Robinson+Cole

KENNETH C. BALDWIN

280 Trumbull Street Hartford, CT 06103-3597 Main (860) 275-8200 Fax (860) 275-8299 kbaldwin@rc.com Direct (860) 275-8345

Also admitted in Massachusetts and New York

May 17, 2021

Via Electronic Mail

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

Re: Notice of Exempt Modification – Facility Modification Wethersfield Police Department 250 Silas Deane Highway, Wethersfield, Connecticut

Dear Attorney Bachman:

Cellco Partnership d/b/a Verizon Wireless ("Cellco") currently maintains an existing wireless telecommunications facility at the Wethersfield Police Department ("WPD") at the above-referenced address (the "Property"). The facility consists of antennas and remote radio heads attached to a tower and related equipment on the ground, near the base of the tower. The tower was approved by the Town of Wethersfield ("Town"). Cellco representatives did reach out to municipal officials who indicated that they could not locate any local permits or approvals for the WPD tower. Cellco's shared use of the tower was approved by the Council in May of 2004 (a copy of Cellco's TS-VER-159-040614 approval letter was not available on the Council's website).

Cellco now intends to modify its facility by removing six (6) existing antennas and installing three (3) Samsung 64T64RMMU antennas on Cellco's existing antenna platform. A set of project plans showing Cellco's proposed facility modifications and new antennas specifications are included in <u>Attachment 1</u>.

Please accept this letter as notification pursuant to R.C.S.A. § 16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to Wethersfield's Chief Elected Official and Land Use Officer.

Melanie A. Bachman, Esq. May 17, 2021 Page 2

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

- 1. The proposed modifications will not result in an increase in the height of the existing tower. Cellco's replacement antennas will be installed on Cellco's existing antenna platform.
- 2. The proposed modifications will not involve any change to ground-mounted equipment and, therefore, 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 installation of Cellco's new antennas will not increase radio frequency (RF) emissions at the facility to a level at or above the Federal Communications Commission (FCC) safety standard. A cumulative General Power Density table for the modified facility is included in https://doi.org/10.1007/journal.org/ The modified facility will be capable of providing Cellco's 5G wireless service.
- 5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.
- 6. According to the attached Structural Analysis ("SA") and Mount Analysis ("MA"), the existing tower, tower foundation, tower base plate can support Cellco's proposed modifications. Modifications to the antenna mounting device will be required. Copies of the SA and MA are included in <u>Attachment 3</u>. Also included in <u>Attachment 3</u> is a separate letter prepared by the consulting engineer responsible for the preparation of the SA and MA verifying that the antenna model described in the SA and MA, respectively, as a nL-Sub6 Antenna or VZS01 Antenna, is the Samsung 64T64R model antenna that will be installed on the tower.

A copy of the parcel map and Property owner information is included in <u>Attachment 4</u>. A Certificate of Mailing verifying that this filing was sent to municipal officials is included in Attachment 5.

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

Melanie A. Bachman, Esq. May 17, 2021 Page 3

Sincerely,

Kenneth C. Baldwin

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Enclosures Copy to:

Gary A. Evans, Wethersfield Town Manger Peter Gillespie, Wethersfield Director of Planning & Economic Development Aleksey Tyurin

ATTACHMENT 1



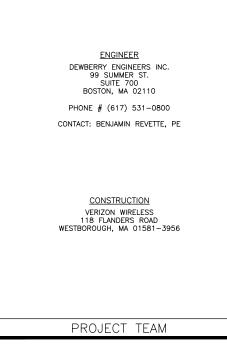
HARTFORD 9 CT

250 SILAS DEANE HIGHWAY WETHERSFIELD, CT 06109

FUZE PROJECT ID: 16232035

PSLC: 468180





PMI ACCESSED AT:	HTTPS://PMI.VZWSMART.COM		
SMART TOOL VENDOR PROJECT NUMBER:	10022557		
VZW LOCATION CODE (PSLC):	468180		
FUZE NUMBER:	16232035		
PMI AND REQUIREMENTS ALSO IN ANALYSIS REPORT	MBEDDED IN MOUNT		
MOUNT MODIFICATION REQUIRED?	YES		
VZW APPROVED SMART KIT VENDORS			
REFER TO MOUNT MODIFICATION DRAWINGS PAGE FOR VZW SMART KIT APPROVED VENDORS			
CONTRACTOR PMI	REQUIREMENTS		
THIS DOCUMENT WAS DEVELOPED TO REFLECT A SPECIFIC SITE AND ITS SITE CONDITIONS AND IS NOT TO BE USED FOR ANOTHER SITE OR WHEN OTHER CONDITIONS PERTAIN, RELISE			

FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION

A.D.A. COMPLIANCE:

ı	2. INSTALL (3) NEW ANTENNAS ON EXISTING ANTENNA PIPES.
ı	3. REMOVE (1) EXISTING MAIN OVP.
ı	4. INSTALL (2) NEW 6-OVP'S.
ı	5. REMOVE (1) EXISTING HYBRID CABLE ROUTED FROM THE EQUIPMENT SHELTER TO THE TOWER OVP.
ı	6. INSTALL (2) NEW 6X12 LOW INDUCTANCE HYBRID CABLES ROUTED FROM THE EQUIPMENT SHELTER TO THE TOWER OVP
ı	7. INSTALL NEW JUMPER CABLES AS REQUIRED BY RFDS.
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l	NOTE:
	SCOPE OF WORK BASED ON ANTENNA REC FOR
	"HARTFORD_9_CT" DATED 11/05/2020. VERIFY SCOPE OF WORK WITH FINAL RFDS PRIOR TO CONSTRUCTION.
	SCOPE OF WORK
L	

REMOVE (3) EXISTING PIPE MOUNTED ANTENNAS.

SHT. NO.	DESCRIPTION
T-1	TITLE SHEET
GN-1	GENERAL NOTES
C-1	PARTIAL SITE PLAN
C-2 C-3	WEST ELEVATION
C-4	ANTENNA PLANS
C-5	CONSTRUCTION DETAILS SMART TOOL SECTOR PLANS & ELEVATION DETAILS
C=3	SMART TOOL SECTOR PLANS & ELEVATION DETAILS
	SHEET INDEX

CELLCO PARTNERSHIP		
d/b/a Verizon		

99 EAST RIVER DRIVE EAST HARTFORD, CT 06108

HARTFORD 9 CT ANTMO

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Α	01/05/21	FOR	CO	MMENT	



Dewberry Engineers Inc. 99 SUMMER STREET SUITE 700 BOSTON, MA 02110 PHONE: 617.695.3400 FAX: 617.695.3310

DRAWN BY:	J
REVIEWED BY:	CDI
CHECKED BY:	BBf
PROJECT NUMBER:	5012148
JOB NUMBER:	5012182

SITE ADDRESS:

250 SILAS DEANE HIGHWAY WETHERSFIELD, CT 06109

SHEET TITLE

TITLE SHEET

SHEET NUMBER

 $\Gamma - 1$

GENERAL CONSTRUCTION NOTES:

- ALL WORK SHALL CONFORM TO ALL CURRENT APPLICABLE FEDERAL, STATE, AND LOCAL CODES, AND COMPLY WITH
- CONTRACTOR SHALL CONTACT "DIG SAFE" (888-344-7233) FOR IDENTIFICATION OF UNDERGROUND UTILITIES PRIOR TO START OF CONSTRUCTION.
- 3. CONTRACTOR IS 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.
- 5. DO NOT CHANGE SIZE OR SPACING OF STRUCTURAL ELEMENTS.
- 6. DETAILS SHOWN ARE TYPICAL; SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.
- THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH IS THE SOLE
- CONTRACTOR SHALL BRACE STRUCTURES UNTIL ALL STRUCTURAL ELEMENTS NEEDED FOR STABILITY ARE INSTALLED. THESE ELEMENTS ARE AS FOLLOWS: LATERAL BRACING, ANCHOR BOLTS, ETC.
- CONTRACTOR SHALL DETERMINE EXACT LOCATION OF EXISTING UTILITIES. DRAIN PIPES, VENTS, ETC. BEFORE COMMENCING
- 10. INCORRECTLY FABRICATED, DAMAGED, OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE OWNER PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH REMEDIAL ACTION SHALL REQUIRE WRITTEN APPROVAL BY THE OWNER'S REPRESENTATIVE PRIOR TO PROCEEDING.
- 11. EACH CONTRACTOR SHALL COOPERATE WITH THE OWNER'S REPRESENTATIVE, AND COORDINATE HIS WORK WITH THE WORK OF OTHERS.
- 12. CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED BY CONSTRUCTION OF THIS PROJECT TO MATCH EXISTING PRE-CONSTRUCTION CONDITIONS TO THE SATISFACTION OF THE VERIZON WIRELESS CONSTRUCTION MANAGER.
- 13. ALL CABLE/CONDUIT ENTRY/EXIT PORTS SHALL BE WEATHERPROOFED DURING INSTALLATION USING A SILICONE SEALANT.
- 14. WHERE EXISTING CONDITIONS DO NOT MATCH THOSE SHOWN IN THIS PLAN SET, CONTRACTOR WILL NOTIFY ENGINEER, VERIZON WIRELESS PROJECT CONSTRUCTION MANAGER, AND LANDLORD IMMEDIATELY.
- CONTRACTOR SHALL ENSURE ALL SUBCONTRACTORS ARE PROVIDED WITH A CURRENT SET OF DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.
- 16. ALL ROOF WORK SHALL BE DONE BY A QUALIFIED AND EXPERIENCED ROOFING CONTRACTOR IN COORDINATION WITH ANY CONTRACTOR WARRANTING THE ROOF TO ENSURE THAT THE WARRANTY IS MAINTAINED.
- 17. CONTRACTOR SHALL REMOVE ALL RUBBISH AND DEBRIS FROM THE SITE AT THE END OF EACH DAY.
- 18. CONTRACTOR SHALL COORDINATE WORK SCHEDULE WITH LANDLORD AND TAKE PRECAUTIONS TO MINIMIZE IMPACT AND DISRUPTION OF OTHER OCCUPANTS OF THE FACILITY.
- 19. CONTRACTOR SHALL FURNISH VERIZON WIRELESS WITH THREE AS-BUILT SETS OF DRAWINGS UPON COMPLETION OF WORK.
- 20. ANTENNAS AND CABLES ARE TYPICALLY PROVIDED BY VERIZON WIRELESS. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH PROJECT MANAGER TO DETERMINE WHAT, IF ANY, ITEMS WILL BE PROVIDED BY VERIZON WIRELESS. ALL ITEMS NOT PROVIDED BY VERIZON WIRELESS. SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR. CONTRACTOR WILL INSTALL ALL ITEMS PROVIDED BY VERIZON WIRELESS.
- 21. PRIOR TO SUBMISSION OF BID, CONTRACTOR WILL COORDINATE WITH VERIZON WIRELESS PROJECT MANAGER TO DETERMINE IF ANY PERMITS WILL BE OBTAINED BY VERIZON WIRELESS. ALL REQUIRED PERMITS NOT OBTAINED BY VERIZON WIRELESS MUST BE OBTAINED, AND PAID FOR, BY THE CONTRACTOR.
- 22. GENERAL CONTRACTOR SHALL HAVE A LICENSED HVAC CONTRACTOR START THE HVAC UNITS. SYNCHRONIZE THE CONTRACTOR STARL HAVE A LICENSED HYAC CONTRACTOR START THE HVAC UNITS, SYNCHRONIZE THE THERMOSTATS, ADJUST ALL SETTINGS ON EACH UNIT ACCORDING TO VERIZON WIRELESS CONSTRUCTION MANAGER'S SPECIFICATIONS, AND THOROUGHLY TEST AND BALANCE EACH UNIT TO ENSURE PROPER OPERATION PRIOR TO TURNING THE SITE OVER TO OWNER.
- 23. CONTRACTOR SHALL INSTALL ALL SITE SIGNAGE IN ACCORDANCE WITH VERIZON WIRELESS SPECIFICATIONS AND REQUIREMENTS.
- 24. CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS TO ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION
- 25. UNLESS OTHERWISE NOTED VERIZON WIRELESS SHALL PROVIDE ALL REQUIRED RF MATERIAL FOR CONTRACTOR TO INSTALL, INCLUDING ANTENNAS, TMA'S, BIAS-T'S, COMBINERS, PDU, DC BLOCKS, SURGE ARRESTORS, GPS ANTENNA, GPS SURGE ARRESTOR, COAXIAL CABLE
- 26. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL VERIFY ALL EQUIPMENT TO BE PROVIDED BY VERIZON WIRELESS FOR INSTALLATION BY CONTRACTOR.
- 27. ALL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND LOCATED ACCORDING TO
- 28. DETAILS SHOWN ARE TYPICAL; SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.
- 29. 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 THE ENGINEER A MINIMUM OF 48 HOURS IN ADVANCE PRIOR TO CONSTRUCTION START, MORE SPECIFICALLY BEFORE; SEALING ANY FLOOR, WALL OR ROOF PENETRATION, FINAL UTILITY CONNECTIONS, POURING CONCRETE, BACKFILLING UTILITY TRENCHES AND STRUCTURAL POST OR MOUNTING CONNECTIONS, FOR ENGINEERING REVIEW
- 31. SEAL PENETRATIONS THROUGH FIRE RATED AREAS WITH UL LISTED D FIRE CODE APPROVED MATERIALS.
- 32. REPAIR ANY DAMAGE DURING CONSTRUCTION TO MATCH EXISTING PRE—CONSTRUCTION CONDITIONS TO THE SATISFACTION OF THE CONSTRUCTION MANAGER AND LANDLORD.
- 33. ALL DISRUPTIVE WORK AND WORK WITHIN TENANT SPACES TO BE COORDINATED WITH BUILDING REPRESENTATIVE.

CODE SPECIFICATIONS:

- ALL WORK SHALL COMPLY WITH THE FOLLOWING APPLICABLE CODES:
- 2018 CONNECTICUT STATE BUILDING CODE WITH THE FOLLOWING APPLICABLE CODES:
- 2015 INTERNATIONAL RESIDENTIAL CODE (IRC)
- 2015 INTERNATIONAL EXISTING BUILDING CODE (IEBC)
 2017 INTERNATIONAL BUILDING CODE (IBC)
- 2015 INTERNATIONAL MECHANICAL CODE (ÍMC)
- 2017 NATIONAL ELECTRICAL CODE (NEC) (NFPA 70)
- 2015 INTERNATIONAL PLUMBING CODE (IPC)
- 2015 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)
- IN THE EVENT OF CONFLICT. THE MOST RESTRICTIVE CODE SHALL PREVAIL.
- 2. ALL STRUCTURAL WORK TO BE DONE IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION MANUAL, 13TH EDITION (AISC 13TH ED.)
- ALL CONCRETE WORK TO BE DONE IN ACCORDANCE WITH THE AMERICAN CONCRETE INSTITUTE (ACI 301) SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS (ACI 318) AND BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE
- REINFORCING STEEL WORK TO BE DONE IN ACCORDANCE WITH THE (ACI 315) MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES

GROUNDING NOTES:

- 1. GROUNDING SHALL COMPLY WITH NEC ART, 250.
- 2. GROUNDING CONDUCTORS SHALL BE #6 COPPER STRANDED WIRE WITH GREEN COLOR INSULATION
- 3 ALL GROUND CONNECTIONS TO BE BURNDY HYGROUND COMPRESSION TYPE CONNECTORS OR CADWELD EXOTHERMIC WELD DO NOT ALLOW BARE COPPER WIRE TO BE IN CONTACT WITH
- ROUTE GROUNDING CONNECTORS ALONG THE SHORTEST AND STRAIGHTEST PATH POSSIBLE, EXCEPT AS OTHERWISE INDICATED. GROUNDING LEADS SHOULD NOT BE BENT AT RIGHT ANGLE. ALWAYS MAKE 12" RADIUS BENDS. #6 WIRE CAN BE BENT AT 6" RADIUS WHEN NECESSARY.
- CONNECTIONS TO GROUNDING BAR SHALL BE MADE WITH TWO HOLE COMPRESSION TYPE COPPER LUGS. APPLY OXIDE INHIBITING COMPOUND TO ALL LOCATIONS.
- TEST COMPLETED GROUNDING SYSTEM AND RECORD RESISTANCE VALUES FOR PROJECT CLOSE-OUT DOCUMENTATION, GROUND RESISTANCE SHALL NOT EXCEED 5 OHMS
- GROUNDING CONDUCTORS BETWEEN MGB AND WATERMAIN SHALL BE #2/0. BONDING JUMPERS FROM METALLIC SURFACES SHALL BE #2 MINIMUM. ALL GROUND CONDUCTORS AND BONDING JUMPERS SHALL BE SOFT DRAWN ANNEALED, TINNED, BARE STRANDED COPPER WIRE. COAXIAL CABLES SHALL BE GROUNDED AT A MINIMUM OF TWO LOCATIONS USING VERIZON PROVIDED GROUNDING KITS. EXACT LOCATIONS SHALL BE FINALIZED IN THE FIELD BY THE CONSTRUCTION MANAGER.

STRUCTURAL STEEL NOTES:

- STRUCTURAL STEEL SHALL CONFORM TO THE LATEST EDITION OF THE AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".
- STRUCTURAL STEEL ROLLED SHAPES, PLATES, AND BARS SHALL CONFORM TO THE FOLLOWING ASTM

ASTM A-992, GRADE 50 ASTM A-36 ALL W SHAPES, UNLESS NOTED OR A992 OTHERWISE.
ALL OTHER ROLLED SHAPES, PLATES AND BARS UNLESS NOTED OTHERWISE. ASTM A-500, GRADE B ASTM A-325, TYPE SC OR N F1554, GRADE 36 ASTM A-53, GRADE B ALL ANCHORS BOLTS, UNLESS NOTED OTHERWISE.

STEEL PIPE

- ALL WELDING SHALL BE DONE USING E70XX ELECTRODES AND WELDING SHALL CONFORM TO AISC AND AWS D1.1 WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE 2L.4 IN THE AISC "MANUAL OF STEEL CONSTRUCTION", 14TH EDITION. WHERE WELD LENGTH IS NOT INDICATED, USE FULL LENGTH WELD. AT THE COMPLETION OF ALL WELDING, ALL DAMAGE TO GALVANIZED COATING SHALL BE REPAIRED.
- BOLTED CONNECTIONS SHALL USE BEARING TYPE GALVANIZED ASTM A325 BOLTS (3/4" DIA.) SUPPLIED WITH A NUT AND WASHER UNDER TURNED END AND SHALL HAVE MINIMUM OF TWO BOLTS UNLESS NOTED OTHERWISE.
- DO NOT DRILL HOLES THROUGH STRUCTURAL STEEL MEMBERS EXCEPT AS SHOWN AND DETAILED ON STRUCTURAL DRAWINGS
- NON-STRUCTURAL CONNECTIONS FOR STEEL GRATING MAY USE 5/8" DIA. GALVANIZED ASTM A 307 BOLTS UNLESS NOTED OTHERWISE.
- 7. USE PRECAUTIONS & PROCEDURES PER AWS D1.1 WHEN WELDING GALVANIZED METALS.
- 8. ALL EXISTING BEAM AND COLUMN DIMENSIONS SHALL BE FIELD VERIFY BY CONTRACTOR PRIOR TO FABRICATION.
 ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THOSE SHOWN SHALL BE REPORTED TO DEWBERRY ENGINEER IMMEDIATELY.
- 9 CONNECTION DESIGN BY FABRICATOR WILL BE SUBJECT TO REVIEW AND APPROVAL BY ENGINEER
- 10. ALL EXTERIOR STEEL WORK SHALL BE GALVANIZED IN ACCORDANCE WITH SPECIFICATION ASTM A123/A123M-00 HOT-DIP GALVANIZED FINISH UNLESS OTHERWISE NOTED. GALVANIZING SHALL BE PERFORMED AFTER SHOP FABRICATION TO THE GREATEST EXTENT POSSIBLE. ALL DINGS, SCRAPES, WARS, AND KINDED IN THE GALVANIZED AREAS SHALL BE REPAIRED AREAS SHALL BE REPAIRED AMAGED GALVANIZED COATINGS ON GALVANIZED ITEMS WITH GALVANIZED REPAIR PAINT ACCORDING TO ASTM A780 AND MANUFACTURER'S WRITTEN INSTRUCTIONS, PRIOR TO COMPLETION OF WORK TOUCHUP ALL DAMAGED GALVANIZED STEEL WITH APPROVED COLD ZINC. "GALVANOX." "DRY GALV." "ZINC-IT" OR APPROVED EQUIVALENT, IN ACCORDANCE WITH MANUFACTURERS GUIDELINES. TOUCHUP DAMAGED NON GALVANIZED STEEL WITH SAME PAINT APPLIED IN SHOP OR FIELD.
- 11. ALL WELDED COMPONENTS TO BE SHOP WELDED PRIOR TO INSTALLATION. NO WELDING ACTIVITIES IS PERMITTED DURING INSTALLATION OF PROPOSED EQUIPMENTS AND/OR HARDWARE ON SITE.



99 EAST RIVER DRIVE EAST HARTFORD, CT 06108

HARTFORD 9 CT ANTMO

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Dewberry Engineers Inc. SUITE 700 BOSTON, MA 02110 PHONE: 617.695.3400 FAX: 617.695.3310

DRAWN BY:	JG

REVIEWED BY:	CDH
CHECKED BY:	BBR
PROJECT NUMBER:	50121487
JOB NUMBER:	50121823

ITE ADDRESS:

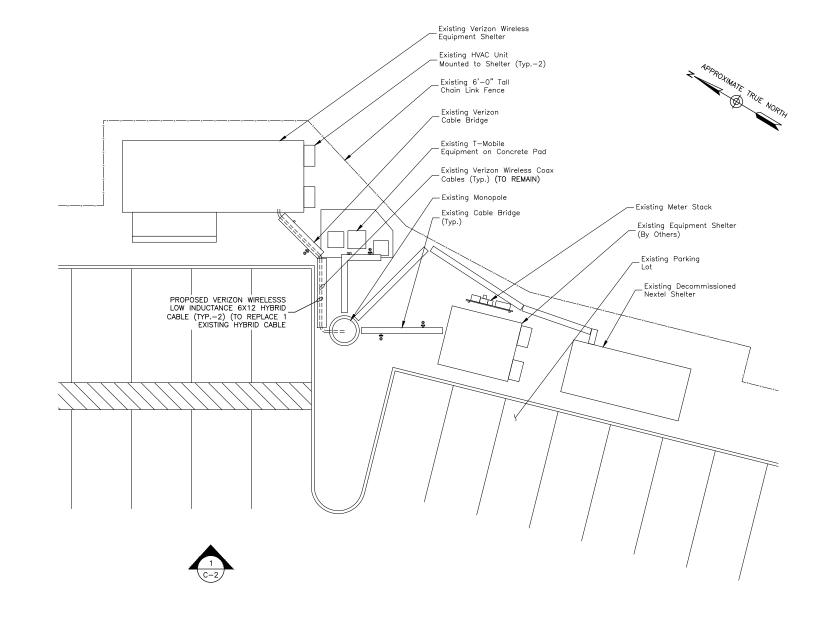
250 SILAS DEANE HIGHWAY WETHERSFIELD. CT 06109

SHEET TITLE

GENERAL NOTES

SHEET NUMBER

GN-1



HYBRID CABLE SCHEDULE*				
HYBRID CABLE LENGTH	CABLE SIZE	CABLE COUNT		
130'±	6x12	2		
*CONTRACTOR TO FIELD VERIFY HYBRID CABLE LENGTHS PRIOR TO CONSTRUCTION. LENGTH IS ESTIMATED FROM THE BASE EQUIPMENT OVP TO SECTOR OVP.				
CALCULATION BY: CDH				

NOTES:

- 1. NORTH SHOWN AS APPROXIMATE.
- 2. SOME EXISTING AND PROPOSED INFORMATION NOT SHOWN FOR CLARITY.
- SITE PLAN & ELEVATION BASED ON A SITE VISIT BY DEWBERRY ENGINEERS INC. ON 10/20/20.
- EXISTING ANTENNAS SHOWN AS APPROXIMATE. ELEVATION BASED ON EXISTING INFORMATION AND VISUAL INSPECTION AND HAVE NOT BEEN VERIFIED THROUGH AN ANTENNA MAPPING.
- MOUNT ALL ANTENNAS, COAX, RRH, OVP BOXES, ETC. IN ACCORDANCE WITH TOWER STRUCTURAL ANALYSIS BY DEWBERRY ENGINEERS INC. DATED 12-30-20, MOUNT ANALYSIS REPORT BY MASER CONSULTING, P.A. DATED 12-16-20 & MOUNT MODIFICATION DRAWINGS BY MASER CONSULTING, P.A. DATED 12-16-20.
- 6. REUSE EXISTING ANTENNA MOUNTS AND COAX. INSPECT FOR DAMAGE OR DECAY AND REPLACE AS NEEDED PER STRUCTURAL ANALYSIS.
- 7. THIS DOCUMENT WAS DEVELOPED TO REFLECT A SPECIFIC SITE AND ITS SITE CONDITIONS AND IS NOT TO BE USED FOR ANOTHER SITE OR WHEN OTHER CONDITIONS PERTAINS. REUSE OF THIS DOCUMENT IS AT THE SOLE RISK OF THE USER.





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PROJECT NUMBER:	5012148
JOB NUMBER:	50121823

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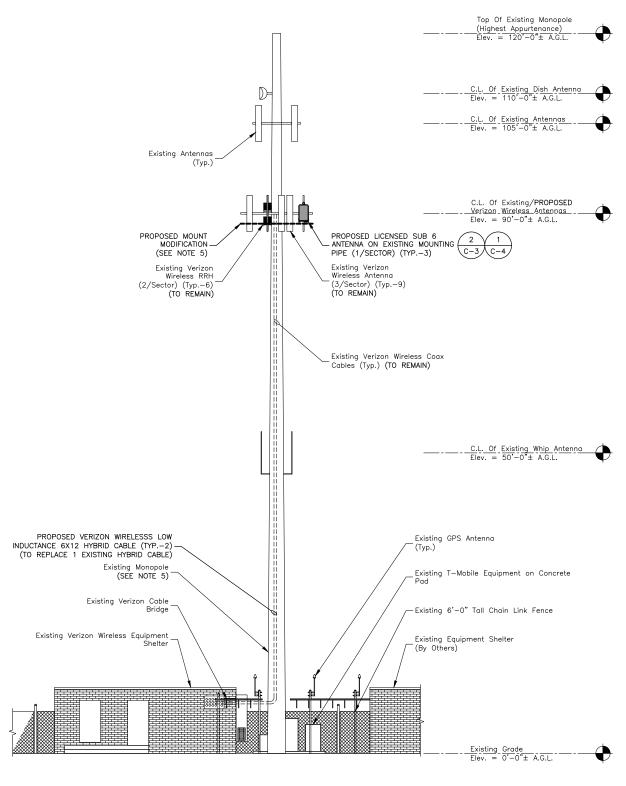
250 SILAS DEANE HIGHWAY WETHERSFIELD, CT 06109

SHEET TITLE

KEY MAP & PARTIAL SITE PLAN

SHEET NUMBER

C-1



NOTES

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REVIEWED BY:	CDI

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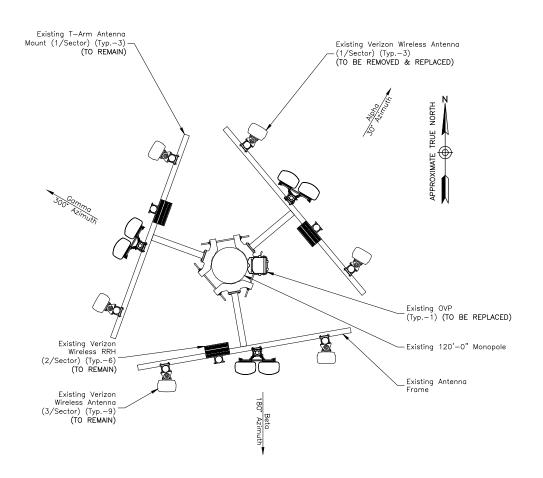
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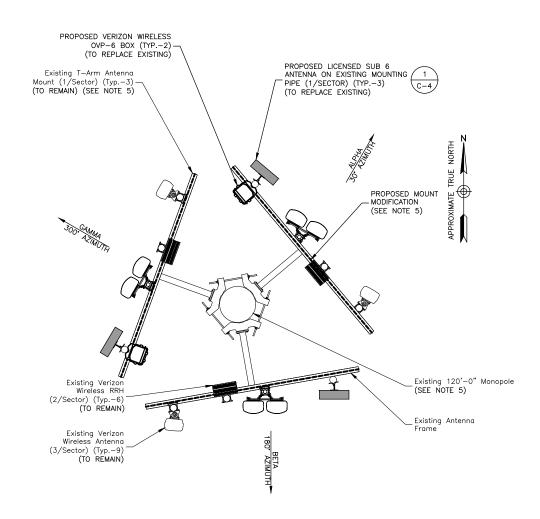
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C-2

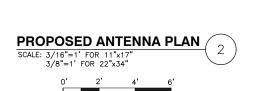






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SITE ADDRESS:

250 SILAS DEANE HIGHWAY WETHERSFIELD, CT 06109

SHEET TITLE

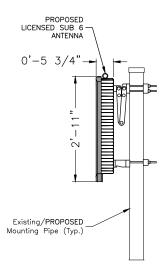
ANTENNA PLANS

SHEET NUMBER

C-3

GENERAL NOTES:

- 1. ALL DIMENSIONS TO, OF, AND ON EXISTING BUILDINGS, DRAINAGE STRUCTURES, AND SITE IMPROVEMENTS SHALL BE VERIFIED IN FIELD BY CONTRACTOR PRIOR TO ALL FABRICATION WITH ALL DISCREPANCIES REPORTED IMMEDIATELY TO THE ENGINEER.
- 2. DO NOT CHANGE SIZE NOR SPACING OF STRUCTURAL ELEMENTS.
- 3. DETAILS SHOWN ARE TYPICAL; SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.
- THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- 5. BRACE STRUCTURES UNTIL ALL STRUCTURAL ELEMENTS NEEDED FOR STABILITY ARE INSTALLED. THESE ELEMENTS ARE AS FOLLOWS: LATERAL BRACING, ANCHOR BOLTS, ETC.
- 6. DETERMINE EXACT LOCATION OF EXISTING UTILITIES, GROUNDS DRAINS, DRAIN PIPES, VENTS, ETC. BEFORE
- 7. INCORRECTLY FABRICATED, DAMAGED, OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE OWNER PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH REMEDIAL ACTION SHALL REQUIRE WRITTEN APPROVAL BY THE OWNER'S REPRESENTATIVE PRIOR TO PROCFEDING.
- 8. EACH CONTRACTOR SHALL COOPERATE WITH THE OWNER'S REPRESENTATIVE AND COORDINATE THEIR WORK WITH THE WORK OF OTHERS.
- 9. REPAIR ANY DAMAGE DURING CONSTRUCTION TO MATCH EXISTING PRE-CONSTRUCTION CONDITIONS TO THE SATISFACTION OF THE CONSTRUCTION MANAGER.
- 10. ALL CABLE/CONDUIT ENTRY/EXIT PORTS SHALL BE WEATHERPROOFED DURING INSTALLATION USING A
- 11. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
- 12. SEAL PENETRATIONS THROUGH FIRE RATED AREAS WITH UL LISTED D FIRE CODE APPROVED MATERIALS.
- 13. TURN OVER ALL SALVAGEABLE BUILDING MATERIAL TO BUILDING MANAGER.
- 14. ALL DISRUPTIVE WORK AND WORK WITHIN TENANT SPACES TO BE COORDINATED WITH BUILDING REPRESENTATIVE
- 15. ALL ROOF PENETRATIONS SHALL BE RESTORED TO MAINTAIN ALL ROOF WARRANTIES AND ENSURE A PERMANENT WATERPROOF SEAL.
- 16. CONTRACTOR SHALL NOTIFY THE ENGINEER A MINIMUM OF 48 HOURS IN ADVANCE PRIOR TO CONSTRUCTION START, MORE SPECIFICALLY BEFORE; SEALING ANY FLOOR, WALL OR ROOF PENETRATION, FINAL UTILITY CONNECTIONS, POURING CONCRETE, BACKFILLING UTILITY TRENCHES AND STRUCTURAL POSTS OR MOUNTING CONNECTIONS, FOR ENGINEERING REVIEW AND INSPECTION.



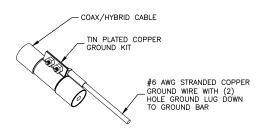
MANUFACTURER: TO BE DETERMINED

MODEL: LICENSED SUB 6

DIMENSIONS: 35.1"H X 19.7"W X 5.8"D (NOT TO EXCEED)

WEIGHT: 96.6 LBS (NOT TO EXCEED)

PIPE MOUNTED ANTENNA DETAIL SCALE: 3/8"=1' FOR 11"x17" 3/4"=1' FOR 22"x34" 0' 1' 2' 3'

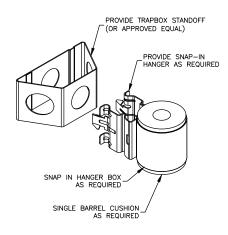


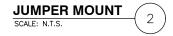
NOTES:

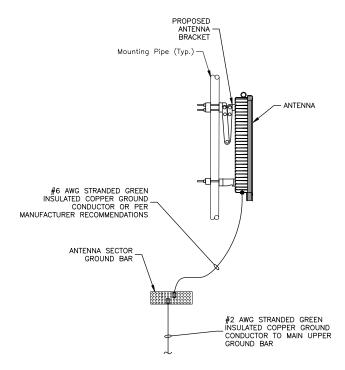
- 1. DO NOT INSTALL CABLE GROUND KIT AT A BEND. ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
- 2. GROUNDING KIT SHALL BE TIN PLATED COPPER WITH TWO-HOLE LUG, SIZE PER COAX DIAMETER.
- 3. WEATHER SEAL GROUND KIT PER CARRIER REQUIREMENTS.
- 4. COAX CABLE GROUND KIT LOCATION & QUANTITY SHALL BE PER CARRIER SPECIFICATIONS & STANDARDS.











NOTES:

- 1. VERIFY EXISTING GROUNDING SYSTEM IS INSTALLED PER VERIZON WIRELESS STANDARDS.
- BOND NEW EQUIPMENT INTO EXISTING GROUND SYSTEM IN ACCORDANCE WITH VERIZON WIRELESS STANDARDS AND MANUFACTURER'S RECOMMENDATIONS.

TYPICAL ANTENNA
GROUNDING DETAIL
SCALE: N.T.S

4



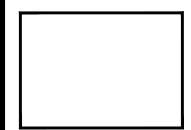
99 EAST RIVER DRIVE EAST HARTFORD, CT 06108

HARTFORD 9 CT ANTMO

С	ONSTRUC	CTIO	Ν	DRAV	VINGS
Α	01/05/21	FOR	CO	MMENT	



Dewberry Engineers Inc. 99 SUMMER STREET SUITE 700 BOSTON, MA 02110 PHONE: 617.695.3400 FAX: 617.695.3310



DRAWN BY:	JG
REVIEWED BY:	CDH
CHECKED BY:	BBR
PROJECT NUMBER:	50121487
JOB NUMBER:	50121823

SITE ADDRESS:

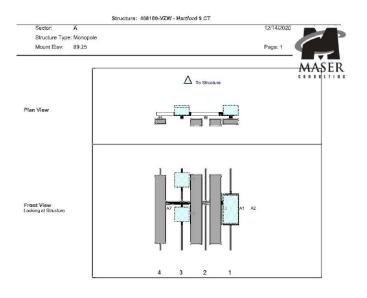
250 SILAS DEANE HIGHWAY WETHERSFIELD, CT 06109

SHEET TITLE

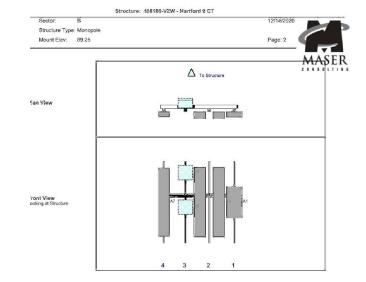
CONSTRUCTION DETAILS

SHEET NUMBER

C - 4



		Height	Width	H Dist	Pipe	Pipe	Ant	C. Ant	Ant		
Ref#	Model	(in)	(in)	Frm L.	#	Pos V	Pos	Frm T.	H Off	Status	Validation
A1	Licensed Sub 6 Antenna	32.1	16.1	77.5	1	a	Front	42.84	0	Added	
A2	DB-T1-6Z-12AB-0Z	28.9	15.7	77.5	1	а	Behind	42.72	0	Added	
АЗ	SBNHH-1D65B	72.6	11.9	51.5	2	а	Front	42.84	10	Retained	10/26/2020
АЗ	SBNHH-1D65B	72.6	11.9	51.5	2	b	Front	42.84	-10	Retained	10/26/2020
R6	B2/B66A RRH-BR049	16	15	26.6	3	a	Behind	12	0	Retained	10/26/2020
R6	B5/B13 RRH-BR04C	15	15	26.5	3	a	Behind	48	0	Retained	10/26/2020
A7	BXA-70063-6CF-EDIN-2	71	11.2	4	4	a	Front	42.84	0	Retained	10/26/2020

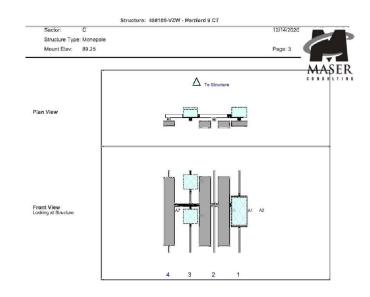


		Height	Width	H Dist	Pipe #	Pipe Pos V	Ant Pos	C. Ant	Ant		Validation
#	Model	(in)	(in)					Frm T.	H Off	Status	
	Licensed Sub 6 Antenna	32.1	16.1	77.5	1	а	Front	42.84	0	Added	
	SBNHH-1D65B	72.6	11.9	51.5	2	a	Front	42.84	10	Retained	10/26/2020
Ī	SBNHH-1D65B	72.6	11.9	51.5	2	b	Front	42.84	-10	Retained	10/26/2020
	B2/B66A RRH-BR049	15	15	26.5	3	a	Behind	12	0	Retained	10/26/2020
	B5/B13 RRH-BR04C	15	15	26.5	3	а	Behind	48	0	Retained	10/26/2020
Ī	BXA-70063-6CF-EDIN-2	71	11.2	4	4	8	Front	42.84	0	Retained	10/26/2020

ALPHA SECTOR SCALE: N.T.S.



2



		Height	Width	H Dist	Pipe	Pipe	Ant	C. Ant	Ant		
Ref#	Model	(in)	(in)	Frm L.	#	Pos V	Pos	Fm T.	H Off	Status	Validation
A1	Licensed Sub 6 Antenna	32.1	16.1	77.5	1	а	Front	42.84	0	Added	
A2	DB-T1-6Z-12AB-0Z	28.9	15.7	77.5	1	a	Behind	42.72	0	Added	
A3	SBNHH-1D65B	72.6	11.9	51.5	2	a	Front	42.84	10	Retained	10/26/2020
A3	SBNHH-1D65B	72.6	11.9	51.5	2	b	Front	42.84	-10	Retained	10/26/2020
R5	B2/B66A RRH-BR049	15	15	26.5	3	a	Behind	12	0	Retained	10/26/2020
R6	B5/B13 RRH-BR04C	15	15	26.5	3	a	Behind	48	0	Retained	10/26/2020
A7	BXA-70063-6CF-EDIN-2	71	11.2	4	4	a	Front	42.84	0	Retained	10/26/2020

NOTE:

1. SECTOR PLANS AND ELEVATIONS TAKEN FROM MOUNT ANALYSIS: SMART TOOL# 10022557, MASER PROJECT # 20777293A, FUZE # 16232035 BY MASER CONSULTING P.A. DATED 12/16/2020. GAMMA SECTOR
SCALE: N.T.S.



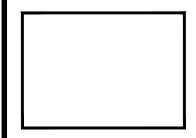
99 EAST RIVER DRIVE EAST HARTFORD, CT 06108

HARTFORD 9 CT ANTMO

С	ONSTRUC	CTIO	N DRAWINGS
Α	01/05/21	FOR	COMMENT



Dewberry Engineers Inc.
99 SUMMER STREET
SUITE 700
BOSTON, MA 02110
PHONE: 617.695.3400
FAX: 617.695.3310



DRAWN BY:	JU
REVIEWED BY:	CDI
CHECKED BY:	BBI
PROJECT NUMBER:	5012148
JOB NUMBER:	5012182

SITE	ADDRESS:
------	----------

250 SILAS DEANE HIGHWAY WETHERSFIELD, CT 06109

SHEET TITLE

SMART TOOL SECTOR PLANS & ELEVATION DETAILS

SHEET NUMBER

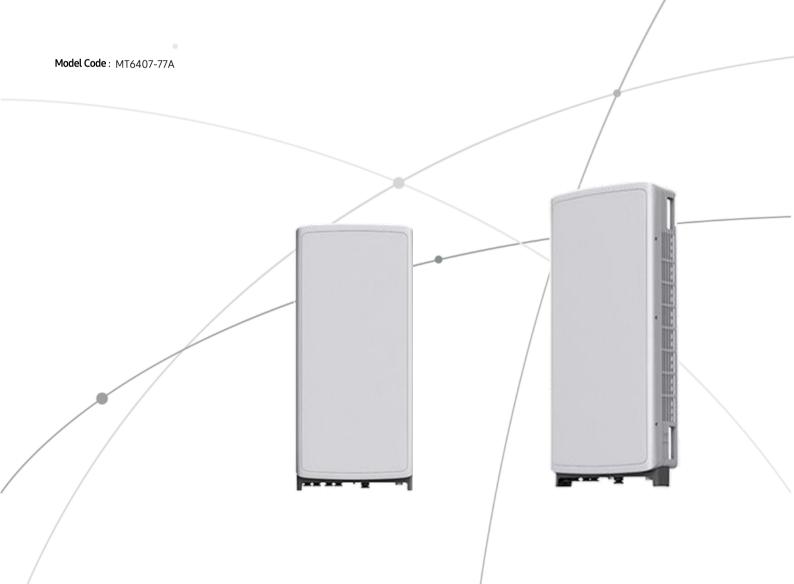
C - 5

SAMSUNG

SAMSUNG C-Band 64T64R Massive MIMO Radio

for High Capacity and Wide Coverage

Samsung C-Band 64T64R Massive MIMO Radio enables mobile operators to increase coverage range, boost data speeds and ultimately offer enriched 5G experiences to users in the U.S..



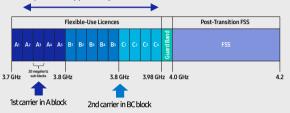
Points of Differentiation

Wide Bandwidth

With capability to support up to 2 CC carrier configuration, Samsung C-Band massive MIMO Radio supports 200 MHz bandwidth in the C-Band spectrum.

Samsung C-Band massive MIMO Radio covers the entire C-Band 280 MHz spectrum, so it can meet the operator's needs in current A block and future B/C blocks

C-Band spectrum supported by Massive MIMO Radio



Enhanced Performance

C-Band massive MIMO Radio creates sharp beams and extends networks' coverage on the critical mid-band spectrum using a large number of antenna elements and high output power to boost data speeds.

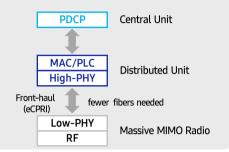
This helps operators reduce their CAPEX as they now need less products to cover the same area than before.

Furthermore, as C-Band massive MIMO Radio supports MU-MIMO(Multi-user MIMO), it enables to increase user throughput by minimizing interference.



Future Proof Product

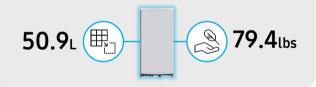
Samsung C-Band 64T64R Massive MIMO radio supports not only CPRI but also eCPRI as front-haul interface. It enables operators can cut down on OPEX/CAPEX by reducing front-haul bandwidth through low layer split and using ethernet based higher efficient line.



Well Matched Design

Samsung C-Band Massive MIMO radio utilizes 64 antennas, supports up to 280MHz bandwidth, and delivers a 200W output power. despite the above advanced performance, the Radio has a compact size of 50.9L and 79.4lbs. This makes it easy to install the Radio.

It is designed to look solid and compact, with a low profile appearance so that, when installed, harmonizes well with the surrounding environment..





Technical Specifications

Item	Specification
Tech	NR
Band	n77
Frequency Band	3700 - 3980 MHz
EIRP	78.5dBm (53.0 dBm+25.5 dBi)
IBW/OBW	280 MHz / 200 MHz
Installation	Pole/Wall
Size/ Weight	16.06 x 35.06 x 5.51 inch (50.86L)/ 79.4 lbs



About Samsung Electronics Co., Ltd.

Samsung inspires the world and shapes the future with transformative ideas and technologies. The company is redefining the worlds of TVs, smartphones, wearable devices, tablets, digital appliances, network systems, and memory, system LSI, foundry and LED solutions.

129 Samsung-ro, Yeongtong-gu, Suwon-si Gyeonggi-do, Korea

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ATTACHMENT 2

	General	Power	Density					
Site Name: Hartford 9 (Weth	ersfield)							
Tower Height: Verizon @ 90	ft							
CARRIER	# OF CHAN.	WATTS ERP	HEIGHT	CALC. POWER DENS	FREQ.	MAX. PERMISS. EXP.	FRACTION MPE	Total
T-Mobile	2	2057	105	1900	0.1510	1.0000	1.51%	
T-Mobile	2	2057	105	1900	0.1510	1.0000	1.51%	
T-Mobile	2	592	105	600	0.0434	0.4000	1.09%	
T-Mobile	1	1578	105	600	0.0579	0.4000	1.45%	
T-Mobile	2	649	105	700	0.0476	0.4667	1.02%	
T-Mobile	2	2204	105	1900	0.1617	1.0000	1.62%	
T-Mobile	2	1295	105	2100	0.0950	1.0000	0.95%	
T-Mobile	2	6413	105	2500	0.4706	1.0000	4.71%	
T-Mobile	2	6413	105	2500	0.4706	1.0000	4.71%	
Town of Weths	1	70	55	460.25	0.0105	0.3068	0.34%	
Town of Weths	1	100	110	45.86	0.0033	0.2000	0.17%	
Nextel	12	100	117	851	0.0350	0.5673	0.62%	
VZW 700	4	697	90	0.0048	751	0.5007	0.97%	
VZW Cellular	4	822	90	0.0057	874	0.5827	0.98%	
VZW PCS	4	1593	90	0.0110	1975	1.0000	1.10%	
VZW AWS	4	1571	90	0.0109	2120	1.0000	1.09%	
VZW CBAND	4	6531	90	0.0453	3730.005	1.0000	4.53%	
								28.35%
* Source: Siting Council								

ATTACHMENT 3





Maser Consulting Connecticut 2000 Midlantic Drive, Suite 100 Mt. Laurel, NJ 08054 856.797.0412 GDulnik@maserconsulting.com

Post-Mod Antenna Mount Analysis Report and PMI Requirements

Mount Fix

SMART Tool Project #: 10022557

Maser Consulting Connecticut Project #: 20777293A

December 16, 2020

<u>Site Information</u> Site ID: 468180-VZW / Hartford 9 CT

Site Name: Hartford 9 CT
Carrier Name: Verizon Wireless
Address: 250 Silas Deane Hwy

Wethersfield, Connecticut 06109

Hartford County

Latitude: 41.720597° Longitude: -72.666044°

<u>Structure Information</u> Tower Type: Monopole

Mount Type: 6.79-Ft T-Frame

FUZE ID # 16232035

Analysis Results

T-Frame: **55.4% Pass**

***Contractor PMI Requirements:

Included at the end of this MA report
Available & Submitted via portal at https://pmi.vzwsmart.com
Contractor - Please Review Specific Site PMI Requirements Upon Award
Requirements also Noted on Mount Modification Drawings
Requirements may also be Noted on A & E drawings

Report Prepared By: Carol Luengas



December 16, 2020 Site ID: 468180-VZW / Hartford 9 CT Page | 2

Executive Summary:

The objective of this report is to summarize the analysis results of the antenna support mount including the proposed modifications at the subject facility for the final wireless telecommunications configuration, per the applicable codes and standards.

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
Radio Frequency Data Sheet (RFDS)	Verizon RFDS Site ID: 674932, dated November 5, 2020
Mount Mapping Report	Delta Oaks Group, Site ID: 468180, dated October 26, 2020
Previous Mount Analysis	Maser Consulting Connecticut Project #: 20777293A Dated November 10, 2020
Mount Modification Drawings	Maser Consulting Connecticut Project #: 20777293A Dated December 16, 2020

Analysis Criteria:

Codes and Standards:	ANSI/TIA-222-H
Guuda anu Stanuarua.	MINO!/ IM=ZZZ=I

wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), Vult:	118 mpn
	Ice Wind Speed (3-sec. Gust):	50 mph

Design Ice Thickness:

Risk Category:

Exposure Category:

Topographic Category:

Topographic Feature Considered:

Topographic Method:

Ground Elevation Factor, Ke:

1.50 in

II

C

C

N/A

N/A

0.999

Seismic Parameters: S_S : 0.194 S_1 : 0.055

Maintenance Parameters: Wind Speed (3-sec. Gust): 30 mph

Maintenance Live Load, Lv: 250 lbs. Maintenance Live Load, Lm: 500 lbs.

Analysis Software: RISA-3D (V17)

December 16, 2020 Site ID: 468180-VZW / Hartford 9 CT Page | 3

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					
		3	-	nL-Sub6 Antenna	Added					
	88.63	2 RFS DB-T1-6Z-12A		DB-T1-6Z-12AB-0Z	Added					
89.25		88.63	6	Andrew	SBNHH-1D65B					
69.25			88.03	00.05	88.03	00.03	00.03	88.03	3	Samsung
		3	Samsung	B5/B13 RRH-BR04C	Retailled					
		3	Amphenol Antel	BXA-70063-6CF EDIN2						

Standard Conditions:

- All engineering services are performed on the basis that the information provided to Maser Consulting Connecticut 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 Maser Consulting Connecticut 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 by Maser Consulting Connecticut, 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.
- All services are performed, results obtained, and recommendations made in accordance with generally
 accepted engineering principles and practices. Maser Consulting Connecticut 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:

o Channel, Solid Round, Angle, Plate

o HSS (Rectangular)

o Pipe

o Threaded Rod

o Bolts

ASTM A36 (Gr. 36)

ASTM 500 (Gr. B-46)

ASTM A53 (Gr. B-35)

F1554 (Gr. 36)

ASTM A325

8. Any mount modifications listed under Sources of Information are assumed to have been installed per the design specifications.

Discrepancies between in-field conditions and the assumptions listed above may render this analysis invalid unless explicitly approved by Maser Consulting Connecticut.

Analysis Results:

Component	Utilization %	Pass/Fail
Antenna Pipe	33.5	Pass
Face Horizontal	22.9	Pass
Standoff Pipe	0.0	Pass
Standoff Arm	31.0	Pass
Connection Check	<i>55.4</i>	Pass
Proposed Face Horizontal	18.5	Pass
Proposed Standoff	28.5	Pass

Structure Rating – (Controlling Utilization of all Components)	55.4%
--	-------

Recommendation:

The existing mounts will be **SUFFICIENT** for the final loading after the proposed modifications are successfully completed.

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. Mount Photos
- 2. Mount Mapping Report (for reference only)
- 3. Analysis Calculations
- 4. Contractor Required PMI Report Deliverables
- 5. Antenna Placement Diagrams
- 6. TIA Adoption and Wind Speed Usage Letter



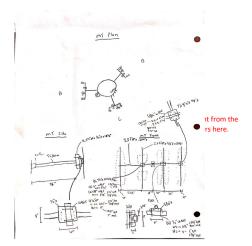






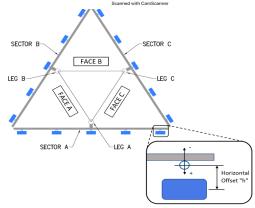
FCC# **Antenna Mount Mapping Form (PATENT PENDING)** Tower Owner: Town of Wethersfield Mapping Date: Site Name: Hartford 9 CT Tower Type: Monopole Site Number or ID: 468180 Tower Height (Ft.): Unknown Mapping Contractor: Delta Oaks Group Mount Elevation (Ft.):

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.



Mount Pipe Configuration and Geometries [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"x1/8"x85.625"	36.00	4.00	C1	2.4"x1/8"x85.625"	36.00	4.00	
A2	2.4"x1/8"x85.625"	36.00	26.50	C2	2.4"x1/8"x85.625"	36.00	26.50	
A3	2.4"x1/8"x85.625"	36.00	51.50	C3	2.4"x1/8"x85.625"	36.00	51.50	
A4	2.4"x1/8"x85.625"	36.00	77.50	C4	2.4"x1/8"x85.625"	36.00	77.50	
A5				C5				
A6				C6				
B1	2.4"x1/8"x85.625"	36.00	4.00	D1				
B2	2.4"x1/8"x85.625"	36.00	26.50	D2				
В3	2.4"x1/8"x85.625"	36.00	51.50	D3				
B4	2.4"x1/8"x85.625"	36.00	77.50	D4				
B5				D5				
В6				D6				
	Distance between bottom rai	l and moun	t CL elevati	on (dim d). Unit is inches. See 'Mount Elev Ref' tab fo	r details. :	0.00	
Distance from top of bottom support rail to lowest tip of ant./egpt. of Carrier above. (N/A if > 10 ft.):								
Distance from top of bottom support rail to highest tip of ant./eqpt. of Carrier below. (N/A if > 10 ft.):								
Please enter additional infomation or comments below.								
1) RRFDC-3315-PF-48 installed on the pole at 92'-6".								

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



		Enter antenna	a model.	If not label	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}	BXA-70063-6CF EDIN2	11.20	5.20	71.00	, (1) 1 1/4	89.25	36.00	9.50	45.00	89
	Ant _{1b}										
	Ant _{1c}										
	Ant _{2a}	SBNHH-1D65B	11.90	7.10	72.00		89.3333	35.00	10.00	45.00	89
	Ant _{2b}	SBNHH-1D65B	11.90	7.10	72.00		89.3333	35.00	10.00	45.00	89
	Ant _{2c}										
	Ant _{3a}	RADIO	15.75	12.00	15.25		91.2708	11.75	10.00		90
-	Ant _{3b}	RADIO	15.75	10.25	15.25		87.9167	52.00	10.00		90
	Ant _{3c}										
	Ant _{4a}	BXA-70063-6CF EDIN2	11.20	5.20	71.00		89.25	36.00	10.50	45.00	90
_	Ant _{4b}										
	Ant _{4c}										
ŗ	Ant _{5a}										
	Ant _{5b}										
	Ant _{5c}										
	Ant on										
	Standoff										
	Ant on Standoff										
	Ant on										
	Tower										
	Ant on										
	Tower										

្នំ ខ្	Antio 3	Antao 3	Antos & E	Antsa 📆	Antsu
ٔ اِمْ	ĝ,	3,	ž	<u>18</u>	
ļ cr	Antic	Anta	Antæ	Antec	Antac
		C3 C4		*	
	Anten	na Layout (Lo	oking Out Fro	om Tower)	

Mou	nt Azimuth	n (Degre	e)	Tower Leg Azimuth (Degree)						Sector E	l				
	for Each S			for Each Secto		Ant _{1a}	BXA-70063-6CF EDIN	11.20	5.20	71.00	, (1) 1 1/4	89.25	36.00	9.50	165.00	91
Sector A:	45.00		Leg A:		Deg	Ant _{1b}										
Sector B:	165.00		Leg B:		Deg	Ant _{1c}										
Sector C:	285.00		Leg C:		Deg	Ant _{2a}	SBNHH-1D65B	11.90	7.10	72.00		89.3333	35.00	10.00	165.00	86
Sector D:			Leg D:		Deg	Ant _{2b}	SBNHH-1D65B	11.90	7.10	72.00		89.3333	35.00	10.00	165.00	86
	220.00		bing Fac	cility Information		Ant _{2c}	DADIO.	45.75	12.00	45.25		04 2700	44.75	40.00		0.5
Location:	230.00	Deg osion Typ	20:	Outside Face B Good condition.		Ant _{3a}	RADIO RADIO	15.75 15.75	12.00 10.25	15.25 15.25		91.2708 87.9167	11.75 52.00	10.00		86 86
Climbing		Access:	pe.	Climbing path was unobstr	ıcted	Ant _{3b} Ant _{3c}	KADIO	15.75	10.25	15.25		87.9107	32.00	10.00		00
Facility		ndition:		Damaged safety cable.	acteu.	Ant _{4a}	BXA-70063-6CF EDIN	11.20	5.20	71.00		89.25	36.00	10.50	165.00	92
			rTD			Ant _{4b}										
١	4 .	4	11114			Ant _{4c}										
						Ant _{5a}										
4			3			Ant _{5b}										
l		7		TIP OF EQUIPMENT		Ant _{5c}										
				DISTANCE	SOUN TOD OF MAIN	Ant on Standoff										
_				PLATFORM OF ANT./I (N/A IF :	FROM TOP OF MAIN MEMBER TO LOWEST TIP OPT. OF CARRIER ABOVE. 10 FT.)	Ant on										
						Standoff										
튁	Ţ	J	TT4	DISTANCE	FROM TOP OF MAIN MEMBER TO HIGHEST TO	Ant on Tower										
EXISTING PLATFORM—	_			OF ANT./I (N/A IF :	FROM TOP OF MAIN MEMBER TO HIGHEST TIP OPT. OF CARRIER BELOW. 10 FT.)	Ant on										
[4 7	۱ ۲		IP OF EXPENSE		Tower					Sactor					
						Ant _{1a}	BXA-70063-6CF EDIN	11.20	5.20	71.00	Sector C , (1) 1 1/4	89.25	36.00	9.50	285.00	93
4		- 1	3	===		Ant _{1b}	BAA-70003-0CI EDINA	11.20	3.20	71.00	, (1) 1 1/-	83.23	30.00	3.30	203.00	33
l	J 4	JЩ				Ant _{1c}										
	_			_a_		Ant _{2a}	SBNHH-1D65B	11.90	7.10	72.00		89.3333	35.00	10.00	285.00	94
		l n		-1		Ant _{2b}	SBNHH-1D65B	11.90	7.10	72.00		89.3333	35.00	10.00	285.00	94
4	-		7	 		Ant _{2c}										
			==			Ant _{3a}	RADIO	15.75	12.00	15.25		91.2708	11.75	10.00		95
-11		a.	1	TIP OF EQUIPMENT		Ant _{3b}	RADIO	15.75	10.25	15.25		87.9167	52.00	10.00		95
				DISTANCE	EDOM TOD OF BOTTOM	Ant _{3c}										
				SUPPOR ANT./EO (N/A F	FROM TOP OF BOTTOM RAIL, TO LOWEST TIP OF T. OF CARRIER ABOVE. > 10 FT.)	Ant _{4a}	BXA-70063-6CF EDIN:	11.20	5.20	71.00		89.25	36.00	10.50	285.00	95
=						Ant _{4b}										
-	-	<u> </u>		Tr F'		Ant _{5a}										
EXISTING SECTOR FR	AME—	.	75	DISTANCE SUPPORT ANT./EQ	FROM TOP OF BOTTOM RAIL TO HIGHEST TIP OF T, OF CARRIER BELOW. > 10 FT.)	Ant _{5b}										
		ļ.	$\overline{}$	TIP OF EQUIPMENT	> 10 FT.)	Ant _{5c}										
] [1	7			Ant on										
		-		+		Standoff Ant on										
c.				<u> </u>		Standoff										
Ļ] [J	<u>/ LJ</u>	ļ		Ant on										
						Tower Ant on										
						Tower										
						Art					Sector D					
						Ant _{1a} Ant _{1b}										
						Ant _{1b}										
						Ant _{2a}										
						Ant _{2b}										
						Ant _{2c}										
						Ant _{3a}										
						Ant _{3b}										
						Ant _{3c}										
						Ant _{4a}										
						Ant _{4b}										
						Ant _{4c} Ant _{5a}										
						Ant _{5b}										
						Ant _{5c}										
						Ant on										
						Standoff										
						Ant on Standoff										
						Ant on										
						Tower Ant on										
						Tower										
							ety and Structural Issu									

		Observed Safety and Structural Issues During the Mount Mapping	
Is	sue #	Description of Issue	Photo #

1	The top safety cable connection looks like it is installed incorrectly.	39
2	Corrosion on the U-bolts on the mount.	94
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

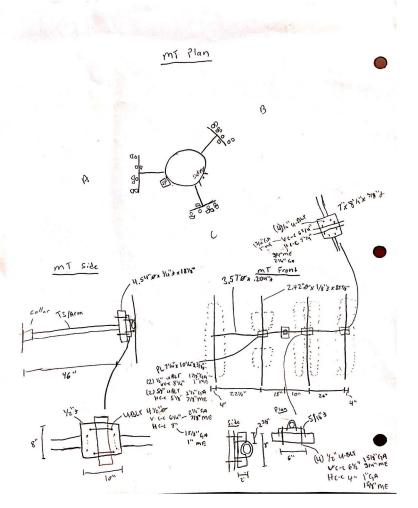
1. Obvious safety and structural issues/deficiencies noticed at the time of the mount mapping are to be reported in this mapping. However, this mount mapping is not a condition assessment of the mount.



Antenna Mount Mapping Form (PATENT PENDING)							
Tower Owner:	Town of Wethersfield	Mapping Date:	10/26	/2020			
Site Name:	Hartford 9 CT	Tower Type:	Mono	opole			
Site Number or ID:	468180	Tower Height (Ft.):	Unknown				
Mapping Contractor:		Mount Elevation (Ft.):		.25			

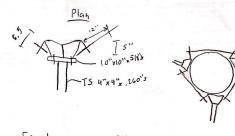
This antenna mapping form is the property of TES and under PATENT PENDING. The formation contained herein is considered confidential in nature and is to be used only for the specific customer it was intended for. Reproduction, transmission, publication, modification or disclosure by any method is prohibited 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.

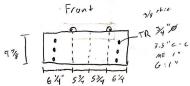
Please Insert Sketches of the Antenna Mount

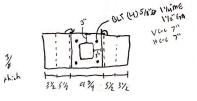


Scanned with CamScanner



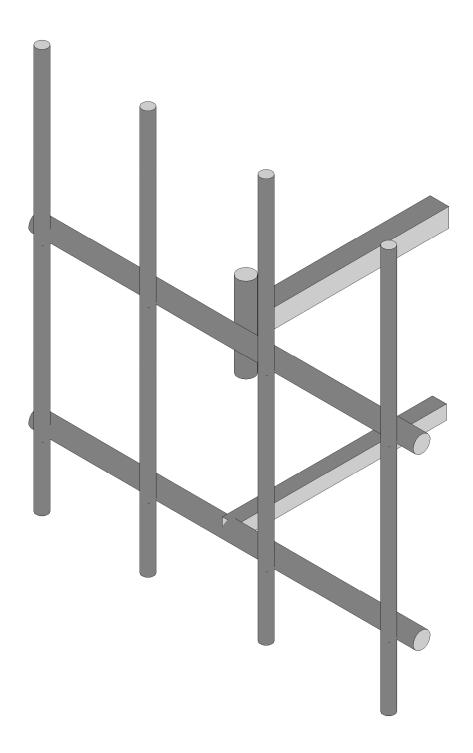






Scanned with CamScanner



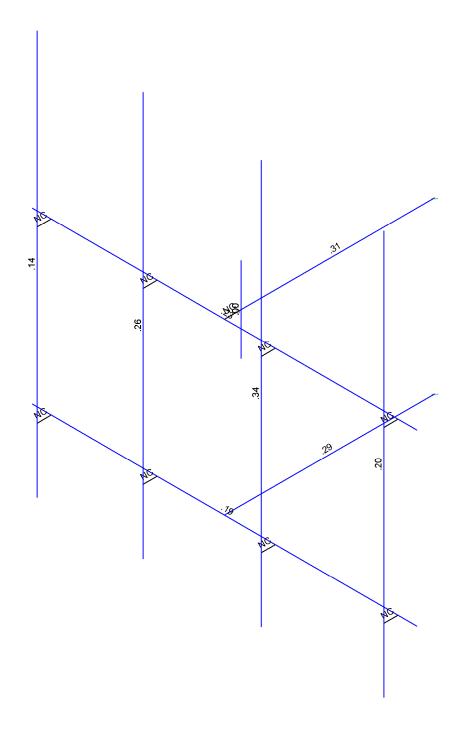


Envelope Only Solution

Maser Consulting		SK - 1
AE	468180-VZW_MT_LOT_SectorA_H	Dec 14, 2020 at 12:07 PM
Project No. 10022557		468180-VZW_MT_LOT_A_H_MOD







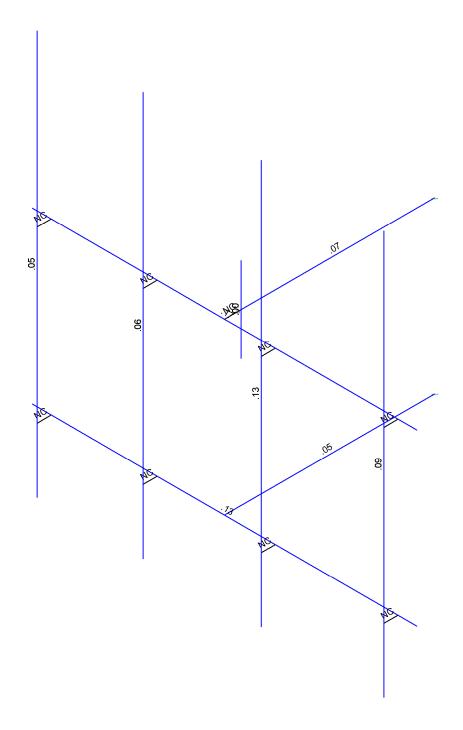
Member Code Checks Displayed (Enveloped) Envelope Only Solution

Maser Consulting		SK - 2
AE	468180-VZW_MT_LOT_SectorA_H	Dec 14, 2020 at 12:08 PM
Project No. 10022557		468180-VZW_MT_LOT_A_H_MOD

Page 2







Member Shear Checks Displayed (Enveloped) Envelope Only Solution

Maser Consulting		SK - 3
AE	468180-VZW_MT_LOT_SectorA_H	Dec 14, 2020 at 12:08 PM
Project No. 10022557		468180-VZW_MT_LOT_A_H_MOD



: Maser Consulting : AE

Project No. 10022557 468180-VZW_MT_LOT_SectorA_H Dec 14, 2020 12:08 PM Checked By: GM

Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed A	Area(Me	Surface(
1	Antenna D	None					33			1
2	Antenna Di	None					33			
3	Antenna Wo (0 Deg)	None					33			
4	Antenna Wo (30 Deg)	None					33			
5	Antenna Wo (60 Deg)	None					33			
6	Antenna Wo (90 Deg)	None					33			
7	Antenna Wo (120 Deg)	None					33			
8	Antenna Wo (150 Deg)	None					33			
9	Antenna Wo (180 Deg)	None					33			
10	Antenna Wo (210 Deg)	None					33			
11	Antenna Wo (240 Deg)	None					33			
12	Antenna Wo (270 Deg)	None					33			
13	Antenna Wo (300 Deg)	None					33			
14	Antenna Wo (330 Deg)	None					33			
15	Antenna Wi (0 Deg)	None					33			
16	Antenna Wi (30 Deg)	None					33			
17	Antenna Wi (60 Deg)	None					33			
18	Antenna Wi (90 Deg)	None					33			
19	Antenna Wi (120 Deg)	None					33			
20	Antenna Wi (150 Deg)	None					33			
21	Antenna Wi (180 Deg)	None					33			
22	Antenna Wi (210 Deg)	None					33			
23	Antenna Wi (240 Deg)	None					33			
24	Antenna Wi (270 Deg)	None					33			
25	Antenna Wi (300 Deg)	None					33			
26	Antenna Wi (330 Deg)	None					33			
27	Antenna Wm (0 Deg)	None					33			
28	Antenna Wm (30 Deg)	None					33			
29	Antenna Wm (60 Deg)	None					33			
30	Antenna Wm (90 Deg)	None					33			
31	Antenna Wm (120 Deg)	None					33			
32	Antenna Wm (120 Deg)	None					33			
33	Antenna Wm (180 Deg)	None					33			
34	Antenna Wm (100 Deg)	None					33			
35	Antenna Wm (240 Deg)	None					33			
36	Antenna Wm (270 Deg)	None					33			
37	Antenna Wm (300 Deg)	None					33			
38	Antenna Wm (330 Deg)	None					33			
39	Structure D	None		-1			JJ			
40	Structure Di	None		-1				9		
41	Structure Wo (0 Deg)	None								
42		None						18 18		
43	Structure Wo (30 Deg) Structure Wo (60 Deg)							18		
		None None						18		
44 45	Structure Wo (90 Deg) Structure Wo (120 Deg)									
		None						18		
46	Structure Wo (150 Deg)	None						18		
47	Structure Wo (180 Deg)	None						18		
48	Structure Wo (210 Deg)	None						18		
49	Structure Wo (240 Deg)	None						18		
	Structure Wo (270 Deg)	None						18		
51	Structure Wo (300 Deg)	None						18		
52	Structure Wo (330 Deg)	None						18		
53	Structure Wi (0 Deg)	None						18		



: Maser Consulting : AE

: Project No. 10022557 : 468180-VZW_MT_LOT_SectorA_H Dec 14, 2020 12:08 PM Checked By: GM

Basic Load Cases (Continued)

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me	Surface(
54	Structure Wi (30 Deg)	None						18	
55	Structure Wi (60 Deg)	None						18	
56	Structure Wi (90 Deg)	None						18	
57	Structure Wi (120 Deg)	None						18	
58	Structure Wi (150 Deg)	None						18	
59	Structure Wi (180 Deg)	None						18	
60	Structure Wi (210 Deg)	None						18	
61	Structure Wi (240 Deg)	None						18	
62	Structure Wi (270 Deg)	None						18	
63	Structure Wi (300 Deg)	None						18	
64	Structure Wi (330 Deg)	None						18	
65	Structure Wm (0 Deg)	None						18	
66	Structure Wm (30 Deg)	None						18	
67	Structure Wm (60 Deg)	None						18	
68	Structure Wm (90 Deg)	None						18	
69	Structure Wm (120 Deg)	None						18	
70	Structure Wm (150 Deg)	None						18	
71	Structure Wm (180 Deg)	None						18	
72	Structure Wm (210 Deg)	None						18	
73	Structure Wm (240 Deg)	None						18	
74	Structure Wm (270 Deg)	None						18	
75	Structure Wm (300 Deg)	None						18	
76	Structure Wm (330 Deg)	None						18	
77	Lm1	None					1		
78	Lm2	None					1		
79	Lv1	None					1		
80	Lv2	None					1		

Load Combinations

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



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: Project No. 10022557 : 468180-VZW_MT_LOT_SectorA_H Dec 14, 2020 12:08 PM Checked By: GM

Load Combinations (Continued)

		S BLO	CFac	BLCFac	BLC	Fac	BLC	ac	BLC	Fac	BLCF	acB	_CFac	.BLC	Fac.	BLC	Fac	BLC	Fac
26 1.2D + 1.5Lm1 + 1.0W		1	1.2	39 1.2	2 77	1.5	28	1	66	1									
27 1.2D + 1.5Lm1 + 1.0W	Yes Y	1	1.2	39 1.	2 77	1.5	29	1	67	1									
28 1.2D + 1.5Lm1 + 1.0W	Yes Y	1	1.2	39 1.	2 77	1.5	30	1	68	1									
29 1.2D + 1.5Lm1 + 1.0W	Yes Y	1	1.2	39 1.	2 77	1.5	31	1	69	1									
30 1.2D + 1.5Lm1 + 1.0W	Yes Y	1	1.2	39 1.2	2 77	1.5	32	1	70	1									
31 1.2D + 1.5Lm1 + 1.0W	Yes Y	1	1.2	39 1.	2 77	1.5	33	1	71	1									
32 1.2D + 1.5Lm1 + 1.0W	Yes Y	1	1.2	39 1.	2 77	1.5	34	1	72	1									
33 1.2D + 1.5Lm1 + 1.0W	Yes Y	1	1.2	39 1.	2 77	1.5	35	1	73	1									
34 1.2D + 1.5Lm1 + 1.0W	Yes Y	1	1.2	39 1.2	2 77	1.5	36	1	74	1									
35 1.2D + 1.5Lm1 + 1.0W	Yes Y	1	1.2	39 1.	2 77	1.5	37	1	75	1									
36 1.2D + 1.5Lm1 + 1.0W	Yes Y	1	1.2	39 1.	2 77	1.5	38	1	76	1									
37 1.2D + 1.5Lm2 + 1.0W	Yes Y	1	1.2	39 1.	2 78	1.5	27	1	65	1									
38 1.2D + 1.5Lm2 + 1.0W	Yes Y	1	1.2	39 1.	2 78	1.5	28	1	66	1									
39 1.2D + 1.5Lm2 + 1.0W	Yes Y	1	1.2	39 1.2	2 78	1.5	29	1	67	1									
40 1.2D + 1.5Lm2 + 1.0W		1	1.2	39 1.2	2 78	1.5	30	1	68	1									
41 1.2D + 1.5Lm2 + 1.0W	Yes Y	1	1.2	39 1.2	2 78	1.5	31	1	69	1									
42 1.2D + 1.5Lm2 + 1.0W		1	1.2	39 1.2	2 78	1.5	32	1	70	1									
43 1.2D + 1.5Lm2 + 1.0W	Yes Y	1	1.2	39 1.2	2 78	1.5	33	1	71	1									
44 1.2D + 1.5Lm2 + 1.0W		1	1.2	39 1.2	2 78	1.5	34	1	72	1									
45 1.2D + 1.5Lm2 + 1.0W		1	1.2	39 1.2	2 78	1.5	35	1	73	1									
46 1.2D + 1.5Lm2 + 1.0W	Yes Y	1	1.2	39 1.2	2 78	1.5	36	1	74	1									
47 1.2D + 1.5Lm2 + 1.0W	Yes Y	1	1.2	39 1.2	2 78	1.5	37	1	75	1									
48 1.2D + 1.5Lm2 + 1.0W	Yes Y	1	1.2	39 1.2	2 78	1.5	38	1	76	1									
	Yes Y	1	1.2	39 1.2	2 79	1.5													
50 1.2D + 1.5Lv2	Yes Y	1	1.2	39 1.2	2 80	1.5													
	Yes Y	1	1.4	39 1.4	4														
52 Seismic Mass	Y	1	1	39 1															
53 1.2D + 1.0Ev + 1.0Eh (. Y	1	1.2		2 SX		SY	1	SZ	-1									
54 1.2D + 1.0Ev + 1.0Eh (. Y	1	1.2		2 SX		SY	1	_	866									
55 1.2D + 1.0Ev + 1.0Eh (. Y	1	1.2	39 1.2		.866		1	SZ	5									
56 1.2D + 1.0Ev + 1.0Eh (. Y	1	1.2	39 1.2			SY	1	SZ										
57 1.2D + 1.0Ev + 1.0Eh (. Y	1	1.2	39 1.2	2 SX	.866	SY	1	SZ	.5									
58 1.2D + 1.0Ev + 1.0Eh (. Y	1	1.2	39 1.2			SY	1		.866									
59 1.2D + 1.0Ev + 1.0Eh (. Y	1	1.2	39 1.2			SY	1	SZ	1									
60 1.2D + 1.0Ev + 1.0Eh (. Y	1	1.2		2 SX			1	_	.866									
61 1.2D + 1.0Ev + 1.0Eh (. Y	1	1.2		2 SX			1	SZ	.5									
62 1.2D + 1.0Ev + 1.0Eh (. Y	1	1.2	39 1.2	2 SX		SY	1	SZ										
63 1.2D + 1.0Ev + 1.0Eh (. Y	1	1.2	39 1.2		866		1	SZ										
64 1.2D + 1.0Ev + 1.0Eh (. Y	1	1.2	39 1.2	2 SX	5	SY	1	SZ	866									

Joint Coordinates and Temperatures

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap
1	N1	0	0	-1.510417	0	
2	N2	0	0	1.90625	0	
3	N3	0	75	1.90625	0	
4	N4	0	.75	1.90625	0	
5	N5	0	0	2.197917	0	
6	N6	3.395833	0	2.197917	0	
7	N7	-3.395833	0	2.197917	0	
8	N15	-3.0625	0	2.197917	0	
9	N16	-3.0625	0	2.447917	0	
10	N17	-3.0625	3	2.447917	0	
11	N18	-3.0625	-4.135417	2.447917	0	
12	N21	0	375	1.90625	0	
13	N16A	-1.1875	0	2.197917	0	



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Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap
14	N17A	-1.1875	0	2.447917	0	
15	N18A	-1.1875	3	2.447917	0	
16	N19	-1.1875	-4.135417	2.447917	0	
17	N24	0.895833	0	2.197917	0	
18	N25	0.895833	0	2.447917	0	
19	N26	0.895833	3	2.447917	0	
20	N27	0.895833	-4.135417	2.447917	0	
21	N28	3.0625	0	2.197917	0	
22	N29	3.0625	0	2.447917	0	
23	N30	3.0625	3	2.447917	0	
24	N31	3.0625	-4.135417	2.447917	0	
25	N25A	-3.0625	-0.56875	2.447917	0	
26	N26A	-3.0625	1.43125	2.447917	0	
27	N27A	-3.0625	-2.56875	2.447917	0	
28	N28A	-3.0625	0.43125	2.447917	0	
29	N29A	-3.0625	-1.56875	2.447917	0	
30	N30A	-1.1875	-1	2.447917	0	
31	N31A	-1.1875	2	2.447917	0	
32	N32	0	-3	-1.510417	0	
33	N33	0	-3	1.90625	0	
34	N34	0	-3	2.197917	0	
35	N35	3.395833	-3	2.197917	0	
36	N36	-3.395833	-3	2.197917	0	
37	N37	-3.0625	-3	2.197917	0	
38	N38	-3.0625	-3	2.447917	0	
39	N39	-1.1875	-3	2.197917	0	
40	N40	-1.1875	-3	2.447917	0	
41	N41	0.895833	-3	2.197917	0	
42	N42	0.895833	-3	2.447917	0	
43	N43	3.0625	-3	2.197917	0	
44	N44	3.0625	-3	2.447917	0	

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design	A [in2]	lyy [in4]	Izz [in4]	J [in4]
1	Antenna Pipe	PIPE 2.0	Column	Pipe	A53 Gr. B	Typical	1.02	.627	.627	1.25
2	Standoff Arm	HSS4X4X4	Beam	Tube	A500 Gr.46	Typical	3.37	7.8	7.8	12.8
3	Standoff Pipe	PIPE 3.0	Column	Pipe	A53 Gr. B	Typical	2.07	2.85	2.85	5.69
4	Horizontal	PIPE 3.0	Column	Pipe	A53 Gr. B	Typical	2.07	2.85	2.85	5.69
5	Reinforcement Arm	HSS3X3X4	Column	Tube	A500 Gr.46	Typical	2.44	3.02	3.02	5.08

Hot Rolled Steel Properties

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



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Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(d	Section/Shape	Туре	Design List	Material	Design Rul
1	M1	N1	N2		,	Standoff Arm	Beam	Tube	A500 Gr	Typical
2	M2	N4	N3			Standoff Pipe	Column	Pipe	A53 Gr. B	Typical
3	M4	N7	N6			Horizontal	Column	Pipe	A53 Gr. B	Typical
4	MP4A	N17	N18			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
5	M10	N15	N16			RIGID	None	None	RIGID	Typical
6	M10A	N2	N5			RIGID	None	None	RIGID	Typical
7	MP3A	N18A	N19			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
8	M10B	N16A	N17A			RIGID	None	None	RIGID	Typical
9	MP2A	N26	N27			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
10	M14	N24	N25			RIGID	None	None	RIGID	Typical
11	MP1A	N30	N31			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
12	M16	N28	N29			RIGID	None	None	RIGID	Typical
13	M13	N32	N34			Reinforcement Arm	Column	Tube	A500 Gr	Typical
14	M14A	N36	N35			Horizontal	Column	Pipe	A53 Gr. B	Typical
15	M15	N37	N38			RIGID	None	None	RIGID	Typical
16	M17	N39	N40			RIGID	None	None	RIGID	Typical
17	M18	N41	N42			RIGID	None	None	RIGID	Typical
18	M19	N43	N44			RIGID	None	None	RIGID	Typical

Member Advanced Data

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl RatAnalysis	Inactive	Seismic
1	M1						Yes	Default		None
2	M2						Yes	** NA **		None
3	M4						Yes	** NA **		None
4	MP4A						Yes	** NA **		None
5	M10						Yes	** NA **		None
6	M10A	0000X0					Yes	** NA **		None
7	MP3A						Yes	** NA **		None
8	M10B						Yes	** NA **		None
9	MP2A						Yes	** NA **		None
10	M14						Yes	** NA **		None
11	MP1A						Yes	** NA **		None
12	M16						Yes	** NA **		None
13	M13						Yes	** NA **		None
14	M14A						Yes	** NA **		None
15	M15						Yes	** NA **		None
16	M17						Yes	** NA **		None
17	M18		·				Yes	** NA **		None
18	M19						Yes	** NA **		None

Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	Υ	-43.55	2.57
2	MP1A	My	022	2.57
3	MP1A	Mz	0	2.57
4	MP1A	Υ	-43.55	4.57
5	MP1A	My	022	4.57
6	MP1A	Mz	0	4.57
7	MP1A	Υ	-26	3.56
8	MP1A	My	.024	3.56
9	MP1A	Mz	0	3.56
10	MP2A	Υ	-20	1.57
11	MP2A	My	013	1.57



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
12	MP2A	Mz	.017	1.57
13	MP2A	Υ	-20	5.57
14	MP2A	My	013	5.57
15	MP2A	Mz	.017	5.57
16	MP2A	Υ	-20	1.57
17	MP2A	My	013	1.57
18	MP2A	Mz	017	1.57
19	MP2A	Υ	-20	5.57
20	MP2A	My	013	5.57
21	MP2A	Mz	017	5.57
22	MP3A	Υ	-84.4	1
23	MP3A	My	.07	1
24	MP3A	Mz	0	1
25	MP3A	Υ	-70.3	4
26	MP3A	My	.053	4
27	MP3A	Mz	0	4
28	MP4A	Υ	-8.5	1.57
29	MP4A	My	004	1.57
30	MP4A	Mz	0	1.57
31	MP4A	Υ	-8.5	5.57
32	MP4A	My	004	5.57
33	MP4A	Mz	0	5.57

Member Point Loads (BLC 2 : Antenna Di)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	Υ	-49.799	2.57
2	MP1A	My	025	2.57
3	MP1A	Mz	0	2.57
4	MP1A	Υ	-49.799	4.57
5	MP1A	My	025	4.57
6	MP1A	Mz	0	4.57
7	MP1A	Υ	-114.024	3.56
8	MP1A	My	.105	3.56
9	MP1A	Mz	0	3.56
10	MP2A	Υ	-91.716	1.57
11	MP2A	My	061	1.57
12	MP2A	Mz	.076	1.57
13	MP2A	Υ	-91.716	5.57
14	MP2A	My	061	5.57
15	MP2A	Mz	.076	5.57
16	MP2A	Υ	-91.716	1.57
17	MP2A	My	061	1.57
18	MP2A	Mz	076	1.57
19	MP2A	Υ	-91.716	5.57
20	MP2A	My	061	5.57
21	MP2A	Mz	076	5.57
22	MP3A	Υ	-68.179	1
23	MP3A	My	.057	1
24	MP3A	Mz	0	1
25	MP3A	Y	-61.527	4
26	MP3A	My	.046	4
27	MP3A	Mz	0	4
28	MP4A	Y	-78.175	1.57
29	MP4A	My	033	1.57
30	MP4A	Mz	0	1.57
31	MP4A	Υ	-78.175	5.57



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Member Point Loads (BLC 2: Antenna Di) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
32	MP4A	My	033	5.57
33	MP4A	Mz	0	5.57

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X Z	0	2.57
2	MP1A	Z	-80.863	2.57
3	MP1A	Mx	0	2.57
4	MP1A	X	0	4.57
5	MP1A	Z	-80.863	4.57
6	MP1A	Mx	0	4.57
7	MP1A	X	0	3.56
8	MP1A	Z	-142.545	3.56
9	MP1A	Mx	0	3.56
10	MP2A	X	0	1.57
11	MP2A	Z	-153.452	1.57
12	MP2A	Mx	128	1.57
13	MP2A	X	0	5.57
14	MP2A	Z	-153.452	5.57
15	MP2A	Mx	128	5.57
16	MP2A	X	0	1.57
17	MP2A	Z	-153.452	1.57
18	MP2A	Mx	.128	1.57
19	MP2A	X	0	5.57
20	MP2A	Z	-153.452	5.57
21	MP2A	Mx	.128	5.57
22	MP3A	X	0	1
23	MP3A	Z	-70.332	1
24	MP3A	Mx	0	1
25	MP3A	X	0	4
26	MP3A	Z	-70.332	4
27	MP3A	Mx	0	4
28	MP4A	X	0	1.57
29	MP4A	Z	-142.357	1.57
30	MP4A	Mx	0	1.57
31	MP4A	Χ	0	5.57
32	MP4A	Z	-142.357	5.57
33	MP4A	Mx	0	5.57

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	Χ	34.21	2.57
2	MP1A	Z	-59.253	2.57
3	MP1A	Mx	017	2.57
4	MP1A	Χ	34.21	4.57
5	MP1A	Z	-59.253	4.57
6	MP1A	Mx	017	4.57
7	MP1A	X	65.249	3.56
8	MP1A	Z	-113.014	3.56
9	MP1A	Mx	.06	3.56
10	MP2A	Χ	70.229	1.57
11	MP2A	Z	-121.641	1.57
12	MP2A	Mx	148	1.57
13	MP2A	X	70.229	5.57
14	MP2A	Z	-121.641	5.57
15	MP2A	Mx	148	5.57



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
16	MP2A	Χ	70.229	1.57
17	MP2A	Z	-121.641	1.57
18	MP2A	Mx	.055	1.57
19	MP2A	X	70.229	5.57
20	MP2A	Z	-121.641	5.57
21	MP2A	Mx	.055	5.57
22	MP3A	X	32.251	1
23	MP3A	Z	-55.861	1
24	MP3A	Mx	.027	1
25	MP3A	X	31.135	4
26	MP3A	Z	-53.927	4
27	MP3A	Mx	.023	4
28	MP4A	X	63.158	1.57
29	MP4A	Z	-109.393	1.57
30	MP4A	Mx	026	1.57
31	MP4A	X	63.158	5.57
32	MP4A	Z	-109.393	5.57
33	MP4A	Mx	026	5.57

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	37.699	2.57
2	MP1A	Z	-21.765	2.57
3	MP1A	Mx	019	2.57
4	MP1A	Χ	37.699	4.57
5	MP1A	Z	-21.765	4.57
6	MP1A	Mx	019	4.57
7	MP1A	Х	92.146	3.56
8	MP1A	Z	-53.201	3.56
9	MP1A	Mx	.084	3.56
10	MP2A	Χ	99.136	1.57
11	MP2A	Z	-57.236	1.57
12	MP2A	Mx	114	1.57
13	MP2A	Χ	99.136	5.57
14	MP2A	Z	-57.236	5.57
15	MP2A	Mx	114	5.57
16	MP2A	X	99.136	1.57
17	MP2A	Z	-57.236	1.57
18	MP2A	Mx	018	1.57
19	MP2A	Χ	99.136	5.57
20	MP2A	Z	-57.236	5.57
21	MP2A	Mx	018	5.57
22	MP3A	Χ	45.764	1
23	MP3A	Z	-26.422	1
24	MP3A	Mx	.038	1
25	MP3A	Χ	39.962	4
26	MP3A	Z	-23.072	4
27	MP3A	Mx	.03	4
28	MP4A	Χ	81.61	1.57
29	MP4A	Z	-47.118	1.57
30	MP4A	Mx	034	1.57
31	MP4A	X	81.61	5.57
32	MP4A	Z	-47.118	5.57
33	MP4A	Mx	034	5.57



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	31.086	2.57
2	MP1A	Z	0	2.57
3	MP1A	Mx	016	2.57
4	MP1A	X	31.086	4.57
5	MP1A	Z	0	4.57
6	MP1A	Mx	016	4.57
7	MP1A	X	94.354	3.56
8	MP1A	Z	0	3.56
9	MP1A	Mx	.086	3.56
10	MP2A	X	101.479	1.57
11	MP2A	Z	0	1.57
12	MP2A	Mx	068	1.57
13	MP2A	X	101.479	5.57
14	MP2A	Z	0	5.57
15	MP2A	Mx	068	5.57
16	MP2A	X	101.479	1.57
17	MP2A	Z	0	1.57
18	MP2A	Mx	068	1.57
19	MP2A	X	101.479	5.57
20	MP2A	Z	0	5.57
21	MP2A	Mx	068	5.57
22	MP3A	X	47.014	1
23	MP3A	Z	0	1
24	MP3A	Mx	.039	1
25	MP3A	X	38.081	4
26	MP3A	Z	0	4
27	MP3A	Mx	.029	4
28	MP4A	X	78.195	1.57
29	MP4A	Z	0	1.57
30	MP4A	Mx	033	1.57
31	MP4A	X	78.195	5.57
32	MP4A	Z	0	5.57
33	MP4A	Mx	033	5.57

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	37.699	2.57
2	MP1A	Z	21.765	2.57
3	MP1A	Mx	019	2.57
4	MP1A	X	37.699	4.57
5	MP1A	Z	21.765	4.57
6	MP1A	Mx	019	4.57
7	MP1A	X	92.146	3.56
8	MP1A	Z	53.201	3.56
9	MP1A	Mx	.084	3.56
10	MP2A	X	99.136	1.57
11	MP2A	Z	57.236	1.57
12	MP2A	Mx	018	1.57
13	MP2A	X	99.136	5.57
14	MP2A	Z	57.236	5.57
15	MP2A	Mx	018	5.57
16	MP2A	X	99.136	1.57
17	MP2A	Z	57.236	1.57
18	MP2A	Mx	114	1.57
19	MP2A	X	99.136	5.57
20	MP2A	Z	57.236	5.57



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
21	MP2A	Mx	114	5.57
22	MP3A	Χ	45.764	1
23	MP3A	Z	26.422	1
24	MP3A	Mx	.038	1
25	MP3A	X	39.962	4
26	MP3A	Z	23.072	4
27	MP3A	Mx	.03	4
28	MP4A	X	81.61	1.57
29	MP4A	Z	47.118	1.57
30	MP4A	Mx	034	1.57
31	MP4A	X	81.61	5.57
32	MP4A	Z	47.118	5.57
33	MP4A	Mx	034	5.57

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	34.21	2.57
2	MP1A	Z	59.253	2.57
3	MP1A	Mx	017	2.57
4	MP1A	X	34.21	4.57
5	MP1A	Z	59.253	4.57
6	MP1A	Mx	017	4.57
7	MP1A	X	65.249	3.56
8	MP1A	Z	113.014	3.56
9	MP1A	Mx	.06	3.56
10	MP2A	X	70.229	1.57
11	MP2A	Z	121.641	1.57
12	MP2A	Mx	.055	1.57
13	MP2A	Х	70.229	5.57
14	MP2A	Z	121.641	5.57
15	MP2A	Mx	.055	5.57
16	MP2A	X	70.229	1.57
17	MP2A	Z	121.641	1.57
18	MP2A	Mx	148	1.57
19	MP2A	X	70.229	5.57
20	MP2A	Z	121.641	5.57
21	MP2A	Mx	148	5.57
22	MP3A	X	32.251	1
23	MP3A	Z	55.861	1
24	MP3A	Mx	.027	1
25	MP3A	X	31.135	4
26	MP3A	Z	53.927	4
27	MP3A	Mx	.023	4
28	MP4A	X	63.158	1.57
29	MP4A	Z	109.393	1.57
30	MP4A	Mx	026	1.57
31	MP4A	X	63.158	5.57
32	MP4A	Z	109.393	5.57
33	MP4A	Mx	026	5.57

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	2.57
2	MP1A	Z	80.863	2.57
3	MP1A	Mx	0	2.57
4	MP1A	X	0	4.57



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
5	MP1A	Z	80.863	4.57
6	MP1A	Mx	0	4.57
7	MP1A	X	0	3.56
8	MP1A	Z	142.545	3.56
9	MP1A	Mx	0	3.56
10	MP2A	X	0	1.57
11	MP2A	Z	153.452	1.57
12	MP2A	Mx	.128	1.57
13	MP2A	X	0	5.57
14	MP2A	Z	153.452	5.57
15	MP2A	Mx	.128	5.57
16	MP2A	X	0	1.57
17	MP2A	Z	153.452	1.57
18	MP2A	Mx	128	1.57
19	MP2A	X	0	5.57
20	MP2A	Z	153.452	5.57
21	MP2A	Mx	128	5.57
22	MP3A	X	0	1
23	MP3A	Z	70.332	1
24	MP3A	Mx	0	1
25	MP3A	X	0	4
26	MP3A	Z	70.332	4
27	MP3A	Mx	0	4
28	MP4A	X	0	1.57
29	MP4A	Z	142.357	1.57
30	MP4A	Mx	0	1.57
31	MP4A	X	0	5.57
32	MP4A	Z	142.357	5.57
33	MP4A	Mx	0	5.57

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-34.21	2.57
2	MP1A	Ζ	59.253	2.57
3	MP1A	Mx	.017	2.57
4	MP1A	X	-34.21	4.57
5	MP1A	Z	59.253	4.57
6	MP1A	Mx	.017	4.57
7	MP1A	Χ	-65.249	3.56
8	MP1A	Z	113.014	3.56
9	MP1A	Mx	06	3.56
10	MP2A	X	-70.229	1.57
11	MP2A	Z	121.641	1.57
12	MP2A	Mx	.148	1.57
13	MP2A	X	-70.229	5.57
14	MP2A	Z	121.641	5.57
15	MP2A	Mx	.148	5.57
16	MP2A	X	-70.229	1.57
17	MP2A	Z	121.641	1.57
18	MP2A	Mx	055	1.57
19	MP2A	X	-70.229	5.57
20	MP2A	Z	121.641	5.57
21	MP2A	Mx	055	5.57
22	MP3A	X	-32.251	1
23	MP3A	Z	55.861	1
24	MP3A	Mx	027	1



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
25	MP3A	X	-31.135	4
26	MP3A	Z	53.927	4
27	MP3A	Mx	023	4
28	MP4A	X	-63.158	1.57
29	MP4A	Z	109.393	1.57
30	MP4A	Mx	.026	1.57
31	MP4A	X	-63.158	5.57
32	MP4A	Z	109.393	5.57
33	MP4A	Mx	.026	5.57

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-37.699	2.57
2	MP1A	Z	21.765	2.57
3	MP1A	Mx	.019	2.57
4	MP1A	Χ	-37.699	4.57
5	MP1A	Z	21.765	4.57
6	MP1A	Mx	.019	4.57
7	MP1A	X	-92.146	3.56
8	MP1A	Z	53.201	3.56
9	MP1A	Mx	084	3.56
10	MP2A	X	-99.136	1.57
11	MP2A	Z	57.236	1.57
12	MP2A	Mx	.114	1.57
13	MP2A	X	-99.136	5.57
14	MP2A	Z	57.236	5.57
15	MP2A	Mx	.114	5.57
16	MP2A	Х	-99.136	1.57
17	MP2A	Z	57.236	1.57
18	MP2A	Mx	.018	1.57
19	MP2A	Χ	-99.136	5.57
20	MP2A	Z	57.236	5.57
21	MP2A	Mx	.018	5.57
22	MP3A	Х	-45.764	1
23	MP3A	Z	26.422	1
24	MP3A	Mx	038	1
25	MP3A	Χ	-39.962	4
26	MP3A	Z	23.072	4
27	MP3A	Mx	03	4
28	MP4A	Х	-81.61	1.57
29	MP4A	Z	47.118	1.57
30	MP4A	Mx	.034	1.57
31	MP4A	Х	-81.61	5.57
32	MP4A	Z	47.118	5.57
33	MP4A	Mx	.034	5.57

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-31.086	2.57
2	MP1A	Z	0	2.57
3	MP1A	Mx	.016	2.57
4	MP1A	X	-31.086	4.57
5	MP1A	Z	0	4.57
6	MP1A	Mx	.016	4.57
7	MP1A	X	-94.354	3.56
8	MP1A	Z	0	3.56

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
9	MP1A	Mx	086	3.56
10	MP2A	Χ	-101.479	1.57
11	MP2A	Z	0	1.57
12	MP2A	Mx	.068	1.57
13	MP2A	Χ	-101.479	5.57
14	MP2A	Z	0	5.57
15	MP2A	Mx	.068	5.57
16	MP2A	Χ	-101.479	1.57
17	MP2A	Z	0	1.57
18	MP2A	Mx	.068	1.57
19	MP2A	Χ	-101.479	5.57
20	MP2A	Z	0	5.57
21	MP2A	Mx	.068	5.57
22	MP3A	Χ	-47.014	1
23	MP3A	Z	0	1
24	MP3A	Mx	039	1
25	MP3A	Χ	-38.081	4
26	MP3A	Z	0	4
27	MP3A	Mx	029	4
28	MP4A	Χ	-78.195	1.57
29	MP4A	Z	0	1.57
30	MP4A	Mx	.033	1.57
31	MP4A	Χ	-78.195	5.57
32	MP4A	Z	0	5.57
33	MP4A	Mx	.033	5.57

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-37.699	2.57
2	MP1A	Z	-21.765	2.57
3	MP1A	Mx	.019	2.57
4	MP1A	X	-37.699	4.57
5	MP1A	Z	-21.765	4.57
6	MP1A	Mx	.019	4.57
7	MP1A	Х	-92.146	3.56
8	MP1A	Z	-53.201	3.56
9	MP1A	Mx	084	3.56
10	MP2A	Х	-99.136	1.57
11	MP2A	Z	-57.236	1.57
12	MP2A	Mx	.018	1.57
13	MP2A	Χ	-99.136	5.57
14	MP2A	Z	-57.236	5.57
15	MP2A	Mx	.018	5.57
16	MP2A	Χ	-99.136	1.57
17	MP2A	Z	-57.236	1.57
18	MP2A	Mx	.114	1.57
19	MP2A	X	-99.136	5.57
20	MP2A	Z	-57.236	5.57
21	MP2A	Mx	.114	5.57
22	MP3A	X	-45.764	1
23	MP3A	Z	-26.422	1
24	MP3A	Mx	038	1
25	MP3A	Χ	-39.962	4
26	MP3A	Z	-23.072	4
27	MP3A	Mx	03	4
28	MP4A	X	-81.61	1.57



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
29	MP4A	Z	-47.118	1.57
30	MP4A	Mx	.034	1.57
31	MP4A	Χ	-81.61	5.57
32	MP4A	Z	-47.118	5.57
33	MP4A	Mx	.034	5.57

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-34.21	2.57
2	MP1A	Z	-59.253	2.57
3	MP1A	Mx	.017	2.57
4	MP1A	X	-34.21	4.57
5	MP1A	Z	-59.253	4.57
6	MP1A	Mx	.017	4.57
7	MP1A	X	-65.249	3.56
8	MP1A	Z	-113.014	3.56
9	MP1A	Mx	06	3.56
10	MP2A	X	-70.229	1.57
11	MP2A	Z	-121.641	1.57
12	MP2A	Mx	055	1.57
13	MP2A	X	-70.229	5.57
14	MP2A	Z	-121.641	5.57
15	MP2A	Mx	055	5.57
16	MP2A	X	-70.229	1.57
17	MP2A	Z	-121.641	1.57
18	MP2A	Mx	.148	1.57
19	MP2A	X	-70.229	5.57
20	MP2A	Z	-121.641	5.57
21	MP2A	Mx	.148	5.57
22	MP3A	X	-32.251	1
23	MP3A	Z	-55.861	1
24	MP3A	Mx	027	1
25	MP3A	X	-31.135	4
26	MP3A	Z	-53.927	4
27	MP3A	Mx	023	4
28	MP4A	Χ	-63.158	1.57
29	MP4A	Z	-109.393	1.57
30	MP4A	Mx	.026	1.57
31	MP4A	Х	-63.158	5.57
32	MP4A	Z	-109.393	5.57
33	MP4A	Mx	.026	5.57

Member Point Loads (BLC 15: Antenna Wi (0 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	2.57
2	MP1A	Z	-17.343	2.57
3	MP1A	Mx	0	2.57
4	MP1A	X	0	4.57
5	MP1A	Z	-17.343	4.57
6	MP1A	Mx	0	4.57
7	MP1A	X	0	3.56
8	MP1A	Z	-30.745	3.56
9	MP1A	Mx	0	3.56
10	MP2A	X	0	1.57
11	MP2A	Z	-31.704	1.57
12	MP2A	Mx	026	1.57



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Member Point Loads (BLC 15: Antenna Wi (0 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
13	MP2A	X	0	5.57
14	MP2A	Z	-31.704	5.57
15	MP2A	Mx	026	5.57
16	MP2A	X	0	1.57
17	MP2A	Z	-31.704	1.57
18	MP2A	Mx	.026	1.57
19	MP2A	X	0	5.57
20	MP2A	Z	-31.704	5.57
21	MP2A	Mx	.026	5.57
22	MP3A	X	0	1
23	MP3A	Z	-16.286	1
24	MP3A	Mx	0	1
25	MP3A	X	0	4
26	MP3A	Z	-16.286	4
27	MP3A	Mx	0	4
28	MP4A	X	0	1.57
29	MP4A	Z	-29.584	1.57
30	MP4A	Mx	0	1.57
31	MP4A	X	0	5.57
32	MP4A	Z	-29.584	5.57
33	MP4A	Mx	0	5.57

Member Point Loads (BLC 16: Antenna Wi (30 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	7.451	2.57
2	MP1A	Z	-12.906	2.57
3	MP1A	Mx	004	2.57
4	MP1A	Х	7.451	4.57
5	MP1A	Ζ	-12.906	4.57
6	MP1A	Mx	004	4.57
7	MP1A	Χ	14.201	3.56
8	MP1A	Z	-24.598	3.56
9	MP1A	Mx	.013	3.56
10	MP2A	X	14.669	1.57
11	MP2A	Z	-25.407	1.57
12	MP2A	Mx	031	1.57
13	MP2A	X	14.669	5.57
14	MP2A	Z	-25.407	5.57
15	MP2A	Mx	031	5.57
16	MP2A	X	14.669	1.57
17	MP2A	Ζ	-25.407	1.57
18	MP2A	Mx	.011	1.57
19	MP2A	Χ	14.669	5.57
20	MP2A	Z	-25.407	5.57
21	MP2A	Mx	.011	5.57
22	MP3A	Χ	7.547	1
23	MP3A	Z	-13.072	1
24	MP3A	Mx	.006	1
25	MP3A	Χ	7.321	4
26	MP3A	Z	-12.68	4
27	MP3A	Mx	.005	4
28	MP4A	Х	13.319	1.57
29	MP4A	Z	-23.069	1.57
30	MP4A	Mx	006	1.57
31	MP4A	Х	13.319	5.57
32	MP4A	Z	-23.069	5.57



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Member Point Loads (BLC 16: Antenna Wi (30 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
33	MP4A	Mx	006	5.57

Member Point Loads (BLC 17 : Antenna Wi (60 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A		8.678	2.57
2	MP1A	X Z	-5.01	2.57
3	MP1A	Mx	004	2.57
4	MP1A	X	8.678	4.57
5	MP1A	Z	-5.01	4.57
6	MP1A	Mx	004	4.57
7	MP1A	X	20.541	3.56
8	MP1A	Z	-11.859	3.56
9	MP1A	Mx	.019	3.56
10	MP2A	X	21.309	1.57
11	MP2A	Z	-12.303	1.57
12	MP2A	Mx	024	1.57
13	MP2A	X	21.309	5.57
14	MP2A	Z	-12.303	5.57
15	MP2A	Mx	024	5.57
16	MP2A	X	21.309	1.57
17	MP2A	Z	-12.303	1.57
18	MP2A	Mx	004	1.57
19	MP2A	X	21.309	5.57
20	MP2A	Z	-12.303	5.57
21	MP2A	Mx	004	5.57
22	MP3A	X	11.009	1
23	MP3A	Z	-6.356	1
24	MP3A	Mx	.009	1
25	MP3A	X	9.833	4
26	MP3A	Z	-5.677	4
27	MP3A	Mx	.007	4
28	MP4A	X	17.965	1.57
29	MP4A	Z	-10.372	1.57
30	MP4A	Mx	007	1.57
31	MP4A	X	17.965	5.57
32	MP4A	Z	-10.372	5.57
33	MP4A	Mx	007	5.57

Member Point Loads (BLC 18: Antenna Wi (90 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	7.579	2.57
2	MP1A	Z	0	2.57
3	MP1A	Mx	004	2.57
4	MP1A	X	7.579	4.57
5	MP1A	Z	0	4.57
6	MP1A	Mx	004	4.57
7	MP1A	X	21.376	3.56
8	MP1A	Z	0	3.56
9	MP1A	Mx	.02	3.56
10	MP2A	X	22.239	1.57
11	MP2A	Z	0	1.57
12	MP2A	Mx	015	1.57
13	MP2A	X	22.239	5.57
14	MP2A	Z	0	5.57
15	MP2A	Mx	015	5.57
16	MP2A	X	22.239	1.57



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Member Point Loads (BLC 18: Antenna Wi (90 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
17	MP2A	Z	0	1.57
18	MP2A	Mx	015	1.57
19	MP2A	X	22.239	5.57
20	MP2A	Z	0	5.57
21	MP2A	Mx	015	5.57
22	MP3A	Χ	11.521	1
23	MP3A	Z	0	1
24	MP3A	Mx	.01	1
25	MP3A	X	9.711	4
26	MP3A	Z	0	4
27	MP3A	Mx	.007	4
28	MP4A	Χ	17.798	1.57
29	MP4A	Z	0	1.57
30	MP4A	Mx	007	1.57
31	MP4A	X	17.798	5.57
32	MP4A	Z	0	5.57
33	MP4A	Mx	007	5.57

Member Point Loads (BLC 19 : Antenna Wi (120 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	8.678	2.57
2	MP1A	Z	5.01	2.57
3	MP1A	Mx	004	2.57
4	MP1A	X	8.678	4.57
5	MP1A	Z	5.01	4.57
6	MP1A	Mx	004	4.57
7	MP1A	X	20.541	3.56
8	MP1A	Z	11.859	3.56
9	MP1A	Mx	.019	3.56
10	MP2A	X	21.309	1.57
11	MP2A	Z	12.303	1.57
12	MP2A	Mx	004	1.57
13	MP2A	X	21.309	5.57
14	MP2A	Z	12.303	5.57
15	MP2A	Mx	004	5.57
16	MP2A	X	21.309	1.57
17	MP2A	Z	12.303	1.57
18	MP2A	Mx	024	1.57
19	MP2A	X	21.309	5.57
20	MP2A	Z	12.303	5.57
21	MP2A	Mx	024	5.57
22	MP3A	X	11.009	1
23	MP3A	Z	6.356	1
24	MP3A	Mx	.009	1
25	MP3A	X	9.833	4
26	MP3A	Z	5.677	4
27	MP3A	Mx	.007	4
28	MP4A	X	17.965	1.57
29	MP4A	Z	10.372	1.57
30	MP4A	Mx	007	1.57
31	MP4A	X	17.965	5.57
32	MP4A	Z	10.372	5.57
33	MP4A	Mx	007	5.57

Member Point Loads (BLC 20 : Antenna Wi (150 Deg))

Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
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Member Point Loads (BLC 20: Antenna Wi (150 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	7.451	2.57
2	MP1A	Z	12.906	2.57
3	MP1A	Mx	004	2.57
4	MP1A	X	7.451	4.57
5	MP1A	Z	12.906	4.57
6	MP1A	Mx	004	4.57
7	MP1A	X	14.201	3.56
8	MP1A	Z	24.598	3.56
9	MP1A	Mx	.013	3.56
10	MP2A	X	14.669	1.57
11	MP2A	Z	25.407	1.57
12	MP2A	Mx	.011	1.57
13	MP2A	X	14.669	5.57
14	MP2A	Z	25.407	5.57
15	MP2A	Mx	.011	5.57
16	MP2A	X	14.669	1.57
17	MP2A	Z	25.407	1.57
18	MP2A	Mx	031	1.57
19	MP2A	X	14.669	5.57
20	MP2A	Z	25.407	5.57
21	MP2A	Mx	031	5.57
22	MP3A	X	7.547	1
23	MP3A	Z	13.072	1
24	MP3A	Mx	.006	1
25	MP3A	X	7.321	4
26	MP3A	Z	12.68	4
27	MP3A	Mx	.005	4
28	MP4A	X	13.319	1.57
29	MP4A	Z	23.069	1.57
30	MP4A	Mx	006	1.57
31	MP4A	X	13.319	5.57
32	MP4A	Z	23.069	5.57
33	MP4A	Mx	006	5.57

Member Point Loads (BLC 21: Antenna Wi (180 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	2.57
2	MP1A	Z	17.343	2.57
3	MP1A	Mx	0	2.57
4	MP1A	X	0	4.57
5	MP1A	Z	17.343	4.57
6	MP1A	Mx	0	4.57
7	MP1A	X	0	3.56
8	MP1A	Z	30.745	3.56
9	MP1A	Mx	0	3.56
10	MP2A	X	0	1.57
11	MP2A	Z	31.704	1.57
12	MP2A	Mx	.026	1.57
13	MP2A	X	0	5.57
14	MP2A	Z	31.704	5.57
15	MP2A	Mx	.026	5.57
16	MP2A	X	0	1.57
17	MP2A	Z	31.704	1.57
18	MP2A	Mx	026	1.57
19	MP2A	X	0	5.57
20	MP2A	Z	31.704	5.57

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Member Point Loads (BLC 21: Antenna Wi (180 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
21	MP2A	Mx	026	5.57
22	MP3A	Χ	0	1
23	MP3A	Z	16.286	1
24	MP3A	Mx	0	1
25	MP3A	X	0	4
26	MP3A	Z	16.286	4
27	MP3A	Mx	0	4
28	MP4A	Χ	0	1.57
29	MP4A	Z	29.584	1.57
30	MP4A	Mx	0	1.57
31	MP4A	X	0	5.57
32	MP4A	Z	29.584	5.57
33	MP4A	Mx	0	5.57

Member Point Loads (BLC 22 : Antenna Wi (210 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-7.451	2.57
2	MP1A	Z	12.906	2.57
3	MP1A	Mx	.004	2.57
4	MP1A	Χ	-7.451	4.57
5	MP1A	Z	12.906	4.57
6	MP1A	Mx	.004	4.57
7	MP1A	X	-14.201	3.56
8	MP1A	Z	24.598	3.56
9	MP1A	Mx	013	3.56
10	MP2A	Χ	-14.669	1.57
11	MP2A	Z	25.407	1.57
12	MP2A	Mx	.031	1.57
13	MP2A	Х	-14.669	5.57
14	MP2A	Z	25.407	5.57
15	MP2A	Mx	.031	5.57
16	MP2A	X	-14.669	1.57
17	MP2A	Z	25.407	1.57
18	MP2A	Mx	011	1.57
19	MP2A	Χ	-14.669	5.57
20	MP2A	Z	25.407	5.57
21	MP2A	Mx	011	5.57
22	MP3A	X	-7.547	1
23	MP3A	Z	13.072	1
24	MP3A	Mx	006	1
25	MP3A	X	-7.321	4
26	MP3A	Z	12.68	4
27	MP3A	Mx	005	4
28	MP4A	X	-13.319	1.57
29	MP4A	Z	23.069	1.57
30	MP4A	Mx	.006	1.57
31	MP4A	X	-13.319	5.57
32	MP4A	Z	23.069	5.57
33	MP4A	Mx	.006	5.57

Member Point Loads (BLC 23 : Antenna Wi (240 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-8.678	2.57
2	MP1A	Z	5.01	2.57
3	MP1A	Mx	.004	2.57
4	MP1A	X	-8.678	4.57



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Member Point Loads (BLC 23: Antenna Wi (240 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
5	MP1A	Z	5.01	4.57
6	MP1A	Mx	.004	4.57
7	MP1A	X	-20.541	3.56
8	MP1A	Z	11.859	3.56
9	MP1A	Mx	019	3.56
10	MP2A	X	-21.309	1.57
11	MP2A	Z	12.303	1.57
12	MP2A	Mx	.024	1.57
13	MP2A	X	-21.309	5.57
14	MP2A	Z	12.303	5.57
15	MP2A	Mx	.024	5.57
16	MP2A	X	-21.309	1.57
17	MP2A	Z	12.303	1.57
18	MP2A	Mx	.004	1.57
19	MP2A	X	-21.309	5.57
20	MP2A	Z	12.303	5.57
21	MP2A	Mx	.004	5.57
22	MP3A	X	-11.009	1
23	MP3A	Z	6.356	1
24	MP3A	Mx	009	1
25	MP3A	X	-9.833	4
26	MP3A	Z	5.677	4
27	MP3A	Mx	007	4
28	MP4A	X	-17.965	1.57
29	MP4A	Z	10.372	1.57
30	MP4A	Mx	.007	1.57
31	MP4A	X	-17.965	5.57
32	MP4A	Z	10.372	5.57
33	MP4A	Mx	.007	5.57

Member Point Loads (BLC 24 : Antenna Wi (270 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-7.579	2.57
2	MP1A	Z	0	2.57
3	MP1A	Mx	.004	2.57
4	MP1A	Χ	-7.579	4.57
5	MP1A	Z	0	4.57
6	MP1A	Mx	.004	4.57
7	MP1A	Χ	-21.376	3.56
8	MP1A	Z	0	3.56
9	MP1A	Mx	02	3.56
10	MP2A	Χ	-22.239	1.57
11	MP2A	Z	0	1.57
12	MP2A	Mx	.015	1.57
13	MP2A	X	-22.239	5.57
14	MP2A	Z	0	5.57
15	MP2A	Mx	.015	5.57
16	MP2A	Χ	-22.239	1.57
17	MP2A	Z	0	1.57
18	MP2A	Mx	.015	1.57
19	MP2A	Χ	-22.239	5.57
20	MP2A	Z	0	5.57
21	MP2A	Mx	.015	5.57
22	MP3A	Χ	-11.521	1
23	MP3A	Z	0	1
24	MP3A	Mx	01	1



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Member Point Loads (BLC 24: Antenna Wi (270 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
25	MP3A	X	-9.711	4
26	MP3A	Z	0	4
27	MP3A	Mx	007	4
28	MP4A	X	-17.798	1.57
29	MP4A	Z	0	1.57
30	MP4A	Mx	.007	1.57
31	MP4A	X	-17.798	5.57
32	MP4A	Z	0	5.57
33	MP4A	Mx	.007	5.57

Member Point Loads (BLC 25 : Antenna Wi (300 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-8.678	2.57
2	MP1A	Z	-5.01	2.57
3	MP1A	Mx	.004	2.57
4	MP1A	X	-8.678	4.57
5	MP1A	Z	-5.01	4.57
6	MP1A	Mx	.004	4.57
7	MP1A	Х	-20.541	3.56
8	MP1A	Z	-11.859	3.56
9	MP1A	Mx	019	3.56
10	MP2A	Х	-21.309	1.57
11	MP2A	Z	-12.303	1.57
12	MP2A	Mx	.004	1.57
13	MP2A	Х	-21.309	5.57
14	MP2A	Z	-12.303	5.57
15	MP2A	Mx	.004	5.57
16	MP2A	Х	-21.309	1.57
17	MP2A	Z	-12.303	1.57
18	MP2A	Mx	.024	1.57
19	MP2A	Х	-21.309	5.57
20	MP2A	Z	-12.303	5.57
21	MP2A	Mx	.024	5.57
22	MP3A	X	-11.009	1
23	MP3A	Z	-6.356	1
24	MP3A	Mx	009	1
25	MP3A	Χ	-9.833	4
26	MP3A	Z	-5.677	4
27	MP3A	Mx	007	4
28	MP4A	Х	-17.965	1.57
29	MP4A	Z	-10.372	1.57
30	MP4A	Mx	.007	1.57
31	MP4A	Χ	-17.965	5.57
32	MP4A	Z	-10.372	5.57
33	MP4A	Mx	.007	5.57

Member Point Loads (BLC 26: Antenna Wi (330 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-7.451	2.57
2	MP1A	Z	-12.906	2.57
3	MP1A	Mx	.004	2.57
4	MP1A	X	-7.451	4.57
5	MP1A	Z	-12.906	4.57
6	MP1A	Mx	.004	4.57
7	MP1A	X	-14.201	3.56
8	MP1A	Z	-24.598	3.56



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Member Point Loads (BLC 26: Antenna Wi (330 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
9	MP1A	Mx	013	3.56
10	MP2A	Χ	-14.669	1.57
11	MP2A	Z	-25.407	1.57
12	MP2A	Mx	011	1.57
13	MP2A	Χ	-14.669	5.57
14	MP2A	Z	-25.407	5.57
15	MP2A	Mx	011	5.57
16	MP2A	Χ	-14.669	1.57
17	MP2A	Z	-25.407	1.57
18	MP2A	Mx	.031	1.57
19	MP2A	Χ	-14.669	5.57
20	MP2A	Z	-25.407	5.57
21	MP2A	Mx	.031	5.57
22	MP3A	Χ	-7.547	1
23	MP3A	Z	-13.072	1
24	MP3A	Mx	006	1
25	MP3A	Χ	-7.321	4
26	MP3A	Z	-12.68	4
27	MP3A	Mx	005	4
28	MP4A	Χ	-13.319	1.57
29	MP4A	Z	-23.069	1.57
30	MP4A	Mx	.006	1.57
31	MP4A	Χ	-13.319	5.57
32	MP4A	Z	-23.069	5.57
33	MP4A	Mx	.006	5.57

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	2.57
2	MP1A	Z	-5.227	2.57
3	MP1A	Mx	0	2.57
4	MP1A	X	0	4.57
5	MP1A	Z	-5.227	4.57
6	MP1A	Mx	0	4.57
7	MP1A	Χ	0	3.56
8	MP1A	Z	-9.214	3.56
9	MP1A	Mx	0	3.56
10	MP2A	X	0	1.57
11	MP2A	Z	-9.919	1.57
12	MP2A	Mx	008	1.57
13	MP2A	Χ	0	5.57
14	MP2A	Z	-9.919	5.57
15	MP2A	Mx	008	5.57
16	MP2A	X	0	1.57
17	MP2A	Z	-9.919	1.57
18	MP2A	Mx	.008	1.57
19	MP2A	X	0	5.57
20	MP2A	Z	-9.919	5.57
21	MP2A	Mx	.008	5.57
22	MP3A	X	0	1
23	MP3A	Ζ	-4.546	1
24	MP3A	Mx	0	1
25	MP3A	Χ	0	4
26	MP3A	Z	-4.546	4
27	MP3A	Mx	0	4
28	MP4A	X	0	1.57



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
29	MP4A	Z	-9.201	1.57
30	MP4A	Mx	0	1.57
31	MP4A	Χ	0	5.57
32	MP4A	Z	-9.201	5.57
33	MP4A	Mx	0	5.57

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	2.211	2.57
2	MP1A	Z	-3.83	2.57
3	MP1A	Mx	001	2.57
4	MP1A	X	2.211	4.57
5	MP1A	Z	-3.83	4.57
6	MP1A	Mx	001	4.57
7	MP1A	X	4.217	3.56
8	MP1A	Z	-7.305	3.56
9	MP1A	Mx	.004	3.56
10	MP2A	X	4.539	1.57
11	MP2A	Z	-7.862	1.57
12	MP2A	Mx	01	1.57
13	MP2A	X	4.539	5.57
14	MP2A	Z	-7.862	5.57
15	MP2A	Mx	01	5.57
16	MP2A	X	4.539	1.57
17	MP2A	Z	-7.862	1.57
18	MP2A	Mx	.004	1.57
19	MP2A	X	4.539	5.57
20	MP2A	Z	-7.862	5.57
21	MP2A	Mx	.004	5.57
22	MP3A	X	2.085	1
23	MP3A	Z	-3.611	1
24	MP3A	Mx	.002	1
25	MP3A	X	2.012	4
26	MP3A	Z	-3.486	4
27	MP3A	Mx	.002	4
28	MP4A	X	4.082	1.57
29	MP4A	Z	-7.071	1.57
30	MP4A	Mx	002	1.57
31	MP4A	X	4.082	5.57
32	MP4A	Z	-7.071	5.57
33	MP4A	Mx	002	5.57

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	2.437	2.57
2	MP1A	Z	-1.407	2.57
3	MP1A	Mx	001	2.57
4	MP1A	X	2.437	4.57
5	MP1A	Z	-1.407	4.57
6	MP1A	Mx	001	4.57
7	MP1A	X	5.956	3.56
8	MP1A	Z	-3.439	3.56
9	MP1A	Mx	.005	3.56
10	MP2A	X	6.408	1.57
11	MP2A	Z	-3.7	1.57
12	MP2A	Mx	007	1.57



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
13	MP2A	X	6.408	5.57
14	MP2A	Z	-3.7	5.57
15	MP2A	Mx	007	5.57
16	MP2A	X	6.408	1.57
17	MP2A	Z	-3.7	1.57
18	MP2A	Mx	001	1.57
19	MP2A	X	6.408	5.57
20	MP2A	Z	-3.7	5.57
21	MP2A	Mx	001	5.57
22	MP3A	X	2.958	1
23	MP3A	Z	-1.708	1
24	MP3A	Mx	.002	1
25	MP3A	X	2.583	4
26	MP3A	Z	-1.491	4
27	MP3A	Mx	.002	4
28	MP4A	X	5.275	1.57
29	MP4A	Z	-3.046	1.57
30	MP4A	Mx	002	1.57
31	MP4A	X	5.275	5.57
32	MP4A	Z	-3.046	5.57
33	MP4A	Mx	002	5.57

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	Χ	2.009	2.57
2	MP1A	Z	0	2.57
3	MP1A	Mx	001	2.57
4	MP1A	Χ	2.009	4.57
5	MP1A	Z	0	4.57
6	MP1A	Mx	001	4.57
7	MP1A	Χ	6.099	3.56
8	MP1A	Z	0	3.56
9	MP1A	Mx	.006	3.56
10	MP2A	Χ	6.559	1.57
11	MP2A	Z	0	1.57
12	MP2A	Mx	004	1.57
13	MP2A	X	6.559	5.57
14	MP2A	Z	0	5.57
15	MP2A	Mx	004	5.57
16	MP2A	Χ	6.559	1.57
17	MP2A	Z	0	1.57
18	MP2A	Mx	004	1.57
19	MP2A	Χ	6.559	5.57
20	MP2A	Z	0	5.57
21	MP2A	Mx	004	5.57
22	MP3A	Χ	3.039	1
23	MP3A	Z	0	1
24	MP3A	Mx	.003	1
25	MP3A	Χ	2.461	4
26	MP3A	Z	0	4
27	MP3A	Mx	.002	4
28	MP4A	Χ	5.054	1.57
29	MP4A	Z	0	1.57
30	MP4A	Mx	002	1.57
31	MP4A	Χ	5.054	5.57
32	MP4A	Z	0	5.57



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
33		Mx	002	5.57

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	2.437	2.57
2	MP1A	Z	1.407	2.57
3	MP1A	Mx	001	2.57
4	MP1A	X	2.437	4.57
5	MP1A	Z	1.407	4.57
6	MP1A	Mx	001	4.57
7	MP1A	X	5.956	3.56
8	MP1A	Z	3.439	3.56
9	MP1A	Mx	.005	3.56
10	MP2A	X	6.408	1.57
11	MP2A	Z	3.7	1.57
12	MP2A	Mx	001	1.57
13	MP2A	X	6.408	5.57
14	MP2A	Z	3.7	5.57
15	MP2A	Mx	001	5.57
16	MP2A	X	6.408	1.57
17	MP2A	Z	3.7	1.57
18	MP2A	Mx	007	1.57
19	MP2A	X	6.408	5.57
20	MP2A	Z	3.7	5.57
21	MP2A	Mx	007	5.57
22	MP3A	X	2.958	1
23	MP3A	Z	1.708	1
24	MP3A	Mx	.002	1
25	MP3A	X	2.583	4
26	MP3A	Z	1.491	4
27	MP3A	Mx	.002	4
28	MP4A	X	5.275	1.57
29	MP4A	Z	3.046	1.57
30	MP4A	Mx	002	1.57
31	MP4A	X	5.275	5.57
32	MP4A	Z	3.046	5.57
33	MP4A	Mx	002	5.57

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	Χ	2.211	2.57
2	MP1A	Z	3.83	2.57
3	MP1A	Mx	001	2.57
4	MP1A	Χ	2.211	4.57
5	MP1A	Z	3.83	4.57
6	MP1A	Mx	001	4.57
7	MP1A	Χ	4.217	3.56
8	MP1A	Z	7.305	3.56
9	MP1A	Mx	.004	3.56
10	MP2A	Χ	4.539	1.57
11	MP2A	Z	7.862	1.57
12	MP2A	Mx	.004	1.57
13	MP2A	Χ	4.539	5.57
14	MP2A	Z	7.862	5.57
15	MP2A	Mx	.004	5.57
16	MP2A	Χ	4.539	1.57



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
17	MP2A	Z	7.862	1.57
18	MP2A	Mx	01	1.57
19	MP2A	Χ	4.539	5.57
20	MP2A	Z	7.862	5.57
21	MP2A	Mx	01	5.57
22	MP3A	Χ	2.085	1
23	MP3A	Z	3.611	1
24	MP3A	Mx	.002	1
25	MP3A	X	2.012	4
26	MP3A	Z	3.486	4
27	MP3A	Mx	.002	4
28	MP4A	Χ	4.082	1.57
29	MP4A	Z	7.071	1.57
30	MP4A	Mx	002	1.57
31	MP4A	X	4.082	5.57
32	MP4A	Z	7.071	5.57
33	MP4A	Mx	002	5.57

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	2.57
2	MP1A	Z	5.227	2.57
3	MP1A	Mx	0	2.57
4	MP1A	X	0	4.57
5	MP1A	Z	5.227	4.57
6	MP1A	Mx	0	4.57
7	MP1A	X	0	3.56
8	MP1A	Z	9.214	3.56
9	MP1A	Mx	0	3.56
10	MP2A	X	0	1.57
11	MP2A	Z	9.919	1.57
12	MP2A	Mx	.008	1.57
13	MP2A	X	0	5.57
14	MP2A	Z	9.919	5.57
15	MP2A	Mx	.008	5.57
16	MP2A	X	0	1.57
17	MP2A	Z	9.919	1.57
18	MP2A	Mx	008	1.57
19	MP2A	X	0	5.57
20	MP2A	Z	9.919	5.57
21	MP2A	Mx	008	5.57
22	MP3A	X	0	1
23	MP3A	Z	4.546	1
24	MP3A	Mx	0	1
25	MP3A	X	0	4
26	MP3A	Z	4.546	4
27	MP3A	Mx	0	4
28	MP4A	X	0	1.57
29	MP4A	Z	9.201	1.57
30	MP4A	Mx	0	1.57
31	MP4A	X	0	5.57
32	MP4A	Z	9.201	5.57
33	MP4A	Mx	0	5.57

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

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



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-2.211	2.57
2	MP1A	Z	3.83	2.57
3	MP1A	Mx	.001	2.57
4	MP1A	X	-2.211	4.57
5	MP1A	Z	3.83	4.57
6	MP1A	Mx	.001	4.57
7	MP1A	X	-4.217	3.56
8	MP1A	Z	7.305	3.56
9	MP1A	Mx	004	3.56
10	MP2A	X	-4.539	1.57
11	MP2A	Z	7.862	1.57
12	MP2A	Mx	.01	1.57
13	MP2A	X	-4.539	5.57
14	MP2A	Z	7.862	5.57
15	MP2A	Mx	.01	5.57
16	MP2A	X	-4.539	1.57
17	MP2A	Z	7.862	1.57
18	MP2A	Mx	004	1.57
19	MP2A	X	-4.539	5.57
20	MP2A	Z	7.862	5.57
21	MP2A	Mx	004	5.57
22	MP3A	X	-2.085	1
23	MP3A	Z	3.611	1
24	MP3A	Mx	002	1
25	MP3A	X	-2.012	4
26	MP3A	Z	3.486	4
27	MP3A	Mx	002	4
28	MP4A	X	-4.082	1.57
29	MP4A	Z	7.071	1.57
30	MP4A	Mx	.002	1.57
31	MP4A	X	-4.082	5.57
32	MP4A	Z	7.071	5.57
33	MP4A	Mx	.002	5.57

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	Χ	-2.437	2.57
2	MP1A	Z	1.407	2.57
3	MP1A	Mx	.001	2.57
4	MP1A	X	-2.437	4.57
5	MP1A	Z	1.407	4.57
6	MP1A	Mx	.001	4.57
7	MP1A	Χ	-5.956	3.56
8	MP1A	Z	3.439	3.56
9	MP1A	Mx	005	3.56
10	MP2A	Χ	-6.408	1.57
11	MP2A	Z	3.7	1.57
12	MP2A	Mx	.007	1.57
13	MP2A	X	-6.408	5.57
14	MP2A	Z	3.7	5.57
15	MP2A	Mx	.007	5.57
16	MP2A	X	-6.408	1.57
17	MP2A	Z	3.7	1.57
18	MP2A	Mx	.001	1.57
19	MP2A	X	-6.408	5.57
20	MP2A	Z	3.7	5.57



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
21	MP2A	Mx	.001	5.57
22	MP3A	Χ	-2.958	1
23	MP3A	Z	1.708	1
24	MP3A	Mx	002	1
25	MP3A	Χ	-2.583	4
26	MP3A	Z	1.491	4
27	MP3A	Mx	002	4
28	MP4A	Χ	-5.275	1.57
29	MP4A	Z	3.046	1.57
30	MP4A	Mx	.002	1.57
31	MP4A	X	-5.275	5.57
32	MP4A	Z	3.046	5.57
33	MP4A	Mx	.002	5.57

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-2.009	2.57
2	MP1A	Z	0	2.57
3	MP1A	Mx	.001	2.57
4	MP1A	X	-2.009	4.57
5	MP1A	Z	0	4.57
6	MP1A	Mx	.001	4.57
7	MP1A	X	-6.099	3.56
8	MP1A	Z	0	3.56
9	MP1A	Mx	006	3.56
10	MP2A	X	-6.559	1.57
11	MP2A	Z	0	1.57
12	MP2A	Mx	.004	1.57
13	MP2A	X	-6.559	5.57
14	MP2A	Z	0	5.57
15	MP2A	Mx	.004	5.57
16	MP2A	X	-6.559	1.57
17	MP2A	Z	0	1.57
18	MP2A	Mx	.004	1.57
19	MP2A	X	-6.559	5.57
20	MP2A	Z	0	5.57
21	MP2A	Mx	.004	5.57
22	MP3A	X	-3.039	1
23	MP3A	Z	0	1
24	MP3A	Mx	003	1
25	MP3A	X	-2.461	4
26	MP3A	Z	0	4
27	MP3A	Mx	002	4
28	MP4A	X	-5.054	1.57
29	MP4A	Z	0	1.57
30	MP4A	Mx	.002	1.57
31	MP4A	X	-5.054	5.57
32	MP4A	Z	0	5.57
33	MP4A	Mx	.002	5.57

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-2.437	2.57
2	MP1A	Z	-1.407	2.57
3	MP1A	Mx	.001	2.57
4	MP1A	Χ	-2.437	4.57



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
5	MP1A	Z	-1.407	4.57
6	MP1A	Mx	.001	4.57
7	MP1A	Χ	-5.956	3.56
8	MP1A	Z	-3.439	3.56
9	MP1A	Mx	005	3.56
10	MP2A	Χ	-6.408	1.57
11	MP2A	Z	-3.7	1.57
12	MP2A	Mx	.001	1.57
13	MP2A	X	-6.408	5.57
14	MP2A	Z	-3.7	5.57
15	MP2A	Mx	.001	5.57
16	MP2A	X	-6.408	1.57
17	MP2A	Z	-3.7	1.57
18	MP2A	Mx	.007	1.57
19	MP2A	X	-6.408	5.57
20	MP2A	Z	-3.7	5.57
21	MP2A	Mx	.007	5.57
22	MP3A	X	-2.958	1
23	MP3A	Z	-1.708	1
24	MP3A	Mx	002	1
25	MP3A	X	-2.583	4
26	MP3A	Z	-1.491	4
27	MP3A	Mx	002	4
28	MP4A	X	-5.275	1.57
29	MP4A	Z	-3.046	1.57
30	MP4A	Mx	.002	1.57
31	MP4A	X	-5.275	5.57
32	MP4A	Z	-3.046	5.57
33	MP4A	Mx	.002	5.57

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-2.211	2.57
2	MP1A	Z	-3.83	2.57
3	MP1A	Mx	.001	2.57
4	MP1A	Χ	-2.211	4.57
5	MP1A	Z	-3.83	4.57
6	MP1A	Mx	.001	4.57
7	MP1A	Χ	-4.217	3.56
8	MP1A	Z	-7.305	3.56
9	MP1A	Mx	004	3.56
10	MP2A	Χ	-4.539	1.57
11	MP2A	Z	-7.862	1.57
12	MP2A	Mx	004	1.57
13	MP2A	Χ	-4.539	5.57
14	MP2A	Z	-7.862	5.57
15	MP2A	Mx	004	5.57
16	MP2A	X	-4.539	1.57
17	MP2A	Z	-7.862	1.57
18	MP2A	Mx	.01	1.57
19	MP2A	X	-4.539	5.57
20	MP2A	Z	-7.862	5.57
21	MP2A	Mx	.01	5.57
22	MP3A	Χ	-2.085	1
23	MP3A	Z	-3.611	1
24	MP3A	Mx	002	1



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
25	MP3A	X	-2.012	4
26	MP3A	Z	-3.486	4
27	MP3A	Mx	002	4
28	MP4A	X	-4.082	1.57
29	MP4A	Z	-7.071	1.57
30	MP4A	Mx	.002	1.57
31	MP4A	X	-4.082	5.57
32	MP4A	Z	-7.071	5.57
33	MP4A	Mx	.002	5.57

Member Point Loads (BLC 77 : Lm1)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M14A	Υ	-500	%63

Member Point Loads (BLC 78 : Lm2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M14A	Υ	-500	%33

Member Point Loads (BLC 79 : Lv1)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M14A	Υ	-250	%50

Member Point Loads (BLC 80 : Lv2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M14A	Υ	-250	%100

Member Distributed Loads (BLC 40 : Structure Di)

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[l.	Start Location[ft	End Location[ft,
1	M1	Υ	-14.805	-14.805	0	%100 ⁻
2	M2	Υ	-10.439	-10.439	0	%100
3	M4	Υ	-10.439	-10.439	0	%100
4	MP4A	Υ	-8.162	-8.162	0	%100
5	MP3A	Υ	-8.162	-8.162	0	%100
6	MP2A	Υ	-8.162	-8.162	0	%100
7	MP1A	Υ	-8.162	-8.162	0	%100
8	M13	Υ	-11.943	-11.943	0	%100
9	M14A	Υ	-10.439	-10.439	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[l.	.Start Location[ft	.End Location[ft,
1	M1	X	0	Ö	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-7.451	-7.451	0	%100
5	M4	X	0	0	0	%100
6	M4	Z	-12.746	-12.746	0	%100
7	MP4A	X	0	0	0	%100
8	MP4A	Z	-7.774	-7.774	0	%100
9	MP3A	X	0	0	0	%100
10	MP3A	Z	-7.774	-7.774	0	%100
11	MP2A	X	0	0	0	%100
12	MP2A	Z	-7.774	-7.774	0	%100
13	MP1A	X	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[l.	.Start Location[ft	.End Location[ft,
14	MP1A	Z	-7.774	-7.774	0	%100
15	M13	X	0	0	0	%100
16	M13	Z	0	0	0	%100
17	M14A	X	0	0	0	%100
18	M14A	Ζ	-12.746	-12.746	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[l.	.Start Location[ft	.End Location[ft,
1	M1	X	1.509	1.509	0	%100
2	M1	Z	-2.614	-2.614	0	%100
3	M2	X	3.834	3.834	0	%100
4	M2	Z	-6.641	-6.641	0	%100
5	M4	X	4.78	4.78	0	%100
6	M4	Z	-8.279	-8.279	0	%100
7	MP4A	X	4.032	4.032	0	%100
8	MP4A	Z	-6.983	-6.983	0	%100
9	MP3A	X	4.032	4.032	0	%100
10	MP3A	Z	-6.983	-6.983	0	%100
11	MP2A	X	4.032	4.032	0	%100
12	MP2A	Z	-6.983	-6.983	0	%100
13	MP1A	X	4.032	4.032	0	%100
14	MP1A	Z	-6.983	-6.983	0	%100
15	M13	X	1.237	1.237	0	%100
16	M13	Z	-2.142	-2.142	0	%100
17	M14A	X	4.78	4.78	0	%100
18	M14A	Z	-8.279	-8.279	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[l.	.Start Location[ft	.End Location[ft,
1	M1	X	7.843	7.843	0	%100 ⁻
2	M1	Z	-4.528	-4.528	0	%100
3	M2	X	7.019	7.019	0	%100
4	M2	Z	-4.053	-4.053	0	%100
5	M4	X	2.76	2.76	0	%100
6	M4	Z	-1.593	-1.593	0	%100
7	MP4A	X	7.485	7.485	0	%100
8	MP4A	Z	-4.321	-4.321	0	%100
9	MP3A	X	7.485	7.485	0	%100
10	MP3A	Z	-4.321	-4.321	0	%100
11	MP2A	X	7.485	7.485	0	%100
12	MP2A	Z	-4.321	-4.321	0	%100
13	MP1A	X	7.485	7.485	0	%100
14	MP1A	Z	-4.321	-4.321	0	%100
15	M13	X	6.427	6.427	0	%100
16	M13	Z	-3.71	-3.71	0	%100
17	M14A	X	2.76	2.76	0	%100
18	M14A	Z	-1.593	-1.593	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[l.	Start Location[ft	.End Location[ft,
1	M1	X	12.076	12.076	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	8.323	8.323	0	%100
4	M2	Z	0	0	0	%100
5	M4	X	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[l.	Start Location[ft	End Location[ft,
6	M4	Z	0	0	0	%100
7	MP4A	X	8.933	8.933	0	%100
8	MP4A	Z	0	0	0	%100
9	MP3A	X	8.933	8.933	0	%100
10	MP3A	Ζ	0	0	0	%100
11	MP2A	X	8.933	8.933	0	%100
12	MP2A	Z	0	0	0	%100
13	MP1A	X	8.933	8.933	0	%100
14	MP1A	Ζ	0	0	0	%100
15	M13	X	9.895	9.895	0	%100
16	M13	Z	0	0	0	%100
17	M14A	X	0	0	0	%100
18	M14A	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[l.	Start Location[ft	.End Location[ft,
1	M1	X	7.843	7.843	0	%100
2	M1	Z	4.528	4.528	0	%100
3	M2	X	7.019	7.019	0	%100
4	M2	Z	4.053	4.053	0	%100
5	M4	X	2.76	2.76	0	%100
6	M4	Z	1.593	1.593	0	%100
7	MP4A	X	7.485	7.485	0	%100
8	MP4A	Z	4.321	4.321	0	%100
9	MP3A	X	7.485	7.485	0	%100
10	MP3A	Ζ	4.321	4.321	0	%100
11	MP2A	X	7.485	7.485	0	%100
12	MP2A	Z	4.321	4.321	0	%100
13	MP1A	X	7.485	7.485	0	%100
14	MP1A	Z	4.321	4.321	0	%100
15	M13	X	6.427	6.427	0	%100
16	M13	Z	3.71	3.71	0	%100
17	M14A	X	2.76	2.76	0	%100
18	M14A	Z	1.593	1.593	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[l.	.Start Location[ft	.End Location[ft,
1	M1	X	1.509	1.509	0	%100
2	M1	Z	2.614	2.614	0	%100
3	M2	X	3.834	3.834	0	%100
4	M2	Z	6.641	6.641	0	%100
5	M4	X	4.78	4.78	0	%100
6	M4	Z	8.279	8.279	0	%100
7	MP4A	X	4.032	4.032	0	%100
8	MP4A	Z	6.983	6.983	0	%100
9	MP3A	X	4.032	4.032	0	%100
10	MP3A	Z	6.983	6.983	0	%100
11	MP2A	X	4.032	4.032	0	%100
12	MP2A	Z	6.983	6.983	0	%100
13	MP1A	X	4.032	4.032	0	%100
14	MP1A	Z	6.983	6.983	0	%100
15	M13	X	1.237	1.237	0	%100
16	M13	Z	2.142	2.142	0	%100
17	M14A	X	4.78	4.78	0	%100
18	M14A	Z	8.279	8.279	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[l.	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	7.451	7.451	0	%100
5	M4	X	0	0	0	%100
6	M4	Z	12.746	12.746	0	%100
7	MP4A	X	0	0	0	%100
8	MP4A	Z	7.774	7.774	0	%100
9	MP3A	X	0	0	0	%100
10	MP3A	Z	7.774	7.774	0	%100
11	MP2A	X	0	0	0	%100
12	MP2A	Z	7.774	7.774	0	%100
13	MP1A	X	0	0	0	%100
14	MP1A	Z	7.774	7.774	0	%100
15	M13	X	0	0	0	%100
16	M13	Z	0	0	0	%100
17	M14A	X	0	0	0	%100
18	M14A	Z	12.746	12.746	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[l.	.Start Location[ft	.End Location[ft,
1	M1	X	-1.509	-1.509	0	%100 ⁻
2	M1	Z	2.614	2.614	0	%100
3	M2	X	-3.834	-3.834	0	%100
4	M2	Z	6.641	6.641	0	%100
5	M4	X	-4.78	-4.78	0	%100
6	M4	Z	8.279	8.279	0	%100
7	MP4A	X	-4.032	-4.032	0	%100
8	MP4A	Z	6.983	6.983	0	%100
9	MP3A	X	-4.032	-4.032	0	%100
10	MP3A	Z	6.983	6.983	0	%100
11	MP2A	X	-4.032	-4.032	0	%100
12	MP2A	Z	6.983	6.983	0	%100
13	MP1A	X	-4.032	-4.032	0	%100
14	MP1A	Z	6.983	6.983	0	%100
15	M13	X	-1.237	-1.237	0	%100
16	M13	Z	2.142	2.142	0	%100
17	M14A	X	-4.78	-4.78	0	%100
18	M14A	Z	8.279	8.279	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[l.	Start Location[ft	End Location[ft,
1	M1	X	-7.843	-7.843	0	%100 ⁻
2	M1	Z	4.528	4.528	0	%100
3	M2	X	-7.019	-7.019	0	%100
4	M2	Z	4.053	4.053	0	%100
5	M4	X	-2.76	-2.76	0	%100
6	M4	Z	1.593	1.593	0	%100
7	MP4A	X	-7.485	-7.485	0	%100
8	MP4A	Z	4.321	4.321	0	%100
9	MP3A	X	-7.485	-7.485	0	%100
10	MP3A	Z	4.321	4.321	0	%100
11	MP2A	X	-7.485	-7.485	0	%100
12	MP2A	Z	4.321	4.321	0	%100
13	MP1A	X	-7.485	-7.485	0	%100
14	MP1A	Z	4.321	4.321	0	%100



: Maser Consulting : AE

: Project No. 10022557

468180-VZW_MT_LOT_SectorA_H

Dec 14, 2020 12:08 PM Checked By: GM

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[l.	.Start Location[ft	.End Location[ft,
15	M13	X	-6.427	-6.427	0	%100 ⁻
16	M13	Z	3.71	3.71	0	%100
17	M14A	Х	-2.76	-2.76	0	%100
18	M14A	Z	1.593	1.593	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[l.	.Start Location[ft	.End Location[ft,
1	M1	X	-12.076	-12.076	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	-8.323	-8.323	0	%100
4	M2	Z	0	0	0	%100
5	M4	X	0	0	0	%100
6	M4	Z	0	0	0	%100
7	MP4A	X	-8.933	-8.933	0	%100
8	MP4A	Z	0	0	0	%100
9	MP3A	X	-8.933	-8.933	0	%100
10	MP3A	Z	0	0	0	%100
11	MP2A	X	-8.933	-8.933	0	%100
12	MP2A	Z	0	0	0	%100
13	MP1A	X	-8.933	-8.933	0	%100
14	MP1A	Z	0	0	0	%100
15	M13	X	-9.895	-9.895	0	%100
16	M13	Z	0	0	0	%100
17	M14A	X	0	0	0	%100
18	M14A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[l.	.Start Location[ft	.End Location[ft,
1	M1	X	-7.843	-7.843	0	%100
2	M1	Z	-4.528	-4.528	0	%100
3	M2	X	-7.019	-7.019	0	%100
4	M2	Z	-4.053	-4.053	0	%100
5	M4	X	-2.76	-2.76	0	%100
6	M4	Z	-1.593	-1.593	0	%100
7	MP4A	X	-7.485	-7.485	0	%100
8	MP4A	Z	-4.321	-4.321	0	%100
9	MP3A	X	-7.485	-7.485	0	%100
10	MP3A	Z	-4.321	-4.321	0	%100
11	MP2A	X	-7.485	-7.485	0	%100
12	MP2A	Z	-4.321	-4.321	0	%100
13	MP1A	X	-7.485	-7.485	0	%100
14	MP1A	Z	-4.321	-4.321	0	%100
15	M13	X	-6.427	-6.427	0	%100
16	M13	Z	-3.71	-3.71	0	%100
17	M14A	X	-2.76	-2.76	0	%100
18	M14A	Z	-1.593	-1.593	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[l	Start Location[ft	.End Location[ft,
1	M1	X	-1.509	-1.509	0	%100 ⁻
2	M1	Z	-2.614	-2.614	0	%100
3	M2	X	-3.834	-3.834	0	%100
4	M2	Z	-6.641	-6.641	0	%100
5	M4	X	-4.78	-4.78	0	%100
6	M4	Z	-8.279	-8.279	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[l.	Start Location[ft	.End Location[ft,
7	MP4A	X	-4.032	-4.032	0	%100 ⁻
8	MP4A	Z	-6.983	-6.983	0	%100
9	MP3A	X	-4.032	-4.032	0	%100
10	MP3A	Ζ	-6.983	-6.983	0	%100
11	MP2A	X	-4.032	-4.032	0	%100
12	MP2A	Z	-6.983	-6.983	0	%100
13	MP1A	X	-4.032	-4.032	0	%100
14	MP1A	Z	-6.983	-6.983	0	%100
15	M13	X	-1.237	-1.237	0	%100
16	M13	Ζ	-2.142	-2.142	0	%100
17	M14A	X	-4.78	-4.78	0	%100
18	M14A	Z	-8.279	-8.279	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[l.	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	-2.765	-2.765	0	%100
5	M4	X	0	0	0	%100
6	M4	Ζ	-4.509	-4.509	0	%100
7	MP4A	X	0	0	0	%100
8	MP4A	Z	-3.634	-3.634	0	%100
9	MP3A	X	0	0	0	%100
10	MP3A	Z	-3.634	-3.634	0	%100
11	MP2A	X	0	0	0	%100
12	MP2A	Z	-3.634	-3.634	0	%100
13	MP1A	X	0	0	0	%100
14	MP1A	Z	-3.634	-3.634	0	%100
15	M13	X	0	0	0	%100
16	M13	Z	0	0	0	%100
17	M14A	X	0	0	0	%100
18	M14A	Z	-4.509	-4.509	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[l.	.Start Location[ft	.End Location[ft,
1	M1	X	.485	.485	0	%100
2	M1	Ζ	841	841	0	%100
3	M2	X	1.402	1.402	0	%100
4	M2	Z	-2.428	-2.428	0	%100
5	M4	X	1.691	1.691	0	%100
6	M4	Z	-2.929	-2.929	0	%100
7	MP4A	X	1.843	1.843	0	%100
8	MP4A	Z	-3.192	-3.192	0	%100
9	MP3A	X	1.843	1.843	0	%100
10	MP3A	Z	-3.192	-3.192	0	%100
11	MP2A	X	1.843	1.843	0	%100
12	MP2A	Z	-3.192	-3.192	0	%100
13	MP1A	X	1.843	1.843	0	%100
14	MP1A	Z	-3.192	-3.192	0	%100
15	M13	X	.442	.442	0	%100
16	M13	Z	765	765	0	%100
17	M14A	X	1.691	1.691	0	%100
18	M14A	Ζ	-2.929	-2.929	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[l.	Start Location[ft	.End Location[ft,
1	M1	X	2.522	2.522	0	%100 ⁻
2	M1	Z	-1.456	-1.456	0	%100
3	M2	X	2.496	2.496	0	%100
4	M2	Z	-1.441	-1.441	0	%100
5	M4	X	.976	.976	0	%100
6	M4	Z	564	564	0	%100
7	MP4A	X	3.282	3.282	0	%100
8	MP4A	Ζ	-1.895	-1.895	0	%100
9	MP3A	X	3.282	3.282	0	%100
10	MP3A	Z	-1.895	-1.895	0	%100
11	MP2A	X	3.282	3.282	0	%100
12	MP2A	Z	-1.895	-1.895	0	%100
13	MP1A	X	3.282	3.282	0	%100
14	MP1A	Z	-1.895	-1.895	0	%100
15	M13	X	2.296	2.296	0	%100
16	M13	Z	-1.326	-1.326	0	%100
17	M14A	X	.976	.976	0	%100
18	M14A	Z	564	564	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[l.	.Start Location[ft	.End Location[ft,
1	M1	X	3.883	3.883	0	%100 ⁻
2	M1	Z	0	0	0	%100
3	M2	X	2.921	2.921	0	%100
4	M2	Z	0	0	0	%100
5	M4	X	0	0	0	%100
6	M4	Z	0	0	0	%100
7	MP4A	X	3.842	3.842	0	%100
8	MP4A	Z	0	0	0	%100
9	MP3A	X	3.842	3.842	0	%100
10	MP3A	Z	0	0	0	%100
11	MP2A	X	3.842	3.842	0	%100
12	MP2A	Z	0	0	0	%100
13	MP1A	X	3.842	3.842	0	%100
14	MP1A	Z	0	0	0	%100
15	M13	X	3.535	3.535	0	%100
16	M13	Z	0	0	0	%100
17	M14A	X	0	0	0	%100
18	M14A	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[l.	Start Location[ft	End Location[ft,
1	M1	X	2.522	2.522	0	%100 ⁻
2	M1	Z	1.456	1.456	0	%100
3	M2	X	2.496	2.496	0	%100
4	M2	Z	1.441	1.441	0	%100
5	M4	X	.976	.976	0	%100
6	M4	Z	.564	.564	0	%100
7	MP4A	X	3.282	3.282	0	%100
8	MP4A	Z	1.895	1.895	0	%100
9	MP3A	X	3.282	3.282	0	%100
10	MP3A	Z	1.895	1.895	0	%100
11	MP2A	X	3.282	3.282	0	%100
12	MP2A	Z	1.895	1.895	0	%100
13	MP1A	X	3.282	3.282	0	%100
14	MP1A	Z	1.895	1.895	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[l.	.Start Location[ft	.End Location[ft,
15	M13	X	2.296	2.296	0	%100
16	M13	Z	1.326	1.326	0	%100
17	M14A	X	.976	.976	0	%100
18	M14A	Ζ	.564	.564	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[l.	.Start Location[ft	.End Location[ft,
1	M1	X	.485	.485	0	%100 ⁻
2	M1	Z	.841	.841	0	%100
3	M2	X	1.402	1.402	0	%100
4	M2	Ζ	2.428	2.428	0	%100
5	M4	X	1.691	1.691	0	%100
6	M4	Z	2.929	2.929	0	%100
7	MP4A	X	1.843	1.843	0	%100
8	MP4A	Z	3.192	3.192	0	%100
9	MP3A	X	1.843	1.843	0	%100
10	MP3A	Z	3.192	3.192	0	%100
11	MP2A	X	1.843	1.843	0	%100
12	MP2A	Z	3.192	3.192	0	%100
13	MP1A	X	1.843	1.843	0	%100
14	MP1A	Z	3.192	3.192	0	%100
15	M13	X	.442	.442	0	%100
16	M13	Z	.765	.765	0	%100
17	M14A	X	1.691	1.691	0	%100
18	M14A	Z	2.929	2.929	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[l.	.Start Location[ft	End Location[ft,
1	M1	X	0	Ö	0	%100 ⁻
2	M1	Ζ	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Ζ	2.765	2.765	0	%100
5	M4	X	0	0	0	%100
6	M4	Ζ	4.509	4.509	0	%100
7	MP4A	X	0	0	0	%100
8	MP4A	Ζ	3.634	3.634	0	%100
9	MP3A	X	0	0	0	%100
10	MP3A	Ζ	3.634	3.634	0	%100
11	MP2A	X	0	0	0	%100
12	MP2A	Ζ	3.634	3.634	0	%100
13	MP1A	X	0	0	0	%100
14	MP1A	Ζ	3.634	3.634	0	%100
15	M13	X	0	0	0	%100
16	M13	Ζ	0	0	0	%100
17	M14A	X	0	0	0	%100
18	M14A	Z	4.509	4.509	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[l.	Start Location[ft	.End Location[ft,
1	M1	X	485	485	0	%100 ⁻
2	M1	Ζ	.841	.841	0	%100
3	M2	X	-1.402	-1.402	0	%100
4	M2	Ζ	2.428	2.428	0	%100
5	M4	X	-1.691	-1.691	0	%100
6	M4	Z	2.929	2.929	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[l.	Start Location[ft	End Location[ft,
7	MP4A	X	-1.843	-1.843	0	%100 ⁻
8	MP4A	Z	3.192	3.192	0	%100
9	MP3A	X	-1.843	-1.843	0	%100
10	MP3A	Ζ	3.192	3.192	0	%100
11	MP2A	X	-1.843	-1.843	0	%100
12	MP2A	Z	3.192	3.192	0	%100
13	MP1A	X	-1.843	-1.843	0	%100
14	MP1A	Z	3.192	3.192	0	%100
15	M13	X	442	442	0	%100
16	M13	Ζ	.765	.765	0	%100
17	M14A	X	-1.691	-1.691	0	%100
18	M14A	Z	2.929	2.929	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[l.	Start Location[ft	.End Location[ft,
1	M1	X	-2.522	-2.522	0	%100
2	M1	Z	1.456	1.456	0	%100
3	M2	X	-2.496	-2.496	0	%100
4	M2	Z	1.441	1.441	0	%100
5	M4	X	976	976	0	%100
6	M4	Z	.564	.564	0	%100
7	MP4A	X	-3.282	-3.282	0	%100
8	MP4A	Z	1.895	1.895	0	%100
9	MP3A	X	-3.282	-3.282	0	%100
10	MP3A	Z	1.895	1.895	0	%100
11	MP2A	X	-3.282	-3.282	0	%100
12	MP2A	Z	1.895	1.895	0	%100
13	MP1A	X	-3.282	-3.282	0	%100
14	MP1A	Z	1.895	1.895	0	%100
15	M13	X	-2.296	-2.296	0	%100
16	M13	Z	1.326	1.326	0	%100
17	M14A	X	976	976	0	%100
18	M14A	Z	.564	.564	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[l.	.Start Location[ft	End Location[ft,
1	M1	X	-3.883	-3.883	0	%100 ⁻
2	M1	Z	0	0	0	%100
3	M2	X	-2.921	-2.921	0	%100
4	M2	Z	0	0	0	%100
5	M4	X	0	0	0	%100
6	M4	Z	0	0	0	%100
7	MP4A	X	-3.842	-3.842	0	%100
8	MP4A	Z	0	0	0	%100
9	MP3A	X	-3.842	-3.842	0	%100
10	MP3A	Z	0	0	0	%100
11	MP2A	X	-3.842	-3.842	0	%100
12	MP2A	Z	0	0	0	%100
13	MP1A	X	-3.842	-3.842	0	%100
14	MP1A	Z	0	0	0	%100
15	M13	X	-3.535	-3.535	0	%100
16	M13	Z	0	0	0	%100
17	M14A	X	0	0	0	%100
18	M14A	Z	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[l.	Start Location[ft	.End Location[ft,
1	M1	X	-2.522	-2.522	0	%100 ⁻
2	M1	Z	-1.456	-1.456	0	%100
3	M2	X	-2.496	-2.496	0	%100
4	M2	Z	-1.441	-1.441	0	%100
5	M4	X	976	976	0	%100
6	M4	Z	564	564	0	%100
7	MP4A	X	-3.282	-3.282	0	%100
8	MP4A	Z	-1.895	-1.895	0	%100
9	MP3A	X	-3.282	-3.282	0	%100
10	MP3A	Z	-1.895	-1.895	0	%100
11	MP2A	X	-3.282	-3.282	0	%100
12	MP2A	Z	-1.895	-1.895	0	%100
13	MP1A	X	-3.282	-3.282	0	%100
14	MP1A	Z	-1.895	-1.895	0	%100
15	M13	X	-2.296	-2.296	0	%100
16	M13	Z	-1.326	-1.326	0	%100
17	M14A	X	976	976	0	%100
18	M14A	Z	564	564	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[l.	.Start Location[ft	.End Location[ft,
1	M1	X	485	485	0	%100 ⁻
2	M1	Z	841	841	0	%100
3	M2	X	-1.402	-1.402	0	%100
4	M2	Z	-2.428	-2.428	0	%100
5	M4	X	-1.691	-1.691	0	%100
6	M4	Z	-2.929	-2.929	0	%100
7	MP4A	X	-1.843	-1.843	0	%100
8	MP4A	Z	-3.192	-3.192	0	%100
9	MP3A	X	-1.843	-1.843	0	%100
10	MP3A	Ζ	-3.192	-3.192	0	%100
11	MP2A	X	-1.843	-1.843	0	%100
12	MP2A	Z	-3.192	-3.192	0	%100
13	MP1A	X	-1.843	-1.843	0	%100
14	MP1A	Z	-3.192	-3.192	0	%100
15	M13	X	442	442	0	%100
16	M13	Z	765	765	0	%100
17	M14A	X	-1.691	-1.691	0	%100
18	M14A	Z	-2.929	-2.929	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[l	Start Location[ft	.End Location[ft,
1	M1	X	0	Ö	0	%100 ⁻
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	482	482	0	%100
5	M4	X	0	0	0	%100
6	M4	Z	824	824	0	%100
7	MP4A	X	0	0	0	%100
8	MP4A	Z	502	502	0	%100
9	MP3A	X	0	0	0	%100
10	MP3A	Z	502	502	0	%100
11	MP2A	X	0	0	0	%100
12	MP2A	Z	502	502	0	%100
13	MP1A	X	0	0	0	%100
14	MP1A	Z	502	502	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[l.	.Start Location[ft	.End Location[ft,
15	M13	X	0	Ö	0	%100
16	M13	Z	0	0	0	%100
17	M14A	Х	0	0	0	%100
18	M14A	Z	824	824	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[l	Start Location[ft	.End Location[ft,
1	M1	X	.098	.098	0	%100
2	M1	Z	169	169	0	%100
3	M2	X	.248	.248	0	%100
4	M2	Z	429	429	0	%100
5	M4	X	.309	.309	0	%100
6	M4	Z	535	535	0	%100
7	MP4A	X	.261	.261	0	%100
8	MP4A	Z	451	451	0	%100
9	MP3A	X	.261	.261	0	%100
10	MP3A	Z	451	451	0	%100
11	MP2A	X	.261	.261	0	%100
12	MP2A	Z	451	451	0	%100
13	MP1A	X	.261	.261	0	%100
14	MP1A	Z	451	451	0	%100
15	M13	X	.08	.08	0	%100
16	M13	Z	138	138	0	%100
17	M14A	X	.309	.309	0	%100
18	M14A	Z	535	535	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[l.	Start Location[ft	End Location[ft,
1	M1	X	.507	.507	0	%100
2	M1	Z	293	293	0	%100
3	M2	X	.454	.454	0	%100
4	M2	Z	262	262	0	%100
5	M4	X	.178	.178	0	%100
6	M4	Z	103	103	0	%100
7	MP4A	X	.484	.484	0	%100
8	MP4A	Z	279	279	0	%100
9	MP3A	X	.484	.484	0	%100
10	MP3A	Z	279	279	0	%100
11	MP2A	X	.484	.484	0	%100
12	MP2A	Z	279	279	0	%100
13	MP1A	X	.484	.484	0	%100
14	MP1A	Z	279	279	0	%100
15	M13	X	.415	.415	0	%100
16	M13	Z	24	24	0	%100
17	M14A	X	.178	.178	0	%100
18	M14A	Z	103	103	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[l.	Start Location[ft	.End Location[ft,
1	M1	X	.781	.781	0	%100 ⁻
2	M1	Z	0	0	0	%100
3	M2	X	.538	.538	0	%100
4	M2	Z	0	0	0	%100
5	M4	X	0	0	0	%100
6	M4	Z	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[l.	Start Location[ft	End Location[ft,
7	MP4A	X	.577	.577	0	%100 ⁻
8	MP4A	Z	0	0	0	%100
9	MP3A	X	.577	.577	0	%100
10	MP3A	Z	0	0	0	%100
11	MP2A	X	.577	.577	0	%100
12	MP2A	Z	0	0	0	%100
13	MP1A	X	.577	.577	0	%100
14	MP1A	Z	0	0	0	%100
15	M13	X	.64	.64	0	%100
16	M13	Ζ	0	0	0	%100
17	M14A	X	0	0	0	%100
18	M14A	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[l.	.Start Location[ft	End Location[ft,
1	M1	X	.507	.507	0	%100
2	M1	Z	.293	.293	0	%100
3	M2	X	.454	.454	0	%100
4	M2	Z	.262	.262	0	%100
5	M4	X	.178	.178	0	%100
6	M4	Z	.103	.103	0	%100
7	MP4A	X	.484	.484	0	%100
8	MP4A	Z	.279	.279	0	%100
9	MP3A	X	.484	.484	0	%100
10	MP3A	Z	.279	.279	0	%100
11	MP2A	X	.484	.484	0	%100
12	MP2A	Z	.279	.279	0	%100
13	MP1A	X	.484	.484	0	%100
14	MP1A	Z	.279	.279	0	%100
15	M13	X	.415	.415	0	%100
16	M13	Z	.24	.24	0	%100
17	M14A	X	.178	.178	0	%100
18	M14A	Z	.103	.103	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[l.	.Start Location[ft	.End Location[ft,
1	M1	X	.098	.098	0	%100 ⁻
2	M1	Z	.169	.169	0	%100
3	M2	X	.248	.248	0	%100
4	M2	Ζ	.429	.429	0	%100
5	M4	X	.309	.309	0	%100
6	M4	Z	.535	.535	0	%100
7	MP4A	X	.261	.261	0	%100
8	MP4A	Z	.451	.451	0	%100
9	MP3A	X	.261	.261	0	%100
10	MP3A	Z	.451	.451	0	%100
11	MP2A	X	.261	.261	0	%100
12	MP2A	Z	.451	.451	0	%100
13	MP1A	X	.261	.261	0	%100
14	MP1A	Ζ	.451	.451	0	%100
15	M13	X	.08	.08	0	%100
16	M13	Z	.138	.138	0	%100
17	M14A	X	.309	.309	0	%100
18	M14A	Z	.535	.535	0	%100



: Maser Consulting : AE

: Project No. 10022557

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[l.	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	.482	.482	0	%100
5	M4	X	0	0	0	%100
6	M4	Z	.824	.824	0	%100
7	MP4A	X	0	0	0	%100
8	MP4A	Z	.502	.502	0	%100
9	MP3A	X	0	0	0	%100
10	MP3A	Ζ	.502	.502	0	%100
11	MP2A	X	0	0	0	%100
12	MP2A	Z	.502	.502	0	%100
13	MP1A	X	0	0	0	%100
14	MP1A	Z	.502	.502	0	%100
15	M13	X	0	0	0	%100
16	M13	Z	0	0	0	%100
17	M14A	X	0	0	0	%100
18	M14A	Z	.824	.824	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[l.	Start Location[ft	End Location[ft,
1	M1	X	098	098	0	%100 ⁻
2	M1	Z	.169	.169	0	%100
3	M2	X	248	248	0	%100
4	M2	Z	.429	.429	0	%100
5	M4	X	309	309	0	%100
6	M4	Z	.535	.535	0	%100
7	MP4A	X	261	261	0	%100
8	MP4A	Z	.451	.451	0	%100
9	MP3A	X	261	261	0	%100
10	MP3A	Z	.451	.451	0	%100
11	MP2A	X	261	261	0	%100
12	MP2A	Z	.451	.451	0	%100
13	MP1A	X	261	261	0	%100
14	MP1A	Z	.451	.451	0	%100
15	M13	X	08	08	0	%100
16	M13	Z	.138	.138	0	%100
17	M14A	X	309	309	0	%100
18	M14A	Z	.535	.535	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[l.	.Start Location[ft	.End Location[ft,
1	M1	X	507	507	0	%100
2	M1	Z	.293	.293	0	%100
3	M2	X	454	454	0	%100
4	M2	Z	.262	.262	0	%100
5	M4	X	178	178	0	%100
6	M4	Z	.103	.103	0	%100
7	MP4A	X	484	484	0	%100
8	MP4A	Z	.279	.279	0	%100
9	MP3A	X	484	484	0	%100
10	MP3A	Z	.279	.279	0	%100
11	MP2A	X	484	484	0	%100
12	MP2A	Z	.279	.279	0	%100
13	MP1A	X	484	484	0	%100
14	MP1A	Z	.279	.279	0	%100



Company Designer Job Number Model Name : Maser Consulting : AE

: Project No. 10022557 : 468180-VZW_MT_LOT_SectorA_H Dec 14, 2020 12:08 PM Checked By: GM

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[l.	Start Location[ft	.End Location[ft,
15	M13	X	415	415	0	%100 ⁻
16	M13	Z	.24	.24	0	%100
17	M14A	X	178	178	0	%100
18	M14A	Z	.103	.103	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[l.	.Start Location[ft	End Location[ft,
1	M1	X	781	781	0	%100 ⁻
2	M1	Z	0	0	0	%100
3	M2	X	538	538	0	%100
4	M2	Z	0	0	0	%100
5	M4	X	0	0	0	%100
6	M4	Z	0	0	0	%100
7	MP4A	X	577	577	0	%100
8	MP4A	Z	0	0	0	%100
9	MP3A	X	577	577	0	%100
10	MP3A	Z	0	0	0	%100
11	MP2A	X	577	577	0	%100
12	MP2A	Z	0	0	0	%100
13	MP1A	X	577	577	0	%100
14	MP1A	Z	0	0	0	%100
15	M13	X	64	64	0	%100
16	M13	Z	0	0	0	%100
17	M14A	X	0	0	0	%100
18	M14A	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[l.	Start Location[ft	.End Location[ft,
1	M1	X	507	507	0	%100
2	M1	Z	293	293	0	%100
3	M2	X	454	454	0	%100
4	M2	Z	262	262	0	%100
5	M4	X	178	178	0	%100
6	M4	Z	103	103	0	%100
7	MP4A	X	484	484	0	%100
8	MP4A	Z	279	279	0	%100
9	MP3A	X	484	484	0	%100
10	MP3A	Z	279	279	0	%100
11	MP2A	X	484	484	0	%100
12	MP2A	Z	279	279	0	%100
13	MP1A	X	484	484	0	%100
14	MP1A	Z	279	279	0	%100
15	M13	X	415	415	0	%100
16	M13	Z	24	24	0	%100
17	M14A	X	178	178	0	%100
18	M14A	Z	103	103	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[l	Start Location[ft	.End Location[ft,
1	M1	X	098	098	0	%100 ⁻
2	M1	Z	169	169	0	%100
3	M2	X	248	248	0	%100
4	M2	Z	429	429	0	%100
5	M4	X	309	309	0	%100
6	M4	Z	535	535	0	%100



Company Designer Job Number Model Name : Maser Consulting : AE

: Project No. 10022557 : 468180-VZW_MT_LOT_SectorA_H Dec 14, 2020 12:08 PM Checked By: GM

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[l.	Start Location[ft	.End Location[ft,
7	MP4A	X	261	261	0	%100 ⁻
8	MP4A	Z	451	451	0	%100
9	MP3A	X	261	261	0	%100
10	MP3A	Ζ	451	451	0	%100
11	MP2A	X	261	261	0	%100
12	MP2A	Z	451	451	0	%100
13	MP1A	X	261	261	0	%100
14	MP1A	Z	451	451	0	%100
15	M13	X	08	08	0	%100
16	M13	Ζ	138	138	0	%100
17	M14A	X	309	309	0	%100
18	M14A	Z	535	535	0	%100

Member Area Loads

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

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

	Member Shape	Code Check	Loc[ft]	LC	Sh	Loc[ft].	LC	phi* phi* phi* phi* Eqn
1	M1 HSS4X	310	0	16	.066	0 \	/ 50	1328. 1395. 16.1 16.1 H1
2	M2 PIPE	.000	.75	10	.000	.75	4	644265205 5.749 5.749 H1
3	M4 PIPE	.229	3.396	7	.168	3.396	23	509365205 5.749 5.749H1
4	MP4A PIPE	.144	3.047	8	.053	5.946	5	174432130 1.872 1.872H1
5	MP3A PIPE	.265	3.047	20	.058	3.047	18	174432130 1.872 1.872H1
6	MP2A PIPE	.335	3.047	18	.135	5.946	9	174432130 1.872 1.872H1
7	MP1A PIPE	.196	3.047	17	.086	3.047	8	174432130 1.872 1.872H1
8	M13 HSS3X	285	0	21	.051	0 \	/ 50	907010108.556 8.556H1
9	M14A PIPE	.185	3.396	2	.130	3.396	14	509365205 5.749 5.749H1

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	N1	max	946.206	9	1381.818	13	1033.254	1	-1.164	1	3.18	9	.646	50
2		min	-1005.324	3	450.555	7	-1554.417	7	-3.875	19	-3.391	3	324	38
3	N32	max	220.011	11	763.226	19	928.252	13	46	1	1.506	9	.26	50
4		min	-162.025	5	220.956	1	-195.26	7	-1.818	19	-1.307	3	135	38
5	Totals:	max	1149.32	10	2119.895	13	1749.674	1						
6		min	-1149.321	4	768.082	7	-1749,677	7						



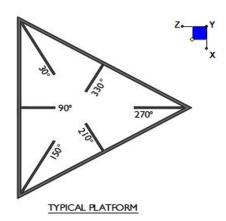
Client:	Verizon Wireless	Date:	12/14/2020
Site Name:	Hartford 9 CT		
Project No.	20777293A		
Title:	Antenna Mount Analysis	Page:	1

Version 3.1

I. Mount-to-Tower Connection Check

RISA Model Data

Nodes (labeled per RISA)	Orientation (per graphic of typical platform)
N32	90



Tower Connection Bolt Checks

Any moment resistance?:

Bolt Quantity per Reaction:

 d_x (in) (Delta X of typ. bolt config. sketch):

d_v (in) (Delta Y of typ. bolt config. sketch):

Bolt Type:

Bolt Diameter (in):

Required Tensile Strength (kips):

Required Shear Strength (kips):

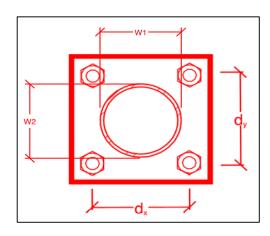
Tensile Strength / bolt (kips):

Shear Strength / bolt (kips):

Tensile Capacity Overall:

Shear Capacity Overall:

yes	
4	
6	
6	
A325N	
0.625	
8.3	
1.5	
20.7	
12.4	
10.1%*	
3.0%	



*Note: Tension reduction not required if tension or shear capacity < 30%

<u>Tower Connection Plate and Weld Check</u>

Connecting Standoff Member Shape:

Plate Width (in):

Plate Height (in):

W1 (in):

W2 (in):

Fy (ksi, plate):

 t_{Plate} (in):

Weld Size (1/16 in):

Phi*Rn (kip/in):

Required Weld Strength (kip/in):

Plate Bending Capacity:

Weld Capacity:

Rect
8.25
8.25
3
3
50
0.625
5
6.96
1.96

21.5%

28.2%

Max Plate Bending Strengths

Mu _{xx} (kip-in):	5.8
Phi*Mn _{xx} (kip-in):	36.3
Mu _{yy} (kip-in):	2.0
Phi*Mn _{yy} (kip-in):	36.3



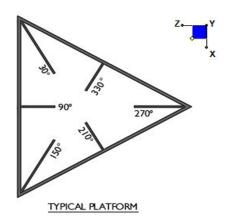
Client:	Verizon Wireless	Date:	12/14/2020
Site Name:	Hartford 9 CT		
Project No.	20777293A		
Title:	Antenna Mount Analysis	Page:	1

Version 3.1

I. Mount-to-Tower Connection Check

RISA Model Data

Nodes (labeled per RISA)	Orientation (per graphic of typical platform)
N1	90



Tower Connection Bolt Checks

Any moment resistance?:

Bolt Quantity per Reaction:

 d_x (in) (Delta X of typ. bolt config. sketch):

d_v (in) (Delta Y of typ. bolt config. sketch):

Bolt Type:

Bolt Diameter (in):

Required Tensile Strength (kips):

Required Shear Strength (kips):

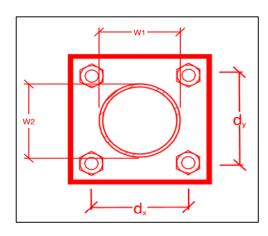
Tensile Strength / bolt (kips):

Shear Strength / bolt (kips):

Tensile Capacity Overall:

Shear Capacity Overall:

yes
4
7
7
A325N
0.625
14.6
3.0
20.7
12.4
17.7%*
6.0%



*Note: Tension reduction not required if tension or shear capacity < 30%

<u>Tower Connection Plate and Weld Check</u>

Connecting Standoff Member Shape:

Plate Width (in):

Plate Height (in):

W1 (in):

W2 (in):

Fy (ksi, plate):

 t_{Plate} (in):

Weld Size (1/16 in):

Phi*Rn (kip/in):

Required Weld Strength (kip/in):

Plate Bending Capacity:

Weld Capacity:

Rect
10
10
4
4
36
0.625
3
4.18

2.31

42.3%

55.4%

Max Plate Bending Strengths

K Trace Benaning Strength	15
Mu _{xx} (kip-in):	10.4
Phi*Mn _{xx} (kip-in):	31.6
Mu _{yy} (kip-in):	2.9
Phi*Mn _{vv} (kip-in):	31.6



Mount Desktop – Post Modification Inspection (PMI) Report Requirements

Documents & Photos Required from Contractor – Mount Modification

<u>Purpose</u> – to provide TES 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 modification was completed in accordance with the modification drawings.
- Contractor shall relay any data that can impact the performance of the mount or the mount modification, this includes safety issues.

Base Requirements:

- Any special photos outside of the standard requirements will be indicated on the drawings
- Provide "as built drawings" showing contractor's name, preparer's signature, and date. Any deviations from the drawings (proposed modification) must be shown.
- Notation that all hardware was properly installed, and the existing hardware was inspected for any issues.
- Verification that loading is as communicated in the modification drawings. NOTE If loading is different than what is conveyed in the modification drawing contact TES immediately.
- Each photo should be time and date stamped
- Photos should be high resolution and submitted in a Zip File and should be organized in the file structure as depicted in Schedule A attached.
- 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.
- The photos in the file structure should be uploaded to https://pmi.vzwsmart.com as depicted on the drawings

Photo Requirements:

- Base and "During Installation Photos"
 - Base pictures include
 - Photo of Gate Signs showing the tower owner, site name, and number
 - Photo of carrier shelter showing the carrier site name and number if available
 - Photos of the galvanizing compound and/or paint used (if applicable), clearly showing the label and name
 - o "During Installation Photos if provided must be placed only in this folder
- Photos taken at ground level
 - o Overall tower structure before and after installation of the modifications
 - Photos of the appropriate mount before and after installation of the modifications; if the mounts are at different rad elevations, pictures must be provided for all elevations that the modifications were installed

Photos taken at Mount Elevation

- o Photos showing each individual sector before and also after installation of modifications. Each entire sector must be in one photo to show in the inter-connection of members.
 - These photos should also certify that the placement and geometry of the equipment on the mount is as depicted on the sketch and table in the mount analysis
- Close-up photos of each installed modification per the modification drawings; pictures should also include connection hardware (U-bolts, bolts, nuts, all-threaded rods, etc.)
- Photos showing the measurements of the installed modification member sizes (i.e. lengths, widths, depths, diameters, thicknesses)
- o Photos showing the elevation or distances of the installed modifications from the appropriate reference locations shown in the modification drawings
- Photos showing the installed modifications onto the tower with tape drop measurements (if applicable) (i.e. ring/collar mounts, tie-backs, V-bracing kits, etc.); if the existing mount elevation needs to be changed according to the modification drawings, a tape drop measurement shall be provided before the elevation change
- Photos showing the safety climb wire rope above and below the mount prior to modification.
- Photos showing the climbing facility and safety climb if present.

Material Certification:

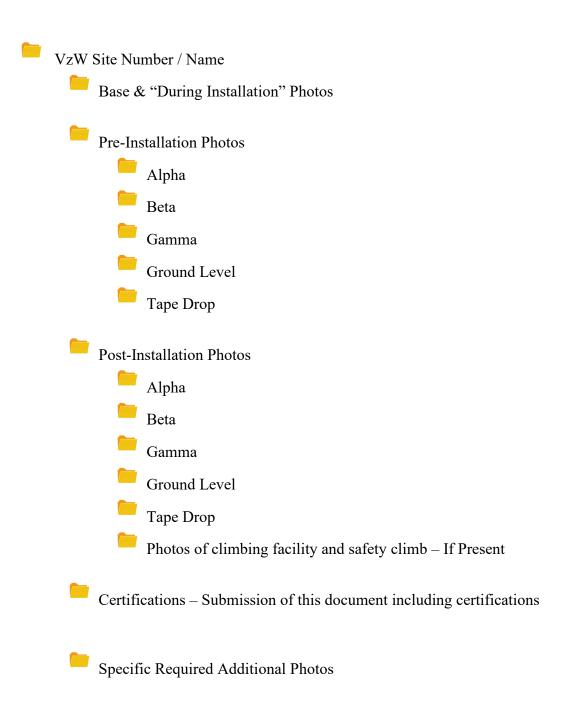
- Materials utilized must be as per specification on the drawings or the equivalent as validated by TES.
 - If the drawings are as specified on the drawings
 - The contractor should provide the packing list or the materials utilized to perform the mount modification
 - If an equivalent is utilized
 - It is required that the TES certification of such is included in the contractor submission package. There may be an additional charge for this certification if the equivalent submission doesn't meet specifications as prescribed in the drawings.

The contractor must	ertify that the materials meet these specifications by one of these methods.
	d was as specified on the TES Mount Modification Drawings and included in the folder is a packing list or invoice for these materials
	d was an "equivalent" and included as part of the contractor submission is the ices, or specifications validating accepted status
Certifying Individual:	Company
	Name
	Signature

Antenna & equipment p	lacement and Geometr	y Confirmation:
-----------------------	----------------------	-----------------

•	The contractor must certify that the antenna & equipment placement and geometry is in accordance with the antenna placement diagrams as included in this mount analysis.										
_			os support and the equipment on the mount is as depicted on the ded in this mount analysis.								
0	The contractor notes that the equipment on the mount is not in accordance with the antenna placement diagrams and has accordingly marked up the diagrams or provided a diagram outlining the differences.										
Certify	ring Individual:	Company									
		Name									
		Signature									
Specia Issue:			ed from the MA or Mod Drawings:								
Respo	nse:										
Repla	ice all rusted U-Bolts o	n the mount.									

Schedule A – Photo & Document File Structure



Α Sector:

Structure Type: Monopole

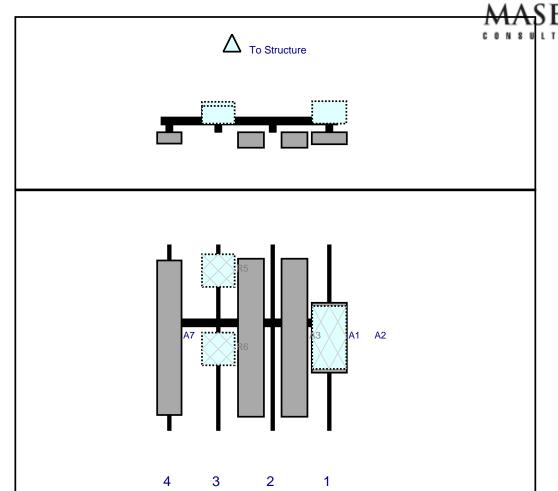
Mount Elev: 89.25 12/14/2020

Page: 1



Plan View

Front View Looking at Structure



		Height	Width	H Dist	Pipe	Pipe	Ant	C. Ant	Ant		
Ref#	Model	(in)	(in)	Frm L.	#	Pos V	Pos	Frm T.	H Off	Status	Validation
A1	Licensed Sub 6 Antenna	32.1	16.1	77.5	1	а	Front	42.84	0	Added	
A2	DB-T1-6Z-12AB-0Z	28.9	15.7	77.5	1	а	Behind	42.72	0	Added	
A3	SBNHH-1D65B	72.6	11.9	51.5	2	а	Front	42.84	10	Retained	10/26/2020
A3	SBNHH-1D65B	72.6	11.9	51.5	2	b	Front	42.84	-10	Retained	10/26/2020
R5	B2/B66A RRH-BR049	15	15	26.5	3	а	Behind	12	0	Retained	10/26/2020
R6	B5/B13 RRH-BR04C	15	15	26.5	3	а	Behind	48	0	Retained	10/26/2020
A7	BXA-70063-6CF-EDIN-2	71	11.2	4	4	а	Front	42.84	0	Retained	10/26/2020

В Sector:

Structure Type: Monopole

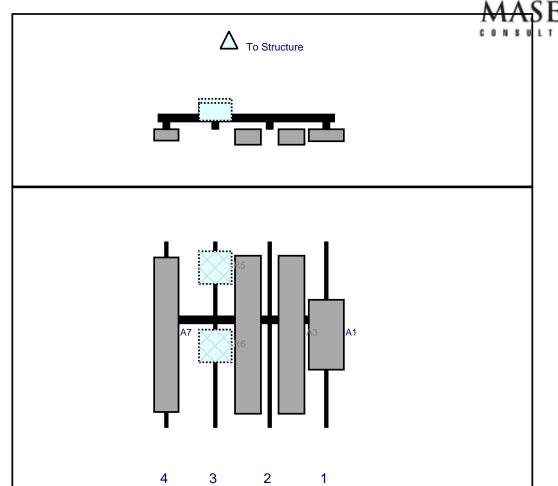
Mount Elev: 89.25 12/14/2020

Page: 2



Plan View

Front View Looking at Structure



		Height	Width	H Dist	Pipe	Pipe	Ant	C. Ant	Ant		
Ref#	Model	(in)	(in)	Frm L.	#	Pos V	Pos	Frm T.	H Off	Status	Validation
A1	Licensed Sub 6 Antenna	32.1	16.1	77.5	1	a	Front	42.84	0	Added	
A3	SBNHH-1D65B	72.6	11.9	51.5	2	а	Front	42.84	10	Retained	10/26/2020
A3	SBNHH-1D65B	72.6	11.9	51.5	2	b	Front	42.84	-10	Retained	10/26/2020
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R6	B5/B13 RRH-BR04C	15	15	26.5	3	a	Behind	48	0	Retained	10/26/2020
A7	BXA-70063-6CF-EDIN-2	71	11.2	4	4	а	Front	42.84	0	Retained	10/26/2020

С Sector:

Structure Type: Monopole

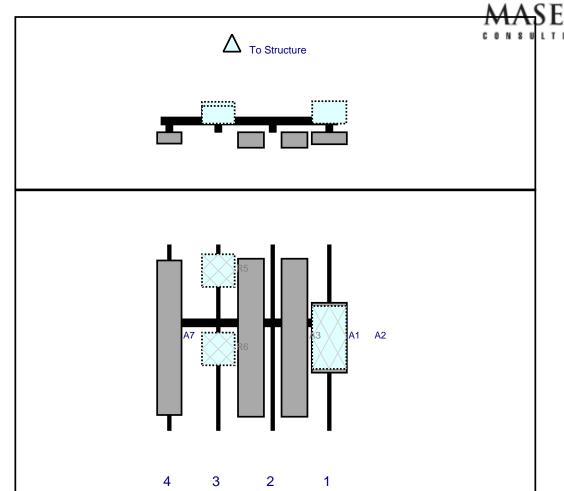
Mount Elev: 89.25 12/14/2020

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Plan View

Front View Looking at Structure



		Height	Width	H Dist	Pipe	Pipe	Ant	C. Ant	Ant		
Ref#	Model	(in)	(in)	Frm L.	#	Pos V	Pos	Frm T.	H Off	Status	Validation
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A3	SBNHH-1D65B	72.6	11.9	51.5	2	а	Front	42.84	10	Retained	10/26/2020
A3	SBNHH-1D65B	72.6	11.9	51.5	2	b	Front	42.84	-10	Retained	10/26/2020
R5	B2/B66A RRH-BR049	15	15	26.5	3	а	Behind	12	0	Retained	10/26/2020
R6	B5/B13 RRH-BR04C	15	15	26.5	3	а	Behind	48	0	Retained	10/26/2020
A7	BXA-70063-6CF-EDIN-2	71	11.2	4	4	а	Front	42.84	0	Retained	10/26/2020

Maser Consulting Connecticut



Subject TIA-222-H Usage

<u>Site Information</u> Site ID: 468180-VZW / Hartford 9 CT

Site Name: Hartford 9 CT
Carrier Name: Verizon Wireless
Address: 250 Silas Deane Hwy

Wethersfield, Connecticut 0610

Hartford County

Latitude: 41.720597° Longitude: -72.666044°

<u>Structure Information</u> Tower Type: Monopole

Mount Type: 6.79-Ft T-Frame

To Whom It May Concern,

We respectfully submit the above referenced Antenna Mount Structural Analysis report in conformance with ANSI/TIA-222-H, Structural Standard for Antenna Supporting Structures and Antennas and Small Wind Turbine Support Structures.

The 2015 International Building Code states that, in Section 3108, telecommunication towers shall be designed and constructed in accordance with the provisions of TIA-222. The TIA-222-H is the latest revision of the TIA-222 Standard, effective as of January 01, 2018.

As with all ANSI standards and engineering best practice is to apply the most current revision of the standard. This ensures the engineer is applying all updates. As an example, the TIA-222-H standard includes updates to bring it in line with the latest AISC and ACI standards and it also incorporates the latest wind speed map by ASCE 7 based on updated studies of the wind data.

The TIA-222-H standard clarifies these specific requirements for the antenna mount analysis such as modeling method, seismic analysis, 30-degree increment wind direction and maintenance loading. Therefore, it is our opinion that TIA-222-H is the most appropriate standard for antenna mount structural analysis and is acceptable for use at this tower site to ensure the engineer is taking into account the most current engineering standard available.

Sincerely,

Petros E. Tsoukalas, PE

Geographic Discipline Leader

PROIECT NOTES

- SEE MODIFICATION NOTES
- THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES, ORDINANCES, LAWS AND REGULATIONS OF ALL MUNICIPALITIES, UTILITY COMPANIES OR OTHER PUBLIC/GOVERNING AUTHORITIES
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS THAT MAY BE REQUIRED BY ANY FEDERAL, STATE, COUNTY OR MUNICIPAL AUTHORITIES.
- THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER. IN WRITING, OF ANY CONFLICTS, ERRORS OR OMISSIONS PRIOR TO THE SUBMISSION OF BIDS OR PERFORMANCE
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING SITE IMPROVEMENTS PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL REPAIR ANY DAMAGE AS A RESULT OF CONSTRUCTION OF THIS FACILITY AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER
- THE SCOPE OF WORK FOR THIS PROJECT SHALL INCLUDE PROVIDING ALL MATERIALS. EQUIPMENT AND LABOR REQUIRED TO COMPLETE THIS PROJECT. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- THE CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO SUBMITTING THE BID TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND CONSTRUCTION DRAWINGS
- THE CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THESE DRAWINGS MUST BE VERIFIED. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
- SINCE THE CELL SITE MAY BE ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUTDOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL RF EXPOSURE MONITORS ARE REQUIRED TO BE WORN TO ALERT OF ANY POTENTIALLY DANGEROUS EXPOSURE LEVELS.
- 10. NO NOISE, SMOKE, DUST OR ODOR WILL RESULT FROM THIS FACILITY AS TO CAUSE A NUISANCE.
- THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION (NO HANDICAP ACCESS IS REQUIRED).

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MOUNT MODIFICATION DRAWINGS **EXISTING 6.79' T-FRAME MOUNT**

SITE NAME: HARTFORD 9 CT **SITE NUMBER: 468180**

250 SILAS DEANE HWY WETHERSFIELD, CT 06109 HARTFORD COUNTY

PROIECT INFORMATION SITE INFORMATION LATITUDE: 41.720597° N LONGITUDE: 72.666044° W JURISDICTION HARTFORD COUNTY APPLICANT/LESSEE COMPANY VERIZON WIRELESS CLIENT REPRESENTATIVE

COMPANY VERIZON WIRELESS ADDRESS 118 FLANDERS ROAD, 3RD FLOOR CITY, STATE, ZIP WESTBOROUGH, MA 01518 CONTACT ANDREW CANDIELLO ANDREW.CANDIELLO@VERIZONWIRELESS.COM E-MAIL

PROJECT MANAGER

COMPANY MASER CONSULTING CONTACT GREG DULNIK (615) 686-2575 PHONE

GDULNIK@MASERCONSULTING.COM E-MAIL

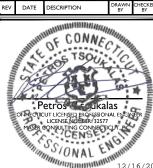
Ш		SHEET INDEX					
11	SHEET	DESCRIPTION					
	T-I	TITLE SHEET					
	S-I	BILL OF MATERIALS					
S-2 MODIFICATION NOTES							
	S-3 MODIFICATION NOTES						
	S-4	MODIFICATION DETAILS					
	S-5	MODIFICATION DETAILS					
	S-6	MOUNT PHOTOS					
		SPECIFICATION SHEETS					
П							

CONTRACTOR PMI REQUIREMENTS PMI LOCATION HTTPS://PMI.VZWSMART.COM SMART TOOL PROJECT # 10022557 VZW LOCATION CODE (PSLC) 468180 16232035

PMI REQUIREMENTS EMBEDDED WITHIN MOUNT MODIFICATION REPORT

REFERENCED D	OCUMENTS
FAILING MOUNT AN	ALYSIS REPORT
MART TOOL PROJECT #	10017995
1ASER CONSULTING PROJECT #	20777293A
ANALYSIS DATE	11/10/2020





SITE NAME:

HARTFORD 9 CT 468180

250 SILAS DEANE HWY WETHERSFIELD, CT 06109 HARTFORD COUNTY



Phone: 856.797.0412 Fax: 856.722.1120

TITLE SHEET

BILL OF MATERIALS								
		1	VZWSMART KIT					
QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES				
12		VZWSMART-MSK2	CROSSOVER PLATE					
3		VZWSMART-SFK4	T-ARM KIT	FINAL LENGTH TO BE DETERMINED IN FIELD, CONTRACTOR TO TRIM AS REQUIRED				
3		VZWSMART-PLK7	COLLAR MOUNT					
	VZWSMART							
			OTHER REQUIRED P	DADTC				
QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES				
3	-	-	84" LONG, P3.0 STD PIPE	GALVANIZED - CONTRACTOR TO TRIM AS REQUIRED				

NOTE: ALL MATERIALS REQUIRED FOR THE DESIGNED MODIFICATIONS BUT NOT LISTED IN THIS SHEET ARE ASSUMED TO BE PROVIDED BY THE CONTRACTOR

	COMMSCOPE
CONTACT	SALVADOR ANGUIANO
PHONE	(817) 304-7492
EMAIL	SALVADOR.ANGUIANO@COMMSCOPE.COM
WEBSITE	WWW.COMMSCOPE.COM
N	IETROSITE FABRICATORS, LLC
CONTACT	KENT RAMEY
PHONE	(706) 335-7045 (O), (706) 982-9788 (M)
EMAIL	KENT@METROSITELLC.COM
WEBSITE	METROSITEFABRICATORS.COM
	PERFECTVISION
CONTACT	WIRELESS SALES
PHONE	(844) 887-6723
EMAIL	WWW.PERFECT-VISION.COM
WEBSITE	WIRELESSSALES@PERFECT-VISION.COM
	SABRE INDUSTRIES, INC.
CONTACT	ANGIE WELCH
PHONE	(866) 428-6937
EMAIL	AKWELCH@SABREINDUSTRIES.COM
WEBSITE	www.sabresitesolutions.com
	SITE PRO 1
CONTACT	PAULA BOSWELL
PHONE	(972) 236-9843
EMAIL	PAULA.BOSWELL@VALMONT.COM
WEBSITE	WWW.SITEPROI.COM

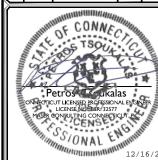
NOTE: WHEN SPECIFIED, VZWSMART KITS SHALL BE REQUIRED AND WILL BE VERIFIED DURING THE DESKTOP PMI





FOR STATE SPECIFIC DIRECT PHONE NUMBERS VISIT: WWW.CALLBIT.COM

REV DATE DESCRIPTION



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SITE NAME:

HARTFORD 9 CT 468180

250 SILAS DEANE HWY WETHERSFIELD, CT 06109 HARTFORD COUNTY



MT. LAUREL OFFICE 2000 Midlantic Drive Suite 100 Mount Laurel, NJ 08054

Phone: 856.797.0412 Fax: 856.722.1120

BILL OF MATERIALS

S-I

GENERAL NOTES

- THESE MODIFICATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE GOVERNING PROVISIONS OF THE TELECOMMUNICATIONS INDUSTRY STANDARD TIA-222-H. MATERIALS AND SERVICES PROVIDED BY THE CONTRACTOR SHALL CONFORM TO THE ABOVE MENTIONED CODES.
- CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT DAMAGE TO EXISTING STRUCTURES ANY DAMAGE TO EXISTING STRUCTURES AS A RESULT OF THE CONTRACTOR'S WORK OR FROM DAMAGE DUE TO OTHER CAUSES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
- CONTRACTOR SHALL VERIEY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE BEGINNING WORK, ORDERING MATERIAL, AND PREPARING OF SHOP DRAWINGS. ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER. IF THE CONTRACTOR DISCOVERS ANY EXISTING CONDITIONS THAT ARE NOT REPRESENTED ON THESE DRAWINGS. OR ANY CONDITIONS THAT WOULD INTERFERE WITH THE INSTALLATION OF THE MODIFICATIONS, NOTIFY THE ENGINEER IMMEDIATELY
- 4. IT IS ASSUMED THAT ANY STRUCTURAL MODIFICATION WORK SPECIFIED ON THESE PLANS WILL BE ACCOMPLISHED BY KNOWLEDGEABLE WORKMEN WITH TOWER CONSTRUCTION EXPERIENCE.
- THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION METHODS, MEANS, TECHNIQUES, SEQUENCES, AND PROCEDURES.
- ALL CONSTRUCTION MEANS AND METHODS; INCLUDING BUT NOT LIMITED TO, ERECTION PLANS, RIGGING PLANS, CLIMBING PLANS, AND RESCUE PLANS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR RESPONSIBLE FOR THE EXECUTION OF THE WORK CONTAINED HEREIN AND SHALL MEET ANSI/TIA-322 (LATEST EDITION), OSHA, AND GENERAL INDUSTRY STANDARDS. ALL RIGGING PLANS SHALL ADHERE TO ANSI/TIA-322 (LATEST EDITION) INCLUDING THE REQUIRED INVOLVEMENT OF A QUALIFIED ENGINEER FOR CLASS IV CONSTRUCTION.
- 7. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR INITIATING, MAINTAINING AND SUPERVISING ALL SAFETY PROGRAMS IN ACCORDANCE WITH APPLICABLE SAFETY CODES.
- WORK SHALL ONLY BE PERFORMED DURING CALM DRY DAYS (WINDS LESS THAN 30-MPH). THE STRUCTURE SHOWN ON THE DRAWINGS IS STRUCTURALLY SOUND ONLY IN THE COMPLETED FORM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STRENGTH AND STABILITY OF THE STRUCTURE DURING ERECTION. CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORT, SHORING, BRACING AND ANY OTHER STRUCTURAL SYSTEMS AS REQUIRED TO RESIST ALL FORCES THAT MAY OCCUR DURING HANDLING AND ERECTION UNTIL THE STRUCTURE IS FULLY COMPLETED. TEMPORARY SUPPORTS, BRACING AND OTHER STRUCTURAL SYSTEMS REQUIRED DURING CONSTRUCTION SHALL REMAIN THE CONTRACTOR'S PROPERTY AFTER THEIR USE.
- ALL INSTALLATIONS PERFORMED ON THIS STRUCTURE SHALL BE COMPLETED IN ACCORDANCE WITH THE GOVERNING PROVISIONS OF THE STANDARD FOR INSTALLATION, ALTERATION AND MAINTENANCE OF ANTENNA SUPPORTING STRUCTURES AND ANTENNAS, ANSI/TIA-322.
- 10. CONTRACTOR SHALL SECURE SITE BACK TO EXISTING CONDITION UNDER SUPERVISION OF OWNER ALL FENCE STONE GEOFABRIC GROUNDING AND SURROUNDING GRADE SHALL BE REPLACED AND REPAIRED AS REQUIRED TO ACHIEVE OWNER APPROVAL. POSITIVE DRAINAGE AWAY FROM TOWER SITE SHALL BE MAINTAINED.
- II. CONNECTIONS BETWEEN ITEMS SUPPORTED BY THE STRUCTURE AND THE STRUCTURE NOT SPECIFICALLY DETAILED IN THE CONTRACT DOCUMENTS ARE THE RESPONSIBILITY OF THE CONTRACTOR. SUCH CONNECTIONS SHALL BE DESIGNED, COORDINATED AND INSPECTED BY A PROFESSIONAL STRUCTURAL ENGINEER LICENSED IN THE STATE OF THE PROJECT. SUBMIT SIGNED AND SEALED CALCULATIONS DURING SHOP DRAWING REVIEW.
- 12. DO NOT SCALE DRAWINGS.
- 13. DO NOT USE THESE DRAWINGS FOR ANY OTHER SITE.
- 14. ALL MATERIAL UTILIZED FOR THIS PROJECT MUST BE NEW AND FREE OF ANY DEFECTS. ANY MATERIAL SUBSTITUTIONS, INCLUDING BUT NOT LIMITED TO ALTERED SIZE AND/OR STRENGTHS, MUST BE APPROVED BY THE OWNER AND ENGINEER IN WRITING.
- 15. THE MOUNT UNDER NO CIRCUMSTANCES SHOULD BE USED AS A TIE OFF

DESIGN LOADS

WIND LOADS

- a. BASIC WIND SPEED (3 SECOND GUST), V = 118 MPH
- b. EXPOSURE CATEGORY C
- c. TOPOGRAPHIC CATEGORY I
- d. MEAN BASE ELEVATION (AMSL) = 35.72'

- a. ICE WIND SPEED (3 SECOND GUST), V = 50 MPH
- b. ICE THICKNESS = 1.5 IN

SEISMIC LOADS

- a. SEISMIC DESIGN CATEGORY B
- b. SHORT TERM MCER GROUND MOTION, S_S = .194
- c. LONG TERM MCER GROUND MOTION, S₁ = .055

STRUCTURAL STEEL

- DESIGN, DETAILING, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING PUBLICATIONS EXCEPT AS SPECIFICALLY INDICATED IN THE CONTRACT DOCUMENTS.
 - a. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) MANUAL OF STEEL CONSTRUCTION (15TH EDITION)
- b. SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 **BOLTS**
- c. AISC CODE OF STANDARD PRACTICE
- 2. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING UNLESS OTHERWISE SHOWN:

CHANNELS, ANGLES, PLATES, ETC. ASTM A36 (GR 36) STEEL PIPE ASTM A53 (GR 35) ASTM A325 **BOLTS**

NUTS ASTM A563

LOCK WASHERS LOCKING STRUCTURAL GRADE

- 3. ALL SUBSTITUTIONS PROPOSED BY THE CONTRACTOR SHALL BE APPROVED IN WRITING BY THE ENGINEER. CONTRACTOR SHALL PROVIDE DOCUMENTATION TO ENGINEER FOR VERIFYING THE SUBSTITUTE IS SUITABLE FOR USE AND MEETS ORIGINAL DESIGN CRITERIA DIFFERENCES FROM THE ORIGINAL DESIGN. INCLUDING MAINTENANCE, REPAIR AND REPLACEMENT, SHALL BE NOTED. ESTIMATES OF COSTS/CREDITS ASSOCIATED WITH THE SUBSTITUTION (INCLUDING RE-DESIGN COSTS AND COSTS TO SUB-CONTRACTORS) SHALL BE PROVIDED TO THE ENGINEER. CONTRACTOR SHALL PROVIDE ADDITIONAL DOCUMENTATION AND/OR SPECIFICATIONS TO THE ENGINEER AS REQUESTED.
- 4. PROVIDE STRUCTURAL STEEL SHOP DRAWINGS TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION.
 - a. SUBMIT SHOP DRAWINGS TO GDULNIK@MASERCONSULTING.COM
 - b. PROVIDE MASER CONSULTING PROJECT # AND MASER CONSULTING PROJECT ENGINEER CONTACT IN THE BODY OF THE EMAIL.
- 5. DRILL NO HOLES IN ANY NEW OR EXISTING STRUCTURAL STEEL MEMBERS OTHER THAN THOSE SHOWN ON STRUCTURAL DRAWINGS WITHOUT THE APPROVAL OF THE ENGINEER OF RECORD.
- 6. GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
- 7. ALL NEW STEEL SHALL BE HOT BE DIPPED GALVANIZED FOR FULL WEATHER PROTECTION IN ADDITION ALL NEW STEEL SHALL BE PAINTED TO MATCH EXISTING STEEL. CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION TO PROTECT STEEL BY ANY OTHER MEANS.
- 8. ALL BOLT ASSEMBLIES FOR STRUCTURAL MEMBERS REPRESENTED IN THIS DRAWING REQUIRE LOCKING DEVICES TO BE INSTALLED IN ACCORDANCE WITH TIA-222-H SECTION 4.9.2 REQUIREMENTS.
- WHERE CONNECTIONS ARE NOT FULLY DETAILED ON THESE DRAWINGS, FABRICATOR SHALL DESIGN CONNECTIONS TO RESIST LOADS AND FORCES WHERE SHOWN ON DRAWINGS AND AS OUTLINED IN SPECIFICATIONS.
- 10. FOR MEMBERS BEING REPLACED, PROVIDE NEW BOLTS AND MATCH EXISTING SIZE AND GRADE. MAINTAIN AISC REQUIREMENTS FOR MINIMUM BOLT DISTANCE AND SPACING.
- II. ALL PROPOSED AND/OR REPLACED BOLTS SHALL BE OF SUFFICIENT LENGTH SUCH THAT THE END OF THE BOLT IS AT LEAST FLUSH WITH THE FACE OF THE NUT. IT IS NOT PERMITTED FOR THE BOLT END TO BE BELOW THE FACE OF THE NUT AFTER TIGHTENING IS COMPLETED.
- 12. GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
- 13. ALL NEW STEEL SHALL BE HOT BE DIPPED GALVANIZED FOR FULL WEATHER PROTECTION, CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION TO PROTECT STEEL BY ANY OTHER MEANS.

- 14. ALL EXISTING PAINTED/GALVANIZED SURFACES DAMAGED DURING REHAB INCLUDING AREAS UNDER STIFFENER PLATES SHALL BE WIRE BRUSHED CLEAN, REPAIRED BY COLD GALVANIZING (ZINGA OR ZINC COTE), AND REPAINTED TO MATCH THE EXISTING FINISH (IF APPLICABLE).
- 15. ALL HOLES IN STEEL MEMBERS SHALL BE SIZED 1/16" LARGER THAN THE BOLT DIAMETER. STANDARD HOLES SHALL BE USED UNLESS NOTED OTHERWISE.



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SITE NAME:

HARTFORD 9 CT 468180

250 SILAS DEANE HWY WETHERSFIELD, CT 06109 HARTFORD COUNTY



Phone: 856.797.0412 Fax: 856.722.1120

MODIFICATION NOTES

S-2

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTI

MODIFICATION INSPECTION NOTES

MI CHECKLIST					
CONSTRUCTION/ INSTALLATION INSPECTIONS AND TESTING REQUIRED (COMPLETED BY EOR)	REPORT ITEM				
	PRE-CONSTRUCTION				
X	MI CHECKLIST DRAWING				
X	EOR APPROVED SHOP DRAWINGS				
NA	FABRICATION INSPECTION				
NA	FABRICATOR CERTIFIED WELD INSPECTION				
Χ	MATERIAL TEST REPORT (MTR)				
NA	FABRICATOR NDE INSPECTION				
Χ	PACKING SLIPS				
ADDITIONAL TESTING AND INSPECTIO	NS:				
	CONSTRUCTION				
X CONSTRUCTION INSPECTIONS					
NA	CONTRACTOR'S CERTIFIED WELD INSPECTION AND NDE REPORTS				
Χ	ON SITE COLD GALVANIZING VERIFICATION				
Χ	GC AS-BUILT DOCUMENTS				
ADDITIONAL TESTING AND INSPECTIO	NS:				
	POST-CONSTRUCTION				
X	MI INSPECTOR REDLINE OR RECORD DRAWING(S)				
X	VZW PMI DOCUMENTS				
Χ	PHOTOGRAPHS				
additional testing and inspectio	ADDITIONAL TESTING AND INSPECTIONS:				

NOTE: X DENOTES A DOCUMENT REQUIRED FOR THE MI REPORT NA DENOTES A DOCUMENT THAT IS NOT REQUIRED FOR THE MI REPORT

THE MODIFICATION INSPECTION (MI) IS A VISUAL INSPECTION OF MODIFICATIONS AND A REVIEW OF CONSTRUCTION INSPECTIONS AND OTHER REPORTS TO ENSURE THE INSTALLATION WAS CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, NAMELY THE MODIFICATION DRAWINGS, AS DESIGNED BY THE ENGINEER OF RECORD (EOR)

THE MI IS TO CONFIRM INSTALLATION CONFIGURATION AND WORKMANSHIP ONLY AND IS NOT A REVIEW OF THE MODIFICATION DESIGN ITSELF, NOR DOES THE MI INSPECTOR TAKE OWNERSHIP OF THE MODIFICATION DESIGN. OWNERSHIP OF THE STRUCTURAL MODIFICATION DESIGN EFFECTIVENESS AND INTEGRITY RESIDES WITH THE EOR AT ALL TIMES.

TO ENSURE THAT THE REQUIREMENTS OF THE MI ARE MET, IT IS VITAL THAT THE GENERAL CONTRACTOR (GC) AND THE MI INSPECTOR BEGIN COMMUNICATING AND COORDINATING AS SOON AS A PURCHASE ORDER (PO) IS RECEIVED. IT IS EXPECTED THAT EACH PARTY WILL BE PROACTIVE IN REACHING OUT TO THE OTHER PARTY

MI INSPECTOR

THE MI INSPECTOR IS REQUIRED TO CONTACT THE GC AS SOON AS RECEIVING A PO FOR THE MI

- REVIEW THE REQUIREMENTS OF THE MI CHECKLIST
- WORK WITH THE GC TO DEVELOP A SCHEDULE TO CONDUCT ON-SITE INSPECTIONS

THE MI INSPECTOR IS RESPONSIBLE FOR COLLECTING ALL GC INSPECTION AND TEST REPORTS, REVIEWING THE DOCUMENTS FOR ADHERENCE TO THE CONTRACT DOCUMENTS, CONDUCTING THE IN-FIELD INSPECTIONS, AND SUBMITTING THE MI REPORT TO EOR.

GENERAL CONTRACTOR

THE GC IS REQUIRED TO CONTACT THE MI INSPECTOR AS SOON AS RECEIVING A PO FOR THE MODIFICATION INSTALLATION OR TURNKEY PROJECT TO, AT A MINIMUM:

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

THE GC SHALL PERFORM AND RECORD THE TEST AND INSPECTION RESULTS IN ACCORDANCE WITH THE REQUIREMENTS OF THE MI CHECKLIST

RECOMMENDATIONS

THE FOLLOWING RECOMMENDATIONS AND SUGGESTIONS ARE OFFERED TO ENHANCE THE EFFICIENCY AND EFFECTIVENESS OF DELIVERING AN MI REPORT:

- IT IS SUGGESTED THAT THE GC PROVIDE A MINIMUM OF 5 BUSINESS DAYS NOTICE, PREFERABLY 10, TO THE MI INSPECTOR AS TO WHEN THE SITE WILL BE READY FOR THE MI TO BE CONDUCTED.
- THE GC AND MI INSPECTOR COORDINATE CLOSELY THROUGHOUT THE ENTIRE PROJECT.
- WHEN POSSIBLE, IT IS PREFERRED TO HAVE THE GC AND MI INSPECTOR ON-SITE SIMULTANEOUSLY FOR ANY GUY WIRE TENSIONING OR RE-TENSIONING OPERATIONS.
- IT MAY BE BENEFICIAL TO INSTALL ALL MODIFICATIONS PRIOR TO CONDUCTING THE FOUNDATION INSPECTIONS TO ALLOW THE FOUNDATION AND MI INSPECTION(S) TO COMMENCE WITH ONE SITE VISIT.
- WHEN POSSIBLE. IT IS PREFERRED TO HAVE THE GC AND MI INSPECTOR ON-SITE DURING THE MI TO HAVE ANY DEFICIENCIES CORRECTED DURING THE INITIAL MI. THEREFORE, THE GC MAY CHOOSE TO COORDINATE THE MI CAREFULLY TO ENSURE ALL CONSTRUCTION FACILITIES ARE AT THEIR DISPOSAL WHEN THE MI INSPECTOR IS ON SITE.

CORRECTION OF FAILING MI'S

IF THE MODIFICATION INSTALLATION WOULD FAIL THE MI ("FAILED MI"), THE GC SHALL WORK WITH THE OWNER TO COORDINATE A REMEDIATION PLAN:

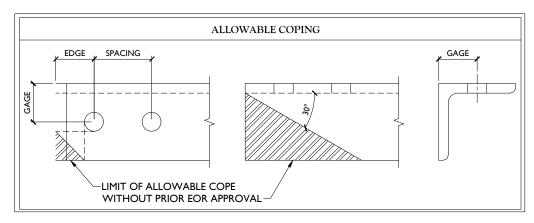
CORRECT FAILING ISSUES TO COMPLY WITH THE SPECIFICATIONS CONTAINED IN THE ORIGINAL CONTRACT DOCUMENTS AND COORDINATE A SUPPLEMENT MI.

REQUIRED PHOTOS

BETWEEN THE GC AND THE MI INSPECTOR THE FOLLOWING PHOTOGRAPHS, AT A MINIMUM, ARE TO BE TAKEN AND INCLUDED IN THE MI REPORT:

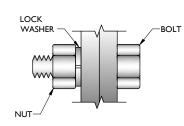
- PRE-CONSTRUCTION GENERAL SITE CONDITION
- PHOTOGRAPHS DURING THE REINFORCEMENT MODIFICATION CONSTRUCTION/ERECTION AND INSPECTION
- RAW MATERIALS
- PHOTOS OF ALL CRITICAL DETAILS FOUNDATION MODIFICATIONS
- WELD PREPARATION
- **BOLT INSTALLATION**
- FINAL INSTALLED CONDITION
- SURFACE COATING REPAIR
- POST CONSTRUCTION PHOTOGRAPHS
- FINAL INFIELD CONDITION

PHOTOS OF ELEVATED MODIFICATIONS TAKEN ONLY FROM THE GROUND SHALL BE CONSIDERED INADEOUATE.



BOLT SCHEDULE (IN.)							
BOLT DIAMETER	STANDARD HOLE	SHORT SLOT	MIN. EDGE DISTANCE	SPACING			
1/2	9/16	9/16 x 11/16	7/8	1 1/2			
5/8	11/16	11/16 x 7/8	1 1/8	I 7/8			
3/4	13/16	13/16 x 1	I I/4	2 1/4			
7/8	15/16	15/16 x 1 1/8	1 1/2	2 5/8			
I	1 1/16	I I/I6 x I 5/I6	I 3/4	3			

WORKABLE GAGES (IN.)				
LEG	GAGE			
4	2 1/2			
3 1/2	2			
3	I 3/4			
2 1/2	I 3/8			
2	I I/8			



TYP. BOLT ASSEMBLY

NOTES:

- ALL DIMENSIONS REPRESENTED IN THE ABOVE TABLES ARE AISC MINIMUM REQUIREMENTS. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN FIELD AND NOTIFY ENGINEER IF DISTANCES ARE LESS THAN THOSE PROVIDED.
- THE DIMENSIONS PROVIDED ARE MINIMUM REQUIREMENTS. ACTUAL DIMENSIONS OF PROPOSED MEMBERS WITHIN THESE DRAWINGS MAY VARY FROM THE AISC MINIMUM REQUIREMENTS.
- SHORT SLOT HOLES SHALL ONLY BE USED WHEN DEPICTED IN THE DRAWINGS
- MATCH EXISTING GAGES WHEN APPLICABLE, UNLESS MINIMUM EDGE DISTANCES ARE COMPROMISED

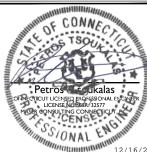


www.maserconsulting.com Office Locations:

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- NORTH CAROLINA SOUTH CAROLINA



REV DATE DESCRIPTION



IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTIO OF THE RESPONSIBLE LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

SITE NAME:

HARTFORD 9 CT 468180

250 SILAS DEANE HWY WETHERSFIELD, CT 06109 HARTFORD COUNTY

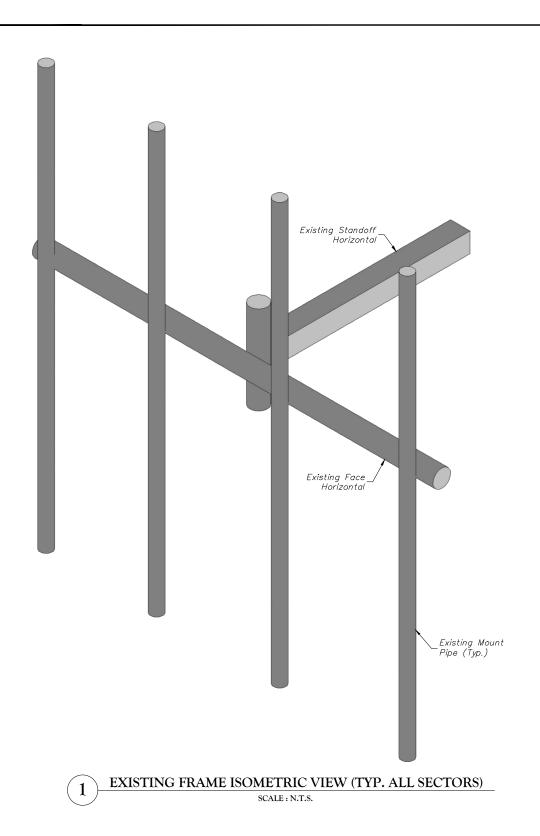


MT. LAUREL OFFICE Phone: 856.797.0412 Fax: 856.722.1120

MODIFICATION NOTES

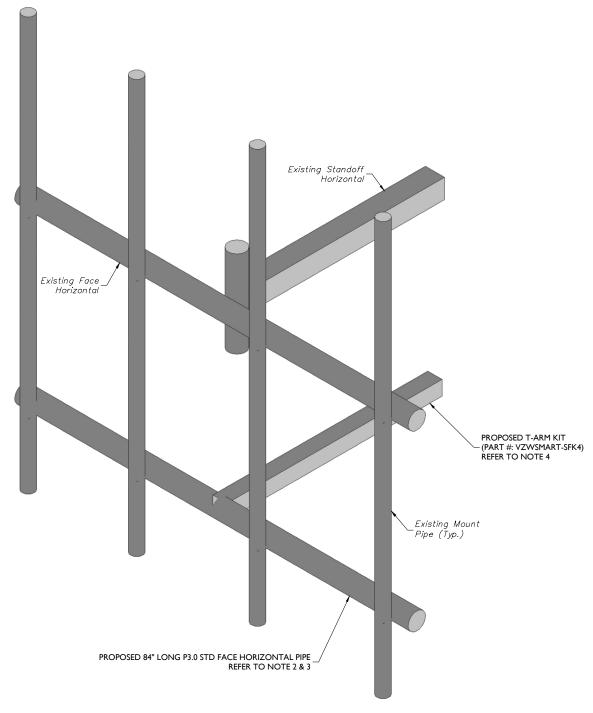
S-3

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION



STRUCTURAL NOTES:

- PER THE MOUNT MAPPING COMPLETED BY DELTA OAKS GROUP ON 10/26/2020, THE SAFETY CLIMB AND CLIMBING FACILITIES UP TO THE VERIZON MOUNT ELEVATION (89'-3") ARE IN GOOD CONDITION. MASER DOES NOT WARRANT THIS INFORMATION.
- 2. INSTALL SHALL NOT CAUSE HARM TO THE STRUCTURE, CLIMBING FACILITY, SAFETY CLIMB, OR ANY SYSTEM INSTALLED ON THE STRUCTURE. TIMELY NOTICE AND DOCUMENTATION SHALL BE PROVIDED BY CONTRACTORS TO THE EOR (OF STRUCTURAL DESIGN) IF AN OBSTRUCTION WAS REQUIRED TO MEET THE RF SYSTEM DESIGN REQUIREMENTS AND PERFORMANCES.



PROPOSED FRAME ISOMETRIC VIEW (TYP. ALL SECTORS)

MODIFICATION NOTES:

- I. MOUNT MEMBERS NOT SHOWN FOR CLARITY U.N.O.
- 2. RADIO AND/OR TME POSITIONS SHALL BE ADJUSTED VERTICALLY AS NEEDED IN ORDER TO ACHIEVE INSTALLATION OF HORIZONTAL AS SHOWN. EOR SHALL BE NOTIFIED IF EQUIPMENT NEEDS TO BE RELOCATED TO ANOTHER MOUNT PIPE.
- 3. CONNECT NEW HORIZONTAL TO ALL EXISTING VERTICAL MOUNT PIPES WITH CROSSOVER PLATES (PART #: VZWSMART-MSK2).
- 4. CONNECT PROPOSED STANDOFF (PART #: VZWSMART-SFK4) TO MONOPOLE WITH A COLLAR MOUNT (PART #: VZWSMART-PLK7).
- 5. REPLACE ALL RUSTED U-BOLTS ON THE MOUNT.



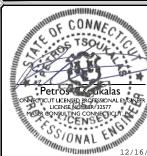
- NEW JERSEY NEW YORK
- PENNSYLVANIA VIRGINIA FLORIDA
- NORTH CAROLINA
 SOUTH CAROLINA
 opyright © 2020. Maser Consulting All Rights

■ GEORGIA ■ TEXAS





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ı	REV	DATE	DESCRIPTIO	N	DRAWN BY	CHECKED BY



IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF THE RESPONSIBLE LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

SITE NAME:

HARTFORD 9 CT 468180

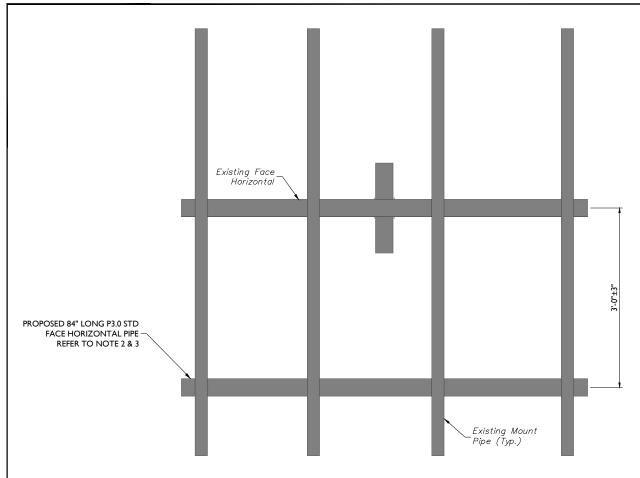
250 SILAS DEANE HWY WETHERSFIELD, CT 06109 HARTFORD COUNTY



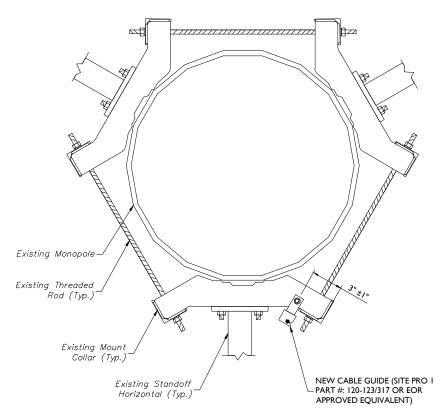
Phone: 856.797.0412 Fax: 856.722.1120

MODIFICATION DETAILS

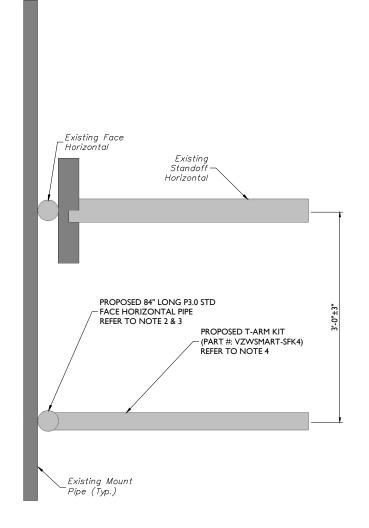
S-4



PROPOSED FRONT ELEVATION VIEW (TYP. ALL SECTORS) SCALE: N.T.S.



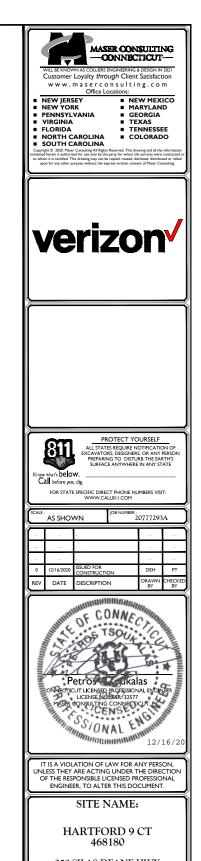
CABLE GUIDE COLLAR ATTACHMENT - PLAN VIEW



PROPOSED SIDE ELEVATION VIEW (TYP. ALL SECTORS) SCALE : N.T.S.

MODIFICATION NOTES:

- I. MOUNT MEMBERS NOT SHOWN FOR CLARITY U.N.O.
- 2. RADIO AND/OR TME POSITIONS SHALL BE ADJUSTED VERTICALLY AS NEEDED IN ORDER TO ACHIEVE INSTALLATION OF HORIZONTAL AS SHOWN. EOR SHALL BE NOTIFIED IF EQUIPMENT NEEDS TO BE RELOCATED TO ANOTHER MOUNT PIPE.
- CONNECT NEW HORIZONTAL TO ALL EXISTING VERTICAL MOUNT PIPES WITH CROSSOVER PLATES (PART #: VZWSMART-MSK2).
- 4. CONNECT PROPOSED STANDOFF (PART #: VZWSMART-SFK4) TO MONOPOLE WITH A COLLAR MOUNT (PART #: VZWSMART-PLK7).
- 5. REPLACE ALL RUSTED U-BOLTS ON THE MOUNT.



250 SILAS DEANE HWY WETHERSFIELD, CT 06109 HARTFORD COUNTY



MT. LAUREL OFFICE 2000 Midlantic Drive

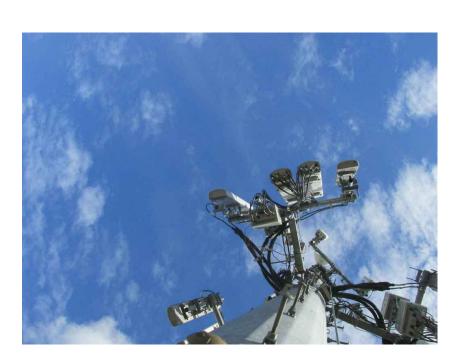
Phone: 856.797.0412 Fax: 856.722.1120

MODIFICATION DETAILS

S-5



MOUNT PHOTO 1



MOUNT PHOTO 3



MOUNT PHOTO 2



MOUNT PHOTO 4



| WILL BE KNOWN AS COLLERS BNGINEERING & DESIGN IN 2021
| Customer Loyalty through Client Satisfaction | w w w .m as er c o n s u | t in g .c o m Office Locations: | NEW JERSEY | NEW MEXICO | NEW YORK | MARYLAND | GEORGIA | YIRGINIA | GEORGIA | YIRGINIA | TEXAS | FLORIDA | TENNESSEE | NORTH CAROLINA | COLORADO | SOUTH CAROLINA | COLORADO | SOUTH CAROLINA | Conviging of a floring and all the interms | Conviging of a floring and all the interms | Conviging of a floring and all the interms | Conviging of a floring and all the interms | Conviging of a floring and all the interms | Conviging of a floring and all the interms | Conviging of a floring and all the interms | Conviging of a floring and all the interms | Conviging of a floring and all the interms | Conviging of a floring and all the interms | Conviging of a floring and all the interms | Conviging of a floring and all the interms | Conviging of a floring and all the interms | Conviging of a floring and a floring a

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 NEW MEXICO
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 COLORADO





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IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF THE RESPONSIBLE LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

SITE NAME:

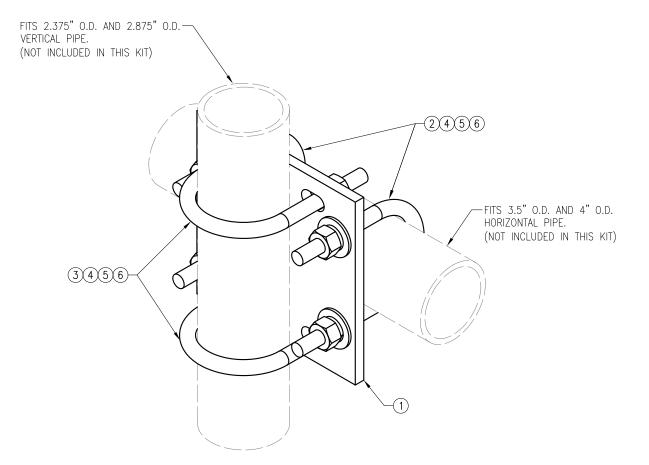
HARTFORD 9 CT 468180

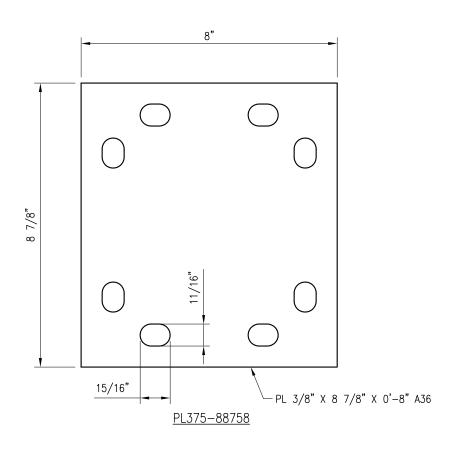
250 SILAS DEANE HWY WETHERSFIELD, CT 06109 HARTFORD COUNTY



MOUNT PHOTOS

S-6





	VZWSMART-MSK2 (CROSSOVER PLATE)								
ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT				
1	1	PL375-88758	PL 3/8" X 8 3/4" X 0'-8" A36	MSK2-F1	8				
2	2	MS02-625-4125-600	RU-BOLT 5/8" X 4 1/8" I.W. X 6" I.L. A36 (OR EQUIV.)	RBC-1	3				
3	2	MS02-625-300-500	RU-BOLT 5/8" X 3" I.W. X 5" I.L. A36 (OR EQUIV.)	RBC-1	3				
4	8	FW-625	5/8" HDG USS FLAT WASHER		1				
5	8	LW-625	5/8" HDG LOCK WASHER		0				
6	8	NUT-625	5/8" HDG HEX NUT		1				
GALVANIZED WT									

VzW SMART Tool[©] Vendor

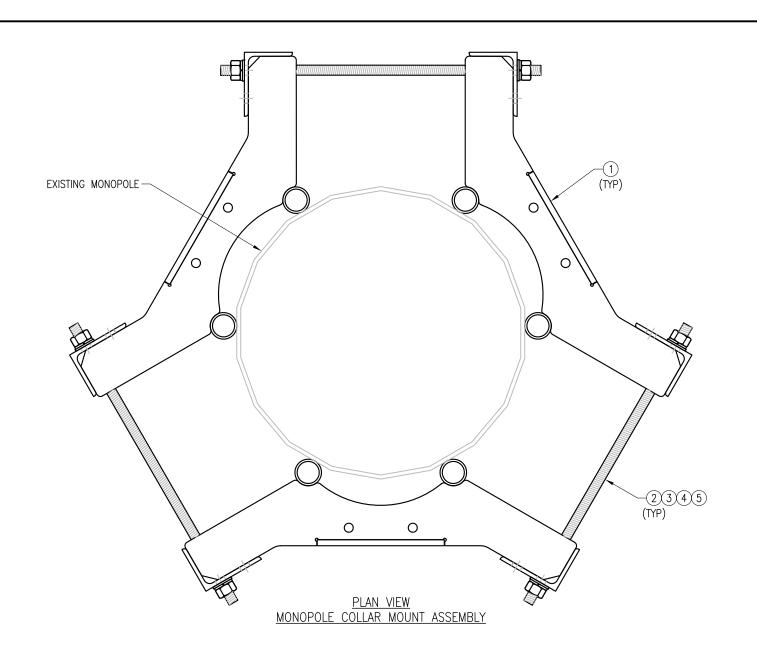
verizon

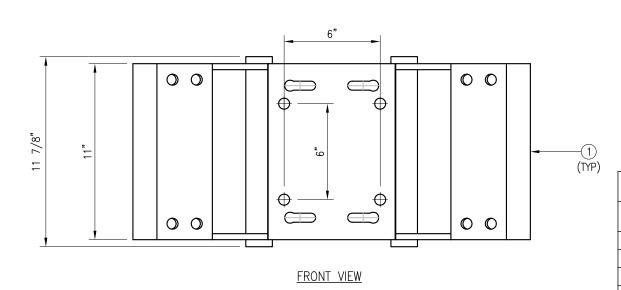
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REV. FIRST	DESCRIPTION ISSUE		H.R	DATE 05/08/20
	TLE: ZWSMAI ROSSOV		– .	

SHEET NUMBER: REV #:

VZWSMART-MSK2

NOTES:
1. HOT-DIPPED GALVANIZED PER ASTM A123.





VZWSMART-PLK7 (MONOPOLE COLLAR MOUNT ASSEMBLY)									
ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT				
1	3	CM-1245	COLLAR MOUNT ASSEMBLY	PLK7-F1	147				
2	6		THREADED ROD 5/8" X 4'-0" A193-B7						
3	12	FW-625	5/8" HDG USS FLAT WASHER		1				
4	12	LW-625	5/8" HDG LOCK WASHER		0				
5	12	NUT-625	5/8" HDG HEX NUT		1				

NOTES:

1. FIT 12" TO 45" DIA MONOPOLE.
2. HOT-DIPPED GALVANIZED PER ASTM A123.

SMART Tool[©] Vendor

verizon

VzW

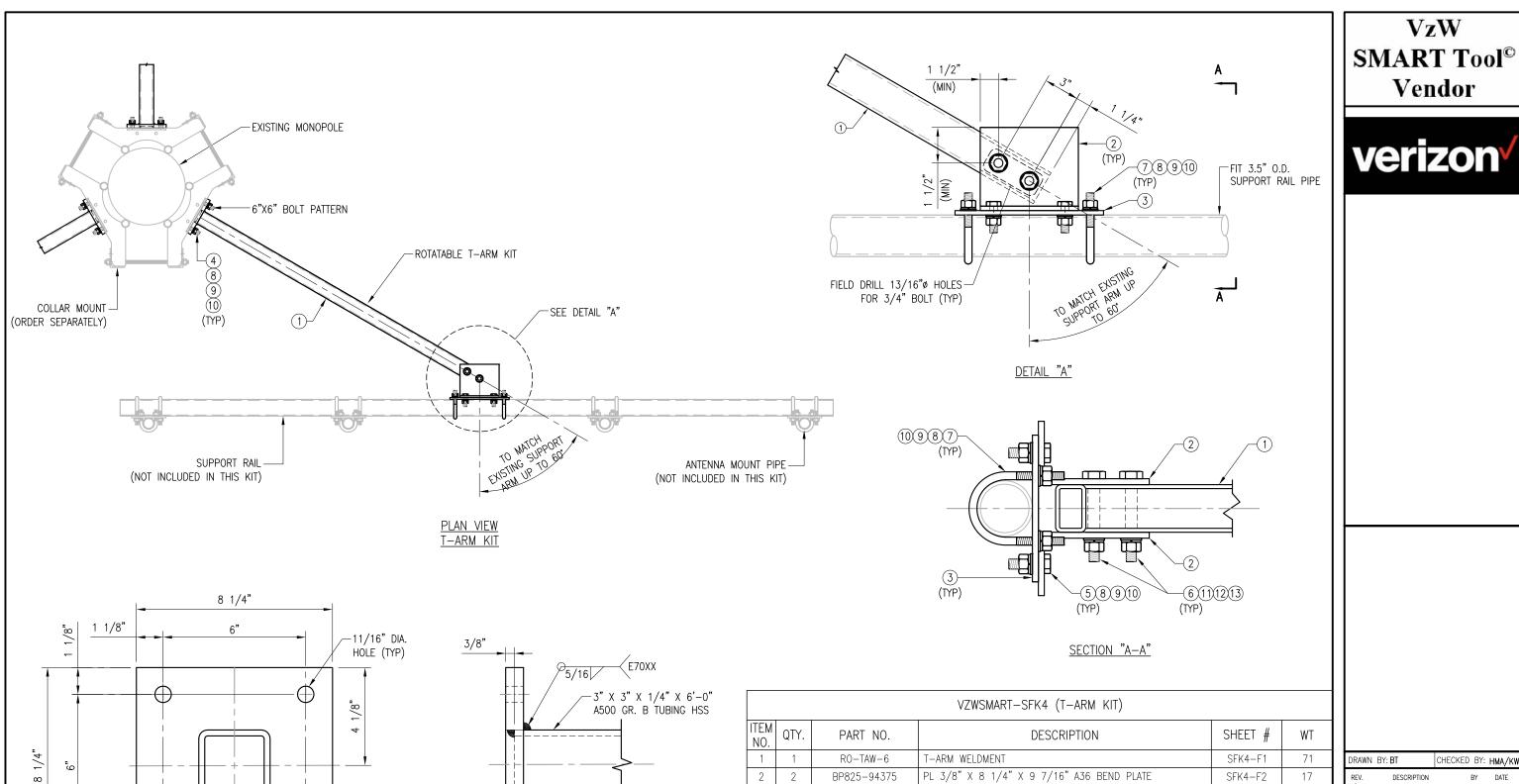
DRAWN BY: BT	CHECKED BY: HMA/KW					
REV. DESCRIPTION FIRST ISSUE	BY DATE BT 05/11/20					
SHEET TITLE:						

VZWSMART-PLK7 MONOPOLE COLLAR MOUNT ASSEMBLY

SHEEL NUMBER:	REV #:
VZWSMART-PLK7	0

150

GALVANIZED WT



E70XX 5/16

RO-TAW-6 WELDMENT

4 1/8"

1. HOT-DIPPED GALVANIZED PER ASTM A123.

FRONT VIEW

PL 3/8" X 9 1/4" X 1'-0 1/2" A36

BOLT 5/8" X 2 1/4" A325

BOLT 3/4" X 5 1/4" A325

2 MS02-625-3625-600 RU-BOLT 5/8" X 3 5/8" I.W. X 6" I.L. A36 (OR EQUIV.)

5/8" HDG USS FLAT WASHER

3/4" HDG USS FLAT WASHER

5/8" HDG LOCK WASHER

3/4" HDG LOCK WASHER

5/8" HDG HEX NUT

3/4" HDG HEX NUT

BOLT 5/8" X 2" A325

PL375-92512025

FW-625

LW-625

NUT-625

FW-75

LW-75

NUT-75

4

8

9

10

11

12

13

-PL 3/4" X 8 1/4" X 8 1/4" A572

SIDE VIEW

4

4

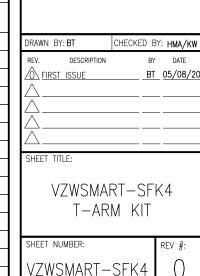
12

12

12

2

2



12

0

0

0

0

106

SFK4-F3

RBC-1

GALVANIZED WT

VzW

Vendor





March 29, 2021

Mr. Andrew Leone Verizon Wireless 20 Alexander Dr. Wallingford, CT 06492

Re: Verizon Wireless antenna Model Clarification for CT Siting Council

Dear Mr. Leone,

This letter is intended to clarify and confirm the antenna naming convention used by Verizon Wireless as a part of an antenna upgrade project on numerous wireless facilities.

The antenna naming convention "Licensed Sub-6, L-Sub6, nL-Sub6, VZS01" and any other slight variants refer to the 64T64RMMU antenna manufactured by Samsung Electronics. These names are interchangeable and are used in various documents, including but not limited to the "Antenna Mount Analysis".

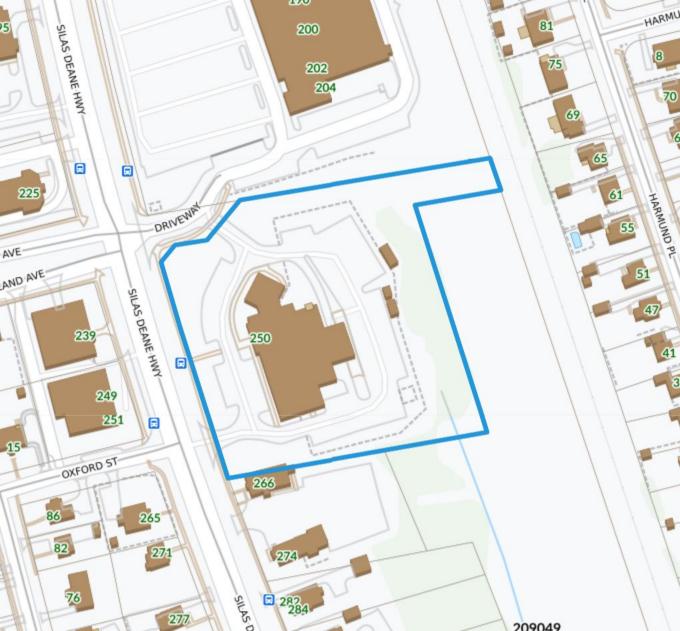
If you have any questions or comments, or require additional information, please do not hesitate to contact me.

Very truly voirs,
MASER CONSLITTING CONNECTICUT

Petros Y orkalasense Connecticar Professional Engineer

License Number: 925/7

ATTACHMENT 4

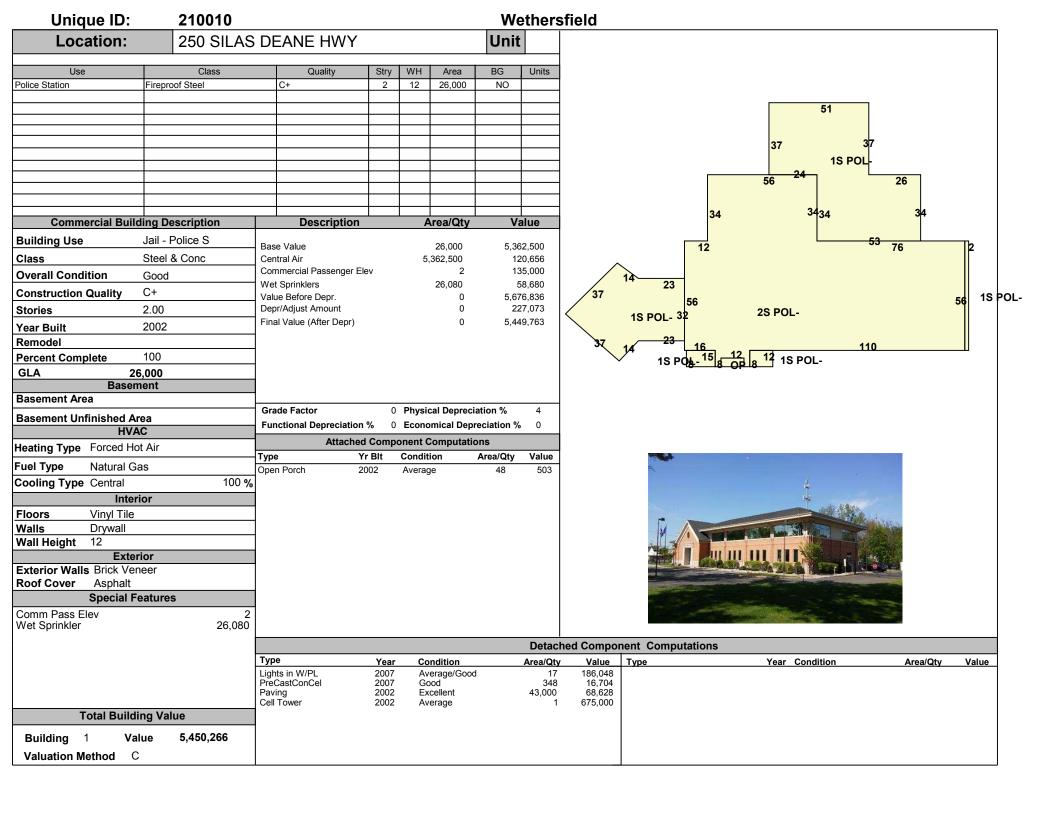


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Location:	250 SILAS	DEANE	HWY					N	lap/Lot:	21	0 010		Zone:	GB	Date	Printed:	08-06-19	
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WETHERSFIELD	TOWN OF P	OLICE FAC	ILITY						0784 /	0051	01-12	2-00				NO	1,300,000	
505 SILAS DEANE HWY WETHERSFIELD , CT 06109																		
Additional Owners				, -														
							Prior	Owner H	listory									
ROBERT JOSEPH L A & SCOVILLE HOMER									0333 /	0023	02-28	3-83				NO	725,000	
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									1									
Permit Number	Date	Cost	New Ho	ue G	Status	% Comp	Est Comple	ntion				Rı	uilding Permit	,				
M-18-0122	12-21-19	4,000	No.			100			RGENCY B	LIRNE	R REPLAC	EMENT BOI						
E-19-0100	04-26-19	326,280	No	_		100	06-26-					DEO SECUR		M				
P-19-0090	04-15-19	1,500	No			100	06-26-					R HEADS TO			N 2ND CC	MPUTER R	OOM	
M-19-0062	04-12-19	1,500	No			100		19 INS	TALL PAN U	INDER	HVAC UN	IT						
E-19-0175	04-08-19	10,000	Yes			100						om MDP-E to		to powe	r new UP			
M-19-0047	04-03-19	12,575	No.	Close	d	100				H COC	LING ON	Y ROOFTO	UNIT					
O /T	4923						State Ite		S	<u> </u>					Appraise	ed Value		
	4923	Davil of		Code		Quantity	Value	Code			Quantity	Value	Tota	al Land \	/alue	1	,274,948	
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05.0				22-Com	-	1.00	0,010,100											
Inspector EQ 25-Comm Outbldg 4.00 662,470					'			Total Outbuilding Value 946,3			946,380							
Action Measu	ıre & List												Tota	al Market	Value	7	671,594	
				Acr	es								Influence Factors					
Land Type	Acres	490		ate	Adj_	Ir	nfluence		al Value	Lan	d Type	Influ	ence Reas	on		Comment		
Primary Site	1.00	0.00		,000	1.00		150	I	50,000	Prim	ary Site	150	Intensi	/e Use				
Comm Excess	2.52	0.00	10	,000	0.99		0	:	24,948		,							
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Outbuilding Total		0,120		70,120	I	6,200	4,816,2		4,816,2	•								
I Otal	3,37	0,120	3,3	. 0, 120	7,01	5,200	7,010,2		7,010,2	_00				Tot	als			
							С	omment	ts					, . 50			<u> </u>	
CELL POLE 4500 M	ONTH, 8 CAP F	RATE																
4 X 3000 X 12= 144,																		
GENERATOR BACK		3 CELLS																

2003 CELL TOWER-180'

108,000/.11 CAP= 981,800

POLICE STATION



ATTACHMENT 5

HARTFORD 9



Certificate of Mailing — Firm

Name and Address of Sender	TOTAL NO. of Pieces Listed by Sender	TOTAL NO. of Pieces Received at Post Office™	Affix Stamp Here Postmark with Date			
Kenneth C. Baldwin, Esq. Robinson & Cole LLP 280 Trumbull Street Hartford, CT 06103	Rostmaster, per (name of receiving	employee)	ne	SPOSTAGE	ZIP 06103 041L12203937	
USPS® Tracking Number	Allama Street City	ddress , State, and ZIP Code™)	Postage	Fee 2 7	Special Handling	Parcel Airlift
Firm-specific Identifier 1.	Gary A. Evans, Town Town of Wethersfield 505 Silas Deane High Wethersfield, CT 061	Manager way		USPS		
2.	Peter Gillespie, Director of Town of Wethersfield 505 Silas Deane Highway Wethersfield, CT 06109	f Planning & Economic Develo	pment			
3,						
4.					*	
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