000 CYT						
0.0002722	92537.	339974312.	13.5579325	0.0036903	-0.0224397	2.9798536
60.0000000 CYT						
0.0002872	92591.	322407616.	13.4828628	0.0038721	-0.0236979	2.9876293
60.0000000 CYT						

Summary of Results for Nominal (Unfactored) Moment Capacity for Section 1

Moment values interpolated at maximum compressive strain = 0.003
or maximum developed moment if pile fails at smaller strains.

Load No.	Axial Thrust kips	Nominal Mom. Cap. in-kip	Max. Comp. Strain

1	52.000	92217.274	0.00300000

Note that the values of moment capacity in the table above are not factored by a strength reduction factor (phi-factor).

In ACI 318, the value of the strength reduction factor depends on whether the transverse reinforcing steel bars are tied hoops (0.65) or spirals (0.70).

The above values should be multiplied by the appropriate strength reduction factor to compute ultimate moment capacity according to ACI 318, Section 9.3.2.2 or the value required by the design standard being followed.

The following table presents factored moment capacities and corresponding bending stiffnesses computed for common resistance factor values used for reinforced concrete sections.

Axial Load No.	Resist. Factor for Moment	Nominal Moment Cap in-kips	Ult. (Fac) Ax. Thrust kips	Ult. (Fac) Moment Cap in-kips	Bend. Stiff. at Ult Mom kip-in^2
1	0.65	92217.	33.800000	59941.	2.2235E+09
1	0.70	92217.	36.400000	64552.	2.2155E+09
1	0.75	92217.	39.000000	69163.	2.1654E+09

Layering Correction Equivalent Depths of Soil & Rock Layers

Layer No.	Top of Layer Below Pile Head ft	Equivalent Top Depth Below Grnd Surf ft	Same Layer Type As Layer Above	Layer is Rock or is Below Rock Layer	F0 Integral for Layer lbs	F1 Integral for Layer lbs
1	0.5000	0.00	N.A.	No	0.00	22625.
2	5.5000	2.2931	No	No	22625.	320659.
3	10.5000	7.2931	Yes	No	343284.	442124.
4	15.5000	12.2931	Yes	No	785408.	366636.
5	17.5000	198.2611	No	No	1152044.	N.A.

Notes: The F0 integral of Layer n+1 equals the sum of the F0 and F1 integrals for Layer n. Layering correction equivalent depths are computed only for soil types with both shallow-depth and deep-depth expressions for peak lateral load transfer. These soil types are soft and stiff clays, non-liquefied sands, and cemented c-phi soil.

Computed Values of Pile Loading and Deflection for Lateral Loading for Load Case Number 1

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head	=	39000.0 lbs
Applied moment at pile head	=	58164000.0 in-lbs
Axial thrust load on pile head	=	52000.0 lbs

Depth	Deflect.	Bending	Shear	Slope	Total	Bending	Soil Res.	Soil Spr.	Distrib.
X	y	Moment	Force	S	Stress	Stiffness	p	Es*h	Lat. Load
feet	inches	in-lbs	lbs	radians	psi*	in-lb^2	lb/inch	lb/inch	lb/inch
0.00	1.1775	5.82E+07	39000.	-0.00797	0.00	2.23E+12	0.00	0.00	0.00
0.2450	1.1542	5.83E+07	39000.	-0.00790	0.00	2.23E+12	0.00	0.00	0.00
0.4900	1.1310	5.84E+07	39000.	-0.00782	0.00	2.23E+12	0.00	0.00	0.00
0.7350	1.1082	5.85E+07	38902.	-0.00774	0.00	2.23E+12	-66.4525	176.2998	0.00
0.9800	1.0855	5.86E+07	38700.	-0.00767	0.00	2.23E+12	-71.2832	193.0619	0.00
1.2250	1.0631	5.87E+07	38483.	-0.00759	0.00	2.23E+12	-76.0389	210.2858	0.00
1.4700	1.0409	5.89E+07	38253.	-0.00751	0.00	2.23E+12	-80.7192	227.9888	0.00
1.7150	1.0189	5.90E+07	38009.	-0.00743	0.00	2.23E+12	-85.3236	246.1890	0.00
1.9600	0.9972	5.91E+07	37751.	-0.00735	0.00	2.23E+12	-89.8516	264.9052	0.00
2.2050	0.9757	5.92E+07	37481.	-0.00728	0.00	2.22E+12	-94.3029	284.1572	0.00
2.4500	0.9544	5.93E+07	37197.	-0.00720	0.00	2.22E+12	-98.6769	303.9659	0.00
2.6950	0.9334	5.94E+07	36900.	-0.00712	0.00	2.22E+12	-102.9732	324.3530	0.00
2.9400	0.9126	5.95E+07	36592.	-0.00704	0.00	2.22E+12	-107.1914	345.3414	0.00
3.1850	0.8920	5.96E+07	36270.	-0.00696	0.00	2.22E+12	-111.3308	366.9553	0.00
3.4300	0.8716	5.97E+07	35937.	-0.00688	0.00	2.22E+12	-115.3912	389.2197	0.00
3.6750	0.8515	5.98E+07	35592.	-0.00680	0.00	2.22E+12	-119.3719	412.1614	0.00
3.9200	0.8316	5.99E+07	35235.	-0.00673	0.00	2.22E+12	-123.2725	435.8082	0.00
4.1650	0.8120	6.01E+07	34867.	-0.00665	0.00	2.22E+12	-127.0924	460.1895	0.00
4.4100	0.7925	6.02E+07	34488.	-0.00657	0.00	2.22E+12	-130.8312	485.3364	0.00
4.6550	0.7733	6.03E+07	34098.	-0.00649	0.00	2.22E+12	-134.4883	511.2814	0.00
4.9000	0.7544	6.04E+07	33697.	-0.00641	0.00	2.22E+12	-138.0632	538.0590	0.00
5.1450	0.7357	6.05E+07	33286.	-0.00633	0.00	2.22E+12	-141.5553	565.7054	0.00
5.3900	0.7172	6.06E+07	32865.	-0.00625	0.00	2.22E+12	-144.9642	594.2589	0.00
5.6350	0.6989	6.07E+07	29302.	-0.00617	0.00	2.22E+12	-2279.	9586.	0.00
5.8800	0.6809	6.07E+07	22497.	-0.00609	0.00	2.22E+12	-2351.	10149.	0.00
6.1250	0.6632	6.08E+07	15482.	-0.00601	0.00	2.22E+12	-2421.	10734.	0.00
6.3700	0.6456	6.08E+07	8263.	-0.00593	0.00	2.22E+12	-2490.	11339.	0.00

6.6150	0.6283	6.08E+07	843.8966	-0.00585	0.00	2.22E+12	-2557.	11965.	0.00
6.8600	0.6112	6.08E+07	-6770.	-0.00576	0.00	2.22E+12	-2622.	12613.	0.00
7.1050	0.5944	6.08E+07	-14573.	-0.00568	0.00	2.22E+12	-2686.	13284.	0.00
7.3500	0.5778	6.07E+07	-22563.	-0.00560	0.00	2.22E+12	-2750.	13993.	0.00
7.5950	0.5615	6.07E+07	-30744.	-0.00552	0.00	2.22E+12	-2815.	14740.	0.00
7.8400	0.5453	6.06E+07	-39113.	-0.00544	0.00	2.22E+12	-2878.	15516.	0.00
8.0850	0.5295	6.04E+07	-47665.	-0.00536	0.00	2.22E+12	-2939.	16322.	0.00
8.3300	0.5138	6.03E+07	-56394.	-0.00528	0.00	2.22E+12	-2999.	17159.	0.00
8.5750	0.4984	6.01E+07	-65294.	-0.00520	0.00	2.22E+12	-3056.	18027.	0.00
8.8200	0.4832	5.99E+07	-74360.	-0.00512	0.00	2.22E+12	-3111.	18928.	0.00
9.0650	0.4683	5.97E+07	-83584.	-0.00505	0.00	2.22E+12	-3164.	19864.	0.00
9.3100	0.4535	5.94E+07	-92960.	-0.00497	0.00	2.22E+12	-3214.	20836.	0.00
9.5550	0.4391	5.91E+07	-102480.	-0.00489	0.00	2.22E+12	-3262.	21845.	0.00
9.8000	0.4248	5.88E+07	-112139.	-0.00481	0.00	2.23E+12	-3308.	22894.	0.00
10.0450	0.4108	5.85E+07	-121927.	-0.00473	0.00	2.23E+12	-3351.	23982.	0.00
10.2900	0.3970	5.81E+07	-131837.	-0.00466	0.00	2.23E+12	-3391.	25113.	0.00
10.5350	0.3834	5.77E+07	-141236.	-0.00458	0.00	2.23E+12	-3003.	23027.	0.00
10.7800	0.3700	5.73E+07	-150099.	-0.00450	0.00	2.23E+12	-3027.	24047.	0.00
11.0250	0.3569	5.68E+07	-159029.	-0.00443	0.00	2.23E+12	-3048.	25106.	0.00
11.2700	0.3440	5.63E+07	-168018.	-0.00435	0.00	2.23E+12	-3067.	26216.	0.00
11.5150	0.3313	5.58E+07	-176695.	-0.00428	0.00	2.23E+12	-2835.	25160.	0.00
11.7600	0.3188	5.53E+07	-184963.	-0.00421	0.00	2.23E+12	-2789.	25719.	0.00
12.0050	0.3066	5.47E+07	-193092.	-0.00413	0.00	2.23E+12	-2740.	26279.	0.00
12.2500	0.2945	5.42E+07	-201072.	-0.00406	0.00	2.23E+12	-2689.	26838.	0.00
12.4950	0.2827	5.36E+07	-208897.	-0.00399	0.00	2.24E+12	-2634.	27398.	0.00
12.7400	0.2711	5.29E+07	-216559.	-0.00392	0.00	2.24E+12	-2578.	27958.	0.00
12.9850	0.2596	5.23E+07	-224050.	-0.00385	0.00	2.24E+12	-2518.	28517.	0.00
13.2300	0.2484	5.16E+07	-231364.	-0.00378	0.00	2.24E+12	-2457.	29077.	0.00
13.4750	0.2374	5.09E+07	-238493.	-0.00372	0.00	2.24E+12	-2393.	29636.	0.00
13.7200	0.2266	5.02E+07	-245431.	-0.00365	0.00	2.24E+12	-2327.	30196.	0.00
13.9650	0.2159	4.95E+07	-252171.	-0.00359	0.00	2.24E+12	-2259.	30756.	0.00
14.2100	0.2055	4.87E+07	-258709.	-0.00352	0.00	2.25E+12	-2189.	31315.	

0.00
14.4550 0.1952 4.80E+07 -265037. -0.00346 0.00 2.25E+12 -2116. 31875.
0.00
14.7000 0.1851 4.72E+07 -271151. -0.00340 0.00 2.25E+12 -2042. 32435.
0.00
14.9450 0.1752 4.64E+07 -277044. -0.00333 0.00 2.25E+12 -1967. 32994.
0.00
15.1900 0.1655 4.56E+07 -282712. -0.00327 0.00 2.25E+12 -1889. 33554.
0.00
15.4350 0.1560 4.47E+07 -288150. -0.00322 0.00 2.26E+12 -1810. 34113.
0.00
15.6800 0.1466 4.39E+07 -296551. -0.00316 0.00 2.26E+12 -3905. 78301.
0.00
15.9250 0.1374 4.30E+07 -307759. -0.00310 0.00 2.26E+12 -3719. 79565.
0.00
16.1700 0.1284 4.21E+07 -318415. -0.00305 0.00 2.26E+12 -3530. 80828.
0.00
16.4150 0.1195 4.11E+07 -328509. -0.00299 0.00 2.26E+12 -3337. 82092.
0.00
16.6600 0.1108 4.01E+07 -338033. -0.00294 0.00 2.27E+12 -3141. 83356.
0.00
16.9050 0.1022 3.91E+07 -346976. -0.00289 0.00 2.27E+12 -2942. 84620.
0.00
17.1500 0.09382 3.81E+07 -355330. -0.00284 0.00 2.27E+12 -2741. 85883.
0.00
17.3950 0.08554 3.70E+07 -363086. -0.00279 0.00 2.28E+12 -2536. 87147.
0.00
17.6400 0.07741 3.59E+07 -386174. -0.00274 0.00 2.28E+12 -13171. 500190.
0.00
17.8850 0.06942 3.48E+07 -423869. -0.00271 0.00 1.19E+13 -12472. 528207.
0.00
18.1300 0.06145 3.35E+07 -459453. -0.00271 0.00 1.59E+13 -11734. 561414.
0.00
18.3750 0.05350 3.21E+07 -492797. -0.00270 0.00 1.59E+13 -10949. 601689.
0.00
18.6200 0.04557 3.06E+07 -523746. -0.00270 0.00 1.59E+13 -10105. 651971.
0.00
18.8650 0.03765 2.90E+07 -552101. -0.00269 0.00 1.59E+13 -9185. 717254.
0.00
19.1100 0.02975 2.73E+07 -577604. -0.00268 0.00 1.59E+13 -8164. 806910.
0.00
19.3550 0.02186 2.56E+07 -599894. -0.00268 0.00 1.59E+13 -6999. 941276.
0.00
19.6000 0.01399 2.38E+07 -618413. -0.00268 0.00 1.60E+13 -5599. 1176718.
0.00
19.8450 0.00613 2.19E+07 -630825. -0.00267 0.00 1.60E+13 -2845. 1364983.
0.00
20.0900 -0.00172 2.01E+07 -633819. -0.00267 0.00 1.60E+13 808.5020 1382270.
0.00
20.3350 -0.00956 1.82E+07 -625943. -0.00266 0.00 1.60E+13 4549. 1399558.
0.00
20.5800 -0.01738 1.64E+07 -610081. -0.00266 0.00 1.60E+13 6241. 1055526.
0.00
20.8250 -0.02520 1.46E+07 -589860. -0.00266 0.00 1.60E+13 7515. 876645.
0.00
21.0700 -0.03301 1.29E+07 -566170. -0.00266 0.00 1.61E+13 8601. 765955.
0.00
21.3150 -0.04082 1.13E+07 -539469. -0.00265 0.00 1.61E+13 9563. 688855.
0.00
21.5600 -0.04861 9760486. -510069. -0.00265 0.00 1.61E+13 10437. 631198.
0.00
21.8050 -0.05641 8306396. -478200. -0.00265 0.00 1.61E+13 11242. 585980.
0.00

22.0500	-0.06419	6949479.	-444044.	-0.00265	0.00	1.61E+13	11993.	549287.	0.00
22.2950	-0.07198	5696228.	-407745.	-0.00265	0.00	1.61E+13	12700.	518736.	0.00
22.5400	-0.07976	4552748.	-369425.	-0.00265	0.00	1.61E+13	13368.	492784.	0.00
22.7850	-0.08754	3524819.	-329186.	-0.00265	0.00	1.61E+13	14005.	470381.	0.00
23.0300	-0.09531	2617946.	-287115.	-0.00264	0.00	1.61E+13	14614.	450784.	0.00
23.2750	-0.1031	1837390.	-243291.	-0.00264	0.00	1.61E+13	15198.	433451.	0.00
23.5200	-0.1109	1188205.	-197780.	-0.00264	0.00	1.61E+13	15761.	417977.	0.00
23.7650	-0.1186	675252.	-150644.	-0.00264	0.00	1.61E+13	16304.	404051.	0.00
24.0100	-0.1264	303227.	-101936.	-0.00264	0.00	1.61E+13	16830.	391431.	0.00
24.2550	-0.1342	76675.	-51707.	-0.00264	0.00	1.61E+13	17340.	379924.	0.00
24.5000	-0.1420	0.00	0.00	-0.00264	0.00	1.61E+13	17835.	184688.	0.00

* This analysis computed pile response using nonlinear moment-curvature relationships. Values of total stress due to combined axial and bending stresses are computed only for elastic sections only and do not equal the actual stresses in concrete and steel. Stresses in concrete and steel may be interpolated from the output for nonlinear bending properties relative to the magnitude of bending moment developed in the pile.

Output Summary for Load Case No. 1:

```
Pile-head deflection             =     1.17748302 inches
Computed slope at pile head      =    -0.00797390 radians
Maximum bending moment           =      60838408. inch-lbs
Maximum shear force              =       -633819. lbs
Depth of maximum bending moment  =     6.61500000 feet below pile head
Depth of maximum shear force     =    20.09000000 feet below pile head
Number of iterations             =             54
Number of zero deflection points =              1
```

Summary of Pile-head Responses for Conventional Analyses

Definitions of Pile-head Loading Conditions:

```
Load Type 1: Load 1 = Shear, V, lbs, and Load 2 = Moment, M, in-lbs
Load Type 2: Load 1 = Shear, V, lbs, and Load 2 = Slope, S, radians
Load Type 3: Load 1 = Shear, V, lbs, and Load 2 = Rot. Stiffness, R, in-lbs/rad.
Load Type 4: Load 1 = Top Deflection, y, inches, and Load 2 = Moment, M, in-lbs
Load Type 5: Load 1 = Top Deflection, y, inches, and Load 2 = Slope, S, radians
```

Load Case No.	Load Type 1	Pile-head Load 1	Load Type 2	Pile-head Load 2	Axial Loading lbs	Pile-head Deflection inches	Pile-head Rotation radians	Max Shear in Pile lbs	Max Moment in Pile in-lbs
1	V, lb	39000.	M, in-lb	5.82E+07	52000.	1.1775	-0.00797	-633819.	6.08E+07

```
Maximum pile-head deflection = 1.1774830152 inches
Maximum pile-head rotation   = -0.0079739048 radians = -0.456871 deg.

The analysis ended normally.
```

Drilled Pier Foundation

BU # :	842875
Site Name:	WONDSORY HILL
Order Number:	517092, Rev 0

TIA-222 Revison:	H
Tower Type:	Monopole

Applied Loads	Comp.	Uplift
Moment (kip-ft)	4847.09	
Axial Force (kips)	52.15	
Shear Force (kips)	39.18	

Material Properties		
Concrete Strength, f'c:	3	ksi
Rebar Strength, Fy:	60	ksi
Tie Yield Strength, Fyt:	40	ksi

Pier Design Data		
Depth	24	ft
Ext. Above Grade	0.5	ft
Pier Section 1		
From 0.5' above grade to 24' below grade		
Pier Diameter	8	ft
Rebar Quantity	24	
Rebar Size	11	
Clear Cover to Ties	4	in
Tie Size	5	
Tie Spacing	18	in

Rebar & Pier Options

Embedded Pole Inputs

Belled Pier Inputs

Analysis Results		
Soil Lateral Check	*Compression*	*Uplift*
$D_{v=0}$ (ft from TOC)	8.73	-
Soil Safety Factor	4.09	-
Max Moment (kip-ft)	5149.03	-
Rating*	*31.0%*	-
Soil Vertical Check	*Compression*	*Uplift*
Skin Friction (kips)	1187.52	-
End Bearing (kips)	3015.93	-
Weight of Concrete (kips)	150.11	-
Total Capacity (kips)	4203.45	-
Axial (kips)	202.26	-
Rating*	*4.6%*	-
Reinforced Concrete Flexure	*Compression*	*Uplift*
Critical Depth (ft from TOC)	8.22	-
Critical Moment (kip-ft)	5147.07	-
Critical Moment Capacity	6981.48	-
Rating*	*70.2%*	-
Reinforced Concrete Shear	*Compression*	*Uplift*
Critical Depth (ft from TOC)	20.09	-
Critical Shear (kip)	633.80	-
Critical Shear Capacity	817.88	-
Rating*	*77.5%*	-

Soil Interaction Rating*	**31.0%**
Structural Foundation Rating*	**77.5%**

*Rating per TIA-222-H Section 15.5

Check Limitation	
Apply TIA-222-H Section 15.5:	☑
N/A	☐
Shear Design Options	
Check Shear along Depth of Pier:	☑
Utilize Shear-Friction Methodology:	☐

Go to Soil Calculations

Soil Profile

Groundwater Depth	5	# of Layers	5

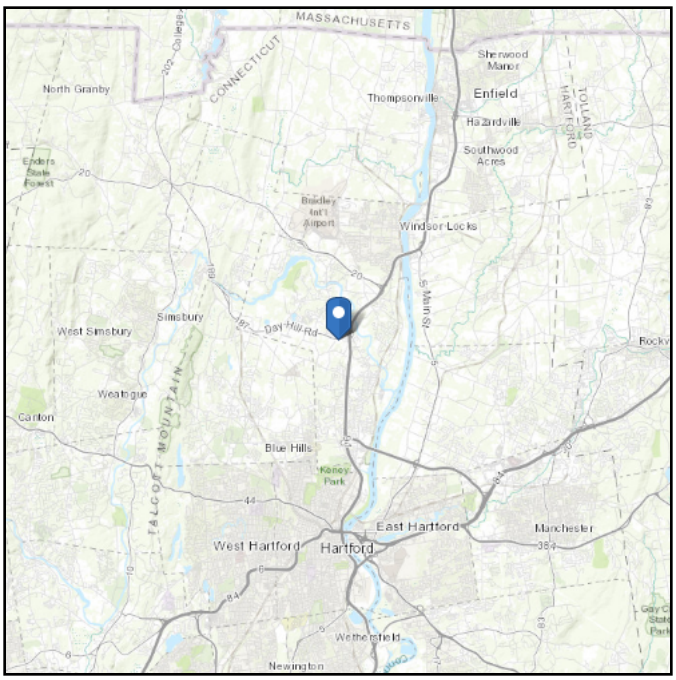
Layer	Top (ft)	Bottom (ft)	Thickness (ft)	γ_{soil} (pcf)	$\gamma_{concrete}$ (pcf)	Cohesion (ksf)	Angle of Friction (degrees)	Calculated Ultimate Skin Friction Comp (ksf)	Calculated Ultimate Skin Friction Uplift (ksf)	Ultimate Skin Friction Comp Override (ksf)	Ultimate Skin Friction Uplift Override (ksf)	Ult. Gross Bearing Capacity (ksf)	SPT Blow Count	Soil Type
1	0	5	5	100	150			0.000	0.000	0.00	0.00			Cohesionless
2	5	10	5	60	87.6		35	0.000	0.000	0.00	0.00			Cohesionless
3	10	15	5	55	87.6		33	0.000	0.000	0.00	0.00			Cohesionless
4	15	17	2	80	87.6		40	0.000	0.000	0.00	0.00			Cohesionless
5	17	24	7	95	87.6	20	0	9.000	9.000			80		Cohesive

ASCE 7 Hazards Report

Address:
No Address at This Location

Standard: ASCE/SEI 7-10
Risk Category: II
Soil Class: D - Stiff Soil

Elevation: 166.35 ft (NAVD 88)
Latitude: 41.871139
Longitude: -72.671111



Wind

Results:

Wind Speed:	125 Vmph per the 2018 Connecticut Building Code
10-year MRI	76 Vmph
25-year MRI	86 Vmph
50-year MRI	92 Vmph
100-year MRI	99 Vmph
Data Source:	ASCE/SEI 7-10, Fig. 26.5-1A and Figs. CC-1–CC-4, incorporating errata of March 12, 2014
Date Accessed:	Wed Nov 04 2020

Value provided is 3-second gust wind speeds at 33 ft above ground for Exposure C Category, based on linear interpolation between contours. Wind speeds are interpolated in accordance with the 7-10 Standard. Wind speeds correspond to approximately a 7% probability of exceedance in 50 years (annual exceedance probability = 0.00143, MRI = 700 years).

Site is in a hurricane-prone region as defined in ASCE/SEI 7-10 Section 26.2. Glazed openings need not be protected against wind-borne debris.

Mountainous terrain, gorges, ocean promontories, and special wind regions should be examined for unusual wind conditions.

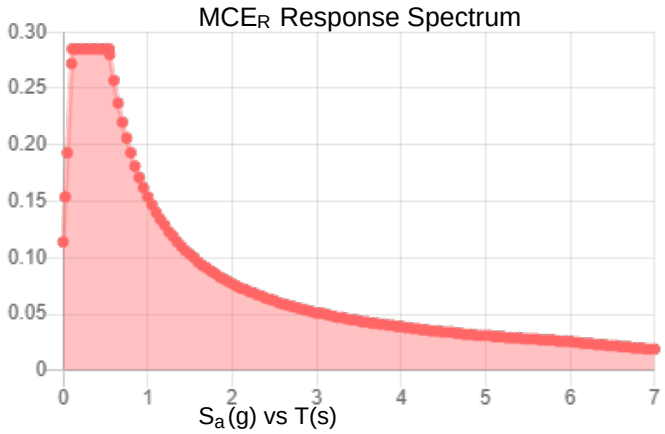
Seismic

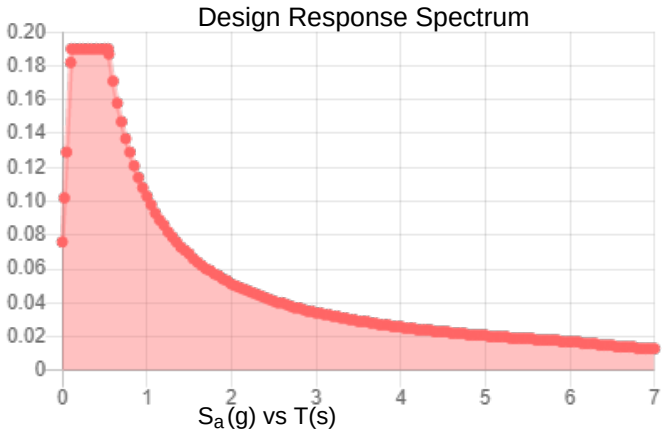
Site Soil Class: D - Stiff Soil

Results:

S_S :	0.178	S_{DS} :	0.19
S_1 :	0.064	S_{D1} :	0.103
F_a :	1.6	T_L :	6
F_v :	2.4	PGA :	0.089
S_{MS} :	0.285	PGA_M :	0.142
S_{M1} :	0.154	F_{PGA} :	1.6
		I_e :	1

Seismic Design Category B





Data Accessed: Wed Nov 04 2020

Date Source: USGS Seismic Design Maps based on ASCE/SEI 7-10, incorporating Supplement 1 and errata of March 31, 2013, and ASCE/SEI 7-10 Table 1.5-2. Additional data for site-specific ground motion procedures in accordance with ASCE/SEI 7-10 Ch. 21 are available from USGS.

Ice

Results:

Ice Thickness:	1.00 in.
Concurrent Temperature:	5 F
Gust Speed:	50 mph
Data Source:	Standard ASCE/SEI 7-10, Figs. 10-2 through 10-8
Date Accessed:	Wed Nov 04 2020

Ice thicknesses on structures in exposed locations at elevations higher than the surrounding terrain and in valleys and gorges may exceed the mapped values.

Values provided are equivalent radial ice thicknesses due to freezing rain with concurrent 3-second gust speeds, for a 50-year mean recurrence interval, and temperatures concurrent with ice thicknesses due to freezing rain. Thicknesses for ice accretions caused by other sources shall be obtained from local meteorological studies. Ice thicknesses in exposed locations at elevations higher than the surrounding terrain and in valleys and gorges may exceed the mapped values.

Exhibit E

Mount Analysis

Date: **November 3, 2020**

Kevin Morrow
Crown Castle
3530 Toringdon Way, Suite 300
Charlotte, NC 28277
(704)-405-6619

POD Group
1033 E Turkeyfoot Lake Rd. Suite 206
Akron, OH 44312
(330) 961.7432
mhoudeshell@podgrp.com

Subject:	**Mount Modification Analysis Report**	
Carrier Designation:	**AT&T**	
	Carrier Site ID:	**14489**
	Carrier Site Name:	**CRTL05139**
	FA Number:	**10071331**
	PACE #:	**MRCTB047595**
Crown Castle Designation:	**Crown Castle BU Number:**	**842875**
	Crown Castle Site Name:	**Windsorday Hill**
	Crown Castle JDE Job Number:	**605393**
	Crown Castle Order Number:	**517092 Rev 0**
Engineering Firm Designation:	**POD Report Designation:**	**20-66002**
Site Data:	**99 Day Hill Road, Windsor, Hartford County, CT 06095** **Latitude 41° 52' 16.10" Longitude -72° 40' 16.00"**	
Structure Information:	**Tower Height & Type:**	**168 ft Monopole**
	Mount Elevation:	**168 ft**
	Mount Type:	**14 ft Platform with Support Rails**

Dear Kevin Morrow,

POD Group is pleased to submit this "Mount Modification Analysis Report" to determine the structural integrity of AT&T's antenna mounting system with the proposed appurtenance and equipment addition on the abovementioned supporting tower structure. Analysis of the existing supporting tower structure is to be completed by others and therefore is not part of this analysis. Analysis of the antenna mounting system as a tie-off point for fall protection or rigging is not part of this document.

The purpose of the analysis is to determine acceptability of the mount stress level. Based on our analysis we have determined the mount stress level to be:

14 ft Platform with Support Rails (Multiple Sectors) **Sufficient**

The analysis has been performed in accordance with the TIA-222-H Standard based upon an ultimate 3-second gust wind speed of 116 mph. Applicable Standard references and design criteria are listed in Section 2 - Analysis Criteria.

Mount structural analysis prepared by: Kevin Garred

Respectfully submitted by:

11/4/20

Jason Cheronis, P.E.
Connecticut PE #: PEN.0032793

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Mount Modification Design Drawings (MDD)

1) INTRODUCTION

This mount is an existing 14 ft platform with support rails. This mount is installed at the 168 ft elevation of the 168 ft monopole.

2) ANALYSIS CRITERIA

TIA-222 Revision:	TIA-222-H
Risk Category:	II
Ultimate Wind Speed:	116 mph
Exposure Category:	C
Topographic Factor at Base:	1.000
Topographic Factor at Mount:	1.000
Ice Thickness:	1.5 in
Wind Speed with Ice:	50 mph
Seismic S_s:	0.179
Seismic S_1:	0.055
Live Loading Wind Speed:	30 mph
Man Live Load at Mid/End-Points:	250 lb
Man Live Load at Mount Pipes:	500 lb

Table 1 - Final Equipment Configuration

Mount Centerline (ft)	Antenna Centerline (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Mount / Modification Details	Note
168	174	1	Telewave	ANT450F6	-	1
	168	2	CCI	DMP65R-BU6D	14' Platform with Support Rails	-
		1	CCI	DMP65R-BU8D		
		1	CCI	TPA-65R-LCUUUU-H8		
		3	Kathrein	800 10121		
		2	Kathrein	80010965		
		1	Kathrein	80010966		
		2	Quintel	QS66512-2		
		3	CCI	DTMABP7819VG12A		
		3	Ericsson	RRUS 32 B30		
		3	Ericsson	RRUS 32 B66		
		3	Ericsson	RRUS 4415 B25		
		3	Ericsson	RRUS 4449 B5/B12		
		3	Ericsson	RRUS 4478 B14		
		6	Kathrein	86010025		
		1	Raycap	DC6-48-60-0-8F		
		2	Raycap	DC6-48-60-18-8F		

Notes:
1) Loading from Town of Windsor, CT not on mount and not considered in this analysis.

3) ANALYSIS PROCEDURE

Table 2 - Documents Provided

Document	Remarks	Reference	Source
Application	-	Crown Castle Order ID: 517092 Rev 0 Dated: 6/17/2020	Crown Castle
Level Drawings	-	Crown Castle Sheet #: A1-168 Dated: 6/18/2020	Crown Castle
RFDS	-	AT&T RFDS Name: CTL05139 Dated: 3/10/2020	Crown Castle
Mount Analysis	-	POD Group POD Job #: 20-65702 Dated: 6/22/2020	POD Group
Mount Modification Design Drawings	-	POD Group POD Job #: 20-66002 Dated: 11/3/2020	POD Group

3.1) Analysis Method

RISA-3D (Version 17.0.4), a commercially available analysis software package, was used to create a three-dimensional model of the antenna mounting system and calculate member stresses for various loading cases. Selected output from the analysis are included in the Appendices.

A tool internally developed, using Microsoft Excel, by POD Group, was used to calculate wind loading on all appurtenances, dishes, and mount members for various load cases. Selected output from the calculations are included in Appendix B.

This analysis was performed in accordance with Crown Castle's ENG-SOW-10208 Tower Mount Analysis (Revision B). In addition, this analysis is in accordance with AT&T's mount technical directive.

3.2) Assumptions

1) The antenna mounting system was properly fabricated, installed, and maintained in good condition in accordance with its original design, TIA Standards, and/or manufacturer's specifications.
2) The configuration of antennas, mounts, and other appurtenances are as specified in Table 1 and the referenced drawings.
3) All member connections are assumed to have been designed to meet or exceed the load carrying capacity of the connected member unless otherwise specified in this report.
4) The weight of the mount was increased 10% in the analysis to account for connections, coax, and jumpers.
5) Member sizes have been assumed from photos of the site and experience with similar mounting systems. If the sizes assumed in this report differ from the actual member sizes, POD Group shall be contacted immediately, and the results of the analysis shall be considered null and void.
6) All structural members shall be verified in accordance with AT&T Mount Technical Directive.
7) The analysis will be required to be revised if the existing conditions in the field differ from those shown in the above-referenced documents or assumed in this analysis. No allowance was made for any damaged, missing, or rusted members.
8) Steel grades have been assumed as follows, unless noted otherwise:
    a. Channel, Angle, Plate — ASTM A36 (GR 36)
    b. Pipe — ASTM A53 (GR 35)
    c. Connection Bolts — ASTM A325

If any of these assumptions are not valid or have been made in error, this analysis may be affected, and POD Group should be allowed to review any new information to determine its effect on the structural integrity of the mount.

4) ANALYSIS RESULTS

Table 3 - Mount Component Stresses vs. Capacity (14' Platform with Support Rails)

Notes	Component	Critical Member	Centerline (ft)	% Capacity	Pass / Fail
	Standoff	SO1A	168	92.6	Pass
	Face	FACE3	168	89.2	Pass
	Mount Pipe	MP GAMMA3	168	50.8	Pass
	Rail	RAIL3	168	43.8	Pass
	Corner	CORNER3	168	36.9	Pass
	Inner Face	INNERFACE3	168	16.6	Pass
	Kicker	KICKER2	168	16.0	Pass
1	Bolts	-	-	33.9	Pass
1	Flange Plate	-	-	4.4	Pass
1	Flange Plate Bolts	-	-	7.6	Pass

Structure Rating (max from all components) =	**92.6%**

Notes:
1) See additional documentation in "Appendix D – Additional Calculations" for calculations supporting the % capacity

4.1) Recommendations

The mount has sufficient capacity to carry the proposed loading configuration. In order for the results of the analysis to be considered valid, the structural modifications listed below must be completed.

1. Replacing kicker arms with longer members
2. Reposition mount pipes to meet 3' separation between LTE antennas.

Engineering detail drawings have been provided in Appendix F – Mount Modification Design Drawings. Connection from the mount to the tower and local stresses on the tower are sufficient.

5) DISCLAIMER OF WARRANTIES

POD Group has not performed a site visit to the structure to verify the member sizes or antenna/coax loading unless noted otherwise. If the existing conditions are not as represented in this report, we should be contacted immediately to evaluate the significance of the discrepancy. This is not a condition assessment of the structure or foundation. This report does not replace a full structure inspection. The structure, foundations, and mounting systems are assumed to have been properly fabricated, erected, maintained, in good condition, twist free, and plumb.

The engineering services rendered by POD Group in connection with this Structural Analysis are limited to a computer analysis of the structure and theoretical capacity of its main structural members. No allowance was made for any damaged, bent, missing, loose, or rusted members (above and below ground). No allowance was made for loose bolts or cracked welds.

POD Group does not analyze the fabrication of the structure (including welding). It is not possible to have all the very detailed information needed to perform a thorough analysis of every structural sub-component and connection of an existing structure. POD Group provides a limited scope of service in that we cannot verify the adequacy of every weld, plate connection detail, etc. The purpose of this report is to assess the feasibility of adding appurtenances usually accompanied by transmission lines to the structure.

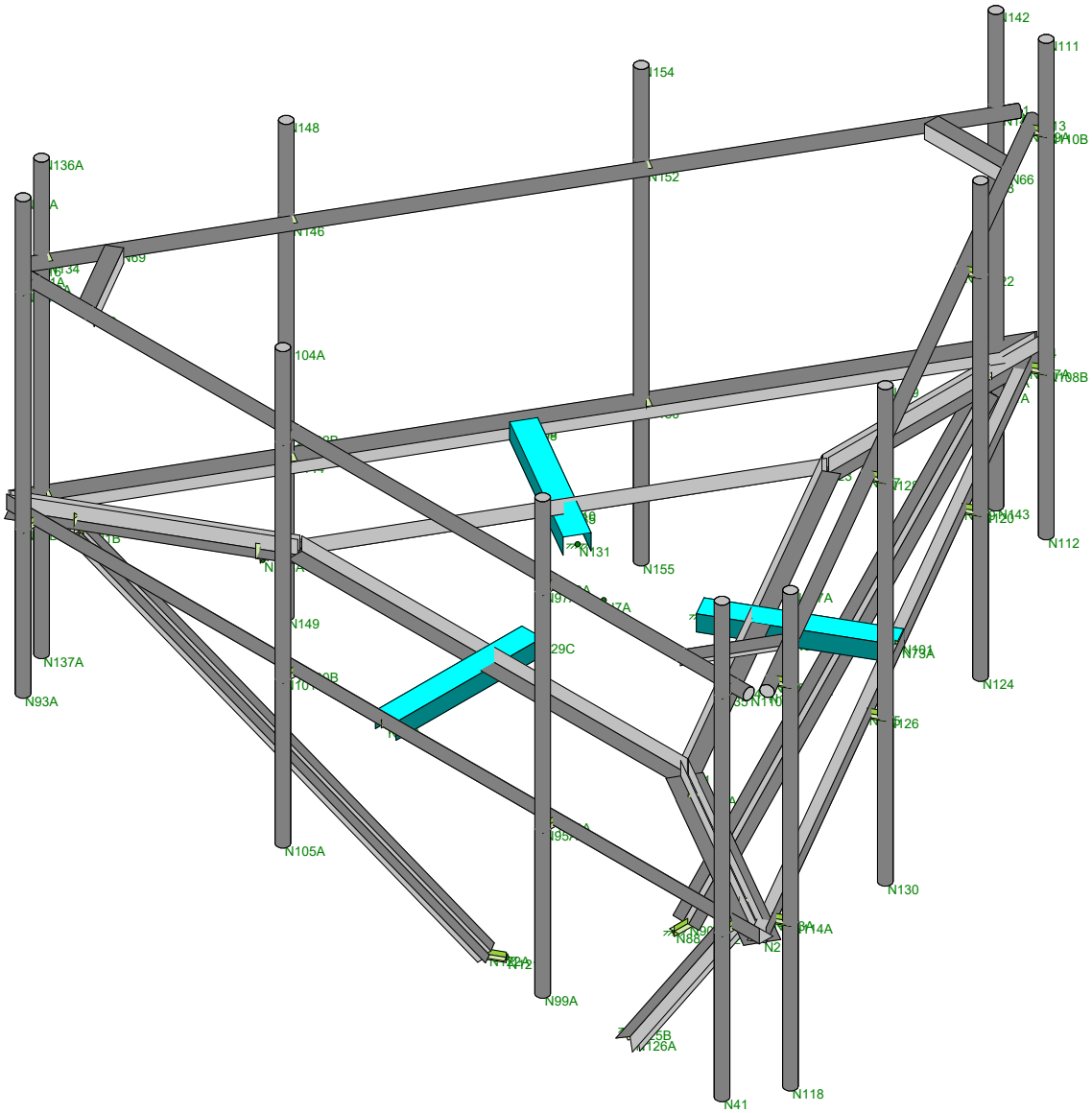
It is the owner's responsibility to determine the amount of ice accumulation in excess of the code specified amount, if any, that should be considered in the structural analysis.

The attached sketches are a schematic representation of the analyzed structure. If any material is fabricated from these sketches, the contractor shall be responsible for field verifying the existing conditions, proper fit, and clearance in the field. Any mentions of structural modifications are reasonable estimates and should not be used as a precise construction document. Precise modification drawings are obtainable from POD Group, but are beyond the scope of this report.

POD Group makes no warranties, expressed and/or implied, in connection with this report and disclaims any liability arising from material, fabrication, and erection of this structure. POD Group will not be responsible whatsoever, for or on account of, consequential or incidental damages sustained by any person, firm, or organization as a result of any data or conclusions contained in this report. The maximum liability of POD Group pursuant to this report will be limited to the total fee received for preparation of this report.

APPENDIX A

Wire Frame and Rendered Models



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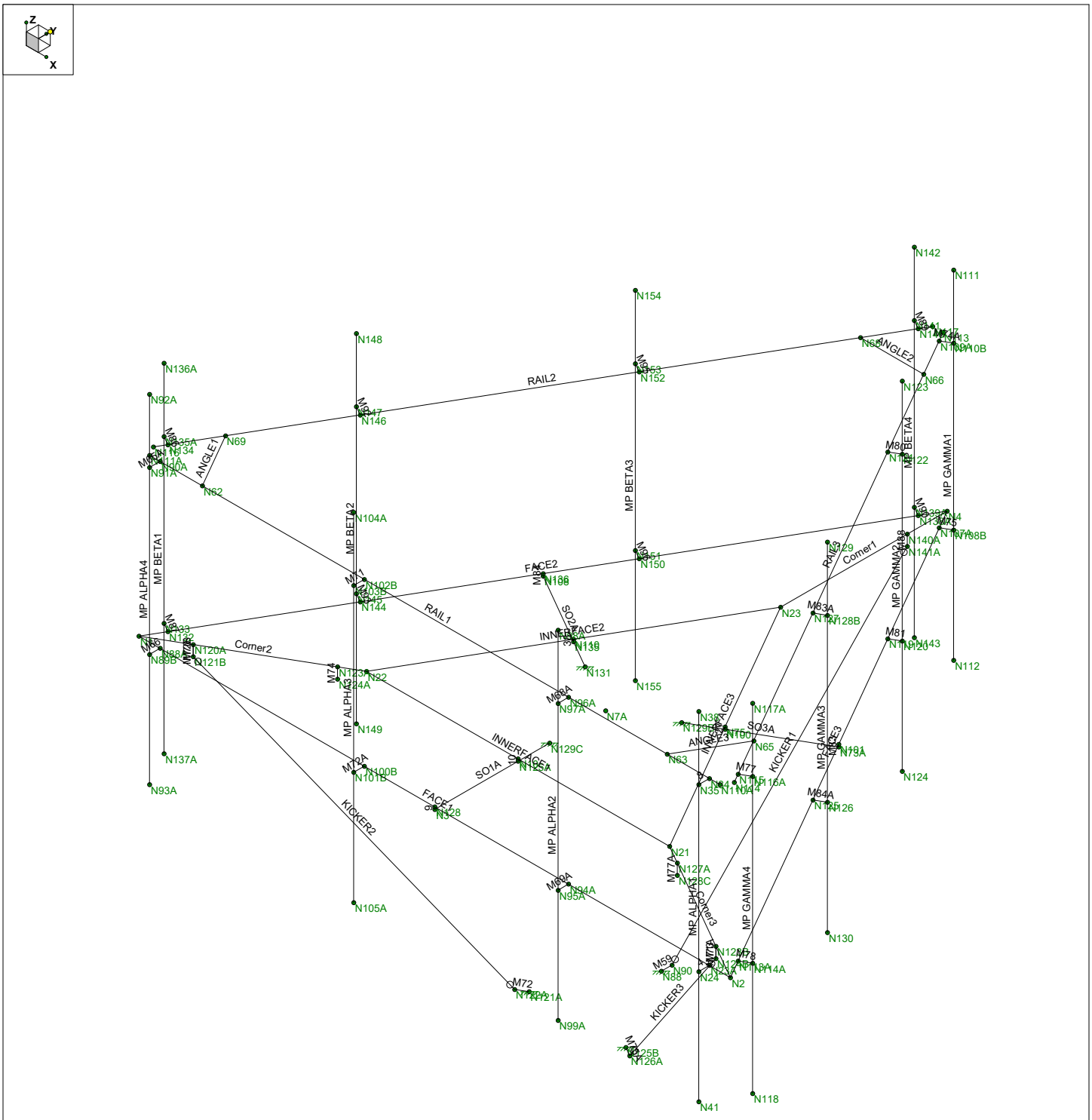
KG		Nov 3, 2020 at 5:19 PM
20-66002		842875.r3d



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KG		Nov 3, 2020 at 5:20 PM
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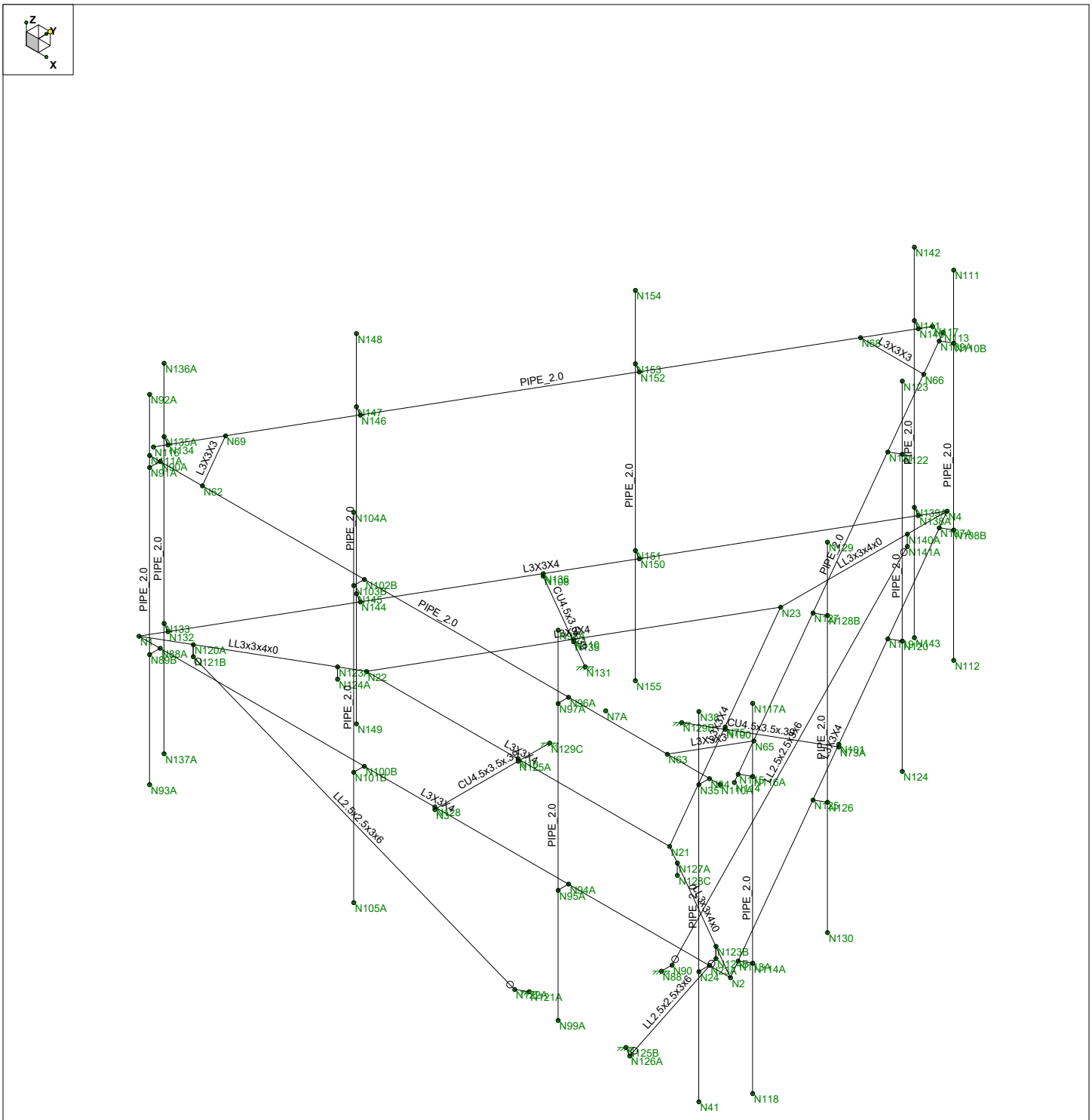

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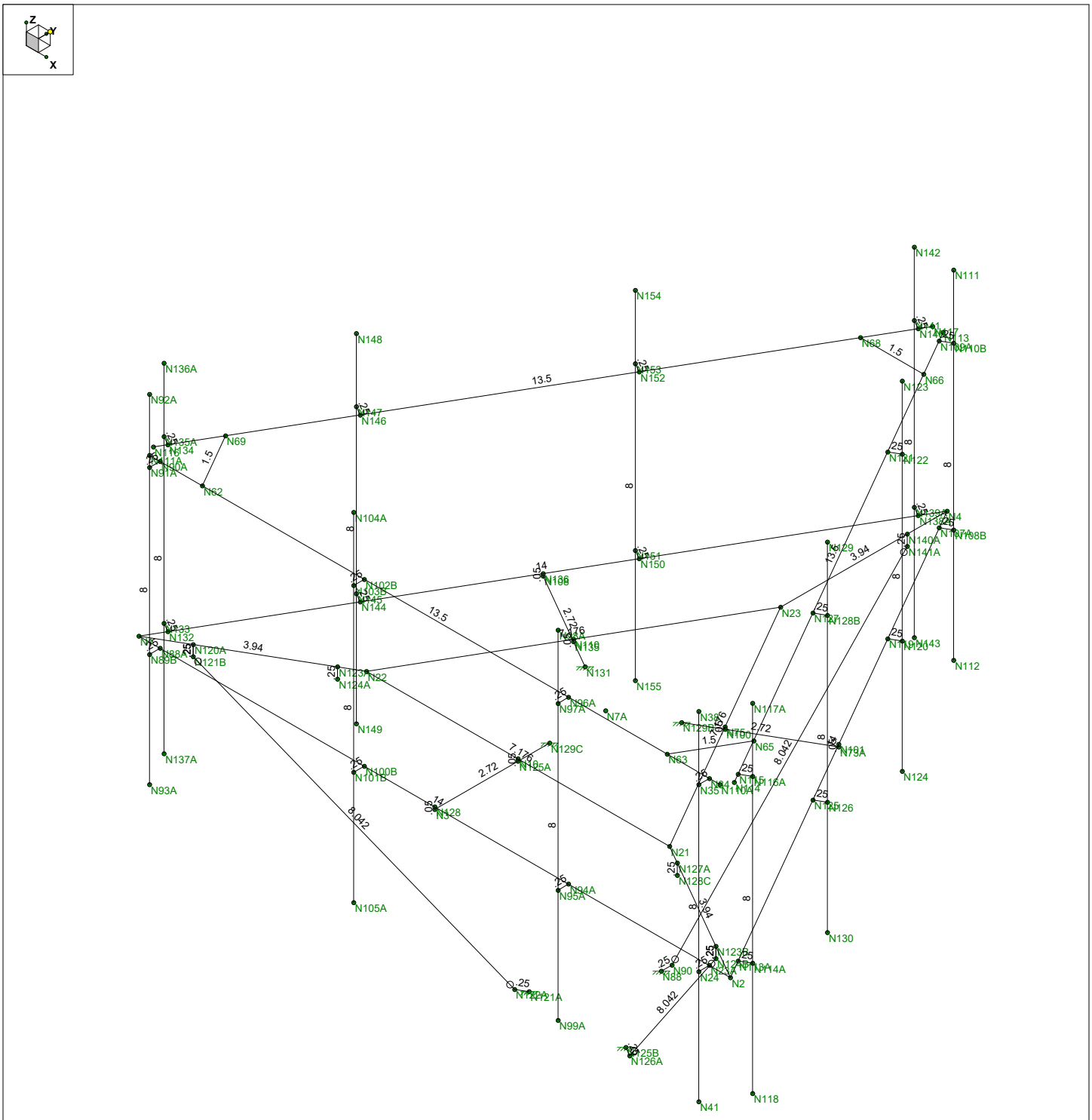

Member Length (ft) Displayed

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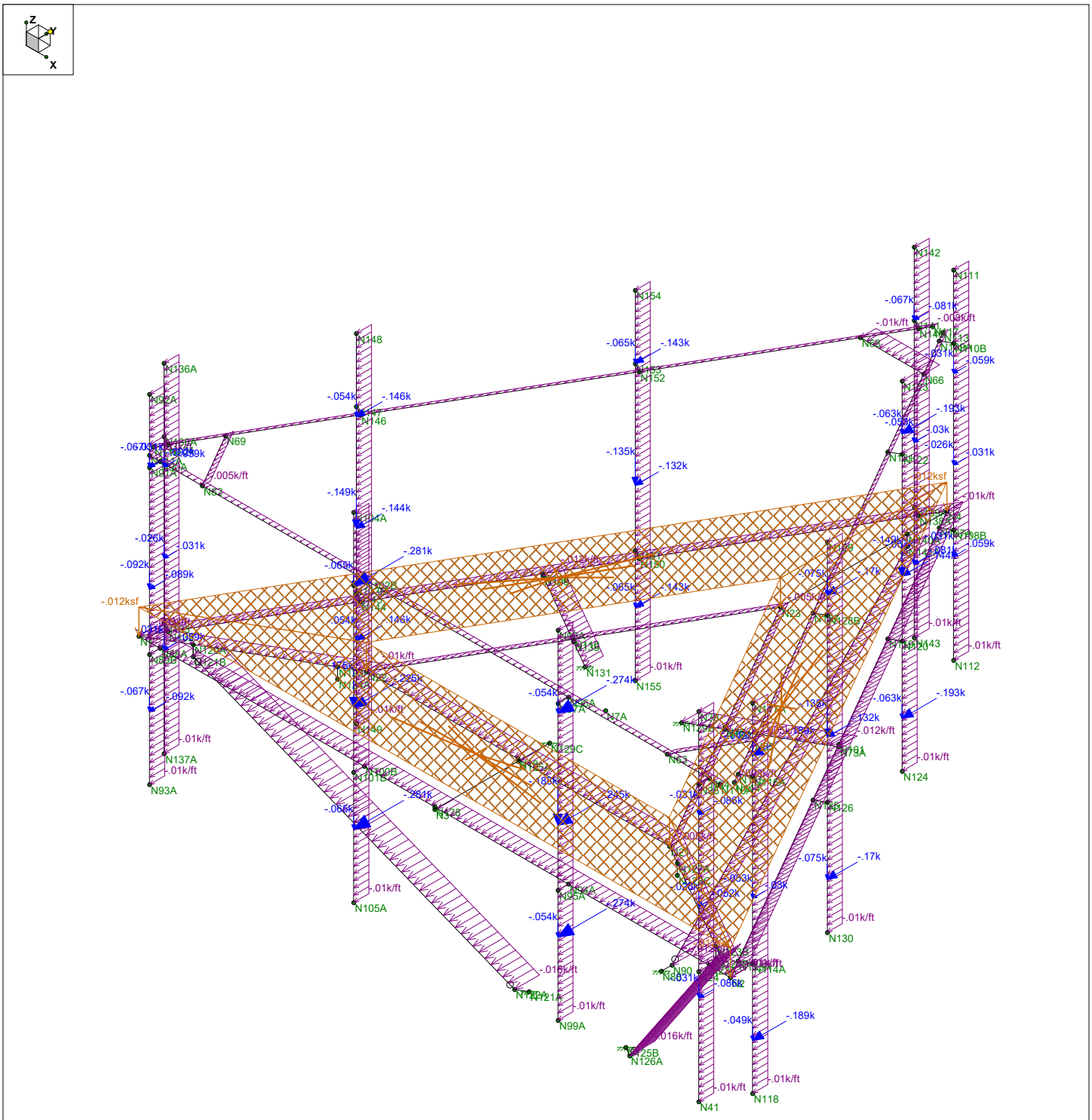


Loads: LC 2, 1.2D + 1.0W(0)

POD	842875	SK - 5
KG		Nov 3, 2020 at 5:20 PM
20-66002		842875.r3d

APPENDIX B

Software Input Calculations

POWER OF DESIGN

POD Job #	**20-66002**
Site Number	**842875**
Site Name	**Windsorday Hill**

General Site Information

Mount Type	SFP	Risk Category	II	I (seismic)	1		
V (Wind Speed)	116	I(ice)	1	Sms	0.286		
Z_s	172			Sm1	0.132		
tI	1.5	Ss	0.179	Sds	0.191		
Vi	50	S1	0.055	Sd1	0.088		
Kzt	1	Soil Site Class	D (assumed)	Seismic Design Category	B		
Exposure	C	Fa	1.600				
zg	900	Fv	2.400	Seismic Analysis Not Required			
α	9.5			R	2	TIA-222-H	16.7
Kmin	0.85	Tower Type	Monopole	As	1	TIA-222-H	16.7
G_H	1	Tower Height	168	Cs, Min	0.03	TIA-222-H	2.7.7.1.1
Ke	0.99			Cs	0.095466667	TIA-222-H	2.7.7.1.1
K_D	0.95						
K_a	0.9						

Appurtenance Information

Model	Shielded	% Shielded	Centerline	Centerline on MP	Spacing (in)	Azimuth	Sector	Quantity		MP #
DMP65R-BU6D	No		168	4	55		A/B	1	2	
DMP65R-BU8D	No		168	4	70		C	1	2	
TPA-65R-LCUUUU-H8	No		168	4	70		C	1	4	
800 10121	No		168	4	45		A/B/C	1	1	
80010965	No		168	4	60		A/B	1	3	
80010966	No		168	4	70		C	1	3	
QS66512-2	No		168	4	60		A/B	1	4	
DTMABP7819VG12A	No		168	4			A/B/C	1	1	
RRUS 32 B30	No		168	4			A/B/C	1	2	
RRUS 32 B66	No		168	4			A/B/C	1	3	
RRUS 4415 B25	No		168	4			A/B/C	1	4	
RRUS 4449 B5/B12	No		168	4			A/B/C	1	2	
RRUS 4478 B14	No		168	4			A/B/C	1	3	
860 10025	No		168	4			A/B/C	2	1	
DC6-48-60-0-8F	No		168	4			A	1	3	
DC6-48-60-18-8F	No		168	4			A	1	2	4

Mount Information

Elevation (ft)	168	Grating Thickness (in)	1
K_z	1.41	Grating Ice Weight (k/ft²)	0.020
Kiz	1.18		
tiz	1.77		

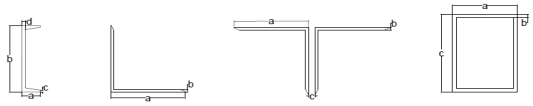
	Length (ft)	Width (in)	Centerline
Mount Pipes	8	2.375	168

Round Members

Member	Length (ft)	Width (in)	Frame Member	# of Members
Rail On	13.5	2.375	Yes	2
Rail Off	13.5	2.375	No	1
Brace	6.5	2.375	Yes	3

Flat Members

Member	Length (ft)	Width (in)	Shape	A	B	C	D	Frame Member	# of Members
Face On	14	3	Angle		3	0.25		Yes	2
Face Off	14	3	Angle		3	0.25		No	1
Corner	4	3	D. Angle		3	0.25	0	No	3
Inner Face	7.176	3	Angle		3	0.25		No	3
Standoff	2	4	Channel		5.5	4	0.39	0.39	No	6
Kicker	5.3	2.5	D. Angle		2.5	0.1875	0.25		Yes	3
Angle	1.5	3	Angle		3	0.1875			No	3



Version 3.2

Appurtenance Wind Calculations

Model	Height	Width	Depth	Weight (lbs)	Kz	qz (lb/ft$_2$)	$(EPA)_n$ (ft^2)	$(EPA)_t$(ft^2)	Wind Force (Kips) Front	Side	Alpha	Beta	Gamma
DMP65R-BU6D	71.2	20.7	7.7	89.3	1.41	45.91	11.93	4.48	0.548	0.205	0.462	0.462	0.205
DMP65R-BU8D	96.0	20.7	7.7	105.6	1.41	45.91	15.86	5.95	0.728	0.273	0.614	0.614	0.273
TPA-65R-LCUUUU-H8	96.0	14.4	8.6	81.6	1.41	45.91	11.87	7.02	0.545	0.322	0.489	0.489	0.322
800 10121	54.5	10.3	5.9	51.2	1.41	45.91	3.74	2.17	0.172	0.099	0.154	0.154	0.099
80010965	78.7	20.0	6.9	108.6	1.41	45.91	12.23	4.21	0.562	0.193	0.470	0.470	0.193
80010966	96.0	20.0	6.9	125.7	1.41	45.91	14.59	5.04	0.670	0.231	0.560	0.560	0.231
QS66512-2	72.0	12.0	9.6	111.0	1.41	45.91	4.01	3.37	0.184	0.155	0.177	0.177	0.155
DTMABP7819VG12A	10.6	11.0	3.8	19.2	1.41	45.91	0.88	0.30	0.040	0.014	0.034	0.034	0.014
RRUS 32 B30	27.2	12.1	7.0	53.0	1.41	45.91	2.47	1.50	0.113	0.069	0.102	0.102	0.069
RRUS 32 B66	27.2	12.1	7.0	53.0	1.41	45.91	2.47	1.50	0.113	0.069	0.102	0.102	0.069

Appurtenance Ice Calculations

Model	tiz (in)	Height	Width	Depth	Weight (lbs)	Kiz	qz (lb/ft$_2$)	$(EPA)_n$ (ft^2)	$(EPA)_t$(ft^2)	Wind Force (Kips) Front	Side	Alpha	Beta	Gamma
DMP65R-BU6D	1.77	74.73	24.23	11.23	291.22	1.18	8.53	13.19	6.15	0.113	0.052	0.098	0.098	0.052
DMP65R-BU8D	1.77	99.53	24.23	11.23	381.82	1.18	8.53	17.33	8.08	0.148	0.069	0.128	0.128	0.069
TPA-65R-LCUUUU-H8	1.77	99.53	17.93	12.13	316.26	1.18	8.53	13.75	9.22	0.117	0.079	0.108	0.108	0.079
800 10121	1.77	58.03	13.83	9.43	137.94	1.18	8.53	4.81	3.31	0.041	0.028	0.038	0.038	0.028
80010965	1.77	82.23	23.53	10.43	302.06	1.18	8.53	13.53	5.99	0.115	0.051	0.099	0.099	0.051
80010966	1.77	99.53	23.53	10.43	362.29	1.18	8.53	15.96	7.05	0.136	0.060	0.117	0.117	0.060
QS66512-2	1.77	75.53	15.53	13.13	230.33	1.18	8.53	4.91	4.30	0.042	0.037	0.041	0.041	0.037
DTMABP7819VG12A	1.77	14.16	14.55	7.31	34.46	1.18	8.53	0.90	0.46	0.008	0.004	0.007	0.007	0.004
RRUS 32 B30	1.77	30.73	15.63	10.53	89.25	1.18	8.53	2.10	1.44	0.018	0.012	0.017	0.017	0.012
RRUS 32 B66	1.77	30.73	15.63	10.53	89.25	1.18	8.53	2.10	1.44	0.018	0.012	0.017	0.017	0.012
RRUS 4415 B25	1.77	18.49	16.72	8.92	54.90	1.18	8.53	1.95	1.67	0.017	0.014	0.016	0.016	0.014
RRUS 4449 B5/B12	1.77	21.43	16.72	12.97	78.38	1.18	8.53	1.57	1.22	0.013	0.010	0.013	0.013	0.010
RRUS 4478 B14	1.77	20.03	16.93	11.23	68.25	1.18	8.53	1.49	0.99	0.013	0.008	0.012	0.012	0.008
860 10025	1.77	10.53	5.83	5.43	9.81	1.18	8.53	0.27	0.25	0.002	0.002	0.002	0.002	0.002
DC6-48-60-0-8F	1.77	25.78	14.53	14.53	89.14	1.18	8.53	1.64	1.64	0.014	0.014	0.014	0.014	0.014
DC6-48-60-18-8F	1.77	34.78	14.53	14.53	115.43	1.18	8.53	2.21	2.21	0.019	0.019	0.019	0.019	0.019

Round Members

Member	Wind Calculations q_z (lb/ft^2)	Ar	C	Rr	Cf	EPA (ft^2)	Load (k/ft)	Ice Calculations Width (in)	Weight (k/ft)	q_z (lb/ft^2)	Arice	Rrice	Cf	EPA (ft^2)	Load (k/ft)
Rail On	45.91	5.34	26.59	0.57	1.20	1.64	0.006	5.91	0.01	8.53	13.29	0.62	1.20	4.47	0.003
Rail Off	45.91	2.67	26.59	0.57	1.20	1.64	0.003	5.91	0.01	8.53	6.64	0.62	1.20	4.47	0.001
Brace	45.91	3.86	26.59	0.57	1.20	0.79	0.006	5.91	0.01	8.53	9.60	0.62	1.20	2.15	0.003

Flat Members

Member	Wind Calculations q_z (lb/ft^2)	Af	Cf	EPA	Load (k/ft)	Ice Calculations Width (in)	Weight (k/ft)	q_z (lb/ft^2)	Arice	Rrice	Cf	EPA	Load (k/ft)
Face On	45.91	7.00	2.00	6.30	0.021	6.53	0.01	8.53	15.24	0.62	2.00	8.54	0.005
Face Off	45.91	3.50	2.00	6.30	0.010	6.53	0.01	8.53	7.62	0.62	2.00	8.54	0.003
Corner	45.91	3.00	2.00	1.80	0.010	6.53	0.02	8.53	6.53	0.62	2.00	2.44	0.003
Inner Face	45.91	5.38	2.00	3.23	0.010	6.53	0.01	8.53	11.72	0.62	2.00	4.38	0.003
Standoff	45.91	4.00	2.00	1.20	0.014	7.53	0.03	8.53	7.53	0.62	2.00	1.41	0.003
Kicker	45.91	3.31	2.00	1.99	0.017	6.03	0.02	8.53	7.99	0.62	2.00	2.98	0.005
Angle	45.91	1.13	2.00	0.68	0.010	6.53	0.01	8.53	2.45	0.62	2.00	0.91	0.003

Appurtenance Seismic Calculations

Model	Weight	Sds	ρ	Cs	As	Ev	Eh
DMP65R-BU6D	89.3	0.191	1.000	0.095	1.000	0.003	0.009
DMP65R-BU8D	105.6	0.191	1.000	0.095	1.000	0.004	0.010
TPA-65R-LCUUUU-H8	81.6	0.191	1.000	0.095	1.000	0.003	0.008
800 10121	51.2	0.191	1.000	0.095	1.000	0.002	0.005
80010965	108.6	0.191	1.000	0.095	1.000	0.004	0.010
80010966	125.7	0.191	1.000	0.095	1.000	0.005	0.012
QS66512-2	111.0	0.191	1.000	0.095	1.000	0.004	0.011
DTMABP7819VG12A	19.2	0.191	1.000	0.095	1.000	0.001	0.002
RRUS 32 B30	53.0	0.191	1.000	0.095	1.000	0.002	0.005
RRUS 32 B66	53.0	0.191	1.000	0.095	1.000	0.002	0.005
RRUS 4415 B25	44.0	0.191	1.000	0.095	1.000	0.002	0.004
RRUS 4449 B5/B12	71.0	0.191	1.000	0.095	1.000	0.003	0.007
RRUS 4478 B14	59.9	0.191	1.000	0.095	1.000	0.002	0.006
860 10025	1.2	0.191	1.000	0.095	1.000	0.000	0.000
DC6-48-60-0-8F	32.8	0.191	1.000	0.095	1.000	0.001	0.003
DC6-48-60-18-8F	32.8	0.191	1.000	0.095	1.000	0.001	0.003

Version 3.2

APPENDIX C

Software Analysis Output

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate...	Section/Shape	Type	Design List	Material	Design ...
1	SO3A	N73A	N129B		360	CU4.5x3.5x.39	Beam	CU	A653 SS Gr33	Typical
2	SO2A	N108	N131		180	CU4.5x3.5x.39	Beam	CU	A653 SS Gr33	Typical
3	SO1A	N3	N129C		180	CU4.5x3.5x.39	Beam	CU	A653 SS Gr33	Typical
4	RAIL3	N114	N113		360	PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
5	RAIL2	N117	N116		360	PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
6	RAIL1	N111A	N110A		360	PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
7	MP GAMMA4	N118	N117A			PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
8	MP GAMMA3	N130	N129			PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
9	MP GAMMA2	N124	N123			PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
10	MP GAMMA1	N112	N111			PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
11	MP BETA4	N143	N142			PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
12	MP BETA3	N155	N154			PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
13	MP BETA2	N149	N148			PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
14	MP BETA1	N137A	N136A			PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
15	MP ALPHA4	N93A	N92A			PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
16	MP ALPHA3	N105A	N104A			PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
17	MP ALPHA2	N99A	N98A			PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
18	MP ALPHA1	N41	N38			PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
19	M96	N150	N151		360	RIGID	None	None	RIGID	Typical
20	M95	N152	N153		360	RIGID	None	None	RIGID	Typical
21	M93	N144	N145		360	RIGID	None	None	RIGID	Typical
22	M92	N146	N147		360	RIGID	None	None	RIGID	Typical
23	M90	N138A	N139A		360	RIGID	None	None	RIGID	Typical
24	M89	N140	N141		360	RIGID	None	None	RIGID	Typical
25	M88	N141A	N140A			RIGID	None	None	RIGID	Typical
26	M87	N132	N133		360	RIGID	None	None	RIGID	Typical
27	M86	N134	N135A		360	RIGID	None	None	RIGID	Typical
28	M84A	N125	N126		360	RIGID	None	None	RIGID	Typical
29	M84	N136	N108		360	RIGID	None	None	RIGID	Typical
30	M83A	N127	N128B		360	RIGID	None	None	RIGID	Typical
31	M83	N101	N73A		360	RIGID	None	None	RIGID	Typical
32	M81	N119	N120		360	RIGID	None	None	RIGID	Typical
33	M80	N121	N122		360	RIGID	None	None	RIGID	Typical
34	M78	N113A	N114A		360	RIGID	None	None	RIGID	Typical
35	M77A	N128C	N127A		240	RIGID	None	None	RIGID	Typical
36	M77	N115	N116A		360	RIGID	None	None	RIGID	Typical
37	M75A	N125B	N126A		360	RIGID	None	None	RIGID	Typical
38	M75	N107A	N108B		360	RIGID	None	None	RIGID	Typical
39	M74A	N109A	N110B		360	RIGID	None	None	RIGID	Typical
40	M74	N124A	N123A		120	RIGID	None	None	RIGID	Typical
41	M72A	N100B	N101B		360	RIGID	None	None	RIGID	Typical
42	M72	N121A	N122A		180	RIGID	None	None	RIGID	Typical
43	M71	N102B	N103B		360	RIGID	None	None	RIGID	Typical
44	M69A	N94A	N95A		360	RIGID	None	None	RIGID	Typical
45	M68A	N96A	N97A		360	RIGID	None	None	RIGID	Typical
46	M66	N88A	N89B		360	RIGID	None	None	RIGID	Typical
47	M65A	N90A	N91A		360	RIGID	None	None	RIGID	Typical
48	M59	N88	N90		360	RIGID	None	None	RIGID	Typical
49	KICKER3	N126A	N124B		65.709	LL2.5x2.5x3x6	Beam	Double Angle (...	A36 Gr.36	Typical
50	KICKER2	N122A	N121B		294.291	LL2.5x2.5x3x6	Beam	Double Angle (...	A36 Gr.36	Typical
51	KICKER1	N90	N141A		180	LL2.5x2.5x3x6	Beam	Double Angle (...	A36 Gr.36	Typical
52	INNERFACE3	N21	N23		270	L3X3X4	Beam	Single Angle	A36 Gr.36	Typical
53	INNERFACE2	N23	N22		270	L3X3X4	Beam	Single Angle	A36 Gr.36	Typical
54	INNERFACE1	N22	N21		90	L3X3X4	Beam	Single Angle	A36 Gr.36	Typical
55	FACE3	N2	N4		180	L3X3X4	Beam	Single Angle	A36 Gr.36	Typical
56	FACE2	N4	N1		180	L3X3X4	Beam	Single Angle	A36 Gr.36	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate...	Section/Shape	Type	Design List	Material	Design ...
57	FACE1	N1	N2		360	L3X3X4	Beam	Single Angle	A36 Gr.36	Typical
58	Corner3	N2	N21		90	LL3x3x4x0	Beam	Double Angle (...	A36 Gr.36	Typical
59	Corner2	N1	N22		270	LL3x3x4x0	Beam	Double Angle (...	A36 Gr.36	Typical
60	Corner1	N4	N23		90	LL3x3x4x0	Beam	Double Angle (...	A36 Gr.36	Typical
61	ANGLE3	N65	N63		90	L3X3X3	Beam	Single Angle	A36 Gr.36	Typical
62	ANGLE2	N68	N66		270	L3X3X3	Beam	Single Angle	A36 Gr.36	Typical
63	ANGLE1	N62	N69		90	L3X3X3	Beam	Single Angle	A36 Gr.36	Typical
64	38	N110	N135		360	RIGID	None	None	RIGID	Typical
65	27	N75	N100		360	RIGID	None	None	RIGID	Typical
66	10	N10	N125A		360	RIGID	None	None	RIGID	Typical
67	9	N128	N3		360	RIGID	None	None	RIGID	Typical
68	8	N34	N35		360	RIGID	None	None	RIGID	Typical
69	4	N23A	N24		360	RIGID	None	None	RIGID	Typical
70	M70	N121B	N120A			RIGID	None	None	RIGID	Typical
71	M71A	N124B	N123B			RIGID	None	None	RIGID	Typical
72	M72B	N121B	N120A			RIGID	None	None	RIGID	Typical
73	M73	N124B	N123B			RIGID	None	None	RIGID	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	SO3A						Yes				None
2	SO2A						Yes				None
3	SO1A						Yes				None
4	RAIL3						Yes				None
5	RAIL2						Yes				None
6	RAIL1						Yes				None
7	MP GAMM...						Yes				None
8	MP GAMM...						Yes				None
9	MP GAMM...						Yes				None
10	MP GAMM...						Yes				None
11	MP BETA4						Yes				None
12	MP BETA3						Yes				None
13	MP BETA2						Yes				None
14	MP BETA1						Yes				None
15	MP ALPHA4						Yes				None
16	MP ALPHA3						Yes				None
17	MP ALPHA2						Yes				None
18	MP ALPHA1						Yes	Default			None
19	M96						Yes	** NA **			None
20	M95						Yes	** NA **			None
21	M93						Yes	** NA **			None
22	M92						Yes	** NA **			None
23	M90						Yes	** NA **			None
24	M89						Yes	** NA **			None
25	M88						Yes	** NA **			None
26	M87						Yes	** NA **			None
27	M86						Yes	** NA **			None
28	M84A						Yes	** NA **			None
29	M84						Yes	** NA **			None
30	M83A						Yes	** NA **			None
31	M83						Yes	** NA **			None
32	M81						Yes	** NA **			None
33	M80						Yes	** NA **			None
34	M78						Yes	** NA **			None
35	M77A						Yes	** NA **			None

Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
36	M77						Yes	** NA **			None
37	M75A						Yes	** NA **			None
38	M75						Yes	** NA **			None
39	M74A						Yes	** NA **			None
40	M74						Yes	** NA **			None
41	M72A						Yes	** NA **			None
42	M72						Yes	** NA **			None
43	M71						Yes	** NA **			None
44	M69A						Yes	** NA **			None
45	M68A						Yes	** NA **			None
46	M66						Yes	** NA **			None
47	M65A						Yes	** NA **			None
48	M59						Yes	** NA **			None
49	KICKER3	OOOOXO	OOOOXO				Yes	Default			None
50	KICKER2	OOOOXO	OOOOXO				Yes	Default			None
51	KICKER1	OOOOXO	OOOOXO				Yes	Default			None
52	INNERFAC...						Yes				None
53	INNERFAC...						Yes				None
54	INNERFAC...						Yes				None
55	FACE3						Yes				None
56	FACE2						Yes				None
57	FACE1						Yes	Default			None
58	Corner3						Yes				None
59	Corner2						Yes				None
60	Corner1						Yes				None
61	ANGLE3						Yes				None
62	ANGLE2						Yes				None
63	ANGLE1						Yes				None
64	38						Yes	** NA **			None
65	27						Yes	** NA **			None
66	10						Yes	** NA **			None
67	9						Yes	** NA **			None
68	8						Yes	** NA **			None
69	4						Yes	** NA **			None
70	M70						Yes	** NA **			None
71	M71A						Yes	** NA **			None
72	M72B						Yes	** NA **			None
73	M73						Yes	** NA **			None

Hot Rolled Steel Design Parameters

	Label	Shape	Lengt...	Lbyy[ft]	Lbzz[ft]	Lcomp t...	Lcomp b...	L-tor...	Kyy	Kzz	Cb	Func...
1	RAIL3	PIPE_2.0	13.5			Lbyy						Late...
2	RAIL2	PIPE_2.0	13.5			Lbyy						Late...
3	RAIL1	PIPE_2.0	13.5			Lbyy						Late...
4	MP GAM...	PIPE_2.0	8			Lbyy						Late...
5	MP GAM...	PIPE_2.0	8			Lbyy						Late...
6	MP GAM...	PIPE_2.0	8			Lbyy						Late...
7	MP GAM...	PIPE_2.0	8			Lbyy						Late...
8	MP BET...	PIPE_2.0	8			Lbyy						Late...
9	MP BET...	PIPE_2.0	8			Lbyy						Late...
10	MP BET...	PIPE_2.0	8			Lbyy						Late...
11	MP BET...	PIPE_2.0	8			Lbyy						Late...
12	MP ALP...	PIPE_2.0	8			Lbyy						Late...
13	MP ALP...	PIPE_2.0	8			Lbyy						Late...
14	MP ALP...	PIPE_2.0	8			Lbyy						Late...

Hot Rolled Steel Design Parameters (Continued)

	Label	Shape	Lengt...	Lbyy[ft]	Lbzz[ft]	Lcomp t...	Lcomp b...	L-tor...	Kyy	Kzz	Cb	Func...
15	MP ALP...	PIPE 2.0	8			Lbyy						Late...
16	KICKER3	LL2.5x2.5x3x6	8.042			Lbyy						Late...
17	KICKER2	LL2.5x2.5x3x6	8.042			Lbyy						Late...
18	KICKER1	LL2.5x2.5x3x6	8.042			Lbyy						Late...
19	INNERF...	L3X3X4	7.176	3.585		Lbyy						Late...
20	INNERF...	L3X3X4	7.176	3.585		Lbyy						Late...
21	INNERF...	L3X3X4	7.176	3.585		Lbyy						Late...
22	FACE3	L3X3X4	14		7	Lbyy						Late...
23	FACE2	L3X3X4	14		7	Lbyy						Late...
24	FACE1	L3X3X4	14		7	Lbyy						Late...
25	Corner3	LL3x3x4x0	3.94			Lbyy						Late...
26	Corner2	LL3x3x4x0	3.94			Lbyy						Late...
27	Corner1	LL3x3x4x0	3.94			Lbyy						Late...
28	ANGLE3	L3X3X3	1.5			Lbyy						Late...
29	ANGLE2	L3X3X3	1.5			Lbyy						Late...
30	ANGLE1	L3X3X3	1.5			Lbyy						Late...

Cold Formed Steel Design Parameters

	Label	Shape	Length...	Lbyy[ft]	Lbzz[ft]	Lcomp to...	Lcomp bo...	L-torque[ft]	Kyy	Kzz	Cb	R	a[ft]	Funct...
1	SO3A	CU4.5x3....	2.72		1.97	Lbyy								Lateral
2	SO2A	CU4.5x3....	2.72		1.97	Lbyy								Lateral
3	SO1A	CU4.5x3....	2.72		1.97	Lbyy								Lateral

Hot Rolled Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm (/1...	Density[k/ft^3]	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

Cold Formed Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm (/1E5 F)	Density[k/ft^3]	Yield[ksi]	Fu[ksi]
1	A653 SS Gr33	29500	11346	.3	.65	.49	33	45
2	A653 SS Gr50/1	29500	11346	.3	.65	.49	50	65

Member Point Loads (BLC 1 : Live Load)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	FACE1	Z	-.5	0

Member Point Loads (BLC 2 : Wind Load (0))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	-.274	6.292
2	MP ALPHA2	Y	-.274	1.708
3	MP BETA2	Y	-.146	6.292
4	MP BETA2	Y	-.146	1.708
5	MP GAMMA2	Y	-.193	6.917
6	MP GAMMA2	Y	-.193	1.083

Member Point Loads (BLC 2 : Wind Load (0)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
7	MP GAMMA4	Y	-.189	6.917
8	MP GAMMA4	Y	-.189	1.083
9	MP ALPHA1	Y	-.086	5.875
10	MP ALPHA1	Y	-.086	2.125
11	MP BETA1	Y	-.059	5.875
12	MP BETA1	Y	-.059	2.125
13	MP GAMMA1	Y	-.059	5.875
14	MP GAMMA1	Y	-.059	2.125
15	MP ALPHA3	Y	-.281	6.5
16	MP ALPHA3	Y	-.281	1.5
17	MP BETA3	Y	-.143	6.5
18	MP BETA3	Y	-.143	1.5
19	MP GAMMA3	Y	-.17	6.917
20	MP GAMMA3	Y	-.17	1.083
21	MP ALPHA4	Y	-.092	6.5
22	MP ALPHA4	Y	-.092	1.5
23	MP BETA4	Y	-.081	6.5
24	MP BETA4	Y	-.081	1.5
25	MP ALPHA1	Y	-.04	4
26	MP BETA1	Y	-.021	4
27	MP GAMMA1	Y	-.021	4
28	MP ALPHA2	Y	-.113	4
29	MP BETA2	Y	-.08	4
30	MP GAMMA2	Y	-.08	4
31	MP ALPHA3	Y	-.113	4
32	MP BETA3	Y	-.08	4
33	MP GAMMA3	Y	-.08	4
34	MP ALPHA4	Y	-.039	4
35	MP BETA4	Y	-.03	4
36	MP GAMMA4	Y	-.03	4
37	MP ALPHA2	Y	-.081	4
38	MP BETA2	Y	-.064	4
39	MP GAMMA2	Y	-.064	4
40	MP ALPHA3	Y	-.076	4
41	MP BETA3	Y	-.052	4
42	MP GAMMA3	Y	-.052	4
43	MP ALPHA1	Y	-.011	4
44	MP BETA1	Y	-.01	4
45	MP GAMMA1	Y	-.01	4
46	MP ALPHA3	Y	-.035	4
47	MP ALPHA2	Y	-.05	4
48	MP ALPHA4	Y	-.05	4

Member Point Loads (BLC 3 : Dead Load)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Z	-.045	6.292
2	MP ALPHA2	Z	-.045	1.708
3	MP BETA2	Z	-.045	6.292
4	MP BETA2	Z	-.045	1.708
5	MP GAMMA2	Z	-.053	6.917
6	MP GAMMA2	Z	-.053	1.083
7	MP GAMMA4	Z	-.041	6.917
8	MP GAMMA4	Z	-.041	1.083
9	MP ALPHA1	Z	-.026	5.875
10	MP ALPHA1	Z	-.026	2.125
11	MP BETA1	Z	-.026	5.875

Member Point Loads (BLC 3 : Dead Load) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
12	MP BETA1	Z	-.026	2.125
13	MP GAMMA1	Z	-.026	5.875
14	MP GAMMA1	Z	-.026	2.125
15	MP ALPHA3	Z	-.054	6.5
16	MP ALPHA3	Z	-.054	1.5
17	MP BETA3	Z	-.054	6.5
18	MP BETA3	Z	-.054	1.5
19	MP GAMMA3	Z	-.063	6.917
20	MP GAMMA3	Z	-.063	1.083
21	MP ALPHA4	Z	-.056	6.5
22	MP ALPHA4	Z	-.056	1.5
23	MP BETA4	Z	-.056	6.5
24	MP BETA4	Z	-.056	1.5
25	MP ALPHA1	Z	-.019	4
26	MP BETA1	Z	-.019	4
27	MP GAMMA1	Z	-.019	4
28	MP ALPHA2	Z	-.053	4
29	MP BETA2	Z	-.053	4
30	MP GAMMA2	Z	-.053	4
31	MP ALPHA3	Z	-.053	4
32	MP BETA3	Z	-.053	4
33	MP GAMMA3	Z	-.053	4
34	MP ALPHA4	Z	-.044	4
35	MP BETA4	Z	-.044	4
36	MP GAMMA4	Z	-.044	4
37	MP ALPHA2	Z	-.071	4
38	MP BETA2	Z	-.071	4
39	MP GAMMA2	Z	-.071	4
40	MP ALPHA3	Z	-.06	4
41	MP BETA3	Z	-.06	4
42	MP GAMMA3	Z	-.06	4
43	MP ALPHA1	Z	-.002	4
44	MP BETA1	Z	-.002	4
45	MP GAMMA1	Z	-.002	4
46	MP ALPHA3	Z	-.033	4
47	MP ALPHA2	Z	-.033	4
48	MP ALPHA4	Z	-.033	4

Member Point Loads (BLC 4 : Wind Load (30))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	-.2	6.292
2	MP ALPHA2	Y	-.2	1.708
3	MP ALPHA2	X	-.116	6.292
4	MP ALPHA2	X	-.116	1.708
5	MP BETA2	Y	-.089	6.292
6	MP BETA2	Y	-.089	1.708
7	MP BETA2	X	-.051	6.292
8	MP BETA2	X	-.051	1.708
9	MP GAMMA2	Y	-.266	6.917
10	MP GAMMA2	Y	-.266	1.083
11	MP GAMMA2	X	-.154	6.917
12	MP GAMMA2	X	-.154	1.083
13	MP GAMMA4	Y	-.212	6.917
14	MP GAMMA4	Y	-.212	1.083
15	MP GAMMA4	X	-.122	6.917
16	MP GAMMA4	X	-.122	1.083

Member Point Loads (BLC 4 : Wind Load (30)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
17	MP ALPHA1	Y	-.067	5.875
18	MP ALPHA1	Y	-.067	2.125
19	MP ALPHA1	X	-.038	5.875
20	MP ALPHA1	X	-.038	2.125
21	MP BETA1	Y	-.043	5.875
22	MP BETA1	Y	-.043	2.125
23	MP BETA1	X	-.025	5.875
24	MP BETA1	X	-.025	2.125
25	MP GAMMA1	Y	-.067	5.875
26	MP GAMMA1	Y	-.067	2.125
27	MP GAMMA1	X	-.038	5.875
28	MP GAMMA1	X	-.038	2.125
29	MP ALPHA3	Y	-.203	6.5
30	MP ALPHA3	Y	-.203	1.5
31	MP ALPHA3	X	-.117	6.5
32	MP ALPHA3	X	-.117	1.5
33	MP BETA3	Y	-.084	6.5
34	MP BETA3	Y	-.084	1.5
35	MP BETA3	X	-.048	6.5
36	MP BETA3	X	-.048	1.5
37	MP GAMMA3	Y	-.243	6.917
38	MP GAMMA3	Y	-.243	1.083
39	MP GAMMA3	X	-.14	6.917
40	MP GAMMA3	X	-.14	1.083
41	MP ALPHA4	Y	-.077	6.5
42	MP ALPHA4	Y	-.077	1.5
43	MP ALPHA4	X	-.044	6.5
44	MP ALPHA4	X	-.044	1.5
45	MP BETA4	Y	-.067	6.5
46	MP BETA4	Y	-.067	1.5
47	MP BETA4	X	-.039	6.5
48	MP BETA4	X	-.039	1.5
49	MP ALPHA1	Y	-.029	4
50	MP ALPHA1	X	-.017	4
51	MP BETA1	Y	-.012	4
52	MP BETA1	X	-.007	4
53	MP GAMMA1	Y	-.029	4
54	MP GAMMA1	X	-.017	4
55	MP ALPHA2	Y	-.089	4
56	MP ALPHA2	X	-.051	4
57	MP BETA2	Y	-.06	4
58	MP BETA2	X	-.034	4
59	MP GAMMA2	Y	-.089	4
60	MP GAMMA2	X	-.051	4
61	MP ALPHA3	Y	-.089	4
62	MP ALPHA3	X	-.051	4
63	MP BETA3	Y	-.06	4
64	MP BETA3	X	-.034	4
65	MP GAMMA3	Y	-.089	4
66	MP GAMMA3	X	-.051	4
67	MP ALPHA4	Y	-.031	4
68	MP ALPHA4	X	-.018	4
69	MP BETA4	Y	-.023	4
70	MP BETA4	X	-.014	4
71	MP GAMMA4	Y	-.031	4
72	MP GAMMA4	X	-.018	4
73	MP ALPHA2	Y	-.065	4

Member Point Loads (BLC 4 : Wind Load (30)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
74	MP ALPHA2	X	-.038	4
75	MP BETA2	Y	-.05	4
76	MP BETA2	X	-.029	4
77	MP GAMMA2	Y	-.065	4
78	MP GAMMA2	X	-.038	4
79	MP ALPHA3	Y	-.059	4
80	MP ALPHA3	X	-.034	4
81	MP BETA3	Y	-.038	4
82	MP BETA3	X	-.022	4
83	MP GAMMA3	Y	-.059	4
84	MP GAMMA3	X	-.034	4
85	MP ALPHA1	Y	-.009	4
86	MP ALPHA1	X	-.005	4
87	MP BETA1	Y	-.008	4
88	MP BETA1	X	-.005	4
89	MP GAMMA1	Y	-.009	4
90	MP GAMMA1	X	-.005	4
91	MP ALPHA3	Y	-.031	4
92	MP ALPHA3	X	-.018	4
93	MP ALPHA2	Y	-.045	4
94	MP ALPHA2	X	-.026	4
95	MP ALPHA4	Y	-.045	4
96	MP ALPHA4	X	-.026	4

Member Point Loads (BLC 5 : Wind Load (60))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	-.073	6.292
2	MP ALPHA2	Y	-.073	1.708
3	MP ALPHA2	X	-.126	6.292
4	MP ALPHA2	X	-.126	1.708
5	MP BETA2	Y	-.073	6.292
6	MP BETA2	Y	-.073	1.708
7	MP BETA2	X	-.126	6.292
8	MP BETA2	X	-.126	1.708
9	MP GAMMA2	Y	-.182	6.917
10	MP GAMMA2	Y	-.182	1.083
11	MP GAMMA2	X	-.315	6.917
12	MP GAMMA2	X	-.315	1.083
13	MP GAMMA4	Y	-.136	6.917
14	MP GAMMA4	Y	-.136	1.083
15	MP GAMMA4	X	-.236	6.917
16	MP GAMMA4	X	-.236	1.083
17	MP ALPHA1	Y	-.029	5.875
18	MP ALPHA1	Y	-.029	2.125
19	MP ALPHA1	X	-.051	5.875
20	MP ALPHA1	X	-.051	2.125
21	MP BETA1	Y	-.029	5.875
22	MP BETA1	Y	-.029	2.125
23	MP BETA1	X	-.051	5.875
24	MP BETA1	X	-.051	2.125
25	MP GAMMA1	Y	-.043	5.875
26	MP GAMMA1	Y	-.043	2.125
27	MP GAMMA1	X	-.074	5.875
28	MP GAMMA1	X	-.074	2.125
29	MP ALPHA3	Y	-.071	6.5
30	MP ALPHA3	Y	-.071	1.5

Member Point Loads (BLC 5 : Wind Load (60)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
31	MP ALPHA3	X	-.124	6.5
32	MP ALPHA3	X	-.124	1.5
33	MP BETA3	Y	-.071	6.5
34	MP BETA3	Y	-.071	1.5
35	MP BETA3	X	-.124	6.5
36	MP BETA3	X	-.124	1.5
37	MP GAMMA3	Y	-.167	6.917
38	MP GAMMA3	Y	-.167	1.083
39	MP GAMMA3	X	-.29	6.917
40	MP GAMMA3	X	-.29	1.083
41	MP ALPHA4	Y	-.041	6.5
42	MP ALPHA4	Y	-.041	1.5
43	MP ALPHA4	X	-.07	6.5
44	MP ALPHA4	X	-.07	1.5
45	MP BETA4	Y	-.041	6.5
46	MP BETA4	Y	-.041	1.5
47	MP BETA4	X	-.07	6.5
48	MP BETA4	X	-.07	1.5
49	MP ALPHA1	Y	-.01	4
50	MP ALPHA1	X	-.018	4
51	MP BETA1	Y	-.01	4
52	MP BETA1	X	-.018	4
53	MP GAMMA1	Y	-.02	4
54	MP GAMMA1	X	-.035	4
55	MP ALPHA2	Y	-.04	4
56	MP ALPHA2	X	-.069	4
57	MP BETA2	Y	-.04	4
58	MP BETA2	X	-.069	4
59	MP GAMMA2	Y	-.057	4
60	MP GAMMA2	X	-.098	4
61	MP ALPHA3	Y	-.04	4
62	MP ALPHA3	X	-.069	4
63	MP BETA3	Y	-.04	4
64	MP BETA3	X	-.069	4
65	MP GAMMA3	Y	-.057	4
66	MP GAMMA3	X	-.098	4
67	MP ALPHA4	Y	-.015	4
68	MP ALPHA4	X	-.026	4
69	MP BETA4	Y	-.015	4
70	MP BETA4	X	-.026	4
71	MP GAMMA4	Y	-.02	4
72	MP GAMMA4	X	-.034	4
73	MP ALPHA2	Y	-.032	4
74	MP ALPHA2	X	-.055	4
75	MP BETA2	Y	-.032	4
76	MP BETA2	X	-.055	4
77	MP GAMMA2	Y	-.041	4
78	MP GAMMA2	X	-.07	4
79	MP ALPHA3	Y	-.026	4
80	MP ALPHA3	X	-.045	4
81	MP BETA3	Y	-.026	4
82	MP BETA3	X	-.045	4
83	MP GAMMA3	Y	-.038	4
84	MP GAMMA3	X	-.066	4
85	MP ALPHA1	Y	-.005	4
86	MP ALPHA1	X	-.009	4
87	MP BETA1	Y	-.005	4

Member Point Loads (BLC 5 : Wind Load (60)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
88	MP BETA1	X	-.009	4
89	MP GAMMA1	Y	-.006	4
90	MP GAMMA1	X	-.01	4
91	MP ALPHA3	Y	-.019	4
92	MP ALPHA3	X	-.033	4
93	MP ALPHA2	Y	-.027	4
94	MP ALPHA2	X	-.047	4
95	MP ALPHA4	Y	-.027	4
96	MP ALPHA4	X	-.047	4

Member Point Loads (BLC 6 : Wind Load (90))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	X	-.103	6.292
2	MP ALPHA2	X	-.103	1.708
3	MP BETA2	X	-.231	6.292
4	MP BETA2	X	-.231	1.708
5	MP GAMMA2	X	-.307	6.917
6	MP GAMMA2	X	-.307	1.083
7	MP GAMMA4	X	-.245	6.917
8	MP GAMMA4	X	-.245	1.083
9	MP ALPHA1	X	-.05	5.875
10	MP ALPHA1	X	-.05	2.125
11	MP BETA1	X	-.077	5.875
12	MP BETA1	X	-.077	2.125
13	MP GAMMA1	X	-.077	5.875
14	MP GAMMA1	X	-.077	2.125
15	MP ALPHA3	X	-.097	6.5
16	MP ALPHA3	X	-.097	1.5
17	MP BETA3	X	-.235	6.5
18	MP BETA3	X	-.235	1.5
19	MP GAMMA3	X	-.28	6.917
20	MP GAMMA3	X	-.28	1.083
21	MP ALPHA4	X	-.077	6.5
22	MP ALPHA4	X	-.077	1.5
23	MP BETA4	X	-.088	6.5
24	MP BETA4	X	-.088	1.5
25	MP ALPHA1	X	-.014	4
26	MP BETA1	X	-.034	4
27	MP GAMMA1	X	-.034	4
28	MP ALPHA2	X	-.069	4
29	MP BETA2	X	-.102	4
30	MP GAMMA2	X	-.102	4
31	MP ALPHA3	X	-.069	4
32	MP BETA3	X	-.102	4
33	MP GAMMA3	X	-.102	4
34	MP ALPHA4	X	-.027	4
35	MP BETA4	X	-.036	4
36	MP GAMMA4	X	-.036	4
37	MP ALPHA2	X	-.058	4
38	MP BETA2	X	-.076	4
39	MP GAMMA2	X	-.076	4
40	MP ALPHA3	X	-.044	4
41	MP BETA3	X	-.068	4
42	MP GAMMA3	X	-.068	4
43	MP ALPHA1	X	-.01	4
44	MP BETA1	X	-.011	4

Member Point Loads (BLC 6 : Wind Load (90)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
45	MP GAMMA1	X	-.011	4
46	MP ALPHA3	X	-.039	4
47	MP ALPHA2	X	-.056	4
48	MP ALPHA4	X	-.056	4

Member Point Loads (BLC 7 : Wind Load (120))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	.073	6.292
2	MP ALPHA2	Y	.073	1.708
3	MP ALPHA2	X	-.126	6.292
4	MP ALPHA2	X	-.126	1.708
5	MP BETA2	Y	.137	6.292
6	MP BETA2	Y	.137	1.708
7	MP BETA2	X	-.237	6.292
8	MP BETA2	X	-.237	1.708
9	MP GAMMA2	Y	.097	6.917
10	MP GAMMA2	Y	.097	1.083
11	MP GAMMA2	X	-.168	6.917
12	MP GAMMA2	X	-.168	1.083
13	MP GAMMA4	Y	.094	6.917
14	MP GAMMA4	Y	.094	1.083
15	MP GAMMA4	X	-.164	6.917
16	MP GAMMA4	X	-.164	1.083
17	MP ALPHA1	Y	.029	5.875
18	MP ALPHA1	Y	.029	2.125
19	MP ALPHA1	X	-.051	5.875
20	MP ALPHA1	X	-.051	2.125
21	MP BETA1	Y	.043	5.875
22	MP BETA1	Y	.043	2.125
23	MP BETA1	X	-.074	5.875
24	MP BETA1	X	-.074	2.125
25	MP GAMMA1	Y	.029	5.875
26	MP GAMMA1	Y	.029	2.125
27	MP GAMMA1	X	-.051	5.875
28	MP GAMMA1	X	-.051	2.125
29	MP ALPHA3	Y	.071	6.5
30	MP ALPHA3	Y	.071	1.5
31	MP ALPHA3	X	-.124	6.5
32	MP ALPHA3	X	-.124	1.5
33	MP BETA3	Y	.14	6.5
34	MP BETA3	Y	.14	1.5
35	MP BETA3	X	-.243	6.5
36	MP BETA3	X	-.243	1.5
37	MP GAMMA3	Y	.085	6.917
38	MP GAMMA3	Y	.085	1.083
39	MP GAMMA3	X	-.148	6.917
40	MP GAMMA3	X	-.148	1.083
41	MP ALPHA4	Y	.041	6.5
42	MP ALPHA4	Y	.041	1.5
43	MP ALPHA4	X	-.07	6.5
44	MP ALPHA4	X	-.07	1.5
45	MP BETA4	Y	.046	6.5
46	MP BETA4	Y	.046	1.5
47	MP BETA4	X	-.08	6.5
48	MP BETA4	X	-.08	1.5
49	MP ALPHA1	Y	.01	4

Member Point Loads (BLC 7 : Wind Load (120)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
50	MP ALPHA1	X	-.018	4
51	MP BETA1	Y	.02	4
52	MP BETA1	X	-.035	4
53	MP GAMMA1	Y	.01	4
54	MP GAMMA1	X	-.018	4
55	MP ALPHA2	Y	.04	4
56	MP ALPHA2	X	-.069	4
57	MP BETA2	Y	.057	4
58	MP BETA2	X	-.098	4
59	MP GAMMA2	Y	.04	4
60	MP GAMMA2	X	-.069	4
61	MP ALPHA3	Y	.04	4
62	MP ALPHA3	X	-.069	4
63	MP BETA3	Y	.057	4
64	MP BETA3	X	-.098	4
65	MP GAMMA3	Y	.04	4
66	MP GAMMA3	X	-.069	4
67	MP ALPHA4	Y	.015	4
68	MP ALPHA4	X	-.026	4
69	MP BETA4	Y	.02	4
70	MP BETA4	X	-.034	4
71	MP GAMMA4	Y	.015	4
72	MP GAMMA4	X	-.026	4
73	MP ALPHA2	Y	.032	4
74	MP ALPHA2	X	-.055	4
75	MP BETA2	Y	.041	4
76	MP BETA2	X	-.07	4
77	MP GAMMA2	Y	.032	4
78	MP GAMMA2	X	-.055	4
79	MP ALPHA3	Y	.026	4
80	MP ALPHA3	X	-.045	4
81	MP BETA3	Y	.038	4
82	MP BETA3	X	-.066	4
83	MP GAMMA3	Y	.026	4
84	MP GAMMA3	X	-.045	4
85	MP ALPHA1	Y	.005	4
86	MP ALPHA1	X	-.009	4
87	MP BETA1	Y	.006	4
88	MP BETA1	X	-.01	4
89	MP GAMMA1	Y	.005	4
90	MP GAMMA1	X	-.009	4
91	MP ALPHA3	Y	.019	4
92	MP ALPHA3	X	-.033	4
93	MP ALPHA2	Y	.027	4
94	MP ALPHA2	X	-.047	4
95	MP ALPHA4	Y	.027	4
96	MP ALPHA4	X	-.047	4

Member Point Loads (BLC 8 : Wind Load (150))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	.2	6.292
2	MP ALPHA2	Y	.2	1.708
3	MP ALPHA2	X	-.116	6.292
4	MP ALPHA2	X	-.116	1.708
5	MP BETA2	Y	.2	6.292
6	MP BETA2	Y	.2	1.708

Member Point Loads (BLC 8 : Wind Load (150)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
7	MP BETA2	X	-.116	6.292
8	MP BETA2	X	-.116	1.708
9	MP GAMMA2	Y	.118	6.917
10	MP GAMMA2	Y	.118	1.083
11	MP GAMMA2	X	-.068	6.917
12	MP GAMMA2	X	-.068	1.083
13	MP GAMMA4	Y	.139	6.917
14	MP GAMMA4	Y	.139	1.083
15	MP GAMMA4	X	-.081	6.917
16	MP GAMMA4	X	-.081	1.083
17	MP ALPHA1	Y	.067	5.875
18	MP ALPHA1	Y	.067	2.125
19	MP ALPHA1	X	-.038	5.875
20	MP ALPHA1	X	-.038	2.125
21	MP BETA1	Y	.067	5.875
22	MP BETA1	Y	.067	2.125
23	MP BETA1	X	-.038	5.875
24	MP BETA1	X	-.038	2.125
25	MP GAMMA1	Y	.043	5.875
26	MP GAMMA1	Y	.043	2.125
27	MP GAMMA1	X	-.025	5.875
28	MP GAMMA1	X	-.025	2.125
29	MP ALPHA3	Y	.203	6.5
30	MP ALPHA3	Y	.203	1.5
31	MP ALPHA3	X	-.117	6.5
32	MP ALPHA3	X	-.117	1.5
33	MP BETA3	Y	.203	6.5
34	MP BETA3	Y	.203	1.5
35	MP BETA3	X	-.117	6.5
36	MP BETA3	X	-.117	1.5
37	MP GAMMA3	Y	.1	6.917
38	MP GAMMA3	Y	.1	1.083
39	MP GAMMA3	X	-.058	6.917
40	MP GAMMA3	X	-.058	1.083
41	MP ALPHA4	Y	.077	6.5
42	MP ALPHA4	Y	.077	1.5
43	MP ALPHA4	X	-.044	6.5
44	MP ALPHA4	X	-.044	1.5
45	MP BETA4	Y	.077	6.5
46	MP BETA4	Y	.077	1.5
47	MP BETA4	X	-.044	6.5
48	MP BETA4	X	-.044	1.5
49	MP ALPHA1	Y	.029	4
50	MP ALPHA1	X	-.017	4
51	MP BETA1	Y	.029	4
52	MP BETA1	X	-.017	4
53	MP GAMMA1	Y	.012	4
54	MP GAMMA1	X	-.007	4
55	MP ALPHA2	Y	.089	4
56	MP ALPHA2	X	-.051	4
57	MP BETA2	Y	.089	4
58	MP BETA2	X	-.051	4
59	MP GAMMA2	Y	.06	4
60	MP GAMMA2	X	-.034	4
61	MP ALPHA3	Y	.089	4
62	MP ALPHA3	X	-.051	4
63	MP BETA3	Y	.089	4

Member Point Loads (BLC 8 : Wind Load (150)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
64	MP BETA3	X	-.051	4
65	MP GAMMA3	Y	.06	4
66	MP GAMMA3	X	-.034	4
67	MP ALPHA4	Y	.031	4
68	MP ALPHA4	X	-.018	4
69	MP BETA4	Y	.031	4
70	MP BETA4	X	-.018	4
71	MP GAMMA4	Y	.023	4
72	MP GAMMA4	X	-.014	4
73	MP ALPHA2	Y	.065	4
74	MP ALPHA2	X	-.038	4
75	MP BETA2	Y	.065	4
76	MP BETA2	X	-.038	4
77	MP GAMMA2	Y	.05	4
78	MP GAMMA2	X	-.029	4
79	MP ALPHA3	Y	.059	4
80	MP ALPHA3	X	-.034	4
81	MP BETA3	Y	.059	4
82	MP BETA3	X	-.034	4
83	MP GAMMA3	Y	.038	4
84	MP GAMMA3	X	-.022	4
85	MP ALPHA1	Y	.009	4
86	MP ALPHA1	X	-.005	4
87	MP BETA1	Y	.009	4
88	MP BETA1	X	-.005	4
89	MP GAMMA1	Y	.008	4
90	MP GAMMA1	X	-.005	4
91	MP ALPHA3	Y	.031	4
92	MP ALPHA3	X	-.018	4
93	MP ALPHA2	Y	.045	4
94	MP ALPHA2	X	-.026	4
95	MP ALPHA4	Y	.045	4
96	MP ALPHA4	X	-.026	4

Member Point Loads (BLC 9 : Wind Load (180))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	.274	6.292
2	MP ALPHA2	Y	.274	1.708
3	MP BETA2	Y	.146	6.292
4	MP BETA2	Y	.146	1.708
5	MP GAMMA2	Y	.193	6.917
6	MP GAMMA2	Y	.193	1.083
7	MP GAMMA4	Y	.189	6.917
8	MP GAMMA4	Y	.189	1.083
9	MP ALPHA1	Y	.086	5.875
10	MP ALPHA1	Y	.086	2.125
11	MP BETA1	Y	.059	5.875
12	MP BETA1	Y	.059	2.125
13	MP GAMMA1	Y	.059	5.875
14	MP GAMMA1	Y	.059	2.125
15	MP ALPHA3	Y	.281	6.5
16	MP ALPHA3	Y	.281	1.5
17	MP BETA3	Y	.143	6.5
18	MP BETA3	Y	.143	1.5
19	MP GAMMA3	Y	.17	6.917
20	MP GAMMA3	Y	.17	1.083

Member Point Loads (BLC 9 : Wind Load (180)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
21	MP ALPHA4	Y	.092	6.5
22	MP ALPHA4	Y	.092	1.5
23	MP BETA4	Y	.081	6.5
24	MP BETA4	Y	.081	1.5
25	MP ALPHA1	Y	.04	4
26	MP BETA1	Y	.021	4
27	MP GAMMA1	Y	.021	4
28	MP ALPHA2	Y	.113	4
29	MP BETA2	Y	.08	4
30	MP GAMMA2	Y	.08	4
31	MP ALPHA3	Y	.113	4
32	MP BETA3	Y	.08	4
33	MP GAMMA3	Y	.08	4
34	MP ALPHA4	Y	.039	4
35	MP BETA4	Y	.03	4
36	MP GAMMA4	Y	.03	4
37	MP ALPHA2	Y	.081	4
38	MP BETA2	Y	.064	4
39	MP GAMMA2	Y	.064	4
40	MP ALPHA3	Y	.076	4
41	MP BETA3	Y	.052	4
42	MP GAMMA3	Y	.052	4
43	MP ALPHA1	Y	.011	4
44	MP BETA1	Y	.01	4
45	MP GAMMA1	Y	.01	4
46	MP ALPHA3	Y	.035	4
47	MP ALPHA2	Y	.05	4
48	MP ALPHA4	Y	.05	4

Member Point Loads (BLC 10 : Wind Load (210))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	.2	6.292
2	MP ALPHA2	Y	.2	1.708
3	MP ALPHA2	X	.116	6.292
4	MP ALPHA2	X	.116	1.708
5	MP BETA2	Y	.089	6.292
6	MP BETA2	Y	.089	1.708
7	MP BETA2	X	.051	6.292
8	MP BETA2	X	.051	1.708
9	MP GAMMA2	Y	.266	6.917
10	MP GAMMA2	Y	.266	1.083
11	MP GAMMA2	X	.154	6.917
12	MP GAMMA2	X	.154	1.083
13	MP GAMMA4	Y	.212	6.917
14	MP GAMMA4	Y	.212	1.083
15	MP GAMMA4	X	.122	6.917
16	MP GAMMA4	X	.122	1.083
17	MP ALPHA1	Y	.067	5.875
18	MP ALPHA1	Y	.067	2.125
19	MP ALPHA1	X	.038	5.875
20	MP ALPHA1	X	.038	2.125
21	MP BETA1	Y	.043	5.875
22	MP BETA1	Y	.043	2.125
23	MP BETA1	X	.025	5.875
24	MP BETA1	X	.025	2.125
25	MP GAMMA1	Y	.067	5.875

Member Point Loads (BLC 10 : Wind Load (210)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
26	MP GAMMA1	Y	.067	2.125
27	MP GAMMA1	X	.038	5.875
28	MP GAMMA1	X	.038	2.125
29	MP ALPHA3	Y	.203	6.5
30	MP ALPHA3	Y	.203	1.5
31	MP ALPHA3	X	.117	6.5
32	MP ALPHA3	X	.117	1.5
33	MP BETA3	Y	.084	6.5
34	MP BETA3	Y	.084	1.5
35	MP BETA3	X	.048	6.5
36	MP BETA3	X	.048	1.5
37	MP GAMMA3	Y	.243	6.917
38	MP GAMMA3	Y	.243	1.083
39	MP GAMMA3	X	.14	6.917
40	MP GAMMA3	X	.14	1.083
41	MP ALPHA4	Y	.077	6.5
42	MP ALPHA4	Y	.077	1.5
43	MP ALPHA4	X	.044	6.5
44	MP ALPHA4	X	.044	1.5
45	MP BETA4	Y	.067	6.5
46	MP BETA4	Y	.067	1.5
47	MP BETA4	X	.039	6.5
48	MP BETA4	X	.039	1.5
49	MP ALPHA1	Y	.029	4
50	MP ALPHA1	X	.017	4
51	MP BETA1	Y	.012	4
52	MP BETA1	X	.007	4
53	MP GAMMA1	Y	.029	4
54	MP GAMMA1	X	.017	4
55	MP ALPHA2	Y	.089	4
56	MP ALPHA2	X	.051	4
57	MP BETA2	Y	.06	4
58	MP BETA2	X	.034	4
59	MP GAMMA2	Y	.089	4
60	MP GAMMA2	X	.051	4
61	MP ALPHA3	Y	.089	4
62	MP ALPHA3	X	.051	4
63	MP BETA3	Y	.06	4
64	MP BETA3	X	.034	4
65	MP GAMMA3	Y	.089	4
66	MP GAMMA3	X	.051	4
67	MP ALPHA4	Y	.031	4
68	MP ALPHA4	X	.018	4
69	MP BETA4	Y	.023	4
70	MP BETA4	X	.014	4
71	MP GAMMA4	Y	.031	4
72	MP GAMMA4	X	.018	4
73	MP ALPHA2	Y	.065	4
74	MP ALPHA2	X	.038	4
75	MP BETA2	Y	.05	4
76	MP BETA2	X	.029	4
77	MP GAMMA2	Y	.065	4
78	MP GAMMA2	X	.038	4
79	MP ALPHA3	Y	.059	4
80	MP ALPHA3	X	.034	4
81	MP BETA3	Y	.038	4
82	MP BETA3	X	.022	4

Member Point Loads (BLC 10 : Wind Load (210)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
83	MP GAMMA3	Y	.059	4
84	MP GAMMA3	X	.034	4
85	MP ALPHA1	Y	.009	4
86	MP ALPHA1	X	.005	4
87	MP BETA1	Y	.008	4
88	MP BETA1	X	.005	4
89	MP GAMMA1	Y	.009	4
90	MP GAMMA1	X	.005	4
91	MP ALPHA3	Y	.031	4
92	MP ALPHA3	X	.018	4
93	MP ALPHA2	Y	.045	4
94	MP ALPHA2	X	.026	4
95	MP ALPHA4	Y	.045	4
96	MP ALPHA4	X	.026	4

Member Point Loads (BLC 11 : Wind Load (240))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	.073	6.292
2	MP ALPHA2	Y	.073	1.708
3	MP ALPHA2	X	.126	6.292
4	MP ALPHA2	X	.126	1.708
5	MP BETA2	Y	.073	6.292
6	MP BETA2	Y	.073	1.708
7	MP BETA2	X	.126	6.292
8	MP BETA2	X	.126	1.708
9	MP GAMMA2	Y	.182	6.917
10	MP GAMMA2	Y	.182	1.083
11	MP GAMMA2	X	.315	6.917
12	MP GAMMA2	X	.315	1.083
13	MP GAMMA4	Y	.136	6.917
14	MP GAMMA4	Y	.136	1.083
15	MP GAMMA4	X	.236	6.917
16	MP GAMMA4	X	.236	1.083
17	MP ALPHA1	Y	.029	5.875
18	MP ALPHA1	Y	.029	2.125
19	MP ALPHA1	X	.051	5.875
20	MP ALPHA1	X	.051	2.125
21	MP BETA1	Y	.029	5.875
22	MP BETA1	Y	.029	2.125
23	MP BETA1	X	.051	5.875
24	MP BETA1	X	.051	2.125
25	MP GAMMA1	Y	.043	5.875
26	MP GAMMA1	Y	.043	2.125
27	MP GAMMA1	X	.074	5.875
28	MP GAMMA1	X	.074	2.125
29	MP ALPHA3	Y	.071	6.5
30	MP ALPHA3	Y	.071	1.5
31	MP ALPHA3	X	.124	6.5
32	MP ALPHA3	X	.124	1.5
33	MP BETA3	Y	.071	6.5
34	MP BETA3	Y	.071	1.5
35	MP BETA3	X	.124	6.5
36	MP BETA3	X	.124	1.5
37	MP GAMMA3	Y	.167	6.917
38	MP GAMMA3	Y	.167	1.083
39	MP GAMMA3	X	.29	6.917

Member Point Loads (BLC 11 : Wind Load (240)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
40	MP GAMMA3	X	.29	1.083
41	MP ALPHA4	Y	.041	6.5
42	MP ALPHA4	Y	.041	1.5
43	MP ALPHA4	X	.07	6.5
44	MP ALPHA4	X	.07	1.5
45	MP BETA4	Y	.041	6.5
46	MP BETA4	Y	.041	1.5
47	MP BETA4	X	.07	6.5
48	MP BETA4	X	.07	1.5
49	MP ALPHA1	Y	.01	4
50	MP ALPHA1	X	.018	4
51	MP BETA1	Y	.01	4
52	MP BETA1	X	.018	4
53	MP GAMMA1	Y	.02	4
54	MP GAMMA1	X	.035	4
55	MP ALPHA2	Y	.04	4
56	MP ALPHA2	X	.069	4
57	MP BETA2	Y	.04	4
58	MP BETA2	X	.069	4
59	MP GAMMA2	Y	.057	4
60	MP GAMMA2	X	.098	4
61	MP ALPHA3	Y	.04	4
62	MP ALPHA3	X	.069	4
63	MP BETA3	Y	.04	4
64	MP BETA3	X	.069	4
65	MP GAMMA3	Y	.057	4
66	MP GAMMA3	X	.098	4
67	MP ALPHA4	Y	.015	4
68	MP ALPHA4	X	.026	4
69	MP BETA4	Y	.015	4
70	MP BETA4	X	.026	4
71	MP GAMMA4	Y	.02	4
72	MP GAMMA4	X	.034	4
73	MP ALPHA2	Y	.032	4
74	MP ALPHA2	X	.055	4
75	MP BETA2	Y	.032	4
76	MP BETA2	X	.055	4
77	MP GAMMA2	Y	.041	4
78	MP GAMMA2	X	.07	4
79	MP ALPHA3	Y	.026	4
80	MP ALPHA3	X	.045	4
81	MP BETA3	Y	.026	4
82	MP BETA3	X	.045	4
83	MP GAMMA3	Y	.038	4
84	MP GAMMA3	X	.066	4
85	MP ALPHA1	Y	.005	4
86	MP ALPHA1	X	.009	4
87	MP BETA1	Y	.005	4
88	MP BETA1	X	.009	4
89	MP GAMMA1	Y	.006	4
90	MP GAMMA1	X	.01	4
91	MP ALPHA3	Y	.019	4
92	MP ALPHA3	X	.033	4
93	MP ALPHA2	Y	.027	4
94	MP ALPHA2	X	.047	4
95	MP ALPHA4	Y	.027	4
96	MP ALPHA4	X	.047	4

Member Point Loads (BLC 12 : Wind Load (270))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	X	.103	6.292
2	MP ALPHA2	X	.103	1.708
3	MP BETA2	X	.231	6.292
4	MP BETA2	X	.231	1.708
5	MP GAMMA2	X	.307	6.917
6	MP GAMMA2	X	.307	1.083
7	MP GAMMA4	X	.245	6.917
8	MP GAMMA4	X	.245	1.083
9	MP ALPHA1	X	.05	5.875
10	MP ALPHA1	X	.05	2.125
11	MP BETA1	X	.077	5.875
12	MP BETA1	X	.077	2.125
13	MP GAMMA1	X	.077	5.875
14	MP GAMMA1	X	.077	2.125
15	MP ALPHA3	X	.097	6.5
16	MP ALPHA3	X	.097	1.5
17	MP BETA3	X	.235	6.5
18	MP BETA3	X	.235	1.5
19	MP GAMMA3	X	.28	6.917
20	MP GAMMA3	X	.28	1.083
21	MP ALPHA4	X	.077	6.5
22	MP ALPHA4	X	.077	1.5
23	MP BETA4	X	.088	6.5
24	MP BETA4	X	.088	1.5
25	MP ALPHA1	X	.014	4
26	MP BETA1	X	.034	4
27	MP GAMMA1	X	.034	4
28	MP ALPHA2	X	.069	4
29	MP BETA2	X	.102	4
30	MP GAMMA2	X	.102	4
31	MP ALPHA3	X	.069	4
32	MP BETA3	X	.102	4
33	MP GAMMA3	X	.102	4
34	MP ALPHA4	X	.027	4
35	MP BETA4	X	.036	4
36	MP GAMMA4	X	.036	4
37	MP ALPHA2	X	.058	4
38	MP BETA2	X	.076	4
39	MP GAMMA2	X	.076	4
40	MP ALPHA3	X	.044	4
41	MP BETA3	X	.068	4
42	MP GAMMA3	X	.068	4
43	MP ALPHA1	X	.01	4
44	MP BETA1	X	.011	4
45	MP GAMMA1	X	.011	4
46	MP ALPHA3	X	.039	4
47	MP ALPHA2	X	.056	4
48	MP ALPHA4	X	.056	4

Member Point Loads (BLC 13 : Wind Load (300))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	-.073	6.292
2	MP ALPHA2	Y	-.073	1.708
3	MP ALPHA2	X	.126	6.292
4	MP ALPHA2	X	.126	1.708
5	MP BETA2	Y	-.137	6.292

Member Point Loads (BLC 13 : Wind Load (300)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
6	MP BETA2	Y	-.137	1.708
7	MP BETA2	X	.237	6.292
8	MP BETA2	X	.237	1.708
9	MP GAMMA2	Y	-.097	6.917
10	MP GAMMA2	Y	-.097	1.083
11	MP GAMMA2	X	.168	6.917
12	MP GAMMA2	X	.168	1.083
13	MP GAMMA4	Y	-.094	6.917
14	MP GAMMA4	Y	-.094	1.083
15	MP GAMMA4	X	.164	6.917
16	MP GAMMA4	X	.164	1.083
17	MP ALPHA1	Y	-.029	5.875
18	MP ALPHA1	Y	-.029	2.125
19	MP ALPHA1	X	.051	5.875
20	MP ALPHA1	X	.051	2.125
21	MP BETA1	Y	-.043	5.875
22	MP BETA1	Y	-.043	2.125
23	MP BETA1	X	.074	5.875
24	MP BETA1	X	.074	2.125
25	MP GAMMA1	Y	-.029	5.875
26	MP GAMMA1	Y	-.029	2.125
27	MP GAMMA1	X	.051	5.875
28	MP GAMMA1	X	.051	2.125
29	MP ALPHA3	Y	-.071	6.5
30	MP ALPHA3	Y	-.071	1.5
31	MP ALPHA3	X	.124	6.5
32	MP ALPHA3	X	.124	1.5
33	MP BETA3	Y	-.14	6.5
34	MP BETA3	Y	-.14	1.5
35	MP BETA3	X	.243	6.5
36	MP BETA3	X	.243	1.5
37	MP GAMMA3	Y	-.085	6.917
38	MP GAMMA3	Y	-.085	1.083
39	MP GAMMA3	X	.148	6.917
40	MP GAMMA3	X	.148	1.083
41	MP ALPHA4	Y	-.041	6.5
42	MP ALPHA4	Y	-.041	1.5
43	MP ALPHA4	X	.07	6.5
44	MP ALPHA4	X	.07	1.5
45	MP BETA4	Y	-.046	6.5
46	MP BETA4	Y	-.046	1.5
47	MP BETA4	X	.08	6.5
48	MP BETA4	X	.08	1.5
49	MP ALPHA1	Y	-.01	4
50	MP ALPHA1	X	.018	4
51	MP BETA1	Y	-.02	4
52	MP BETA1	X	.035	4
53	MP GAMMA1	Y	-.01	4
54	MP GAMMA1	X	.018	4
55	MP ALPHA2	Y	-.04	4
56	MP ALPHA2	X	.069	4
57	MP BETA2	Y	-.057	4
58	MP BETA2	X	.098	4
59	MP GAMMA2	Y	-.04	4
60	MP GAMMA2	X	.069	4
61	MP ALPHA3	Y	-.04	4
62	MP ALPHA3	X	.069	4

Member Point Loads (BLC 13 : Wind Load (300)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
63	MP BETA3	Y	-.057	4
64	MP BETA3	X	.098	4
65	MP GAMMA3	Y	-.04	4
66	MP GAMMA3	X	.069	4
67	MP ALPHA4	Y	-.015	4
68	MP ALPHA4	X	.026	4
69	MP BETA4	Y	-.02	4
70	MP BETA4	X	.034	4
71	MP GAMMA4	Y	-.015	4
72	MP GAMMA4	X	.026	4
73	MP ALPHA2	Y	-.032	4
74	MP ALPHA2	X	.055	4
75	MP BETA2	Y	-.041	4
76	MP BETA2	X	.07	4
77	MP GAMMA2	Y	-.032	4
78	MP GAMMA2	X	.055	4
79	MP ALPHA3	Y	-.026	4
80	MP ALPHA3	X	.045	4
81	MP BETA3	Y	-.038	4
82	MP BETA3	X	.066	4
83	MP GAMMA3	Y	-.026	4
84	MP GAMMA3	X	.045	4
85	MP ALPHA1	Y	-.005	4
86	MP ALPHA1	X	.009	4
87	MP BETA1	Y	-.006	4
88	MP BETA1	X	.01	4
89	MP GAMMA1	Y	-.005	4
90	MP GAMMA1	X	.009	4
91	MP ALPHA3	Y	-.019	4
92	MP ALPHA3	X	.033	4
93	MP ALPHA2	Y	-.027	4
94	MP ALPHA2	X	.047	4
95	MP ALPHA4	Y	-.027	4
96	MP ALPHA4	X	.047	4

Member Point Loads (BLC 14 : Wind Load (330))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	-.2	6.292
2	MP ALPHA2	Y	-.2	1.708
3	MP ALPHA2	X	.116	6.292
4	MP ALPHA2	X	.116	1.708
5	MP BETA2	Y	-.2	6.292
6	MP BETA2	Y	-.2	1.708
7	MP BETA2	X	.116	6.292
8	MP BETA2	X	.116	1.708
9	MP GAMMA2	Y	-.118	6.917
10	MP GAMMA2	Y	-.118	1.083
11	MP GAMMA2	X	.068	6.917
12	MP GAMMA2	X	.068	1.083
13	MP GAMMA4	Y	-.139	6.917
14	MP GAMMA4	Y	-.139	1.083
15	MP GAMMA4	X	.081	6.917
16	MP GAMMA4	X	.081	1.083
17	MP ALPHA1	Y	-.067	5.875
18	MP ALPHA1	Y	-.067	2.125
19	MP ALPHA1	X	.038	5.875

Member Point Loads (BLC 14 : Wind Load (330)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
20	MP ALPHA1	X	.038	2.125
21	MP BETA1	Y	-.067	5.875
22	MP BETA1	Y	-.067	2.125
23	MP BETA1	X	.038	5.875
24	MP BETA1	X	.038	2.125
25	MP GAMMA1	Y	-.043	5.875
26	MP GAMMA1	Y	-.043	2.125
27	MP GAMMA1	X	.025	5.875
28	MP GAMMA1	X	.025	2.125
29	MP ALPHA3	Y	-.203	6.5
30	MP ALPHA3	Y	-.203	1.5
31	MP ALPHA3	X	.117	6.5
32	MP ALPHA3	X	.117	1.5
33	MP BETA3	Y	-.203	6.5
34	MP BETA3	Y	-.203	1.5
35	MP BETA3	X	.117	6.5
36	MP BETA3	X	.117	1.5
37	MP GAMMA3	Y	-.1	6.917
38	MP GAMMA3	Y	-.1	1.083
39	MP GAMMA3	X	.058	6.917
40	MP GAMMA3	X	.058	1.083
41	MP ALPHA4	Y	-.077	6.5
42	MP ALPHA4	Y	-.077	1.5
43	MP ALPHA4	X	.044	6.5
44	MP ALPHA4	X	.044	1.5
45	MP BETA4	Y	-.077	6.5
46	MP BETA4	Y	-.077	1.5
47	MP BETA4	X	.044	6.5
48	MP BETA4	X	.044	1.5
49	MP ALPHA1	Y	-.029	4
50	MP ALPHA1	X	.017	4
51	MP BETA1	Y	-.029	4
52	MP BETA1	X	.017	4
53	MP GAMMA1	Y	-.012	4
54	MP GAMMA1	X	.007	4
55	MP ALPHA2	Y	-.089	4
56	MP ALPHA2	X	.051	4
57	MP BETA2	Y	-.089	4
58	MP BETA2	X	.051	4
59	MP GAMMA2	Y	-.06	4
60	MP GAMMA2	X	.034	4
61	MP ALPHA3	Y	-.089	4
62	MP ALPHA3	X	.051	4
63	MP BETA3	Y	-.089	4
64	MP BETA3	X	.051	4
65	MP GAMMA3	Y	-.06	4
66	MP GAMMA3	X	.034	4
67	MP ALPHA4	Y	-.031	4
68	MP ALPHA4	X	.018	4
69	MP BETA4	Y	-.031	4
70	MP BETA4	X	.018	4
71	MP GAMMA4	Y	-.023	4
72	MP GAMMA4	X	.014	4
73	MP ALPHA2	Y	-.065	4
74	MP ALPHA2	X	.038	4
75	MP BETA2	Y	-.065	4
76	MP BETA2	X	.038	4

Member Point Loads (BLC 14 : Wind Load (330)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
77	MP GAMMA2	Y	-.05	4
78	MP GAMMA2	X	.029	4
79	MP ALPHA3	Y	-.059	4
80	MP ALPHA3	X	.034	4
81	MP BETA3	Y	-.059	4
82	MP BETA3	X	.034	4
83	MP GAMMA3	Y	-.038	4
84	MP GAMMA3	X	.022	4
85	MP ALPHA1	Y	-.009	4
86	MP ALPHA1	X	.005	4
87	MP BETA1	Y	-.009	4
88	MP BETA1	X	.005	4
89	MP GAMMA1	Y	-.008	4
90	MP GAMMA1	X	.005	4
91	MP ALPHA3	Y	-.031	4
92	MP ALPHA3	X	.018	4
93	MP ALPHA2	Y	-.045	4
94	MP ALPHA2	X	.026	4
95	MP ALPHA4	Y	-.045	4
96	MP ALPHA4	X	.026	4

Member Point Loads (BLC 15 : Maintanence (0))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	-.018	6.292
2	MP ALPHA2	Y	-.018	1.708
3	MP BETA2	Y	-.01	6.292
4	MP BETA2	Y	-.01	1.708
5	MP GAMMA2	Y	-.013	6.917
6	MP GAMMA2	Y	-.013	1.083
7	MP GAMMA4	Y	-.013	6.917
8	MP GAMMA4	Y	-.013	1.083
9	MP ALPHA1	Y	-.006	5.875
10	MP ALPHA1	Y	-.006	2.125
11	MP BETA1	Y	-.004	5.875
12	MP BETA1	Y	-.004	2.125
13	MP GAMMA1	Y	-.004	5.875
14	MP GAMMA1	Y	-.004	2.125
15	MP ALPHA3	Y	-.019	6.5
16	MP ALPHA3	Y	-.019	1.5
17	MP BETA3	Y	-.01	6.5
18	MP BETA3	Y	-.01	1.5
19	MP GAMMA3	Y	-.011	6.917
20	MP GAMMA3	Y	-.011	1.083
21	MP ALPHA4	Y	-.006	6.5
22	MP ALPHA4	Y	-.006	1.5
23	MP BETA4	Y	-.005	6.5
24	MP BETA4	Y	-.005	1.5
25	MP ALPHA1	Y	-.003	4
26	MP BETA1	Y	-.001	4
27	MP GAMMA1	Y	-.001	4
28	MP ALPHA2	Y	-.008	4
29	MP BETA2	Y	-.005	4
30	MP GAMMA2	Y	-.005	4
31	MP ALPHA3	Y	-.008	4
32	MP BETA3	Y	-.005	4
33	MP GAMMA3	Y	-.005	4

Member Point Loads (BLC 15 : Maintanence (0)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
34	MP ALPHA4	Y	-.003	4
35	MP BETA4	Y	-.002	4
36	MP GAMMA4	Y	-.002	4
37	MP ALPHA2	Y	-.005	4
38	MP BETA2	Y	-.004	4
39	MP GAMMA2	Y	-.004	4
40	MP ALPHA3	Y	-.005	4
41	MP BETA3	Y	-.003	4
42	MP GAMMA3	Y	-.003	4
43	MP ALPHA1	Y	-.000757	4
44	MP BETA1	Y	-.000669	4
45	MP GAMMA1	Y	-.000669	4
46	MP ALPHA3	Y	-.002	4
47	MP ALPHA2	Y	-.003	4
48	MP ALPHA4	Y	-.003	4

Member Point Loads (BLC 16 : Maintanence (30))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	-.013	6.292
2	MP ALPHA2	Y	-.013	1.708
3	MP ALPHA2	X	-.008	6.292
4	MP ALPHA2	X	-.008	1.708
5	MP BETA2	Y	-.006	6.292
6	MP BETA2	Y	-.006	1.708
7	MP BETA2	X	-.003	6.292
8	MP BETA2	X	-.003	1.708
9	MP GAMMA2	Y	-.018	6.917
10	MP GAMMA2	Y	-.018	1.083
11	MP GAMMA2	X	-.01	6.917
12	MP GAMMA2	X	-.01	1.083
13	MP GAMMA4	Y	-.014	6.917
14	MP GAMMA4	Y	-.014	1.083
15	MP GAMMA4	X	-.008	6.917
16	MP GAMMA4	X	-.008	1.083
17	MP ALPHA1	Y	-.004	5.875
18	MP ALPHA1	Y	-.004	2.125
19	MP ALPHA1	X	-.003	5.875
20	MP ALPHA1	X	-.003	2.125
21	MP BETA1	Y	-.003	5.875
22	MP BETA1	Y	-.003	2.125
23	MP BETA1	X	-.002	5.875
24	MP BETA1	X	-.002	2.125
25	MP GAMMA1	Y	-.004	5.875
26	MP GAMMA1	Y	-.004	2.125
27	MP GAMMA1	X	-.003	5.875
28	MP GAMMA1	X	-.003	2.125
29	MP ALPHA3	Y	-.014	6.5
30	MP ALPHA3	Y	-.014	1.5
31	MP ALPHA3	X	-.008	6.5
32	MP ALPHA3	X	-.008	1.5
33	MP BETA3	Y	-.006	6.5
34	MP BETA3	Y	-.006	1.5
35	MP BETA3	X	-.003	6.5
36	MP BETA3	X	-.003	1.5
37	MP GAMMA3	Y	-.016	6.917
38	MP GAMMA3	Y	-.016	1.083

Member Point Loads (BLC 16 : Maintanence (30)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
39	MP GAMMA3	X	-.009	6.917
40	MP GAMMA3	X	-.009	1.083
41	MP ALPHA4	Y	-.005	6.5
42	MP ALPHA4	Y	-.005	1.5
43	MP ALPHA4	X	-.003	6.5
44	MP ALPHA4	X	-.003	1.5
45	MP BETA4	Y	-.004	6.5
46	MP BETA4	Y	-.004	1.5
47	MP BETA4	X	-.003	6.5
48	MP BETA4	X	-.003	1.5
49	MP ALPHA1	Y	-.002	4
50	MP ALPHA1	X	-.001	4
51	MP BETA1	Y	-.000811	4
52	MP BETA1	X	-.000468	4
53	MP GAMMA1	Y	-.002	4
54	MP GAMMA1	X	-.001	4
55	MP ALPHA2	Y	-.006	4
56	MP ALPHA2	X	-.003	4
57	MP BETA2	Y	-.004	4
58	MP BETA2	X	-.002	4
59	MP GAMMA2	Y	-.006	4
60	MP GAMMA2	X	-.003	4
61	MP ALPHA3	Y	-.006	4
62	MP ALPHA3	X	-.003	4
63	MP BETA3	Y	-.004	4
64	MP BETA3	X	-.002	4
65	MP GAMMA3	Y	-.006	4
66	MP GAMMA3	X	-.003	4
67	MP ALPHA4	Y	-.002	4
68	MP ALPHA4	X	-.001	4
69	MP BETA4	Y	-.002	4
70	MP BETA4	X	-.000904	4
71	MP GAMMA4	Y	-.002	4
72	MP GAMMA4	X	-.001	4
73	MP ALPHA2	Y	-.004	4
74	MP ALPHA2	X	-.003	4
75	MP BETA2	Y	-.003	4
76	MP BETA2	X	-.002	4
77	MP GAMMA2	Y	-.004	4
78	MP GAMMA2	X	-.003	4
79	MP ALPHA3	Y	-.004	4
80	MP ALPHA3	X	-.002	4
81	MP BETA3	Y	-.003	4
82	MP BETA3	X	-.001	4
83	MP GAMMA3	Y	-.004	4
84	MP GAMMA3	X	-.002	4
85	MP ALPHA1	Y	-.00063	4
86	MP ALPHA1	X	-.000364	4
87	MP BETA1	Y	-.000554	4
88	MP BETA1	X	-.00032	4
89	MP GAMMA1	Y	-.00063	4
90	MP GAMMA1	X	-.000364	4
91	MP ALPHA3	Y	-.002	4
92	MP ALPHA3	X	-.001	4
93	MP ALPHA2	Y	-.003	4
94	MP ALPHA2	X	-.002	4
95	MP ALPHA4	Y	-.003	4

Member Point Loads (BLC 16 : Maintanence (30)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
96	MP ALPHA4	X	-.002	4

Member Point Loads (BLC 17 : Maintanence (60))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	-.005	6.292
2	MP ALPHA2	Y	-.005	1.708
3	MP ALPHA2	X	-.008	6.292
4	MP ALPHA2	X	-.008	1.708
5	MP BETA2	Y	-.005	6.292
6	MP BETA2	Y	-.005	1.708
7	MP BETA2	X	-.008	6.292
8	MP BETA2	X	-.008	1.708
9	MP GAMMA2	Y	-.012	6.917
10	MP GAMMA2	Y	-.012	1.083
11	MP GAMMA2	X	-.021	6.917
12	MP GAMMA2	X	-.021	1.083
13	MP GAMMA4	Y	-.009	6.917
14	MP GAMMA4	Y	-.009	1.083
15	MP GAMMA4	X	-.016	6.917
16	MP GAMMA4	X	-.016	1.083
17	MP ALPHA1	Y	-.002	5.875
18	MP ALPHA1	Y	-.002	2.125
19	MP ALPHA1	X	-.003	5.875
20	MP ALPHA1	X	-.003	2.125
21	MP BETA1	Y	-.002	5.875
22	MP BETA1	Y	-.002	2.125
23	MP BETA1	X	-.003	5.875
24	MP BETA1	X	-.003	2.125
25	MP GAMMA1	Y	-.003	5.875
26	MP GAMMA1	Y	-.003	2.125
27	MP GAMMA1	X	-.005	5.875
28	MP GAMMA1	X	-.005	2.125
29	MP ALPHA3	Y	-.005	6.5
30	MP ALPHA3	Y	-.005	1.5
31	MP ALPHA3	X	-.008	6.5
32	MP ALPHA3	X	-.008	1.5
33	MP BETA3	Y	-.005	6.5
34	MP BETA3	Y	-.005	1.5
35	MP BETA3	X	-.008	6.5
36	MP BETA3	X	-.008	1.5
37	MP GAMMA3	Y	-.011	6.917
38	MP GAMMA3	Y	-.011	1.083
39	MP GAMMA3	X	-.019	6.917
40	MP GAMMA3	X	-.019	1.083
41	MP ALPHA4	Y	-.003	6.5
42	MP ALPHA4	Y	-.003	1.5
43	MP ALPHA4	X	-.005	6.5
44	MP ALPHA4	X	-.005	1.5
45	MP BETA4	Y	-.003	6.5
46	MP BETA4	Y	-.003	1.5
47	MP BETA4	X	-.005	6.5
48	MP BETA4	X	-.005	1.5
49	MP ALPHA1	Y	-.000688	4
50	MP ALPHA1	X	-.001	4
51	MP BETA1	Y	-.000688	4
52	MP BETA1	X	-.001	4

Member Point Loads (BLC 17 : Maintanence (60)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
53	MP GAMMA1	Y	-.001	4
54	MP GAMMA1	X	-.002	4
55	MP ALPHA2	Y	-.003	4
56	MP ALPHA2	X	-.005	4
57	MP BETA2	Y	-.003	4
58	MP BETA2	X	-.005	4
59	MP GAMMA2	Y	-.004	4
60	MP GAMMA2	X	-.007	4
61	MP ALPHA3	Y	-.003	4
62	MP ALPHA3	X	-.005	4
63	MP BETA3	Y	-.003	4
64	MP BETA3	X	-.005	4
65	MP GAMMA3	Y	-.004	4
66	MP GAMMA3	X	-.007	4
67	MP ALPHA4	Y	-.001	4
68	MP ALPHA4	X	-.002	4
69	MP BETA4	Y	-.001	4
70	MP BETA4	X	-.002	4
71	MP GAMMA4	Y	-.001	4
72	MP GAMMA4	X	-.002	4
73	MP ALPHA2	Y	-.002	4
74	MP ALPHA2	X	-.004	4
75	MP BETA2	Y	-.002	4
76	MP BETA2	X	-.004	4
77	MP GAMMA2	Y	-.003	4
78	MP GAMMA2	X	-.005	4
79	MP ALPHA3	Y	-.002	4
80	MP ALPHA3	X	-.003	4
81	MP BETA3	Y	-.002	4
82	MP BETA3	X	-.003	4
83	MP GAMMA3	Y	-.003	4
84	MP GAMMA3	X	-.004	4
85	MP ALPHA1	Y	-.000334	4
86	MP ALPHA1	X	-.000579	4
87	MP BETA1	Y	-.000334	4
88	MP BETA1	X	-.000579	4
89	MP GAMMA1	Y	-.000378	4
90	MP GAMMA1	X	-.000655	4
91	MP ALPHA3	Y	-.001	4
92	MP ALPHA3	X	-.002	4
93	MP ALPHA2	Y	-.002	4
94	MP ALPHA2	X	-.003	4
95	MP ALPHA4	Y	-.002	4
96	MP ALPHA4	X	-.003	4

Member Point Loads (BLC 18 : Maintanence (90))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	X	-.007	6.292
2	MP ALPHA2	X	-.007	1.708
3	MP BETA2	X	-.015	6.292
4	MP BETA2	X	-.015	1.708
5	MP GAMMA2	X	-.021	6.917
6	MP GAMMA2	X	-.021	1.083
7	MP GAMMA4	X	-.016	6.917
8	MP GAMMA4	X	-.016	1.083
9	MP ALPHA1	X	-.003	5.875

Member Point Loads (BLC 18 : Maintanence (90)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
10	MP ALPHA1	X	-.003	2.125
11	MP BETA1	X	-.005	5.875
12	MP BETA1	X	-.005	2.125
13	MP GAMMA1	X	-.005	5.875
14	MP GAMMA1	X	-.005	2.125
15	MP ALPHA3	X	-.006	6.5
16	MP ALPHA3	X	-.006	1.5
17	MP BETA3	X	-.016	6.5
18	MP BETA3	X	-.016	1.5
19	MP GAMMA3	X	-.019	6.917
20	MP GAMMA3	X	-.019	1.083
21	MP ALPHA4	X	-.005	6.5
22	MP ALPHA4	X	-.005	1.5
23	MP BETA4	X	-.006	6.5
24	MP BETA4	X	-.006	1.5
25	MP ALPHA1	X	-.000936	4
26	MP BETA1	X	-.002	4
27	MP GAMMA1	X	-.002	4
28	MP ALPHA2	X	-.005	4
29	MP BETA2	X	-.007	4
30	MP GAMMA2	X	-.007	4
31	MP ALPHA3	X	-.005	4
32	MP BETA3	X	-.007	4
33	MP GAMMA3	X	-.007	4
34	MP ALPHA4	X	-.002	4
35	MP BETA4	X	-.002	4
36	MP GAMMA4	X	-.002	4
37	MP ALPHA2	X	-.004	4
38	MP BETA2	X	-.005	4
39	MP GAMMA2	X	-.005	4
40	MP ALPHA3	X	-.003	4
41	MP BETA3	X	-.005	4
42	MP GAMMA3	X	-.005	4
43	MP ALPHA1	X	-.000639	4
44	MP BETA1	X	-.000727	4
45	MP GAMMA1	X	-.000727	4
46	MP ALPHA3	X	-.003	4
47	MP ALPHA2	X	-.004	4
48	MP ALPHA4	X	-.004	4

Member Point Loads (BLC 19 : Maintanence (120))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	.005	6.292
2	MP ALPHA2	Y	.005	1.708
3	MP ALPHA2	X	-.008	6.292
4	MP ALPHA2	X	-.008	1.708
5	MP BETA2	Y	.009	6.292
6	MP BETA2	Y	.009	1.708
7	MP BETA2	X	-.016	6.292
8	MP BETA2	X	-.016	1.708
9	MP GAMMA2	Y	.006	6.917
10	MP GAMMA2	Y	.006	1.083
11	MP GAMMA2	X	-.011	6.917
12	MP GAMMA2	X	-.011	1.083
13	MP GAMMA4	Y	.006	6.917
14	MP GAMMA4	Y	.006	1.083

Member Point Loads (BLC 19 : Maintanence (120)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
15	MP GAMMA4	X	-.011	6.917
16	MP GAMMA4	X	-.011	1.083
17	MP ALPHA1	Y	.002	5.875
18	MP ALPHA1	Y	.002	2.125
19	MP ALPHA1	X	-.003	5.875
20	MP ALPHA1	X	-.003	2.125
21	MP BETA1	Y	.003	5.875
22	MP BETA1	Y	.003	2.125
23	MP BETA1	X	-.005	5.875
24	MP BETA1	X	-.005	2.125
25	MP GAMMA1	Y	.002	5.875
26	MP GAMMA1	Y	.002	2.125
27	MP GAMMA1	X	-.003	5.875
28	MP GAMMA1	X	-.003	2.125
29	MP ALPHA3	Y	.005	6.5
30	MP ALPHA3	Y	.005	1.5
31	MP ALPHA3	X	-.008	6.5
32	MP ALPHA3	X	-.008	1.5
33	MP BETA3	Y	.009	6.5
34	MP BETA3	Y	.009	1.5
35	MP BETA3	X	-.016	6.5
36	MP BETA3	X	-.016	1.5
37	MP GAMMA3	Y	.006	6.917
38	MP GAMMA3	Y	.006	1.083
39	MP GAMMA3	X	-.01	6.917
40	MP GAMMA3	X	-.01	1.083
41	MP ALPHA4	Y	.003	6.5
42	MP ALPHA4	Y	.003	1.5
43	MP ALPHA4	X	-.005	6.5
44	MP ALPHA4	X	-.005	1.5
45	MP BETA4	Y	.003	6.5
46	MP BETA4	Y	.003	1.5
47	MP BETA4	X	-.005	6.5
48	MP BETA4	X	-.005	1.5
49	MP ALPHA1	Y	.000688	4
50	MP ALPHA1	X	-.001	4
51	MP BETA1	Y	.001	4
52	MP BETA1	X	-.002	4
53	MP GAMMA1	Y	.000688	4
54	MP GAMMA1	X	-.001	4
55	MP ALPHA2	Y	.003	4
56	MP ALPHA2	X	-.005	4
57	MP BETA2	Y	.004	4
58	MP BETA2	X	-.007	4
59	MP GAMMA2	Y	.003	4
60	MP GAMMA2	X	-.005	4
61	MP ALPHA3	Y	.003	4
62	MP ALPHA3	X	-.005	4
63	MP BETA3	Y	.004	4
64	MP BETA3	X	-.007	4
65	MP GAMMA3	Y	.003	4
66	MP GAMMA3	X	-.005	4
67	MP ALPHA4	Y	.001	4
68	MP ALPHA4	X	-.002	4
69	MP BETA4	Y	.001	4
70	MP BETA4	X	-.002	4
71	MP GAMMA4	Y	.001	4

Member Point Loads (BLC 19 : Maintanence (120)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
72	MP GAMMA4	X	-.002	4
73	MP ALPHA2	Y	.002	4
74	MP ALPHA2	X	-.004	4
75	MP BETA2	Y	.003	4
76	MP BETA2	X	-.005	4
77	MP GAMMA2	Y	.002	4
78	MP GAMMA2	X	-.004	4
79	MP ALPHA3	Y	.002	4
80	MP ALPHA3	X	-.003	4
81	MP BETA3	Y	.003	4
82	MP BETA3	X	-.004	4
83	MP GAMMA3	Y	.002	4
84	MP GAMMA3	X	-.003	4
85	MP ALPHA1	Y	.000334	4
86	MP ALPHA1	X	-.000579	4
87	MP BETA1	Y	.000378	4
88	MP BETA1	X	-.000655	4
89	MP GAMMA1	Y	.000334	4
90	MP GAMMA1	X	-.000579	4
91	MP ALPHA3	Y	.001	4
92	MP ALPHA3	X	-.002	4
93	MP ALPHA2	Y	.002	4
94	MP ALPHA2	X	-.003	4
95	MP ALPHA4	Y	.002	4
96	MP ALPHA4	X	-.003	4

Member Point Loads (BLC 20 : Maintanence (150))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	.013	6.292
2	MP ALPHA2	Y	.013	1.708
3	MP ALPHA2	X	-.008	6.292
4	MP ALPHA2	X	-.008	1.708
5	MP BETA2	Y	.013	6.292
6	MP BETA2	Y	.013	1.708
7	MP BETA2	X	-.008	6.292
8	MP BETA2	X	-.008	1.708
9	MP GAMMA2	Y	.008	6.917
10	MP GAMMA2	Y	.008	1.083
11	MP GAMMA2	X	-.005	6.917
12	MP GAMMA2	X	-.005	1.083
13	MP GAMMA4	Y	.009	6.917
14	MP GAMMA4	Y	.009	1.083
15	MP GAMMA4	X	-.005	6.917
16	MP GAMMA4	X	-.005	1.083
17	MP ALPHA1	Y	.004	5.875
18	MP ALPHA1	Y	.004	2.125
19	MP ALPHA1	X	-.003	5.875
20	MP ALPHA1	X	-.003	2.125
21	MP BETA1	Y	.004	5.875
22	MP BETA1	Y	.004	2.125
23	MP BETA1	X	-.003	5.875
24	MP BETA1	X	-.003	2.125
25	MP GAMMA1	Y	.003	5.875
26	MP GAMMA1	Y	.003	2.125
27	MP GAMMA1	X	-.002	5.875
28	MP GAMMA1	X	-.002	2.125

Member Point Loads (BLC 20 : Maintanence (150)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
29	MP ALPHA3	Y	.014	6.5
30	MP ALPHA3	Y	.014	1.5
31	MP ALPHA3	X	-.008	6.5
32	MP ALPHA3	X	-.008	1.5
33	MP BETA3	Y	.014	6.5
34	MP BETA3	Y	.014	1.5
35	MP BETA3	X	-.008	6.5
36	MP BETA3	X	-.008	1.5
37	MP GAMMA3	Y	.007	6.917
38	MP GAMMA3	Y	.007	1.083
39	MP GAMMA3	X	-.004	6.917
40	MP GAMMA3	X	-.004	1.083
41	MP ALPHA4	Y	.005	6.5
42	MP ALPHA4	Y	.005	1.5
43	MP ALPHA4	X	-.003	6.5
44	MP ALPHA4	X	-.003	1.5
45	MP BETA4	Y	.005	6.5
46	MP BETA4	Y	.005	1.5
47	MP BETA4	X	-.003	6.5
48	MP BETA4	X	-.003	1.5
49	MP ALPHA1	Y	.002	4
50	MP ALPHA1	X	-.001	4
51	MP BETA1	Y	.002	4
52	MP BETA1	X	-.001	4
53	MP GAMMA1	Y	.000811	4
54	MP GAMMA1	X	-.000468	4
55	MP ALPHA2	Y	.006	4
56	MP ALPHA2	X	-.003	4
57	MP BETA2	Y	.006	4
58	MP BETA2	X	-.003	4
59	MP GAMMA2	Y	.004	4
60	MP GAMMA2	X	-.002	4
61	MP ALPHA3	Y	.006	4
62	MP ALPHA3	X	-.003	4
63	MP BETA3	Y	.006	4
64	MP BETA3	X	-.003	4
65	MP GAMMA3	Y	.004	4
66	MP GAMMA3	X	-.002	4
67	MP ALPHA4	Y	.002	4
68	MP ALPHA4	X	-.001	4
69	MP BETA4	Y	.002	4
70	MP BETA4	X	-.001	4
71	MP GAMMA4	Y	.002	4
72	MP GAMMA4	X	-.000904	4
73	MP ALPHA2	Y	.004	4
74	MP ALPHA2	X	-.003	4
75	MP BETA2	Y	.004	4
76	MP BETA2	X	-.003	4
77	MP GAMMA2	Y	.003	4
78	MP GAMMA2	X	-.002	4
79	MP ALPHA3	Y	.004	4
80	MP ALPHA3	X	-.002	4
81	MP BETA3	Y	.004	4
82	MP BETA3	X	-.002	4
83	MP GAMMA3	Y	.003	4
84	MP GAMMA3	X	-.001	4
85	MP ALPHA1	Y	.00063	4

Member Point Loads (BLC 20 : Maintanence (150)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
86	MP ALPHA1	X	-.000364	4
87	MP BETA1	Y	.00063	4
88	MP BETA1	X	-.000364	4
89	MP GAMMA1	Y	.000554	4
90	MP GAMMA1	X	-.00032	4
91	MP ALPHA3	Y	.002	4
92	MP ALPHA3	X	-.001	4
93	MP ALPHA2	Y	.003	4
94	MP ALPHA2	X	-.002	4
95	MP ALPHA4	Y	.003	4
96	MP ALPHA4	X	-.002	4

Member Point Loads (BLC 21 : Maintanence (180))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	.018	6.292
2	MP ALPHA2	Y	.018	1.708
3	MP BETA2	Y	.01	6.292
4	MP BETA2	Y	.01	1.708
5	MP GAMMA2	Y	.013	6.917
6	MP GAMMA2	Y	.013	1.083
7	MP GAMMA4	Y	.013	6.917
8	MP GAMMA4	Y	.013	1.083
9	MP ALPHA1	Y	.006	5.875
10	MP ALPHA1	Y	.006	2.125
11	MP BETA1	Y	.004	5.875
12	MP BETA1	Y	.004	2.125
13	MP GAMMA1	Y	.004	5.875
14	MP GAMMA1	Y	.004	2.125
15	MP ALPHA3	Y	.019	6.5
16	MP ALPHA3	Y	.019	1.5
17	MP BETA3	Y	.01	6.5
18	MP BETA3	Y	.01	1.5
19	MP GAMMA3	Y	.011	6.917
20	MP GAMMA3	Y	.011	1.083
21	MP ALPHA4	Y	.006	6.5
22	MP ALPHA4	Y	.006	1.5
23	MP BETA4	Y	.005	6.5
24	MP BETA4	Y	.005	1.5
25	MP ALPHA1	Y	.003	4
26	MP BETA1	Y	.001	4
27	MP GAMMA1	Y	.001	4
28	MP ALPHA2	Y	.008	4
29	MP BETA2	Y	.005	4
30	MP GAMMA2	Y	.005	4
31	MP ALPHA3	Y	.008	4
32	MP BETA3	Y	.005	4
33	MP GAMMA3	Y	.005	4
34	MP ALPHA4	Y	.003	4
35	MP BETA4	Y	.002	4
36	MP GAMMA4	Y	.002	4
37	MP ALPHA2	Y	.005	4
38	MP BETA2	Y	.004	4
39	MP GAMMA2	Y	.004	4
40	MP ALPHA3	Y	.005	4
41	MP BETA3	Y	.003	4
42	MP GAMMA3	Y	.003	4

Member Point Loads (BLC 21 : Maintanence (180)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
43	MP ALPHA1	Y	.000757	4
44	MP BETA1	Y	.000669	4
45	MP GAMMA1	Y	.000669	4
46	MP ALPHA3	Y	.002	4
47	MP ALPHA2	Y	.003	4
48	MP ALPHA4	Y	.003	4

Member Point Loads (BLC 22 : Maintanence (210))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	.013	6.292
2	MP ALPHA2	Y	.013	1.708
3	MP ALPHA2	X	.008	6.292
4	MP ALPHA2	X	.008	1.708
5	MP BETA2	Y	.006	6.292
6	MP BETA2	Y	.006	1.708
7	MP BETA2	X	.003	6.292
8	MP BETA2	X	.003	1.708
9	MP GAMMA2	Y	.018	6.917
10	MP GAMMA2	Y	.018	1.083
11	MP GAMMA2	X	.01	6.917
12	MP GAMMA2	X	.01	1.083
13	MP GAMMA4	Y	.014	6.917
14	MP GAMMA4	Y	.014	1.083
15	MP GAMMA4	X	.008	6.917
16	MP GAMMA4	X	.008	1.083
17	MP ALPHA1	Y	.004	5.875
18	MP ALPHA1	Y	.004	2.125
19	MP ALPHA1	X	.003	5.875
20	MP ALPHA1	X	.003	2.125
21	MP BETA1	Y	.003	5.875
22	MP BETA1	Y	.003	2.125
23	MP BETA1	X	.002	5.875
24	MP BETA1	X	.002	2.125
25	MP GAMMA1	Y	.004	5.875
26	MP GAMMA1	Y	.004	2.125
27	MP GAMMA1	X	.003	5.875
28	MP GAMMA1	X	.003	2.125
29	MP ALPHA3	Y	.014	6.5
30	MP ALPHA3	Y	.014	1.5
31	MP ALPHA3	X	.008	6.5
32	MP ALPHA3	X	.008	1.5
33	MP BETA3	Y	.006	6.5
34	MP BETA3	Y	.006	1.5
35	MP BETA3	X	.003	6.5
36	MP BETA3	X	.003	1.5
37	MP GAMMA3	Y	.016	6.917
38	MP GAMMA3	Y	.016	1.083
39	MP GAMMA3	X	.009	6.917
40	MP GAMMA3	X	.009	1.083
41	MP ALPHA4	Y	.005	6.5
42	MP ALPHA4	Y	.005	1.5
43	MP ALPHA4	X	.003	6.5
44	MP ALPHA4	X	.003	1.5
45	MP BETA4	Y	.004	6.5
46	MP BETA4	Y	.004	1.5
47	MP BETA4	X	.003	6.5

Member Point Loads (BLC 22 : Maintanence (210)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
48	MP BETA4	X	.003	1.5
49	MP ALPHA1	Y	.002	4
50	MP ALPHA1	X	.001	4
51	MP BETA1	Y	.000811	4
52	MP BETA1	X	.000468	4
53	MP GAMMA1	Y	.002	4
54	MP GAMMA1	X	.001	4
55	MP ALPHA2	Y	.006	4
56	MP ALPHA2	X	.003	4
57	MP BETA2	Y	.004	4
58	MP BETA2	X	.002	4
59	MP GAMMA2	Y	.006	4
60	MP GAMMA2	X	.003	4
61	MP ALPHA3	Y	.006	4
62	MP ALPHA3	X	.003	4
63	MP BETA3	Y	.004	4
64	MP BETA3	X	.002	4
65	MP GAMMA3	Y	.006	4
66	MP GAMMA3	X	.003	4
67	MP ALPHA4	Y	.002	4
68	MP ALPHA4	X	.001	4
69	MP BETA4	Y	.002	4
70	MP BETA4	X	.000904	4
71	MP GAMMA4	Y	.002	4
72	MP GAMMA4	X	.001	4
73	MP ALPHA2	Y	.004	4
74	MP ALPHA2	X	.003	4
75	MP BETA2	Y	.003	4
76	MP BETA2	X	.002	4
77	MP GAMMA2	Y	.004	4
78	MP GAMMA2	X	.003	4
79	MP ALPHA3	Y	.004	4
80	MP ALPHA3	X	.002	4
81	MP BETA3	Y	.003	4
82	MP BETA3	X	.001	4
83	MP GAMMA3	Y	.004	4
84	MP GAMMA3	X	.002	4
85	MP ALPHA1	Y	.00063	4
86	MP ALPHA1	X	.000364	4
87	MP BETA1	Y	.000554	4
88	MP BETA1	X	.00032	4
89	MP GAMMA1	Y	.00063	4
90	MP GAMMA1	X	.000364	4
91	MP ALPHA3	Y	.002	4
92	MP ALPHA3	X	.001	4
93	MP ALPHA2	Y	.003	4
94	MP ALPHA2	X	.002	4
95	MP ALPHA4	Y	.003	4
96	MP ALPHA4	X	.002	4

Member Point Loads (BLC 23 : Maintanence (240))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	.005	6.292
2	MP ALPHA2	Y	.005	1.708
3	MP ALPHA2	X	.008	6.292
4	MP ALPHA2	X	.008	1.708

Member Point Loads (BLC 23 : Maintanence (240)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
5	MP BETA2	Y	.005	6.292
6	MP BETA2	Y	.005	1.708
7	MP BETA2	X	.008	6.292
8	MP BETA2	X	.008	1.708
9	MP GAMMA2	Y	.012	6.917
10	MP GAMMA2	Y	.012	1.083
11	MP GAMMA2	X	.021	6.917
12	MP GAMMA2	X	.021	1.083
13	MP GAMMA4	Y	.009	6.917
14	MP GAMMA4	Y	.009	1.083
15	MP GAMMA4	X	.016	6.917
16	MP GAMMA4	X	.016	1.083
17	MP ALPHA1	Y	.002	5.875
18	MP ALPHA1	Y	.002	2.125
19	MP ALPHA1	X	.003	5.875
20	MP ALPHA1	X	.003	2.125
21	MP BETA1	Y	.002	5.875
22	MP BETA1	Y	.002	2.125
23	MP BETA1	X	.003	5.875
24	MP BETA1	X	.003	2.125
25	MP GAMMA1	Y	.003	5.875
26	MP GAMMA1	Y	.003	2.125
27	MP GAMMA1	X	.005	5.875
28	MP GAMMA1	X	.005	2.125
29	MP ALPHA3	Y	.005	6.5
30	MP ALPHA3	Y	.005	1.5
31	MP ALPHA3	X	.008	6.5
32	MP ALPHA3	X	.008	1.5
33	MP BETA3	Y	.005	6.5
34	MP BETA3	Y	.005	1.5
35	MP BETA3	X	.008	6.5
36	MP BETA3	X	.008	1.5
37	MP GAMMA3	Y	.011	6.917
38	MP GAMMA3	Y	.011	1.083
39	MP GAMMA3	X	.019	6.917
40	MP GAMMA3	X	.019	1.083
41	MP ALPHA4	Y	.003	6.5
42	MP ALPHA4	Y	.003	1.5
43	MP ALPHA4	X	.005	6.5
44	MP ALPHA4	X	.005	1.5
45	MP BETA4	Y	.003	6.5
46	MP BETA4	Y	.003	1.5
47	MP BETA4	X	.005	6.5
48	MP BETA4	X	.005	1.5
49	MP ALPHA1	Y	.000688	4
50	MP ALPHA1	X	.001	4
51	MP BETA1	Y	.000688	4
52	MP BETA1	X	.001	4
53	MP GAMMA1	Y	.001	4
54	MP GAMMA1	X	.002	4
55	MP ALPHA2	Y	.003	4
56	MP ALPHA2	X	.005	4
57	MP BETA2	Y	.003	4
58	MP BETA2	X	.005	4
59	MP GAMMA2	Y	.004	4
60	MP GAMMA2	X	.007	4
61	MP ALPHA3	Y	.003	4

Member Point Loads (BLC 23 : Maintanence (240)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
62	MP ALPHA3	X	.005	4
63	MP BETA3	Y	.003	4
64	MP BETA3	X	.005	4
65	MP GAMMA3	Y	.004	4
66	MP GAMMA3	X	.007	4
67	MP ALPHA4	Y	.001	4
68	MP ALPHA4	X	.002	4
69	MP BETA4	Y	.001	4
70	MP BETA4	X	.002	4
71	MP GAMMA4	Y	.001	4
72	MP GAMMA4	X	.002	4
73	MP ALPHA2	Y	.002	4
74	MP ALPHA2	X	.004	4
75	MP BETA2	Y	.002	4
76	MP BETA2	X	.004	4
77	MP GAMMA2	Y	.003	4
78	MP GAMMA2	X	.005	4
79	MP ALPHA3	Y	.002	4
80	MP ALPHA3	X	.003	4
81	MP BETA3	Y	.002	4
82	MP BETA3	X	.003	4
83	MP GAMMA3	Y	.003	4
84	MP GAMMA3	X	.004	4
85	MP ALPHA1	Y	.000334	4
86	MP ALPHA1	X	.000579	4
87	MP BETA1	Y	.000334	4
88	MP BETA1	X	.000579	4
89	MP GAMMA1	Y	.000378	4
90	MP GAMMA1	X	.000655	4
91	MP ALPHA3	Y	.001	4
92	MP ALPHA3	X	.002	4
93	MP ALPHA2	Y	.002	4
94	MP ALPHA2	X	.003	4
95	MP ALPHA4	Y	.002	4
96	MP ALPHA4	X	.003	4

Member Point Loads (BLC 24 : Maintanence (270))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	X	.007	6.292
2	MP ALPHA2	X	.007	1.708
3	MP BETA2	X	.015	6.292
4	MP BETA2	X	.015	1.708
5	MP GAMMA2	X	.021	6.917
6	MP GAMMA2	X	.021	1.083
7	MP GAMMA4	X	.016	6.917
8	MP GAMMA4	X	.016	1.083
9	MP ALPHA1	X	.003	5.875
10	MP ALPHA1	X	.003	2.125
11	MP BETA1	X	.005	5.875
12	MP BETA1	X	.005	2.125
13	MP GAMMA1	X	.005	5.875
14	MP GAMMA1	X	.005	2.125
15	MP ALPHA3	X	.006	6.5
16	MP ALPHA3	X	.006	1.5
17	MP BETA3	X	.016	6.5
18	MP BETA3	X	.016	1.5

Member Point Loads (BLC 24 : Maintanence (270)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
19	MP GAMMA3	X	.019	6.917
20	MP GAMMA3	X	.019	1.083
21	MP ALPHA4	X	.005	6.5
22	MP ALPHA4	X	.005	1.5
23	MP BETA4	X	.006	6.5
24	MP BETA4	X	.006	1.5
25	MP ALPHA1	X	.000936	4
26	MP BETA1	X	.002	4
27	MP GAMMA1	X	.002	4
28	MP ALPHA2	X	.005	4
29	MP BETA2	X	.007	4
30	MP GAMMA2	X	.007	4
31	MP ALPHA3	X	.005	4
32	MP BETA3	X	.007	4
33	MP GAMMA3	X	.007	4
34	MP ALPHA4	X	.002	4
35	MP BETA4	X	.002	4
36	MP GAMMA4	X	.002	4
37	MP ALPHA2	X	.004	4
38	MP BETA2	X	.005	4
39	MP GAMMA2	X	.005	4
40	MP ALPHA3	X	.003	4
41	MP BETA3	X	.005	4
42	MP GAMMA3	X	.005	4
43	MP ALPHA1	X	.000639	4
44	MP BETA1	X	.000727	4
45	MP GAMMA1	X	.000727	4
46	MP ALPHA3	X	.003	4
47	MP ALPHA2	X	.004	4
48	MP ALPHA4	X	.004	4

Member Point Loads (BLC 25 : Maintanence (300))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	-.005	6.292
2	MP ALPHA2	Y	-.005	1.708
3	MP ALPHA2	X	.008	6.292
4	MP ALPHA2	X	.008	1.708
5	MP BETA2	Y	-.009	6.292
6	MP BETA2	Y	-.009	1.708
7	MP BETA2	X	.016	6.292
8	MP BETA2	X	.016	1.708
9	MP GAMMA2	Y	-.006	6.917
10	MP GAMMA2	Y	-.006	1.083
11	MP GAMMA2	X	.011	6.917
12	MP GAMMA2	X	.011	1.083
13	MP GAMMA4	Y	-.006	6.917
14	MP GAMMA4	Y	-.006	1.083
15	MP GAMMA4	X	.011	6.917
16	MP GAMMA4	X	.011	1.083
17	MP ALPHA1	Y	-.002	5.875
18	MP ALPHA1	Y	-.002	2.125
19	MP ALPHA1	X	.003	5.875
20	MP ALPHA1	X	.003	2.125
21	MP BETA1	Y	-.003	5.875
22	MP BETA1	Y	-.003	2.125
23	MP BETA1	X	.005	5.875

Member Point Loads (BLC 25 : Maintanence (300)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
24	MP BETA1	X	.005	2.125
25	MP GAMMA1	Y	-.002	5.875
26	MP GAMMA1	Y	-.002	2.125
27	MP GAMMA1	X	.003	5.875
28	MP GAMMA1	X	.003	2.125
29	MP ALPHA3	Y	-.005	6.5
30	MP ALPHA3	Y	-.005	1.5
31	MP ALPHA3	X	.008	6.5
32	MP ALPHA3	X	.008	1.5
33	MP BETA3	Y	-.009	6.5
34	MP BETA3	Y	-.009	1.5
35	MP BETA3	X	.016	6.5
36	MP BETA3	X	.016	1.5
37	MP GAMMA3	Y	-.006	6.917
38	MP GAMMA3	Y	-.006	1.083
39	MP GAMMA3	X	.01	6.917
40	MP GAMMA3	X	.01	1.083
41	MP ALPHA4	Y	-.003	6.5
42	MP ALPHA4	Y	-.003	1.5
43	MP ALPHA4	X	.005	6.5
44	MP ALPHA4	X	.005	1.5
45	MP BETA4	Y	-.003	6.5
46	MP BETA4	Y	-.003	1.5
47	MP BETA4	X	.005	6.5
48	MP BETA4	X	.005	1.5
49	MP ALPHA1	Y	-.000688	4
50	MP ALPHA1	X	.001	4
51	MP BETA1	Y	-.001	4
52	MP BETA1	X	.002	4
53	MP GAMMA1	Y	-.000688	4
54	MP GAMMA1	X	.001	4
55	MP ALPHA2	Y	-.003	4
56	MP ALPHA2	X	.005	4
57	MP BETA2	Y	-.004	4
58	MP BETA2	X	.007	4
59	MP GAMMA2	Y	-.003	4
60	MP GAMMA2	X	.005	4
61	MP ALPHA3	Y	-.003	4
62	MP ALPHA3	X	.005	4
63	MP BETA3	Y	-.004	4
64	MP BETA3	X	.007	4
65	MP GAMMA3	Y	-.003	4
66	MP GAMMA3	X	.005	4
67	MP ALPHA4	Y	-.001	4
68	MP ALPHA4	X	.002	4
69	MP BETA4	Y	-.001	4
70	MP BETA4	X	.002	4
71	MP GAMMA4	Y	-.001	4
72	MP GAMMA4	X	.002	4
73	MP ALPHA2	Y	-.002	4
74	MP ALPHA2	X	.004	4
75	MP BETA2	Y	-.003	4
76	MP BETA2	X	.005	4
77	MP GAMMA2	Y	-.002	4
78	MP GAMMA2	X	.004	4
79	MP ALPHA3	Y	-.002	4
80	MP ALPHA3	X	.003	4

Member Point Loads (BLC 25 : Maintanence (300)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
81	MP BETA3	Y	-.003	4
82	MP BETA3	X	.004	4
83	MP GAMMA3	Y	-.002	4
84	MP GAMMA3	X	.003	4
85	MP ALPHA1	Y	-.000334	4
86	MP ALPHA1	X	.000579	4
87	MP BETA1	Y	-.000378	4
88	MP BETA1	X	.000655	4
89	MP GAMMA1	Y	-.000334	4
90	MP GAMMA1	X	.000579	4
91	MP ALPHA3	Y	-.001	4
92	MP ALPHA3	X	.002	4
93	MP ALPHA2	Y	-.002	4
94	MP ALPHA2	X	.003	4
95	MP ALPHA4	Y	-.002	4
96	MP ALPHA4	X	.003	4

Member Point Loads (BLC 26 : Maintanence (330))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	-.013	6.292
2	MP ALPHA2	Y	-.013	1.708
3	MP ALPHA2	X	.008	6.292
4	MP ALPHA2	X	.008	1.708
5	MP BETA2	Y	-.013	6.292
6	MP BETA2	Y	-.013	1.708
7	MP BETA2	X	.008	6.292
8	MP BETA2	X	.008	1.708
9	MP GAMMA2	Y	-.008	6.917
10	MP GAMMA2	Y	-.008	1.083
11	MP GAMMA2	X	.005	6.917
12	MP GAMMA2	X	.005	1.083
13	MP GAMMA4	Y	-.009	6.917
14	MP GAMMA4	Y	-.009	1.083
15	MP GAMMA4	X	.005	6.917
16	MP GAMMA4	X	.005	1.083
17	MP ALPHA1	Y	-.004	5.875
18	MP ALPHA1	Y	-.004	2.125
19	MP ALPHA1	X	.003	5.875
20	MP ALPHA1	X	.003	2.125
21	MP BETA1	Y	-.004	5.875
22	MP BETA1	Y	-.004	2.125
23	MP BETA1	X	.003	5.875
24	MP BETA1	X	.003	2.125
25	MP GAMMA1	Y	-.003	5.875
26	MP GAMMA1	Y	-.003	2.125
27	MP GAMMA1	X	.002	5.875
28	MP GAMMA1	X	.002	2.125
29	MP ALPHA3	Y	-.014	6.5
30	MP ALPHA3	Y	-.014	1.5
31	MP ALPHA3	X	.008	6.5
32	MP ALPHA3	X	.008	1.5
33	MP BETA3	Y	-.014	6.5
34	MP BETA3	Y	-.014	1.5
35	MP BETA3	X	.008	6.5
36	MP BETA3	X	.008	1.5
37	MP GAMMA3	Y	-.007	6.917

Member Point Loads (BLC 26 : Maintanence (330)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
38	MP GAMMA3	Y	-.007	1.083
39	MP GAMMA3	X	.004	6.917
40	MP GAMMA3	X	.004	1.083
41	MP ALPHA4	Y	-.005	6.5
42	MP ALPHA4	Y	-.005	1.5
43	MP ALPHA4	X	.003	6.5
44	MP ALPHA4	X	.003	1.5
45	MP BETA4	Y	-.005	6.5
46	MP BETA4	Y	-.005	1.5
47	MP BETA4	X	.003	6.5
48	MP BETA4	X	.003	1.5
49	MP ALPHA1	Y	-.002	4
50	MP ALPHA1	X	.001	4
51	MP BETA1	Y	-.002	4
52	MP BETA1	X	.001	4
53	MP GAMMA1	Y	-.000811	4
54	MP GAMMA1	X	.000468	4
55	MP ALPHA2	Y	-.006	4
56	MP ALPHA2	X	.003	4
57	MP BETA2	Y	-.006	4
58	MP BETA2	X	.003	4
59	MP GAMMA2	Y	-.004	4
60	MP GAMMA2	X	.002	4
61	MP ALPHA3	Y	-.006	4
62	MP ALPHA3	X	.003	4
63	MP BETA3	Y	-.006	4
64	MP BETA3	X	.003	4
65	MP GAMMA3	Y	-.004	4
66	MP GAMMA3	X	.002	4
67	MP ALPHA4	Y	-.002	4
68	MP ALPHA4	X	.001	4
69	MP BETA4	Y	-.002	4
70	MP BETA4	X	.001	4
71	MP GAMMA4	Y	-.002	4
72	MP GAMMA4	X	.000904	4
73	MP ALPHA2	Y	-.004	4
74	MP ALPHA2	X	.003	4
75	MP BETA2	Y	-.004	4
76	MP BETA2	X	.003	4
77	MP GAMMA2	Y	-.003	4
78	MP GAMMA2	X	.002	4
79	MP ALPHA3	Y	-.004	4
80	MP ALPHA3	X	.002	4
81	MP BETA3	Y	-.004	4
82	MP BETA3	X	.002	4
83	MP GAMMA3	Y	-.003	4
84	MP GAMMA3	X	.001	4
85	MP ALPHA1	Y	-.00063	4
86	MP ALPHA1	X	.000364	4
87	MP BETA1	Y	-.00063	4
88	MP BETA1	X	.000364	4
89	MP GAMMA1	Y	-.000554	4
90	MP GAMMA1	X	.00032	4
91	MP ALPHA3	Y	-.002	4
92	MP ALPHA3	X	.001	4
93	MP ALPHA2	Y	-.003	4
94	MP ALPHA2	X	.002	4

Member Point Loads (BLC 26 : Maintanence (330)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
95	MP ALPHA4	Y	-.003	4
96	MP ALPHA4	X	.002	4

Member Point Loads (BLC 27 : Ice Dead Load)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Z	-.146	6.292
2	MP ALPHA2	Z	-.146	1.708
3	MP BETA2	Z	-.146	6.292
4	MP BETA2	Z	-.146	1.708
5	MP GAMMA2	Z	-.191	6.917
6	MP GAMMA2	Z	-.191	1.083
7	MP GAMMA4	Z	-.158	6.917
8	MP GAMMA4	Z	-.158	1.083
9	MP ALPHA1	Z	-.069	5.875
10	MP ALPHA1	Z	-.069	2.125
11	MP BETA1	Z	-.069	5.875
12	MP BETA1	Z	-.069	2.125
13	MP GAMMA1	Z	-.069	5.875
14	MP GAMMA1	Z	-.069	2.125
15	MP ALPHA3	Z	-.151	6.5
16	MP ALPHA3	Z	-.151	1.5
17	MP BETA3	Z	-.151	6.5
18	MP BETA3	Z	-.151	1.5
19	MP GAMMA3	Z	-.181	6.917
20	MP GAMMA3	Z	-.181	1.083
21	MP ALPHA4	Z	-.115	6.5
22	MP ALPHA4	Z	-.115	1.5
23	MP BETA4	Z	-.115	6.5
24	MP BETA4	Z	-.115	1.5
25	MP ALPHA1	Z	-.034	4
26	MP BETA1	Z	-.034	4
27	MP GAMMA1	Z	-.034	4
28	MP ALPHA2	Z	-.089	4
29	MP BETA2	Z	-.089	4
30	MP GAMMA2	Z	-.089	4
31	MP ALPHA3	Z	-.089	4
32	MP BETA3	Z	-.089	4
33	MP GAMMA3	Z	-.089	4
34	MP ALPHA4	Z	-.055	4
35	MP BETA4	Z	-.055	4
36	MP GAMMA4	Z	-.055	4
37	MP ALPHA2	Z	-.078	4
38	MP BETA2	Z	-.078	4
39	MP GAMMA2	Z	-.078	4
40	MP ALPHA3	Z	-.068	4
41	MP BETA3	Z	-.068	4
42	MP GAMMA3	Z	-.068	4
43	MP ALPHA1	Z	-.02	4
44	MP BETA1	Z	-.02	4
45	MP GAMMA1	Z	-.02	4
46	MP ALPHA3	Z	-.089	4
47	MP ALPHA2	Z	-.115	4
48	MP ALPHA4	Z	-.115	4

Member Point Loads (BLC 28 : Ice Wind Load (0))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]

Member Point Loads (BLC 28 : Ice Wind Load (0)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	-.056	6.292
2	MP ALPHA2	Y	-.056	1.708
3	MP BETA2	Y	-.034	6.292
4	MP BETA2	Y	-.034	1.708
5	MP GAMMA2	Y	-.044	6.917
6	MP GAMMA2	Y	-.044	1.083
7	MP GAMMA4	Y	-.044	6.917
8	MP GAMMA4	Y	-.044	1.083
9	MP ALPHA1	Y	-.021	5.875
10	MP ALPHA1	Y	-.021	2.125
11	MP BETA1	Y	-.016	5.875
12	MP BETA1	Y	-.016	2.125
13	MP GAMMA1	Y	-.016	5.875
14	MP GAMMA1	Y	-.016	2.125
15	MP ALPHA3	Y	-.058	6.5
16	MP ALPHA3	Y	-.058	1.5
17	MP BETA3	Y	-.034	6.5
18	MP BETA3	Y	-.034	1.5
19	MP GAMMA3	Y	-.04	6.917
20	MP GAMMA3	Y	-.04	1.083
21	MP ALPHA4	Y	-.021	6.5
22	MP ALPHA4	Y	-.021	1.5
23	MP BETA4	Y	-.019	6.5
24	MP BETA4	Y	-.019	1.5
25	MP ALPHA1	Y	-.008	4
26	MP BETA1	Y	-.005	4
27	MP GAMMA1	Y	-.005	4
28	MP ALPHA2	Y	-.018	4
29	MP BETA2	Y	-.014	4
30	MP GAMMA2	Y	-.014	4
31	MP ALPHA3	Y	-.018	4
32	MP BETA3	Y	-.014	4
33	MP GAMMA3	Y	-.014	4
34	MP ALPHA4	Y	-.017	4
35	MP BETA4	Y	-.015	4
36	MP GAMMA4	Y	-.015	4
37	MP ALPHA2	Y	-.013	4
38	MP BETA2	Y	-.011	4
39	MP GAMMA2	Y	-.011	4
40	MP ALPHA3	Y	-.013	4
41	MP BETA3	Y	-.009	4
42	MP GAMMA3	Y	-.009	4
43	MP ALPHA1	Y	-.005	4
44	MP BETA1	Y	-.004	4
45	MP GAMMA1	Y	-.004	4
46	MP ALPHA3	Y	-.014	4
47	MP ALPHA2	Y	-.019	4
48	MP ALPHA4	Y	-.019	4

Member Point Loads (BLC 29 : Ice Wind Load (30))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	-.042	6.292
2	MP ALPHA2	Y	-.042	1.708
3	MP ALPHA2	X	-.024	6.292
4	MP ALPHA2	X	-.024	1.708
5	MP BETA2	Y	-.023	6.292

Member Point Loads (BLC 29 : Ice Wind Load (30)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
6	MP BETA2	Y	-.023	1.708
7	MP BETA2	X	-.013	6.292
8	MP BETA2	X	-.013	1.708
9	MP GAMMA2	Y	-.055	6.917
10	MP GAMMA2	Y	-.055	1.083
11	MP GAMMA2	X	-.032	6.917
12	MP GAMMA2	X	-.032	1.083
13	MP GAMMA4	Y	-.047	6.917
14	MP GAMMA4	Y	-.047	1.083
15	MP GAMMA4	X	-.027	6.917
16	MP GAMMA4	X	-.027	1.083
17	MP ALPHA1	Y	-.016	5.875
18	MP ALPHA1	Y	-.016	2.125
19	MP ALPHA1	X	-.009	5.875
20	MP ALPHA1	X	-.009	2.125
21	MP BETA1	Y	-.012	5.875
22	MP BETA1	Y	-.012	2.125
23	MP BETA1	X	-.007	5.875
24	MP BETA1	X	-.007	2.125
25	MP GAMMA1	Y	-.016	5.875
26	MP GAMMA1	Y	-.016	2.125
27	MP GAMMA1	X	-.009	5.875
28	MP GAMMA1	X	-.009	2.125
29	MP ALPHA3	Y	-.043	6.5
30	MP ALPHA3	Y	-.043	1.5
31	MP ALPHA3	X	-.025	6.5
32	MP ALPHA3	X	-.025	1.5
33	MP BETA3	Y	-.022	6.5
34	MP BETA3	Y	-.022	1.5
35	MP BETA3	X	-.013	6.5
36	MP BETA3	X	-.013	1.5
37	MP GAMMA3	Y	-.051	6.917
38	MP GAMMA3	Y	-.051	1.083
39	MP GAMMA3	X	-.029	6.917
40	MP GAMMA3	X	-.029	1.083
41	MP ALPHA4	Y	-.018	6.5
42	MP ALPHA4	Y	-.018	1.5
43	MP ALPHA4	X	-.01	6.5
44	MP ALPHA4	X	-.01	1.5
45	MP BETA4	Y	-.016	6.5
46	MP BETA4	Y	-.016	1.5
47	MP BETA4	X	-.009	6.5
48	MP BETA4	X	-.009	1.5
49	MP ALPHA1	Y	-.006	4
50	MP ALPHA1	X	-.003	4
51	MP BETA1	Y	-.003	4
52	MP BETA1	X	-.002	4
53	MP GAMMA1	Y	-.006	4
54	MP GAMMA1	X	-.003	4
55	MP ALPHA2	Y	-.014	4
56	MP ALPHA2	X	-.008	4
57	MP BETA2	Y	-.011	4
58	MP BETA2	X	-.006	4
59	MP GAMMA2	Y	-.014	4
60	MP GAMMA2	X	-.008	4
61	MP ALPHA3	Y	-.014	4
62	MP ALPHA3	X	-.008	4

Member Point Loads (BLC 29 : Ice Wind Load (30)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
63	MP BETA3	Y	-.011	4
64	MP BETA3	X	-.006	4
65	MP GAMMA3	Y	-.014	4
66	MP GAMMA3	X	-.008	4
67	MP ALPHA4	Y	-.014	4
68	MP ALPHA4	X	-.008	4
69	MP BETA4	Y	-.012	4
70	MP BETA4	X	-.007	4
71	MP GAMMA4	Y	-.014	4
72	MP GAMMA4	X	-.008	4
73	MP ALPHA2	Y	-.011	4
74	MP ALPHA2	X	-.006	4
75	MP BETA2	Y	-.009	4
76	MP BETA2	X	-.005	4
77	MP GAMMA2	Y	-.011	4
78	MP GAMMA2	X	-.006	4
79	MP ALPHA3	Y	-.01	4
80	MP ALPHA3	X	-.006	4
81	MP BETA3	Y	-.007	4
82	MP BETA3	X	-.004	4
83	MP GAMMA3	Y	-.01	4
84	MP GAMMA3	X	-.006	4
85	MP ALPHA1	Y	-.004	4
86	MP ALPHA1	X	-.002	4
87	MP BETA1	Y	-.004	4
88	MP BETA1	X	-.002	4
89	MP GAMMA1	Y	-.004	4
90	MP GAMMA1	X	-.002	4
91	MP ALPHA3	Y	-.012	4
92	MP ALPHA3	X	-.007	4
93	MP ALPHA2	Y	-.016	4
94	MP ALPHA2	X	-.009	4
95	MP ALPHA4	Y	-.016	4
96	MP ALPHA4	X	-.009	4

Member Point Loads (BLC 30 : Ice Wind Load (60))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	-.017	6.292
2	MP ALPHA2	Y	-.017	1.708
3	MP ALPHA2	X	-.029	6.292
4	MP ALPHA2	X	-.029	1.708
5	MP BETA2	Y	-.017	6.292
6	MP BETA2	Y	-.017	1.708
7	MP BETA2	X	-.029	6.292
8	MP BETA2	X	-.029	1.708
9	MP GAMMA2	Y	-.037	6.917
10	MP GAMMA2	Y	-.037	1.083
11	MP GAMMA2	X	-.064	6.917
12	MP GAMMA2	X	-.064	1.083
13	MP GAMMA4	Y	-.029	6.917
14	MP GAMMA4	Y	-.029	1.083
15	MP GAMMA4	X	-.051	6.917
16	MP GAMMA4	X	-.051	1.083
17	MP ALPHA1	Y	-.008	5.875
18	MP ALPHA1	Y	-.008	2.125
19	MP ALPHA1	X	-.014	5.875

Member Point Loads (BLC 30 : Ice Wind Load (60)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
20	MP ALPHA1	X	-.014	2.125
21	MP BETA1	Y	-.008	5.875
22	MP BETA1	Y	-.008	2.125
23	MP BETA1	X	-.014	5.875
24	MP BETA1	X	-.014	2.125
25	MP GAMMA1	Y	-.01	5.875
26	MP GAMMA1	Y	-.01	2.125
27	MP GAMMA1	X	-.018	5.875
28	MP GAMMA1	X	-.018	2.125
29	MP ALPHA3	Y	-.017	6.5
30	MP ALPHA3	Y	-.017	1.5
31	MP ALPHA3	X	-.029	6.5
32	MP ALPHA3	X	-.029	1.5
33	MP BETA3	Y	-.017	6.5
34	MP BETA3	Y	-.017	1.5
35	MP BETA3	X	-.029	6.5
36	MP BETA3	X	-.029	1.5
37	MP GAMMA3	Y	-.034	6.917
38	MP GAMMA3	Y	-.034	1.083
39	MP GAMMA3	X	-.059	6.917
40	MP GAMMA3	X	-.059	1.083
41	MP ALPHA4	Y	-.009	6.5
42	MP ALPHA4	Y	-.009	1.5
43	MP ALPHA4	X	-.016	6.5
44	MP ALPHA4	X	-.016	1.5
45	MP BETA4	Y	-.009	6.5
46	MP BETA4	Y	-.009	1.5
47	MP BETA4	X	-.016	6.5
48	MP BETA4	X	-.016	1.5
49	MP ALPHA1	Y	-.002	4
50	MP ALPHA1	X	-.004	4
51	MP BETA1	Y	-.002	4
52	MP BETA1	X	-.004	4
53	MP GAMMA1	Y	-.004	4
54	MP GAMMA1	X	-.007	4
55	MP ALPHA2	Y	-.007	4
56	MP ALPHA2	X	-.012	4
57	MP BETA2	Y	-.007	4
58	MP BETA2	X	-.012	4
59	MP GAMMA2	Y	-.009	4
60	MP GAMMA2	X	-.016	4
61	MP ALPHA3	Y	-.007	4
62	MP ALPHA3	X	-.012	4
63	MP BETA3	Y	-.007	4
64	MP BETA3	X	-.012	4
65	MP GAMMA3	Y	-.009	4
66	MP GAMMA3	X	-.016	4
67	MP ALPHA4	Y	-.007	4
68	MP ALPHA4	X	-.013	4
69	MP BETA4	Y	-.007	4
70	MP BETA4	X	-.013	4
71	MP GAMMA4	Y	-.008	4
72	MP GAMMA4	X	-.014	4
73	MP ALPHA2	Y	-.006	4
74	MP ALPHA2	X	-.01	4
75	MP BETA2	Y	-.006	4
76	MP BETA2	X	-.01	4

Member Point Loads (BLC 30 : Ice Wind Load (60)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
77	MP GAMMA2	Y	-.007	4
78	MP GAMMA2	X	-.012	4
79	MP ALPHA3	Y	-.005	4
80	MP ALPHA3	X	-.008	4
81	MP BETA3	Y	-.005	4
82	MP BETA3	X	-.008	4
83	MP GAMMA3	Y	-.006	4
84	MP GAMMA3	X	-.011	4
85	MP ALPHA1	Y	-.002	4
86	MP ALPHA1	X	-.004	4
87	MP BETA1	Y	-.002	4
88	MP BETA1	X	-.004	4
89	MP GAMMA1	Y	-.002	4
90	MP GAMMA1	X	-.004	4
91	MP ALPHA3	Y	-.007	4
92	MP ALPHA3	X	-.012	4
93	MP ALPHA2	Y	-.009	4
94	MP ALPHA2	X	-.016	4
95	MP ALPHA4	Y	-.009	4
96	MP ALPHA4	X	-.016	4

Member Point Loads (BLC 31 : Ice Wind Load (90))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	X	-.026	6.292
2	MP ALPHA2	X	-.026	1.708
3	MP BETA2	X	-.049	6.292
4	MP BETA2	X	-.049	1.708
5	MP GAMMA2	X	-.064	6.917
6	MP GAMMA2	X	-.064	1.083
7	MP GAMMA4	X	-.054	6.917
8	MP GAMMA4	X	-.054	1.083
9	MP ALPHA1	X	-.014	5.875
10	MP ALPHA1	X	-.014	2.125
11	MP BETA1	X	-.019	5.875
12	MP BETA1	X	-.019	2.125
13	MP GAMMA1	X	-.019	5.875
14	MP GAMMA1	X	-.019	2.125
15	MP ALPHA3	X	-.026	6.5
16	MP ALPHA3	X	-.026	1.5
17	MP BETA3	X	-.05	6.5
18	MP BETA3	X	-.05	1.5
19	MP GAMMA3	X	-.059	6.917
20	MP GAMMA3	X	-.059	1.083
21	MP ALPHA4	X	-.018	6.5
22	MP ALPHA4	X	-.018	1.5
23	MP BETA4	X	-.02	6.5
24	MP BETA4	X	-.02	1.5
25	MP ALPHA1	X	-.004	4
26	MP BETA1	X	-.007	4
27	MP GAMMA1	X	-.007	4
28	MP ALPHA2	X	-.012	4
29	MP BETA2	X	-.017	4
30	MP GAMMA2	X	-.017	4
31	MP ALPHA3	X	-.012	4
32	MP BETA3	X	-.017	4
33	MP GAMMA3	X	-.017	4

Member Point Loads (BLC 31 : Ice Wind Load (90)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
34	MP ALPHA4	X	-.014	4
35	MP BETA4	X	-.016	4
36	MP GAMMA4	X	-.016	4
37	MP ALPHA2	X	-.01	4
38	MP BETA2	X	-.013	4
39	MP GAMMA2	X	-.013	4
40	MP ALPHA3	X	-.008	4
41	MP BETA3	X	-.012	4
42	MP GAMMA3	X	-.012	4
43	MP ALPHA1	X	-.004	4
44	MP BETA1	X	-.005	4
45	MP GAMMA1	X	-.005	4
46	MP ALPHA3	X	-.014	4
47	MP ALPHA2	X	-.019	4
48	MP ALPHA4	X	-.019	4

Member Point Loads (BLC 32 : Ice Wind Load (120))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	.017	6.292
2	MP ALPHA2	Y	.017	1.708
3	MP ALPHA2	X	-.029	6.292
4	MP ALPHA2	X	-.029	1.708
5	MP BETA2	Y	.028	6.292
6	MP BETA2	Y	.028	1.708
7	MP BETA2	X	-.049	6.292
8	MP BETA2	X	-.049	1.708
9	MP GAMMA2	Y	.022	6.917
10	MP GAMMA2	Y	.022	1.083
11	MP GAMMA2	X	-.038	6.917
12	MP GAMMA2	X	-.038	1.083
13	MP GAMMA4	Y	.022	6.917
14	MP GAMMA4	Y	.022	1.083
15	MP GAMMA4	X	-.038	6.917
16	MP GAMMA4	X	-.038	1.083
17	MP ALPHA1	Y	.008	5.875
18	MP ALPHA1	Y	.008	2.125
19	MP ALPHA1	X	-.014	5.875
20	MP ALPHA1	X	-.014	2.125
21	MP BETA1	Y	.01	5.875
22	MP BETA1	Y	.01	2.125
23	MP BETA1	X	-.018	5.875
24	MP BETA1	X	-.018	2.125
25	MP GAMMA1	Y	.008	5.875
26	MP GAMMA1	Y	.008	2.125
27	MP GAMMA1	X	-.014	5.875
28	MP GAMMA1	X	-.014	2.125
29	MP ALPHA3	Y	.017	6.5
30	MP ALPHA3	Y	.017	1.5
31	MP ALPHA3	X	-.029	6.5
32	MP ALPHA3	X	-.029	1.5
33	MP BETA3	Y	.029	6.5
34	MP BETA3	Y	.029	1.5
35	MP BETA3	X	-.05	6.5
36	MP BETA3	X	-.05	1.5
37	MP GAMMA3	Y	.02	6.917
38	MP GAMMA3	Y	.02	1.083

Member Point Loads (BLC 32 : Ice Wind Load (120)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
39	MP GAMMA3	X	-.034	6.917
40	MP GAMMA3	X	-.034	1.083
41	MP ALPHA4	Y	.009	6.5
42	MP ALPHA4	Y	.009	1.5
43	MP ALPHA4	X	-.016	6.5
44	MP ALPHA4	X	-.016	1.5
45	MP BETA4	Y	.01	6.5
46	MP BETA4	Y	.01	1.5
47	MP BETA4	X	-.018	6.5
48	MP BETA4	X	-.018	1.5
49	MP ALPHA1	Y	.002	4
50	MP ALPHA1	X	-.004	4
51	MP BETA1	Y	.004	4
52	MP BETA1	X	-.007	4
53	MP GAMMA1	Y	.002	4
54	MP GAMMA1	X	-.004	4
55	MP ALPHA2	Y	.007	4
56	MP ALPHA2	X	-.012	4
57	MP BETA2	Y	.009	4
58	MP BETA2	X	-.016	4
59	MP GAMMA2	Y	.007	4
60	MP GAMMA2	X	-.012	4
61	MP ALPHA3	Y	.007	4
62	MP ALPHA3	X	-.012	4
63	MP BETA3	Y	.009	4
64	MP BETA3	X	-.016	4
65	MP GAMMA3	Y	.007	4
66	MP GAMMA3	X	-.012	4
67	MP ALPHA4	Y	.007	4
68	MP ALPHA4	X	-.013	4
69	MP BETA4	Y	.008	4
70	MP BETA4	X	-.014	4
71	MP GAMMA4	Y	.007	4
72	MP GAMMA4	X	-.013	4
73	MP ALPHA2	Y	.006	4
74	MP ALPHA2	X	-.01	4
75	MP BETA2	Y	.007	4
76	MP BETA2	X	-.012	4
77	MP GAMMA2	Y	.006	4
78	MP GAMMA2	X	-.01	4
79	MP ALPHA3	Y	.005	4
80	MP ALPHA3	X	-.008	4
81	MP BETA3	Y	.006	4
82	MP BETA3	X	-.011	4
83	MP GAMMA3	Y	.005	4
84	MP GAMMA3	X	-.008	4
85	MP ALPHA1	Y	.002	4
86	MP ALPHA1	X	-.004	4
87	MP BETA1	Y	.002	4
88	MP BETA1	X	-.004	4
89	MP GAMMA1	Y	.002	4
90	MP GAMMA1	X	-.004	4
91	MP ALPHA3	Y	.007	4
92	MP ALPHA3	X	-.012	4
93	MP ALPHA2	Y	.009	4
94	MP ALPHA2	X	-.016	4
95	MP ALPHA4	Y	.009	4

Member Point Loads (BLC 32 : Ice Wind Load (120)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
96	MP ALPHA4	X	-.016	4

Member Point Loads (BLC 33 : Ice Wind Load (150))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	.042	6.292
2	MP ALPHA2	Y	.042	1.708
3	MP ALPHA2	X	-.024	6.292
4	MP ALPHA2	X	-.024	1.708
5	MP BETA2	Y	.042	6.292
6	MP BETA2	Y	.042	1.708
7	MP BETA2	X	-.024	6.292
8	MP BETA2	X	-.024	1.708
9	MP GAMMA2	Y	.03	6.917
10	MP GAMMA2	Y	.03	1.083
11	MP GAMMA2	X	-.017	6.917
12	MP GAMMA2	X	-.017	1.083
13	MP GAMMA4	Y	.034	6.917
14	MP GAMMA4	Y	.034	1.083
15	MP GAMMA4	X	-.02	6.917
16	MP GAMMA4	X	-.02	1.083
17	MP ALPHA1	Y	.016	5.875
18	MP ALPHA1	Y	.016	2.125
19	MP ALPHA1	X	-.009	5.875
20	MP ALPHA1	X	-.009	2.125
21	MP BETA1	Y	.016	5.875
22	MP BETA1	Y	.016	2.125
23	MP BETA1	X	-.009	5.875
24	MP BETA1	X	-.009	2.125
25	MP GAMMA1	Y	.012	5.875
26	MP GAMMA1	Y	.012	2.125
27	MP GAMMA1	X	-.007	5.875
28	MP GAMMA1	X	-.007	2.125
29	MP ALPHA3	Y	.043	6.5
30	MP ALPHA3	Y	.043	1.5
31	MP ALPHA3	X	-.025	6.5
32	MP ALPHA3	X	-.025	1.5
33	MP BETA3	Y	.043	6.5
34	MP BETA3	Y	.043	1.5
35	MP BETA3	X	-.025	6.5
36	MP BETA3	X	-.025	1.5
37	MP GAMMA3	Y	.026	6.917
38	MP GAMMA3	Y	.026	1.083
39	MP GAMMA3	X	-.015	6.917
40	MP GAMMA3	X	-.015	1.083
41	MP ALPHA4	Y	.018	6.5
42	MP ALPHA4	Y	.018	1.5
43	MP ALPHA4	X	-.01	6.5
44	MP ALPHA4	X	-.01	1.5
45	MP BETA4	Y	.018	6.5
46	MP BETA4	Y	.018	1.5
47	MP BETA4	X	-.01	6.5
48	MP BETA4	X	-.01	1.5
49	MP ALPHA1	Y	.006	4
50	MP ALPHA1	X	-.003	4
51	MP BETA1	Y	.006	4
52	MP BETA1	X	-.003	4

Member Point Loads (BLC 33 : Ice Wind Load (150)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
53	MP GAMMA1	Y	.003	4
54	MP GAMMA1	X	-.002	4
55	MP ALPHA2	Y	.014	4
56	MP ALPHA2	X	-.008	4
57	MP BETA2	Y	.014	4
58	MP BETA2	X	-.008	4
59	MP GAMMA2	Y	.011	4
60	MP GAMMA2	X	-.006	4
61	MP ALPHA3	Y	.014	4
62	MP ALPHA3	X	-.008	4
63	MP BETA3	Y	.014	4
64	MP BETA3	X	-.008	4
65	MP GAMMA3	Y	.011	4
66	MP GAMMA3	X	-.006	4
67	MP ALPHA4	Y	.014	4
68	MP ALPHA4	X	-.008	4
69	MP BETA4	Y	.014	4
70	MP BETA4	X	-.008	4
71	MP GAMMA4	Y	.012	4
72	MP GAMMA4	X	-.007	4
73	MP ALPHA2	Y	.011	4
74	MP ALPHA2	X	-.006	4
75	MP BETA2	Y	.011	4
76	MP BETA2	X	-.006	4
77	MP GAMMA2	Y	.009	4
78	MP GAMMA2	X	-.005	4
79	MP ALPHA3	Y	.01	4
80	MP ALPHA3	X	-.006	4
81	MP BETA3	Y	.01	4
82	MP BETA3	X	-.006	4
83	MP GAMMA3	Y	.007	4
84	MP GAMMA3	X	-.004	4
85	MP ALPHA1	Y	.004	4
86	MP ALPHA1	X	-.002	4
87	MP BETA1	Y	.004	4
88	MP BETA1	X	-.002	4
89	MP GAMMA1	Y	.004	4
90	MP GAMMA1	X	-.002	4
91	MP ALPHA3	Y	.012	4
92	MP ALPHA3	X	-.007	4
93	MP ALPHA2	Y	.016	4
94	MP ALPHA2	X	-.009	4
95	MP ALPHA4	Y	.016	4
96	MP ALPHA4	X	-.009	4

Member Point Loads (BLC 34 : Ice Wind Load (180))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	.056	6.292
2	MP ALPHA2	Y	.056	1.708
3	MP BETA2	Y	.034	6.292
4	MP BETA2	Y	.034	1.708
5	MP GAMMA2	Y	.044	6.917
6	MP GAMMA2	Y	.044	1.083
7	MP GAMMA4	Y	.044	6.917
8	MP GAMMA4	Y	.044	1.083
9	MP ALPHA1	Y	.021	5.875

Member Point Loads (BLC 34 : Ice Wind Load (180)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
10	MP ALPHA1	Y	.021	2.125
11	MP BETA1	Y	.016	5.875
12	MP BETA1	Y	.016	2.125
13	MP GAMMA1	Y	.016	5.875
14	MP GAMMA1	Y	.016	2.125
15	MP ALPHA3	Y	.058	6.5
16	MP ALPHA3	Y	.058	1.5
17	MP BETA3	Y	.034	6.5
18	MP BETA3	Y	.034	1.5
19	MP GAMMA3	Y	.04	6.917
20	MP GAMMA3	Y	.04	1.083
21	MP ALPHA4	Y	.021	6.5
22	MP ALPHA4	Y	.021	1.5
23	MP BETA4	Y	.019	6.5
24	MP BETA4	Y	.019	1.5
25	MP ALPHA1	Y	.008	4
26	MP BETA1	Y	.005	4
27	MP GAMMA1	Y	.005	4
28	MP ALPHA2	Y	.018	4
29	MP BETA2	Y	.014	4
30	MP GAMMA2	Y	.014	4
31	MP ALPHA3	Y	.018	4
32	MP BETA3	Y	.014	4
33	MP GAMMA3	Y	.014	4
34	MP ALPHA4	Y	.017	4
35	MP BETA4	Y	.015	4
36	MP GAMMA4	Y	.015	4
37	MP ALPHA2	Y	.013	4
38	MP BETA2	Y	.011	4
39	MP GAMMA2	Y	.011	4
40	MP ALPHA3	Y	.013	4
41	MP BETA3	Y	.009	4
42	MP GAMMA3	Y	.009	4
43	MP ALPHA1	Y	.005	4
44	MP BETA1	Y	.004	4
45	MP GAMMA1	Y	.004	4
46	MP ALPHA3	Y	.014	4
47	MP ALPHA2	Y	.019	4
48	MP ALPHA4	Y	.019	4

Member Point Loads (BLC 35 : Ice Wind Load (210))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	.042	6.292
2	MP ALPHA2	Y	.042	1.708
3	MP ALPHA2	X	.024	6.292
4	MP ALPHA2	X	.024	1.708
5	MP BETA2	Y	.023	6.292
6	MP BETA2	Y	.023	1.708
7	MP BETA2	X	.013	6.292
8	MP BETA2	X	.013	1.708
9	MP GAMMA2	Y	.055	6.917
10	MP GAMMA2	Y	.055	1.083
11	MP GAMMA2	X	.032	6.917
12	MP GAMMA2	X	.032	1.083
13	MP GAMMA4	Y	.047	6.917
14	MP GAMMA4	Y	.047	1.083

Member Point Loads (BLC 35 : Ice Wind Load (210)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
15	MP GAMMA4	X	.027	6.917
16	MP GAMMA4	X	.027	1.083
17	MP ALPHA1	Y	.016	5.875
18	MP ALPHA1	Y	.016	2.125
19	MP ALPHA1	X	.009	5.875
20	MP ALPHA1	X	.009	2.125
21	MP BETA1	Y	.012	5.875
22	MP BETA1	Y	.012	2.125
23	MP BETA1	X	.007	5.875
24	MP BETA1	X	.007	2.125
25	MP GAMMA1	Y	.016	5.875
26	MP GAMMA1	Y	.016	2.125
27	MP GAMMA1	X	.009	5.875
28	MP GAMMA1	X	.009	2.125
29	MP ALPHA3	Y	.043	6.5
30	MP ALPHA3	Y	.043	1.5
31	MP ALPHA3	X	.025	6.5
32	MP ALPHA3	X	.025	1.5
33	MP BETA3	Y	.022	6.5
34	MP BETA3	Y	.022	1.5
35	MP BETA3	X	.013	6.5
36	MP BETA3	X	.013	1.5
37	MP GAMMA3	Y	.051	6.917
38	MP GAMMA3	Y	.051	1.083
39	MP GAMMA3	X	.029	6.917
40	MP GAMMA3	X	.029	1.083
41	MP ALPHA4	Y	.018	6.5
42	MP ALPHA4	Y	.018	1.5
43	MP ALPHA4	X	.01	6.5
44	MP ALPHA4	X	.01	1.5
45	MP BETA4	Y	.016	6.5
46	MP BETA4	Y	.016	1.5
47	MP BETA4	X	.009	6.5
48	MP BETA4	X	.009	1.5
49	MP ALPHA1	Y	.006	4
50	MP ALPHA1	X	.003	4
51	MP BETA1	Y	.003	4
52	MP BETA1	X	.002	4
53	MP GAMMA1	Y	.006	4
54	MP GAMMA1	X	.003	4
55	MP ALPHA2	Y	.014	4
56	MP ALPHA2	X	.008	4
57	MP BETA2	Y	.011	4
58	MP BETA2	X	.006	4
59	MP GAMMA2	Y	.014	4
60	MP GAMMA2	X	.008	4
61	MP ALPHA3	Y	.014	4
62	MP ALPHA3	X	.008	4
63	MP BETA3	Y	.011	4
64	MP BETA3	X	.006	4
65	MP GAMMA3	Y	.014	4
66	MP GAMMA3	X	.008	4
67	MP ALPHA4	Y	.014	4
68	MP ALPHA4	X	.008	4
69	MP BETA4	Y	.012	4
70	MP BETA4	X	.007	4
71	MP GAMMA4	Y	.014	4

Member Point Loads (BLC 35 : Ice Wind Load (210)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
72	MP GAMMA4	X	.008	4
73	MP ALPHA2	Y	.011	4
74	MP ALPHA2	X	.006	4
75	MP BETA2	Y	.009	4
76	MP BETA2	X	.005	4
77	MP GAMMA2	Y	.011	4
78	MP GAMMA2	X	.006	4
79	MP ALPHA3	Y	.01	4
80	MP ALPHA3	X	.006	4
81	MP BETA3	Y	.007	4
82	MP BETA3	X	.004	4
83	MP GAMMA3	Y	.01	4
84	MP GAMMA3	X	.006	4
85	MP ALPHA1	Y	.004	4
86	MP ALPHA1	X	.002	4
87	MP BETA1	Y	.004	4
88	MP BETA1	X	.002	4
89	MP GAMMA1	Y	.004	4
90	MP GAMMA1	X	.002	4
91	MP ALPHA3	Y	.012	4
92	MP ALPHA3	X	.007	4
93	MP ALPHA2	Y	.016	4
94	MP ALPHA2	X	.009	4
95	MP ALPHA4	Y	.016	4
96	MP ALPHA4	X	.009	4

Member Point Loads (BLC 36 : Ice Wind Load (240))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	.017	6.292
2	MP ALPHA2	Y	.017	1.708
3	MP ALPHA2	X	.029	6.292
4	MP ALPHA2	X	.029	1.708
5	MP BETA2	Y	.017	6.292
6	MP BETA2	Y	.017	1.708
7	MP BETA2	X	.029	6.292
8	MP BETA2	X	.029	1.708
9	MP GAMMA2	Y	.037	6.917
10	MP GAMMA2	Y	.037	1.083
11	MP GAMMA2	X	.064	6.917
12	MP GAMMA2	X	.064	1.083
13	MP GAMMA4	Y	.029	6.917
14	MP GAMMA4	Y	.029	1.083
15	MP GAMMA4	X	.051	6.917
16	MP GAMMA4	X	.051	1.083
17	MP ALPHA1	Y	.008	5.875
18	MP ALPHA1	Y	.008	2.125
19	MP ALPHA1	X	.014	5.875
20	MP ALPHA1	X	.014	2.125
21	MP BETA1	Y	.008	5.875
22	MP BETA1	Y	.008	2.125
23	MP BETA1	X	.014	5.875
24	MP BETA1	X	.014	2.125
25	MP GAMMA1	Y	.01	5.875
26	MP GAMMA1	Y	.01	2.125
27	MP GAMMA1	X	.018	5.875
28	MP GAMMA1	X	.018	2.125

Member Point Loads (BLC 36 : Ice Wind Load (240)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
29	MP ALPHA3	Y	.017	6.5
30	MP ALPHA3	Y	.017	1.5
31	MP ALPHA3	X	.029	6.5
32	MP ALPHA3	X	.029	1.5
33	MP BETA3	Y	.017	6.5
34	MP BETA3	Y	.017	1.5
35	MP BETA3	X	.029	6.5
36	MP BETA3	X	.029	1.5
37	MP GAMMA3	Y	.034	6.917
38	MP GAMMA3	Y	.034	1.083
39	MP GAMMA3	X	.059	6.917
40	MP GAMMA3	X	.059	1.083
41	MP ALPHA4	Y	.009	6.5
42	MP ALPHA4	Y	.009	1.5
43	MP ALPHA4	X	.016	6.5
44	MP ALPHA4	X	.016	1.5
45	MP BETA4	Y	.009	6.5
46	MP BETA4	Y	.009	1.5
47	MP BETA4	X	.016	6.5
48	MP BETA4	X	.016	1.5
49	MP ALPHA1	Y	.002	4
50	MP ALPHA1	X	.004	4
51	MP BETA1	Y	.002	4
52	MP BETA1	X	.004	4
53	MP GAMMA1	Y	.004	4
54	MP GAMMA1	X	.007	4
55	MP ALPHA2	Y	.007	4
56	MP ALPHA2	X	.012	4
57	MP BETA2	Y	.007	4
58	MP BETA2	X	.012	4
59	MP GAMMA2	Y	.009	4
60	MP GAMMA2	X	.016	4
61	MP ALPHA3	Y	.007	4
62	MP ALPHA3	X	.012	4
63	MP BETA3	Y	.007	4
64	MP BETA3	X	.012	4
65	MP GAMMA3	Y	.009	4
66	MP GAMMA3	X	.016	4
67	MP ALPHA4	Y	.007	4
68	MP ALPHA4	X	.013	4
69	MP BETA4	Y	.007	4
70	MP BETA4	X	.013	4
71	MP GAMMA4	Y	.008	4
72	MP GAMMA4	X	.014	4
73	MP ALPHA2	Y	.006	4
74	MP ALPHA2	X	.01	4
75	MP BETA2	Y	.006	4
76	MP BETA2	X	.01	4
77	MP GAMMA2	Y	.007	4
78	MP GAMMA2	X	.012	4
79	MP ALPHA3	Y	.005	4
80	MP ALPHA3	X	.008	4
81	MP BETA3	Y	.005	4
82	MP BETA3	X	.008	4
83	MP GAMMA3	Y	.006	4
84	MP GAMMA3	X	.011	4
85	MP ALPHA1	Y	.002	4

Member Point Loads (BLC 36 : Ice Wind Load (240)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
86	MP ALPHA1	X	.004	4
87	MP BETA1	Y	.002	4
88	MP BETA1	X	.004	4
89	MP GAMMA1	Y	.002	4
90	MP GAMMA1	X	.004	4
91	MP ALPHA3	Y	.007	4
92	MP ALPHA3	X	.012	4
93	MP ALPHA2	Y	.009	4
94	MP ALPHA2	X	.016	4
95	MP ALPHA4	Y	.009	4
96	MP ALPHA4	X	.016	4

Member Point Loads (BLC 37 : Ice Wind Load (270))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	X	.026	6.292
2	MP ALPHA2	X	.026	1.708
3	MP BETA2	X	.049	6.292
4	MP BETA2	X	.049	1.708
5	MP GAMMA2	X	.064	6.917
6	MP GAMMA2	X	.064	1.083
7	MP GAMMA4	X	.054	6.917
8	MP GAMMA4	X	.054	1.083
9	MP ALPHA1	X	.014	5.875
10	MP ALPHA1	X	.014	2.125
11	MP BETA1	X	.019	5.875
12	MP BETA1	X	.019	2.125
13	MP GAMMA1	X	.019	5.875
14	MP GAMMA1	X	.019	2.125
15	MP ALPHA3	X	.026	6.5
16	MP ALPHA3	X	.026	1.5
17	MP BETA3	X	.05	6.5
18	MP BETA3	X	.05	1.5
19	MP GAMMA3	X	.059	6.917
20	MP GAMMA3	X	.059	1.083
21	MP ALPHA4	X	.018	6.5
22	MP ALPHA4	X	.018	1.5
23	MP BETA4	X	.02	6.5
24	MP BETA4	X	.02	1.5
25	MP ALPHA1	X	.004	4
26	MP BETA1	X	.007	4
27	MP GAMMA1	X	.007	4
28	MP ALPHA2	X	.012	4
29	MP BETA2	X	.017	4
30	MP GAMMA2	X	.017	4
31	MP ALPHA3	X	.012	4
32	MP BETA3	X	.017	4
33	MP GAMMA3	X	.017	4
34	MP ALPHA4	X	.014	4
35	MP BETA4	X	.016	4
36	MP GAMMA4	X	.016	4
37	MP ALPHA2	X	.01	4
38	MP BETA2	X	.013	4
39	MP GAMMA2	X	.013	4
40	MP ALPHA3	X	.008	4
41	MP BETA3	X	.012	4
42	MP GAMMA3	X	.012	4

Member Point Loads (BLC 37 : Ice Wind Load (270)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
43	MP ALPHA1	X	.004	4
44	MP BETA1	X	.005	4
45	MP GAMMA1	X	.005	4
46	MP ALPHA3	X	.014	4
47	MP ALPHA2	X	.019	4
48	MP ALPHA4	X	.019	4

Member Point Loads (BLC 38 : Ice Wind Load (300))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	-.017	6.292
2	MP ALPHA2	Y	-.017	1.708
3	MP ALPHA2	X	.029	6.292
4	MP ALPHA2	X	.029	1.708
5	MP BETA2	Y	-.028	6.292
6	MP BETA2	Y	-.028	1.708
7	MP BETA2	X	.049	6.292
8	MP BETA2	X	.049	1.708
9	MP GAMMA2	Y	-.022	6.917
10	MP GAMMA2	Y	-.022	1.083
11	MP GAMMA2	X	.038	6.917
12	MP GAMMA2	X	.038	1.083
13	MP GAMMA4	Y	-.022	6.917
14	MP GAMMA4	Y	-.022	1.083
15	MP GAMMA4	X	.038	6.917
16	MP GAMMA4	X	.038	1.083
17	MP ALPHA1	Y	-.008	5.875
18	MP ALPHA1	Y	-.008	2.125
19	MP ALPHA1	X	.014	5.875
20	MP ALPHA1	X	.014	2.125
21	MP BETA1	Y	-.01	5.875
22	MP BETA1	Y	-.01	2.125
23	MP BETA1	X	.018	5.875
24	MP BETA1	X	.018	2.125
25	MP GAMMA1	Y	-.008	5.875
26	MP GAMMA1	Y	-.008	2.125
27	MP GAMMA1	X	.014	5.875
28	MP GAMMA1	X	.014	2.125
29	MP ALPHA3	Y	-.017	6.5
30	MP ALPHA3	Y	-.017	1.5
31	MP ALPHA3	X	.029	6.5
32	MP ALPHA3	X	.029	1.5
33	MP BETA3	Y	-.029	6.5
34	MP BETA3	Y	-.029	1.5
35	MP BETA3	X	.05	6.5
36	MP BETA3	X	.05	1.5
37	MP GAMMA3	Y	-.02	6.917
38	MP GAMMA3	Y	-.02	1.083
39	MP GAMMA3	X	.034	6.917
40	MP GAMMA3	X	.034	1.083
41	MP ALPHA4	Y	-.009	6.5
42	MP ALPHA4	Y	-.009	1.5
43	MP ALPHA4	X	.016	6.5
44	MP ALPHA4	X	.016	1.5
45	MP BETA4	Y	-.01	6.5
46	MP BETA4	Y	-.01	1.5
47	MP BETA4	X	.018	6.5

Member Point Loads (BLC 38 : Ice Wind Load (300)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
48	MP BETA4	X	.018	1.5
49	MP ALPHA1	Y	-.002	4
50	MP ALPHA1	X	.004	4
51	MP BETA1	Y	-.004	4
52	MP BETA1	X	.007	4
53	MP GAMMA1	Y	-.002	4
54	MP GAMMA1	X	.004	4
55	MP ALPHA2	Y	-.007	4
56	MP ALPHA2	X	.012	4
57	MP BETA2	Y	-.009	4
58	MP BETA2	X	.016	4
59	MP GAMMA2	Y	-.007	4
60	MP GAMMA2	X	.012	4
61	MP ALPHA3	Y	-.007	4
62	MP ALPHA3	X	.012	4
63	MP BETA3	Y	-.009	4
64	MP BETA3	X	.016	4
65	MP GAMMA3	Y	-.007	4
66	MP GAMMA3	X	.012	4
67	MP ALPHA4	Y	-.007	4
68	MP ALPHA4	X	.013	4
69	MP BETA4	Y	-.008	4
70	MP BETA4	X	.014	4
71	MP GAMMA4	Y	-.007	4
72	MP GAMMA4	X	.013	4
73	MP ALPHA2	Y	-.006	4
74	MP ALPHA2	X	.01	4
75	MP BETA2	Y	-.007	4
76	MP BETA2	X	.012	4
77	MP GAMMA2	Y	-.006	4
78	MP GAMMA2	X	.01	4
79	MP ALPHA3	Y	-.005	4
80	MP ALPHA3	X	.008	4
81	MP BETA3	Y	-.006	4
82	MP BETA3	X	.011	4
83	MP GAMMA3	Y	-.005	4
84	MP GAMMA3	X	.008	4
85	MP ALPHA1	Y	-.002	4
86	MP ALPHA1	X	.004	4
87	MP BETA1	Y	-.002	4
88	MP BETA1	X	.004	4
89	MP GAMMA1	Y	-.002	4
90	MP GAMMA1	X	.004	4
91	MP ALPHA3	Y	-.007	4
92	MP ALPHA3	X	.012	4
93	MP ALPHA2	Y	-.009	4
94	MP ALPHA2	X	.016	4
95	MP ALPHA4	Y	-.009	4
96	MP ALPHA4	X	.016	4

Member Point Loads (BLC 39 : Ice Wind Load (330))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	-.042	6.292
2	MP ALPHA2	Y	-.042	1.708
3	MP ALPHA2	X	.024	6.292
4	MP ALPHA2	X	.024	1.708

Member Point Loads (BLC 39 : Ice Wind Load (330)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
5	MP BETA2	Y	-.042	6.292
6	MP BETA2	Y	-.042	1.708
7	MP BETA2	X	.024	6.292
8	MP BETA2	X	.024	1.708
9	MP GAMMA2	Y	-.03	6.917
10	MP GAMMA2	Y	-.03	1.083
11	MP GAMMA2	X	.017	6.917
12	MP GAMMA2	X	.017	1.083
13	MP GAMMA4	Y	-.034	6.917
14	MP GAMMA4	Y	-.034	1.083
15	MP GAMMA4	X	.02	6.917
16	MP GAMMA4	X	.02	1.083
17	MP ALPHA1	Y	-.016	5.875
18	MP ALPHA1	Y	-.016	2.125
19	MP ALPHA1	X	.009	5.875
20	MP ALPHA1	X	.009	2.125
21	MP BETA1	Y	-.016	5.875
22	MP BETA1	Y	-.016	2.125
23	MP BETA1	X	.009	5.875
24	MP BETA1	X	.009	2.125
25	MP GAMMA1	Y	-.012	5.875
26	MP GAMMA1	Y	-.012	2.125
27	MP GAMMA1	X	.007	5.875
28	MP GAMMA1	X	.007	2.125
29	MP ALPHA3	Y	-.043	6.5
30	MP ALPHA3	Y	-.043	1.5
31	MP ALPHA3	X	.025	6.5
32	MP ALPHA3	X	.025	1.5
33	MP BETA3	Y	-.043	6.5
34	MP BETA3	Y	-.043	1.5
35	MP BETA3	X	.025	6.5
36	MP BETA3	X	.025	1.5
37	MP GAMMA3	Y	-.026	6.917
38	MP GAMMA3	Y	-.026	1.083
39	MP GAMMA3	X	.015	6.917
40	MP GAMMA3	X	.015	1.083
41	MP ALPHA4	Y	-.018	6.5
42	MP ALPHA4	Y	-.018	1.5
43	MP ALPHA4	X	.01	6.5
44	MP ALPHA4	X	.01	1.5
45	MP BETA4	Y	-.018	6.5
46	MP BETA4	Y	-.018	1.5
47	MP BETA4	X	.01	6.5
48	MP BETA4	X	.01	1.5
49	MP ALPHA1	Y	-.006	4
50	MP ALPHA1	X	.003	4
51	MP BETA1	Y	-.006	4
52	MP BETA1	X	.003	4
53	MP GAMMA1	Y	-.003	4
54	MP GAMMA1	X	.002	4
55	MP ALPHA2	Y	-.014	4
56	MP ALPHA2	X	.008	4
57	MP BETA2	Y	-.014	4
58	MP BETA2	X	.008	4
59	MP GAMMA2	Y	-.011	4
60	MP GAMMA2	X	.006	4
61	MP ALPHA3	Y	-.014	4

Member Point Loads (BLC 39 : Ice Wind Load (330)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
62	MP ALPHA3	X	.008	4
63	MP BETA3	Y	-.014	4
64	MP BETA3	X	.008	4
65	MP GAMMA3	Y	-.011	4
66	MP GAMMA3	X	.006	4
67	MP ALPHA4	Y	-.014	4
68	MP ALPHA4	X	.008	4
69	MP BETA4	Y	-.014	4
70	MP BETA4	X	.008	4
71	MP GAMMA4	Y	-.012	4
72	MP GAMMA4	X	.007	4
73	MP ALPHA2	Y	-.011	4
74	MP ALPHA2	X	.006	4
75	MP BETA2	Y	-.011	4
76	MP BETA2	X	.006	4
77	MP GAMMA2	Y	-.009	4
78	MP GAMMA2	X	.005	4
79	MP ALPHA3	Y	-.01	4
80	MP ALPHA3	X	.006	4
81	MP BETA3	Y	-.01	4
82	MP BETA3	X	.006	4
83	MP GAMMA3	Y	-.007	4
84	MP GAMMA3	X	.004	4
85	MP ALPHA1	Y	-.004	4
86	MP ALPHA1	X	.002	4
87	MP BETA1	Y	-.004	4
88	MP BETA1	X	.002	4
89	MP GAMMA1	Y	-.004	4
90	MP GAMMA1	X	.002	4
91	MP ALPHA3	Y	-.012	4
92	MP ALPHA3	X	.007	4
93	MP ALPHA2	Y	-.016	4
94	MP ALPHA2	X	.009	4
95	MP ALPHA4	Y	-.016	4
96	MP ALPHA4	X	.009	4

Member Point Loads (BLC 40 : Earthquake (x-direction))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	X	-.004	6.292
2	MP ALPHA2	X	-.004	1.708
3	MP BETA2	X	-.004	6.292
4	MP BETA2	X	-.004	1.708
5	MP GAMMA2	X	-.005	6.917
6	MP GAMMA2	X	-.005	1.083
7	MP GAMMA4	X	-.004	6.917
8	MP GAMMA4	X	-.004	1.083
9	MP ALPHA1	X	-.002	5.875
10	MP ALPHA1	X	-.002	2.125
11	MP BETA1	X	-.002	5.875
12	MP BETA1	X	-.002	2.125
13	MP GAMMA1	X	-.002	5.875
14	MP GAMMA1	X	-.002	2.125
15	MP ALPHA3	X	-.005	6.5
16	MP ALPHA3	X	-.005	1.5
17	MP BETA3	X	-.005	6.5
18	MP BETA3	X	-.005	1.5

Member Point Loads (BLC 40 : Earthquake (x-direction)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
19	MP GAMMA3	X	-.006	6.917
20	MP GAMMA3	X	-.006	1.083
21	MP ALPHA4	X	-.005	6.5
22	MP ALPHA4	X	-.005	1.5
23	MP BETA4	X	-.005	6.5
24	MP BETA4	X	-.005	1.5
25	MP ALPHA1	X	-.002	4
26	MP BETA1	X	-.002	4
27	MP GAMMA1	X	-.002	4
28	MP ALPHA2	X	-.005	4
29	MP BETA2	X	-.005	4
30	MP GAMMA2	X	-.005	4
31	MP ALPHA3	X	-.005	4
32	MP BETA3	X	-.005	4
33	MP GAMMA3	X	-.005	4
34	MP ALPHA4	X	-.004	4
35	MP BETA4	X	-.004	4
36	MP GAMMA4	X	-.004	4
37	MP ALPHA2	X	-.007	4
38	MP BETA2	X	-.007	4
39	MP GAMMA2	X	-.007	4
40	MP ALPHA3	X	-.006	4
41	MP BETA3	X	-.006	4
42	MP GAMMA3	X	-.006	4
43	MP ALPHA1	X	-.000221	4
44	MP BETA1	X	-.000221	4
45	MP GAMMA1	X	-.000221	4
46	MP ALPHA3	X	-.003	4
47	MP ALPHA2	X	-.003	4
48	MP ALPHA4	X	-.003	4

Member Point Loads (BLC 41 : Earthquake (y-direction))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	-.004	6.292
2	MP ALPHA2	Y	-.004	1.708
3	MP BETA2	Y	-.004	6.292
4	MP BETA2	Y	-.004	1.708
5	MP GAMMA2	Y	-.005	6.917
6	MP GAMMA2	Y	-.005	1.083
7	MP GAMMA4	Y	-.004	6.917
8	MP GAMMA4	Y	-.004	1.083
9	MP ALPHA1	Y	-.002	5.875
10	MP ALPHA1	Y	-.002	2.125
11	MP BETA1	Y	-.002	5.875
12	MP BETA1	Y	-.002	2.125
13	MP GAMMA1	Y	-.002	5.875
14	MP GAMMA1	Y	-.002	2.125
15	MP ALPHA3	Y	-.005	6.5
16	MP ALPHA3	Y	-.005	1.5
17	MP BETA3	Y	-.005	6.5
18	MP BETA3	Y	-.005	1.5
19	MP GAMMA3	Y	-.006	6.917
20	MP GAMMA3	Y	-.006	1.083
21	MP ALPHA4	Y	-.005	6.5
22	MP ALPHA4	Y	-.005	1.5
23	MP BETA4	Y	-.005	6.5

Member Point Loads (BLC 41 : Earthquake (y-direction)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
24	MP BETA4	Y	-.005	1.5
25	MP ALPHA1	Y	-.002	4
26	MP BETA1	Y	-.002	4
27	MP GAMMA1	Y	-.002	4
28	MP ALPHA2	Y	-.005	4
29	MP BETA2	Y	-.005	4
30	MP GAMMA2	Y	-.005	4
31	MP ALPHA3	Y	-.005	4
32	MP BETA3	Y	-.005	4
33	MP GAMMA3	Y	-.005	4
34	MP ALPHA4	Y	-.004	4
35	MP BETA4	Y	-.004	4
36	MP GAMMA4	Y	-.004	4
37	MP ALPHA2	Y	-.007	4
38	MP BETA2	Y	-.007	4
39	MP GAMMA2	Y	-.007	4
40	MP ALPHA3	Y	-.006	4
41	MP BETA3	Y	-.006	4
42	MP GAMMA3	Y	-.006	4
43	MP ALPHA1	Y	-.000221	4
44	MP BETA1	Y	-.000221	4
45	MP GAMMA1	Y	-.000221	4
46	MP ALPHA3	Y	-.003	4
47	MP ALPHA2	Y	-.003	4
48	MP ALPHA4	Y	-.003	4

Member Point Loads (BLC 42 : Earthquake (z-direction))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Z	-.002	6.292
2	MP ALPHA2	Z	-.002	1.708
3	MP BETA2	Z	-.002	6.292
4	MP BETA2	Z	-.002	1.708
5	MP GAMMA2	Z	-.002	6.917
6	MP GAMMA2	Z	-.002	1.083
7	MP GAMMA4	Z	-.002	6.917
8	MP GAMMA4	Z	-.002	1.083
9	MP ALPHA1	Z	-.000978	5.875
10	MP ALPHA1	Z	-.000978	2.125
11	MP BETA1	Z	-.000978	5.875
12	MP BETA1	Z	-.000978	2.125
13	MP GAMMA1	Z	-.000978	5.875
14	MP GAMMA1	Z	-.000978	2.125
15	MP ALPHA3	Z	-.002	6.5
16	MP ALPHA3	Z	-.002	1.5
17	MP BETA3	Z	-.002	6.5
18	MP BETA3	Z	-.002	1.5
19	MP GAMMA3	Z	-.002	6.917
20	MP GAMMA3	Z	-.002	1.083
21	MP ALPHA4	Z	-.002	6.5
22	MP ALPHA4	Z	-.002	1.5
23	MP BETA4	Z	-.002	6.5
24	MP BETA4	Z	-.002	1.5
25	MP ALPHA1	Z	-.000732	4
26	MP BETA1	Z	-.000732	4
27	MP GAMMA1	Z	-.000732	4
28	MP ALPHA2	Z	-.002	4

Member Point Loads (BLC 42 : Earthquake (z-direction)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
29	MP BETA2	Z	-.002	4
30	MP GAMMA2	Z	-.002	4
31	MP ALPHA3	Z	-.002	4
32	MP BETA3	Z	-.002	4
33	MP GAMMA3	Z	-.002	4
34	MP ALPHA4	Z	-.002	4
35	MP BETA4	Z	-.002	4
36	MP GAMMA4	Z	-.002	4
37	MP ALPHA2	Z	-.003	4
38	MP BETA2	Z	-.003	4
39	MP GAMMA2	Z	-.003	4
40	MP ALPHA3	Z	-.002	4
41	MP BETA3	Z	-.002	4
42	MP GAMMA3	Z	-.002	4
43	MP ALPHA1	Z	-8.9e-5	4
44	MP BETA1	Z	-8.9e-5	4
45	MP GAMMA1	Z	-8.9e-5	4
46	MP ALPHA3	Z	-.001	4
47	MP ALPHA2	Z	-.001	4
48	MP ALPHA4	Z	-.001	4

Member Distributed Loads (BLC 2 : Wind Load (0))

	Member Label	Direction	Start Magnitude[...	End Magnitude[k...	Start Location[ft,...	End Location[ft,%]
1	MP ALPHA1	PY	-.01	-.01	0	0
2	MP ALPHA2	PY	-.01	-.01	0	0
3	MP ALPHA3	PY	-.01	-.01	0	0
4	MP ALPHA4	PY	-.01	-.01	0	0
5	MP BETA1	PY	-.01	-.01	0	0
6	MP BETA2	PY	-.01	-.01	0	0
7	MP BETA3	PY	-.01	-.01	0	0
8	MP BETA4	PY	-.01	-.01	0	0
9	MP GAMMA1	PY	-.01	-.01	0	0
10	MP GAMMA2	PY	-.01	-.01	0	0
11	MP GAMMA3	PY	-.01	-.01	0	0
12	MP GAMMA4	PY	-.01	-.01	0	0
13	RAIL3	PY	-.006	-.006	0	0
14	RAIL2	PY	-.006	-.006	0	0
15	RAIL1	PY	-.003	-.003	0	0
16	SO1A	PY	-.014	-.014	0	0
17	SO2A	PY	-.014	-.014	0	0
18	SO3A	PY	-.014	-.014	0	0
19	ANGLE1	PY	-.01	-.01	0	0
20	ANGLE2	PY	-.01	-.01	0	0
21	ANGLE3	PY	-.01	-.01	0	0
22	Corner1	PY	-.01	-.01	0	0
23	Corner2	PY	-.01	-.01	0	0
24	Corner3	PY	-.01	-.01	0	0
25	FACE3	PY	-.021	-.021	0	0
26	FACE2	PY	-.021	-.021	0	0
27	FACE1	PY	-.01	-.01	0	0
28	INNERFACE1	PY	-.01	-.01	0	0
29	INNERFACE2	PY	-.01	-.01	0	0
30	INNERFACE3	PY	-.01	-.01	0	0
31	KICKER1	PY	-.017	-.017	0	0
32	KICKER2	PY	-.017	-.017	0	0

Member Distributed Loads (BLC 2 : Wind Load (0)) (Continued)

	Member Label	Direction	Start Magnitude[...	End Magnitude[k...	Start Location[ft,...	End Location[ft,%]
33	KICKER3	PY	-.017	-.017	0	0

Member Distributed Loads (BLC 4 : Wind Load (30))

	Member Label	Direction	Start Magnitude[...	End Magnitude[k...	Start Location[ft,...	End Location[ft,%]
1	MP ALPHA1	PY	-.008	-.008	0	0
2	MP ALPHA2	PY	-.008	-.008	0	0
3	MP ALPHA3	PY	-.008	-.008	0	0
4	MP ALPHA4	PY	-.008	-.008	0	0
5	MP BETA1	PY	-.008	-.008	0	0
6	MP BETA2	PY	-.008	-.008	0	0
7	MP BETA3	PY	-.008	-.008	0	0
8	MP BETA4	PY	-.008	-.008	0	0
9	MP GAMMA1	PY	-.008	-.008	0	0
10	MP GAMMA2	PY	-.008	-.008	0	0
11	MP GAMMA3	PY	-.008	-.008	0	0
12	MP GAMMA4	PY	-.008	-.008	0	0
13	RAIL3	PY	-.006	-.006	0	0
14	RAIL2	PY	-.006	-.006	0	0
15	RAIL1	PY	-.003	-.003	0	0
16	SO1A	PY	-.012	-.012	0	0
17	SO2A	PY	-.012	-.012	0	0
18	SO3A	PY	-.012	-.012	0	0
19	ANGLE1	PY	-.009	-.009	0	0
20	ANGLE2	PY	-.009	-.009	0	0
21	ANGLE3	PY	-.009	-.009	0	0
22	Corner1	PY	-.009	-.009	0	0
23	Corner2	PY	-.009	-.009	0	0
24	Corner3	PY	-.009	-.009	0	0
25	FACE3	PY	-.018	-.018	0	0
26	FACE2	PY	-.018	-.018	0	0
27	FACE1	PY	-.009	-.009	0	0
28	INNERFACE1	PY	-.009	-.009	0	0
29	INNERFACE2	PY	-.009	-.009	0	0
30	INNERFACE3	PY	-.009	-.009	0	0
31	KICKER1	PY	-.015	-.015	0	0
32	KICKER2	PY	-.015	-.015	0	0
33	KICKER3	PY	-.015	-.015	0	0
34	MP ALPHA1	PX	-.005	-.005	0	0
35	MP ALPHA2	PX	-.005	-.005	0	0
36	MP ALPHA3	PX	-.005	-.005	0	0
37	MP ALPHA4	PX	-.005	-.005	0	0
38	MP BETA1	PX	-.005	-.005	0	0
39	MP BETA2	PX	-.005	-.005	0	0
40	MP BETA3	PX	-.005	-.005	0	0
41	MP BETA4	PX	-.005	-.005	0	0
42	MP GAMMA1	PX	-.005	-.005	0	0
43	MP GAMMA2	PX	-.005	-.005	0	0
44	MP GAMMA3	PX	-.005	-.005	0	0
45	MP GAMMA4	PX	-.005	-.005	0	0
46	RAIL3	PX	-.003	-.003	0	0
47	RAIL2	PX	-.003	-.003	0	0
48	RAIL1	PX	-.002	-.002	0	0
49	SO1A	PX	-.007	-.007	0	0
50	SO2A	PX	-.007	-.007	0	0
51	SO3A	PX	-.007	-.007	0	0
52	ANGLE1	PX	-.005	-.005	0	0

Member Distributed Loads (BLC 4 : Wind Load (30)) (Continued)

	Member Label	Direction	Start Magnitude[...	End Magnitude[k...	Start Location[ft,...	End Location[ft,%]
53	ANGLE2	PX	-.005	-.005	0	0
54	ANGLE3	PX	-.005	-.005	0	0
55	Corner1	PX	-.005	-.005	0	0
56	Corner2	PX	-.005	-.005	0	0
57	Corner3	PX	-.005	-.005	0	0
58	FACE3	PX	-.01	-.01	0	0
59	FACE2	PX	-.01	-.01	0	0
60	FACE1	PX	-.005	-.005	0	0
61	INNERFACE1	PX	-.005	-.005	0	0
62	INNERFACE2	PX	-.005	-.005	0	0
63	INNERFACE3	PX	-.005	-.005	0	0
64	KICKER1	PX	-.009	-.009	0	0
65	KICKER2	PX	-.009	-.009	0	0
66	KICKER3	PX	-.009	-.009	0	0

Member Distributed Loads (BLC 5 : Wind Load (60))

	Member Label	Direction	Start Magnitude[...	End Magnitude[k...	Start Location[ft,...	End Location[ft,%]
1	MP ALPHA1	PY	-.005	-.005	0	0
2	MP ALPHA2	PY	-.005	-.005	0	0
3	MP ALPHA3	PY	-.005	-.005	0	0
4	MP ALPHA4	PY	-.005	-.005	0	0
5	MP BETA1	PY	-.005	-.005	0	0
6	MP BETA2	PY	-.005	-.005	0	0
7	MP BETA3	PY	-.005	-.005	0	0
8	MP BETA4	PY	-.005	-.005	0	0
9	MP GAMMA1	PY	-.005	-.005	0	0
10	MP GAMMA2	PY	-.005	-.005	0	0
11	MP GAMMA3	PY	-.005	-.005	0	0
12	MP GAMMA4	PY	-.005	-.005	0	0
13	RAIL3	PY	-.003	-.003	0	0
14	RAIL2	PY	-.003	-.003	0	0
15	RAIL1	PY	-.002	-.002	0	0
16	SO1A	PY	-.007	-.007	0	0
17	SO2A	PY	-.007	-.007	0	0
18	SO3A	PY	-.007	-.007	0	0
19	ANGLE1	PY	-.005	-.005	0	0
20	ANGLE2	PY	-.005	-.005	0	0
21	ANGLE3	PY	-.005	-.005	0	0
22	Corner1	PY	-.005	-.005	0	0
23	Corner2	PY	-.005	-.005	0	0
24	Corner3	PY	-.005	-.005	0	0
25	FACE3	PY	-.01	-.01	0	0
26	FACE2	PY	-.01	-.01	0	0
27	FACE1	PY	-.005	-.005	0	0
28	INNERFACE1	PY	-.005	-.005	0	0
29	INNERFACE2	PY	-.005	-.005	0	0
30	INNERFACE3	PY	-.005	-.005	0	0
31	KICKER1	PY	-.009	-.009	0	0
32	KICKER2	PY	-.009	-.009	0	0
33	KICKER3	PY	-.009	-.009	0	0
34	MP ALPHA1	PX	-.008	-.008	0	0
35	MP ALPHA2	PX	-.008	-.008	0	0
36	MP ALPHA3	PX	-.008	-.008	0	0
37	MP ALPHA4	PX	-.008	-.008	0	0
38	MP BETA1	PX	-.008	-.008	0	0
39	MP BETA2	PX	-.008	-.008	0	0

Member Distributed Loads (BLC 5 : Wind Load (60)) (Continued)

	Member Label	Direction	Start Magnitude[...	End Magnitude[k...	Start Location[ft,...	End Location[ft,%]
40	MP BETA3	PX	-.008	-.008	0	0
41	MP BETA4	PX	-.008	-.008	0	0
42	MP GAMMA1	PX	-.008	-.008	0	0
43	MP GAMMA2	PX	-.008	-.008	0	0
44	MP GAMMA3	PX	-.008	-.008	0	0
45	MP GAMMA4	PX	-.008	-.008	0	0
46	RAIL3	PX	-.006	-.006	0	0
47	RAIL2	PX	-.006	-.006	0	0
48	RAIL1	PX	-.003	-.003	0	0
49	SO1A	PX	-.012	-.012	0	0
50	SO2A	PX	-.012	-.012	0	0
51	SO3A	PX	-.012	-.012	0	0
52	ANGLE1	PX	-.009	-.009	0	0
53	ANGLE2	PX	-.009	-.009	0	0
54	ANGLE3	PX	-.009	-.009	0	0
55	Corner1	PX	-.009	-.009	0	0
56	Corner2	PX	-.009	-.009	0	0
57	Corner3	PX	-.009	-.009	0	0
58	FACE3	PX	-.018	-.018	0	0
59	FACE2	PX	-.018	-.018	0	0
60	FACE1	PX	-.009	-.009	0	0
61	INNERFACE1	PX	-.009	-.009	0	0
62	INNERFACE2	PX	-.009	-.009	0	0
63	INNERFACE3	PX	-.009	-.009	0	0
64	KICKER1	PX	-.015	-.015	0	0
65	KICKER2	PX	-.015	-.015	0	0
66	KICKER3	PX	-.015	-.015	0	0

Member Distributed Loads (BLC 6 : Wind Load (90))

	Member Label	Direction	Start Magnitude[...	End Magnitude[k...	Start Location[ft,...	End Location[ft,%]
1	MP ALPHA1	PX	-.01	-.01	0	0
2	MP ALPHA2	PX	-.01	-.01	0	0
3	MP ALPHA3	PX	-.01	-.01	0	0
4	MP ALPHA4	PX	-.01	-.01	0	0
5	MP BETA1	PX	-.01	-.01	0	0
6	MP BETA2	PX	-.01	-.01	0	0
7	MP BETA3	PX	-.01	-.01	0	0
8	MP BETA4	PX	-.01	-.01	0	0
9	MP GAMMA1	PX	-.01	-.01	0	0
10	MP GAMMA2	PX	-.01	-.01	0	0
11	MP GAMMA3	PX	-.01	-.01	0	0
12	MP GAMMA4	PX	-.01	-.01	0	0
13	RAIL1	PX	-.006	-.006	0	0
14	RAIL2	PX	-.006	-.006	0	0
15	RAIL3	PX	-.003	-.003	0	0
16	SO1A	PX	-.014	-.014	0	0
17	SO2A	PX	-.014	-.014	0	0
18	SO3A	PX	-.014	-.014	0	0
19	ANGLE1	PX	-.01	-.01	0	0
20	ANGLE2	PX	-.01	-.01	0	0
21	ANGLE3	PX	-.01	-.01	0	0
22	Corner1	PX	-.01	-.01	0	0
23	Corner2	PX	-.01	-.01	0	0
24	Corner3	PX	-.01	-.01	0	0
25	FACE1	PX	-.021	-.021	0	0
26	FACE2	PX	-.021	-.021	0	0

Member Distributed Loads (BLC 6 : Wind Load (90)) (Continued)

	Member Label	Direction	Start Magnitude[...	End Magnitude[k...	Start Location[ft,...	End Location[ft,%]
27	FACE3	PX	-.01	-.01	0	0
28	INNERFACE1	PX	-.01	-.01	0	0
29	INNERFACE2	PX	-.01	-.01	0	0
30	INNERFACE3	PX	-.01	-.01	0	0
31	KICKER1	PX	-.017	-.017	0	0
32	KICKER2	PX	-.017	-.017	0	0
33	KICKER3	PX	-.017	-.017	0	0

Member Distributed Loads (BLC 7 : Wind Load (120))

	Member Label	Direction	Start Magnitude[...	End Magnitude[k...	Start Location[ft,...	End Location[ft,%]
1	MP ALPHA1	PY	.005	.005	0	0
2	MP ALPHA2	PY	.005	.005	0	0
3	MP ALPHA3	PY	.005	.005	0	0
4	MP ALPHA4	PY	.005	.005	0	0
5	MP BETA1	PY	.005	.005	0	0
6	MP BETA2	PY	.005	.005	0	0
7	MP BETA3	PY	.005	.005	0	0
8	MP BETA4	PY	.005	.005	0	0
9	MP GAMMA1	PY	.005	.005	0	0
10	MP GAMMA2	PY	.005	.005	0	0
11	MP GAMMA3	PY	.005	.005	0	0
12	MP GAMMA4	PY	.005	.005	0	0
13	RAIL1	PY	.003	.003	0	0
14	RAIL2	PY	.003	.003	0	0
15	RAIL3	PY	.002	.002	0	0
16	SO1A	PY	.007	.007	0	0
17	SO2A	PY	.007	.007	0	0
18	SO3A	PY	.007	.007	0	0
19	ANGLE1	PY	.005	.005	0	0
20	ANGLE2	PY	.005	.005	0	0
21	ANGLE3	PY	.005	.005	0	0
22	Corner1	PY	.005	.005	0	0
23	Corner2	PY	.005	.005	0	0
24	Corner3	PY	.005	.005	0	0
25	FACE1	PY	.01	.01	0	0
26	FACE2	PY	.01	.01	0	0
27	FACE3	PY	.005	.005	0	0
28	INNERFACE1	PY	.005	.005	0	0
29	INNERFACE2	PY	.005	.005	0	0
30	INNERFACE3	PY	.005	.005	0	0
31	KICKER1	PY	.009	.009	0	0
32	KICKER2	PY	.009	.009	0	0
33	KICKER3	PY	.009	.009	0	0
34	MP ALPHA1	PX	-.008	-.008	0	0
35	MP ALPHA2	PX	-.008	-.008	0	0
36	MP ALPHA3	PX	-.008	-.008	0	0
37	MP ALPHA4	PX	-.008	-.008	0	0
38	MP BETA1	PX	-.008	-.008	0	0
39	MP BETA2	PX	-.008	-.008	0	0
40	MP BETA3	PX	-.008	-.008	0	0
41	MP BETA4	PX	-.008	-.008	0	0
42	MP GAMMA1	PX	-.008	-.008	0	0
43	MP GAMMA2	PX	-.008	-.008	0	0
44	MP GAMMA3	PX	-.008	-.008	0	0
45	MP GAMMA4	PX	-.008	-.008	0	0
46	RAIL1	PX	-.006	-.006	0	0

Member Distributed Loads (BLC 7 : Wind Load (120)) (Continued)

	Member Label	Direction	Start Magnitude[...	End Magnitude[k...	Start Location[ft,...	End Location[ft,%]
47	RAIL2	PX	-.006	-.006	0	0
48	RAIL3	PX	-.003	-.003	0	0
49	SO1A	PX	-.012	-.012	0	0
50	SO2A	PX	-.012	-.012	0	0
51	SO3A	PX	-.012	-.012	0	0
52	ANGLE1	PX	-.009	-.009	0	0
53	ANGLE2	PX	-.009	-.009	0	0
54	ANGLE3	PX	-.009	-.009	0	0
55	Corner1	PX	-.009	-.009	0	0
56	Corner2	PX	-.009	-.009	0	0
57	Corner3	PX	-.009	-.009	0	0
58	FACE1	PX	-.018	-.018	0	0
59	FACE2	PX	-.018	-.018	0	0
60	FACE3	PX	-.009	-.009	0	0
61	INNERFACE1	PX	-.009	-.009	0	0
62	INNERFACE2	PX	-.009	-.009	0	0
63	INNERFACE3	PX	-.009	-.009	0	0
64	KICKER1	PX	-.015	-.015	0	0
65	KICKER2	PX	-.015	-.015	0	0
66	KICKER3	PX	-.015	-.015	0	0

Member Distributed Loads (BLC 8 : Wind Load (150))

	Member Label	Direction	Start Magnitude[...	End Magnitude[k...	Start Location[ft,...	End Location[ft,%]
1	MP ALPHA1	PY	.008	.008	0	0
2	MP ALPHA2	PY	.008	.008	0	0
3	MP ALPHA3	PY	.008	.008	0	0
4	MP ALPHA4	PY	.008	.008	0	0
5	MP BETA1	PY	.008	.008	0	0
6	MP BETA2	PY	.008	.008	0	0
7	MP BETA3	PY	.008	.008	0	0
8	MP BETA4	PY	.008	.008	0	0
9	MP GAMMA1	PY	.008	.008	0	0
10	MP GAMMA2	PY	.008	.008	0	0
11	MP GAMMA3	PY	.008	.008	0	0
12	MP GAMMA4	PY	.008	.008	0	0
13	RAIL1	PY	.006	.006	0	0
14	RAIL2	PY	.006	.006	0	0
15	RAIL3	PY	.003	.003	0	0
16	SO1A	PY	.012	.012	0	0
17	SO2A	PY	.012	.012	0	0
18	SO3A	PY	.012	.012	0	0
19	ANGLE1	PY	.009	.009	0	0
20	ANGLE2	PY	.009	.009	0	0
21	ANGLE3	PY	.009	.009	0	0
22	Corner1	PY	.009	.009	0	0
23	Corner2	PY	.009	.009	0	0
24	Corner3	PY	.009	.009	0	0
25	FACE1	PY	.018	.018	0	0
26	FACE2	PY	.018	.018	0	0
27	FACE3	PY	.009	.009	0	0
28	INNERFACE1	PY	.009	.009	0	0
29	INNERFACE2	PY	.009	.009	0	0
30	INNERFACE3	PY	.009	.009	0	0
31	KICKER1	PY	.015	.015	0	0
32	KICKER2	PY	.015	.015	0	0
33	KICKER3	PY	.015	.015	0	0

Member Distributed Loads (BLC 8 : Wind Load (150)) (Continued)

	Member Label	Direction	Start Magnitude[...	End Magnitude[k...	Start Location[ft,...	End Location[ft,%]
34	MP ALPHA1	PX	-.005	-.005	0	0
35	MP ALPHA2	PX	-.005	-.005	0	0
36	MP ALPHA3	PX	-.005	-.005	0	0
37	MP ALPHA4	PX	-.005	-.005	0	0
38	MP BETA1	PX	-.005	-.005	0	0
39	MP BETA2	PX	-.005	-.005	0	0
40	MP BETA3	PX	-.005	-.005	0	0
41	MP BETA4	PX	-.005	-.005	0	0
42	MP GAMMA1	PX	-.005	-.005	0	0
43	MP GAMMA2	PX	-.005	-.005	0	0
44	MP GAMMA3	PX	-.005	-.005	0	0
45	MP GAMMA4	PX	-.005	-.005	0	0
46	RAIL1	PX	-.003	-.003	0	0
47	RAIL2	PX	-.003	-.003	0	0
48	RAIL3	PX	-.002	-.002	0	0
49	SO1A	PX	-.007	-.007	0	0
50	SO2A	PX	-.007	-.007	0	0
51	SO3A	PX	-.007	-.007	0	0
52	ANGLE1	PX	-.005	-.005	0	0
53	ANGLE2	PX	-.005	-.005	0	0
54	ANGLE3	PX	-.005	-.005	0	0
55	Corner1	PX	-.005	-.005	0	0
56	Corner2	PX	-.005	-.005	0	0
57	Corner3	PX	-.005	-.005	0	0
58	FACE1	PX	-.01	-.01	0	0
59	FACE2	PX	-.01	-.01	0	0
60	FACE3	PX	-.005	-.005	0	0
61	INNERFACE1	PX	-.005	-.005	0	0
62	INNERFACE2	PX	-.005	-.005	0	0
63	INNERFACE3	PX	-.005	-.005	0	0
64	KICKER1	PX	-.009	-.009	0	0
65	KICKER2	PX	-.009	-.009	0	0
66	KICKER3	PX	-.009	-.009	0	0

Member Distributed Loads (BLC 9 : Wind Load (180))

	Member Label	Direction	Start Magnitude[...	End Magnitude[k...	Start Location[ft,...	End Location[ft,%]
1	MP ALPHA1	PY	.01	.01	0	0
2	MP ALPHA2	PY	.01	.01	0	0
3	MP ALPHA3	PY	.01	.01	0	0
4	MP ALPHA4	PY	.01	.01	0	0
5	MP BETA1	PY	.01	.01	0	0
6	MP BETA2	PY	.01	.01	0	0
7	MP BETA3	PY	.01	.01	0	0
8	MP BETA4	PY	.01	.01	0	0
9	MP GAMMA1	PY	.01	.01	0	0
10	MP GAMMA2	PY	.01	.01	0	0
11	MP GAMMA3	PY	.01	.01	0	0
12	MP GAMMA4	PY	.01	.01	0	0
13	RAIL1	PY	.006	.006	0	0
14	RAIL2	PY	.006	.006	0	0
15	RAIL3	PY	.003	.003	0	0
16	SO1A	PY	.014	.014	0	0
17	SO2A	PY	.014	.014	0	0
18	SO3A	PY	.014	.014	0	0
19	ANGLE1	PY	.01	.01	0	0
20	ANGLE2	PY	.01	.01	0	0

Member Distributed Loads (BLC 9 : Wind Load (180)) (Continued)

	Member Label	Direction	Start Magnitude[...	End Magnitude[k...	Start Location[ft,...	End Location[ft,%]
21	ANGLE3	PY	.01	.01	0	0
22	Corner1	PY	.01	.01	0	0
23	Corner2	PY	.01	.01	0	0
24	Corner3	PY	.01	.01	0	0
25	FACE1	PY	.021	.021	0	0
26	FACE2	PY	.021	.021	0	0
27	FACE3	PY	.01	.01	0	0
28	INNERFACE1	PY	.01	.01	0	0
29	INNERFACE2	PY	.01	.01	0	0
30	INNERFACE3	PY	.01	.01	0	0
31	KICKER1	PY	.017	.017	0	0
32	KICKER2	PY	.017	.017	0	0
33	KICKER3	PY	.017	.017	0	0

Member Distributed Loads (BLC 10 : Wind Load (210))

	Member Label	Direction	Start Magnitude[...	End Magnitude[k...	Start Location[ft,...	End Location[ft,%]
1	MP ALPHA1	PY	.008	.008	0	0
2	MP ALPHA2	PY	.008	.008	0	0
3	MP ALPHA3	PY	.008	.008	0	0
4	MP ALPHA4	PY	.008	.008	0	0
5	MP BETA1	PY	.008	.008	0	0
6	MP BETA2	PY	.008	.008	0	0
7	MP BETA3	PY	.008	.008	0	0
8	MP BETA4	PY	.008	.008	0	0
9	MP GAMMA1	PY	.008	.008	0	0
10	MP GAMMA2	PY	.008	.008	0	0
11	MP GAMMA3	PY	.008	.008	0	0
12	MP GAMMA4	PY	.008	.008	0	0
13	RAIL1	PY	.006	.006	0	0
14	RAIL3	PY	.006	.006	0	0
15	RAIL2	PY	.003	.003	0	0
16	SO1A	PY	.012	.012	0	0
17	SO2A	PY	.012	.012	0	0
18	SO3A	PY	.012	.012	0	0
19	ANGLE1	PY	.009	.009	0	0
20	ANGLE2	PY	.009	.009	0	0
21	ANGLE3	PY	.009	.009	0	0
22	Corner1	PY	.009	.009	0	0
23	Corner2	PY	.009	.009	0	0
24	Corner3	PY	.009	.009	0	0
25	FACE1	PY	.018	.018	0	0
26	FACE3	PY	.018	.018	0	0
27	FACE2	PY	.009	.009	0	0
28	INNERFACE1	PY	.009	.009	0	0
29	INNERFACE2	PY	.009	.009	0	0
30	INNERFACE3	PY	.009	.009	0	0
31	KICKER1	PY	.015	.015	0	0
32	KICKER2	PY	.015	.015	0	0
33	KICKER3	PY	.015	.015	0	0
34	MP ALPHA1	PX	.005	.005	0	0
35	MP ALPHA2	PX	.005	.005	0	0
36	MP ALPHA3	PX	.005	.005	0	0
37	MP ALPHA4	PX	.005	.005	0	0
38	MP BETA1	PX	.005	.005	0	0
39	MP BETA2	PX	.005	.005	0	0
40	MP BETA3	PX	.005	.005	0	0

Member Distributed Loads (BLC 10 : Wind Load (210)) (Continued)

	Member Label	Direction	Start Magnitude[...	End Magnitude[k...	Start Location[ft,...	End Location[ft,%]
41	MP BETA4	PX	.005	.005	0	0
42	MP GAMMA1	PX	.005	.005	0	0
43	MP GAMMA2	PX	.005	.005	0	0
44	MP GAMMA3	PX	.005	.005	0	0
45	MP GAMMA4	PX	.005	.005	0	0
46	RAIL1	PX	.003	.003	0	0
47	RAIL3	PX	.003	.003	0	0
48	RAIL2	PX	.002	.002	0	0
49	SO1A	PX	.007	.007	0	0
50	SO2A	PX	.007	.007	0	0
51	SO3A	PX	.007	.007	0	0
52	ANGLE1	PX	.005	.005	0	0
53	ANGLE2	PX	.005	.005	0	0
54	ANGLE3	PX	.005	.005	0	0
55	Corner1	PX	.005	.005	0	0
56	Corner2	PX	.005	.005	0	0
57	Corner3	PX	.005	.005	0	0
58	FACE1	PX	.01	.01	0	0
59	FACE3	PX	.01	.01	0	0
60	FACE2	PX	.005	.005	0	0
61	INNERFACE1	PX	.005	.005	0	0
62	INNERFACE2	PX	.005	.005	0	0
63	INNERFACE3	PX	.005	.005	0	0
64	KICKER1	PX	.009	.009	0	0
65	KICKER2	PX	.009	.009	0	0
66	KICKER3	PX	.009	.009	0	0

Member Distributed Loads (BLC 11 : Wind Load (240))

	Member Label	Direction	Start Magnitude[...	End Magnitude[k...	Start Location[ft,...	End Location[ft,%]
1	MP ALPHA1	PY	.005	.005	0	0
2	MP ALPHA2	PY	.005	.005	0	0
3	MP ALPHA3	PY	.005	.005	0	0
4	MP ALPHA4	PY	.005	.005	0	0
5	MP BETA1	PY	.005	.005	0	0
6	MP BETA2	PY	.005	.005	0	0
7	MP BETA3	PY	.005	.005	0	0
8	MP BETA4	PY	.005	.005	0	0
9	MP GAMMA1	PY	.005	.005	0	0
10	MP GAMMA2	PY	.005	.005	0	0
11	MP GAMMA3	PY	.005	.005	0	0
12	MP GAMMA4	PY	.005	.005	0	0
13	RAIL1	PY	.003	.003	0	0
14	RAIL3	PY	.003	.003	0	0
15	RAIL2	PY	.002	.002	0	0
16	SO1A	PY	.007	.007	0	0
17	SO2A	PY	.007	.007	0	0
18	SO3A	PY	.007	.007	0	0
19	ANGLE1	PY	.005	.005	0	0
20	ANGLE2	PY	.005	.005	0	0
21	ANGLE3	PY	.005	.005	0	0
22	Corner1	PY	.005	.005	0	0
23	Corner2	PY	.005	.005	0	0
24	Corner3	PY	.005	.005	0	0
25	FACE1	PY	.01	.01	0	0
26	FACE3	PY	.01	.01	0	0
27	FACE2	PY	.005	.005	0	0

Member Distributed Loads (BLC 11 : Wind Load (240)) (Continued)

	Member Label	Direction	Start Magnitude[...	End Magnitude[k...	Start Location[ft,...	End Location[ft,%]
28	INNERFACE1	PY	.005	.005	0	0
29	INNERFACE2	PY	.005	.005	0	0
30	INNERFACE3	PY	.005	.005	0	0
31	KICKER1	PY	.009	.009	0	0
32	KICKER2	PY	.009	.009	0	0
33	KICKER3	PY	.009	.009	0	0
34	MP ALPHA1	PX	.008	.008	0	0
35	MP ALPHA2	PX	.008	.008	0	0
36	MP ALPHA3	PX	.008	.008	0	0
37	MP ALPHA4	PX	.008	.008	0	0
38	MP BETA1	PX	.008	.008	0	0
39	MP BETA2	PX	.008	.008	0	0
40	MP BETA3	PX	.008	.008	0	0
41	MP BETA4	PX	.008	.008	0	0
42	MP GAMMA1	PX	.008	.008	0	0
43	MP GAMMA2	PX	.008	.008	0	0
44	MP GAMMA3	PX	.008	.008	0	0
45	MP GAMMA4	PX	.008	.008	0	0
46	RAIL1	PX	.006	.006	0	0
47	RAIL3	PX	.006	.006	0	0
48	RAIL2	PX	.003	.003	0	0
49	SO1A	PX	.012	.012	0	0
50	SO2A	PX	.012	.012	0	0
51	SO3A	PX	.012	.012	0	0
52	ANGLE1	PX	.009	.009	0	0
53	ANGLE2	PX	.009	.009	0	0
54	ANGLE3	PX	.009	.009	0	0
55	Corner1	PX	.009	.009	0	0
56	Corner2	PX	.009	.009	0	0
57	Corner3	PX	.009	.009	0	0
58	FACE1	PX	.018	.018	0	0
59	FACE3	PX	.018	.018	0	0
60	FACE2	PX	.009	.009	0	0
61	INNERFACE1	PX	.009	.009	0	0
62	INNERFACE2	PX	.009	.009	0	0
63	INNERFACE3	PX	.009	.009	0	0
64	KICKER1	PX	.015	.015	0	0
65	KICKER2	PX	.015	.015	0	0
66	KICKER3	PX	.015	.015	0	0

Member Distributed Loads (BLC 12 : Wind Load (270))

	Member Label	Direction	Start Magnitude[...	End Magnitude[k...	Start Location[ft,...	End Location[ft,%]
1	MP ALPHA1	PX	.01	.01	0	0
2	MP ALPHA2	PX	.01	.01	0	0
3	MP ALPHA3	PX	.01	.01	0	0
4	MP ALPHA4	PX	.01	.01	0	0
5	MP BETA1	PX	.01	.01	0	0
6	MP BETA2	PX	.01	.01	0	0
7	MP BETA3	PX	.01	.01	0	0
8	MP BETA4	PX	.01	.01	0	0
9	MP GAMMA1	PX	.01	.01	0	0
10	MP GAMMA2	PX	.01	.01	0	0
11	MP GAMMA3	PX	.01	.01	0	0
12	MP GAMMA4	PX	.01	.01	0	0
13	RAIL1	PX	.006	.006	0	0
14	RAIL3	PX	.006	.006	0	0

Member Distributed Loads (BLC 12 : Wind Load (270)) (Continued)

	Member Label	Direction	Start Magnitude[...	End Magnitude[k...	Start Location[ft,...	End Location[ft,%]
15	RAIL2	PX	.003	.003	0	0
16	SO1A	PX	.014	.014	0	0
17	SO2A	PX	.014	.014	0	0
18	SO3A	PX	.014	.014	0	0
19	ANGLE1	PX	.01	.01	0	0
20	ANGLE2	PX	.01	.01	0	0
21	ANGLE3	PX	.01	.01	0	0
22	Corner1	PX	.01	.01	0	0
23	Corner2	PX	.01	.01	0	0
24	Corner3	PX	.01	.01	0	0
25	FACE1	PX	.021	.021	0	0
26	FACE3	PX	.021	.021	0	0
27	FACE2	PX	.01	.01	0	0
28	INNERFACE1	PX	.01	.01	0	0
29	INNERFACE2	PX	.01	.01	0	0
30	INNERFACE3	PX	.01	.01	0	0
31	KICKER1	PX	.017	.017	0	0
32	KICKER2	PX	.017	.017	0	0
33	KICKER3	PX	.017	.017	0	0

Member Distributed Loads (BLC 13 : Wind Load (300))

	Member Label	Direction	Start Magnitude[...	End Magnitude[k...	Start Location[ft,...	End Location[ft,%]
1	MP ALPHA1	PY	-.005	-.005	0	0
2	MP ALPHA2	PY	-.005	-.005	0	0
3	MP ALPHA3	PY	-.005	-.005	0	0
4	MP ALPHA4	PY	-.005	-.005	0	0
5	MP BETA1	PY	-.005	-.005	0	0
6	MP BETA2	PY	-.005	-.005	0	0
7	MP BETA3	PY	-.005	-.005	0	0
8	MP BETA4	PY	-.005	-.005	0	0
9	MP GAMMA1	PY	-.005	-.005	0	0
10	MP GAMMA2	PY	-.005	-.005	0	0
11	MP GAMMA3	PY	-.005	-.005	0	0
12	MP GAMMA4	PY	-.005	-.005	0	0
13	RAIL1	PY	-.003	-.003	0	0
14	RAIL3	PY	-.003	-.003	0	0
15	RAIL2	PY	-.002	-.002	0	0
16	SO1A	PY	-.007	-.007	0	0
17	SO2A	PY	-.007	-.007	0	0
18	SO3A	PY	-.007	-.007	0	0
19	ANGLE1	PY	-.005	-.005	0	0
20	ANGLE2	PY	-.005	-.005	0	0
21	ANGLE3	PY	-.005	-.005	0	0
22	Corner1	PY	-.005	-.005	0	0
23	Corner2	PY	-.005	-.005	0	0
24	Corner3	PY	-.005	-.005	0	0
25	FACE1	PY	-.01	-.01	0	0
26	FACE3	PY	-.01	-.01	0	0
27	FACE2	PY	-.005	-.005	0	0
28	INNERFACE1	PY	-.005	-.005	0	0
29	INNERFACE2	PY	-.005	-.005	0	0
30	INNERFACE3	PY	-.005	-.005	0	0
31	KICKER1	PY	-.009	-.009	0	0
32	KICKER2	PY	-.009	-.009	0	0
33	KICKER3	PY	-.009	-.009	0	0
34	MP ALPHA1	PX	.008	.008	0	0

Member Distributed Loads (BLC 13 : Wind Load (300)) (Continued)

	Member Label	Direction	Start Magnitude[...	End Magnitude[k...	Start Location[ft,...	End Location[ft,%]
35	MP ALPHA2	PX	.008	.008	0	0
36	MP ALPHA3	PX	.008	.008	0	0
37	MP ALPHA4	PX	.008	.008	0	0
38	MP BETA1	PX	.008	.008	0	0
39	MP BETA2	PX	.008	.008	0	0
40	MP BETA3	PX	.008	.008	0	0
41	MP BETA4	PX	.008	.008	0	0
42	MP GAMMA1	PX	.008	.008	0	0
43	MP GAMMA2	PX	.008	.008	0	0
44	MP GAMMA3	PX	.008	.008	0	0
45	MP GAMMA4	PX	.008	.008	0	0
46	RAIL1	PX	.006	.006	0	0
47	RAIL3	PX	.006	.006	0	0
48	RAIL2	PX	.003	.003	0	0
49	SO1A	PX	.012	.012	0	0
50	SO2A	PX	.012	.012	0	0
51	SO3A	PX	.012	.012	0	0
52	ANGLE1	PX	.009	.009	0	0
53	ANGLE2	PX	.009	.009	0	0
54	ANGLE3	PX	.009	.009	0	0
55	Corner1	PX	.009	.009	0	0
56	Corner2	PX	.009	.009	0	0
57	Corner3	PX	.009	.009	0	0
58	FACE1	PX	.018	.018	0	0
59	FACE3	PX	.018	.018	0	0
60	FACE2	PX	.009	.009	0	0
61	INNERFACE1	PX	.009	.009	0	0
62	INNERFACE2	PX	.009	.009	0	0
63	INNERFACE3	PX	.009	.009	0	0
64	KICKER1	PX	.015	.015	0	0
65	KICKER2	PX	.015	.015	0	0
66	KICKER3	PX	.015	.015	0	0

Member Distributed Loads (BLC 14 : Wind Load (330))

	Member Label	Direction	Start Magnitude[...	End Magnitude[k...	Start Location[ft,...	End Location[ft,%]
1	MP ALPHA1	PY	-.008	-.008	0	0
2	MP ALPHA2	PY	-.008	-.008	0	0
3	MP ALPHA3	PY	-.008	-.008	0	0
4	MP ALPHA4	PY	-.008	-.008	0	0
5	MP BETA1	PY	-.008	-.008	0	0
6	MP BETA2	PY	-.008	-.008	0	0
7	MP BETA3	PY	-.008	-.008	0	0
8	MP BETA4	PY	-.008	-.008	0	0
9	MP GAMMA1	PY	-.008	-.008	0	0
10	MP GAMMA2	PY	-.008	-.008	0	0
11	MP GAMMA3	PY	-.008	-.008	0	0
12	MP GAMMA4	PY	-.008	-.008	0	0
13	RAIL3	PY	-.006	-.006	0	0
14	RAIL2	PY	-.006	-.006	0	0
15	RAIL1	PY	-.003	-.003	0	0
16	SO1A	PY	-.012	-.012	0	0
17	SO2A	PY	-.012	-.012	0	0
18	SO3A	PY	-.012	-.012	0	0
19	ANGLE1	PY	-.009	-.009	0	0
20	ANGLE2	PY	-.009	-.009	0	0
21	ANGLE3	PY	-.009	-.009	0	0

Member Distributed Loads (BLC 14 : Wind Load (330)) (Continued)

	Member Label	Direction	Start Magnitude[...	End Magnitude[k...	Start Location[ft,...	End Location[ft,%]
22	Corner1	PY	-.009	-.009	0	0
23	Corner2	PY	-.009	-.009	0	0
24	Corner3	PY	-.009	-.009	0	0
25	FACE3	PY	-.018	-.018	0	0
26	FACE2	PY	-.018	-.018	0	0
27	FACE1	PY	-.009	-.009	0	0
28	INNERFACE1	PY	-.009	-.009	0	0
29	INNERFACE2	PY	-.009	-.009	0	0
30	INNERFACE3	PY	-.009	-.009	0	0
31	KICKER1	PY	-.015	-.015	0	0
32	KICKER2	PY	-.015	-.015	0	0
33	KICKER3	PY	-.015	-.015	0	0
34	MP ALPHA1	PX	.005	.005	0	0
35	MP ALPHA2	PX	.005	.005	0	0
36	MP ALPHA3	PX	.005	.005	0	0
37	MP ALPHA4	PX	.005	.005	0	0
38	MP BETA1	PX	.005	.005	0	0
39	MP BETA2	PX	.005	.005	0	0
40	MP BETA3	PX	.005	.005	0	0
41	MP BETA4	PX	.005	.005	0	0
42	MP GAMMA1	PX	.005	.005	0	0
43	MP GAMMA2	PX	.005	.005	0	0
44	MP GAMMA3	PX	.005	.005	0	0
45	MP GAMMA4	PX	.005	.005	0	0
46	RAIL3	PX	.003	.003	0	0
47	RAIL2	PX	.003	.003	0	0
48	RAIL1	PX	.002	.002	0	0
49	SO1A	PX	.007	.007	0	0
50	SO2A	PX	.007	.007	0	0
51	SO3A	PX	.007	.007	0	0
52	ANGLE1	PX	.005	.005	0	0
53	ANGLE2	PX	.005	.005	0	0
54	ANGLE3	PX	.005	.005	0	0
55	Corner1	PX	.005	.005	0	0
56	Corner2	PX	.005	.005	0	0
57	Corner3	PX	.005	.005	0	0
58	FACE3	PX	.01	.01	0	0
59	FACE2	PX	.01	.01	0	0
60	FACE1	PX	.005	.005	0	0
61	INNERFACE1	PX	.005	.005	0	0
62	INNERFACE2	PX	.005	.005	0	0
63	INNERFACE3	PX	.005	.005	0	0
64	KICKER1	PX	.009	.009	0	0
65	KICKER2	PX	.009	.009	0	0
66	KICKER3	PX	.009	.009	0	0

Member Distributed Loads (BLC 15 : Maintanence (0))

	Member Label	Direction	Start Magnitude[...	End Magnitude[k...	Start Location[ft,...	End Location[ft,%]
1	MP ALPHA1	PY	-.000656	-.000656	0	0
2	MP ALPHA2	PY	-.000656	-.000656	0	0
3	MP ALPHA3	PY	-.000656	-.000656	0	0
4	MP ALPHA4	PY	-.000656	-.000656	0	0
5	MP BETA1	PY	-.000656	-.000656	0	0
6	MP BETA2	PY	-.000656	-.000656	0	0
7	MP BETA3	PY	-.000656	-.000656	0	0
8	MP BETA4	PY	-.000656	-.000656	0	0

Member Distributed Loads (BLC 15 : Maintanence (0)) (Continued)

	Member Label	Direction	Start Magnitude[...	End Magnitude[k...	Start Location[ft,...	End Location[ft,%]
9	MP GAMMA1	PY	-.000656	-.000656	0	0
10	MP GAMMA2	PY	-.000656	-.000656	0	0
11	MP GAMMA3	PY	-.000656	-.000656	0	0
12	MP GAMMA4	PY	-.000656	-.000656	0	0
13	RAIL3	PY	-.000428	-.000428	0	0
14	RAIL2	PY	-.000428	-.000428	0	0
15	RAIL1	PY	-.000214	-.000214	0	0
16	SO1A	PY	-.000921	-.000921	0	0
17	SO2A	PY	-.000921	-.000921	0	0
18	SO3A	PY	-.000921	-.000921	0	0
19	ANGLE1	PY	-.000691	-.000691	0	0
20	ANGLE2	PY	-.000691	-.000691	0	0
21	ANGLE3	PY	-.000691	-.000691	0	0
22	Corner1	PY	-.000691	-.000691	0	0
23	Corner2	PY	-.000691	-.000691	0	0
24	Corner3	PY	-.000691	-.000691	0	0
25	FACE3	PY	-.001	-.001	0	0
26	FACE2	PY	-.001	-.001	0	0
27	FACE1	PY	-.000691	-.000691	0	0
28	INNERFACE1	PY	-.000691	-.000691	0	0
29	INNERFACE2	PY	-.000691	-.000691	0	0
30	INNERFACE3	PY	-.000691	-.000691	0	0
31	KICKER1	PY	-.001	-.001	0	0
32	KICKER2	PY	-.001	-.001	0	0
33	KICKER3	PY	-.001	-.001	0	0

Member Distributed Loads (BLC 16 : Maintanence (30))

	Member Label	Direction	Start Magnitude[...	End Magnitude[k...	Start Location[ft,...	End Location[ft,%]
1	MP ALPHA1	PY	-.000568	-.000568	0	0
2	MP ALPHA2	PY	-.000568	-.000568	0	0
3	MP ALPHA3	PY	-.000568	-.000568	0	0
4	MP ALPHA4	PY	-.000568	-.000568	0	0
5	MP BETA1	PY	-.000568	-.000568	0	0
6	MP BETA2	PY	-.000568	-.000568	0	0
7	MP BETA3	PY	-.000568	-.000568	0	0
8	MP BETA4	PY	-.000568	-.000568	0	0
9	MP GAMMA1	PY	-.000568	-.000568	0	0
10	MP GAMMA2	PY	-.000568	-.000568	0	0
11	MP GAMMA3	PY	-.000568	-.000568	0	0
12	MP GAMMA4	PY	-.000568	-.000568	0	0
13	RAIL3	PY	-.00037	-.00037	0	0
14	RAIL2	PY	-.00037	-.00037	0	0
15	RAIL1	PY	-.000185	-.000185	0	0
16	SO1A	PY	-.000798	-.000798	0	0
17	SO2A	PY	-.000798	-.000798	0	0
18	SO3A	PY	-.000798	-.000798	0	0
19	ANGLE1	PY	-.000598	-.000598	0	0
20	ANGLE2	PY	-.000598	-.000598	0	0
21	ANGLE3	PY	-.000598	-.000598	0	0
22	Corner1	PY	-.000598	-.000598	0	0
23	Corner2	PY	-.000598	-.000598	0	0
24	Corner3	PY	-.000598	-.000598	0	0
25	FACE3	PY	-.001	-.001	0	0
26	FACE2	PY	-.001	-.001	0	0
27	FACE1	PY	-.000598	-.000598	0	0
28	INNERFACE1	PY	-.000598	-.000598	0	0

Member Distributed Loads (BLC 16 : Maintanence (30)) (Continued)

	Member Label	Direction	Start Magnitude[...	End Magnitude[k...	Start Location[ft,...	End Location[ft,%]
29	INNERFACE2	PY	-.000598	-.000598	0	0
30	INNERFACE3	PY	-.000598	-.000598	0	0
31	KICKER1	PY	-.000997	-.000997	0	0
32	KICKER2	PY	-.000997	-.000997	0	0
33	KICKER3	PY	-.000997	-.000997	0	0
34	MP ALPHA1	PX	-.000328	-.000328	0	0
35	MP ALPHA2	PX	-.000328	-.000328	0	0
36	MP ALPHA3	PX	-.000328	-.000328	0	0
37	MP ALPHA4	PX	-.000328	-.000328	0	0
38	MP BETA1	PX	-.000328	-.000328	0	0
39	MP BETA2	PX	-.000328	-.000328	0	0
40	MP BETA3	PX	-.000328	-.000328	0	0
41	MP BETA4	PX	-.000328	-.000328	0	0
42	MP GAMMA1	PX	-.000328	-.000328	0	0
43	MP GAMMA2	PX	-.000328	-.000328	0	0
44	MP GAMMA3	PX	-.000328	-.000328	0	0
45	MP GAMMA4	PX	-.000328	-.000328	0	0
46	RAIL3	PX	-.000214	-.000214	0	0
47	RAIL2	PX	-.000214	-.000214	0	0
48	RAIL1	PX	-.000107	-.000107	0	0
49	SO1A	PX	-.000461	-.000461	0	0
50	SO2A	PX	-.000461	-.000461	0	0
51	SO3A	PX	-.000461	-.000461	0	0
52	ANGLE1	PX	-.000345	-.000345	0	0
53	ANGLE2	PX	-.000345	-.000345	0	0
54	ANGLE3	PX	-.000345	-.000345	0	0
55	Corner1	PX	-.000345	-.000345	0	0
56	Corner2	PX	-.000345	-.000345	0	0
57	Corner3	PX	-.000345	-.000345	0	0
58	FACE3	PX	-.000691	-.000691	0	0
59	FACE2	PX	-.000691	-.000691	0	0
60	FACE1	PX	-.000345	-.000345	0	0
61	INNERFACE1	PX	-.000345	-.000345	0	0
62	INNERFACE2	PX	-.000345	-.000345	0	0
63	INNERFACE3	PX	-.000345	-.000345	0	0
64	KICKER1	PX	-.000576	-.000576	0	0
65	KICKER2	PX	-.000576	-.000576	0	0
66	KICKER3	PX	-.000576	-.000576	0	0

Member Distributed Loads (BLC 17 : Maintanence (60))

	Member Label	Direction	Start Magnitude[...	End Magnitude[k...	Start Location[ft,...	End Location[ft,%]
1	MP ALPHA1	PY	-.000328	-.000328	0	0
2	MP ALPHA2	PY	-.000328	-.000328	0	0
3	MP ALPHA3	PY	-.000328	-.000328	0	0
4	MP ALPHA4	PY	-.000328	-.000328	0	0
5	MP BETA1	PY	-.000328	-.000328	0	0
6	MP BETA2	PY	-.000328	-.000328	0	0
7	MP BETA3	PY	-.000328	-.000328	0	0
8	MP BETA4	PY	-.000328	-.000328	0	0
9	MP GAMMA1	PY	-.000328	-.000328	0	0
10	MP GAMMA2	PY	-.000328	-.000328	0	0
11	MP GAMMA3	PY	-.000328	-.000328	0	0
12	MP GAMMA4	PY	-.000328	-.000328	0	0
13	RAIL3	PY	-.000214	-.000214	0	0
14	RAIL2	PY	-.000214	-.000214	0	0
15	RAIL1	PY	-.000107	-.000107	0	0

Member Distributed Loads (BLC 17 : Maintanence (60)) (Continued)

	Member Label	Direction	Start Magnitude[...	End Magnitude[k...	Start Location[ft,...	End Location[ft,%]
16	SO1A	PY	-.000461	-.000461	0	0
17	SO2A	PY	-.000461	-.000461	0	0
18	SO3A	PY	-.000461	-.000461	0	0
19	ANGLE1	PY	-.000345	-.000345	0	0
20	ANGLE2	PY	-.000345	-.000345	0	0
21	ANGLE3	PY	-.000345	-.000345	0	0
22	Corner1	PY	-.000345	-.000345	0	0
23	Corner2	PY	-.000345	-.000345	0	0
24	Corner3	PY	-.000345	-.000345	0	0
25	FACE3	PY	-.000691	-.000691	0	0
26	FACE2	PY	-.000691	-.000691	0	0
27	FACE1	PY	-.000345	-.000345	0	0
28	INNERFACE1	PY	-.000345	-.000345	0	0
29	INNERFACE2	PY	-.000345	-.000345	0	0
30	INNERFACE3	PY	-.000345	-.000345	0	0
31	KICKER1	PY	-.000576	-.000576	0	0
32	KICKER2	PY	-.000576	-.000576	0	0
33	KICKER3	PY	-.000576	-.000576	0	0
34	MP ALPHA1	PX	-.000568	-.000568	0	0
35	MP ALPHA2	PX	-.000568	-.000568	0	0
36	MP ALPHA3	PX	-.000568	-.000568	0	0
37	MP ALPHA4	PX	-.000568	-.000568	0	0
38	MP BETA1	PX	-.000568	-.000568	0	0
39	MP BETA2	PX	-.000568	-.000568	0	0
40	MP BETA3	PX	-.000568	-.000568	0	0
41	MP BETA4	PX	-.000568	-.000568	0	0
42	MP GAMMA1	PX	-.000568	-.000568	0	0
43	MP GAMMA2	PX	-.000568	-.000568	0	0
44	MP GAMMA3	PX	-.000568	-.000568	0	0
45	MP GAMMA4	PX	-.000568	-.000568	0	0
46	RAIL3	PX	-.00037	-.00037	0	0
47	RAIL2	PX	-.00037	-.00037	0	0
48	RAIL1	PX	-.000185	-.000185	0	0
49	SO1A	PX	-.000798	-.000798	0	0
50	SO2A	PX	-.000798	-.000798	0	0
51	SO3A	PX	-.000798	-.000798	0	0
52	ANGLE1	PX	-.000598	-.000598	0	0
53	ANGLE2	PX	-.000598	-.000598	0	0
54	ANGLE3	PX	-.000598	-.000598	0	0
55	Corner1	PX	-.000598	-.000598	0	0
56	Corner2	PX	-.000598	-.000598	0	0
57	Corner3	PX	-.000598	-.000598	0	0
58	FACE3	PX	-.001	-.001	0	0
59	FACE2	PX	-.001	-.001	0	0
60	FACE1	PX	-.000598	-.000598	0	0
61	INNERFACE1	PX	-.000598	-.000598	0	0
62	INNERFACE2	PX	-.000598	-.000598	0	0
63	INNERFACE3	PX	-.000598	-.000598	0	0
64	KICKER1	PX	-.000997	-.000997	0	0
65	KICKER2	PX	-.000997	-.000997	0	0
66	KICKER3	PX	-.000997	-.000997	0	0

Member Distributed Loads (BLC 18 : Maintanence (90))

	Member Label	Direction	Start Magnitude[...	End Magnitude[k...	Start Location[ft,...	End Location[ft,%]
1	MP ALPHA1	PX	-.000656	-.000656	0	0
2	MP ALPHA2	PX	-.000656	-.000656	0	0

Member Distributed Loads (BLC 18 : Maintanence (90)) (Continued)

	Member Label	Direction	Start Magnitude[...	End Magnitude[k...	Start Location[ft,...	End Location[ft,%]
3	MP ALPHA3	PX	-.000656	-.000656	0	0
4	MP ALPHA4	PX	-.000656	-.000656	0	0
5	MP BETA1	PX	-.000656	-.000656	0	0
6	MP BETA2	PX	-.000656	-.000656	0	0
7	MP BETA3	PX	-.000656	-.000656	0	0
8	MP BETA4	PX	-.000656	-.000656	0	0
9	MP GAMMA1	PX	-.000656	-.000656	0	0
10	MP GAMMA2	PX	-.000656	-.000656	0	0
11	MP GAMMA3	PX	-.000656	-.000656	0	0
12	MP GAMMA4	PX	-.000656	-.000656	0	0
13	RAIL1	PX	-.000428	-.000428	0	0
14	RAIL2	PX	-.000428	-.000428	0	0
15	RAIL3	PX	-.000214	-.000214	0	0
16	SO1A	PX	-.000921	-.000921	0	0
17	SO2A	PX	-.000921	-.000921	0	0
18	SO3A	PX	-.000921	-.000921	0	0
19	ANGLE1	PX	-.000691	-.000691	0	0
20	ANGLE2	PX	-.000691	-.000691	0	0
21	ANGLE3	PX	-.000691	-.000691	0	0
22	Corner1	PX	-.000691	-.000691	0	0
23	Corner2	PX	-.000691	-.000691	0	0
24	Corner3	PX	-.000691	-.000691	0	0
25	FACE1	PX	-.001	-.001	0	0
26	FACE2	PX	-.001	-.001	0	0
27	FACE3	PX	-.000691	-.000691	0	0
28	INNERFACE1	PX	-.000691	-.000691	0	0
29	INNERFACE2	PX	-.000691	-.000691	0	0
30	INNERFACE3	PX	-.000691	-.000691	0	0
31	KICKER1	PX	-.001	-.001	0	0
32	KICKER2	PX	-.001	-.001	0	0
33	KICKER3	PX	-.001	-.001	0	0

Member Distributed Loads (BLC 19 : Maintanence (120))

	Member Label	Direction	Start Magnitude[...	End Magnitude[k...	Start Location[ft,...	End Location[ft,%]
1	MP ALPHA1	PY	.000328	.000328	0	0
2	MP ALPHA2	PY	.000328	.000328	0	0
3	MP ALPHA3	PY	.000328	.000328	0	0
4	MP ALPHA4	PY	.000328	.000328	0	0
5	MP BETA1	PY	.000328	.000328	0	0
6	MP BETA2	PY	.000328	.000328	0	0
7	MP BETA3	PY	.000328	.000328	0	0
8	MP BETA4	PY	.000328	.000328	0	0
9	MP GAMMA1	PY	.000328	.000328	0	0
10	MP GAMMA2	PY	.000328	.000328	0	0
11	MP GAMMA3	PY	.000328	.000328	0	0
12	MP GAMMA4	PY	.000328	.000328	0	0
13	RAIL1	PY	.000214	.000214	0	0
14	RAIL2	PY	.000214	.000214	0	0
15	RAIL3	PY	.000107	.000107	0	0
16	SO1A	PY	.000461	.000461	0	0
17	SO2A	PY	.000461	.000461	0	0
18	SO3A	PY	.000461	.000461	0	0
19	ANGLE1	PY	.000345	.000345	0	0
20	ANGLE2	PY	.000345	.000345	0	0
21	ANGLE3	PY	.000345	.000345	0	0
22	Corner1	PY	.000345	.000345	0	0

Member Distributed Loads (BLC 19 : Maintanence (120)) (Continued)

	Member Label	Direction	Start Magnitude[...	End Magnitude[k...	Start Location[ft,...	End Location[ft,%]
23	Corner2	PY	.000345	.000345	0	0
24	Corner3	PY	.000345	.000345	0	0
25	FACE1	PY	.000691	.000691	0	0
26	FACE2	PY	.000691	.000691	0	0
27	FACE3	PY	.000345	.000345	0	0
28	INNERFACE1	PY	.000345	.000345	0	0
29	INNERFACE2	PY	.000345	.000345	0	0
30	INNERFACE3	PY	.000345	.000345	0	0
31	KICKER1	PY	.000576	.000576	0	0
32	KICKER2	PY	.000576	.000576	0	0
33	KICKER3	PY	.000576	.000576	0	0
34	MP ALPHA1	PX	-.000568	-.000568	0	0
35	MP ALPHA2	PX	-.000568	-.000568	0	0
36	MP ALPHA3	PX	-.000568	-.000568	0	0
37	MP ALPHA4	PX	-.000568	-.000568	0	0
38	MP BETA1	PX	-.000568	-.000568	0	0
39	MP BETA2	PX	-.000568	-.000568	0	0
40	MP BETA3	PX	-.000568	-.000568	0	0
41	MP BETA4	PX	-.000568	-.000568	0	0
42	MP GAMMA1	PX	-.000568	-.000568	0	0
43	MP GAMMA2	PX	-.000568	-.000568	0	0
44	MP GAMMA3	PX	-.000568	-.000568	0	0
45	MP GAMMA4	PX	-.000568	-.000568	0	0
46	RAIL1	PX	-.00037	-.00037	0	0
47	RAIL2	PX	-.00037	-.00037	0	0
48	RAIL3	PX	-.000185	-.000185	0	0
49	SO1A	PX	-.000798	-.000798	0	0
50	SO2A	PX	-.000798	-.000798	0	0
51	SO3A	PX	-.000798	-.000798	0	0
52	ANGLE1	PX	-.000598	-.000598	0	0
53	ANGLE2	PX	-.000598	-.000598	0	0
54	ANGLE3	PX	-.000598	-.000598	0	0
55	Corner1	PX	-.000598	-.000598	0	0
56	Corner2	PX	-.000598	-.000598	0	0
57	Corner3	PX	-.000598	-.000598	0	0
58	FACE1	PX	-.001	-.001	0	0
59	FACE2	PX	-.001	-.001	0	0
60	FACE3	PX	-.000598	-.000598	0	0
61	INNERFACE1	PX	-.000598	-.000598	0	0
62	INNERFACE2	PX	-.000598	-.000598	0	0
63	INNERFACE3	PX	-.000598	-.000598	0	0
64	KICKER1	PX	-.000997	-.000997	0	0
65	KICKER2	PX	-.000997	-.000997	0	0
66	KICKER3	PX	-.000997	-.000997	0	0

Member Distributed Loads (BLC 20 : Maintanence (150))

	Member Label	Direction	Start Magnitude[...	End Magnitude[k...	Start Location[ft,...	End Location[ft,%]
1	MP ALPHA1	PY	.000568	.000568	0	0
2	MP ALPHA2	PY	.000568	.000568	0	0
3	MP ALPHA3	PY	.000568	.000568	0	0
4	MP ALPHA4	PY	.000568	.000568	0	0
5	MP BETA1	PY	.000568	.000568	0	0
6	MP BETA2	PY	.000568	.000568	0	0
7	MP BETA3	PY	.000568	.000568	0	0
8	MP BETA4	PY	.000568	.000568	0	0
9	MP GAMMA1	PY	.000568	.000568	0	0

Member Distributed Loads (BLC 20 : Maintanence (150)) (Continued)

	Member Label	Direction	Start Magnitude[...	End Magnitude[k...	Start Location[ft,...	End Location[ft,%]
10	MP GAMMA2	PY	.000568	.000568	0	0
11	MP GAMMA3	PY	.000568	.000568	0	0
12	MP GAMMA4	PY	.000568	.000568	0	0
13	RAIL1	PY	.00037	.00037	0	0
14	RAIL2	PY	.00037	.00037	0	0
15	RAIL3	PY	.000185	.000185	0	0
16	SO1A	PY	.000798	.000798	0	0
17	SO2A	PY	.000798	.000798	0	0
18	SO3A	PY	.000798	.000798	0	0
19	ANGLE1	PY	.000598	.000598	0	0
20	ANGLE2	PY	.000598	.000598	0	0
21	ANGLE3	PY	.000598	.000598	0	0
22	Corner1	PY	.000598	.000598	0	0
23	Corner2	PY	.000598	.000598	0	0
24	Corner3	PY	.000598	.000598	0	0
25	FACE1	PY	.001	.001	0	0
26	FACE2	PY	.001	.001	0	0
27	FACE3	PY	.000598	.000598	0	0
28	INNERFACE1	PY	.000598	.000598	0	0
29	INNERFACE2	PY	.000598	.000598	0	0
30	INNERFACE3	PY	.000598	.000598	0	0
31	KICKER1	PY	.000997	.000997	0	0
32	KICKER2	PY	.000997	.000997	0	0
33	KICKER3	PY	.000997	.000997	0	0
34	MP ALPHA1	PX	-.000328	-.000328	0	0
35	MP ALPHA2	PX	-.000328	-.000328	0	0
36	MP ALPHA3	PX	-.000328	-.000328	0	0
37	MP ALPHA4	PX	-.000328	-.000328	0	0
38	MP BETA1	PX	-.000328	-.000328	0	0
39	MP BETA2	PX	-.000328	-.000328	0	0
40	MP BETA3	PX	-.000328	-.000328	0	0
41	MP BETA4	PX	-.000328	-.000328	0	0
42	MP GAMMA1	PX	-.000328	-.000328	0	0
43	MP GAMMA2	PX	-.000328	-.000328	0	0
44	MP GAMMA3	PX	-.000328	-.000328	0	0
45	MP GAMMA4	PX	-.000328	-.000328	0	0
46	RAIL1	PX	-.000214	-.000214	0	0
47	RAIL2	PX	-.000214	-.000214	0	0
48	RAIL3	PX	-.000107	-.000107	0	0
49	SO1A	PX	-.000461	-.000461	0	0
50	SO2A	PX	-.000461	-.000461	0	0
51	SO3A	PX	-.000461	-.000461	0	0
52	ANGLE1	PX	-.000345	-.000345	0	0
53	ANGLE2	PX	-.000345	-.000345	0	0
54	ANGLE3	PX	-.000345	-.000345	0	0
55	Corner1	PX	-.000345	-.000345	0	0
56	Corner2	PX	-.000345	-.000345	0	0
57	Corner3	PX	-.000345	-.000345	0	0
58	FACE1	PX	-.000691	-.000691	0	0
59	FACE2	PX	-.000691	-.000691	0	0
60	FACE3	PX	-.000345	-.000345	0	0
61	INNERFACE1	PX	-.000345	-.000345	0	0
62	INNERFACE2	PX	-.000345	-.000345	0	0
63	INNERFACE3	PX	-.000345	-.000345	0	0
64	KICKER1	PX	-.000576	-.000576	0	0
65	KICKER2	PX	-.000576	-.000576	0	0
66	KICKER3	PX	-.000576	-.000576	0	0

Member Distributed Loads (BLC 21 : Maintanence (180))

	Member Label	Direction	Start Magnitude[...	End Magnitude[k...	Start Location[ft,...	End Location[ft,%]
1	MP ALPHA1	PY	.000656	.000656	0	0
2	MP ALPHA2	PY	.000656	.000656	0	0
3	MP ALPHA3	PY	.000656	.000656	0	0
4	MP ALPHA4	PY	.000656	.000656	0	0
5	MP BETA1	PY	.000656	.000656	0	0
6	MP BETA2	PY	.000656	.000656	0	0
7	MP BETA3	PY	.000656	.000656	0	0
8	MP BETA4	PY	.000656	.000656	0	0
9	MP GAMMA1	PY	.000656	.000656	0	0
10	MP GAMMA2	PY	.000656	.000656	0	0
11	MP GAMMA3	PY	.000656	.000656	0	0
12	MP GAMMA4	PY	.000656	.000656	0	0
13	RAIL1	PY	.000428	.000428	0	0
14	RAIL2	PY	.000428	.000428	0	0
15	RAIL3	PY	.000214	.000214	0	0
16	SO1A	PY	.000921	.000921	0	0
17	SO2A	PY	.000921	.000921	0	0
18	SO3A	PY	.000921	.000921	0	0
19	ANGLE1	PY	.000691	.000691	0	0
20	ANGLE2	PY	.000691	.000691	0	0
21	ANGLE3	PY	.000691	.000691	0	0
22	Corner1	PY	.000691	.000691	0	0
23	Corner2	PY	.000691	.000691	0	0
24	Corner3	PY	.000691	.000691	0	0
25	FACE1	PY	.001	.001	0	0
26	FACE2	PY	.001	.001	0	0
27	FACE3	PY	.000691	.000691	0	0
28	INNERFACE1	PY	.000691	.000691	0	0
29	INNERFACE2	PY	.000691	.000691	0	0
30	INNERFACE3	PY	.000691	.000691	0	0
31	KICKER1	PY	.001	.001	0	0
32	KICKER2	PY	.001	.001	0	0
33	KICKER3	PY	.001	.001	0	0

Member Distributed Loads (BLC 22 : Maintanence (210))

	Member Label	Direction	Start Magnitude[...	End Magnitude[k...	Start Location[ft,...	End Location[ft,%]
1	MP ALPHA1	PY	.000568	.000568	0	0
2	MP ALPHA2	PY	.000568	.000568	0	0
3	MP ALPHA3	PY	.000568	.000568	0	0
4	MP ALPHA4	PY	.000568	.000568	0	0
5	MP BETA1	PY	.000568	.000568	0	0
6	MP BETA2	PY	.000568	.000568	0	0
7	MP BETA3	PY	.000568	.000568	0	0
8	MP BETA4	PY	.000568	.000568	0	0
9	MP GAMMA1	PY	.000568	.000568	0	0
10	MP GAMMA2	PY	.000568	.000568	0	0
11	MP GAMMA3	PY	.000568	.000568	0	0
12	MP GAMMA4	PY	.000568	.000568	0	0
13	RAIL1	PY	.00037	.00037	0	0
14	RAIL3	PY	.00037	.00037	0	0
15	RAIL2	PY	.000185	.000185	0	0
16	SO1A	PY	.000798	.000798	0	0
17	SO2A	PY	.000798	.000798	0	0
18	SO3A	PY	.000798	.000798	0	0
19	ANGLE1	PY	.000598	.000598	0	0
20	ANGLE2	PY	.000598	.000598	0	0

Member Distributed Loads (BLC 22 : Maintanence (210)) (Continued)

	Member Label	Direction	Start Magnitude[...	End Magnitude[k...	Start Location[ft,...	End Location[ft,%]
21	ANGLE3	PY	.000598	.000598	0	0
22	Corner1	PY	.000598	.000598	0	0
23	Corner2	PY	.000598	.000598	0	0
24	Corner3	PY	.000598	.000598	0	0
25	FACE1	PY	.001	.001	0	0
26	FACE3	PY	.001	.001	0	0
27	FACE2	PY	.000598	.000598	0	0
28	INNERFACE1	PY	.000598	.000598	0	0
29	INNERFACE2	PY	.000598	.000598	0	0
30	INNERFACE3	PY	.000598	.000598	0	0
31	KICKER1	PY	.000997	.000997	0	0
32	KICKER2	PY	.000997	.000997	0	0
33	KICKER3	PY	.000997	.000997	0	0
34	MP ALPHA1	PX	.000328	.000328	0	0
35	MP ALPHA2	PX	.000328	.000328	0	0
36	MP ALPHA3	PX	.000328	.000328	0	0
37	MP ALPHA4	PX	.000328	.000328	0	0
38	MP BETA1	PX	.000328	.000328	0	0
39	MP BETA2	PX	.000328	.000328	0	0
40	MP BETA3	PX	.000328	.000328	0	0
41	MP BETA4	PX	.000328	.000328	0	0
42	MP GAMMA1	PX	.000328	.000328	0	0
43	MP GAMMA2	PX	.000328	.000328	0	0
44	MP GAMMA3	PX	.000328	.000328	0	0
45	MP GAMMA4	PX	.000328	.000328	0	0
46	RAIL1	PX	.000214	.000214	0	0
47	RAIL3	PX	.000214	.000214	0	0
48	RAIL2	PX	.000107	.000107	0	0
49	SO1A	PX	.000461	.000461	0	0
50	SO2A	PX	.000461	.000461	0	0
51	SO3A	PX	.000461	.000461	0	0
52	ANGLE1	PX	.000345	.000345	0	0
53	ANGLE2	PX	.000345	.000345	0	0
54	ANGLE3	PX	.000345	.000345	0	0
55	Corner1	PX	.000345	.000345	0	0
56	Corner2	PX	.000345	.000345	0	0
57	Corner3	PX	.000345	.000345	0	0
58	FACE1	PX	.000691	.000691	0	0
59	FACE3	PX	.000691	.000691	0	0
60	FACE2	PX	.000345	.000345	0	0
61	INNERFACE1	PX	.000345	.000345	0	0
62	INNERFACE2	PX	.000345	.000345	0	0
63	INNERFACE3	PX	.000345	.000345	0	0
64	KICKER1	PX	.000576	.000576	0	0
65	KICKER2	PX	.000576	.000576	0	0
66	KICKER3	PX	.000576	.000576	0	0

Member Distributed Loads (BLC 23 : Maintanence (240))

	Member Label	Direction	Start Magnitude[...	End Magnitude[k...	Start Location[ft,...	End Location[ft,%]
1	MP ALPHA1	PY	.000328	.000328	0	0
2	MP ALPHA2	PY	.000328	.000328	0	0
3	MP ALPHA3	PY	.000328	.000328	0	0
4	MP ALPHA4	PY	.000328	.000328	0	0
5	MP BETA1	PY	.000328	.000328	0	0
6	MP BETA2	PY	.000328	.000328	0	0
7	MP BETA3	PY	.000328	.000328	0	0

Member Distributed Loads (BLC 23 : Maintanence (240)) (Continued)

	Member Label	Direction	Start Magnitude[...	End Magnitude[k...	Start Location[ft,...	End Location[ft,%]
8	MP BETA4	PY	.000328	.000328	0	0
9	MP GAMMA1	PY	.000328	.000328	0	0
10	MP GAMMA2	PY	.000328	.000328	0	0
11	MP GAMMA3	PY	.000328	.000328	0	0
12	MP GAMMA4	PY	.000328	.000328	0	0
13	RAIL1	PY	.000214	.000214	0	0
14	RAIL3	PY	.000214	.000214	0	0
15	RAIL2	PY	.000107	.000107	0	0
16	SO1A	PY	.000461	.000461	0	0
17	SO2A	PY	.000461	.000461	0	0
18	SO3A	PY	.000461	.000461	0	0
19	ANGLE1	PY	.000345	.000345	0	0
20	ANGLE2	PY	.000345	.000345	0	0
21	ANGLE3	PY	.000345	.000345	0	0
22	Corner1	PY	.000345	.000345	0	0
23	Corner2	PY	.000345	.000345	0	0
24	Corner3	PY	.000345	.000345	0	0
25	FACE1	PY	.000691	.000691	0	0
26	FACE3	PY	.000691	.000691	0	0
27	FACE2	PY	.000345	.000345	0	0
28	INNERFACE1	PY	.000345	.000345	0	0
29	INNERFACE2	PY	.000345	.000345	0	0
30	INNERFACE3	PY	.000345	.000345	0	0
31	KICKER1	PY	.000576	.000576	0	0
32	KICKER2	PY	.000576	.000576	0	0
33	KICKER3	PY	.000576	.000576	0	0
34	MP ALPHA1	PX	.000568	.000568	0	0
35	MP ALPHA2	PX	.000568	.000568	0	0
36	MP ALPHA3	PX	.000568	.000568	0	0
37	MP ALPHA4	PX	.000568	.000568	0	0
38	MP BETA1	PX	.000568	.000568	0	0
39	MP BETA2	PX	.000568	.000568	0	0
40	MP BETA3	PX	.000568	.000568	0	0
41	MP BETA4	PX	.000568	.000568	0	0
42	MP GAMMA1	PX	.000568	.000568	0	0
43	MP GAMMA2	PX	.000568	.000568	0	0
44	MP GAMMA3	PX	.000568	.000568	0	0
45	MP GAMMA4	PX	.000568	.000568	0	0
46	RAIL1	PX	.00037	.00037	0	0
47	RAIL3	PX	.00037	.00037	0	0
48	RAIL2	PX	.000185	.000185	0	0
49	SO1A	PX	.000798	.000798	0	0
50	SO2A	PX	.000798	.000798	0	0
51	SO3A	PX	.000798	.000798	0	0
52	ANGLE1	PX	.000598	.000598	0	0
53	ANGLE2	PX	.000598	.000598	0	0
54	ANGLE3	PX	.000598	.000598	0	0
55	Corner1	PX	.000598	.000598	0	0
56	Corner2	PX	.000598	.000598	0	0
57	Corner3	PX	.000598	.000598	0	0
58	FACE1	PX	.001	.001	0	0
59	FACE3	PX	.001	.001	0	0
60	FACE2	PX	.000598	.000598	0	0
61	INNERFACE1	PX	.000598	.000598	0	0
62	INNERFACE2	PX	.000598	.000598	0	0
63	INNERFACE3	PX	.000598	.000598	0	0
64	KICKER1	PX	.000997	.000997	0	0

Member Distributed Loads (BLC 23 : Maintanence (240)) (Continued)

	Member Label	Direction	Start Magnitude[...	End Magnitude[k...	Start Location[ft,...	End Location[ft,%]
65	KICKER2	PX	.000997	.000997	0	0
66	KICKER3	PX	.000997	.000997	0	0

Member Distributed Loads (BLC 24 : Maintanence (270))

	Member Label	Direction	Start Magnitude[...	End Magnitude[k...	Start Location[ft,...	End Location[ft,%]
1	MP ALPHA1	PX	.000656	.000656	0	0
2	MP ALPHA2	PX	.000656	.000656	0	0
3	MP ALPHA3	PX	.000656	.000656	0	0
4	MP ALPHA4	PX	.000656	.000656	0	0
5	MP BETA1	PX	.000656	.000656	0	0
6	MP BETA2	PX	.000656	.000656	0	0
7	MP BETA3	PX	.000656	.000656	0	0
8	MP BETA4	PX	.000656	.000656	0	0
9	MP GAMMA1	PX	.000656	.000656	0	0
10	MP GAMMA2	PX	.000656	.000656	0	0
11	MP GAMMA3	PX	.000656	.000656	0	0
12	MP GAMMA4	PX	.000656	.000656	0	0
13	RAIL1	PX	.000428	.000428	0	0
14	RAIL3	PX	.000428	.000428	0	0
15	RAIL2	PX	.000214	.000214	0	0
16	SO1A	PX	.000921	.000921	0	0
17	SO2A	PX	.000921	.000921	0	0
18	SO3A	PX	.000921	.000921	0	0
19	ANGLE1	PX	.000691	.000691	0	0
20	ANGLE2	PX	.000691	.000691	0	0
21	ANGLE3	PX	.000691	.000691	0	0
22	Corner1	PX	.000691	.000691	0	0
23	Corner2	PX	.000691	.000691	0	0
24	Corner3	PX	.000691	.000691	0	0
25	FACE1	PX	.001	.001	0	0
26	FACE3	PX	.001	.001	0	0
27	FACE2	PX	.000691	.000691	0	0
28	INNERFACE1	PX	.000691	.000691	0	0
29	INNERFACE2	PX	.000691	.000691	0	0
30	INNERFACE3	PX	.000691	.000691	0	0
31	KICKER1	PX	.001	.001	0	0
32	KICKER2	PX	.001	.001	0	0
33	KICKER3	PX	.001	.001	0	0

Member Distributed Loads (BLC 25 : Maintanence (300))

	Member Label	Direction	Start Magnitude[...	End Magnitude[k...	Start Location[ft,...	End Location[ft,%]
1	MP ALPHA1	PY	-.000328	-.000328	0	0
2	MP ALPHA2	PY	-.000328	-.000328	0	0
3	MP ALPHA3	PY	-.000328	-.000328	0	0
4	MP ALPHA4	PY	-.000328	-.000328	0	0
5	MP BETA1	PY	-.000328	-.000328	0	0
6	MP BETA2	PY	-.000328	-.000328	0	0
7	MP BETA3	PY	-.000328	-.000328	0	0
8	MP BETA4	PY	-.000328	-.000328	0	0
9	MP GAMMA1	PY	-.000328	-.000328	0	0
10	MP GAMMA2	PY	-.000328	-.000328	0	0
11	MP GAMMA3	PY	-.000328	-.000328	0	0
12	MP GAMMA4	PY	-.000328	-.000328	0	0
13	RAIL1	PY	-.000214	-.000214	0	0
14	RAIL3	PY	-.000214	-.000214	0	0
15	RAIL2	PY	-.000107	-.000107	0	0

Member Distributed Loads (BLC 25 : Maintanence (300)) (Continued)

	Member Label	Direction	Start Magnitude[...	End Magnitude[k...	Start Location[ft,...	End Location[ft,%]
16	SO1A	PY	-.000461	-.000461	0	0
17	SO2A	PY	-.000461	-.000461	0	0
18	SO3A	PY	-.000461	-.000461	0	0
19	ANGLE1	PY	-.000345	-.000345	0	0
20	ANGLE2	PY	-.000345	-.000345	0	0
21	ANGLE3	PY	-.000345	-.000345	0	0
22	Corner1	PY	-.000345	-.000345	0	0
23	Corner2	PY	-.000345	-.000345	0	0
24	Corner3	PY	-.000345	-.000345	0	0
25	FACE1	PY	-.000691	-.000691	0	0
26	FACE3	PY	-.000691	-.000691	0	0
27	FACE2	PY	-.000345	-.000345	0	0
28	INNERFACE1	PY	-.000345	-.000345	0	0
29	INNERFACE2	PY	-.000345	-.000345	0	0
30	INNERFACE3	PY	-.000345	-.000345	0	0
31	KICKER1	PY	-.000576	-.000576	0	0
32	KICKER2	PY	-.000576	-.000576	0	0
33	KICKER3	PY	-.000576	-.000576	0	0
34	MP ALPHA1	PX	.000568	.000568	0	0
35	MP ALPHA2	PX	.000568	.000568	0	0
36	MP ALPHA3	PX	.000568	.000568	0	0
37	MP ALPHA4	PX	.000568	.000568	0	0
38	MP BETA1	PX	.000568	.000568	0	0
39	MP BETA2	PX	.000568	.000568	0	0
40	MP BETA3	PX	.000568	.000568	0	0
41	MP BETA4	PX	.000568	.000568	0	0
42	MP GAMMA1	PX	.000568	.000568	0	0
43	MP GAMMA2	PX	.000568	.000568	0	0
44	MP GAMMA3	PX	.000568	.000568	0	0
45	MP GAMMA4	PX	.000568	.000568	0	0
46	RAIL1	PX	.00037	.00037	0	0
47	RAIL3	PX	.00037	.00037	0	0
48	RAIL2	PX	.000185	.000185	0	0
49	SO1A	PX	.000798	.000798	0	0
50	SO2A	PX	.000798	.000798	0	0
51	SO3A	PX	.000798	.000798	0	0
52	ANGLE1	PX	.000598	.000598	0	0
53	ANGLE2	PX	.000598	.000598	0	0
54	ANGLE3	PX	.000598	.000598	0	0
55	Corner1	PX	.000598	.000598	0	0
56	Corner2	PX	.000598	.000598	0	0
57	Corner3	PX	.000598	.000598	0	0
58	FACE1	PX	.001	.001	0	0
59	FACE3	PX	.001	.001	0	0
60	FACE2	PX	.000598	.000598	0	0
61	INNERFACE1	PX	.000598	.000598	0	0
62	INNERFACE2	PX	.000598	.000598	0	0
63	INNERFACE3	PX	.000598	.000598	0	0
64	KICKER1	PX	.000997	.000997	0	0
65	KICKER2	PX	.000997	.000997	0	0
66	KICKER3	PX	.000997	.000997	0	0

Member Distributed Loads (BLC 26 : Maintanence (330))

	Member Label	Direction	Start Magnitude[...	End Magnitude[k...	Start Location[ft,...	End Location[ft,%]
1	MP ALPHA1	PY	-.000568	-.000568	0	0
2	MP ALPHA2	PY	-.000568	-.000568	0	0

Member Distributed Loads (BLC 26 : Maintanence (330)) (Continued)

	Member Label	Direction	Start Magnitude[...	End Magnitude[k...	Start Location[ft,...	End Location[ft,%]
3	MP ALPHA3	PY	-.000568	-.000568	0	0
4	MP ALPHA4	PY	-.000568	-.000568	0	0
5	MP BETA1	PY	-.000568	-.000568	0	0
6	MP BETA2	PY	-.000568	-.000568	0	0
7	MP BETA3	PY	-.000568	-.000568	0	0
8	MP BETA4	PY	-.000568	-.000568	0	0
9	MP GAMMA1	PY	-.000568	-.000568	0	0
10	MP GAMMA2	PY	-.000568	-.000568	0	0
11	MP GAMMA3	PY	-.000568	-.000568	0	0
12	MP GAMMA4	PY	-.000568	-.000568	0	0
13	RAIL3	PY	-.00037	-.00037	0	0
14	RAIL2	PY	-.00037	-.00037	0	0
15	RAIL1	PY	-.000185	-.000185	0	0
16	SO1A	PY	-.000798	-.000798	0	0
17	SO2A	PY	-.000798	-.000798	0	0
18	SO3A	PY	-.000798	-.000798	0	0
19	ANGLE1	PY	-.000598	-.000598	0	0
20	ANGLE2	PY	-.000598	-.000598	0	0
21	ANGLE3	PY	-.000598	-.000598	0	0
22	Corner1	PY	-.000598	-.000598	0	0
23	Corner2	PY	-.000598	-.000598	0	0
24	Corner3	PY	-.000598	-.000598	0	0
25	FACE3	PY	-.001	-.001	0	0
26	FACE2	PY	-.001	-.001	0	0
27	FACE1	PY	-.000598	-.000598	0	0
28	INNERFACE1	PY	-.000598	-.000598	0	0
29	INNERFACE2	PY	-.000598	-.000598	0	0
30	INNERFACE3	PY	-.000598	-.000598	0	0
31	KICKER1	PY	-.000997	-.000997	0	0
32	KICKER2	PY	-.000997	-.000997	0	0
33	KICKER3	PY	-.000997	-.000997	0	0
34	MP ALPHA1	PX	.000328	.000328	0	0
35	MP ALPHA2	PX	.000328	.000328	0	0
36	MP ALPHA3	PX	.000328	.000328	0	0
37	MP ALPHA4	PX	.000328	.000328	0	0
38	MP BETA1	PX	.000328	.000328	0	0
39	MP BETA2	PX	.000328	.000328	0	0
40	MP BETA3	PX	.000328	.000328	0	0
41	MP BETA4	PX	.000328	.000328	0	0
42	MP GAMMA1	PX	.000328	.000328	0	0
43	MP GAMMA2	PX	.000328	.000328	0	0
44	MP GAMMA3	PX	.000328	.000328	0	0
45	MP GAMMA4	PX	.000328	.000328	0	0
46	RAIL3	PX	.000214	.000214	0	0
47	RAIL2	PX	.000214	.000214	0	0
48	RAIL1	PX	.000107	.000107	0	0
49	SO1A	PX	.000461	.000461	0	0
50	SO2A	PX	.000461	.000461	0	0
51	SO3A	PX	.000461	.000461	0	0
52	ANGLE1	PX	.000345	.000345	0	0
53	ANGLE2	PX	.000345	.000345	0	0
54	ANGLE3	PX	.000345	.000345	0	0
55	Corner1	PX	.000345	.000345	0	0
56	Corner2	PX	.000345	.000345	0	0
57	Corner3	PX	.000345	.000345	0	0
58	FACE3	PX	.000691	.000691	0	0
59	FACE2	PX	.000691	.000691	0	0

Member Distributed Loads (BLC 26 : Maintanence (330)) (Continued)

	Member Label	Direction	Start Magnitude[...	End Magnitude[k...	Start Location[ft,...	End Location[ft,%]
60	FACE1	PX	.000345	.000345	0	0
61	INNERFACE1	PX	.000345	.000345	0	0
62	INNERFACE2	PX	.000345	.000345	0	0
63	INNERFACE3	PX	.000345	.000345	0	0
64	KICKER1	PX	.000576	.000576	0	0
65	KICKER2	PX	.000576	.000576	0	0
66	KICKER3	PX	.000576	.000576	0	0

Member Distributed Loads (BLC 27 : Ice Dead Load)

	Member Label	Direction	Start Magnitude[...	End Magnitude[k...	Start Location[ft,...	End Location[ft,%]
1	MP ALPHA1	Z	-.009	-.009	0	0
2	MP ALPHA2	Z	-.009	-.009	0	0
3	MP ALPHA3	Z	-.009	-.009	0	0
4	MP ALPHA4	Z	-.009	-.009	0	0
5	MP BETA1	Z	-.009	-.009	0	0
6	MP BETA2	Z	-.009	-.009	0	0
7	MP BETA3	Z	-.009	-.009	0	0
8	MP BETA4	Z	-.009	-.009	0	0
9	MP GAMMA1	Z	-.009	-.009	0	0
10	MP GAMMA2	Z	-.009	-.009	0	0
11	MP GAMMA3	Z	-.009	-.009	0	0
12	MP GAMMA4	Z	-.009	-.009	0	0
13	RAIL3	Z	-.009	-.009	0	0
14	RAIL2	Z	-.009	-.009	0	0
15	RAIL1	Z	-.009	-.009	0	0
16	SO1A	Z	-.026	-.026	0	0
17	SO2A	Z	-.026	-.026	0	0
18	SO3A	Z	-.026	-.026	0	0
19	ANGLE1	Z	-.013	-.013	0	0
20	ANGLE2	Z	-.013	-.013	0	0
21	ANGLE3	Z	-.013	-.013	0	0
22	Corner1	Z	-.02	-.02	0	0
23	Corner2	Z	-.02	-.02	0	0
24	Corner3	Z	-.02	-.02	0	0
25	FACE3	Z	-.013	-.013	0	0
26	FACE2	Z	-.013	-.013	0	0
27	FACE1	Z	-.013	-.013	0	0
28	INNERFACE1	Z	-.013	-.013	0	0
29	INNERFACE2	Z	-.013	-.013	0	0
30	INNERFACE3	Z	-.013	-.013	0	0
31	KICKER1	Z	-.018	-.018	0	0
32	KICKER2	Z	-.018	-.018	0	0
33	KICKER3	Z	-.018	-.018	0	0

Member Distributed Loads (BLC 28 : Ice Wind Load (0))

	Member Label	Direction	Start Magnitude[...	End Magnitude[k...	Start Location[ft,...	End Location[ft,%]
1	MP ALPHA1	PY	-.004	-.004	0	0
2	MP ALPHA2	PY	-.004	-.004	0	0
3	MP ALPHA3	PY	-.004	-.004	0	0
4	MP ALPHA4	PY	-.004	-.004	0	0
5	MP BETA1	PY	-.004	-.004	0	0
6	MP BETA2	PY	-.004	-.004	0	0
7	MP BETA3	PY	-.004	-.004	0	0
8	MP BETA4	PY	-.004	-.004	0	0
9	MP GAMMA1	PY	-.004	-.004	0	0
10	MP GAMMA2	PY	-.004	-.004	0	0

Member Distributed Loads (BLC 28 : Ice Wind Load (0)) (Continued)

	Member Label	Direction	Start Magnitude[...	End Magnitude[k...	Start Location[ft,...	End Location[ft,%]
11	MP GAMMA3	PY	-.004	-.004	0	0
12	MP GAMMA4	PY	-.004	-.004	0	0
13	RAIL3	PY	-.004	-.004	0	0
14	RAIL2	PY	-.004	-.004	0	0
15	RAIL1	PY	-.002	-.002	0	0
16	SO1A	PY	-.005	-.005	0	0
17	SO2A	PY	-.005	-.005	0	0
18	SO3A	PY	-.005	-.005	0	0
19	ANGLE1	PY	-.004	-.004	0	0
20	ANGLE2	PY	-.004	-.004	0	0
21	ANGLE3	PY	-.004	-.004	0	0
22	Corner1	PY	-.004	-.004	0	0
23	Corner2	PY	-.004	-.004	0	0
24	Corner3	PY	-.004	-.004	0	0
25	FACE3	PY	-.008	-.008	0	0
26	FACE2	PY	-.008	-.008	0	0
27	FACE1	PY	-.004	-.004	0	0
28	INNERFACE1	PY	-.004	-.004	0	0
29	INNERFACE2	PY	-.004	-.004	0	0
30	INNERFACE3	PY	-.004	-.004	0	0
31	KICKER1	PY	-.008	-.008	0	0
32	KICKER2	PY	-.008	-.008	0	0
33	KICKER3	PY	-.008	-.008	0	0

Member Distributed Loads (BLC 29 : Ice Wind Load (30))

	Member Label	Direction	Start Magnitude[...	End Magnitude[k...	Start Location[ft,...	End Location[ft,%]
1	MP ALPHA1	PY	-.004	-.004	0	0
2	MP ALPHA2	PY	-.004	-.004	0	0
3	MP ALPHA3	PY	-.004	-.004	0	0
4	MP ALPHA4	PY	-.004	-.004	0	0
5	MP BETA1	PY	-.004	-.004	0	0
6	MP BETA2	PY	-.004	-.004	0	0
7	MP BETA3	PY	-.004	-.004	0	0
8	MP BETA4	PY	-.004	-.004	0	0
9	MP GAMMA1	PY	-.004	-.004	0	0
10	MP GAMMA2	PY	-.004	-.004	0	0
11	MP GAMMA3	PY	-.004	-.004	0	0
12	MP GAMMA4	PY	-.004	-.004	0	0
13	RAIL3	PY	-.004	-.004	0	0
14	RAIL2	PY	-.004	-.004	0	0
15	RAIL1	PY	-.002	-.002	0	0
16	SO1A	PY	-.004	-.004	0	0
17	SO2A	PY	-.004	-.004	0	0
18	SO3A	PY	-.004	-.004	0	0
19	ANGLE1	PY	-.004	-.004	0	0
20	ANGLE2	PY	-.004	-.004	0	0
21	ANGLE3	PY	-.004	-.004	0	0
22	Corner1	PY	-.004	-.004	0	0
23	Corner2	PY	-.004	-.004	0	0
24	Corner3	PY	-.004	-.004	0	0
25	FACE3	PY	-.007	-.007	0	0
26	FACE2	PY	-.007	-.007	0	0
27	FACE1	PY	-.004	-.004	0	0
28	INNERFACE1	PY	-.004	-.004	0	0
29	INNERFACE2	PY	-.004	-.004	0	0
30	INNERFACE3	PY	-.004	-.004	0	0

Member Distributed Loads (BLC 29 : Ice Wind Load (30)) (Continued)

	Member Label	Direction	Start Magnitude[...	End Magnitude[k...	Start Location[ft,...	End Location[ft,%]
31	KICKER1	PY	-.007	-.007	0	0
32	KICKER2	PY	-.007	-.007	0	0
33	KICKER3	PY	-.007	-.007	0	0
34	MP ALPHA1	PX	-.002	-.002	0	0
35	MP ALPHA2	PX	-.002	-.002	0	0
36	MP ALPHA3	PX	-.002	-.002	0	0
37	MP ALPHA4	PX	-.002	-.002	0	0
38	MP BETA1	PX	-.002	-.002	0	0
39	MP BETA2	PX	-.002	-.002	0	0
40	MP BETA3	PX	-.002	-.002	0	0
41	MP BETA4	PX	-.002	-.002	0	0
42	MP GAMMA1	PX	-.002	-.002	0	0
43	MP GAMMA2	PX	-.002	-.002	0	0
44	MP GAMMA3	PX	-.002	-.002	0	0
45	MP GAMMA4	PX	-.002	-.002	0	0
46	RAIL3	PX	-.002	-.002	0	0
47	RAIL2	PX	-.002	-.002	0	0
48	RAIL1	PX	-.001	-.001	0	0
49	SO1A	PX	-.002	-.002	0	0
50	SO2A	PX	-.002	-.002	0	0
51	SO3A	PX	-.002	-.002	0	0
52	ANGLE1	PX	-.002	-.002	0	0
53	ANGLE2	PX	-.002	-.002	0	0
54	ANGLE3	PX	-.002	-.002	0	0
55	Corner1	PX	-.002	-.002	0	0
56	Corner2	PX	-.002	-.002	0	0
57	Corner3	PX	-.002	-.002	0	0
58	FACE3	PX	-.004	-.004	0	0
59	FACE2	PX	-.004	-.004	0	0
60	FACE1	PX	-.002	-.002	0	0
61	INNERFACE1	PX	-.002	-.002	0	0
62	INNERFACE2	PX	-.002	-.002	0	0
63	INNERFACE3	PX	-.002	-.002	0	0
64	KICKER1	PX	-.004	-.004	0	0
65	KICKER2	PX	-.004	-.004	0	0
66	KICKER3	PX	-.004	-.004	0	0

Member Distributed Loads (BLC 30 : Ice Wind Load (60))

	Member Label	Direction	Start Magnitude[...	End Magnitude[k...	Start Location[ft,...	End Location[ft,%]
1	MP ALPHA1	PY	-.002	-.002	0	0
2	MP ALPHA2	PY	-.002	-.002	0	0
3	MP ALPHA3	PY	-.002	-.002	0	0
4	MP ALPHA4	PY	-.002	-.002	0	0
5	MP BETA1	PY	-.002	-.002	0	0
6	MP BETA2	PY	-.002	-.002	0	0
7	MP BETA3	PY	-.002	-.002	0	0
8	MP BETA4	PY	-.002	-.002	0	0
9	MP GAMMA1	PY	-.002	-.002	0	0
10	MP GAMMA2	PY	-.002	-.002	0	0
11	MP GAMMA3	PY	-.002	-.002	0	0
12	MP GAMMA4	PY	-.002	-.002	0	0
13	RAIL3	PY	-.002	-.002	0	0
14	RAIL2	PY	-.002	-.002	0	0
15	RAIL1	PY	-.001	-.001	0	0
16	SO1A	PY	-.002	-.002	0	0
17	SO2A	PY	-.002	-.002	0	0

Member Distributed Loads (BLC 30 : Ice Wind Load (60)) (Continued)

	Member Label	Direction	Start Magnitude[...	End Magnitude[k...	Start Location[ft,...	End Location[ft,%]
18	SO3A	PY	-.002	-.002	0	0
19	ANGLE1	PY	-.002	-.002	0	0
20	ANGLE2	PY	-.002	-.002	0	0
21	ANGLE3	PY	-.002	-.002	0	0
22	Corner1	PY	-.002	-.002	0	0
23	Corner2	PY	-.002	-.002	0	0
24	Corner3	PY	-.002	-.002	0	0
25	FACE3	PY	-.004	-.004	0	0
26	FACE2	PY	-.004	-.004	0	0
27	FACE1	PY	-.002	-.002	0	0
28	INNERFACE1	PY	-.002	-.002	0	0
29	INNERFACE2	PY	-.002	-.002	0	0
30	INNERFACE3	PY	-.002	-.002	0	0
31	KICKER1	PY	-.004	-.004	0	0
32	KICKER2	PY	-.004	-.004	0	0
33	KICKER3	PY	-.004	-.004	0	0
34	MP ALPHA1	PX	-.004	-.004	0	0
35	MP ALPHA2	PX	-.004	-.004	0	0
36	MP ALPHA3	PX	-.004	-.004	0	0
37	MP ALPHA4	PX	-.004	-.004	0	0
38	MP BETA1	PX	-.004	-.004	0	0
39	MP BETA2	PX	-.004	-.004	0	0
40	MP BETA3	PX	-.004	-.004	0	0
41	MP BETA4	PX	-.004	-.004	0	0
42	MP GAMMA1	PX	-.004	-.004	0	0
43	MP GAMMA2	PX	-.004	-.004	0	0
44	MP GAMMA3	PX	-.004	-.004	0	0
45	MP GAMMA4	PX	-.004	-.004	0	0
46	RAIL3	PX	-.004	-.004	0	0
47	RAIL2	PX	-.004	-.004	0	0
48	RAIL1	PX	-.002	-.002	0	0
49	SO1A	PX	-.004	-.004	0	0
50	SO2A	PX	-.004	-.004	0	0
51	SO3A	PX	-.004	-.004	0	0
52	ANGLE1	PX	-.004	-.004	0	0
53	ANGLE2	PX	-.004	-.004	0	0
54	ANGLE3	PX	-.004	-.004	0	0
55	Corner1	PX	-.004	-.004	0	0
56	Corner2	PX	-.004	-.004	0	0
57	Corner3	PX	-.004	-.004	0	0
58	FACE3	PX	-.007	-.007	0	0
59	FACE2	PX	-.007	-.007	0	0
60	FACE1	PX	-.004	-.004	0	0
61	INNERFACE1	PX	-.004	-.004	0	0
62	INNERFACE2	PX	-.004	-.004	0	0
63	INNERFACE3	PX	-.004	-.004	0	0
64	KICKER1	PX	-.007	-.007	0	0
65	KICKER2	PX	-.007	-.007	0	0
66	KICKER3	PX	-.007	-.007	0	0

Member Distributed Loads (BLC 31 : Ice Wind Load (90))

	Member Label	Direction	Start Magnitude[...	End Magnitude[k...	Start Location[ft,...	End Location[ft,%]
1	MP ALPHA1	PX	-.004	-.004	0	0
2	MP ALPHA2	PX	-.004	-.004	0	0
3	MP ALPHA3	PX	-.004	-.004	0	0
4	MP ALPHA4	PX	-.004	-.004	0	0

Member Distributed Loads (BLC 31 : Ice Wind Load (90)) (Continued)

	Member Label	Direction	Start Magnitude[...	End Magnitude[k...	Start Location[ft,...	End Location[ft,%]
5	MP BETA1	PX	-.004	-.004	0	0
6	MP BETA2	PX	-.004	-.004	0	0
7	MP BETA3	PX	-.004	-.004	0	0
8	MP BETA4	PX	-.004	-.004	0	0
9	MP GAMMA1	PX	-.004	-.004	0	0
10	MP GAMMA2	PX	-.004	-.004	0	0
11	MP GAMMA3	PX	-.004	-.004	0	0
12	MP GAMMA4	PX	-.004	-.004	0	0
13	RAIL1	PX	-.004	-.004	0	0
14	RAIL2	PX	-.004	-.004	0	0
15	RAIL3	PX	-.002	-.002	0	0
16	SO1A	PX	-.005	-.005	0	0
17	SO2A	PX	-.005	-.005	0	0
18	SO3A	PX	-.005	-.005	0	0
19	ANGLE1	PX	-.004	-.004	0	0
20	ANGLE2	PX	-.004	-.004	0	0
21	ANGLE3	PX	-.004	-.004	0	0
22	Corner1	PX	-.004	-.004	0	0
23	Corner2	PX	-.004	-.004	0	0
24	Corner3	PX	-.004	-.004	0	0
25	FACE1	PX	-.008	-.008	0	0
26	FACE2	PX	-.008	-.008	0	0
27	FACE3	PX	-.004	-.004	0	0
28	INNERFACE1	PX	-.004	-.004	0	0
29	INNERFACE2	PX	-.004	-.004	0	0
30	INNERFACE3	PX	-.004	-.004	0	0
31	KICKER1	PX	-.008	-.008	0	0
32	KICKER2	PX	-.008	-.008	0	0
33	KICKER3	PX	-.008	-.008	0	0

Member Distributed Loads (BLC 32 : Ice Wind Load (120))

	Member Label	Direction	Start Magnitude[...	End Magnitude[k...	Start Location[ft,...	End Location[ft,%]
1	MP ALPHA1	PY	.002	.002	0	0
2	MP ALPHA2	PY	.002	.002	0	0
3	MP ALPHA3	PY	.002	.002	0	0
4	MP ALPHA4	PY	.002	.002	0	0
5	MP BETA1	PY	.002	.002	0	0
6	MP BETA2	PY	.002	.002	0	0
7	MP BETA3	PY	.002	.002	0	0
8	MP BETA4	PY	.002	.002	0	0
9	MP GAMMA1	PY	.002	.002	0	0
10	MP GAMMA2	PY	.002	.002	0	0
11	MP GAMMA3	PY	.002	.002	0	0
12	MP GAMMA4	PY	.002	.002	0	0
13	RAIL1	PY	.002	.002	0	0
14	RAIL2	PY	.002	.002	0	0
15	RAIL3	PY	.001	.001	0	0
16	SO1A	PY	.002	.002	0	0
17	SO2A	PY	.002	.002	0	0
18	SO3A	PY	.002	.002	0	0
19	ANGLE1	PY	.002	.002	0	0
20	ANGLE2	PY	.002	.002	0	0
21	ANGLE3	PY	.002	.002	0	0
22	Corner1	PY	.002	.002	0	0
23	Corner2	PY	.002	.002	0	0
24	Corner3	PY	.002	.002	0	0

Member Distributed Loads (BLC 32 : Ice Wind Load (120)) (Continued)

	Member Label	Direction	Start Magnitude[...	End Magnitude[k...	Start Location[ft,...	End Location[ft,%]
25	FACE1	PY	.004	.004	0	0
26	FACE2	PY	.004	.004	0	0
27	FACE3	PY	.002	.002	0	0
28	INNERFACE1	PY	.002	.002	0	0
29	INNERFACE2	PY	.002	.002	0	0
30	INNERFACE3	PY	.002	.002	0	0
31	KICKER1	PY	.004	.004	0	0
32	KICKER2	PY	.004	.004	0	0
33	KICKER3	PY	.004	.004	0	0
34	MP ALPHA1	PX	-.004	-.004	0	0
35	MP ALPHA2	PX	-.004	-.004	0	0
36	MP ALPHA3	PX	-.004	-.004	0	0
37	MP ALPHA4	PX	-.004	-.004	0	0
38	MP BETA1	PX	-.004	-.004	0	0
39	MP BETA2	PX	-.004	-.004	0	0
40	MP BETA3	PX	-.004	-.004	0	0
41	MP BETA4	PX	-.004	-.004	0	0
42	MP GAMMA1	PX	-.004	-.004	0	0
43	MP GAMMA2	PX	-.004	-.004	0	0
44	MP GAMMA3	PX	-.004	-.004	0	0
45	MP GAMMA4	PX	-.004	-.004	0	0
46	RAIL1	PX	-.004	-.004	0	0
47	RAIL2	PX	-.004	-.004	0	0
48	RAIL3	PX	-.002	-.002	0	0
49	SO1A	PX	-.004	-.004	0	0
50	SO2A	PX	-.004	-.004	0	0
51	SO3A	PX	-.004	-.004	0	0
52	ANGLE1	PX	-.004	-.004	0	0
53	ANGLE2	PX	-.004	-.004	0	0
54	ANGLE3	PX	-.004	-.004	0	0
55	Corner1	PX	-.004	-.004	0	0
56	Corner2	PX	-.004	-.004	0	0
57	Corner3	PX	-.004	-.004	0	0
58	FACE1	PX	-.007	-.007	0	0
59	FACE2	PX	-.007	-.007	0	0
60	FACE3	PX	-.004	-.004	0	0
61	INNERFACE1	PX	-.004	-.004	0	0
62	INNERFACE2	PX	-.004	-.004	0	0
63	INNERFACE3	PX	-.004	-.004	0	0
64	KICKER1	PX	-.007	-.007	0	0
65	KICKER2	PX	-.007	-.007	0	0
66	KICKER3	PX	-.007	-.007	0	0

Member Distributed Loads (BLC 33 : Ice Wind Load (150))

	Member Label	Direction	Start Magnitude[...	End Magnitude[k...	Start Location[ft,...	End Location[ft,%]
1	MP ALPHA1	PY	.004	.004	0	0
2	MP ALPHA2	PY	.004	.004	0	0
3	MP ALPHA3	PY	.004	.004	0	0
4	MP ALPHA4	PY	.004	.004	0	0
5	MP BETA1	PY	.004	.004	0	0
6	MP BETA2	PY	.004	.004	0	0
7	MP BETA3	PY	.004	.004	0	0
8	MP BETA4	PY	.004	.004	0	0
9	MP GAMMA1	PY	.004	.004	0	0
10	MP GAMMA2	PY	.004	.004	0	0
11	MP GAMMA3	PY	.004	.004	0	0

Member Distributed Loads (BLC 33 : Ice Wind Load (150)) (Continued)

	Member Label	Direction	Start Magnitude[...	End Magnitude[k...	Start Location[ft,...	End Location[ft,%]
12	MP GAMMA4	PY	.004	.004	0	0
13	RAIL1	PY	.004	.004	0	0
14	RAIL2	PY	.004	.004	0	0
15	RAIL3	PY	.002	.002	0	0
16	SO1A	PY	.004	.004	0	0
17	SO2A	PY	.004	.004	0	0
18	SO3A	PY	.004	.004	0	0
19	ANGLE1	PY	.004	.004	0	0
20	ANGLE2	PY	.004	.004	0	0
21	ANGLE3	PY	.004	.004	0	0
22	Corner1	PY	.004	.004	0	0
23	Corner2	PY	.004	.004	0	0
24	Corner3	PY	.004	.004	0	0
25	FACE1	PY	.007	.007	0	0
26	FACE2	PY	.007	.007	0	0
27	FACE3	PY	.004	.004	0	0
28	INNERFACE1	PY	.004	.004	0	0
29	INNERFACE2	PY	.004	.004	0	0
30	INNERFACE3	PY	.004	.004	0	0
31	KICKER1	PY	.007	.007	0	0
32	KICKER2	PY	.007	.007	0	0
33	KICKER3	PY	.007	.007	0	0
34	MP ALPHA1	PX	-.002	-.002	0	0
35	MP ALPHA2	PX	-.002	-.002	0	0
36	MP ALPHA3	PX	-.002	-.002	0	0
37	MP ALPHA4	PX	-.002	-.002	0	0
38	MP BETA1	PX	-.002	-.002	0	0
39	MP BETA2	PX	-.002	-.002	0	0
40	MP BETA3	PX	-.002	-.002	0	0
41	MP BETA4	PX	-.002	-.002	0	0
42	MP GAMMA1	PX	-.002	-.002	0	0
43	MP GAMMA2	PX	-.002	-.002	0	0
44	MP GAMMA3	PX	-.002	-.002	0	0
45	MP GAMMA4	PX	-.002	-.002	0	0
46	RAIL1	PX	-.002	-.002	0	0
47	RAIL2	PX	-.002	-.002	0	0
48	RAIL3	PX	-.001	-.001	0	0
49	SO1A	PX	-.002	-.002	0	0
50	SO2A	PX	-.002	-.002	0	0
51	SO3A	PX	-.002	-.002	0	0
52	ANGLE1	PX	-.002	-.002	0	0
53	ANGLE2	PX	-.002	-.002	0	0
54	ANGLE3	PX	-.002	-.002	0	0
55	Corner1	PX	-.002	-.002	0	0
56	Corner2	PX	-.002	-.002	0	0
57	Corner3	PX	-.002	-.002	0	0
58	FACE1	PX	-.004	-.004	0	0
59	FACE2	PX	-.004	-.004	0	0
60	FACE3	PX	-.002	-.002	0	0
61	INNERFACE1	PX	-.002	-.002	0	0
62	INNERFACE2	PX	-.002	-.002	0	0
63	INNERFACE3	PX	-.002	-.002	0	0
64	KICKER1	PX	-.004	-.004	0	0
65	KICKER2	PX	-.004	-.004	0	0
66	KICKER3	PX	-.004	-.004	0	0

Member Distributed Loads (BLC 34 : Ice Wind Load (180))

	Member Label	Direction	Start Magnitude[...	End Magnitude[k...	Start Location[ft,...	End Location[ft,%]
1	MP ALPHA1	PY	.004	.004	0	0
2	MP ALPHA2	PY	.004	.004	0	0
3	MP ALPHA3	PY	.004	.004	0	0
4	MP ALPHA4	PY	.004	.004	0	0
5	MP BETA1	PY	.004	.004	0	0
6	MP BETA2	PY	.004	.004	0	0
7	MP BETA3	PY	.004	.004	0	0
8	MP BETA4	PY	.004	.004	0	0
9	MP GAMMA1	PY	.004	.004	0	0
10	MP GAMMA2	PY	.004	.004	0	0
11	MP GAMMA3	PY	.004	.004	0	0
12	MP GAMMA4	PY	.004	.004	0	0
13	RAIL1	PY	.004	.004	0	0
14	RAIL2	PY	.004	.004	0	0
15	RAIL3	PY	.002	.002	0	0
16	SO1A	PY	.005	.005	0	0
17	SO2A	PY	.005	.005	0	0
18	SO3A	PY	.005	.005	0	0
19	ANGLE1	PY	.004	.004	0	0
20	ANGLE2	PY	.004	.004	0	0
21	ANGLE3	PY	.004	.004	0	0
22	Corner1	PY	.004	.004	0	0
23	Corner2	PY	.004	.004	0	0
24	Corner3	PY	.004	.004	0	0
25	FACE1	PY	.008	.008	0	0
26	FACE2	PY	.008	.008	0	0
27	FACE3	PY	.004	.004	0	0
28	INNERFACE1	PY	.004	.004	0	0
29	INNERFACE2	PY	.004	.004	0	0
30	INNERFACE3	PY	.004	.004	0	0
31	KICKER1	PY	.008	.008	0	0
32	KICKER2	PY	.008	.008	0	0
33	KICKER3	PY	.008	.008	0	0

Member Distributed Loads (BLC 35 : Ice Wind Load (210))

	Member Label	Direction	Start Magnitude[...	End Magnitude[k...	Start Location[ft,...	End Location[ft,%]
1	MP ALPHA1	PY	.004	.004	0	0
2	MP ALPHA2	PY	.004	.004	0	0
3	MP ALPHA3	PY	.004	.004	0	0
4	MP ALPHA4	PY	.004	.004	0	0
5	MP BETA1	PY	.004	.004	0	0
6	MP BETA2	PY	.004	.004	0	0
7	MP BETA3	PY	.004	.004	0	0
8	MP BETA4	PY	.004	.004	0	0
9	MP GAMMA1	PY	.004	.004	0	0
10	MP GAMMA2	PY	.004	.004	0	0
11	MP GAMMA3	PY	.004	.004	0	0
12	MP GAMMA4	PY	.004	.004	0	0
13	RAIL1	PY	.004	.004	0	0
14	RAIL3	PY	.004	.004	0	0
15	RAIL2	PY	.002	.002	0	0
16	SO1A	PY	.004	.004	0	0
17	SO2A	PY	.004	.004	0	0
18	SO3A	PY	.004	.004	0	0
19	ANGLE1	PY	.004	.004	0	0
20	ANGLE2	PY	.004	.004	0	0

Member Distributed Loads (BLC 35 : Ice Wind Load (210)) (Continued)

	Member Label	Direction	Start Magnitude[...	End Magnitude[k...	Start Location[ft,...	End Location[ft,%]
21	ANGLE3	PY	.004	.004	0	0
22	Corner1	PY	.004	.004	0	0
23	Corner2	PY	.004	.004	0	0
24	Corner3	PY	.004	.004	0	0
25	FACE1	PY	.007	.007	0	0
26	FACE3	PY	.007	.007	0	0
27	FACE2	PY	.004	.004	0	0
28	INNERFACE1	PY	.004	.004	0	0
29	INNERFACE2	PY	.004	.004	0	0
30	INNERFACE3	PY	.004	.004	0	0
31	KICKER1	PY	.007	.007	0	0
32	KICKER2	PY	.007	.007	0	0
33	KICKER3	PY	.007	.007	0	0
34	MP ALPHA1	PX	.002	.002	0	0
35	MP ALPHA2	PX	.002	.002	0	0
36	MP ALPHA3	PX	.002	.002	0	0
37	MP ALPHA4	PX	.002	.002	0	0
38	MP BETA1	PX	.002	.002	0	0
39	MP BETA2	PX	.002	.002	0	0
40	MP BETA3	PX	.002	.002	0	0
41	MP BETA4	PX	.002	.002	0	0
42	MP GAMMA1	PX	.002	.002	0	0
43	MP GAMMA2	PX	.002	.002	0	0
44	MP GAMMA3	PX	.002	.002	0	0
45	MP GAMMA4	PX	.002	.002	0	0
46	RAIL1	PX	.002	.002	0	0
47	RAIL3	PX	.002	.002	0	0
48	RAIL2	PX	.001	.001	0	0
49	SO1A	PX	.002	.002	0	0
50	SO2A	PX	.002	.002	0	0
51	SO3A	PX	.002	.002	0	0
52	ANGLE1	PX	.002	.002	0	0
53	ANGLE2	PX	.002	.002	0	0
54	ANGLE3	PX	.002	.002	0	0
55	Corner1	PX	.002	.002	0	0
56	Corner2	PX	.002	.002	0	0
57	Corner3	PX	.002	.002	0	0
58	FACE1	PX	.004	.004	0	0
59	FACE3	PX	.004	.004	0	0
60	FACE2	PX	.002	.002	0	0
61	INNERFACE1	PX	.002	.002	0	0
62	INNERFACE2	PX	.002	.002	0	0
63	INNERFACE3	PX	.002	.002	0	0
64	KICKER1	PX	.004	.004	0	0
65	KICKER2	PX	.004	.004	0	0
66	KICKER3	PX	.004	.004	0	0

Member Distributed Loads (BLC 36 : Ice Wind Load (240))

	Member Label	Direction	Start Magnitude[...	End Magnitude[k...	Start Location[ft,...	End Location[ft,%]
1	MP ALPHA1	PY	.002	.002	0	0
2	MP ALPHA2	PY	.002	.002	0	0
3	MP ALPHA3	PY	.002	.002	0	0
4	MP ALPHA4	PY	.002	.002	0	0
5	MP BETA1	PY	.002	.002	0	0
6	MP BETA2	PY	.002	.002	0	0
7	MP BETA3	PY	.002	.002	0	0

Member Distributed Loads (BLC 36 : Ice Wind Load (240)) (Continued)

	Member Label	Direction	Start Magnitude[...	End Magnitude[k...	Start Location[ft,...	End Location[ft,%]
8	MP BETA4	PY	.002	.002	0	0
9	MP GAMMA1	PY	.002	.002	0	0
10	MP GAMMA2	PY	.002	.002	0	0
11	MP GAMMA3	PY	.002	.002	0	0
12	MP GAMMA4	PY	.002	.002	0	0
13	RAIL1	PY	.002	.002	0	0
14	RAIL3	PY	.002	.002	0	0
15	RAIL2	PY	.001	.001	0	0
16	SO1A	PY	.002	.002	0	0
17	SO2A	PY	.002	.002	0	0
18	SO3A	PY	.002	.002	0	0
19	ANGLE1	PY	.002	.002	0	0
20	ANGLE2	PY	.002	.002	0	0
21	ANGLE3	PY	.002	.002	0	0
22	Corner1	PY	.002	.002	0	0
23	Corner2	PY	.002	.002	0	0
24	Corner3	PY	.002	.002	0	0
25	FACE1	PY	.004	.004	0	0
26	FACE3	PY	.004	.004	0	0
27	FACE2	PY	.002	.002	0	0
28	INNERFACE1	PY	.002	.002	0	0
29	INNERFACE2	PY	.002	.002	0	0
30	INNERFACE3	PY	.002	.002	0	0
31	KICKER1	PY	.004	.004	0	0
32	KICKER2	PY	.004	.004	0	0
33	KICKER3	PY	.004	.004	0	0
34	MP ALPHA1	PX	.004	.004	0	0
35	MP ALPHA2	PX	.004	.004	0	0
36	MP ALPHA3	PX	.004	.004	0	0
37	MP ALPHA4	PX	.004	.004	0	0
38	MP BETA1	PX	.004	.004	0	0
39	MP BETA2	PX	.004	.004	0	0
40	MP BETA3	PX	.004	.004	0	0
41	MP BETA4	PX	.004	.004	0	0
42	MP GAMMA1	PX	.004	.004	0	0
43	MP GAMMA2	PX	.004	.004	0	0
44	MP GAMMA3	PX	.004	.004	0	0
45	MP GAMMA4	PX	.004	.004	0	0
46	RAIL1	PX	.004	.004	0	0
47	RAIL3	PX	.004	.004	0	0
48	RAIL2	PX	.002	.002	0	0
49	SO1A	PX	.004	.004	0	0
50	SO2A	PX	.004	.004	0	0
51	SO3A	PX	.004	.004	0	0
52	ANGLE1	PX	.004	.004	0	0
53	ANGLE2	PX	.004	.004	0	0
54	ANGLE3	PX	.004	.004	0	0
55	Corner1	PX	.004	.004	0	0
56	Corner2	PX	.004	.004	0	0
57	Corner3	PX	.004	.004	0	0
58	FACE1	PX	.007	.007	0	0
59	FACE3	PX	.007	.007	0	0
60	FACE2	PX	.004	.004	0	0
61	INNERFACE1	PX	.004	.004	0	0
62	INNERFACE2	PX	.004	.004	0	0
63	INNERFACE3	PX	.004	.004	0	0
64	KICKER1	PX	.007	.007	0	0

Member Distributed Loads (BLC 36 : Ice Wind Load (240)) (Continued)

	Member Label	Direction	Start Magnitude[...	End Magnitude[k...	Start Location[ft,...	End Location[ft,%]
65	KICKER2	PX	.007	.007	0	0
66	KICKER3	PX	.007	.007	0	0

Member Distributed Loads (BLC 37 : Ice Wind Load (270))

	Member Label	Direction	Start Magnitude[...	End Magnitude[k...	Start Location[ft,...	End Location[ft,%]
1	MP ALPHA1	PX	.004	.004	0	0
2	MP ALPHA2	PX	.004	.004	0	0
3	MP ALPHA3	PX	.004	.004	0	0
4	MP ALPHA4	PX	.004	.004	0	0
5	MP BETA1	PX	.004	.004	0	0
6	MP BETA2	PX	.004	.004	0	0
7	MP BETA3	PX	.004	.004	0	0
8	MP BETA4	PX	.004	.004	0	0
9	MP GAMMA1	PX	.004	.004	0	0
10	MP GAMMA2	PX	.004	.004	0	0
11	MP GAMMA3	PX	.004	.004	0	0
12	MP GAMMA4	PX	.004	.004	0	0
13	RAIL1	PX	.004	.004	0	0
14	RAIL3	PX	.004	.004	0	0
15	RAIL2	PX	.002	.002	0	0
16	SO1A	PX	.005	.005	0	0
17	SO2A	PX	.005	.005	0	0
18	SO3A	PX	.005	.005	0	0
19	ANGLE1	PX	.004	.004	0	0
20	ANGLE2	PX	.004	.004	0	0
21	ANGLE3	PX	.004	.004	0	0
22	Corner1	PX	.004	.004	0	0
23	Corner2	PX	.004	.004	0	0
24	Corner3	PX	.004	.004	0	0
25	FACE1	PX	.008	.008	0	0
26	FACE3	PX	.008	.008	0	0
27	FACE2	PX	.004	.004	0	0
28	INNERFACE1	PX	.004	.004	0	0
29	INNERFACE2	PX	.004	.004	0	0
30	INNERFACE3	PX	.004	.004	0	0
31	KICKER1	PX	.008	.008	0	0
32	KICKER2	PX	.008	.008	0	0
33	KICKER3	PX	.008	.008	0	0

Member Distributed Loads (BLC 38 : Ice Wind Load (300))

	Member Label	Direction	Start Magnitude[...	End Magnitude[k...	Start Location[ft,...	End Location[ft,%]
1	MP ALPHA1	PY	-.002	-.002	0	0
2	MP ALPHA2	PY	-.002	-.002	0	0
3	MP ALPHA3	PY	-.002	-.002	0	0
4	MP ALPHA4	PY	-.002	-.002	0	0
5	MP BETA1	PY	-.002	-.002	0	0
6	MP BETA2	PY	-.002	-.002	0	0
7	MP BETA3	PY	-.002	-.002	0	0
8	MP BETA4	PY	-.002	-.002	0	0
9	MP GAMMA1	PY	-.002	-.002	0	0
10	MP GAMMA2	PY	-.002	-.002	0	0
11	MP GAMMA3	PY	-.002	-.002	0	0
12	MP GAMMA4	PY	-.002	-.002	0	0
13	RAIL1	PY	-.002	-.002	0	0
14	RAIL3	PY	-.002	-.002	0	0
15	RAIL2	PY	-.001	-.001	0	0

Member Distributed Loads (BLC 38 : Ice Wind Load (300)) (Continued)

	Member Label	Direction	Start Magnitude[...	End Magnitude[k...	Start Location[ft,...	End Location[ft,%]
16	SO1A	PY	-.002	-.002	0	0
17	SO2A	PY	-.002	-.002	0	0
18	SO3A	PY	-.002	-.002	0	0
19	ANGLE1	PY	-.002	-.002	0	0
20	ANGLE2	PY	-.002	-.002	0	0
21	ANGLE3	PY	-.002	-.002	0	0
22	Corner1	PY	-.002	-.002	0	0
23	Corner2	PY	-.002	-.002	0	0
24	Corner3	PY	-.002	-.002	0	0
25	FACE1	PY	-.004	-.004	0	0
26	FACE3	PY	-.004	-.004	0	0
27	FACE2	PY	-.002	-.002	0	0
28	INNERFACE1	PY	-.002	-.002	0	0
29	INNERFACE2	PY	-.002	-.002	0	0
30	INNERFACE3	PY	-.002	-.002	0	0
31	KICKER1	PY	-.004	-.004	0	0
32	KICKER2	PY	-.004	-.004	0	0
33	KICKER3	PY	-.004	-.004	0	0
34	MP ALPHA1	PX	.004	.004	0	0
35	MP ALPHA2	PX	.004	.004	0	0
36	MP ALPHA3	PX	.004	.004	0	0
37	MP ALPHA4	PX	.004	.004	0	0
38	MP BETA1	PX	.004	.004	0	0
39	MP BETA2	PX	.004	.004	0	0
40	MP BETA3	PX	.004	.004	0	0
41	MP BETA4	PX	.004	.004	0	0
42	MP GAMMA1	PX	.004	.004	0	0
43	MP GAMMA2	PX	.004	.004	0	0
44	MP GAMMA3	PX	.004	.004	0	0
45	MP GAMMA4	PX	.004	.004	0	0
46	RAIL1	PX	.004	.004	0	0
47	RAIL3	PX	.004	.004	0	0
48	RAIL2	PX	.002	.002	0	0
49	SO1A	PX	.004	.004	0	0
50	SO2A	PX	.004	.004	0	0
51	SO3A	PX	.004	.004	0	0
52	ANGLE1	PX	.004	.004	0	0
53	ANGLE2	PX	.004	.004	0	0
54	ANGLE3	PX	.004	.004	0	0
55	Corner1	PX	.004	.004	0	0
56	Corner2	PX	.004	.004	0	0
57	Corner3	PX	.004	.004	0	0
58	FACE1	PX	.007	.007	0	0
59	FACE3	PX	.007	.007	0	0
60	FACE2	PX	.004	.004	0	0
61	INNERFACE1	PX	.004	.004	0	0
62	INNERFACE2	PX	.004	.004	0	0
63	INNERFACE3	PX	.004	.004	0	0
64	KICKER1	PX	.007	.007	0	0
65	KICKER2	PX	.007	.007	0	0
66	KICKER3	PX	.007	.007	0	0

Member Distributed Loads (BLC 39 : Ice Wind Load (330))

	Member Label	Direction	Start Magnitude[...	End Magnitude[k...	Start Location[ft,...	End Location[ft,%]
1	MP ALPHA1	PY	-.004	-.004	0	0
2	MP ALPHA2	PY	-.004	-.004	0	0

Member Distributed Loads (BLC 39 : Ice Wind Load (330)) (Continued)

	Member Label	Direction	Start Magnitude[...	End Magnitude[k...	Start Location[ft,...	End Location[ft,%]
3	MP ALPHA3	PY	-.004	-.004	0	0
4	MP ALPHA4	PY	-.004	-.004	0	0
5	MP BETA1	PY	-.004	-.004	0	0
6	MP BETA2	PY	-.004	-.004	0	0
7	MP BETA3	PY	-.004	-.004	0	0
8	MP BETA4	PY	-.004	-.004	0	0
9	MP GAMMA1	PY	-.004	-.004	0	0
10	MP GAMMA2	PY	-.004	-.004	0	0
11	MP GAMMA3	PY	-.004	-.004	0	0
12	MP GAMMA4	PY	-.004	-.004	0	0
13	RAIL3	PY	-.004	-.004	0	0
14	RAIL2	PY	-.004	-.004	0	0
15	RAIL1	PY	-.002	-.002	0	0
16	SO1A	PY	-.004	-.004	0	0
17	SO2A	PY	-.004	-.004	0	0
18	SO3A	PY	-.004	-.004	0	0
19	ANGLE1	PY	-.004	-.004	0	0
20	ANGLE2	PY	-.004	-.004	0	0
21	ANGLE3	PY	-.004	-.004	0	0
22	Corner1	PY	-.004	-.004	0	0
23	Corner2	PY	-.004	-.004	0	0
24	Corner3	PY	-.004	-.004	0	0
25	FACE3	PY	-.007	-.007	0	0
26	FACE2	PY	-.007	-.007	0	0
27	FACE1	PY	-.004	-.004	0	0
28	INNERFACE1	PY	-.004	-.004	0	0
29	INNERFACE2	PY	-.004	-.004	0	0
30	INNERFACE3	PY	-.004	-.004	0	0
31	KICKER1	PY	-.007	-.007	0	0
32	KICKER2	PY	-.007	-.007	0	0
33	KICKER3	PY	-.007	-.007	0	0
34	MP ALPHA1	PX	.002	.002	0	0
35	MP ALPHA2	PX	.002	.002	0	0
36	MP ALPHA3	PX	.002	.002	0	0
37	MP ALPHA4	PX	.002	.002	0	0
38	MP BETA1	PX	.002	.002	0	0
39	MP BETA2	PX	.002	.002	0	0
40	MP BETA3	PX	.002	.002	0	0
41	MP BETA4	PX	.002	.002	0	0
42	MP GAMMA1	PX	.002	.002	0	0
43	MP GAMMA2	PX	.002	.002	0	0
44	MP GAMMA3	PX	.002	.002	0	0
45	MP GAMMA4	PX	.002	.002	0	0
46	RAIL3	PX	.002	.002	0	0
47	RAIL2	PX	.002	.002	0	0
48	RAIL1	PX	.001	.001	0	0
49	SO1A	PX	.002	.002	0	0
50	SO2A	PX	.002	.002	0	0
51	SO3A	PX	.002	.002	0	0
52	ANGLE1	PX	.002	.002	0	0
53	ANGLE2	PX	.002	.002	0	0
54	ANGLE3	PX	.002	.002	0	0
55	Corner1	PX	.002	.002	0	0
56	Corner2	PX	.002	.002	0	0
57	Corner3	PX	.002	.002	0	0
58	FACE3	PX	.004	.004	0	0
59	FACE2	PX	.004	.004	0	0

Member Distributed Loads (BLC 39 : Ice Wind Load (330)) (Continued)

	Member Label	Direction	Start Magnitude[...	End Magnitude[k...	Start Location[ft,...	End Location[ft,%]
60	FACE1	PX	.002	.002	0	0
61	INNERFACE1	PX	.002	.002	0	0
62	INNERFACE2	PX	.002	.002	0	0
63	INNERFACE3	PX	.002	.002	0	0
64	KICKER1	PX	.004	.004	0	0
65	KICKER2	PX	.004	.004	0	0
66	KICKER3	PX	.004	.004	0	0

Member Distributed Loads (BLC 43 : BLC 3 Transient Area Loads)

	Member Label	Direction	Start Magnitude[...	End Magnitude[k...	Start Location[ft,...	End Location[ft,%]
1	INNERFACE1	Z	-.01	-.01	.007	7.169
2	FACE1	Z	-.0002058	-.006	0	2
3	FACE1	Z	-.006	-.01	2	4
4	FACE1	Z	-.01	-.009	4	6
5	FACE1	Z	-.009	-.009	6	8
6	FACE1	Z	-.009	-.01	8	10
7	FACE1	Z	-.01	-.006	10	12
8	FACE1	Z	-.006	-.0002058	12	14
9	Corner3	Z	-.002	-.01	0	1.97
10	Corner3	Z	-.01	-.017	1.97	3.94
11	Corner2	Z	-.002	-.01	0	1.97
12	Corner2	Z	-.01	-.017	1.97	3.94
13	INNERFACE3	Z	-.01	-.01	.007	7.169
14	FACE3	Z	-.0002058	-.006	0	2
15	FACE3	Z	-.006	-.01	2	4
16	FACE3	Z	-.01	-.009	4	6
17	FACE3	Z	-.009	-.009	6	8
18	FACE3	Z	-.009	-.01	8	10
19	FACE3	Z	-.01	-.006	10	12
20	FACE3	Z	-.006	-.0002058	12	14
21	Corner1	Z	-.002	-.01	0	1.97
22	Corner1	Z	-.01	-.017	1.97	3.94
23	INNERFACE2	Z	-.01	-.01	.007	7.169
24	FACE2	Z	-.002	-.005	0	2.333
25	FACE2	Z	-.005	-.009	2.333	4.667
26	FACE2	Z	-.009	-.012	4.667	7
27	FACE2	Z	-.012	-.009	7	9.333
28	FACE2	Z	-.009	-.005	9.333	11.667
29	FACE2	Z	-.005	-.002	11.667	14

Member Distributed Loads (BLC 44 : BLC 27 Transient Area Loads)

	Member Label	Direction	Start Magnitude[...	End Magnitude[k...	Start Location[ft,...	End Location[ft,%]
1	INNERFACE1	Z	-.02	-.02	.007	7.169
2	FACE1	Z	-.0004115	-.012	0	2
3	FACE1	Z	-.012	-.019	2	4
4	FACE1	Z	-.019	-.018	4	6
5	FACE1	Z	-.018	-.018	6	8
6	FACE1	Z	-.018	-.019	8	10
7	FACE1	Z	-.019	-.012	10	12
8	FACE1	Z	-.012	-.0004115	12	14
9	Corner3	Z	-.004	-.019	0	1.97
10	Corner3	Z	-.019	-.034	1.97	3.94
11	Corner2	Z	-.004	-.019	0	1.97
12	Corner2	Z	-.019	-.034	1.97	3.94
13	INNERFACE3	Z	-.02	-.02	.007	7.169
14	FACE3	Z	-.0004115	-.012	0	2

Member Distributed Loads (BLC 44 : BLC 27 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude[...	End Magnitude[k...	Start Location[ft,...	End Location[ft,%]
15	FACE3	Z	-.012	-.019	2	4
16	FACE3	Z	-.019	-.018	4	6
17	FACE3	Z	-.018	-.018	6	8
18	FACE3	Z	-.018	-.019	8	10
19	FACE3	Z	-.019	-.012	10	12
20	FACE3	Z	-.012	-.0004115	12	14
21	Corner1	Z	-.004	-.019	0	1.97
22	Corner1	Z	-.019	-.034	1.97	3.94
23	INNERFACE2	Z	-.02	-.02	.007	7.169
24	FACE2	Z	-.004	-.01	0	2.333
25	FACE2	Z	-.01	-.018	2.333	4.667
26	FACE2	Z	-.018	-.023	4.667	7
27	FACE2	Z	-.023	-.018	7	9.333
28	FACE2	Z	-.018	-.01	9.333	11.667
29	FACE2	Z	-.01	-.004	11.667	14

Member Area Loads (BLC 3 : Dead Load)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N1	N22	N21	N2	Z	Two Way	-.01
2	N2	N21	N23	N4	Z	Two Way	-.01
3	N4	N23	N22	N1	Z	Two Way	-.01

Member Area Loads (BLC 27 : Ice Dead Load)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N1	N22	N21	N2	Z	Two Way	-.02
2	N2	N21	N23	N4	Z	Two Way	-.02
3	N4	N23	N22	N1	Z	Two Way	-.02

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	N88	max	.069	11	2.621	21	2.869	21	.87	21	0	11	.017	29
2		min	-.069	29	.149	2	.171	2	.085	2	0	12	-.017	11
3	N121A	max	-.165	26	-.099	26	3.019	9	-.043	26	.783	9	.014	17
4		min	-2.395	9	-1.38	9	.208	26	-.456	9	.073	26	-.016	35
5	N125B	max	2.366	33	-.082	11	2.988	33	-.035	14	-.06	14	.017	5
6		min	.14	14	-1.367	30	.173	14	-.455	33	-.781	33	-.015	23
7	N129C	max	3.949	11	1.198	2	1.948	12	-1.284	26	.01	8	2.73	8
8		min	-3.859	29	-1.207	20	.606	29	-4.43	9	-.01	29	-2.749	26
9	N129B	max	2.181	14	3.638	2	1.896	36	2.134	33	-1.065	14	3.003	2
10		min	-2.323	32	-3.636	20	.581	20	.627	14	-3.704	33	-2.989	20
11	N131	max	2.318	8	3.249	5	1.786	24	1.995	21	3.449	21	2.403	26
12		min	-2.149	26	-3.209	23	.576	5	.601	2	1.058	2	-2.593	8
13	Totals:	max	7.132	11	7.007	2	13.791	3						
14		min	-7.132	29	-7.101	20	4.804	20						

Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distribu...	Area(M...	Surface...
1	Live Load	DL					1			
2	Wind Load (0)	DL					48	33		
3	Dead Load	DL			-1.1		48		3	
4	Wind Load (30)	DL					96	66		
5	Wind Load (60)	DL					96	66		

Basic Load Cases (Continued)

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distribu..	Area(M...	Surface...
6	Wind Load (90)	DL					48	33		
7	Wind Load (120)	DL					96	66		
8	Wind Load (150)	DL					96	66		
9	Wind Load (180)	DL					48	33		
10	Wind Load (210)	DL					96	66		
11	Wind Load (240)	DL					96	66		
12	Wind Load (270)	DL					48	33		
13	Wind Load (300)	DL					96	66		
14	Wind Load (330)	DL					96	66		
15	Maintanence (0)	DL					48	33		
16	Maintanence (30)	DL					96	66		
17	Maintanence (60)	DL					96	66		
18	Maintanence (90)	DL					48	33		
19	Maintanence (120)	DL					96	66		
20	Maintanence (150)	DL					96	66		
21	Maintanence (180)	DL					48	33		
22	Maintanence (210)	DL					96	66		
23	Maintanence (240)	DL					96	66		
24	Maintanence (270)	DL					48	33		
25	Maintanence (300)	DL					96	66		
26	Maintanence (330)	DL					96	66		
27	Ice Dead Load	DL					48	33	3	
28	Ice Wind Load (0)	DL					48	33		
29	Ice Wind Load (30)	DL					96	66		
30	Ice Wind Load (60)	DL					96	66		
31	Ice Wind Load (90)	DL					48	33		
32	Ice Wind Load (120)	DL					96	66		
33	Ice Wind Load (150)	DL					96	66		
34	Ice Wind Load (180)	DL					48	33		
35	Ice Wind Load (210)	DL					96	66		
36	Ice Wind Load (240)	DL					96	66		
37	Ice Wind Load (270)	DL					48	33		
38	Ice Wind Load (300)	DL					96	66		
39	Ice Wind Load (330)	DL					96	66		
40	Earthquake (x-direction)	DL	-.066				48			
41	Earthquake (y-direction)	DL		-.066			48			
42	Earthquake (z-direction)	DL			-.026		48			
43	BLC 3 Transient Area Loads	None						29		
44	BLC 27 Transient Area Loads	None						29		

Load Combinations

	Description	S...	P...	S...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...
1	1.4D	Yes	Y		3	1.4																				
2	1.2D + 1.0W(0)	Yes	Y		3	1.2	2	1																		
3	1.2D + 1.0Di + 1.0Wi(0)	Yes	Y		3	1.2	27	1	28	1																
4	1.2D + 1.5L + 1.0Wl(0)	Yes	Y		3	1.2	1	1.5	15	1																
5	1.2D + 1.0W(30)	Yes	Y		3	1.2	4	1																		
6	1.2D + 1.0Di + 1.0Wi(30)	Yes	Y		3	1.2	27	1	29	1																
7	1.2D + 1.5L + 1.0Wl(30)	Yes	Y		3	1.2	1	1.5	16	1																
8	1.2D + 1.0W(60)	Yes	Y		3	1.2	5	1																		
9	1.2D + 1.0Di + 1.0Wi(60)	Yes	Y		3	1.2	27	1	30	1																
10	1.2D + 1.5L + 1.0Wl(60)	Yes	Y		3	1.2	1	1.5	17	1																
11	1.2D + 1.0W(90)	Yes	Y		3	1.2	6	1																		
12	1.2D + 1.0Di + 1.0Wi(90)	Yes	Y		3	1.2	27	1	31	1																
13	1.2D + 1.5L + 1.0Wl(90)	Yes	Y		3	1.2	1	1.5	18	1																

Load Combinations (Continued)

	Description	S...	P...	S...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...
14	1.2D + 1.0W(120)	Yes	Y		3	1.2	7	1																		
15	1.2D + 1.0Di + 1.0Wi(120)	Yes	Y		3	1.2	27	1	32	1																
16	1.2D + 1.5L + 1.0Wl(120)	Yes	Y		3	1.2	1	1.5	19	1																
17	1.2D + 1.0W(150)	Yes	Y		3	1.2	8	1																		
18	1.2D + 1.0Di + 1.0Wi(150)	Yes	Y		3	1.2	27	1	33	1																
19	1.2D + 1.5L + 1.0Wl(150)	Yes	Y		3	1.2	1	1.5	20	1																
20	1.2D + 1.0W(180)	Yes	Y		3	1.2	9	1																		
21	1.2D + 1.0Di + 1.0Wi(180)	Yes	Y		3	1.2	27	1	34	1																
22	1.2D + 1.5L + 1.0Wl(180)	Yes	Y		3	1.2	1	1.5	21	1																
23	1.2D + 1.0W(210)	Yes	Y		3	1.2	10	1																		
24	1.2D + 1.0Di + 1.0Wi(210)	Yes	Y		3	1.2	27	1	35	1																
25	1.2D + 1.5L + 1.0Wl(210)	Yes	Y		3	1.2	1	1.5	22	1																
26	1.2D + 1.0W(240)	Yes	Y		3	1.2	11	1																		
27	1.2D + 1.0Di + 1.0Wi(240)	Yes	Y		3	1.2	27	1	36	1																
28	1.2D + 1.5L + 1.0Wl(240)	Yes	Y		3	1.2	1	1.5	23	1																
29	1.2D + 1.0W(270)	Yes	Y		3	1.2	12	1																		
30	1.2D + 1.0Di + 1.0Wi(270)	Yes	Y		3	1.2	27	1	37	1																
31	1.2D + 1.5L + 1.0Wl(270)	Yes	Y		3	1.2	1	1.5	24	1																
32	1.2D + 1.0W(300)	Yes	Y		3	1.2	13	1																		
33	1.2D + 1.0Di + 1.0Wi(300)	Yes	Y		3	1.2	27	1	38	1																
34	1.2D + 1.5L + 1.0Wl(300)	Yes	Y		3	1.2	1	1.5	25	1																
35	1.2D + 1.0W(330)	Yes	Y		3	1.2	14	1																		
36	1.2D + 1.0Di + 1.0Wi(330)	Yes	Y		3	1.2	27	1	39	1																
37	1.2D + 1.5L + 1.0Wl(330)	Yes	Y		3	1.2	1	1.5	26	1																
38	1.2D + 1.0E(x) + 1.0E(z) + L	Yes	Y		3	1.2	40	1	42	1	1	1														
39	1.2D + 1.0E(y) + 1.0E(z) + L	Yes	Y		3	1.2	41	1	42	1	1	1														
40	1.2D - 1.0E(x) + 1.0E(z) + L	Yes	Y		3	1.2	40	-1	42	1	1	1														
41	1.2D - 1.0E(y) + 1.0E(z) + L	Yes	Y		3	1.2	41	-1	42	1	1	1														

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

	Member	Shape	Code ...	Lo...	LC	Shear C...	Lo...	...	...	phi*P...	phi*P...	phi*M...	phi*M...	...	Eqn
1	FACE3	L3X3X4	.892	7	26	.196	14	z	26	3.945	46.656	1.688	2.699	...	H2-1
2	FACE1	L3X3X4	.810	7	2	.227	14	z	2	3.945	46.656	1.688	2.729	...	H2-1
3	FACE2	L3X3X4	.778	7	14	.201	14	z	14	3.945	46.656	1.688	2.714	...	H2-1
4	MP GAMMA3	PIPE_2.0	.508	2.75	2	.185	2.75		29	14.916	32.13	1.872	1.872	...	H1-1b
5	MP ALPHA3	PIPE_2.0	.505	2.75	29	.189	2.75		5	14.916	32.13	1.872	1.872	...	H1-1b
6	MP ALPHA2	PIPE_2.0	.496	2.75	29	.185	2.75		35	14.916	32.13	1.872	1.872	...	H1-1b
7	MP GAMMA2	PIPE_2.0	.492	2.75	17	.207	6.5		26	14.916	32.13	1.872	1.872	...	H1-1b
8	MP BETA3	PIPE_2.0	.483	2.75	5	.173	2.75		17	14.916	32.13	1.872	1.872	...	H1-1b
9	MP BETA2	PIPE_2.0	.470	2.75	5	.184	2.75		11	14.916	32.13	1.872	1.872	...	H1-1b
10	MP GAMMA4	PIPE_2.0	.443	2.75	32	.140	6.5		26	14.916	32.13	1.872	1.872	...	H1-1b
11	RAIL3	PIPE_2.0	.438	9.9...	26	.276	12....		8	5.397	32.13	1.872	1.872	...	H3-6
12	MP ALPHA4	PIPE_2.0	.430	2.75	8	.131	2.75		17	14.916	32.13	1.872	1.872	...	H1-1b
13	MP GAMMA1	PIPE_2.0	.388	2.75	20	.131	6.5		8	14.916	32.13	1.872	1.872	...	H1-1b
14	MP BETA4	PIPE_2.0	.383	2.75	20	.126	2.75		29	14.916	32.13	1.872	1.872	...	H1-1b
15	MP BETA1	PIPE_2.0	.372	2.75	8	.127	2.75		35	14.916	32.13	1.872	1.872	...	H1-1b
16	ANGLE2	L3X3X3	.370	0	26	.068	0	y	11	27.971	35.316	1.32	2.833	...	H2-1
17	Corner3	LL3x3x4x0	.369	0	6	.100	.903	y	3	76.35	93.312	6.48	4.36	...	H1-1b
18	ANGLE3	L3X3X3	.366	0	26	.073	0	y	23	27.971	35.316	1.32	2.833	...	H2-1
19	MP ALPHA1	PIPE_2.0	.362	2.75	32	.130	2.75		23	14.916	32.13	1.872	1.872	...	H1-1b
20	Corner2	LL3x3x4x0	.361	0	18	.099	.903	y	3	76.35	93.312	6.48	4.36	...	H1-1b
21	Corner1	LL3x3x4x0	.353	0	30	.095	.903	y	27	76.35	93.312	6.48	4.36	...	H1-1b
22	RAIL1	PIPE_2.0	.350	5.0...	2	.205	12....		20	5.397	32.13	1.872	1.872	...	H1-1b
23	RAIL2	PIPE_2.0	.337	5.0...	14	.204	12....		14	5.397	32.13	1.872	1.872	...	H1-1b
24	ANGLE1	L3X3X3	.332	0	14	.062	0	z	35	27.971	35.316	1.32	2.833	...	H2-1

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

	Member	Shape	Code ...	Lo...	LC	Shear C...	Lo...	...	...	phi*P...	phi*P...	phi*M...	phi*M...	...	Eqn
25	INNERFACE3	L3X3X4	.166	3.5...	2	.023	3.5...	y	3	35.06	46.656	1.688	3.756	...	H2-1
26	INNERFACE1	L3X3X4	.160	3.5...	26	.023	3.5...	y	15	35.06	46.656	1.688	3.756	...	H2-1
27	INNERFACE2	L3X3X4	.160	3.5...	6	.022	3.5...	y	27	35.06	46.656	1.688	3.756	...	H2-1
28	KICKER2	LL2.5x2.5x3x6	.160	0	9	.006	0	y	9	25.564	58.32	4.643	2.107	...	H1-1...
29	KICKER3	LL2.5x2.5x3x6	.158	0	33	.006	0	y	33	25.564	58.32	4.643	2.107	...	H1-1...
30	KICKER1	LL2.5x2.5x3x6	.152	0	21	.006	0	y	21	25.561	58.32	4.643	2.107	1	H1-1...

Envelope AISI S100-16: LRFD Cold Formed Steel Code Checks

	Member	Shape	Code C...	Loc[ft]	LC	Shea...	Loc[ft]	Dir	LC	phi*Pn...	phi*Tn...	phi*M...	phi*M...	phi*...	phi*...	Cb	Eqn
1	SO3A	CU4.5x3.5x.39	.907	2.72	36	.331	2.72	y	35	96.676	112.296	5.09	12.276	12.6...	30.9...	3.464	H1.1-2
2	SO2A	CU4.5x3.5x.39	.837	2.72	9	.311	2.72	y	5	96.676	112.296	5.09	12.276	12.6...	30.9...	3.614	H1.1-2
3	SO1A	CU4.5x3.5x.39	.926	2.72	9	.324	2.72	y	11	96.676	112.296	5.09	12.276	12.6...	30.9...	3.276	H1.1-2

APPENDIX D

Additional Calculations

POD
POWER OF DESIGN

POD Job #	**20-66002**
Site Number	**842875**
Site Name	**Windsorday Hill**

Connection Type	Single Shear	
RISA 3D Forces		
Axial (Bolts)	0.099	kips
Shear (Bolts)	4.092	kips
Axial Force (Member)	4.092	kips
Bolt/Member Information		
Member Label	KICKER2	
# of Bolts	1	
Diameter	0.625	inches
Bolt Grade	A325	
Member Grade	A36	
Threads Included?	Yes	
L_b	0	inches
L_c	1	inches
t	0.1875	inches

Shear Capacity	**29.6%**
Axial Capacity	**0.5%**
Bearing Capacity	**33.9%**
Combined Capacity	**8.8%**

Ver 1.0 - 2/28/2020

POD
POWER OF DESIGN

POD Job #	**20-66002**
Site Number	**842875**
Site Name	**Windsorday Hill**

Reactions from tnxTower

Moment	0.647	ft-kip
Axial	1.972	kips
Shear	8.143	kips

Ratings

Flange Bolts	*7.6%*
Flange Plate	*4.4%*

Flange Bolt Information

Number of Bolts	6	
Diameter	0.75	in
Grade	A325	
Bolt Circle	19	in
Threads Included	Yes	

Upper Flange Plate

Location =	External	
Plate Strength (Fy) =	36	ksi
Plate Tensile (Fu) =	58	ksi
Plate Thickness =	0.75	in
Outer Diameter =	24	in

Lower Flange Plate

Location =	External	
Plate Strength (Fy) =	36	ksi
Plate Tensile (Fu) =	58	ksi
Plate Thickness =	0.75	in
Outer Diameter =	24	in

Pole Information

Shaft Diam. (Upper) =	12	in
Thickness (Upper)=	0.188	in
# of Sides (Upper) =	8	
Fy (Upper) =	60	ksi
Shaft Diam. (Lower) =	14	in
Thickness (Lower)=	0.188	in
# of Sides (Lower) =	8	
Fy (Lower) =	60	ksi

Upper Stiffeners

Configuration =	None

Lower Stiffeners

Configuration =	None

APPENDIX E

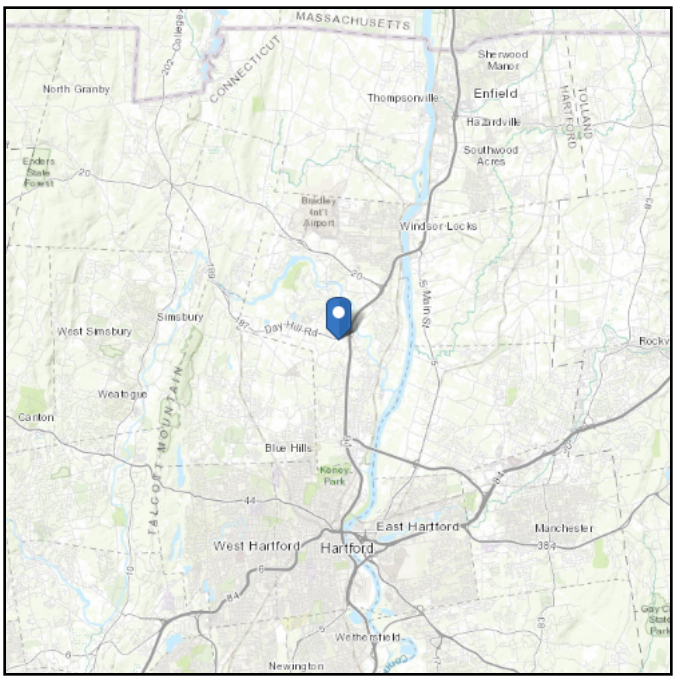
Wind Speed Documentation

ASCE 7 Hazards Report

Address:
No Address at This Location

Standard: ASCE/SEI 7-16
Risk Category: II
Soil Class: D - Default (see Section 11.4.3)

Elevation: 166.35 ft (NAVD 88)
Latitude: 41.871139
Longitude: -72.671111



Wind

Results:

Wind Speed:	116 Vmph
10-year MRI	75 Vmph
25-year MRI	83 Vmph
50-year MRI	90 Vmph
100-year MRI	97 Vmph
Data Source:	ASCE/SEI 7-16, Fig. 26.5-1B and Figs. CC.2-1–CC.2-4
Date Accessed:	Tue Nov 03 2020

Value provided is 3-second gust wind speeds at 33 ft above ground for Exposure C Category, based on linear interpolation between contours. Wind speeds are interpolated in accordance with the 7-16 Standard. Wind speeds correspond to approximately a 7% probability of exceedance in 50 years (annual exceedance probability = 0.00143, MRI = 700 years).

Site is in a hurricane-prone region as defined in ASCE/SEI 7-16 Section 26.2. Glazed openings need not be protected against wind-borne debris.

Mountainous terrain, gorges, ocean promontories, and special wind regions should be examined for unusual wind conditions.

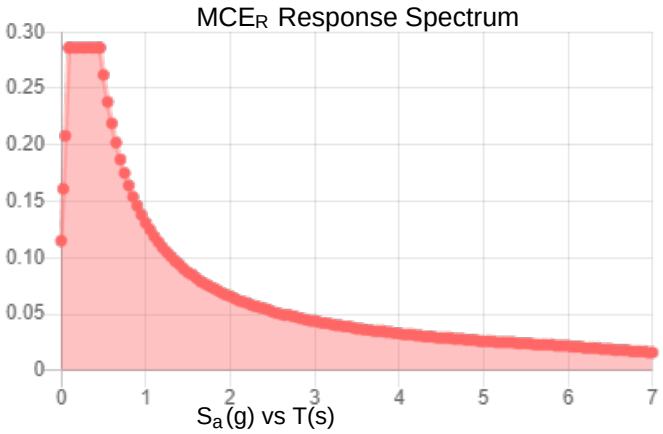
Seismic

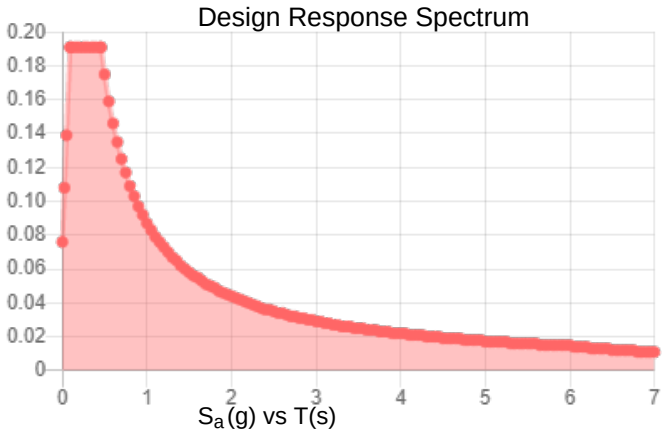
Site Soil Class: D - Default (see Section 11.4.3)

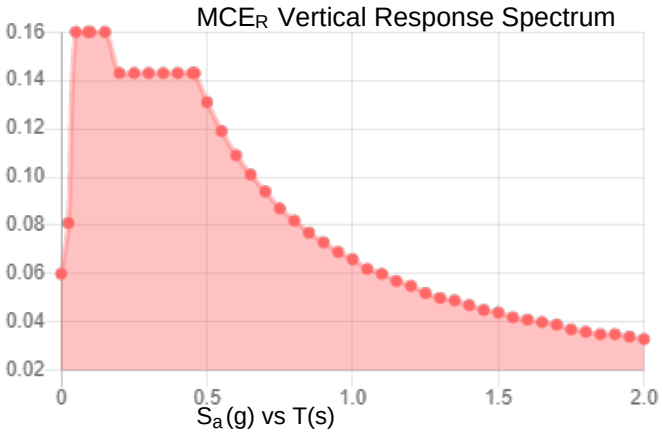
Results:

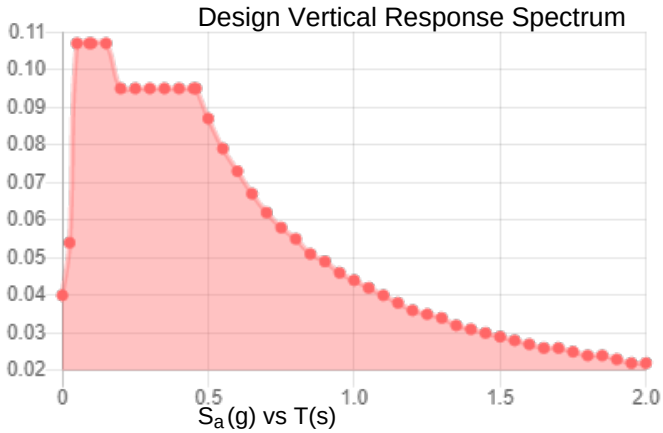
S_S :	0.179	S_{D1} :	0.087
S_1 :	0.055	T_L :	6
F_a :	1.6	PGA :	0.095
F_v :	2.4	PGA_M :	0.152
S_{MS} :	0.286	F_{PGA} :	1.6
S_{M1} :	0.131	I_e :	1
S_{DS} :	0.191	C_v :	0.7

Seismic Design Category B









Data Accessed: Tue Nov 03 2020

Date Source: USGS Seismic Design Maps based on ASCE/SEI 7-16 and ASCE/SEI 7-16 Table 1.5-2. Additional data for site-specific ground motion procedures in accordance with ASCE/SEI 7-16 Ch. 21 are available from USGS.

Ice

Results:

Ice Thickness:	1.50 in.
Concurrent Temperature:	5 F
Gust Speed:	50 mph
Data Source:	Standard ASCE/SEI 7-16, Figs. 10-2 through 10-8
Date Accessed:	Tue Nov 03 2020

Ice thicknesses on structures in exposed locations at elevations higher than the surrounding terrain and in valleys and gorges may exceed the mapped values.

Values provided are equivalent radial ice thicknesses due to freezing rain with concurrent 3-second gust speeds, for a 500-year mean recurrence interval, and temperatures concurrent with ice thicknesses due to freezing rain. Thicknesses for ice accretions caused by other sources shall be obtained from local meteorological studies. Ice thicknesses in exposed locations at elevations higher than the surrounding terrain and in valleys and gorges may exceed the mapped values.

APPENDIX F

Mount Modification Design Drawings (MDD)

SITE:

842875 WINDSORDAY HILL (10071331)

MODIFICATION DRAWING FOR AN EXISTING 14' PLATFORM W/ SUPPORT RAILS AT 168' ON A 168' MONOPOLE TOWER

SHEET INDEX	
T-01	TITLE SHEET
N-01	NOTES
S-01	PLAN VIEW
S-02	ELEVATION & SECTION VIEWS
MI-01	MODIFICATION CHECKLIST

PROJECT INFORMATION	
COUNTY:	HARTFORD
SITE ADDRESS:	99 DAY HILL ROAD WINDSOR, CT 06095
LATITUDE:	41° 52' 16.10"
LONGITUDE:	-72° 40' 16.00"

SCOPE OF WORK:

MOUNT MODIFICATION DRAWINGS INCLUDES:
REPLACE EXISTING KICKER KIT ARMS. RELOCATE EXISTING MOUNT PIPES TO ALLOW REQUIRED ANTENNA SEPARATION.

PLANS PREPARED FOR:

CROWN CASTLE

PLANS PREPARED BY:

POD
POWER OF DESIGN
1033 E. TURKEYFOOT LAKE RD.
SUITE 206 AKRON, OHIO 44312
330-961-7432

CARRIER:

AT&T

MODIFICATION DRAWING

REV.	DATE	DESCRIPTION

SITE INFORMATION:
WINDSORDAY HILL
(10071331)

99 DAY HILL ROAD
WINDSOR, CT 06095

SITE NUMBER:
842875

POD NUMBER: 20-66002

DRAWN BY: TAJ
CHECKED BY: JGC
DATE: 11/03/2020

SHEET TITLE:

TITLE SHEET

T-01

GENERAL NOTES

1. THE MODIFICATIONS REPRESENTED IN THESE DRAWINGS ARE BASED ON THE STRUCTURAL DOCUMENTS PROVIDED IN THE STRUCTURAL DOCUMENTS TABLE. THE CONTRACTOR SHALL OBTAIN AND BECOME FAMILIAR WITH ALL REFERENCED DOCUMENTS.

REFERENCE DOCUMENTS	
DOCUMENT TYPE	DESIGNATION
MOUNT ANALYSIS	POD PROJECT NUMBER: 20-65702 DATED: 06/22/2020

2. ALL MODIFICATIONS MUST BE INSTALLED TO BRING THE TOWER INTO CONFORMANCE WITH ALL APPLICABLE CODES.

GOVERNING CODES	TIA-222-H
ULTIMATE WIND SPEED	116 MPH 3 SECOND GUST
RADIAL ICE THICKNESS	1.5"
WIND SPEED W/ ICE	50 MPH 3 SECOND GUST
STRUCTURE CLASS	II
EXPOSURE CATEGORY	C
TOPOGRAPHIC CATEGORY	1
SPECTRAL RESPONSE ACCELERATIONS	SS= 0.179 & S1= 0.055

3. ALL WORK PRESENTED ON THESE DRAWINGS MUST BE COMPLETED BY THE CONTRACTOR UNLESS NOTED OTHERWISE OR APPROVED BY THE EOR. THE CONTRACTOR MUST HAVE CONSIDERABLE EXPERIENCE PERFORMING WORK SIMILAR TO THAT DESCRIBED WITHIN THESE DRAWINGS. BY ACCEPTANCE OF THIS PROJECT, THE CONTRACTOR IS ATTESTING THAT HE HAS SUFFICIENT EXPERIENCE AND ABILITY, THAT HE IS KNOWLEDGEABLE OF THE WORK TO BE PERFORMED AND THAT HE IS PROPERLY LICENSED AND REGISTERED TO PERFORM THE WORK IN THE PROJECT JURISDICTION.
4. WORK SHALL ONLY BE PERFORMED DURING CALM, DRY DAYS (WINDS LESS THAN 10XMPH). IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE INSTILLATION PROCEDURE AND SEQUENCE TO INSURE THE SAFETY OF THE STRUCTURE AND ITS COMPONENT PARTS DURING ERECTION AND/OR MODIFICATIONS. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF TEMPORARY BRACING, GUYS OR TIEXDOWNS THAT MAY BE NECESSARY. SUCH MATERIAL SHALL BE REMOVED AND SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AFTER THE COMPLETION OF THE PROJECT.
5. ALL DIMENSIONS, ELEVATIONS AND EXISTING CONDITIONS SHOWN ON THE DRAWINGS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING ANY MATERIALS ORDERING, FABRICATION OR CONSTRUCTION WORK ON THIS PROJECT. CONTRACTOR SHALL NOT SCALE CONTRACT DRAWINGS IN LIEU OF FIELD VERIFICATIONS. ANY DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER AND EOR. THE DISCREPANCIES MUST BE RESOLVED BEFORE THE CONTRACTOR IS TO PROCEED WITH THE WORK. THE CONTRACT DOCUMENTS DO NOT INDICATE THE METHODS OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND IS SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES. OBSERVATION VISITS TO THE SITE BY THE OWNER AND/OR THE EOR SHALL NOT INCLUDE INSPECTION OF THE PROTECTIVE MEASURES AND PROCEDURES.
6. THE DESIGN WITHIN THESE DRAWINGS ASSUMES THE TOWER AND ITS FOUNDATIONS HAVE BEEN WELL MAINTAINED, IN GOOD CONDITION AND ARE WITHOUT DEFECT. BENT MEMBERS, CORRODED MEMBER, LOOSE BOLTS, CRACKED WELDS, AND OTHER STRUCTURAL DEFECTS HAVE NOT BEEN CONSIDERED UNLESS SPECIFICALLY NOTED. THE TOWER IS ASSUMED TO BE PLUMB AND THE SITE IS ASSUMED LEVEL. THE OWNER AND/OR EOR SHALL BE NOTIFIED IMMEDIATELY IF ANY VARIANCES ARE FOUND.
7. THE CONTRACTOR SHALL ONLY WORK WITHIN THE LIMITS OF THE TOWER OWNER'S PROPERTY, LEASE AREA OR APPROVED EASEMENTS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY WORK IS PERFORMED WITHIN THESE BOUNDARIES. CONSTRUCTION STAKING AND BOUNDARY MARKING IS THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL EMPLOY A SURVEYOR AS REQUIRED. ANY WORK OUTSIDE THESE BOUNDARIES SHALL BE APPROVED IN WRITING BY THE OWNER.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INITIATING, MAINTAIN AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR INSURING THAT ALL WORK PERFORMED COMPLIES WITH ALL APPLICATION SAFETY CODES AND GOVERNING REGULATIONS.
9. ACCESS TO THE PROPOSED WORK SITE MAY BE RESTRICTED. THE CONTRACTOR SHALL COORDINATE INTENDED CONSTRUCTION ACTIVITY, INCLUDING WORK SCHEDULES AND MATERIAL DELIVERIES, WITH THE OWNER/RESIDENT LEASING AGENT FOR APPROVAL.
10. THE CONTRACTOR SHALL SECURE ALL NECESSARY PERMITS FOR THIS PROJECT FROM ALL APPLICABLE GOVERNING AGENCIES. THE CONTRACTOR WILL BE RESPONSIBLE FOR ABIDING BY ALL CONDITIONS AND REQUIREMENTS OF THE PERMITS.
11. ALL MATERIAL UTILIZED FOR THIS PROJECT MUST BE NEW AND FREE OF ANY DEFECTS. ANY MATERIAL SUBSTITUTIONS, INCLUDED BUT NOT LIMITED TO ALTERED SIZED AND/OR STRENGTHS, MUST BE APPROVED BY THE EOR.
12. UNLESS NOTED OTHERWISE, ALL NEW MEMBERS SHALL MAINTAIN THE EXISTING MEMBER WORKING LINES AND NOT INTRODUCE ECCENTRICITIES INTO THE STRUCTURE.
13. ALL DIMENSIONS AND QUANTITIES LISTED WITHIN THESE DRAWINGS ARE INTENDED TO AID THE CONTRACTOR. THE CONTRACTOR SHALL VERIFY ALL DIMENSION AND QUANTITIES PRIOR TO BIDDING AND/OR ORDERING MATERIALS.
14. ALL MANUFACTURERS' INSTRUCTIONS SHALL BE FOLLOWED EXACTLY. ANY DEVIATION REQUIRES WRITTEN APPROVAL FROM THE EOR.
15. THE CONTRACTOR IS RESPONSIBLE FOR TEMPORARILY REMOVING COAX, BRACKETS, ANTENNAS MOUNTS AND ANY OTHER TOWER APPURTENANCE THAT MAY INTERFERE WITH THE INSTILLATION OF THE TOWER MODIFICATIONS. ALL TOWER APPURTENANCES MUST BE REPLACE AND/OR RESTORED TO ITS ORIGINAL LOCATION. SOME MOUNTS OR ATTACHMENTS MAY REQUIRE CUSTOM MODIFICATION TO PROPERLY FIT THE MODIFIED REGION OF THE STRUCTURE. THESE CUSTOM MOUNTS OR ATTACHMENTS ARE DESIGNED BY OTHERS AND MUST BE APPROVED BY THE OWNER/EOR PRIOR TO REMOVAL. ANY CARRIER DOWNTIME MUST BE COORDINATED WITH THE OWNER IN WRITING.
16. DO NOT SCALE DRAWINGS.

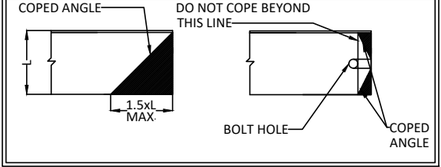
STRUCTURAL STEEL NOTES

1. ALL DETAILING, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE AISC SPECIFICATIONS, LATEST EDITION.
2. ALL STRUCTURAL STEEL ELEMENTS SHALL CONFORM TO THE FOLLOWING REQUIREMENTS.

MATERIAL SPECIFICATIONS	
ANGLES	ASTM A36 (36 KSI YIELD STRENGTH)
PIPES	ASTM A53 GR.B (35 KSI YIELD STRENGTH)
BOLTS	ASTM A325N
NUTS	ASTM A563
WASHER	ASTM F436
PLATE	ASTM A36 (36 KSI YIELD STRENGTH)
U-BOLTS	ASTM A307

3. ALL CONNECTIONS NOT FULLY DETAILED ON THESE PLANS SHALL BE DETAILED BY THE FABRICATOR IN ACCORDANCE WITH AISC SPECIFICATIONS, LATEST EDITION.
4. CAULKING SHALL BE PROVIDED AROUND PERIMETER OF ANY AND ALL MODIFICATION MEMBERS TO ENSURE COMPLETE SEAL BETWEEN EXISTING STRUCTURE AND REINFORCING MEMBERS IN FULL CONTACT WITH EXISTING STEEL. SEALANT IS TO BE EXTERIOR GRADE, PAINTABLE SILICONE CAULKING AS MANUFACTURED BY DOW AND ACCEPTABLE TO EOR.
5. HOLES SHALL NOT BE FLAME CUT THROUGH STEEL UNLESS APPROVED BY THE EOR.
6. ALL EXPOSED STEEL SHALL BE HOTXDIPPED GALVANIZED PER ASTM A123, ASTM A153/A153M, OR ASTM A653 G90, AS APPLICABLE FOR FULL WEATHER PROTECTION. FOR HIGH STRENGTH STEEL FASTENERS WHERE HOTXDIPPED GALVANIZING IS NOT PERMITTED DACROMET F1136 GRADE 3 COATING SHALL BE USED. IN ADDITION ALL NEW STEEL SHALL BE PAINTED TO MATCH EXISTING TOWER STEEL. CONTRACTOR SHALL OBTAIN EOR APPROVAL FOR STEEL PROTECTION BY ANY OTHER MEANS.
7. REPAIR DAMAGED PAINTED/GALVANIZED SURFACES WITH TWO COATS OF BRUSH OR ROLL ON ZRC COLD GALVANIZING COMPOUND OR EOR APPROVED COATING. SURFACES MUST BE WIRE BRUSHED AND SOLVENT CLEANED PRIOR TO APPLICATION OF GALVANIZING COMPOUND.
8. ALL BOLT ASSEMBLIES FOR STRUCTURAL MEMBERS REPRESENTED IN THIS DRAWING REQUIRE LOCKING DEVICES (LOCKING NUT/PAL NUT) TO BE INSTALLED IN ACCORDANCE WITH TIA/EIAX222 REQUIREMENTS.
9. ALL PROPOSED AND/OR REPLACED BOLTS SHALL BE OF SUFFICIENT LENGTH SUCH THAT THE END OF THE BOLT BE AT LEAST FLUSH WITH THE FACE OF THE NUT. IT IS NOT PERMITTED FOR THE BOLT END TO BE BELOW THE FACE OF THE NUT AFTER TIGHTENING IS COMPLETED.

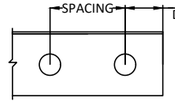
ALLOWABLE ANGLE COPE



1. ALL DIMENSIONS REPRESENTED IN THE ABOVE TABLES ARE AISC MINIMUM REQUIREMENTS. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN FIELD AND NOTIFY ENGINEER IF DISTANCES ARE LESS THAN THOSE PROVIDED.
2. THE DIMENSIONS PROVIDED ARE MINIMUM REQUIREMENTS. ACTUAL DIMENSIONS OF PROPOSED MEMBERS WITHIN THESE DRAWINGS MAY VARY FROM THE AISC MINIMUM REQUIREMENT.

BOLT SCHEDULE

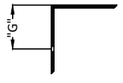
BOLT DIAMETER	STANDARD HOLE	SHORT SLOT	MIN. EDGE DISTANCE	SPACING
1/2	9/16	9/16x11/16	7/8	1-1/2
5/8	11/16	11/16x7/8	1-1/8	1-7/8
3/4	13/16	13/16x1	1-1/4	2-1/4
7/8	15/16	15/16x1-1/8	1-1/2	2-5/8
1	1-1/16	1-1/16x1-5/16	1-3/4	3



- DIMENSIONS GIVEN IN INCHES.
- SHORT SLOT HOLES SHALL ONLY BE USED WHEN DEPICTED ON THE PLANS.

WORKABLE GAGES

LEG	2-1/2	----	----
G	1-3/8	----	----



- DIMENSIONS GIVEN IN INCHES.
- MATCH EXISTING WHEN APPLICABLE.

PLANS PREPARED FOR:

CROWN CASTLE

PLANS PREPARED BY:

POD
POWER OF DESIGN
1033 E. TURKEYFOOT LAKE RD.
SUITE 206 AKRON, OHIO 44312
330-961-7432

CARRIER:

AT&T

DRAWING NOTICE:

MODIFICATION DRAWING

REV.	DATE	DESCRIPTION

SITE INFORMATION:

WINDSORDAY HILL
(10071331)

99 DAY HILL ROAD
WINDSOR, CT 06095

SITE NUMBER:

842875

POD NUMBER: 20-66002

DRAWN BY: TAJ
CHECKED BY: JGC
DATE: 11/03/2020

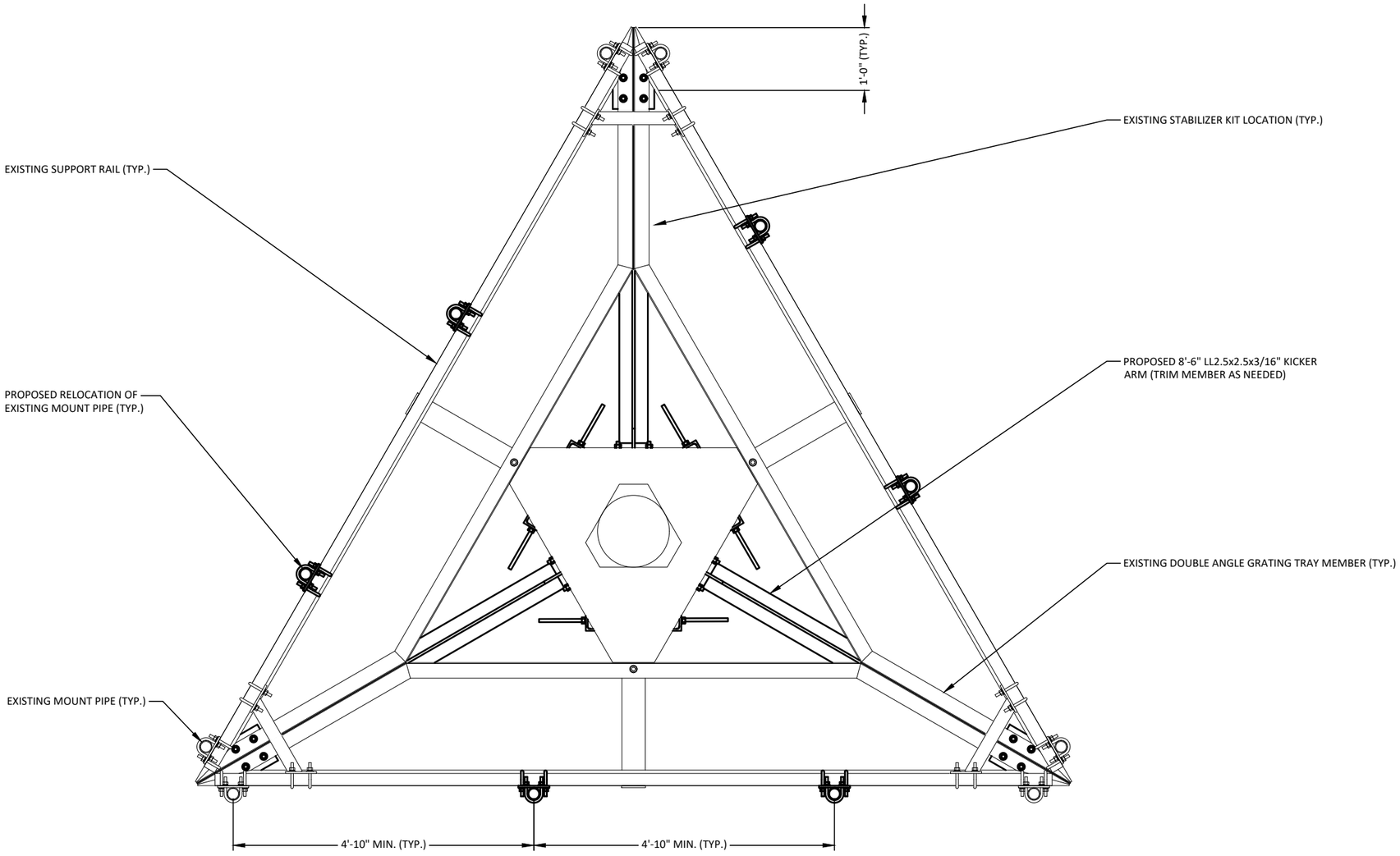
SHEET TITLE:

NOTES

N-01

NOTES:

- ANTENNAE & GRATING NOT SHOWN FOR CLARITY
- ALL FIELD DRILLED HOLES SHALL BE SOLVENT CLEANED AND TOUCHED UP WITH TWO COATS OF ZRC RICH PAINT
- EXCESS MATERIALS SHALL BE REMOVED AND DISPOSED OFF SITE BY THE CONTRACTOR



PLAN VIEW

1/2" = 1'-0"

PLANS PREPARED FOR:

CROWN CASTLE

PLANS PREPARED BY:

POD
POWER OF DESIGN
1033 E. TURKEYFOOT LAKE RD.
SUITE 206 AKRON, OHIO 44312
330-961-7432

CARRIER:

AT&T

MODIFICATION DRAWING

REV.	DATE	DESCRIPTION

SITE INFORMATION:

WINDSORDAY HILL
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99 DAY HILL ROAD
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SITE NUMBER:

842875

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DRAWN BY:	TAJ
CHECKED BY:	JGC
DATE:	11/03/2020

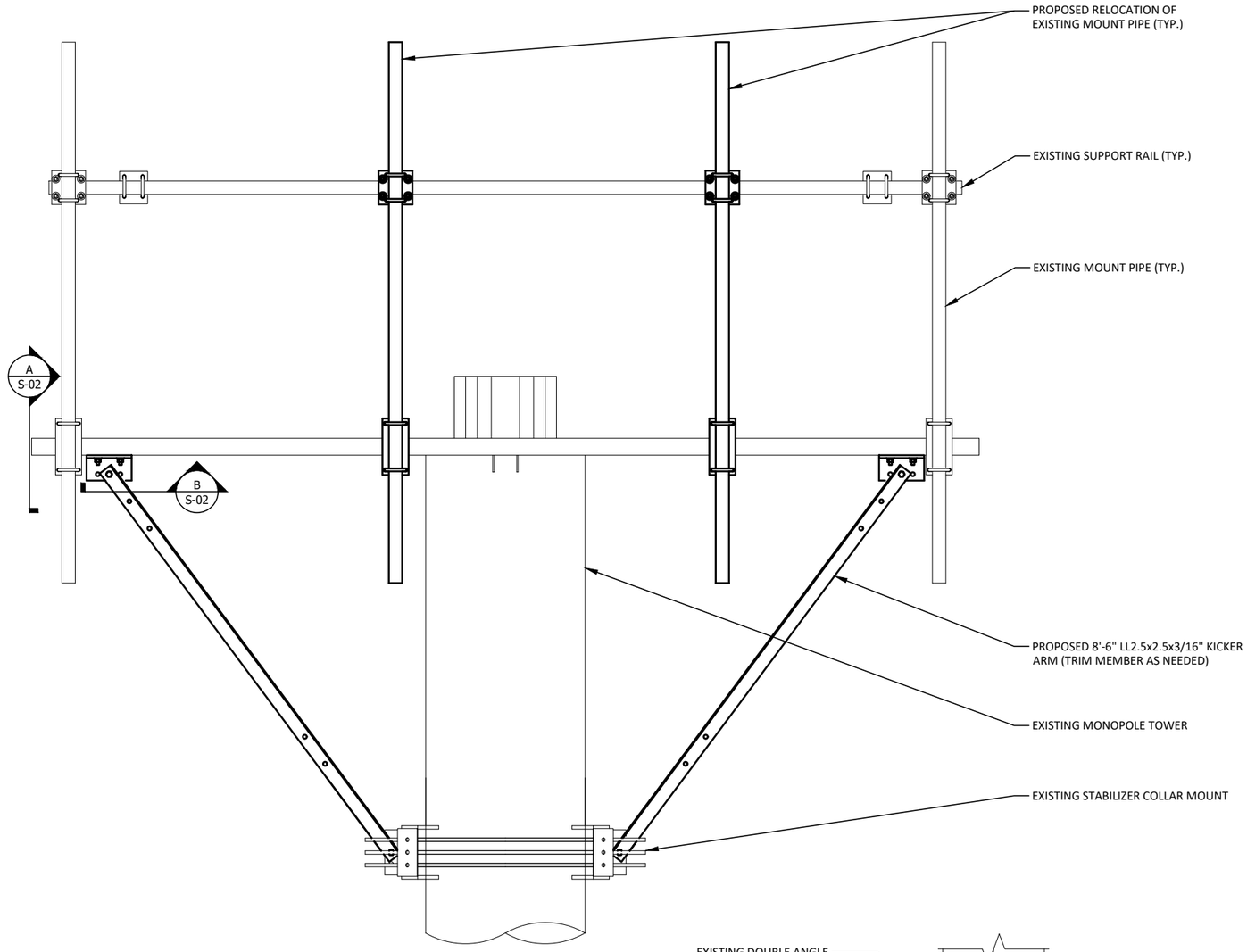
SHEET TITLE:

PLAN VIEW

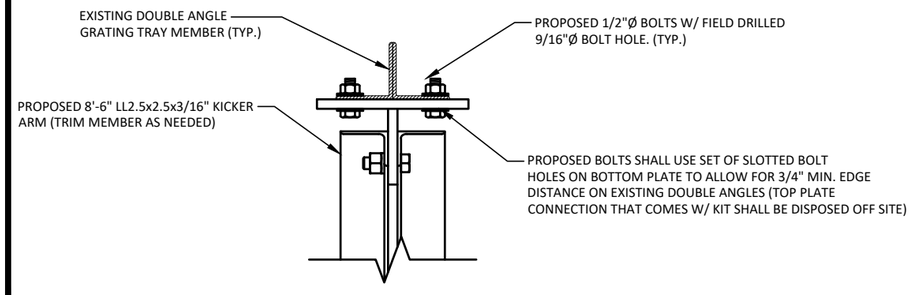
S-01

NOTES:

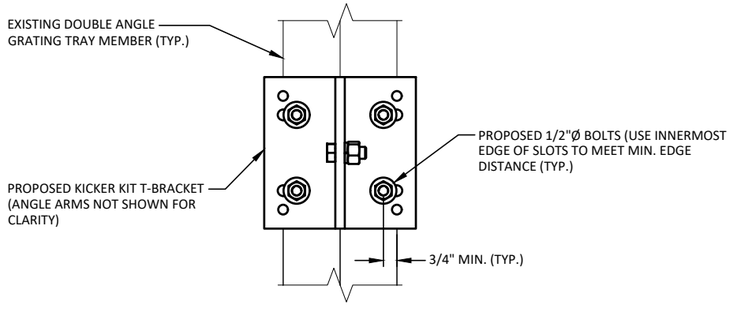
- ANTENNAE & GRATING NOT SHOWN FOR CLARITY
- ALL FIELD DRILLED HOLES SHALL BE SOLVENT CLEANED & TOUCHED UP WITH TWO COATS OF ZRC RICH PAINT
- EXCESS MATERIALS SHALL BE REMOVED AND DISPOSED OFF SITE BY THE CONTRACTOR



ELEVATION VIEW
1/2" = 1'-0"



SECTION A S-02
1-1/2" = 1'-0"



SECTION B S-02
1-1/2" = 1'-0"

PLANS PREPARED FOR:
CROWN CASTLE

PLANS PREPARED BY:
POD
POWER OF DESIGN
1033 E. TURKEYFOOT LAKE RD.
SUITE 206 AKRON, OHIO 44312
330-961-7432

CARRIER:
AT&T

DRAWING NOTICE:

MODIFICATION DRAWING

REV.	DATE	DESCRIPTION

SITE INFORMATION:
WINDSORDAY HILL
(10071331)

99 DAY HILL ROAD
WINDSOR, CT 06095

SITE NUMBER:
842875

POD NUMBER:	20-66002
DRAWN BY:	TAJ
CHECKED BY:	JGC
DATE:	11/03/2020

SHEET TITLE:
ELEVATION & SECTION VIEWS

S-02

MODIFICATION INSPECTION CHECKLIST

BEFORE CONSTRUCTION		DURING CONSTRUCTION		AFTER CONSTRUCTION	
CONSTRUCTION/INSTALLATION INSPECTION AND TESTING REQUIRED (COMPLETED BY ENGINEER OF RECORD)	REPORT ITEM	CONSTRUCTION/INSTALLATION INSPECTION AND TESTING REQUIRED (COMPLETED BY ENGINEER OF RECORD)	REPORT ITEM	CONSTRUCTION/INSTALLATION INSPECTION AND TESTING REQUIRED (COMPLETED BY ENGINEER OF RECORD)	REPORT ITEM
X	MODIFICATION INSPECTION CHECKLIST DWG	X	CONSTRUCTION INSPECTION	X	MODIFICATION INSPECTOR REDLINE OR RECORD DRAWING(S)
-	ENGINEER OF RECORD APPROVED SHOP DRAWINGS	-	FOUNDATION INSPECTION	-	POST INSTALLED ANCHOR ROD PULL-OUT TESTING
-	FABRICATION INSPECTION	-	CONCRETE COMP. STRENGTH AND SLUMP TEST	X	PHOTOGRAPHS
X	MATERIAL TEST REPORT	-	POST INSTALLED ANCHOR ROD VERIFICATION	ADDITIONAL TESTING AND INSPECTION	
-	FABRICATOR NDE INSPECTION	-	BASE PLATE GROUT VERIFICATION		
-	NDE REPORT OF MONOPOLE BASEPLATE (AS REQUIRED)	-	THIRD PARTY CERTIFIED WELD INSPECTION		
X	PACKING SLIP	-	EARTHWORK LIFT AND DENSITY (REPORT REQUIRED)		
ADDITIONAL TESTING AND INSPECTION		X	ON SITE COLD GALVANIZING VERIFICATION		
		-	GUY WIRE TENSION REPORT		
		X	GC AS-BUILT DOCUMENTS		
		ADDITIONAL TESTING AND INSPECTION			

MODIFICATION INSPECTION NOTES:

GENERAL:

1. THE MODIFICATION INSPECTION IS A VISUAL INSPECTION OF TOWER MODIFICATION AND A REVIEW OF CONSTRUCTION INSPECTION AND OTHER REPORTS TO ENSURE THE INSTALLATION WAS CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. NAMELY THE MODIFICATION DRAWINGS., AS DESIGNED BY THE ENGINEER OF RECORD.

2. THE MODIFICATION INSPECTION IS TO CONFIRM INSTALLATION CONFIGURATION AND WORKMANSHIP ONLY AN IS NOT A REVIEW OF THE MODIFICATION DESIGN ITSELF. NOR DOES THE MODIFICATION INSPECTOR TAKE OWNERSHIP OF THE MODIFICATION DESIGN. OWNERSHIP OF THE STRUCTURAL MODIFICATION DESIGN EFFECTIVENESS AND INTENT RESIDES WITH THE ENGINEER OF RECORD AT ALL TIMES.

3. TO ENSURE THAT THE REQUIREMENT OF THE MODIFICATION INSPECTION ARE MET, IT IS VITAL THAT THE GENERAL CONTRACTOR (GC) AND THE MODIFICATION INSPECTOR BEGIN COMMUNICATION AND COORDINATING AS SOON AS A PO OR PAYMENT IS RECEIVED. IT IS EXPECTED THAT EACH PARTY WILL BE PROACTIVE IN REACHING OUT TO THE OTHER PARTY.

MODIFICATION INSPECTOR:

1. THE MODIFICATION INSPECTOR IS REQUIRED TO CONTACT THE GC AS SOON AS RECEIVING A PO OR PAYMENT FOR THE MODIFICATION INSPECTION TO:

- REVIEW THE REQUIREMENT OF THE MODIFICATION INSPECTION CHECKLIST
- WORK WITH THE GC TO DEVELOP A SCHEDULE TO CONDUCT ON-SITE
- INSPECTIONS
- DISCUSS ANY SITE SPECIFIC INSPECTIONS OR CONCERNS

2. THE MODIFICATION INSPECTOR IS RESPONSIBLE FOR COLLECTING ALL GENERAL CONTRACTOR (GC) INSPECTION AND TEST REPORTS. REVIEWING THE DOCUMENTS FOR ADHERENCE TO THE CONTRACT DOCUMENTS, CONDUCTING THE INXFEILD INSPECTIONS, AND SUBMITTING THE MODIFICATION INSPECTION REPORT.

GENERAL CONTRACTOR:

1. THE GC IS REQUIRED TO CONTACT THE MODIFICATION INSPECTOR AS SOON AS RECEIVING A PO OR PAYMENT FOR THE MODIFICATION INSTALLATION OR TURNKEY PROJECT TO:

- REVIEW THE REQUIREMENT OF THE MODIFICATION INSPECTION CHECKLIST
- WORK WITH THE MI INSPECTOR TO DEVELOP A SCHEDULE TO CONDUCT ON-SITE MODIFICATION INSPECTIONS, INCLUDING FOUNDATION INSPECTIONS
- BETTER UNDERSTAND ALL INSPECTION AND TESTING REQUIREMENTS

2. THE GC SHALL PERFORM AND RECORD THE TEST AND INSPECTION RESULTS IN ACCORDANCE WITH THE REQUIREMENTS OF THE MODIFICATION INSPECTION CHECKLIST.

RECOMMENDATIONS:

1. IT IS SUGGESTED THAT THE GC PROVIDE A MINIMUM OF 5 BUSINESS DAYS NOTICE, TO THE MODIFICATION INSPECTOR AS TO WHEN THE SITE WILL BE READY FOR HE MODIFICATION INSPECTION TO BE CONDUCTED.

- THE GC AND MODIFICATION INSPECTION COORDINATE CLOSELY THROUGHOUT THE ENTIRE PROJECT.
- WHEN POSSIBLE IT IS PREFERRED TO HAVE THE MODIFICATION INSPECTOR AND GC ON-SITE SIMULTANEOUSLY FOR ANY GUY WIRE TENSIONING OR REXTENSIONING OPERATIONS.
- IT MAY BE BENEFICIAL TO INSTALL ALL TOWER MODIFICATIONS PRIOR TO CONDUCTING THE FOUNDATION INSPECTION TO ALLOW FOUNDATION AND MODIFICATION INSPECTION(S) DONE IN ONE SITE VISIT.
- WHEN POSSIBLE, IT IS PREFERRED TO HAVE THE GC AND MODIFICATION INSPECTOR ON-SITE DURING THE MODIFICATION INSPECTION. THEREFORE, THE GC MAY CHOOSE TO COORDINATE THE MODIFICATION INSPECTION CAREFULLY TO ENSURE ALL CONSTRUCTION FACILITIES AT THEIR DISPOSAL WHEN THE MI INSPECTOR IS ON SITE.

CANCELLATION OR DELAYS IN SCHEDULED MODIFICATION INSPECTION:

1. IF THE GC AND MODIFICATION INSPECTOR AGREE TO A DATE ON WHICH THE MODIFICATION INSPECTION WILL BE CONDUCTED, AND EITHER ARTY CANCELS OR DELAYS, THE TOWER OWNER SHALL NOT BE RESPONSIBLE FOR ANY COSTS, FEES, LOSS OR DEPOSITS AND/OR OTHER PENALTIES RELATE TO THE CANCELLATION OR DELAY INCURRED BY EITHER PARTY FOR ANY TIME. EXCEPTIONS MAY BE MADE IN THE DELAY/ CANCELLATION IS CAUSED BY WEATHER OR OTHER CONDITIONS THAT MAY COMPROMISE THE SAFETY OF THE PARTIES INVOLVED.

CORRECTION OF FAILING MODIFICATION INSPECTION:

1. IF THE MODIFICATION INSTALLATION WOULD FAIL THE MODIFICATION INSPECTION ("FAILED MODIFICATION INSPECTION"), THE GC SHALL WORK WITH MODIFICATION INSPECTOR TO COORDINATE A REMEDIATION PLAN IN ONE OF TWO WAYS:

- CORRECT FAILING ISSUES TO COMPLY WITH THE SPECIFICATIONS CONTAINED IN THE ORIGINAL CONTRACT DOCUMENTS AND COORDINATE A SUPPLEMENT MODIFICATION INSPECTION. OR, WITH TOWER OWNER'S APPROVAL, THE GC MAY WORK WITH THE ENGINEER OF RECORD TO REXANALYZE THE MODIFCATION/REINFORCEMENT USING AS-BUILT CONDITION.

VERIFICATION INSPECTIONS:

1. TOWER OWNER RESERVES THE RIGHT TO CONDUCT A VERIFICATION INSPECTION TO VERIFY THE ACCURACY AND COMPLETENESS OF PREVIOUSLY COMPLETED MODIFICATION AND INSPECTION(S) ON TOWER MODIFICATION PRODUCTS.

2. VERIFICATION INSPECTION MAY BE CONDUCTED BY AN INDEPENDENT FIRM AFTER A MODIFICATION PROJECT IS COMPLETED, AS MARKED BY THE DATE OF AN ACCEPTED "PASSING MODIFICATION INSPECTION MODIFICATION INSPECTION" REPORT FOR THE ORIGINAL PROJECT.

REQUIRED PHOTOS:

1. BETWEEN THE GC AND THE MI INSPECTOR THE FOLLOWING PHOTOGRAPHS ARE TO BE TAKEN AND INCLUDED IN THE MODIFICATION INSPECTION REPORT:

- PREXCONSTRUCTION GENERAL SITE CONDITION
- PHOTOGRAPHS DURING THE REINFORCEMENT MODIFICATION CONSTRUCTION/ERECTION AND INSPECTION

  - RAW MATERIALS
  - PHOTOS OF ALL CRITICAL DETAILS
  - WELD PREPARATION
  - FOUNDATION MODIFICATION
  - BOLT INSTALLATION AND TORQUE
  - FINAL INSTALLED CONDITION
  - SURFACE COATING REPAIR

- POST CONDITION PHOTOGRAPHS
- FINAL INFIELD CONDITION ANY OTHER PHOTOS DEEMED RELEVANT TO SHOW COMPLETE DENTALS OF MODIFICATIONS

2. PHOTOS OF ELEVATED MODIFICATIONS TAKEN FROM THE GROUND SHALL BE CONSIDERED INADEQUATE.

PLANS PREPARED FOR:

CROWN CASTLE

PLANS PREPARED BY:

POD
POWER OF DESIGN
1033 E. TURKEYFOOT LAKE RD.
SUITE 206 AKRON, OHIO 44312
330-961-7432

CARRIER:

AT&T

DRAWING NOTICE:

MODIFICATION DRAWING

REV.	DATE	DESCRIPTION

SITE INFORMATION:

WINDSORDAY HILL
(10071331)

99 DAY HILL ROAD
WINDSOR, CT 06095

SITE NUMBER:

842875

POD NUMBER: 20-66002

DRAWN BY: TAJ
CHECKED BY: JGC
DATE: 11/03/2020

SHEET TITLE:

MODIFICATION CHECKLIST

MI-01

Exhibit F

Power Density/RF Emissions Report

Radio Frequency Emissions Analysis Report

AT&T Existing Facility

Site ID: CTL05139

Project Type: AT&T LTE 5C

Windsor Day Hill
99 Day Hill Road
Windsor, CT 06095

July 9, 2020

Fullerton Project Number: 2020.0182.0006

Site Compliance Summary	
Compliance Status:	**COMPLIANT**
Site total MPE% of FCC general population allowable limit:	**10.18 %**

July 9, 2020

Crown Castle on Behalf of AT&T
Attn: Anne Marie Zsamba, Site Acquisition Specialist
3 Corporate Park Drive, Suite 101
Clifton Park, NY 12065

Emissions Analysis for Site: **CTL05139 – Windsor Day Hill**

Fullerton Engineering Consultants, LLC ("Fullerton") was directed to analyze the proposed upgrades to the AT&T facility located at **99 Day Hill Road, Windsor, CT**, for the purpose of determining whether the emissions from the proposed AT&T 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 97-01and ANSI/IEEE Std C95.1. The FCC regulates Maximum Permissible Exposure in units of microwatts per square centimeter (μW/cm2). The number of $\mu W/cm^2$ 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.

Population exposure to radio frequencies is regulated and enforced in units of microwatts per square centimeter ($\mu W/cm^2$). The general population exposure limits for the 700 MHz & 850 MHz bands are approximately 467 $\mu W/cm^2$ and 567 $\mu W/cm^2$ respectively. The general population exposure limit for the 1900 MHz (PCS), 2100 MHz (AWS) and 2300 MHz (WCS) bands is 1000 $\mu W/cm^2$. 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 performed for the proposed upgrades to the AT&T antenna facility located at **99 Day Hill Road, Windsor, CT**, using the equipment information listed below. All calculations were performed per the specifications under FCC OET 65. Since AT&T 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 manufactures supplied specifications, minus 10 dB for directional panel antennas, 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.

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. All power values expressed and analyzed are maximum power levels expected to be used on all radios.

All emissions values for additional carriers were taken from the Connecticut Siting Council (CSC) active MPE database. Values in this database are provided by the individual carriers themselves.

For each sector the following channel counts, frequency bands and power levels were utilized as shown in *Table 1*:

Technology	Frequency Band	Channel Count	Transmit Power per Channel (W)
UMTS	850 MHz	1	20
LTE	700 MHz	4	40
LTE / 5G NR	850 MHz	4	40
LTE	2300 MHz (WCS)	4	25
LTE	700 MHz (Band 14)	4	40
LTE	2100 MHz (AWS)	4	40
LTE	700 MHz (Band 29)	2	40
LTE	1900 MHz (PCS)	4	40

Table 1: Channel Data Table

The following antennas listed in *Table 2* were used in the modeling for transmission in the 700 MHz, 850 MHz, 1900 MHz (PCS), 2100 MHz (AWS) and 2300 MHz (WCS) frequency bands. This is based on feedback from the carrier with regards to anticipated antenna selection. Maximum gain values for all antennas are listed in the Inventory and Power Data table below. The maximum gain of the antenna per the antenna manufactures supplied specifications, minus 10 dB for directional panel antennas, 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.

Sector	Antenna Number	Antenna Make / Model	Antenna Centerline (ft)
A	1	Kathrein 800-10121	168
A	2	CCI DMP65R-BU6D	168
A	3	Kathrein 800-10965	168
A	4	Quintel QS66512-2	168
B	1	Kathrein 800-10121	168
B	2	CCI DMP65R-BU6D	168
B	3	Kathrein 800-10965	168
B	4	Quintel QS66512-2	168
C	1	Kathrein 800-10121	168
C	2	CCI DMP65R-BU8D	168
C	3	Kathrein 800-10966	168
C	4	CCI TPA-65R-LCUUUU-H8	168

Table 2: Antenna Data

All calculations were done with respect to uncontrolled / general population threshold limits.

Cable losses were factored in the calculations for this site. For each **700 MHz** Remote Radio Unit (RRU) there was **0.18 dB** of cable loss calculated into the system gains / losses for this site. For each **850 MHz** Remote Radio Unit (RRU) there was **0.20 dB** of cable loss calculated into the system gains / losses for this site. For each **850 MHz** ground mounted radio path there was **1.17 dB** of cable loss calculated into the system gains / losses for this site. For each **1900 MHz (PCS)** Remote Radio Unit (RRU) there was **0.32 dB** of cable loss calculated into the system gains / losses for this site. For each **2100 MHz (AWS)** Remote Radio Unit (RRU) there was **0.34 dB** of cable loss calculated into the system gains / losses for this site. For each **2300 MHz (WCS)** Remote Radio Unit (RRU) there was **0.35 dB** of cable loss calculated into the system gains / losses for this site These values were calculated based upon the manufacturers specifications for **10 feet** of **1/2"** coax for all Remote Radio Units (RRU) and **190 feet** of **1-5/8"** coax for ground mounted radios.

RESULTS

Per the calculations completed for the proposed AT&T configurations *Table 3* shows resulting emissions power levels and percentages of the FCC's allowable general population limit.

Antenna ID	Antenna Make / Model	Frequency Bands	Antenna Gain (dBd)	Channel Count	Total TX Power (W)	ERP (W)	MPE %
Antenna A1	Kathrein 800-10121	850 MHz	11.45	1	20	213.32	0.05
Antenna A2	CCI DMP65R-BU6D	700 MHz (Band 12) / 850 MHz / 2300 MHz (WCS)	11.85 / 12.45 / 16.25	12	420	8,926.82	1.87
Antenna A3	Kathrein 800-10965	700 MHz (Band 14) / 2100 MHz (AWS)	12.65 / 15.95	8	320	8,648.30	1.63
Antenna A4	Quintel QS66512-2	700 MHz (Band 29) / 1900 MHz (PCS)	10.85 / 13.85	6	240	4,540.23	0.76
						Sector A Composite MPE%	**4.31**
Antenna B1	Kathrein 800-10121	850 MHz	11.45	1	20	213.32	0.05
Antenna B2	CCI DMP65R-BU6D	700 MHz (Band 12) / 850 MHz / 2300 MHz (WCS)	11.85 / 12.45 / 16.25	12	420	8,926.82	1.87
Antenna B3	Kathrein 800-10965	700 MHz (Band 14) / 2100 MHz (AWS)	12.65 / 15.95	8	320	8,648.30	1.63
Antenna B4	Quintel QS66512-2	700 MHz (Band 29) / 1900 MHz (PCS)	10.85 / 13.85	6	240	4,540.23	0.76
						Sector B Composite MPE%	**4.31**
Antenna C1	Kathrein 800-10121	850 MHz	11.45	1	20	213.32	0.05
Antenna C2	CCI DMP65R-BU8D	700 MHz (Band 12) / 850 MHz / 2300 MHz (WCS)	12.95 / 13.85 / 15.95	12	420	10,366.36	2.29
Antenna C3	Kathrein 800-10966	700 MHz (Band 14) / 2100 MHz (AWS)	13.55 / 16.15	8	320	9,573.38	1.86
Antenna C4	CCI TPA-65R-LCUUUU-H8	700 MHz (Band 29) / 1900 MHz (PCS)	12.95 / 13.75	6	240	5,038.56	0.92
						Sector C Composite MPE%	**5.12**

Table 3: AT&T *Emissions Levels*

The following table (*Table 4*) shows all additional carriers on site and their MPE% as recorded in the CSC active MPE database for this facility along with the newly calculated maximum AT&T MPE contributions per this report. FCC OET 65 specifies that for carriers utilizing directional antennas that the highest recorded sector value be used for composite site MPE values due to their greatly reduced emissions contributions in the directions of the adjacent sectors. For this site, the sector with the largest calculated MPE% is **Sector C**. *Table 5* below shows a summary for each AT&T Sector as well as the composite MPE value for the site.

Site Composite MPE%	
Carrier	**MPE%**
AT&T – Max Sector Value: Sector C	**5.12 %**
Nextel	0.24 %
Sprint	3.45 %
Clearwire	0.08 %
MetroPCS	0.94 %
Bloomfield PD	0.01 %
Municipal Ant. 1	0.17 %
Municipal Ant. 2	0.17 %
Municipal MW 1	0.00 %
Municipal MW 2	0.00 %
Site Total MPE %:	**10.18 %**

Table 4: All Carrier MPE Contributions

AT&T Sector A Total:	4.31 %
AT&T Sector B Total:	4.31 %
AT&T Sector C Total:	5.12 %
Site Total:	10.18 %

Table 5: Site MPE Summary

FCC OET 65 specifies that for carriers utilizing directional antennas that the highest recorded sector value be used for composite site MPE values due to their greatly reduced emissions contributions in the directions of the adjacent sectors. *Table 6* below details a breakdown by frequency band and technology for the MPE power values for the maximum calculated AT&T sector(s). For this site, the sector with the largest calculated MPE% is **Sector C**.

AT&T _ Frequency Band / Technology Max Power Values (Sector C)	# Channels	Watts ERP (Per Channel)	Height (feet)	Total Power Density ($\mu W/cm^2$)	Frequency (MHz)	Allowable MPE ($\mu W/cm^2$)	Calculated % MPE
AT&T 850 MHz UMTS	1	213.32	168	0.29	850 MHz	567	0.05%
AT&T 700 MHz LTE (Band 12)	4	756.94	168	4.15	700 MHz	467	0.89%
AT&T 850 MHz LTE / 5G NR	4	926.96	168	5.08	850 MHz	567	0.90%
AT&T 2300 MHz (WCS) LTE	4	907.70	168	4.97	2300 MHz (WCS)	1000	0.50%
AT&T 700 MHz LTE (Band 14)	4	869.08	168	4.76	700 MHz	467	1.02%
AT&T 2100 MHz (AWS) LTE	4	1,524.26	168	8.35	2100 MHz (AWS)	1000	0.84%
AT&T 700 MHz LTE (Band 29)	2	756.94	168	2.07	700 MHz	467	0.44%
AT&T 1900 MHz (PCS) LTE	4	881.17	168	4.83	1900 MHz (PCS)	1000	0.48%
						Total:	**5.12%**

Table 6: AT&T *Maximum Sector MPE Power Values*

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 AT&T 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:

AT&T Sector	Power Density Value (%)
Sector A:	4.31 %
Sector B:	4.31 %
Sector C:	5.12 %
AT&T Maximum Total (Max Sector: **Sector C**):	5.12 %
Site Total:	10.18 %
Site Compliance Status:	**COMPLIANT**

The anticipated composite MPE value for this site assuming all carriers present is **10.18 %** 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.

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