



Derek Maheux Program Manager c/o Cellco Partnership d/b/a Verizon Wireless Centerline Communications, LLC 750 West Center Street, Suite 301 West Bridgewater, MA 02379 Mobile: (508)649-3407 Dmaheux@clinellc.com

January 2, 2024

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

RE: Notice of Exempt Modification // Site: CHESHIRE NORTH CT (ATC: 370624) 1338 Highland Avenue, Cheshire CT 06410 N 41.536889 // W -72.893297

Dear Ms. Bachman,

Cellco Partnership d/b/a Verizon Wireless currently maintains twelve (12) antenna at the 70-ft level on the existing 74ft Tower, located at 1338 Highland Avenue, Cheshire, CT. The tower is owned by American Tower. Verizon Wireless proposed modification involves the installation of two (2) interference mitigation filters on Verizon Wireless existing antenna platform and mounting assembly.

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 Bethany's Chief Elected Official and Land Use Officer.

The planned modifications to the facility fall squarely within those activities explicitly provided for in R.C.S.A. § 16-50j-72(b)(2). Enclosed to accommodate this filing are construction drawings dated December 15, 2023, by A.T Engineering Services, LLC, a structural analysis dated December 7, 2023, by American Tower Corp., and a structural mount analysis by Colliers Engineering and Design dated November 14, 2023, and Non-Ionizing Electromagnetic Radiation (NIER) Study dated December 13, 2023, by Tower Engineering Professionals.

- 1. The proposed modifications will not result in an increase in the height of the existing structure.
- 2. The proposed modifications will not require the extension of the site boundary.





- 3. The proposed modifications will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.
- 4. The operation of the new antennas will not increase radio frequency emissions at the facility to a level at or above the Federal Communications 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, as shown in the attached structural analysis and a structural mount analysis, pursuant to certain conditions defined therein. Design and engineering are fully illustrated within final construction drawings.

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

Sincerely,

Derek Maheux

Derek Maheux, Program Manager c/o Cellco Partnership d/b/a Verizon Wireless Centerline Communications, LLC 750 West Center Street, Suite 301 West Bridgewater, MA 02379

Mobile: (508) 649 2307 Dmaheux@clinellc.com

Attachments: Exhibit 1 – Construction Drawings

Exhibit 2 – Property Card and GIS Exhibit 3 – Structural Analysis Exhibit 4 – Mount Analysis

Exhibit 5 – RF Emissions Analysis Report Evaluation Exhibit 6 – Available Original Tower Approval Records

Exhibit 7 – Notice Deliver Confirmations

cc: Sean Kimball – Town Manager – Chief Elected Official Michael Glidden – Town Planner - as P&Z official American Tower Corporation - as tower owner Mudddm LLC – as ground owner

EXHIBIT 1



TELEPHONE COMPANY: VERIZON PHONE: (800) 483-0722



ATC SITE NAME: MANKES SILO ATC SITE NUMBER: 370624

VERIZON SITE NAME: CHESHIRE NORTH CT - ATC

STEALTH SILO

MUDDM LLC

1338 HIGHLAND AVE

CHESHIRE,CT 06410

VERIZON SITE NUMBER: 5000383173

VERIZON FUZE PID: N/A

SITE ADDRESS: 1338 HIGHLAND AVE

CHESHIRE,CT 06410



LOCATION MAP

5000383173

REFER TO MOUNT MODIFICATION DRAWINGS

PAGES FOR VZW SMART KIT APPROVED VENDORS

***PMI AND REQUIREMENTS ALSO EMBEDDED IN MOUNT ANALYSIS REPORT

VERIZON AMENDMENT DRAWINGS

COMPLIA	ANCE CODE	PROJECT S	SUMMARY	PROJECT DESCRIPTION		SHEET	T INDEX		
ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE		SITE ADDRESS:		THE PROPOSED PROJECT INCLUDES MODIFYING GROUND BASED AND TOWER MOUNTED EQUIPMENT AS INDICATED PER BELOW:	SHEET NO:	DESCRIPTION:	REV:	DATE:	BY:
FOLLOWING CODES AS ADOF GOVERNMENT AUTHORITIES	PTED BY THE LOCAL . NOTHING IN THESE PLANS IS	1338 HIGHL CHESHIRE,	- · · · - · · · -	INSTALL MOUNT MODIFICATIONS, (2) FILTER(s)	G-001	TITLE SHEET	0	12/15/2023	LLR
TO BE CONSTRUED TO PERM THESE CODES.	MIT WORK NOT CONFORMING TO	COUNTY: NE	EW HAVEN	EXISTING (12) ANTENNA(s), (6) RRH(s), (2) OVP(s) AND (2) 1-1/4"	G-002	GENERAL NOTES	0	12/15/2023	LLR
. 2020 NFPA 70, NATIONAL E	` ,	GEOGRAPHIC C	OORDINATES:	HYBRID CABLE CABLE(s) TO REMAIN	-	EXISTING SURVEY	0	12/15/2023	LLR
 2022 CONNECTICUT STATE 2021 INTERNATIONAL BUIL 		LATITUDE: 41°			C-101	DETAILED SITE PLAN	0	12/15/2023	LLR
ESIGN CRITERIA FROM TOW ASIC WIND SPEED:	VER STRUCTUAL ANALYSIS: 118 MPH (3-SECOND GUST)	LONGITUDE: 72° GROUND ELEVAT			C-201	TOWER ELEVATION	0	12/15/2023	LLR
BASIC WIND SPEED: BASIC WIND SPEED W/ ICE:	50 MPH (3-SECOND GUST) W/ 1.00" RADIAL ICE				C-401	ANTENNA INFORMATION & SCHEDU	JLE 0	12/15/2023	LLR
2005(0)	CONCURRENT				C-501	CONSTRUCTION DETAILS	0	12/15/2023	LLR
CODE(S):	ANSI/TIA-222-H / 2021 IBC / 2022 CONNECTICUT STATE				E-501	GROUNDING DETAILS	0	12/15/2023	LLR
EXPOSURE CATEGORY:	BUILDING CODE B			PROJECT NOTES	R-601	SUPPLEMENTAL			
RISK CATEGORY: TOPO FACTOR PROCEDURE: TOPOGRAPHIC CATEGORY:	METHOD 1	PROJEC [*]	T TEAM	THE FACILITY IS UNMANNED. A TECHNICIAN WILL VISIT THE SITE APPROXIMATELY ONCE A					
SPECTRAL RESPONSE: BITE CLASS:	S _S =0.20, S ₁ =0.06 D - STIFF SOIL - DEFAULT		APPLICANT:	MONTH FOR ROUTINE INSPECTION AND MAINTENANCE. 3. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT LAND DISTURBANCE OF EFFECT OF STORMWATER PRAINCE.					
NFORMATION TAKEN FROM S COMPLETED BY ATC, DATED		AMERICAN TOWER VERIZON WIRELESS 10 PRESIDENTIAL WAY WOBURN, MA 01801		DISTURBANCE OR EFFECT OF STORM WATER DRAINAGE. 4. NO SANITARY SEWER, POTABLE WATER OR TRASH DISPOSAL IS REQUIRED. 5. HANDICAP ACCESS IS NOT REQUIRED.					
		ENGINEER:		THE PROJECT DEPICTED IN THESE PLANS QUALIFIES AS AN ELIGIBLE FACILITIES REQUEST ENTITLED TO EXPEDITED					
		ATC TOWER SERVICES, LLC	REVIEW UNDER 47 U.S.C. § 1455(A) AS A MODIFICATION OF AN EXISTING WIRELESS TOWER THAT INVOLVES THE	CONTRACTOR PMI REQUIREMENTS					
UTILITY COMPANIES POWER COMPANY: NORTHEAST UTILITIES PHONE: (800) 286-2000		NORTHEAST UTILITIES PROPERTY OWNER:		COLLOCATION, REMOVAL, AND/OR REPLACEMENT OF TRANSMISSION EQUIPMENT THAT IS NOT A SUBSTANTIAL CHANGE UNDER CFR § 1.61000 (B)(7).	PMI ACCE	SSED AT:	HTTPS://PMI.VZWSMART.CC	DM	
				PROJECT LOCATION DIRECTIONS	SMART TO	OOL VENDOR PROJECT NUMBER:	10208095		

FROM NEW HAVEN DRIVE NORTH ON CHURCH STREET WHICH TURNS INTO WHITNEY AVENUE (CT-10) AT THE HAMDEN/ CHESHIRE

LINE IT BECOMES HIGHLAND AVENUE CONTINUE NORTH TO

ADDRESS 1338 HIGHLAND AVENUE ON THE RIGHT.

VZW LOCATION CODE (PSLC):

MOUNT MODIFICATION REQUIRED:

VZW APPROVED SMART KIT VENDORS:



A.T. ENGINEERING SERVICES LLC

1 FENTON MAIN SUITE 300 CARY, NC 27511 PHONE: (919) 468-0112 PEC.0001553

THE USE AND PUBLICATION OF THESE DRAWINGS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY ARE PREPARED. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO AMERICAN TOWER OR THE SPECIFIED CARRIER IS STRICTLY PROHIBITED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. CONTRACTOR(S) MUST VERIFY ALL DIMENSIONS AND ADVISE AMERICAN TOWER OR THE SPECIFIED CARRIER OF ANY DISCREPANCIES. ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION.

REV.	DESCRIPTION	BY	DATE
\wedge	FOR CONSTRUCTION	LLR	12/15/2023
$\overline{\wedge}$			
-			
\sim			
\triangle			
\triangle _			

ATC SITE NUMBER: 370624
ATC SITE NAME:

MANKES SILO

VERIZON SITE NAME:
CHESHIRE NORTH CT - ATC
STEALTH SILO

SITE ADDRESS: 1338 HIGHLAND AVE CHESHIRE.CT 06410

SEAL:



verizon /

ATC JOB NO: CUSTOMER ID:

14519479_G0

CHESHIRE NORTH CT - ATC STEALTH

CUSTOMER #: 5000383173

TITLE SHEET

SHEET NUMBER

G-001

GENERAL CONSTRUCTION NOTES:

- OWNER FURNISHED MATERIALS, VERIZON "THE COMPANY" WILL PROVIDE AND THE CONTRACTOR WILL INSTALL
 - A. BTS EQUIPMENT FRAME (PLATFORM) AND ICEBRIDGE SHELTER (GROUND BUILD/CO-LOCATE ONLY)
 - AC/TELCO INTERFACE BOX (PPC)

 - D. TOWERS, MONOPOLES
 - TOWER LIGHTING
 - GENERATORS & LIQUID PROPANE TANK
 - ANTENNA STANDARD BRACKETS, FRAMES AND PIPES FOR MOUNTING
 - ANTENNAS (INSTALLED BY OTHERS)
 - TRANSMISSION LINE
 - TRANSMISSION LINE JUMPERS
 - TRANSMISSION LINE CONNECTORS WITH WEATHERPROOFING KITS
 - TRANSMISSION LINE GROUND KITS
 - HANGERS
 - HOISTING GRIPS
 - O. BTS EQUIPMENT
- THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL OTHER MATERIALS FOR THE COMPLETE INSTALLATION OF THE SITE INCLUDING, BUT NOT LIMITED TO, SUCH MATERIALS AS FENCING, STRUCTURAL STEEL SUPPORTING SUB-FRAME FOR PLATFORM, ROOFING LABOR AND MATERIALS GROUNDING RINGS GROUNDING WIRES COPPER-CLAD OR XIT CHEMICAL GROUND ROD(S), BUSS BARS, TRANSFORMERS AND DISCONNECT SWITCHES WHERE APPLICABLE, TEMPORARY ELECTRICAL POWER, CONDUIT, LANDSCAPING COMPOUND STONE, CRANES, CORE DRILLING, SLEEPERS AND RUBBER MATTING, REBAR, CONCRETE CAISSONS, PADS AND/OR AUGER MOUNTS, MISCELLANEOUS FASTENERS, CABLE TRAYS, NON-STANDARD ANTENNA FRAMES AND ALL OTHER MATERIAL AND LABOR REQUIRED TO COMPLETE THE JOB ACCORDING TO THE DRAWINGS AND SPECIFICATIONS. IT IS THE POSITION OF VERIZON TO APPLY FOR PERMITTING AND CONTRACTOR RESPONSIBLE FOR PICKUP AND PAYMENT OF REQUIRED
- ALL WORK SHALL CONFORM TO ALL CURRENT APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING ANSI/EIA/TIA-222, AND COMPLY WITH ATC CONSTRUCTION
- CONTRACTOR SHALL CONTACT LOCAL 811 FOR IDENTIFICATION OF UNDERGROUND
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED INSPECTIONS.
- ALL DIMENSIONS TO, OF, AND ON EXISTING BUILDINGS, DRAINAGE STRUCTURES, AND SITE IMPROVEMENTS SHALL BE VERIFIED IN FIELD BY CONTRACTOR WITH ALL DISCREPANCIES REPORTED TO THE ENGINEER.
- DO NOT CHANGE SIZE OR SPACING OF STRUCTURAL ELEMENTS
- DETAILS SHOWN ARE TYPICAL: SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS
- THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR
- CONTRACTOR SHALL BRACE STRUCTURES UNTIL ALL STRUCTURAL ELEMENTS NEEDED FOR STABILITY ARE INSTALLED. THESE ELEMENTS ARE AS FOLLOWS: LATERAL BRACING, 34.
- CONTRACTOR SHALL DETERMINE EXACT LOCATION OF EXISTING UTILITIES, GROUNDS DRAINS, DRAIN PIPES, VENTS, ETC, BEFORE COMMENCING WORK
- INCORRECTLY FABRICATED, DAMAGED, OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE VERIZON REP PRIOR TO REMEDIAL OR CORRECTIVE ACTION, ANY SUCH REMEDIAL ACTION SHALL REQUIRE WRITTEN APPROVAL BY THE VERIZON REP PRIOR TO PROCEEDING.
- EACH CONTRACTOR SHALL COOPERATE WITH THE VERIZON REP, AND COORDINATE HIS WORK WITH THE WORK OF OTHERS.
- CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED BY CONSTRUCTION OF THIS PROJECT TO MATCH EXISTING PRE-CONSTRUCTION CONDITIONS TO THE SATISFACTION
- ALL CABLE/CONDUIT ENTRY/EXIT PORTS SHALL BE WEATHERPROOFED DURING INSTALLATION LISING A SILICONE SEALANT
- WHERE EXISTING CONDITIONS DO NOT MATCH THOSE SHOWN IN THIS PLAN SET. CONTRACTOR SHALL NOTIFY THE VERIZON REP AND ENGINEER OF RECORD
- CONTRACTOR SHALL ENSURE ALL SUBCONTRACTORS ARE PROVIDED WITH A COMPLETE AND CURRENT SET OF DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT
- CONTRACTOR SHALL REMOVE ALL RUBBISH AND DEBRIS FROM THE SITE AT THE END OF
- CONTRACTOR SHALL COORDINATE WORK SCHEDULE WITH AMERICAN TOWER CORPORATION (ATC) AND TAKE PRECAUTIONS TO MINIMIZE IMPACT AND DISRUPTION OF OTHER OCCUPANTS OF THE FACILITY.
- CONTRACTOR SHALL FURNISH VERIZON AND AMERICAN TOWER CORPORATION (ATC) ITH A PDF MARKED UP AS-BUILT SET OF DRAWINGS UPON COMPLETION OF WOR
- PRIOR TO SUBMISSION OF BID. CONTRACTOR SHALL COORDINATE WITH VERIZON REP TO DETERMINE WHAT, IF ANY, ITEMS WILL BE PROVIDED. ALL ITEMS NOT PROVIDED SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR. CONTRACTOR WILL INSTALL

- 22. PRIOR TO SUBMISSION OF BID. CONTRACTOR SHALL COORDINATE WITH VERIZON REP TO DETERMINE IF ANY PERMITS WILL BE OBTAINED BY CONTRACTOR. ALL REQUIRED PERMITS NOT OBTAINED BY VERIZON MUST BE OBTAINED, AND PAID FOR, BY THE
- CONTRACTOR SHALL INSTALL ALL SITE SIGNAGE IN ACCORDANCE WITH VERIZON SPECIFICATIONS AND REQUIREMENTS.
- ICE BRIDGE (CABLE TRAY WITH COVER) (GROUND BUILD/CO-LOCATE ONLY, GC
 TO FURNISH AND INSTALL FOR ROOFTOP INSTALLATION)

 24. CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS TO VERIZON FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
 - ALL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND LOCATED ACCORDING TO VERIZON SPECIFICATIONS, AND AS
 - 26. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
 - CONTRACTOR SHALL NOTIFY VERIZON REP A MINIMUM OF 48 HOURS IN ADVANCE OF POURING CONCRETE OR BACKFILLING ANY UNDERGROUND UTILITIES, FOUNDATIONS OR SEALING ANY WALL, FLOOR OR ROOF PENETRATIONS FOR ENGINEERING REVIEW AND
 - WHEN THE PROJECT SCOPE REQUIRES THE USE OF THE SAFETY CLIMB, THE GENERAL CONTRACTOR SHALL ENSURE THE SAFETY CLIMB IS FREE OF OBSTRUCTIONS, NOT RUBBING ON OR TRAPPED BY ANY INSTALLED CUSTOMER EQUIPMENT. IS VISUALLY AUT, MEETS MANUFACTURER INSTALLATION SPECIFICATIONS, AND IS FIRMLY SECURED AT ALL CABLE GUIDE LOCATIONS UPON PROJECT COMPLETION
 - COMPLETION OF PROJECT SHALL NOT OBSTRUCT TRAP LOOSEN OR OTHERWISE CAUSE FAILURE TO MEET MANUFACTURER INSTALLATION REQUIREMENTS FOR THE SAFETY CLIMB.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SAFETY INCLUDING COMPLIANCE WITH ALL APPLICABLE OSHA STANDARDS AND RECOMMENDATIONS AND SHALL PROVIDE ALL NECESSARY SAFETY DEVICES INCLUDING PPE AND PPM AND CONSTRUCTION DEVICES SUCH AS WELDING AND FIRE PREVENTION, TEMPORARY SHORING, SCAFFOLDING, TRENCH BOXES/SLOPING, BARRIERS, ETC.
 - THE CONTRACTOR SHALL PROTECT AT HIS OWN EXPENSE, ALL EXISTING FACILITIES AND SUCH OF HIS NEW WORK LIABLE TO INJURY DURING THE CONSTRUCTION PERIOD. ANY DAMAGE CAUSED BY NEGLECT ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, OR BY THE ELEMENTS DUE TO NEGLECT ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, EITHER TO THE EXISTING WORK, OR TO HIS WORK OR THE WORK OF ANY OTHER CONTRACTOR, SHALL BE REPAIRED AT HIS EXPENSE TO THE OWNER'S SATISFACTION.
 - ALL WORK SHALL BE INSTALLED IN A FIRST CLASS, NEAT AND WORKMANLIKE MANNER BY MECHANICS SKILLED IN THE TRADE INVOLVED. THE QUALITY OF WORKMANSHIP SHALL BE SUBJECT TO THE APPROVAL OF THE VERIZON REP. ANY WORK FOLIND BY THE VERIZON REP TO BE OF INFERIOR QUALITY AND/OR WORKMANSHIP SHALL BE REPLACED AND/OR REWORKED AT CONTRACTOR EXPENSE UNTIL APPROVAL IS
 - IN ORDER TO ESTABLISH STANDARDS OF QUALITY AND PERFORMANCE, ALL TYPES OF MATERIALS LISTED HEREINAFTER BY MANUFACTURER'S NAMES AND/OR MANUFACTURER'S CATALOG NUMBER SHALL BE PROVIDED BY THESE MANUFACTURERS
 - VERIZON FURNISHED EQUIPMENT SHALL BE PICKED-UP AT THE VERIZON WAREHOUSE, NO LATER THAN 48HR AFTER BEING NOTIFIED INSURED, STORED, UNCRATE, PROTECTED AND INSTALLED BY THE CONTRACTOR WITH ALL APPLIETENANCES REQUIRED TO PLACE THE EQUIPMENT IN OPERATION, READY FOR USE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EQUIPMENT AFTER PICKING IT UP.
 - 35. VERIZON OR HIS ARCHITECT/ENGINEER RESERVES THE RIGHT TO REJECT ANY EQUIPMENT OR MATERIALS WHICH, IN HIS OWN OPINION ARE NOT IN COMPLIANCE WITH THE CONTRACT DOCUMENTS, EITHER BEFORE OR AFTER INSTALLATION AND THE EQUIPMENT SHALL BE REPLACED WITH EQUIPMENT CONFORMING TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS BY THE CONTRACTOR AT NO COST TO

SPECIAL CONSTRUCTION ANTENNA INSTALLATION NOTES:

- WORK INCLUDED:
 - ANTENNA AND COAXIAL/HYBRID CABLES ARE FURNISHED BY VERIZON UNDER A SEPARATE CONTRACT. THE CONTRACTOR SHALL ASSIST ANTENNA INSTALLATION CONTRACTOR IN TERMS OF COORDINATION AND SITE ACCESS. ERECTION SUBCONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF
 - B. INSTALL ANTENNAS AS INDICATED ON DRAWINGS AND VERIZON SPECIFICATIONS.
 - C. INSTALL GALVANIZED STEEL ANTENNA MOUNTS AS INDICATED ON DRAWINGS.
 - D. INSTALL FURNISHED GALVANIZED STEEL OR ALUMINUM WAVEGUIDE
 - INSTALL COAXIAL/HYBRID CABLES AND TERMINATING BETWEEN ANTENNAS AND EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. WEATHERPROOF ALL CONNECTIONS BETWEEN THE ANTENNA AND EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. TERMINATE ALL COAXIAL/HYBRID CABLE THREE (3) FEET IN EXCESS OF ENTRY PORT LOCATION UNLESS OTHERWISE STATED
- ANTENNA AND COAXIAL/HYBRID CABLE GROUNDING:
 - A. ALL EXTERIOR #6 GREEN GROUND WIRE "DAISY CHAIN" CONNECTIONS ARE TO BE WEATHER SEALED WITH RFS CONNECTORS/SPLICE WEATHERPROOFING KIT #221213 OR EQUAL

ALL COAXIAL/HYBRID CABLE GROUNDING KITS ARE TO BE INSTALLED ON STRAIGHT RUNS OF COAXIAL/HYBRID CABLE (NOT WITHIN BENDS)

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



A.T. ENGINEERING SERVICES LLC

1 FENTON MAIN SUITE 300 **CARY. NC 27511** PHONE: (919) 468-0112 PEC.0001553

THE USE AND PUBLICATION OF THESE DRAWINGS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY ARE PREPARED. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO AMERICAN TOWER OR THE SPECIFIED CARRIER IS STRICTLY PROHIBITED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. CONTRACTOR(S) MUST VERIEV ALL DIMENSIONS AND ADVISE AMERICAN TOWER OR THE SPECIFIED CARRIER OF ANY DISCREPANCIES, ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY

REV.	DESCRIPTION	BY	DATE
\triangle _	FOR CONSTRUCTION	_ LLR	12/15/2023
\wedge			
$\overline{\wedge}$			
$\overline{\wedge}$			
$\overline{\wedge}$			
-			

ATC SITE NUMBER: 370624 ATC SITE NAME:

MANKES SILO

VERIZON SITE NAME: CHESHIRE NORTH CT - ATC

> STEALTH SILO SITE ADDRESS: 1338 HIGHLAND AVE CHESHIRE.CT 06410

SEAL



Digitally Signed: 2023-12-15



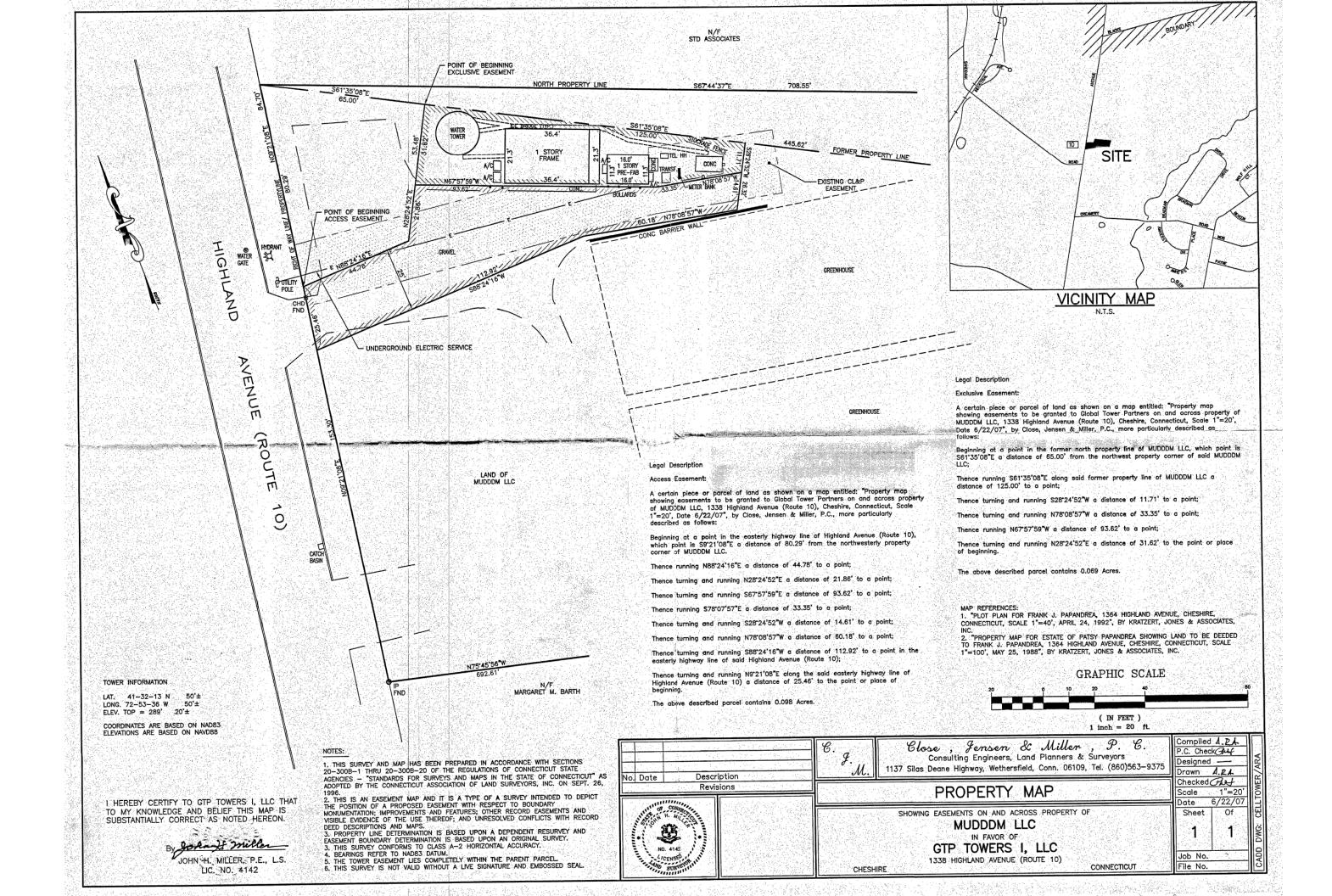
ATC JOB NO: CUSTOMER ID: 14519479 G0 CHESHIRE NORTH CT - ATC STEALTH

CUSTOMER #: 5000383173

GENERAL NOTES

SHEET NUMBER:

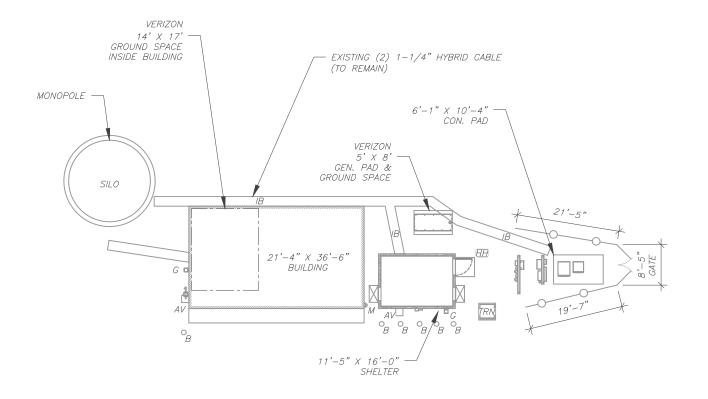
G-002

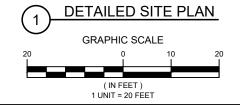


SITE PLAN NOTES:

- THIS SITE PLAN REPRESENTS THE BEST PRESENT KNOWLEDGE AVAILABLE TO THE ENGINEER AT THE TIME OF THIS DESIGN. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO CONSTRUCTION AND VERIFY ALL EXISTING CONDITIONS RELATED TO THE SCOPE OF WORK FOR THIS PROJECT.
- 2. ICE BRIDGE, CABLE LADDER, COAX PORT, AND COAX CABLE ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL CONFIRM THE EXACT LOCATION OF ALL PROPOSED AND EXISTING EQUIPMENT AND STRUCTURES DEPICTED ON THIS PLAN. BEFORE UTILIZING EXISTING CABLE SUPPORTS, COAX PORTS, INSTALLING NEW PORTS OR ANY OTHER EQUIPMENT, CONTRACTOR SHALL VERIFY ALL ASPECTS OF THE COMPONENTS MEET THE ATC SPECIFICATIONS.
- 3. NO ELECTRICAL SCOPE IS INCLUDED IN THIS PROJECT.

LEGEND 8 GROUNDING TEST WELL AUTOMATIC TRANSFER SWITCH ATS BOLLARD CSC CELL SITE CABINET D DISCONNECT ELECTRICAL FIBER GEN GENERATOR GENERATOR RECEPTACLE G HH, V HAND HOLE, VAULT ICE BRIDGE ΙB KENTROX BOX LIGHTING CONTROL LC METER PB PULL BOX POWER POLE TELCO TRN TRANSFORMER CHAINLINK FENCE









A.T. ENGINEERING SERVICES LLC

1 FENTON MAIN SUITE 300 CARY, NC 27511 PHONE: (919) 468-0112 PEC.0001553

THE USE AND PUBLICATION OF THESE DRAWINGS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY ARE PREPARED. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO AMERICAN TOWER OR THE SPECIFIED CARRIER IS STRICTLY PROHIBITED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. CONTRACTOR(S) MUST VERIFY ALL DIMENSIONS AND ADVISE AMERICAN TOWER OR THE SPECIFIED CARRIER OF ANY DISCREPANCIES. ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION.

REV.	DESCRIPTION	BY	DATE
△_	FOR CONSTRUCTION	LLR	12/15/2023
\wedge_{-}			
$\overline{\wedge}^{-}$			
$\overline{\wedge}^{-}$			
$\overline{\wedge}$			
\sim			

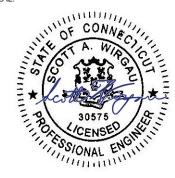
ATC SITE NUMBER: 370624
ATC SITE NAME:

MANKES SILO

VERIZON SITE NAME:
CHESHIRE NORTH CT - ATC
STEALTH SILO

SITE ADDRESS: 1338 HIGHLAND AVE CHESHIRE.CT 06410

SEAL



Digitally Signed: 2023-12-15



ATC JOB NO:

CUSTOMER ID:

ASE AREA = 4

14519479_G0
CHESHIRE NORTH CT - ATC STEALTH

CUSTOMER ID: | CHESTICE NORTH

DETAILED SITE PLAN

SHEET NUMBER:

C-101

0

TOP OF EXISTING HIGHEST APPURTENANCE ELEV 74' **EXISTING VERIZON** RAD CENTER @ 70' EXISTING AND PROPOSED VERIZON **EQUIPMENT AND MOUNT MODIFICATIONS** EXISTING CARRIER ANTENNAS RAD CENTER @ ELEV 54' EXISTING (2) 1-1/4" HYBRID CABLE -(TO REMAIN) EXISTING TOWER

TOWER ELEVATION

PER MOUNT ANALYSIS COMPLETED BY COLLIERS ENGINEERING & DESIGN, DATED 11/14/23, THE EXISTING MOUNT MUST BE MODIFIED TO ADEQUATELY SUPPORT THE PROPOSED LOADING. THE MOUNT MODIFICATION PROPOSED IN THE MOUNT ANALYSIS. INCLUDED AT THE END OF THIS PLAN SET, MUST BE INSTALLED PRIOR TO THE INSTALLATION OF THE PROPOSED ANTENNAS AND OTHER EQUIPMENT.

- IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM WITH THE PROJECT MANAGER THAT THEY HAVE THE MOST RECENT VERSION OF THE STRUCTURAL ANALYSIS BEFORE COMMENCING WORK. EXISTING AND PROPOSED TOWER APPURTENANCES, MOUNTS, AND ANTENNAS ARE SHOWN BASED ON THE STRUCTURAL ANALYSIS.
- 2. WHERE APPLICABLE, ALL NEW ANTENNAS, EQUIPMENT, MOUNTS, CABLING, ETC. SHALL BE PAINTED/SOCKED TO MATCH EXISTING EQUIPMENT IN ACCORDANCE WITH FAA, JURISDICTION, AND/OR OTHER LOCAL REQUIREMENTS.
- 3. TOWER ELEVATIONS ARE MEASURED FROM TOP OF BASE PLATE TO MATCH STRUCTURAL ANALYSIS. ELEVATIONS DO NOT REFLECT TRUE ABOVE GROUND LEVEL (A.G.L.)
- TOWER ELEVATION DEPICTION MAY NOT REFLECT ALL EQUIPMENT INCLUDED IN STRUCTURAL ANALYSIS. REFER TO STRUCTURAL ANALYSIS FOR FULL TOWER LOADING.

AMERICAN TOWER®

A.T. ENGINEERING SERVICES LLC 1 FENTON MAIN SUITE 300 **CARY, NC 27511** PHONE: (919) 468-0112 PEC.0001553

THE USE AND PUBLICATION OF THESE DRAWINGS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY ARE PREPARED. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO AMERICAN TOWER OR THE SPECIFIED CARRIER IS STRICTLY PROHIBITED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. CONTRACTOR(S) MUST VERIFY ALL DIMENSIONS AND ADVISE AMERICAN TOWER OR THE SPECIFIED CARRIER OF ANY DISCREPANCIES. ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION.

REV.	DESCRIPTION	BY	DATE
\wedge	FOR CONSTRUCTION	IIR	12/15/2023
\sim	TORTOGRAPHO	LLIX	12/10/2020
\sim			
\bigtriangleup —			
\triangle _			
\triangle _			

ATC SITE NUMBER: 370624 ATC SITE NAME:

MANKES SILO

VERIZON SITE NAME: CHESHIRE NORTH CT - ATC STEALTH SILO

SITE ADDRESS: 1338 HIGHLAND AVE CHESHIRE.CT 06410



Digitally Signed: 2023-12-15



ATC JOB NO: CUSTOMER ID:

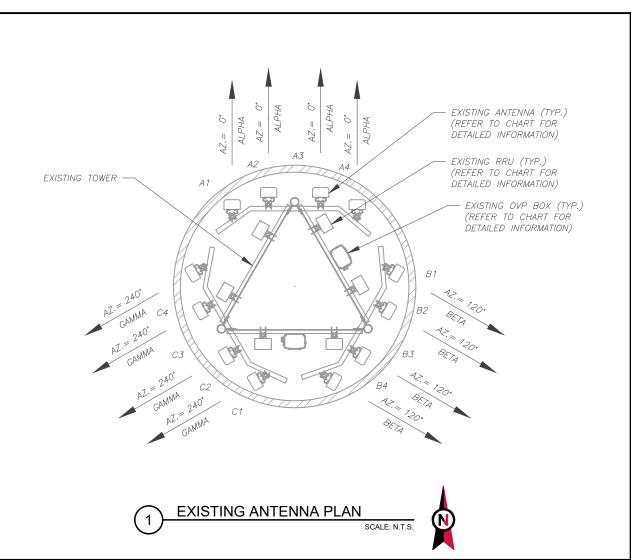
14519479_G0 CHESHIRE NORTH CT - ATC STEALTH

CUSTOMER #: 5000383173

TOWER ELEVATION

SHEET NUMBER:

C-201



PER MOUNT ANALYSIS COMPLETED BY COLLIERS ENGINEERING & DESIGN, DATED 11/14/23, THE EXISTING MOUNT MUST BE MODIFIED TO ADEQUATELY SUPPORT THE PROPOSED LOADING. THE MOUNT MODIFICATION PROPOSED IN THE MOUNT ANALYSIS, INCLUDED AT THE END OF THIS PLAN SET, MUST BE INSTALLED PRIOR TO THE INSTALLATION OF THE PROPOSED EXISTING ANTENNA (TYP.) ANTENNAS AND OTHER EQUIPMENT. (REFER TO CHART FOR DETAILED INFORMATION) PROPOSED MOUNT MODIFICATIONS (REFER TO SHEETS AT THE END OF EXISTING RRU (TYP.) THIS PLAN SET) (REFER TO CHART FOR DETAILED INFORMATION) EXISTING OVP BOX (TYP.) (REFER TO CHART FOR DETAILED INFORMATION) PROPOSED FILTER (TYP.) (REFER TO CHART FOR DETAILED INFORMATION) EXISTING TOWER

2 FINAL ANTENNA PLAN

- 🙀

	EXISTING ANTENNA SCHEDULE								Π
LOC	LOCATION ANTENNA SUMMARY						NON ANTENNA SUMMARY		
SECTOR	RAD	AZ	POS	ANTENNA	BAND	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS	
			A1	SBNHH-1D65B	_	RMN	_	_	
ALPHA	70'	70' 0°	A2	SBNHH-1D65B	_	RMN	RFV01U-D1A	RMN	$ _{i}$
ALPHA	70		A3	SBNHH-1D65B	_	RMN	RFV01U-D2A	RMN	
			A4	SBNHH-1D65B	_	RMN	_	-	
			B1	SBNHH-1D65B	_	RMN	_	_	
BETA	70'	120°	B2	SBNHH-1D65B	_	RMN	RFV01U-D1A	RMN	
BETA		120	B3	SBNHH-1D65B	_	RMN	RFV01U-D2A	RMN	lг
			B4	SBNHH-1D65B	_	RMN	_	-	
			C1	SBNHH-1D65B	_	RMN	_	-	
CAMMA	AMMA 70'	2400	C2	SBNHH-1D65B	_	RMN	RFV01U-D1A	RMN	
GAMMA		240°	C3	SBNHH-1D65B	_	RMN	RFV01U-D2A	RMN	
			C4	SBNHH-1D65B	_	RMN	_	-	

NOTES		FINAL ANTENNA SCHEDULE								
. CONFIRM WITH VERIZON REP	LOCATION				ANTENNA S	NON ANTENNA SUMMARY				
FOR APPLICABLE UPDATES/REVISIONS AND MOST RECENT RFDS FOR NSN	SECTOR	RAD	AZ	POS	ANTENNA	BAND	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS	
CONFIGURATION (CONFIG). GC				A1	SBNHH-1D65B	=	RMN	-	-	
TO CAP ALL UNUSED PORTS. CONFIRM SPACING OF PROPOSED EQUIP DOES NOT	ALPHA	70'	0°	A2	SBNHH-1D65B	-	RMN	(2) KA-6030 RFV01U-D1A	ADD RMN	
CAUSE TOWER CONFLICTS				A3	SBNHH-1D65B	-	RMN	RFV01U-D2A	RMN	
NOR IMPEDE TOWER CLIMBING PEGS.				A4	SBNHH-1D65B	-	RMN	-	-	
r EGG.	DETA	70'		B1	SBNHH-1D65B	=	RMN	-	-	
			120°	B2	SBNHH-1D65B	=	RMN	RFV01U-D1A	RMN	
STATUS ABBREVIATIONS	BETA	70		В3	SBNHH-1D65B	=	RMN	RFV01U-D2A	RMN	
RMV: TO BE REMOVED				B4	SBNHH-1D65B	-	RMN	-	-	
RMN: TO REMAIN REL: TO BE RELOCATED ADD: TO BE ADDED				C1	SBNHH-1D65B	-	RMN	-	-	
	GAMMA	70'	240°	C2	SBNHH-1D65B	-	RMN	RFV01U-D1A	RMN	
	GAIVIIVIA	70	240	C3	SBNHH-1D65B	-	RMN	RFV01U-D2A	RMN	
				C4	SBNHH-1D65B	=	RMN	-	-	

CABLE LENGTHS FOR JUMPERS

JUNCTION BOX TO RRU: 15'

RRU TO ANTENNA: 10'

EXISTING FIBER DISTRIBUTION / OVP	вох	EXISTING CABLING SUMMARY		
MODEL NUMBER	STATUS	CABLE QTY, SIZE, TYPE	STATUS	
(2) RRFDC-3315-PF-48	RMN	(2) 1-1/4" HYBRID CABLE	RMN	
_	RMV		RMV	

\bigcirc	EQUIPMENT SCHEDULES
$(^{3}\mathcal{F}$	

FINAL FIBER DISTRIBUTION / OVP BO	OX	FINAL CABLING SUMMARY		
MODEL NUMBER S		CABLE QTY, SIZE, TYPE	STATUS	
(2) RRFDC-3315-PF-48	RMN	(2) 1-1/4" HYBRID CABLE	RMN	
_	RMV		ADD	



A.T. ENGINEERING SERVICES LLC

1 FENTON MAIN SUITE 300 CARY, NC 27511 PHONE: (919) 468-0112 PEC.0001553

THE USE AND PUBLICATION OF THESE DRAWINGS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY ARE PREPARED. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO AMERICAN TOWER OR THE SPECIFIED CARRIER IS STRICTLY PROHIBITED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. CONTRACTOR(S) MUST VERIFY ALL DIMENSIONS AND ADVISE AMERICAN TOWER OR THE SPECIFIED CARRIER OF ANY DISCREPANCIES. ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION.

ı	REV.	DESCRIPTION	BY	DATE
l	<u> </u>	FOR CONSTRUCTION	LLR	12/15/2023
ı	\triangle _			
l	\wedge			
ı	$\overline{\wedge}$			
I	$\overline{\wedge}$			
1				

ATC SITE NUMBER: 370624
ATC SITE NAME:

MANKES SILO

VERIZON SITE NAME:
CHESHIRE NORTH CT - ATC
STEALTH SILO

SITE ADDRESS: 1338 HIGHLAND AVE CHESHIRE.CT 06410

SEAL



Digitally Signed: 2023-12-15



ATC JOB NO: CUSTOMER ID:

14519479_G0

CHESHIRE NORTH CT - ATC STEALTH

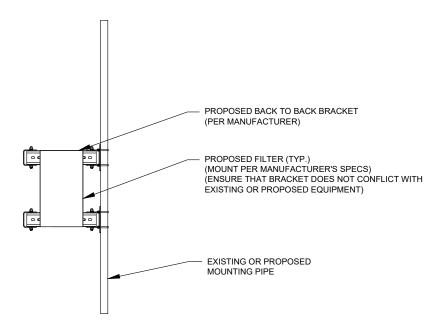
CUSTOMER #: 5000383173

ANTENNA INFORMATION & SCHEDULE

SHEET NUMBER:

C-401

EXISTING/PROPOSED MOUNTS AND/OR MOUNT MODIFICATIONS NOT SHOWN FOR CLARITY. REFER TO ANTENNA PLANS, MOUNT ANALYSES AND/OR MOUNT MODIFICATION DOCUMENTS FOR ADDITIONAL DETAIL.



PROPOSED RRU MOUNTING DETAIL - TYPICAL



1 FENTON MAIN SUITE 300 CARY, NC 27511 PHONE: (919) 468-0112 PEC.0001553

THE USE AND PUBLICATION OF THESE DRAWINGS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY ARE PREPARED. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO AMERICAN TOWER OR THE SPECIFIED CARRIER IS STRICTLY PROHIBITED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. CONTRACTOR(S) MUST VERIFY ALL DIMENSIONS AND ADVISE AMERICAN TOWER OR THE SPECIFIED CARRIER OF ANY DISCREPANCIES. ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION.

REV.	DESCRIPTION	BY	DATE
<u> </u>	FOR CONSTRUCTION	LLR	12/15/2023
\wedge _			
$\overline{\wedge}$			
$\overline{\wedge}$			
-			

ATC SITE NUMBER: 370624 ATC SITE NAME:

MANKES SILO

VERIZON SITE NAME: CHESHIRE NORTH CT - ATC STEALTH SILO

SITE ADDRESS: 1338 HIGHLAND AVE CHESHIRE,CT 06410



Digitally Signed: 2023-12-15



ATC JOB NO:

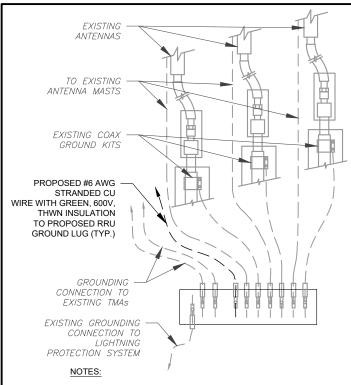
14519479_G0 CUSTOMER ID: CHESHIRE NORTH CT - ATC STEALTH

CUSTOMER #: 5000383173

CONSTRUCTION **DETAILS**

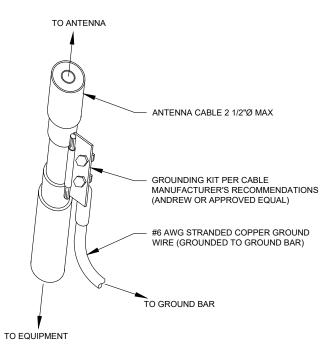
SHEET NUMBER:

C-501



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

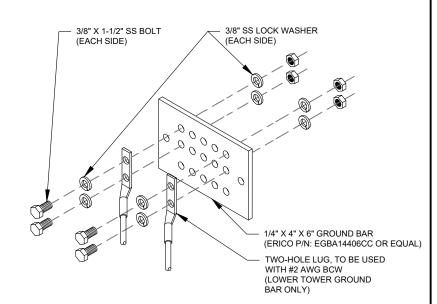




- GROUND KIT NOTES:

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

CABLE GROUND KIT CONNECTION DETAIL



GROUND BAR NOTES:

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





A.T. ENGINEERING SERVICES LLC

1 FENTON MAIN SUITE 300 **CARY, NC 27511** PHONE: (919) 468-0112 PEC.0001553

THE USE AND PUBLICATION OF THESE DRAWINGS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY ARE PREPARED. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO AMERICAN TOWER OR THE SPECIFIED CARRIER IS STRICTLY PROHIBITED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. CONTRACTOR(S) MUST VERIFY ALL DIMENSIONS AND ADVISE AMERICAN TOWER OR THE SPECIFIED CARRIER OF ANY DISCREPANCIES. ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY

REV.	DESCRIPTION	BY	DATE
<u> </u>	FOR CONSTRUCTION	LLR	12/15/2023
\triangle _			
\wedge			
$\overline{\wedge}$			
$\overline{\wedge}$			

ATC SITE NUMBER: 370624 ATC SITE NAME:

MANKES SILO

VERIZON SITE NAME: CHESHIRE NORTH CT - ATC STEALTH SILO

> SITE ADDRESS: 1338 HIGHLAND AVE CHESHIRE.CT 06410



Digitally Signed: 2023-12-15



ATC JOB NO: CUSTOMER ID:

14519479_G0 CHESHIRE NORTH CT - ATC STEALTH

CUSTOMER #: 5000383173

GROUNDING DETAILS

SHEET NUMBER:

E-501





Colliers Engineering & Design, Architecture, Landscaping Architecture, Surveying, CT, P.C. 1055 Washington Boulevard Stamford, CT 06901 203.324.0800 peter.albano@collierseng.com

Antenna Mount Analysis Report with Hardware Upgrades and PMI Requirements

Mount Analysis

SMART Tool Project #: 10208095 Colliers Engineering & Design Project #: 23777239

November 14, 2023

Site ID: 5000383173-VZW / CHESHIRE NORTH CT Site Information

- ATC Stealth Silo

Site Name: CHESHIRE NORTH CT - ATC Stealth Silo

Verizon Wireless Carrier Name:

Address: 1338 Highland Ave SNET Pole #46-S

Cheshire, Connecticut 06410

New Haven County

41.536889°

Latitude: Longitude: -72.893297°

76-Ft Concealment Silo Structure Information Tower Type: Mount Type: 12.00-Ft Concealment Mount

FUZE ID # 17123857

Analysis Results

Concealment Mount: 26.9% Pass w/ Hardware Upgrades*

* Antennas and equipment to be installed in compliance with PMI Requirements of this mount analysis.

***Contractor PMI Requirements: Included at the end of this MA report Available & Submitted via portal at https://pmi.vzwsmart.com For additional questions and support, please reach out to: pmisupport@colliersengineering.com

Report Prepared By: Frank Centone



Mount Structural Analysis Report () 12.00-Ft

November 14, 2023 Site ID: 5000383173-VZW / CHESHIRE NORTH CT -ATC Stealth Silo Page | 5

Requirements:

The existing mounts will be SUFFICIENT for the final loading configuration shown in attachment 2 upon the completion of the requirements listed below.

Contractor to install any missing bolts between mount face angle and silo framing angle with 3/4" dia. A325N bolt, with a total of two bolts at both top and bottom.

Contractor shall install the proposed filter units on new Site Pro 1 Dual Swivel Mount Kit (Part #: RRUDSM or EOR approved equivalent) in the location shown in the placement diagrams.

ANSI/ASSP rigging plan review services compliant with the requirements of ANSI/TIA 322 are available for a Construction Class IV site or other, if required. Separate review fees will apply.

Attachments:

- 1. Contractor Required Post Installation Inspection (PMI) Report Deliverables
- 2. Antenna Placement Diagrams
- 3. Mount Photos
- 4. Mount Mapping Report (for reference only)
- 5. Analysis Calculations

SUPPLEMENTAL

SHEET NUMBER:

R-601

REVISION:

0

MOUNT ANALYSIS

NOTE: THIS SHEET WAS CREATED BY OTHERS AND PROVIDED AT THE REQUEST OF THE CUSTOMER WITHOUT EDIT. PLEASE REFERENCE THE MOUNT ANALYSIS REPORT FOR COMPLETE MOUNT ANALYSIS CALCULATIONS AND DETAILS. SUPPLEMENTAL PAGES INCLUDED IN THE CONSTRUCTION DRAWINGS ARE FOR REFERENCE ONLY. GENERAL CONTRACTOR IS TO VERYIFY THEY HAVE THE MOST RECENT MOUNT ANALYSIS PRIOR TO CONTRUCTION.



KA-6030

TWIN BANDSTOP 900MHZ INTERFERENCE MITIGATION FILTER

The KA-6030 is ideal for co-located 700, 850 and 900 networks. Utilising a 2.6MHz guardband the KA-6030 provides rejection of the 900 UL band while passing 700/850 UL and DL bands. Capable of being used in an outdoor environment the KA-6030 contains two identical bandstop filters, suitable for 2x2 MIMO configuration, offering excellent insertion loss, group delay and rejection.

FEATURES

- Passes full 700 and 850 bands
- Low insertion loss
- Rejection of 900MHz uplink
- DC/AISG pass
- Twin unit
- Dual twin mounting available



TECHNICAL SPECIFICATIONS

BAND NAME	700 PATH / 850 UPLINK PATH	850 DOWNLINK PATH	
Passband	698 - 849MHz	869 - 891.5MHz	
Insertion loss	0.1dB typical / 0.3dB maximum	0.5dB typical, 1.45dB maximum	
Return loss	24dB typical,	18dB minimum	
Maximum input power (Per Port)	100W average	200W average and 66W per 5MHz	
Rejection	53dB minimum @ 894.1 - 896.5MHz		

ELECTRICAL	
Impedance	50Ohms
Intermodulation products	-160dBc maximum in UL Band (assuming 20MHz Signal), with 2 x 43dBm carriers -153dBc maximum with 2 x 43dBm

DC / AISG	
Passband	0 - 13MHz
Insertion loss	0.3dB maximum
Return loss	15dB minimum
Input voltage range	± 33V
DC current rating	2A continuous, 4A peak
Compliance	3GPP TS 25.461

ENVIRONMENTAL		
For further details of environmental compliance, please contact Kaelus.		
Temperature range	-20°C to +60°C -4°F to +140°F	
Ingress protection	IP67	
Altitude	2600m 8530ft	
Lightning protection	RF port: ±5kA maximum (8/20us), IEC 61000-4-5 – Unit must be terminated with some lightning protection circuit	
MTBF	>1,000,000 hours	
Compliance	ETSI EN 300 019 class 4.1H, RoHS, NEBS GR-487-CORE	

MECHANICAL		
Dimensions H x D x W	269 x 277 x 80mm 10.60 x 10.90 x 3.15in (Excluding brackets and connectors)	
Weight	8.0 kg 17.6 lbs (no bracket)	
Finish	Powder coated, light grey (RAL7035)	
Connectors	RF: 4.3-10 (F) x 4	
Mounting	Optional pole/wall bracket supplied with two metal clamps 45-178mm diameter poles or custom bracket. See ordering information.	

Rev 1 Aug 03 2022 KA-6030

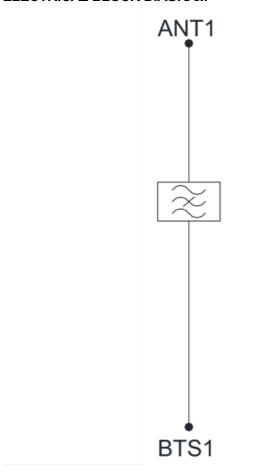


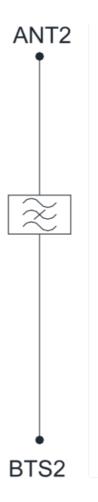
ORDERING INFORMATION

PART NUMBER	CONFIGURATION	OPTIONAL FEATURES	CONNECTORS
KA-6030-2032	TWIN, 2 in / 2 out	DC/AISG PASS	4.3-10 (F)



ELECTRICAL BLOCK DIAGRAM







MECHANICAL BLOCK DIAGRAM

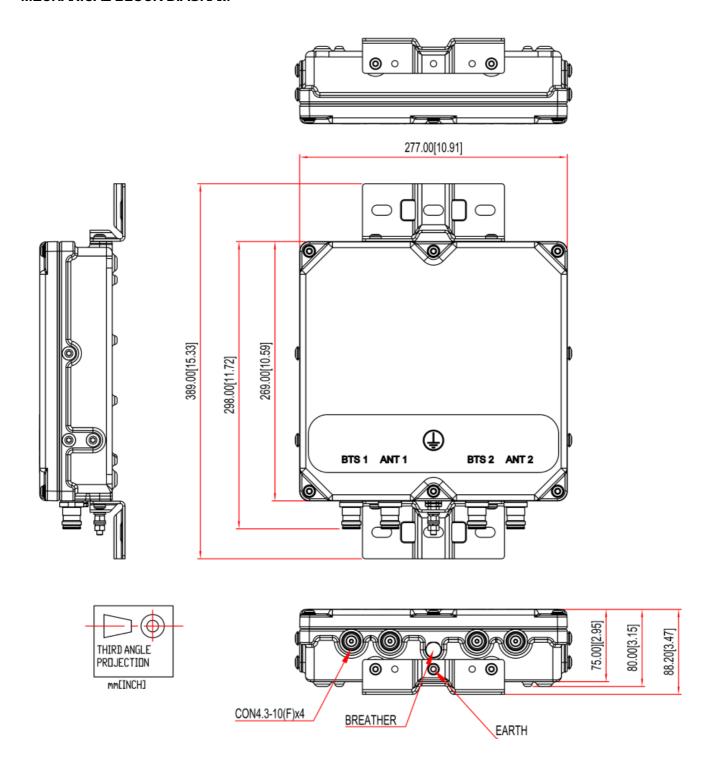
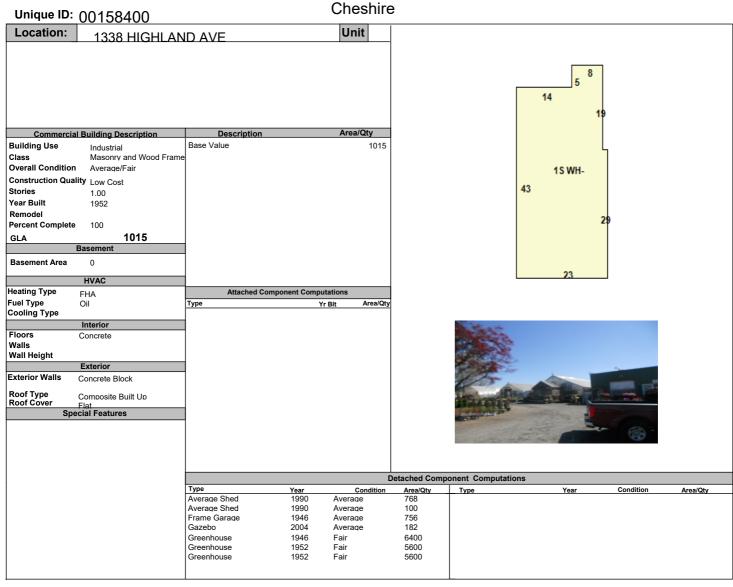


EXHIBIT 2

Cheshire

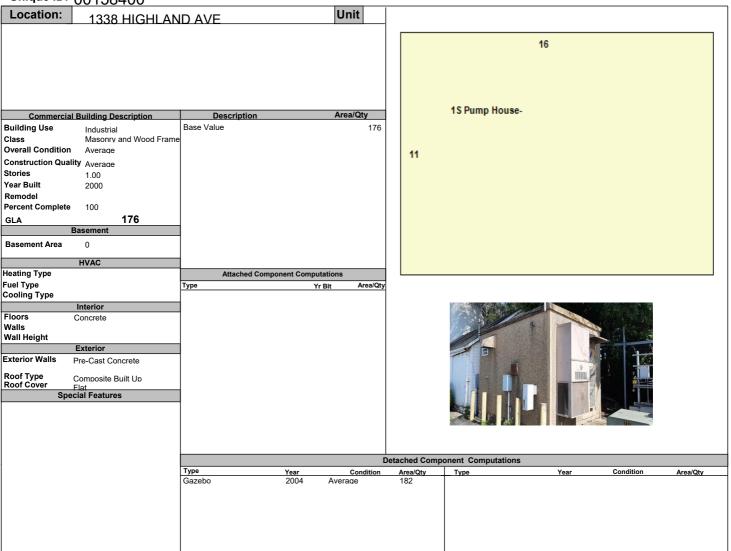
Card No: Unique ID: 00158400 1 Of 2 Location: 1338 HIGHLAND AVE Map Id: 28 15 Zone: I-2 Date Printed: 1/2/2024 Neighborhood: I-1A Last Update: 11/28/2023 Owner Of Record Volume/Page Date Sales Type Valid Sale Price 1672/0243 3/6/2003 Quit Claim No 0 MUDDDM LLC Exempt 1338 HIGHLAND AVE, CHESHIRE, CT 06410 **Prior Owner History** 1401/0021 4/27/2000 320.000 MANKE JONATHAN D & DEBRAH P Quit Claim No PAPANDREA FRANK J & NORMA S 0701/0255 12/30/1899 Warranty Deed No 0 Permit Number Date Permit Description 14762 1/3/2017 GAS PIPING FOR GENERATOR 32638 10/14/2016 ANTENNAS AND EQUIPMENT 32593 9/23/2016 12 ANTENNAS Appraised Value Supplemental Data Census/Tract 3431 Historic District Pro Total Land Value 259.000 Dev Map ID Cross Boarder Pro 18532 **Total Building Value** 23,700 GIS ID 490 App Date **Total Outbldg Value** 39.700 Route District **Total Market Value** 322,400 Utilities Acres State Item Codes Code Quantity Value Land Type Acres 490 **Total Value** 33-Indust Improve 7.00 27.790 3.00 0 Industrial 3.00 42-Public Util Blda 1.00 8.770 32-Indust Building 7.820 1.00 61-Farm 2.660 3.00 259.000 3.0000 3.00 Total Assessment History (Prior Years as of Oct 1) 490 Appraised Totals 2023 2022 2021 2020 2019 Type Acres Value Type Acres Value Tillable B 3.00 3840 311,850 2.920 2.660 2.920 2.920 Land 16,590 -140,600 168,330 168,330 168,330 Building Outbuilding 27.790 46.450 46.450 46.450 46.450 3840 **Totals** 3.00 Total 47.040 217,700 217.700 217,700 217,700 **Application Date: Expiration Date:** Comments



Cheshire

Card No: Unique ID: 00158400 2 Of 2 Location: 1338 HIGHLAND AVE Map Id: 28 15 Zone: I-2 Date Printed: 1/2/2024 Neighborhood: I-1A Last Update: 11/28/2023 Owner Of Record Volume/Page Date Sales Type Valid Sale Price 1672/0243 3/6/2003 Quit Claim No 0 MUDDDM LLC Exempt 1338 HIGHLAND AVE, CHESHIRE, CT 06410 **Prior Owner History** 1401/0021 4/27/2000 320.000 MANKE JONATHAN D & DEBRAH P Quit Claim No PAPANDREA FRANK J & NORMA S 0701/0255 12/30/1899 Warranty Deed No 0 Permit Number Date Permit Description 14762 1/3/2017 GAS PIPING FOR GENERATOR 32638 10/14/2016 ANTENNAS AND EQUIPMENT 32593 9/23/2016 12 ANTENNAS Appraised Value Supplemental Data Census/Tract 3431 Historic District Pro Total Land Value 259.000 Dev Map ID Cross Boarder Pro 18532 **Total Building Value** 23,700 GIS ID 490 App Date **Total Outbldg Value** 39.700 Route District **Total Market Value** 322,400 Utilities Acres State Item Codes Code Quantity Value Land Type Acres 490 **Total Value** 33-Indust Improve 7.00 27.790 3.00 0 Industrial 3.00 42-Public Util Blda 1.00 8.770 32-Indust Building 7.820 1.00 61-Farm 2.660 3.00 259.000 3.0000 3.00 Total Assessment History (Prior Years as of Oct 1) 490 Appraised Totals 2023 2022 2021 2020 2019 Type Acres Value Type Acres Value Tillable B 3.00 3840 311,850 2.920 2.660 2.920 2.920 Land 16,590 -140,600 168,330 168,330 168,330 Building Outbuilding 27.790 46.450 46.450 46.450 46.450 3840 **Totals** 3.00 Total 47.040 217,700 217.700 217,700 217,700 **Application Date: Expiration Date:** Comments

Unique ID: 00158400 Cheshire

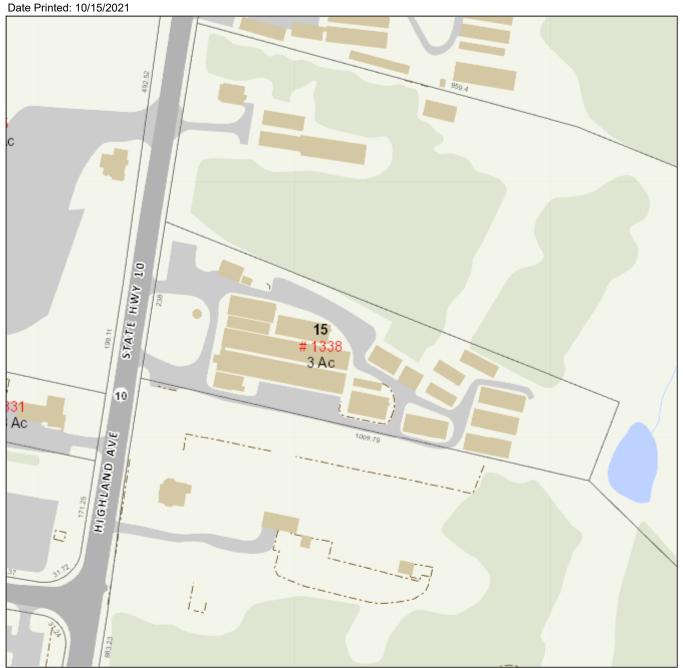


10/15/21, 11:29 AM Print Map

Town of Cheshire

Geographic Information System (GIS)





MAP DISCLAIMER - NOTICE OF LIABILITY
This map is for assessment purposes only. It is not for legal description or conveyances. All information is subject to verification by any user. The Town of Cheshire and its mapping contractors assume no legal responsibility for the information contained herein.

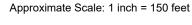






EXHIBIT 3



Structural Analysis Report

Structure : 78 ft Concealed Silo Tower

ATC Asset Name : Mankes Silo

ATC Asset Number : 370624

Engineering Number: 14519479_C3_03

Proposed Carrier: VERIZON WIRELESS

Carrier Site Name : CHESHIRE NORTH CT - ATC Stealth Silo

Carrier Site Number : 5000383173

Site Location : 1338 Highland Ave

Cheshire, CT 06410-0000

41.5369, -72.8933

County : New Haven

Date : December 7, 2023

Max Usage : 41%

Analysis Result: Pass

Created By:

Matthew Reeves, CWI Structural Engineer III





Table of Contents

Introduction	3
Supporting Documents	3
Analysis	3
Conclusion	3
Structure Usages	4
Maximum Reactions	4
Tower Loading	5
Standard Conditions	Attached
Calculations	Attached



<u>Introduction</u>

The purpose of this report is to summarize results of a structural analysis performed on the 78 ft Concealed Silo Tower tower to reflect the change in loading by VERIZON WIRELESS.

Supporting Documents

Tower Drawing:	Mapping by Structural Components Job #140862, dated October 17, 2014
Foundation Drawing:	Mapping by Structural Components Job #140862, dated October 17, 2014
Geotechnical Report:	S&ME Job #1261-08-261M, dated July 30, 2008

Analysis

The tower was analyzed using the most recent version of RISA-3D analysis software. This program considers an elastic three-dimensional model and second-order effects per ANSI/TIA-222.

Basic Wind Speed:	118 mph (3-second gust)	
Basic Wind Speed w/ Ice:	50 mph (3-second gust) w/ 1.00" radial ice concurrent	
Code(s):	ANSI/TIA-222-H / 2021 IBC / 2022 Connecticut State Building Code	
Exposure Category:	В	
Risk Category:	II .	
Topographic Factor Procedure:	Method 1	
Topographic Category:	1	
Spectral Response:	$Ss = 0.20, S_1 = 0.06$	
Site Class:	D - Stiff Soil - Default	

Conclusion

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

If you have any questions or require additional information, please reach out to your American Tower contact. If you do not have an American Tower contact and have an Engineering question, please contact Engineering@americantower.com Please include the American Tower asset name, asset number, and engineering number in the subject line for any questions.



Structure Usages

Structural Component	Usage	Result
Legs	4%	Pass
Diagonals	12%	Pass
Horizontals	23%	Pass
Concrete	16%	Pass
Foundation	41%	Pass

Maximum Reactions

Foundation	Moment (k-ft)	Axial (k)	Shear (k)
Base	958.3	371.9	22.1

^{*}Reactions shown reflect the results from the Load Case with maximum Moment

Structure base reactions were analyzed using available geotechnical and foundation information.



VERIZON WIRELESS Final Loading

Elev (ft)	Qty	Equipment	Lines		
	2	Kaelus KA-6030			
	2	Raycap RRFDC-3315-PF-48	(2) 1 1/4" Hybriflex Cable		
70.0	3	Light Sector Frame			
70.0	3	Samsung RFV01U-D1A			
	3	Samsung RFV01U-D2A			
	12	Commscope SBNHH-1D65B (40.6 lbs)			

Install proposed lines inside of silo.

Other Existing/Reserved Loading

Elev (ft)	Qty	Equipment	Lines	Carrier		
	3	Ericsson Radio 4460 B25+B66	(1) 1 1/4" Hybriflex Cable			
57.0	3	Ericsson Radio 4480 B71+B85A	(6) 1 5/8" Coax	T-MOBILE		
37.0	3 RFS APXVAALL24 43-U-NA20		(2) 1" (25.4mm) Hybrid (3) 2.00" (50.8mm) Hybrid	1-IVIOBILE		
56.0	3	Ericsson AIR 6419 B77G	-	AT&T MOBILITY		
	1	CCI DMP65R-BU6EA-K		AT&T MOBILITY		
	1	Kathrein Scala 80010965				
	1	Raycap DC9-48-60-24-8C-EV				
	2	CCI DMP65R-BU8E	(3) 0.40" (10.3mm) Fiber			
54.0	2	Kathrein Scala 80010966	(4) 0.82" (20.8mm) 8 AWG 6			
34.0	2	Raycap DC6-48-60-18-8F ("Squid")	(2) 0.92" (23.4mm) Cable			
	3	Ericsson RRUS 4415 B30	(12) 7/8" Coax			
	3	Ericsson RRUS 4449 B5, B12				
	3	Ericsson RRUS 4478 B14				
	3	Ericsson RRUS 8843 B2, B66A				
52.0	3	Ericsson Air 6449 B77D	-	AT&T MOBILITY		

⁽If table breaks across pages, please see previous page for data in merged cells)



Standard Conditions

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

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

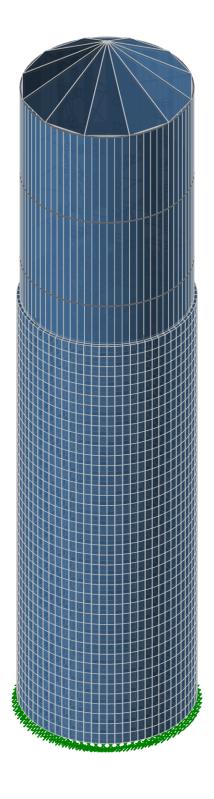
It is the responsibility of the client to ensure that the information provided to and used in the performance of our engineering services is correct and complete.

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

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

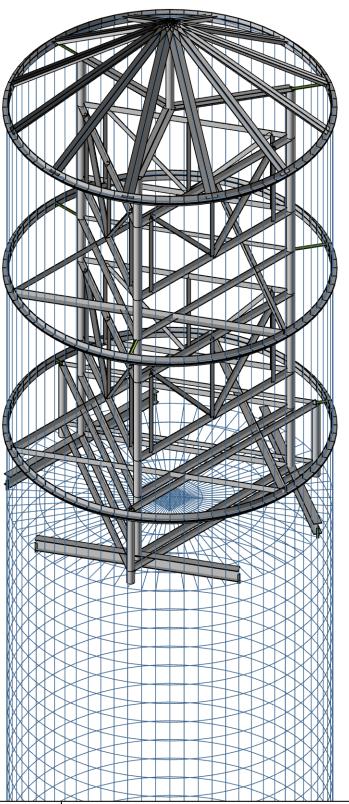
All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. is not responsible for the conclusions, opinions and recommendations made by others based on the information supplied herein.





	ATC	370624 - Mankes Silo	SK-1
AMERICAN TOWER	MER		Dec 07, 2023 at 09:46 AM
CORPORATION	14519479_C3_03	Rendered	Mankes Silo, 370624.r3d





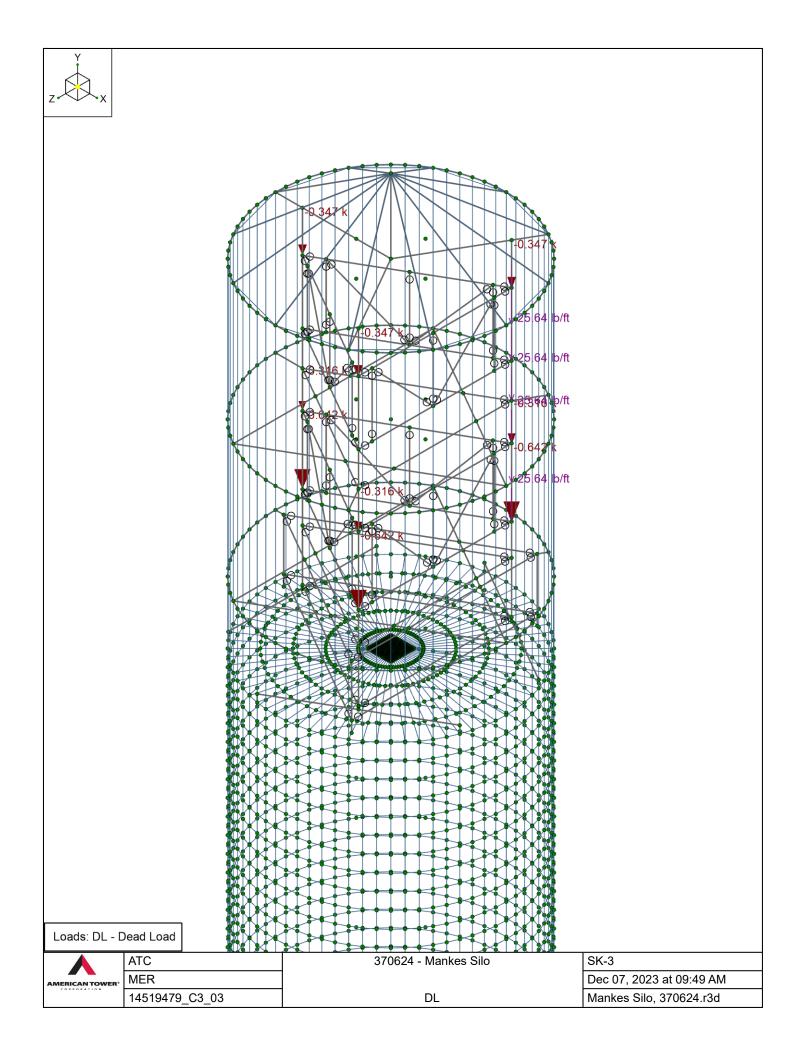
AMERICAN TOWER®

ATC MER 14519479_C3_03

370624 - Mankes Silo

Rendered

SK-2 Dec 07, 2023 at 09:48 AM Mankes Silo, 370624.r3d





Company : ATC Designer : MER

Job Number : 14519479_C3_03 Model Name : 370624 - Mankes Silo 12/7/2023 9:55:15 AM Checked By : _____

Model Settings

Number of Reported Sections	20
Number of Internal Sections	200
Member Area Load Mesh Size (in²)	144
Consider Shear Deformation	Yes
Consider Torsional Warping	Yes
Approximate Mesh Size (in)	12
Transfer Forces Between Intersecting Wood Walls	Yes
Increase Wood Wall Nailing Capacity for Wind Loads	Yes
Include P-Delta for Walls	Yes
Optimize Masonry and Wood Walls	Yes
Maximum Number of Iterations	3
Single	No
Multiple (Optimum)	Yes
Maximum	No

Global Axis corresponding to vertical direction	Υ
Convert Existing Data	Yes
Default Global Plane for z-axis	XZ
Plate Local Axis Orientation	Nodal

Hot Rolled Steel	AISC 15th (360-16): LRFD
Stiffness Adjustment	No
Notional Annex	None
Connections	AISC 15th (360-16): LRFD
Cold Formed Steel	AISI S100-16: LRFD
Stiffness Adjustment	Yes (Iterative)
Wood	AWC NDS-18 / SDPWS-15 ASD
Temperature	< 100F
Concrete	ACI 318-14
Masonry	TMS 402-16: Strength
Aluminum	AA ADM1-15: LRFD
Structure Type	Building
Stiffness Adjustment	Yes (Iterative)
Stainless	AISC 14th (360-10): LRFD
Stiffness Adjustment	Yes (Iterative)

Analysis Methodology	Exact Integration Method
Parme Beta Factor	0.65

Compression Stress Block	Rectangular Stress Block
Analyze using Cracked Sections	Yes
Leave room for horizontal rebar splices (2*d bar spacing)	Yes
List forces which were ignored for design in the Detail Report	Yes

Column Min Steel	1
Column Max Steel	8
Rebar Material Spec	ASTM A615
Warn if beam-column framing arrangement is not understood	No
Number of Shear Regions	4
Region 2 & 3 Spacing Increase Increment (in)	4

Code	ASCE 7-16



Company : ATC Designer : MER

Job Number : 14519479_C3_03 Model Name : 370624 - Mankes Silo 12/7/2023 9:55:15 AM Checked By : _____

Model Settings (Continued)

Risk Category	I or II
Drift Cat	Other
Base Elevation (ft)	
Include the weight of the structure in base shear calcs	Yes
$S_1(g)$	0.055
SD ₁ (g)	0.087
SD _s (g)	0.212
T _L (sec)	6
T Z (sec)	0.1
T X (sec)	0.1
C ₁ Z	0.02
C _I X	0.02
C₁Exp. Z	0.75
C _t Exp. X	0.75
RZ	3
RX	3
$\Omega_0 Z$	1
$\Omega_0 X$	1
C₀Z	4
C₀X	4
ρΖ	1
ρΧ	1



Company : ATC Designer : MER

Job Number : 14519479_C3_03 Model Name : 370624 - Mankes Silo 12/7/2023 9:55:15 AM Checked By : ___

Spectra Scaling Factor

Opcoura coaming rai					
Seismic Code:	ASCE 7-16				
C ₁ Z:	0.02	T Z (sec):	0.1	R Z:	3
C _t X:	0.02	T X (sec):	0.1	R X:	3
C _t Exp. Z:	0.75	C _t Exp. X:	0.75	Seismic Weight LC:	1 DL
Risk Category:	l or II	T _∟ (sec):	6		
SD₁(g):	0.087	SD _s (g):	0.212	S₁(g):	0.055
T Z Used (sec):	0.1	T Z Method A:	0.5249	T Z Upper Limit:	0.8924
T X Used (sec):	0.1	T X Method A:	0.5249	T X Upper Limit:	0.8924
Importance Fac.:	1	Design Cat:	В		
V Z (k):	21.1462	Gov. Eqn.:	ASCE Eqn 12.8-2		
V X (k):	21.1462	Gov. Eqn.:	ASCE Eqn 12.8-2		
. ,			•		
Weight (k):	299.2386				
Static Base Shear Z	(k): 21.1462	Unscaled Base Shear	r Z (k): 31.7733	Multiplier Z:	1
Static Base Shear X		Unscaled Base Shea		Multiplier X:	1
	•	•	•		
Scaling Factor Z:	0.6655	Scaling Factor X:	0.6656		



Company : ATC
Designer : MER
Job Number : 14519479_C3_03
Model Name : 370624 - Mankes Silo

12/7/2023 9:55:15 AM Checked By : __

Dynamic Data

Number Of Modes	100
Load Combination Number	DL
Acceleration of Gravity	32.2 (ft/sec^2)
Convergence Tolerance	0.0001



Job Number : 14519479_C3_03 Model Name : 370624 - Mankes Silo 12/7/2023 9:55:15 AM

Checked By : _____

Node Boundary Conditions

	Boundary Conditions	V 51 (* 3) (F) (F) (F)	700
	Node Label	X [k/in]	Y [k/in]	Z [k/in]
1	N1	Reaction	Reaction	Reaction
2	N2	Reaction	Reaction	Reaction
3	N3	Reaction	Reaction	Reaction
4	N4	Reaction	Reaction	Reaction
5	N5	Reaction	Reaction	Reaction
6	N6	Reaction	Reaction	Reaction
7	N7	Reaction	Reaction	Reaction
8	N8	Reaction	Reaction	Reaction
9	N9	Reaction	Reaction	Reaction
10	N10	Reaction	Reaction	Reaction
11	N11	Reaction	Reaction	Reaction
12	N12	Reaction	Reaction	Reaction
13	N13	Reaction	Reaction	Reaction
14	N14	Reaction	Reaction	Reaction
15	N15	Reaction	Reaction	Reaction
16	N16	Reaction	Reaction	Reaction
17	N17	Reaction	Reaction	Reaction
18	N18	Reaction	Reaction	Reaction
19	N19	Reaction	Reaction	Reaction
20	N20	Reaction	Reaction	Reaction
21	N21	Reaction	Reaction	Reaction
22	N22	Reaction	Reaction	Reaction
23	N23	Reaction	Reaction	Reaction
24	N24	Reaction	Reaction	Reaction
25	N25	Reaction	Reaction	Reaction
26	N26	Reaction	Reaction	Reaction
27	N27	Reaction	Reaction	Reaction
28	N28	Reaction	Reaction	Reaction
29	N29	Reaction	Reaction	Reaction
30	N30	Reaction	Reaction	Reaction
31	N31	Reaction	Reaction	Reaction
32	N32	Reaction	Reaction	Reaction
33	N33	Reaction	Reaction	Reaction
34	N34	Reaction	Reaction	Reaction
35	N35	Reaction	Reaction	Reaction
36	N36	Reaction	Reaction	Reaction
37	N37	Reaction	Reaction	Reaction
38	N38	Reaction	Reaction	Reaction
39	N39	Reaction	Reaction	Reaction
40	N40	Reaction	Reaction	Reaction
41	N41	Reaction	Reaction	Reaction
42	N42	Reaction	Reaction	Reaction
43	N43	Reaction	Reaction	Reaction
44	N44	Reaction	Reaction	Reaction
45	N45	Reaction	Reaction	Reaction
46	N46	Reaction	Reaction	Reaction
47	N47	Reaction	Reaction	Reaction
48	N48	Reaction	Reaction	Reaction
49	N49	Reaction	Reaction	Reaction
50	N50	Reaction	Reaction	Reaction
51			Reaction	
52	N51 N52	Reaction	Reaction	Reaction
53	N52 N53	Reaction		Reaction
		Reaction	Reaction Reaction	Reaction
54 55	N54	Reaction		Reaction
35	N55	Reaction	Reaction	Reaction



Job Number : 14519479_C3_03 Model Name : 370624 - Mankes Silo 12/7/2023 9:55:15 AM

Checked By : _____

Node Boundary Conditions (Continued)

	Node Label	X [k/in]	Y [k/in]	Z [k/in]
56	N56	Reaction	Reaction	Reaction
57	N57	Reaction	Reaction	Reaction
58	N58	Reaction	Reaction	Reaction
59	N59	Reaction	Reaction	Reaction
60	N60	Reaction	Reaction	Reaction
61	N61	Reaction	Reaction	Reaction
62	N62	Reaction	Reaction	Reaction
63	N63	Reaction	Reaction	Reaction
64	N64	Reaction	Reaction	Reaction
65	N65	Reaction	Reaction	Reaction
66	N66	Reaction	Reaction	Reaction
67	N67	Reaction	Reaction	Reaction
68	N68	Reaction	Reaction	Reaction
69	N69	Reaction	Reaction	Reaction
70	N70	Reaction	Reaction	Reaction
71	N71	Reaction	Reaction	Reaction
72	N72	Reaction	Reaction	Reaction

Hot Rolled Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm. Coeff. [1e⁵°F⁻¹]	Density [k/ft³]	Yield [ksi]	Ry	Fu [ksi]	Rt
1	A36 Gr.36	29000	11154	0.3	0.65	0.49	36	1.5	58	1.2
2	A572 Gr.50	29000	11154	0.3	0.65	0.49	50	1.1	65	1.1
3	A992	29000	11154	0.3	0.65	0.49	50	1.1	65	1.1
4	A500 Gr.B RND	29000	11154	0.3	0.65	0.49	42	1.4	58	1.3
5	A500 Gr.B Rect	29000	11154	0.3	0.65	0.49	46	1.4	58	1.3
6	A53 Gr.B	29000	11154	0.3	0.65	0.49	35	1.6	60	1.2
7	Link	1e+6		0.3	0.65	0	36	1.5	58	1.2

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design Rule	Area [in²]	lyy [in⁴]	Izz [in⁴]	J [in⁴]
1	H1	W8X18	None	None	A992	Typical	5.26	7.97	61.9	0.172
2	H2	L3X3X4	None	None	A36 Gr.36	Typical	1.44	1.23	1.23	0.0313
3	H3	L4X3X4	None	None	A36 Gr.36	Typical	1.69	1.33	2.75	0.0386
4	H4	LL3.5X3.5X5X3	None	None	A36 Gr.36	Typical	4.2	10.6	4.88	0.1462
5	H5	H5 L4X4X4 None		None	A36 Gr.36	Typical	1.93	3	3	0.0438
6	H6	LL3.5X3.5X5X3	None	None	A36 Gr.36	Typical	4.2	10.6	4.88	0.1462
7	Column1	HSS5X0.500	None	None	A53 Gr.B	Typical	6.62	17.2	17.2	34.4
8	Column2	HSS5.563X0.375	None	None	A500 Gr.B Rect	Typical	5.72	19.5	19.5	39
9	V1	L3X3X4	None	None	A36 Gr.36	Typical	1.44	1.23	1.23	0.0313

Node Loads and Enforced Displacements (BLC 14 : DA Weight)

	Node Label	L, D, M	Direction	Magnitude [(k, k-ft), (in, rad), (k*s²/ft, k*s²*ft)]
1	N1641	L	Υ	-0.347
2	N1642	L	Υ	-0.347
3	N1643	L	Υ	-0.347
4	N1469	L	Υ	-0.316
5	N1470	L	Υ	-0.316
6	N1471	L	Υ	-0.316
7	N1466		Υ	-0.642
8	N1467	L	Υ	-0.642
9	N1468	L	Υ	-0.642



Job Number : 14519479_C3_03 Model Name : 370624 - Mankes Silo 12/7/2023 9:55:15 AM

Checked By : _____

Member Distributed Loads (BLC 15 : LA Weight)

Ν	lember Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/ft]	End Magnitude [lb/ft, F, psf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	M27	Υ	-25.64	-25.64	0	%100
2	M28	Υ	-25.64	-25.64	0	%100
3	M241	Υ	-25.64	-25.64	0	%100
4	M242	Υ	-25.64	-25.64	0	%100

Basic Load Cases

	BLC Description	Category	Y Gravity	Nodal	Distributed	Surface(Plate/Wall)
1	Dead	DL	-1			
2	WLX	WLZ				1554
3	WLZ	WLX				1580
14	DA Weight	DL		9		
15	LA Weight	DL			4	

Load Combinations

	Description	Solve	P-Delta	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor
1	DL	Yes	Υ	DL	1										
2	IBC 21/ASCE Strength 1	Yes	Υ	DL	1.4										
3	IBC 21/ASCE Strength 4 (a) (a)	Yes	Υ	DL	1.2	WLX	1	LL	0.5	LLS	1				
4	IBC 21/ASCE Strength 4 (a) (b)	Yes	Υ	DL	1.2	WLZ	1	LL	0.5	LLS	1				
5	IBC 21/ASCE Strength 4 (a) (c)	Yes	Υ	DL	1.2	WLX	-1	LL	0.5	LLS	1				
6	IBC 21/ASCE Strength 4 (a) (d)	Yes	Υ	DL	1.2	WLZ	-1	LL	0.5	LLS	1				
7	IBC 21/ASCE Strength 5 (a)	Yes	Υ	DL	0.9	WLX	1								
8	IBC 21/ASCE Strength 5 (b)	Yes	Υ	DL	0.9	WLZ	1								
9	IBC 21/ASCE Strength 5 (c)	Yes	Υ	DL	0.9	WLX	-1								
10	IBC 21/ASCE Strength 5 (d)	Yes	Υ	DL	0.9	_ WLZ	1					_		_	
11	IBC 21/ASCE Strength 6 (a)	Yes	Υ	DL	1.2	Sds*DL	0.2	SX*SF	1	SZ*SF	0.3	LL	0.5	LLS	1
12	IBC 21/ASCE Strength 6 (b)	Yes	Υ	DL		Sds*DL		SZ*SF		SX*SF		LL	0.5	LLS	1
13	IBC 21/ASCE Strength 6 (c)	Yes	Υ	DL	1.2	Sds*DL		SX*SF		SZ*SF	-0.3	LL	0.5	LLS	1
14	IBC 21/ASCE Strength 6 (d)	Yes	Υ	DL	1.2	Sds*DL	0.2	SZ*SF	1	SX*SF	-0.3	LL	0.5	LLS	1
15		Yes	Υ	DL		Sds*DL		SX*SF		SZ*SF		LL	0.5	LLS	1
16	IBC 21/ASCE Strength 6 (f)	Yes	Υ	DL	1.2	Sds*DL	0.2	SZ*SF	1	SX*SF	-0.3	LL	0.5	LLS	1
17	IBC 21/ASCE Strength 6 (g)	Yes	Υ	DL	1.2	Sds*DL		SX*SF		SZ*SF		LL	0.5	LLS	1
18	J	Yes	Υ	DL	1.2	Sds*DL		SZ*SF		SX*SF	0.3	LL	0.5	LLS	1
19	IBC 21/ASCE Strength 7 (a)	Yes	Υ	DL	0.9	Sds*DL	-0.2	SX*SF	1	SZ*SF	0.3				
20	IBC 21/ASCE Strength 7 (b)	Yes	Υ	DL	0.9	Sds*DL		SZ*SF		SX*SF					
21	IBC 21/ASCE Strength 7 (c)	Yes	Υ	DL	0.9	Sds*DL		SX*SF		SZ*SF					
22	IBC 21/ASCE Strength 7 (d)	Yes	Υ	DL	0.9	Sds*DL		SZ*SF		SX*SF	-0.3				
23	IBC 21/ASCE Strength 7 (e)	Yes	Υ	DL	0.9	Sds*DL		SX*SF		SZ*SF					
24	IBC 21/ASCE Strength 7 (f)	Yes	Υ	DL		Sds*DL		SZ*SF		SX*SF					
25	IBC 21/ASCE Strength 7 (g)	Yes	Υ	DL		Sds*DL		SX*SF		SZ*SF					
26	IBC 21/ASCE Strength 7 (h)	Yes	Υ	DL	0.9	Sds*DL	-0.2	SZ*SF	-1	SX*SF	0.3				

_		Member	Shape	Code Check	Loc[ft]	LC:	Shear Check	Loc[ft]	Dir	r <u>L</u> C	phi*Pnc [k]	phi*Pnt [k]	phi*Mn y-y [k-ft]	phi*Mn z-z [k-ft]	Cb	_Eqn
	0	M7	W8X18	0.0238	5.4637	15	0.0085	0	У	11	103.2396	236.7	17.475	63.75	2.0615	H1-1b
	1	M8	W8X18	0.0243	0	15	0.0086	5.4637	У	15	103.2396	236.7	17.475	63.75	2.0631	H1-1b
	2	M9	W8X18	0.0252	5.4637	16	0.0091	0	У	12	103.2396	236.7	17.475	63.75	2.0724	H1-1b
	3	M10	W8X18	0.0258	0	16	0.009	5.4637	У	16	103.2396	236.7	17.475	63.75	2.0753	H1-1b
	4	M11	W8X18	0.0235	5.4637	16	0.0084	0	У	12	103.2396	236.7	17.475	63.75	2.0623	H1-1b
Ī	5	M12	W8X18	0.0239	0	16	0.0086	5.4637	У	16	103.2396	236.7	17.475	63.75	2.0627	H1-1b
	6	M13	HSS5X0.500	0.0001	0.8021	2	0	0.8021		15	208.1498	208.53	25.2	25.2	1	H1-1b*



Job Number : 14519479_C3_03 Model Name : 370624 - Mankes Silo 12/7/2023 9:55:15 AM

Checked By : _____

	A100 10111 (000		11101110		otoor oouo	Oncon		_	mana da y					
Membe	r Shape	Code Check	<pre>Loc[ft]</pre>	LC:	Shear Check	Loc[ft]	Dir	LCI	ohi*Pnc [k]	phi*Pnt [k]phi*Mn y-y [k-ft]	phi*Mn z-z [k-ft]	Cb	Egn
7 M14	HSS5X0.500	0.0083	0.2546		0.0029	0.2546			208.4917		25.2	25.2	1	H1-1b
8 M15	HSS5X0.500	0.0001	0.8021		0.0020	0.8021			208.1498		25.2	25.2	1	H1-1b*
9 M16	HSS5X0.500	0.0088	0.2546	-	0.003	0.2546		$\overline{}$	208.4917	_	25.2	25.2	1	H1-1b
10 M17	HSS5X0.500	0.0001	0.8021		0.003	0.8021			208.1498		25.2	25.2	1	H1-1b*
		0.0084	0.1903		0.0028	0.0021					25.2	25.2	1	H1-1b
	HSS5X0.500								208.4917					
12 M19	HSS5X0.500	0.0147	3.7917		0.0013	3.7917			200.1968		25.2	25.2	1	H1-1b
13 M20	HSS5X0.500	0.0122	3.7917		0.0026	3.7917			200.1968		25.2	25.2	1	H1-1b
14 M21	HSS5X0.500	0.0146	2.3125		0.006	2.3125			205.3906		25.2	25.2	1	H1-1b
15 M22	HSS5X0.500	0.0168	0	16	0.0026	5		_	<u> 194.2539</u>	_	25.2	25.2	1	H1-1b
16 M23	HSS5X0.500	0.042	2.7188		0.008	2.7188		16	204.2031	208.53	25.2	25.2	1	H1-1b
17 M24	HSS5X0.500	0.013	3.7917	16	0.0016	3.7917	Ľ	16	200.1968	208.53	25.2	25.2	1	H1-1b
18 M25	HSS5X0.500	0.0127	3.7917	12	0.0028	3.7917		15	200.1968	208.53	25.2	25.2	1	H1-1b
19 M26	HSS5X0.500	0.0151	2.3125	15	0.0064	2.3125	P	11	205.3906	208.53	25.2	25.2	1	H1-1b
20 M27	HSS5X0.500	0.0171		15	0.0029	5			194.2539		25.2	25.2	1	H1-1b
21 M28	HSS5X0.500	0.0415	2.7188		0.0088	2.7188			204.2031	208.53	25.2	25.2	1	H1-1b
22 M29	HSS5X0.500	0.0123	3.7917		0.0023	3.7917			200.1968		25.2	25.2	1	H1-1b
23 M30	HSS5X0.500	0.0155	2.3125		0.006	2.3125			205.3906		25.2	25.2	1	H1-1b
24 M31	HSS5X0.500	0.0167		12	0.0026	5			194.2539		25.2	25.2	1	H1-1b
25 M32	HSS5X0.500	0.0411	2.7188		0.0020	2.7188			204.2031	208.53	25.2	25.2	1	H1-1b
		_	3.7917						204.2031		25.2	25.2	1	
	HSS5X0.500	0.0139			0.0014	3.7917								H1-1b
27 M34	L3X3X4	0.1216	6.835		0.0032	13.67	У		4.1373	46.656	1.6881			H2-1
28 M35	L3X3X4	0.1185		2	0.0032	13.67		2	9.7924	46.656	1.6881			H2-1
29 M36	L3X3X4	0.1185	6.835		0.0032	13.67			9.7924	46.656	1.6881			H2-1
30 M37	L3X3X4	0.098	3.5254		0.0034	13.67	$\overline{}$		4.1373	46.656	1.6881			H2-1
31 M38	L3X3X4	0.0729	3.2376		0.0035	13.67			5.1077	46.656	1.6881			H2-1
32 M39	L3X3X4	0.098	3.6693		0.0035	0		11	4.1373	46.656	1.6881			H2-1
33 M40	L4X3X4	0.0706	5.6391		0.0023				10.5075	54.756	1.795			H2-1
34 M41	L4X3X4	0.0707	5.6391	2	0.0023	11.2782			8.5111	54.756	1.795			H2-1
35 M42	L4X3X4	0.0707	5.639	2	0.0023	11.278	У	2	8.5114	54.756	1.795			H2-1
36 M43	L4X3X4	0.0902	8.6663		0.0062	0		12	8.5114	54.756	1.795			H2-1
37 M44	L4X3X4	0.0933	8.6663	12	0.0061	11.278	y ´	15	8.5114	_54.756	1.795	3.1166	<u>1.1194</u>	H2-1
38 M45	L4X3X4	0.0883	8.6663	12	0.0061	11.278	y [']	16	8.5114	54.756	1.795	3.1188	1.121	H2-1
39 M46	L4X3X4	0.0713	1	12	0.008	0	y	12	49.9861	54.756	1.795	4.8054	1.5	H2-1
40 M47	L4X3X4	0.072	1	13	0.0081	0	y í	11	49.9861	54.756	1.795	4.8054	1.5	H2-1
41 M48	L4X3X4	0.0709	1	12	0.0079	0	y ·	12	49.9861	54.756	1.795	4.8054	1.5	H2-1
42 M49	L4X3X4	0.061	1	12	0.0077	0	v ·			54.756	1.795	4.8054	1.5	H2-1
43 M50	L4X3X4	0.0622	1	13	0.0079	0	v i		49.9861	54.756	1.795	4.8054	1.5	H2-1
44 M51	L4X3X4	0.0604	1	12	0.0077	0	v	_	49.9861	54.756	1.795	4.8054	1.5	H2-1
45 M52	L4X3X4	0.2103	4.5	16	0.0065	4.5	y ·			54.756	1.8437		1.1707	
46 M53	L4X3X4	0.2109	0	16	0.0062	0	v ·			54.756	1.8437		_	H2-1
47 M54	L4X3X4	0.0725	0	12	0.0068	1.278	-	-	49.5064	54.756	1.795	4.8054	1.5	H2-1
48 M55	L4X3X4	0.2087		15	0.0065	4.5	y V	15	37.163		1.8437			H2-1
49 M56	L4X3X4	0.209		15	0.0062	0	y ,	11	37.163	54.756	1.8437			H2-1
50 M57	L4X3X4	0.203	0	13	0.0067	1.278			49.5064	54.756	1.795	4.8054		H2-1
51 M58	L4X3X4	0.072		16	0.0065	4.5			37.163	54.756	1.8437			H2-1
51 M59	L4X3X4	0.2111	0	16	0.0062	0			37.163	54.756	1.8437			H2-1
53 M60	L4X3X4			12	0.0062				49.5064			4.116		H2-1
		0.0732	0			1.278				54.756	1.795	4.8054		
54 M61	L4X3X4	0.0993		16	0.0044	4.5			37.163	54.756	1.8437			H2-1
55 M62	L4X3X4	0.0993	0	16	0.0041	0			37.163	54.756	1.8437			H2-1
56 M63	L4X3X4	0.0603	0	12	0.0061	1.278			49.5064	54.756	1.795	4.8054		H2-1
57 M64	L4X3X4	0.0988		15	0.0045	4.5			37.163	54.756	1.8437			H2-1
58 M65	L4X3X4	0.0989		15	0.0041	0			37.163	54.756	1.8437			H2-1
59 M66	L4X3X4	0.0606		13	0.006	1.278			49.5064	54.756	1.795	4.8054		H2-1
60 M67	L4X3X4	0.0995		16	0.0044	4.5			37.163	54.756	1.8437			H2-1
61 M68	L4X3X4	0.0997	0	16	0.0042	0	y ſ	12	37.163	54.756	1.8437	4.0179	1.0596	H2-1



Job Number : 14519479_C3_03 Model Name : 370624 - Mankes Silo 12/7/2023 9:55:15 AM

Checked By : _____

LITTOPC	AISC ISTH (SUU	-10). LINI D	MICHID	<u> </u>	oteer code	Oncon	<u> </u>	<u> </u>	minaca					
Member	Shape	Code Check	Loc[ft]	LCS	Shear Check	Loc[ft]	Dir	LC	phi*Pnc [ŀ	k]phi*Pnt [k]	phi*Mn y-y [k-ft]]phi*Mn z-z [k-ft]	Cb	Eqn
62 M69	L4X3X4	0.0616	0	12	0.0061	1.278	у	16	49.5064	54.756	1.795	4.8054	1.5	H2-1
63 M70	L3X3X4	0.0056	0	12	0.005	5	У	16	26.8164	46.656	1.6881	3.2256	1	H2-1
64 M71	L3X3X4	0.0069	0	12	0.0002	5	У	16	26.8164	46.656	1.6881	3.2256	1	H2-1
65 M72	L3X3X4	0.0039	0	12	0.0048	5	У	12	26.8164	46.656	1.6881	3.2256	1	H2-1
66 M73	L3X3X4	0.0057	0	11	0.0049	5	٧	15	26.8164		1.6881	3.2256	1	H2-1
67 M74	L3X3X4	0.0069	0	11	0.0002	5			26.8164		1.6881	3.2256	1	H2-1
68 M75	L3X3X4	0.004		11	0.0048	5		11			1.6881	3.2256	1	H2-1
69 M76	L3X3X4	0.0055		12	0.005	5	v	16	26.8164		1.6881	3.2256	1	H2-1
70 M77	L3X3X4	0.0069		12	0.0002	5			26.8164		1.6881	3.2256	1	H2-1
71 M78	L3X3X4	0.0041		12	0.0048	5	_	$\overline{}$	26.8164		1.6881	3.2256	1	H2-1
72 M79	L3X3X4	0.0223		16			_		17.0857		1.6881		1.1364	
73 M80	L3X3X4		3.3988						17.0857		1.6881		1.1364	
74 M81	L3X3X4	0.0225	3.328						17.0857		1.6881		1.1364	
75 M82	L3X3X4	0.02	3.3988						17.0857		1.6881		1.1364	
76 M83	L3X3X4	0.0222	3.328						17.0857		1.6881		1.1364	
77 M84	L3X3X4		3.3988						17.0857		1.6881		1.1364	
78 M85	L4X4X4		8.6785						8.5644	62.532	3.1376	4.7106	1.5	H2-1
79 M86	L4X4X4		6.0439						8.5644	62.532	3.1376	4.7106	1.5	H2-1
80 M87	L4X4X4		8.6785						8.5644	62.532	3.1376	4.7106	1.5	H2-1
	LL3.5X3.5X5X3		0	7					24.1568		12.4182	7.7775	1.0	H1-1b
	LL3.5X3.5X5X3	0.0166	0.7415		0.0009	0.7410			24.1568		12.4182	7.7775	1	H1-1b*
	LL3.5X3.5X5X3		0.7415						24.1568		12.4182	7.7775	1	H1-1b*
	LL3.5X3.5X5X3		0.7415		0.0011	0.7413			24.1568		12.4182	7.9402	1	H1-1b
	LL3.5X3.5X5X3		0.7415		0.0011	0			24.1568		12.4182	7.9402	1	H1-1b
	LL3.5X3.5X5X3		0.7415						24.1568		12.4182	7.9402	1	H1-1b
	LL3.5X3.5X5X3			11					24.1568		12.4182	7.7775	1	H1-1b
	LL3.5X3.5X5X3			15					24.1568		12.4182	7.9402	1	H1-1b
	LL3.5X3.5X5X3			15					24.1568		12.4182	7.9402	1	H1-1b
	LL3.5X3.5X5X3			15	0.001	0.7413			24.1568		12.4182	7.9402	1	H1-1b
	LL3.5X3.5X5X3		0.7415						24.1568		12.4182	7.7775	1	H1-1b*
						0.7413			24.1568				1	H1-1b*
	LL3.5X3.5X5X3		0.7415 0.7415		0.0024	_			24.1568		12.4182	7.7775	1	H1-1b*
	LL3.5X3.5X5X3								24.1568		12.4182	7.7775	1	
	LL3.5X3.5X5X3		0.7415	6							12.4182	7.9402 7.9402	1	H1-1b H1-1b
	LL3.5X3.5X5X3 LL3.5X3.5X5X3		0 0.7415		0.0005	0			24.1568 24.1568		12.4182		1	H1-1b*
					0.0008	_					12.4182	7.7775	•	H1-1b*
	LL3.5X3.5X5X3		0.7415						24.1568		12.4182	7.9402	1	
	LL3.5X3.5X5X3		0.7415		0.0032	0 7445			24.1568		12.4182	7.7775	1	H1-1b
	LL3.5X3.5X5X3	0.019	0 0.7415	6					24.1568		12.4182	7.7775	1	H1-1b
	LL3.5X3.5X5X3		0.7415		0.0007	0 7/15			24.1568		12.4182	7.9402	1	H1-1b* H1-1b*
	LL3.5X3.5X5X3		0.7415						24.1568		12.4182	7.7775	1	
	LL3.5X3.5X5X3		0.7415	6					24.1568		12.4182	7.9402	1	H1-1b
	LL3.5X3.5X5X3	0.0138	0 7445	0	0.0004					136.08	12.4182	7.9402	1	H1-1b
	LL3.5X3.5X5X3		0.7415		0.0019	0 7/15			24.1568		12.4182	7.7775		H1-1b*
	LL3.5X3.5X5X3		0.7415						24.1568		12.4182	7.7775		H1-1b*
	LL3.5X3.5X5X3		0.7415		0.0008				24.1568		12.4182	7.7775		H1-1b*
	LL3.5X3.5X5X3		0.7415						24.1568		12.4182	7.9402	1	H1-1b
	LL3.5X3.5X5X3		0.7415						24.1568		12.4182	7.9402	1	H1-1b
	LL3.5X3.5X5X3		0.7415		0.0013	0 7445			24.1568		12.4182	7.9402	1	H1-1b
	LL3.5X3.5X5X3		0.7415						24.1568		12.4182	7.9402	1	H1-1b
	LL3.5X3.5X5X3			16	0.0028	0			24.1568		12.4182	7.9402	1	H1-1b
	LL3.5X3.5X5X3			16					24.1568		12.4182	7.9402	1	H1-1b
	LL3.5X3.5X5X3			16	0.0009	0			24.1568		12.4182	7.9402	1	H1-1b
114 M121	LL3.5X3.5X5X3	0.0109		15	0.0011				24.1568		12.4182	7.9402	_ 1	H1-1b
	LL3.5X3.5X5X3			15					24.1568		12.4182	7.9402	1	H1-1b
116 M123	LL3.5X3.5X5X3	0.0104	0.7415	20	0.0026	0	Z	12	24.1568	136.08	12.4182	7.7775	1	H1-1b



Job Number : 14519479_C3_03 Model Name : 370624 - Mankes Silo 12/7/2023 9:55:15 AM

Checked By : _____

	H100 10111 (000			-		011100111									
Member	· Shape	Code Check			Shear Check	Loc[ft]	Dir	LC	;ph	ni*Pnc [k]phi*Pnt [k]phi*Mn y-y [k-ft]phi*Mn z-z [k-ft]	Cb	Eqn
117 M124	LL3.5X3.5X5X3			20	0.0019	0.7415	z	16	2	4.1568	136.08	12.4182	7.7775	1	H1-1b
118 M125	LL3.5X3.5X5X3	0.0108	0.7415	16	0.0005	0.7415	z	15	2	4.1568	136.08	12.4182	7.9402	1	H1-1b
119 M126	LL3.5X3.5X5X3	0.0104	0	16	0.0005	0	z	11	2	4.1568	136.08	12.4182	7.9402	1	H1-1b
	LL3.5X3.5X5X3		0	16	0.0006	0				4.1568	136.08	12.4182	7.9402	1	H1-1b
	LL3.5X3.5X5X3		0.7415		0.0007	0.7415					136.08	12.4182	7.7775	1	H1-1b
	LL3.5X3.5X5X3		0	4	0.0032	0				4.1568	136.08	12.4182	7.7775	1	H1-1b
	LL3.5X3.5X5X3			11	0.0033	0.7415	7	16	2	4 1568	136.08	12.4182	7.7775	1	H1-1b
	LL3.5X3.5X5X3		0.7415		0.0007	0				24.1568	136.08	12.4182	7.9402	1	H1-1b
	LL3.5X3.5X5X3		0.7415		0.0006	0.7415					136.08	12.4182	7.9402	1	H1-1b
	LL3.5X3.5X5X3		0.7415		0.0005					24.1568	136.08	12.4182	7.9402	1	H1-1b
	LL3.5X3.5X5X3		0.7410	15	0.0004	0.7410		_	_	4.1568	136.08	12.4182	7.9402	1	H1-1b
	LL3.5X3.5X5X3	0.0103	0.7415		0.0018	0				24.1568	136.08	12.4182	7.7775	1	H1-1b
	LL3.5X3.5X5X3			19	0.0025	0.7415					136.08	12.4182	7.7775	1	H1-1b
	LL3.5X3.5X5X3		0.7415		0.0023	0.7413				24.1568	136.08	12.4182	7.7773	1	H1-1b
			0.7415			0.7415							7.9402	-	H1-1b
	LL3.5X3.5X5X3		0.7415		0.001					24.1568 24.1568	136.08	12.4182		<u>1</u> 1	
	LL3.5X3.5X5X3				0.001	0					136.08	12.4182	7.9402		H1-1b
	LL3.5X3.5X5X3		0 7445	16	0.0012	0	z			4.1568	136.08	12.4182	7.9402	1_	H1-1b
	LL3.5X3.5X5X3		0.7415		0.003	0				4.1568	136.08	12.4182	7.7775	1	H1-1b
	LL3.5X3.5X5X3		0 7445	12	0.0029	0 7445				4.1568	136.08	12.4182	7.7775	1_	H1-1b
	LL3.5X3.5X5X3		0.7415		0.0011	0.7415					136.08	12.4182	7.9402	1	H1-1b
	LL3.5X3.5X5X3		0	16	0.0009					4.1568		12.4182	7.9402	1_	H1-1b
	LL3.5X3.5X5X3		0	16	0.001	0				4.1568	136.08	12.4182	7.9402	1_	H1-1b
	LL3.5X3.5X5X3			15	0.0009	0.7415					136.08	12.4182	7.9402	1_	H1-1b
	LL3.5X3.5X5X3		0.7415		0.0024	0				4.1568	136.08	12.4182	7.7775	1_	H1-1b
	LL3.5X3.5X5X3		0.7415		0.0017	0.7415	Z	5	2	<u>24.1568</u>		12.4182	7.9402	1_	H1-1b
	LL3.5X3.5X5X3		0	15	0.0007	0.7415					136.08	12.4182	7.9402	1_	H1-1b
	LL3.5X3.5X5X3			15	0.0007	0				4.1568	136.08	12.4182	7.9402	1_	H1-1b
	LL3.5X3.5X5X3		0	16	0.0008	0				4.1568	136.08	12.4182	7.9402	1_	H1-1b
145 M152	LL3.5X3.5X5X3	0.0084	0.7415	7	0.0008	0.7415					136.08	12.4182	7.9402	1_	H1-1b*
146 M153	LL3.5X3.5X5X3		0.7415		0.0031	0				4.1568	136.08	12.4182	7.7775	1	H1-1b
147 M154	LL3.5X3.5X5X3	0.0167	0.7415	5	0.0036	0.7415	z	5	2	4.1568	136.08	12.4182	7.7775	1_	H1-1b
148 M155	LL3.5X3.5X5X3	0.0145	0.7415	7	0.0012	0	z	3	2	4.1568	136.08	12.4182	7.9402	1	H1-1b*
149 M156	LL3.5X3.5X5X3	0.0154	0.7415	7	0.0012	0.7415	z	5	2	4.1568	136.08	12.4182	7.7775	1	H1-1b*
	LL3.5X3.5X5X3		0.7415		0.001	0.7415					136.08	12.4182	7.7775	1	H1-1b*
	LL3.5X3.5X5X3		0.7415	7	0.0007	0				4.1568	136.08	12.4182	7.7775	1	H1-1b*
	LL3.5X3.5X5X3		0.7415		0.0017	0				4.1568	136.08	12.4182	7.7775	1	H1-1b
153 M160	L3X3X4		5.3422		0.0044	0		12		6.0783	46.656	1.6881		1.180	9 H2-1
154 M161	L3X3X4	0.0611	5.639		0.0044	11.278	_	-	-		46.656	1.6881			7 H2-1
155 M162	L3X3X4	0.0467	5.4016		0.0044	11.278					46.656	1.6881			8 H2-1
156 M163	L4X4X4	_	14.7224	_	0.0062	14.7224	_	_	_	8.5644	62.532	3.1376	4.7106	1.5	H2-1
157 M164	L4X4X4		14.7224		0.0063	0	У			8.5644	62.532	3.1376	4.7106	1.5	H2-1
158 M165			14.7224		0.0061	0					62.532	3.1376	4.7106		H2-1
	LL3.5X3.5X5X3		0.7415		0.0033	0	7	12	2	4 1568	136.08	12.4182	7.9402	1.0	H1-1b
	LL3.5X3.5X5X3			5	0.0006	0.7415						12.4182	7.9402	1	H1-1b
161 M169	LL3.5X3.5X5X3	0.0103	0.5815		0.0008	0.7413				4.1568		12.4182	7.7775	1	H1-1b
	LL3.5X3.5X5X3		0.7415		0.0009					24.1568		12.4182	7.7775	1	H1-1b
	LL3.5X3.5X5X3		0.7415		0.0009	0.7415						12.4182	7.7775	1	H1-1b
	LL3.5X3.5X5X3		0.7415		0.0075	0.7415				24.1568 24.1568		12.4182	7.7775	1	H1-1b
	LL3.5X3.5X5X3			11		0.7415								1	
			0.2303		0.0064							12.4182	7.7775		H1-1b
	LL3.5X3.5X5X3				0.0016	0 7415				4.1568		12.4182	7.7775	1	H1-1b
	LL3.5X3.5X5X3	0.0148		11	0.0007	0.7415						12.4182	7.7775	1_	H1-1b
108 M175	LL3.5X3.5X5X3	0.0115	0.4761		0.0008	0.7415						12.4182	7.7775	1	H1-1b
	LL3.5X3.5X5X3		0.5737		0.0006	0.7415						12.4182	7.9402	1_	H1-1b
	LL3.5X3.5X5X3		0.7415		0.0034	0.7415						12.4182	7.9402	1	H1-1b
[171] M178	LL3.5X3.5X5X3	0.0165	0.7415	6	0.003	0	Z	12	2	4.1568	136.08	12.4182	7.9402	1	H1-1b



Job Number : 14519479_C3_03 Model Name : 370624 - Mankes Silo 12/7/2023 9:55:15 AM

Checked By : _____

Envelope Aide Terri (ede	,		<u> </u>	otoo, oouo	0110011				.a.ca,					
Member Shape	Code Check	Loc[ft]	LC	Shear Check	Loc[ft]	Dir	LC	phi*	Pnc [k]	phi*Pnt [k]phi*Mn y-y [k-ft]	phi*Mn z-z [k-ft]	Cb	Eqn
172 M179 LL3.5X3.5X5X3	0.0161	0.2186	6	0.0004	0	z	12	24.	.1568	136.08	12.4182	7.9402	1	H1-1b
173 M180 LL3.5X3.5X5X3		0	6	0.0004	0.7415					136.08	12.4182	7.9402	1	H1-1b
174 M181 LL3.5X3.5X5X3		0.7415			0.7415					_	12.4182	7.7775	1	H1-1b*
175 M182 LL3.5X3.5X5X3		0.7415			0.7415					136.08	12.4182	7.7775	1	H1-1b
176 M183 LL3.5X3.5X5X3		0.6323			0.7415					136.08	12.4182	7.7775	1	H1-1b
177 M184 LL3.5X3.5X5X3		0.0976		0.0029	0.7413				.1568	136.08	12.4182	7.7775	1	H1-1b
					0.7415					_	_	7.7775	1	_
178 M185 LL3.5X3.5X5X3		0 7445	6							136.08	12.4182		_	H1-1b
179 M186 LL3.5X3.5X5X3		0.7415		0.0007	0				.1568	136.08	12.4182	7.7775		H1-1b*
180 M187 LL3.5X3.5X5X3		0.7415		0.0004	0				.1568	136.08	12.4182	7.9402	1_	H1-1b
181 M188 LL3.5X3.5X5X3		0.4839			0.7415					136.08	12.4182	7.9402	1_	H1-1b
182 M189 LL3.5X3.5X5X3		0.7415			0.7415					136.08	12.4182	7.9402	1_	H1-1b
183 M190 LL3.5X3.5X5X3			16		0				.1568	136.08	12.4182	7.9402	1_	H1-1b
184 M191 LL3.5X3.5X5X3		0.1639			0.7415					136.08	12.4182	7.9402	1_	H1-1b
185 M192 LL3.5X3.5X5X3	0.0123	0.3473			0	z	11	_24.	.1568	136.08	12.4182	7.7775	1_	H1-1b
186 M193 LL3.5X3.5X5X3	0.0164	0.7415	11		0				.1568	136.08	12.4182	7.7775	1	H1-1b
187 M194 LL3.5X3.5X5X3	0.0217	0.6205	11	0.0016	0.7415	z	16	24.	.1568	136.08	12.4182	7.7775	1	H1-1b
188 M195 LL3.5X3.5X5X3	0.0467	0.7415	11	0.0083	0	z	11	24.	.1568	136.08	12.4182	7.7775	1	H1-1b
189 M196 LL3.5X3.5X5X3	0.0407	0	12	0.0069	0.7415	z	15	24.	.1568	136.08	12.4182	7.7775	1	H1-1b
190 M197 LL3.5X3.5X5X3		0.1327			0				.1568	136.08	12.4182	7.7775	1	H1-1b
191 M198 LL3.5X3.5X5X3		0.1717			0.7415					136.08	12.4182	7.7775	1	H1-1b
192 M199 LL3.5X3.5X5X3		0.1132			0.7415						12.4182	7.7775	1	H1-1b
193 M200 LL3.5X3.5X5X3		0.1102	11		0.7415					136.08	12.4182	7.7775	1	H1-1b
194 M201 LL3.5X3.5X5X3		0.7415	_		0.7415	_				136.08	12.4182	7.9402	1	H1-1b
195 M202 LL3.5X3.5X5X3			16		0.7410				.1568	136.08	12.4182	7.9402	1	H1-1b
196 M203 LL3.5X3.5X5X3		0.5659			0				.1568	136.08	12.4182	7.9402	1	H1-1b
197 M204 LL3.5X3.5X5X3			16		0.7415					136.08	12.4182	7.9402	1	H1-1b
198 M205 LL3.5X3.5X5X3			16		0.7415					136.08	12.4182	7.9402	1	H1-1b
199 M206 LL3.5X3.5X5X3		0.3513			0.7415								1	H1-1b
										136.08	12.4182	7.7775		
200 M207 LL3.5X3.5X5X3		0.7415			0.7415					136.08	12.4182	7.7775	1_	H1-1b
201 M208 LL3.5X3.5X5X3			11	0.003	0				.1568	136.08	12.4182	7.7775	_1_	H1-1b
202 M209 LL3.5X3.5X5X3		0	19		0	Z			.1568	136.08	12.4182	7.7775	_ 1_	H1-1b
203 M210 LL3.5X3.5X5X3		0.7415			0				.1568	136.08	12.4182	7.9402	1	H1-1b
204 M211 LL3.5X3.5X5X3		0.7415			0				.1568	136.08	12.4182	7.9402	1_	H1-1b
205 M212 LL3.5X3.5X5X3		0.1873			0.7415					136.08	12.4182	7.9402	1_	H1-1b
206 M213 LL3.5X3.5X5X3		0.7415			0.7415					136.08	12.4182	7.9402	1	H1-1b
207 M214 LL3.5X3.5X5X3			15		0	Z	11	_24.	.1568	136.08	12.4182	7.9402	1_	H1-1b
208 M215 LL3.5X3.5X5X3	0.0137	0.1483			0.7415	У	16	24.	.1568	136.08	12.4182	7.9402	1_	H1-1b
209 M216 LL3.5X3.5X5X3		0.7415	12	0.0008	0	z	11	24.	.1568	136.08	12.4182	7.7775	1_	H1-1b
210 M217 LL3.5X3.5X5X3	0.0153	0.7415			0	z			.1568	136.08	12.4182	7.7775	1_	H1-1b
211 M218 LL3.5X3.5X5X3	0.0194	0.1444		0.0016	0.7415	z	16	24	.1568	136.08	12.4182	7.7775	1	H1-1b
212 M219 LL3.5X3.5X5X3	0.0382	0.7415		0.0073	0				.1568	136.08	12.4182	7.7775	1	H1-1b
213 M220 LL3.5X3.5X5X3		0	11	0.007	0.7415							7.7775	1	H1-1b
214 M221 LL3.5X3.5X5X3		0.6635	12	0.0016						136.08	12.4182	7.7775	1	
215 M222 LL3.5X3.5X5X3			12		0.7415						12.4182	7.7775	1	H1-1b
216 M223 LL3.5X3.5X5X3		0	12	0.0008						136.08	12.4182	7.7775	1	H1-1b
217 M224 LL3.5X3.5X5X3		0.7298			0.7415						12.4182	7.9402	1	H1-1b
218 M225 LL3.5X3.5X5X3		0.7415			0.7415						12.4182	7.9402	1	H1-1b
219 M226 LL3.5X3.5X5X3			15		0				.1568		12.4182	7.9402	1	H1-1b
220 M227 LL3.5X3.5X5X3		0.6674							.1568		12.4182	7.9402	1	H1-1b
221 M228 LL3.5X3.5X5X3			15		0.7415						12.4182	7.9402	1	H1-1b
222 M229 LL3.5X3.5X5X3			15		0.7415						12.4182	7.9402	1	H1-1b
223 M230 LL3.5X3.5X5X3		0.7415			0.7415						12.4182	7.9402	1	H1-1b*
224 M231 LL3.5X3.5X5X3		0.7415			0.7415						12.4182	7.7775	1	H1-1b
225 M232 LL3.5X3.5X5X3			5	0.0027	0.7413				.1568		12.4182	7.7775	1	H1-1b
		0.7415			0				.1568				1	H1-1b*
226 M233 LL3.5X3.5X5X3	0.0121	0.7415	1	0.0007	U	 	3	2 4.	. 1008	136.08	12.4182	7.9402		מו-ודון



Job Number : 14519479_C3_03 Model Name : 370624 - Mankes Silo 12/7/2023 9:55:15 AM

Checked By : _____

	01												٠.	_
Member												phi*Mn z-z [k-ft]	Cb	Eqn
	LL3.5X3.5X5X3		0.7415		0.0009	0			24.1568	136.08	12.4182	7.7775	1_	H1-1b*
	LL3.5X3.5X5X3		0.7415		0.0007	0			24.1568	136.08	12.4182	7.9402	1	H1-1b
	LL3.5X3.5X5X3		0.7415		0.0005				24.1568	136.08	12.4182	7.9402	1_	H1-1b
	LL3.5X3.5X5X3	0.022	0	5	0.0029				24.1568	136.08	12.4182	7.9402	1_	H1-1b
	HSS5.563X0.375			12	0.0062	2.5417			232.5009			32.775	1	H1-1b
	HSS5.563X0.375		4.6667		0.0028	4.6667			222.5987			32.775	1	H1-1b
	HSS5.563X0.375		3.0417		0.0051	3.0417			230.6639			32.775	1_	H1-1b
	HSS5.563X0.375			18	0.0071	2.5417			232.5009			32.775	1	H1-1b
235 M242	HSS5.563X0.375	0.0092	4.6667	11	0.0029	4.6667		15	222.5987	236.808	32.775	32.775	1	H1-1b
	HSS5.563X0.375		3.0417		0.0057	3.0417			230.6639			32.775	1	H1-1b
	HSS5.563X0.375			15	0.0059	2.5417		16	232.5009	236.808	32.775	32.775	1	H1-1b
	HSS5.563X0.375		4.6667		0.0028	4.6667			222.5987			32.775	1	H1-1b
239 M246	HSS5.563X0.375	0.0188	3.0417		0.0047	3.0417		12	230.6639	236.808	32.775	32.775	_ 1	H1-1b
240 M247	L4X3X4	0.0756		12	0.0083	0	У	12	49.9861	54.756	1.795	4.8054	1.5	H2-1
241 M248	L4X3X4	0.0774		13	0.0084	0	У	11	49.9861	54.756	1.795	4.8054	1.5	H2-1
242 M249	L4X3X4	0.0754		12	0.0081	0	У	12	49.9861	54.756	1.795	4.8054	1.5	H2-1
243 M250	L4X3X4	0.0592		12	0.0078	0	У	12	49.9861	54.756	1.795	4.8054	1.5	H2-1
244 M251	L4X3X4	0.0606		13	0.0081	0	У	11	49.9861	54.756	1.795	4.8054	1.5	H2-1
245 M252	L4X3X4	0.058		12	0.008	0			49.9861	54.756	1.795	4.8054	1.5	H2-1
246 M253	L4X3X4	0.2335	4.5	16	0.0069	4.5	У	16	37.163	54.756	1.8437	4.1629	1.207	H2-1
247 M254	L4X3X4	0.2315	0	16	0.0065	0	У	12	37.163	54.756	1.8437	4.1606	1.2044	4 H2-1
248 M255	L4X3X4	0.0778		12	0.007	1.278	У	16	49.5064	54.756	1.795	4.8054	1.5	H2-1
249 M256	L4X3X4	0.2311		15	0.0069	4.5	У	15	37.163	54.756	1.8437	4.1541	1.1972	H2-1
250 M257	L4X3X4	0.2285		15	0.0065	0	У	11	37.163	54.756	1.8437	4.1466	1.1889	H2-1
251 M258	L4X3X4	0.0774		13	0.0071	1.278	У	15	49.5064	54.756	1.795	4.8054	1.5	H2-1
252 M259	L4X3X4	0.234		16	0.0069	4.5	У	16	37.163	54.756	1.8437	4.1716	1.2167	7 H2-1
253 M260	L4X3X4	0.232	0	16	0.0065	0	У	12	37.163	54.756	1.8437	4.1434	1.1854	4 H2-1
254 M261	L4X3X4	0.078	0	12	0.0073	1.278	У	16	49.5064	54.756	1.795	4.8054	1.5	H2-1
255 M262	L4X3X4	0.1061	4.5	16	0.0045	4.5	y	16	37.163	54.756	1.8437	4.007	1.0496	H2-1
256 M263	L4X3X4	0.1062		16	0.0042	0	У	12	37.163	54.756	1.8437	3.9975	1.041	H2-1
257 M264	L4X3X4	0.0594		12	0.0063	1.278	У	16	49.5064	54.756	1.795	4.8054	1.5	H2-1
258 M265	L4X3X4	0.1046		15	0.0045	4.5	У	15	37.163	54.756	1.8437	4.023	1.0643	H2-1
259 M266	L4X3X4	0.1048		15	0.0042	0		11		54.756	1.8437	3.9998		1 H2-1
260 M267	L4X3X4	0.0593		13	0.0063	1.278			49.5064	54.756	1.795	4.8054	1.5	H2-1
261 M268	L4X3X4	0.1059		16	0.0045	4.5	У	16	37.163	54.756	1.8437	4.0142	1.0562	2 H2-1
262 M269	L4X3X4	0.1059		16	0.0042	0	У	12	37.163	54.756	1.8437	3.9971	1.0407	7 H2-1
263 M270	L4X3X4	0.0609		12	0.0063	1.278	У	16	49.5064	54.756	1.795	4.8054	1.5	H2-1
264 M271	L3X3X4	0.0051		12	0.0059				28.8004	46.656	1.6881	3.2793	1	H2-1
265 M272	L3X3X4	0.0065		12	0.0002				28.8004	46.656	1.6881	3.2793	1	H2-1
266 M273	L3X3X4	0.0038		12	0.0057				28.8004	46.656	1.6881	3.2793	1	H2-1
267 M274	L3X3X4	0.0054		11	0.0059				28.8004	46.656	1.6881	3.2793	1_	H2-1
268 M275	L3X3X4	0.0064		11					28.8004		1.6881	3.2793	1	H2-1
269 M276	L3X3X4	0.0037	0	11	0.0057				28.8004		1.6881	3.2793	1	H2-1
270 M277	L3X3X4	0.0052		12		4.6667	У	16	28.8004	46.656	1.6881	3.2793	1	H2-1
271 M278	L3X3X4	0.0064		12					28.8004		1.6881	3.2793	1	H2-1
272 M279	L3X3X4	0.0039		11					28.8004	46.656	1.6881	3.2793	1	H2-1
273 M280	L3X3X4	0.022	3.2073						18.3903	46.656	1.6881			1 H2-1
274 M281	L3X3X4	0.0196	3.2756						18.3903	46.656	1.6881			4 H2-1
275 M282	L3X3X4	0.0225	3.2073						18.3903	46.656	1.6881	3.1178	1.1364	4 H2-1
276 M283	L3X3X4	0.0194	3.2756						18.3903		1.6881			1 H2-1
277 M284	L3X3X4	0.0222	3.2073						18.3903		1.6881			1 H2-1
278 M285	L3X3X4		3.2756						18.3903		1.6881	3.1178	1.1364	1 H2-1
	LL3.5X3.5X5X3			12					103.1948		12.4182	7.5081	1	H1-1b
	LL3.5X3.5X5X3		6.5114						103.1948		12.4182	7.5081	1	H1-1b
281 M294	LL3.5X3.5X5X3	0.0118	6.5114	12	0.0015	6.5114	у	2	103.1948	136.08	12.4182	7.5081	1	H1-1b



Job Number : 14519479_C3_03 Model Name : 370624 - Mankes Silo 12/7/2023 9:55:15 AM

Checked By : _____

Envelope Aloc Totti (occ			<u> </u>	otoo, oouo	0110011				.u.cu,					
Member Shape	Code Check	Loc[ft]	LCS	Shear Check	Loc[ft]	Dir	LC	phi*l	Pnc [k]	phi*Pnt [k]phi*Mn y-y [k-ft]]phi*Mn z-z [k-ft]	Cb	Eqn
282 M295 LL3.5X3.5X5X3	0.0115	0	12	0.0059	0.7415	z	16	24.	1568	136.08	12.4182	7.7775	1	H1-1b
283 M296 LL3.5X3.5X5X3		0.7415	5	0.0008	0.7415					136.08	12.4182	6.7422	1	H1-1b
284 M297 LL3.5X3.5X5X3		0.7415		0.0006	0.7415					136.08	12.4182	7.9402	1	H1-1b
285 M298 LL3.5X3.5X5X3		0	5	0.0006	0				1568	136.08	12.4182	7.9402	1	H1-1b
286 M299 LL3.5X3.5X5X3			16	0.0009	0				1568	136.08	12.4182	7.9402	1	H1-1b
287 M300 LL3.5X3.5X5X3		0.7415		0.0072	0				1568	136.08	12.4182	7.9402	1	H1-1b
288 M301 LL3.5X3.5X5X3			11	0.0072	0.7415					136.08	12.4182	7.7775	1	H1-1b
289 M302 LL3.5X3.5X5X3		0.7415		0.0009	0.7415					136.08	12.4182	7.9402	1	H1-1b
290 M303 LL3.5X3.5X5X3		0.7415		0.0006	0.7415					136.08	12.4182	7.7775	1	H1-1b
291 M304 LL3.5X3.5X5X3		0	17	0.0006	0.7 110				1568	136.08	12.4182	7.7775	1	H1-1b
292 M305 LL3.5X3.5X5X3			17	0.0008	0				1568	136.08	12.4182	7.7775	1	H1-1b
293 M306 LL3.5X3.5X5X3		0.7415		0.0058	0				1568	136.08	12.4182	7.7775	1	H1-1b
294 M307 LL3.5X3.5X5X3		0.7413	4	0.0059	0.7415					136.08	12.4182	7.9402	1	H1-1b
295 M308 LL3.5X3.5X5X3		0.7415		0.0005	0.7415					136.08	12.4182	7.9402	1	H1-1b
296 M309 LL3.5X3.5X5X3		0.7415		0.0003	0.7415					136.08	12.4182	7.7775	1	H1-1b
		0.7413	5	0.0004	0.7413				1568	136.08	12.4182		1	H1-1b
			17		0					_		7.7775	1	H1-1b
298 M311 LL3.5X3.5X5X3				0.0008					1568	136.08	12.4182	7.7775	•	
299 M312 LL3.5X3.5X5X3		0.7415	4	0.0061	0.7415				1568	136.08	12.4182	7.9402	<u>1</u> 1	H1-1b
300 M313 LL3.5X3.5X5X3				0.0053						136.08	12.4182	7.9402	•	
301 M314 LL3.5X3.5X5X3		0.7415		0.0007	0.7415					136.08	12.4182	7.7775	11	H1-1b
302 M315 LL3.5X3.5X5X3		0.7415		0.0005	0.7415					136.08	12.4182	7.7775	1_	H1-1b
303 M316 LL3.5X3.5X5X3		0	6	0.0004	0				1568	136.08	12.4182	7.9402		H1-1b
304 M317 LL3.5X3.5X5X3		0	6	0.0006	0				1568	136.08	12.4182	7.9402	_ 1_	H1-1b
305 M318 LL3.5X3.5X5X3	_	0.7415		0.0062	0				1568	136.08	12.4182	7.9402		H1-1b
306 M319 LL3.5X3.5X5X3			11	0.0065	0.7415					136.08	12.4182	7.7775	1	H1-1b
307 M320 LL3.5X3.5X5X3		0.7415		0.0008	0.7415					136.08	12.4182	7.7775	1_	H1-1b
308 M321 LL3.5X3.5X5X3		0.7415		0.0007	0.7415					136.08	12.4182	7.7775	1_	H1-1b
309 M322 LL3.5X3.5X5X3		0	3	0.0006	0				1568	136.08	12.4182	7.7775	1_	H1-1b
310 M323 LL3.5X3.5X5X3		0	15	0.0009	0				1568	136.08	12.4182	7.9402	1_	H1-1b
311 M324 LL3.5X3.5X5X3	0.0173	0.7415		0.0079	0				1568	136.08	12.4182	7.7775	1_	H1-1b
312 M325 LL3.5X3.5X5X3	0.0159		12	0.0079	0.7415					136.08	12.4182	7.7775	1_	H1-1b
313 M326 LL3.5X3.5X5X3	0.0064	0.7415		0.001	0.7415	z	12	24.	1568	136.08	12.4182	7.9402	1_	H1-1b
314 M327 LL3.5X3.5X5X3	0.0061	0.7415		0.0006	0.7415					136.08	12.4182	7.7775	1_	H1-1b
315 M328 LL3.5X3.5X5X3	0.0071	0	3	0.0007	0	z	12	24.	1568	136.08	12.4182	7.7775	1_	H1-1b
316 M329 LL3.5X3.5X5X3	0.0066	0	3	0.0008	0	z	16	24.	1568	136.08	12.4182	7.7775	1	H1-1b
317 M330 LL3.5X3.5X5X3	0.0114	0.7415	11	0.0058	0	z	12	24.	1568	136.08	12.4182	7.7775	1	H1-1b
318 M331 LL3.5X3.5X5X3	0.0117	0	14	0.0063	0.7415	z	16	24.	1568	136.08	12.4182	7.9402	1	H1-1b
319 M332 LL3.5X3.5X5X3		0.7415	16	0.0005	0.7415	z	18	24.	1568	136.08	12.4182	7.9402	1	H1-1b
320 M333 LL3.5X3.5X5X3		0.7415		0.0004	0.7415					136.08	12.4182	7.7775	1	H1-1b
321 M334 LL3.5X3.5X5X3		0	3	0.0005	0				1568	136.08	12.4182	7.7775	1	H1-1b
322 M335 LL3.5X3.5X5X3			16	0.0008	0				1568	136.08	12.4182	7.7775	1	H1-1b
323 M336 LL3.5X3.5X5X3		0.7415		0.0057	0					136.08		7.9402	1	H1-1b
324 M337 LL3.5X3.5X5X3			4							136.08	12.4182	7.9402	1	
325 M338 LL3.5X3.5X5X3	0.0059	0.7415	3	0.0008	0.7415	7	12	24	1568	136.08	12.4182	7.7775	1	H1-1b
326 M339 LL3.5X3.5X5X3		0.7415								136.08	12.4182	7.7775	1	H1-1b
327 M340 LL3.5X3.5X5X3			4	0.0004	0.7410				1568		12.4182	7.7775	1	H1-1b
328 M341 LL3.5X3.5X5X3			15	0.0005					1568		12.4182	7.9402	1	H1-1b
329 M342 LL3.5X3.5X5X3	0.0095	0.7415		0.0058	0				1568		12.4182	7.9402		H1-1b
330 M343 LL3.5X3.5X5X3	0.0093		12		0.7415						12.4182	7.7775	1	H1-1b
331 M344 LL3.5X3.5X5X3		0.7415		0.0009	0.7415						12.4182	7.7775	1	H1-1b
332 M345 LL3.5X3.5X5X3		0.7415		0.0009	0.7415						12.4182	7.7775	1	H1-1b
333 M346 LL3.5X3.5X5X3			4	0.0007	0.7413				1568		12.4182	7.7775	1	H1-1b
334 M347 LL3.5X3.5X5X3			4	0.0009					1568		12.4182	7.7775	1	H1-1b
335 M348 LL3.5X3.5X5X3		0.7415		0.0009					1568		12.4182	7.7775	1	H1-1b
336 M349 LL3.5X3.5X5X3			12	0.0074	0.7415	4	16	24.	1560	136.00	12.4182	7.7775	1	H1-1b
330 W348 LL3.3A3.3A3A3	0.0152	U	12	0.0074	0.7415	4	10	Z4.	1000	136.08	12.4102	1.1115		מו-וח



Job Number : 14519479_C3_03 Model Name : 370624 - Mankes Silo 12/7/2023 9:55:15 AM

Checked By : _____

	Member	Shape	Code Chec	k Loc[ft]	LCS	hear Check	Loc[ft]	Dir	LC	phi*Pnc [k]	phi*Pnt [k]	phi*Mn y-y [k-ft]	phi*Mn z-z [k-ft]	Cb	Eqn
337	M350	LL3.5X3.5X5X3	0.0062	0.7415	16	0.001	0.7415	z	11	24.1568	136.08	12.4182	7.9402	1	H1-1b
338	M351	LL3.5X3.5X5X3	0.0064	0.7415	4	0.0006	0.7415	Z	15	24.1568	136.08	12.4182	7.7775	1	H1-1b
339	M352	LL3.5X3.5X5X3	0.0067	0	4	0.0006	0	Z	11	24.1568	136.08	12.4182	7.7775	1	H1-1b
340	M353	LL3.5X3.5X5X3	0.0063	0	5	8000.0	0	z	17	24.1568	136.08	12.4182	7.7775	1	H1-1b
341	M354	LL3.5X3.5X5X3	0.0107	0.7415	12	0.0052	0	z	12	24.1568	136.08	12.4182	7.7775	1	H1-1b
342	M355	LL3.5X3.5X5X3	0.0115	0	5	0.006	0.7415	z	15	24.1568	136.08	12.4182	7.9402	1_	H1-1b
343	M356	LL3.5X3.5X5X3	0.0059	0.7415	15	0.0006	0.7415	z	5	24.1568	136.08	12.4182	7.9402	1	H1-1b
344	M357	LL3.5X3.5X5X3	0.0063	0.7415	4	0.0004	0.7415	z	16	24.1568	136.08	12.4182	7.7775	1_	H1-1b
345	M358	LL3.5X3.5X5X3	0.0063	0	15	0.0005	0	z	11	24.1568	136.08	12.4182	7.7775	1_	H1-1b
346	M359	LL3.5X3.5X5X3	0.0055	0	16	0.0008	0	z	18	24.1568	136.08	12.4182	7.7775	1	H1-1b
347	M360	LL3.5X3.5X5X3	0.0088	0.7415	3	0.0054	0	z	12	24.1568	136.08	12.4182	7.9402	1_	H1-1b
348	M361	LL3.5X3.5X5X3	0.0089	0	6	0.0052	0.7415	z	16	24.1568	136.08	12.4182	7.9402	1_	H1-1b
349	M362	LL3.5X3.5X5X3	0.0057	0.7415	16	0.0007	0.7415	z	13	24.1568	136.08	12.4182	7.7775	1_	H1-1b
350	M363	LL3.5X3.5X5X3	0.0064	0.7415	16	0.0005	0.7415	z	16	24.1568	136.08	12.4182	7.7775	1_	H1-1b
351	M364	LL3.5X3.5X5X3	0.007	0.7415	5	0.0004	0	z	11	24.1568	136.08	12.4182	7.9402	1	H1-1b
352	M365	LL3.5X3.5X5X3	0.0077	0	5	0.0005	0	z	14	24.1568	136.08	12.4182	7.9402	1_	H1-1b
353	M366	LL3.5X3.5X5X3	0.0135	0.7415	3	0.0059	0	z	12	24.1568	136.08	12.4182	7.9402	1_	H1-1b
354	M370	HSS5X0.500	0.0033	5.455	4	0.0004	5.455		4	191.6502	208.53	25.2	25.2	1_	H1-1b
355	M371	LL3.5X3.5X5X3	0.0233	0	2	0.002	10.0999	У	2	69.9445	136.08	12.4182	7.2616	1_	H1-1b
356	M372	LL3.5X3.5X5X3	0.0224	10.0999	2	0.002	10.0999	у	2	69.9445	136.08	12.4182	7.2616	1	H1-1b
357	M373	LL3.5X3.5X5X3	0.023	0	2	0.002	10.0999	У	2	69.9445	136.08	12.4182	7.2616	1_	H1-1b
358	M374	LL3.5X3.5X5X3	0.0222	0	2	0.002	0	у	2	69.9445	136.08	12.4182	7.2616	1_	H1-1b
359	M375	LL3.5X3.5X5X3	0.023	0	2	0.002	10.0999	У	2	69.9445	136.08	12.4182	7.2616	1_	H1-1b
360	M376	LL3.5X3.5X5X3	0.0219	0	2	0.002	10.0999	У	2	69.9445	136.08	12.4182	7.2616	1	H1-1b
361	M377	LL3.5X3.5X5X3	0.023	0	2	0.002	10.0999	У	2	69.9445	136.08	12.4182	7.2616	1	H1-1b
362	M378	LL3.5X3.5X5X3	0.0222	0	2	0.002	0	У	2	69.9445	136.08	12.4182	7.2616	1_	H1-1b
363	M379	LL3.5X3.5X5X3	0.023	0	2	0.002	10.0999	У	2	69.9445	136.08	12.4182	7.2616	1_	H1-1b
364	M380	LL3.5X3.5X5X3	0.0223	0	2	0.002	10.0999	у	2	69.9445	136.08	12.4182	7.2616	1_	H1-1b
365	M381	LL3.5X3.5X5X3	0.0233	0	2	0.002	10.0999	у	2	69.9445	136.08	12.4182	7.2616	1_	H1-1b
366	M382	LL3.5X3.5X5X3	0.0225	0	2	0.002	0	у	2	69.9445	136.08	12.4182	7.2616	1	H1-1b

Site Name: Mankes Silo, CT
Site Number: 370624
Engineer: Matthew.Reeves

Design Loads (Factored) - Analysis per TIA-222-H Standards

Total Compression:	371.9	k
Total Shear:	22.1	k
Overturning Moment:	958.3	k-ft

Depth to Base of Foundation (I + t - h):	3.75 0.00	
	0.00	Сı
Diameter of Pier (d):		π
Length of Pier (I):	0.00	ft
Height of Pier above Ground (h):	0.00	ft
Outside Diameter of Ring (d _f):	19.00	ft
Width of Ring (W):	0.00	ft
Inside Diameter of Ring (d _o):	0.00	ft
Thickness of Pad (t):	3.75	ft

Depth Below Ground Surface to Water Table:	99.00	ft
Unit Weight of Concrete:	150.0	pcf
Unit Weight of Soil Above Water Table:	100.0	pcf
Unit Weight of Water:	62.4	pcf
Unit Weight of Soil Below Water Table:	37.6	pcf

Ultimate Coefficient of Shear Friction:	0.30	
Ultimate Compressive Bearing Pressure:	10000	psf
Ultimate Passive Pressure on Pad Face:	0.0	psf
Φ _{Soil} and Concrete Weight:	0.9	
φ _{Soil} :	0.75	

Overturning Moment Usage

Design OTM: 1041.3 k-ft
OTM Resistance: 4013.1 k-ft
Design OTM / OTM Resistance: 0.26 Result: OK

Soil Bearing Pressure Usage

Factored Net Bearing Pressure:

Factored Nominal Bearing Pressure:

7500 psf

Net Bearing Pressure/Factored Nominal Bearing Pressure:

0.41 Result: OK

Sliding Factor of Safety

Ultimate Friction Resistance: 159.4 k
Ultimate Passive Pressure Resistance: 0.0 k
Total Factored Sliding Resistance: 119.6 k
Sliding Design / Sliding Resistance: 0.19 Result: OK

EXHIBIT 4





Colliers Engineering & Design, Architecture, Landscaping Architecture, Surveying, CT, P.C. 1055 Washington Boulevard Stamford, CT 06901 203.324.0800 peter.albano@collierseng.com

Antenna Mount Analysis Report with Hardware Upgrades and PMI Requirements

Mount Analysis

SMART Tool Project #: 10208095 Colliers Engineering & Design Project #: 23777239

November 14, 2023

Site Information Site ID: 5000383173-VZW / CHESHIRE NORTH CT

- ATC Stealth Silo

Site Name: CHESHIRE NORTH CT - ATC Stealth Silo

Carrier Name: Verizon Wireless

Address: 1338 Highland Ave SNET Pole #46-S

Cheshire, Connecticut 06410

New Haven County

Latitude: 41.536889° Longitude: -72.893297°

Structure Information Tower Type: 76-Ft Concealment Silo

Mount Type: 12.00-Ft Concealment Mount

FUZE ID # 17123857

Analysis Results

Concealment Mount: 26.9% Pass w/ Hardware Upgrades*

* Antennas and equipment to be installed in compliance with PMI Requirements of this mount analysis.

***Contractor PMI Requirements:

Included at the end of this MA report
Available & Submitted via portal at https://pmi.vzwsmart.com
For additional questions and support, please reach out to:
pmisupport@colliersengineering.com

Report Prepared By: Frank Centone



Executive Summary:

The objective of this report is to determine the capacity of the antenna support mount at the subject facility for the final wireless telecommunications configuration, per the applicable codes and standards. Any modification listed under Sources of Information was assumed completed and was included in this analysis.

This analysis is inclusive of the mount structure only and does not address the structural capacity of the supporting structure. This mounting frame was not analyzed as an anchor attachment point for fall protection. All climbing activities are required to have a fall protection plan completed by a competent person.

Sources of Information:

Document Type	Remarks
Mount Mapping Report	Onsight Services, Site ID: 5000383173, dated November 2, 2023
Filter Add Scope	Provided by Verizon Wireless

Analysis Criteria:

Codes and Standards: ANSI/TIA-222-H

2022 Connecticut State Building Code (CSBC), Effective October 1, 2022

Wind Parameters: Basic Wind Speed (Ultimate 3-sec. Gust), V_{ULT}: 120 mph

Ice Wind Speed (3-sec. Gust): 50 mph Design Ice Thickness: 1.00 in Risk Category: Ш С Exposure Category: Topographic Category: 1 Topographic Feature Considered: N/A Topographic Method: N/A Ground Elevation Factor, Ke: 0.992

Seismic Parameters: S_S: 0.200 g

 S_1 : 0.055 g

Maintenance Parameters: Wind Speed (3-sec. Gust): N/A

Maintenance Load, Lv: N/A
Maintenance Load, Lm: N/A

Analysis Software: RISA-3D (V17)

Final Loading Configuration:

The following equipment has been considered for the analysis of the mounts:

Mount Elevation (ft)	Equipment Elevation (ft)	Quantity	Manufacturer	Model	Status
			Raycap	RRFDC-3315-PF-48*	
			Samsung	RFV01U-D1A*	Retained
71.00	73.00	3	Samsung	RFV01U-D2A*	Retained
		12	Commscope	SBNHH-1D65B	
		2	KAelus	KA-6030	Added

^{*} Equipment is flush mounted directly to the concealment silo frame. They are not mounted on concealment mounts and are not included in this mount analysis.

The recent mount mapping reported existing OVP units. It is acceptable to install up to any three (3) of the OVP model numbers listed below as required at any location other than the mount face without affecting the structural capacity of the mount. If OVP units are installed on the mount face, a mount re-analysis may be required unless replacing an existing OVP.

Model Number	Ports	AKA
DB-B1-6C-12AB-0Z	6	OVP-6
RVZDC-6627-PF-48	12	OVP-12

Standard Conditions:

- All engineering services are performed on the basis that the information provided to Colliers Engineering & Design and used in this analysis is current and correct. The existing equipment loading has been applied at locations determined from the supplied documentation. Any deviation from the loading locations specified in this report shall be communicated to Colliers Engineering & Design to verify deviation will not adversely impact the analysis.
- 2. Mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer's specifications.

Obvious safety and structural issues/deficiencies noticed at the time of the mount mapping and reported in the Mount Mapping Report are assumed to be corrected and documented as part of the PMI process and are not considered in the mount analysis.

The mount analysis and the mount mapping are not a condition assessment of the mount. Proper maintenance and condition assessments are still required post analysis.

- 3. For mount analyses completed from other data sources (including new replacement mounts) and not specifically mapped in accordance with the NSTD-446 Standard, the mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer's specifications.
- 4. 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.
- 5. The mount was checked up to, and including, the bolts that fasten it to the mount collar/attachment and threaded rod connections in collar members if applicable. Local deformation and interaction between the mount collar/attachment and the supporting tower structure are outside the scope of this analysis.

- 6. All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. Colliers Engineering & Design is not responsible for the conclusion, opinions, and recommendations made by others based on the information supplied.
- 7. Structural Steel Grades have been assumed as follows, if applicable, unless otherwise noted in this analysis:

Channel, Solid Round, Angle, Plate
 HSS (Rectangular)
 Pipe
 Threaded Rod
 Bolts
 ASTM A36 (Gr. 36)
 ASTM 500 (Gr. B-46)
 ASTM A53 (Gr. B-35)
 F1554 (Gr. 36)
 ASTM A325

Discrepancies between in-field conditions and the assumptions listed above may render this analysis invalid unless explicitly approved by Colliers Engineering & Design.

Analysis Results:

Component	Utilization %	Pass/Fail
Mount Pipe	2.4%	Pass
Face Horizontal	26.9%	Pass
Mount Connection	1.9%	Pass

Structure Rating – (Controlling Utilization of all Components)	26.9%*
--	--------

^{*} Results valid after hardware upgrades noted in the PMI Requirements are installed.

Mount Steel (EPA)a per ANSI/TIA-222-H Section 2.6.11.2:

Ice	Mount Pipe	s Excluded	Mount Pipes Included			
Thickness (In)	Front (EPA)a (Sq. Ft.)	Side (EPA)a (Sq. Ft.)	Front (EPA)a (Sq. Ft.)	Side (EPA)a (Sq. Ft.)		
0	8.5	1.2	14.1	6.7		
0.5	10.5	1.5	18.4	9.4		
1	12.2	1.7	22.5	11.9		

Notes:

- (EPA)a values listed above may be used in the absence of more precise information
- (EPA)a values in the table above include 1 sector(s).
- Ka factors included in (EPA)a calculations

Requirements:

The existing mounts will be **SUFFICIENT** for the final loading configuration shown in attachment 2 upon the completion of the requirements listed below.

Contractor to install any missing bolts between mount face angle and silo framing angle with 3/4" dia. A325N bolt, with a total of two bolts at both top and bottom.

Contractor shall install the proposed filter units on new Site Pro 1 Dual Swivel Mount Kit (Part #: RRUDSM or EOR approved equivalent) in the location shown in the placement diagrams.

ANSI/ASSP rigging plan review services compliant with the requirements of ANSI/TIA 322 are available for a Construction Class IV site or other, if required. Separate review fees will apply.

Attachments:

- 1. Contractor Required Post Installation Inspection (PMI) Report Deliverables
- 2. Antenna Placement Diagrams
- 3. Mount Photos
- 4. Mount Mapping Report (for reference only)
- 5. Analysis Calculations

Mount Desktop – Post Modification Inspection (PMI) Report Requirements

Documents & Photos Required from Contractor – Passing Mount Analysis

Passing Mount Analysis requires a PMI due to a modification in loading.

Electronic pdf version of this can be downloaded at https://pmi.vzwsmart.com.

For additional questions and support, please reach out to pmisupport@colliersengineering.com

MDG #: 5000383173 SMART Project #: 10208095 Fuze Project ID: 17123857

<u>Purpose</u> – to provide SMART Tool structural vendor the proper documentation in order to complete the required Mount Desktop review of the Post Modification Inspection Report.

- Contractor is responsible for making certain the photos provided as noted below provide confirmation that the installation was completed in accordance with this Passing Mount Analysis.
- Contractor shall relay any data that can impact the performance of the mount, this includes safety issues.

Base Requirements:

- If installation will cause damage to the structure, the climbing facility, or safety climb if present or any installed system, SMART Tool vendor to be notified prior to install. Any special photos outside of the standard requirements will be indicated on the drawings.
- Provide "as built mount drawings" showing contractor's name, contact information, preparer's signature, and date. Any deviations from the drawings (Proposed modification) shall be shown.
 NOTE: If loading is different than what is conveyed in the passing mount analysis (MA) contact the SMART Tool vendor immediately.
- Each photo should be time and date stamped
- Photos should be high resolution.
- Contractor shall ensure that the safety climb wire rope is supported and not adversely
 impacted by the install of the modification components. This may involve the install of wire
 rope guides, or other items to protect the wire rope. If there is conflict, contact the SMART Tool
 engineer for recommendations.
- The PMI can be accessed at the following portal: https://pmi.vzwsmart.com

Photo Requirements:

- Photos taken at ground level
 - Photo of Gate Signs showing the tower owner, site name, and number.
 - Overall tower structure after installation.
 - Photos of the mount after installation; if the mounts are at different rad elevations, pictures must be provided for all elevations that equipment was installed.
- Photos taken at Mount Elevation
 - Photos showing the safety climb wire rope above and below the mount prior to installation.
 - Photos showing the climbing facility and safety climb if present.

- o Photos showing each individual sector after installation. Each entire sector shall be in one photo to show the interconnection of members.
 - These photos shall also certify that the placement and geometry of the equipment on the mount is as depicted in the antenna placement diagram in this form.
- Photos that show the model number of each antenna and piece of equipment installed per sector.

Antenna & equipment placement and Geometry Confirmation:

 The contractor shall certify that the antenna & equipment placement and geometry is in accordance with the sketch and table as included in the mount analysis and noted below.
\Box The contractor certifies that the photos support and the equipment on the mount is as depicted on the sketch and table included in this form and with the mount analysis provided.
OR
\Box The contractor notes that the equipment on the mount is not in accordance with the sketch and has noted the differences below and provided photo documentation of any alterations.
Special Instructions / Validation as required from the MA or any other information the contractor deems necessary to share that was identified:
<mark>Issue:</mark>
Contractor to install any missing bolts between mount face angle and silo framing angle with 3/4" dia. A325N bolt, with a total of two bolts at both top and bottom.
Contractor shall install the proposed filter units on new Site Pro 1 Dual Swivel Mount Kit (Part #: RRUDSM or EOR approved equivalent) in the location shown in the placement diagrams.
Response:
Special Instruction Confirmation:
\square The contractor has read and acknowledges the above special instructions.
\Box All hardware listed in the Special Instructions above (if applicable) has been properly installed, and the existing hardware was inspected.

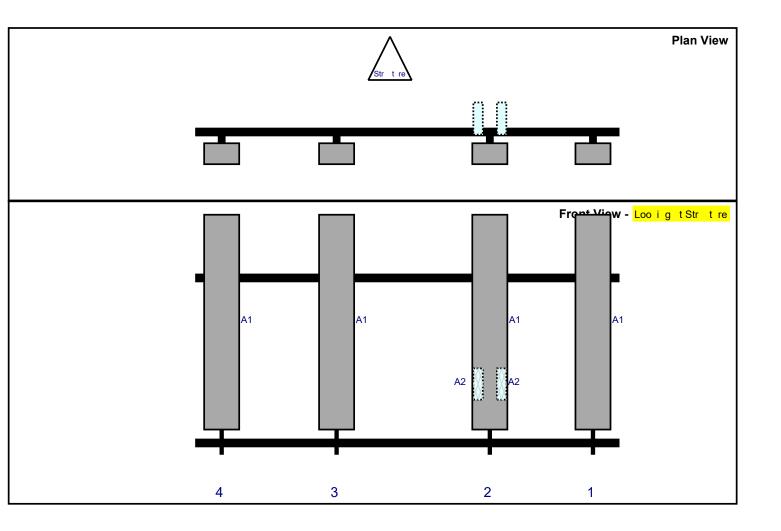
			the SMART Tool engineering vendor Special Instructions laterial certification folder is a packing list or invoice for these
			OR
		ilized was approved by a ed as part of the contract	a SMART Tool engineering vendor as an "equivalent" and this tor submission.
Comn	nents:		
<u>Contr</u>	actor certifies tha	t the climbing facility	/ safety climb was not damaged prior to starting work:
	□Yes □	No	
<u>Contr</u>	actor certifies no	new damage created o	during the current installation:
	□Yes □	No	
<u>Contr</u>	actor to certify the	e condition of the safe	ty climb and verify no damage when leaving the site:
	☐ Safety Climb i	n Good Condition	☐ Safety Climb Damaged
Certif	ying Individual:		
	Company: Employee Name: Contact Phone: Email: Date:		

Se tor: **A** 11/9/2023

Str t re Type: Ste Ith 10208095

Mo t Elev: 71.00 P ge: 1





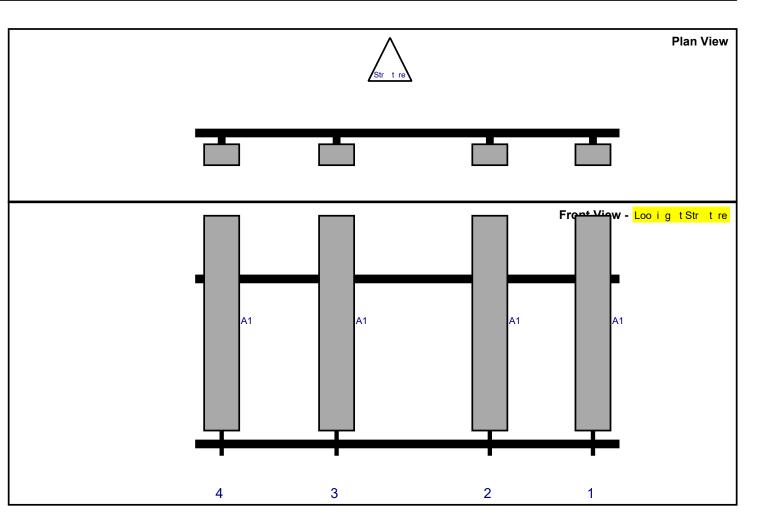
		Height	Width	H Dist	Pipe	Pipe	A t	C. A t	A t		
Re#	Model	(i)	(i)	Fr L.	#	Pos V	Pos	Fr T.	ΗО	St t s	V lid tio
A1	SBNHH-1D65B	72.9	11.9	135	1		Fro t	27	0	Ret i ed	11/02/2023
A1	SBNHH-1D65B	72.9	11.9	100	2		Fro t	27	0	Ret i ed	11/02/2023
A2	KA-6030	10.6	3.2	100	2		Behi d	48	4	Added	
A2	KA-6030	10.6	3.2	100	2		Behi d	48	-4	Added	
A1	SBNHH-1D65B	72.9	11.9	48	3		Fro t	27	0	Ret i ed	11/02/2023
A1	SBNHH-1D65B	72.9	11.9	9	4		Fro t	27	0	Ret i ed	11/02/2023

Se tor: **B** 11/9/2023

Str t re Type: Ste Ith 10208095

Mo t Elev: 71.00 P ge: 2





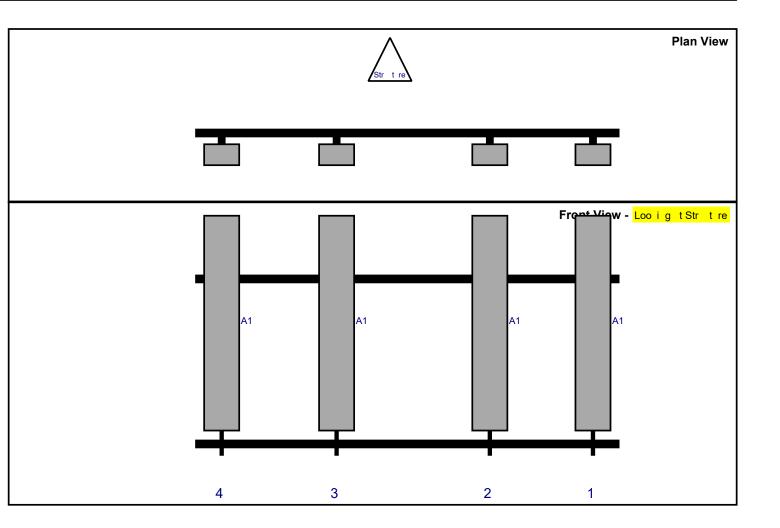
		Height	Width	H Dist	Pipe	Pipe	A t	C. A t	A t		
Re#	Model	(i)	(i)	Fr L.	#	Pos V	Pos	Fr T.	ΗО	St t s	V lid tio
A1	SBNHH-1D65B	72.9	11.9	135	1		Fro t	27	0	Ret i ed	11/02/2023
A1	SBNHH-1D65B	72.9	11.9	100	2		Fro t	27	0	Ret i ed	11/02/2023
A1	SBNHH-1D65B	72.9	11.9	48	3		Fro t	27	0	Ret i ed	11/02/2023
A1	SBNHH-1D65B	72.9	11.9	9	4		Fro t	27	0	Ret i ed	11/02/2023

Se tor: **C** 11/9/2023

Str t re Type: Ste Ith 10208095

Mo t Elev: 71.00 P ge: 3





		Height	Width	H Dist	Pipe	Pipe	A t	C. A t	A t		
Re#	Model	(i)	(i)	Fr L.	#	Pos V	Pos	Fr T.	ΗО	St t s	V lid tio
A1	SBNHH-1D65B	72.9	11.9	135	1		Fro t	27	0	Ret i ed	11/02/2023
A1	SBNHH-1D65B	72.9	11.9	100	2		Fro t	27	0	Ret i ed	11/02/2023
A1	SBNHH-1D65B	72.9	11.9	48	3		Fro t	27	0	Ret i ed	11/02/2023
A1	SBNHH-1D65B	72.9	11.9	9	4		Fro t	27	0	Ret i ed	11/02/2023

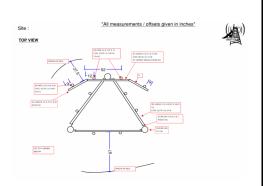






	Antenna Mount Mapping Form (PATEN	T PENDING)		FCC#
	Antenna Mount Mapping Form (FATEN	T I ENDING)		
Tower Owner:	ATC	Mapping Date:	11/2/	2023
Site Name:	CHESHIRE NORTH CT	Tower Type:	Otl	her
Site Number or ID:	5000383173	Tower Height (Ft.):	7	6
Mapping Contractor:	ONSIGHT SERVICES	Mount Elevation (Ft.):	7	1

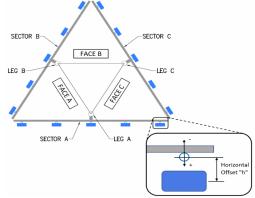
This antenna mapping form is the property of TES and under PATENT PENDING. The formation contained herein is considered confidential in nature and is to be used only for the specific customer it was intended for. Reproduction, transmission, publication, modification or disclosure by any method is prohibited except by express written permission of TES. All means and methods are the responsibility of the contractor and the work shall be compliant with ANSI/ASSE A 10.48, OSHA, FCC, FAA and other safety equirements that may apply. TES is not warrantying the usability of the safety climb as it must be assessed prior to each use in compliance with OSHA requirements



		Mount Pip	e Configurat	ion and G	eometries [Unit = Inches]		
Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "u"	Horizontal Offset "C1, C2, C3, etc."	Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "u"	Horizontal Offset "C1, C2, C3, etc."
A1	2.4 X 5/32 X 84	74.00	9.00	C1	2.4 X 5/32 X 84	74.00	9.00
A2	2.4 X 5/32 X 72	68.00	48.00	C2	2.4 X 5/32 X 72	68.00	48.00
A3	2.4 X 5/32 X 72	68.00	88.00	C3	2.4 X 5/32 X 72	68.00	88.00
A4	2.4 X 5/32 X 84	74.00	115.00	C4	2.4 X 5/32 X 84	74.00	115.00
A5				C5			
A6				C6			
B1	2.4 X 5/32 X 84	74.00	9.00	D1			
B2	2.4 X 5/32 X 72	68.00	48.00	D2			
В3	2.4 X 5/32 X 72	68.00	88.00	D3			
B4	2.4 X 5/32 X 84	74.00	115.00	D4			
B5				D5			
В6				D6			
	Distance from to	op of bottor	m support r	ail to lowe	est tip of ant./eqpt. of Carrier above. (N/A	if > 10 ft.):	
	Distance from to	p of botton	n support ra	il to highe	est tip of ant./eqpt. of Carrier below. (N/A	if > 10 ft.):	3

Please enter additional infomation or comments below.

Tower Face Width at Mount Elev. (ft.): Tower Leg Size or Pole Shaft Diameter at Mount Elev. (in.): 5.6

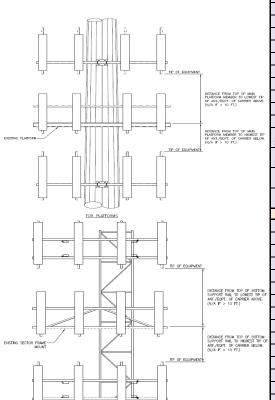


		Enter antenna model. If not labeled, enter "Unknown".						Mountin [Units are incl	Photos of antennas			
	Ants. Items	Antenna Models if Known	Width (in.)	Depth (in.)	Height (in.)	Coax Size and Qty	Antenna Center- line (Ft.)	Vertical Distances"b _{1a} , b _{2a} , b _{3a} , b _{1b} " (Inches)	Horiz. Offset "h" (Use "-" if Ant. is behind)	Antenna Azimuth (Degrees)	Photo Numbers	
	Sector A											
	Ant _{1a}	COMMSCOPE SBNHH	12.00	7.50	73.00			28.00	7.50	0.00	74	
	Ant _{1b}											
	Ant _{1c}											
	Ant _{2a}	COMMSCOPE SBNHH	12.00	7.50	73.00			22.00	8.00	0.00	74	
	Ant _{2b}											
)	Ant _{2c}											
	Ant _{3a}	COMMSCOPE SBNHH	12.00	7.50	73.00			22.00	8.00	0.00	76	
, †	Ant _{3b}											
1	Ant _{3c}											
_	Ant _{4a}	COMMSCOPE SBNHH	12.00	7.50	73.00			28.00	7.50	0.00	76	
7	Ant _{4b}											
	Ant _{4c}											
	Ant _{5a}											
	Ant _{5b}											
	Ant _{5c}											
	Ant on											
	Standoff											
	Ant on Standoff											
	Ant on	SAMSUNG RFV01U-D	15.75	12.00	15.50			16.00	8.50		72	
	Tower	SAIVISUNG REVUIU-D	13./3	12.00	15.50			10.00	6.50		12	
	Ant on Tower	SAMSUNG RFV01U-D	15.75	10.00	15.50			25.00	9.50		72	

100	Antio S	Antzo B	Antso 😝	Ant46	Antsa Antsa
p16	Antıı g	Antza 🚊	Ant3b ∉	Antab &	AIILOD
ple pre-	- p ₂	₹ <u>Q</u>	4	- 26	
<u>, </u>		<u>. </u>	<u> </u>		-11
<u>C1</u>	Antic	Ant2c	Ant3c	Ant4c	Antsc
	C2	_ 3			
		C4	-	_	
		C	5		
	Antenn	a Layout (Lo	oking Out Fr	om Tower)	

Mou	nt Azimuth (I	_	e)	Tower Leg Azimuth (Degree)					
for Each Sector				for Each Sector					
Sector A:	320.00	Deg	Leg A:	320.00	Deg				
Sector B:	80.00	Deg	Leg B:	80.00	Deg				
Sector C:	200.00	Deg	Leg C:	200.00	Deg				
Sector D:		Deg	Leg D:		Deg				
		Climb	ing Fac	ility Information					
Location:		Deg		N/A					
Cl: I:	Corrosio	n Typ	e:	N/A					
Climbing Facility	Acc	ess:		N/A					
Condition:				N/A					





						Sector B				
	Ant _{1a}	COMMSCOPE SBNHH	12.00	7.50	73.00		28.00	7.50	120.00	66
	Ant _{1b}									
	Ant _{1c}									
	Ant _{2a}	COMMSCOPE SBNHH	12.00	7.50	73.00		22.00	8.00	120.00	67
	Ant _{2b}									
	Ant _{2c}									
	Ant _{3a}	COMMSCOPE SBNHH	12.00	7.50	73.00		22.00	8.00	120.00	67
	Ant _{3b}									
	Ant _{3c}									
	Ant _{4a}	COMMSCOPE SBNHH	12.00	7.50	73.00		28.00	7.50	120.00	67
	Ant _{4b}	CONTINUE OF E SERVITO	12.00	7.50	75.00		20.00	7.50	120.00	07
	Ant _{4c}									
	Ant _{5a}									
	Ant _{5b}									
	Ant _{5c}									
	Ant on									
	Standoff									
	Ant on	RAYCAP RRFDC-3315-	PF-48				27.50	7.50		64
	Standoff						=1.00			
	Ant on Tower	SAMSUNG RFV01U-D	15.75	12.00	15.50		16.00	8.50		64
	Ant on	CANACHING DEVOAL:	15.75	10.00	15.50		25.00	0.50		6.1
	Tower	SAMSUNG RFV01U-D	15./5	10.00	15.50		25.00	9.50		64
						Sector C				
	Ant _{1a}	COMMSCOPE SBNHH	12.00	7.50	73.00		28.00	7.50	240.00	70
	Ant _{1b}									
	Ant _{1c}									
	Ant _{2a}	COMMSCOPE SBNHH	12.00	7.50	73.00		22.00	8.00	240.00	70
	Ant _{2b}									
	Ant _{2c}									
	Ant _{3a}	COMMSCOPE SBNHH	12.00	7.50	73.00		22.00	8.00	240.00	71
	Ant _{3b}									
	Ant _{3c}									
	Ant _{4a}	COMMSCOPE SBNHH	12.00	7.50	73.00		28.00	7.50	240.00	71
	Ant _{4b}									
	Ant _{4c}									
TIP OVE.	Ant _{5a}									
	Ant _{5b}									
	Ant _{5c}									
TIP OW.	Ant on									
	Standoff Ant on									
	Standoff	RAYCAP RRFDC-3315-	PF-48				27.50	7.50		69
	Ant on	SAMSUNG RFV01U-D	15 75	12.00	15.50		16.00	8.50		69
	Tower	SAIVISONG REVOID-D	13.73	12.00	13.30		10.00	8.30		09
	Ant on Tower	SAMSUNG RFV01U-D	15.75	10.00	15.50		25.00	9.50		69
	Tower					Sector D				
	Ant _{1a}					50000. 2				
	Ant _{1b}									
	Ant _{1c}									
	Ant _{2a}									
	Ant _{2b}									
	Ant _{2c}									
FOM P OF VE.	Ant _{3a}									
	Ant _{3b}									
	Ant _{3c}									
гом	Ant _{4a}									
TOM IP OF OW.	Ant _{4b}									
	Ant _{4c}									
	Ant _{5a}									
	Ant _{5b}									
	Ant _{5c}									
	Ant on									
	Standoff									
	Ant on									
	Standoff									
	Ant on Tower									
	Ant on									
	Tower									

	Observed Safety and Structural Issues During the Mount Mapping	
Issue #	Description of Issue	Photo #
1	85FT MANLIFT REQUIRED	
2		
3		
4		
5		
6		
7		
8		

Mapping Notes

- 1. Please report any visible structural or safety issues observed on the antenna mounts (Damaged members, loose connections, tilting mounts, safety climb issues, etc.)
- 2. If the thickness of the existing pipes or tubing can't be obtained from a general tool (such as Caliper), please use an ultrasonic measurement tool (thickness gauge) to measure the thickness.
- 3. Please create all required detail sketches of the mounts and insert them into the "Sketches" tab.
- 4. Please measure and enter the bolt sizes and types under the Members Box in the spreadsheet of the mount type.
- 5. Take and label the photos of the tower, mounts, connections, antennas and all measurements. Minimum 50 photos are required.
- 6. Please measure and report the size and length of all existing antenna mounting pipes.
- 7. Please measure and report the antenna information for all sectors.
- 8. Don't delete or rearrange any sheet or contents of any sheet from this mapping form.

Standard Conditions

1. Obvious safety and structural issues/deficiencies noticed at the time of the mount mapping are to be reported in this mapping. However, this mount mapping is not a condition assessment of the mount.

V4.1 Updated on 12-17-2021

SMART Tool[©] Vendor

This antenna mapping form is the property of TES and under PATENT PENDING. The formation contained herein is considered confidential in nature and is to be used only for the specific customer it was intended for. Reproduction, transmission, publication, modification, or disclosure by any method is prohibited except by express written permission of TES. All means and methods are the responsibility of the contractor and the work shall be compliant with ANSI/ASSE A 10.48, OSHA, FCC, FAA and other safety requirements that may apply. TES is not warrantying the usability of the safety climb as it must be assessed prior to each use in compliance with OSHA requirements.

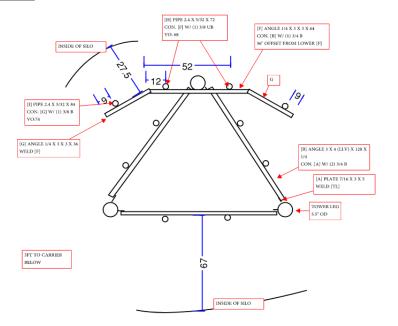
Please Insert Sketches of the Antenna Mount

All measurements / offsets given in inches

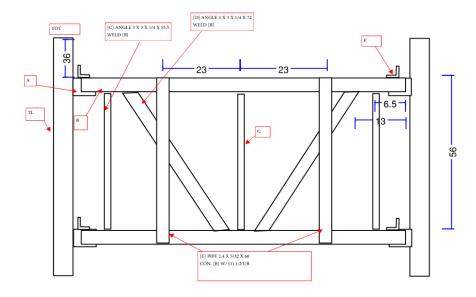
Site:

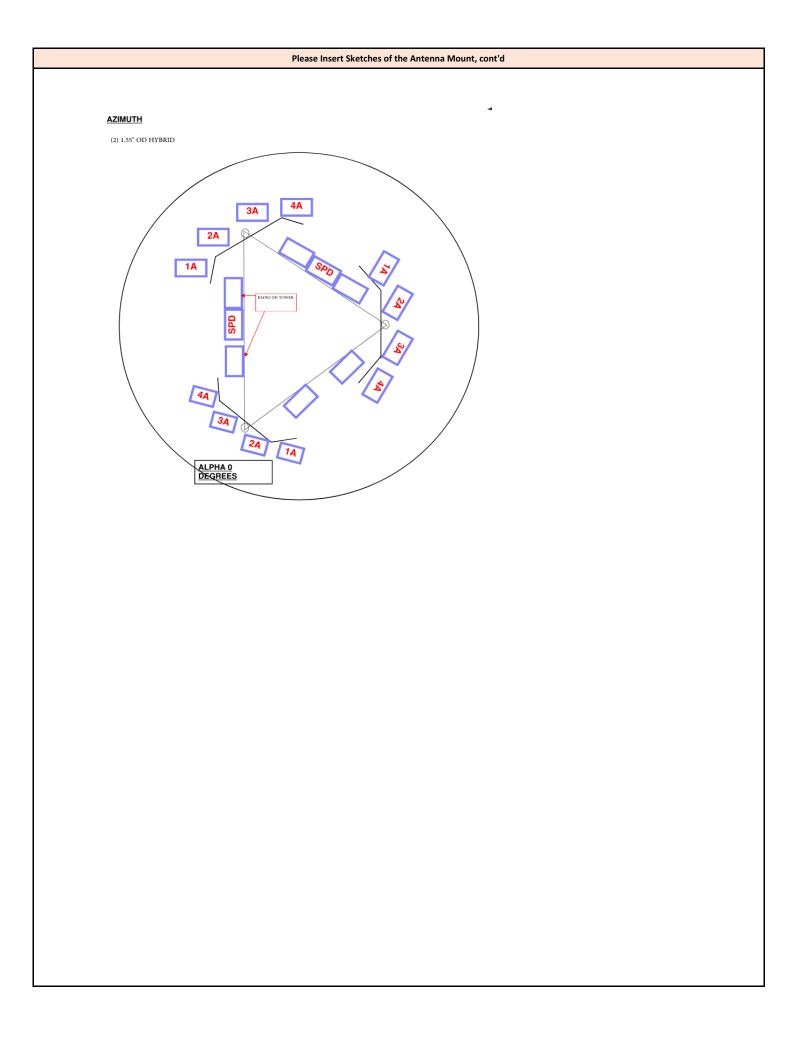
TOP VIEW

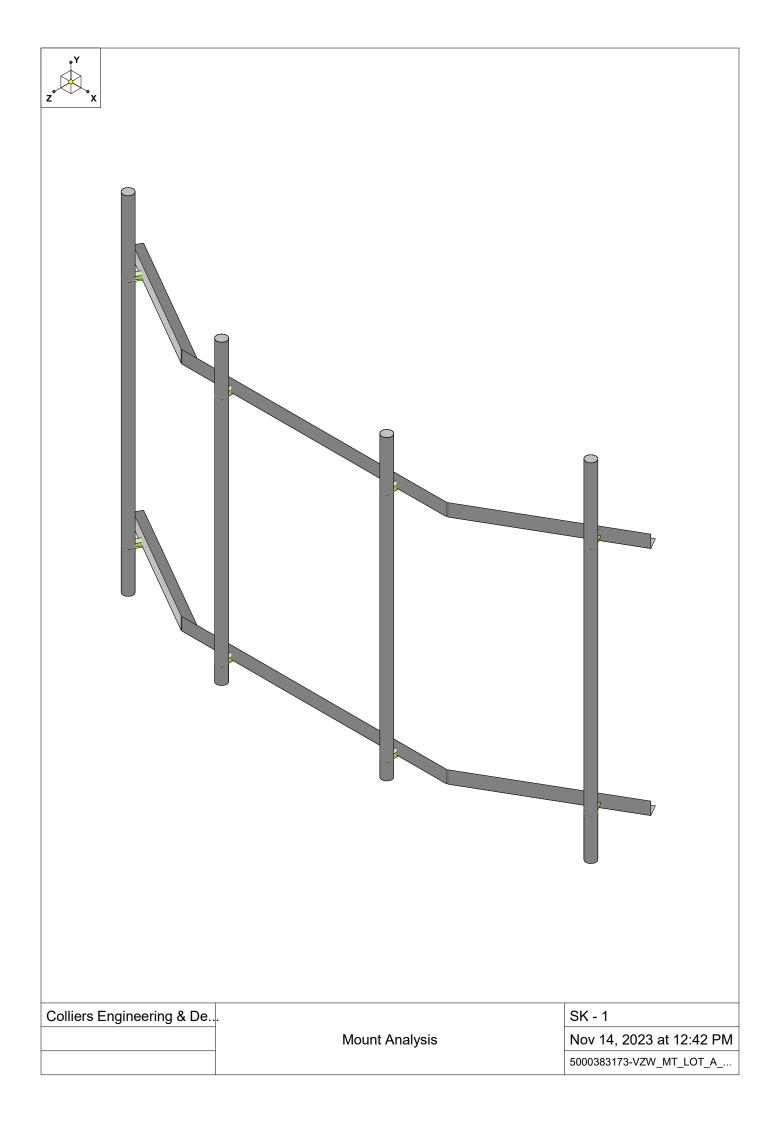


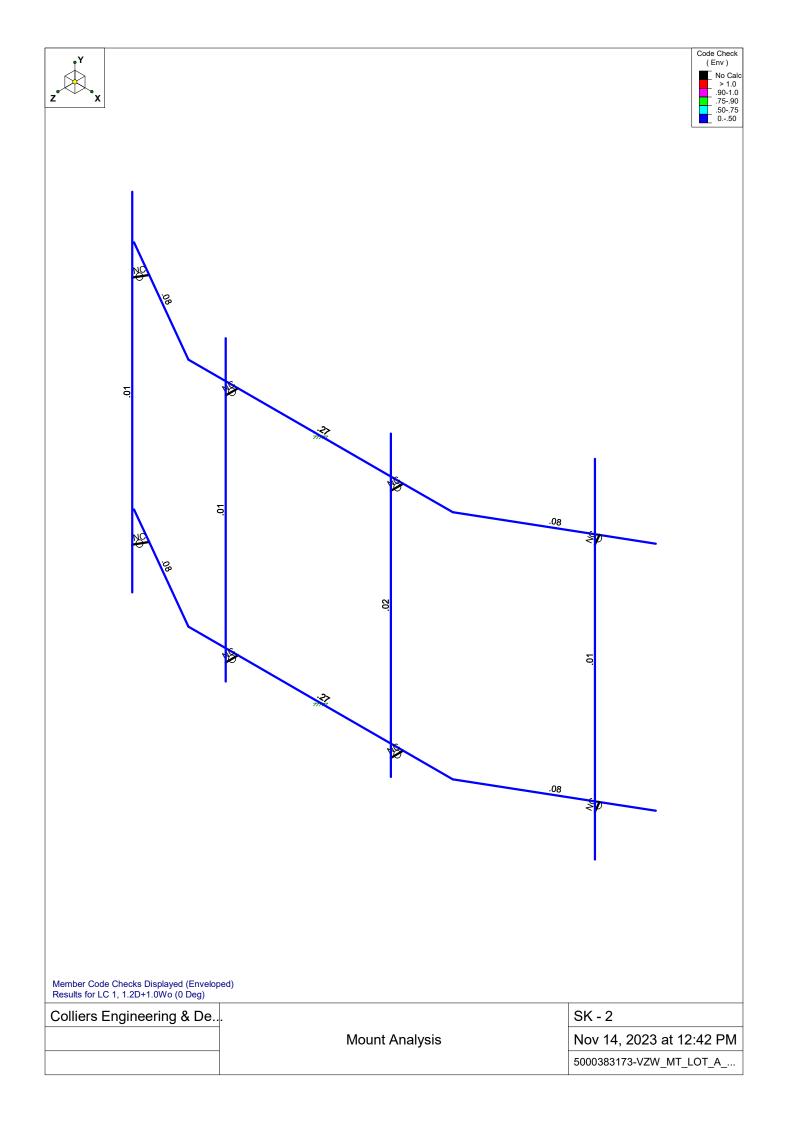


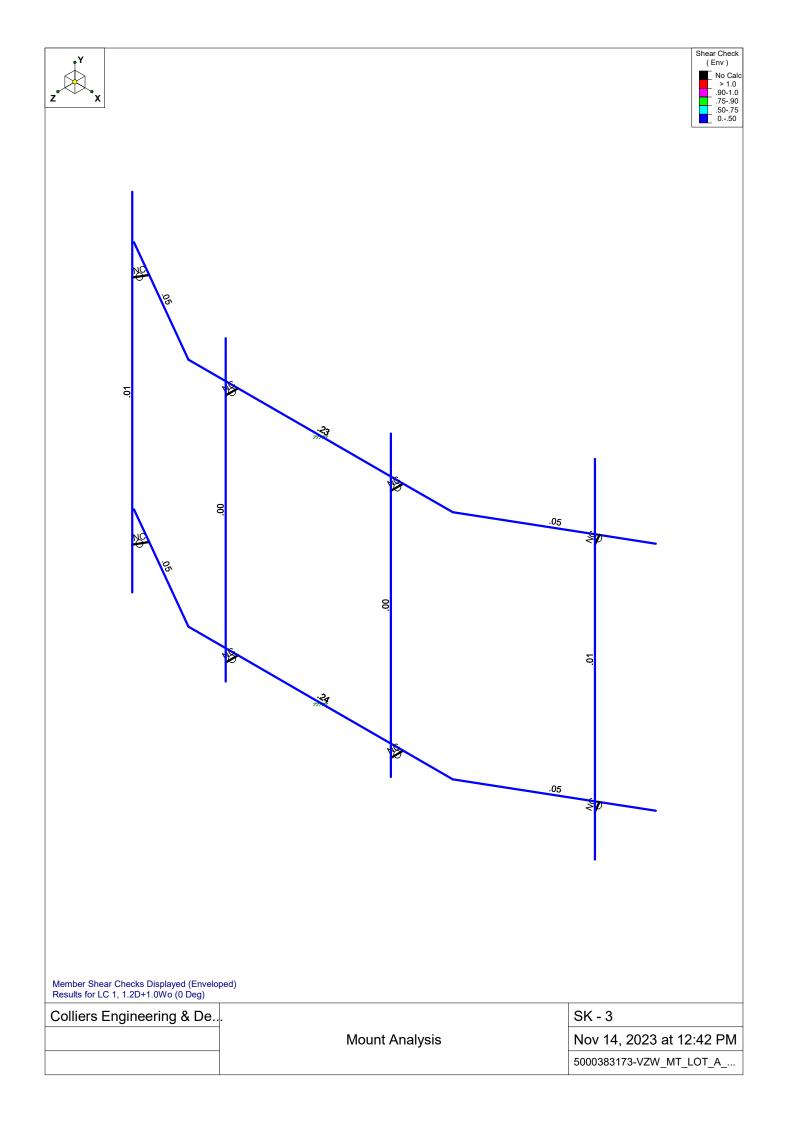
FRONT VIEW (tower face)













: Colliers Engineering & Design

: Mount Analysis

Nov 14, 2023 1:09 PM Checked By:_

Basic Load Cases

	c Load Cases									
	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distribut	.Area(Me	.Surface(
1	Antenna D	None			_		36		·	·
2	Antenna Di	None								
3	Antenna Wo (0 Deg)	None					36			
4	Antenna Wo (30 Deg)	None					36			
5	Antenna Wo (60 Deg)	None					36			
6	Antenna Wo (90 Deg)	None					36			
7	Antenna Wo (120 Deg)	None					36			
8	Antenna Wo (150 Deg)	None					36			
9	Antenna Wo (180 Deg)	None					36			
10	Antenna Wo (210 Deg)	None					36			
11	Antenna Wo (240 Deg)	None					36			
12	Antenna Wo (270 Deg)	None					36			
13	Antenna Wo (300 Deg)	None					36			
14	Antenna Wo (330 Deg)	None					36			
15	Antenna Wi (0 Deg)	None					30			
16	Antenna Wi (30 Deg)	None								
17	Antenna Wi (60 Deg)	None								
18	Antenna Wi (90 Deg)	None								
19	Antenna Wi (120 Deg)	None								
20	Antenna Wi (150 Deg)	None								
21	Antenna Wi (180 Deg)	None								
22	Antenna Wi (210 Deg)	None								
23	Antenna Wi (240 Deg)	None								
24	Antenna Wi (270 Deg)	None								
25	Antenna Wi (300 Deg)	None								
26	Antenna Wi (330 Deg)	None								
27	Antenna Wm (0 Deg)	None					36			
28	Antenna Wm (30 Deg)	None					36			
29	Antenna Wm (60 Deg)	None					36			
30	Antenna Wm (90 Deg)	None					36			
31	Antenna Wm (120 Deg)	None					36			
32	Antenna Wm (150 Deg)	None					36			
33	Antenna Wm (180 Deg)	None					36			
34	Antenna Wm (210 Deg)	None					36			
35	Antenna Wm (240 Deg)	None					36			
36	Antenna Wm (270 Deg)	None					36			
37	Antenna Wm (300 Deg)	None					36			
38	Antenna Wm (330 Deg)	None					36			
39	Structure D	None		-1			00			
40	Structure Di	None								
41	Structure Wo (0 Deg)	None						20		
42	Structure Wo (0 Deg)	None						20		
43	Structure Wo (60 Deg)	None						20		
44	Structure Wo (90 Deg)	None						20		
45	Structure Wo (120 Deg)	None						20		
46	Structure Wo (150 Deg)	None						20		
47	Structure Wo (180 Deg)	None						20		
48	Structure Wo (210 Deg)	None						20		
49	Structure Wo (240 Deg)	None						20		
50	Structure Wo (270 Deg)	None						20		
51	Structure Wo (300 Deg)	None						20		
52	Structure Wo (330 Deg)	None						20		
53	Structure Wi (0 Deg)	None						20		
54	Structure Wi (30 Deg)	None						20		
55	Structure Wi (60 Deg)	None						20		
56	Structure Wi (90 Deg)	None						20		
57	Structure Wi (120 Deg)	None						20		
58	Structure Wi (150 Deg)	None						20		
- 30										

: Colliers Engineering & Design

Nov 14, 2023 1:09 PM Checked By:_

: Mount Analysis

Basic Load Cases (Continued)

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distribut	.Area(Me	.Surface(
59	Structure Wi (180 Deg)	None	,	,	_			20	,	,
60	Structure Wi (210 Deg)	None						20		
61	Structure Wi (240 Deg)	None						20		
62	Structure Wi (270 Deg)	None						20		
63	Structure Wi (300 Deg)	None						20		
64	Structure Wi (330 Deg)	None						20		
65	Structure Wm (0 Deg)	None						20		
66	Structure Wm (30 Deg)	None						20		
67	Structure Wm (60 Deg)	None						20		
68	Structure Wm (90 Deg)	None						20		
69	Structure Wm (120 Deg)	None						20		
70	Structure Wm (150 Deg)	None						20		
71	Structure Wm (180 Deg)	None						20		
72	Structure Wm (210 Deg)	None						20		
73	Structure Wm (240 Deg)	None						20		
74	Structure Wm (270 Deg)	None						20		
75	Structure Wm (300 Deg)	None						20		
76	Structure Wm (330 Deg)	None						20		
77	Lm1	None					1			
78	Lm2	None					1			
79	Lv1	None					1			
80	Lv2	None					1			
81	Antenna Ev	None					36			
82	Antenna Eh (0 Deg)	None					24			
83	Antenna Eh (90 Deg)	None					24			
84	Structure Ev	ELY		042						
85	Structure Eh (0 Deg)	ELZ			106					
86	Structure Eh (90 Deg)	ELX	.106							

Load Combinations

	Description	So	.P	S	BLC	Fac	BLC	Fac	BLC	Fac	BLC	Fac	.BLC	Fac.	.BLC	Fac	BLC	Fac	.BLC	Fac	.BLC	Fac	.BLC	Fac
1	1.2D+1.0Wo (0 Deg)Yes	Υ		1			1.2	3	1	41	1												
2	1.2D+1.0Wo (30 D.	.Yes	Υ		1	1.2	39	1.2	4	1	42	1												
3	1.2D+1.0Wo (60 D.	.Yes	Υ		1	1.2	39	1.2	5	1	43	1												
4	1.2D+1.0Wo (90 D.	.Yes	Υ		1	1.2	39	1.2	6	1	44	1												
5	1.2D+1.0Wo (120	. Yes	Υ		1	1.2	39	1.2	7	1	45	1												
6	1.2D+1.0Wo (150	. Yes	Υ		1	1.2	39	1.2	8	1	46	1												
7	1.2D+1.0Wo (180	. Yes	Υ		1	1.2	39	1.2	9	1	47	1												
8	1.2D+1.0Wo (210		Υ		1	1.2	39	1.2	10	1	48	1												
9	1.2D+1.0Wo (240	. Yes	Υ		1	1.2	39	1.2	11	1	49	1												
10	1.2D+1.0Wo (270	. Yes	Υ		1	1.2	39	1.2	12	1	50	1												
11	1.2D+1.0Wo (300	. Yes	Υ		1	1.2	39	1.2	13	1	51	1												
12	1.2D+1.0Wo (330	. Yes	Υ		1	1.2	39	1.2	14	1	52	1												
13	1.2D + 1.0Di + 1.0	. Yes	Υ		1	1.2	39	1.2	2	1	40	1	15	1	53	1								
14	1.2D + 1.0Di + 1.0	. Yes	Υ		1	1.2	39	1.2	2	1	40	1	16	1	54	1								
15	1.2D + 1.0Di + 1.0	. Yes	Υ		1	1.2	39	1.2	2	1	40	1	17	1	55	1								
16	1.2D + 1.0Di + 1.0	. Yes	Υ		1	1.2	39	1.2	2	1	40	1	18	1	56	1								
17	1.2D + 1.0Di + 1.0				1	1.2	39	1.2	2	1	40	1	19	1	57	1								
18	1.2D + 1.0Di + 1.0	. Yes	Υ		1	1.2	39	1.2	2	1	40	1	20	1	58	1								
19	1.2D + 1.0Di + 1.0	. Yes	Υ		1	1.2	39	1.2	2	1	40	1	21	1	59	1								
20	1.2D + 1.0Di + 1.0	. Yes	Υ		1	1.2	39	1.2	2	1	40	1	22	1	60	1								
21	1.2D + 1.0Di + 1.0	. Yes	Υ		1	1.2	39	1.2	2	1	40	1	23	1	61	1								
22	1.2D + 1.0Di + 1.0	. Yes	Υ		1	1.2	39	1.2	2	1	40	1	24	1	62	1								
23	1.2D + 1.0Di + 1.0	. Yes	Υ		1	1.2	39	1.2	2	1	40	1	25	1	63	1								
24	1.2D + 1.0Di + 1.0	. Yes	Υ		1	1.2	39	1.2	2	1	40	1	26	1	64	1								
25	1.2D + 1.5Lm1 + 1.	.Yes	Υ		1	1.2	39	1.2	77	1.5	27	1	65	1										
26	1.2D + 1.5Lm1 + 1.	.Yes	Υ		1	1.2	39	1.2	77	1.5	28	1	66	1										



: Colliers Engineering & Design

: Mount Analysis

Nov 14, 2023 1:09 PM Checked By:_

Load Combinations (Continued)

Description Co. D. C	DICE-	- DLO	Г	DI C	Г Г	21.0	Г	DI C	Г	DI C	Г	DI 0	Г	DI C	Г	DI C	Г	DI C	Г
Description SoP S							<u>гас</u> 1			.BLC	<u>гас</u>	BLC	rac	BLC	rac	BLC	rac	BLC	rac
28 1.2D + 1.5Lm1 + 1Yes Y		2 39			1.5			67	1										
		2 39		77			1_1	68	1										
		2 39					1	69	1										
		2 39					1_	70	1										
			1.2	77			1_	71	1										
32 1.2D + 1.5Lm1 + 1Yes Y		2 39		77	1.5		1_	72	1										
33 1.2D + 1.5Lm1 + 1Yes Y		2 39		77	1.5		1_	73	1										
34 1.2D + 1.5Lm1 + 1Yes Y		.2 39		77	1.5		1_	74	1										
35 1.2D + 1.5Lm1 + 1Yes Υ		.2 39		77		-	1_	75	1									\square	
36 1.2D + 1.5Lm1 + 1Yes Y		.2 39		77	1.5		1_	76	1										
37 1.2D + 1.5Lm2 + 1Yes Υ		.2 39					_1_	65	1									\square	
38 1.2D + 1.5Lm2 + 1Yes Y	1 1	.2 39	1.2	78	1.5	28	1	66	1										
39 1.2D + 1.5Lm2 + 1Yes Y	1 1	.2 39	1.2	78	1.5	29	1	67	1										
40 1.2D + 1.5Lm2 + 1Yes Y	1 1	.2 39	1.2	78	1.5	30	1	68	1										
41 1.2D + 1.5Lm2 + 1Yes Y	1 1	.2 39	1.2	78	1.5	31	1	69	1]	
42 1.2D + 1.5Lm2 + 1Yes Y	1 1	.2 39	1.2	78	1.5	32	1	70	1										
43 1.2D + 1.5Lm2 + 1Yes Y	1 1	.2 39	1.2	78	1.5	33	1	71	1										
44 1.2D + 1.5Lm2 + 1Yes Y	1 1	.2 39	1.2	78	1.5	34	1	72	1										
45 1.2D + 1.5Lm2 + 1Yes Y	1 1	.2 39	1.2				1	73	1									\Box	
46 1.2D + 1.5Lm2 + 1Yes Y		.2 39					1	74	1										
47 1.2D + 1.5Lm2 + 1Yes Y		2 39					1	75	1									\Box	
48 1.2D + 1.5Lm2 + 1Yes Y		2 39					1	76	1										
49 1.2D + 1.5Lv1 Yes Y		2 39					•		•										
50 1.2D + 1.5Lv2 Yes Y		2 39																	
51 1.4D Yes Y		4 39		00	1.0														
52 1.2D + 1.0Ev + 1.0Yes Y		.2 39		81	1	ELY	1	82	1	83		ELZ	1	ELX					
53 1.2D + 1.0Ev + 1.0Yes Y		2 39				ΞLΥ	1		.866				.866		.5				
54 1.2D + 1.0Ev + 1.0Yes Y		.2 39				ELY	1	82	.5	83				-	.866				
55 1.2D + 1.0Ev + 1.0Yes Y			1.2	_		ELY	1	82	.0	83		ELZ		ELX	1				
56 1.2D + 1.0Ev + 1.0Yes Υ			1.2	81	-	ELY	1	82	5	83	.866								
57 1.2D + 1.0Ev + 1.0Yes Y				_		ELY	1		866				5 866						
			1.2	81		ELY						ELZ		ELX	.ე				
00			1.2	81			1	82	-1	83									
			1.2	81		ELY	1		866		5								
		2 39				ELY	1_	82	5		866								
61 1.2D + 1.0Ev + 1.0Yes Y			1.2	81	-	ELY	1	82	_	83		ELZ		ELX					
62 1.2D + 1.0Ev + 1.0 Yes Y		2 39		81		ELY	1_	82			866								
63 1.2D + 1.0Ev + 1.0Yes Y			1.2	81		ELY	1_		.866		5	_			5				
64 0.9D - 1.0Ev + 1.0 Yes Y		9 39		81		ELY		82	1	83		ELZ		ELX					
65 0.9D - 1.0Ev + 1.0 Yes Y			.9	81							.5								
66 0.9D - 1.0Ev + 1.0 Yes Y		9 39	_	81	-1	_		82	.5		.866								
67 0.9D - 1.0Ev + 1.0 Yes Y		9 39		81				82		83		ELZ		ELX					
68 0.9D - 1.0Ev + 1.0 Yes Y		9 39		81		_					.866								
69 0.9D - 1.0Ev + 1.0 Yes Y	1 .	9 39		81		_		-	866				866						
70 0.9D - 1.0Ev + 1.0 Yes Y	1 .	9 39		81		ELY		82		83			-1	-					
71 0.9D - 1.0Ev + 1.0 Yes Y	1 .	9 39	.9	81	-1 E	ΞLΥ	-1		866										
72 0.9D - 1.0Ev + 1.0 Yes Y	1 .	9 39	.9	81		ELY		82	5	83	866			ELX	866				
73 0.9D - 1.0Ev + 1.0 Yes Y		9 39		81	-1 E	ΞLΥ	-1	82		83	-1			ELX					
74 0.9D - 1.0Ev + 1.0 Yes Y		9 39		81	-1 E	ΞLΥ	-1	82	.5	83	866	ELZ	.5	ELX	866				
75 0.9D - 1.0Ev + 1.0 Yes Y	1 .	9 39	.9	81	-1 E	ΞLΥ	-1	82	.866	83	5	ELZ	.866	ELX	5				

Joint Coordinates and Temperatures

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap
1	N1	.125	0	0	Ó	
2	N2	2.666667	0	0	0	
3	N3	-2.666667	0	0	0	
4	N4	5.264743	0	-1.5	0	
5	N5	.125	-4.666667	0	0	

: Colliers Engineering & Design

Nov 14, 2023 1:09 PM Checked By:_ : Mount Analysis

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap
6	N6	2.666667	-4.666667	0	0	
7	N7	-2.666667	-4.666667	0	0	
8	N8	5.264743	-4.666667	-1.5	0	
9	N9	1.666667	0	0	0	
10	N10	1.666667	-4.666667	0	0	
11	N11	-1.666667	0	0	0	
12	N12	-1.666667	-4.666667	0	0	
13	N13	1.666667	0	.25	0	
14	N14	1.666667	-4.666667	.25	0	
15	N15	-1.666667	0	.25	0	
16	N16	-1.666667	-4.666667	.25	0	
17	N17	1.666667	1	.25	0	
18	N18	-1.666667	1	.25	0	
19	N19	1.666667	-5	.25	0	
20	N20	-1.666667	-5	.25	0	
21	N21	4.543055	0	-1.083333	0	
22	N22	4.543055	-4.666667	-1.083333	0	
23	N23	4.668055	0	-0.866827	0	
24	N24	4.668055	-4.666667	-0.866827	0	
25	N25	4.668055	1.5	-0.866827	0	
26	N26	4.668055	-5.5	-0.866827	0	
27	N29	-5.264743	0	-1.5	0	
28	N32	-5.264743	-4.666667	-1.5	0	
29	N33	-4.543055	0	-1.083333	0	
30	N34	-4.543055	-4.666667	-1.083333	0	
31	N35	-4.668055	0	-0.866827	0	
32	N36	-4.668055	-4.666667	-0.866827	0	
33	N37	-4.668055	1.5	-0.866827	0	
34	N38	-4.668055	-5.5	-0.866827	0	
35	N35A	0	0	0	0	
36	N36A	0	-4.666667	0	0	
37	N37A	125	0	0	0	
38	N38A	125	-4.666667	0	0	

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design L	. Material	Design	A [in2]	lyy [in4]	Izz [in4]	J [in4]
1	Mount Pipe	PIPE 2.0	Beam	Tube	A53 Gr. B	Typical	1.02	.627	.627	1.25
2	Face Horizontal	L3X3X4	Column	Pipe	A36 Gr.36	Typical	1.44	1.23	1.23	.031

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(deg)		Туре	Design List	Material	Design Rules
1	M1	N3	N2			Face Horizontal		Pipe	A36 Gr.36	Typical
2	M2	N2	N4			Face Horizontal		Pipe	A36 Gr.36	Typical
3	FACE2	N7	N6			Face Horizontal		Pipe	A36 Gr.36	Typical
4	FACE3	N6	N8		270	Face Horizontal	Column	Pipe	A36 Gr.36	Typical
5	M5	N11	N15			RIGID	None	None	RIGID	Typical
6	M6	N9	N13			RIGID	None	None	RIGID	Typical
7	LIVE1	N10	N14			RIGID	None	None	RIGID	Typical
8	LIVE2	N12	N16			RIGID	None	None	RIGID	Typical
9	MP2A	N17	N19			Mount Pipe	Beam	Tube	A53 Gr. B	Typical
10	MP3A	N18	N20			Mount Pipe	Beam	Tube	A53 Gr. B	Typical
11	M11	N21	N23			RIGID	None	None	RIGID	Typical
12	M12	N22	N24			RIGID	None	None	RIGID	Typical
13	MP1A	N25	N26			Mount Pipe	Beam	Tube	A53 Gr. B	Typical
14	M14	N3	N29			Face Horizontal		Pipe	A36 Gr.36	Typical
15	FACE1	N7	N32			Face Horizontal	Column	Pipe	A36 Gr.36	Typical



: Colliers Engineering & Design

Nov 14, 2023 1:09 PM Checked By:_

: Mount Analysis

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
16	M16	N33	N35			RIGID	None	None	RIGID	Typical
17	M17	N34	N36			RIGID	None	None	RIGID	Typical
18	MP4A	N37	N38			Mount Pipe	Beam	Tube	A53 Gr. B	Typical

Member Advanced Data

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat	Analysis	Inactive	Seismic
1	M1						Yes	** NA **			None
2	M2						Yes	** NA **			None
3	FACE2						Yes	** NA **			None
4	FACE3						Yes	** NA **			None
5	M5		00000				Yes	** NA **			None
6	M6		00000				Yes	** NA **			None
7	LIVE1		00000				Yes	** NA **			None
8	LIVE2		000X00				Yes	** NA **			None
9	MP2A						Yes				None
10	MP3A						Yes				None
11	M11		00000				Yes	** NA **			None
12	M12		00000				Yes	** NA **			None
13	MP1A						Yes				None
14	M14						Yes	** NA **			None
15	FACE1						Yes	** NA **			None
16	M16		00000				Yes	** NA **			None
17	M17		00000				Yes	** NA **			None
18	MP4A						Yes				None

Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	Υ	-20.3	.5
2	MP1A	My	01	.5
3	MP1A	Mz	0	.5
4	MP1A	Υ	-20.3	4
5	MP1A	My	01	4
6	MP1A	Mz	0	4
7	MP2A	Υ	-20.3	.5
8	MP2A	My	01	.5
9	MP2A	Mz	0	.5
10	MP2A	Υ	-20.3	4
11	MP2A	My	01	4
12	MP2A	Mz	0	4
13	MP3A	Υ	-20.3	.5
14	MP3A	My	01	.5
15	MP3A	Mz	0	.5
16	MP3A	Υ	-20.3	4
17	MP3A	My	01	4
18	MP3A	Mz	0	4
19	MP4A	Υ	-20.3	.5
20	MP4A	My	01	.5
21	MP4A	Mz	0	.5
22	MP4A	Υ	-20.3	4
23	MP4A	My	01	4
24	MP4A	Mz	0	4
25	MP2A	Υ	-8.8	4.5
26	MP2A	My	.009	4.5
27	MP2A	Mz	.003	4.5
28	MP2A	Υ	-8.8	5.5
29	MP2A	My	.009	5.5

: Colliers Engineering & Design

: Mount Analysis

Nov 14, 2023 1:09 PM Checked By:_

Member Point Loads (BLC 1 : Antenna D) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
30	MP2A	Mz	.003	5.5
31	MP2A	Υ	-8.8	4.5
32	MP2A	My	.009	4.5
33	MP2A	Mz	003	4.5
34	MP2A	Υ	-8.8	5.5
35	MP2A	My	.009	5.5
36	MP2A	Mz	003	5.5

Member Point Loads (BLC 3 : Antenna Wo (0 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	.5
2	MP1A	Z	0	.5
3	MP1A	Mx	0	.5
4	MP1A	X	0	4
5	MP1A	Z	0	4
6	MP1A	Mx	0	4
7	MP2A	X	0	.5
8	MP2A	Z	0	.5
9	MP2A	Mx	0	.5
10	MP2A	X	0	4
11	MP2A	Z	0	4
12	MP2A	Mx	0	4
13	MP3A	X	0	.5
14	MP3A	Z	0	.5
15	MP3A	Mx	0	.5
16	MP3A	X	0	4
17	MP3A	Z	0	4
18	MP3A	Mx	0	4
19	MP4A	X	0	.5
20	MP4A	Z	0	.5
21	MP4A	Mx	0	.5
22	MP4A	X	0	4
23	MP4A	Z	0	4
24	MP4A	Mx	0	4
25	MP2A	X	0	4.5
26	MP2A	Z	0	4.5
27	MP2A	Mx	0	4.5
28	MP2A	X	0	5.5
29	MP2A	Z	0	5.5
30	MP2A	Mx	0	5.5
31	MP2A	X	0	4.5
32	MP2A	Z	0	4.5
33	MP2A	Mx	0	4.5
34	MP2A	X	0	5.5
35	MP2A	Z	0	5.5
36	MP2A	Mx	0	5.5

Member Point Loads (BLC 4 : Antenna Wo (30 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	.5
2	MP1A	Z	0	.5
3	MP1A	Mx	0	.5
4	MP1A	X	0	4
5	MP1A	Z	0	4
6	MP1A	Mx	0	4
7	MP2A	X	0	.5
8	MP2A	Z	0	.5
9	MP2A	Mx	0	.5

: Colliers Engineering & Design

: Mount Analysis

Nov 14, 2023 1:09 PM Checked By:_

Member Point Loads (BLC 4 : Antenna Wo (30 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
10	MP2A	X	0	4
11	MP2A	Z	0	4
12	MP2A	Mx	0	4
13	MP3A	X	0	.5
14	MP3A	Z	0	.5
15	MP3A	Mx	0	.5
16	MP3A	X	0	4
17	MP3A	Z	0	4
18	MP3A	Mx	0	4
19	MP4A	X	0	.5
20	MP4A	Z	0	.5
21	MP4A	Mx	0	.5
22	MP4A	X	0	4
23	MP4A	Z	0	4
24	MP4A	Mx	0	4
25	MP2A	X	0	4.5
26	MP2A	Z	0	4.5
27	MP2A	Mx	0	4.5
28	MP2A	X	0	5.5
29	MP2A	Z	0	5.5
30	MP2A	Mx	0	5.5
31	MP2A	X	0	4.5
32	MP2A	Z	0	4.5
33	MP2A	Mx	0	4.5
34	MP2A	X	0	5.5
35	MP2A	Z	0	5.5
36	MP2A	Mx	0	5.5

Member Point Loads (BLC 5 : Antenna Wo (60 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	.5
2	MP1A	Z	0	.5
3	MP1A	Mx	0	.5
4	MP1A	X	0	4
5	MP1A	Z	0	4
6	MP1A	Mx	0	4
7	MP2A	X	0	.5
8	MP2A	Z	0	.5
9	MP2A	Mx	0	.5
10	MP2A	X	0	4
11	MP2A	Z	0	4
12	MP2A	Mx	0	4
13	MP3A	X	0	.5
14	MP3A	Z	0	.5
15	MP3A	Mx	0	.5
16	MP3A	X	0	4
17	MP3A	Z	0	4
18	MP3A	Mx	0	4
19	MP4A	X	0	.5
20	MP4A	Z	0	.5
21	MP4A	Mx	0	.5
22	MP4A	X	0	4
23	MP4A	Z	0	4
24	MP4A	Mx	0	4
25	MP2A	X	0	4.5
26	MP2A	Z	0	4.5
27	MP2A	Mx	0	4.5
28	MP2A	X	0	5.5



: Colliers Engineering & Design

: : Mount Analysis Nov 14, 2023 1:09 PM Checked By:_

Member Point Loads (BLC 5 : Antenna Wo (60 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
29	MP2A	Z	0	5.5
30	MP2A	Mx	0	5.5
31	MP2A	X	0	4.5
32	MP2A	Z	0	4.5
33	MP2A	Mx	0	4.5
34	MP2A	X	0	5.5
35	MP2A	Z	0	5.5
36	MP2A	Mx	0	5.5

Member Point Loads (BLC 6 : Antenna Wo (90 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	.5
2	MP1A	Z	0	.5
3	MP1A	Mx	0	.5
4	MP1A	X	0	4
5	MP1A	Z	0	4
6	MP1A	Mx	0	4
7	MP2A	Х	0	.5
8	MP2A	Z	0	.5
9	MP2A	Mx	0	.5
10	MP2A	X	0	4
11	MP2A	Z	0	4
12	MP2A	Mx	0	4
13	MP3A	Х	0	.5
14	MP3A	Z	0	.5
15	MP3A	Mx	0	.5
16	MP3A	X	0	4
17	MP3A	Z	0	4
18	MP3A	Mx	0	4
19	MP4A	X	0	.5
20	MP4A	Z	0	.5
21	MP4A	Mx	0	.5
22	MP4A	X	0	4
23	MP4A	Z	0	4
24	MP4A	Mx	0	4
25	MP2A	Х	0	4.5
26	MP2A	Z	0	4.5
27	MP2A	Mx	0	4.5
28	MP2A	X	0	5.5
29	MP2A	Z	0	5.5
30	MP2A	Mx	0	5.5
31	MP2A	Х	0	4.5
32	MP2A	Z	0	4.5
33	MP2A	Mx	0	4.5
34	MP2A	X	0	5.5
35	MP2A	Z	0	5.5
36	MP2A	Mx	0	5.5

Member Point Loads (BLC 7 : Antenna Wo (120 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	.5
2	MP1A	Z	0	.5
3	MP1A	Mx	0	.5
4	MP1A	X	0	4
5	MP1A	Z	0	4
6	MP1A	Mx	0	4
7	MP2A	X	0	.5
8	MP2A	Z	0	.5

: Colliers Engineering & Design

: Mount Analysis

Nov 14, 2023 1:09 PM Checked By:_

Member Point Loads (BLC 7 : Antenna Wo (120 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
9	MP2A	Mx	0	.5
10	MP2A	X	0	4
11	MP2A	Z	0	4
12	MP2A	Mx	0	4
13	MP3A	Χ	0	.5
14	MP3A	Z	0	.5
15	MP3A	Mx	0	.5
16	MP3A	X	0	4
17	MP3A	Z	0	4
18	MP3A	Mx	0	4
19	MP4A	X	0	.5
20	MP4A	Z	0	.5
21	MP4A	Mx	0	.5
22	MP4A	X	0	4
23	MP4A	Z	0	4
24	MP4A	Mx	0	4
25	MP2A	X	0	4.5
26	MP2A	Z	0	4.5
27	MP2A	Mx	0	4.5
28	MP2A	Χ	0	5.5
29	MP2A	Z	0	5.5
30	MP2A	Mx	0	5.5
31	MP2A	X	0	4.5
32	MP2A	Z	0	4.5
33	MP2A	Mx	0	4.5
34	MP2A	X	0	5.5
35	MP2A	Z	0	5.5
36	MP2A	Mx	0	5.5

Member Point Loads (BLC 8 : Antenna Wo (150 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	.5
2	MP1A	Z	0	.5
3	MP1A	Mx	0	.5
4	MP1A	X	0	4
5	MP1A	Z	0	4
6	MP1A	Mx	0	4
7	MP2A	Х	0	.5
8	MP2A	Z	0	.5
9	MP2A	Mx	0	.5
10	MP2A	X	0	4
11	MP2A	Z	0	4
12	MP2A	Mx	0	4
13	MP3A	X	0	.5
14	MP3A	Z	0	.5
15	MP3A	Mx	0	.5
16	MP3A	X	0	4
17	MP3A	Z	0	4
18	MP3A	Mx	0	4
19	MP4A	X	0	.5
20	MP4A	Z	0	.5
21	MP4A	Mx	0	.5
22	MP4A	X	0	4
23	MP4A	Z	0	4
24	MP4A	Mx	0	4
25	MP2A	X	0	4.5
26	MP2A	Z	0	4.5
27	MP2A	Mx	0	4.5

: Colliers Engineering & Design

Nov 14, 2023 1:09 PM Checked By:_

: Mount Analysis

Member Point Loads (BLC 8 : Antenna Wo (150 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
28	MP2A	X	0	5.5
29	MP2A	Z	0	5.5
30	MP2A	Mx	0	5.5
31	MP2A	X	0	4.5
32	MP2A	Z	0	4.5
33	MP2A	Mx	0	4.5
34	MP2A	X	0	5.5
35	MP2A	Z	0	5.5
36	MP2A	Mx	0	5.5

Member Point Loads (BLC 9 : Antenna Wo (180 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	.5
2	MP1A	Z	0	.5
3	MP1A	Mx	0	.5
4	MP1A	X	0	4
5	MP1A	Z	0	4
6	MP1A	Mx	0	4
7	MP2A	X	0	.5
8	MP2A	Z	0	.5
9	MP2A	Mx	0	.5
10	MP2A	X	0	4
11	MP2A	Z	0	4
12	MP2A	Mx	0	4
13	MP3A	X	0	.5
14	MP3A	Z	0	.5
15	MP3A	Mx	0	.5
16	MP3A	X	0	4
17	MP3A	Z	0	4
18	MP3A	Mx	0	4
19	MP4A	X	0	.5
20	MP4A	Z	0	.5
21	MP4A	Mx	0	.5
22	MP4A	X	0	4
23	MP4A	Z	0	4
24	MP4A	Mx	0	4
25	MP2A	X	0	4.5
26	MP2A	Z	0	4.5
27	MP2A	Mx	0	4.5
28	MP2A	X	0	5.5
29	MP2A	Z	0	5.5
30	MP2A	Mx	0	5.5
31	MP2A	X	0	4.5
32	MP2A	Z	0	4.5
33	MP2A	Mx	0	4.5
34	MP2A	X	0	5.5
35	MP2A	Z	0	5.5
36	MP2A	Mx	0	5.5

Member Point Loads (BLC 10 : Antenna Wo (210 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	.5
2	MP1A	Z	0	.5
3	MP1A	Mx	0	.5
4	MP1A	X	0	4
5	MP1A	Z	0	4
6	MP1A	Mx	0	4
7	MP2A	X	0	.5

: Colliers Engineering & Design

: Mount Analysis

Nov 14, 2023 1:09 PM Checked By:_

Member Point Loads (BLC 10: Antenna Wo (210 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
8	MP2A	Z	0	.5
9	MP2A	Mx	0	.5
10	MP2A	X	0	4
11	MP2A	Z	0	4
12	MP2A	Mx	0	4
13	MP3A	X	0	.5
14	MP3A	Z	0	.5
15	MP3A	Mx	0	.5
16	MP3A	X	0	4
17	MP3A	Z	0	4
18	MP3A	Mx	0	4
19	MP4A	X	0	.5
20	MP4A	Z	0	.5
21	MP4A	Mx	0	.5
22	MP4A	X	0	4
23	MP4A	Z	0	4
24	MP4A	Mx	0	4
25	MP2A	X	0	4.5
26	MP2A	Z	0	4.5
27	MP2A	Mx	0	4.5
28	MP2A	X	0	5.5
29	MP2A	Z	0	5.5
30	MP2A	Mx	0	5.5
31	MP2A	X	0	4.5
32	MP2A	Z	0	4.5
33	MP2A	Mx	0	4.5
34	MP2A	X	0	5.5
35	MP2A	Z	0	5.5
36	MP2A	Mx	0	5.5

Member Point Loads (BLC 11 : Antenna Wo (240 Deg))

1 MP1A X 0 .5 2 MP1A Z 0 .5 3 MP1A MX 0 .5 4 MP1A X 0 4 5 MP1A Z 0 4 6 MP1A MX 0 4 7 MP2A X 0 .5 8 MP2A Z 0 .5 9 MP2A MX 0 .5 10 MP2A X 0 4 11 MP2A X 0 4 12 MP2A MX 0 4 13 MP3A X 0 .5 14 MP3A Z 0 .5 15 MP3A MX 0 .5	
3 MP1A Mx 0 .5 4 MP1A X 0 4 5 MP1A Z 0 4 6 MP1A Mx 0 4 7 MP2A X 0 .5 8 MP2A Z 0 .5 9 MP2A Mx 0 .5 10 MP2A X 0 4 11 MP2A Z 0 4 12 MP2A Mx 0 4 13 MP3A X 0 .5 14 MP3A Z 0 .5	
4 MP1A X 0 4 5 MP1A Z 0 4 6 MP1A Mx 0 4 7 MP2A X 0 .5 8 MP2A Z 0 .5 9 MP2A Mx 0 .5 10 MP2A X 0 4 11 MP2A Z 0 4 12 MP2A Mx 0 4 13 MP3A X 0 .5 14 MP3A Z 0 .5	
5 MP1A Z 0 4 6 MP1A Mx 0 4 7 MP2A X 0 .5 8 MP2A Z 0 .5 9 MP2A Mx 0 .5 10 MP2A X 0 4 11 MP2A Z 0 4 12 MP2A Mx 0 4 13 MP3A X 0 .5 14 MP3A Z 0 .5	
6 MP1A Mx 0 4 7 MP2A X 0 .5 8 MP2A Z 0 .5 9 MP2A Mx 0 .5 10 MP2A X 0 4 11 MP2A Z 0 4 12 MP2A Mx 0 4 13 MP3A X 0 .5 14 MP3A Z 0 .5	
7 MP2A X 0 .5 8 MP2A Z 0 .5 9 MP2A MX 0 .5 10 MP2A X 0 4 11 MP2A Z 0 4 12 MP2A Mx 0 4 13 MP3A X 0 .5 14 MP3A Z 0 .5	
8 MP2A Z 0 .5 9 MP2A Mx 0 .5 10 MP2A X 0 4 11 MP2A Z 0 4 12 MP2A Mx 0 4 13 MP3A X 0 .5 14 MP3A Z 0 .5	
9 MP2A Mx 0 .5 10 MP2A X 0 4 11 MP2A Z 0 4 12 MP2A Mx 0 4 13 MP3A X 0 .5 14 MP3A Z 0 .5	
10 MP2A X 0 4 11 MP2A Z 0 4 12 MP2A Mx 0 4 13 MP3A X 0 .5 14 MP3A Z 0 .5	
11 MP2A Z 0 4 12 MP2A Mx 0 4 13 MP3A X 0 .5 14 MP3A Z 0 .5	
12 MP2A Mx 0 4 13 MP3A X 0 .5 14 MP3A Z 0 .5	
13 MP3A X 0 .5 14 MP3A Z 0 .5	
14 MP3A Z 0 .5	
15 MP3A Mx 0 .5	
16 MP3A X 0 4	
17 MP3A Z 0 4	
18 MP3A Mx 0 4	
19 MP4A X 0 .5	
20 MP4A Z 0 .5	
21 MP4A Mx 0 .5	
22 MP4A X 0 4	
23 MP4A Z 0 4	
24 MP4A Mx 0 4	
25 MP2A X 0 4.5	
26 MP2A Z 0 4.5	

: Colliers Engineering & Design

Nov 14, 2023 1:09 PM Checked By:_

: Mount Analysis

Member Point Loads (BLC 11: Antenna Wo (240 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
27	MP2A	Mx	0	4.5
28	MP2A	X	0	5.5
29	MP2A	Z	0	5.5
30	MP2A	Mx	0	5.5
31	MP2A	X	0	4.5
32	MP2A	Z	0	4.5
33	MP2A	Mx	0	4.5
34	MP2A	X	0	5.5
35	MP2A	Z	0	5.5
36	MP2A	Mx	0	5.5

Member Point Loads (BLC 12 : Antenna Wo (270 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	.5
2	MP1A	Z	0	.5
3	MP1A	Mx	0	.5
4	MP1A	X	0	4
5	MP1A	Z	0	4
6	MP1A	Mx	0	4
7	MP2A	X	0	.5
8	MP2A	Z	0	.5
9	MP2A	Mx	0	.5
10	MP2A	X	0	4
11	MP2A	Z	0	4
12	MP2A	Mx	0	4
13	MP3A	X	0	.5
14	MP3A	Z	0	.5
15	MP3A	Mx	0	.5
16	MP3A	X	0	4
17	MP3A	Z	0	4
18	MP3A	Mx	0	4
19	MP4A	X	0	.5
20	MP4A	Z	0	.5
21	MP4A	Mx	0	.5
22	MP4A	X	0	4
23	MP4A	Z	0	4
24	MP4A	Mx	0	4
25	MP2A	X	0	4.5
26	MP2A	Z	0	4.5
27	MP2A	Mx	0	4.5
28	MP2A	X	0	5.5
29	MP2A	Z	0	5.5
30	MP2A	Mx	0	5.5
31	MP2A	X	0	4.5
32	MP2A	Z	0	4.5
33	MP2A	Mx	0	4.5
34	MP2A	X	0	5.5
35	MP2A	Z	0	5.5
36	MP2A	Mx	0	5.5

Member Point Loads (BLC 13 : Antenna Wo (300 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	.5
2	MP1A	Z	0	.5
3	MP1A	Mx	0	.5
4	MP1A	X	0	4
5	MP1A	Z	0	4
6	MP1A	Mx	0	4

: Colliers Engineering & Design

: Mount Analysis

Nov 14, 2023 1:09 PM Checked By:_

Member Point Loads (BLC 13: Antenna Wo (300 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
7	MP2A	X	0	.5
8	MP2A	Z	0	.5
9	MP2A	Mx	0	.5
10	MP2A	X	0	4
11	MP2A	Z	0	4
12	MP2A	Mx	0	4
13	MP3A	X	0	.5
14	MP3A	Z	0	.5
15	MP3A	Mx	0	.5
16	MP3A	X	0	4
17	MP3A	Z	0	4
18	MP3A	Mx	0	4
19	MP4A	X	0	.5
20	MP4A	Z	0	.5
21	MP4A	Mx	0	.5
22	MP4A	X	0	4
23	MP4A	Z	0	4
24	MP4A	Mx	0	4
25	MP2A	X	0	4.5
26	MP2A	Z	0	4.5
27	MP2A	Mx	0	4.5
28	MP2A	X	0	5.5
29	MP2A	Z	0	5.5
30	MP2A	Mx	0	5.5
31	MP2A	X	0	4.5
32	MP2A	Z	0	4.5
33	MP2A	Mx	0	4.5
34	MP2A	X	0	5.5
35	MP2A	Z	0	5.5
36	MP2A	Mx	0	5.5

Member Point Loads (BLC 14 : Antenna Wo (330 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	.5
2	MP1A	Z	0	.5
3	MP1A	Mx	0	.5
4	MP1A	Х	0	4
5	MP1A	Z	0	4
6	MP1A	Mx	0	4
7	MP2A	Х	0	.5
8	MP2A	Z	0	.5
9	MP2A	Mx	0	.5
10	MP2A	X	0	4
11	MP2A	Z	0	4
12	MP2A	Mx	0	4
13	MP3A	Χ	0	.5
14	MP3A	Z	0	.5
15	MP3A	Mx	0	.5
16	MP3A	X	0	4
17	MP3A	Z	0	4
18	MP3A	Mx	0	4
19	MP4A	X	0	.5
20	MP4A	Z	0	.5
21	MP4A	Mx	0	.5
22	MP4A	X	0	4
23	MP4A	Z	0	4
24	MP4A	Mx	0	4
25	MP2A	X	0	4.5

: Colliers Engineering & Design

: : Mount Analysis Nov 14, 2023 1:09 PM Checked By:_

Member Point Loads (BLC 14: Antenna Wo (330 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
26	MP2A	Z	0	4.5
27	MP2A	Mx	0	4.5
28	MP2A	X	0	5.5
29	MP2A	Z	0	5.5
30	MP2A	Mx	0	5.5
31	MP2A	X	0	4.5
32	MP2A	Z	0	4.5
33	MP2A	Mx	0	4.5
34	MP2A	X	0	5.5
35	MP2A	Z	0	5.5
36	MP2A	Mx	0	5.5

Member Point Loads (BLC 27 : Antenna Wm (0 Deg))

member 7 om Leade (220 17 17 member 10 20g))					
	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]	
1	MP1A	X	0	.5	
2	MP1A	Z	0	.5	
3	MP1A	Mx	0	.5	
4	MP1A	X	0	4	
5	MP1A	Z	0	4	
6	MP1A	Mx	0	4	
7	MP2A	X	0	.5	
8	MP2A	Z	0	.5	
9	MP2A	Mx	0	.5	
10	MP2A	X	0	4	
11	MP2A	Z	0	4	
12	MP2A	Mx	0	4	
13	MP3A	X	0	.5	
14	MP3A	Z	0	.5	
15	MP3A	Mx	0	.5	
16	MP3A	X	0	4	
17	MP3A	Z	0	4	
18	MP3A	Mx	0	4	
19	MP4A	X	0	.5	
20	MP4A	Z	0	.5	
21	MP4A	Mx	0	.5	
22	MP4A	X	0	4	
23	MP4A	Z	0	4	
24	MP4A	Mx	0	4	
25	MP2A	X	0	4.5	
26	MP2A	Z	0	4.5	
27	MP2A	Mx	0	4.5	
28	MP2A	X	0	5.5	
29	MP2A	Z	0	5.5	
30	MP2A	Mx	0	5.5	
31	MP2A	X	0	4.5	
32	MP2A	Z	0	4.5	
33	MP2A	Mx	0	4.5	
34	MP2A	X	0	5.5	
35	MP2A	Z	0	5.5	
36	MP2A	Mx	0	5.5	

Member Point Loads (BLC 28 : Antenna Wm (30 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	.5
2	MP1A	Z	0	.5
3	MP1A	Mx	0	.5
4	MP1A	X	0	4
5	MP1A	Z	0	4

: Colliers Engineering & Design

: Mount Analysis

Nov 14, 2023 1:09 PM Checked By:_

Member Point Loads (BLC 28: Antenna Wm (30 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
6	MP1A	Mx	0	4
7	MP2A	Χ	0	.5
8	MP2A	Z	0	.5
9	MP2A	Mx	0	.5
10	MP2A	Χ	0	4
11	MP2A	Z	0	4
12	MP2A	Mx	0	4
13	MP3A	X	0	.5
14	MP3A	Z	0	.5
15	MP3A	Mx	0	.5
16	MP3A	X	0	4
17	MP3A	Z	0	4
18	MP3A	Mx	0	4
19	MP4A	X	0	.5
20	MP4A	Z	0	.5
21	MP4A	Mx	0	.5
22	MP4A	Χ	0	4
23	MP4A	Z	0	4
24	MP4A	Mx	0	4
25	MP2A	X	0	4.5
26	MP2A	Z	0	4.5
27	MP2A	Mx	0	4.5
28	MP2A	X	0	5.5
29	MP2A	Z	0	5.5
30	MP2A	Mx	0	5.5
31	MP2A	X	0	4.5
32	MP2A	Z	0	4.5
33	MP2A	Mx	0	4.5
34	MP2A	X	0	5.5
35	MP2A	Z	0	5.5
36	MP2A	Mx	0	5.5

Member Point Loads (BLC 29 : Antenna Wm (60 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	.5
2	MP1A	Z	0	.5
3	MP1A	Mx	0	.5
4	MP1A	X	0	4
5	MP1A	Z	0	4
6	MP1A	Mx	0	4
7	MP2A	X	0	.5
8	MP2A	Z	0	.5
9	MP2A	Mx	0	.5
10	MP2A	X	0	4
11	MP2A	Z	0	4
12	MP2A	Mx	0	4
13	MP3A	X	0	.5
14	MP3A	Z	0	.5
15	MP3A	Mx	0	.5
16	MP3A	X	0	4
17	MP3A	Z	0	4
18	MP3A	Mx	0	4
19	MP4A	X	0	.5
20	MP4A	Z	0	.5
21	MP4A	Mx	0	.5
22	MP4A	X	0	4
23	MP4A	Z	0	4
24	MP4A	Mx	0	4

: Colliers Engineering & Design

: : Mount Analysis Nov 14, 2023 1:09 PM Checked By:_

Member Point Loads (BLC 29: Antenna Wm (60 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
25	MP2A	X	0	4.5
26	MP2A	Z	0	4.5
27	MP2A	Mx	0	4.5
28	MP2A	X	0	5.5
29	MP2A	Z	0	5.5
30	MP2A	Mx	0	5.5
31	MP2A	X	0	4.5
32	MP2A	Z	0	4.5
33	MP2A	Mx	0	4.5
34	MP2A	X	0	5.5
35	MP2A	Z	0	5.5
36	MP2A	Mx	0	5.5

Member Point Loads (BLC 30 : Antenna Wm (90 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	.5
2	MP1A	Z	0	.5
3	MP1A	Mx	0	.5
4	MP1A	X	0	4
5	MP1A	Z	0	4
6	MP1A	Mx	0	4
7	MP2A	Х	0	.5
8	MP2A	Z	0	.5
9	MP2A	Mx	0	.5
10	MP2A	X	0	4
11	MP2A	Z	0	4
12	MP2A	Mx	0	4
13	MP3A	X	0	.5
14	MP3A	Z	0	.5
15	MP3A	Mx	0	.5
16	MP3A	X	0	4
17	MP3A	Z	0	4
18	MP3A	Mx	0	4
19	MP4A	X	0	.5
20	MP4A	Z	0	.5
21	MP4A	Mx	0	.5
22	MP4A	X	0	4
23	MP4A	Z	0	4
24	MP4A	Mx	0	4
25	MP2A	X	0	4.5
26	MP2A	Z	0	4.5
27	MP2A	Mx	0	4.5
28	MP2A	X	0	5.5
29	MP2A	Z	0	5.5
30	MP2A	Mx	0	5.5
31	MP2A	X	0	4.5
32	MP2A	Z	0	4.5
33	MP2A	Mx	0	4.5
34	MP2A	X	0	5.5
35	MP2A	Z	0	5.5
36	MP2A	Mx	0	5.5

Member Point Loads (BLC 31 : Antenna Wm (120 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	.5
2	MP1A	Z	0	.5
3	MP1A	Mx	0	.5
4	MP1A	X	0	4

: Colliers Engineering & Design

: Mount Analysis

Nov 14, 2023 1:09 PM Checked By:_

Member Point Loads (BLC 31 : Antenna Wm (120 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
5	MP1A	Z	0	4
6	MP1A	Mx	0	4
7	MP2A	X	0	.5
8	MP2A	Z	0	.5
9	MP2A	Mx	0	.5
10	MP2A	X	0	4
11	MP2A	Z	0	4
12	MP2A	Mx	0	4
13	MP3A	X	0	.5
14	MP3A	Z	0	.5
15	MP3A	Mx	0	.5
16	MP3A	X	0	4
17	MP3A	Z	0	4
18	MP3A	Mx	0	4
19	MP4A	X	0	.5
20	MP4A	Z	0	.5
21	MP4A	Mx	0	.5
22	MP4A	X	0	4
23	MP4A	Z	0	4
24	MP4A	Mx	0	4
25	MP2A	X	0	4.5
26	MP2A	Z	0	4.5
27	MP2A	Mx	0	4.5
28	MP2A	X	0	5.5
29	MP2A	Z	0	5.5
30	MP2A	Mx	0	5.5
31	MP2A	Χ	0	4.5
32	MP2A	Z	0	4.5
33	MP2A	Mx	0	4.5
34	MP2A	X	0	5.5
35	MP2A	Z	0	5.5
36	MP2A	Mx	0	5.5

Member Point Loads (BLC 32 : Antenna Wm (150 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	.5
2	MP1A	Z	0	.5
3	MP1A	Mx	0	.5
4	MP1A	X	0	4
5	MP1A	Z	0	4
6	MP1A	Mx	0	4
7	MP2A	X	0	.5
8	MP2A	Z	0	.5
9	MP2A	Mx	0	.5
10	MP2A	X	0	4
11	MP2A	Z	0	4
12	MP2A	Mx	0	4
13	MP3A	X	0	.5
14	MP3A	Z	0	.5
15	MP3A	Mx	0	.5
16	MP3A	X	0	4
17	MP3A	Z	0	4
18	MP3A	Mx	0	4
19	MP4A	X	0	.5
20	MP4A	Z	0	.5
21	MP4A	Mx	0	.5
22	MP4A	X	0	4
23	MP4A	Z	0	4

: Colliers Engineering & Design

: Mount Analysis

Nov 14, 2023 1:09 PM Checked By:_

Member Point Loads (BLC 32: Antenna Wm (150 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
24	MP4A	Mx	0	4
25	MP2A	X	0	4.5
26	MP2A	Z	0	4.5
27	MP2A	Mx	0	4.5
28	MP2A	X	0	5.5
29	MP2A	Z	0	5.5
30	MP2A	Mx	0	5.5
31	MP2A	X	0	4.5
32	MP2A	Z	0	4.5
33	MP2A	Mx	0	4.5
34	MP2A	X	0	5.5
35	MP2A	Z	0	5.5
36	MP2A	Mx	0	5.5

Member Point Loads (BLC 33 : Antenna Wm (180 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	.5
2	MP1A	Z	0	.5
3	MP1A	Mx	0	.5
4	MP1A	X	0	4
5	MP1A	Z	0	4
6	MP1A	Mx	0	4
7	MP2A	X	0	.5
8	MP2A	Z	0	.5
9	MP2A	Mx	0	.5
10	MP2A	X	0	4
11	MP2A	Z	0	4
12	MP2A	Mx	0	4
13	MP3A	X	0	.5
14	MP3A	Z	0	.5
15	MP3A	Mx	0	.5
16	MP3A	X	0	4
17	MP3A	Z	0	4
18	MP3A	Mx	0	4
19	MP4A	Х	0	.5
20	MP4A	Z	0	.5
21	MP4A	Mx	0	.5
22	MP4A	Х	0	4
23	MP4A	Z	0	4
24	MP4A	Mx	0	4
25	MP2A	X	0	4.5
26	MP2A	Z	0	4.5
27	MP2A	Mx	0	4.5
28	MP2A	X	0	5.5
29	MP2A	Z	0	5.5
30	MP2A	Mx	0	5.5
31	MP2A	X	0	4.5
32	MP2A	Z	0	4.5
33	MP2A	Mx	0	4.5
34	MP2A	X	0	5.5
35	MP2A	Z	0	5.5
36	MP2A	Mx	0	5.5

Member Point Loads (BLC 34 : Antenna Wm (210 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	.5
2	MP1A	Z	0	.5
3	MP1A	Mx	0	.5

: Colliers Engineering & Design

: Mount Analysis

Nov 14, 2023 1:09 PM Checked By:_

Member Point Loads (BLC 34: Antenna Wm (210 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
4	MP1A	X	0	4
5	MP1A	Z	0	4
6	MP1A	Mx	0	4
7	MP2A	X	0	.5
8	MP2A	Z	0	.5
9	MP2A	Mx	0	.5
10	MP2A	X	0	4
11	MP2A	Z	0	4
12	MP2A	Mx	0	4
13	MP3A	X	0	.5
14	MP3A	Z	0	.5
15	MP3A	Mx	0	.5
16	MP3A	X	0	4
17	MP3A	Z	0	4
18	MP3A	Mx	0	4
19	MP4A	X	0	.5
20	MP4A	Z	0	.5
21	MP4A	Mx	0	.5
22	MP4A	X	0	4
23	MP4A	Z	0	4
24	MP4A	Mx	0	4
25	MP2A	X	0	4.5
26	MP2A	Z	0	4.5
27	MP2A	Mx	0	4.5
28	MP2A	Χ	0	5.5
29	MP2A	Z	0	5.5
30	MP2A	Mx	0	5.5
31	MP2A	X	0	4.5
32	MP2A	Z	0	4.5
33	MP2A	Mx	0	4.5
34	MP2A	Х	0	5.5
35	MP2A	Z	0	5.5
36	MP2A	Mx	0	5.5

Member Point Loads (BLC 35 : Antenna Wm (240 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	.5
2	MP1A	Z	0	.5
3	MP1A	Mx	0	.5
4	MP1A	X	0	4
5	MP1A	Z	0	4
6	MP1A	Mx	0	4
7	MP2A	X	0	.5
8	MP2A	Z	0	.5
9	MP2A	Mx	0	.5
10	MP2A	X	0	4
11	MP2A	Z	0	4
12	MP2A	Mx	0	4
13	MP3A	X	0	.5
14	MP3A	Z	0	.5
15	MP3A	Mx	0	.5
16	MP3A	X	0	4
17	MP3A	Z	0	4
18	MP3A	Mx	0	4
19	MP4A	X	0	.5
20	MP4A	Z	0	.5
21	MP4A	Mx	0	.5
22	MP4A	X	0	4

: Colliers Engineering & Design

: Mount Analysis

Nov 14, 2023 1:09 PM Checked By:_

Member Point Loads (BLC 35 : Antenna Wm (240 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
23	MP4A	Z	0	4
24	MP4A	Mx	0	4
25	MP2A	X	0	4.5
26	MP2A	Z	0	4.5
27	MP2A	Mx	0	4.5
28	MP2A	X	0	5.5
29	MP2A	Z	0	5.5
30	MP2A	Mx	0	5.5
31	MP2A	X	0	4.5
32	MP2A	Z	0	4.5
33	MP2A	Mx	0	4.5
34	MP2A	X	0	5.5
35	MP2A	Z	0	5.5
36	MP2A	Mx	0	5.5

Member Point Loads (BLC 36 : Antenna Wm (270 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	.5
2	MP1A	Z	0	.5
3	MP1A	Mx	0	.5
4	MP1A	X	0	4
5	MP1A	Z	0	4
6	MP1A	Mx	0	4
7	MP2A	X	0	.5
8	MP2A	Z	0	.5
9	MP2A	Mx	0	.5
10	MP2A	X	0	4
11	MP2A	Z	0	4
12	MP2A	Mx	0	4
13	MP3A	X	0	.5
14	MP3A	Z	0	.5
15	MP3A	Mx	0	.5
16	MP3A	X	0	4
17	MP3A	Z	0	4
18	MP3A	Mx	0	4
19	MP4A	X	0	.5
20	MP4A	Z	0	.5
21	MP4A	Mx	0	.5
22	MP4A	X	0	4
23	MP4A	Z	0	4
24	MP4A	Mx	0	4
25	MP2A	X	0	4.5
26	MP2A	Z	0	4.5
27	MP2A	Mx	0	4.5
28	MP2A	X	0	5.5
29	MP2A	Z	0	5.5
30	MP2A	Mx	0	5.5
31	MP2A	X	0	4.5
32	MP2A	Z	0	4.5
33	MP2A	Mx	0	4.5
34	MP2A	X	0	5.5
35	MP2A	Z	0	5.5
36	MP2A	Mx	0	5.5

Member Point Loads (BLC 37 : Antenna Wm (300 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	.5
2	MP1A	Z	0	.5

: Colliers Engineering & Design

Nov 14, 2023 1:09 PM Checked By:_

: Mount Analysis

Member Point Loads (BLC 37 : Antenna Wm (300 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
3	MP1A	Mx	0	.5
4	MP1A	X	0	4
5	MP1A	Z	0	4
6	MP1A	Mx	0	4
7	MP2A	X	0	.5
8	MP2A	Z	0	.5
9	MP2A	Mx	0	.5
10	MP2A	X	0	4
11	MP2A	Z	0	4
12	MP2A	Mx	0	4
13	MP3A	X	0	.5
14	MP3A	Z	0	.5
15	MP3A	Mx	0	.5
16	MP3A	X	0	4
17	MP3A	Z	0	4
18	MP3A	Mx	0	4
19	MP4A	X	0	.5
20	MP4A	Z	0	.5
21	MP4A	Mx	0	.5
22	MP4A	X	0	4
23	MP4A	Z	0	4
24	MP4A	Mx	0	4
25	MP2A	X	0	4.5
26	MP2A	Z	0	4.5
27	MP2A	Mx	0	4.5
28	MP2A	X	0	5.5
29	MP2A	Z	0	5.5
30	MP2A	Mx	0	5.5
31	MP2A	X	0	4.5
32	MP2A	Z	0	4.5
33	MP2A	Mx	0	4.5
34	MP2A	X	0	5.5
35	MP2A	Z	0	5.5
36	MP2A	Mx	0	5.5

Member Point Loads (BLC 38 : Antenna Wm (330 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	.5
2	MP1A	Z	0	.5
3	MP1A	Mx	0	.5
4	MP1A	X	0	4
5	MP1A	Z	0	4
6	MP1A	Mx	0	4
7	MP2A	X	0	.5
8	MP2A	Z	0	.5
9	MP2A	Mx	0	.5
10	MP2A	X	0	4
11	MP2A	Z	0	4
12	MP2A	Mx	0	4
13	MP3A	X	0	.5
14	MP3A	Z	0	.5
15	MP3A	Mx	0	.5
16	MP3A	X	0	4
17	MP3A	Z	0	4
18	MP3A	Mx	0	4
19	MP4A	X	0	.5
20	MP4A	Z	0	.5
21	MP4A	Mx	0	.5



Company Designer Job Number : Colliers Engineering & Design

Nov 14, 2023 1:09 PM Checked By:_

: Mount Analysis

Member Point Loads (BLC 38 : Antenna Wm (330 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
22	MP4A	X	0	4
23	MP4A	Z	0	4
24	MP4A	Mx	0	4
25	MP2A	X	0	4.5
26	MP2A	Z	0	4.5
27	MP2A	Mx	0	4.5
28	MP2A	X	0	5.5
29	MP2A	Z	0	5.5
30	MP2A	Mx	0	5.5
31	MP2A	X	0	4.5
32	MP2A	Z	0	4.5
33	MP2A	Mx	0	4.5
34	MP2A	X	0	5.5
35	MP2A	Z	0	5.5
36	MP2A	Mx	0	5.5

Member Point Loads (BLC 77 : Lm1)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	LIVE1	Υ	0	0

Member Point Loads (BLC 78 : Lm2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	LIVE2	Υ	0	0

Member Point Loads (BLC 79 : Lv1)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	FACE2	Y	0	%50

Member Point Loads (BLC 80 : Lv2)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	FACE3	Y	0	%100

Member Point Loads (BLC 81 : Antenna Ev)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	Υ	862	.5
2	MP1A	My	000431	.5
3	MP1A	Mz	0	.5
4	MP1A	Υ	862	4
5	MP1A	My	000431	4
6	MP1A	Mz	0	4
7	MP2A	Υ	862	.5
8	MP2A	My	000431	.5
9	MP2A	Mz	0	.5
10	MP2A	Υ	862	4
11	MP2A	My	000431	4
12	MP2A	Mz	0	4
13	MP3A	Υ	862	.5
14	MP3A	My	000431	.5
15	MP3A	Mz	0	.5
16	MP3A	Υ	862	4
17	MP3A	My	000431	4
18	MP3A	Mz	0	4
19	MP4A	Υ	862	.5
20	MP4A	My	000431	.5
21	MP4A	Mz	0	.5
22	MP4A	Υ	862	4

: Colliers Engineering & Design

: Mount Analysis

Nov 14, 2023 1:09 PM Checked By:_

Member Point Loads (BLC 81 : Antenna Ev) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
23	MP4A	My	000431	4
24	MP4A	Mz	0	4
25	MP2A	Υ	374	4.5
26	MP2A	My	.000374	4.5
27	MP2A	Mz	.000125	4.5
28	MP2A	Υ	374	5.5
29	MP2A	My	.000374	5.5
30	MP2A	Mz	.000125	5.5
31	MP2A	Υ	374	4.5
32	MP2A	My	.000374	4.5
33	MP2A	Mz	000125	4.5
34	MP2A	Υ	374	5.5
35	MP2A	My	.000374	5.5
36	MP2A	Mz	000125	5.5

Member Point Loads (BLC 82 : Antenna Eh (0 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	Z	-2.155	.5
2	MP1A	Mx	0	.5
3	MP1A	Z	-2.155	4
4	MP1A	Mx	0	4
5	MP2A	Z	-2.155	.5
6	MP2A	Mx	0	.5
7	MP2A	Z	-2.155	4
8	MP2A	Mx	0	4
9	MP3A	Z	-2.155	.5
10	MP3A	Mx	0	.5
11	MP3A	Z	-2.155	4
12	MP3A	Mx	0	4
13	MP4A	Z	-2.155	.5
14	MP4A	Mx	0	.5
15	MP4A	Z	-2.155	4
16	MP4A	Mx	0	4
17	MP2A	Z	934	4.5
18	MP2A	Mx	000311	4.5
19	MP2A	Z	934	5.5
20	MP2A	Mx	000311	5.5
21	MP2A	Z	934	4.5
22	MP2A	Mx	.000311	4.5
23	MP2A	Z	934	5.5
24	MP2A	Mx	.000311	5.5

Member Point Loads (BLC 83 : Antenna Eh (90 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	2.155	.5
2	MP1A	Mx	001	.5
3	MP1A	X	2.155	4
4	MP1A	Mx	001	4
5	MP2A	X	2.155	.5
6	MP2A	Mx	001	.5
7	MP2A	X	2.155	4
8	MP2A	Mx	001	4
9	MP3A	X	2.155	.5
10	MP3A	Mx	001	.5
11	MP3A	X	2.155	4
12	MP3A	Mx	001	4
13	MP4A	X	2.155	.5
14	MP4A	Mx	001	.5



: Colliers Engineering & Design

Nov 14, 2023 1:09 PM Checked By:_

: Mount Analysis

Member Point Loads (BLC 83 : Antenna Eh (90 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
15	MP4A	X	2.155	4
16	MP4A	Mx	001	4
17	MP2A	X	.934	4.5
18	MP2A	Mx	.000934	4.5
19	MP2A	X	.934	5.5
20	MP2A	Mx	.000934	5.5
21	MP2A	X	.934	4.5
22	MP2A	Mx	.000934	4.5
23	MP2A	X	.934	5.5
24	MP2A	Mx	.000934	5.5

Member Distributed Loads (BLC 41 : Structure Wo (0 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft	.End Location[ft,
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	FACE2	X	0	0	0	%100
6	FACE2	Z	0	0	0	%100
7	FACE3	X	0	0	0	%100
8	FACE3	Z	0	0	0	%100
9	MP2A	X	0	0	0	%100
10	MP2A	Z	0	0	0	%100
11	MP3A	X	0	0	0	%100
12	MP3A	Z	0	0	0	%100
13	MP1A	X	0	0	0	%100
14	MP1A	Z	0	0	0	%100
15	M14	X	0	0	0	%100
16	M14	Z	0	0	0	%100
17	FACE1	X	0	0	0	%100
18	FACE1	Z	0	0	0	%100
19	MP4A	X	0	0	0	%100
20	MP4A	Z	0	0	0	%100

Member Distributed Loads (BLC 42 : Structure Wo (30 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft	.End Location[ft,
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	FACE2	X	0	0	0	%100
6	FACE2	Z	0	0	0	%100
7	FACE3	X	0	0	0	%100
8	FACE3	Z	0	0	0	%100
9	MP2A	X	0	0	0	%100
10	MP2A	Z	0	0	0	%100
11	MP3A	X	0	0	0	%100
12	MP3A	Z	0	0	0	%100
13	MP1A	X	0	0	0	%100
14	MP1A	Z	0	0	0	%100
15	M14	X	0	0	0	%100
16	M14	Z	0	0	0	%100
17	FACE1	X	0	0	0	%100
18	FACE1	Z	0	0	0	%100
19	MP4A	X	0	0	0	%100
20	MP4A	Z	0	0	0	%100

: Colliers Engineering & Design

: Mount Analysis

Nov 14, 2023 1:09 PM Checked By:_

Member Distributed Loads (BLC 43 : Structure Wo (60 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft	.End Location[ft,
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	FACE2	X	0	0	0	%100
6	FACE2	Z	0	0	0	%100
7	FACE3	X	0	0	0	%100
8	FACE3	Z	0	0	0	%100
9	MP2A	X	0	0	0	%100
10	MP2A	Z	0	0	0	%100
11	MP3A	X	0	0	0	%100
12	MP3A	Z	0	0	0	%100
13	MP1A	X	0	0	0	%100
14	MP1A	Z	0	0	0	%100
15	M14	X	0	0	0	%100
16	M14	Z	0	0	0	%100
17	FACE1	X	0	0	0	%100
18	FACE1	Z	0	0	0	%100
19	MP4A	X	0	0	0	%100
20	MP4A	Z	0	0	0	%100

Member Distributed Loads (BLC 44 : Structure Wo (90 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft	End Location[ft,
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	FACE2	X	0	0	0	%100
6	FACE2	Z	0	0	0	%100
7	FACE3	X	0	0	0	%100
8	FACE3	Z	0	0	0	%100
9	MP2A	X	0	0	0	%100
10	MP2A	Z	0	0	0	%100
11	MP3A	X	0	0	0	%100
12	MP3A	Z	0	0	0	%100
13	MP1A	X	0	0	0	%100
14	MP1A	Z	0	0	0	%100
15	M14	X	0	0	0	%100
16	M14	Z	0	0	0	%100
17	FACE1	X	0	0	0	%100
18	FACE1	Z	0	0	0	%100
19	MP4A	X	0	0	0	%100
20	MP4A	Z	0	0	0	%100

Member Distributed Loads (BLC 45 : Structure Wo (120 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft	End Location[ft,
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	Х	0	0	0	%100
4	M2	Z	0	0	0	%100
5	FACE2	X	0	0	0	%100
6	FACE2	Z	0	0	0	%100
7	FACE3	X	0	0	0	%100
8	FACE3	Z	0	0	0	%100
9	MP2A	X	0	0	0	%100
10	MP2A	Z	0	0	0	%100
11	MP3A	X	0	0	0	%100
12	MP3A	Z	0	0	0	%100

: Colliers Engineering & Design

: Mount Analysis

Nov 14, 2023 1:09 PM Checked By:_

Member Distributed Loads (BLC 45: Structure Wo (120 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft	End Location[ft,
13	MP1A	X	0	0	0	%100
14	MP1A	Z	0	0	0	%100
15	M14	X	0	0	0	%100
16	M14	Z	0	0	0	%100
17	FACE1	X	0	0	0	%100
18	FACE1	Z	0	0	0	%100
19	MP4A	X	0	0	0	%100
20	MP4A	Z	0	0	0	%100

Member Distributed Loads (BLC 46: Structure Wo (150 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft	.End Location[ft,
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	FACE2	X	0	0	0	%100
6	FACE2	Z	0	0	0	%100
7	FACE3	X	0	0	0	%100
8	FACE3	Z	0	0	0	%100
9	MP2A	X	0	0	0	%100
10	MP2A	Z	0	0	0	%100
11	MP3A	X	0	0	0	%100
12	MP3A	Z	0	0	0	%100
13	MP1A	X	0	0	0	%100
14	MP1A	Z	0	0	0	%100
15	M14	X	0	0	0	%100
16	M14	Z	0	0	0	%100
17	FACE1	X	0	0	0	%100
18	FACE1	Z	0	0	0	%100
19	MP4A	X	0	0	0	%100
20	MP4A	Z	0	0	0	%100

Member Distributed Loads (BLC 47 : Structure Wo (180 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft	.End Location[ft,
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	FACE2	X	0	0	0	%100
6	FACE2	Z	0	0	0	%100
7	FACE3	X	0	0	0	%100
8	FACE3	Z	0	0	0	%100
9	MP2A	X	0	0	0	%100
10	MP2A	Z	0	0	0	%100
11	MP3A	X	0	0	0	%100
12	MP3A	Z	0	0	0	%100
13	MP1A	X	0	0	0	%100
14	MP1A	Z	0	0	0	%100
15	M14	X	0	0	0	%100
16	M14	Z	0	0	0	%100
17	FACE1	X	0	0	0	%100
18	FACE1	Z	0	0	0	%100
19	MP4A	X	0	0	0	%100
20	MP4A	Z	0	0	0	%100

Member Distributed Loads (BLC 48 : Structure Wo (210 Deg))

Member Label Direction Start Magnitude[lb/ft,F,ksf] End Magnitude[lb/ft,F,ksf] Start Location[ft...End Location[ft,... : Colliers Engineering & Design

: Mount Analysis

Nov 14, 2023 1:09 PM Checked By:_

Member Distributed Loads (BLC 48: Structure Wo (210 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft	End Location[ft,
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	FACE2	X	0	0	0	%100
6	FACE2	Z	0	0	0	%100
7	FACE3	X	0	0	0	%100
8	FACE3	Z	0	0	0	%100
9	MP2A	X	0	0	0	%100
10	MP2A	Z	0	0	0	%100
11	MP3A	X	0	0	0	%100
12	MP3A	Z	0	0	0	%100
13	MP1A	X	0	0	0	%100
14	MP1A	Z	0	0	0	%100
15	M14	X	0	0	0	%100
16	M14	Z	0	0	0	%100
17	FACE1	X	0	0	0	%100
18	FACE1	Z	0	0	0	%100
19	MP4A	X	0	0	0	%100
20	MP4A	Z	0	0	0	%100

Member Distributed Loads (BLC 49 : Structure Wo (240 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft	End Location[ft,
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	FACE2	X	0	0	0	%100
6	FACE2	Z	0	0	0	%100
7	FACE3	X	0	0	0	%100
8	FACE3	Z	0	0	0	%100
9	MP2A	X	0	0	0	%100
10	MP2A	Z	0	0	0	%100
11	MP3A	X	0	0	0	%100
12	MP3A	Z	0	0	0	%100
13	MP1A	X	0	0	0	%100
14	MP1A	Z	0	0	0	%100
15	M14	X	0	0	0	%100
16	M14	Z	0	0	0	%100
17	FACE1	X	0	0	0	%100
18	FACE1	Z	0	0	0	%100
19	MP4A	X	0	0	0	%100
20	MP4A	Z	0	0	0	%100

Member Distributed Loads (BLC 50 : Structure Wo (270 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft	End Location[ft,
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	Х	0	0	0	%100
4	M2	Z	0	0	0	%100
5	FACE2	X	0	0	0	%100
6	FACE2	Z	0	0	0	%100
7	FACE3	X	0	0	0	%100
8	FACE3	Z	0	0	0	%100
9	MP2A	X	0	0	0	%100
10	MP2A	Z	0	0	0	%100
11	MP3A	X	0	0	0	%100
12	MP3A	Z	0	0	0	%100

: Colliers Engineering & Design

: Mount Analysis

Nov 14, 2023 1:09 PM Checked By:__

Member Distributed Loads (BLC 50: Structure Wo (270 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft	End Location[ft,
13	MP1A	X	0	0	0	%100
14	MP1A	Z	0	0	0	%100
15	M14	X	0	0	0	%100
16	M14	Z	0	0	0	%100
17	FACE1	Х	0	0	0	%100
18	FACE1	Z	0	0	0	%100
19	MP4A	X	0	0	0	%100
20	MP4A	7	0	0	0	%100

Member Distributed Loads (BLC 51: Structure Wo (300 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft	End Location[ft,
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	FACE2	X	0	0	0	%100
6	FACE2	Z	0	0	0	%100
7	FACE3	X	0	0	0	%100
8	FACE3	Z	0	0	0	%100
9	MP2A	X	0	0	0	%100
10	MP2A	Z	0	0	0	%100
11	MP3A	X	0	0	0	%100
12	MP3A	Z	0	0	0	%100
13	MP1A	X	0	0	0	%100
14	MP1A	Z	0	0	0	%100
15	M14	X	0	0	0	%100
16	M14	Z	0	0	0	%100
17	FACE1	X	0	0	0	%100
18	FACE1	Z	0	0	0	%100
19	MP4A	X	0	0	0	%100
20	MP4A	Z	0	0	0	%100

Member Distributed Loads (BLC 52 : Structure Wo (330 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft	.End Location[ft,
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	FACE2	X	0	0	0	%100
6	FACE2	Z	0	0	0	%100
7	FACE3	X	0	0	0	%100
8	FACE3	Z	0	0	0	%100
9	MP2A	X	0	0	0	%100
10	MP2A	Z	0	0	0	%100
11	MP3A	X	0	0	0	%100
12	MP3A	Z	0	0	0	%100
13	MP1A	X	0	0	0	%100
14	MP1A	Z	0	0	0	%100
15	M14	X	0	0	0	%100
16	M14	Z	0	0	0	%100
17	FACE1	X	0	0	0	%100
18	FACE1	Z	0	0	0	%100
19	MP4A	X	0	0	0	%100
20	MP4A	Z	0	0	0	%100

Member Distributed Loads (BLC 53 : Structure Wi (0 Deg))

Member Label Direction Start Magnitude[lb/ft,F,ksf] End Magnitude[lb/ft,F,ksf] Start Location[ft...End Location[ft,...

: Colliers Engineering & Design

Nov 14, 2023 1:09 PM Checked By:_

: Mount Analysis

Member Distributed Loads (BLC 53 : Structure Wi (0 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft	End Location[ft,
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	FACE2	X	0	0	0	%100
6	FACE2	Z	0	0	0	%100
7	FACE3	X	0	0	0	%100
8	FACE3	Z	0	0	0	%100
9	MP2A	X	0	0	0	%100
10	MP2A	Z	0	0	0	%100
11	MP3A	X	0	0	0	%100
12	MP3A	Z	0	0	0	%100
13	MP1A	X	0	0	0	%100
14	MP1A	Z	0	0	0	%100
15	M14	X	0	0	0	%100
16	M14	Z	0	0	0	%100
17	FACE1	X	0	0	0	%100
18	FACE1	Z	0	0	0	%100
19	MP4A	X	0	0	0	%100
20	MP4A	Z	0	0	0	%100

Member Distributed Loads (BLC 54 : Structure Wi (30 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft	End Location[ft,
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	FACE2	X	0	0	0	%100
6	FACE2	Z	0	0	0	%100
7	FACE3	X	0	0	0	%100
8	FACE3	Z	0	0	0	%100
9	MP2A	X	0	0	0	%100
10	MP2A	Z	0	0	0	%100
11	MP3A	X	0	0	0	%100
12	MP3A	Z	0	0	0	%100
13	MP1A	X	0	0	0	%100
14	MP1A	Z	0	0	0	%100
15	M14	X	0	0	0	%100
16	M14	Z	0	0	0	%100
17	FACE1	X	0	0	0	%100
18	FACE1	Z	0	0	0	%100
19	MP4A	X	0	0	0	%100
20	MP4A	Z	0	0	0	%100

Member Distributed Loads (BLC 55 : Structure Wi (60 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft	End Location[ft,
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	FACE2	X	0	0	0	%100
6	FACE2	Z	0	0	0	%100
7	FACE3	X	0	0	0	%100
8	FACE3	Z	0	0	0	%100
9	MP2A	X	0	0	0	%100
10	MP2A	Z	0	0	0	%100
11	MP3A	X	0	0	0	%100
12	MP3A	Z	0	0	0	%100

: Colliers Engineering & Design

Nov 14, 2023 1:09 PM Checked By:_

: Mount Analysis

Member Distributed Loads (BLC 55: Structure Wi (60 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft	End Location[ft,
13	MP1A	X	0	0	0	%100
14	MP1A	Z	0	0	0	%100
15	M14	X	0	0	0	%100
16	M14	Z	0	0	0	%100
17	FACE1	X	0	0	0	%100
18	FACE1	Z	0	0	0	%100
19	MP4A	X	0	0	0	%100
20	MP4A	Z	0	0	0	%100

Member Distributed Loads (BLC 56: Structure Wi (90 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft	End Location[ft,
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	FACE2	X	0	0	0	%100
6	FACE2	Z	0	0	0	%100
7	FACE3	X	0	0	0	%100
8	FACE3	Z	0	0	0	%100
9	MP2A	X	0	0	0	%100
10	MP2A	Z	0	0	0	%100
11	MP3A	X	0	0	0	%100
12	MP3A	Z	0	0	0	%100
13	MP1A	X	0	0	0	%100
14	MP1A	Z	0	0	0	%100
15	M14	X	0	0	0	%100
16	M14	Z	0	0	0	%100
17	FACE1	X	0	0	0	%100
18	FACE1	Z	0	0	0	%100
19	MP4A	X	0	0	0	%100
20	MP4A	Z	0	0	0	%100

Member Distributed Loads (BLC 57 : Structure Wi (120 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft	.End Location[ft,
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	FACE2	X	0	0	0	%100
6	FACE2	Z	0	0	0	%100
7	FACE3	X	0	0	0	%100
8	FACE3	Z	0	0	0	%100
9	MP2A	X	0	0	0	%100
10	MP2A	Z	0	0	0	%100
11	MP3A	X	0	0	0	%100
12	MP3A	Z	0	0	0	%100
13	MP1A	X	0	0	0	%100
14	MP1A	Z	0	0	0	%100
15	M14	X	0	0	0	%100
16	M14	Z	0	0	0	%100
17	FACE1	X	0	0	0	%100
18	FACE1	Z	0	0	0	%100
19	MP4A	X	0	0	0	%100
20	MP4A	Z	0	0	0	%100

Member Distributed Loads (BLC 58 : Structure Wi (150 Deg))

Member Label Direction Start Magnitude[lb/ft,F,ksf] End Magnitude[lb/ft,F,ksf] Start Location[ft...End Location[ft,...

: Colliers Engineering & Design

: Mount Analysis

Nov 14, 2023 1:09 PM Checked By:_

Member Distributed Loads (BLC 58: Structure Wi (150 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft	.End Location[ft,
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	FACE2	X	0	0	0	%100
6	FACE2	Z	0	0	0	%100
7	FACE3	X	0	0	0	%100
8	FACE3	Z	0	0	0	%100
9	MP2A	X	0	0	0	%100
10	MP2A	Z	0	0	0	%100
11	MP3A	X	0	0	0	%100
12	MP3A	Z	0	0	0	%100
13	MP1A	X	0	0	0	%100
14	MP1A	Z	0	0	0	%100
15	M14	X	0	0	0	%100
16	M14	Z	0	0	0	%100
17	FACE1	X	0	0	0	%100
18	FACE1	Z	0	0	0	%100
19	MP4A	X	0	Ō	0	%100
20	MP4A	Z	0	0	0	%100

Member Distributed Loads (BLC 59 : Structure Wi (180 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft	.End Location[ft,
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	FACE2	X	0	0	0	%100
6	FACE2	Z	0	0	0	%100
7	FACE3	X	0	0	0	%100
8	FACE3	Z	0	0	0	%100
9	MP2A	X	0	0	0	%100
10	MP2A	Z	0	0	0	%100
11	MP3A	X	0	0	0	%100
12	MP3A	Z	0	0	0	%100
13	MP1A	X	0	0	0	%100
14	MP1A	Z	0	0	0	%100
15	M14	X	0	0	0	%100
16	M14	Z	0	0	0	%100
17	FACE1	X	0	0	0	%100
18	FACE1	Z	0	0	0	%100
19	MP4A	X	0	0	0	%100
20	MP4A	Z	0	0	0	%100

Member Distributed Loads (BLC 60 : Structure Wi (210 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft	End Location[ft,
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	FACE2	X	0	0	0	%100
6	FACE2	Z	0	0	0	%100
7	FACE3	X	0	0	0	%100
8	FACE3	Z	0	0	0	%100
9	MP2A	X	0	0	0	%100
10	MP2A	Z	0	0	0	%100
11	MP3A	X	0	0	0	%100
12	MP3A	Z	0	0	0	%100

: Colliers Engineering & Design

Nov 14, 2023 1:09 PM Checked By:_

: Mount Analysis

Member Distributed Loads (BLC 60 : Structure Wi (210 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft	End Location[ft,
13	MP1A	X	0	0	0	%100
14	MP1A	Z	0	0	0	%100
15	M14	X	0	0	0	%100
16	M14	Z	0	0	0	%100
17	FACE1	X	0	0	0	%100
18	FACE1	Z	0	0	0	%100
19	MP4A	X	0	0	0	%100
20	MP4A	Z	0	0	0	%100

Member Distributed Loads (BLC 61 : Structure Wi (240 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft	End Location[ft,
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	FACE2	X	0	0	0	%100
6	FACE2	Z	0	0	0	%100
7	FACE3	X	0	0	0	%100
8	FACE3	Z	0	0	0	%100
9	MP2A	X	0	0	0	%100
10	MP2A	Z	0	0	0	%100
11	MP3A	X	0	0	0	%100
12	MP3A	Z	0	0	0	%100
13	MP1A	X	0	0	0	%100
14	MP1A	Z	0	0	0	%100
15	M14	X	0	0	0	%100
16	M14	Z	0	0	0	%100
17	FACE1	X	0	0	0	%100
18	FACE1	Z	0	0	0	%100
19	MP4A	X	0	0	0	%100
20	MP4A	Z	0	0	0	%100

Member Distributed Loads (BLC 62 : Structure Wi (270 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft	End Location[ft,
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	FACE2	X	0	0	0	%100
6	FACE2	Z	0	0	0	%100
7	FACE3	X	0	0	0	%100
8	FACE3	Z	0	0	0	%100
9	MP2A	X	0	0	0	%100
10	MP2A	Z	0	0	0	%100
11	MP3A	X	0	0	0	%100
12	MP3A	Z	0	0	0	%100
13	MP1A	X	0	0	0	%100
14	MP1A	Z	0	0	0	%100
15	M14	X	0	0	0	%100
16	M14	Z	0	0	0	%100
17	FACE1	X	0	0	0	%100
18	FACE1	Z	0	0	0	%100
19	MP4A	X	0	0	0	%100
20	MP4A	Z	0	0	0	%100

Member Distributed Loads (BLC 63 : Structure Wi (300 Deg))

Member Label Direction Start Magnitude[lb/ft,F,ksf] End Magnitude[lb/ft,F,ksf] Start Location[ft...End Location[ft,...

: Colliers Engineering & Design

: Mount Analysis

Nov 14, 2023 1:09 PM Checked By:_

Member Distributed Loads (BLC 63: Structure Wi (300 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft	End Location[ft,
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	FACE2	X	0	0	0	%100
6	FACE2	Z	0	0	0	%100
7	FACE3	X	0	0	0	%100
8	FACE3	Z	0	0	0	%100
9	MP2A	X	0	0	0	%100
10	MP2A	Z	0	0	0	%100
11	MP3A	X	0	0	0	%100
12	MP3A	Z	0	0	0	%100
13	MP1A	X	0	0	0	%100
14	MP1A	Z	0	0	0	%100
15	M14	X	0	0	0	%100
16	M14	Z	0	0	0	%100
17	FACE1	X	0	0	0	%100
18	FACE1	Z	0	0	0	%100
19	MP4A	X	0	0	0	%100
20	MP4A	Z	0	0	0	%100

Member Distributed Loads (BLC 64 : Structure Wi (330 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft	.End Location[ft,
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	FACE2	X	0	0	0	%100
6	FACE2	Z	0	0	0	%100
7	FACE3	X	0	0	0	%100
8	FACE3	Z	0	0	0	%100
9	MP2A	X	0	0	0	%100
10	MP2A	Z	0	0	0	%100
11	MP3A	X	0	0	0	%100
12	MP3A	Z	0	0	0	%100
13	MP1A	X	0	0	0	%100
14	MP1A	Z	0	0	0	%100
15	M14	X	0	0	0	%100
16	M14	Z	0	0	0	%100
17	FACE1	X	0	0	0	%100
18	FACE1	Z	0	0	0	%100
19	MP4A	X	0	0	0	%100
20	MP4A	Z	0	0	0	%100

Member Distributed Loads (BLC 65 : Structure Wm (0 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft	End Location[ft,
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	FACE2	X	0	0	0	%100
6	FACE2	Z	0	0	0	%100
7	FACE3	X	0	0	0	%100
8	FACE3	Z	0	0	0	%100
9	MP2A	X	0	0	0	%100
10	MP2A	Z	0	0	0	%100
11	MP3A	X	0	0	0	%100
12	MP3A	Z	0	0	0	%100

: Colliers Engineering & Design

: Mount Analysis

Nov 14, 2023 1:09 PM Checked By:_

Member Distributed Loads (BLC 65 : Structure Wm (0 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft	End Location[ft,
13	MP1A	X	0	0	0	%100
14	MP1A	Z	0	0	0	%100
15	M14	X	0	0	0	%100
16	M14	Z	0	0	0	%100
17	FACE1	X	0	0	0	%100
18	FACE1	Z	0	0	0	%100
19	MP4A	X	0	0	0	%100
20	MP4A	Z	0	0	0	%100

Member Distributed Loads (BLC 66 : Structure Wm (30 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft	.End Location[ft,
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	FACE2	X	0	0	0	%100
6	FACE2	Z	0	0	0	%100
7	FACE3	X	0	0	0	%100
8	FACE3	Z	0	0	0	%100
9	MP2A	X	0	0	0	%100
10	MP2A	Z	0	0	0	%100
11	MP3A	X	0	0	0	%100
12	MP3A	Z	0	0	0	%100
13	MP1A	X	0	0	0	%100
14	MP1A	Z	0	0	0	%100
15	M14	X	0	0	0	%100
16	M14	Z	0	0	0	%100
17	FACE1	X	0	0	0	%100
18	FACE1	Z	0	0	0	%100
19	MP4A	X	0	0	0	%100
20	MP4A	Z	0	0	0	%100

Member Distributed Loads (BLC 67 : Structure Wm (60 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft	.End Location[ft,
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	FACE2	X	0	0	0	%100
6	FACE2	Z	0	0	0	%100
7	FACE3	X	0	0	0	%100
8	FACE3	Z	0	0	0	%100
9	MP2A	X	0	0	0	%100
10	MP2A	Z	0	0	0	%100
11	MP3A	X	0	0	0	%100
12	MP3A	Z	0	0	0	%100
13	MP1A	X	0	0	0	%100
14	MP1A	Z	0	0	0	%100
15	M14	X	0	0	0	%100
16	M14	Z	0	0	0	%100
17	FACE1	X	0	0	0	%100
18	FACE1	Z	0	0	0	%100
19	MP4A	X	0	0	0	%100
20	MP4A	Z	0	0	0	%100

Member Distributed Loads (BLC 68 : Structure Wm (90 Deg))

Member Label Direction Start Magnitude[lb/ft,F,ksf] End Magnitude[lb/ft,F,ksf] Start Location[ft...End Location[ft,...

: Colliers Engineering & Design

: Mount Analysis

Nov 14, 2023 1:09 PM Checked By:_

Member Distributed Loads (BLC 68 : Structure Wm (90 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft	.End Location[ft,
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	FACE2	X	0	0	0	%100
6	FACE2	Z	0	0	0	%100
7	FACE3	X	0	0	0	%100
8	FACE3	Z	0	0	0	%100
9	MP2A	X	0	0	0	%100
10	MP2A	Z	0	0	0	%100
11	MP3A	X	0	0	0	%100
12	MP3A	Z	0	0	0	%100
13	MP1A	X	0	0	0	%100
14	MP1A	Z	0	0	0	%100
15	M14	X	0	0	0	%100
16	M14	Z	0	0	0	%100
17	FACE1	X	0	0	0	%100
18	FACE1	Z	0	0	0	%100
19	MP4A	X	0	0	0	%100
20	MP4A	Z	0	0	0	%100

Member Distributed Loads (BLC 69 : Structure Wm (120 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft	.End Location[ft,
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	FACE2	X	0	0	0	%100
6	FACE2	Z	0	0	0	%100
7	FACE3	X	0	0	0	%100
8	FACE3	Z	0	0	0	%100
9	MP2A	X	0	0	0	%100
10	MP2A	Z	0	0	0	%100
11	MP3A	X	0	0	0	%100
12	MP3A	Z	0	0	0	%100
13	MP1A	X	0	0	0	%100
14	MP1A	Z	0	0	0	%100
15	M14	X	0	0	0	%100
16	M14	Z	0	0	0	%100
17	FACE1	X	0	0	0	%100
18	FACE1	Z	0	0	0	%100
19	MP4A	X	0	0	0	%100
20	MP4A	Z	0	0	0	%100

Member Distributed Loads (BLC 70 : Structure Wm (150 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft	.End Location[ft,
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	FACE2	X	0	0	0	%100
6	FACE2	Z	0	0	0	%100
7	FACE3	X	0	0	0	%100
8	FACE3	Z	0	0	0	%100
9	MP2A	X	0	0	0	%100
10	MP2A	Z	0	0	0	%100
11	MP3A	X	0	0	0	%100
12	MP3A	Z	0	0	0	%100

: Colliers Engineering & Design

Nov 14, 2023 1:09 PM Checked By:_

: Mount Analysis

Member Distributed Loads (BLC 70 : Structure Wm (150 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft	End Location[ft,
13	MP1A	X	0	0	0	%100
14	MP1A	Z	0	0	0	%100
15	M14	X	0	0	0	%100
16	M14	Z	0	0	0	%100
17	FACE1	X	0	0	0	%100
18	FACE1	Z	0	0	0	%100
19	MP4A	X	0	0	0	%100
20	MP4A	Z	0	0	0	%100

Member Distributed Loads (BLC 71: Structure Wm (180 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft	.End Location[ft,
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	FACE2	X	0	0	0	%100
6	FACE2	Z	0	0	0	%100
7	FACE3	X	0	0	0	%100
8	FACE3	Z	0	0	0	%100
9	MP2A	X	0	0	0	%100
10	MP2A	Z	0	0	0	%100
11	MP3A	X	0	0	0	%100
12	MP3A	Z	0	0	0	%100
13	MP1A	X	0	0	0	%100
14	MP1A	Z	0	0	0	%100
15	M14	X	0	0	0	%100
16	M14	Z	0	0	0	%100
17	FACE1	X	0	0	0	%100
18	FACE1	Z	0	0	0	%100
19	MP4A	X	0	0	0	%100
20	MP4A	Z	0	0	0	%100

Member Distributed Loads (BLC 72 : Structure Wm (210 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft	.End Location[ft,
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	FACE2	X	0	0	0	%100
6	FACE2	Z	0	0	0	%100
7	FACE3	X	0	0	0	%100
8	FACE3	Z	0	0	0	%100
9	MP2A	X	0	0	0	%100
10	MP2A	Z	0	0	0	%100
11	MP3A	X	0	0	0	%100
12	MP3A	Z	0	0	0	%100
13	MP1A	X	0	0	0	%100
14	MP1A	Z	0	0	0	%100
15	M14	X	0	0	0	%100
16	M14	Z	0	0	0	%100
17	FACE1	X	0	0	0	%100
18	FACE1	Z	0	0	0	%100
19	MP4A	X	0	0	0	%100
20	MP4A	Z	0	0	0	%100

Member Distributed Loads (BLC 73 : Structure Wm (240 Deg))

Member Label Direction Start Magnitude[lb/ft,F,ksf] End Magnitude[lb/ft,F,ksf] Start Location[ft...End Location[ft,...

: Colliers Engineering & Design

: Mount Analysis

Nov 14, 2023 1:09 PM Checked By:_

Member Distributed Loads (BLC 73 : Structure Wm (240 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft	End Location[ft,
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	FACE2	X	0	0	0	%100
6	FACE2	Z	0	0	0	%100
7	FACE3	X	0	0	0	%100
8	FACE3	Z	0	0	0	%100
9	MP2A	X	0	0	0	%100
10	MP2A	Z	0	0	0	%100
11	MP3A	X	0	0	0	%100
12	MP3A	Z	0	0	0	%100
13	MP1A	X	0	0	0	%100
14	MP1A	Z	0	0	0	%100
15	M14	X	0	0	0	%100
16	M14	Z	0	0	0	%100
17	FACE1	X	0	0	0	%100
18	FACE1	Z	0	0	0	%100
19	MP4A	X	0	0	0	%100
20	MP4A	Z	0	0	0	%100

Member Distributed Loads (BLC 74 : Structure Wm (270 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft	.End Location[ft,
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	FACE2	X	0	0	0	%100
6	FACE2	Z	0	0	0	%100
7	FACE3	X	0	0	0	%100
8	FACE3	Z	0	0	0	%100
9	MP2A	X	0	0	0	%100
10	MP2A	Z	0	0	0	%100
11	MP3A	X	0	0	0	%100
12	MP3A	Z	0	0	0	%100
13	MP1A	X	0	0	0	%100
14	MP1A	Z	0	0	0	%100
15	M14	X	0	0	0	%100
16	M14	Z	0	0	0	%100
17	FACE1	X	0	0	0	%100
18	FACE1	Z	0	0	0	%100
19	MP4A	X	0	0	0	%100
20	MP4A	Z	0	0	0	%100

Member Distributed Loads (BLC 75 : Structure Wm (300 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft	.End Location[ft,
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	FACE2	X	0	0	0	%100
6	FACE2	Z	0	0	0	%100
7	FACE3	X	0	0	0	%100
8	FACE3	Z	0	0	0	%100
9	MP2A	X	0	0	0	%100
10	MP2A	Z	0	0	0	%100
11	MP3A	X	0	0	0	%100
12	MP3A	Z	0	0	0	%100



: Colliers Engineering & Design

Nov 14, 2023 1:09 PM Checked By:_

: Mount Analysis

Member Distributed Loads (BLC 75 : Structure Wm (300 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft	End Location[ft,
13	MP1A	X	0	0	0	%100
14	MP1A	Z	0	0	0	%100
15	M14	X	0	0	0	%100
16	M14	Z	0	0	0	%100
17	FACE1	X	0	0	0	%100
18	FACE1	Z	0	0	0	%100
19	MP4A	X	0	0	0	%100
20	MP4A	Z	0	0	0	%100

Member Distributed Loads (BLC 76 : Structure Wm (330 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft	End Location[ft,
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	FACE2	X	0	0	0	%100
6	FACE2	Z	0	0	0	%100
7	FACE3	X	0	0	0	%100
8	FACE3	Z	0	0	0	%100
9	MP2A	X	0	0	0	%100
10	MP2A	Z	0	0	0	%100
11	MP3A	X	0	0	0	%100
12	MP3A	Z	0	0	0	%100
13	MP1A	X	0	0	0	%100
14	MP1A	Z	0	0	0	%100
15	M14	X	0	0	0	%100
16	M14	Z	0	0	0	%100
17	FACE1	X	0	0	0	%100
18	FACE1	Z	0	0	0	%100
19	MP4A	X	0	0	0	%100
20	MP4A	Z	0	0	0	%100

Member Area Loads

 Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
		No	Data to Print			

Envelope Joint Reactions

	Joint		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
1	N35A	max	25.444	61	271.72	51	16.993	64	.082	51	005	68	.045	51
2		min	-25.443	67	164.359	70	-37.692	58	.05	64	016	62	.027	65
3	N36A	max	16.894	73	286.729	51	29.149	52	.082	51	.019	57	.037	51
4		min	-16.895	55	173.478	64	-8.435	70	.05	71	.002	75	.022	69
5	Totals:	max	42.338	61	558.449	51	42.346	52						
6		min	-42.337	67	342.068	70	-42.329	70						

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

	Member	Shape	Code C	. Loc[ft]	LC	Shear	Loc[ft]	Dir	LC	phi*Pnc [lb]	phi*Pnt [lb]	phi*Mn y	.phi*Mn z	.Cb	Eqn
1	M1	L3X3X4	.269	2.667	51	.233	4.333	Z	51	24846.436	46656	1.688	3.371	1	H2-1
2	M2	L3X3X4	.079	0	51	.051	0			38223.022		1.688	3.756	2	H2-1
3	FACE2	L3X3X4	.273	2.667	51	.237	4.333	z	51	24846.436	46656	1.688	3.365	1	H2-1
4	FACE3	L3X3X4	.078	0	51	.052	0	Z	51	38223.022	46656	1.688	3.756	2	H2-1
5	MP2A	PIPE 2.0	.024	4.438	51	.004	5.625		56	20866.733	32130	1.872	1.872	1	H1-1b
6	MP3A	PIPE 2.0	.008	1	51	.005	1		58	20866.733	32130	1.872	1.872	1	H1-1b
7	MP1A	PIPE_2.0	.009	1.458	58	.005	1.531		58	17855.085	32130	1.872	1.872	1	H1-1b



: Colliers Engineering & Design

Nov 14, 2023 1:09 PM Checked By:_

: Mount Analysis

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

	Member	Shape	Code C	Loc[ft]	LC	Shear	Loc[ft]	Dir	LC	phi*Pnc [lb]	phi*Pnt [lb]	phi*Mn y	.phi*Mn z C	Cb	Egn
8	M14	L3X3X4	.079	0	51	.050	0	У	51	38223.022	46656	1.688	3.756 2		H2-1
9	FACE1	L3X3X4	.078	0	51	.052	0	У	51	38223.022	46656	1.688	3.756 2		H2-1
10	MP4A	PIPE 2.0	.009	1.458	58	.006	1.531		59	17855.085	32130	1.872	1.872	1	H1-1b



Client:	Verizon Wireless	Date: 11/14/2023
Site Name:	CHESHIRE NORTH CT - ATC Stealth Silo	
MDG #:	5000383173	
Fuze ID #:	17123857	Page: 1

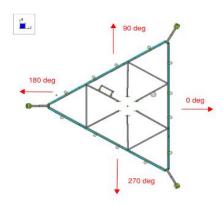
Version 1.01

I. Mount-to-Tower Connection Check

Custom Orientation Required

Y	es	
---	----	--

Nodes	Orientation
(labeled per Risa)	(per graphic of typical platform)
N35A	0
M36A	0



Tower Connection Bolt Checks

Yes

Bolt Orientation

Bolt Quantity per Reaction:

 $\begin{array}{l} d_x \ (in) \ (Delta \ X \ of \ typ. \ bolt \ config. \ sketch): \\ d_y \ (in) \ (Delta \ Y \ of \ typ. \ bolt \ config. \ sketch): \end{array}$

Bolt Type:

Bolt Diameter (in):

Required Tensile Strength / bolt (kips):

Required Shear Strength / bolt (kips):

Tensile Capacity / bolt (kips):

Shear Capacity / bolt (kips):

Bolt Overall Utilization:

Tower Connection Baseplate Checks

Perpendicular

2 (Horizontal)
5
1.5
A325N
0.75
0.2
0.3
29.8
17.9
1.9%

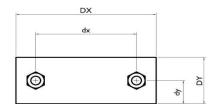
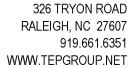


EXHIBIT 5





Non-Ionizing Electromagnetic Radiation (NIER) Study

Site Number: 370624

Site Name:

Mankes Silo

Location:

Cheshire, Connecticut

Tenants:

Verizon Wireless, AT&T Mobility, & T-Mobile

Prepared For:

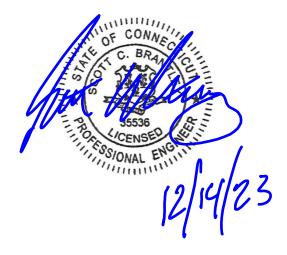
American Tower, Inc. Woburn, Massachusetts

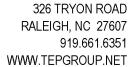
December 13th, 2023

143405 P-412374

Prepared By: Approved By:

Adam Carlson MS, CBRE, CPI
Program Manager RF Design & Service
Tower Engineering Professionals

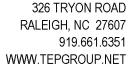






Contents

DISCLAIMER NO	OTICE	3
INTRODUCTION	V	4
SITE AND FACIL	ITY CONSIDERATIONS	4
	TY CALCULATIONS	
	ON & CONTROL	
	DETERMINATION	
	SITE PHOTOS	
	ANTENNA INVENTORY	
	MPE LIMIT STUDY	
	MPE LIMIT STUDY	
	INFORMATION PERTAINING TO MPE STUDIES	
APPENDIX 5	MPE STANDARDS METHODOLOGY	12





Disclaimer Notice

This work is based upon our best interpretation of available information. However, these data and their interpretation are constantly changing. Therefore, we do not warrant that any undertaking based on this report will be successful, or that others will not require further research or actions in support of this proposal or future undertaking. In the event of errors, our liability is strictly limited to the replacement of this document with a corrected one. Liability for consequential damages is specifically denied. Any use of this document constitutes an agreement to hold Tower Engineering Professionals and its employees harmless and indemnify it for all liability, claims, demands, and litigation expenses and attorney's fees arising out of such use.

Work product documents released prior to account settlement remain the sole property of Tower Engineering Professionals and must be returned on demand. Underlying work notes and data relating to this document remain the property of Tower Engineering Professionals. This document shall not be reproduced in whole or part without the permission of Tower Engineering Professionals. Any dispute hereunder shall be adjudicated in North Carolina. Any use or retention of this document constitutes acceptance of these terms, the entire work product, and all charges associated therewith.

COPYRIGHT © 2023 BY

TOWER ENGINEERING PROFESSIONALS

RALIEGH, NORTH CAROLINA





Non-Ionizing Electromagnetic Radiation (NIER) Study

370624 Mankes Silo Cheshire, Connecticut

INTRODUCTION

Tower Engineering Professionals RF Design & Services Division (TEP-RF) of Raleigh, North Carolina, has been retained by American Tower, Inc. (ATC), of Woburn, Massachusetts to evaluate the RF emissions compared to the Maximum Permissible Exposure (MPE) limit for facilities at this location. This evaluation uses compliance standards as outlined in Federal Communications Commission (FCC) document OET-65.

SITE AND FACILITY CONSIDERATIONS

Site 370624 Mankes Silo is located at 1338 Highland Ave., in Cheshire, Connecticut at coordinates 41.536944, -72.893333. The support structure is 75' stealth tower. An aerial view of the tower can be found in Appendix 1, Site Photos. The tenants are Verizon Wireless (VZW), AT&T Mobility (AT&T) & T-Mobile. A table listing all antennae and effective radiated power (ERP) levels that were used in this study may be found in Appendix 2, Antenna Inventory.

POWER DENSITY CALCULATIONS

Power densities were calculated based on FCC MPE limits for both General Population/Uncontrolled and Occupational/Controlled environments.

For the purpose of this study, a radius of 100' from the base of the tower with a height of 6' above ground level was used, beyond 100' the MPE levels become *di minimus*. This study utilized FCC recognized and accepted software programs using the maximum ERP levels for the antenna models provided by ATC. Diagrams depicting the predicted spatial average power density level at any specific location may be found in Appendix 3, MPE Limit Study. A discussion regarding the FCC limits may be found in Appendix 4, Information Pertaining to MPE Studies. Study methodology describing Non-ionizing Radiation Prediction Models used in this study may be found in Appendix 5, MPE Standards Methodology.



All data used in this study was collected from one or more of the following sources:

- ATC furnished data and does not include other unidentified communication facilities.
- Load List at Load List at 370624 Mankes Silo.RF NIER Study 11/15/23.
- FCC databases.
- Carrier standard configurations.
- Empirical data collected by TEP.

SITE MITIGATION & CONTROL

In order to comply with FCC, tenant, & ATC requirements, TEP recommends the placement of signage at the base of the tower and all compound access points to alert workers of potential exposure to RF fields while working on or near the antennae.

TEP recommends that all personnel working on this tower be trained in RF safety procedures and carry a personal RF monitor at all times.

COMPLIANCE DETERMINATION

This installation <u>IS</u> in compliance with current FCC MPE limits as described in FCC OET-65.



APPENDIX 1 Site Photos



Aerial View of Site

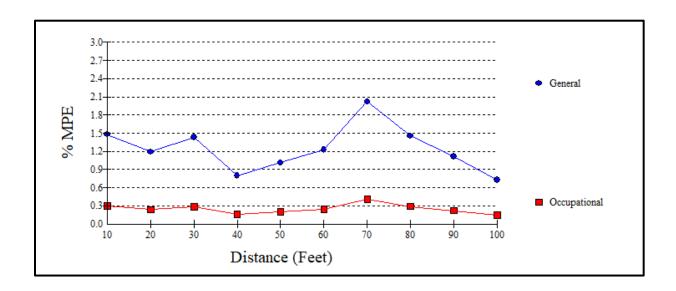


Appendix 2 Antenna Inventory

370624 Mankes Silo							
	Antenna Inventory						
Antenna #	Carrier	Antenna Manufacturer	Antenna Model	Frequency Band (MHz)	Azmiuth (°)	Effective Radiated Power (W)	Radiation Center (ft)
1	Verizon	Commscope	SBNHH-1D65B	700/800	000	27758	70.0
2	Verizon	Commscope	SBNHH-1D65B	700/800	120	27758	70.0
3	Verizon	Commscope	SBNHH-1D65B	700/800	240	27758	70.0
4	Verizon	Commscope	SBNHH-1D65B	700/800	000	27758	70.0
5	Verizon	Commscope	SBNHH-1D65B	700/800	120	27758	70.0
6	Verizon	Commscope	SBNHH-1D65B	700/800	240	27758	70.0
7	Verizon	Commscope	SBNHH-1D65B	700/800	000	27758	70.0
8	Verizon	Commscope	SBNHH-1D65B	700/800	120	27758	70.0
9	Verizon	Commscope	SBNHH-1D65B	700/800	240	27758	70.0
10	Verizon	Commscope	SBNHH-1D65B	700/800	000	27758	70.0
11	Verizon	Commscope	SBNHH-1D65B	700/800	120	27758	70.0
12	Verizon	Commscope	SBNHH-1D65B	700/800	240	27758	70.0
13	T-Mobile	RFS	APXVAALL24	600/700/1900/2100	030	23200	57.0
14	T-Mobile	RFS	APXVAALL24	600/700/1900/2100	150	23200	57.0
15	T-Mobile	RFS	APXVAALL24	600/700/1900/2100	270	23200	57.0
16	AT&T	Ericsson	Air 6419	3500-3700	023	24400	56.0
17	AT&T	Ericsson	Air 6419	3500-3700	143	24400	56.0
18	AT&T	Ericsson	Air 6419	3500-3700	263	24400	56.0
19	AT&T	Scala	80010966	700/800/2300	023	33222	54.0
20	AT&T	Scala	80010965	700/800/2300	143	33222	54.0
21	AT&T	Scala	80010966	700/800/2300	263	33222	54.0
22	AT&T	CCI	DMP65R-BU6EA-K	800/1700/1900/2100	143	57987	54.0
23	AT&T	CCI	DMP65R-BU8D	800/1700/1900/2100	23	57987	54.0
24	AT&T	CCI	DMP65R-BU8D	800/1700/1900/2100	263	57987	54.0
25	AT&T	Ericsson	Air 6449	3500-3700	023	71639	53.0
26	AT&T	Ericsson	Air 6449	3500-3700	143	71639	52.0
27	AT&T	Ericsson	Air 6449	3500-3700	263	71639	52.0



Appendix 3.1 MPE Limit Study

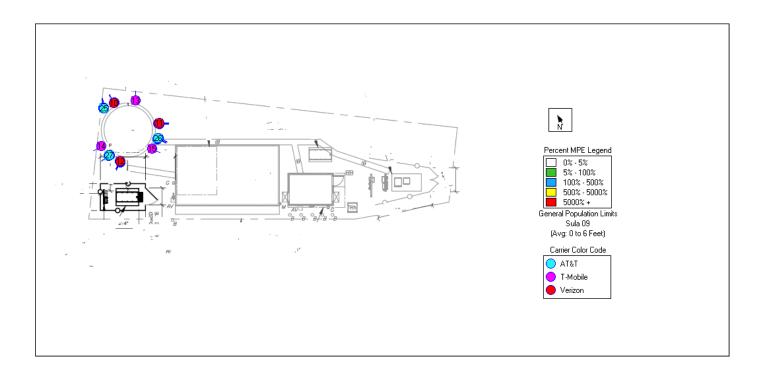


Maximum Power Density (@70'):	0.0124 mW/cm ²
General Population MPE (@70'):	2.09190%
Occupational MPE (@70'):	0.4038%

CIVIL | GEOTECHNICAL | SURVEY | INSPECTION | STRUCTURAL | PM&E | ENVIRONMENTAL | CONSTRUCTION



Appendix 3.2 MPE Limit Study





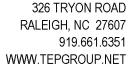
Appendix 4 Information Pertaining to MPE Studies

In 1985, the FCC first adopted guidelines to be used for evaluating human exposure to RF emissions. The FCC revised and updated these guidelines on August 1, 1996, as a result of a rule-making proceeding initiated in 1993. The new guidelines incorporate limits for Maximum Permissible Exposure (MPE) in terms of electric and magnetic field strength and power density for transmitters operating at frequencies between 300 kHz and 100 GHz.

The FCC's MPE limits are based on exposure limits recommended by the National Council on Radiation Protection and Measurements (NCRP), and, over a wide range of frequencies, the exposure limits were developed by the Institute of Electrical and Electronics Engineers, Inc., (IEEE) and adopted by the American National Standards Institute (ANSI) to replace the 1982 ANSI guidelines. Limits for localized absorption are based on recommendations of both ANSI/IEEE and NCRP.

The FCC's limits, and the NCRP and ANSI/IEEE limits on which they are based, are derived from exposure criteria quantified in terms of specific absorption rate (SAR). The basis for these limits is a whole-body averaged SAR threshold level of 4 watts per kilogram (4 W/kg), as averaged over the entire mass of the body, above which expert organizations have determined that potentially hazardous exposures may occur. The MPE limits are derived by incorporating safety factors that lead, in some cases, to limits that are more conservative than the limits originally adopted by the FCC in 1985. Where more conservative limits exist, they do not arise from a fundamental change in the RF safety criteria for whole-body averaged SAR, but from a precautionary desire to protect subgroups of the general population who, potentially, may be more at risk.

The FCC exposure limits are also based on data showing that the human body absorbs RF energy at some frequencies more efficiently than at others. The most restrictive limits occur in the frequency range of 30-300 MHz where whole-body absorption of RF energy by human beings is most efficient. At other frequencies, whole-body absorption is less efficient, and consequently, the MPE limits are less restrictive.

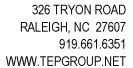




MPE limits are defined in terms of power density (units of milliwatts per centimeter squared: mW/cm²), electric field strength (units of volts per meter: V/m) and magnetic field strength (units of amperes per meter: A/m). The far-field of a transmitting antenna is where the electric field vector (E), the magnetic field vector (H), and the direction of propagation can be considered to be all mutually orthogonal ("plane-wave" conditions).

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.

<u>General population/uncontrolled exposure</u> limits apply to situations in which the general public 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 public 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. Additional details can be found in FCC OET 65.





Appendix 5 MPE Standards Methodology

This study predicts RF field strength and power density levels that emanate from communications system antennae. It considers all transmitter power levels (less filter and line losses) delivered to each active transmitting antenna at the communications site. Calculations are performed to determine power density and MPE levels for each antenna as well as composite levels from all antennas. The calculated levels are based on where a human (Observer) would be standing at various locations at the site. The point of interest where the MPE level is predicted is based on the height of the Observer.

Compliance with the FCC limits on RF emissions are determined by spatially averaging a person's exposure over the projected area of an adult human body, that is approximately six-feet or two-meters, as defined in the ANSI/IEEE C95.1 standard. The MPE limits are specified as time-averaged exposure limits. This means that exposure is averaged over an identifiable time interval. It is 30 minutes for the general population/uncontrolled RF environment and 6 minutes for the occupational/controlled RF environment. However, in the case of the general public, time averaging should not be applied because the general public is typically not aware of RF exposure, and they do not have control of their exposure time. Therefore, it should be assumed that any RF exposure to the general public will be continuous.



The FCC's limits for exposure at different frequencies are shown in the following Tables.

Limits for Occupational/Controlled Exposure					
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm²)	Averaging Time E ², H ² or S (minutes)	
0.3 - 3.0	614	1.63	100*	6	
3.0 - 30	1842/f	4.89/f	900/F²	6	
30 - 300	61.4	0.163	1.0	6	
300 - 1500			f/300	6	
1500 - 100,000			5	6	

f = frequency

^{* =} Plane-wave equivalent power density



Occupational/controlled limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply in situations when an individual is transient through a location where occupational/controlled limits apply provided he or she is made aware of the potential for exposure.

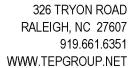
Limits for General Population/Uncontrolled Exposure					
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm²)	Averaging Time E ², H ² or S (minutes)	
0.3 - 1.34	614	1.63	100*	30	
1.34 - 30	824/f	2.19/f	180/F²	30	
30 -300	27.5	0.073	0.2	30	
300 -1500			f/1500	30	
1500 -100,000			1.0	30	

f = frequency

General population/uncontrolled exposures apply in situations in which the general public may be exposed or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure.

It is important to understand that these limits apply cumulatively to all sources of RF emissions affecting a given area. For example, if several different communications system antennas occupy a shared facility such as a tower or rooftop, then the total exposure from all systems at the facility must be within compliance of the FCC guidelines.

^{* =} Plane-wave equivalent power density





The field strength emanating from an antenna can be estimated based on the characteristics of an antenna radiating in free space. There are basically two field areas associated with a radiating antenna. When close to the antenna, the region is known as the Near Field. Within this region, the characteristics of the RF fields are very complex, and the wave front is extremely curved. As you move further from the antenna, the wave front has less curvature and becomes planar. The wave front still has a curvature, but it appears to occupy a flat plane in space (plane-wave radiation). This region is known as the Far Field.

Two models are utilized to predict Near and Far field power densities. They are based on the formulae in FCC OET 65.

Cylindrical Model (Near Field Predictions)

Spatially averaged plane-wave equivalent power densities parallel to the antenna may be estimated by dividing the antenna input power by the surface area of an imaginary cylinder surrounding the length of the radiating antenna. While the actual power density will vary along the height of the antenna, the average value along its length will closely follow the relation given by the following equation:

$$S = P \div 2\pi RL$$

Where:

S = Power Density

P = Total Power into antenna

R = Distance from the antenna

L = Antenna aperture length



For directional-type antennas, power densities can be estimated by dividing the input power by that portion of a cylindrical surface area corresponding to the angular beam width of the antenna. For example, for the case of a 120-degree azimuthal beam width, the surface area should correspond to 1/3 that of a full cylinder. This would increase the power density near the antenna by a factor of three over that for a purely omni-directional antenna. Mathematically, this can be represented by the following formula:

$$S = (180 / \theta_{BW}) P \div \pi RL$$

Where:

S = Power Density

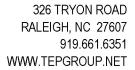
 θ_{BW} = Beam width of antenna in degrees (3 dB half-power point)

P = Total Power into antenna

R = Distance from the antenna

L = Antenna aperture length

If the antenna is a 360-degree omni-directional antenna, this formula would be equivalent to the previous formula.





Spherical Model (Far Field Predictions)

Spatially averaged plane-wave power densities in the Far Field of an antenna may be estimated by considering the additional factors of antenna gain and reflective waves that would contribute to exposure.

The radiation pattern of an antenna has developed in the Far Field region and the power gain needs to be considered in exposure predictions. Also, if the vertical radiation pattern of the antenna is considered, the exposure predictions would most likely be reduced significantly at ground level, resulting in a more realistic estimate of the actual exposure levels.

Additionally, to model a truly "worst case" prediction of exposure levels at or near a surface, such as at ground-level or on a rooftop, reflection off the surface of antenna radiation power can be assumed, resulting in a potential four-fold increase in power density.

These additional factors are considered, and the Far Field prediction model is determined by the following equation:

$$S = EIRP \times Rc \div 4\pi R^2$$

Where:

S = Power Density

EIRP = Effective Radiated Power from antenna

Rc = Reflection Coefficient (2.56)

R = Distance from the antenna

The EIRP includes the antenna gain. If the antenna pattern is considered, the antenna gain is relative based on the horizontal and vertical pattern gain values at that particular location in space, on a rooftop or on the ground. However, it is recommended that the antenna radiation pattern characteristics not be considered to provide a conservative "worst case" prediction. This is the equation is utilized for the Far Field exposure predictions herein.

EXHIBIT 6

TOWN OF CHESHIRE

Planning & Zoning Commission 84 South Main Street Cheshire, Connecticut 06410 203-271-6670 • Fax 203-271-6664

CERTIFIED MAIL



December 3, 1999

Springwich Cellular Limited Partnership c/o Keith Coppins 500 Enterprise Drive -Suite 3A Rocky Hill, CT 06067

RE:

Site Plan Application

MAD 12/28/99

Springwich Cellular Limited Partnership

1338 Highland Avenue

To Install a cellular antennae and placement of an Equipment cabinet

Dear Mr. Coppins:

At the regular meeting of the Planning and Zoning Commission held on November 22, 1999, the following motion was unanimously approved:

MOTION:

That the Zoning Committee recommends that the Planning and Zoning Commission approve the site plan application of Springwich Cellular Limited Partnership for a cellular antennae and equipment cabinet for property located at 1338 Highland Avenue, in an I-2 zone, as shown on the current Assessor's Map No. 28, Lot No. 15, and shown on the following plans entitled:

SNET Mobility Inc., 1338 Highland Avenue Cheshire, CT., Springwich Cellular Site, Cheshire-Tower Farms, October 15, 1999 sheets T-1, C-1, and C-2

With the following stipulation:

1. The applicant shall comply with comments in a memo from the Police Department dated November 4, 1999 and attached hereto.

Moved by Mrs. Mouris, seconded by Mr. Gaudio and unanimously approved.

Very truly yours,

Welliam C. Freitag, Secretary

Cheshire Planning and Zoning Commission

EXHIBIT 7



Hello, your package has been delivered.

Delivery Date: Wednesday, 01/03/2024

Delivery Time: 11:58 AM **Signed by:** DONNA

CENTERLINE SITE ACQUISITION

Tracking Number: <u>1Z9Y45030319305962</u>

AMERICAN TOWER

Ship To: 10 PRESIDENTIAL WAY WOBURN, MA 018011053

US

Number of Packages: 1

UPS Service: UPS Ground
Package Weight: 1.0 LBS
Reference Number: 14519479

Discover more about UPS:

Visit www.ups.com

Sign Up For Additional E-Mail From UPS

Read Compass Online

© 2024 United Parcel Service of America, Inc. UPS, the UPS brandmark, and the color brown are trademarks of United Parcel Service of America, Inc. All rights reserved.

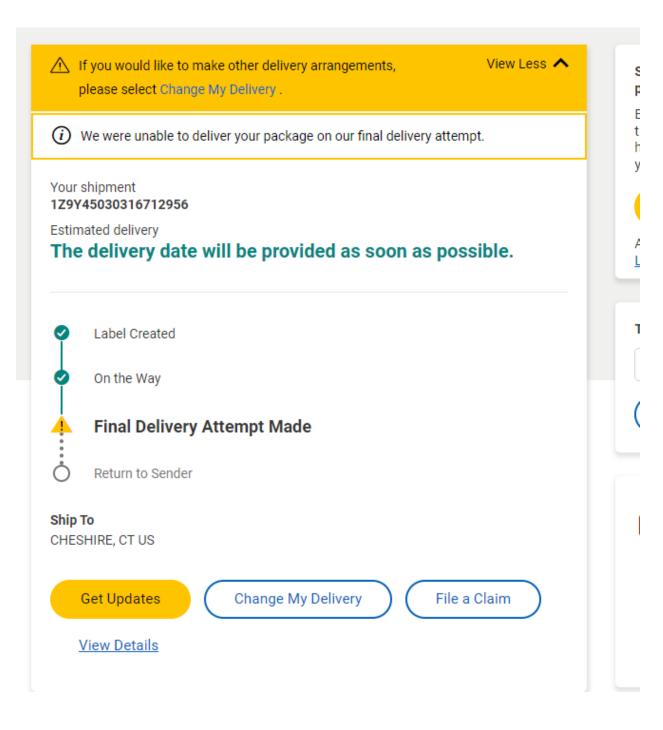
All trademarks, trade names, or service marks that appear in connection with UPS's services are the property of their respective owners.

Please do not reply directly to this email. UPS will not receive any reply message.

Review the UPS Privacy Notice

For Questions, Visit Our Help and Support Center

Links contained in this email have been replaced. If you click on a link in the email above, the link will be analyzed for known threats. If a known threat is found, you will not be able to proceed to the destination. If suspicious content is detected, you will see a warning.





Hello, your package has been delivered.

Delivery Date: Wednesday, 01/03/2024

Delivery Time: 12:02 PM **Signed by:** SHEPARD

CENTERLINE SITE ACQUISITION

Tracking Number: <u>1Z9Y45030305732937</u>

TOWN OF CHESHIRE

Ship To: 84 SOUTH MAIN STREET CHESHIRE, CT 064103108

US

Number of Packages: 1

UPS Service: UPS Ground
Package Weight: 1.0 LBS
Reference Number: 14519479

Discover more about UPS:

Visit www.ups.com

Sign Up For Additional E-Mail From UPS

Read Compass Online

© 2024 United Parcel Service of America, Inc. UPS, the UPS brandmark, and the color brown are trademarks of United Parcel Service of America, Inc. All rights reserved.

All trademarks, trade names, or service marks that appear in connection with UPS's services are the property of their respective owners.

Please do not reply directly to this email. UPS will not receive any reply message.

Review the UPS Privacy Notice

For Questions, Visit Our Help and Support Center

Links contained in this email have been replaced. If you click on a link in the email above, the link will be analyzed for known threats. If a known threat is found, you will not be able to proceed to the destination. If suspicious content is detected, you will see a warning.



Hello, your package has been delivered.

Delivery Date: Wednesday, 01/03/2024

Delivery Time: 12:02 PM

Signed by: KING

Reference Number:

CENTERLINE SITE ACQUISITION

Tracking Number: <u>1Z9Y45030312321948</u>

TOWN OF CHESHIRE

Ship To: 84 SOUTH MAIN STREET CHESHIRE, CT 064103108

1201111

14519479

Number of Packages: 1

UPS Service:UPS GroundPackage Weight:1.0 LBS

_

Discover more about UPS:

Visit www.ups.com

Sign Up For Additional E-Mail From UPS

Read Compass Online

© 2024 United Parcel Service of America, Inc. UPS, the UPS brandmark, and the color brown are trademarks of United Parcel Service of America, Inc. All rights reserved.

All trademarks, trade names, or service marks that appear in connection with UPS's services are the property of their respective owners.

Please do not reply directly to this email. UPS will not receive any reply message.

Review the UPS Privacy Notice

For Questions, Visit Our Help and Support Center

Links contained in this email have been replaced. If you click on a link in the email above, the link will be analyzed for known threats. If a known threat is found, you will not be able to proceed to the destination. If suspicious content is detected, you will see a warning.