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

March 31, 2022

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 37 Peach Orchard Road, Prospect (a/k/a Clark Hill Road, Naugatuck), Connecticut

Dear Attorney Bachman:

Cellco Partnership d/b/a Verizon Wireless ("Cellco") currently maintains a wireless telecommunications facility at the above-referenced property address (the "Property"). The facility consists of antennas and remote radio heads attached to a tower and associated equipment on the ground near the base of the tower. The tower was approved by the Borough of Naugatuck ("Town") in July of 1991. Cellco's shared use of the tower was approved by the Siting Council ("Council") in November of 2013 (TS-VER-115-131009). A copy of the Town's tower approval and the Council's TS-VER-115-131009 approval are included in <u>Attachment 1</u>.

Cellco now intends to modify its facility by removing nine (9) existing antennas and installing three (3) new Samsung MT6407-77A antennas and six (6) new MX06FRO660-03 antennas on its existing antenna mounting structure. Cellco also intends to remove six (6) remote radio heads ("RRHs") and install six (6) new RRHs behind its antennas. A set of project plans showing Cellco's proposed facility modifications and the specifications for Cellco's new antennas and RRHs are included in Attachment 2.

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 Prospect's Chief Elected Official and Land Use Officer and Naugatuck's Chief Elected Official and Land Use Officer.

Melanie A. Bachman, Esq. March 31, 2022 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 new antennas will be installed on its existing antenna mounting structure.
- 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 Cellco's modified facility is included in Attachment 3. 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 and antenna platform, with certain modifications, can support Cellco's proposed modifications. Copies of the SA and MA are included in Attachment 4.

A copy of the parcel map and Property owner information is included in <u>Attachment 5</u>. A Certificate of Mailing verifying that this filing was sent to municipal officials and the property owner is included in <u>Attachment 6</u>.

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. March 31, 2022 Page 3

Sincerely,

Kenneth C. Baldwin

Kunig BMM-

Enclosures Copy to:

Robert Chatfield, Prospect Mayor
Mary Barton, Prospect Land Use Inspector
N. Warren "Pete" Hess III, Naugatuck Mayor
Lori Rotella, Naugatuck Town Planner
Counterpoint Communications, Inc., Property Owners (Prospect)
Tegna Broadcast Holdings LLC, Property Owners (Naugatuck)
Alex Tyurin, Verizon Wireless

ATTACHMENT 1



BOROUGH OF NAUGATUCK

INLAND WETLANDS COMMISSIÓN PLANNING COMMISSION ZONING BOARD OF APPEALS ZONING COMMISSION

> LANO USE OFFICE 213 CHUACH STREST NAUGATUCK, CT 06770 203/729-4571

I HEREBY CERTIFY THAT Channel 20, Inc owner of record
(owners address) 414 Meadow Street, Waterbury CT 06702 , filed an
application pursuant to Section 32 of the Zoning Regulations of
the Borough of Naugatuck for a SPECIAL PERMIT for property at
described in the attached Schedule A, which was APPROVED
AT THE MEETING OF THE ZONING COMMISSION HELD ON:
Wednesday , July 17, 1991
DAY
FOR THE PURPOSE OF: Erecting and operating a transmission and communication
tower with an overall height of 281 feet, with supporting anchors and
quy wires.
ŤH
() () () () () () () () () ()
SIGNED: Koher Wagner (CIM) Michael Monnie
Zoning Commission Chairman Zoning Enforcement Officer

This action shall be filed with the Town Clerk on the Land Records of the Town as required by Section 8-3c(b) of the State Statutes.

SCHEDULE A

All that certain piece or parcel of land situated on the southerly side of East Side Boulevard in the City of Waterbury and in the Borough of Naugatuck, County of New Haven and State of Connecticut, bounded and described as follows:

Beginning at a point in the southerly line of East Side Boulevard in the City of Waterbury, Connecticut at the northeasterly corner of a parcel designated as a 50' R.O.W. on a map entitled "Subdivision of Peach Orchard Estates, Section Four, Waterbury, Conn., August, 1972, Scale: 1"=50'" recorded in Map Drawer IV, Page 386 of Waterbury Land Records, said 50' R.O.W. being located easterly of Lot #107 as shown on said Map, thence running easterly in the southerly line of East Side Boulevard and in a line curving to the left having a radius of 110.26 feet, a distance of 50.00 feet to land now or formerly of L & M Builders, Incorporated, thence running in line of land now or formerly of L & M Builder, Incorporated S 2°43'42W and crossing the Waterbury-Naugatuck Town Line from Waterbury into Naugatuck S 1° 19' 46" E, 125.00 feet, thence continuing in line of land now or formerly of L & M Builders, Incorporated s 87° 32' 18" E, 100.22 feet to The Naugatuck-Prospect Town Line and land now or formerly of George and Jennie Nardozza, thence running in line of land now or formerly of George and Jennie Nardozza, land now or formerly of Mary F. Raynor, land now or formerly of Grace M. Perun, land now or formerly of Thomas Bros., Inc., and land now or formerly of Philip J. Langdo S 1° 19' 46" E, 821.13 feet to land now or formerly of Estate of Stanley J. Lucas, the last described line being the Naugatuck-Prospect Town Line, thence running in line of land now or formerly of Estate of Stanley J. Lucas N 73° 32' 16" W, 181.07 feet, N 70° 15' 58" W, 117.30 feet, and N 69° 28' 34" W, 130.68 feet, N 57° 19' 46" W, 94.73 feet, N 71° 30' 34" W, 73.64 feet, and N 80° 52' 16" W, 45.91 feet to a point, thence running in line of remaining land of Francis M. McWeeney, Jr., N 1° 19' 46" W, 200.00 feet, N 88° 40' 14" E, 266.87 feet, N 1° 19' 46" W, 516.79 feet to Lot #107 as shown on a map entitled "Subdivision of Peach Orchard Estates Section Four", thence running in line of said lot #107 and a 50' wide Right of Way S 97° 32' 18" E, 165.00 feet, the last described line being the Naugatuck-Waterbury Town Line, thence running in the easterly line of a 50' wide Right of Way N 30° 36' 32" E, 31.53 feet to East Side Boulevard and the point of beginning. Bounded:

- Northerly by Lot #107 "Peach Orchard Estates Section Four", a 50' wide Right of Way, East Side Boulevard, and land now or formerly of L & M Builders, Incorporated;
- Easterly by land now or formerly of George & Jennie Nardozza, land now or formerly of Mary F. Raynor, land now or formerly of Grace M. Perun, land now or formerly of Thomas Bros. Inc., and land now or formerly of Philip J. Langdo;
- Southerly by land now or formerly of Estate of Stanley J. Lucas;
- Westerly by land now or formerly of Francis M. McWeeney, Jr.

Being a portion of the premises conveyed to Francis M. McWeeney, Jr., by L & M Builders, Incorporated a/k/a L & M Builders, Inc. by Quit-Claim Deed dated and recorded December 11, 1973 in Volume 1122, Page 152 of the Waterbury Land Records and in Volume 180, Page 27 of the Naugatuck Land

SCHEDULE A (continued)

Together with a right of way over area designated at 50' R.O.W. on map of "Subdivision of Peach Orchard Estates Section Four, Waterbury, Conn., August, 1972, Scale: 1"=50'", recorded in Drawer IV, Page 386, Waterbury Land Records, said right of way being located easterly of Lot #107 as shown on said Map and running southerly from East Side Boulevard to the Waterbury-Naugatuck Town Line as described in Volume 1121, Pages 011 and 012 of Waterbury Land Records.

Together with an easement and right of way through, over, under and across (a) the remaining land owned by Francis M. McWeeney, Jr. located northerly of the Waterbury town line and lying between said town line and the southerly line of East Side Boulevard, as shown on a map entitled "Map of Land of Thomas Bros., Inc. Prospect, Conn. The A. J. Patton Co., Surveyor, Waterbury, Conn. June 15, 1979 Scale: 1" = 40' Additions Oct. 21, 1980" (the "Map"), and (b) the remaining land of Francis M. McWeeney, Jr. located in the Town of Naugatuck, bounded northerly by the Waterbury town line, westerly and southerly by the Premises and easterly by land N/F of Grace M. Franco, as shown on said Map, to use said lands for all purposes customarily made of a public highway, including, without limiting the generality of the foregoing, the right to pass and repass on foot or in vehicles, to enter upon, travel and transport materials over and upon said lands and, if necessary or convenient, in connection therewith, the right to grade, excavate, fill or otherwise improve said lands, said easement and right of way to terminate upon the completion of the construction of a television tower and station upon the Premises.

Together with a permanent easement and right of way sufficient in width to satisfy town road specifications for the zone district in which the remaining land of Francis M. McWeeney, Jr. (as defined herein and hereinafter referred to as the "Remaining Property") is located, said easement to begin at a point in the westerly boundary of the Premises and running therefrom generally westerly through, over, under and across the Remaining Property to any future public highway constructed on or which adjoins or benefits the Remaining Property, to use said land for all purposes customarily made of a public highway, including without limiting the generality of the foregoing, the right to lay, install and maintain sewer, water and storm water lines therein, the right to pass and repass on foot or in vehicles, and, if necessary or convenient, in connection therewith, the right to grade, excavate, fill or otherwise improve said right of way. Said easement and right of way shall be located in such area as Francis M. McWeeney, Jr. or his successor shall determine; provided, however, that said easement and right shall be subject to the approval of the Naugatuck Economic Development Commission.

STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051 Phone: (860) 827-2935 Fax: (860) 827-2950 E-Mail: siting.council@ct.gov www.ct.gov/csc

November 5, 2013

Kenneth C. Baldwin Robinson & Cole 280 Trumbull Street Hartford, CT 06103-3597

RE: T

TS-VER-115-131009 – Cellco Partnership d/b/a Verizon Wireless request for an order to approve the shared used of an existing telecommunications facility located at 37 Peach Orchard Road, Prospect, Connecticut.

Dear Attorney Baldwin:

At a public meeting held October 31, 2013, the Connecticut Siting Council (Council) ruled that the shared use of this existing tower site is technically, legally, environmentally, and economically feasible and meets public safety concerns, and therefore, in compliance with General Statutes § 16-50aa, the Council has ordered the shared use of this facility to avoid the unnecessary proliferation of tower structures with the following conditions:

- Any deviation from the proposed installation as specified in the original tower share request and supporting materials with the Council shall render this decision invalid;
- Any material changes to the proposed installation as specified in the original tower share request and
 supporting materials filed with the Council shall require an explicit request for modification to the Council
 pursuant to Connecticut General Statutes § 16-50aa, including all relevant information regarding the
 proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point of
 uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of
 Engineering and Technology, Bulletin 65;
- Not less than 45 days after completion of the proposed installation, the Council shall be notified in writing that the installation has been completed;
- The validity of this action shall expire one year from the date of this letter; and
- The applicant may file a request for an extension of time beyond the one year deadline provided that such request is submitted to the Council not less than 60 days prior to the expiration.

This decision is under the exclusive jurisdiction of the Council. This facility has been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on this tower. Any deviation from this format may result in the Council implementing enforcement proceedings pursuant to General Statutes § 16-50u including, without limitation, imposition of expenses resulting from such failure and of civil penalties in an amount not less than one thousand dollars per day for each day of construction or operation in material violation.

This decision applies only to this request for tower sharing and is not applicable to any other request or construction. Please be advised that the validity of this action shall expire one year from the date of this letter.

The proposed shared use is to be implemented as specified in your letter dated October 8, 2013, including the placement of all necessary equipment and shelters within the tower compound.

Thank you for your attention and cooperation.

Very truly yours,

Robert Stein
Chairman

RS/CDM/jb

c: The Honorable Robert J. Chatfield, Mayor, Town of Prospect William J. Donovan, Zoning Enforcement Officer, Town of Prospect Counterpoint Communications

ATTACHMENT 2

PROJECT NOTES

- SITE INFORMATION OBTAINED FROM THE FOLLOWING:
- A. LIMITED FIELD OBSERVATION BY MASER CONSULTING ON 08/30/21.
- POST-MOD ANTENNA MOUNT ANALYSIS REPORT PREPARED BY PAUL J. FORD & COMPANY OF COLUMBUS, OH DATED 08/12/21.
- - THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES ORDINANCES, LAWS AND REGULATIONS OF ALL MUNICIPALITIES, UTILITY COMPANIES OR OTHER PUBLIC/GOVERNING AUTHORTIES
 - THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER, IN WRITING, OF ANY CONFLICTS, ERRORS OR OMISSION PRIOR POT THE SUBMISSION OF BIDS OR PERFORMANCE OF WORK. 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 BE RESPONSIBLE FOR RROTECTING ALL SESTING SITE IMPROVERENTS PRIOR TO COMMERCING CONSTRUCTION THE CONTRACTOR SHALL REPRIE AND DAMAGE AS REJUT OF CONSTRUCTION OF THIS RACLIT AT THE CONTRACTORS SPENSET OTHE SATISFACTION OF THE COWNER.
 - 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 MANUJURACHRERS RECOMMENDATIONS.
 - THE CONTRACTOR SHALL VBIT THE PROJECT SITE PRIOR TO SUBMITTING THE BLD TO VERBY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND CONSTRUCTION DRAWINGS.
- THE CONTRACTOS SHALL VERTHER ALL ENSINED RESIDUSE AND COMUNDES PROPERTOR COMUNDES PROPERTOR SHALL WORK ALL PROPERTOR ENSINED CONTRUCTION SHALL NOT THE DRAWNISS PLATE REVENIED. THE CONTRACTOR SHALL NOT THE THE CONTRACTION SHALL NOT THE OFFICE THE WASHINGTON THE CONTRACTOR SHALL NOT THE OFFICE THE WASHINGTON THE SHALL SHALL
- SINCE THE CELL SITE MAY BE ACTIVE ALL SAFETY RECALITIONS MAY THE SEASON HAND WORKING AND NON HOLE HEEE OF ELECTROWN MISON TO SEQUIMPHOT SHOULD BE SHUTDOWN WING NO TEACH WORK THAT COULD BE SHOTS HE HAND WORK THAT COULD BE SHOTS THE WORKERS TO DANGER PROSANAL AN EXCOULD TO BE WORN TO CALLED TO BE WORN TO CALLED TO SHOW HAND TO SHOW THAT OP SHOTS TO SHOW HAND TO SHOW THE LIFELS.
- THE PROPOSED FACILITY WILL CAUSE AN INSIGNIFICANT OR "DE-MINIMUS" INCREASE IN STORM WATER RUNOFF, THEREFORE, NO DRAINAGE STRUCTURES ARE PROPOSED.
- 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).
 - THE FACILITY DOES NOT REQUIRE POTABLE WATER OR SANITARY SERVICE

 - CONTRACTOR SHALL VERIFY ANTENNA ELEVATION AND AZIMUTHS WITH RF ENGINEERING PRIOR TO INSTALLATION.
- THE TOWER, MOUNTS AND ANTENNAS SHALL BE DESIGNED TO MEET EIA/TIA-222-H AS PER IBC REQUIREMENTS.
- ALL STRUCTURAL ELEMENTS SHALL BE HOT DIPPED GALVANIZED STELL
- CONTRACTOR MUST FIELD LOCATE ALL EXISTING UNDERGROUND UTILITIES PRIOR TO ANY EXCAVATION. CONSTRUCTION SHALL NOT COMMBNGE UNTIL COMPLETION OF A PASSING STRUCTION AND AND STAND SHALL SHAL
- CONTRACTOR SHALL CONTACT STATE SPECIFIC ONE CALL SYSTEM THREE WORKING DAYS PRIOR TO ANY EARTH MOVING ACTIVITIES.

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Verizon

NEW JERSEY
NEW YORK
PENNSYLVANIA
VIRGINIA

SITE NAME: NAUGATUCK CT RELO FUZE I.D. NUMBER: 16486414 PLSC NUMBER: 468186

Verizon

37 PEACH ORCHARD RD NEW HAVEN COUNTY PROSPECT, CT 06712



CODE COMPLIANCE

ALL WORK AND MYTERALS SHALL BE PRIFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL CORRENING TO THE ALT ISSTED TO PREMIT WORK NOT

- 2018 CONNECTICUT STATE BUILDING CODE, INCORPORATING THE 2015 IBC
 - 2. 2017 NATIONAL ELECTRICAL CODE NFPA 70
- 4. AMERICAN INSTITUTE OF STEEL CONSTRUCTION 360-10 3. 2015 NFPA 101
- 5. AMERICAN CONCRETE INSTITUTE
- 6. TIA-222-G

CONSTRUCTION TYPE IIB

*** PMI AND REQUIREMENTS ARE EMBEDDED IN MOUNT ANALYSIS REPORT PMI LOCATION HTTPS://PMI/VZWSMART.COM SYART TOOL YENDOR PROJECT #, 1099463 YZW LOCATION CODE (PSLC): 468186 9812021 9812021 11. PROPOSED USE UNMANNED TELECOM FACILITY 12. HANDICAP REQUIRENEINS FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS NOT REQUIRED. 9. INSTITUTE FOR ELECTRICAL AND ELECTRONICS ENGINEERS 81 IEEE C2 LATEST EDITION 9. TELCORDIA GR-1275

10. ANSI TI.311

PROJECT DESCRIPTION/

THE PROPOSED PROJECT SCOPE INCLUDES MODIFYING TOWER MOUNTED EQUIPMENT AS INDICATED PER BELOW.

- REMOVE (9) EXISTING ANTENNAS
 INSTALL (9) PROPOSED ANTENNAS
 REMOVE (6) EXISTING REMOTE RADIO HEADS
 INSTALL (6) PROPOSED REMOTE RADIO HEADS
 INSTALL (9) PROPOSED REMOTE RADIO HEADS

VERIZON WIRELESS 118 FLANDERS ROAD, THIRD FLOOR WESTBOROUGH, MA 01581

COUNTERPOINT COMMUNICATION 37 PEACH ORCHARD ROAD PROSPECT, CT 06712

SHEET INDEX

SAI COMMUNICATIONS LLC 68 AVALON ROAD MILTON, MA 02186

C.2 ANTENNA LATOUTS
C.3 EQUIPMENT PLACEMENT DAGRAMS
A-1 CONSTRUCTION DETAILS
A-2 CONSTRUCTION DETAILS
G-1 GROONUNING DETAILS
G-1 PM REQUIREMENTS
MOUNT MODIFICATION DRAWING PARTIAL SITE PLAN & ELEVATION VIEW

MASER CONSULTING CONNECTICUT
PETE ALBANO
(856) 797-041.2
PETER ALBANO@COLLIERSENGINEERING.

CONTRACTOR PMI

REQUIREMENT

SITE NAMES NAUGATUCK CT RELO

37 PEACH ORCHARD RD PROSPECT, CT 06712 NEW HAVEN COUNTY

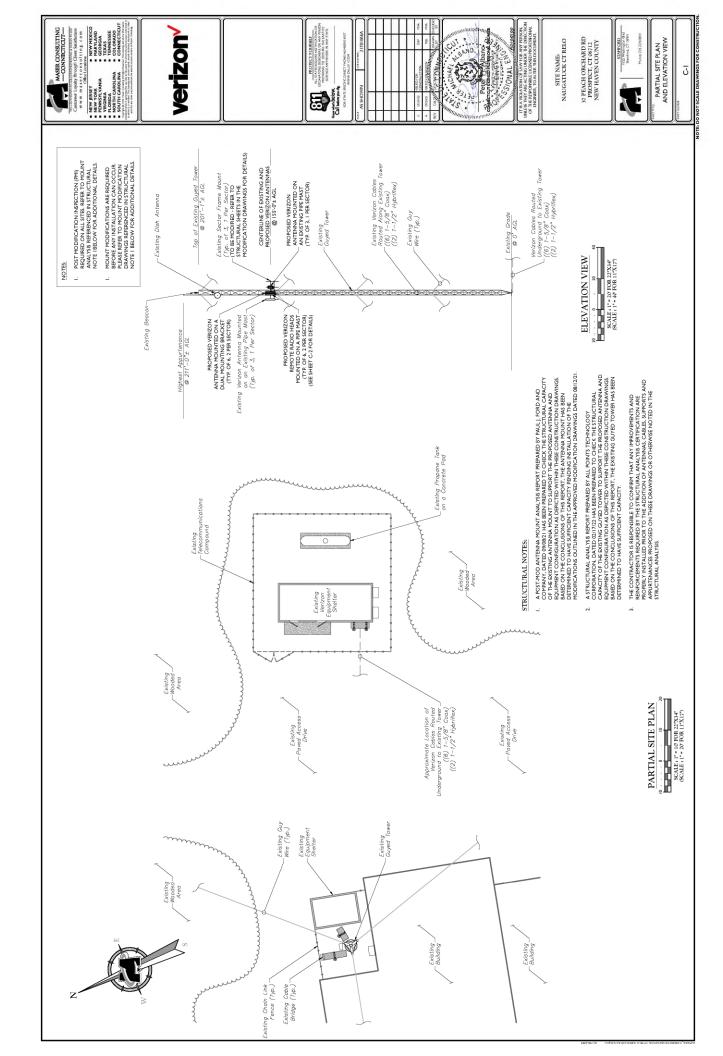
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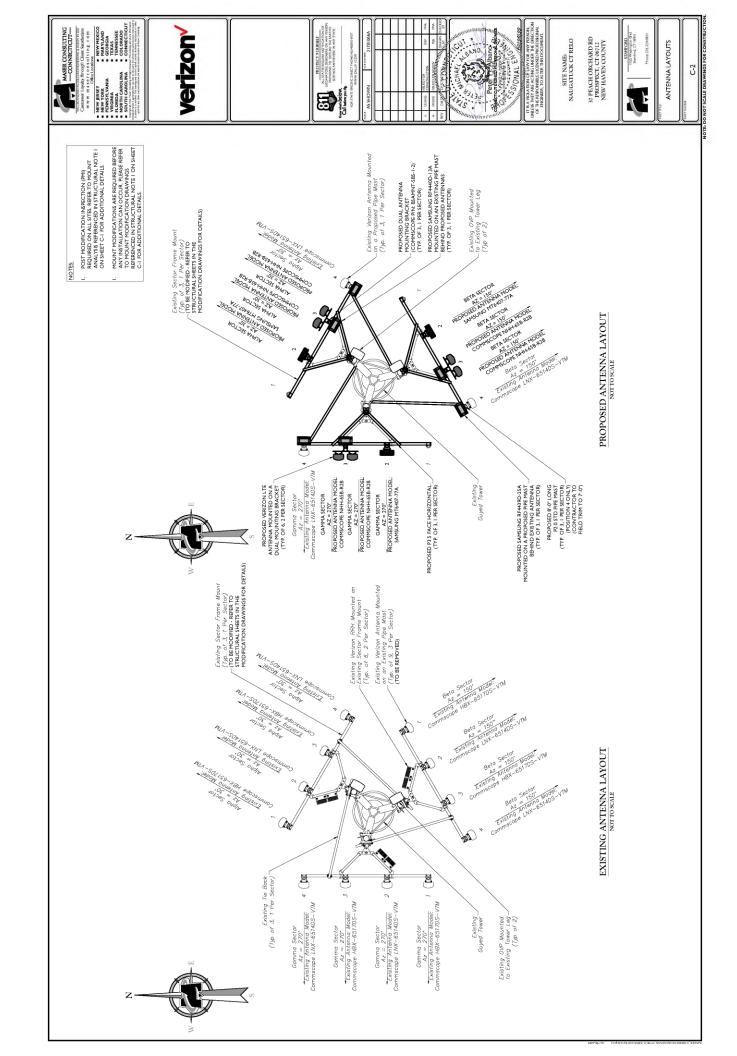
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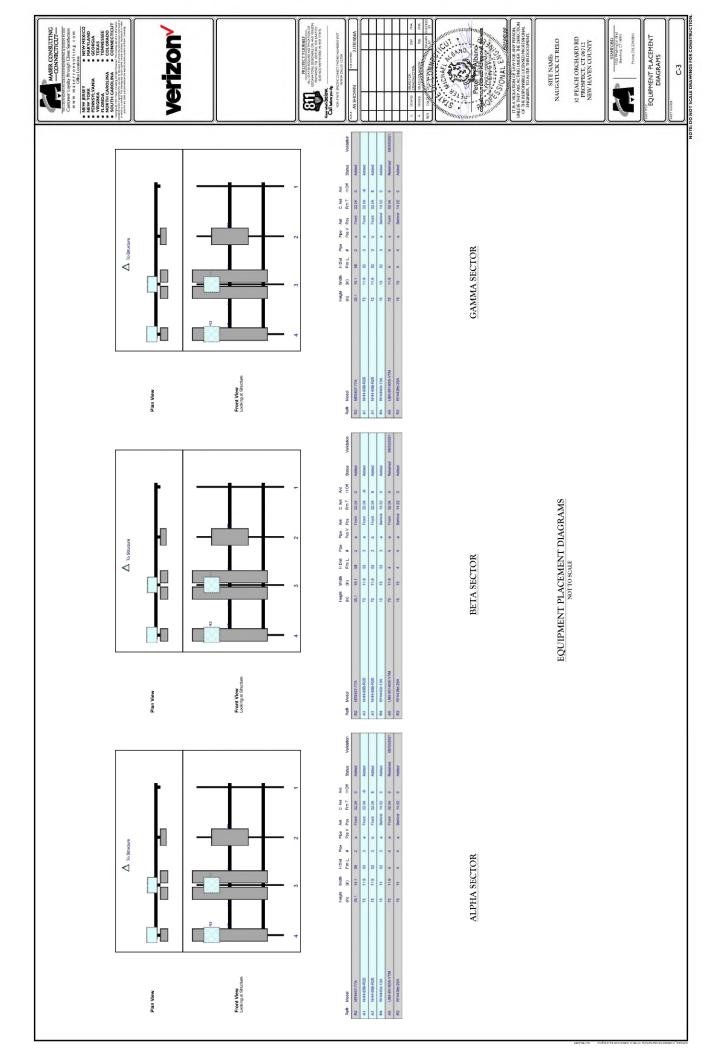
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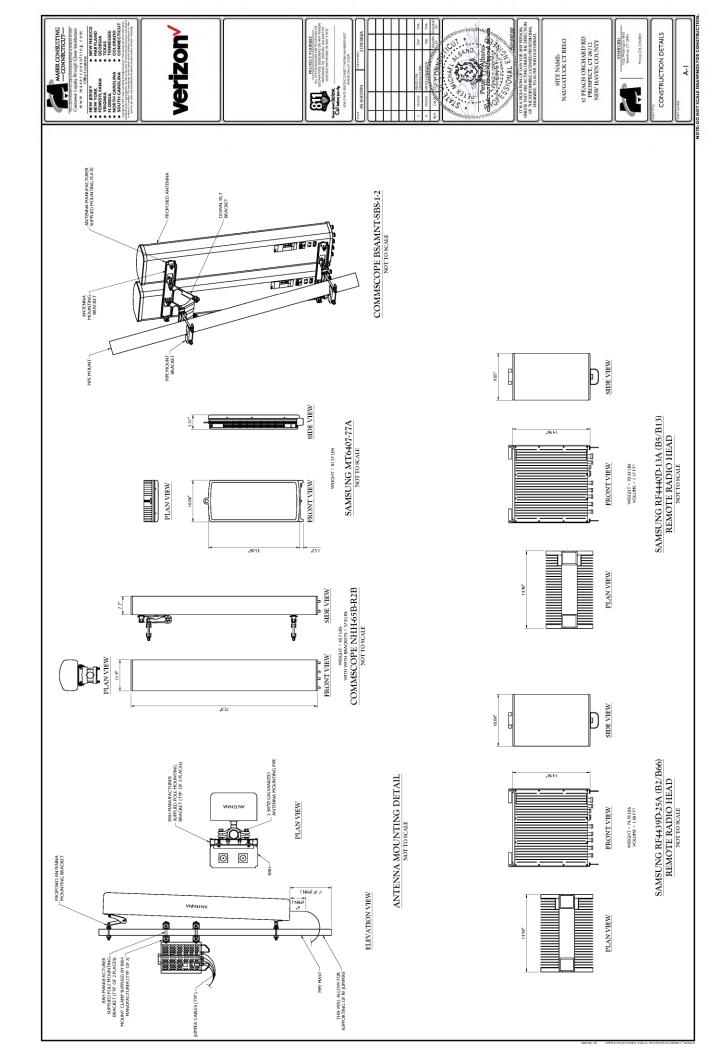
REFER TO MOUNT MODIFICATION DRAWINGS PAGE FOR VZW SMART KIT APPROVED VENDORS

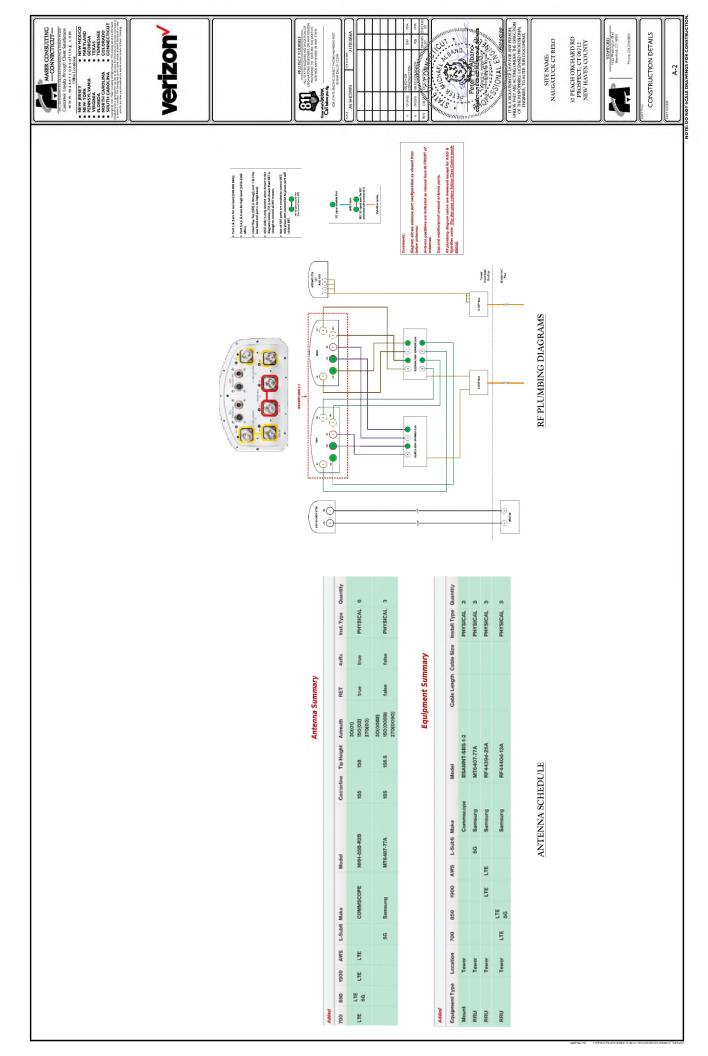
MOUNT MODIFICATIONS REQUIRED: YES

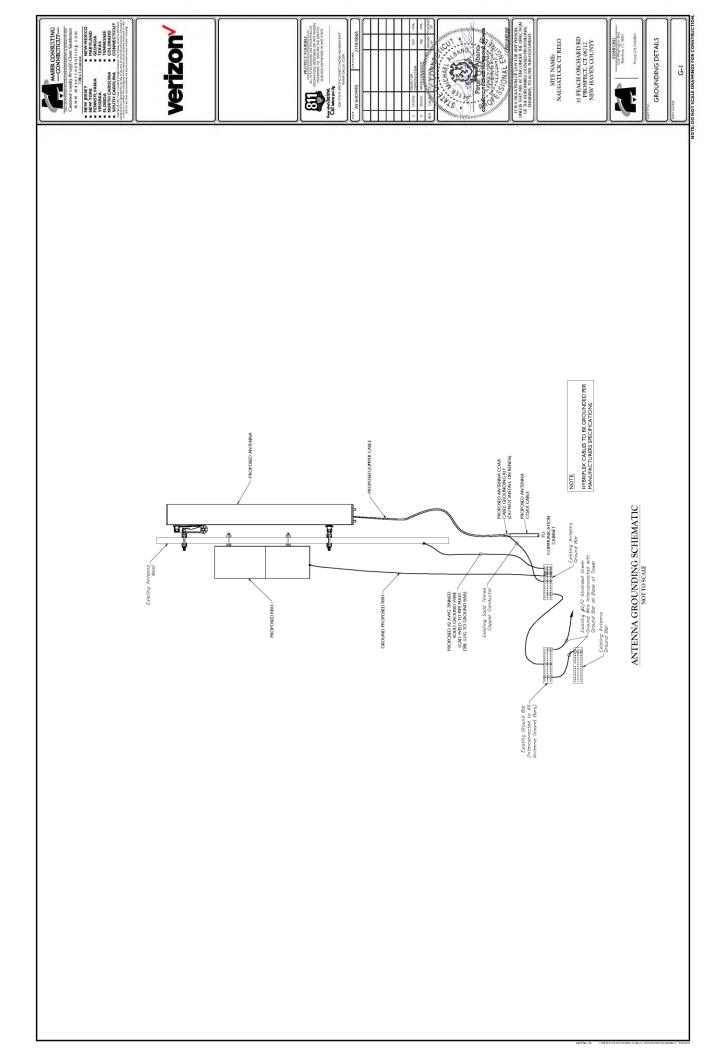












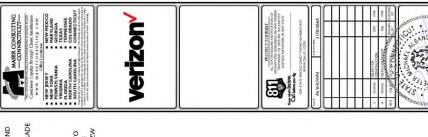
post-modification inspection (pmi) requirements

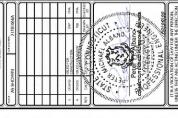
- PMI REQUIRED FOR ALL SITES, REFER TO VERIZON NSTD-446 SECTION 1.5 AND 2.3 FOR MORE INFORMATION
- CONTRACTOR SHALL REFER TO THE MOUNT ANALYSIS BY COLLIERS ENGINEERING & DESIGN, INC DATED 09/08/21 FOR ADDITIONAL
- GENERAL CONTRACTOR SHALL PROVIDE THE BELOW DOCUMENTATION TO THE STRUCTURAL ENGINEER OF RECORD VIA EMAIL, DROPBOX, OR OTHER FILE SHARE METHOD. PROVIDE HIGH RESOLUTION PHOTO'S (DO NOT COMPRES).
- STRUCTURAL ENGINEER OF RECORD WILL CONDUCT A REVIEW OF THE PROVIDED DOCUMENTS TO PREPARE A PMI REPORT
- STRUCTURAL ENGINEER OF RECORD WILL NOTIFY GENERAL CONTRACTOR IF ANY ADDITIONAL DOCUMENTATION IS REQUIRED TO COMPLETE THE PMI.

PMI DOCUMENTATION SHALL BE SUFFICIENT TO CONFIRM THE UPGRADE WAS BUILT AS DESIGNED, INCLUDING EQUIPMENT CHANGES AND STRUCTURAL MODIFICATIONS, AND IS IN ADDITION TO ANY OTHER REQUIRED CLOSEOUT PACKAGE DOCUMENTATION.

- REQUIRED DOCUMENTATION FOR PMI INCLUDES THE FOLLOWING AT A MINIMUM. REFER TO THE MOUNT ANALYSIS FOR POSSIBLE ADDITIONAL INFORMATION. IF STRUCTURAL MODIFICATIONS ARE REQUIRED, REFER TO THE MODIFICATION DRAWINGS FOR POSSIBLE ADDITIONAL REQUIREMENTS.
- STRUCTURALMOUNT MODIFICATION DRAWINGS. CONTRACTOR SHALL RELAY ANY DATA THAT CAN IMPACT THE PERFORMANCE OF THE MOUNT OR MOUNT MODIFICATION, INCLUDING SAFETY ISSUES, PHOTOS SHALL HAVE A DATE/TIME STAMP IN THE PHOTO. REFET TO THE MOUNT ANALYSIS FOR SCHEDULE OF REQUIRED PHOTOS. PROVIDE PHOTOS OF THE GATE SIGNS AND CARRIER SHELTER TO IDENTIFY THE TOWNER OWNER, SITE NAME, SITE NUMBR. ETC. PROVIDE PRE-AND-POST CONSTRUCTION PHOTOS OF EACH SECTOR FROM THE MOUNT ELEVATION AND THE GROUND. CONTRACTOR IS RESPONSIBLE FOR ENSURING THE PHOTO'S PROVIDED PROVIDE POSITIVE CONFIRMATION THAT THE MODIFICATION/UPGRADE WAS COMPLETED IN ACCORDANCE WITH THESE CONSTRUCTION DRAWINGS AND ANY
- b. VERIFICATION OF THE MEMBER CONNECTIONS, BRACING, AND RELEVANT DIMENSIONS.
- EQUIPMENT, AS WELL AS THE FEEDLINE CONFIGURATION). TAKE PHOTOS OF THE BACK SIDE OF EACH SECTOR AS WELL AS CLOSE-UPS OF ALL EQUIPMENT. PHOTOS SHOULD CONFIRM THE HORIZONTAL AND VERTICAL POSITIONING OF THE ANTENINAS c. VERIFICATION OF THE ANTENNA AND OTHER EQUIPMENT CONFIGURATION (PHOTOS OF MODEL NUMBERS/TAGS FOR ALL AND EQUIPMENT AND SHALL HAVE TAPE MEASURES IN THE PHOTOS TO CONFIRM.
- FOR TIEBACKS, STRUTS, MOUNT PIPES, PHOTOS TO CONFIRM THE ANGLES AND LOCATIONS OF ATTACHMENT POINT AT BOTH ENDS OF MEMBER, AS WELL AS DIMENSIONS, THICKNESS, AND LENGTHS OF THE MEMBERS. REFER TO THE CHECKLIST IN THE MOUNT ANALYSIS OR MOUNT MOD DRAWINGS FOR ADDITIONAL INFORMATION.
- MATERIALS USED (TYPE, STRENGTH, DIMENSIONS, ETC.). PROVIDE BILL OF MATERIAL AND MATERIAL SPEC TO CONFIRM MATERIAL GRADES AND SIZES, PROVIDE DOCUMENTATION FOR GALVANIZATION OF MEMBERS WHETHER HOT-DIPPED OR COLD-GALVANIZED. IF MATERIALS DIFFER FROM THOSE SPECIFIED ON THESE DRAWINGS, PROVIDE DOCUMENTATION THAT THE "EQUIVALENT" MATERIAL HAS THE SAME SPECIFICATIONS.
- MOUNT ORIENTATION/AZIMUTH AND ELEVATION. PROVIDE TAPE DROP OF ANTENNA CENTERLINE(S) AND MOUNT ATTACHMENT POINTS TO THE SUPPORTING STRUCTURE. IF THERE ARE MULTIPLE RAD CENTERS, PROVIDE PHOTOS OF ALL
- VERIFICATION THAT THE INSTALL HAS NOT CAUSED DAMAGE TO OR UNPLANNED OBSTRUCTION OF THE FOLLOWING:
- CLIMBING FACILITIES
- SAFETY CLIMB IF PRESENT, INCLUDING PHOTOS ABOVE AND BELOW THE MOUNT
- LIGHTING SYSTEMS
- OTHER INSTALLED SYSTEMS ON THE STRUCTURE
- •CONTRACTOR SHALL ENSURE THE SAFETY CLIMB IS SUPPORTED AND NOT ADVERSELY AFFECTED BY THE INSTALLATION OF NEW COMPONENTS. THIS MAY INVOLVE THE INSTALLATION OF WIRE ROPE GUIDES OR OTHER ITEMS TO PROTECT THE WIRE
- OTHER ITEMS DETERMINED BY THE STRUCTURAL ENGINEER TO ENSURE THE MOUNT WILL PERFORM AS DESIGNED. PHOTOS OF relevant measurements, with sufficient details to confirm connection details, placement of equipment, wall anchor details, ballast quantities, structural modification etc. Diameters and thickness of boltstitreaded RODS/ANGLES/TUBES ETC. SHALL HAVE PHOTOS CONFIRMING CALIPER MEASUREMENTS.
- •CONFIRMATION THAT ALL HARDWARE WAS PROPERLY INSTALLED, AND EXISTING HARDWARE WAS INSPECTED FOR ANY
- •FOR BALLAST SLEDS, DOCUMENTATION OF THE WEIGHT OF BALLAST IN EACH SECTOR
- •FOR WALL ANCHORS, PHOTOS, AND MEASUREMENTS OF OUTSIDE AND INSIDE OF CONNECTIONS, DOCUMENTATIONS OF ADHESIVE USED, SIZE AND LENGTH OF ANCHORS, EFFECTIVE EMBEDMENT DEPTH OF THE ANCHORS, GROUTING OF HOLLOW WALLS, SPACING AND EDGE DISTANCE MEASUREMENTS, AND ANY THROUGH-BOLTS OR BACKING PLATES.
- FOR STUD WELD CONNECTION, DOCUMENTATION TO CONFIRM SURFACE PREPARATION, STUD WELD SIZE, GRADE, LENGTH, AND SPACING.
- •FOR FABRICATED PARTS, SHOP DRAWINGS TO BE APPROVED BY THE ENGINEER OF RECORD PRIOR TO CONSTRUCTION
- FOR WELD PARTS, CERTIFIED WELD INSPECTION
- FOR BOLTED PARTS, BOLT INSTALLATION AND TORQUE
- CONTRACTOR SHALL PROVIDE, IN ADDITION TO THE ABOVE, AS BUILT CDS WITH REDLINES IDENTIFYING ANY CHANGES. THE AS-BUILTS SHALL HAVE THE CONTRACTOR'S NAME, PREPARER'S SIGNATURE, AND DATE.
- IF THE MODIFICATION INSTALLATION WOULD FAIL THE PMI ("FAILED PMI"), THE CONTRACTOR SHALL WORK WITH THE ENGINEER OF RECORD TO COORDINATE A REMEDIATION PLAN IN ONE OF TWO WAYS.

- CORRECT FAILING ISSUES TO COMPLY WITH THE SPECIFICATIONS CONTAINED IN THE ORIGINAL CONTRACT DOCUMENTS AND COORDINATE A SUPPLEMENTAL PMI.
- OR, WITH EOR'S APPROVAL, THE GC MAY WORK WITH THE EOR TO RE-ANALYZE THE MODIFICATION/REINFORCEMENT/UPGRADE USING THE AS-BUILT CONDITION
- NOTE. IF LOADING IS DIFFERENT THAN THAT SHOWN IN THESE CONSTRUCTION DRAWINGS OR STRUCTURAL/ MOUNT MODIFICATION DRAWINGS, CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD IMMEDIATELY FOR RESOLUTION.
- COMPLETED BY THE INSTALLING CONTRACTOR. THE COMPLACTOR SHALL THEN PROVIDE POST-INSTALLATION INFORMATION TO THE STRUCTURAL BIGNIER. THE STRUCTURAL BIGNIER. SHALL REPURE THE DOCUMENTS FOR ANY DEFICIENCIES THAT CAN BE DETERMINED RROW THE DESCRIPT OF ANY OF THE DAY. THE REVIOLERING FIRM SHALL THEN REVOVED DOCUMENTATION TO VZW. THE ENGINEERING FIRM PERFORMING AN ANALYSIS SHALL PROVIDE A CONTRACTOR'S PHOTO LOG AND CHECKLIST TO BE THAT THE SITE IS COMPLETED, AND THE PMI REPORT IS APPROVED. 0.





SITE NAME, NAUGATUCK CT RELO

37 PEACH ORCHARD RD PROSPECT, CT 06712 NEW HAVEN COUNTY

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PMI REQUIREMENTS

OT SCALE DRAWINGS FOR CONSTRUC Į.

ST-1



MOUNT MODIFICATION DRAWINGS PROPOSED CARRIER: VERIZON

468186-VZW / NAUGATUCK CT RELO

LAT: 41° 31' 07.00"; LONG: -73° 01' 00.00" PROSPECT, CONNECTICUT 06712 37 PEACH ORCHARD RD **NEW HAVEN COUNTY**

TOWER OWNER: COUNTERPOINT COMMUNICATIONS, INC.

FUZE ID # 16486414

	SHEET INDEX	
SHEET	DESCRIPTION	REV
ST-1	TITLE SHEET	0
SBOM	BILL OF MATERIALS	0
SGN-1	GENERAL NOTES	0
SCF-1	CLIMBING FACILITY DETAILS	0
SS-1	MODIFICATION DETAILS	0
SS-2	MOUNT PHOTOS	0
	SPECIFICATION SHEETS	

	REV	0	0	0	0	0	0	
SHEET INDEX	DESCRIPTION	TITLE SHEET	BILL OF MATERIALS	GENERAL NOTES	CLIMBING FACILITY DETAILS	MODIFICATION DETAILS	SOTOHY TNUOM	SPECIFICATION SHEETS
	SHEET	1-1S	MOBS	SGN-1	SCF-1	P-SS	SS-2	

	ı
NO CHANGE	DESCRIPTION
9/15/21	DATE
1	REV

VZW APPROVED SMART KIT VENDORS
REFER TO MOUNT MODIFICATION DRAWINGS PAGE FOR VZW SMART KIT APPROVED
VENDORS

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

HTTPS://PMI.VZWSMART.COM

SMART TOOL VENDOR PROJECT# VZW LOCATION CODE (PSLC)

PMI ACCESSED AT

CONTRACTOR PMI REQUIREMENTS

BILL OF MATERIALS

SBOM

VERIZON WIRELESS

MOUNT MODIFICATION DRAWINGS РРОЅРЕСТ, СОИИЕСТІСИТ 468186-VZW / NAUGATUCK CT RELO



		NOTES		FIELD TRIM TO 7 - 0"								NOTES						
		MATERIAL	ABTRITAGS (Gr. 8-35)	ASTM A53 (Gr. B-35)								MATERIAL						NTRACTOR.
rs		TOTAL WEIGHT (LBS)	STANK C	139.20	OP THE STREET	702.00	180.00	252.00			KTS	TOTAL WEIGHT (LBS)					1641.45	O BE PROVIDED BY THE CO
BILL OF MATERIALS	VZWSMART KITS	PIECE WEIGHT (LBS)		46.40	No.	117.00	15.00	84.00			OTHER REQUIRED PARTS	PIECE WEIGHT (LBS)					TOTAL WEIGHT =	S SHEET ARE ASSUMMED T
		DESCRIPTION	HORIZONTAL BRACANG PIPE	8-0" LONG, P2.5 STD (2.875'Ø X 0.203") PIPE	MOUNT PIPE CROSSOVER PLATES	V-BRACING KIT	BRACING PIPE CROSSOVER PLATES	TIE BACK ASSEMBLY				DESCRIPTION						THE DESIGN MODIFICATIONS BUT NOT LISTED IN THIS SHEET ARE ASSUMMED TO BE PROVIDED BY THE CONTRACTOR.
		PART NUMBER	VZWSKIRFK P40,842X186	VZWSMART P40-278X096	VZWSMART-MSK4	VZWSMART-SFK3-SL	VZWSMART-MSK2	VZWSMART-SFK1				PART NUMBER						R THE DESIGN MODIFICATION
		MANUFACTURER						VZWSMART				MANUFACTURER						NOTE: ALL MATERIALS REQUIRED FOR
		QUANTITY		3)	ø	12	e				QUANTITY						NOTE: ALL MA

	BER	8	8	4	102
S	PHONE NUMBER	(844) 884-6723	(972) 236-9843	(866) 428-6937	(706) 335-7045
VZWSMART KITS - APPROVED VENDORS	EMAIL	WIRELESSSALES@PERFECT-VISION.COM	PAULA BOSWELL@VALMONT.COM	AKWELCH@SABREINDUSTRIES.COM	KENT@METROSITELLC.COM
VZWSMART	CONTACT	WIRELESS SALES	PAULA BOSWELL	ANGIE WELCH	KENT RAMEY
	VENDOR	PERFECT VISION	SITEPRO	SABRE INDUSTRIES INC. ANGIE WELCH	METROSITE FABRICATORS, LLC

COMMISCOPE SALVADOR ANGLIANO SALVADOR ANGLIANOGCOMISCOPE.COM (BIT) 3047492	THE MANUFACTURERS LISTED ARE THE APPROVED VENDORS FOR THE VZM MOUNT KITS. EACH MANUFACTURER WILL BE AWARE OF WHICH KITS HAVIE BEEN THROUGH HIT YOUNG MOTHER VAN APPROVAL YOU ARE NOT HAN THE WAIT THE WAITH MOTHER WORTH MOTHER WAITH MOTHER WORTH WORTH KNOWN MOTHER FOR WILL BE REVENDED AS A PART OF THE ESSENCH PAIN COMPLETED BY THE SMART TOOL. VENDOR IT WILL BE REQUIRED THAT THE VZW KITS SPECIFED ARE UTILZED IN THE MODIFICATION.	ALL PARTS ARE GALVANIZED UNLESS NOTED OTHERWISE	REV DATE DE
COMMSCOPE	THE MANUFACTURER'S LIST WHICH KITS HAVE BEEN THR MATERIAL UTILIZED ON THE MC VENDOR. I		

SALVADOR ANGUIANO KENT RAMEY

WILL JEOP AND COMPANY WAS NO THE DEATH CALCULATED WE TERRY EXPLICATION OF ETREY EXPLICATIONS AND WAS NO THOUGHT OF THE ENAMINE THE CONTRICTION OF THE THE DAY OF THE THE MOST THE THE CONTRICTION OF THE THE THE THREE THE THE THREE THREE

WORK SHALL BE IN ACCORDANCE WITH LOCAL CODGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE LOCAL BUILDING OFFICIALS FOR ANY INSPECTIONS THAT MAY BE REQUIRED.

THE CONTRACTOR AUST BE EXPENDENCED IN THE PERFORMANCE OF WORK SMILLAR TO THAT DESCRIBED ON THESE BOSMINGS. BY ACCEPTANCE OF THIS REDCENT, THE CONTRACTOR SA INTENSITION THAT HE DOES HAVE SUFFICIENT EXPENDENCE AND ABLITY. THAT HE IS KNOWNEDGREALE OF THE WORK TO BE PERFORMED. AND THAT HE IS PROPERLY LICENSED TOOD THIS WORK IN THE LARGADICTION IN WHICH THE WORK IS TO BE PERFORMED.

THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONNECTION OF CONSTRUCTION. ALL STRUCTURES ARE ESCREEDED TO BE STRUCTURE, AND ESCREEDED TO BE STRUCTURE. AND ESCREEDED TO BE STRUCTURE AND ESCREEDED TO BE STRUCTURE. AND ESCREEDED TO BE STRUCTURE AND ESCREEDED TO BE STRUCTURE AND ESCREEDED TO BE STRUCTURE. AND ITS COMPONENT PARTS, AND THE ADDICAGO OF THE STRUCTURE AND ITS COMPONENT PARTS, AND THE ADDICAGO OF THE STRUCTURE AND ITS COMPONENT PARTS AND THE ADDICAGO OF THE STRUCTURE AND ITS COMPONENT PARTS AND THE ADDICAGO OF THE STRUCTURE AND ITS COMPONENT PARTS AND THE ADDICAGO OF THE STRUCTURE AND THE ADDICAGO OF THE STRUCTURE AND THE ADDICAGO OF THE STRUCTURE AND THE ADDICTION OF THE STRUCTURE AND THE STRUCTURE AND THE ADDICTION OF THE STRUCTURE AND THE STRUCTURE AND THE ADDICTION OF THE STRUCTURE AND THE STRUC

ANY EXISTING ATTACHMENTS AND OR PROJECTIONS ON THE STRUCTURE THAT MAY INTERFERE WITH THE INSTALLATION OF THE MODIFICATION SYSTEM WILL HAN'E TO BE REMOVED AND RELOCATED, REPLACED, OR RE-NISTALED AS REQUIRED AFTER THE MODIFICATION IS SUCCESSFLUX YOURLETED. THE CONTRACTOR SHALL IDENTIFY AND COORDINATE THESE THEMSE THEM SHOWS THAT THE OWNERS. THE SHALL AND SOUR THEMSE THEMSE

THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR INITIATING, MAINTAINING, AND SUPERVISING ALL SAFETY PROGRAMS AND PRECALITIONS IN CONNECTION WITH THE WORK.

ALL HOLES, ETHER PLICKED OR DRILLED, IN THE EXISTING STEEL MEMBERS SHALL BE 11'S INCH LARGER THAN THE BOLT DAMETER, UNKLISS OF MOTOD DIFFERWARES SHAN, DOE TO SETWANTED SOOTED HOLES. OF STORT DAMETER, AND TO REQUIRED TO THE STANKED SHALL BE 11'MEST HE BOLT DAMETER, AND THE MINAULA BOLT SHALL BE 11'MEST HE BOLT DAMETER, WHO THE MINAULA BOLT SHALL BE THANKED AT A SET STANKED SHALL BE THANKED AT A SET STANKED SHALL BE THANKED AT A SET STANKED SHALL BE THANKED AT A SET STANKED.

7. ALL EKSTING PAINTED OR GALVANZED SURFACES DAMAGED DURING CONSTRUCTION SHALL EE WIRE BRUSHED CLEAN, REPAIRED PO COLD GANVAIRANG BAUSH APLED PAINT (ZINGA OR EQUAL), AND REPAIRITED TO MATCH THE EXISTING FINISH CORPORATION TO ASTIMATOW.

6. IF ANY EXISTING ASTM A325 BOLTS ARE REMOVED, THEY MUST BE REPLACED WITH NEW A325 BOLTS OR GREATER.

ALL NEW STEEL SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123, ASTM 183/A153M, OR ASTM A653 G90.

NEW STEEL (UNLESS NOTED OTHERWINE) SHALL CON-ORW TO THE REQUIREMENTS OF THE ASTIN STANDARD SPECIFICATION KR STRANDARD SECONDAY. STEEL AND STEEL STEEL AND SECONDAY ASTIN AROUGH STEEL AND POWIT MATERAL)
HES RECTIVALAGE, ASTIN AROUGH SHE (ASK STEELD POWIT MATERAL)
PIPE, ASTIN ASSIN ASSIN SHEELD POWIT MATERAL)
PIPE, ASTIN ASSIN SHEELD SHEEL ASTIN AROUGH SHEELD SHEELD

4. ALL BOLTS, U-BOLTS, AND THREADED RODS SHALL BE PROVIDED WITH LOCK-WASHERS, OR LOCK-NUTS, OR PAL-NUTS TORQUED TO THE SNUG-TIGHT CONDITION AS DEFINED BY AISC.

CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT DAMAGE TO EXISTING STRUCTURES, EQUIPMENT WOULD THE SAY DAMAGE TO EXISTING STRUCTURES, EXUIPMENT, AND UTLITIES AS A REGULT OF THE CONTRACTORS WARK OR PROM ADMAGE TO EXISTING STRUCTURES, SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE TO THE SATISFACTION OF THE OMITEN TO THE CONTRACTORS EXPENSE TO THE SATISFACTION OF THE OWNER.

WORK SHALL BE PERFORMED DURING CALM DRY DAYS (WINDS LESS THAN 30-MPH) IN ACCORDANCE WITH OPERATIONAL WIND CONDITIONS PER TIA-322.

THE STRUCTURAL ANALYSIS ASSUMES THAT ALL STRUCTURAL COMPONENTS ARE IN BRAND MEIN CONDITION, TREE PROM MILITA AD DEFECTS AND IN O'DEFICIAN AND INDONE, 9. THE MOUNTING SYSTEM SHALL NOT BE USED AS A TIE OFF POINT.

IF MATERALS, QUANTITIES, STRENGTIAS, OR SZES INDICATED BY THE DRAWINGS OR SPECIFICATIONS ARE NOT IN SCREENENT WITH THESE WORSTS. THE BELTER QUALITY ANDOR GREATER QUANTITY, STRENGTH, OR SZE INDICATED, SPECIED, OR WITGED SKALL BE PROVIDED.

12. OBSERVATION VISITS TO THE SITE BY OWNER AND/OR THE EOR SHALL NOT INCLUDE INSPECTIONS OF THE PROTECTIVE MEASURES OR THE CONSTRUCTION PROCEDURES.

13. ANY SUPPORT SERVICES PERFORMED BY THE ERR DURING CONSTRUCTION, MER SOLLE, FOR HER PURPOSE OF ASSISTION IN QUALITY CONTINUED AND INTERPRESSION OF CONTROLLINGS AND IN ASSISTION OF GUARANTE CONTROLLORS PERFORMANCE AND SALL IN OT BE CONSTRUED AS SUPERVISION OF CONSTRUCTION OF CONSTRUCTION OF CONSTRUCTION.

4, THE CLIMBING FACILITIES SAFETY CLIMB, AND ALL PARTS THEREOF SHALL NOT BE IMPEDED, MODIFIED, OR ALTERED WITHOUT THE APPROVAL OF THE EOR.

15 AFTER THE CONTRACTOR HAS SUCCESSFULLY COMMETED. THE INSTALLATION OF THE MODIFICATION SYSTEMAND THE WORK HAS BEEN ACCEPTED IN THE OWNER, THE OWNER WILL BE RESPONSIBLE FOR THE LONG TEMMFERPETUAL INSPECTION AND MATERIANCE OF THE STRUCTURE AND MODIFICATION SYSTEM.

B. DO NOT SCALE DRAWINGS.

THE MOUNTING SYSTEM SHALL NOT BE USED FOR RIGGING PURPOSES. IF RIGGING TO THE MOUNT IS REQUIRED, ALL ORDONO PANS SHALL LOBERT TO ARSINSSE MAY & (LATEST EDITION), INCLIDING THE REQUIRED INVOLVEMENT OF A QUALIFIED REMORE FOR OLASS IV CONSITIACTION TO CERTIFY THE SUPPORTING STRUCTURE(S) IN ACCORDANCE WITH THE MISITIA 422 (LATEST EDITION).

ALL MANUFACTURER'S HARDWARE ASSEMBLY INSTRUCTIONS SHALL BE FOLLOWED, UND. CONFLICTING NOTES SHALL BE BROUGHT TO THE ATTENTION OF THE EOR.

IS IF REMOVALO FLOSTING MODIFICATIONS IS REQUIRED FOR THE MODIFICATION SCOPE. THE GC SHALL CLEAN AND COLD GALVANZE ANY EXSTINGE BATHY DIG IT HOLD EAST WITHOUT SUCH CHARGE THE MODIFICATION OF STREAMS OF STORED THE SAFE WITH THE BACK THE GLOSTING TO PROCEEDING WITH THE MODIFICATION.

MOUNT MODIFICATION DRAWINGS

РROSPECT, CONNECTICUT 468186-VZW / NAUGATUCK CT RELO

ALL DIMENSIONS REPRESENTED IN THE ABOVE TABLES ARE AND MINIMAIN PEQUIREMENTS CONTRACTOR SHALL VERTEY SYISTING CONDITIONS IN PIELD AND NOTEY ENGNEER IS DISTANCES ARE LESS THAN THOSE PROVIDED

SHORT SLOT HOLES SHALL ONLY BE USED WHEN DEPICTED IN THE DRAWING.

22721-0344,002.819

GENERAL NOTES SGN-1

....9-15-21

GAGE		1
	-0E	
	__\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	NBLE COPE EOR APPROVAL
SPACING	0	LIMIT OF ALLOWABLE COPE WITHOUT PRIOR EOR APPRO
BOB		ı

STRUCTURAL STREL MATERIALS, FABRICATION, DETALING, AND WORKAWASHP SHALL CONFORM TO THE LATEST ADDOMYOR OF HER CHOUNG BETERBOLE'S SHAALDES ADDOMYOR OF HER CHOUNG STREETINGS. TS. STREET BLUDINGS STREETINGS. TS. STREET BLUDINGS STREETINGS. STREETINGS TREETINGS HER BLUDINGS AND STREETINGS. STREETINGS AND STREETINGS. STREETINGS. OF STREETINGS AND STREETINGS. OF STREETINGS AND STREETINGS. OF STREETINGS AND STREETINGS AND STREETINGS AND STREETINGS AND STREETINGS AND STREETINGS. STREETINGS AND STREETINGS AND WORK DISCOSETINGS. STREETINGS AND WORK DISCOSETINGS.

ALLOWABLE COPING

VERIZON WIRELESS

SOE Broad 51, Ste 600- Columbus, OH 43216
SOE Road 51, Ste 600- Columbus, OH 43216
Phone 614.221.6679
www.pauljford.com

LE (IN)	MIN EDGE SPACING DISTANCE	11/2	11/8	11/4 21/4	11/2 2.5/6	13/4 3
BOLT SCHEDULE (IN)	SHORT SLOT	916×11/16	11/16 x 7/8	13/16 x 1	15/16 x 1 1/8	1 1/16 x 1 5/16
BOL	STANDARD HOLE	9/16	11/16	13/16	15/16	11/16
	BOLT DIAMETER	1/2	8/9	3/4	8//	1

Ê						
GAGES	GAGE	2 1/2	2	13/4	1.3/8	11/8
WORKABLE GAGES (IN)	FEG	4	3.12	8	21/2	2

13/4	1.3/8	11/8	NOTE
e	21/2	2	

11. ALL REQUIRED CUTS SHALL BE CUT WITHIN THE DIMENSIONS SHOWN ON THE DRAWINGS. NO CUTS SHALL EXTEND BENCHOTHE OUTLINE OF THE DIMENSIONS SHOWN ON THE DRAWINGS ALL OUT EDGES SHALL BE GROUND SHOOTH AND BE SHIRBED CONTRACTOR TO AVOID 90 DEGREE CORNERS. IT MAY BE NECESSARY TO DRILL STARTER HOLES AS REQUIRED TO MAKE THE CUT.

ALLONIS ARE BELATAG TYPE CONNECTIONS, UNO, FIND BOLT LENGTH IS GIVEN IN THE BILL OF MATERIALS, THE CONNECTION MAY NALLUE THEKAUS IN THE SHEAR PLANE, AND THE GO, BY RESPONSIBLE FOR SZING THE LENGTH OF THE BOLT, IT IS NOT PERMITTED FOR THE BOLT END TO BE BELOW THE FACE OF THE NUT AFTER TIGHTENING IS SOMPATION.

10 NO FIELD WELDING SHALL BE DONE TO THE EXISTING STRUCTURE WITHOUT THE PRIOR APPROVAL OF THE OWNER AND SUPERVISION BY THE INSPECTION/TESTING AGENCY.

9. SHOP SHALL ASSEMBLE AND VERIFY FIT AND GAPS BEFORE BREAKDOWN FOR GALVANIZING. 8. ALL PARTS ARE TO MARKED WITH ITEM NUMBERS USING 3/4" HIGH STEEL STENCILS.

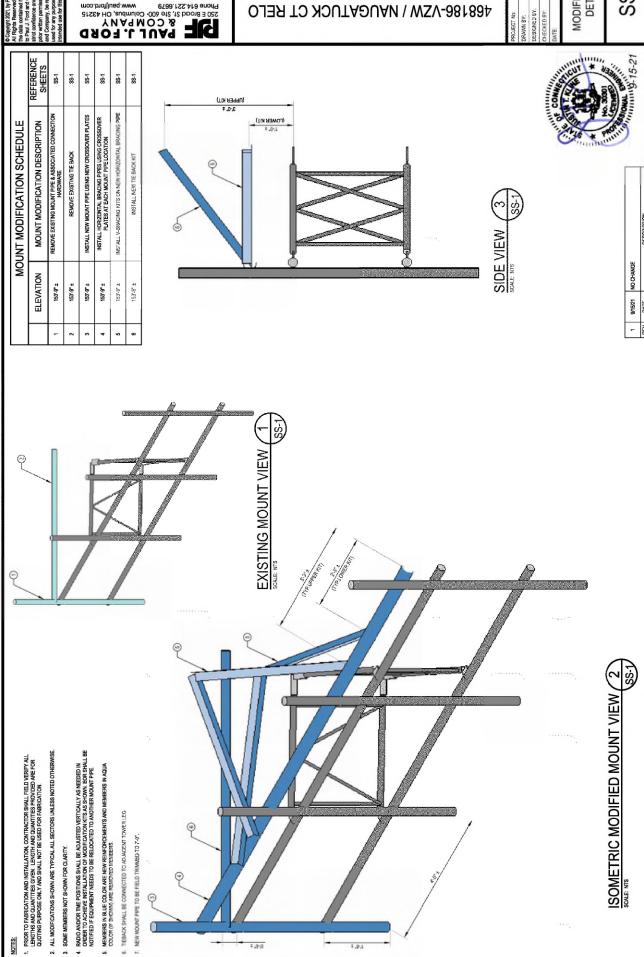
- BOLT HEAD

THE DIMENSIONS PROVIDED ARE MINIMUM REQUIREMENTS. ACTUAL DIMENSIONS OF PROPOSED MEMBERS WITHIN THESE DRAWINGS MAY VARY FROM THE AISC MINIMUM REQUIREMENTS. 2

MATCH EXISTING GAGES WHEN APPLICABLE, UNLESS MINIMAM EDGE DISTANDES ARE COMPROMISED.

TYP BOLT ASSEMBLY

NO CHANGE 9/15/21



SS-2

NO CHANGE









MOUNT MODIFICATION DRAWINGS РROSPECT, CONNECTICUT

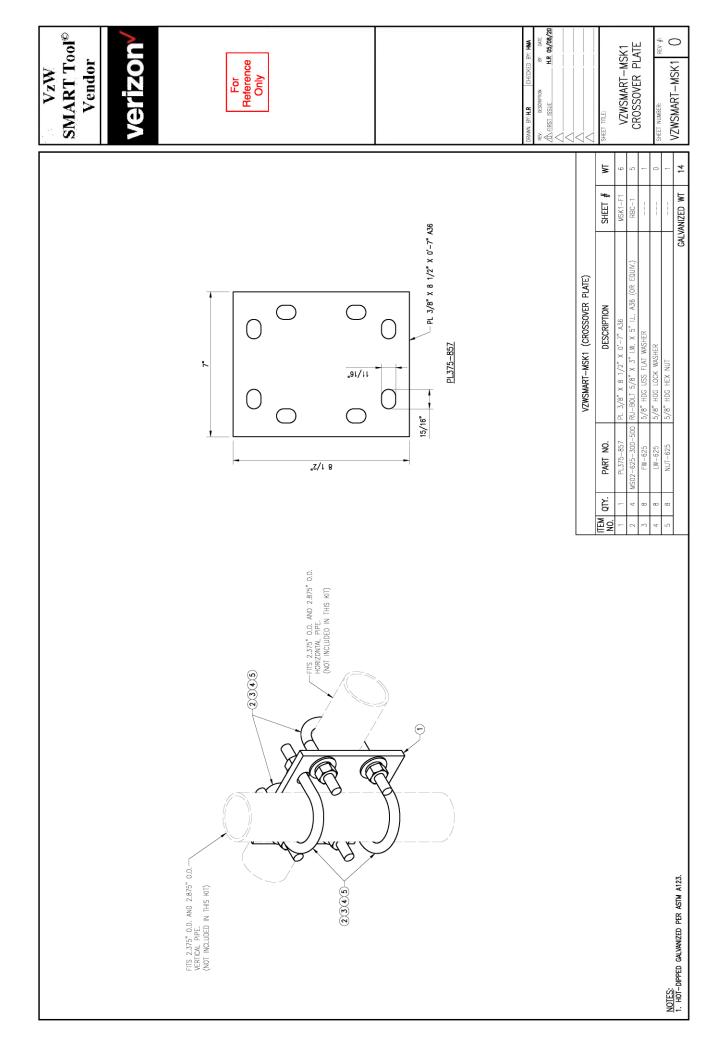
468186-VZW / NAUGATUCK CT RELO

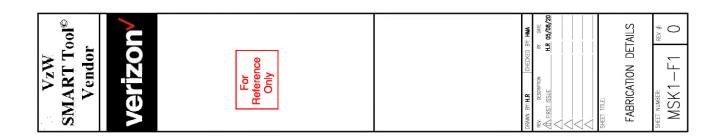


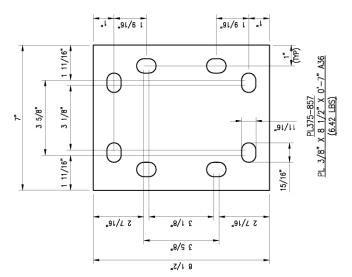
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250 E 80004 51, 51e 600-Columbus, OH 43215
Phone 614.221.6679 www.paulflord.com









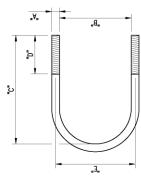
																					_	
	"MGL"	0.26	0:30	0.30	0.27	0.32	0.34	0.35	0.34	0.34	0.40	0.36	0.38	0.37	0.45	0.42	0.50	0.53	0.46	0.50	0.60	
	.3.,	13/16"	13/8"	15/8"	11/2"	17/8"	17/8"	17/8"	2 1/8"	23/8"	2-3/8"	2.1/2"	27/8"	27/8"	27/8"	33/8"	33/8"	33/8"	37/8"	37/8"	43/8"	
	"O"	.8/	11/4"	11/4"	11/4"	11/4"	15/8"	13/4"	11/8"	11/4"	1-1/4"	11/4"	11/4"	11/4"	13/4"	11/4"	2"	3	11/4"	2"	21/2"	
	"၁"	15/8"	2 1/4"	2 1/4"	113/16"	2.1/2	23/4"	3"	23/4"	25/8"	3"	3"	31/16"	31/8"	3-5/8"	35/8"	41/4"	.8/59	41/8"	43/4"	53/4"	
HART	"8"	13/16"	1"	11/4"	11/8"	11/2"	11/2"	11/2"	13/4"	٦,,	2	21/8"	21/5"	21/5"	21/2"	3,,	3"	3	31/2"	31/2"	4"	
STANDARD RU-BOLT CHART	"Y"	.,8/E	3/8"	3/8"	3/8"	3/8"	.8/8	.,8/E	.,8/E	8/E	3/8"	3/8"	3/8"	.8/E	3/8"	8/E	3/8"	3/8"	3/8"	3/8"	3/8"	
STANDARI	(EQUIVALENT PART NO.)	MS02-375-8125-1625	MS02-375-100-225	MS02-375-125-225	MS02-375-1125-18125	MS02-375-150-250	MS02-375-150-275	WS05-375-150-300	MS02-375-175-275	WS05-375-200-2625	MS02-375-200-125	MS02-375-2125-300	NS02-375-250-30625	MS02-375-250-3125	WS02-375-250-3625	WS05-375-300-3625	MS02-375-300-425	MS02-375-300-6625	MS02-375-350-4125	MS02-375-350-475	MS02-375-400-575	
	DESCRIPTION	3/8" RU-BOLT	3/8" RU-BOLT	3/8" RU-BOLT	3/8" RU-BOLT	3/8" RU-BOLT	3/8" RU-BOLT	3/8" RU-BOLT	3/8" RU-BOLT	3/8" RU-BOLT	3/8" RU-BOLT	3/8" RU-BOLT	3/8" RU-BOLT	3/8" RU-BOLT	3/8" RU-BOLT	3/8" RU-BOLT	3/8" RU-BOLT	3/8" RU-BOLT	3/8" RU-BOLT	3/8" RU-BOLT	3/8" RU-BOLT	

	MS02-500-75-350	1/2"	3/4"	31/2"	21/2"	11/4"	0.60
	MS02-500-1563-350	1/2"	19/16"	31/2"	5,,	2 1/16"	0.62
	MS02-500-200-300	1/2	7	3,	11/4"	2 1/2"	0.55
	MS02-500-200-375	1/2	7	33/4"	13/4"	2.1/2"	0.67
	MS02-500-20625-500	1/2.	21/16"	2	<u>"</u>	29/16"	0.80
	MS02-500-225-450	1/2"	21/4"	41/2"	21/2"	23/4"	0.76
	MS02-500-2438-3625	1/5"	27/16"	35/8"	13/4"	2 15/16"	0.67
	MS02-500-2438-5375	1/2"	27/16"	23/8"	3,,	2 15/16"	0.86
	MS02-500-250-400	1/2"	21/2"	4"	21/2"	3"	0.70
	MS02-500-250-450	1/2"	21/2"	41/2"	21/2"	3".	0.76
	MS02-500-29375-575	1/2	2 15/16"	53/4"	3,	37/16"	0.92
	MS02-500-300-4125	1/2"	3,	41/8"	7,,	3.1/2"	0.74
	MS02-500-300-450	1/2"	.E	41/2"	15/8"	3.1/2"	0.73
	MS02-500-300-500	1/2,	.e	5.	21/2"	3.1/2"	0.84
	MS02-500-350-500	1/5"	31/2"	2,	11/2"	4"	0.78
	MS02-500-350-850	1/5"	31/2"	81/2"	3,	4"	1.09
	MS02-500-3625-550	1/5"	35/8"	51/2"	.e	41/8"	1.10
	MS02-500-3625-600	1/5"	35/8"	" 9	21/2"	4 1/8"	0.97
	MS02-500-3563-450	1/2"	39/16"	41/2"	5".	41/16"	0.80
	MS02-500-3563-650	1/2"	39/16"	61/2"	3"	41/16"	1.02
	MS02-500-400-550-B	1/2"	4"	5 1/2"	11/2"	4 1/2"	0.84
	MS02-500-400-550	1/2"	4"	51/2"	2,,	41/2"	0.92
	MS02-500-4063-700	1/2	41/16"	7"	3,,	49/16"	1.09
	MS02-500-4125-600	1/2"	41/8"	<u>_9</u>	21/2"	45/8"	0.98
1/2" RU-BOLT	MS02-500-450-600	1/5"	41/2"	.9	11/2"	.5"	0.89
1/2" RU-BOLT	MS02-500-4625-700	1/5"	4 5/8"	7"	21/2"	5 1/8"	1.11
	MS02-500-4563-750	1/2"	49/16"	7 1/2"	3,,	5 1/16"	1.16
1/2" RU-BOLT	MS02-500-5625-725	1/2"	25/8"	7 1/4"	7	61/8"	1.04
	MS02-500-4563-575	1/2"	49/16"	53/4"	7,,	5 1/16"	0.97
1/2" RU-BOLT	MS02-500-5563-700	1/2"	59/16"	7"	2,,	61/16"	1.14
1/2" RU-BOLT	MS02-500-575-750	1/2"	53/4"	71/2"	21/2"	61/4"	1.22
1/2" RU-BOLT	MS02-500-6625-800	1/2"	.8/59	‰	"E	7 1/8"	1.28
1/2" RU-BOLT	MS02-500-675-850	1/5"	63/4"	81/2"	21/2"	7 1/4"	117
1/2" RU-BOLT	MS02-500-675-8375	1/2"	63/4"	83/8"	2,,	7 1/4"	1.24
1/2" RU-BOLT	MS02-500-8750-1025	1/2"	83/4"	101/4"	3,	9 1/4"	1.60
1/2" RU-BOLT	MS02-500-875-10375	1/2	83/4"	103/8"	5".	91/4"	1.34
	MS02-500-10875-1300	1/2"	10 7/8"	1-1	<u>.</u>	113/8"	1.98

NOTES:

IF EQUIVALENT U-BOLTS ARE USED, THE FOLLOWING SPECIFICATIONS ARE REQUIRED:

- 1. THE MATERIAL SHALL BE HOT ROLLED STEEL WITH A MINIMUM YIELD STRENGTH OF 36 KSI.
- 2. ALL U-BOLTS SHALL BE HOT DIP GALVANIZED PER ASTM 4153-78.
- 3. TOLERANCE: FOR "C" AND "D" +/- 1/16", "B" AND "E" + 1/16", "A" +/- 1/32".



	STANDA	STANDARD RU-BOLT CHART	HART				
DESCRIPTION	(EQUIVALENT PART NO.)	"A"	8	"၁"	"D"	.3	"WGT"
5/8" RU-BOLT	MS02-625-200-375	2/8"	2"	33/4"	2"	25/8"	1.15
5/8" RU-BOLT	MS02-625-2063-500	2/8	21/16"	2,,	3,,	211/16"	1.32
5/8" RU-BOLT	MS02-625-2438-5375	.8/5	27/16"	.8/85	3"	31/16"	1.40
5/8" RU-BOLT	MS02-625-250-400	2/8	21/2"	.,5	2.1/2"	31/8"	1.17
5/8" RU-BOLT	MS02-625-2625-450	2/8#	25/8"	41/2"	2"	31/4"	1.20
5/8" RU-BOLT	MS02-625-2563-550	2/8	29/16"	51/2"	3,	33/16"	1.43
5/8" RU-BOLT	MS02-625-2938-5875	.8/5	2 15/16"	.8/25	3"	39/16"	1.52
5/8" RU-BOLT	MS02-625-300-400	2/8	3,	4"	2"	35/8"	1.20
5/8" RU-BOLT	MS02-625-300-500	2/8	3,,	5	3,,	35/8"	1.37
5/8" RU-BOLT	MS02-625-3063-600	2/8	31/16"	9	3"	311/16"	1.54
5/8" RU-BOLT	MS02-625-3625-600	2/8#	35/8"	.9	3,	41/4"	1.45
5/8" RU-BOLT	MS02-625-3563-650	2/8	39/16"	61/2"	3,	43/16"	1.65
5/8" RU-BOLT	MS02-625-4063-700	2/8	41/16"	7"	3"	411/16"	1.71
5/8" RU-BOLT	MS02-625-4125-600	2/8	41/8"	.9	3"	43/4"	1.60
5/8" RU-BOLT	MS02-625-4625-700	.8/5	45/8"	7"	3"	51/4"	1.60
5/8" RU-BOLT	MS02-625-4563-750	.8/5	49/16"	1,1/2	3"	53/16"	1.87
5/8" RU-BOLT	MS02-625-4813-775	2/8	4 13/16"	73/4"	3"	5 7/16"	1.93
5/8" RU-BOLT	MS02-625-500-700	2/8"	2,,	7"	3"	55/8"	1.96
5/8" RU-BOLT	MS02-625-5063-800	2/8"	51/16"	80	3"	5 11/16"	1.99
5/8" RU-BOLT	MS02-625-5625-85625	.8/5	.8/55	89/16"	3,,	61/4"	2.11
5/8" RU-BOLT	MS02-625-575-800	2/8"	53/4"	8	3"	63/8"	2.02
5/8" RU-BOLT	MS02-625-6688-9625	2/8"	611/16"	.8/56	3"	75/16"	2.35
5/8" RU-BOLT	MS02-625-6750-900	2/8"	63/4"	.,6	3"	73/8"	2.24
5/8" RU-BOLT	MS02-625-8688-11625	2/8	811/16"	115/8"	3"	93/16"	2.80
5/8" RU-BOLT	MS02-625-875-1100	2/8"	83/4"	11,	3"	93/8"	2.70
5/8" RU-BOLT	MS02-625-10688-1375	2/8	1013/16	13 3/4"	3"	117/16"	3.27
5/8" RU-BOLT	MS02-625-12875-1575	2/8"	12 7/8"	15 3/4"	3"	13 1/2"	3.72
5/8" RILROIT	MSD2-625-14125-1700	18/5	141/8"	17"	3,0	"A/C A1	7 30

BY DATE H.R 05/08/20

O FIRST ISSUE

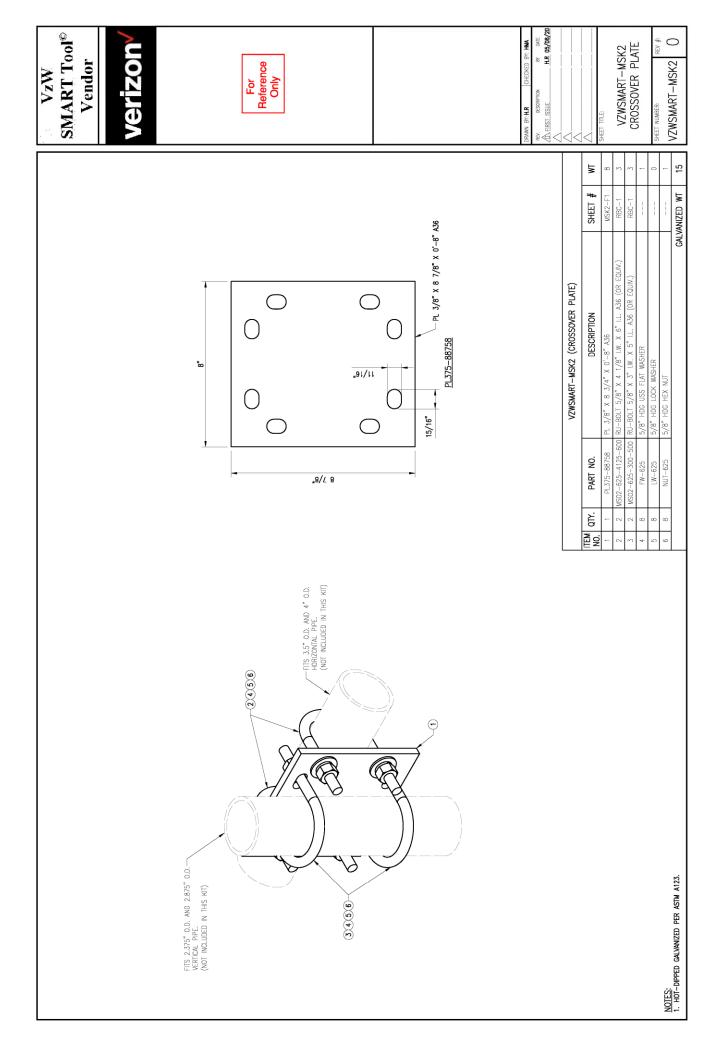
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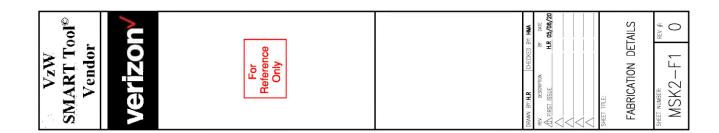
RBC-1

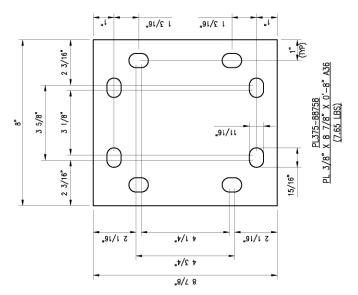
RU-BOLT CHART

VzW SMART Tool[©] Vendor

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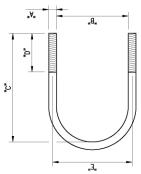


																					_	
	"MGL"	0.26	0:30	0.30	0.27	0.32	0.34	0.35	0.34	0.34	0.40	0.36	0.38	0.37	0.45	0.42	0.50	0.53	0.46	0.50	0.60	
	.3.,	13/16"	13/8"	15/8"	11/2"	17/8"	17/8"	17/8"	2 1/8"	23/8"	2-3/8"	2.1/2"	27/8"	27/8"	27/8"	33/8"	33/8"	33/8"	37/8"	37/8"	43/8"	
	"O"	.8/	11/4"	11/4"	11/4"	11/4"	15/8"	13/4"	11/8"	11/4"	1-1/4"	11/4"	11/4"	11/4"	13/4"	11/4"	2"	3	11/4"	2"	21/2"	
	"၁"	15/8"	2 1/4"	2 1/4"	113/16"	2.1/2	23/4"	3"	23/4"	25/8"	3"	3"	31/16"	31/8"	3-5/8"	35/8"	41/4"	.8/59	41/8"	43/4"	53/4"	
HART	"8"	13/16"	1"	11/4"	11/8"	11/2"	11/2"	11/2"	13/4"	٦,,	2	21/8"	21/5"	21/5"	21/2"	3,,	3"	3	31/2"	31/2"	4"	
STANDARD RU-BOLT CHART	"Y"	.,8/E	3/8"	3/8"	3/8"	3/8"	.8/8	.,8/E	.,8/E	8/E	3/8"	3/8"	3/8"	.8/E	3/8"	8/E	3/8"	3/8"	3/8"	3/8"	3/8"	
STANDARI	(EQUIVALENT PART NO.)	MS02-375-8125-1625	MS02-375-100-225	MS02-375-125-225	MS02-375-1125-18125	MS02-375-150-250	MS02-375-150-275	WS05-375-150-300	MS02-375-175-275	WS05-375-200-2625	MS02-375-200-125	MS02-375-2125-300	NS02-375-250-30625	MS02-375-250-3125	WS02-375-250-3625	WS05-375-300-3625	MS02-375-300-425	MS02-375-300-6625	MS02-375-350-4125	MS02-375-350-475	MS02-375-400-575	
	DESCRIPTION	3/8" RU-BOLT	3/8" RU-BOLT	3/8" RU-BOLT	3/8" RU-BOLT	3/8" RU-BOLT	3/8" RU-BOLT	3/8" RU-BOLT	3/8" RU-BOLT	3/8" RU-BOLT	3/8" RU-BOLT	3/8" RU-BOLT	3/8" RU-BOLT	3/8" RU-BOLT	3/8" RU-BOLT	3/8" RU-BOLT	3/8" RU-BOLT	3/8" RU-BOLT	3/8" RU-BOLT	3/8" RU-BOLT	3/8" RU-BOLT	

0.60	.6" 0.62	2" 0.55	79.0	.6" 0.80	4" 0.76	16" 0.67	16" 0.86	0.70	0.76	.6" 0.92	2" 0.74	2" 0.73	2" 0.84	0.78	1.09	8" 1.10	8" 0.97	.6" 0.80	.6" 1.02	2" 0.84	2" 0.92	.6" 1.09	8. 0.98	0.89	3" 1.11	.6" 1.16	1.04	.6" 0.97	.6" 1.14	t" 1.22	8" 1.28	4" 1.17	4" 1.24	1.60	134
21/2" 11/4"	2" 21/16"	11/4" 21/2"	13/4" 21/2"	3" 29/16"	21/2" 23/4"	13/4" 215/16"	3" 215/16"	21/2" 3"	21/2" 3"	3" 37/16"	2" 31/2"	15/8" 31/2"	21/2" 31/2"	11/2" 4"	3" 4"	3" 41/8"	21/2" 41/8"	2" 41/16"	3" 41/16"	11/2" 41/2"	2" 41/2"	3" 49/16"	21/2" 45/8"	Н	21/2" 51/8"	3" 51/16"	2" 61/8"	2" 51/16"	2" 61/16"	21/2" 61/4"	3" 71/8"	21/2" 71/4"	2" 71/4"	3" 91/4"	2" 91/4"
31/2" 2:	3 1/2"	3" 13	33/4" 13	2	41/2" 2:	35/8" 13	53/8"	4" 2:	41/2" 2:	53/4"	41/8"	41/2" 15	5" 2:	5" 13	8 1/2"	5 1/2"	6" 2:	41/2"	6 1/2"	51/2" 13	5 1/2"	7"	6" 2:	6" 13	7" 2:	7 1/2"	7 1/4"	53/4"	7	71/2" 2	" 8	81/2" 2:	83/8"	10 1/4"	10 3/8"
3/4"	19/16"	2"	2	21/16"	21/4"	27/16"	27/16"	21/2"	21/2"	2 15/16"	3"	3"	3,,	31/2"	31/2"	35/8"	35/8"	39/16"	39/16"	4"	4"	41/16"	41/8"	41/2"	45/8"	49/16"	25/8"	49/16"	59/16"	53/4"	65/8"	63/4"	63/4"	83/4"	83/4"
1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/5"	1/2"	1/5,,	1/5"	1/2"	1/2"	1/2"	1/5"	1/5"	1/5"	1/2"	1/5"	1/2"	1/5"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2	1/2	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/5"
MS02-500-75-350	MS02-500-1563-350	MS02-500-200-300	MS02-500-200-375	MS02-500-20625-500	MS02-500-225-450	MS02-500-2438-3625	MS02-500-2438-5375	MS02-500-250-400	MS02-500-250-450	MS02-500-29375-575	MS02-500-300-4125	MS02-500-300-450	MS02-500-300-500	MS02-500-350-500	MS02-500-350-850	MS02-500-3625-550	MS02-500-3625-600	MS02-500-3563-450	MS02-500-3563-650	MS02-500-400-550-B	MS02-500-400-550	MS02-500-4063-700	MS02-500-4125-600	MS02-500-450-600	MS02-500-4625-700	MS02-500-4563-750	MS02-500-5625-725	MS02-500-4563-575	MS02-500-5563-700	MS02-500-575-750	MS02-500-6625-800	MS02-500-675-850	MS02-500-675-8375	MS02-500-8750-1025	MS02-500-875-10375
1/2" RU-BOLT	1/2" RU-BOLT	1/2" RU-BOLT	1/2" RU-BOLT	1/2" RU-BOLT	1/2" RU-BOLT	1/2" RU-BOLT	1/2" RU-BOLT	1/2" RU-BOLT	1/2" RU-BOLT	1/2" RU-BOLT	1/2" RU-BOLT	1/2" RU-BOLT	1/2" RU-BOLT	1/2" RU-BOLT	1/2" RU-BOLT	1/2" RU-BOLT	1/2" RU-BOLT	1/2" RU-BOLT	1/2" RU-BOLT	1/2" RU-BOLT	1/2" RU-BOLT	1/2" RU-BOLT	1/2" RU-BOLT	1/2" RU-BOLT	1/2" RU-BOLT	1/2" RU-BOLT	1/2" RU-BOLT	1/2" RU-BOLT	1/2" RU-BOLT	1/2" RU-BOLT	1/2" RU-BOLT	1/2" RU-BOLT	1/2" RU-BOLT	1/2" RU-BOLT	1/2" RU-BOLT

IF EQUIVALENT U-BOLTS ARE USED, THE FOLLOWING SPECIFICATIONS ARE REQUIRED:

- 1. THE MATERIAL SHALL BE HOT ROLLED STEEL WITH A MINIMUM YIELD STRENGTH OF 36 KSI.
- 2. ALL U-BOLTS SHALL BE HOT DIP GALVANIZED PER ASTM 4153-78.
- 3. TOLERANCE: FOR "C" AND "D" +/- 1/16", "B" AND "E" + 1/16", "A" +/- 1/32".



	STANDARI	STANDARD RU-BOLT CHART	HART				
DESCRIPTION	(EQUIVALENT PART NO.)	"Y"	.8.	"כ"	"D"	"E"	"WG
5/8" RU-BOLT	MS02-625-200-375	.8/5	٦,,	33/4"	2"	2 5/8"	1.15
5/8" RU-BOLT	MS02-625-2063-500	.8/9	1/16"	2,,	3"	211/16"	1.32
5/8" RU-BOLT	MS02-625-2438-5375	.8/S	191/22	23/8"	3"	31/16"	1.40
5/8" RU-BOLT	MS02-625-250-400	.8/5	21/2"	4"	21/2"	31/8"	1.17
5/8" RU-BOLT	MS02-625-2625-450	18/5	25/8"	4 1/2"	2"	31/4"	1.20
5/8" RU-BOLT	MS02-625-2563-550	.8/5	29/16"	5 1/2"	3"	33/16"	1.43
5/8" RU-BOLT	NS02-625-2938-5875	.8/5	2 15/16"	27/8"	3"	39/16"	1.52
5/8" RU-BOLT	MS02-625-300-400	.8/5	3,,	4"	2"	35/8"	1.20
5/8" RU-BOLT	MS02-625-300-500	.8/9	3,,	2,,	3"	35/8"	1.37
5/8" RU-BOLT	MS02-625-3063-600	2/8"	31/16"	6"	3"	311/16"	1.54
5/8" RU-BOLT	WS05-625-3625-600	.8/S	.8/SE	.9	3"	41/4"	1.45
5/8" RU-BOLT	059-53563-05N	.8/5	39/16"	61/2"	3"	43/16"	1.65
5/8" RU-BOLT	MS02-625-4063-700	2/8"	41/16"	7"	3"	411/16"	1.7
5/8" RU-BOLT	MS02-625-4125-600	.8/5	41/8"	.9	3"	43/4"	1.60
5/8" RU-BOLT	MS02-625-4625-700	.8/5	45/8"	7"	3"	51/4"	1.60
5/8" RU-BOLT	MS02-625-4563-750	.8/5	49/16"	7 1/2"	3"	53/16"	1.87
5/8" RU-BOLT	MS02-625-4813-775	2/8	4 13/16"	73/4"	3"	5 7/16"	1.93
5/8" RU-BOLT	MS02-625-500-700	2/8"	2,,	7"	3"	5 5/8"	1.96
5/8" RU-BOLT	MS02-625-5063-800	2/8"	51/16"	8"	3"	511/16"	1.99
5/8" RU-BOLT	MS02-625-5625-85625	5/8"	55/8"	89/16"	3"	61/4"	2.11
5/8" RU-BOLT	MS02-625-575-800	2/8"	53/4"	-8	3"	63/8"	2.02
5/8" RU-BOLT	MS02-625-6688-9625	2/8	611/16"	95/8"	3"	75/16"	2.35
5/8" RU-BOLT	WS05-625-6750-900	.8/9	63/4"	9"	3"	73/8"	2.24
5/8" RU-BOLT	MS02-625-8688-11625	.8/9	811/16"	115/8"	3"	93/16"	2.80
5/8" RU-BOLT	MS02-625-875-1100	5/8"	83/4"	11"	3"	93/8"	2.70
5/8" RU-BOLT	MS02-625-10688-1375	2/8"	1013/16	13 3/4"	3"	117/16"	3.27
5/8" RU-BOLT	MS02-625-12875-1575	2/8"	12 7/8"	15 3/4"	3"	13 1/2"	3.72
5/8" RU-BOLT	MS02-625-14125-1700	.8/5	14 1/8"	17"	3"	143/4"	4.01

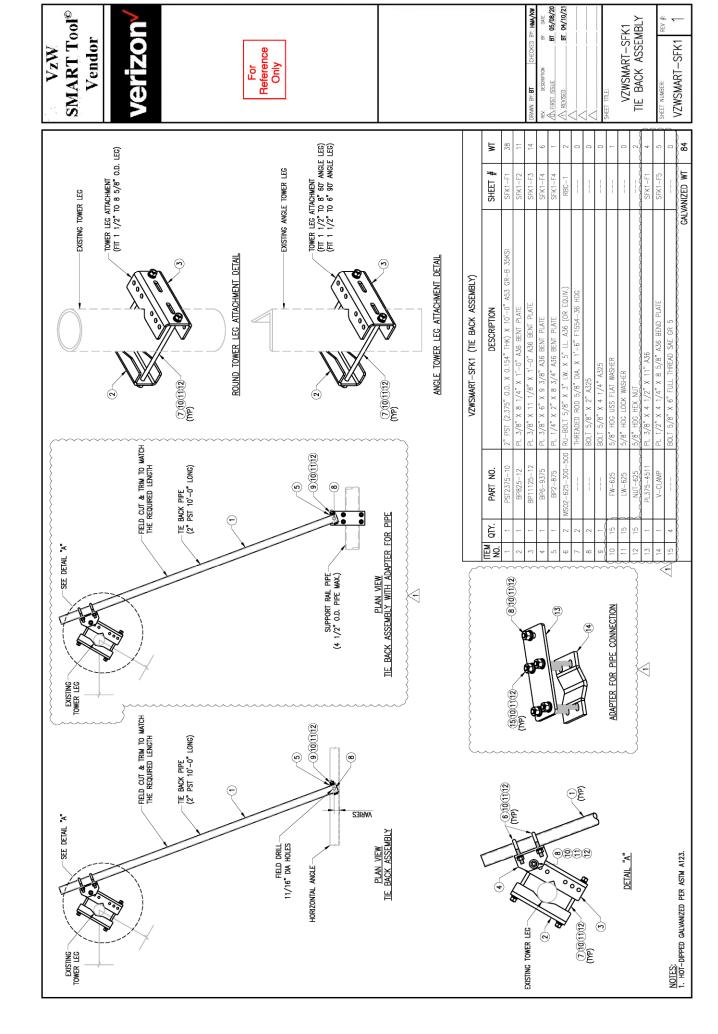
$V_{\mathbf{Z}}W$ SMART $T_{00}I^{\odot}$ Vendor

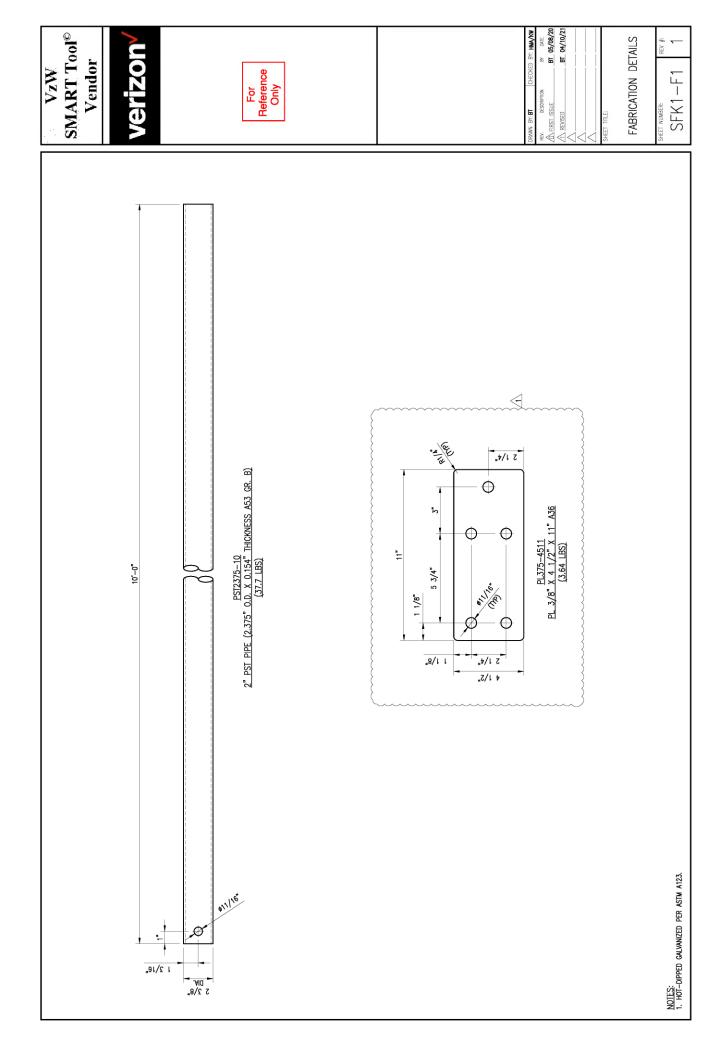
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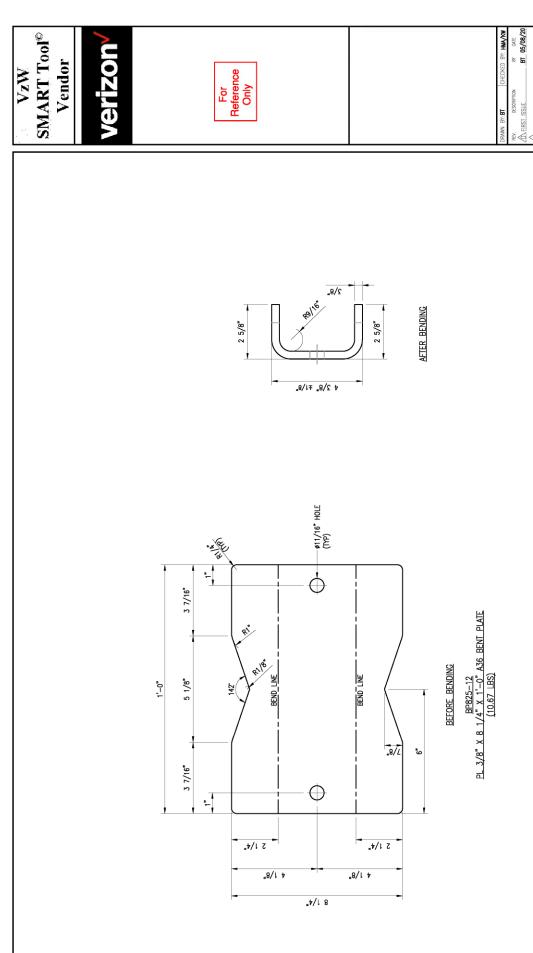
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	RAWN BY: H.R	EV. DESCRIPTION	ON FIRST ISSUE	

DRAWN BY: H.R. CHECKED BY: HMA	REV. DESCRIPTION BY DATE OF FIRST ISSUE H.R 05/08/20		SHEET TITLE:	RU-BOLT CHART	SHEET NIMRED.
DRAWN	REV.		SHEET		THE SHEET

RU-BOLT CHART	RBC-1





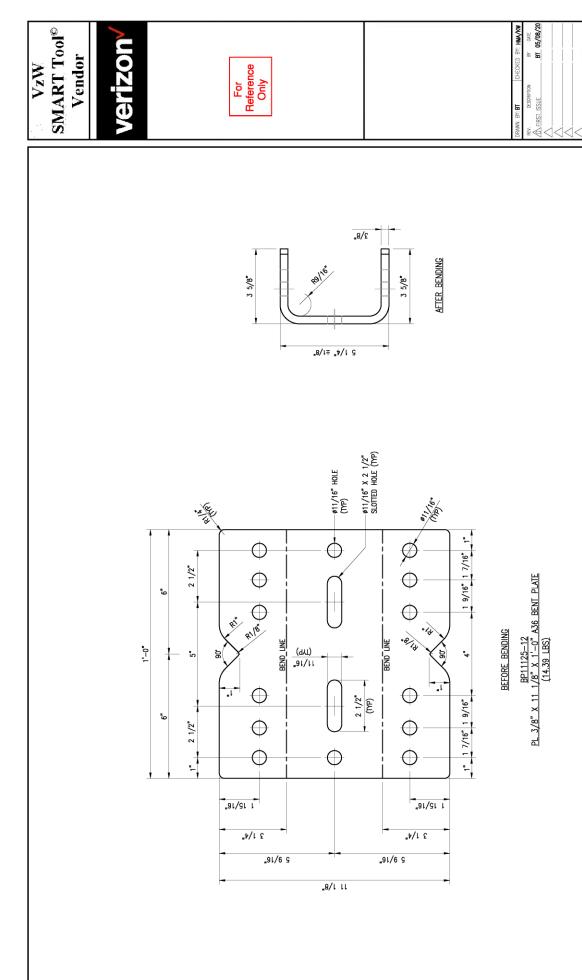


NOTES: 1. HOT—DIPPED GALVANIZED PER ASTM A123.

FABRICATION DETAILS

÷ O

SFK1-F2

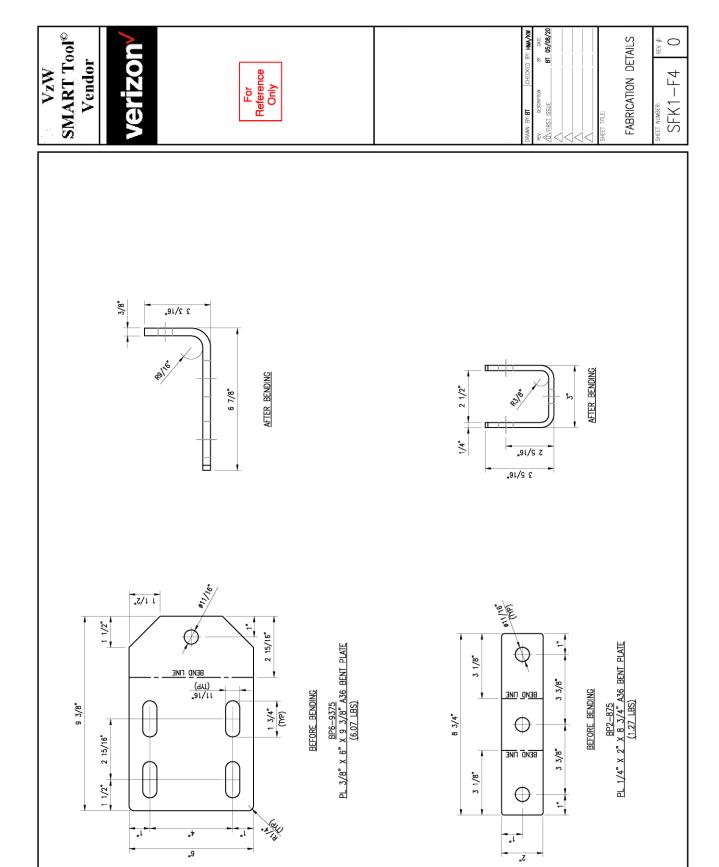


NOTES: 1. HOT—DIPPED GALVANIZED PER ASTM A123.

FABRICATION DETAILS

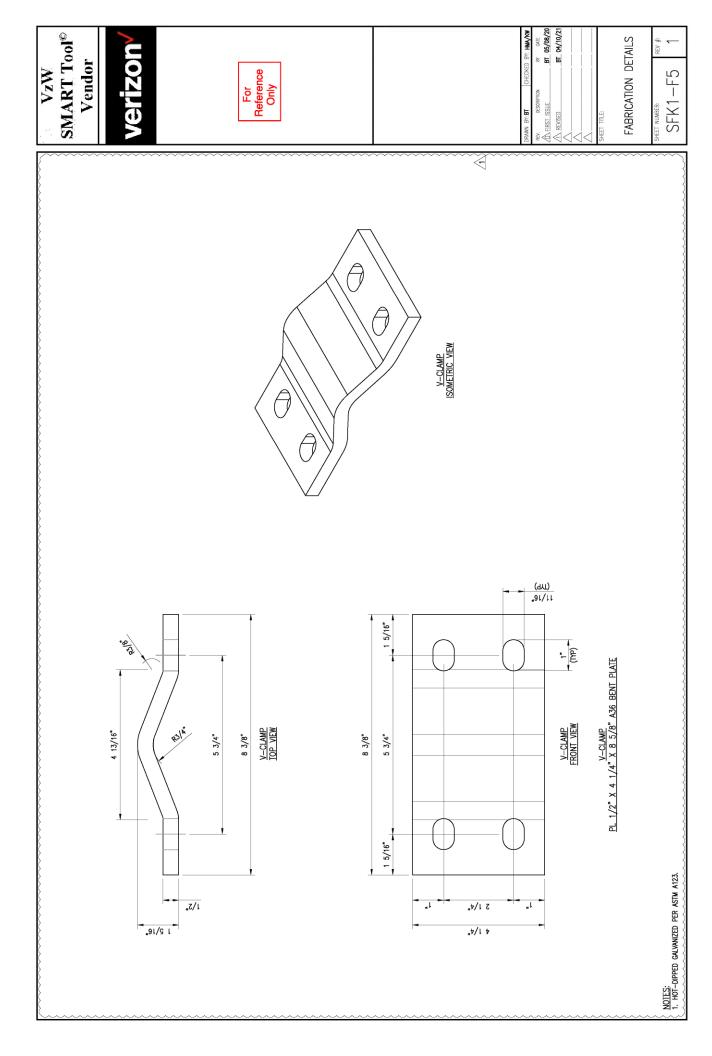
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SFK1-F3



"9

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



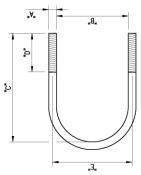
	HANNE	STANDARD RO-BOLL CHARL					
DESCRIPTION	(EQUIVALENT PART NO.)	"Y"	"B"	"Ͻ"	"O"	.3.,	"LDM.
3/8" RU-BOLT	MS02-375-8125-1625	3/8	13/16"	15/8"	8/	13/16"	0.26
3/8" RU-BOLT	MS02-375-100-225	3/8"	1	2 1/4"	11/4"	13/8"	0:30
3/8" RU-BOLT	MS02-375-125-225	3/8"	11/4"	2 1/4"	11/4"	15/8"	0:30
3/8" RU-BOLT	MS02-375-1125-18125	3/8	11/8"	113/16"	11/4"	11/2"	0.27
3/8" RU-BOLT	MS02-375-150-250	3/8"	11/2"	2 1/2"	11/4"	17/8"	0.32
3/8" RU-BOLT	MS02-375-150-275	3/8"	11/2"	23/4"	15/8"	17/8"	0.34
3/8" RU-BOLT	MS02-375-150-300	3/8"	11/2"	3,	13/4"	17/8"	0.35
3/8" RU-BOLT	MS02-375-175-275	3/8"	13/4"	23/4"	11/8"	2 1/8"	0.34
3/8" RU-BOLT	MS02-375-200-2625	3/8	7,,	25/8"	11/4"	23/8"	0.34
3/8" RU-BOLT	MS02-375-200-125	3/8"	7	3"	1-1/4"	2-3/8"	0.40
3/8" RU-BOLT	MS02-375-2125-300	3/8"	21/8"	3"	11/4"	2 1/2"	0.36
3/8" RU-BOLT	MS02-375-250-30625	3/8"	21/2"	31/16"	11/4"	27/8"	0.38
3/8" RU-BOLT	MS02-375-250-3125	3/8"	21/2"	3 1/8"	11/4"	27/8"	0.37
3/8" RU-BOLT	MS02-375-250-3625	3/8"	21/2"	3-5/8"	13/4"	27/8"	0.45
3/8" RU-BOLT	MS02-375-300-3625	3/8"	3,,	35/8"	11/4"	33/8"	0.42
3/8" RU-BOLT	MS02-375-300-425	3/8"	3"	41/4"	7,,	33/8"	0.50
3/8" RU-BOLT	MS02-375-300-6625	3/8"	3	.8/59	3	33/8"	0.53
3/8" RU-BOLT	MS02-375-350-4125	3/8"	31/2"	41/8"	11/4"	37/8"	0.46
3/8" RU-BOLT	MS02-375-350-475	3/8"	31/2"	43/4"	7,,	37/8"	0.50
3/8" RU-BOLT	MS02-375-400-575	3/8	"+	53/4"	21/2"	43/8"	09'0

0.60	0.62	0.55	0.67	0.80	0.76	0.67	0.86	0.70	0.76	0.92	0.74	0.73	0.84	0.78	1.09	1.10	0.97	0.80	1.02	0.84	0.92	1.09	0.98	0.89	1.11	1.16	1.04	0.97	1.14	1.22	1.28	1.17	1.24	1.60	1.34	1.38
11/4"	2 1/16"	2 1/2"	2 1/2"	29/16"	23/4"	2 15/16"	2 15/16"	3"	3,	37/16"	31/2"	3 1/2"	3 1/2"	4"	4"	41/8"	41/8"	41/16"	41/16"	41/2"	41/2"	49/16"	45/8"	2,,	5 1/8"	51/16"	6 1/8"	51/16"	61/16"	61/4"	7 1/8"	7 1/4"	7 1/4"	9 1/4"	91/4"	113/8"
21/2"	2,,	11/4"	13/4"	3"	2.1/2"	13/4"	3"	2 1/2"	21/2"	3"	2"	15/8"	21/2"	11/2"	3"	3"	2 1/2"	2"	3"	11/2"	2"	3"	21/2"	11/2"	21/2"	3,	2	2"	2"	21/2"	3"	2 1/2"	2"	3"	2"	
31/2"	31/2"	3"	33/4"	5	4 1/2"	35/8"	23/8"	4"	41/2"	53/4"	41/8"	41/2"	2,	2,	8 1/2"	5 1/2"	.9	4 1/2"	61/2"	5 1/2"	5 1/2"	7"	.9	.9	7"	7.1/2"	7 1/4"	53/4"	7"	71/2"	8	8 1/2"	83/8	10 1/4"	103/8"	1-1
3/4"	19/16"		2"	21/16"	21/4"	27/16"	27/16"	21/2"	21/2"	2 15/16"	3"	3"	3,,	31/2"	31/2"	.8/SE	.8/SE	39/16"	39/16"	4"	4"	4 1/16"	41/8"	41/2"	45/8"	49/16"	55/8"	49/16"	59/16"	53/4"	65/8"	£3/4 _#	63/4"	83/4"	83/4"	10 7/8"
1/2"	1/5"	1/5"	1/2"	1/2"	1/2"	1/2"	1/5"	1/5"	1/2"	1/2"	1/2"	1/2"	1/5"	1/5"	1/2"	1/5"	1/5"	1/2"	1/5"	1/2"	1/2"	1/2"	1/5"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/5"	1/2"	1/2"	1/2	1/5"
MS02-500-75-350	MS02-500-1563-350	MS02-500-200-300	MS02-500-200-375	MS02-500-20625-500	MS02-500-225-450	MS02-500-2438-3625	MS02-500-2438-5375	MS02-500-250-400	MS02-500-250-450	MS02-500-29375-575	MS02-500-300-4125	MS02-500-300-450	MS02-500-300-500	MS02-500-350-500	MS02-500-350-850	MS02-500-3625-550	MS02-500-3625-600	MS02-500-3563-450	MS02-500-3563-650	MS02-500-400-550-B	MS02-500-400-550	MS02-500-4063-700	MS02-500-4125-600	MS02-500-450-600	MS02-500-4625-700	MS02-500-4563-750	MS02-500-5625-725	MS02-500-4563-575	MS02-500-5563-700	MS02-500-575-750	MS02-500-6625-800	MS02-500-675-850	MS02-500-675-8375	MS02-500-8750-1025	MS02-500-875-10375	MS02-500-10875-1300
1/2" RU-BOLT	1/2" RU-BOLT	1/2" RU-BOLT	1/2" RU-BOLT	1/2" RU-BOLT	1/2" RU-BOLT	1/2" RU-BOLT	1/2" RU-BOLT	1/2" RU-BOLT	1/2" RU-BOLT	1/2" RU-BOLT	1/2" RU-BOLT	1/2" RU-BOLT	1/2" RU-BOLT	1/2" RU-BOLT	1/2" RU-BOLT	1/2" RU-BOLT	1/2" RU-BOLT	1/2" RU-BOLT	1/2" RU-BOLT	1/2" RU-BOLT	1/2" RU-BOLT	1/2" RU-BOLT	1/2" RU-BOLT	1/2" RU-BOLT	1/2" RU-BOLT	1/2" RU-BOLT	1/2" RU-BOLT	1/2" RU-BOLT	1/2" RU-BOLT	1/2" RU-BOLT	1/2" RU-BOLT	1/2" RU-BOLT	1/2" RU-BOLT	1/2" RU-BOLT	1/2" RU-BOLT	1/2" RU-BOLT

IF EQUIVALENT U-BOLTS ARE USED, THE FOLLOWING SPECIFICATIONS ARE REQUIRED:

- 1. THE MATERIAL SHALL BE HOT ROLLED STEEL WITH A MINIMUM YIELD STRENGTH OF 36 KSI.
- 2. ALL U-BOLTS SHALL BE HOT DIP GALVANIZED PER ASTM 4153-78.
- 3. TOLERANCE: FOR "C" AND "D" +/- 1/16", "B" AND "E" + 1/16", "A" +/- 1/32".

For Reference Only



SMART Tool®

VzW

Vendor

	STANDAR	STANDARD RU-BOLT CHART	HART				
DESCRIPTION	(EQUIVALENT PART NO.)	"A"	.8.	"၁"	"D	"E"	"WGT"
5/8" RU-BOLT	MS02-625-200-375	2/8"	2,,	33/4"	2"	25/8"	1.15
5/8" RU-BOLT	MS02-625-2063-500	2/8	21/16"	5	3	211/16"	1.32
5/8" RU-BOLT	WS02-625-2438-5375	2/8	27/16"	.8/ES	3"	31/16"	1.40
5/8" RU-BOLT	MS02-625-250-400	2/8	21/2"	.,†	2.1/2"	31/8"	1.17
5/8" RU-BOLT	MS02-625-2625-450	2/8#	25/8"	41/2"	2"	31/4"	1.20
5/8" RU-BOLT	MS02-625-2563-550	2/8,	29/16"	1/5"	3"	33/16"	1.43
5/8" RU-BOLT	MS02-625-2938-5875	.8/5	2 15/16"	.8/45	3"	39/16"	1.52
5/8" RU-BOLT	MS02-625-300-400	2/8"	3,	*	2"	35/8"	1.20
5/8" RU-BOLT	MS02-625-300-500	2/8,	3,	5.	3,	35/8"	1.37
5/8" RU-BOLT	MS02-625-3063-600	2/8	31/16"	.9	3"	311/16"	1.54
5/8" RU-BOLT	MS02-625-3625-600	2/8#	35/8"	,9	3,	41/4"	1.45
5/8" RU-BOLT	MS02-625-3563-650	2/8	39/16"	6.1/2"	3,	43/16"	1.65
5/8" RU-BOLT	MS02-625-4063-700	2/8,	41/16"	ı,L	3"	411/16"	1.71
5/8" RU-BOLT	MS02-625-4125-600	2/8	41/8"	,9	3"	43/4"	1.60
5/8" RU-BOLT	MS02-625-4625-700	2/8,	45/8"	ı,L	3"	51/4"	1.60
5/8" RU-BOLT	MS02-625-4563-750	2/8	49/16"	.7/1.4	3,,	53/16"	1.87
5/8" RU-BOLT	MS02-625-4813-775	2/8	4 13/16"	73/4"	3,,	57/16"	1.93
5/8" RU-BOLT	MS02-625-500-700	.8/5	5,	"L	3"	.8/55	1.96
5/8" RU-BOLT	MS02-625-5063-800	2/8	51/16"	8	3"	511/16"	1.99
5/8" RU-BOLT	NS02-625-5625-85625	2/8	.8/55	.91/68	3,,	61/4"	2.11
5/8" RU-BOLT	MS02-625-575-800	2/8	53/4"	8	3"	63/8"	2.02
5/8" RU-BOLT	MS02-625-6688-9625	2/8"	611/16"	.8/56	3"	75/16"	2.35
5/8" RU-BOLT	MS02-625-6750-900	2/8	63/4"	.,6	3"	73/8"	2.24
5/8" RU-BOLT	MS02-625-8688-11625	2/8"	811/16"	115/8"	3"	93/16"	2.80
5/8" RU-BOLT	MS02-625-875-1100	2/8	83/4"	.11	3"	93/8"	2.70
5/8" RU-BOLT	MS02-625-10688-1375	2/8	1013/16	13 3/4"	3,,	117/16"	3.27
5/8" RU-BOLT	MS02-625-12875-1575	2/8	12 7/8"	15 3/4"	3"	131/2"	3.72
5/8" RILROIT	MS02-625-14125-1700	"8/S	141/8"	12,	#~	143/4"	٩

BY DATE BT 05/08/20

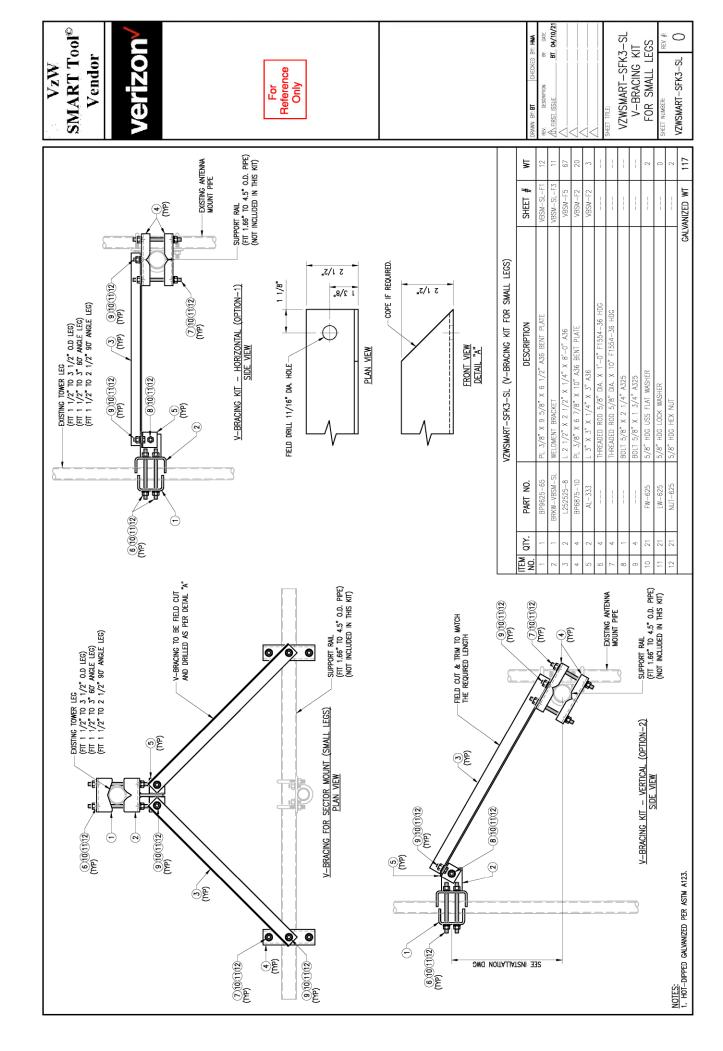
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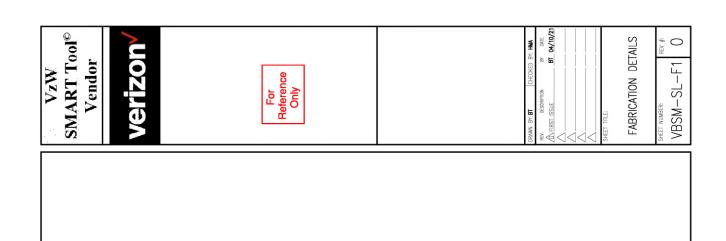
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RBC-1

RU-BOLT CHART

D BY: HIMA/KW

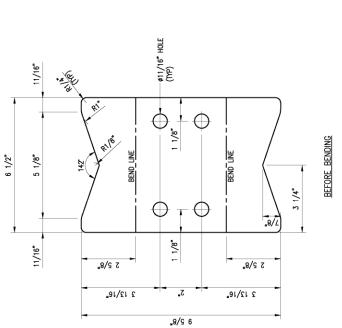




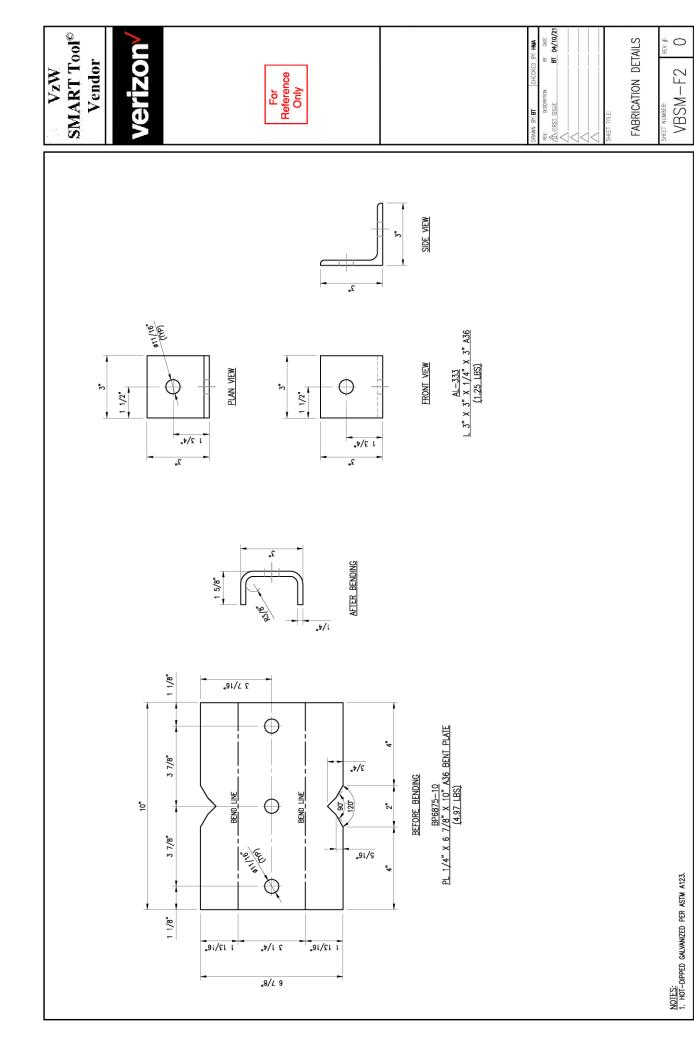
3/8"

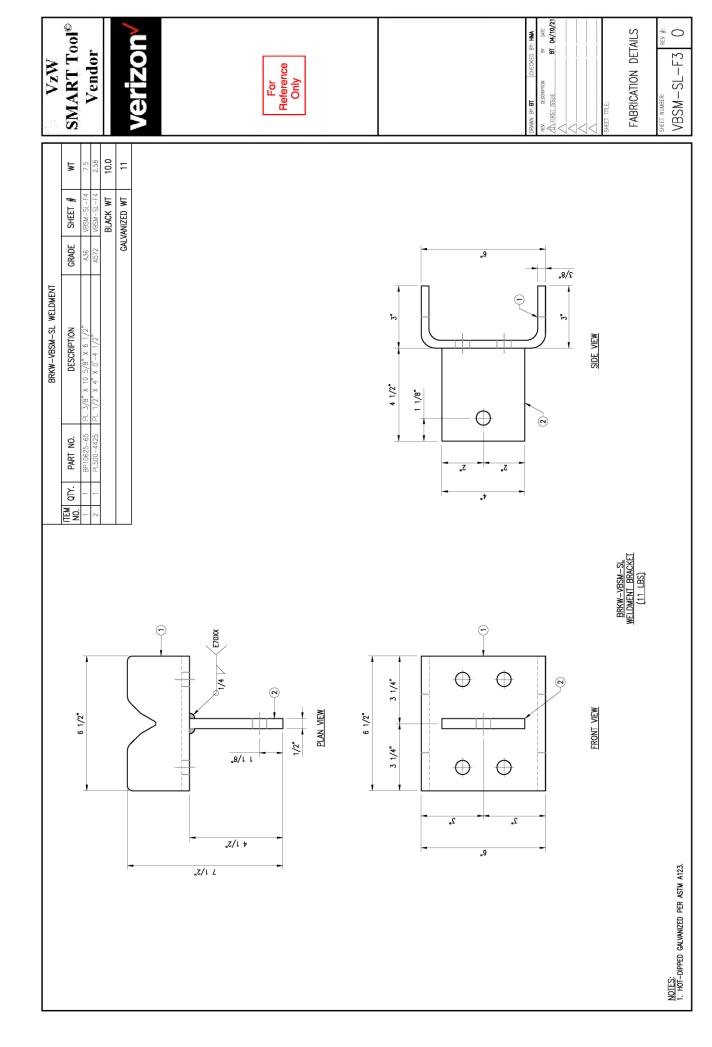
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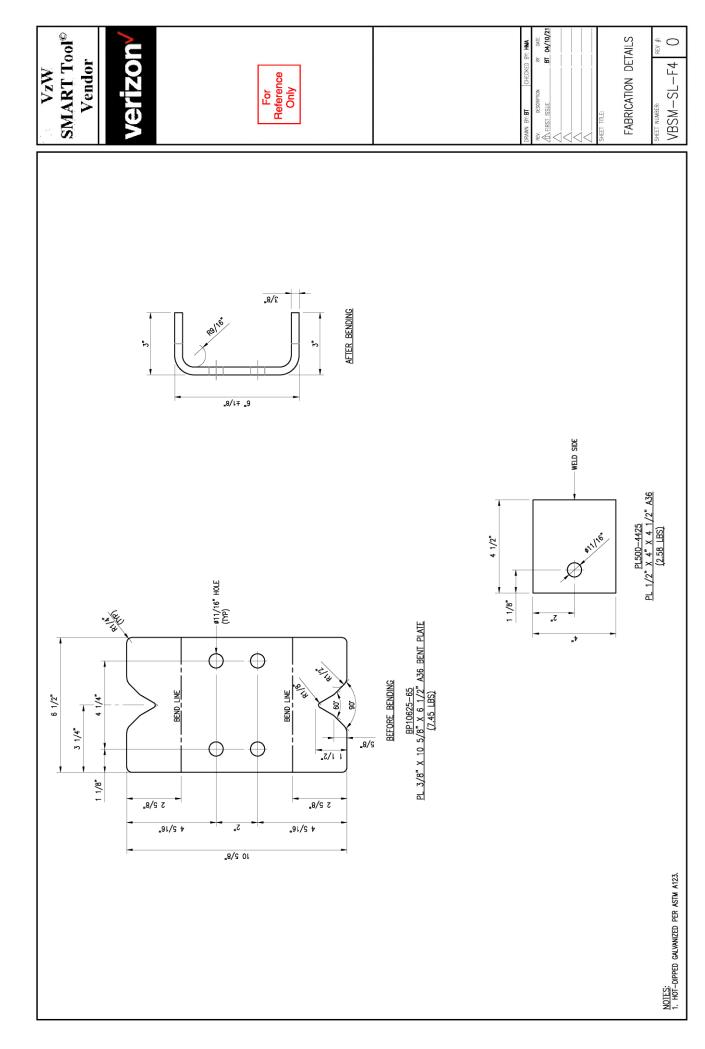
AFTER BENDING

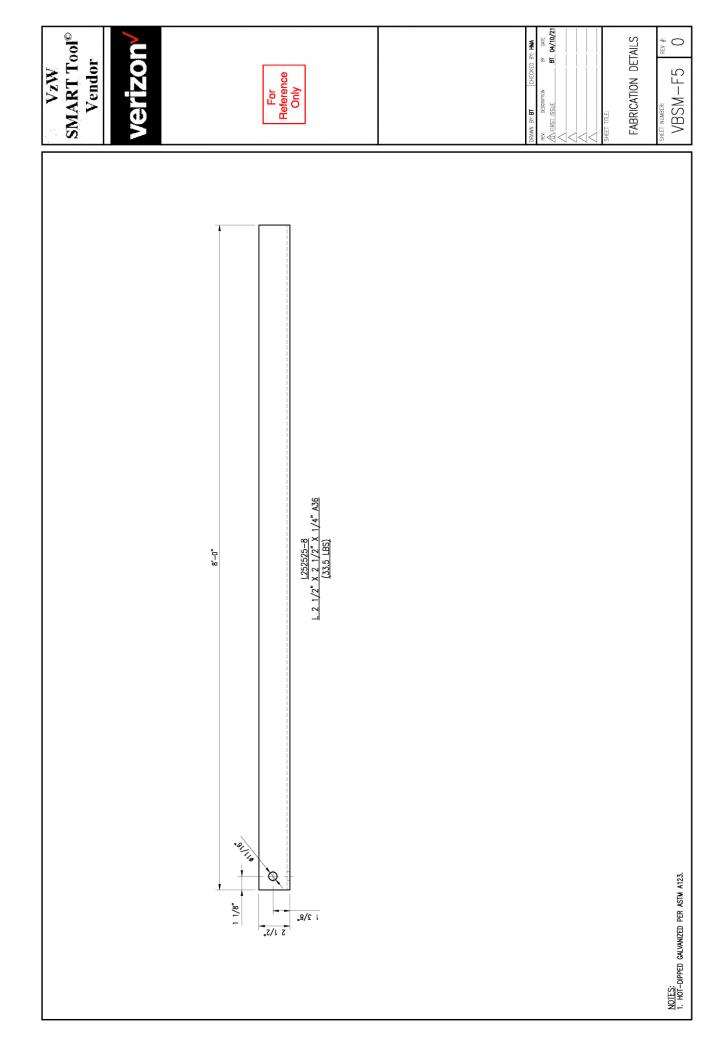


BP9625–65 PL 3/8" X 9 5/8" X 6 1/2" A36 BENT PLATE (6.75 LBS)











6-port sector antenna, 2x 698–896 and 4x 1695–2360 MHz, 65° HPBW, 2x RET. Both high bands share the same electrical tilt.

- Interleaved dipole technology providing for attractive, low wind load mechanical package
- Internal SBT on low and high band allow remote RET control from the radio over the RF jumper cable
- Separate RS-485 RET input/output for low and high band
- One RET for low band and one RET for both high bands to ensure same tilt level for 4x Rx or 4x MIMO

General Specifications

Antenna TypeSectorBandMultibandColorLight gray

Grounding TypeRF connector body grounded to reflector and mounting bracket

Performance Note Outdoor usage | Wind loading figures are validated by wind tunnel

measurements described in white paper WP-112534-EN

Radome MaterialFiberglass, UV resistantRadiator MaterialLow loss circuit board

Reflector Material Aluminum

RF Connector Interface 4.3-10 Female

RF Connector LocationBottom

RF Connector Quantity, high band 4
RF Connector Quantity, low band 2
RF Connector Quantity, total 6

Remote Electrical Tilt (RET) Information

RET Interface 8-pin DIN Female | 8-pin DIN Male

RET Interface, quantity 2 female | 2 male

Input Voltage 10-30 Vdc

Internal Bias Tee Port 1 | Port 3

Internal RET High band (1) | Low band (1)

Power Consumption, idle state, maximum 2 W
Power Consumption, normal conditions, maximum 13 W

Page 1 of 4



Protocol 3GPP/AISG 2.0 (Single RET)

Dimensions

Width 301 mm | 11.85 in

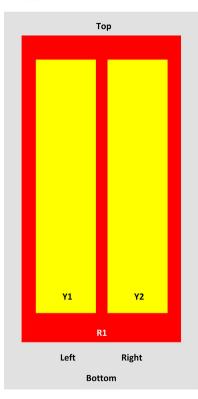
Depth 180 mm | 7.087 in

Length 1828 mm | 71.969 in

Net Weight, without mounting kit 19.8 kg | 43.651 lb

Array Layout

<u>NHH</u>



Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	698-896	1-2	1	ANxxxxxxxxxxxxxxx
Y1	1695-2360	3-4	2	ANxxxxxxxxxxxxxxxxxxxx
Y2	1605-2360	5.6	1	

View from the front of the antenna (Sizes of colored boxes are not true depictions of array sizes)

Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 1695 – 2360 MHz | 698 – 896 MHz

COMMSCOPE®

Polarization ±45°

Total Input Power, maximum $900~\mathrm{W} \ @ \ 50~\mathrm{^{\circ}C}$

Electrical Specifications

Frequency Band, MHz	698-806	806-896	1695-1880	1850-1990	1920-2200	2300-2360
Gain, dBi	14.9	15	17.7	17.9	18.4	18.7
Beamwidth, Horizontal, degrees	65	60	71	69	64	57
Beamwidth, Vertical, degrees	12.4	11.2	5.7	5.2	4.9	4.6
Beam Tilt, degrees	0-14	0-14	0-7	0-7	0-7	0-7
USLS (First Lobe), dB	13	14	18	18	19	18
Front-to-Back Ratio at 180°, dB	30	29	31	30	29	31
Isolation, Cross Polarization, dB	25	25	25	25	25	25
Isolation, Inter-band, dB	30	30	30	30	30	30
VSWR Return loss, dB	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153	-153	-153
Input Power per Port at 50°C, maximum, watts	300	300	300	300	300	300

Electrical Specifications, BASTA

zieenieen speemeen	Electrical Specification by Bristin						
Frequency Band, MHz	698-806	806-896	1695-1880	1850-1990	1920-2200	2300-2360	
Gain by all Beam Tilts, average, dBi	14.5	14.5	17.3	17.7	18.1	18.5	
Gain by all Beam Tilts Tolerance, dB	±0.6	±1.1	±0.4	±0.4	±0.5	±0.3	
Gain by Beam Tilt, average, dBi	0° 14.4 7° 14.6 14° 14.3	0° 14.7 7° 14.7 14° 14.1	0° 17.2 4° 17.3 7° 17.3	0° 17.6 4° 17.7 7° 17.7	0° 18.0 4° 18.2 7° 18.1	0 ° 18.3 4 ° 18.5 7 ° 18.6	
Beamwidth, Horizontal Tolerance, degrees	±2	±2.1	±3	±4.1	±6.5	±2.9	
Beamwidth, Vertical Tolerance, degrees	±0.7	±0.7	±0.3	±0.2	±0.3	±0.2	
USLS, beampeak to 20° above beampeak, dB	13	14	16	16	17	15	
Front-to-Back Total Power at 180° ± 30°, dB	23	22	27	27	25	25	
CPR at Boresight, dB	22	21	23	23	22	19	

Page 3 of 4



CPR at Sector, dB 10 7 16 13 11 4

Mechanical Specifications

Effective Projective Area (EPA), frontal 0.26 m² | 2.799 ft² Effective Projective Area (EPA), lateral 0.22 m² | 2.368 ft²

 Wind Loading @ Velocity, frontal
 278.0 N @ 150 km/h (62.5 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 230.0 N @ 150 km/h (51.7 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 537.0 N @ 150 km/h (120.7 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 282.0 N @ 150 km/h (63.4 lbf @ 150 km/h)

Wind Speed, maximum 241 km/h | 149.75 mph

Packaging and Weights

 Width, packed
 409 mm | 16.102 in

 Depth, packed
 299 mm | 11.772 in

 Length, packed
 1952 mm | 76.85 in

 Weight, gross
 32.3 kg | 71.209 lb

Regulatory Compliance/Certifications

Agency Classification

CHINA-ROHS Below maximum concentration value

ISO 9001:2015 Designed, manufactured and/or distributed under this quality management system

ROHS Compliant



Included Products

BSAMNT-3 – Wide Profile Antenna Downtilt Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members. Kit contains one scissor top bracket set and one bottom bracket set.

* Footnotes

Performance Note Severe environmental conditions may degrade optimum performance

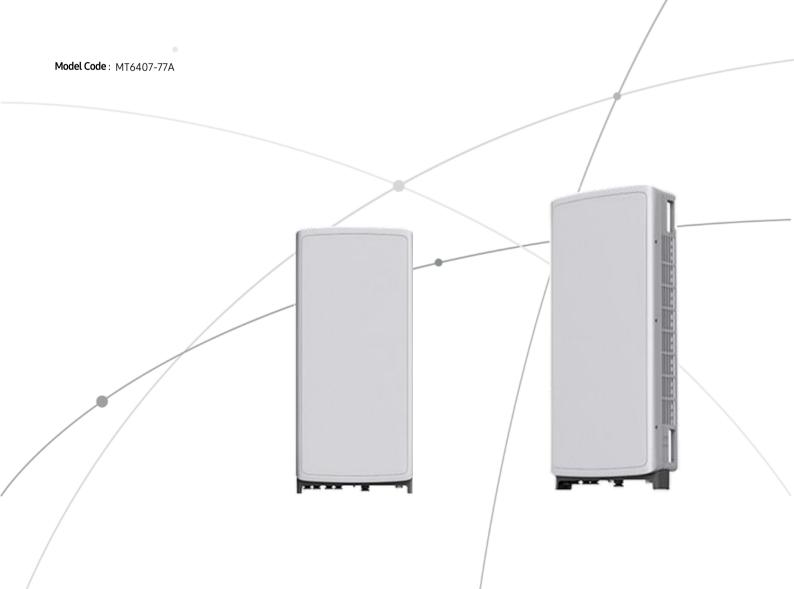


SAMSUNG

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..



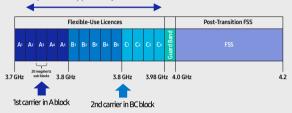
Points of Differentiation

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.

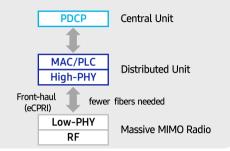
This helps operators reduce their CAPEX as they now need less products to cover the same area than before.

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

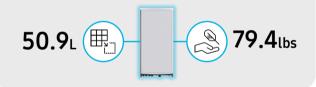
Samsung C-Band 64T64R Massive MIMO radio supports not only CPRI but also eCPRI as front-haul interface. It enables operators can cut down on OPEX/CAPEX by reducing front-haul bandwidth through low layer split and using ethernet based higher efficient line.



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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SAMSUNG

700/850MHZ MACRO RADIO

DUAL-BAND AND HIGH POWER FOR MACRO COVERAGE

Samsung's future proof dual-band radio is designed to help effectively increase the coverage areas in wireless networks. This 700/850MHz 4T4R dual-band radio has 4Tx/4Rx to 2Tx/2Rx RF chains options and a total output power of 320W, making it ideal for macro sites.

Model Code

RF4440d-13A

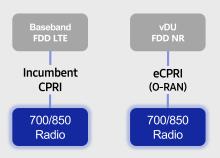




Points of Differentiation

Continuous Migration

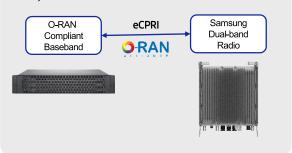
Samsung's 700/850MHz macro radio can support each incumbent CPRI interface as well as an advanced eCPRI interface. This feature provides installable options for both legacy LTE networks and added NR networks.



O-RAN Compliant

A standardized O-RAN radio can help when implementing cost-effective networks because it is capable of sending more data without compromising additional investments.

Samsung's state-of-the-art O-RAN technology will help accelerate the effort toward constructing a solid O-RAN ecosystem.



Optimum Spectrum Utilization

The number of required carriers varies according to site (region). The ability to support many carriers is essential for using all frequencies that the operator has available.

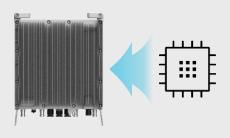
The new 700/850MHz dual-band radio can support up to 2 carriers in the B13 (700MHz) band and 3 carriers in the B5 (850MHz) band, respectively.



Secured Integrity

Access to sensitive data is allowed only to authorized

The Samsung radio's CPU can protect root of trust, which is credential information to verify SW integrity, and secure storage provides access control to sensitive data by using dedicated hardware (TPM).





Technical Specifications

Item	Specification
Tech	LTE / NR
Brand	B13(700MHz), B5(850MHz)
Frequency Band	DL: 746 – 756MHz, UL: 777 – 787MHz DL: 869 – 894MHz, UL: 824 – 849MHz
RF Power	(B13) 4 × 40W or 2 × 60W (B5) 4 × 40W or 2 × 60W
IBW/OBW	(B13) 10MHz / 10MHz (B5) 25MHz / 25MHz
Installation	Pole, Wall
Size/ Weight	14.96 x 14.96 x 9.05inch (33.2L) / 70.33 lb

SAMSUNG

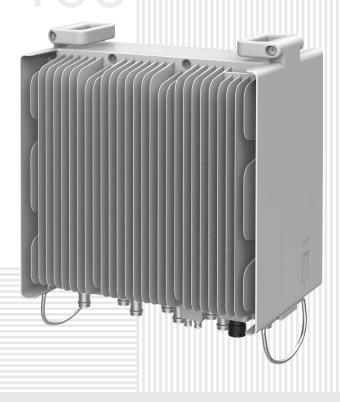
AWS/PCS MACRO RADIO

DUAL-BAND AND HIGH POWER FOR MACRO COVERAGE

Samsung's future proof dual-band radio is designed to help effectively increase the coverage areas in wireless networks. This AWS/PCS 4T4R dual-band radio has 4Tx/4Rx to 2Tx/2Rx RF chains options and a total output power of 320W, making it ideal for macro sites.

Model Code

RF4439d-25A

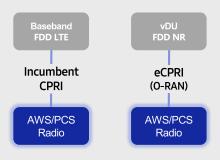




Points of Differentiation

Continuous Migration

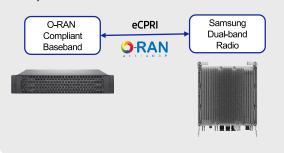
Samsung's AWS/PCS macro radio can support each incumbent CPRI interface as well as advanced eCPRI interfaces. This feature provides installable options for both legacy LTE networks and added NR networks.



O-RAN Compliant

A standardized O-RAN radio can help in implementing costeffective networks, which are capable of sending more data without compromising additional investments.

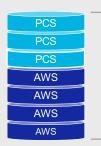
Samsung's state-of-the-art O-RAN technology will help accelerate the effort toward constructing a solid O-RAN ecosystem.



Optimum Spectrum Utilization

The number of required carriers varies according to site (region). Supporting many carriers is essential for using all frequencies that the operator has available.

The new AWS/PCS dual-band radio can support up to 3 carriers in the PCS (1.9GHz) band and 4 carriers in the AWS (2.1GHz) band, respectively.



Supports up to 7 carriers

Brand New Features in a Compact Size

Samsung's AWS/PCS macro radio offers several features, such as dual connectivity for baseband for both CDU and vDU, O-RAN capability, more carriers and an enlarged PCS spectrum, combined into an incumbent radio volume of 36.8L.



2 FH connectivity O-RAN capability

More carriers and spectrum

Same as an incumbent radio volume



Technical Specifications

Item	Specification
Tech	LTE/NR
Brand	B25(PCS), B66(AWS)
Frequency Band	DL: 1930 – 1995MHz, UL: 1850 – 1915MHz DL: 2110 – 2200MHz, UL: 1710 – 1780MHz
RF Power	(B25) 4 × 40W or 2 × 60W (B66) 4 × 60W or 2 × 80W
IBW/OBW	(B25) 65MHz / 30MHz (B66) DL 90MHz, UL 70MHz / 60MHz
Installation	Pole, Wall
Size/ Weight	14.96 x 14.96 x 10.04inch (36.8L) / 74.7lb

ATTACHMENT 3

Site Name: NAUGATUCK CT RELO

Cumulative Power Density

Operator	Operating Frequency	Number of Trans.	ERP Per Trans.	Total ERP	Distance to Target	Calculated Power Density	Maximum Permissible Exposure*	Fraction of MPE
	(MHz)		(watts)	(watts)	(feet)	(mW/cm^2)	(mW/cm^2)	(%)
VZW 700	751	4	689	2755	155	0.0041	0.5007	0.82%
VZW CDMA	877.26	2	438	875	155	0.0013	0.5848	0.22%
VZW Cellular	874	4	700	2799	155	0.0042	0.5827	0.72%
VZW PCS	1975	4	1433	5732	155	0.0086	1.0000	0.86%
VZW AWS	2120	4	1600	6398	155	0.0096	1.0000	0.96%
VZW CBAND	3730.08	2	13335	26670	155	0.0399	1.0000	3.99%
		1						
		1						ļ

Total Percentage of Maximum Permissible Exposure

7 57%

MHz = Megahertz mW/cm^2 = milliwatts per square centimeter ERP = Effective Radiated Power

Absolute worst case maximum values used.

^{*}Guidelines adopted by the FCC on August 1, 1996, 47 CFR Part 1 based on NCRP Report 86, 1986 and generally on ANSI/IEEE C95.1-1992

^{**}Calculation includes a -10 dB Off Beam Antenna Pattern Adjustment pursuant to Attachments B and C of the Siting Council's November 10, 2015 Memorandum for Exempt Modification filings

ATTACHMENT 4



CONDITION ASSESSMENT & STRUCTURAL ANALYSIS REPORT 200-ft GUYED TOWER PROSPECT, CONNECTICUT

Prepared for Verizon Wireless

Verizon Site Ref. 468186; Naugatuck CT Relo

Site Address: 37 Peach Orchard Road, Prospect, CT 06712

APT Filing No. CT141_13230

February 17, 2022



CONDITION ASSESSMENT & STRUCTURAL ANALYSIS REPORT 200-ft GUYED TOWER PROSPECT, CONNECTICUT prepared for Verizon Wireless

EXECUTIVE SUMMARY:

All-Points Technology Corporation, P.C. (APT) performed a condition assessment and structural analysis of the 200-foot guyed tower structure to support a proposed Verizon equipment modification.

The proposed Verizon antenna and appurtenance modification consists of the proposed replacement of nine (9) existing panel antennas and six (6) existing Remote Radio Heads (RRHs) with six (6) new panel antennas & three (3) new LSub6 antennas with integrated RRHs and six (6) new Samsung dual-band RRHs. Additionally, Verizon proposes to replace their two (2) existing 60VPs with one (1) new 120VP. Equipment shall be fed by six (6) existing 1-5/8" coaxial cables and two (2) new 6x12 Low-Inductance (LI) hybrid feed-line cables as referenced in the table below.

Equipment shall be installed on the three (3) existing 12.5' sector mounts at 153.75'. As referenced in the Mount Modification Drawings listed below, prior to the proposed equipment installation, the following modifications are required:

- Three (3) VZWSMART P40-312X150 horizontal bracing pipes
- Three (3) VZWSMART P40-238X096, 8' long, P2 STD (2.375" x 0.154") pipe
- Six (6) VZWSMART-MSK1 mount pipe crossover plates
- Six (6) VZWSMART-SFK3-SL V-bracing kits
- Twelve (12) VZWSMART-MSK2 bracing pipe crossover plates
- Three (3) VZWSMART-SFK1 tie back assembly

Our analysis indicates that the subject tower structure meets the requirements of the 2015 International Building Code (IBC 2015), as amended by the 2018 Connecticut State Building Code, and the ANSI/TIA-222-H standard with the proposed and existing equipment configuration. APT observed thirteen (13) inactive feed lines to the 170' elevation taped to the tower legs. We recommend these be removed to reduce wind load. APT also observed no safety climbing cable is installed. We recommend installing one.

Evaluation of the existing base foundation and guy anchors could not be performed, as information on their design or construction was not available to APT. However, since the tower has additional available capacity the foundation and anchors are likely to be adequate.

INTRODUCTION:

A condition assessment and structural analysis was performed on the above-mentioned communications tower by APT for Verizon Wireless. The tower is located at 37 Peach Orchard Road in Prospect, Connecticut.

The following information was utilized in the preparation of this analysis:

- Field notes and photos from APT's site visits, most recent being 02/09/22. APT climbed the structure in its entirety to record information regarding physical and dimensional properties of the structure and its appurtenances.
- Structural Analysis Report prepared by APT (Project No. CT1414262) dated 03/20/18.
- Mount Modification Drawings prepared by Paul J. Ford & Company (Project No. 22721-0344.002.8191) dated 08/12/21.
- Post-Mod Antenna Mount Analysis Report and PMI Requirements prepared by Paul J. Ford & Company (Project No. 22721-0344.002.8191) dated 08/12/21.
- RFDS detailing Verizon's proposed equipment changes, latest version.

The structure is a 200-foot guyed tower of unknown manufacturer. The tower features pipe leg and bracing members, and is guyed at four elevations, all of which contain torque arms with double guy wires.

The analysis was conducted using the following antenna inventory (proposed equipment shown in **bold** text):

Carrier	Antenna and Appurtenance Make/Model	Elevation	Status	Mount Type	Coax/Feed- Line
	6' TV antenna, 6' omnidirectional whip	205'		8' x 2-3/8" pipe mount	7/8"
	Beacon, Lightning rod	200'		Top plates	1" conduit
	Scala paraflector grid (PR-900 or equal)	193'		Leg	1-1/4"
	Inactive feed lines from removed array	170'		N.A.	(12) 1-5/8", 3/8" ²
Verizon Wireless	(6) Commscope NHH-65B-R2B & (3) Andrew LNX-6514 DS panel antennas, (3) Samsung MT6407-77A antennas, (3) Samsung RF4439d-25A RRHs, (3) Samsung RF4440d-13A RRHs, (1) 12OVP	155'		(3) 12.5' sector mounts w/ modifications ³	(6) 1-5/8", (2) 6x12 LI hybrid
	(2) obstruction lights	108'		Conduit across legs	1" conduit from 200'
	2' x 3' grid	78'		Leg	1/4"

Notes:

- 1. ETR = Existing to Remain; ERL= Existing to be Relocated; P = Proposed.
- 2. APT observed the thirteen (13) inactive feed lines to 170' taped to the tower leg.
- 3. Mount elevation is 153.75' according to the mount analysis prepared by Paul J. Ford & Company.

CONDITION ASSESSMENT:

- **General Condition:** The tower, a painted steel structure, appeared to be in generally sound condition. No signs of movement or overstress were observed.
- Climbing Facilities: Climbing step-horizontals are in place on the northeastern face of the tower. No safety climb cable is installed. We recommend installing one.
- Leg Members: Leg members were comprised of steel pipe and appeared to be in sound condition.
- Lattice Bracing: Braces consist of pipe K-braces and appeared to be in generally sound condition. Bracing connections were visually observed to the maximum extent practicable and appeared to be in good condition, with no deficient welds noted.

- **Splice Connections:** Connections were checked by hand for tightness at each splice location. No loose or missing splice bolts were observed.
- Appurtenance Connections: Antenna mounting hardware appeared to be in good condition, with corrosion resistant hardware and galvanized members prevalent. <u>APT observed thirteen (13) inactive feed lines to the 170' elevation taped to the tower legs see photo pages. We recommend these be removed to reduce wind load.</u>
- Base Foundation: Exposed concrete appeared to be in sound condition.
- Guy Cables and Hardware: Guy cables appeared to be in sound condition. Guy attachment hardware appeared to be in good condition.

STRUCTURAL ANALYSIS:

Methodology:

This structural analysis has been prepared in accordance with the ANSI/TIA-222-H standard entitled "Structural Standard for Antenna Supporting Structures, Antennas and Small Wind Turbine Support Structures; American Institute of Steel Construction (AISC) Manual of Steel Construction", and the 2015 International Building Code (IBC), as amended by the 2018 Connecticut State Building Code.

Antenna, appurtenance and mount assembly loads were evaluated utilizing the ANSI/TIA-222-H standard.

- o Load Case 1: 118 mph (3-second gust), 0" ice
- o Load Case 2: 50mph (3-second gust) w/ 1.0" ice thickness required
- o Load Case 3: 60mph (3-second gust) (Service Load)
- Structure Class: IIExposure Category: BTopographic Category: 2
- o Crest Height: 400'

Analysis Results:

Analysis of the tower was conducted in accordance with the criteria outlined herein with antenna changes as previously described. The following table summarizes the results of the analysis based on stresses of individual leg and bracing members:

Elevation	Legs 1	Bracing ²
180'-200'	49%	25%
160'-180'	60%	18%
140'-160'	63%	69%
120'-140'	63%	31%
100'-120'	80%	44%
80'-100'	80%	50%
60'-80'	64%	16%
40'-60'	74%	52%
20'-40'	63%	22%
0'-20'	65%	42%

Notes:

- 1. Based on ASTM A572 Gr. 50 2.5" standard pipe.
- 2. Based on ASTM A36 pipe K-braces.

Splice Bolts:

Connection bolts were evaluated under the proposed loading. All bolts were found to be adequately sized to support the proposed loads.

Guy Cables:

Our analysis indicates all guys are adequately sized to support the proposed equipment.

Guy Elevation	Capacity
200'	55%
150'	83%
100.25'	61%
50'	38%

Base Foundation:

Evaluation of the existing base foundation and guy anchors could not be performed, as information on their design or construction was not available to APT. Since the tower has additional capacity available the foundation and anchors are likely to be adequate.

Factored base reactions imposed with the additional antennas were calculated as follows:

Location	Vertical	Horizontal
Base	117.0 kips	1.2 kips
Guy Anchor	-37.4 kips	42.8 kips

CONCLUSIONS AND RECOMMENDATIONS:

In conclusion, our structural analysis indicates that the 200-foot guyed tower structure located at 37 Peach Orchard Road in Prospect, Connecticut meets the requirements of the 2015 International Building Code (IBC), as amended by the 2018 Connecticut State Building Code, and the ANSI/TIA-222-H standard with Verizon Wireless's proposed equipment. <u>APT observed thirteen (13) inactive feed lines on the tower to the 170' elevation. We recommend these be removed to reduce wind load. APT also observed no safety climbing cable is installed. We recommend installing one.</u>

Sincerely,

All-Points Technology Corp. P.C.

Michael T. Larson, P.E. Project Engineer

Prepared by:

All-Points Technology Corp. P.C.

Ali M. Adair Project Scientist

February 17, 2022 Page 5 APT Project #CT141 13230

LIMITATIONS:

This report is based on the following:

- 1. Tower is properly installed and maintained.
- 2. All members are in an undeteriorated condition.
- 3. All required members are in place.
- 4. All bolts are in place and are properly tightened.
- 5. Tower is in plumb condition.
- 6. All tower members were properly designed, detailed, fabricated, and installed and have been properly maintained since erection.

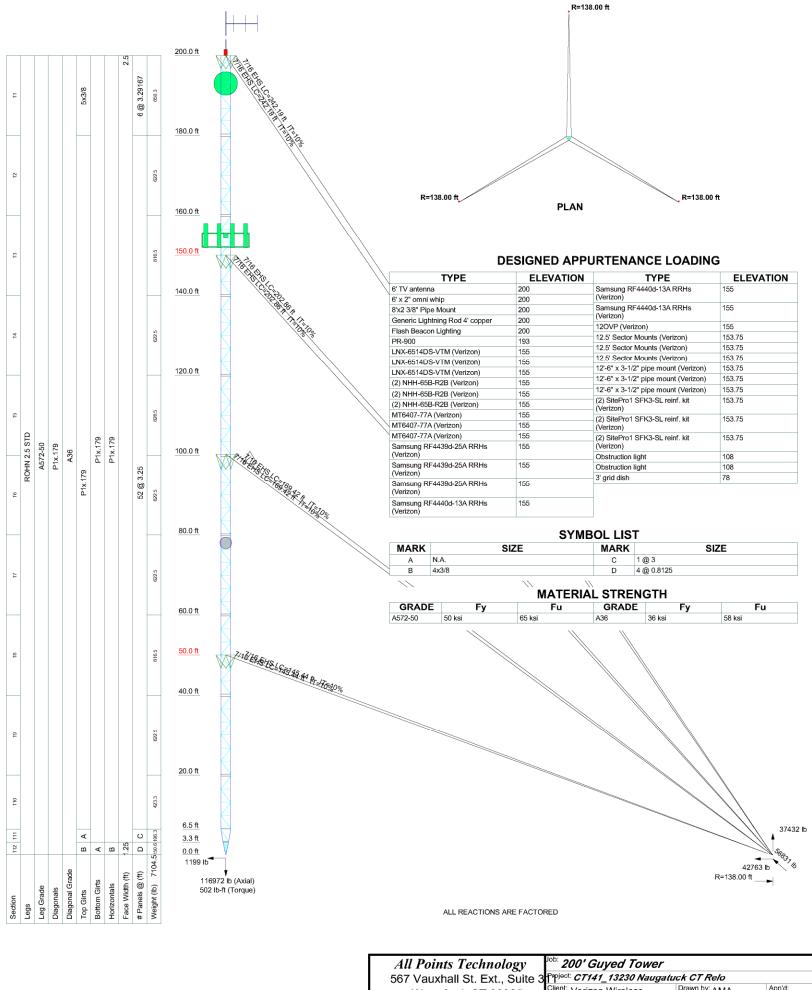
All-Points Technology Corporation, P.C. (APT) is not responsible for modifications completed prior to or hereafter which APT is not or was not directly involved. Modifications include but are not limited to:

- 1. Replacing or strengthening bracing members.
- 2. Reinforcing vertical members in any manner.
- 3. Adding or relocating torque arms or guys.
- 4. Installing antenna mounting gates or side arms.

APT hereby states that this document represents the entire report and that it assumes no liability for any factual changes that may occur after the date of this report. All representations, recommendations, and conclusions are based upon the information contained and set forth herein. If you are aware of any information which is contrary to that which is contained herein, or you are aware of any defects arising from the original design, material, fabrication and erection deficiencies, you should disregard this report and immediately contact APT. APT disclaims all liability for any representation, recommendation, or conclusion not expressly stated herein.

Appendix A

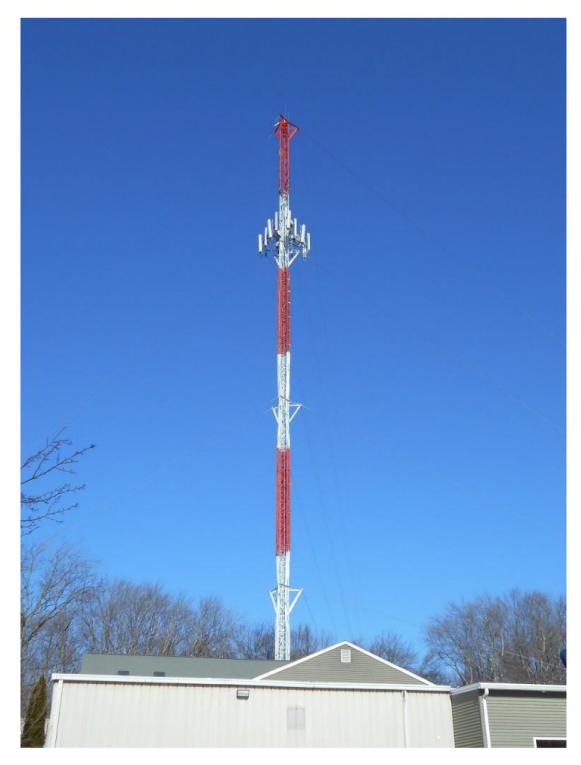
Tower Schematic



All Points Technology	Job: 200' Guyed Tower		
567 Vauxhall St. Ext., Suite 3	Project: CT141_13230 Naugatu	ck CT Relo	
Waterford, CT 06385	Client: Verizon Wireless	Drawn by: AMA	App'd:
Phone: (860) 663-1697	^{Code:} TIA-222-H	Date: 02/17/22	Scale: NTS
FAX: (860) 663-0935	Path: C/Users/User/Doarments/APTRob/Verizon Wireless/CTICT141 133	230 Naucatuck CT ReiolCT141 13230 Naucatuck CT Re	Dwg No. E-

Appendix B

Photographs



Overview photo of the existing 200' guyed tower located in Prospect, Connecticut.



Overview photos of typical existing equipment, mounts and guy pull-offs.





Photos of Verizon's existing cable entry ports and ground bar at shelter.





Photo of Verizon's existing ice bridge.





Photos of Verizon's typical existing equipment and mounts at 155'.



Additional photos of Verizon's typical existing equipment and mounts at 155'.





Additional photos of Verizon's typical existing equipment and mounts at 155'.





Additional photos of Verizon's typical existing equipment and mounts at 155'.





Photo of existing cable entry ports.





Photos of existing feed lines at tower.



Photos of typical existing equipment and mounts.

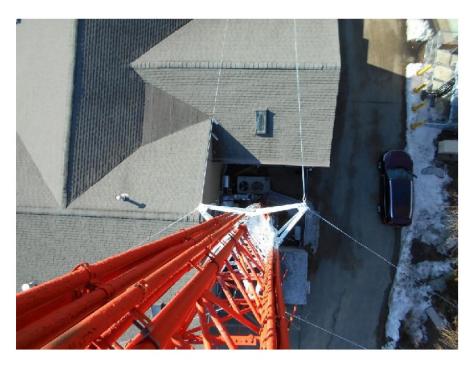




Photos of inactive feed lines taped to tower leg.







Photos of typical existing guy pull-offs.





Photo of typical existing base foundation.

Appendix C

Calculations

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All Points Technology

567 Vauxhall St. Ext., Suite 311 Waterford, CT 06385 Phone: (860) 663-1697 FAX: (860) 663-0935

Ī	Job	Page
l	200' Guyed Tower	1 of 8
Ī	Project	Date
l	CT141_13230 Naugatuck CT Relo	14:29:45 02/16/22
	Client Verizon Wireless	Designed by AMA

Tower Input Data

The main tower is a 3x guyed tower with an overall height of 200.00 ft above the ground line.

The base of the tower is set at an elevation of 0.00 ft above the ground line.

The face width of the tower is 2.50 ft at the top and tapered at the base.

This tower is designed using the TIA-222-H standard.

The following design criteria apply:

Tower base elevation above sea level: 780.00 ft.

Basic wind speed of 118 mph.

Risk Category II.

Exposure Category B.

Simplified Topographic Factor Procedure for wind speed-up calculations is used.

Topographic Category: 2.

Crest Height: 400.00 ft.

Nominal ice thickness of 1.0000 in.

Ice thickness is considered to increase with height.

Ice density of 56 pcf.

A wind speed of 50 mph is used in combination with ice.

Temperature drop of 50 °F.

Deflections calculated using a wind speed of 60 mph.

Pressures are calculated at each section.

Stress ratio used in tower member design is 1.

Safety factor used in guy design is 1.

Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

Guy Data

Guy Elevation	Guy Grade		Guy Size	Initial Tension	%	Guy Modulus	Guy Weight	L_u	Anchor Radius	Anchor Azimuth	Anchor Elevation	End Fitting
ft				lb		ksi	plf	ft	ft	$\stackrel{Adj.}{\circ}$	ft	Efficiency %
200	EHS	A	7/16	2080.00	10%	21000	0.399	241.98	138.00	0.0000	0.00	100%
		В	7/16	2080.00	10%	21000	0.399	241.98	138.00	0.0000	0.00	100%
		C	7/16	2080.00	10%	21000	0.399	241.98	138.00	0.0000	0.00	100%
150	EHS	Α	7/16	2080.00	10%	21000	0.399	202.69	138.00	0.0000	0.00	100%
		В	7/16	2080.00	10%	21000	0.399	202.69	138.00	0.0000	0.00	100%
		C	7/16	2080.00	10%	21000	0.399	202.69	138.00	0.0000	0.00	100%
100.25	EHS	Α	7/16	2080.00	10%	21000	0.399	169.28	138.00	0.0000	0.00	100%
		В	7/16	2080.00	10%	21000	0.399	169.28	138.00	0.0000	0.00	100%
		C	7/16	2080.00	10%	21000	0.399	169.28	138.00	0.0000	0.00	100%
50	EHS	Α	7/16	2080.00	10%	21000	0.399	145.32	138.00	0.0000	0.00	100%
		В	7/16	2080.00	10%	21000	0.399	145.32	138.00	0.0000	0.00	100%
		C	7/16	2080.00	10%	21000	0.399	145.32	138.00	0.0000	0.00	100%

4 7	7
THY I	ower

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l	200' Guyed Tower	2 of 8
Γ	Project	Date
	CT141_13230 Naugatuck CT Relo	14:29:45 02/16/22
	Client Verizon Wireless	Designed by AMA

Guy Data (cont'd)

Guy Elevation ft	Mount Type	Torque-Arm Spread ft	Torque-Arm Leg Angle °	Torque-Arm Style	Torque-Arm Grade	Torque-Arm Type	Torque-Arm Size
200	Torque Arm	5.00	45.0000	Bat Ear	A36 (36 ksi)	Equal Angle	L3x3x1/4
150	Torque Arm	5.00	45.0000	Bat Ear	A36 (36 ksi)	Equal Angle	L3x3x1/4
100.25	Torque Arm	5.00	45.0000	Bat Ear	A36 (36 ksi)	Equal Angle	L3x3x1/4
50	Torque Arm	5.00	45.0000	Bat Ear	A36 (36 ksi)	Equal Angle	L3x3x1/4

Guy Elevation ft	Diagonal Grade	Diagonal Type	Upper Diagonal Size	Lower Diagonal Size	Is Strap.	Pull-Off Grade	Pull-Off Type	Pull-Off Size
200.00	A572-50	Solid Round				A572-50	Solid Round	
	(50 ksi)					(50 ksi)		
150.00	A572-50	Solid Round				A572-50	Flat Bar	
	(50 ksi)					(50 ksi)		
100.25	A572-50	Solid Round				A572-50	Flat Bar	
	(50 ksi)					(50 ksi)		
50.00	A572-50	Solid Round				A572-50	Flat Bar	
	(50 ksi)					(50 ksi)		

Feed Line/Linear Appurtenances

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Face Offset in	Lateral Offset (Frac FW)	#	# Per Row	Clear Spacing in	Width or Diameter in	Perimeter in	Weight plf
1" conduit	С	No	No	Ar (CaAa)	200.00 - 8.00	0.0000	0	1	1	1.0000	1.0000		0.50
1 1/4	В	No	No	Ar (CaAa)	193.00 - 8.00	0.0000	-0.47	1	1	0.0000	1.5500		0.66
7/8	В	No	No	Ar (CaAa)	200.00 - 8.00	0.0000	0.47	1	1	1.1100	1.1100		0.54
1/4	В	No	No	Ar (CaAa)	78.00 - 8.00	0.0000	0	1	1	0.2500	0.2500		0.05
1 5/8 (From removed array)	С	No	No	Ar (CaAa)	170.00 - 8.00	0.0000	0.5	6	3	0.5000	1.9800		1.04
1 5/8 (From removed	С	No	No	Ar (CaAa)	170.00 - 8.00	0.0000	-0.5	6	3	0.5000	1.9800		1.04
array) 3/8 (From removed array)	С	No	No	Ar (CaAa)	170.00 - 8.00	0.0000	-0.4	1	1	0.4400	0.4400		0.08
1 5/8 (Verizon)	A	No	No	Ar (CaAa)	155.00 - 8.00	0.0000	0.45	6	2	0.5000	1.9800		1.04
6x12 LI hybrid (Verizon)	A	No	No	Ar (CaAa)	155.00 - 8.00	0.0000	0.3	2	2	0.5000	1.5500		1.88

tnxTower

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Ī	Job	Page
l	200' Guyed Tower	3 of 8
Ī	Project	Date
l	CT141_13230 Naugatuck CT Relo	14:29:45 02/16/22
	Client Verizon Wireless	Designed by AMA

Discrete Tower Loads

Description	Face or	Offset Type	Offsets: Horz	Azimuth Adjustment	Placement		C_AA_A Front	C_AA_A Side	Weigh
	Leg		Lateral	,					
			Vert ft	0	ft		ft²	ft^2	lb
			ft		Ji		Ji	Ji	ιυ
6' TV antenna	A	From Leg	0.50	0.0000	200.00	No Ice	4.00	4.00	60.00
			0.00			1/2" Ice	5.63	5.63	89.63
			8.00			1" Ice	7.28	7.28	129.43
6' x 2" omni whip	A	From Leg	0.50	0.0000	200.00	No Ice	1.20	1.20	25.00
_		_	0.00			1/2" Ice	1.80	1.80	34.39
			8.00			1" Ice	2.17	2.17	47.81
8'x2 3/8" Pipe Mount	A	None		0.0000	200.00	No Ice	1.90	1.90	29.20
						1/2" Ice	2.73	2.73	43.54
						1" Ice	3.40	3.40	63.16
Generic Lightning Rod 4'	A	From Leg	0.00	0.0000	200.00	No Ice	0.50	0.50	0.00
copper			0.00			1/2" Ice	1.00	1.00	0.00
			2.00			1" Ice	1.50	1.50	0.00
Flash Beacon Lighting	C	None		0.0000	200.00	No Ice	2.70	2.70	50.00
						1/2" Ice	3.10	3.10	70.00
						1" Ice	3.50	3.50	90.00
PR-900	A	None		0.0000	193.00	No Ice	6.35	6.35	38.00
						1/2" Ice	11.43	11.43	49.40
						1" Ice	16.51	16.51	60.80
LNX-6514DS-VTM	A	From Face	4.00	0.0000	155.00	No Ice	8.17	4.17	30.00
(Verizon)			0.00			1/2" Ice	8.63	4.61	74.68
			0.00			1" Ice	9.10	5.07	125.30
LNX-6514DS-VTM	В	From Face	4.00	0.0000	155.00	No Ice	8.17	4.17	30.00
(Verizon)			0.00			1/2" Ice	8.63	4.61	74.68
			0.00			1" Ice	9.10	5.07	125.36
LNX-6514DS-VTM	C	From Face	4.00	0.0000	155.00	No Ice	8.17	4.17	30.00
(Verizon)			0.00			1/2" Ice	8.63	4.61	74.68
(2) NHH (5D D2D		F F	0.00	0.0000	155.00	1" Ice	9.10	5.07	125.30
(2) NHH-65B-R2B	A	From Face	4.00	0.0000	155.00	No Ice	8.08	5.34	48.00
(Verizon)			0.00			1/2" Ice	8.53	5.79	98.05
(2) NIIII (5D D2D	D	P P	0.00	0.0000	155.00	1" Ice	9.00	6.26	154.20
(2) NHH-65B-R2B	В	From Face	4.00	0.0000	155.00	No Ice	8.08	5.34	48.00
(Verizon)			0.00			1/2" Ice	8.53	5.79	98.05
(2) NIIII (5D D2D	C	Enam Enam	0.00	0.0000	155.00	1" Ice	9.00 8.08	6.26	154.20
(2) NHH-65B-R2B	С	From Face	4.00 0.00	0.0000	155.00	No Ice 1/2" Ice	8.53	5.34 5.79	48.00 98.05
(Verizon)			0.00			1" Ice	9.00	6.26	154.20
MT6407-77A	Α	From Face	4.00	0.0000	155.00	No Ice	4.69	1.84	90.00
(Verizon)	А	Prom Pace	0.00	0.0000	155.00	1/2" Ice	4.98	2.06	119.2
(Verizon)			0.00			1" Ice	5.28	2.29	152.33
MT6407-77A	В	From Face	4.00	0.0000	155.00	No Ice	4.69	1.84	90.00
(Verizon)	Б	110m race	0.00	0.0000	155.00	1/2" Ice	4.98	2.06	119.2
(VCIIZOII)			0.00			1" Ice	5.28	2.29	152.3
MT6407-77A	C	From Face	4.00	0.0000	155.00	No Ice	4.69	1.84	90.00
(Verizon)		1 Tom 1 dec	0.00	0.0000	155.00	1/2" Ice	4.98	2.06	119.2
(v crizon)			0.00			1" Ice	5.28	2.29	152.3:
Samsung RF4439d-25A	Α	From Face	3.50	0.0000	155.00	No Ice	1.87	1.25	100.0
RRHs			0.00			1/2" Ice	2.03	1.39	118.32
(Verizon)			0.00			1" Ice	2.21	1.54	139.4
Samsung RF4439d-25A	В	From Face	3.50	0.0000	155.00	No Ice	1.87	1.25	100.0
RRHs	_		0.00			1/2" Ice	2.03	1.39	118.3
(Verizon)			0.00			1" Ice	2.21	1.54	139.4
Samsung RF4439d-25A	C	From Face	3.50	0.0000	155.00	No Ice	1.87	1.25	100.0
RRHs	-		0.00		-	1/2" Ice	2.03	1.39	118.3
(Verizon)			0.00			1" Ice	2.21	1.54	139.42

tnxTower

All Points Technology 567 Vauxhall St. Ext., Suite 311 Waterford, CT 06385 Phone: (860) 663-1697 FAX: (860) 663-0935

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	200' Guyed Tower	4 of 8
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Description	Face or Leg	Offset Type	Offsets: Horz Lateral	Azimuth Adjustment	Placement		C_AA_A Front	C_AA_A Side	Weight
			Vert ft ft ft	٥	ft		ft²	ft²	lb
Samsung RF4440d-13A RRHs	A	From Face	3.50 0.00	0.0000	155.00	No Ice 1/2" Ice	1.87 2.03	1.13 1.27	85.00 102.32
(Verizon) Samsung RF4440d-13A RRHs	В	From Face	0.00 3.50 0.00	0.0000	155.00	1" Ice No Ice 1/2" Ice	2.21 1.87 2.03	1.41 1.13 1.27	122.37 85.00 102.32
(Verizon) Samsung RF4440d-13A RRHs	C	From Face	0.00 3.50 0.00	0.0000	155.00	1" Ice No Ice 1/2" Ice	2.21 1.87 2.03	1.41 1.13 1.27	122.37 85.00 102.32
(Verizon) 12OVP (Verizon)	C	None	0.00	0.0000	155.00	1" Ice No Ice 1/2" Ice	2.21 4.06 4.32	1.41 3.10 3.34	122.37 38.00 74.49
12.5' Sector Mounts (Verizon)	A	None		0.0000	153.75	1" Ice No Ice 1/2" Ice	4.58 13.20 19.50	3.58 9.20 14.60	114.97 658.00 804.00
12.5' Sector Mounts (Verizon)	В	None		0.0000	153.75	1" Ice No Ice 1/2" Ice	25.80 13.20 19.50	19.50 9.20 14.60	1015.00 658.00 804.00
12.5' Sector Mounts (Verizon)	C	None		0.0000	153.75	1" Ice No Ice 1/2" Ice	25.80 13.20 19.50	19.50 9.20 14.60	1015.00 658.00 804.00
12'-6" x 3-1/2" pipe mount (Verizon)	A	None		0.0000	153.75	1" Ice No Ice 1/2" Ice	25.80 3.84 5.66	19.50 3.84 5.66	1015.00 128.00 159.06
12'-6" x 3-1/2" pipe mount (Verizon)	В	None		0.0000	153.75	1" Ice No Ice 1/2" Ice	6.97 3.84 5.66	6.97 3.84 5.66	198.26 128.00 159.06
12'-6" x 3-1/2" pipe mount (Verizon)	C	None		0.0000	153.75	1" Ice No Ice 1/2" Ice	6.97 3.84 5.66	6.97 3.84 5.66	198.26 128.00 159.06
(2) SitePro1 SFK3-SL reinf.	A	None		0.0000	153.75	1" Ice No Ice 1/2" Ice	6.97 13.20 19.50	6.97 9.20 14.60	198.26 658.00 804.00
(Verizon) (2) SitePro1 SFK3-SL reinf. kit	В	None		0.0000	153.75	1" Ice No Ice 1/2" Ice	25.80 13.20 19.50	19.50 9.20 14.60	1015.00 658.00 804.00
(Verizon) (2) SitePro1 SFK3-SL reinf. kit	C	None		0.0000	153.75	1" Ice No Ice 1/2" Ice	25.80 5.39 7.89	19.50 2.70 3.95	1015.00 132.00 250.00
(Verizon) Obstruction light	В	None		0.0000	108.00	1" Ice No Ice 1/2" Ice	10.39 0.14 0.22	5.20 0.14 0.22	375.00 8.00 10.47
Obstruction light	C	None		0.0000	108.00	1" Ice No Ice 1/2" Ice	0.22 0.29 0.14 0.22	0.22 0.29 0.14 0.22	13.91 8.00 10.47
						1" Ice	0.22	0.29	13.91

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tnvl	ower

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Dishes											
Description	Face or Leg	Dish Type	Offset Type	Offsets: Horz Lateral	Azimuth Adjustment	3 dB Beam Width	Elevation	Outside Diameter		Aperture Area	Weight
				Vert ft	0	0	ft	ft		ft²	lb
3' grid dish	A	Grid	From	0.50	0.0000		78.00	3.00	No Ice	7.07	20.00
			Leg	0.00					1/2" Ice	7.47	38.33
				0.00					1" Ice	7.86	56.66

Solution Summary

Maximum Tower Deflections - Service Wind

Section	Elevation	Horz.	Gov.	Tilt	Twist
No.		Deflection	Load		
	ft	in	Comb.	٥	0
T1	200 - 180	1.700	33	0.1786	0.0478
T2	180 - 160	2.340	33	0.1232	0.0614
T3	160 - 140	2.578	33	0.0112	0.0546
T4	140 - 120	2.335	33	0.0978	0.0306
T5	120 - 100	1.769	33	0.1594	0.0330
T6	100 - 80	1.106	33	0.1171	0.0261
T 7	80 - 60	0.785	33	0.0624	0.0935
T8	60 - 40	0.544	33	0.0520	0.0831
T9	40 - 20	0.396	33	0.0229	0.0405
T10	20 - 6.5	0.269	33	0.0474	0.0754
T11	6.5 - 3.25	0.100	33	0.0676	0.0753
T12	3.25 - 0	0.053	33	0.0725	0.1120

Critical Deflections and Radius of Curvature - Service Wind

Elevation	Appurtenance	Gov.	Deflection	Tilt	Twist	Radius of
		Load				Curvature
ft		Comb.	in	0	0	ft
200.00	Guy	33	1.700	0.1786	0.0478	40664
193.00	PR-900	33	1.948	0.1677	0.0534	29046
155.00	LNX-6514DS-VTM	33	2.557	0.0188	0.0469	10185
153.75	12.5' Sector Mounts	33	2.548	0.0231	0.0447	10511
150.00	Guy	33	2.508	0.0401	0.0379	11623
108.00	Obstruction light	33	1.346	0.1421	0.0220	18264
100.25	Guy	33	1.113	0.1179	0.0256	9198
78.00	3' grid dish	33	0.761	0.0601	0.0984	87055
50.00	Guy	33	0.458	0.0356	0.0344	48611

Maximum Tower Deflections - Design Wind

Section	Elevation	Horz.	Gov.	Tilt	Twist
No.		Deflection	Load		
	ft	in	Comb.	0	0
T1	200 - 180	15.600	2	0.8571	0.1851
T2	180 - 160	18.849	2	0.5625	0.1842
T3	160 - 140	19.962	2	0.1630	0.1616
T4	140 - 120	18.112	2	0.7529	0.1278
T5	120 - 100	13.972	2	1.1547	0.1426

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THY I	ower

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Section	Elevation	Horz.	Gov.	Tilt	Twist
No.		Deflection	Load		
	ft	in	Comb.	0	0
Т6	100 - 80	9.018	2	1.0109	0.1179
T 7	80 - 60	5.601	2	0.7038	0.2420
T8	60 - 40	3.036	2	0.5035	0.2069
Т9	40 - 20	1.788	8	0.2108	0.1333
T10	20 - 6.5	1.157	8	0.2127	0.1855
T11	6.5 - 3.25	0.424	8	0.2887	0.1767
T12	3.25 - 0	0.224	8	0.3075	0.2456

Critical Deflections and Radius of Curvature - Design Wind

Elevation	Appurtenance	Gov. Load	Deflection	Tilt	Twist	Radius of Curvature
ft		Comb.	in	0	0	ft
200.00	Guy	2	15.600	0.8571	0.1851	8046
193.00	PR-900	2	16.859	0.7929	0.1854	5747
155.00	LNX-6514DS-VTM	2	19.768	0.2342	0.1421	1585
153.75	12.5' Sector Mounts	2	19.690	0.2668	0.1382	1618
150.00	Guy	2	19.385	0.3849	0.1278	1724
108.00	Obstruction light	2	10.908	1.1157	0.1335	4346
100.25	Guy	2	9.072	1.0147	0.1170	2100
78.00	3' grid dish	2	5.313	0.6814	0.2501	8251
50.00	Guy	2	2.172	0.3450	0.1021	4196

Bolt Design Data

Section No.	Elevation	Component Type	Bolt Grade	Bolt Size	Number Of	Maximum Load	Allowable Load	Ratio Load	Allowable Ratio	Criteria
	ft	71		in	Bolts	per Bolt lb	per Bolt lb	Allowable		
T1	200	Leg	A325N	0.7500	4	6269.41	30101.40	0.208	1	Bolt Tension
T2	180	Leg	A325N	0.7500	4	9734.38	30101.40	0.323	1	Bolt Tension
T3	160	Leg	A325N	0.7500	4	4332.54	30101.40	0.144	1	Bolt Tension
T4	140	Leg	A325N	0.7500	4	2203.21	30101.40	0.073	1	Bolt Tension
T5	120	Leg	A325N	0.7500	4	4452.67	30101.40	0.148	1	Bolt Tension
Т6	100	Leg	A325N	0.7500	4	3240.93	30101.40	0.108	1	Bolt Tension
T 7	80	Leg	A325N	0.7500	4	3546.75	30101.40	0.118	1	Bolt Tension
T8	60	Leg	A325N	0.7500	4	3228.12	30101.40	0.107	1	Bolt Tension
Т9	40	Leg	A325N	0.7500	4	3393.22	30101.40	0.113	1	Bolt Tension
T10	20	Leg	A325N	0.7500	4	3350.30	30101.40	0.111	1	Bolt Tension
T11	6.5	Leg	A325N	0.7500	4	3450.01	30101.40	0.115	1	Bolt Tension

tnxTower

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Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P lb	øP _{allow} lb	% Capacity	Pass Fail
No. T1	200 - 180	Leg	ROHN 2.5 STD	3	-32470.00	66951.50	48.5	Pass
11	200 - 180	Diagonal	P1x.179	34	-32470.00 -3815.26	15122.60	48.5 25.2	Pass
		Horizontal	P1x.179	37	683.01	20697.90	3.3	
		Top Girt	5x3/8	4	-1969.76	13768.50	3.3 14.3	Pass Pass
				7	-1969.76 -664.83	18453.00		
		Bottom Girt Guy A@200	P1x.179 7/16	466	6831.71	12480.00	3.6 54.7	Pass
			7/16 7/16		6828.52		54.7 54.7	Pass
		Guy B@200		461		12480.00		Pass
		Guy C@200	7/16	454	6831.51	12480.00	54.7	Pass
		Torque Arm Top@200	L3x3x1/4	457	5176.52	46656.00	11.1	Pass
		Torque Arm Bottom@200	L3x3x1/4	459	-7896.39	41467.20	19.0	Pass
T2	180 - 160	Leg	ROHN 2.5 STD	45	-40437.60	67228.10	60.1	Pas
		Diagonal	P1x.179	82	-2687.74	15198.50	17.7	Pass
		Horizontal	P1x.179	56	-700.40	18453.00	3.8	Pass
		Top Girt	P1x.179	47	-700.40	18453.00	3.8	Pass
		Bottom Girt	P1x.179	50	-700.40	18453.00	3.8	Pass
T3	160 - 140	Leg	ROHN 2.5 STD	87	-41740.70	66607.40	62.7	Pas
		Diagonal	P1x.179	113	-10470.90	15198.50	68.9	Pas
		Horizontal	P1x.179	109	6396.08	20697.90	30.9	Pas
		Top Girt	P1x.179	89	-722.97	18453.00	3.9	Pas
		Bottom Girt	P1x.179	92	-722.97	18453.00	3.9	Pas
		Guy A@150	7/16	484	10347.30	12480.00	82.9	Pas
		Guy B@150	7/16	479	10112.90	12480.00	81.0	Pas
		Guy C@150	7/16	472	10179.50	12480.00	81.6	Pas
		Torque Arm Top@150	L3x3x1/4	486	9062.17	46656.00	19.4	Pas
		Torque Arm Bottom@150	L3x3x1/4	477	-11374.50	41632.70	27.3	Pas
T4	140 - 120	Leg	ROHN 2.5 STD	129	-41742.60	66607.20	62.7	Pas
		Diagonal	P1x.179	137	-4696.11	15198.50	30.9	Pas
		Horizontal	P1x.179	157	813.05	20697.90	3.9	Pas
		Top Girt	P1x.179	131	-723.00	18453.00	3.9	Pas
		Bottom Girt	P1x.179	134	1250.10	20697.90	6.0	Pas
T5	120 - 100	Leg	ROHN 2.5 STD	171	-53432.00	66785.10	80.0	Pas
		Diagonal	P1x.179	186	-6677.58	15198.50	43.9	Pas
		Horizontal	P1x.179	194	-925.47	18453.00	5.0	Pas
		Top Girt	P1x.179	173	1173.73	20697.90	5.7	Pas
		Bottom Girt	P1x.179	175	-4271.98	18453.00	23.2	Pas
		Guy A@100.25	7/16	502	7552.46	12480.00	60.5	Pas
		Guy B@100.25	7/16	496	7485.98	12480.00	60.0	Pas
		Guy C@100.25	7/16	491	7550.34	12480.00	60.5	Pass
		Torque Arm Top@100.25	L3x3x1/4	492	7545.90	46656.00	16.2	Pas
		Torque Arm Bottom@100.25	L3x3x1/4	500	-5635.54	38235.20	14.7	Pas
T6	100 - 80	Leg	ROHN 2.5 STD	213	-53434.00	66723.10	80.1	Pas
		Diagonal	P1x.179	251	-7550.56	15198.50	49.7	Pass
		Horizontal	P1x.179	247	2175.23	20697.90	10.5	Pass
		Top Girt	P1x.179	215	2922.17	20697.90	14.1	Pass
		Bottom Girt	P1x.179	218	-925.50	18453.00	5.0	Pass
T7	80 - 60	Leg	ROHN 2.5 STD	255	-42561.00	66076.80	64.4	Pas
		Diagonal	P1x.179	264	-2472.73	15198.50	16.3	Pass
		Horizontal	P1x.179	291	847.02	20697.90	4.1	Pass
		Top Girt	P1x.179	257	-737.18	18453.00	4.0	Pas
		Bottom Girt	P1x.179	260	-737.18	18453.00	4.0	Pass
T8	60 - 40	Leg	ROHN 2.5 STD	297	-48859.30	66351.90	73.6	Pas
		Diagonal	P1x.179	318	-7920.69	15198.50	52.1	Pass

tnxTower

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Verizon Wireless	AMA

Section	Elevation	Component	Size	Critical	P	$ olimits P_{allow} $	%	Pass
No.	ft	Туре		Element	lb	lb	Capacity	Fail
		Horizontal	P1x.179	319	4594.58	20697.90	22.2	Pass
		Top Girt	P1x.179	299	-846.27	18453.00	4.6	Pass
		Bottom Girt	P1x.179	302	-846.27	18453.00	4.6	Pass
		Guy A@50	7/16	520	4731.48	12480.00	37.9	Pass
		Guy B@50	7/16	514	4497.27	12480.00	36.0	Pass
		Guy C@50	7/16	508	4542.42	12480.00	36.4	Pass
		Torque Arm Top@50	L3x3x1/4	511	4861.29	46656.00	10.4	Pass
		Torque Arm Bottom@50	L3x3x1/4	524	-3568.07	41632.70	8.6	Pass
Т9	40 - 20	Leg	ROHN 2.5 STD	339	-40718.60	64232.30	63.4	Pass
17	40 - 20	Diagonal	P1x.179	372	-3291.48	15198.50	21.7	Pass
		Horizontal	P1x.179	356	975.61	20697.90	4.7	Pass
		Top Girt	P1x.179	341	858.65	20697.90	4.1	Pass
		Bottom Girt	P1x.179	344	-705.27	18453.00	3.8	Pass
T10	20 - 6.5	Leg	ROHN 2.5 STD	381	-40722.10	64232.20	63.4	Pass
110	20 - 0.5	Diagonal	P1x.179	401	-2015.98	15198.50	13.3	Pass
		Horizontal	P1x.179	398	923.18	20697.90	4.5	Pass
		Top Girt	P1x.179	383	-705.33	18453.00	3.8	Pass
					1685.23			
T11	65 235	Bottom Girt	P1x.179	386		20697.90	8.1	Pass
T11	6.5 - 3.25	Leg	ROHN 2.5 STD	411	-41400.10	64187.50	64.5	Pass
		Diagonal	P1x.179	418	-1357.37	16585.70	8.2	Pass
		Horizontal	P1x.179	413	3895.58	20697.90	18.8	Pass
T113	2.25 0	Bottom Girt	P1x.179	415	909.30	20697.90	4.4	Pass
T12	3.25 - 0	Leg	ROHN 2.5 STD	423	-40831.20	64560.60	63.2	Pass
		Diagonal	P1x.179	433	-8553.05	20626.60	41.5	Pass
		Horizontal	4x3/8	437	6889.15	48600.00	14.2	Pass
		Top Girt	4x3/8	425	2352.30	48600.00	4.8	Pass
							Summary	_
						Leg (T6)	80.1	Pass
						Diagonal (T3)	68.9	Pass
						Horizontal	30.9	Pass
						(T3)		
						Top Girt	14.3	Pass
						(T1) Bottom Girt	23.2	Pass
							23.2	rass
						(T5)	82.9	Pass
						Guy A (T3)	82.9 81.0	
						Guy B (T3)		Pass
						Guy C (T3)	81.6	Pass
						Torque Arm Top (T3)	19.4	Pass
						Torque Arm Bottom (T3)	27.3	Pass
						Bolt Checks	32.3	Pass
						RATING =	82.9	Pass

Program Version 8.1.1.0 - 6/3/2021 File:C:/Users/User/Documents/APT/Rob/Verizon Wireless/CT/CT141_13230 Naugatuck CT Relo/CT141_13230 Naugatuck CT Relo.eri





Paul J. Ford and Company 250 East Broad Street Suite 600 Columbus, OH 43215 (614) 221-6679 PJFmount@pauliford.com

Post-Mod Antenna Mount Analysis Report and PMI Requirements

Mount Fix

SMART Tool Project #: 10094053

Paul J. Ford Project #: 22721-0344.002.8191

Maser Consulting Project #: 21781066

September 8, 2021

Site Information

Site ID:

468186-VZW / NAUGATUCK CT RELO

Site Name: Carrier Name: NAUGATUCK CT RELO Verizon Wireless

Address:

37 Peach Orchard Rd

Prospect, Connecticut 06712, New Haven

County

Latitude:

41.518611°

Longitude:

-73.016667°

Structure Information

Tower Type:

200-Ft Guyed

Mount Type:

12.50-Ft Sector Frame

FUZE ID # 16486414

Analysis Results

12.50-Ft Sector Frame: 68.3% 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: Jacob Mengelkamp



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, 16486414, dated August 4, 2021			
Previous Mount Analysis Report	Paul J. Ford, Project # 22721-0344.001.8190, dated August 4, 2021			
Proposed Mount Modification	Paul J. Ford, Project # 22721-0344.002.8191, dated August 12, 2021			
Mount Mapping Report	Hudson Design Group, LLC., Project # 468186, dated July 20, 2021			

Analysis Criteria:

Codes and	Standards:	ANSI/TIA-222-H

Wind Parameters: Basic Wind Speed (Ultimate 3-sec. Gust), VULT: 11	118 mph
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Ice Wind Speed (3-sec. Gust): 50 mph Design Ice Thickness: 1.00 in Risk Category: Ш С Exposure Category: Topographic Category:

Topographic Feature Considered: Flat Topped Ridge

Topographic Method: Method 2 Ground Elevation Factor, Ke: 0.972

Seismic Parameters: S_S: 0.196 S₁: 0.054

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

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

RISA-3D (V17.0.3) Analysis Software:

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	
		6	Commscope	NHH-65B-R2B		
153.75 ±	155.00		3	Commscope	BSAMNT-SBS-1-2	
		3	Samsung	MT6407-77A	Added	
		3	Samsung	RF4439d-25A	Added	
		3	Samsung	RF4440d-13A		
		1	Raycap	OVP-12*		
		3	Andrew	LNX-6514DS-VTM	Retained	

^{*}Equipment is to be flush mounted directly to Guyed tower. It is not mounted on the Sector Frame mounts and is not included in this mount analysis.

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

Model Number	Ports	AKA
RHSDC-1064-PF-48	2	OVP-2
RC3DC-3315-PF-48	6	OVP-6
RC3DC-3300-PF-48	6	OVP-6
RC3DC-4750-PF-48	6	OVP-6
RHSDC-6627-PF-48	12	OVP-12
RHSDC-6600-PF-48	12	OVP-12

Standard Conditions:

- 1. All engineering services are performed on the basis that the information provided to Paul J. Ford 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 Paul J. Ford 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 PJF, the mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer's specifications.

- 4. All member connections are assumed to have been designed to meet or exceed the load carrying capacity of the connected member unless otherwise specified in this report.
- 5. The mount was checked up to, and including, the bolts that fasten it to the mount collar/attachment and threaded rod connections in collar members if applicable. Local deformation and interaction between the mount collar/attachment and the supporting tower structure are outside the scope of this analysis.
- 6. All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. Paul J. Ford is not responsible for the conclusion, opinions, and recommendations made by others based on the information supplied.
- 7. Structural Steel Grades have been assumed as follows, if applicable, unless otherwise noted in this analysis:

Channel, Solid Round, Angle, Plate
 HSS (Rectangular)
 Pipe
 Threaded Rod
 Bolts
 ASTM A36 (Gr. 36)
 ASTM A53 (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 Paul J. Ford.

Analysis Results:

Component	Utilization %	Pass/Fail
Face Horizontals	68.3%	Pass
Standoff Members	41.1%	Pass
Tie Backs	31.3%	Pass
Bracing Members	29.7%	Pass
Mount Pipes	55.3%	Pass
Mount to Tower Connection	42.1%	Pass

|--|

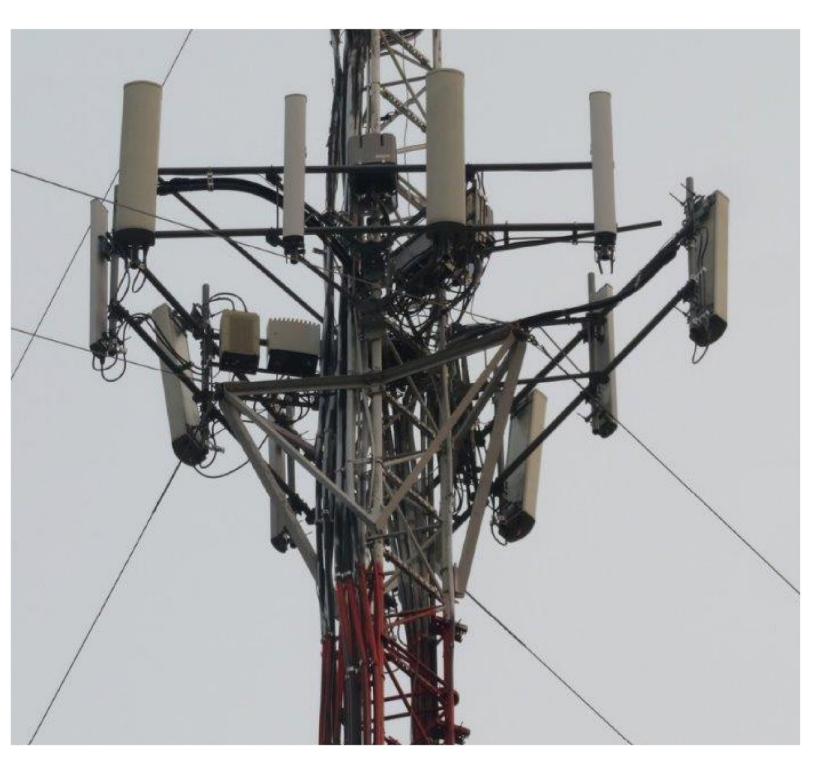
Recommendation:

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



V4.0 Updated on 3-31-2021



| Antenna Mount Mapping Form (PATENT PENDING) | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268 | 1063268

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Please insert the sketches of the antenna mount from the "Sketches" tab with dimensions and members here.

	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" STD. PIPE X 84" LONG	64.00	4.00		2" STD. PIPE X 84" LONG	64.00	4.00	
A2	2" STD. PIPE X 84" LONG	64.00	52.00		2" STD. PIPE X 84" LONG	64.00	52.00	
A3	2" STD. PIPE X 84" LONG	64.00	98.00	C3	2" STD. PIPE X 84" LONG	64.00	98.00	
A4	2" STD. PIPE X 84" LONG	64.00	146.00	C4	2" STD. PIPE X 84" LONG	64.00	146.00	
A5				C5				
A6				C6				
B1	2" STD. PIPE X 84" LONG	64.00	4.00	D1				
B2	2" STD. PIPE X 84" LONG	64.00	52.00	D2				
B3	2" STD. PIPE X 84" LONG	64.00	98.00	D3				
B4	2" STD. PIPE X 84" LONG	64.00	146.00	D4				
B5				D5				
B6				D6				
Distance between bottom rail and mount CL elevation (dim d). Unit is inches. See 'Mount Elev Ref' tab for details.							16.00	
Distance from top of bottom support rail to lowest tip of ant./eqpt. 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.):							2.1	
Please enter additional infomation or comments below.								
Tower Face Width at Mount Elev. (ft.): 2.25 Tower Leg Size or Pole Shaft Diameter at Mount Elev. (in.):							3	
For T-Arm:	For T-Arms/Platforms on monopoles, report the weld size from the main standoff to the plate bolting into the collar mount.							

SECTOR B	Sector C
LEG B	LEG C
SECTOR A LEG A	
	Horizontal Offset "h"

히	Antio B	Ant2a Ant2a	Antso 5	Ant4a	Antsa
45	Antıı g	Antzы 🕏	Anta⊾ ≜	Antab ಕ್ರ	Antsь
<u>.</u>	p _{3c}) ye	å	35C	
				<u>. </u>	
<u>C1</u>	Antic C2	Ant2c	Ant3c	Ant4c	Antsc
	C		_		
	-	C4	25		_
	Antenn	a Layout (Lo	oking Out Fr	om Tower)	

	Enter antenn	a model.	If not labe	led, enter "	'Unknown'	٠.	Mountin [Units are incl		Photos of antennas	
Ants. Items	Antenna Models if Known	Width (in.)	Depth (in.)	Height (în.)	Coax Size and Qty		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}										
Ant _{1b}	HBX-6517DS-VTM	7.00	4.00	75.00		154.167	43.00	5.50	30.00	14,114
Ant _{1c}										
Ant _{za}										
Ant _{2b}	UNKNOWN	12.00	8.00	73.00		154.333	41.00	13.00	30.00	15,116
Ant _{2c}										
Ant₃ _a			1							
Ant _{3b}	HBX-6517DS-VTM	7.00	4.00	75.00		154.167	43.00	5.50	30.00	16,114
Ant _{3c}										
Ant _{4a}		40.00				4=4.000		40.00		47.440
Ant _{4b}	UNKNOWN	12.00	8.00	73.00		154.333	41.00	10.00	30.00	17,116
Ant _{4c}										
Ant _{5a} Ant _{5b}										
Ant _{5c}										
Ant on										
Standoff										
Ant on										
Standoff										
Ant on Tower										
Ant on										
Tower										

						1					C					
	nt Azimutl for Each S		e)	Tower Leg Azi for Each		Ant _{1a}					Sector E					
Sector A:	30.00	_	Leg A:	65.00	Deg	Ant _{1b}	HBX-6517DS-VTM	7.00	4.00	75.00		154.167	43.00	5.50	150.00	22,114
Sector B:	150.00	_	Leg B:	185.00	Deg	Ant _{1c}										
Sector C:	280.00		Leg C:	305.00	Deg	Ant _{2a}										
Sector D:			Leg D:	•	Deg	Ant _{2b}	UNKNOWN	12.00	8.00	73.00		154.333	41.00	13.00	150.00	24,114
		_	oing Fac	ility Information		Ant _{2c}										
Location:	305.00			N/A Good condition.		Ant _{3a}	LIDY CEATOC VINA	7.00	4.00	75.00		154 167	42.00	F F0	150.00	26 114
Climbing		osion Typ Access:	Je:	N/A		Ant _{3b} Ant _{3c}	HBX-6517DS-VTM	7.00	4.00	75.00		154.167	43.00	5.50	150.00	26,114
Facility		ndition:		Missing safety cable		Ant _{4a}										
						Ant _{4b}	UNKNOWN	12.00	8.00	73.00		154.333	41.00	10.00	150.00	26,116
						Ant _{4c}										
						Ant _{5a}										
						Ant _{5b}										
						Ant _{5c}										
						Standoff										
						Ant on Standoff										
Dies	oo incort o	nhata a	f tha ma	ount contorling maga	roment here	Ant on										
Plea	ise insert a	pnoto o	i the mo	ount centerline measi	rement nere.	Tower Ant on										
						Tower										
											Sector (
						Ant _{1a}	URV CE17DC VITA	7.00	4.00	75.00		154 107	42.00	E E0	200.00	22.114
						Ant _{1b}	HBX-6517DS-VTM	7.00	4.00	75.00		154.167	43.00	5.50	280.00	32,114
						Ant _{2a}										
						Ant _{2b}	UNKNOWN	12.00	8.00	73.00		154.333	41.00	13.00	280.00	34,116
						Ant _{2c}										
	a		\prod_{i}	n		Ant _{3a}										
	ן ו			Ü		Ant _{3b}	HBX-6517DS-VTM	7.00	4.00	75.00		154.167	43.00	5.50	280.00	35,114
]						Ant _{4a}										
1	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		TŲ	THE OF EQUIPMENT	-	Ant _{4b}	UNKNOWN	12.00	8.00	73.00		154.333	41.00	10.00	280.00	36,116
						Ant _{4c}										
				l	DESTANCE FROM TOP OF MAIN PLATFORM MEMBER TO LOWEST TIP OF ANTL/EQFT. OF CARRER ABOVE. (N/A IF > 10 FT.)	Ant _{5a}										
٦			Ш		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Ant _{5b}										
디		,	₩.	ļ===ţ	DISTANCE FROM TOP OF MAIN	Ant _{5c} Ant on										
EXISTING PLATFORM—				TIP OF EQUIPMENT	DISTANCE FROM TOP OF MAIN PLATFORM MEMBER TO HICHEST TIP OF ANT./EQFT. OF CARRIER BELOW. (N/A IF > 10 FT.)	Standoff										
Γ	<u> </u>	4///	1114	1 1		Ant on Standoff										
						Ant on										
d			2	P		Tower Ant on										
L	J 4	- <u>Ш</u>	Ш"	J W		Tower										
		FOR PLAT	FORMS	-							Sector E				1	
				1		Ant _{1a}										
1	_					Ant _{1c}										
4		##	=4;	TIP OF EQUIPMENT	_	Ant _{2a}										
			/			Ant _{2b}										
Г	7 [- k	\leftarrow	1 -	DISTANCE FROM TOP OF BOTTOM SUPPORT REL TO LOWEST TIP OF ANTI/BUPT OF CARRIER ABOVE. (N/A IF > 10 FT.)	Ant _{2c}										
-				#	(N/A IF > 10 FT.)	Ant _{3a}										
						Ant _{3b}										
EXISTING SECTOR FIRE		7			DISTANCE FROM TOP OF BOTTOM SUPPORT RAIL TO HIGHEST TIP OF	Ant _{4a}										
MOL	UNT	K	$\overline{}$	-	DISTANCE FROM TOP OF BOTTOM SUPPORT RAL TO MICHEST TIP OF ANT,/BQPT. OF CARRIER BELOW. (N/A IF > 10 FT.)	Ant _{4b}										
La	1 [4	1	TIP OF EQUIPMENT	L	Ant _{4c}										
q	-		= }	-		Ant _{5a}										
				<u>L</u> ,		Ant _{5b}										
Ļ	ı l	-	/ L	j Ļ		Ant on										
F T /	/nl-+f		1			Standoff										
				cord the weld size fron llar. See below for refe		Ant on Standoff										
11	>				//	Ant on										
		_			\checkmark	Ant on										
	_	<u> </u>			7	Tower										
//	M	Ţ		REPORT WE STANDOFF INTO COLLA	LD SIZE FROM TO PLATE BOLTING MR MOUNT.											

	Observed Safety and Structural Issues During the Mount Mapping							
Issue #	Description of Issue	Photo #						
1	NO SAFETY CLIMB CABLE VISABLE	18,25,34						
2								
3								
4								
5								
6								
7								
8								

	Observed Obstructions to Tower Lighting System								
If the tower lighting system is being obst	the tower lighting system is being obstructed by the carrier's equipment (for example: a light nested by the antennas), please provide photos and fill in the information below.								
Description of Obstruction:		·							
Type of Light:	ght: Photo # Additional Comments:								
Lighting Technology:		Photo #							
Elevation (AGL) at base of light (Ft.):		Photo #							
Is a service loop available?	Is a service loop available? Photo #								
Is beacon installed on an extension?	Is beacon installed on an extension? Photo #								

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.

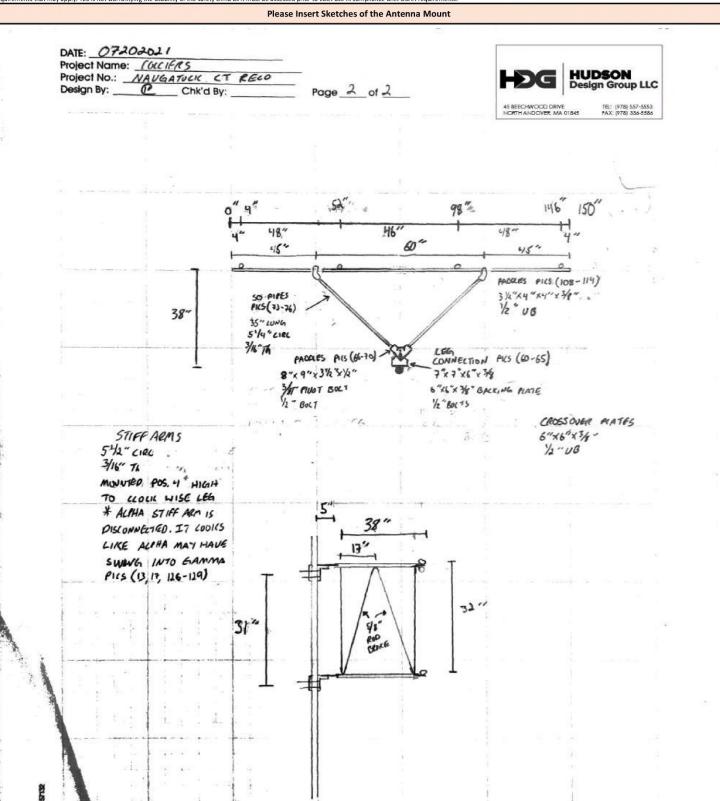
Standard Conditions

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)									
Antenna Mount Mapping Form (FATENT FENDING)									
Tower Owner:	Tower Owner: OTHER Mapping Date: 7/20/2021								
Site Name:	NAUGATUCK CT RELO	Tower Type:	Guyed	Tower					
Site Number or ID: 468186 Tower Height (Ft.): 200									
Mapping Contractor: HUDSON DESIGN GROUP, LLC. Mount Elevation (Ft.): 153.75									

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Please Insert Sketches of the Antenna Mount, cont'd 6" X 6" X 3/8" THK.— CROSSOVER PLATE 0 0 1/2"Ø U-BOLTS (TYP.) CROSSOVER PLATE DETAIL

V4.0 Updated on 3-31-2021



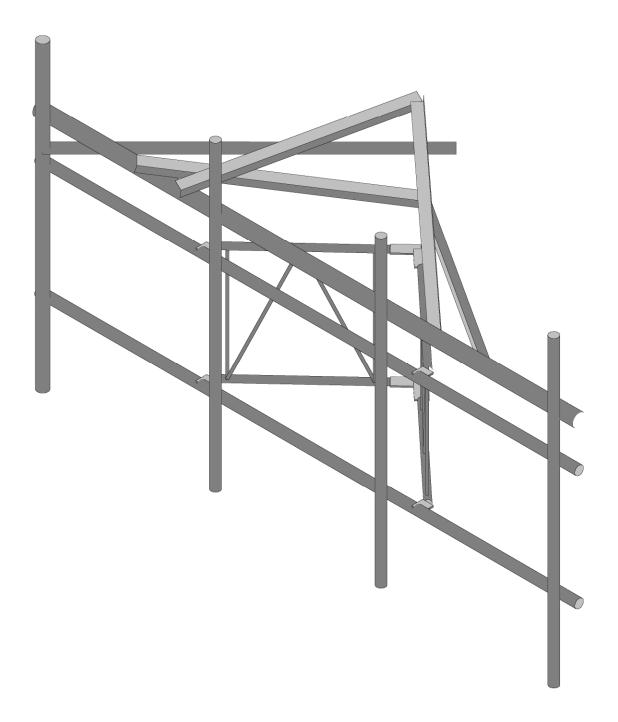
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	Please enter information about transmission lines.								
Transmission Line Type (Pick from List)	Quantity	Diameter/Size (in.) Please add a description if using type "Other".	Located on Tower Face	Photo #	Additional Comments				
	All Sectors								
Coax	6	1-5/8"Ø	C-A	2,43,46	ATTACHED TO TOWER LEG A				
Hybrid	2	1-1/2"Ø	C-A	2,43,46	ATTACHED TO TOWER LEG A				

				Please e	nter infor	mation about additional RF equipment.		
Equipment Type (Pick from List)	Quantity	Model Numbers if Known	Width (in.)	Depth (in.)	Height (in.)	Location	Photo #	Additional Comments
, i						Sector A	•	
RRU	1	9442 RRH2X40-AWS	8.00	5.00	12.00	MOUNTED TO STANDOFF	118,130	
RRU	1	700 MRRH	16.00	10.00	16.00	MOUNTED TO STANDOFF	130,144	
OVP	1	RC3DC-3315-PF-48	15.00	10.00	28.00	MOUNTED TO TOWER LEG	133,134	2-1/8"Ø X 24" LONG PIPE, U=54"
						Sector B		
RRU	1	9442 RRH2X40-AWS	8.00	5.00	12.00	MOUNTED TO STANDOFF	118,123	
RRU	1	700 MRRH	16.00	10.00	16.00	MOUNTED TO STANDOFF	123,144	
	1	RC3DC-3315-PF-48	15.00	10.00	28.00	MOUNTED TO TOWER LEG	25,134	2-1/8"Ø X 24" LONG PIPE, U=54"
0.511		0440 00110110	0.00	F 00	42.00	Sector C	145 157	
	1	9442 RRH2X40-AWS	8.00	5.00	12.00	MOUNTED TO STANDOFF	118,127	
RRU	1	700 MRRH	16.00	10.00	16.00	MOUNTED TO STANDOFF	127,144	

Equipment Type (Pick from List)	Quantity	Model Numbers if Known	Width (in.)	Depth (in.)	Height (in.)	Location	Photo #	Additional Comments	
Sector D									
				•		Ground Equipment			



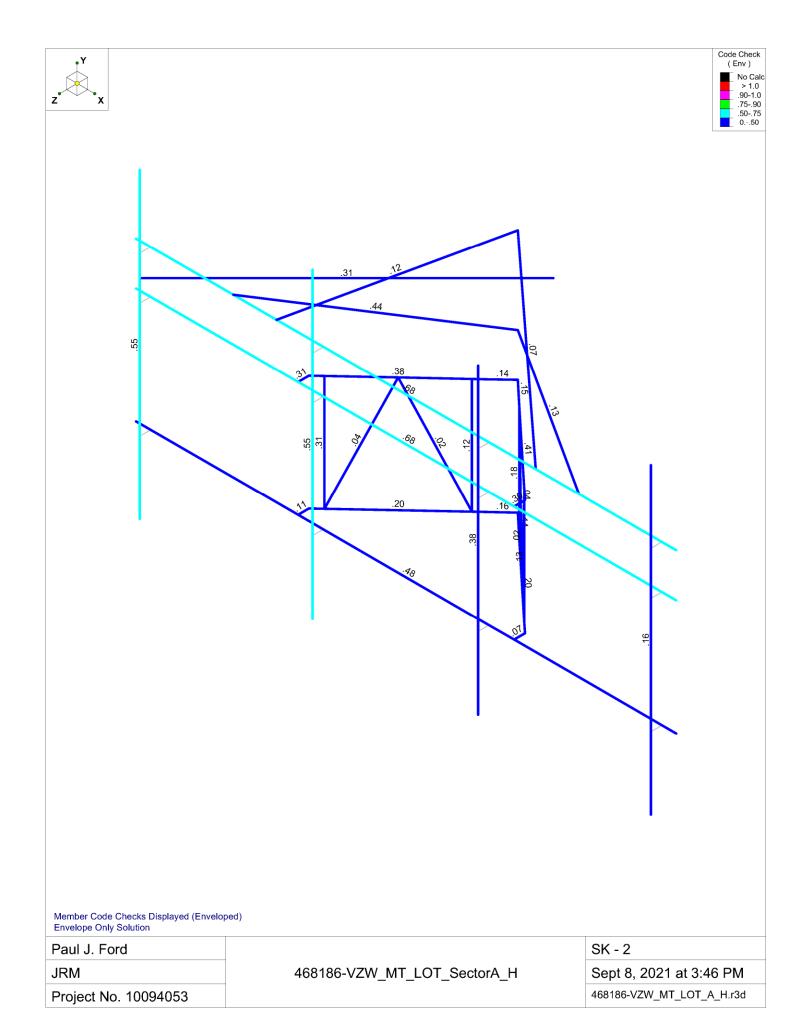


Envelope Only Solution

Paul J. Ford
JRM
Project No. 10094053

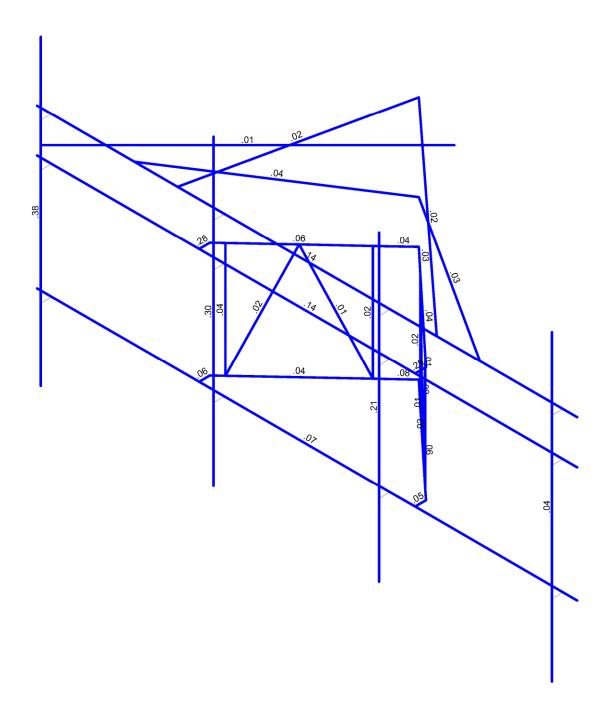
468186-VZW_MT_LOT_SectorA_H

SK - 1
Sept 8, 2021 at 3:46 PM
468186-VZW MT LOT A H r3d









Member Shear Checks Displayed (Enveloped) Envelope Only Solution

Paul J. Ford		SK - 3
JRM	468186-VZW_MT_LOT_SectorA_H	Sept 8, 2021 at 3:46 PM
Project No. 10094053		468186-VZW_MT_LOT_A_H.r3d



: Paul J. Ford : JRM

: Project No. 10094053 : 468186-VZW_MT_LOT_SectorA_H

Sept 8, 2021 3:34 PM Checked By:_

(Global) Model Settings

Display Sections for Member Calcs	5
Max Internal Sections for Member Calcs	97
Include Shear Deformation?	Yes
Increase Nailing Capacity for Wind?	Yes
Include Warping?	Yes
Trans Load Btwn Intersecting Wood Wall?	Yes
Area Load Mesh (in^2)	144
Merge Tolerance (in)	.12
P-Delta Analysis Tolerance	0.50%
Include P-Delta for Walls?	Yes
Automatically Iterate Stiffness for Walls?	No
Max Iterations for Wall Stiffness	3
Gravity Acceleration (ft/sec^2)	386.4
Wall Mesh Size (in)	12
Eigensolution Convergence Tol. (1.E-)	4
Vertical Axis	Υ
Global Member Orientation Plane	XZ
Static Solver	Sparse Accelerated
Dynamic Solver	Accelerated Solver

Hot Rolled Steel Code	AISC 15th(360-16): LRFD
Adjust Stiffness?	Yes(Iterative)
RISAConnection Code	None
Cold Formed Steel Code	None
Wood Code	None
Wood Temperature	< 100F
Concrete Code	None
Masonry Code	None
Aluminum Code	None - Building
Stainless Steel Code	None

Number of Shear Regions	4
Region Spacing Increment (in)	4
Biaxial Column Method	Exact Integration
Parme Beta Factor (PCA)	.65
Concrete Stress Block	Rectangular
Use Cracked Sections?	No
Use Cracked Sections Slab?	Yes
Bad Framing Warnings?	No
Unused Force Warnings?	No
Min 1 Bar Diam. Spacing?	No
Concrete Rebar Set	REBAR_SET_ASTMA615
Min % Steel for Column	1
Max % Steel for Column	0



Company : Paul J. Ford
Designer : JRM
Job Number : Project No. 10094053
Model Name : 468186-VZW_MT_LOT_SectorA_H

Sept 8, 2021 3:34 PM Checked By:_

(Global) Model Settings, Continued

Seismic Code	None
Seismic Base Elevation (ft)	Not Entered
Add Base Weight?	No
Ct X	0
Ct Z	0
T X (sec)	Not Entered
TZ (sec)	Not Entered
RX	1
RZ	1

Hot Rolled Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm (/1	Density[k/ft^3]	Yield[ksi]	Ry	Fu[ksi]	Rt
1	A53 Gr. B (35 ksi)	29000	11154	.3	.65	.49	35	1.5	60	1.2
2	A500 Gr. B (46ksi)	29000	11154	.3	.65	.49	46	1.5	58	1.2
3	A36 (36ksi)	29000	11154	.3	.65	.49	36	1.5	58	1.2

Member Primary Data

	Label	I Joint	J Joint	K Joint R	Rotate	Section/Shape	Type I	Design Lis	t Material	Design Rules
1	MP3A	A4	A1			PIPE 2.0	Colu	Pipe	A53 Gr. B (Typical
2	MP2A	A12	A9			PIPE_2.0	Colu	Pipe	A53 Gr. B (Typical
3	R1	D2	N47A		90	PL3/8x3	None	None	A36 (36ksi)	Typical
4	R2	D1	N48A		90	PL3/8x3	None	None	A36 (36ksi)	Typical
5	MP1A	A16	A13			PIPE 2.0	Colu	Pipe	A53 Gr. B (Typical
6	P1	N45	C2		90	PL3/8x3	None	None	A36 (36ksi)	Typical
7	P2	N46	C1		90	PL3/8x3	None	None	A36 (36ksi)	Typical
8	M29	A3	N50			RIGID	None	None	RIGID	Typical
9	M30	A2	N49			RIGID	None	None	RIGID	Typical
10	M33	A11	N54			RIGID	None	None	RIGID	Typical
11	M34	A10	N53			RIGID	None	None	RIGID	Typical
12	M35	A15	N56			RIGID	None	None	RIGID	Typical
13	M36	A14	N55			RIGID	None	None	RIGID	Typical
14	MP4A	N82	N79A			PIPE_2.5	Colu	Pipe	A53 Gr. B (Typical
15	M51A	N81	N84			RIGID	None	None	RIGID	Typical
16	M52	N80A	N83			RIGID	None	None	RIGID	Typical
17	M37	В3	B4			PIPE 2.0	None	None	A53 Gr. B (Typical
18	M38	B1	B2			PIPE 2.0	None	None	A53 Gr. B (Typical
19	M26	N47A	N45			PIPE 1.25	Beam	Pipe	A53 Gr. B (Typical
20	M27	N48A	N46			PIPE 1.25	Beam	Pipe	A53 Gr. B (Typical
21	M22	N43	N44			SR 0.625	None	None	A36 (36ksi)	Typical
22	M23	N44	N41			SR 0.625	None	None	A36 (36ksi)	Typical
23	M24	N41	N48B			SR 0.625	None	None	A36 (36ksi)	Typical
24	M25	N48B	N47B			SR 0.625	None	None	A36 (36ksi)	Typical
25	M26A	D2	N51		90	PL3/8x3	None	None	A36 (36ksi)	Typical
26	M27A	D1	N52		90	PL3/8x3	None	None	A36 (36ksi)	Typical
27	M28	N49A	N46A		90	PL3/8x3	None	None	A36 (36ksi)	Typical
28	M29A	N50A	N45A		90	PL3/8x3	None	None	A36 (36ksi)	Typical
29	M30A	N51	N49A			PIPE 1.25	Beam	Pipe	A53 Gr. B (
30	M31	N52	N50A			PIPE 1.25	Beam	Pipe	A53 Gr. B (Typical
31	M32	N56A	N57			SR 0.625	None	None	A36 (36ksi)	Typical
32	M33A	N56A	N56B			SR 0.625	None	None	A36 (36ksi)	Typical
33	M34A	N56B	N53A			SR 0.625	None	None	A36 (36ksi)	Typical
34	M35A	N54A				SR 0.625	None	None	A36 (36ksi)	Typical
35	M35B	N55B	N58			PIPE 2.0	None	None	A53 Gr. B (
36	M43	N72A	N77			RIGID	None	None	RIGID	Typical
37	M44	N73	N78			RIGID	None	None	RIGID	Typical



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Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate	Section/Shape	Type	Design List	Material	Design Rules
38	M45	N74	N79			RIGID	None	None	RIGID	Typical
39	M46	N80	N81A			RIGID	None	None	RIGID	Typical
40	M47	N75	N76			PIPE 3.0	None	None	A53 Gr. B (Typical
41	M48	N82A	N83A			L2.5x2.5x4	None	None	A36 (36ksi)	Typical
42	M49	N84A	N83A		270	L2.5x2.5x4	None	None	A36 (36ksi)	Typical
43	M43A	N72	N73A			L2.5x2.5x4	None	None	A36 (36ksi)	Typical
44	M44A	N74A	N73A			L2.5x2.5x4	None	None	A36 (36ksi)	Typical

Member Advanced Data

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only F	Physica	IDefl RAnalysi	Inactive	Seismic Design Rules
1	MP3A						Yes	** NA **		None
2	MP2A						Yes	** NA **		None
3	R1						Yes	** NA **		None
4	R2						Yes	** NA **		None
5	MP1A						Yes	** NA **		None
6	P1		BenPIN				Yes	** NA **		None
7	P2		BenPIN				Yes	** NA **		None
8	M29						Yes	** NA **	Exclude	None
9	M30						Yes	** NA **	Exclude	None
10	M33						Yes	** NA **	Exclude	None
11	M34						Yes	** NA **	Exclude	None
12	M35						Yes	** NA **	Exclude	None
13	M36						Yes	** NA **	Exclude	None
14	MP4A						Yes	** NA **		None
15	M51A						Yes	** NA **	Exclude	None
16	M52						Yes	** NA **	Exclude	None
17	M37						Yes	** NA **		None
18	M38						Yes	** NA **		None
19	M26						Yes			None
20	M27						Yes			None
21	M22		BenPIN				Yes	** NA **		None
22	M23	BenPIN	BenPIN			Tension	Yes	** NA **		None
23	M24	BenPIN	BenPIN			Tension	Yes	** NA **		None
24	M25	BenPIN	BenPIN				Yes	** NA **		None
25	M26A						Yes	** NA **		None
26	M27A						Yes	** NA **		None
27	M28		BenPIN				Yes	** NA **		None
28	M29A		BenPIN				Yes	** NA **		None
29	M30A						Yes			None
30	M31						Yes			None
31	M32		BenPIN				Yes	** NA **		None
32	M33A		BenPIN			Tension	Yes	** NA **		None
33	M34A	BenPIN				Tension	Yes	** NA **		None
34	M35A	BenPIN	BenPIN				Yes	** NA **		None
35	M35B	BenPIN					Yes	** NA **		None
36	M43						Yes	** NA **	Exclude	None
37	M44						Yes	** NA **	Exclude	None
38	M45						Yes	** NA **	Exclude	None
39	M46						Yes	** NA **	Exclude	None
40	M47						Yes	** NA **		None
41	M48	BenPIN					Yes	** NA **		None
42	M49	BenPIN					Yes	** NA **		None
43	M43A	BenPIN					Yes	** NA **		None
44	M44A	BenPIN					Yes	** NA **		None



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Hot Rolled Steel Design Parameters

	Label	Shape	Length[ft]	Lbyy[ft]	Lbzz[ft]		Lcomp bot[ft] L-torqu	Куу	Kzz	Cb	Function
1	MP3A	PIPE 2.0	7			Lbyy					Lateral
2	MP2A	PIPE_2.0	7			Lbyy					Lateral
3	R1	PL3/8x3	.5			Lbyy					Lateral
4	R2	PL3/8x3	.5			Lbyy					Lateral
5	MP1A	PIPE 2.0	7			Lbyy					Lateral
6	P1	PL3/8x3	.25			Lbyy					Lateral
7	P2	PL3/8x3	.25			Lbyy					Lateral
8	MP4A	PIPE_2.5	7			Lbyy					Lateral
9	M37	PIPE 2.0	12.5								Lateral
10	M38	PIPE_2.0	12.5								Lateral
11	M26	PIPE 1.25				Lbyy					Lateral
12	M27	PIPE 1.25	2.92			Lbyy					Lateral
13	M22	SR 0.625									Lateral
14	M23	SR_0.625									Lateral
15	M24	SR 0.625	2.928								Lateral
16	M25	SR_0.625									Lateral
17	M26A	PL3/8x3	.5			Lbyy					Lateral
18	M27A	PL3/8x3	.5			Lbyy					Lateral
19	M28	PL3/8x3	.25			Lbyy					Lateral
20	M29A	PL3/8x3	.25			Lbyy					Lateral
21	M30A	PIPE 1.25	2.92			Lbyy					Lateral
22	M31	PIPE_1.25	2.92			Lbyy					Lateral
23	M32	SR 0.625	2.667								Lateral
24	M33A	SR_0.625	2.928								Lateral
25	M34A	SR 0.625	2.928								Lateral
26	M35A	SR 0.625	2.667								Lateral
27	M35B	PIPE 2.0	6.77								Lateral
28	M47	PIPE 3.0	12.5								Lateral
29	M48	L2.5x2.5x4	4.435								Lateral
30	M49	L2.5x2.5x4									Lateral
31	M43A	L2.5x2.5x4									Lateral
32	M44A	L2.5x2.5x4	4.762								Lateral

Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed	Area(Me	Surface(P
1	Antenna D	None	Ĭ		·		36		Ì	,
2	Antenna Di	None					36			
3	Antenna Wo (0 Deg)	None					36			
4	Antenna Wo (30 Deg)	None					36			
5	Antenna Wo (60 Deg)	None					36			
6	Antenna Wo (90 Deg)	None					36			
7	Antenna Wo (120 Deg)	None					36			
8	Antenna Wo (150 Deg)	None					36			
9	Antenna Wo (180 Deg)	None					36			
10	Antenna Wo (210 Deg)	None					36			
11	Antenna Wo (240 Deg)	None					36			
12	Antenna Wo (270 Deg)	None					36			
13	Antenna Wo (300 Deg)	None					36			
14	Antenna Wo (330 Deg)	None					36			
15	Antenna Wi (0 Deg)	None					36			
16	Antenna Wi (30 Deg)	None					36			
17	Antenna Wi (60 Deg)	None					36			
18	Antenna Wi (90 Deg)	None					36		_	
19	Antenna Wi (120 Deg)	None					36			



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: Project No. 10094053 : 468186-VZW_MT_LOT_SectorA_H

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Basic Load Cases (Continued)

	BLC Description	Category	X Gravity	Y Gravity	Z Gravitv	Joint	Point	Distributed	Area(Me	Surface(P
20	Antenna Wi (150 Deg)	None					36		,	
21	Antenna Wi (180 Deg)	None					36			
22	Antenna Wi (210 Deg)	None					36			
23	Antenna Wi (240 Deg)	None					36			
24	Antenna Wi (270 Deg)	None					36			
25	Antenna Wi (300 Deg)	None					36			
26	Antenna Wi (330 Deg)	None					36			
27	Antenna Wm (0 Deg)	None					36			
28	Antenna Wm (30 Deg)	None					36			
29	Antenna Wm (60 Deg)	None					36			
30	Antenna Wm (90 Deg)	None					36			
31	Antenna Wm (120 Deg)	None					36			
32	Antenna Wm (150 Deg)	None					36			
	Antenna Wm (180 Deg)	None					36			
	, ,	None					36			
	Antenna Wm (240 Deg)									
35	Antenna Wm (270 Deg)	None					36 36			
	Antenna Wm (300 Deg)	None								
37		None					36			
	Antenna Wm (330 Deg)	None		4			36			
39	Structure D	None		-1				00		
40	Structure Di	None						32		
41	Structure Wo (0 Deg)	None						64		
42	Structure Wo (30 Deg)	None						64		
43	Structure Wo (60 Deg)	None						64		
44	Structure Wo (90 Deg)	None						64		
45	Structure Wo (120 D	None						64		
46	Structure Wo (150 D	None						64		
47	Structure Wo (180 D	None						64		
48	Structure Wo (210 D	None						64		
49	Structure Wo (240 D	None						64		
50	Structure Wo (270 D	None						64		
51	Structure Wo (300 D	None						64		
52	Structure Wo (330 D	None						64		
53	Structure Wi (0 Deg)	None						64		
54	Structure Wi (30 Deg)	None						64		
55	Structure Wi (60 Deg)	None						64		
56	Structure Wi (90 Deg)	None						64		
57	Structure Wi (120 De	None						64		
58	Structure Wi (150 De	None						64		
59	Structure Wi (180 De	None None						64		
60	Structure Wi (210 De	None						64		
61	Structure Wi (240 De	None						64		
62	Structure Wi (270 De	None						64		
63	Structure Wi (300 De	None						64		
64	Structure Win (330 De	None						64		
65	Structure Wm (0 Deg)	None						64		
66		None						64		
67	Structure Wm (60 De	None						64		
68	Structure Wm (90 De	None						64		
69	Structure Wm (120 D	None						64		
70	Structure Wm (150 D	None						64		
71	Structure Wm (180 D	None						64		
72	Structure Wm (210 D	None						64		
73	Structure Wm (240 D	None						64		
74		None						64		
75	Structure Wm (300 D	None						64		
76	Structure Wm (330 D	None						64		



Company : Paul J. Ford
Designer : JRM
Job Number : Project No. 10094053
Model Name : 468186-VZW_MT_LOT_SectorA_H

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Basic Load Cases (Continued)

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed	Area(Me	Surface(P
77	Lm1	None		_			1		,	,
78	Lm2	None					1			
79	Lv1	None					1			
80	Lv2	None					1			

Load Combinations

	Description SoP	S	BLC	Fact	BLC	Fact	BLC	Fact	BLC	Fact.	.BLC	Fact.	.BLC	Fact.	BLC	Fact.	.BLC	Fact.	.BLC	Fact.	.BLC	Fact
1	1.2D+1.0Wo (0Yes Y		1	1.2				1	41	1												
2	1.2D+1.0Wo (3Yes Y	_	1	1.2				1	42	1												
3	1.2D+1.0Wo (6Yes Y		1	1.2			5	1	43	<u> </u>												
4	1.2D+1.0Wo (9Yes Y	_	1			1.2		1	44	1												
5	1.2D+1.0Wo (1Yes Y		1	1.2			7	1	45	亡												
6	1.2D+1.0Wo (1Yes Y		1			1.2		1	46	1												
7	1.2D+1.0Wo (1Yes Y		1	1.2			9	1	47	亡												
8	1.2D+1.0Wo (2Yes Y		1	1.2				1	48	1												
9	1.2D+1.0Wo (2Yes Y		1			1.2		1	49	1												
	1.2D+1.0Wo (2Yes Y		1	1.2				1	50	1												
	1.2D+1.0Wo (3Yes Y		-	1.2			13	1	51	1												
12	1.2D+1.0Wo (3Yes Y		1	1.2			14	1	52	1												
	1.2D + 1.0Di +Yes Y										15	4	52	1								
	1.2D + 1.0Di +Yes Y		1	1.2			2	1	40	1	15	1_1	53	1_1								
14			1	1.2			2	1	40	1_	16	1_1	54	1_1								
	1.2D + 1.0Di +Yes Y 1.2D + 1.0Di +Yes Y	_	1	1.2			2	1	40	1	17	1_1	55	1_1								
		_	1	1.2			2	1	40	1_	18	1_	56	1_								
	1.2D + 1.0Di +Yes Y		1	1.2			2	1	40	1_	19	1_	57	1_								
	1.2D + 1.0Di +Yes Y	_	1	1.2			2	1	40	1_	20	1_	58	1_								
	1.2D + 1.0Di +Yes Y		1			1.2		1	40	_1_	21	1_	59	1_								
	1.2D + 1.0Di +Yes Y		1	1.2			2	1	40	1_	22	_1_	60	1_								
	1.2D + 1.0Di +Yes Y		1	1.2			2	1	40	_1_	23	_1_	61	_1_								
22	1.2D + 1.0Di +Yes Y	_	1	1.2			2	1	40	_1_	24	1	62	1_								
23	1.2D + 1.0Di +Yes Y		1	1.2			2	1	40	_1_	25	_1_	63	_1_								
24	1.2D + 1.0Di +Yes Y		1	1.2			2	1	40	_1_	26	1_	64	1								
25	1.2D + 1.5Lm1Yes Y		1			1.2		1.5	27	_1_	65	_1_										
	1.2D + 1.5Lm1Yes Y		1			1.2		1.5	28	_1_	66	_1_										
	1.2D + 1.5Lm1Yes Y		1	1.2				1.5		<u>1</u>	67	<u> 1 </u>										
28			1	1.2	39	1.2	77	1.5	30	1	68	1										
29	1.2D + 1.5Lm1Yes Y		1	1.2	39	1.2	77	1.5	31	_1_	69	_1_										
30	1.2D + 1.5Lm1Yes Y		1	1.2	39	1.2	77	1.5	32	1	70	1										
31	1.2D + 1.5Lm1Yes Y		1	1.2	39	1.2	77	1.5	33	1	71	1										
32	1.2D + 1.5Lm1Yes Y		1	1.2	39	1.2	77	1.5	34	1	72	1										
33	1.2D + 1.5Lm1Yes Y		1	1.2	39	1.2	77	1.5	35	1	73	1										
34	1.2D + 1.5Lm1Yes Y		1			1.2		1.5	36	1	74	1										
35	1.2D + 1.5Lm1Yes Y		1			1.2				1	75	1										
36	1.2D + 1.5Lm1Yes Y		1			1.2			38	1	76	1										
	1.2D + 1.5Lm2Yes Y		1	1.2				1.5	27	1	65	1										
	1.2D + 1.5Lm2Yes Y		1	1.2				1.5		1	66	1										
	1.2D + 1.5Lm2Yes Y		1			1.2			29	1	67	1										
	1.2D + 1.5Lm2Yes Y	_	1					1.5		1	68	1										
	1.2D + 1.5Lm2Yes Y	_						1.5		1	69											
	1.2D + 1.5Lm2Yes Y		1					1.5		1	70	1										
	1.2D + 1.5Lm2Yes Y		1					1.5		1	71	1										
	1.2D + 1.5Lm2Yes Y		1					1.5		1	72	1										
	1.2D + 1.5Lm2Yes Y		1					1.5		1	73	1										
	1.2D + 1.5Lm2Yes Y		1					1.5		1	74	1										
	1.2D + 1.5Lm2Yes Y		1					1.5		-	75	1										
	1.2D + 1.5Lm2Yes Y		1					1.5			76	1										
-+0				1.2	00	1.2	70	1.0	00		70											



Company Designer Job Number Model Name

: Paul J. Ford

: JRM : Project No. 10094053

468186-VZW_MT_LOT_SectorA_H

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Load Combinations (Continued)

	Description	So	P	S	BLC	Fact	BLC	Fact	BLC	Fact	BLC	Fact.	BLC	Fact	BLC	Fact.	BLC	Fact.	BLC	Fact.	.BLC	Fact.	.BLC	Fact
49	1.2D + 1.5Lv1	Yes	Υ		1	1.2	39	1.2	79	1.5														
50	1.2D + 1.5Lv2	Yes	Υ		1	1.2	39	1.2	80	1.5														
51	1.4D	Yes	Υ		1	1.4	39	1.4																
52	Seismic Mass		Υ		1	1	39	1																
53	1.2D + 1.0Ev +		Υ		1	1.2	39	1.2	SX		SY	1	SZ	-1										
54	1.2D + 1.0Ev +		Υ		1	1.2	39	1.2	SX	.5	SY	1	SZ	866										
55	1.2D + 1.0Ev +		Υ		1	1.2	39	1.2	SX	.866	SY	1	SZ	5										
56	1.2D + 1.0Ev +		Υ		1	1.2	39	1.2	SX	1	SY	1	SZ											
57	1.2D + 1.0Ev +		Υ		1	1.2	39	1.2	SX	.866	SY	1	SZ	.5										
58	1.2D + 1.0Ev +		Υ		1	1.2	39	1.2	SX	.5	SY	1	SZ	.866										
59	1.2D + 1.0Ev +		Υ		1	1.2	39	1.2	SX		SY	1	SZ	1										
60	1.2D + 1.0Ev +		Υ		1	1.2	39	1.2	SX	5	SY	1	SZ	.866										
61	1.2D + 1.0Ev +		Υ		1	1.2	39	1.2	SX	866	SY	1	SZ	.5										
62	1.2D + 1.0Ev +		Υ		1	1.2	39	1.2	SX	-1	SY	1	SZ											
63	1.2D + 1.0Ev +		Υ		1	1.2	39	1.2	SX	866	SY	1	SZ	5										
64	1.2D + 1.0Ev +		Υ		1	1.2	39	1.2	SX	5	SY	1	SZ	866										

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	D1	max	502.474	9	241.53	12	823.556	2	0	51	0	51	Ō	51
2		min	-536.635	3	-4.054	6	-864.214	8	0	1	0	1	0	1
3	D2	max	101.779	12	65.549	20	2200.071	12	0	51	0	51	0	51
4		min	-485.179	42	-88.716	6	-1463.023	6	0	1	0	1	0	1
5	N56C	max	0	51	0	51	0	51	0	51	0	51	0	51
6		min	0	1	0	1	0	1	0	1	0	1	0	1
7	N57A	max	0	51	0	51	0	51	0	51	0	51	0	51
8		min	0	1	0	1	0	1	0	1	0	1	0	1
9	N58	max	3475.764	6	37.887	18	3562.376	12	0	51	0	51	0	51
10		min	-3559.706	12	4.415	12	-3598.193	6	0	1	0	1	0	1
11	N83A	max	2387.056	42	2147.849	18	-738.159	12	0	51	0	51	0	51
12		min	-682.437	12	643.492	12	-2714.68	18	0	1	0	1	0	1
13	N73A		5726.06	11	64.004	23	3905.177	5	0	51	0	51	0	51
14			-6446.626	5	18.967	41	-2466.765	11	0	1	0	1	0	1
15	Totals:		2421.597	11	2428.941	18	3998.971	1						
16		min	-2421.586	5	955.57	12	-3998.974	7						

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

	Member Shape	Code Check	Lo	LC	Shear Check Lo	LC	phi*Pphi*Pphi*Mphi*M Eqn
1	M37 PIPE_2.0	.683	4.2	6	.139 8.7	12	629532130 1.872 1.872 H1-1a
2	M47 PIPE_3.0	.677	2.2	5	.138 .391	12	2825 65205 5.749 5.749 H1-1b
3	MP3A PIPE_2.0	.553	2.6	12	.299 2.6	12	1785 32130 1.872 1.872 H1-1b
4	MP4A PIPE_2.5	.553	2.1	12	.380 2.1	12	3396 50715 3.596 3.596 H1-1b
5	M38 PIPE_2.0	.478	3.7	11	.069 3.7	8	629532130 1.872 1.872 H1-1b
6	M43A L2.5x2	.442	2.1	5	.043 4.7z	12	1839 38556 1.114 2.28 H2-1
7	M30A PIPE_1	.411	2.92	12	.040 2.6	12	1590 1968801H1-1b
8	M26 PIPE_1	.384	2.92	12	.060 1.46	12	1590 1968801H1-1b
9	MP2A PIPE_2.0	.382	2.6	12	.207 1.6	11	1785 32130 1.872 1.872 H1-1b
10	M35B PIPE_2.0	.313	3.3	12	.005 0	12	1854 32130 1.872 1.872 H1-1a
11	M22 SR_0.6	.311	1.3	12	.036 2.6	11	16529940104H1-1a
12	P1 PL3/8x3	.306	0	12	.278 .25 y	12	3500 36450 .285 2.278 H1-1b
13	M28 PL3/8x3	.295	0	12	.284 0 y	12	3500 36450 .285 2.278 H1-1b
14	M27 PIPE_1	.202	2.92	8	.044 0	12	1590 1968801H1-1b
15	M31 PIPE_1	.198	1.46	12	.057 1.4	12	1590 1968801 .801 H1-1b
16	M35A SR_0.6	.176	0	12	.015 2.6	6	16529940104104 H1



Company Designer Job Number Model Name

: Paul J. Ford

: JRM

: Project No. 10094053

468186-VZW_MT_LOT_SectorA_H

Sept 8, 2021 3:34 PM Checked By:___

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

	Member	Shape	Code Check	Lo	LC	Shear Chec	kLo	. LC	phi*Pphi*Pphi*Mphi*M Eqn
17	R2	PL3/8x3	.164	.5	12	.084	0 y	24	3100 36450 .285 2.278H1-1b
18	MP1A	PIPE_2.0	.158	2.6	12	.044	1.6	6	1785 32130 1.872 1.872 H1-1b
19	M26A	PL3/8x3	.151	0	12	.025	0 y	17	3100 36450 .285 2.278H1-1b
20	R1	PL3/8x3	.140	.5	6	.044	0 y	12	3100 36450 .285 2.278 H1-1b
21	M27A	PL3/8x3	.138	.5	12	.085	0 y	12	3100 36450 .285 2.278 H1-1b
22	M32	SR_0.6	.135	2.6	12	.016	2.6	1	16529940104 H1
23	M44A	L2.5x2	.128	4.7	1	.031	4.7z	12	1839 38556 1.114 2.492 H2-1
24	M48	L2.5x2	.117	2.2	15	.023	4.4z	12	2029 38556 1.114 2.301 H2-1
25	M25	SR_0.6	.117	0	6	.019	0	44	16529940104 H1
26	P2	PL3/8x3	.114	0	11	.057	0 y	8	3500 36450 .285 2.278H1-1b
27	M49	L2.5x2	.071	2.2	13	.023	0 z	12	2029 38556 1.114 2.299 H2-1
28	M29A	PL3/8x3	.067	0	12	.049	0 y	6	3500 36450 .285 2.278H1-1b
29	M23	SR_0.6	.044	2.9	12	.016	0	2	13709940104 H1
30	M34A	SR_0.6	.038	0	12	.010	0	40	13709940104 H1
31	M24	SR_0.6	.023	0	6	.010	0	6	13709940104 H1
32	M33A	SR_0.6	.020	2.9	6	.013	0	3	13709940104 H1

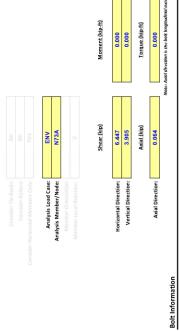


me: NAUGATUCK CT RELO %: 468186 1: 10094053 Job Number: 22721-0344022891 Engineer: JRS0 Date: 092021 Site Number: 4461105 Client Project 1: 1000023

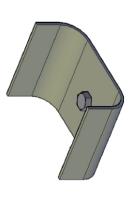
Mount to Tower Connection Checks

Risa File Path:

Apply Capcity Code: Main Check(s) Performed: Consider Epoxy Capacity: Risa-3D Member Reactions Settings









Vertical

Analysis Results		42.1% Pass	Pass
Bolt Capacity		42.1%	اود
Tension:	Applied Load: 0.06 kip Capacity: 29.82 kip	0.2%	
Shear:	Applied Load: 7.54 kip Capacity: 17.89 kip	42.1%	
Tension-Shear Interaction:	Applied Load: - Capacity: -	У О С	
Weld Capacity		N/A	

- L. Connectior is considered pinned, as such no applied moment was considered.
 J. Allowable capacity limit 5 to 1595.
 L. Salowable capacity limit 5 to 1595.
 L. Salowable capacity limit 5 to 1595.
 L. Bott tension reduction not required as tension and/or shear capacity is below 30%.
 Bott tension reduction not required as tension and/or shear capacity is below 30%.



Address:

No Address at This Location

ASCE 7 Hazards Report

Standard: ASCE/SEI 7-16

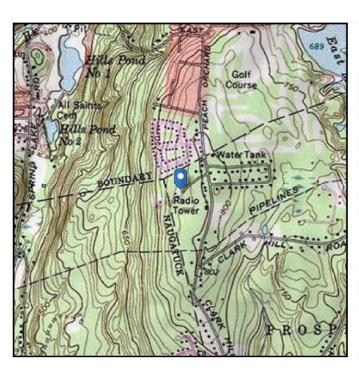
Risk Category: II

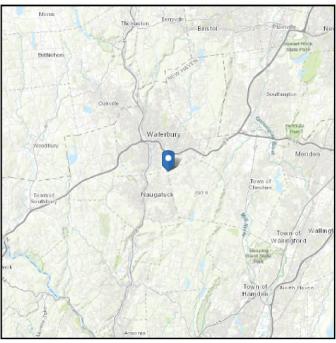
Soil Class: D - Default (see

Section 11.4.3)

Elevation: 786.46 ft (NAVD 88)

Latitude: 41.518611 Longitude: -73.016667





Wind

Results:

Wind Speed: 118 Vmph
10-year MRI 75 Vmph
25-year MRI 84 Vmph
50-year MRI 90 Vmph
100-year MRI 97 Vmph

Data Source: ASCE/SEI 7-16, Fig. 26.5-1B and Figs. CC.2-1–CC.2-4, and Section 26.5.2

Date Accessed: Fri Jul 30 2021

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

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



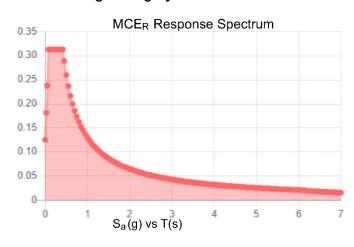
Seismic

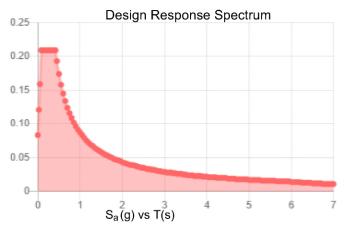
Site Soil Class: D - Default (see Section 11.4.3)

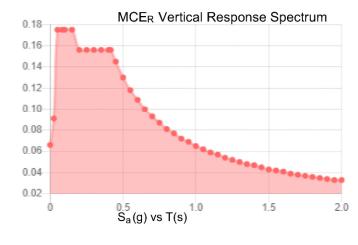
Results:

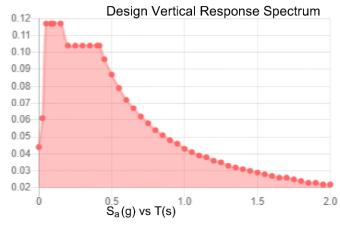
S _s :	0.196	S _{D1} :	0.087
S ₁ :	0.054	T _L :	6
F _a :	1.6	PGA:	0.108
F _v :	2.4	PGA _M :	0.171
S _{MS} :	0.313	F _{PGA} :	1.584
S _{M1} :	0.13	l _e :	1
S _{DS} :	0.209	C _v :	0.7

Seismic Design Category B









Data Accessed: Fri Jul 30 2021

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

accordance with ASCE/SEI 7-16 Ch. 21 are available from USGS.



lce

Results:

Ice Thickness: 1.00 in.

Concurrent Temperature: 15 F

Gust Speed: 50 mph

Data Source: Standard ASCE/SEI 7-16, Figs. 10-2 through 10-8

Date Accessed: Fri Jul 30 2021

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

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

The ASCE 7 Hazard Tool is provided for your convenience, for informational purposes only, and is provided "as is" and without warranties of any kind. The location data included herein has been obtained from information developed, produced, and maintained by third party providers; or has been extrapolated from maps incorporated in the ASCE 7 standard. While ASCE has made every effort to use data obtained from reliable sources or methodologies, ASCE does not make any representations or warranties as to the accuracy, completeness, reliability, currency, or quality of any data provided herein. Any third-party links provided by this Tool should not be construed as an endorsement, affiliation, relationship, or sponsorship of such third-party content by or from ASCE.

ASCE does not intend, nor should anyone interpret, the results provided by this Tool to replace the sound judgment of a competent professional, having knowledge and experience in the appropriate field(s) of practice, nor to substitute for the standard of care required of such professionals in interpreting and applying the contents of this Tool or the ASCE 7 standard.

In using this Tool, you expressly assume all risks associated with your use. Under no circumstances shall ASCE or its officers, directors, employees, members, affiliates, or agents be liable to you or any other person for any direct, indirect, special, incidental, or consequential damages arising from or related to your use of, or reliance on, the Tool or any information obtained therein. To the fullest extent permitted by law, you agree to release and hold harmless ASCE from any and all liability of any nature arising out of or resulting from any use of data provided by the ASCE 7 Hazard Tool.

Fri Jul 30 2021

Mount Desktop – Post Modification Inspection (PMI) Report Requirements

Documents & Photos Required from Contractor – Mount Modification

<u>Purpose</u> – to provide PJF 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 PJF 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
 - "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

- 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)
- 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 PJF.
 - If the drawings are as specified on the drawings

Signature

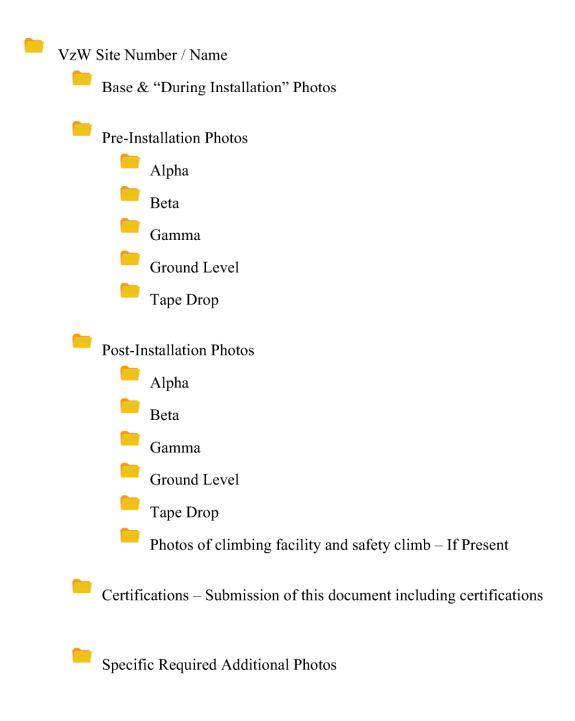
- The contractor should provide the packing list or the materials utilized to perform the mount modification
- o If an equivalent is utilized
 - It is required that the PJF certification of such is included in the contractor submission package. There may be an additional charge for this certification if the equivalent submission doesn't meet specifications as prescribed in the drawings.
- □ The Material utilized was as specified on the PJF Mount Modification Drawings and included in the Material certification folder is a packing list or invoice for these materials
 □ The material utilized was an "equivalent" and included as part of the contractor submission is the PJF certification, invoices, or specifications validating accepted status
 Certifying Individual: Company

The contractor must certify that the materials meet these specifications by one of these

Antenna & equipment placement and Geometry Confirmation:

•		•	antenna & equipment placement and geometry is in ent diagrams as included in this mount analysis.
		-	tos support and the equipment on the mount is as depicted on included in this mount analysis.
_		s and has accordi	nent on the mount is not in accordance with the antenna ngly marked up the diagrams or provided a diagram
Certify	ing Individual:	Company	
		Name	
		Signature	
Specia		lidation as requi	red from the MA or Mod Drawings:
Respo	nse:		

Schedule A – Photo & Document File Structure



Structure: 468186-VZW - NAUGATUCK CT RELO

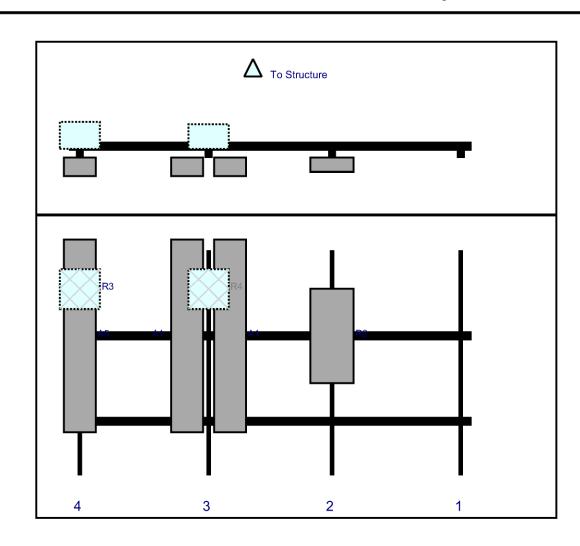
Sector: **A** 9/8/2021

Structure Type: Guyed 10094053

Mount Elev: 153.75 Page: 1



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
R2	MT6407-77A	35.1	16.1	98	2	а	Front	32.04	0	Added	
A1	NHH-65B-R2B	72	11.9	52	3	а	Front	32.04	-8	Added	
A1	NHH-65B-R2B	72	11.9	52	3	b	Front	32.04	8	Added	
R4	RF4440d-13A	15	15	52	3	а	Behind	14.52	0	Added	
A5	LNX-6514DS-VTM	72	11.9	4	4	а	Front	32.04	0	Retained	08/03/2021
R3	RF4439d-25A	15	15	4	4	а	Behind	14.52	0	Added	

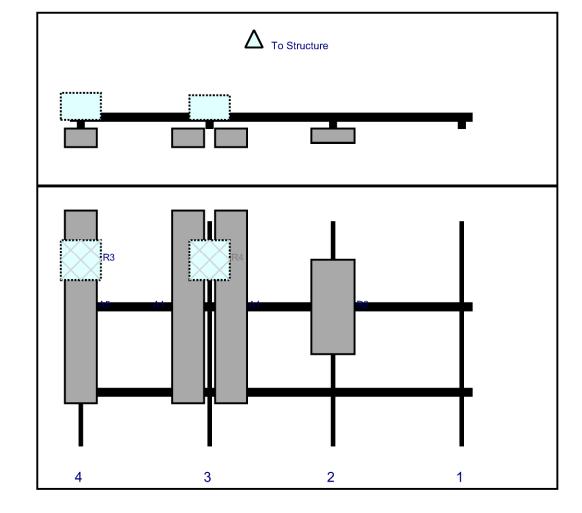
Structure: 468186-VZW - NAUGATUCK CT RELO

Sector: **B** 9/8/2021

Structure Type: Guyed 10094053

Mount Elev: 153.75 Page: 2





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
R2	MT6407-77A	35.1	16.1	98	2	а	Front	32.04	0	Added	
A1	NHH-65B-R2B	72	11.9	52	3	а	Front	32.04	-8	Added	
A1	NHH-65B-R2B	72	11.9	52	3	b	Front	32.04	8	Added	
R4	RF4440d-13A	15	15	52	3	а	Behind	14.52	0	Added	
A5	LNX-6514DS-VTM	72	11.9	4	4	а	Front	32.04	0	Retained	08/03/2021
R3	RF4439d-25A	15	15	4	4	а	Behind	14.52	0	Added	

Structure: 468186-VZW - NAUGATUCK CT RELO

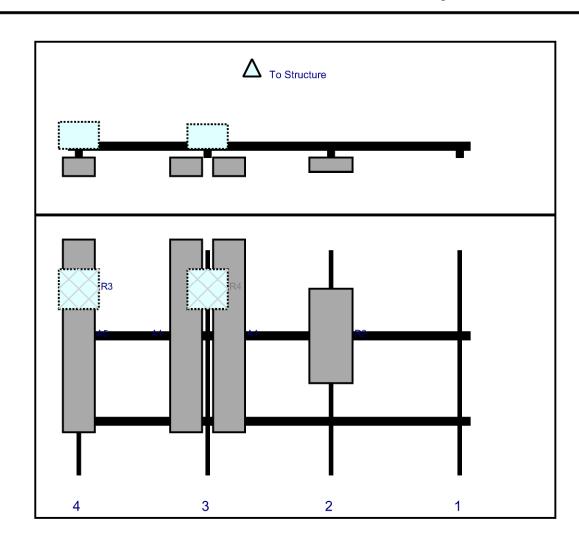
Sector: **C** 9/8/2021

Structure Type: Guyed 10094053

Mount Elev: 153.75 Page: 3



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
R2	MT6407-77A	35.1	16.1	98	2	а	Front	32.04	0	Added	
A1	NHH-65B-R2B	72	11.9	52	3	а	Front	32.04	-8	Added	
A1	NHH-65B-R2B	72	11.9	52	3	b	Front	32.04	8	Added	
R4	RF4440d-13A	15	15	52	3	а	Behind	14.52	0	Added	
A5	LNX-6514DS-VTM	72	11.9	4	4	а	Front	32.04	0	Retained	08/03/2021
R3	RF4439d-25A	15	15	4	4	а	Behind	14.52	0	Added	



Subject TIA-222-H Usage

<u>Site Information</u> Site ID: 468186-VZW/NAUGATUCK CT RELO

Site Name: NAUGATUCK CT RELO
Carrier Name: VERIZON WIRELESS
Address: 37 PEACH ORCHARD RD

PROSPECT, CONNETICUT 06712, NEW HAVEN COUNTY

Latitude: 41.518611° Longitude: -73.016667°

Structure Information Tower Type: Guyed

Mount Type: Sector 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,

ustin Brown

Justin Brown

ST-1



468186-VZW / NAUGATUCK CT RELO

468186-VZW / NAUGATUCK CT RELO

MOUNT MODIFICATION DRAWINGS PROPOSED CARRIER: VERIZON

LAT: 41° 31' 07.00"; LONG: -73° 01' 00.00" PROSPECT, CONNECTICUT 06712 37 PEACH ORCHARD RD **NEW HAVEN COUNTY**

TOWER OWNER: COUNTERPOINT COMMUNICATIONS, INC.

FUZE ID # 16486414

	SHEET INDEX	
SHEET	DESCRIPTION	REV
ST-1	TITLE SHEET	0
SBOM	BILL OF MATERIALS	0
SGN-1	GENERAL NOTES	0
SCF-1	CLIMBING FACILITY DETAILS	0
SS-1	MODIFICATION DETAILS	0
SS-2	MOUNT PHOTOS	0
	SPECIFICATION SHEETS	

	REV	0	0	0	0	0	0	
SHEET INDEA	DESCRIPTION	TITLE SHEET	BILL OF MATERIALS	GENERAL NOTES	CLIMBING FACILITY DETAILS	MODIFICATION DETAILS	SOTOHY TNUOM	SPECIFICATION SHEETS
	SHEET	1-18	WOSS	SGN-1	SCF-1	SS-1	SS-2	

	_
NO CHANGE	DESCRIPTION
9/15/21	DATE
-	ΣĘΛ

REFER TO MOUNT MODIFICATION DRAWINGS PAGE FOR VZW SMART KIT APPROVED

VENDORS

VZW APPROVED SMART KIT VENDORS

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

HTTPS://PMI.VZWSMART.COM

SMART TOOL VENDOR PROJECT# VZW LOCATION CODE (PSLC)

PMI ACCESSED AT

CONTRACTOR PMI REQUIREMENTS

BILL OF MATERIALS

SBOM

MOUNT MODIFICATION DRAWINGS РРОЅРЕСТ, СОИИЕСТІСИТ 468186-VZW / NAUGATUCK CT RELO



8 COMPANY
250 E 800d 51, 51e 600 - Columbus, OH 43215
Phone 614.221.6679 www.paulford.com

		NOTES		FIELD TRIM TO 7'-0"								NOTES						
		MATERIAL	APPIETAS (Gr. B-35)	ASTM A53 (Gr. B-35)			· ·					MATERIAL						NTRACTOR.
S		TOTAL WEIGHT (LBS)		139.20		702.00	180.00	252.00			TS	TOTAL WEIGHT (LBS)					1641.45	O BE PROVIDED BY THE CO
BILL OF MATERIALS	VZWSMART KITS	PIECE WEIGHT (LBS)		46.40		117.00	15.00	84.00			OTHER REQUIRED PARTS	PIECE WEIGHT (LBS)					TOTAL WEIGHT =	S SHEET ARE ASSUMMED TO
		DESCRIPTION	HORIZONTPA BRACANGEPINE	8:0" LONG, P2.5 STD (2.875"Ø X 0.203") PIPE	MOUNT PINS CROSSOVER PLANES	V-BRACING KIT	BRACING PIPE CROSSOVER PLATES	TIE BACK ASSEMBLY				DESCRIPTION						NOTE: ALL MATERIALS REQUIRED FOR THE DESIGN MODIFICATIONS BUT NOT LISTED IN THIS SHEET ARE ASSUMMED TO BE PROVIDED BY THE CONTRACTOR.
		PART NUMBER	V ZWSKIDRYK P. 40 342XT56	VZWSMART P40-278X096	VPASSILART: NISKS	VZWSMART-SFK3-SL	VZWSMART-MSK2	VZWSMART:SFK1				PART NUMBER						R THE DESIGN MODIFICATIO
		MANUFACTURER						VZWSMART				MANUFACTURER						TERIALS REQUIRED FO
		QUANTITY		3		9	12	ε				QUANTITY						NOTE: ALL MA

	VZWSMART	WSMART KITS - APPROVED VENDORS	S
VENDOR	CONTACT	EMAIL	PHONE NUMBER

VENDOR	CONTACT	EMAIL	PHONE NUMBER
PERFECT VISION	WIRELESS SALES	WIRELESSSALES@PERFECT-VISION.COM	(844) 884-6723
SITEPRO	PAULA BOSWELL	PAULABOSWELL@VALMONT.COM	(972) 236-9843
SABRE INDUSTRIES INC.	ANGIE WELCH	AKWELCH@SABREINDUSTRIES.COM	(866) 428-6937
METROSITE FABRICATORS, LLC	KENTRAMEY	KENT@METROSITELLC.COM	(706) 335-7045
COMMISCOPE	SALVADOR ANGUIANO	SALVADORANGUIANO@COMMSCOPE.COM	(817) 304-7492
THE MANUFACTURERS WHICH KITS HAVE BEEN MATERIAL UTILIZED ON TH	LISTED ARE THE APPROVE THROUGH THE VZW APPRO HE MOUNT MODIFICATIONS I OR. IT WILL BE REQUIRED T	THE MANUFACTREERS I STED ARE THE APPROACH SHOWNES FOR THE YOM MOUNT KITS. EACH MANUFACTREER WILL BE ANMED OF WHECH KITS WARE BEEN THROUGH THE YOW APPROACH MOCESSEA MOT THE ARE IN THEM THEN MANUFERAL UTILED ON THE MOUNT MODIFICATIONS WILL BE REPREMED AS A PART OF THE DESKTOP PAIL COMPLETED BY THE SMART TOOL VEHOOR. IT WILL BE RECURRED THAT THE VEHICLES DAE LITLIZED IN THE MODIFICATION.	ACTURER WILL BE AWARE OF SELL. PLEASE NOTE THAT THE OMPLETED BY THE SMART TOOL DUFFICATION.
	ALL PARTS /	ALL PARTS ARE GALVANIZED UNLESS NOTED OTHERWISE	

	9/15/21	PIPE SIZE CHANGE
_	DATE	DESCRIPTION

STRUCTURAL STEEL MATERIALS, FORRICATION, DETALING, AND WORMANSHIP SHALL CONFORM TO THE LATEST ADDITION OF THE CLUIDWING SERFECTION CASE. STRUCTURAL STRUCTURAL MACROAL MISTITUTE OF STEEL CONSTRUCTION (MSC).

SPECIENCIANO (S.S. SIRCULIDAR, STEEL BUILDINGS, MSC).

SPECIENCIANO (S.S. SIRCULIDAR, LOWITS USING STRUCTURAL CONFORMATIONS. OCCORD. ON STRUCTURAL CONFORMATIONS. OCCORD. ON STRUCTURAL CONFORMATIONS. OCCORD. STRUCTURAL CONFORMATIONS. OCCORD. STRUCTURAL CONFORMATIONS. OCCORD. STRUCTURAL CONFORMATIONS. OCCORD. STRUCTURAL MACROSCOPIC STRUCTURAL M

- WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE LOCAL BUILDING OFFICIALS FOR ANY INSPECTIONS THAT MAY BE REQUIRED.
- THE CONTRACTOR MUST BE EXPERENCED IN THE PERFORMANCE OF WORK SMILLAR TO THAT DESCRIBED ON THESE PORMANCES OF MEDICATION OF THE FORD SMILLS BEFORENCE THE SUFFICIENT EXPERIENCE THAT HAVE THE SWADME FOR THE WORK TO BE PERFORMED AND THAT HE IS PROPERLY LICENSED TOO THIS WORK IN THE LISSINGTIMM WHICH THE WORK IS TO BE PERFORMED.
- THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLE! Y RESPONSIBLE FOR ALL CONTRACTOR ALL STRUCTURES ARE ESCRIBETOR THE CONTRACTOR SOLE CONTRICTION ALL STRUCTURES ARE ESCRIBETOR TO BE THE CONTRACTOR SOLE CONSTRUCTION. THE SHAMMSON DECENDED TO BE THE WEIGHTON FOR CONTRACTOR SOLE CONTRACTOR SOLE CONTRACTOR NOT SOLE THE WEIGHTON FOR CONTRACTOR SOLE CONTRACTOR SOLE CONTRACTOR TO SOLE THE CONTRACTOR RECEIVES TO ENSURE THE STRUCTURE AND ITS COMPONENT PARTS AND THE ACCURACY OF THE STRUCTURE AND ITS COMPONENT PARTS AND THE ACCURACY OF THE ADDITION OF WARTERS TEADORARY BRACKE HAND THE MAY BE ACCESSED TO THE STRUCTURE AND THE WARTERS TEADORARY BRACKE THAT WAY BE ACCESSED AND THE ADDITIONATION OF THE STRUCTURE AND THE WARTERS THE PROPARY OF SHALL FOR MAXIMUM WIND SPECIAL AND OR TEAPORARY BRACKE SOLE OF THE STRUCTURE AND TH
- ANY EXISTING ATTACHMENTS AND OR PROJECTIONS ON THE STRUCTURE THAT MAY INTERFERE WITH THE INSTALLATION OF THE MODIFICATION SYSTEM WILL HAY! FOR FREMOVED AND RELOCATED, OR RE-INSTALLED AS REQUIRED AFTER THE MODIFICATION IS SUCCESSIVELY COMPLETED. THE CONTRACTOR SHALL IDENTIFY AND CORROWNET THESE TITEMS PROR IN CONSTRUCTION WITH UNMER. ITS THE AGRECY, AND EACH.
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR INITIATING, MAINTAINING, AND SUPERVISING ALL SAFETY PROGRAMS AND PRECAUTIONS IN CONNECTION WITH THE WORK.
- CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREPENT DAMAGE TO EXISTING STRUCTIBES, EQUIPMENT WOUTLITES AND MAMAGE TO EXISTING STRUCTIBES, EQUIPMENT, AND UTLITES AS ARESULT OF THE CONTRACTORS WORK OR FROM DAMAGE DUE TO OTHER CAUSES SHALL BE REPARED AT THE CONTRACTORS EXPENSE TO THE SATISFACTION OF THE CONTRACTORS EXPENSE TO THE SATISFACTION OF THE CONTRACTORS.
- WORK SHALL BE PERFORMED DURING CALM DRY DAYS (WINDS LESS THAN 30-AIPH) IN ACCORDANCE WITH OPERATIONAL WIND CONDITIONS PER TIA-322.
- THE MOUNTING SYSTEM SHALL NOT BE USED AS A TIE OFF POINT.
- THE STRUCTURAL ANALYSIS ASSUMES THAT ALL STRUCTURAL COMPONENTS ARE IN BROAD MENY CONDITION. FREE FROM A TRIAL STRUCTURAL COMPLOCATION OF THE CONTRACTOR COMMENT IN A OLL DUMBACEN STANDS ECON RECOVER COMPLIANCED MISSIN OR ALL STRUCTURES HE SHAVE OF FREE CONDITIONS ARE BISCOVERED. THE CONTRACTOR SHALL APPROPER THE MEN STRUCTURES AND STRUCTURES.

11. ALI REQUIRED CUTS SHALL BE CUT WITHIN THE DIMENSIONS SHOWN ON THE DRAWINGS, NO CUTS SHALL EXTEND EPECHOT THE CUTLING O'THE DIMENSIONS SHOWN ON THE DRAWINGS, ALL CUT EDGES SHALL BE GROUND SMOOTH AND BE BURBED. CONTRACTOR TO AVOID 50 DECARED. CHAMPERS, IT MAY BE NECKSSARY TO DRILL STARTER HOLES AS REQUIRED TOWARD THE CUT.

10. NO FIELD WELDING SHALL BE DONE TO THE EXISTING STRUCTURE WITHOUT THE PRIOR APPROVAL OF THE OWNER AND SUPERVISION BY THE INSPECTION/IESTING AGENCY.

SHOP SHALL ASSEMBLE AND VERIFY FIT AND GAPS BEFORE BREAKDOWN FOR GALVANIZING. 8. ALL PARTS ARE TO MARKED WITH ITEM NUMBERS USING 3/4" HIGH STEEL STENCILS.

- I. I. MATTEMAS, QUANTITES, STRENCTNS, OR SUZES NUTCATED BY THE DRAWNINGS OR SPECIFICATIONS ARE NOT IN AGREEMENT WITH THESE NOTIES. THE STATE GUANTITY, STRENCTH, OR SUZE INDIOATED, SPECIFIED, ON NOTIES SHALL BE PROVIDED.
- ALS OBSERVATION VISITS TO THE SITE BY OWNER AND/OR THE EOR SHALL NOT INCLUDE INSPECTIONS OF THE PROTECTIVE MEASURES OR THE CONSTRUCTION PROCEDURES.
- ANY SUPPORT SERVICES PERFORMED BY THE COF DIRANG CONSTRUCTIVA MER SOLETY FOR THE PURPOSE OF ASSISTING NO LOUALITY CONTRICT, AND A ACHEFORM CHEFUL FROMBACTE WITH CONTRICTO COLDINENT STATE OF THE CONTRICTORS PERFORMANCE AND SHALL NOT SECONSTRUCTION OF CONSTRUCTION
- THE CLIMBING FACILITES, SAFETY CLIMB, AND ALL PARTS THEREOF SHALL NOT BE IMPEDED, MODIFED, OR ALTERED WITHOUT THE APPROVAL OF THE EOR.

- ALL MANUFACTURER'S HARDWARE ASSEMBLY INSTRUCTIONS SHALL BE FOLLOWED, UNO, CONFLICTING NOTES SHALL BE BROUGHT TO THE ATTENTION OF THE EOR.
- IB. IF REMOVAL OF EXISTING MODIFICATIONS IS REQUIRED PER THE MODIFICATION SCOPE, THE CC SHALL CLEM AND COLD AGAINGT AND THE VESTING BEAUTHY TOLD IT HOLD END AGAINGT AND THE ADDITIONAL CONTRACE. DO NEED AGAINGT THE EIGHT CONTRACE. THE CO SHALL CONTRACT THE EIGHT OF THE CONTRACT THE CONTRACT

MOUNT MODIFICATION DRAWINGS PROSPECT, CONNECTICUT

- 15. AFTER THE CONTRACTOR HAS SUCCESSEDLY COMBETED. THE INSTALLATION OF THE MODIFICATION SYSTEM AND THE WORK HAS BEEN ACCEPTED BY THE OWNER, THE OWNER WILL BE RESPONSEDLE FOR THE LONG TERMFERDETULAL INSPECTIVA AND MARTENANCE OF THE STRUCTINE AND MODIFICATION SYSTEM.
 - - 6. DO NOT SCALE DRAWINGS.
- THE MOUNTING SYSTEM SHALL NOT BE USED FOR RIGGING PURPOSES. IF RIGGING TO THE MOUNT IS REQUIRED, ALL OUNCES PLANS SHALL MOTHER TO ANSINSSE ATM & (ATEST EDITION), INCLUDING THE REQUIRED INVOLVEMENT OF A QUALIFED ENGINEER FOR CLASS IN CONSTRUCTION TO CERTIFY THE SUPPORTING STRUCTURE(S) IN ACCORDANCE WITH THE ANSITY AZZALEST STITION).

PROJECT No:	22721-0344.002.6
DRAWN BY:	
DESIGNED BY:	
CHECKED BY:	
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	8/12/2021
NS SK	SENERAL NOTES

SGN-1

VERIZON WIRELESS ## BAUL 1. FORD ### COM PANY ### COM PANY

SPACING 1 1/2

MIN EDGE DISTANCE

STANDARD SHORT SLOT

HOLE

BOLT DIAMETER

BOLT SCHEDULE (IN)

8// 1 1/8 1 14 1 1/2 13/4

9/16 x 11/16

9/16

1/2

ALL NEW STEEL SHULL BE HOT DIP GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123, ASTM 153/84/53M, OR ASTM A553 630.

2. NEW STELL (UNLESS NOTED OTHERWISE) SHALL COMPORA TO THE REQUIREMENTS OF THE ASTM STANDARD SPECIFICATION OF RESTRUCTIONAL STEEL NOTE DELOW.

W. ASTM STRICHOLD, STRINGTON THE NET BELOW.
W. ASTM ASON OF STRINGTON THAT STRANDARD SPECIATION, ASTM ASON OF STRINGTON THAT SHALL STRANDARD SPECIATION, ASTM ASON OF SIR (ASTWIND FORT MATERIAL)

FIRST SOURCE. ASTM ASON OF SEGS SEGS STRINGTON TANTERIAL)

C. AME, L. PATERS BARGS & ALL OTHER STEEL. ASTM ASS (SWSS) YIELD POINT MATERIAL)

I. BRITLS, ASTM AST CRADER, C. SAFE ASS OF SPECIATION SPECIATION.

WHITE, ASTM AST CRADER OF SPECIATION.

4. ALL BOLTS, UBOLTS, AND THREADED RODS SHALL BE PROVIDED WITH LOCK-WASHERS, OR LOCK-NUTS, OR PAL-NUTS TORQUED TO THE SNUG-TIGHT CONDITION AS DEFINED BY AISC.

11/16×7/8

2/8 3/4

13/16 x 1

13/16 11/16

15/16

8/2

5. ALL HOLES, ETHER PRINCED OR DRILLED. THE CENTING STEEL BLABERS SHALL BE "SER MICH LARGER THAN THE BOLI THANKETS UNLESS NOTED OHEAWARE BROWN OF MEMBERS SHALL BY EFRAINTED, SOUTED HOLES WE NOTED HOLES WE SHALL BE "THIS "THE BOLI TO HEAWARE SHALL BY "THE SHALL BE PLACED AT ASC. SHALL BE "THE BHACED AT ASC."
SHALLAND GAGE BHERSONS, UNLESS NOTED OHEAWARE.

7. AL EXISTING PARITED OR GALVANIZED SURFACES DAMAGED DURING CONSTRUCTON SHALL BE WIRE BRUSHED CLEAN, REPARED BY COLD GALVANLIZAN. BRUSHA MPLED PAINT (ZNGA OR EQUAL), AND REPAINTED TO MATCH THE EXISTING FINISH CONFORMING OR STITA 780.

6. IF ANY EXISTING ASTM A325 BOLTS ARE REMOVED, THEY MUST BE REPLACED WITH NEW A325 BOLTS OR GREATER.

ALLOWABLE COPING

MIT OF ALLOWABLE COPE WITHOUT PRIOR EOR APPROVAL —

2 1/4 1 7/8

258

11/16×15/16 15/16 x 1 1/8

11/16

468186-VZW / NAUGATUCK CT RELO

GAGES (IN)	GAGE	2 1/2	2	13/4	13/8	11/8
WORKABLE GAGES (IN)	LEG	4	3.1/2	3	21/2	2

	— BOLT HEAD	
LOCK WASHER		

- 1. ALL DMENSIONS REPRESENTED IN THE ABOVE TABLES ARE ANCIMMUM REQUIREMENTS. CONTRACTOR SHALL VERIFE YESTING CONDITIONS IN FELD AND NOTIFY ENGINEER IS DISTANCES ARE LESS THAN THOSE PROVIDED. NOTE
- THE DIMENSIONS PROVIDED ARE MINIMUM REQUIREMENTS. ACTUAL DIMENSIONS OF PROVIDED WITHIN THESE DRAWINGS MAY VARY FROM THE AISC MINIMUM REQUIREMENTS. 8
- SHORT SLOT HOLES SHALL ONLY BE USED WHEN DEPICTED IN THE DRAWING.
 - MATCH EXISTING GAGES WHEN APPLICABLE, UNLESS MINIMUM EDGE DISTANCES ARE COMPROMISED.

TYP BOLT ASSEMBLY



NO CHANGE	DESCRIPTION
9/15/21	DATE
-	REV







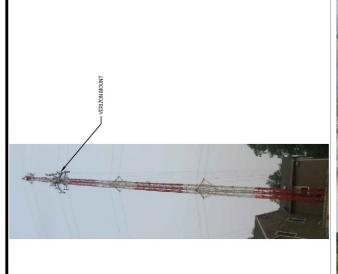
PROSPECT, CONNECTICUT MOUNT MODIFICATION DRAWINGS

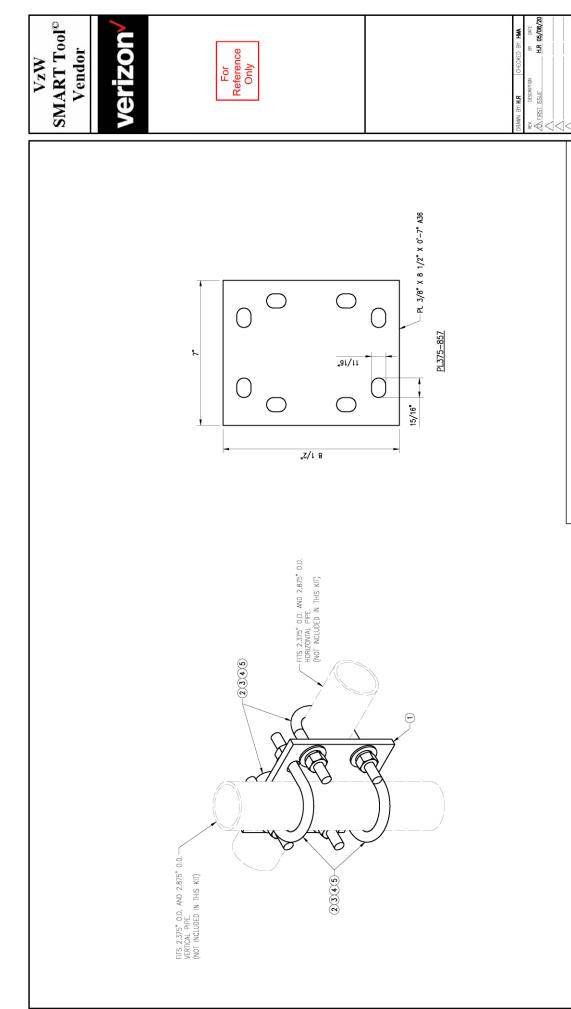
468186-VZW / NAUGATUCK CT RELO



VERIZON WIRELESS

PAUL J. FORD & COM PANY Stock of the state of the stat





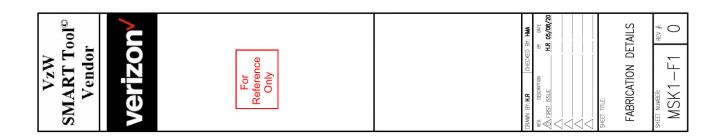
VZWSMART-MSK1 14 ₹ SHEET # GALVANIZED WT MSK1-F1 RBC-1 RU-BOLT 5/8" X 3" I.W. X 5" I.L. A36 (OR EQUIV.) VZWSMART-MSK1 (CROSSOVER PLATE) DESCRIPTION 5/8" HDG USS FLAT WASHER 5/8" HDG LOCK WASHER MS02-625-300-500 PL375-857 PART NO. LW-625 NUT-625 FW-625 QT.

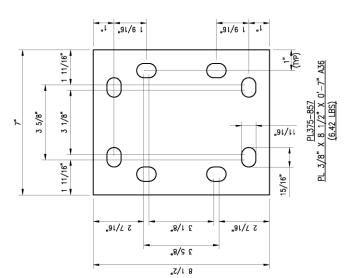
NEW Sew

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

VZWSMART-MSK1 CROSSOVER PLATE

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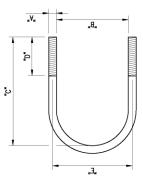
	"ABA"	0.26	0.30	0.30	0.27	0.32	0.34	0.35	0.34	0.34	0.40	0.36	0.38	0.37	0.45	0.42	0.50	0.53	0.46	0.50	09:0	
	"E"	13/16"	13/8"	15/8"	11/2"	17/8"	1 7/8"	1 7/8"	2 1/8"	2 3/8"	2-3/8"	2 1/2"	2 7/8"	2 7/8"	2 7/8"	3 3/8"	3 3/8"	3 3/8"	3 7/8"	3 7/8"	4 3/8"	
	"D"	.8/L	11/4"	11/4"	11/4"	11/4"	15/8"	13/4"	11/8"	11/4"	1-1/4"	11/4"	11/4"	11/4"	13/4"	11/4"	2"	3	11/4"	2,,	21/2"	
	"J"	15/8"	2 1/4"	2 1/4"	113/16"	2 1/2"	23/4"	3"	2 3/4"	2 5/8"	3"	3"	3 1/16"	3 1/8"	3-5/8"	3 5/8"	41/4"	.8/5 9	41/8"	43/4"	5 3/4"	
HART	"B"	13/16"	1"	11/4"	11/8"	11/2"	11/2"	11/2"	13/4"	2"	2"	21/8"	21/2"	21/2"	21/2"	3"	3"	3	31/2"	31/2"	4"	
STANDARD RU-BOLT CHART	" ∀ "	"8/E	.,8/E	.,8/E	3/8"	.,8/E	.,8/E	.,8/E	3/8"	.,8/E	3/8"	.8/8	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	.,8/£	"8/E	.,8/E	
STANDARI	(EQUIVALENT PART NO.)	MS02-375-8125-1625	MS02-375-100-225	MS02-375-125-225	MS02-375-1125-18125	MS02-375-150-250	MS02-375-150-275	MS02-375-150-300	MS02-375-175-275	MS02-375-200-2625	MS02-375-200-125	MS02-375-2125-300	MS02-375-250-30625	MS02-375-250-3125	MS02-375-250-3625	MS02-375-300-3625	MS02-375-300-425	MS02-375-300-6625	MS02-375-350-4125	MS02-375-350-475	MS02-375-400-575	
	DESCRIPTION	3/8" RU-BOLT	3/8" RU-BOLT	3/8" RU-BOLT	3/8" RU-BOLT	3/8" RU-BOLT	3/8" RU-BOLT	3/8" RU-BOLT	3/8" RU-BOLT	3/8" RU-BOLT	3/8" RU-BOLT	3/8" RU-BOLT	3/8" RU-BOLT	3/8" RU-BOLT	3/8" RU-BOLT	3/8" RU-BOLT	3/8" RU-BOLT	3/8" RU-BOLT	3/8" RU-BOLT	3/8" RU-BOLT	3/8" RU-BOLT	

1/2" RU-BOLT	MS02-500-75-350	1/2"	3/4"	3 1/2"	21/2"	11/4"	0.60
1/2" RU-BOLT	MS02-500-1563-350	1/2"	19/16"	3 1/2"	2".	2 1/16"	0.62
1/2" RU-BOLT	MS02-500-200-300	1/5"	2"	3"	11/4"	2 1/2"	0.55
1/2" RU-BOLT	MS02-500-200-375	1/2"	2"	3 3/4"	13/4"	2 1/2"	0.67
1/2" RU-BOLT	MS02-500-20625-500	1/2"	21/16"	2	3"	2 9/16"	0.80
1/2" RU-BOLT	MS02-500-225-450	1/2"	21/4"	41/2"	21/2"	23/4"	0.76
1/2" RU-BOLT	MS02-500-2438-3625	1/2"	27/16"	35/8"	13/4"	2 15/16"	0.67
1/2" RU-BOLT	MS02-500-2438-5375	1/2"	27/16"	53/8"	3"	2 15/16"	0.86
1/2" RU-BOLT	MS02-500-250-400	1/5"	21/2"	4"	21/2"	3"	0.70
1/2" RU-BOLT	MS02-500-250-450	1/2"	21/2"	4 1/2"	21/2"	3"	0.76
1/2" RU-BOLT	MS02-500-29375-575	1/2"	2 15/16"	5 3/4"	3"	37/16"	0.92
1/2" RU-BOLT	MS02-500-300-4125	1/2"	3"	41/8"	2,,	3 1/2"	0.74
1/2" RU-BOLT	MS02-500-300-450	1/2"	3,	41/2"	15/8"	3 1/2"	0.73
1/2" RU-BOLT	MS02-500-300-500	1/2"	3"	5"	21/2"	3 1/2"	0.84
1/2" RU-BOLT	MS02-500-350-500	1/2"	31/2"	5"	11/2"	4"	0.78
1/2" RU-BOLT	MS02-500-350-850	1/2"	31/2"	8 1/2"	3,	4"	1.09
1/2" RU-BOLT	MS02-500-3625-550	1/2"	35/8"	5 1/2"	3,,	4 1/8"	1.10
1/2" RU-BOLT	MS02-500-3625-600	1/2"	35/8"	9	21/2"	4 1/8"	0.97
1/2" RU-BOLT	MS02-500-3563-450	1/5"	39/16"	41/2"	2"	41/16"	0.80
1/2" RU-BOLT	MS02-500-3563-650	1/2"	39/16"	61/2"	3"	41/16"	1.02
1/2" RU-BOLT	MS02-500-400-550-B	1/2"	4"	5 1/2"	11/2"	41/2"	0.84
1/2" RU-BOLT	MS02-500-400-550	1/2"	4"	5 1/2"	2".	41/2"	0.92
1/2" RU-BOLT	MS02-500-4063-700	1/2"	41/16"	7"	3"	49/16"	1.09
1/2" RU-BOLT	MS02-500-4125-600	1/2"	41/8"	.9	21/2"	45/8"	0.98
1/2" RU-BOLT	MS02-500-450-600	1/2"	41/2"	.9	11/2"	5"	0.89
1/2" RU-BOLT	MS02-500-4625-700	1/2"	45/8"	7"	21/2"	5 1/8"	1.11
1/2" RU-BOLT	MS02-500-4563-750	1/2"	4 9/16"	71/2"	3,,	5 1/16"	1.16
1/2" RU-BOLT	MS02-500-5625-725	1/2"	55/8"	71/4"	2,,	61/8"	1.04
1/2" RU-BOLT	MS02-500-4563-575	1/2"	49/16"	53/4"	2"	5 1/16"	0.97
1/2" RU-BOLT	MS02-500-5563-700	1/2"	59/16"	7"	2"	61/16"	1.14
1/2" RU-BOLT	MS02-500-575-750	1/2"	53/4"	71/2"	21/2"	61/4"	1.22
1/2" RU-BOLT	MS02-500-6625-800	1/2"	.8/59	100	3"	7 1/8"	1.28
1/2" RU-BOLT	MS02-500-675-850	1/2"	63/4"	8 1/2"	21/2"	7 1/4"	1.17
1/2" RU-BOLT	MS02-500-675-8375	1/2"	63/4"	83/8"	2"	71/4"	1.24
1/2" RU-BOLT	MS02-500-8750-1025	1/2"	83/4"	101/4"	3"	91/4"	1.60
1/2" RU-BOLT	MS02-500-875-10375	1/5"	83/4"	103/8"	2"	91/4"	1.34
1/2" RU-BOLT	MS02-500-10875-1300	1/2"	107/8"	1-1"	'n	11.3/8"	1.98

NOTES:

IF EQUIVALENT U-BOLTS ARE USED, THE FOLLOWING SPECIFICATIONS ARE REQUIRED:

- 1. THE MATERIAL SHALL BE HOT ROLLED STEEL WITH A MINIMUM YIELD STRENGTH OF 36 KSI.
- 2. ALL U-BOLTS SHALL BE HOT DIP GALVANIZED PER ASTM 4153-78.
- 3. TOLERANCE: FOR "C" AND "D" +/- 1/16", "B" AND "E" + 1/16", "A" +/- 1/32".



	STANDAR	STANDARD RU-BOLT CHART	HART					
DESCRIPTION	(EQUIVALENT PART NO.)	"A"	"B"	"C"	"D"	"B"	"WGT"	
5/8" RU-BOLT	MS02-625-200-375	2/8"	2"	33/4"	2"	2 5/8"	1.15	
5/8" RU-BOLT	MS02-625-2063-500	2/8"	21/16"	5"	3"	2 11/16"	1.32	
5/8" RU-BOLT	MS02-625-2438-5375	2/8"	27/16"	5 3/8"	3"	3 1/16"	1.40	
5/8" RU-BOLT	MS02-625-250-400	.8/5	21/2"	4"	2 1/2"	3 1/8"	1.17	
5/8" RU-BOLT	MS02-625-2625-450	2/8"	25/8"	4 1/2"	2"	3 1/4"	1.20	
5/8" RU-BOLT	MS02-625-2563-550	.8/9	29/16"	5 1/2"	3"	33/16"	1.43	
5/8" RU-BOLT	MS02-625-2938-5875	2/8	215/16"	27/8"	3"	3 9/16"	1.52	
5/8" RU-BOLT	MS02-625-300-400	2/8	3"	4"	2"	3 5/8"	1.20	
5/8" RU-BOLT	MS02-625-300-500	2/8	3"	5"	3"	3 5/8"	1.37	
5/8" RU-BOLT	MS02-625-3063-600	.8/5	31/16"	.9	3"	3 11/16"	1.54	
5/8" RU-BOLT	MS02-625-3625-600	2/8	35/8"	9	3"	4 1/4"	1.45	
5/8" RU-BOLT	MS02-625-3563-650	2/8"	39/16"	61/2"	3"	4 3/16"	1.65	
5/8" RU-BOLT	MS02-625-4063-700	2/8"	41/16"	7"	3"	411/16"	1.77	
5/8" RU-BOLT	MS02-625-4125-600	2/8"	4 1/8"	.9	3"	4 3/4"	1.60	
5/8" RU-BOLT	MS02-625-4625-700	2/8"	4 5/8"	7"	3"	5 1/4"	1.60	
5/8" RU-BOLT	MS02-625-4563-750	2/8"	49/16"	7 1/2"	3"	5 3/16"	1.87	
5/8" RU-BOLT	MS02-625-4813-775	2/8"	413/16"	73/4"	3"	5 7/16"	1.93	
5/8" RU-BOLT	MS02-625-500-700	2/8"	5"	7"	3"	5 5/8"	1.96	
5/8" RU-BOLT	MS02-625-5063-800	2/8"	51/16"	100	3"	5 11/16"	1.99	
5/8" RU-BOLT	MS02-625-5625-85625	2/8"	5 5/8"	89/16"	3"	6 1/4"	2.11	
5/8" RU-BOLT	MS02-625-575-800	2/8	5 3/4"	8	3"	6 3/8"	2.02	
5/8" RU-BOLT	MS02-625-6688-9625	2/8"	611/16"	9 5/8"	3,,	75/16"	2.35	
5/8" RU-BOLT	MS02-625-6750-900	2/8"	63/4"	9"	3"	7 3/8"	2.24	
5/8" RU-BOLT	MS02-625-8688-11625	2/8"	811/16"	115/8"	3"	93/16"	2.80	
5/8" RU-BOLT	MS02-625-875-1100	2/8	83/4"	11,	3"	93/8"	2.70	
5/8" RU-BOLT	MS02-625-10688-1375	2/8	10 13/16	13 3/4"	3"	11 7/16"	3.27	
5/8" RU-BOLT	MS02-625-12875-1575	2/8"	12 7/8"	15 3/4"	3"	13 1/2"	3.72	
5/8" RU-BOLT	MS02-625-14125-1700	2/8"	141/8"	17"	3"	14 3/4"	4.01	

BY DATE H.R 05/08/20

ON FIRST ISSUE

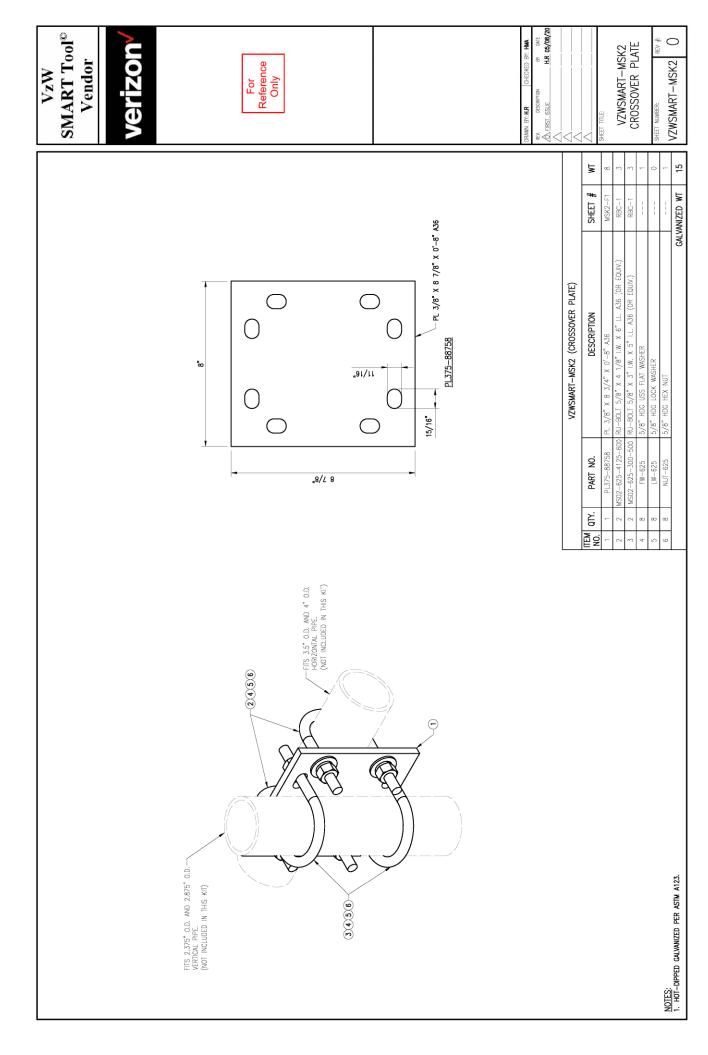
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RBC-1

RU-BOLT CHART

$V_{\mathbf{Z}}W$ SMART Tool[©] Vendor

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SMART Tool©
Vendor
Vendor

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Only

SHET TILE

FOR REFLEXA

REFLEXA

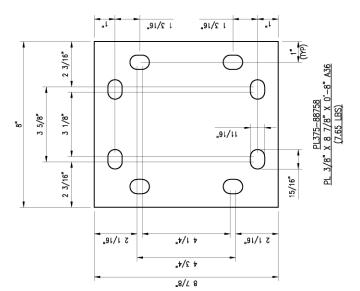
SHET TILE

SHET NUMBER

MSK2-F1

SMARZ-F1

SHET NUMBER



	STANDAR	STANDARD RU-BOLT CHART	HART				
DESCRIPTION	(EQUIVALENT PART NO.)	"¥"	"B"	"J"	"Q"	"ā"	"WGT"
3/8" RU-BOLT	MS02-375-8125-1625	3/8"	13/16"	15/8"	.8/2	13/16"	0.26
3/8" RU-BOLT	MS02-375-100-225	3/8"	1,,	2 1/4"	11/4"	13/8"	0.30
3/8" RU-BOLT	MS02-375-125-225	3/8"	11/4"	2 1/4"	11/4"	15/8"	0:30
3/8" RU-BOLT	MS02-375-1125-18125	3/8"	11/8"	113/16"	11/4"	11/2"	0.27
3/8" RU-BOLT	MS02-375-150-250	3/8"	11/2"	2 1/2"	11/4"	17/8"	0.32
3/8" RU-BOLT	MS02-375-150-275	3/8"	11/2"	23/4"	15/8"	17/8"	0.34
3/8" RU-BOLT	MS02-375-150-300	3/8"	11/2"	3,,	13/4"	17/8"	0.35
3/8" RU-BOLT	MS02-375-175-275	3/8"	13/4"	23/4"	11/8"	2 1/8"	0.34
3/8" RU-BOLT	MS02-375-200-2625	3/8"	2"	2 5/8"	11/4"	23/8"	0.34
3/8" RU-BOLT	MS02-375-200-125	3/8"	2"	3"	1-1/4"	2-3/8"	0.40
3/8" RU-BOLT	MS02-375-2125-300	3/8"	21/8"	3"	11/4"	2 1/2"	0.36
3/8" RU-BOLT	MS02-375-250-30625	3/8"	21/2"	31/16"	11/4"	27/8"	0.38
3/8" RU-BOLT	MS02-375-250-3125	3/8"	21/2"	3 1/8"	11/4"	27/8"	0.37
3/8" RU-BOLT	MS02-375-250-3625	3/8"	21/2"	3-5/8"	13/4"	27/8"	0.45
3/8" RU-BOLT	MS02-375-300-3625	3/8"	3".	3 5/8"	11/4"	33/8"	0.42
3/8" RU-BOLT	MS02-375-300-425	3/8"	3"	41/4"	2"	3 3/8"	0.50
3/8" RU-BOLT	MS02-375-300-6625	3/8"	3	.8/5 9	3	3 3/8"	0.53
3/8" RU-BOLT	MS02-375-350-4125	3/8"	31/2"	41/8"	11/4"	37/8"	0.46
3/8" RU-BOLT	MS02-375-350-475	3/8"	31/2"	43/4"	2"	3 7/8"	0.50
3/8" RU-BOLT	MS02-375-400-575	3/8"	<u>*</u> +	5 3/4"	21/2"	43/8"	0.60

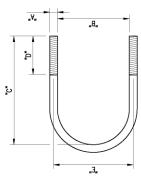
1/2" RU-BOLT	MS02-500-75-350	1/2"	3/4"	31/2"	21/2"	11/4"	0.60
1/2" RU-BOLT	MS02-500-1563-350	1/2"	19/16"	3 1/2"	2,,	2 1/16"	0.62
1/2" RU-BOLT	MS02-500-200-300	1/5"	2"	3"	11/4"	2 1/2"	0.55
1/2" RU-BOLT	MS02-500-200-375	1/2"	2"	33/4"	13/4"	2 1/2"	29'0
1/2" RU-BOLT	MS02-500-20625-500	1/2"	21/16"	2	3"	2 9/16"	0.80
1/2" RU-BOLT	MS02-500-225-450	1/2"	21/4"	41/2"	21/2"	23/4"	0.76
1/2" RU-BOLT	MS02-500-2438-3625	1/2"	27/16"	35/8"	13/4"	2 15/16"	29'0
1/2" RU-BOLT	MS02-500-2438-5375	1/2"	27/16"	5 3/8"	3"	2 15/16"	98'0
1/2" RU-BOLT	MS02-500-250-400	1/5"	21/2"	4"	21/2"	3"	0.70
1/2" RU-BOLT	MS02-500-250-450	1/5"	21/2"	41/2"	21/2"	3"	0.76
1/2" RU-BOLT	MS02-500-29375-575	1/2"	2 15/16"	5 3/4"	3,1	37/16"	0.92
1/2" RU-BOLT	MS02-500-300-4125	1/2"	3,	41/8"	2"	3 1/2"	0.74
1/2" RU-BOLT	MS02-500-300-450	1/2"	3,	41/2"	15/8"	3 1/2"	0.73
1/2" RU-BOLT	MS02-500-300-500	1/2"	3"	5,,	21/2"	3 1/2"	0.84
1/2" RU-BOLT	MS02-500-350-500	1/2"	31/2"	2,	11/2"	4"	0.78
1/2" RU-BOLT	MS02-500-350-850	1/2"	31/2"	8 1/2"	3,	4"	1.09
1/2" RU-BOLT	MS02-500-3625-550	1/2"	35/8"	5 1/2"	3,,	4 1/8"	1.10
1/2" RU-BOLT	MS02-500-3625-600	1/2"	35/8"	.9	21/2"	4 1/8"	0.97
1/2" RU-BOLT	MS02-500-3563-450	1/5"	39/16"	41/2"	2"	4 1/16"	0.80
1/2" RU-BOLT	MS02-500-3563-650	1/2"	39/16"	61/2"	3,1	41/16"	1.02
1/2" RU-BOLT	MS02-500-400-550-B	1/2"	4"	5 1/2"	11/2"	4 1/2"	0.84
1/2" RU-BOLT	MS02-500-400-550	1/2"	4"	5 1/2"	2".	4 1/2"	0.92
1/2" RU-BOLT	MS02-500-4063-700	1/2"	41/16"	7"	3"	49/16"	1.09
1/2" RU-BOLT	MS02-500-4125-600	1/2"	41/8"	.9	21/2"	45/8"	0.98
1/2" RU-BOLT	MS02-500-450-600	1/2"	41/2"	.9	11/2"	5,,	0.89
1/2" RU-BOLT	MS02-500-4625-700	1/5"	45/8"	٦,,	21/2"	5 1/8"	1.11
1/2" RU-BOLT	MS02-500-4563-750	1/2"	49/16"	7 1/2"	3,,	5 1/16"	1.16
1/2" RU-BOLT	MS02-500-5625-725	1/2"	55/8"	71/4"	2,,	6 1/8"	1.04
1/2" RU-BOLT	MS02-500-4563-575	1/2"	49/16"	5 3/4"	2"	5 1/16"	0.97
1/2" RU-BOLT	MS02-500-5563-700	1/2"	59/16"	٦,	2"	61/16"	1.14
1/2" RU-BOLT	MS02-500-575-750	1/2"	53/4"	71/2"	21/2"	61/4"	1.22
1/2" RU-BOLT	MS02-500-6625-800	1/2"	.8/59	80	3,	7 1/8"	1.28
1/2" RU-BOLT	MS02-500-675-850	1/2"	63/4"	8 1/2"	21/2"	7 1/4"	1.17
1/2" RU-BOLT	MS02-500-675-8375	1/2"	63/4"	8 3/8"	2,,	7 1/4"	1.24
1/2" RU-BOLT	MS02-500-8750-1025	1/2"	83/4"	10 1/4"	3"	91/4"	1.60
1/2" RU-BOLT	MS02-500-875-10375	1/2"	83/4"	10 3/8"	2,,	91/4"	1.34
1/2" RU-BOLT	MS02-500-10875-1300	1/2"	107/8"	1-1"	'n.	11.3/8"	1.98

ES:

IF EQUIVALENT U-BOLTS ARE USED, THE FOLLOWING SPECIFICATIONS ARE REQUIRED:

- 1. THE MATERIAL SHALL BE HOT ROLLED STEEL WITH A MINIMUM YIELD STRENGTH OF 36 KSI.
- 2. ALL U-BOLTS SHALL BE HOT DIP GALVANIZED PER ASTM 4153-78.
- 3. TOLERANCE: FOR "C" AND "D" +/- 1/16", "B" AND "E" + 1/16", "A" +/- 1/32".

For Reference Only



 $m V_ZW$ SMART Tool $^{\odot}$

Vendor

	STANDAR	STANDARD RU-BOLT CHART	HART				
DESCRIPTION	(EQUIVALENT PART NO.)	"A"	"B"	"C"	"D"	"ā"	"WG
5/8" RU-BOLT	MS02-625-200-375	.8/9	2"	33/4"	2"	2 5/8"	1.1
5/8" RU-BOLT	MS02-625-2063-500	.8/9	21/16"	5"	3"	2 11/16"	1.3
5/8" RU-BOLT	MS02-625-2438-5375	.8/9	27/16"	5 3/8"	3"	3 1/16"	1.4
5/8" RU-BOLT	MS02-625-250-400	.8/5	2 1/2"	4"	2 1/2"	3 1/8"	1.1
5/8" RU-BOLT	MS02-625-2625-450	.8/9	2 5/8"	4 1/2"	2"	3 1/4"	1.2
5/8" RU-BOLT	MS02-625-2563-550	.8/9	29/16"	5 1/2"	3"	33/16"	1.4
5/8" RU-BOLT	MS02-625-2938-5875	.8/9	215/16"	27/8"	3"	3 9/16"	1.5
5/8" RU-BOLT	MS02-625-300-400	.8/9	3"	4"	2"	3 5/8"	1.2
5/8" RU-BOLT	MS02-625-300-500	.8/9	3"	5"	3"	3 5/8"	1.3
5/8" RU-BOLT	MS02-625-3063-600	.8/9	31/16"	.9	3"	3 11/16"	1.5
5/8" RU-BOLT	MS02-625-3625-600	.8/9	35/8"	.9	3"	4 1/4"	1.4
5/8" RU-BOLT	MS02-625-3563-650	2/8	39/16"	6 1/2"	3"	43/16"	1.6
5/8" RU-BOLT	MS02-625-4063-700	.8/9	41/16"	7"	3"	4 11/16"	1.7
5/8" RU-BOLT	MS02-625-4125-600	.8/9	4 1/8"	.9	3"	4 3/4"	1.6
5/8" RU-BOLT	MS02-625-4625-700	2/8"	4 5/8"	7"	3"	5 1/4"	1.6
5/8" RU-BOLT	MS02-625-4563-750	.8/9	49/16"	7 1/2"	3"	53/16"	1.8
5/8" RU-BOLT	MS02-625-4813-775	2/8	413/16"	73/4"	3,,	57/16"	1.9
5/8" RU-BOLT	MS02-625-500-700	.8/5	5"	7"	3"	5 5/8"	1.9
5/8" RU-BOLT	MS02-625-5063-800	2/8"	51/16"	150	3"	5 11/16"	1.9
5/8" RU-BOLT	MS02-625-5625-85625	2/8	5 5/8"	89/16"	3"	6 1/4"	2.1
5/8" RU-BOLT	MS02-625-575-800	.8/9	5 3/4"	8	3"	6 3/8"	2.0
5/8" RU-BOLT	MS02-625-6688-9625	2/8	611/16"	95/8"	3,,	75/16"	2.3
5/8" RU-BOLT	MS02-625-6750-900	.8/9	63/4"	6	3,,	7 3/8"	2.2
5/8" RU-BOLT	MS02-625-8688-11625	2/8"	8 11/16"	115/8"	3"	93/16"	2.8
5/8" RU-BOLT	MS02-625-875-1100	2/8	83/4"	11,	3,	93/8"	7.7
5/8" RU-BOLT	MS02-625-10688-1375	2/8	10 13/16	13 3/4"	3,,	11 7/16"	3.2
5/8" RU-BOLT	MS02-625-12875-1575	2/8"	12 7/8"	15 3/4"	3"	13 1/2"	3.7.
5/8" RU-BOLT	MS02-625-14125-1700	2/8	141/8"	17"	3"	14 3/4"	4.0

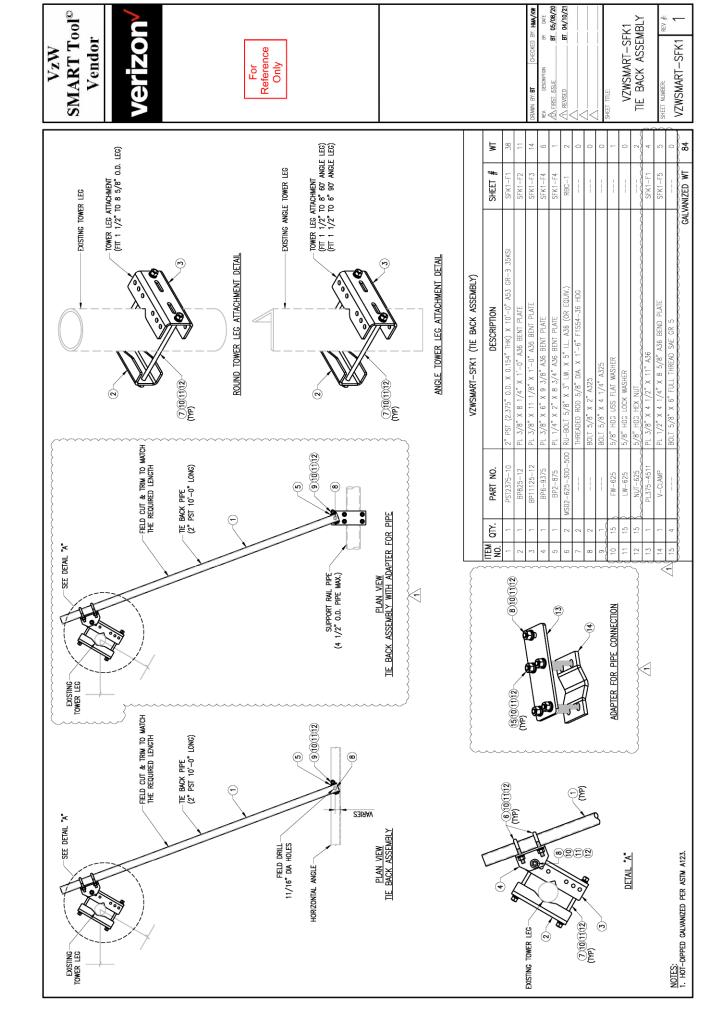
BY DATE H.R 05/08/20

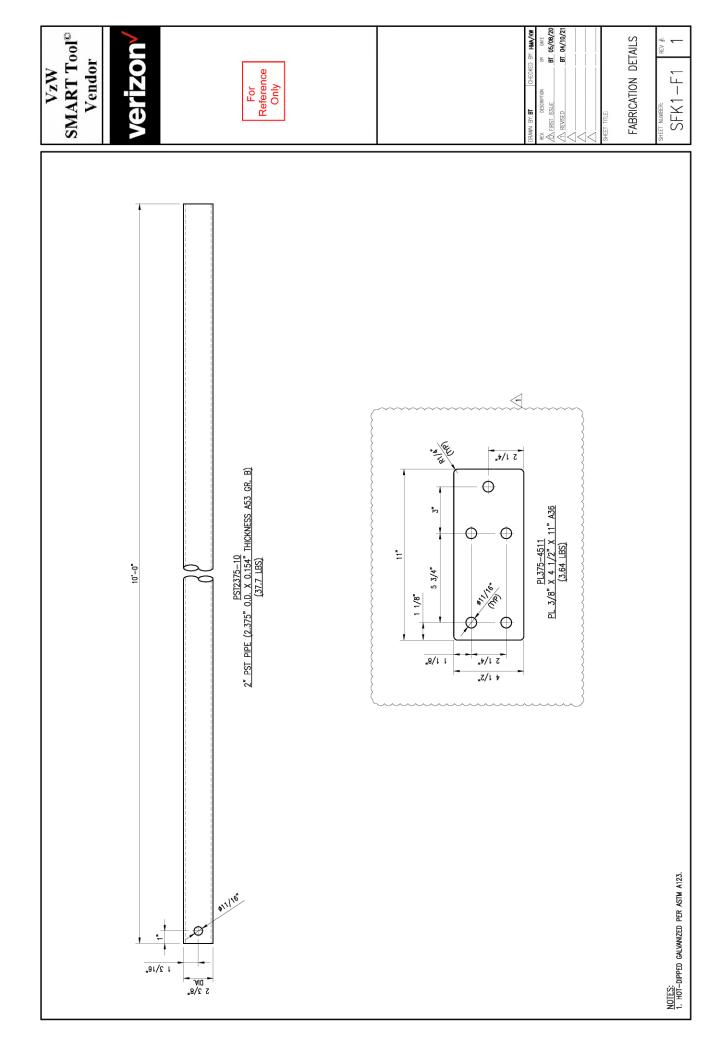
ON FIRST ISSUE

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RBC-1

RU-BOLT CHART





 $\frac{\mathrm{VzW}}{\mathrm{SMART}\;\mathrm{Tool}^{\varpi}}$ Vendor For Reference Only <u>"</u>8/£ AFTER BENDING 2 5/8" 2 5/8" _8/l∓ _8/£ ⊅ —#11/16" HOLE (TYP) 3 7/16" BP825-12 PL 3/8" X 8 1/4" X 1'-0" A36 BENT PLATE (10.67 LBS) BEFORE BENDING BENO_LINE 5 1/8" 1.0 **.**8/*L* .9 3 7/16" \Diamond .**⊅/**↓ ፘ .t/t Z "8/1 + "8/l ≯ **.**⊅/1 8

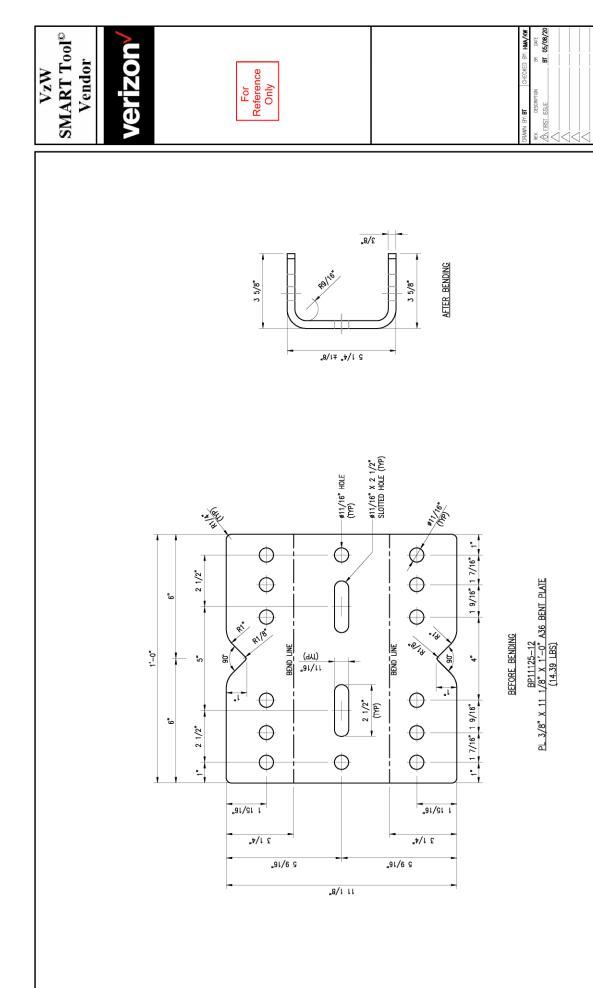
NOTES: 1. HOT—DIPPED GALVANIZED PER ASTM A123.

BY DATE BT 05/08/20

FABRICATION DETAILS

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SFK1-F2

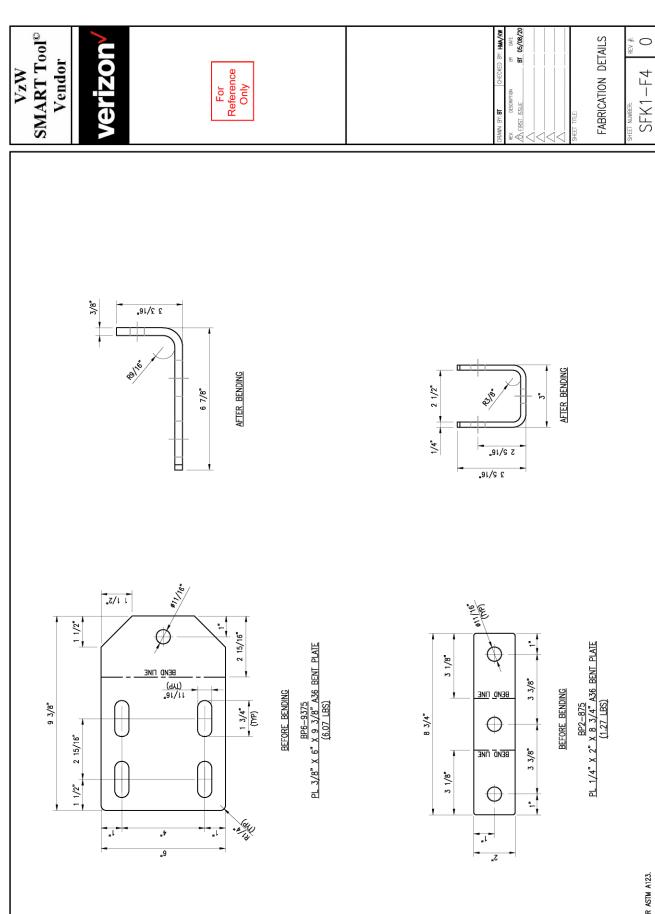


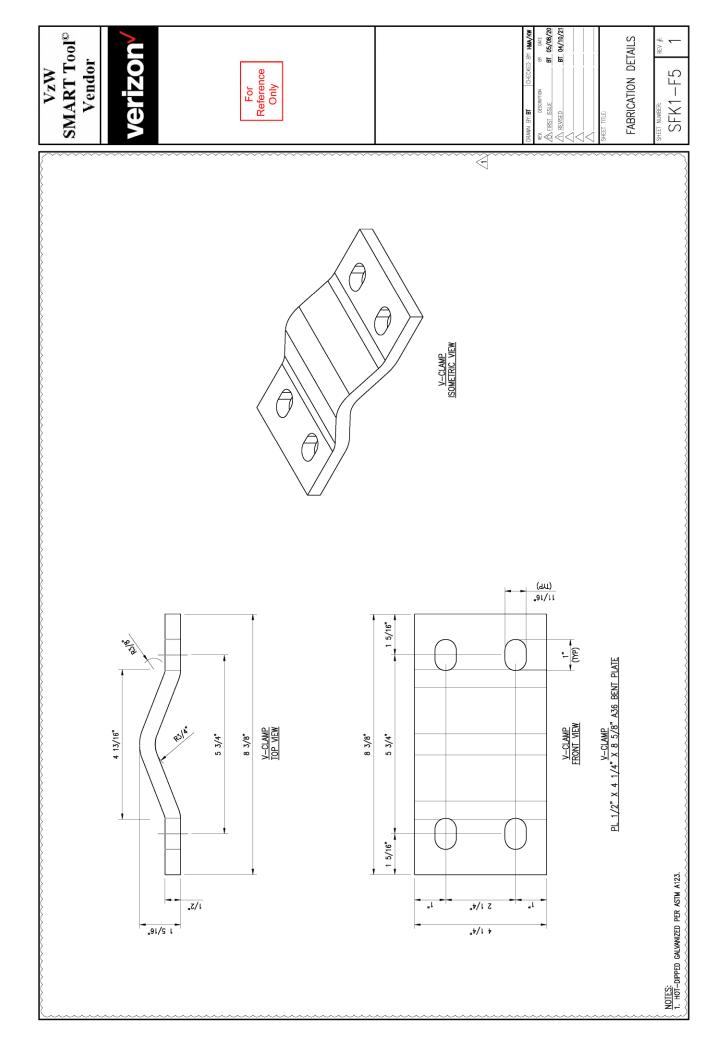
NOTES: 1. HOT—DIPPED GALVANIZED PER ASTM A123.

FABRICATION DETAILS

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SFK1-F3





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	"L9M"	0.26	0:30	0:30	0.27	0.32	0.34	0.35	0.34	0.34	0.40	0.36	0.38	0.37	0.45	0.45	0.50	0.53	0.46	0.50	09:0	
	"E"	13/16"	13/8"	15/8"	11/2"	17/8"	17/8"	17/8"	2 1/8"	2 3/8"	2-3/8"	21/2"	2 7/8"	2 7/8"	2 7/8"	3 3/8"	33/8"	3 3/8"	3 7/8"	3 7/8"	4 3/8"	
	"D"	.8/L	11/4"	11/4"	11/4"	11/4"	15/8"	13/4"	11/8"	11/4"	1-1/4"	11/4"	11/4"	11/4"	13/4"	11/4"	2"	3	11/4"	2"	21/2"	
	"J"	15/8"	2 1/4"	2 1/4"	113/16"	2 1/2"	23/4"	3"	2 3/4"	2 5/8"	3"	3"	31/16"	3 1/8"	3-5/8"	3 5/8"	41/4"	.8/59	41/8"	43/4"	5 3/4"	
1ART	"B"	13/16"	1,,	11/4"	11/8"	11/2"	11/2"	11/2"	13/4"	2"	2"	21/8"	21/2"	21/2"	21/2"	3,	3,,	3	31/2"	31/2"	4"	
STANDARD RU-BOLT CHART	"A"	.,8/£	.8/8	3/8"	3/8"	3/8"	.8/8	.8/8	3/8"	.,8/£	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	
STANDARE	(EQUIVALENT PART NO.)	MS02-375-8125-1625	MS02-375-100-225	MS02-375-125-225	MS02-375-1125-18125	MS02-375-150-250	MS02-375-150-275	MS02-375-150-300	MS02-375-175-275	MS02-375-200-2625	MS02-375-200-125	MS02-375-2125-300	MS02-375-250-30625	MS02-375-250-3125	MS02-375-250-3625	MS02-375-300-3625	MS02-375-300-425	MS02-375-300-6625	MS02-375-350-4125	MS02-375-350-475	MS02-375-400-575	
	DESCRIPTION	3/8" RU-BOLT	3/8" RU-BOLT	3/8" RU-BOLT	3/8" RU-BOLT	3/8" RU-BOLT	3/8" RU-BOLT	3/8" RU-BOLT	3/8" RU-BOLT	3/8" RU-BOLT	3/8" RU-BOLT	3/8" RU-BOLT	3/8" RU-BOLT	3/8" RU-BOLT	3/8" RU-BOLT	3/8" RU-BOLT	3/8" RU-BOLT	3/8" RU-BOLT	3/8" RU-BOLT	3/8" RU-BOLT	3/8" RU-BOLT	

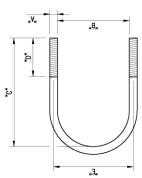
1/2" RU-BOLT	MS02-500-75-350	1/2"	3/4"	31/2"	21/2"	11/4"	0.60
1/2" RU-BOLT	MS02-500-1563-350	1/2"	19/16"	3 1/2"	2"	2 1/16"	0.62
1/2" RU-BOLT	MS02-500-200-300	1/2"	2"	3"	11/4"	2 1/2"	0.55
1/2" RU-BOLT	MS02-500-200-375	1/2"	2"	33/4"	13/4"	2 1/2"	0.67
1/2" RU-BOLT	MS02-500-20625-500	1/2"	21/16"	5	3"	29/16"	0.80
1/2" RU-BOLT	MS02-500-225-450	1/2"	21/4"	41/2"	21/2"	23/4"	0.76
1/2" RU-BOLT	MS02-500-2438-3625	1/2"	27/16"	35/8"	13/4"	2 15/16"	0.67
1/2" RU-BOLT	MS02-500-2438-5375	1/2"	27/16"	53/8"	3"	2 15/16"	0.86
1/2" RU-BOLT	MS02-500-250-400	1/2"	21/2"	4"	21/2"	3"	0.70
1/2" RU-BOLT	MS02-500-250-450	1/2"	21/2"	4 1/2"	21/2"	3"	0.76
1/2" RU-BOLT	MS02-500-29375-575	1/2"	2 15/16"	5 3/4"	3"	37/16"	0.92
1/2" RU-BOLT	MS02-500-300-4125	1/2"	3,,	41/8"	2".	3 1/2"	0.74
1/2" RU-BOLT	MS02-500-300-450	1/2"	3"	41/2"	15/8"	3 1/2"	0.73
1/2" RU-BOLT	MS02-500-300-500	1/2"	3"	5"	21/2"	3 1/2"	0.84
1/2" RU-BOLT	MS02-500-350-500	1/2"	31/2"	5"	11/2"	4"	0.78
1/2" RU-BOLT	MS02-500-350-850	1/2"	31/2"	8 1/2"	3,	4"	1.09
1/2" RU-BOLT	MS02-500-3625-550	1/2"	35/8"	5 1/2"	3,,	4 1/8"	1.10
1/2" RU-BOLT	MS02-500-3625-600	1/2"	35/8"	9	21/2"	4 1/8"	0.97
1/2" RU-BOLT	MS02-500-3563-450	1/5"	39/16"	41/2"	2"	41/16"	0.80
1/2" RU-BOLT	MS02-500-3563-650	1/2"	39/16"	6 1/2"	3,,	41/16"	1.02
1/2" RU-BOLT	MS02-500-400-550-B	1/2"	4"	5 1/2"	11/2"	41/2"	0.84
1/2" RU-BOLT	MS02-500-400-550	1/2"	4"	5 1/2"	2".	41/2"	0.92
1/2" RU-BOLT	MS02-500-4063-700	1/2"	41/16"	7"	3"	49/16"	1.09
1/2" RU-BOLT	MS02-500-4125-600	1/2"	41/8"	.9	21/2"	4 5/8"	0.98
1/2" RU-BOLT	MS02-500-450-600	1/2"	41/2"	.9	11/2"	5"	0.89
1/2" RU-BOLT	MS02-500-4625-700	1/2"	45/8"	7"	21/2"	5 1/8"	1.11
1/2" RU-BOLT	MS02-500-4563-750	1/2"	49/16"	71/2"	3,,	5 1/16"	1.16
1/2" RU-BOLT	MS02-500-5625-725	1/2"	25/8"	71/4"	2,,	61/8"	1.04
1/2" RU-BOLT	MS02-500-4563-575	1/2"	49/16"	53/4"	2"	5 1/16"	0.97
1/2" RU-BOLT	MS02-500-5563-700	1/2"	59/16"	7"	2"	6 1/16"	1.14
1/2" RU-BOLT	MS02-500-575-750	1/2"	53/4"	71/2"	21/2"	61/4"	1.22
1/2" RU-BOLT	MS02-500-6625-800	1/2"	.8/59	100	3"	7 1/8"	1.28
1/2" RU-BOLT	MS02-500-675-850	1/2"	63/4"	8 1/2"	21/2"	7 1/4"	1.17
1/2" RU-BOLT	MS02-500-675-8375	1/2"	63/4"	83/8"	2"	71/4"	1.24
1/2" RU-BOLT	MS02-500-8750-1025	1/2"	83/4"	101/4"	3"	91/4"	1.60
1/2" RU-BOLT	MS02-500-875-10375	1/2"	83/4"	103/8"	2"	91/4"	1.34
1/2" RU-BOLT	MS02-500-10875-1300	1/2"	107/8"	1-1"	ž	11 3/8"	1.98

NOTES:

IF EQUIVALENT U-BOLTS ARE USED, THE FOLLOWING SPECIFICATIONS ARE REQUIRED:

- 1. THE MATERIAL SHALL BE HOT ROLLED STEEL WITH A MINIMUM YIELD STRENGTH OF 36 KSI.
- ALL U-BOLTS SHALL BE HOT DIP CALVANIZED PER ASTM 4153-78.

 TOLERANCE: FOR "C" AND "D" +/- 1/16", "B" AND "E" + 1/16", "A" +/- 1/32".



3.72 140 1117 1120 1120 1120 1120 1120 1145 1145 1146 1160 1160 1160 1160 1160 1160 1.96 1.99 2.02 2.35 75/16" 73/8" 93/16" 5 11/16" 93/8" 13 1/2" 33/16" 39/16" 35/8" 35/8" 311/16" 41/4" 43/16" 43/16" 53/16" 53/16" 5 5/8" 61/4" 8/89 89/16" 41/2" 92/8 17" 3" 3" 31/16" 31/16" 35/8" 611/16" 12 7/8" 41/16" 41/8" 45/8" 49/16" 413/16" 2 5/8" 51/16" 21/2" 53/4" STANDARD RU-BOLT CHART .8/9 2/8" 5/8" 2/8 5/8" 2/8 (EQUIVALENT PART NO.) MS02-625-2438-5375 MS02-625-250-400 MS02-625-2625-450 MKO2-625-2563-559 MKO2-625-3038-5875 MKO2-625-300-400 MKO2-625-300-500 MKO2-625-305-600 MKO2-625-305-600 MKO2-625-363-600 MKO2-625-363-600 MKO2-625-363-600 MKO2-625-4685-700 MKO2-625-4685-700 MKO2-625-4685-700 MKO2-625-4685-700 MS02-625-12875-1575 MS02-625-14125-1700 MS02-625-5625-85625 MS02-625-6688-9625 MS02-625-8688-11625 MS02-625-10688-1375 MS02-625-875-1100 MS02-625-500-700 MS02-625-5063-800 MS02-625-6750-900 MS02-625-575-800 1108-114.8/5 1108-114.8/5 1108-114.8/5 1108-114.8/5 1108-114.8/5 1108-114.8/5 1108-114.8/5 1108-114.8/5 1108-114.8/5 1108-114.8/5 1108-114.8/5 1108-114.8/5 1108-114.8/5 1108-114.8/5 5/8" RU-BOLT DESCRIPTION 5/8" RU-BOLT 5/8" RU-BOLI

BT 05/08/20

ON FIRST ISSUE

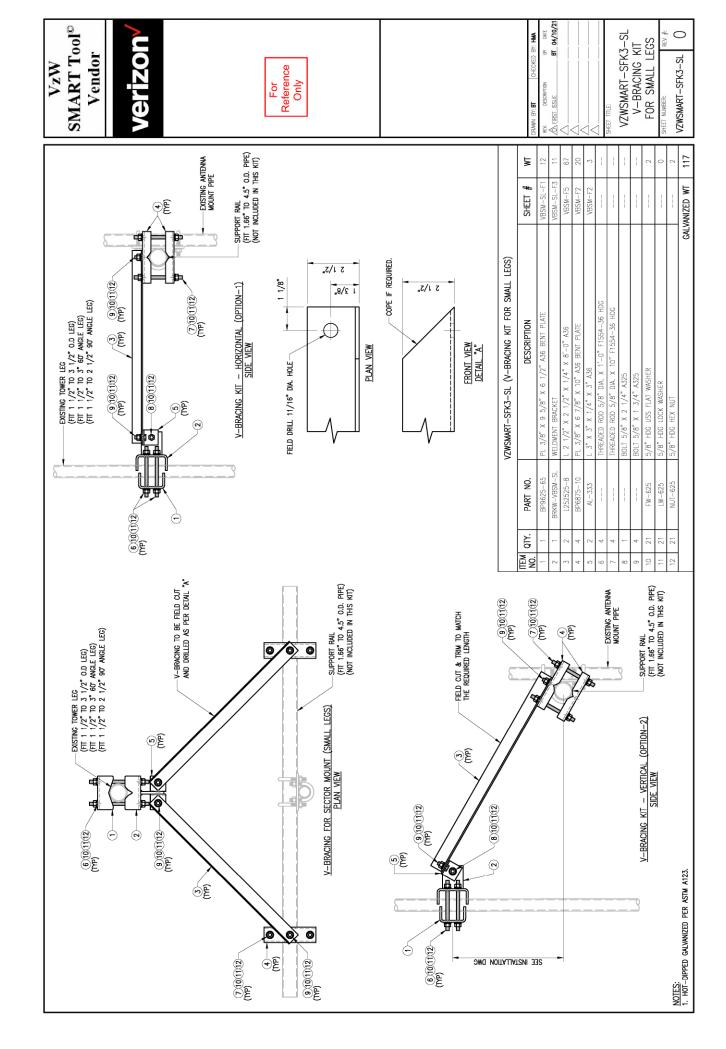
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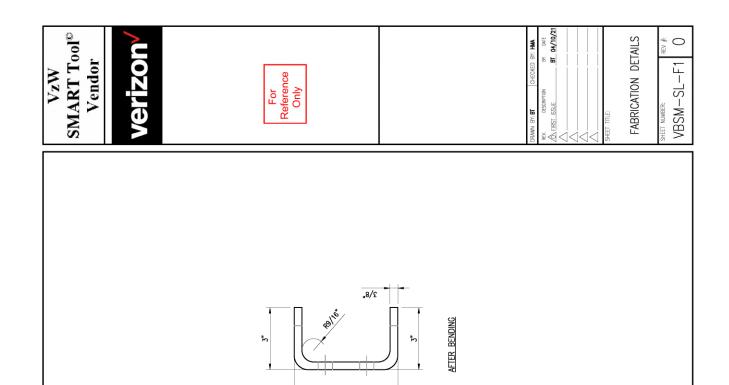
RBC-1

RU-BOLT CHART

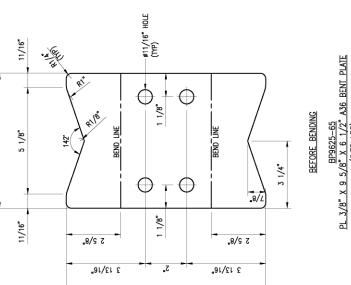
VzW SMART Tool[©] Vendor

For Reference Only





.8/lŦ .G

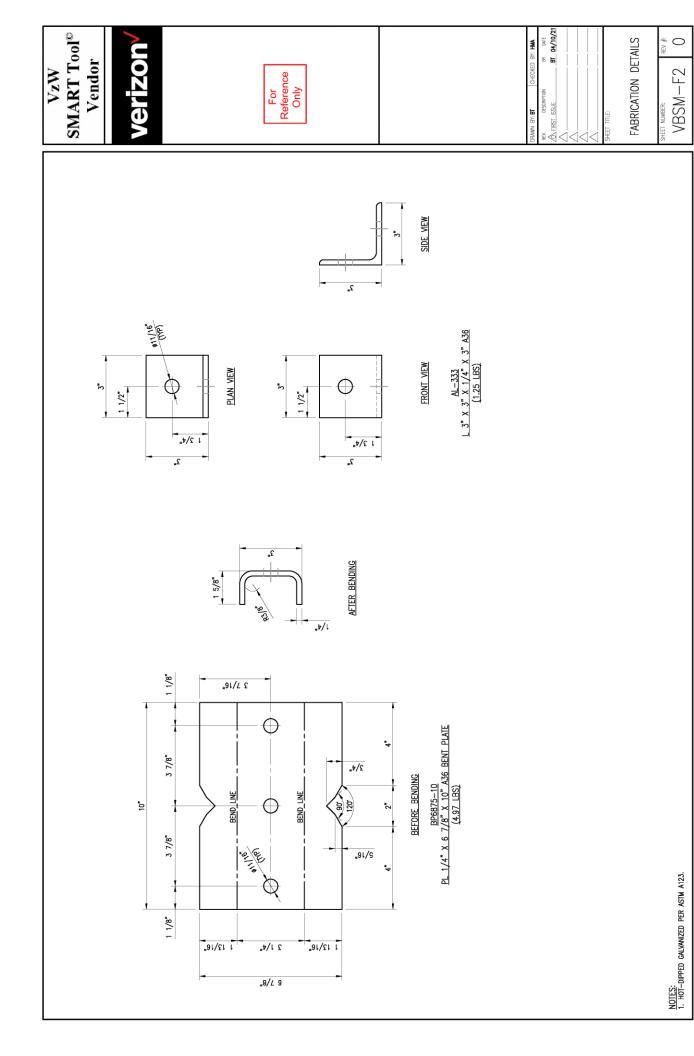


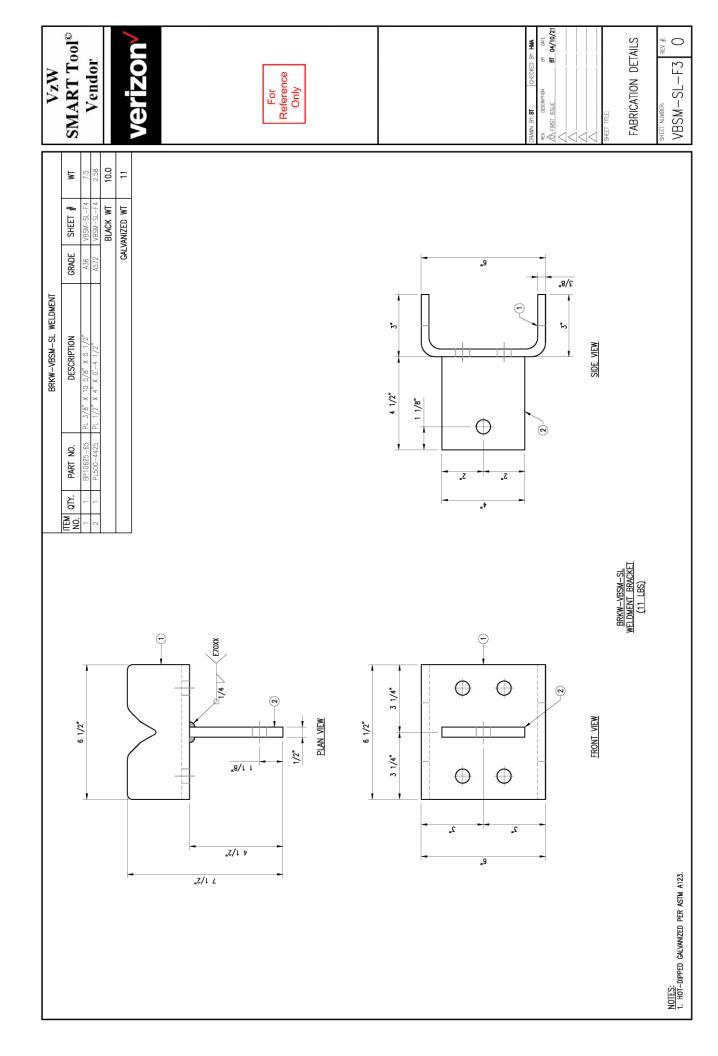
.8/9 6

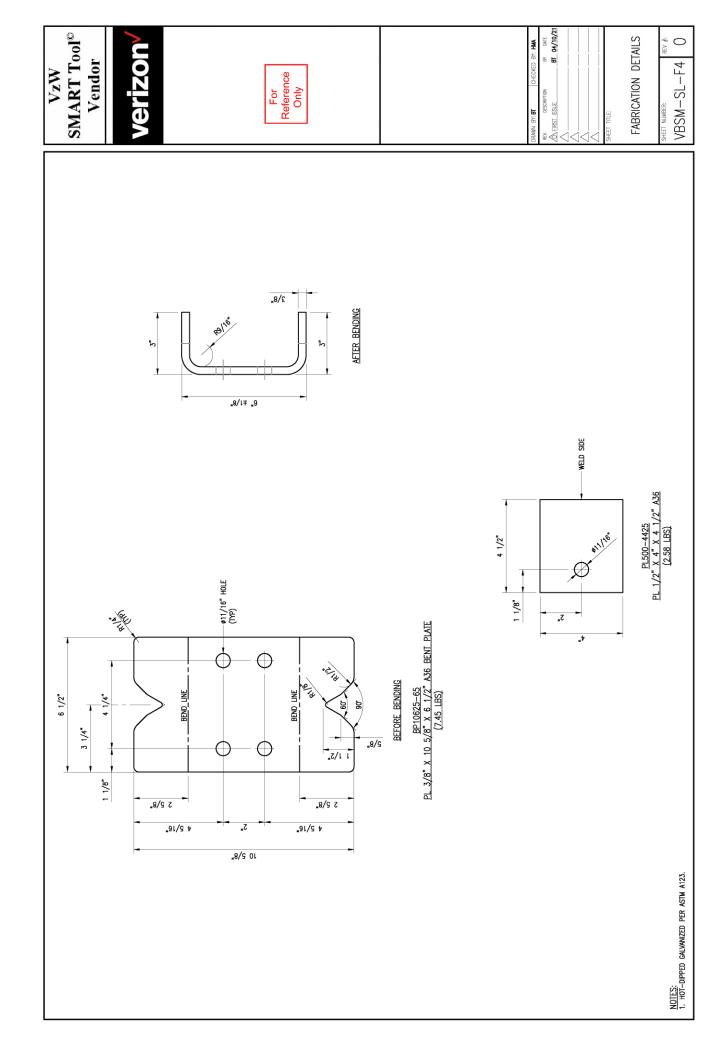
6 1/2"

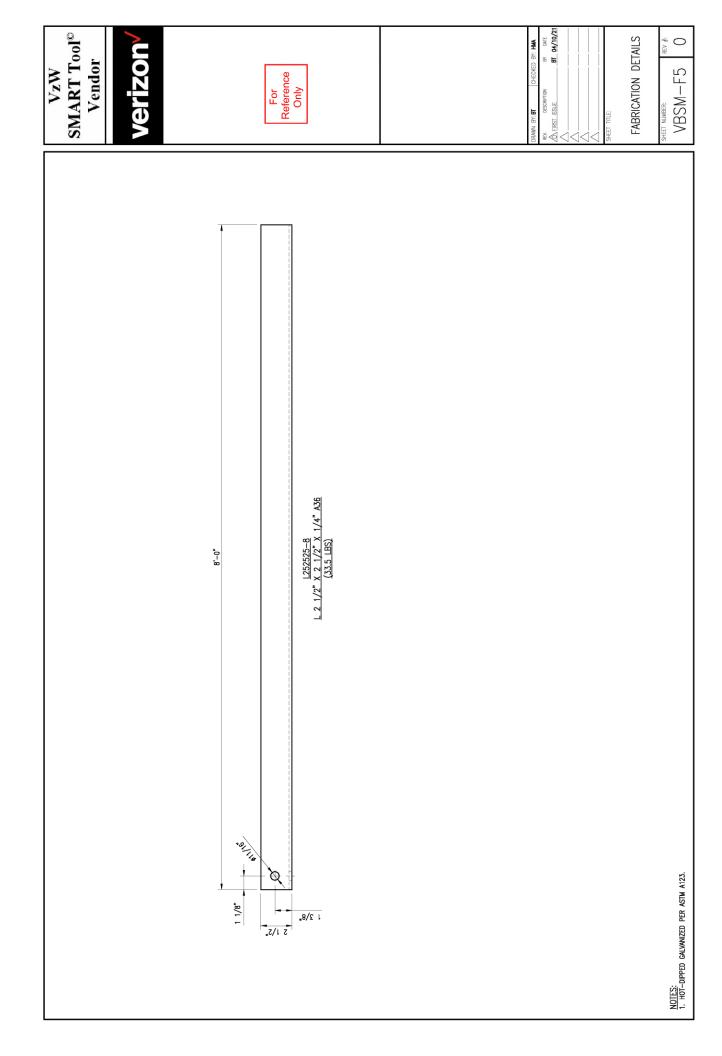
BP9625-65 PL 3/8" X 9 5/8" X 6 1/2" A36 BENT PLATE (6.75 LBS)

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









ATTACHMENT 5





Approximate Scale:

1 inch = 300 feet

Property Summary Information

Parcel Data And Values Building ▼ Outbuildings Sales Permits

Parcel Information

Location:	37 PEACH ORCHARD RD	Property Use:	Office	Primary Use:	Office Building
Unique ID:	C0048100	Map Block Lot:	101 106 37	Acres:	11.33
490 Acres:	0.00	Zone:	RA-1	Volume / Page:	0219/0152
Developers Map / Lot:		Census:	3472		

Value Information

	Appraised Value	Assessed Value
Land	132,605	92,820
Buildings	853,996	597,800
Detached Outbuildings	323,638	226,550
Total	1,310,239	917,170

Owner's Information

Owner's Data

COUNTERPOINT COMMUNICATIONS INC 37 PEACH ORCHARD RD PROSPECT, CT 06712

Back To Search

Print View

Borough of Naugatuck, Connecticut - Assessment Parcel Map Parcel Account Number: 011-3060 Address: 0 CLARK HILL RD K-20E138 #0 7.9Ac. Map Produced March 2019



Property Listing Report

Map Block Lot

K-20E138-A

Building #

PID

1697

Account

011-3060

Property Information

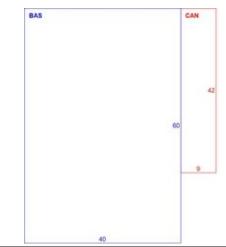
Property Location	0 CLARK	HILL RD		
Owner	TEGNA B	ROADCAST H	OLDIN	IGS LLC
Co-Owner				
Mailing Address	8350 BRC	AD STREET		
	TYSON	V	A	22102
Land Use	4330	RAD/TV TR		
Land Class	I			
Zoning Code	R15			
Census Tract				

Neighborhood	D
Acreage	7.9
Utilities	
Lot Setting/Desc	
Book / Page	1035/1
Additional Info	

Photo



Sketch



Primary Construction Details

-	
Year Built	1980
Building Desc.	RAD/TV TR
Building Style	Transmit Bldg
Building Grade	С
Stories	1
Occupancy	1.00
Exterior Walls	Pre-finsh Metl
Exterior Walls 2	Aluminum Sidng
Roof Style	Gable
Roof Cover	Metal/Tin
Interior Walls	Drywall
Interior Walls 2	NA
Interior Floors 1	Concrete
Interior Floors 2	

Electric
Forced Hot Air
Central
0
0
0
0
NA
NA
0
0

(*Industrial / Commercial Details)

, ,	
Building Use	Ind/Comm
Building Condition	F
Sprinkler %	NA
Heat / AC	HEAT/AC SPLIT
Frame Type	STEEL
Baths / Plumbing	AVERAGE
Ceiling / Wall	CEIL & WALLS
Rooms / Prtns	AVERAGE
Wall Height	12.00
First Floor Use	NA
Foundation	NA

Report Created On

3/29/2022

Town of Naugatuck, CT_

Property Listing Report

Map Block Lot

K-20E138-A

Building #

PID

1697

Account

011-3060

Valuation Summary (Assessed value = 70% of Appraised Value)				Sub Areas					
Item	Appraised		Assessed	Subarea Type		Gross Area (sq ft)		Living Area (sq f	
Buildings	258640		181050	First Floor		2400		2400	
Extras	0		0	Canopy		378		0	
Improvements									
Outbuildings	393320		275330						
Land	219000		153300						
Γotal	870960		609680						
Outbuilding ar	nd Extra F	eatures							
Type		Description	1						
CELL BLDG		264 S.F.							
CELL BLDG 140 S.F.		140 S.F.							
CELL BLDG		170 S.F.							
CELL BLDG		360 S.F.							
Fence 6 ft 500 L.		500 L.F.							
TV TOWER		280 HEIGHT							
TV TOWER 9		980 HEIGHT							
				Total Area		2778		2400	
Sales History									
Owner of Record			Book/ Page	Sale Date	Sale Date Sale Prio				
TRIBUNE BROADCASTING COMPANY LLC			1034/883	2019-09-	2019-09-30 0				
CT-WTIC LLC				1034/896	2019-09-	2019-09-30 10			
TEGNA BROADCAST HOLDINGS LLC			1035/1	2019-09-	2019-09-30 611632				
CHANNEL 20 INC C/O WTIC TV			0328/0466	1989-03-	1989-03-03 1800000				

ATTACHMENT 6



Name and Address of Sender TOTAL NO. TOTAL NO. Affix Stamp Here of Pieces Listed by Sender of Pieces Received at Post Office™ Postmark with Date of Receipt. Kenneth C. Baldwin, Esq. Robinson & Cole LLP 280 Trumbull Street Hartford, CT 06103 neopost Postmaster, per (name of receiving employee) USPS® Tracking Number **Address** Fee Special Handling Parcel Airlift Postage (Name, Street, City, State, and ZIP Code™) Firm-specific Identifier Robert Chatfield, Mayor Town of Prospect 36 Center Street Prospect, CT 06702 Mary Barton, Land Use Inspector Town of Prospect 36 Center Street Prospect, CT 06702 N. Warren "Pete" Hess III, Mayor 3. Borough of Naugatuck 229 Church Street Naugatuck, CT 06770 Lori Rotella, Town Planner Borough of Naugatuck 229 Church Street Naugatuck, CT 06770 Counterpoint Communications Inc. 37 Peach Orchard Road Prospect, CT 06712 Tegna Broadcast Holdings LLC 8350 Broad Street Tyson, VA 22102