NOTICE OF MEETING

VILLAGE OF FOX POINT
PLAN COMMISSION

SCHWEMER HALL - MUNICIPAL BLDG.
7200 N. SANTA MONICA BLVD
FOX POINT, WI 53217

Monday
January 5, 2026
5:45 P.M.

NOTE: the Plan Commission will be meeting in person at Village Hall, with a remote attendance option, per the hybrid meeting procedures further described in section 19-32 d. Of the Village code. This meeting is open to all citizens in person at Village Hall, or through the Zoom participant information shown below, subject to the following: no assurance is provided to those Plan Commission members and citizens intending to attend remotely that the technology will perform sufficiently to allow for their participation and the meeting will proceed regardless. Public officials and citizens wishing to ensure they can participate are encouraged to attend in person. Citizens are encouraged to submit any comments in writing in advance of the meeting to the Interim Village Manager at manager@villageoffoxpoint.com.

Zoom Participant Information
https://us02web.zoom.us/j/89048465030
Dial: (312) 626-6799
Meeting ID: 890 4846 5030

AGENDA

1. **Roll Call.**

2. **Approval of the minutes of the December 1, 2025 Plan Commission meeting.**

3. **Consideration of Conditional Use Permit Application for Past Basket**

   The Plan Commission will consider and may act on a Conditional Use Permit application regarding change of ownership for an existing business under Section 745-18D(1)(i) for a retail store, Past Basket, located at 383 W Brown Deer Road in the D Business District.

4. **Consideration and Possible Action Concerning Not-substantial Modification to Wireless Telecommunications Mobile Service Facilities at 7200 N. Santa Monica Blvd.**

   The Plan Commission will consider and may act on the application received from Ramaker & Associates, Inc., pursuant to Section 745-23(D)(2) of the Village Code, to modify the existing cell tower facility located at 7200 N. Santa Monica Blvd. in the Village of Fox Point, by increasing the height of the tower by 20 feet and collocating telecommunications facilities on the tower.

5. **Consideration and Possible Action Concerning a Possible License for use of Village-owned land at 7200 N. Santa Monica Blvd. for Collocation of Telecommunications Facilities**

   The Plan Commission will consider and may act to grant a License to Ramaker & Associates, Inc., and/or Verizon Wireless, granting the right to use Village-owned property for installation and operation of telecommunications facilities on a modified existing telecommunications tower.

6. **Adjourn.**

NEXT PLAN COMMISSION MEETING: Monday, February 2, 2026

PLEASE NOTE: Upon reasonable notice, efforts will be made to accommodate the needs of disabled individuals through sign language interpreters or other auxiliary aids. For additional information or to request these services, contact the Village Clerk at 351-8900. It is possible that members of, and possibly a quorum of members of, other governmental bodies of the municipality may be in attendance at the above stated meeting to gather information; no action will be taken by any governmental body at the above stated meeting other than the governmental body specifically referred to above in this notice.

Published and Posted: January 2, 2026

VILLAGE OF FOX POINT
PLAN COMMISSION MEETING MINUTES
December 1, 2025

A meeting of the Fox Point Plan Commission was held on Monday, December 1, 2025. Commissioner Symchych called the meeting to order at 5:49 p.m. and noted there was a quorum of Plan Commission members present.

The Plan Commission roll call was taken by Village Deputy Clerk Teri Repins:

Plan Commission: President Christine Symchych, Chairman – via zoom
Jay Craig, Commissioner
Ted Durant, Commissioner
William Langhoff, Commissioner
David Miller, Commissioner
Robert Smith, Commissioner
Jake Wilson, Commissioner

Staff present included Interim Village Manager Mitch Reynolds, Assistant Village Manager Kevin Ausman, Village Attorney Eric Larson, and Deputy Clerk Teri Repins.

Notice of the meeting was provided to the North Shore Now as necessary, and to all others as required by State open meetings laws and posted on the official bulletin board at 7200 N Santa Monica Boulevard, as well as the village website at www.villageoffoxpoint.com, as per 2015 Wisconsin Act 79 and as described in Village Ordinance Chapter 116-2, 116-2(C).

Approval of the Minutes of the September 2, 2025 Plan Commission Meeting

Motion by Commissioner Durant, seconded by Commissioner Miller, and carried unanimously with a roll call vote, 7-0, the Commission approved the minutes of the September 2, 2025 Plan Commission meeting.

Consideration of Conditional Use Permit Application for Acquisitions LLC, Riverpoint Shopping Center, 8643 N Port Washington Rd.

Motion by Commissioner Miller, seconded by Commissioner Durant, and carried unanimously by roll call vote, 7-0, the Commission recommends the Village Board approve the Conditional Use Permit Application for Acquisitions LLC to allow a retail consignment shop at the Riverpoint Shopping Center, 8643 N Port Washington Rd.

Consideration of Conditional Use Permit Application for WCL Construction, 8035 N Port Washington Rd.

Motion by Commissioner Durant, seconded by Commissioner Langhoff, and carried unanimously by roll call vote, 7-0, the Commission recommends the Village Board approve the Conditional Use Permit Application for WCL Construction, as identified in the staff memo and to include the eight conditions, on the property occupied by Billy Goat Roofing, 8035 N Port Washington Rd.

Consideration of F Institutional District Use Application for Destin's Childcare and Learning Academy LLC, 8223 N Port Washington Rd.

Motion by President Symchych, seconded by Commissioner Miller, and carried unanimously by roll call vote, 7-0, the Commission recommends the Village Board approve the F Institutional District Use Application to allow for Destin's Childcare and

Learning Academy LLC, *to operate a daycare center on the property owned by Congregation Sinai, 8223 N Port Washington Rd*., and that the Plan Commission *recommends the Village Board find that the application satisfies 745-20 that the daycare is in the appropriate location, compatible with the neighborhood, is not detrimental to the property values of surrounding property, and is in keeping with the residential character and quality of the Village; and recommends to follow the conditions represented in the staff memo to establish hours of operation, supply a parking plan, establish whether any outdoor operations will occur and obtain other required licenses, permits and approvals as listed*

Commissioner Craig announced his recusal and departed.

Consideration of Port Washington Overlay (PWO) Zoning District Application of John Degroote, for a Brewery/Taproom Concept, 8000 N Port Washington Rd.

Motion by Commissioner Durant, seconded by Commissioner Miller, the Plan Commission finds that the proposed development will be adequately served by off street parking in truck services, that the locations for entrances and exits have been designed to prevent unnecessary interference with the safety and efficiency to move traffic on surrounding streets and that the architectural design and landscaping, control of lighting and general site development will result in an attractive and harmonious service area compatible with the surrounding neighborhood. The Plan Commission recommends the Village Board approve the request for planned overlay subject to appropriate conditions regarding hours of operation, both for indoors and outdoors, hours, amplification and direction of any music and that they obtain all of the other licenses, permits and approvals.

Motion by Commissioner Miller, seconded by Commissioner Durant to amend the motion to include the Village Board find the project meets the intent of Section 745-22.5 and the adopted Comprehensive Plan and the Village Board accept the Plan Commission's determination that structural conditions exist on the site which support deviation of the Built-to Line requirement under section 745-22.5(D)(1)(b). There was unanimous consent to accept the amendment.

Amended motion carried unanimously by roll call vote 6-0

Adjourn

On motion of President Symchych, seconded by Commissioner Miller, and carried unanimously by roll call vote, 6-0, the Plan Commission meeting adjourned at 7:25 p.m.

Respectfully submitted,

Teri Repins

Village Deputy Clerk

Published and Posted: January 6, 2026

VILLAGE OF FOX POINT

MILWAUKEE COUNTY

WISCONSIN

VILLAGE HALL
7200 N. SANTA MONICA BLVD.
FOX POINT WI 53217-3505
414-351-8900
FAX 414-351-8909

To: Plan Commission

From: Kevin Ausman, Assistant Village Manager

CC: Mitch Reynolds, Interim Village Manager

Date: January 5, 2026

Re: Past Basket - CUP

Overview

Rick Cohen (on behalf of Lauren & Rose DBA Past Basket), has applied for conditional use approval regarding change of ownership for an existing business under Section 745-18D(1)(i) for a retail store, Past Basket, located at 383 W Brown Deer Road in the D Business District. The tenant space is located in the Audubon Court shopping center.

Background

Past Basket is an existing retail store located at 383 W Brown Deer Road.

Request

Section 745-18D(1)(i) of the Fox Point Municipal Code identifies retail and service stores as Conditional Use. The applicant has not indicated exterior modifications to the site, nor changes to the existing business operations. Hours of operation are Monday through Saturday, 9 AM – 6 PM.

Staff have determined sufficient parking within the Audubon Court shopping center to accommodate the three (average) employees and any patrons of the establishment.

Recommendation

Staff recommends that the Plan Commission recommend that the Village Board approve the conditional use request following a mandatory public hearing.

VILLAGE OF FOX POINT

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414-351-8900
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To: Plan Commission

From: Kevin Ausman, Assistant Village Manager

CC: Mitch Reynolds, Interim Village Manager
Eric Larson, Village Attorney
Scott Brandmeier, Director of Public Works
Michael Rakow, Building Inspector

Date: January 5, 2026

Re: Verizon Cell Tower

Overview

Ramaker and Associates have applied for approval to increase the height of the cell tower on property owned by the Village of Fox Point, 7200 N Santa Monica Blvd, located between Village Hall and the Municipal Pool parking lot.

Background

Per Wisconsin Statutes Section 66.0404(3) and Section 745- 23(D)(2)(d) of the Village Code, the Village must act on a telecommunication request no later than 45 days from the date the application was received to take final action on the zoning application, or it is deemed approved.

The subject property (Village Hall) is identified as F Institutional District and regulated by Section 745-20. All uses in this district are subject to a set of required standards and findings before the use can be permitted. Changes to state statutes in recent years have limited local control over telecommunication towers, and the standards of 745-20 F Institutional District are preempted by Wisconsin state law.

Wisconsin Statutes Section 66.0404(1)(s) defines a "substantial modification" to a cell tower structure as a change which increases the overall height more than 20 feet. The proposed height increase is exactly 20 feet, therefore classifying the request under State law as a class two collocation.

The existing tower resides on Village property, and as such, the existing license requires that any co-locator on the tower must enter a separate license agreement with the Village. No such license or terms have been proposed to Village Staff.

Request

Section 745-23 of the Fox Point Municipal Code "Wireless Telecommunications mobile service facilities," does identify a process for a class two collocation. This section mirrors state law in that the Plan

Commission and Village Board must make a determination within 45 days. However, the 45-day time limit only applies to zoning approval; not the issue of a license.

Recommendation

There are two items within this request that run parallel to each other; the zoning approval and the negotiation over a license (which has not yet been proposed).

Unlike other sections of the Fox Point Municipal Code in regards to use approvals, Section 745-23 (regarding the class two collocation) does not establish conditions or standards that must be met by the Plan Commission. If the cell tower modification and collocation is recommended for approval, it should be made subject to the applicant obtaining a license for the use from the property owner.

PER THE INTERNATIONAL BUILDING CODE THIS STRUCTURE IS CLASSIFIED AS:

1. CONSTRUCTION TYPE II-B (TABLE 601)
2. GROUP U OCCUPANCY (SECTION 312.1 UNOCCUPIED TOWER SITE)

MODIFICATION AND DESIGN DRAWINGS FOR AN EXISTING 99' SABRE MONOPOLE W/ PROPOSED 20' EXTENSION

PROPOSED CARRIER: VERIZON

SITE: WI0005864-UNT / LOMBARDY

COORDINATES (LATITUDE: 43.145944°, LONGITUDE: -87.901361°)

Stacey Hesselbein, P.E.

Digitally signed by Stacey Hesselbein, P.E.
Date: 2025.09.29 16:38:51 -05'00'

PLEASE NOTE THIS SET OF DRAWINGS IS FOR INSTALLATION AND ASSEMBLY ONLY. FABRICATION DETAIL DRAWINGS ARE NOT PROVIDED AND MUST BE COMPLETED BY THE STEEL FABRICATOR SELECTED. TES CAN PROVIDE THE FABRICATION DETAIL DRAWINGS FOR AN ADDITIONAL FEE.

NOTE:

1. THE MODIFICATION DRAWINGS ARE BASED ON THE TES PROJECT NO. 162870, DATED 09/12/25.

SHEET	SHEET TITLE	REV
TT-1	TITLE SHEET	0
TBOM	BILL OF MATERIALS	0
GN-1	GENERAL NOTES	0
TA-1	TOWER PROFILE	0
TA-2	MONOPOLE EXTENSION INSTALLATION DETAILS	0
TA-3	STEP BOLT WORKING ELEVATION DETAILS	0
GM1-1	NEXGEN2 BLIND BOLT ASSEMBLY INSTALLATION GUIDE	0
GM2-1	NEXGEN2 BLIND BOLT ASSEMBLY INSTALLATION GUIDE	0

TES
A CONGRUEX® COMPANY
1320 GREENWAY DRIVE, SUITE 600
IRVING, TX 75038
PHONE: (972) 483-0607

HARMONI TOWERS
Connecting America

TES JOB NO:
163033

CUSTOMER SITE NO:
WI0005864-UNT
CUSTOMER SITE NAME:
LOMBARDY
7200 N SANTA MONICA BLVD
FOX POINT, WI 53217

WISCONSIN
STACEY ELAINE HESSELBEIN
E-100560-6
FORT WORTH, TX
PROFESSIONAL ENGINEER

09/29/2025

DRAWN BY: CDL | CHECKED BY: JRL/DD

REV	DESCRIPTION	BY	DATE
0	FIRST ISSUE	CDL	09/29/25

SHEET TITLE:
TITLE SHEET

SHEET NUMBER: TT-1 | REV #: 0

BILL OF MATERIALS

QUANTITY COUNTED	QUANTITY PROVIDED	PART NUMBER	DESCRIPTIONS	LENGTH	SHEET LIST (INSTALLATION)	SHEET LIST (FABRICATE)	PIECE WEIGHT (LBS)	WEIGHT (LB)	NOTES
			MATERIAL & HARDWARE						
			Following Items are Non-standard Parts						
1	1	MPE-18-20W	MONOPOLE SECTION WELDMENT (PIPE HSS18.000X0.375 X 20'-0") A500 GR-B (42 KSI) (GALVANIZED)	---	TA-2	F-1	1815.45	1815.5	Galvanized
1	1	CPL-18	TOP CAP PLATE PL 3/16" X 2'-0 1/2" DIA. A36 (GALVANIZED)	---	TA-2	F-3	25	25.0	Galvanized
12	14	---	BOLT 1" X 4 3/4" A325 W/ NUT-FW EA.	---	TA-2	---	1.8	25.2	Galvanized
2	4	---	BOLT 1" X 3 1/2" A325 W/ NUT-FW EA.	---	TA-2	---	1.52	6.08	Galvanized
1	1	FP-18	FLANGE PLATE PL 1 1/2" X 2'-0 1/2" DIA. A572-50	---	TA-2	F-3	142	142.0	Galvanized
26	28	STEP BOLT	STEP BOLT 5/8" X 7 1/2" W/ (2) NUT-LKW EA.	---	TA-2	---	---	---	Galvanized
4	4	PV-CMX-CG-BO	SAFETY CLIMB CABLE GUIDE L-STYLE (PERFECT VISION)	---	TA-2	---	---	---	Galvanized
1	1	PV-CMX-38SS7X19-150	CLIMB-MAXX Stainless Steel Cable Assembly w/ ID Tag, 150'	---	TA-2	---	---	---	Galvanized
1	1	PV-CMX-B	ClimbMaxx Top Attenuator & Bottom Tensioner Assembly	---	TA-2	---	---	---	Galvanized
1	1	PV-CMX-XT8	CLIMB-MAXX Stand-off Extension Kit	---	TA-2	---	---	---	Galvanized
2	2	H42-0501-06-K	Wire Rope Standoff Bracket Kit, w/ Guide and Tether	---	TA-2	---	---	---	Galvanized
1	1	PV-CMX-P-BA-BO	CLIMB-MAXX Bottom Attachment for Vertical Welded Tab	---	TA-2	---	---	---	Galvanized
4	5	2SW011414400	ALLFASTENERS 1/4" X 4" X 4" SQUARE PLATE WASHER A36	---	TA-3	---	---	---	Galvanized
4	5	2NG2032	M20 X 75 NEXGEN2 BLIND BOLT ASSEMBLY	---	TA-3	---	---	---	Galvanized
4	5	2RCNGM20212A	ALLFASTENERS M20 X 3/4 X 2 1/2" STEP BOLT ADAPTER ASSEMBLY	---	TA-3	---	---	---	Galvanized

ALL APLXXXX, LPXXXX AND RLPXXXX ARE PATENTED PRODUCTS AND CANNOT BE FABRICATED BY THIRD PARTIES. THESE PARTS ARE AVAILABLE FROM:
METROSITE, LLC.
180 IND PARK BLVD COMMERCE, GA 30529
OFFICE: (706) 335-7045
FAX: (706) 335-7056

NOTE: ALL MATERIALS, WHICH WEREN'T LISTED IN THIS SHEET, ARE ASSUMED TO BE PROVIDED BY THE CONTRACTOR.

TOTAL WEIGHT (LBS) = **2013.7**

TES
A CONGRUEX COMPANY
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CUSTOMER SITE NAME:
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7200 N SANTA MONICA BLVD
FOX POINT, WI 53217

DRAWN BY: CDL | CHECKED BY: JRL/DD

REV.	DESCRIPTION	BY	DATE
0	FIRST ISSUE	CDL	09/29/25

SHEET TITLE:
BILL OF MATERIALS

SHEET NUMBER: TBOM | REV #: 0

GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH THE ANSI/TIA-222-G-2, ANSI/ASSP A10.48, AND ANY OTHER GOVERNING BUILDING CODES AND OSHA SAFETY REGULATIONS.
2. ALL WORK INDICATED ON THE DRAWINGS SHALL BE PERFORMED BY QUALIFIED CONTRACTORS EXPERIENCED IN TELECOMMUNICATIONS TOWER, POLE AND FOUNDATION CONSTRUCTION.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND FABRICATION OF ALL MISCELLANEOUS PARTS (SUCH AS SHIMS), TEMPORARY SUPPORTS, AND GUYINGS, ETC., PER ANSI/ASSP A10.48, TO COMPLETE THE ASSEMBLY AS SHOWN IN THE DRAWINGS.
4. CONTRACTOR SHALL PROCEED WITH THE INSTALLATION WORK CAREFULLY SO THE WORK WILL NOT DAMAGE ANY EXISTING CABLE, EQUIPMENT OR THE STRUCTURE.
5. THE USE OF GAS TORCH OR WELDER, ARE NOT ALLOWED ON ANY TOWER STRUCTURE WITHOUT THE CONSENT OF THE TOWER OWNER.
6. GENERALLY THE CONTRACTOR IS RESPONSIBLE TO CONDUCT AN ONSITE VISIT SURVEY OF THE JOB SITE AFTER AWARD, AND REPORT ANY ISSUES WITH THE SITE TO **TES** BEFORE PROCEEDING CONSTRUCTION.

FABRICATION

1. ALL STEEL SHALL MEET OR EXCEED THE MINIMUM STRENGTH AS SPECIFIED IN THE DRAWINGS. IF YIELD STRENGTH WAS NOT NOTED IN THE DRAWINGS, CONTRACTORS SHALL CONTACT TES FOR DIRECTION.
2. ALL FIELD CUT EDGES SHALL BE GROUND SMOOTH. ALL FIELD CUT AND DRILLED SURFACES SHALL BE REPAIRED WITH A MINIMUM OF TWO COATS OF ZINCKOTE GALVANIZING COMPOUND PER ASTM A780 AND MANUFACTURER'S RECOMMENDATIONS.

WELDING

1. ALL WELDING SHALL BE PERFORMED BY AWS CERTIFIED WELDERS AND IN ACCORDANCE WITH THE LATEST EDITION OF THE AWS WELDING CODE D1.1. ALL ELECTRODES TO BE LOW HYDROGEN, MATCHING FILLER METAL, PER AWS D1.1, UNO. (E70XX UNLESS NOTED OTHERWISE).
2. PRIOR TO FIELD WELDING GALVANIZED MATERIAL, CONTRACTOR SHALL GRIND OFF GALVANIZING APPROX. 0.5" BEYOND THE PROPOSED FIELD WELD SURFACES.
3. ALL WELDS SHALL BE INSPECTED VISUALLY. A MINIMUM OF 25% OF WELDS SHALL BE INSPECTED WITH DYE PENETRANT OR MAGNETIC PARTICLE TO MEET THE ACCEPTANCE CRITERIA OF AWS D1.1. 100% OF WELDS SHALL BE INSPECTED IF DEFECTS ARE FOUND.
4. WELD INSPECTIONS SHALL BE PERFORMED BY AN AWS CERTIFIED WELD INSPECTOR.
5. AFTER INSPECTION, ALL FIELD WELDED SURFACES SHALL BE REPAIRED WITH A MINIMUM OF TWO COATS OF ZINCKOTE GALVANIZING COMPOUND PER ASTM A780 AND MANUFACTURER'S RECOMMENDATIONS.

BOLTED ASSEMBLIES AND TIGHTENING OF CONNECTIONS

1. ALL HIGH STRENGTH BOLTS SHALL CONFORM TO THE PROVISIONS OF THE SPECIFICATIONS FOR STRUCTURAL JOINTS USING A325 OR A490 BOLTS AS APPROVED BY THE RCSC.
2. FLANGE BOLTS SHALL BE TIGHTENED BY THE AISC "TURN-OF-THE-NUT" METHOD. THE FOLLOWING TABLE SHOULD BE USED FOR THE "TURN-OF-THE-NUT" TIGHTENING.
3. SPLICE BOLTS AND ALL OTHER BOLTS IN BEARING TYPE CONNECTIONS SHALL BE TIGHTENED TO A SNUG-TIGHT CONDITION.
4. THE SNUG-TIGHT CONDITION IS DEFINED AS THE TIGHTNESS ATTAINED BY EITHER A FEW IMPACTS OF AN IMPACT WRENCH OR THE FULL EFFORT OF AN IRONWORKER WITH AN ORDINARY SPUD WRENCH TO BRING THE CONNECTED PLIES INTO FIRM CONTACT.
5. HB HOLLO-BOLT SHALL BE INSTALLED PER CC ESR-3330 INSTRUCTIONS.

VERIFICATION AND INSPECTION

1. IF APPLICABLE, VERIFICATION INSPECTION TO BE PERFORMED SHALL BE IN ACCORDANCE TO IBC-2015 SECTION 1705 – FOR STEEL CONSTRUCTION & TABLE 1705.3 FOR CONCRETE CONSTRUCTION.

POST INSTALLED EPOXY INJECTED ANCHOR BOLTS:

1. CONCRETE MUST BE A MINIMUM OF 28 DAYS OLD.
2. FOLLOW MANUFACTURER'S REQUIREMENTS FOR CURE TIME VS. AMBIENT TEMPERATURE.
3. DRILL HOLE TO REQUIRED DIAMETER AND DEPTH. ALL WATER, DIRT, OIL, DEBRIS, GREASE OR DUST MUST BE REMOVED FROM EACH CORE HOLE. FOLLOW MANUFACTURER'S RECOMMENDATION FOR CORRECT TYPE OF CORE BIT. AVOID DAMAGING EXISTING REINFORCING STEEL OR OTHER EMBEDDED ITEMS. NOTIFY TES ENGINEERING IF VOIDS IN THE CONCRETE, REINFORCING STEEL OR OTHER EMBEDDED ITEMS ARE ENCOUNTERED. STOP CORING IMMEDIATELY IF THIS OCCURS.
4. A HOLE ROUGHENING DEVICE FROM EITHER HILTI OR ALLFASTENERS SHALL BE USED WITH ALL HOLES. FOLLOW ALL MANUFACTURER'S RECOMMENDED CORING AND INSTALLATION INSTRUCTIONS.
5. AFTER CORING AND ROUGHENING, FLUSH EACH HOLE WITH RUNNING WATER TO REMOVE ANY SLURRY OR DEBRIS. REMOVE ALL WATER FROM THE HOLE BY MECHANICAL PUMPING.
6. BRUSH EACH HOLE WITH AN APPROPRIATE SIZED NYLON BRUSH AND FLUSH WITH RUNNING WATER A SECOND TIME. REMOVE ALL WATER FROM THE HOLE.
7. AFTER THE SECOND WATER FLUSH BRUSH THE HOLE AGAIN WITH THE APPROPRIATE SIZED NYLON BRUSH.
8. BLOW EACH HOLE WITH COMPRESSED AIR TWO TIMES MINIMUM.
9. CONFIRM THAT EACH HOLE IS PROPERLY ROUGHED AND DRY.
10. NO EPOXY INJECTION SHALL TAKE PLACE IN RAINY CONDITIONS.
11. EPOXY SHOULD BE VISIBLE AT THE TOP OF THE CORE HOLE AFTER INSTALLATION.
12. CONTRACTOR TO SUPPLY ONE PHOTO OF EACH ROUGHED AND CLEANED HOLE IN CLOSEOUT PHOTO PACKAGE.

TABLE 8.2 NUT ROTATION FROM SNUG-TIGHT CONDITION FOR TURN-OF-NUT PRETENSIONING [a,b]

BOLT LENGTH [c]	DISPOSITION OF OUTER FACE OF BOLTED PARTS		
	BOTH FACES NORMAL TO BOLT AXIS	ONE FACE NORMAL TO BOLT AXIS, OTHER SLOPED NOT MORE THAN 1:20 [d]	BOTH FACES SLOPED NOT MORE THAN 1:20 FROM NORMAL TO BOLT AXIS [d]
NOT MORE THAN $4d_b$	1/3 TURN	1/2 TURN	2/3 TURN
MORE THAN $4d_b$ BUT NOT MORE THAN $8d_b$	1/2 TURN	2/3 TURN	5/6 TURN
MORE THAN $8d_b$ BUT NOT MORE THAN $12d_b$	2/3 TURN	5/6 TURN	1 TURN

[a] NUT ROTATION IS RELATIVE TO BOLT REGARDLESS OF THE ELEMENT (NUT OR BOLT) BEING TURNED. FOR REQUIRED NUT ROTATIONS OF 1/2 TURN AND LESS, THE TOLERANCE IS PLUS OR MINUS 30 DEGREES; FOR REQUIRED NUT ROTATIONS OF 2/3 TURN AND MORE, THE TOLERANCE IS PLUS OR MINUS 45 DEGREES.

[b] APPLICABLE ONLY TO JOINTS IN WHICH ALL MATERIAL WITHIN THE GRIP IS STEEL.

[c] WHEN THE BOLT LENGTH EXCEEDS $12d_b$, THE REQUIRED NUT ROTATION SHALL BE DETERMINED BY ACTUAL TESTING IN A SUITABLE TENSION CALIBRATOR THAT SIMULATES THE CONDITIONS OF SOLIDLY FITTING STEEL.

[d] BEVELED WASHER NOT USED.

SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS, JUNE 30, 2004 RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS

INSTALLATION TORQUE REQUIRED FOR HOLLO BOLTS AND AJAX BOLTS:

1. HB12 HOLLO BOLT: 59 FT-LBS
2. HB16 HOLLO BOLT: 140 FT-LBS
3. HB20 HOLLO BOLT: 221 FT-LBS
4. M20 AJAX BOLT: 280 FT-LBS.

FIELD HOT WORK PLAN NOTES:

FOLLOWING GUIDELINES SHALL BE COMPLIED WITH:

1. CONTRACTOR'S RESPONSIBILITY TO COMPLETE A HOT WORK PLAN IF AWARDED PER CUSTOMER SPECIFICATIONS GUIDELINES FOR WELDING, CUTTING & SPARK PRODUCING WORK.
2. HAVE A FIRE PLAN APPROVED BY THE CUSTOMER AND THEIR SAFETY MANAGEMENT DEPT.
3. CONTRACTOR MUST OBTAIN THE CONTACT INFO OF THE LOCAL FIRE DEPARTMENT AND THE 911 ADDRESS OF THE TOWER SITE BEFORE CONSTRUCTION.
4. CONTRACTOR SHALL MAKE SURE THAT CELL PHONE COVERAGE IS AVAILABLE IN THE TOWER SITE. IF CELL COVERAGE IS NOT AVAILABLE, AN IMMEDIATE AVAILABLE MEANS OF DIRECT COMMUNICATION WITH THE FIRE DEPARTMENT SHALL BE DETERMINED PRIOR TO CONSTRUCTION START.
5. ALL CONSTRUCTION SHALL BE PERFORMED UNDER WIND SPEED LESS THAN 10 MPH ON THE GROUND LEVEL. IF WIND SPEED INCREASE, CONTRACTOR MUST DETERMINE IF CONSTRUCTION SHALL BE DISCONTINUED.
6. FIRE SUPPRESSION EQUIPMENT MUST BE MADE AVAILABLE ON SITE AND READY TO USE.
7. CONTRACTOR SHALL ASSIGN A FIRE WATCHER TO PERFORM FIRE-FIGHTING DUTIES.
8. ALL WELDERS SHALL BE AWS OR STATE CERTIFIED. THEY MUST ALSO BE EXPERIENCED IN WELDING ON GALVANIZED MATERIALS.
9. IF IT IS POSSIBLE, ALL EXISTING COAX NEAR WELDING AREA SHALL BE TEMPORARILY MOVED AWAY FROM THE WELDING AREA BEFORE WELDING THE PLATES.
10. PLEASE REPORT ANY FIELD ISSUE TO TES @ 972-483-0607.

TES
A CONGRUEX® COMPANY
1320 GREENWAY DRIVE, SUITE 600
IRVING, TX 75038
PHONE: (972) 483-0607

HARMONI TOWERS
Connecting America

TES JOB NO:
163033

CUSTOMER SITE NO:
WI0005864-UNT

CUSTOMER SITE NAME:
LOMBARDY

7200 N SANTA MONICA BLVD
FOX POINT, WI 53217

DRAWN BY: CDL | CHECKED BY: JRL/DD

REV.	DESCRIPTION	BY	DATE
0	FIRST ISSUE	CDL	09/29/25

SHEET TITLE:
GENERAL NOTES

SHEET NUMBER: TGN-1
REV #: 0

NOTES:

1. TEMPORARILY RELOCATE ANY EXISTING COAX ATTACHED TO THE MONOPOLE AND ANY OTHER MEMBERS WHERE OBSTRUCTION WITH THE PROPOSED MODIFICATION MAY OCCUR.
2. TEMPORARY RELOCATION OF EXISTING EQUIPMENT AROUND THE FOUNDATION MAY BE REQUIRED DURING CONSTRUCTION.

SCOPE OF WORK

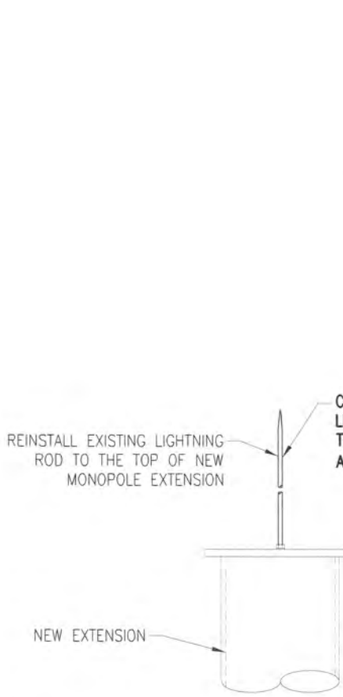
◇1
- A. REMOVE EXISTING TOP CAP PLATE AND LIGHTNING ROD, SEE PHOTO 1.
- B. REMOVE EXISTING CONNECTION TABS, SEE PHOTO 2.
  NOTE: LIGHTNING ROD TO BE REINSTALLED AFTER NEW TOP CAP PLATE IS INSTALLED.
- C. INSTALL NEW FLANGE PLATE (FP-18).
  NOTE: NEW FLANGE PLATE TO BE WELDED ON TOP OF EXISTING MONOPOLE, SEE PHOTOS 1 & 2.
- D. INSTALL NEW HSS18.000X0.375 X 20'-0" A500 GR-B (42 KSI) MONOPOLE SECTION FROM ±99'-0" TO ±119'-0" ELEV. SEE SHEET TA-2 FOR DETAILS.
  NOTE: CONTRACTOR TO REMOVE EXISTING SAFETY CLIMB ATTACHMENT PRIOR TO INSTALLATION OF NEW MONOPOLE EXTENSION.

◇2
- A. INSTALL NEW PERFECTVISION SAFETY CLIMB SYSTEM (PV-CMX-38SS7X19-150) TO THE NEW EXTENSION TO REPLACE EXISTING SAFETY CLIMB ASSEMBLY. INSTALL PER MANUFACTURER'S SPECIFICATIONS.
- B. INSTALL NEW SAFETY CLIMB STANDOFF BRACKET (H42-0501-06-K) TO AVOID INTERFERENCE AT EXISTING MOUNTS AT ±97'-0" & ±87'-0" ELEV.

◇3 INSTALL ADDITIONAL WORKING STEP BOLTS BELOW THE NEW MONOPOLE EXTENSION FLANGE PLATE TO PROVIDE A WORKING ELEVATION. SEE SHEET TA-3 FOR DETAILS.

◇4 REINSTALL LIGHTNING ROD AT TOP OF THE NEW EXTENSION AND FIELD CUT IT DOWN IF REQUIRED TO MEET FAA HEIGHT APPROVAL. SEE DETAIL 1.

◇5 THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CLEAN-UP, REMOVAL AND DISPOSAL OF EXCESS MATERIALS USED AND REMOVED FROM THE STRUCTURE AT THE COMPLETION OF THE PROJECT.



DETAIL 1

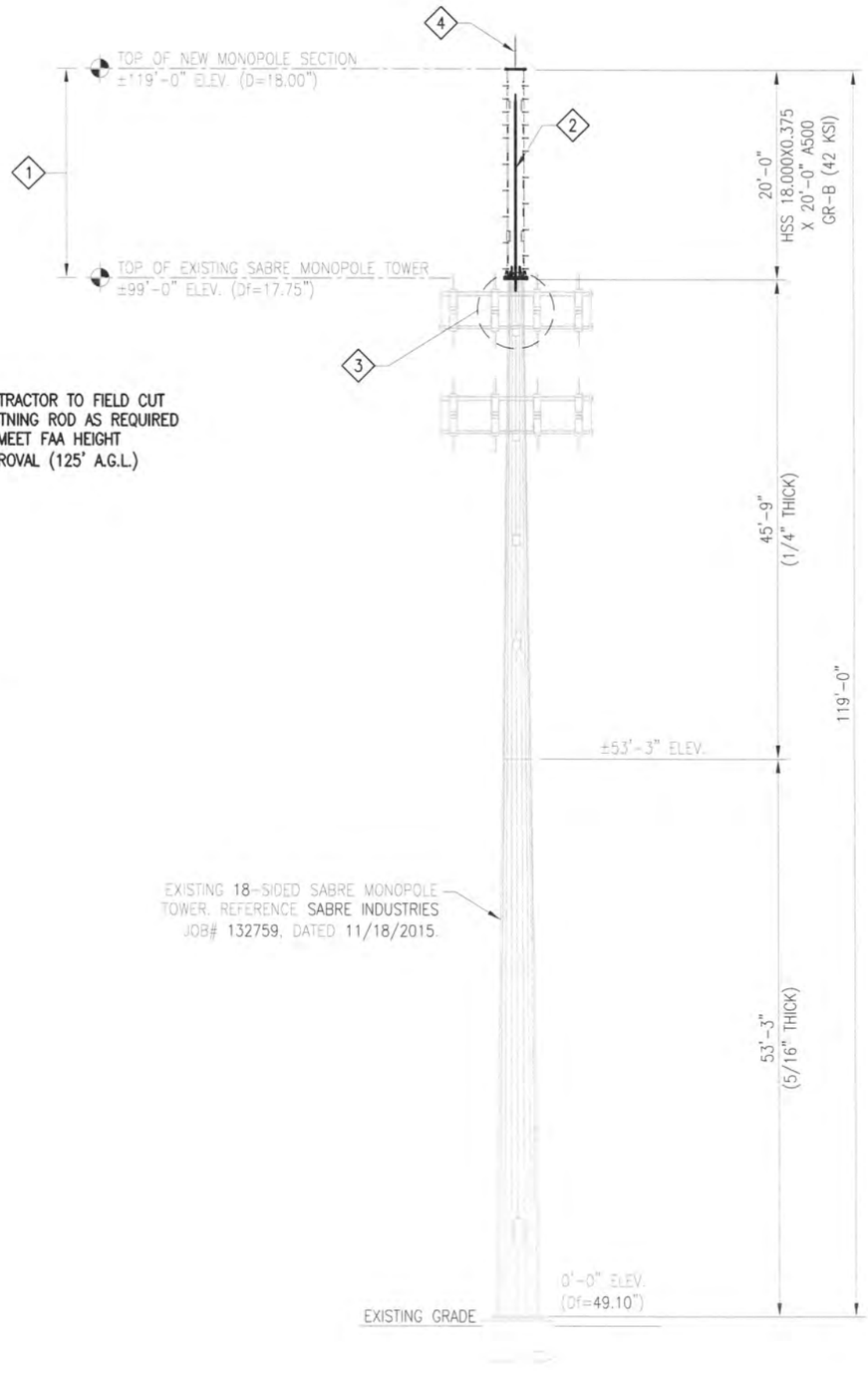


PHOTO 1

PHOTO 2

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HARMONITOWERS
Connecting America

TES JOB NO:
163033

CUSTOMER SITE NO:
WI0005864-UNT

CUSTOMER SITE NAME:
LOMBARDY

7200 N SANTA MONICA BLVD
FOX POINT, WI 53217

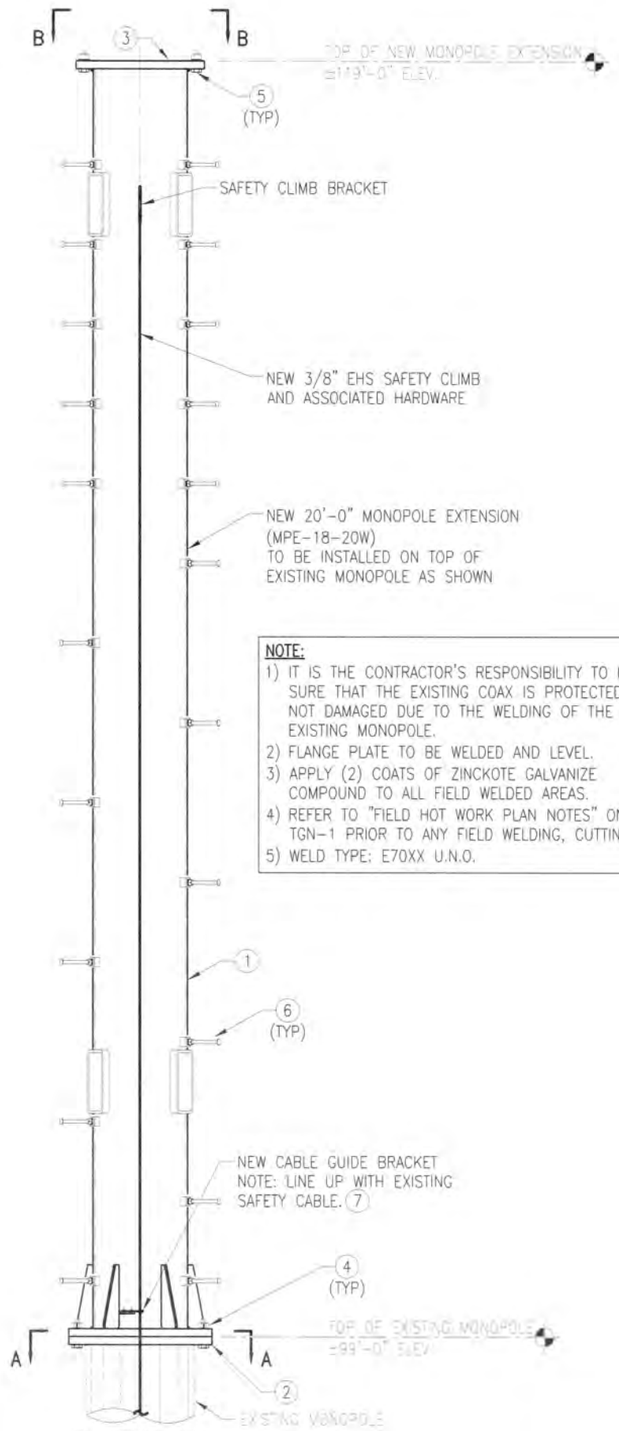
DRAWN BY: CDL | CHECKED BY: JRL/DD

REV.	DESCRIPTION	BY	DATE
0	FIRST ISSUE	CDL	09/29/25

SHEET TITLE:

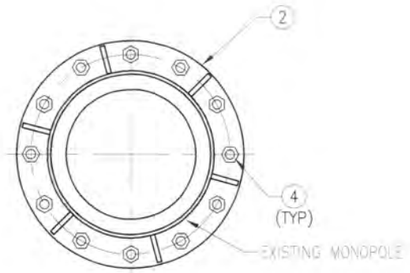
TOWER PROFILE

SHEET NUMBER: TA-1 | REV #: 0

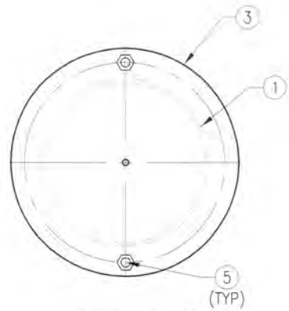


ELEVATION VIEW
(±99'-0" TO ±119'-0" ELEV.)

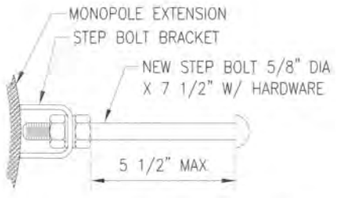
NOTE:
1) IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAKE SURE THAT THE EXISTING COAX IS PROTECTED AND NOT DAMAGED DUE TO THE WELDING OF THE EXISTING MONOPOLE.
2) FLANGE PLATE TO BE WELDED AND LEVEL.
3) APPLY (2) COATS OF ZINCKOTE GALVANIZE COMPOUND TO ALL FIELD WELDED AREAS.
4) REFER TO "FIELD HOT WORK PLAN NOTES" ON SHEET TGN-1 PRIOR TO ANY FIELD WELDING, CUTTING, ETC.
5) WELD TYPE: E70XX U.N.O.



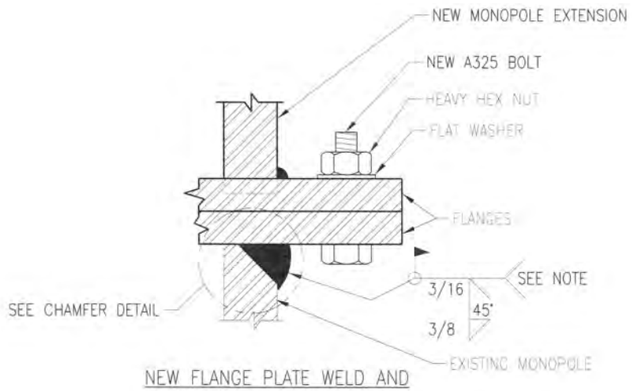
SECTION "A-A"



SECTION "B-B"



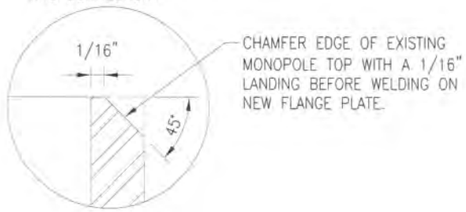
STEP BOLT INSTALLATION DETAIL



NEW FLANGE PLATE WELD AND
BOLT INSTALLATION DETAIL

NOTE:
TIGHTEN FLANGE BOLTS PER NOTES ON SHEET TGN-1, TABLE 8.2.

FIELD NOTE:
DO NOT USE A LOCKWASHER WITH THIS CONNECTION.



CHAMFER DETAIL

ITEM NO.	QTY.	PART NO.	DESCRIPTION
7	1	RV-CMX-CG-BG	SAFETY CLIMB CABLE GUIDE L-STYLE (PERFECT VISION)
6	26	STEP BOLTS	STEP BOLT 5/8" X 7 1/2" W/ (2) NUT-LKW EA.
5	3	———	BOLT 1" X 3 1/2" A325 W/ NUT-FW EA.
4	12	———	BOLT 1" X 4 3/4" A325 W/ NUT-FW EA.
3	1	CPL-18	TOP CAP PLATE PL 3/16" X 2'-0 1/2" DIA A36
2	1	FPW-18	FLANGE PLATE PL 1 1/2" X 2'-0 1/2" DIA A572-50
1	1	MPE-18-20W	MONOPOLE EXTENSION WELDMENT (ROUND HSS18.000X0.375 X 20'-0") A500 GR-B (42 KSI)

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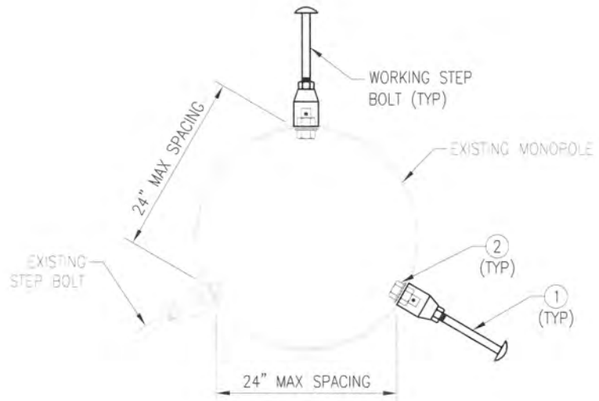
REV	DESCRIPTION	BY	DATE
0	FIRST ISSUE	CDL	09/29/25

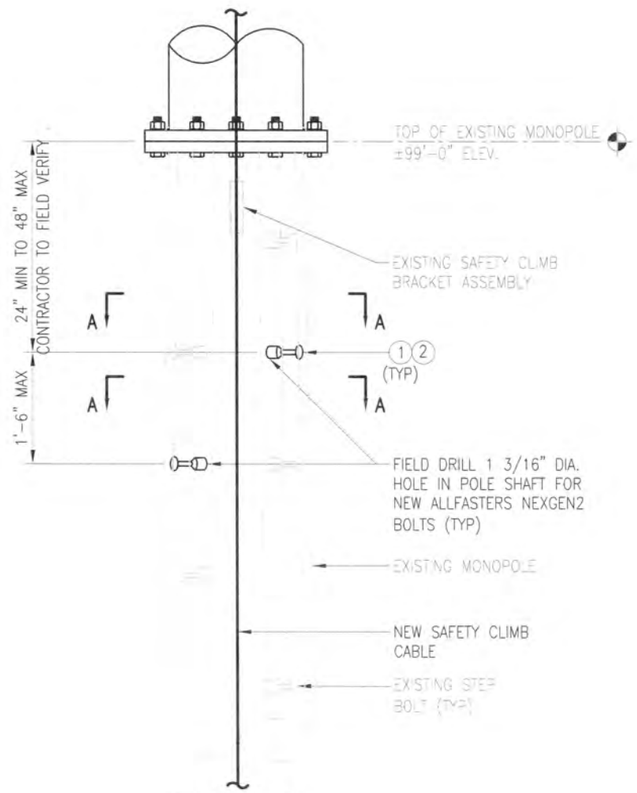
SHEET TITLE:

MONOPOLE EXTENSION INSTALLATION DETAILS

SHEET NUMBER: TA-2 | REV #: 0

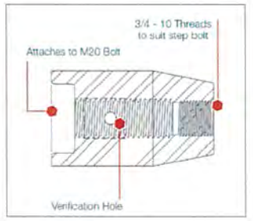


SECTION "A–A"



ELEVATION VIEW

PHOTO 1



STEP COLLAR SECTION

NOTES:

1. INSTALLATION DETAILS FOR NEXGEN2 BOLTS – SEE SHEETS SPEC–1 & SPEC–2. IT IS REQUIRED THAT THE CONTRACTOR TAKE PHOTOS OF THE INSTALLED TORQUE FOR VERIFICATION OF PROPER INSTALLATION.
2. APPLY (2) COATS OF ZINCKOTE GALVANIZE COMPOUND PER ASTM A780 AND MANUFACTURER'S RECOMMENDATIONS TO ALL FIELD DRILLED AND EXPOSED AREAS.

ITEM NO.	QTY.	PART NO.	DESCRIPTION
3	4	2SW011414400	ALLFASTENERS 1/4" X 4" X 4" SQUARE PLATE WASHER A36 (USE IF REQUIRED)
2	4	2NG2032	M20 X 75 NEXGEN2 BLIND BOLT ASSEMBLY
1	4	2RDNGM20212A	ALLFASTENERS M20 X 3/4 X 2 1/2" STEP BOLT ADAPTER ASSEMBLY

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REV	DESCRIPTION	BY	DATE
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SHEET TITLE:

STEP BOLT WORKING ELEVATION DETAILS

SHEET NUMBER: TA–3 | REV #: 0

NEXGEN2 BLIND BOLT ASSEMBLY

INSTALLATION GUIDE

PRE-INSTALL BOLT ON INSTALL TOOL:

1 Thread the installation tool tip into the splined end of the bolt.

2 Remove the nut, the face washer and the spring shear sleeve and slide along the handle of the tool.

3 Move the collapsible washer to the correct location on the tool and fold in place.

INSTALLATION:

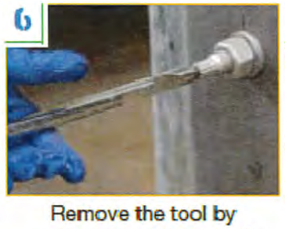
1 Install the bolt into the hole followed by the collapsible washer.

2 Rotate the tool 180°.

3 Pulling back, rock the tool side-to-side to engage the collapsible washer.

4 Engage the spring shear sleeve into the shear plane.

5 Slide the face washer forward and move the nut up to fasten to the bolt. Tighten the nut snug tight at this point.



6 Remove the tool by unscrewing it from bolt (counterclockwise).

7 Using the shear wrench engage the outer socket with the splined end of the bolt. Press the trigger until correct tension has been achieved (the bolt spline separates from the bolt).

8 Press the small trigger on the shear wrench to eject the bolt spline. The application is now complete.

THIS INSTALLATION GUIDE WAS CREATED BY ALLFASTENERS. IT WAS ATTACHED FOR REFERENCE ONLY.

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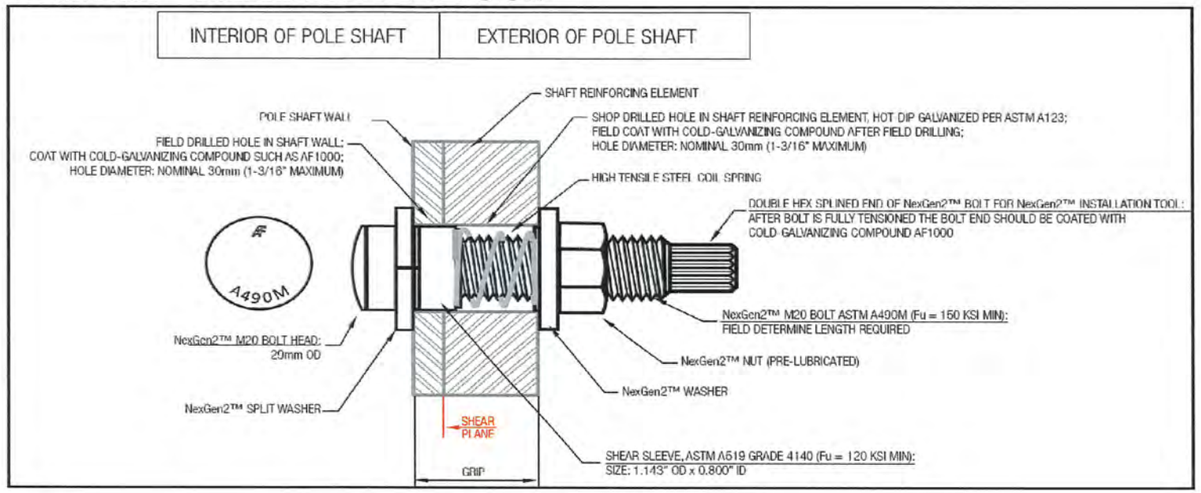
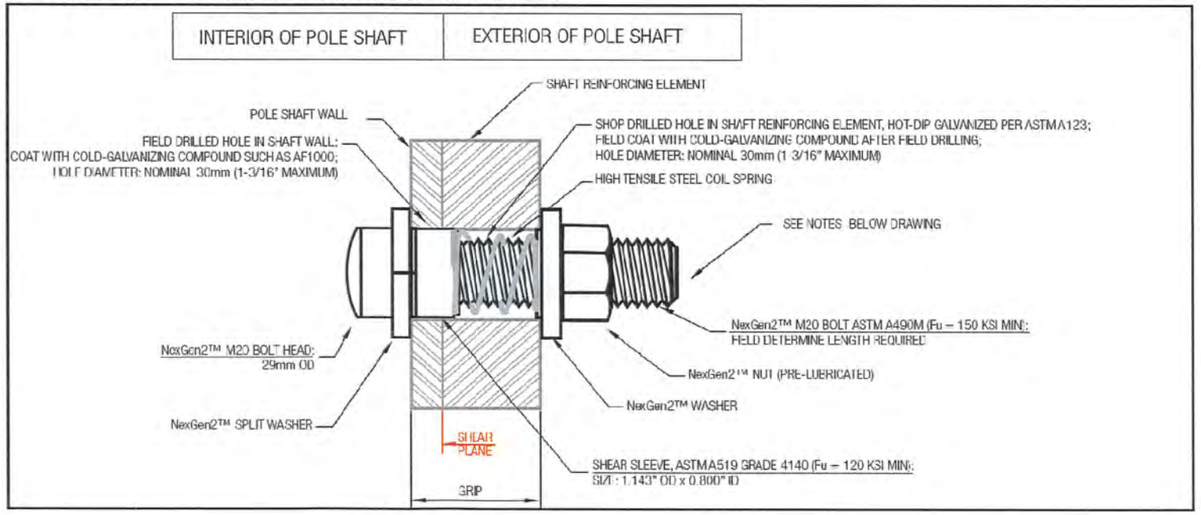
SHEET TITLE:
NEXGEN2 BLIND BOLT ASSEMBLY INSTALLATION GUIDE

SHEET NUMBER: SPEC-1
REV #: 0

TYPICAL NG2™ BOLT DETAIL: ***PRE-TENSION***



TYPICAL NG2™ BOLT DETAIL: ***POST-TENSION***



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SHEET TITLE:

NEXGEN2 BLIND BOLT ASSEMBLY INSTALLATION GUIDE

SHEET NUMBER: SPEC-2

REV #: 0

verizon

PJF PAUL J. FORD & COMPANY

Paul J. Ford and Company
250 East Broad Street Suite 600
Columbus, OH 43215
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PJFmount@pauljford.com

New Antenna Mount Analysis Report and PII Requirements

Mount Analysis-N
SMART Tool Project #: 10322462
Paul J. Ford and Company Project #: 24325-2134.001.7195.
November 10, 2025

Site Information	*Site ID:*	*5000974975-VZW / DOCPARK_MCR__16TDN272800*
	Site Name:	*DOCPARK_MCR__16TDN272800*
	Carrier Name:	*Verizon Wireless*
	Address:	*7200 N Santa Monica Blvd Fox Point, Wisconsin 53217, Milwaukee County*
	Latitude:	*43.146013°*
	Longitude:	*-87.901361°*
Structure Information	*Tower Type:*	*120-Ft Monopole*
	Mount Type:	*12.00-Ft Platform w/ Support Rail*

FUZE ID # 17458794

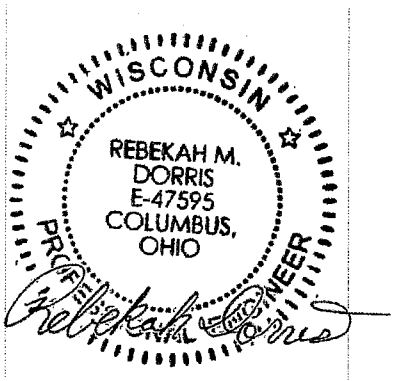
Analysis Results

12.00-Ft Platform w/ Support Rail: **59.1% Pass w/ New Mount Install***
Perfect Vision SLPP12U-HR-12-96

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

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

Report Prepared By: Muhamed Diallo



11/10/2025

Executive Summary:

The objective of this report is to determine the capacity of the proposed antenna support mount at the subject facility for the final wireless telecommunications configuration, per the applicable codes and standards. The proposed mount was assumed to be installed properly to the existing tower per the manufacturer's instructions. Paul J. Ford and Company cannot verify that the proposed mount will fit properly and is not liable for any fit-up issues during installation.

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, 17458794, dated 8/27/25*
Mount Specification	*Perfect Vision, P/N #PV-SLPP12U-HR-16-96*

Analysis Criteria:

Codes and Standards:	ANSI/TIA-222-H	
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), V_{ULT}:	106 mph
	Ice Wind Speed (3-sec. Gust):	40 mph
	Design Ice Thickness:	1.50 in
	Risk Category:	II
	Exposure Category:	D
	Topographic Category:	1
	Topographic Feature Considered:	N/A
	Topographic Method:	N/A
	Ground Elevation Factor, K_e:	0.975
Seismic Parameters:	S_S:	0.072 g
	S_1:	0.047 g
Maintenance Parameters:	Wind Speed (3-sec. Gust):	30 mph
	Maintenance Load, Lv:	250 lbs.
	Maintenance Load, Lm:	500 lbs.
Analysis Software:	RISA-3D (V22.0.2)	

Final Loading Configuration:

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

Mount Elevation (ft)	Equipment Elevation (ft)	Quantity	Manufacturer	Model	Status
115.00+/-	115.00	3	Ericsson	AIR3283	Added
		3	Ericsson	AIR 6419	
		4	Commscope	NHH-65B-R2B	
		2	Commscope	NHH-45B-R2B	
		3	Ericsson	4490	
		3	Raycap	RVZDC-3315-PF-48	

It is acceptable to install up to three (3) OVPs with dimensions not to exceed 30" x 17" x 13" and 40 lbs. 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.

Standard Conditions:

1. All engineering services are performed on the basis that the information provided to Paul J. Ford and Company and used in this analysis is current and correct. Any deviation from the loading locations specified in this report shall be communicated to Paul J. Ford and Company 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.

3. All member connections are assumed to have been designed to meet or exceed the load carrying capacity of the connected member unless otherwise specified in this report.

4. The 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.

5. All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. Paul J. Ford and Company is not responsible for the conclusion, opinions, and recommendations made by others based on the information supplied.

6. Structural Steel Grades have been assumed as follows, if applicable, unless otherwise noted in this analysis:
   - Channel, Solid Round, Angle, Plate — ASTM A36 (Gr. 36)
   - HSS (Rectangular) — ASTM 500 (Gr. B-46)
   - Pipe — ASTM A53 (Gr. B-35)
   - Threaded Rod — F1554 (Gr. 36)
   - Bolts — ASTM A325
   - Cold Form Channel — ASTM A36 (Gr. 36)

Discrepancies between in-field conditions and the assumptions listed above may render this analysis invalid unless explicitly approved by Paul J. Ford and Company.

Analysis Results:

Component	Utilization %	Pass/Fail
Face Horizontals	*36.0%*	*Pass*
Bracing Members	*18.9%*	*Pass*
Support Rails	*28.5%*	*Pass*
Grating Support Members	*31.5%*	*Pass*
Standoff Members	*59.1%*	*Pass*
Corner Plates	*19.3%*	*Pass*
Mount Pipes	*36.6%*	*Pass*
Mount to Tower Connection	*49.8%*	*Pass*

Structure Rating – *(Controlling Utilization of all Components)*	**59.1%**

Mount Connection Envelope Reactions:

Connection Description	Elev. AGL (Ft)	Node Label	Envelope Wind Reactions				Envelope Wind + Ice Reactions			
			Axial (Lbs)	Lateral (Lbs)	Moment (K-Ft)	Torsion (K-Ft)	Axial (Lbs)	Lateral (Lbs)	Moment (K-Ft)	Torsion (K-Ft)
Sector D Standoff	115.00	N200 A	2826	7628	3.827	0.024	2644	2134	8.915	0.007
Sector D Standoff	115.00	N202 B	2735	8085	3.850	0.024	2307	2298	8.906	0.007
Sector C Standoff	115.00	N204 A	2605	7809	4.108	0.023	2655	2238	8.846	0.006
Sector C Standoff	115.00	N206 A	2615	6722	4.105	0.023	2020	1756	8.816	0.006
Sector B Standoff	115.00	N209 A	2671	4228	2.722	0.014	3517	852	5.683	0.003
Sector B Standoff	115.00	N211 A	1703	4191	2.641	0.014	980	834	5.517	0.003
Sector A Standoff	115.00	N214 A	1887	5693	3.467	0.020	1658	1399	7.504	0.005
Sector A Standoff	115.00	N216 A	3079	6825	3.562	0.020	4872	1848	7.748	0.005

Notes:
- Axial loads act along the axis of the tower leg
- Lateral reactions act perpendicular to the tower leg
- Moment loads introduce bending moment to the tower leg
- Torsion loads introduce twisting moment to the tower leg

Considered Equipment Dimensions, Weight, and EPA:

Manufacturer	Model	Height (In)	Width (In)	Depth (In)	Weight (Lbs)	(EPA)n (Sq. Ft.)	(EPA)t (Sq. Ft.)
Ericsson	*AIR3283	47.2	20.0	12.9	110.0	7.44	3.53
Ericsson	*AIR 6419	28.3	16.1	8.0	71.0	3.52	1.76
Commscope	*NHH-65B-R2B	72.0	11.9	7.1	43.7	5.43	2.33
Commscope	*NHH-45B-R2B	72.0	18.0	7.0	123.0	10.77	2.22
Ericsson	*4490.00	20.6	15.7	7.0	68.4	2.39	1.09
Raycap	*RVZDC-3315-PF-48	29.5	16.5	12.6	32.0	3.17	2.41

*Appurtenance equivalent projected area has been established through data provided by the specific manufacturer, consistent with direction per ANSI/TIA-222 Section 2.6.11.2.

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

Ice Thickness (In)	Mount Pipes Excluded		Mount Pipes Included	
	Front (EPA)a (Sq. Ft.)	Side (EPA)a (Sq. Ft.)	Front (EPA)a (Sq. Ft.)	Side (EPA)a (Sq. Ft.)
0	60.6	60.6	87.6	87.6
0.5	71.3	71.3	109.7	109.7
1	80.7	80.7	130.6	130.6

Notes:
- (EPA)a values listed above may be used in the absence of more precise information
- (EPA)a values in the table above include 4 sector(s).
- Ka factors included in (EPA)a calculations

Requirements:

The proposed antenna mount is **SUFFICIENT** for the final loading configuration (attachment 2) upon completion of the mount installation (attachment 3) and requirements below.

- Contractor shall install the proposed mount (Perfect Vision – PV-SLPP12-B) in accordance with manufacturer specification and the New Mount Sketch. Contact EOR if these documents are not available.
- Contractor shall install (3) 72" P2.0 STD mount pipes 1'-0" from mount collar on standoff. (3) VZWSMART-MSK6 kits will be required for installation.
- Contractor shall install mount pipes in accordance with manufacturer drawings. Refer to placement diagrams and Mount Installation Sketch. Contact EOR if these documents are not available.
- Contractor shall install wire rope guide

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

Attachments:

1. **Contractor Required Post Installation Inspection (PII) Report Deliverables**
2. Antenna Placement Diagrams
3. Mount Manufacturer Drawings
4. Analysis Calculations

Mount Desktop – Post Modification Inspection (PII) Report Requirements

Documents & Photos Required from Contractor – New Mount Passing MA

Electronic pdf version of this can be downloaded at https://pmi.vzwsmart.com
For additional questions and support, please reach out to pmisupport@pauljford.com

MDG #: 5000974975 SMART Project #: 10322462 Fuze Project ID: 17458794

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

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

Base Requirements:

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

Photo Requirements:

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

        - These photos shall also certify that the placement and geometry of the equipment on the mount is as depicted in the antenna placement diagram in this form.
    - Photos that show the model number of each antenna and piece of equipment installed per sector.
    - Photos of each installed mount; pictures shall also include connection hardware (U-bolts, bolts, nuts, all-threaded rods, etc.)
    - Photos showing the installed mount elevation.

Antenna & Equipment Placement and Geometry Confirmation:

- The contractor shall certify that the antenna & equipment placement and geometry is in accordance with the sketch and table as included in the mount analysis and noted below.

☐ The contractor certifies that the photos support and the equipment on the mount is as depicted on the sketch and table included in this form and with the mount analysis provided.

OR

☐ The contractor notes that the equipment on the mount is not in accordance with the sketch and has noted the differences below and provided photo documentation of any alterations.

Special Instructions / Validation as required from the MA or any other information the contractor deems necessary to share that was identified:

Issue:

• Contractor shall install the proposed mount (Perfect Vision – PV-SLPP12-B) in accordance with manufacturer specification and the New Mount Sketch. Contact EOR if these documents are not available. • Contractor shall install (3) 72" P2.0 STD mount pipes 1'-0" from mount collar on standoff. (3) VZWSMART-MSK6 kits will be required for installation. • Contractor shall install mount pipes in accordance with manufacturer drawings. Refer to placement diagrams and Mount Installation Sketch. Contact EOR if these documents are not available. • Contractor shall install wire rope guide

Response:

Special Instruction Confirmation:

☐ The contractor has read and acknowledges the above special instructions.

Contractor certifies that the climbing facility / safety climb was not damaged prior to starting work:

☐ Yes ☐ No

Contractor certifies no new damage created during the current installation:

☐ Yes ☐ No

Contractor to certify the condition of the safety climb and verify no damage when leaving the site:

☐ Safety Climb in Good Condition ☐ Safety Climb Damaged

Comments:

New Mount Certification:

☐ The contractor certifies that the New Mount installed is as specified in the Passing Mount Analysis.
☐ The contractor notes that the New Mount installed is not as specified and engineering approval was received for the New Mount installed.

Contractor to provide measurement from top of the highest equipment/steel to the bottom of the lowest equipment/steel by documenting it using the most appropriate illustration below along with supporting photos (highest and lowest measurement across all sectors):

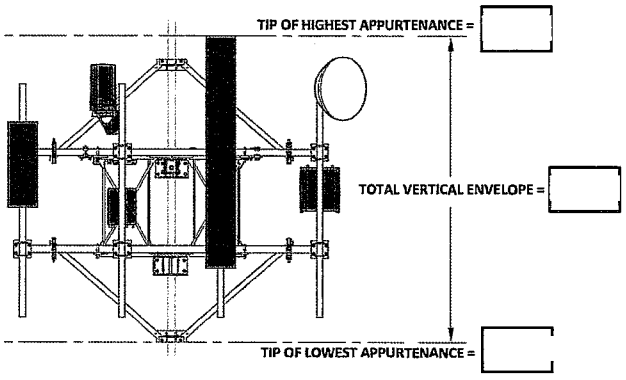


Illustration #1

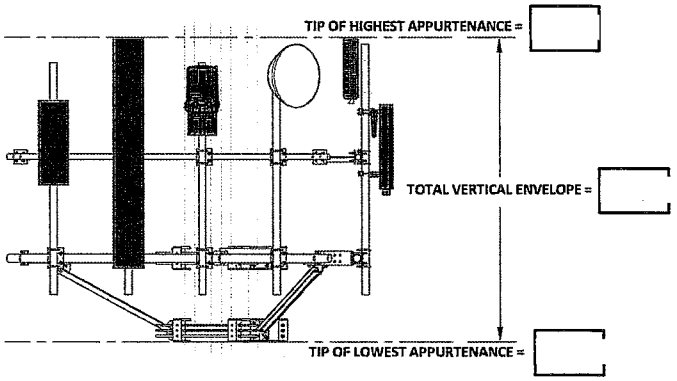
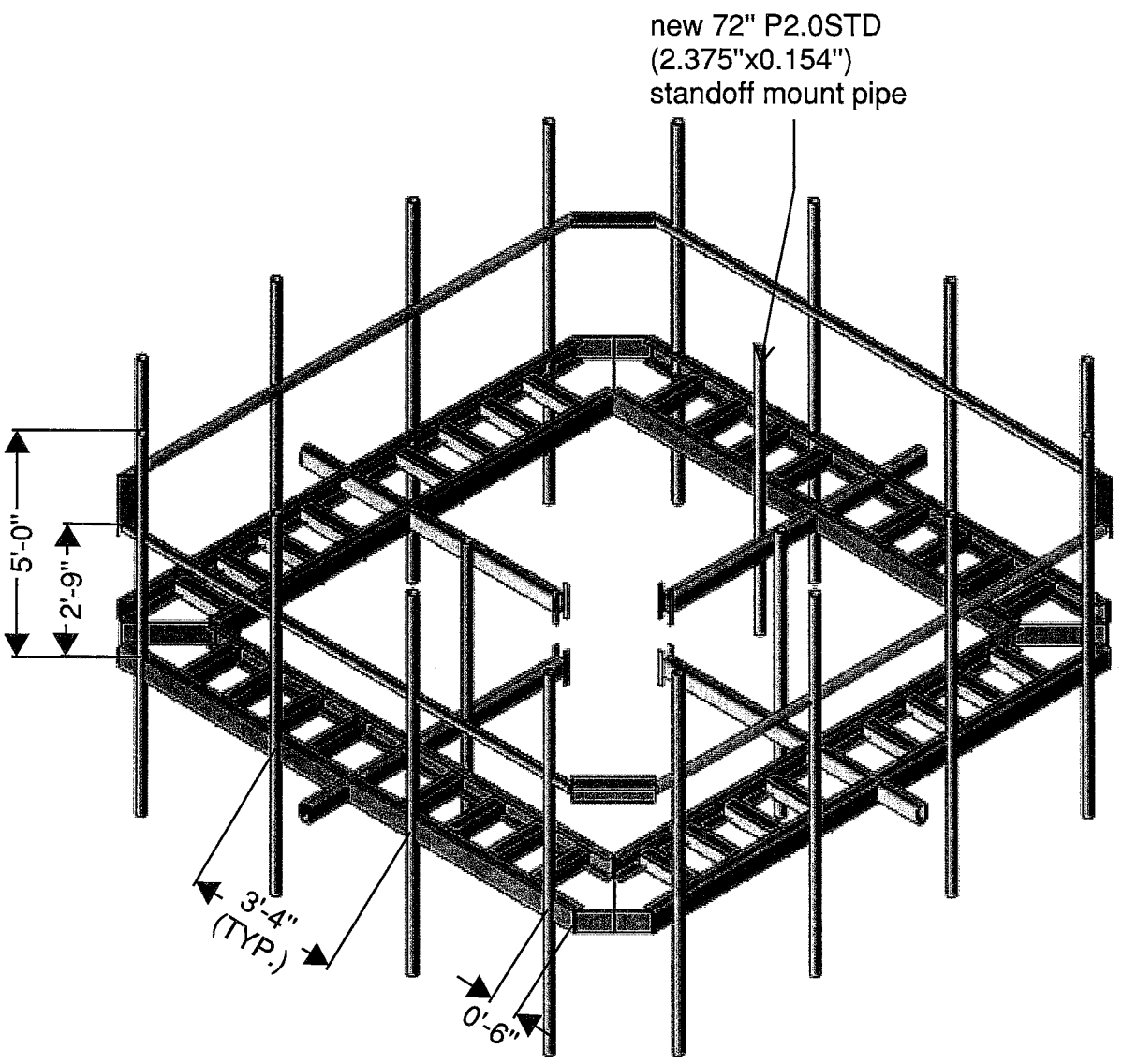


Illustration #2

Certifying Individual:

Company:	
Employee Name:	
Contact Phone:	
Email:	
Date:	

NEW Mount Installation Sketch



Sector: A

Structure Type: Monopole

Mount Elev: 115.00

10322462

11/10/2025

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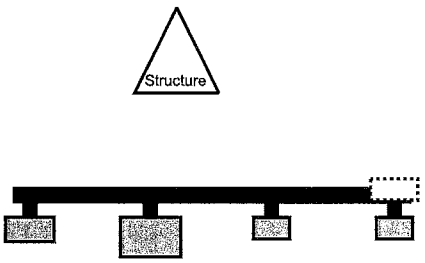
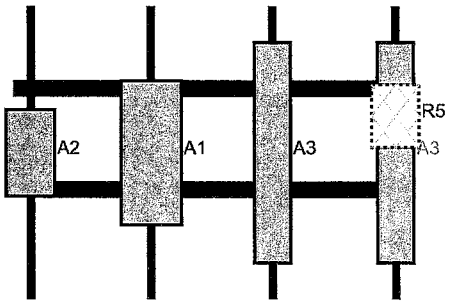
Plan View



Front View - Looking at Structure



Raycaps Installed on Standoff Pipe

4 3 2 1

Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A3	NHH-65B-R2B	72	11.9	125.64	1	a	Front	48	0	Added	
R5	4490.00	20.6	15.7	125.64	1	a	Behind	36	0	Added	
A3	NHH-65B-R2B	72	11.9	85.68	2	a	Front	48	0	Added	
A1	AIR3283	47.2	20	45.6	3	a	Front	48	0	Added	
A2	AIR 6419	28.3	16.1	5.64	4	a	Front	48	0	Added	

Sector: B

Structure Type: Monopole

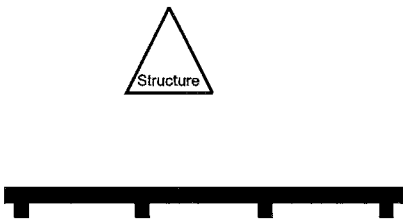
Mount Elev: 115.00

10322462

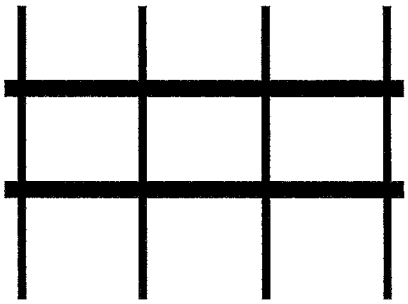
11/10/2025

PAUL J. FORD & COMPANY

Plan View



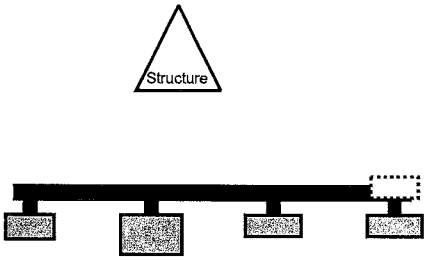
Front View - Looking at Structure



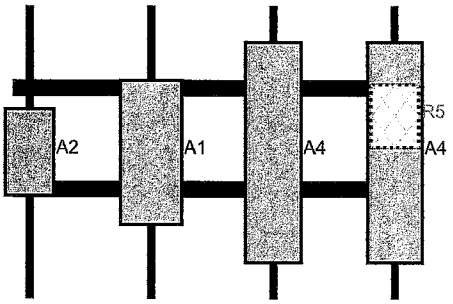
4 3 2 1

Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation

Plan View



Front View - Looking at Structure

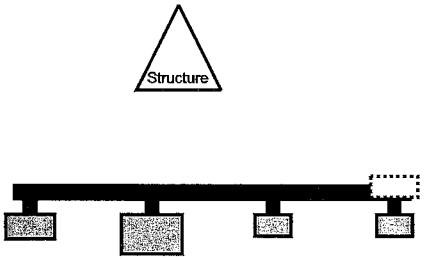


Raycaps Installed on Standoff Pipe

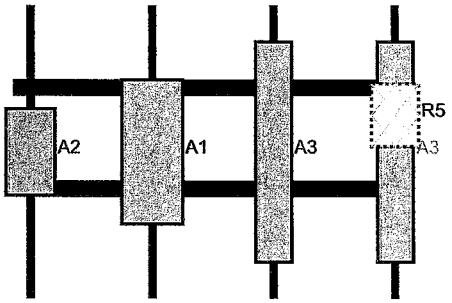
4 3 2 1

Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A4	NHH-45B-R2B	72	18	125.64	1	a	Front	48	0	Added	
R5	4490.00	20.6	15.7	125.64	1	a	Behind	36	0	Added	
A4	NHH-45B-R2B	72	18	85.68	2	a	Front	48	0	Added	
A1	AIR3283	47.2	20	45.6	3	a	Front	48	0	Added	
A2	AIR 6419	28.3	16.1	5.64	4	a	Front	48	0	Added	

Plan View



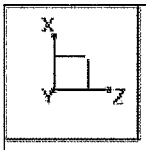
Front View - Looking at Structure

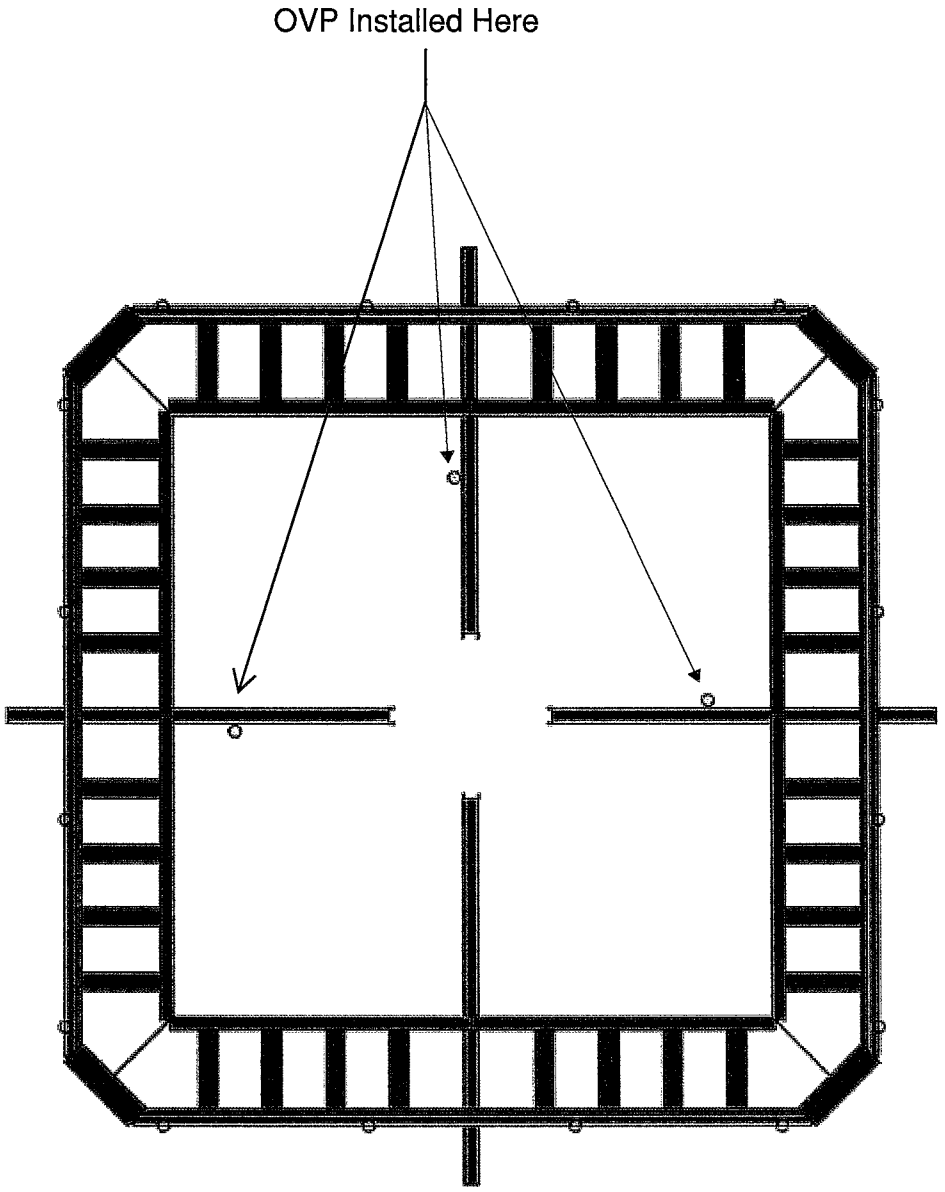


Raycaps Installed on Standoff Pipe

4 3 2 1

Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A3	NHH-65B-R2B	72	11.9	125.64	1	a	Front	48	0	Added	
R5	4490.00	20.6	15.7	125.64	1	a	Behind	36	0	Added	
A3	NHH-65B-R2B	72	11.9	85.68	2	a	Front	48	0	Added	
A1	AIR3283	47.2	20	45.6	3	a	Front	48	0	Added	
A2	AIR 6419	28.3	16.1	5.64	4	a	Front	48	0	Added	



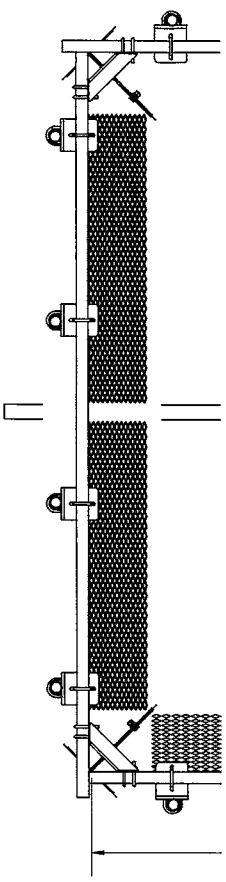


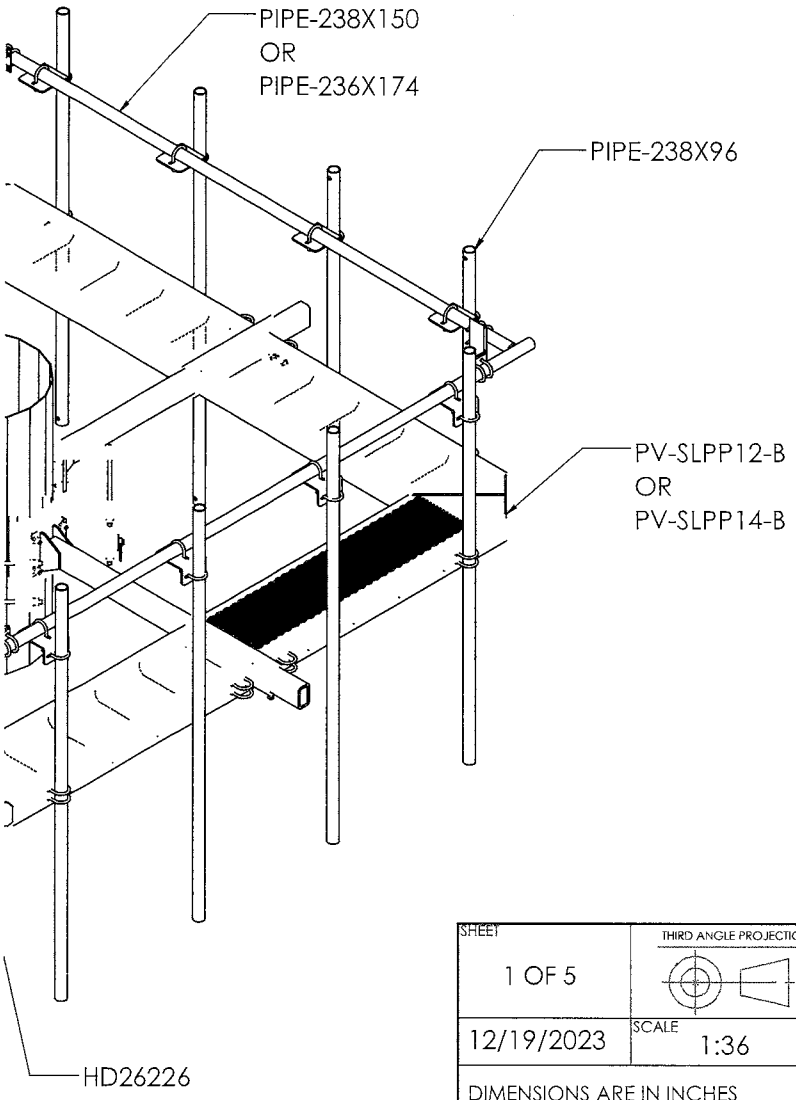
IRISA A NEMETSCHEK COMPANY	Paul J. Ford	5000974975-VZW_MT_LO_H	AL-1
	MD		Nov 10, 2025 at 11:06 AM
	Project No. 10322462		5000974975-VZW_MT_LO...

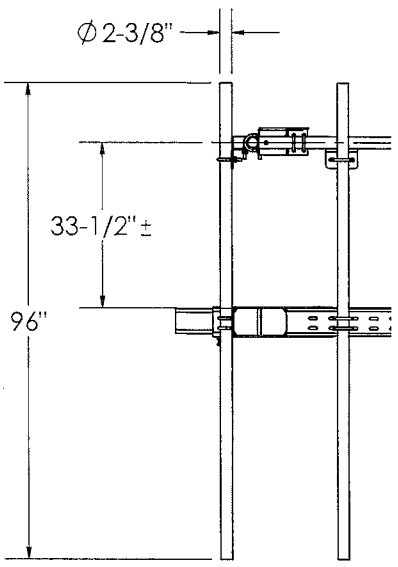
ARE PLATFORM

Table 1: Platform Configurations

Description	Weight (lbs)	Included Parts							
		PV-RM1460-4-GS	PV-SLPP12-B	PV-SLPP14-B	PV-SLPP-HR4-16-B	PIPE-238X96	PIPE-238X150	PIPE-238X174	HD26226
Face, 14"-60" Pole	2520	1	1	-	-	-	-	-	4
rizontal Support Rail, 12' Face, 14"-60" Pole	3190	1	1	-	1	-	4	-	4
rizontal Support Rail, 12' Face, 14"-60" Pole, (12) Antenna Pipe	3540	1	1	-	1	12	4	-	4
rizontal Support Rail, 12' Face, 14"-60" Pole, (16) Antenna Pipe	3660	1	1	-	1	16	4	-	4
Face, 14"-60" Pole	2870	1	-	1	-	-	-	-	4
rizontal Support Rail, 14' Face, 14"-60" Pole	3220	1	-	1	1	-	-	4	4
rizontal Support Rail, 14' Face, 14"-60" Pole, (12) Antenna Pipe	3570	1	-	1	1	12	-	4	4

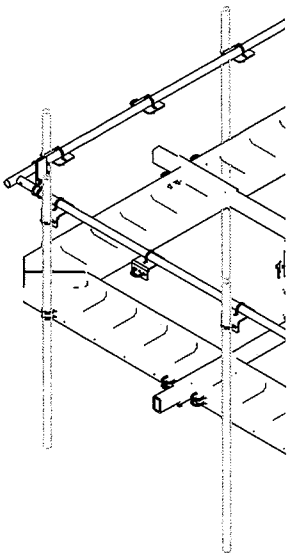




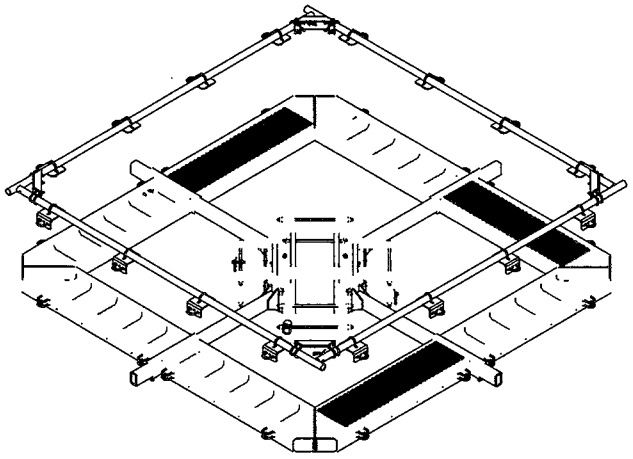


SHEET 1 OF 5	THIRD ANGLE PROJECTION	CATEGORY	02_Monopole	6	ADDED SEPARATE PAGE FOR WEIGHTS & EF
		SERIES	02_Square	5	KIT UPDATED WITH RM1460-GS COLLARS
12/19/2023	SCALE 1:36	TYPE	PV-SLPP_Square Monopole Platform	4	UPDATE TO NEW TEMPLATE
DIMENSIONS ARE IN INCHES TOLERANCES U.N.O. HOLES: +1/16", -1/32" ANGULAR: PROFILE±1/4°, BEND±2° ALL OTHERS: ±1/16"		BY	DJN	3	UPDATE TO KIT
		CHECKED	SJS	2	UPDATED TO 4 PIPES PER SECTOR
		STATUS	APPROVED	REV	DESCRIPTION

Weight & EPA							
hickness [in]		(EPA)A [sqft] per Radial Ice Thickness [in]					
2	4	0	0.5	1	1.5	2	4
5460	9100	26.6	32.0	37.6	43.4	49.3	74.8
6770	11580	35.6	45.2	55.3	66.1	77.5	129.6
8150	14920	35.6	45.2	55.3	66.1	77.5	129.6
8600	16030	35.6	45.2	55.3	66.1	77.5	129.6
6330	10610	31.1	37.3	43.8	50.4	57.1	85.9
7400	13020	40.8	51.5	62.8	74.7	87.2	143.8
8780	16360	40.8	51.5	62.8	74.7	87.2	143.8

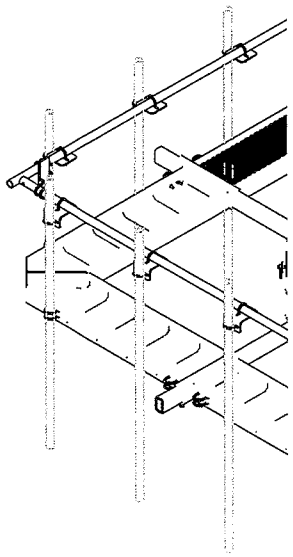


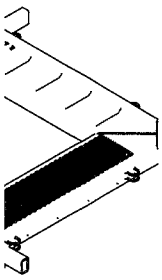
G CROSSOVER CONNECTIONS. IF DESIRED ADD ANTENNA PIPE PER TABLE 3.



PV-SLPP##U-HR-B
(PLATFORM SIZE WILL VARY BASED ON CONFIGURATION)

PV
(PLATFORM SIZE WILL

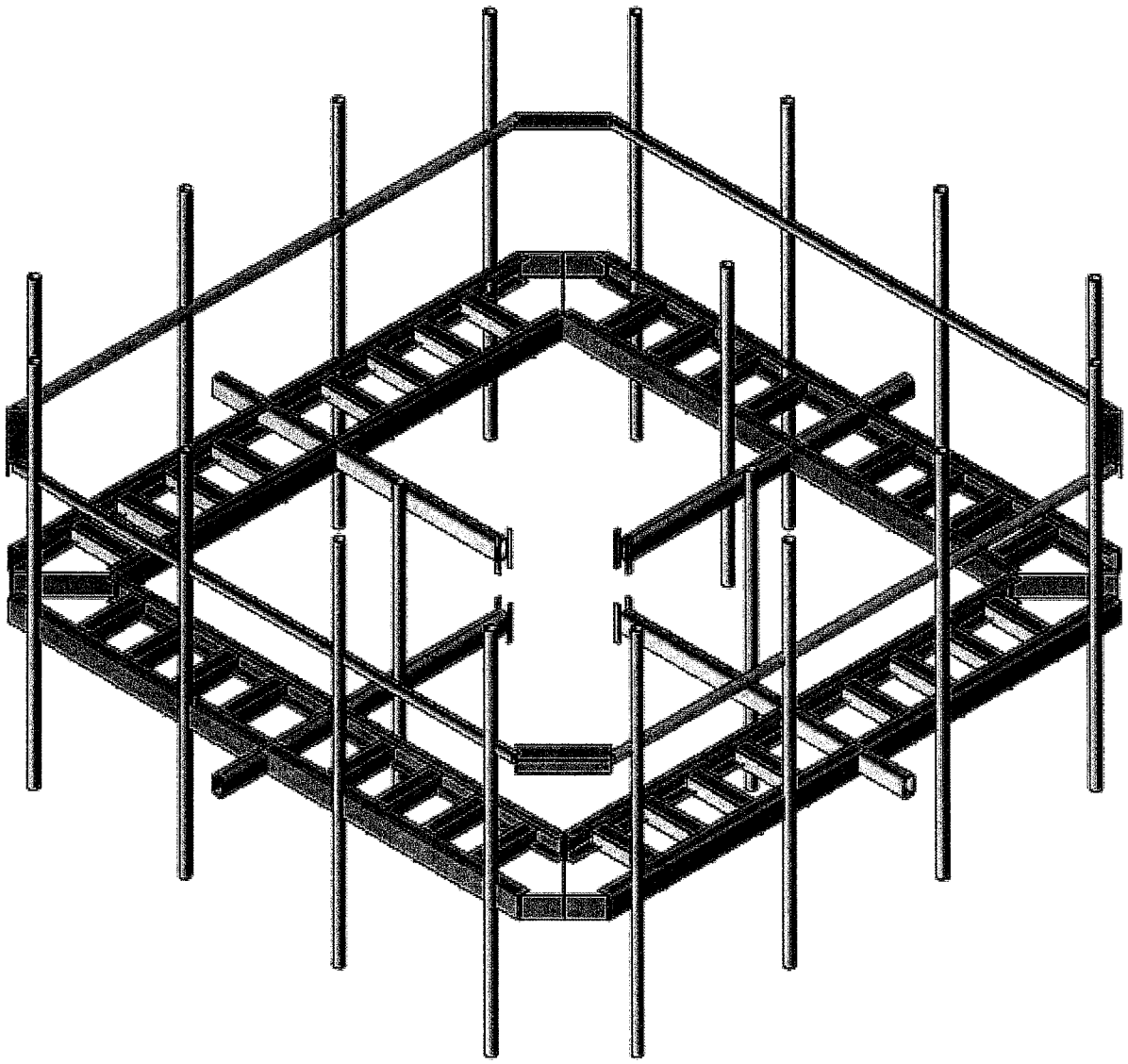




PV

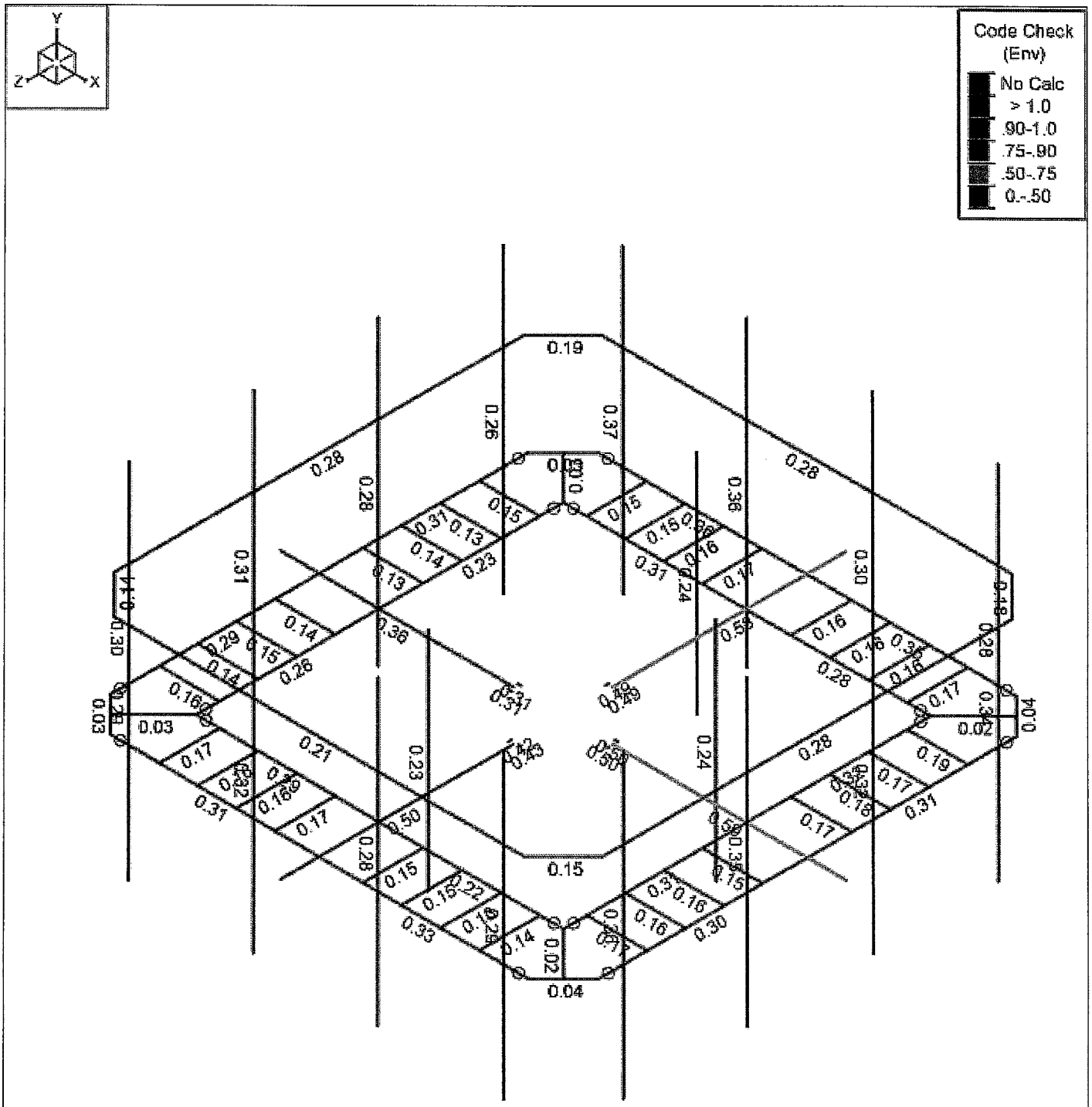
FIGURATION)

SHEET 2 OF 5	THIRD ANGLE PROJECTION	CATEGORY 02_Monopole	6	ADDED SEPARATE PAGE FOR WEIGHTS & EF
		SERIES 02_Square	5	KIT UPDATED WITH RM1460-GS COLLARS
12/19/2023	SCALE 1:24	TYPE PV-SLPP_Square Monopole Platform	4	UPDATE TO NEW TEMPLATE
DIMENSIONS ARE IN INCHES TOLERANCES U.N.O. HOLES: +1/16", -1/32" ANGULAR: PROFILE ±1/4°, BEND ±2° ALL OTHERS: ±1/16"		BY DJN	3	UPDATE TO KIT
		CHECKED SJS	2	UPDATED TO 4 PIPES PER SECTOR
		STATUS APPROVED	REV	DESCRIPTION



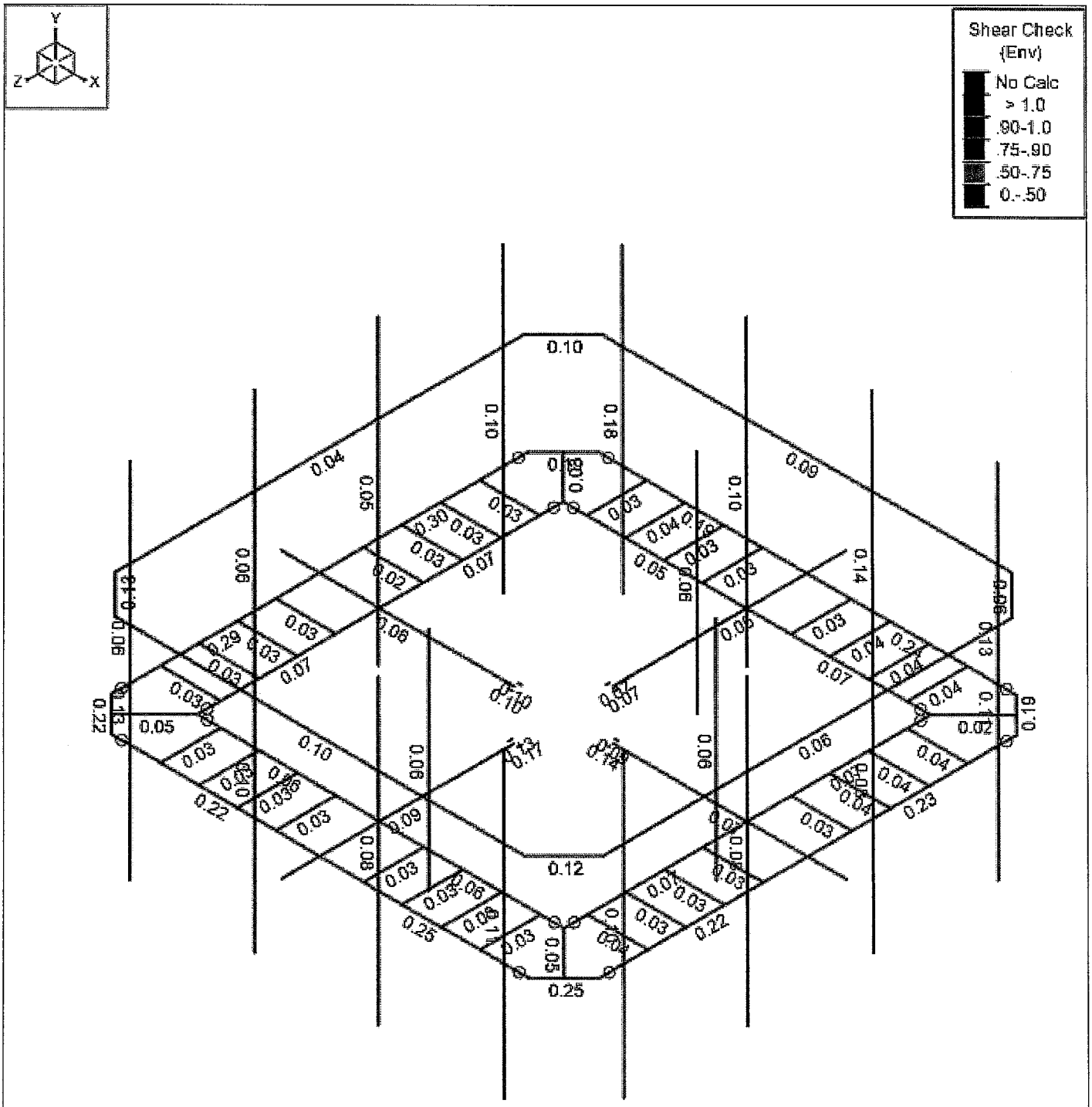
Envelope Only Solution

IRISA A NEMETSCHEK COMPANY	Paul J. Ford	5000974975-VZW_MT_LO_H	SK-1
	MD		Nov 10, 2025 at 09:51 AM
	Project No. 10322462		5000974975-VZW_MT_LO_...



Member Code Checks Displayed (Enveloped)
Envelope Only Solution

IRISA A NEMETSCHEK COMPANY	Paul J. Ford	5000974975-VZW_MT_LO_H	SK-2
	MD		Nov 10, 2025 at 09:52 AM
	Project No. 10322462		5000974975-VZW_MT_LO_...



Member Shear Checks Displayed (Enveloped)
Envelope Only Solution

IRISA A NEMETSCHEK COMPANY	Paul J. Ford	5000974975-VZW_MT_LO_H	SK-3
	MD		Nov 10, 2025 at 09:52 AM
	Project No. 10322462		5000974975-VZW_MT_LO_...

Model Settings

Number of Reported Sections	5
Number of Internal Sections	100
Member Area Load Mesh Size (in^2)	144
Consider Shear Deformation	Yes
Consider Torsional Warping	Yes
Approximate Mesh Size (in)	24
Transfer Forces Between Intersecting Wood Walls	Yes
Increase Wood Wall Nailing Capacity for Wind Loads	Yes
Include P-Delta for Walls	Yes
Optimize Masonry and Wood Walls	Yes
Maximum Number of Iterations	3
Single	No
Multiple (Optimum)	Yes
Maximum	No

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

Hot Rolled Steel	AISC 15th (360-16): LRFD
Stiffness Adjustment	Yes (Iterative)
Notional Annex	None
Connections	None
Cold Formed Steel	AISI S100-16: LRFD
Stiffness Adjustment	Yes (Iterative)
Wood	None
Temperature	< 100F
Concrete	None
Masonry	None
Aluminum	None
Structure Type	Building
Stiffness Adjustment	Yes (Iterative)
Stainless	AISC 14th (360-10): LRFD
Stiffness Adjustment	Yes (Iterative)

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

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

Code	ASCE 7-10
Risk Category	I or II
Drift Cat	Other

Model Settings (Continued)

Base Elevation (ft)	
Include the weight of the structure in base shear calcs	Yes
S_1 (g)	1
SD_1 (g)	1
SD_s (g)	1
T_L (sec)	5
T Z (sec)	
T X (sec)	
C_tZ	0.02
C_tX	0.02
C_tExp. Z	0.75
C_tExp. X	0.75
R Z	3
R X	3
Ω_0Z	1
Ω_0X	1
C_dZ	4
C_dX	4
ρ Z	1
ρ X	1

General Section Sets

	Label	Shape	Type	Material	Area [in²]	Iyy [in⁴]	Izz [in⁴]	J [in⁴]
1	GEN1A	RE4X4	Beam	gen_Conc3NW	16	21.333	21.333	31.573
2	RIGID		None	RIGID	1e+6	1e+6	1e+6	1e+6

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design Rule	Area [in²]	Iyy [in⁴]	Izz [in⁴]	J [in⁴]
1	T-Arm	HSS5X3X8	Beam	None	A500 Gr.B Rect	Typical	6.02	7.18	16.4	17.6
2	Corner	1/4X5-1/2	Beam	None	A36 Gr.36	Typical	1.375	0.007	3.466	0.028
3	Stiffener	T5.25X3.75X0.25	Beam	None	A36 Gr.36	Typical	2.188	1.105	6.3	0.046
4	Antenna Pipe	HSS2.375X0.154	Beam	None	A53 Gr.B	Typical	1	0.627	0.627	1.25
5	Handrail Corner	L5X3X4	Beam	None	A36 Gr.36	Typical	1.94	1.41	5.09	0.044
6	Kicker Angle	LL3X3X3X3	Beam	None	A36 Gr.36	Typical	2.18	4.09	1.9	0.027

Hot Rolled Steel Properties

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

Cold Formed Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm. Coeff. [1e⁵°F⁻¹]	Density [k/ft³]	Yield [ksi]	Fu [ksi]
1	A36	29500	11346	0.3	0.65	0.49	36	58

General Materials Properties

	Label	E [ksi]	G [ksi]	Nu	Therm. Coeff. [1e⁵°F⁻¹]	Density [k/ft³]	Plate Methodology
1	gen_Conc3NW	3155	1372	0.15	0.6	0.145	Isotropic
2	gen_Conc4NW	3644	1584	0.15	0.6	0.145	Isotropic
3	gen_Conc3LW	2085	906	0.15	0.6	0.11	Isotropic
4	gen_Conc4LW	2408	1047	0.15	0.6	0.11	Isotropic
5	gen_Alum	10600	4077	0.3	1.29	0.173	Isotropic
6	gen_Steel	29000	11154	0.3	0.65	0.49	Isotropic
7	RIGID	1e+6		0.3	0	0	Isotropic

Member Primary Data

	Label	I Node	J Node	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rule
1	SO2	N10	N14		HSS5X3X8	None	None	A500 Gr.B Rect	Typical
2	SO1	N11	N15		HSS5X3X8	None	None	A500 Gr.B Rect	Typical
3	SO4	N12	N16		HSS5X3X8	None	None	A500 Gr.B Rect	Typical
4	SO3	N13	N17		HSS5X3X8	None	None	A500 Gr.B Rect	Typical
5	BR1	N2	N3		OUTERFACE	Beam	CU	A36	Typical
6	BR3	N3	N4		INNERFACE	Beam	CU	A36	Typical
7	BR5	N5	N6		INNERFACE	Beam	CU	A36	Typical
8	BR7	N8	N9		INNERFACE	Beam	CU	A36	Typical
9	CBB1	N18	N19	180	OUTERFACE	Beam	CU	A36	Typical
10	CBA1	N20	N21	180	OUTERFACE	Beam	CU	A36	Typical
11	CBD1	N23	N24	180	OUTERFACE	Beam	CU	A36	Typical
12	CBC1	N202A	N28	180	OUTERFACE	Beam	CU	A36	Typical

Member Primary Data (Continued)

	Label	I Node	J Node	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rule
13	CP1	N19	N20		PL5.5X1/4	VBrace	RECT	A36 Gr.36	Typical
14	CP2	N22	N23		PL5.5X1/4	VBrace	RECT	A36 Gr.36	Typical
15	CP3	N25	N26		PL5.5X1/4	VBrace	RECT	A36 Gr.36	Typical
16	CP4	N28	N29		PL5.5X1/4	VBrace	RECT	A36 Gr.36	Typical
17	BR9	N3	N30		PL5.5X1/4	VBrace	RECT	A36 Gr.36	Typical
18	BR10	N5	N31		PL5.5X1/4	VBrace	RECT	A36 Gr.36	Typical
19	BR11	N7	N32		PL5.5X1/4	VBrace	RECT	A36 Gr.36	Typical
20	BR12	N9	N33		PL5.5X1/4	VBrace	RECT	A36 Gr.36	Typical
21	BR13	N35	N34		STIFFENER	Beam	W Tee	A36 Gr.36	Typical
22	BR14	N36	N37		STIFFENER	Beam	W Tee	A36 Gr.36	Typical
23	BR15	N39	N38		STIFFENER	Beam	W Tee	A36 Gr.36	Typical
24	BR16	N41	N40		STIFFENER	Beam	W Tee	A36 Gr.36	Typical
25	BR17	N44	N45		STIFFENER	Beam	W Tee	A36 Gr.36	Typical
26	BR18	N46	N47		STIFFENER	Beam	W Tee	A36 Gr.36	Typical
27	BR19	N48	N49		STIFFENER	Beam	W Tee	A36 Gr.36	Typical
28	BR20	N50	N51		STIFFENER	Beam	W Tee	A36 Gr.36	Typical
29	BR21	N54	N55		STIFFENER	Beam	W Tee	A36 Gr.36	Typical
30	BR22	N56	N57		STIFFENER	Beam	W Tee	A36 Gr.36	Typical
31	BR23	N58	N59		STIFFENER	Beam	W Tee	A36 Gr.36	Typical
32	BR24	N60	N61		STIFFENER	Beam	W Tee	A36 Gr.36	Typical
33	BR25	N64	N65		STIFFENER	Beam	W Tee	A36 Gr.36	Typical
34	BR26	N66	N67		STIFFENER	Beam	W Tee	A36 Gr.36	Typical
35	BR27	N68	N69		STIFFENER	Beam	W Tee	A36 Gr.36	Typical
36	BR28	N70	N71		STIFFENER	Beam	W Tee	A36 Gr.36	Typical
37	BR29	N74	N75		STIFFENER	Beam	W Tee	A36 Gr.36	Typical
38	BR30	N76	N77		STIFFENER	Beam	W Tee	A36 Gr.36	Typical
39	BR31	N78	N79		STIFFENER	Beam	W Tee	A36 Gr.36	Typical
40	BR32	N80	N81		STIFFENER	Beam	W Tee	A36 Gr.36	Typical
41	BR33	N84	N85		STIFFENER	Beam	W Tee	A36 Gr.36	Typical
42	BR34	N86	N87		STIFFENER	Beam	W Tee	A36 Gr.36	Typical
43	BR35	N88	N89		STIFFENER	Beam	W Tee	A36 Gr.36	Typical
44	BR36	N90	N91		STIFFENER	Beam	W Tee	A36 Gr.36	Typical
45	BR37	N94	N95		STIFFENER	Beam	W Tee	A36 Gr.36	Typical
46	BR38	N96	N97		STIFFENER	Beam	W Tee	A36 Gr.36	Typical
47	BR39	N98	N99		STIFFENER	Beam	W Tee	A36 Gr.36	Typical
48	BR40	N100	N101		STIFFENER	Beam	W Tee	A36 Gr.36	Typical
49	BR41	N104	N105		STIFFENER	Beam	W Tee	A36 Gr.36	Typical
50	BR42	N106	N107		STIFFENER	Beam	W Tee	A36 Gr.36	Typical
51	BR43	N108	N109		STIFFENER	Beam	W Tee	A36 Gr.36	Typical
52	BR44	N110	N111		STIFFENER	Beam	W Tee	A36 Gr.36	Typical
53	MP1D	N121	N119		PIPE 2.0	None	None	A53 Gr.B	Typical
54	MP3C	N128	N126		PIPE 2.0	None	None	A53 Gr.B	Typical
55	MP4C	N129	N127		PIPE 2.0	None	None	A53 Gr.B	Typical
56	MP1C	N137	N135		PIPE 2.0	None	None	A53 Gr.B	Typical
57	MP3B	N144	N142		PIPE 2.0	None	None	A53 Gr.B	Typical
58	MP4B	N145	N143		PIPE 2.0	None	None	A53 Gr.B	Typical
59	MP1B	N153	N151		PIPE 2.0	None	None	A53 Gr.B	Typical
60	MP3A	N154	N158		PIPE 2.0	None	None	A53 Gr.B	Typical
61	MP4A	N161	N159		PIPE 2.0	None	None	A53 Gr.B	Typical
62	MP1A	N169	N167		PIPE 2.0	None	None	A53 Gr.B	Typical
63	MP3D	N176	N174		PIPE 2.0	None	None	A53 Gr.B	Typical
64	MP4D	N177	N175		PIPE 2.0	None	None	A53 Gr.B	Typical
65	CP5	N179	N178	90	L5X3X4	None	None	A36 Gr.36	Typical
66	CP6	N181	N180	90	L5X3X4	None	None	A36 Gr.36	Typical
67	CP7	N183	N182	90	L5X3X4	None	None	A36 Gr.36	Typical

Member Primary Data (Continued)

	Label	I Node	J Node	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rule
68	CP8	N185	N184	90	L5X3X4	None	None	A36 Gr.36	Typical
69	CBB2	N185	N178		PIPE 2.0	None	None	A53 Gr.B	Typical
70	CBA2	N179	N180		PIPE 2.0	None	None	A53 Gr.B	Typical
71	CBD2	N181	N182		PIPE 2.0	None	None	A53 Gr.B	Typical
72	CBC2	N183	N184		PIPE 2.0	None	None	A53 Gr.B	Typical
73	M89	N163	N178A		RIGID	None	None	RIGID	Typical
74	M90	N165	N180A		RIGID	None	None	RIGID	Typical
75	M93	N190	N181A		RIGID	None	None	RIGID	Typical
76	M94	N156	N175A		RIGID	None	None	RIGID	Typical
77	M95	N155	N174A		RIGID	None	None	RIGID	Typical
78	M96	N157	N176A		RIGID	None	None	RIGID	Typical
79	M97	N147	N186A		RIGID	None	None	RIGID	Typical
80	M99	N138	N181B		RIGID	None	None	RIGID	Typical
81	M100	N139	N182A		RIGID	None	None	RIGID	Typical
82	M101	N141	N184A		RIGID	None	None	RIGID	Typical
83	M102	N140	N183A		RIGID	None	None	RIGID	Typical
84	M104	N149	N188A		RIGID	None	None	RIGID	Typical
85	M105	N133	N196		RIGID	None	None	RIGID	Typical
86	M106	N131	N194		RIGID	None	None	RIGID	Typical
87	M109	N124	N191		RIGID	None	None	RIGID	Typical
88	M110	N122	N189A		RIGID	None	None	RIGID	Typical
89	M111	N125	N192		RIGID	None	None	RIGID	Typical
90	M112	N123	N190A		RIGID	None	None	RIGID	Typical
91	M113	N171	N202		RIGID	None	None	RIGID	Typical
92	M114	N173	N204		RIGID	None	None	RIGID	Typical
93	M115	N172	N203		RIGID	None	None	RIGID	Typical
94	M116	N170	N201		RIGID	None	None	RIGID	Typical
95	M119	N117	N200		RIGID	None	None	RIGID	Typical
96	M120	N115	N198		RIGID	None	None	RIGID	Typical
97	M97A	N5	N4	180	INNERFACE	Beam	CU	A36	Typical
98	M98	N8	N7	180	INNERFACE	Beam	CU	A36	Typical
99	M99A	N22	N21		OUTERFACE	Beam	CU	A36	Typical
100	M100A	N202A	N26		OUTERFACE	Beam	CU	A36	Typical
101	M101A	N2	N9	180	OUTERFACE	Beam	CU	A36	Typical
102	M102A	N7	N6	180	INNERFACE	Beam	CU	A36	Typical
103	M103	N18	N29		OUTERFACE	Beam	CU	A36	Typical
104	M104A	N25	N24		OUTERFACE	Beam	CU	A36	Typical
105	M109A	N11	N203A		RIGID	None	None	RIGID	Typical
106	M110A	N11	N205A		RIGID	None	None	RIGID	Typical
107	M111A	N203A	N204A		PL3/8X8.5	VBrace	RECT	A36 Gr.36	Typical
108	M112A	N205A	N206A		PL3/8X8.5	VBrace	RECT	A36 Gr.36	Typical
109	M113A	N12	N208A		RIGID	None	None	RIGID	Typical
110	M114A	N12	N210A		RIGID	None	None	RIGID	Typical
111	M115A	N208A	N209A		PL3/8X8.5	VBrace	RECT	A36 Gr.36	Typical
112	M116A	N210A	N211A		PL3/8X8.5	VBrace	RECT	A36 Gr.36	Typical
113	M117	N13	N213A		RIGID	None	None	RIGID	Typical
114	M118	N13	N215A		RIGID	None	None	RIGID	Typical
115	M119A	N213A	N214A		PL3/8X8.5	VBrace	RECT	A36 Gr.36	Typical
116	M120A	N215A	N216A		PL3/8X8.5	VBrace	RECT	A36 Gr.36	Typical
117	M121	N10	N199		RIGID	None	None	RIGID	Typical
118	M122	N10	N201A		RIGID	None	None	RIGID	Typical
119	M123	N199	N200A		PL3/8X8.5	VBrace	RECT	A36 Gr.36	Typical
120	M124	N201A	N202B		PL3/8X8.5	VBrace	RECT	A36 Gr.36	Typical
121	MP2A	N217	N218		PIPE 2.0	None	None	A53 Gr.B	Typical
122	M126	N162	N219		RIGID	None	None	RIGID	Typical

Member Primary Data (Continued)

	Label	I Node	J Node	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rule
123	M127	N164	N220		RIGID	None	None	RIGID	Typical
124	MP2B	N222	N221		PIPE_2.0	None	None	A53 Gr.B	Typical
125	M129	N148	N223		RIGID	None	None	RIGID	Typical
126	M130	N146	N224		RIGID	None	None	RIGID	Typical
127	M131	N132	N225		RIGID	None	None	RIGID	Typical
128	M133	N130	N228		RIGID	None	None	RIGID	Typical
129	MP2C	N230	N229		PIPE_2.0	None	None	A53 Gr.B	Typical
130	MP2D	N232	N231		PIPE_2.0	None	None	A53 Gr.B	Typical
131	M135	N116	N233		RIGID	None	None	RIGID	Typical
132	M136	N114	N234		RIGID	None	None	RIGID	Typical
133	MP5A	N236	N237		PIPE_2.0	Beam	None	A53 Gr.B	Typical
134	M137	N205	N235		RIGID	None	None	RIGID	Typical
135	MP5D	N239	N240		PIPE_2.0	Beam	None	A53 Gr.B	Typical
136	MP5C	N242	N241		PIPE_2.0	Beam	None	A53 Gr.B	Typical
137	M140	N238	N208		RIGID	None	None	RIGID	Typical
138	M141	N211	N243		RIGID	None	None	RIGID	Typical

Member Advanced Data

	Label	I Release	J Release	Col-Wall Vert Release	Physical	Deflection Ratio Options	Seismic DR
1	SO2				Yes	** NA **	None
2	SO1				Yes	** NA **	None
3	SO4				Yes	** NA **	None
4	SO3				Yes	** NA **	None
5	BR1		BenPIN		Yes	Default	None
6	BR3	BenPIN			Yes	Default	None
7	BR5	BenPIN			Yes	Default	None
8	BR7		BenPIN		Yes	Default	None
9	CBB1		BenPIN		Yes	Default	None
10	CBA1	BenPIN			Yes	Default	None
11	CBD1	BenPIN			Yes	Default	None
12	CBC1		BenPIN		Yes	Default	None
13	CP1				Yes	** NA **	None
14	CP2				Yes	** NA **	None
15	CP3				Yes	** NA **	None
16	CP4				Yes	** NA **	None
17	BR9				Yes	** NA **	None
18	BR10				Yes	** NA **	None
19	BR11				Yes	** NA **	None
20	BR12				Yes	** NA **	None
21	BR13				Yes	Default	None
22	BR14				Yes	Default	None
23	BR15				Yes	Default	None
24	BR16				Yes	Default	None
25	BR17				Yes	Default	None
26	BR18				Yes	Default	None
27	BR19				Yes	Default	None
28	BR20				Yes	Default	None
29	BR21				Yes	Default	None
30	BR22				Yes	Default	None
31	BR23				Yes	Default	None
32	BR24				Yes	Default	None
33	BR25				Yes	Default	None
34	BR26				Yes	Default	None
35	BR27				Yes	Default	None
36	BR28				Yes	Default	None

Member Advanced Data (Continued)

	Label	I Release	J Release	Col-Wall Vert Release	Physical	Deflection Ratio Options	Seismic DR
37	BR29				Yes	Default	None
38	BR30				Yes	Default	None
39	BR31				Yes	Default	None
40	BR32				Yes	Default	None
41	BR33				Yes	Default	None
42	BR34				Yes	Default	None
43	BR35				Yes	Default	None
44	BR36				Yes	Default	None
45	BR37				Yes	Default	None
46	BR38				Yes	Default	None
47	BR39				Yes	Default	None
48	BR40				Yes	Default	None
49	BR41				Yes	Default	None
50	BR42				Yes	Default	None
51	BR43				Yes	Default	None
52	BR44				Yes	Default	None
53	MP1D				Yes	** NA **	None
54	MP3C				Yes	** NA **	None
55	MP4C				Yes	** NA **	None
56	MP1C				Yes	** NA **	None
57	MP3B				Yes	** NA **	None
58	MP4B				Yes	** NA **	None
59	MP1B				Yes	** NA **	None
60	MP3A				Yes	** NA **	None
61	MP4A				Yes	** NA **	None
62	MP1A				Yes	** NA **	None
63	MP3D				Yes	** NA **	None
64	MP4D				Yes	** NA **	None
65	CP5				Yes	** NA **	None
66	CP6				Yes	** NA **	None
67	CP7				Yes	** NA **	None
68	CP8				Yes	** NA **	None
69	CBB2				Yes	** NA **	None
70	CBA2				Yes	** NA **	None
71	CBD2				Yes	** NA **	None
72	CBC2				Yes	** NA **	None
73	M89				Yes	** NA **	None
74	M90	OOOXOX			Yes	** NA **	None
75	M93				Yes	** NA **	None
76	M94	OOOXOX			Yes	** NA **	None
77	M95				Yes	** NA **	None
78	M96	OOOXOX			Yes	** NA **	None
79	M97				Yes	** NA **	None
80	M99				Yes	** NA **	None
81	M100				Yes	** NA **	None
82	M101	OOOXOX			Yes	** NA **	None
83	M102	OOOXOX			Yes	** NA **	None
84	M104	OOOXOX			Yes	** NA **	None
85	M105	OOOXOX			Yes	** NA **	None
86	M106				Yes	** NA **	None
87	M109	OOOXOX			Yes	** NA **	None
88	M110				Yes	** NA **	None
89	M111	OOOXOX			Yes	** NA **	None
90	M112				Yes	** NA **	None
91	M113				Yes	** NA **	None

Member Advanced Data (Continued)

	Label	I Release	J Release	Col-Wall Vert Release	Physical	Deflection Ratio Options	Seismic DR
92	M114	OOOXOX			Yes	** NA **	None
93	M115	OOOXOX			Yes	** NA **	None
94	M116				Yes	** NA **	None
95	M119	OOOXOX			Yes	** NA **	None
96	M120				Yes	** NA **	None
97	M97A	BenPIN			Yes	Default	None
98	M98		BenPIN		Yes	Default	None
99	M99A	BenPIN			Yes	Default	None
100	M100A		BenPIN		Yes	Default	None
101	M101A		BenPIN		Yes	Default	None
102	M102A	BenPIN			Yes	Default	None
103	M103		BenPIN		Yes	Default	None
104	M104A	BenPIN			Yes	Default	None
105	M109A				Yes	** NA **	None
106	M110A				Yes	** NA **	None
107	M111A				Yes	** NA **	None
108	M112A				Yes	** NA **	None
109	M113A				Yes	** NA **	None
110	M114A				Yes	** NA **	None
111	M115A				Yes	** NA **	None
112	M116A				Yes	** NA **	None
113	M117				Yes	** NA **	None
114	M118				Yes	** NA **	None
115	M119A				Yes	** NA **	None
116	M120A				Yes	** NA **	None
117	M121				Yes	** NA **	None
118	M122				Yes	** NA **	None
119	M123				Yes	** NA **	None
120	M124				Yes	** NA **	None
121	MP2A				Yes	** NA **	None
122	M126				Yes	** NA **	None
123	M127	OOOXOX			Yes	** NA **	None
124	MP2B				Yes	** NA **	None
125	M129	OOOXOX			Yes	** NA **	None
126	M130				Yes	** NA **	None
127	M131	OOOXOX			Yes	** NA **	None
128	M133				Yes	** NA **	None
129	MP2C				Yes	** NA **	None
130	MP2D				Yes	** NA **	None
131	M135	OOOXOX			Yes	** NA **	None
132	M136				Yes	** NA **	None
133	MP5A				Yes	Default	None
134	M137				Yes	** NA **	None
135	MP5D				Yes	Default	None
136	MP5C				Yes	Default	None
137	M140				Yes	** NA **	None
138	M141				Yes	** NA **	None

Hot Rolled Steel Design Parameters

	Label	Shape	Length [ft]	Lcomp top [ft]	Channel Conn.	a [ft]	Function
1	SO2	HSS5X3X8	6.2	Lbyy	N/A	N/A	Lateral
2	SO1	HSS5X3X8	6.2	Lbyy	N/A	N/A	Lateral
3	SO4	HSS5X3X8	6.2	Lbyy	N/A	N/A	Lateral
4	SO3	HSS5X3X8	6.2	Lbyy	N/A	N/A	Lateral
5	CP1	PL5.5X1/4	1.315	Lbyy	N/A	N/A	Lateral

Hot Rolled Steel Design Parameters (Continued)

	Label	Shape	Length [ft]	Lcomp top [ft]	Channel Conn.	a [ft]	Function
6	CP2	PL5.5X1/4	1.315	Lbyy	N/A	N/A	Lateral
7	CP3	PL5.5X1/4	1.315	Lbyy	N/A	N/A	Lateral
8	CP4	PL5.5X1/4	1.315	Lbyy	N/A	N/A	Lateral
9	BR9	PL5.5X1/4	1.619	Lbyy	N/A	N/A	Lateral
10	BR10	PL5.5X1/4	1.619	Lbyy	N/A	N/A	Lateral
11	BR11	PL5.5X1/4	1.619	Lbyy	N/A	N/A	Lateral
12	BR12	PL5.5X1/4	1.619	Lbyy	N/A	N/A	Lateral
13	BR13	STIFFENER	1.61	Lbyy	N/A	N/A	Lateral
14	BR14	STIFFENER	1.61	Lbyy	N/A	N/A	Lateral
15	BR15	STIFFENER	1.61	Lbyy	N/A	N/A	Lateral
16	BR16	STIFFENER	1.61	Lbyy	N/A	N/A	Lateral
17	BR17	STIFFENER	1.61	Lbyy	N/A	N/A	Lateral
18	BR18	STIFFENER	1.61	Lbyy	N/A	N/A	Lateral
19	BR19	STIFFENER	1.61	Lbyy	N/A	N/A	Lateral
20	BR20	STIFFENER	1.61	Lbyy	N/A	N/A	Lateral
21	BR21	STIFFENER	1.61	Lbyy	N/A	N/A	Lateral
22	BR22	STIFFENER	1.61	Lbyy	N/A	N/A	Lateral
23	BR23	STIFFENER	1.61	Lbyy	N/A	N/A	Lateral
24	BR24	STIFFENER	1.61	Lbyy	N/A	N/A	Lateral
25	BR25	STIFFENER	1.61	Lbyy	N/A	N/A	Lateral
26	BR26	STIFFENER	1.61	Lbyy	N/A	N/A	Lateral
27	BR27	STIFFENER	1.61	Lbyy	N/A	N/A	Lateral
28	BR28	STIFFENER	1.61	Lbyy	N/A	N/A	Lateral
29	BR29	STIFFENER	1.61	Lbyy	N/A	N/A	Lateral
30	BR30	STIFFENER	1.61	Lbyy	N/A	N/A	Lateral
31	BR31	STIFFENER	1.61	Lbyy	N/A	N/A	Lateral
32	BR32	STIFFENER	1.61	Lbyy	N/A	N/A	Lateral
33	BR33	STIFFENER	1.61	Lbyy	N/A	N/A	Lateral
34	BR34	STIFFENER	1.61	Lbyy	N/A	N/A	Lateral
35	BR35	STIFFENER	1.61	Lbyy	N/A	N/A	Lateral
36	BR36	STIFFENER	1.61	Lbyy	N/A	N/A	Lateral
37	BR37	STIFFENER	1.61	Lbyy	N/A	N/A	Lateral
38	BR38	STIFFENER	1.61	Lbyy	N/A	N/A	Lateral
39	BR39	STIFFENER	1.61	Lbyy	N/A	N/A	Lateral
40	BR40	STIFFENER	1.61	Lbyy	N/A	N/A	Lateral
41	BR41	STIFFENER	1.61	Lbyy	N/A	N/A	Lateral
42	BR42	STIFFENER	1.61	Lbyy	N/A	N/A	Lateral
43	BR43	STIFFENER	1.61	Lbyy	N/A	N/A	Lateral
44	BR44	STIFFENER	1.61	Lbyy	N/A	N/A	Lateral
45	MP1D	PIPE_2.0	8	Lbyy	N/A	N/A	Lateral
46	MP3C	PIPE_2.0	8	Lbyy	N/A	N/A	Lateral
47	MP4C	PIPE_2.0	8	Lbyy	N/A	N/A	Lateral
48	MP1C	PIPE_2.0	8	Lbyy	N/A	N/A	Lateral
49	MP3B	PIPE_2.0	8	Lbyy	N/A	N/A	Lateral
50	MP4B	PIPE_2.0	8	Lbyy	N/A	N/A	Lateral
51	MP1B	PIPE_2.0	8	Lbyy	N/A	N/A	Lateral
52	MP3A	PIPE_2.0	8	Lbyy	N/A	N/A	Lateral
53	MP4A	PIPE_2.0	8	Lbyy	N/A	N/A	Lateral
54	MP1A	PIPE_2.0	8	Lbyy	N/A	N/A	Lateral
55	MP3D	PIPE_2.0	8	Lbyy	N/A	N/A	Lateral
56	MP4D	PIPE_2.0	8	Lbyy	N/A	N/A	Lateral
57	CP5	L5X3X4	1.457	Lbyy	N/A	N/A	Lateral
58	CP6	L5X3X4	1.457	Lbyy	N/A	N/A	Lateral
59	CP7	L5X3X4	1.457	Lbyy	N/A	N/A	Lateral
60	CP8	L5X3X4	1.457	Lbyy	N/A	N/A	Lateral

Hot Rolled Steel Design Parameters (Continued)

	Label	Shape	Length [ft]	Lcomp top [ft]	Channel Conn.	a [ft]	Function
61	CBB2	PIPE_2.0	10.94	Lbyy	N/A	N/A	Lateral
62	CBA2	PIPE_2.0	10.94	Lbyy	N/A	N/A	Lateral
63	CBD2	PIPE_2.0	10.94	Lbyy	N/A	N/A	Lateral
64	CBC2	PIPE_2.0	10.94	Lbyy	N/A	N/A	Lateral
65	M111A	PL3/8X8.5	0.083		N/A	N/A	Lateral
66	M112A	PL3/8X8.5	0.083		N/A	N/A	Lateral
67	M115A	PL3/8X8.5	0.083		N/A	N/A	Lateral
68	M116A	PL3/8X8.5	0.083		N/A	N/A	Lateral
69	M119A	PL3/8X8.5	0.083		N/A	N/A	Lateral
70	M120A	PL3/8X8.5	0.083		N/A	N/A	Lateral
71	M123	PL3/8X8.5	0.083		N/A	N/A	Lateral
72	M124	PL3/8X8.5	0.083		N/A	N/A	Lateral
73	MP2A	PIPE_2.0	8	Lbyy	N/A	N/A	Lateral
74	MP2B	PIPE_2.0	8	Lbyy	N/A	N/A	Lateral
75	MP2C	PIPE_2.0	8	Lbyy	N/A	N/A	Lateral
76	MP2D	PIPE_2.0	8	Lbyy	N/A	N/A	Lateral
77	MP5A	PIPE_2.0	6	Lbyy	N/A	N/A	Lateral
78	MP5D	PIPE_2.0	6	Lbyy	N/A	N/A	Lateral
79	MP5C	PIPE_2.0	6	Lbyy	N/A	N/A	Lateral

Cold Formed Steel Design Parameters

	Label	Shape	Length [ft]	Lb y-y [ft]	Lb z-z [ft]	Lcomp top [ft]	Lcomp bot [ft]	L-Torque [ft]	Function
1	BR1	OUTERFACE	4.89	Segment	Segment	Segment	Segment	Segment	Lateral
2	BR3	INNERFACE	4.89	Segment	Segment	Segment	Segment	Segment	Lateral
3	BR5	INNERFACE	4.89	Segment	Segment	Segment	Segment	Segment	Lateral
4	BR7	INNERFACE	4.89	Segment	Segment	Segment	Segment	Segment	Lateral
5	CBB1	OUTERFACE	5.57	Segment	Segment	Segment	Segment	Segment	Lateral
6	CBA1	OUTERFACE	5.57	Segment	Segment	Segment	Segment	Segment	Lateral
7	CBD1	OUTERFACE	5.57	Segment	Segment	Segment	Segment	Segment	Lateral
8	CBC1	OUTERFACE	5.57	Segment	Segment	Segment	Segment	Segment	Lateral
9	M97A	INNERFACE	4.89	Segment	Segment	Segment	Segment	Segment	Lateral
10	M98	INNERFACE	4.89	Segment	Segment	Segment	Segment	Segment	Lateral
11	M99A	OUTERFACE	5.57	Segment	Segment	Segment	Segment	Segment	Lateral
12	M100A	OUTERFACE	5.57	Segment	Segment	Segment	Segment	Segment	Lateral
13	M101A	OUTERFACE	4.89	Segment	Segment	Segment	Segment	Segment	Lateral
14	M102A	INNERFACE	4.89	Segment	Segment	Segment	Segment	Segment	Lateral
15	M103	OUTERFACE	5.57	Segment	Segment	Segment	Segment	Segment	Lateral
16	M104A	OUTERFACE	5.57	Segment	Segment	Segment	Segment	Segment	Lateral

Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Nodal	Point	Distributed	Area(Member)
1	Antenna D	None					90		
2	Antenna Di	None					90		
3	Antenna Wo (0 Deg)	None					90		
4	Antenna Wo (30 Deg)	None					90		
5	Antenna Wo (60 Deg)	None					90		
6	Antenna Wo (90 Deg)	None					90		
7	Antenna Wo (120 Deg)	None					90		
8	Antenna Wo (150 Deg)	None					90		
9	Antenna Wo (180 Deg)	None					90		
10	Antenna Wo (210 Deg)	None					90		
11	Antenna Wo (240 Deg)	None					90		
12	Antenna Wo (270 Deg)	None					90		

Basic Load Cases (Continued)

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Nodal	Point	Distributed	Area(Member)
13	Antenna Wo (300 Deg)	None					90		
14	Antenna Wo (330 Deg)	None					90		
15	Antenna Wi (0 Deg)	None					90		
16	Antenna Wi (30 Deg)	None					90		
17	Antenna Wi (60 Deg)	None					90		
18	Antenna Wi (90 Deg)	None					90		
19	Antenna Wi (120 Deg)	None					90		
20	Antenna Wi (150 Deg)	None					90		
21	Antenna Wi (180 Deg)	None					90		
22	Antenna Wi (210 Deg)	None					90		
23	Antenna Wi (240 Deg)	None					90		
24	Antenna Wi (270 Deg)	None					90		
25	Antenna Wi (300 Deg)	None					90		
26	Antenna Wi (330 Deg)	None					90		
27	Antenna Wm (0 Deg)	None					90		
28	Antenna Wm (30 Deg)	None					90		
29	Antenna Wm (60 Deg)	None					90		
30	Antenna Wm (90 Deg)	None					90		
31	Antenna Wm (120 Deg)	None					90		
32	Antenna Wm (150 Deg)	None					90		
33	Antenna Wm (180 Deg)	None					90		
34	Antenna Wm (210 Deg)	None					90		
35	Antenna Wm (240 Deg)	None					90		
36	Antenna Wm (270 Deg)	None					90		
37	Antenna Wm (300 Deg)	None					90		
38	Antenna Wm (330 Deg)	None					90		
39	Structure D	None		-1					4
40	Structure Di	None						95	4
41	Structure Wo (0 Deg)	None						190	
42	Structure Wo (30 Deg)	None						190	
43	Structure Wo (60 Deg)	None						190	
44	Structure Wo (90 Deg)	None						190	
45	Structure Wo (120 Deg)	None						190	
46	Structure Wo (150 Deg)	None						190	
47	Structure Wo (180 Deg)	None						190	
48	Structure Wo (210 Deg)	None						190	
49	Structure Wo (240 Deg)	None						190	
50	Structure Wo (270 Deg)	None						190	
51	Structure Wo (300 Deg)	None						190	
52	Structure Wo (330 Deg)	None						190	
53	Structure Wi (0 Deg)	None						190	
54	Structure Wi (30 Deg)	None						190	
55	Structure Wi (60 Deg)	None						190	
56	Structure Wi (90 Deg)	None						190	
57	Structure Wi (120 Deg)	None						190	
58	Structure Wi (150 Deg)	None						190	
59	Structure Wi (180 Deg)	None						190	
60	Structure Wi (210 Deg)	None						190	
61	Structure Wi (240 Deg)	None						190	
62	Structure Wi (270 Deg)	None						190	
63	Structure Wi (300 Deg)	None						190	
64	Structure Wi (330 Deg)	None						190	
65	Structure Wm (0 Deg)	None						190	
66	Structure Wm (30 Deg)	None						190	
67	Structure Wm (60 Deg)	None						190	

Basic Load Cases (Continued)

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Nodal	Point	Distributed	Area(Member)
68	Structure Wm (90 Deg)	None						190	
69	Structure Wm (120 Deg)	None						190	
70	Structure Wm (150 Deg)	None						190	
71	Structure Wm (180 Deg)	None						190	
72	Structure Wm (210 Deg)	None						190	
73	Structure Wm (240 Deg)	None						190	
74	Structure Wm (270 Deg)	None						190	
75	Structure Wm (300 Deg)	None						190	
76	Structure Wm (330 Deg)	None						190	
77	Lm1	None				1			
78	Lm2	None				1			
79	Lv1	None				1			
80	Lv2	None				1			
81	Antenna Ev	None					90		
82	Antenna Eh (0 Deg)	None					60		
83	Antenna Eh (90 Deg)	None					60		
84	Structure Ev	ELY		-0.015					
85	Structure Eh (0 Deg)	ELZ			-0.038				
86	Structure Eh (90 Deg)	ELX	0.038						
87	BLC 39 Transient Area Loads	None						57	
88	BLC 40 Transient Area Loads	None						57	

Load Combinations

	Description	Solve	P-Delta	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor
1	1.2D+1.0Wo (0 Deg)	Yes	Y	1	1.2	39	1.2	3	1	41	1								
2	1.2D+1.0Wo (30 Deg)	Yes	Y	1	1.2	39	1.2	4	1	42	1								
3	1.2D+1.0Wo (60 Deg)	Yes	Y	1	1.2	39	1.2	5	1	43	1								
4	1.2D+1.0Wo (90 Deg)	Yes	Y	1	1.2	39	1.2	6	1	44	1								
5	1.2D+1.0Wo (120 Deg)	Yes	Y	1	1.2	39	1.2	7	1	45	1								
6	1.2D+1.0Wo (150 Deg)	Yes	Y	1	1.2	39	1.2	8	1	46	1								
7	1.2D+1.0Wo (180 Deg)	Yes	Y	1	1.2	39	1.2	9	1	47	1								
8	1.2D+1.0Wo (210 Deg)	Yes	Y	1	1.2	39	1.2	10	1	48	1								
9	1.2D+1.0Wo (240 Deg)	Yes	Y	1	1.2	39	1.2	11	1	49	1								
10	1.2D+1.0Wo (270 Deg)	Yes	Y	1	1.2	39	1.2	12	1	50	1								
11	1.2D+1.0Wo (300 Deg)	Yes	Y	1	1.2	39	1.2	13	1	51	1								
12	1.2D+1.0Wo (330 Deg)	Yes	Y	1	1.2	39	1.2	14	1	52	1								
13	1.2D + 1.0Di + 1.0Wi (0 Deg)	Yes	Y	1	1.2	39	1.2	2	1	40	1	15	1	53	1				
14	1.2D + 1.0Di + 1.0Wi (30 Deg)	Yes	Y	1	1.2	39	1.2	2	1	40	1	16	1	54	1				
15	1.2D + 1.0Di + 1.0Wi (60 Deg)	Yes	Y	1	1.2	39	1.2	2	1	40	1	17	1	55	1				
16	1.2D + 1.0Di + 1.0Wi (90 Deg)	Yes	Y	1	1.2	39	1.2	2	1	40	1	18	1	56	1				
17	1.2D + 1.0Di + 1.0Wi (120 Deg)	Yes	Y	1	1.2	39	1.2	2	1	40	1	19	1	57	1				
18	1.2D + 1.0Di + 1.0Wi (150 Deg)	Yes	Y	1	1.2	39	1.2	2	1	40	1	20	1	58	1				
19	1.2D + 1.0Di + 1.0Wi (180 Deg)	Yes	Y	1	1.2	39	1.2	2	1	40	1	21	1	59	1				
20	1.2D + 1.0Di + 1.0Wi (210 Deg)	Yes	Y	1	1.2	39	1.2	2	1	40	1	22	1	60	1				
21	1.2D + 1.0Di + 1.0Wi (240 Deg)	Yes	Y	1	1.2	39	1.2	2	1	40	1	23	1	61	1				
22	1.2D + 1.0Di + 1.0Wi (270 Deg)	Yes	Y	1	1.2	39	1.2	2	1	40	1	24	1	62	1				
23	1.2D + 1.0Di + 1.0Wi (300 Deg)	Yes	Y	1	1.2	39	1.2	2	1	40	1	25	1	63	1				
24	1.2D + 1.0Di + 1.0Wi (330 Deg)	Yes	Y	1	1.2	39	1.2	2	1	40	1	26	1	64	1				
25	1.2D + 1.5Lm1 + 1.0Wm (0 Deg)	Yes	Y	1	1.2	39	1.2	77	1.5	27	1	65	1						
26	1.2D + 1.5Lm1 + 1.0Wm (30 Deg)	Yes	Y	1	1.2	39	1.2	77	1.5	28	1	66	1						
27	1.2D + 1.5Lm1 + 1.0Wm (60 Deg)	Yes	Y	1	1.2	39	1.2	77	1.5	29	1	67	1						
28	1.2D + 1.5Lm1 + 1.0Wm (90 Deg)	Yes	Y	1	1.2	39	1.2	77	1.5	30	1	68	1						
29	1.2D + 1.5Lm1 + 1.0Wm (120 Deg)	Yes	Y	1	1.2	39	1.2	77	1.5	31	1	69	1						
30	1.2D + 1.5Lm1 + 1.0Wm (150 Deg)	Yes	Y	1	1.2	39	1.2	77	1.5	32	1	70	1						
31	1.2D + 1.5Lm1 + 1.0Wm (180 Deg)	Yes	Y	1	1.2	39	1.2	77	1.5	33	1	71	1						

Load Combinations (Continued)

	Description	Solve	P-Delta	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor
32	1.2D + 1.5Lm1 + 1.0Wm (210 Deg)	Yes	Y	1	1.2	39	1.2	77	1.5	34	1	72	1						
33	1.2D + 1.5Lm1 + 1.0Wm (240 Deg)	Yes	Y	1	1.2	39	1.2	77	1.5	35	1	73	1						
34	1.2D + 1.5Lm1 + 1.0Wm (270 Deg)	Yes	Y	1	1.2	39	1.2	77	1.5	36	1	74	1						
35	1.2D + 1.5Lm1 + 1.0Wm (300 Deg)	Yes	Y	1	1.2	39	1.2	77	1.5	37	1	75	1						
36	1.2D + 1.5Lm1 + 1.0Wm (330 Deg)	Yes	Y	1	1.2	39	1.2	77	1.5	38	1	76	1						
37	1.2D + 1.5Lm2 + 1.0Wm (0 Deg)	Yes	Y	1	1.2	39	1.2	78	1.5	27	1	65	1						
38	1.2D + 1.5Lm2 + 1.0Wm (30 Deg)	Yes	Y	1	1.2	39	1.2	78	1.5	28	1	66	1						
39	1.2D + 1.5Lm2 + 1.0Wm (60 Deg)	Yes	Y	1	1.2	39	1.2	78	1.5	29	1	67	1						
40	1.2D + 1.5Lm2 + 1.0Wm (90 Deg)	Yes	Y	1	1.2	39	1.2	78	1.5	30	1	68	1						
41	1.2D + 1.5Lm2 + 1.0Wm (120 Deg)	Yes	Y	1	1.2	39	1.2	78	1.5	31	1	69	1						
42	1.2D + 1.5Lm2 + 1.0Wm (150 Deg)	Yes	Y	1	1.2	39	1.2	78	1.5	32	1	70	1						
43	1.2D + 1.5Lm2 + 1.0Wm (180 Deg)	Yes	Y	1	1.2	39	1.2	78	1.5	33	1	71	1						
44	1.2D + 1.5Lm2 + 1.0Wm (210 Deg)	Yes	Y	1	1.2	39	1.2	78	1.5	34	1	72	1						
45	1.2D + 1.5Lm2 + 1.0Wm (240 Deg)	Yes	Y	1	1.2	39	1.2	78	1.5	35	1	73	1						
46	1.2D + 1.5Lm2 + 1.0Wm (270 Deg)	Yes	Y	1	1.2	39	1.2	78	1.5	36	1	74	1						
47	1.2D + 1.5Lm2 + 1.0Wm (300 Deg)	Yes	Y	1	1.2	39	1.2	78	1.5	37	1	75	1						
48	1.2D + 1.5Lm2 + 1.0Wm (330 Deg)	Yes	Y	1	1.2	39	1.2	78	1.5	38	1	76	1						
49	1.2D + 1.5Lv1	Yes	Y	1	1.2	39	1.2	79	1.5										
50	1.2D + 1.5Lv2	Yes	Y	1	1.2	39	1.2	80	1.5										
51	1.4D	Yes	Y	1	1.4	39	1.4												
52	1.2D + 1.0Ev + 1.0Eh (0 Deg)	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	1	83		ELZ	1	ELX	
53	1.2D + 1.0Ev + 1.0Eh (30 Deg)	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	0.866	83	0.5	ELZ	0.866	ELX	0.5
54	1.2D + 1.0Ev + 1.0Eh (60 Deg)	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	0.5	83	0.866	ELZ	0.5	ELX	0.866
55	1.2D + 1.0Ev + 1.0Eh (90 Deg)	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82		83	1	ELZ		ELX	1
56	1.2D + 1.0Ev + 1.0Eh (120 Deg)	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	-0.5	83	0.866	ELZ	-0.5	ELX	0.866
57	1.2D + 1.0Ev + 1.0Eh (150 Deg)	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	-0.866	83	0.5	ELZ	-0.866	ELX	0.5
58	1.2D + 1.0Ev + 1.0Eh (180 Deg)	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	-1	83		ELZ	-1	ELX	
59	1.2D + 1.0Ev + 1.0Eh (210 Deg)	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	-0.866	83	-0.5	ELZ	-0.866	ELX	-0.5
60	1.2D + 1.0Ev + 1.0Eh (240 Deg)	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	-0.5	83	-0.866	ELZ	-0.5	ELX	-0.866
61	1.2D + 1.0Ev + 1.0Eh (270 Deg)	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82		83	-1	ELZ		ELX	-1
62	1.2D + 1.0Ev + 1.0Eh (300 Deg)	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	0.5	83	-0.866	ELZ	0.5	ELX	-0.866
63	1.2D + 1.0Ev + 1.0Eh (330 Deg)	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	0.866	83	-0.5	ELZ	0.866	ELX	-0.5
64	0.9D - 1.0Ev + 1.0Eh (0 Deg)	Yes	Y	1	0.9	39	0.9	81	-1	ELY	-1	82	1	83		ELZ	1	ELX	
65	0.9D - 1.0Ev + 1.0Eh (30 Deg)	Yes	Y	1	0.9	39	0.9	81	-1	ELY	-1	82	0.866	83	0.5	ELZ	0.866	ELX	0.5
66	0.9D - 1.0Ev + 1.0Eh (60 Deg)	Yes	Y	1	0.9	39	0.9	81	-1	ELY	-1	82	0.5	83	0.866	ELZ	0.5	ELX	0.866
67	0.9D - 1.0Ev + 1.0Eh (90 Deg)	Yes	Y	1	0.9	39	0.9	81	-1	ELY	-1	82		83	1	ELZ		ELX	1
68	0.9D - 1.0Ev + 1.0Eh (120 Deg)	Yes	Y	1	0.9	39	0.9	81	-1	ELY	-1	82	-0.5	83	0.866	ELZ	-0.5	ELX	0.866
69	0.9D - 1.0Ev + 1.0Eh (150 Deg)	Yes	Y	1	0.9	39	0.9	81	-1	ELY	-1	82	-0.866	83	0.5	ELZ	-0.866	ELX	0.5
70	0.9D - 1.0Ev + 1.0Eh (180 Deg)	Yes	Y	1	0.9	39	0.9	81	-1	ELY	-1	82	-1	83		ELZ	-1	ELX	
71	0.9D - 1.0Ev + 1.0Eh (210 Deg)	Yes	Y	1	0.9	39	0.9	81	-1	ELY	-1	82	-0.866	83	-0.5	ELZ	-0.866	ELX	-0.5
72	0.9D - 1.0Ev + 1.0Eh (240 Deg)	Yes	Y	1	0.9	39	0.9	81	-1	ELY	-1	82	-0.5	83	-0.866	ELZ	-0.5	ELX	-0.866
73	0.9D - 1.0Ev + 1.0Eh (270 Deg)	Yes	Y	1	0.9	39	0.9	81	-1	ELY	-1	82		83	-1	ELZ		ELX	-1
74	0.9D - 1.0Ev + 1.0Eh (300 Deg)	Yes	Y	1	0.9	39	0.9	81	-1	ELY	-1	82	0.5	83	-0.866	ELZ	0.5	ELX	-0.866
75	0.9D - 1.0Ev + 1.0Eh (330 Deg)	Yes	Y	1	0.9	39	0.9	81	-1	ELY	-1	82	0.866	83	-0.5	ELZ	0.866	ELX	-0.5

Envelope Node Reactions

	Node Label		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
1	N200A	max	7615.57	8	4861.168	43	466.836	1	0.006	2	0.024	7	8.915	16
2		min	-7612.52	2	-1282.903	1	-459.879	7	-0.012	44	-0.024	1	2.175	10
3	N202B	max	8072.418	12	2734.651	2	465.444	1	0.006	2	0.024	7	8.906	16
4		min	-7911.713	6	-3101.781	44	-461.241	7	-0.012	44	-0.024	1	2.138	9
5	N204A	max	423.852	11	2654.836	15	7589.197	11	8.846	13	0.023	5	0.006	3
6		min	-429.151	5	-1404.408	9	-7796.925	5	2.195	7	-0.022	11	-0.006	9
7	N206A	max	422.617	11	2615.039	9	6708.564	5	8.816	13	0.023	5	0.006	3
8		min	-430.429	5	-1106.807	3	-6657.535	11	2.213	7	-0.022	11	-0.006	9

Envelope Node Reactions (Continued)

	Node Label		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
9	N209A	max	4139.811	7	3516.93	13	281.703	1	0.008	37	0.014	1	-1.363	4
10		min	-4218.579	1	-2273.878	31	-282.052	7	-0.009	31	-0.014	7	-5.683	22
11	N211A	max	4132.269	1	3641.929	31	282.163	1	0.008	37	0.014	1	-1.301	3
12		min	-4181.678	7	-2199.601	37	-281.594	7	-0.009	31	-0.014	7	-5.517	22
13	N214A	max	373.246	9	4014.621	34	5680.961	9	-1.576	1	0.02	9	0.015	40
14		min	-375.904	3	-4232.511	40	-5657.311	3	-7.504	19	-0.02	3	-0.009	34
15	N216A	max	374.188	9	5938.751	41	6814.488	3	-1.643	1	0.02	9	0.015	40
16		min	-374.95	3	-2311.791	35	-6692.77	9	-7.748	19	-0.02	3	-0.009	34
17	Totals:	max	5277.151	10	13245.494	16	6101.451	1						
18		min	-5276.948	4	3541.211	72	-6101.639	7						

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

	Member	Shape	Code Check	Loc[ft]	LC	Shear Check	Loc[ft]	Dir	LC	phi*Pnc [lb]	phi*Pnt [lb]	phi*Mn y-y [k-ft]	phi*Mn z-z [k-ft]	Cb	Eqn
1	SO2	HSS5X3X8	0.591	0	14	0.067	0	y	43	182394.752	249228	21.045	30.464	2.109	H1-1b
2	SO1	HSS5X3X8	0.582	0	24	0.054	0	y	15	182394.752	249228	21.045	30.464	2.049	H1-1b
3	SO3	HSS5X3X8	0.503	0	20	0.092	3.617	y	41	182394.752	249228	21.045	30.464	2.066	H1-1b
4	M124	PL3/8X8.5	0.5	0.083	14	0.094	0	y	44	102812.102	103275	0.807	18.288	1.009	H1-1b
5	M123	PL3/8X8.5	0.499	0.083	18	0.137	0.083	y	43	102812.102	103275	0.807	18.288	1.01	H1-1b
6	M111A	PL3/8X8.5	0.492	0.083	24	0.072	0.083	y	3	102812.102	103275	0.807	18.288	1.008	H1-1b
7	M112A	PL3/8X8.5	0.49	0.083	24	0.073	0.083	y	9	102812.102	103275	0.807	18.288	1.007	H1-1b
8	M120A	PL3/8X8.5	0.431	0.083	20	0.168	0.083	y	41	102812.102	103275	0.807	18.288	1.019	H1-1b
9	M119A	PL3/8X8.5	0.421	0	20	0.127	0	y	40	102812.102	103275	0.807	18.288	1.005	H1-1b
10	MP1C	PIPE 2.0	0.366	5	17	0.184	5		1	14916.096	32130	1.872	1.872	1	H1-1b
11	SO4	HSS5X3X8	0.364	0	21	0.056	0	y	13	182394.752	249228	21.045	30.464	2.188	H1-1b
12	MP2C	PIPE 2.0	0.361	5	7	0.095	5		1	14916.096	32130	1.872	1.872	1	H1-1b
13	MP4D	PIPE 2.0	0.356	5	2	0.105	2.917		3	14916.096	32130	1.872	1.872	1	H1-1b
14	MP3D	PIPE 2.0	0.354	5	1	0.085	5		4	14916.096	32130	1.872	1.872	1	H1-1b
15	MP1D	PIPE 2.0	0.337	5	7	0.108	2.25		4	14916.096	32130	1.872	1.872	1	H1-1b
16	MP2D	PIPE 2.0	0.322	5	7	0.083	2.25		16	14916.096	32130	1.872	1.872	1	H1-1b
17	MP3A	PIPE 2.0	0.316	5	3	0.1	2.25		19	14916.096	32130	1.872	1.872	1	H1-1b
18	M115A	PL3/8X8.5	0.313	0.083	21	0.096	0.083	y	13	102812.102	103275	0.807	18.288	1.019	H1-1b
19	M116A	PL3/8X8.5	0.306	0	21	0.102	0.083	y	31	102812.102	103275	0.807	18.288	1.003	H1-1b
20	MP2B	PIPE 2.0	0.305	5	1	0.058	5		7	14916.096	32130	1.872	1.872	1	H1-1b
21	MP3C	PIPE 2.0	0.296	5	5	0.137	2.25		13	14916.096	32130	1.872	1.872	1	H1-1b
22	MP1B	PIPE 2.0	0.295	5	1	0.058	5		16	14916.096	32130	1.872	1.872	1	H1-1b
23	MP4A	PIPE 2.0	0.293	5	3	0.134	2.25		19	14916.096	32130	1.872	1.872	1	H1-1b
24	MP1A	PIPE 2.0	0.288	5	9	0.111	5		7	14916.096	32130	1.872	1.872	1	H1-1b
25	CBA2	PIPE 2.0	0.285	0	16	0.088	10.94		24	8218.835	32130	1.872	1.872	1	H1-1b
26	MP2A	PIPE 2.0	0.282	5	3	0.081	2.25		19	14916.096	32130	1.872	1.872	1	H1-1b
27	CBD2	PIPE 2.0	0.28	0	1	0.041	0		1	8218.835	32130	1.872	1.872	1	H1-1b
28	MP3B	PIPE 2.0	0.28	5	1	0.051	5		1	14916.096	32130	1.872	1.872	1	H1-1b
29	MP4C	PIPE 2.0	0.278	5	9	0.127	2.917		12	14916.096	32130	1.872	1.872	1	H1-1b
30	CBB2	PIPE 2.0	0.277	10.94	13	0.06	10.94		14	8218.835	32130	1.872	1.872	1	H1-1b
31	MP4B	PIPE 2.0	0.261	5	7	0.096	5		1	14916.096	32130	1.872	1.872	1	H1-1b
32	MP5C	PIPE 2.0	0.237	4	1	0.063	4		4	20866.733	32130	1.872	1.872	1	H1-1b
33	MP5D	PIPE 2.0	0.235	4	4	0.063	4		1	20866.733	32130	1.872	1.872	1	H1-1b
34	MP5A	PIPE 2.0	0.234	4	7	0.063	4		5	20866.733	32130	1.872	1.872	1	H1-1b
35	CBC2	PIPE 2.0	0.211	10.94	16	0.099	0		33	8218.835	32130	1.872	1.872	1	H1-1b
36	CP6	L5X3X4	0.193	0	1	0.105	0	z	21	51206.604	62856	1.939	6.809	1.453	H2-1
37	BR16	STIFFENER	0.189	0	3	0.041	0	z	2	48451.05	70875	2.546	4.693	1	H1-1b
38	CP5	L5X3X4	0.184	1.457	13	0.061	1.457	z	42	51206.604	62856	1.939	6.809	1.021	H2-1
39	BR14	STIFFENER	0.175	1.61	9	0.036	0	z	3	48451.05	70875	2.546	7.508	1	H1-1b
40	BR15	STIFFENER	0.174	1.61	3	0.039	0	z	3	48451.05	70875	2.546	4.693	1	H1-1b
41	BR20	STIFFENER	0.174	0	2	0.04	0	z	2	48451.05	70875	2.546	4.693	1	H1-1b
42	BR44	STIFFENER	0.172	0	5	0.037	0	z	6	48451.05	70875	2.546	4.693	1	H1-1b

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

	Member	Shape	Code Check	Loc[ft]	LC	Shear Check	Loc[ft]	Dir	LC	phi*Pnc [lb]	phi*Pnt [lb]	phi*Mn y-y [k-ft]	phi*Mn z-z [k-ft]	Cb	Eqn
43	BR21	STIFFENER	0.169	1.61	7	0.031	0	z	12	48451.05	70875	2.546	4.693	1	H1-1b
44	BR13	STIFFENER	0.166	1.61	9	0.03	0	z	3	48451.05	70875	2.546	4.693	1	H1-1b
45	BR33	STIFFENER	0.166	1.61	2	0.029	0	z	2	48451.05	70875	2.546	4.693	1	H1-1b
46	BR36	STIFFENER	0.165	1.61	2	0.035	0	z	8	48451.05	70875	2.546	4.693	1	H1-1b
47	BR17	STIFFENER	0.164	1.61	8	0.03	0	z	2	48451.05	70875	2.546	4.693	1	H1-1b
48	BR34	STIFFENER	0.163	1.61	2	0.032	0	z	8	48451.05	70875	2.546	7.508	1	H1-1b
49	BR18	STIFFENER	0.162	1.61	2	0.035	0	z	2	48451.05	70875	2.546	4.693	1	H1-1b
50	BR22	STIFFENER	0.161	1.61	6	0.035	0	z	12	48451.05	70875	2.546	7.508	1	H1-1b
51	BR19	STIFFENER	0.161	1.61	2	0.038	0	z	2	48451.05	70875	2.546	4.693	1	H1-1b
52	BR32	STIFFENER	0.16	1.61	9	0.034	0	z	2	48451.05	70875	2.546	4.693	1	H1-1b
53	BR42	STIFFENER	0.16	1.61	11	0.031	0	z	5	48451.05	70875	2.546	4.693	1	H1-1b
54	BR43	STIFFENER	0.158	1.61	5	0.034	0	z	5	48451.05	70875	2.546	4.693	1	H1-1b
55	BR35	STIFFENER	0.156	1.61	8	0.034	0	z	8	48451.05	70875	2.546	4.693	1	H1-1b
56	BR30	STIFFENER	0.155	1.61	3	0.03	0	z	3	48451.05	70875	2.546	4.693	1	H1-1b
57	BR37	STIFFENER	0.154	1.61	1	0.027	0	z	6	48451.05	70875	2.546	4.693	1	H1-1b
58	BR23	STIFFENER	0.154	1.61	6	0.036	0	z	12	48451.05	70875	2.546	7.508	1	H1-1b
59	CP8	L5X3X4	0.152	1.457	16	0.12	0	z	38	51206.604	62856	1.939	6.809	1.094	H2-1
60	BR24	STIFFENER	0.152	0	12	0.035	0	z	12	48451.05	70875	2.546	4.693	1	H1-1b
61	BR28	STIFFENER	0.15	1.61	11	0.032	0	z	12	48451.05	70875	2.546	4.693	1	H1-1b
62	BR41	STIFFENER	0.149	1.61	11	0.026	0	z	5	48451.05	70875	2.546	4.693	1	H1-1b
63	BR38	STIFFENER	0.146	1.61	1	0.031	0	z	6	48451.05	70875	2.546	7.508	1	H1-1b
64	BR31	STIFFENER	0.144	1.61	3	0.031	0	z	2	48451.05	70875	2.546	7.508	1	H1-1b
65	BR29	STIFFENER	0.142	1.61	3	0.027	0	z	3	48451.05	70875	2.546	4.693	1	H1-1b
66	BR40	STIFFENER	0.14	0	6	0.034	0	z	6	48451.05	70875	2.546	4.693	1	H1-1b
67	BR26	STIFFENER	0.137	1.61	5	0.026	0	z	11	48451.05	70875	2.546	4.693	1	H1-1b
68	CP7	L5X3X4	0.136	1.457	7	0.133	1.457	z	36	51206.604	62856	1.939	6.809	1.254	H2-1
69	BR39	STIFFENER	0.134	1.61	6	0.033	0	z	6	48451.05	70875	2.546	4.693	1	H1-1b
70	BR25	STIFFENER	0.134	1.61	4	0.022	0	z	11	48451.05	70875	2.546	4.693	1	H1-1b
71	BR27	STIFFENER	0.128	1.61	11	0.027	0	z	12	48451.05	70875	2.546	4.693	1	H1-1b
72	CP1	PL5.5X1/4	0.038	1.315	14	0.193	0.658	y	18	6494.641	44550	0.232	3.726	1.045	H1-1b*
73	CP4	PL5.5X1/4	0.036	1.315	17	0.245	0.658	y	14	6494.641	44550	0.232	4.298	1.205	H1-1b*
74	CP2	PL5.5X1/4	0.034	0.658	12	0.187	0.658	y	20	6494.641	44550	0.232	3.82	1.072	H1-1b
75	CP3	PL5.5X1/4	0.034	0.658	8	0.224	0.658	y	36	6494.641	44550	0.232	4.024	1.129	H1-1b
76	BR10	PL5.5X1/4	0.027	1.619	2	0.035	0	y	21	4284.598	44550	0.232	3.732	1.225	H1-1b
77	BR11	PL5.5X1/4	0.025	1.619	5	0.048	0	y	36	4284.598	44550	0.232	3.283	1.078	H1-1b
78	BR12	PL5.5X1/4	0.024	1.619	9	0.046	0	y	38	4284.598	44550	0.232	3.589	1.178	H1-1b
79	BR9	PL5.5X1/4	0.023	1.619	6	0.019	0	y	6	4284.598	44550	0.232	3.353	1.101	H1-1b

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

	Member	Shape	Code Check	Loc[ft]	LC	Shear Check	Loc[ft]	Dir	LC	phi*Pn[lb]	phi*Tn[lb]	phi*Mnyy[k-ft]	phi*Mnzz[k-ft]	phi*Vny[lb]	phi*Vnz[lb]	Cb	Eqn
1	BR1	OUTERFACE	0.315	0	9	0.072	4.279	z	15	80988.558	87577.2	3.15	12.416	22761.81	25650	1.753	H1.2-1
2	BR3	INNERFACE	0.276	4.89	8	0.074	0.611	z	14	73279.874	79476.779	2.224	10.702	22764.375	20520	1.401	H1.2-1
3	BR5	INNERFACE	0.231	4.89	17	0.065	0.611	y	21	73279.874	79476.779	2.224	10.702	22764.375	20520	1.193	H1.2-1
4	BR7	INNERFACE	0.222	0	12	0.061	4.279	z	18	73279.874	79476.779	2.224	10.702	22764.375	20520	1.633	H1.2-1
5	CBB1	OUTERFACE	0.306	0	3	0.228	4.294	y	24	80988.558	87577.2	3.15	12.416	22761.81	25650	1.638	H1.2-1
6	CBA1	OUTERFACE	0.351	5.57	1	0.244	4.352	z	7	80988.558	87577.2	3.15	12.416	22761.81	25650	1.182	H1.2-1
7	CBD1	OUTERFACE	0.312	4.352	16	0.297	4.352	y	16	82403.928	87577.2	3.151	12.418	22761.81	25650	1.144	H2-1
8	CBC1	OUTERFACE	0.329	0	7	0.253	4.294	y	14	80988.558	87577.2	3.15	12.416	22761.81	25650	1.619	H1.2-1
9	M97A	INNERFACE	0.311	4.89	6	0.054	0.611	z	24	73279.874	79476.779	2.224	10.702	22764.375	20520	1.35	H1.2-1
10	M98	INNERFACE	0.291	0	2	0.055	4.279	z	20	73279.874	79476.779	2.224	10.702	22764.375	20520	1.625	H1.2-1
11	M99A	OUTERFACE	0.36	5.57	1	0.193	4.352	z	7	80988.558	87577.2	3.15	12.416	22761.81	25650	1.205	H1.2-1
12	M100A	OUTERFACE	0.309	0	7	0.216	1.218	z	1	80988.558	87577.2	3.15	12.416	22761.81	25650	1.613	H1.2-1
13	M101A	OUTERFACE	0.306	0	11	0.07	4.279	y	15	80988.558	87577.2	3.15	12.416	22761.81	25650	1.72	H1.2-1
14	M102A	INNERFACE	0.261	4.89	2	0.067	0.611	y	22	73279.874	79476.779	2.224	10.702	22764.375	20520	1.191	H1.2-1
15	M103	OUTERFACE	0.3	0	4	0.225	1.218	z	10	80988.558	87577.2	3.15	12.416	22761.81	25650	1.594	H1.2-1

Envelope AISI S100-16: LRFD Member Cold Formed Steel Code Checks (Continued)

	Member	Shape	Code Check	Loc[ft]	LC	Shear Check	Loc[ft]	Dir	LC	phi*Pn[lb]	phi*Tn[lb]	phi*Mnyy[k-ft]	phi*Mnzz[k-ft]	phi*Vny[lb]	phi*Vnz[lb]	Cb	Eqn
16	M104A	OUTERFACE	0.293	4.352	16	0.287	4.352	y	16	82403.928	87577.2	3.151	12.418	22761.81	25650	1.19	H2-1

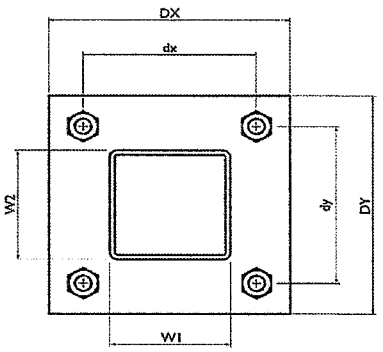
VzW SMART Tool© Vendor

Client:	VERIZON WIRELESS	Date:	11/10/2025
Site Name:	DocPark_MCR__16TDN272800		
MDG #:	5000974975		
Fuze ID #:	17458794	Page:	1

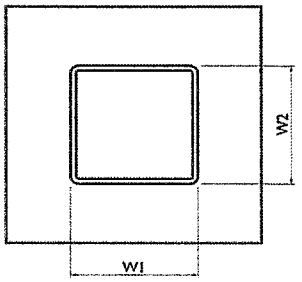
Version 2.10

I. Mount-to-Tower Connection Check

Custom Orientation Required	No
Tower Connection Bolt Checks	Yes
Bolt Orientation	Parallel
Bolt Quantity per Reaction:	4
d_x (in) *(Delta X of typ. bolt config. sketch)* :	7
d_y (in) *(Delta Y of typ. bolt config. sketch)* :	7
Bolt Type:	A325N
Bolt Diameter (in):	0.75
Required Tensile Strength / bolt (kips):	8.0
Required Shear Strength / bolt (kips):	0.9
Tensile Capacity / bolt (kips):	29.8
Shear Capacity / bolt (kips):	17.9
Bolt Overall Utilization:	**26.8%**



Tower Connection Baseplate Checks	Yes
Connecting Standoff Member Shape:	Rect Tube
Weld Stiffener Configuration:	No Stiffeners
Plate Width, D_x (in):	10
Plate Height, D_y (in):	10
W1(in):	3.75
W2 (in):	5
Member Thickness (in):	0.3125
Stiffener location a_1 (in):	
Stiffener location b_1 (in):	
Stiffener location a_2 (in):	
Stiffener location b_2 (in):	
F_y (ksi, plate):	36
Plate Thickness (in):	0.75
Length of Yield Line, L_y (in):	7.58
Bolt Eccentricity, e (in):	2.15
M_u (kip-in):	17.19
Phi*M_n (kip-in):	34.53
Plate Bending Utilization:	**49.8%**



VzW SMART Tool© Vendor

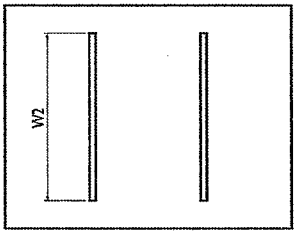
Client:	VERIZON WIRELESS	Date:	11/10/2025
Site Name:	DocPark_MCR__16TDN272800		
MDG #:	5000974975		
Fuze ID #:	17458794	Page:	2

Version 2.10

Tower Connection Weld Checks

	Yes

Weld Shape:	Two Vertical Fillet Welds
Weld Stiffener Configuration:	None
Stiffener Notch Length, n (in):	
Weld Size (1/16 in):	5
W1 (in):	3.75
W2 (in):	8.5
Weld Total Length (in):	17.00
Z_x (in^3/in):	24.08
Z_y (in^3/in):	31.88
J_p (in^4/in):	162.12
c_x (in)	1.875
c_y (in)	4.25
Required combined strength (kip/in):	3.02
Weld Capacity (kip/in):	6.96
Weld Utilization:	**43.3%**

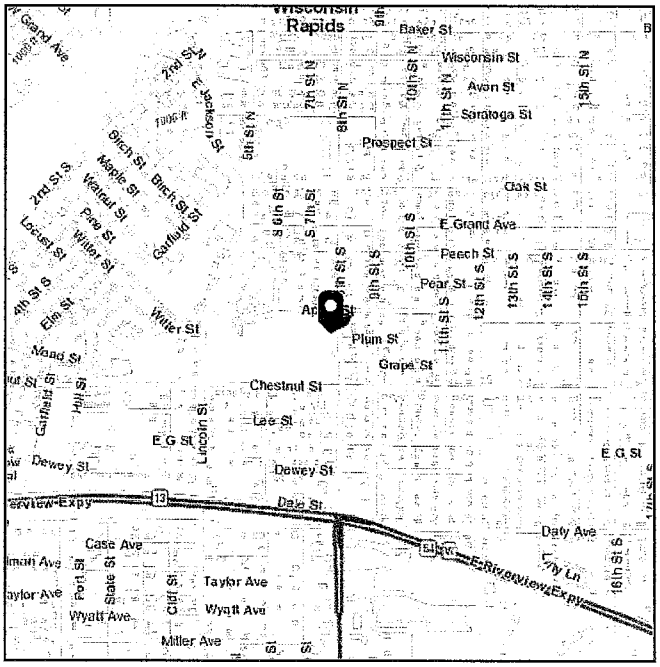


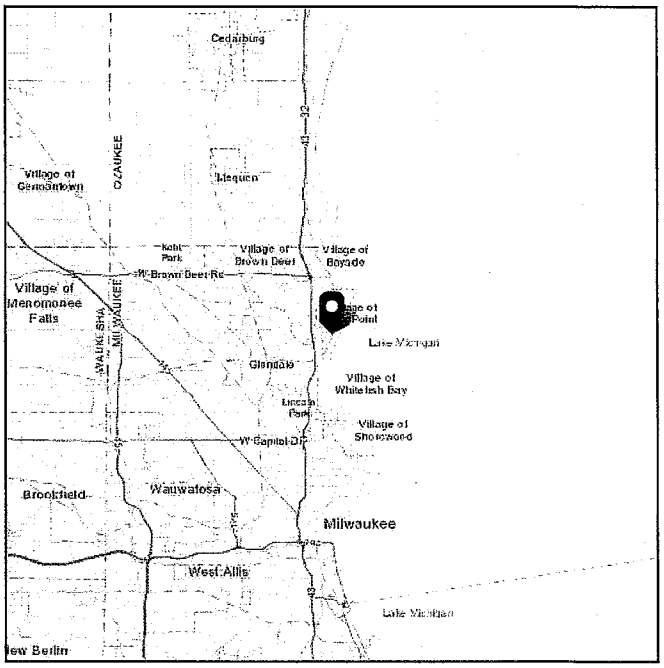
ASCE Hazards Report

Address:
No Address at This Location

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

Latitude: 43.146013
Longitude: -87.901361
Elevation: 700.6797113620388 ft (NAVD 88)





Wind

Results:

Wind Speed	106 Vmph
10-year MRI	73 Vmph
25-year MRI	80 Vmph
50-year MRI	85 Vmph
100-year MRI	91 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: Thu Sep 11 2025

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 not in a hurricane-prone region as defined in ASCE/SEI 7-16 Section 26.2.

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AMERICAN SOCIETY OF CIVIL ENGINEERS

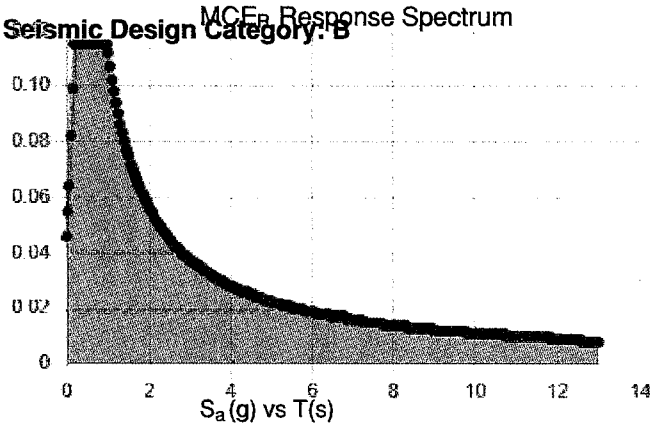
Seismic

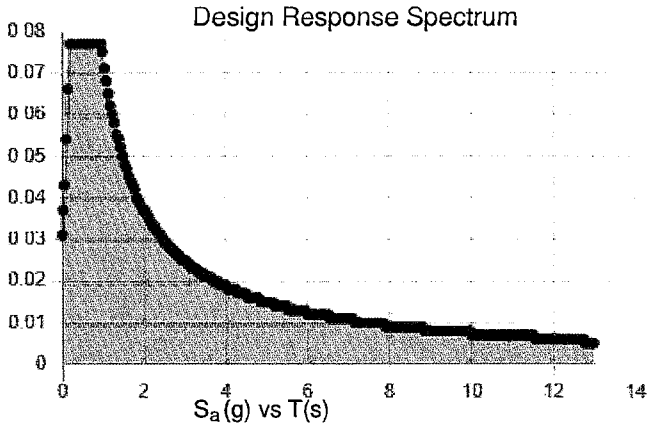
Site Soil Class: D - Default (see Section 11.4.3)

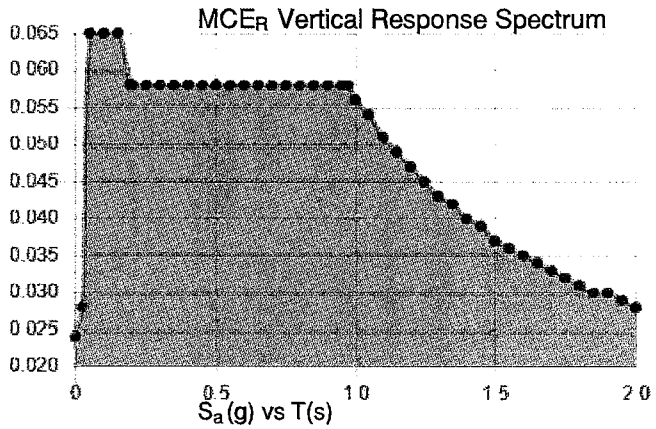
Results:

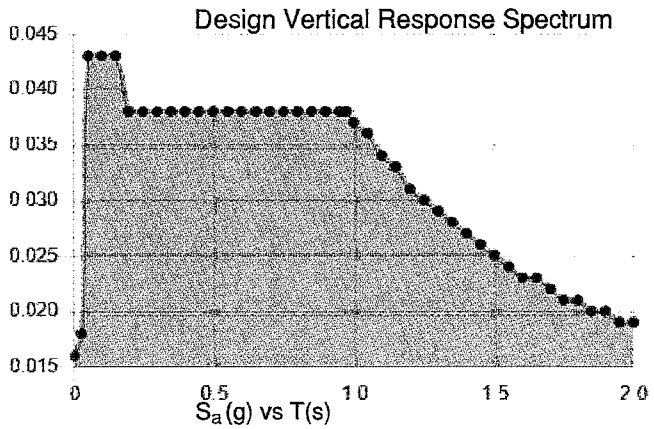
S_S :	0.072	S_{D1} :	0.075
S_1 :	0.047	T_L :	12
F_a :	1.6	PGA :	0.035
F_v :	2.4	PGA_M :	0.056
S_{MS} :	0.115	F_{PGA} :	1.6
S_{M1} :	0.112	I_e :	1
S_{DS} :	0.077	C_v :	0.7

Seismic Design Category: B









Data Accessed: **Thu Sep 11 2025**

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.

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Ice

Results:

Ice Thickness:	1.50 in.
Concurrent Temperature:	-5 F
Gust Speed	40 mph
Data Source:	Standard ASCE/SEI 7-16, Figs. 10-2 through 10-8
Date Accessed:	Thu Sep 11 2025

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.

CELLCO PARTNERSHIP
d/b/a VERIZON WIRELESS

VZW SITE NAME
DOCPARK_MCR

MDG LOCATION #
5000974975

FUZE PROJECT #
17458794

119' MONOPOLE

ADDRESS
7200 N SANTA MONICA BLVD
VILLAGE OF FOX POINT, WI
53217

CELLCO PARTNERSHIP
d/b/a VERIZON WIRELESS

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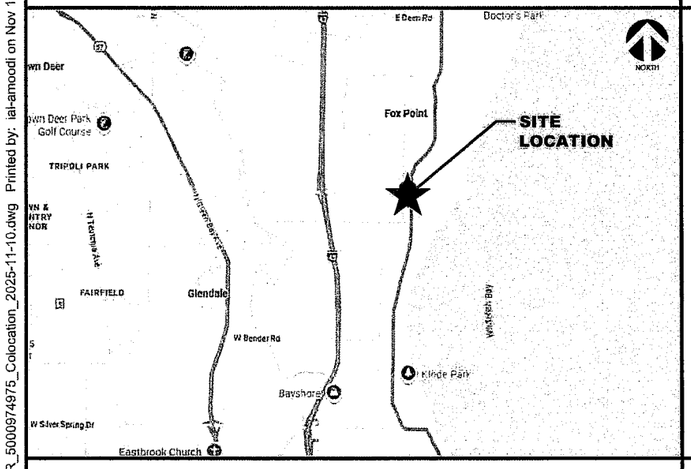
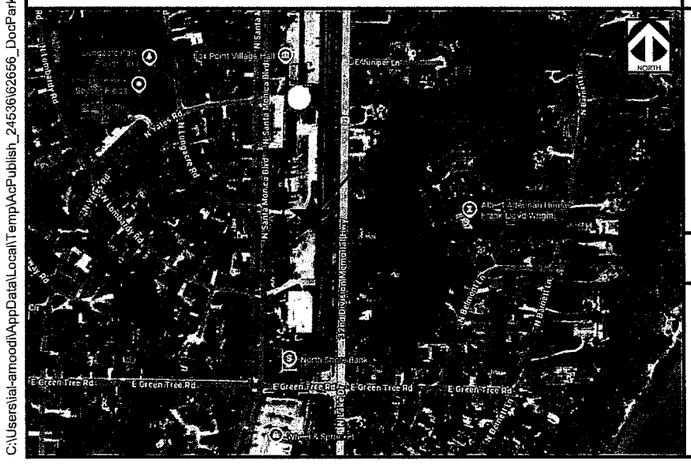
Certification # Seals

VICINITY MAP:



AERIAL MAP:



PROJECT INFORMATION:

SITE ADDRESS:
7200 N SANTA MONICA BLVD
VILLAGE OF FOX POINT, WI 53217
MILWAUKEE COUNTY

SITE COORDINATES:
LATITUDE: 43° 08' 45.4" N (43.145944°N)
LONGITUDE: 87° 54' 4.9" W (-87.901361°W)

PARCEL OWNER:
VILLAGE OF FOX POINT

LESSOR:
HARMONI TOWERS

LESSEE:
VERIZON WIRELESS
1701 GOLF ROAD, TOWER 2, SUITE 400
ROLLING MEADOWS, IL 60008
CONTACT: OCTAVIO HERRERA
EMAIL: octavio.herrera@Verizonwireless.com
PHONE: (847) 619-4142

A&E FIRM
RAMAKER
1955 ATWOOD AVE, SUITE 202
MADISON, WI 53704
CONTACT: JOSH OPSETH
EMAIL: jopseth@ramaker.com
PHONE: (608) 643-4100

FIBER PROVIDER
XXXXXX
PHONE: (800) XXX-XXXX

ELECTRIC PROVIDER
XXXXXX
PHONE: (800) XXX-XXXX

SCOPE OF WORK:

- (12) PROPOSED PANEL ANTENNAS WITH (1) PROPOSED ANTENNA PLATFORM
- (3) PROPOSED TOP OF TOWER RRHs
- (3) PROPOSED TOP OF TOWER OVP BOX WITH (3) ALARMS
- PROPOSED 4'X11' EQUIPMENT CONCRETE PAD WITH ICE BRIDGE CANOPY
- (2) PROPOSED EQUIPMENT CABINETS
- PROPOSED 4'-0"X10' GENERATOR CONCRETE PAD
- (1) PROPOSED GENERATOR
- (1) PROPOSED 6' UTILITY STAND WITH ICE BRIDGE CANOPY
- (3) PROPOSED OVP BOX AT 6' UTILITY STAND
- (1) PROPOSED ILC CABINET
- (1) PROPOSED CHARLES CUBE
- (1) PROPOSED CONTACT ALARM BOX
- (3) PROPOSED 1.58" HYBRID CABLES WITH ICE BRIDGE
- INSTALL POWER AND FIBER FROM EXISTING SOURCES

CODE COMPLIANCE:

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

1. 2021 INTERNATIONAL BUILDING CODE
2. 2021 INTERNATIONAL MECHANICAL CODE
3. ANSI/TIA-222 STRUCTURAL STANDARD
4. NFPA 780 - LIGHTNING PROTECTION CODE
5. 2017 NATIONAL ELECTRICAL CODE

Know what's below. Call before you dig. www.call811.com

APPROVALS:

CONSTRUCTION MANAGER:	
LANDLORD:	

SHEET INDEX

SHEET NUMBER	SHEET DESCRIPTION
T-1	TITLE SHEET
C-1	OVERALL SITE PLAN
C-2	ENLARGED SITE PLAN
C-3	GENERAL NOTES
B-1	EQUIPMENT PAD PLAN & NOTES
B-2	EQUIPMENT PAD ELEVATIONS
B-3	EQUIPMENT FOUNDATION
B-4	GENERATOR FOUNDATION
ANT-1	SITE ELEVATION
ANT-2	ANTENNA INFORMATION
ANT-2A	ANTENNA INFORMATION
ANT-3	ANTENNA INFORMATION
ANT-3A	ANTENNA INFORMATION
ANT-3B	ANTENNA SECTOR FRAME
ANT-4	SITE DETAILS
E-1	UTILITY ROUTING PLAN
E-1A	UTILITY RISER DIAGRAMS
E-1B	GENERATOR UTILITY ROUTING PLAN
E-1C	GENERATOR SINGLE LINE DIAGRAM & ALARM WIRING
E-1D	VAULT SPEC. SHEET
E-1E	FIBER CABINET SPEC SHEET
E-2	ELECTRICAL DETAILS
E-3	ELECTRICAL AND GROUNDING NOTES
E-4	SITE GROUNDING PLAN
E-5	GROUNDING DETAILS
E-6	GROUNDING & ELECTRICAL DETAILS
EX-1 & 2	GENERATOR CUT-SHEET
EX-3	INTEGRATED LOAD CENTER

ATTACHMENTS

1 OF 3, 2 OF 3, & 3 OF 3	SURVEY

MARK	DATE	DESCRIPTION
A	11/13/25	PRELIM CDs ISSUED

ISSUE PHASE: PRELIMINARY
DATE ISSUED: 11/10/2025

PROJECT TITLE:
DOCPARK_MCR
5000974975

PROJECT INFORMATION:
7200 N SANTA MONICA BLVD
VILLAGE OF FOX POINT, WI 53217
MILWAUKEE COUNTY

SHEET TITLE:
TITLE SHEET

SCALE: NONE

PROJECT NUMBER: 62656
SHEET NUMBER: T-1

DRAWN BY: ISA CHECKED BY: MJR

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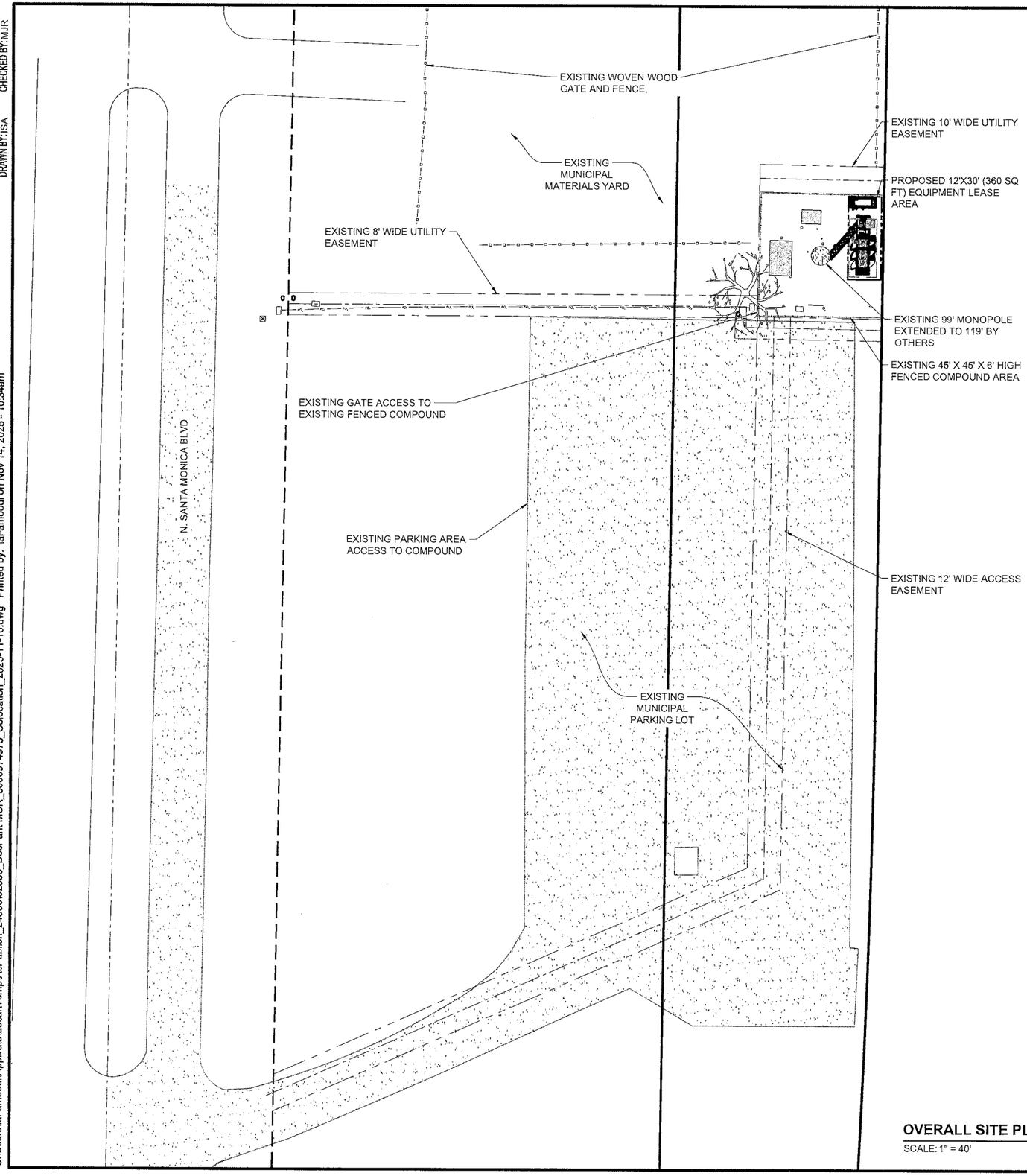

OVERALL SITE PLAN (1)
SCALE: 1" = 40'

N. LAKE DRIVE

NORTH

CELLCO PARTNERSHIP
d/b/a VERIZON WIRELESS

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(608) 643-4100 www.ramaker.com

Certification # Seal:

MARK	DATE	DESCRIPTION
A	11/13/25	PRELIM CDs ISSUED

ISSUE PHASE: PRELIMINARY
DATE ISSUED: 11/10/2025

PROJECT TITLE:
DOCPARK_MCR
5000974975

PROJECT INFORMATION:
7200 N SANTA MONICA BLVD
VILLAGE OF FOX POINT, WI 53217
MILWAUKEE COUNTY

SHEET TITLE:
OVERALL SITE PLAN

0 20' 40' 80'
11" x 17" - 1" = 40'
22" x 34" - 1" = 20'

PROJECT NUMBER: 62656
SHEET NUMBER: C-1

DRAWN BY: ISA CHECKED BY: MJR

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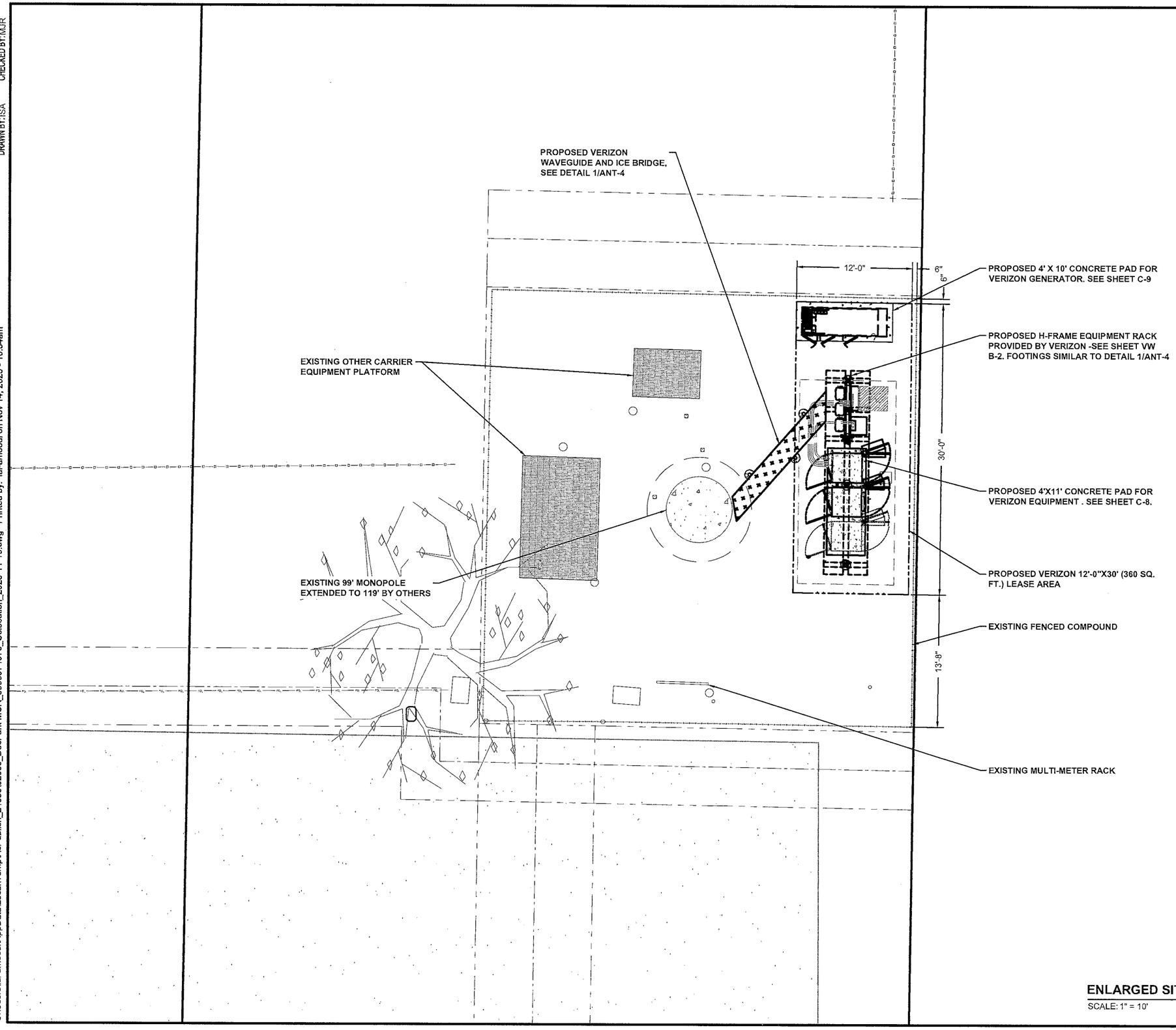

NORTH

ENLARGED SITE PLAN
SCALE: 1" = 10'

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Certification # Seal:

MARK	DATE	DESCRIPTION
A	11/13/25	PRELIM CDs ISSUED

ISSUE PHASE: PRELIMINARY
DATE ISSUED: 11/10/2025

PROJECT TITLE:
DOCPARK_MCR
5000974975

PROJECT INFORMATION:
7200 N SANTA MONICA BLVD
VILLAGE OF FOX POINT, WI 53217
MILWAUKEE COUNTY

SHEET TITLE:
ENLARGED SITE PLAN

0 5' 10' 20'
11" x 17" - 1" = 10'
22" x 34" - 1" = 5'

PROJECT NUMBER: 62656
SHEET NUMBER: C-2

SITE WORK GENERAL NOTES:

1. THE SUBCONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
2. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY CONTRACTOR. EXTREME CAUTION SHOULD BE USED BY THE SUBCONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. SUBCONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION B) CONFINED SPACE C) ELECTRICAL SAFETY D) TRENCHING & EXCAVATION.
3. ALL SITE WORK SHALL BE AS INDICATED ON THE DRAWINGS AND PROJECT SPECIFICATIONS.
4. IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
5. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF CONTRACTOR, OWNER AND/OR LOCAL UTILITIES.
6. SUBCONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION
7. THE SUBCONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATION FOR SITE SIGNAGE.
8. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE BTS EQUIPMENT AND TOWER AREAS.
9. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
10. THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
11. THE AREAS OF THE OWNERS PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION AS SPECIFIED IN THE PROJECT SPECIFICATIONS.
12. SUBCONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.
13. ALL REMOVED SPOILS TO BE UTILIZED FOR BACKFILL SHALL BE PROTECTED FROM FREEZE

STRUCTURAL STEEL NOTES:

1. ALL STEEL WORK SHALL BE PAINTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND IN ACCORDANCE WITH ASTM A36 UNLESS OTHERWISE NOTED.
2. ALL WELDING SHALL BE PERFORMED USING E70XX ELECTRODES AND WELDING SHALL CONFORM TO AISC. WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC "MANUAL OF STEEL CONSTRUCTION". PAINTED SURFACES SHALL BE TOUCHED UP.
3. BOLTED CONNECTIONS SHALL BE ASTM A325 BEARING TYPE (3/4"Ø) CONNECTIONS AND SHALL HAVE MINIMUM OF TWO BOLTS UNLESS NOTED OTHERWISE.
4. NON-STRUCTURAL CONNECTIONS FOR STEEL GRATING MAY USE 5/8" DIA. ASTM A 307 BOLTS UNLESS NOTED OTHERWISE.
5. INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHOR, SHALL BE PER MANUFACTURER'S WRITTEN RECOMMENDED PROCEDURE. THE ANCHOR BOLT, DOWEL OR ROD SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBAR SHALL BE CUT WITHOUT PRIOR CONTRACTOR APPROVAL WHEN DRILLING HOLES IN CONCRETE. SPECIAL INSPECTIONS, REQUIRED BY GOVERNING CODES, SHALL BE PERFORMED IN ORDER TO MAINTAIN MANUFACTURER'S MAXIMUM ALLOWABLE LOADS.

CONCRETE AND REINFORCING STEEL NOTES:

1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 336, ASTM A184, ASTM A185 AND THE DESIGN AND CONSTRUCTION SPECIFICATION FOR CAST-IN-PLACE CONCRETE.
2. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS, UNLESS NOTED OTHERWISE. SLAB FOUNDATION DESIGN ASSUMING ALLOWABLE SOIL BEARING PRESSURE OF 2000 PSF.
3. REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 60, DEFORMED UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 WELDED STEEL WIRE FABRIC UNLESS NOTED OTHERWISE. SPLICES SHALL BE CLASS "B" AND ALL HOOKS SHALL BE STANDARD, UNO.
4. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:

   CONCRETE CAST AGAINST EARTH.....3 IN.
   CONCRETE EXPOSED TO EARTH OR WEATHER:
   #6 AND LARGER .....2 IN.
   #5 AND SMALLER & WWF .....1 1/2 IN.

   CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR NOT CAST AGAINST THE GROUND:
   SLAB AND WALL .....3/4 IN.
   BEAMS AND COLUMNS .....1 1/2 IN.

5. A CHAMFER 3/4" SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNO, IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.
6. INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHOR, SHALL BE PER MANUFACTURER'S WRITTEN RECOMMENDED PROCEDURE. THE ANCHOR BOLT, DOWEL OR ROD SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBAR SHALL BE CUT WITHOUT PRIOR ENGINEERING APPROVAL WHEN DRILLING HOLES ON CONCRETE. EXPANSION BOLTS SHALL BE PROVIDED BY RAMSET/REDHEAD OR APPROVED EQUAL.
7. COLD WEATHER CONCRETING (BELOW 40°). SHALL COMPLY WITH ACI 301. CONTRACTOR SHALL NEVER PLACE CONCRETE ON FROZEN SUBGRADE AND REBAR TEMPERATURE SHALL NEVER BE BELLOW 32°F DURING CONCRETE PLACEMENT. STEEL TEMPERATURE CAN BE RAISED BY BATHING IT IN WATER UNTIL ICE DOES NOT FORM ON BARS. CONCRETE MATERIALS MAY BE HEATED, BUT MIX TEMPERATURE SHALL BE BETWEEN 50°F & 70°F AT TIME OF PLACING. ALL CONCRETE EXPOSED TO FREEZING DURING PLACEMENT OR DURING SERVICE LIFE SHALL BE AIR ENTRAINED. INSULATED BLANKETS (OR APPROVED EQUAL METHOD) SHALL BE PLACED OVER FRESHLY FINISHED CONCRETE TO ALLOW PROPER CURING/COMBAT FREEZING. THE CONCRETE TEMP. SHOULD BE MAINTAINED AT 50°F FOR FIVE (5) DAYS OR 70° FOR THREE (3) DAYS. CONCRETE SHALL NOT BE ALLOWED TO FREEZE BEFORE IT HAS REACHED A STRENGTH OF AT LEAST 500 PSI

GENERAL NOTES

1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:
   CONTRACTOR - TO BE DETERMINED
   SUBCONTRACTOR - GENERAL CONTRACTOR (CONSTRUCTION)
   OWNER - CENTRAL STATES TOWERS
   OEM - ORIGINAL EQUIPMENT MANUFACTURE
2. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING SUBCONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CONTRACTOR.
3. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. SUBCONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK.
   ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
4. DRAWINGS PROVIDED HERE ARE NOT TO SCALE AND ARE INTENDED TO SHOW OUTLINE ONLY.
5. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
6. THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
7. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE CONTRACTOR.
8. SUBCONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER AND T1 CABLES, GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TELCO PLAN DRAWING.
9. THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.
10. SUBCONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
11. SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION.
12. CONSTRUCTION SHALL COMPLY WITH "GENERAL CONSTRUCTION SERVICES FOR CONSTRUCTION OF CINGULAR GSM SITES.'

CELLCO PARTNERSHIP
d/b/a VERIZON WIRELESS

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(608) 643-4100 www.ramaker.com

Certification # Seal:

MARK	DATE	DESCRIPTION
A	11/13/25	PRELIM CDs ISSUED

ISSUE PHASE: PRELIMINARY DATE ISSUED: 11/10/2025

PROJECT TITLE:
DOCPARK_MCR
5000974975

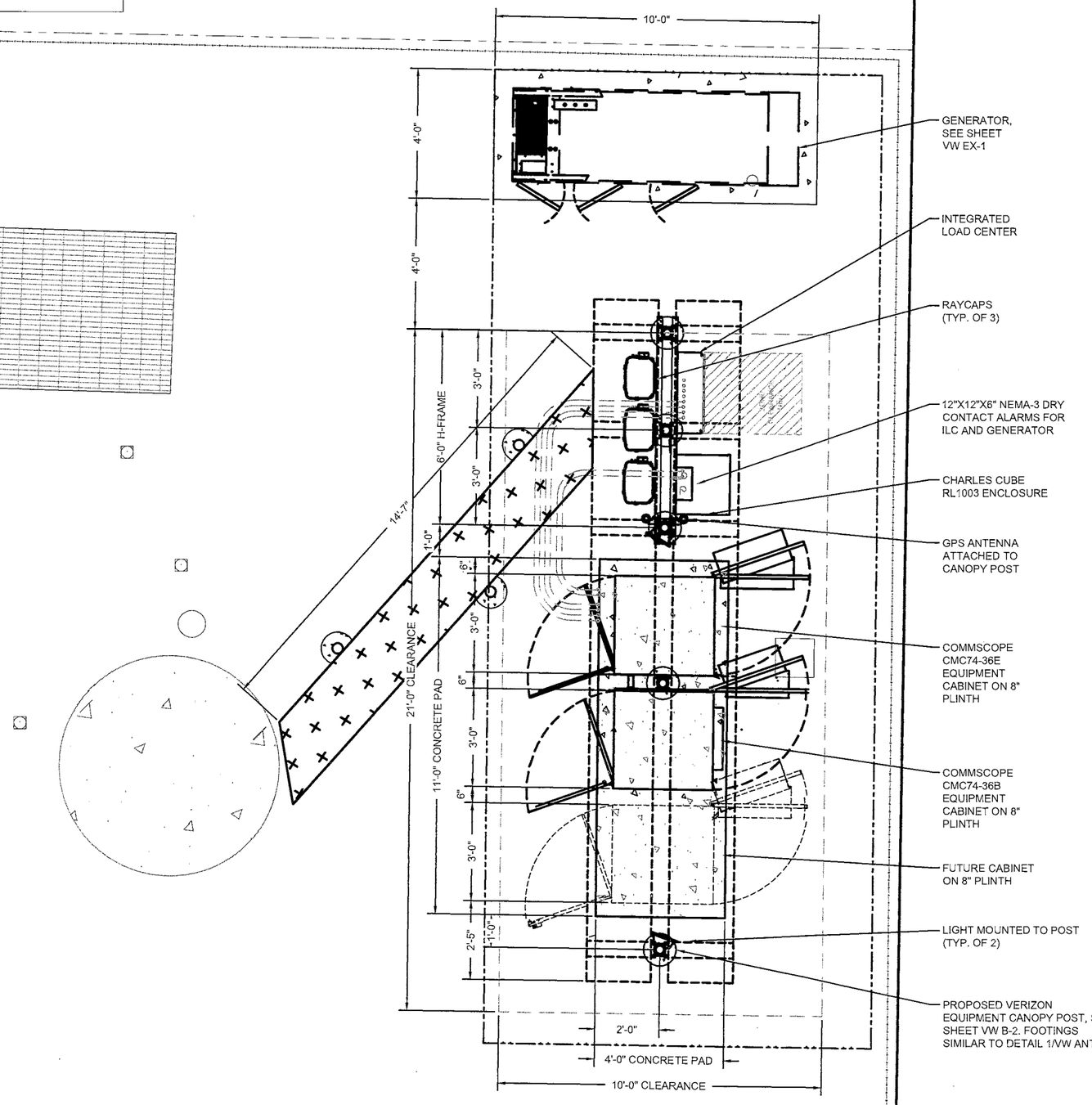
PROJECT INFORMATION:
7200 N SANTA MONICA BLVD
VILLAGE OF FOX POINT, WI 53217
MILWAUKEE COUNTY

SHEET TITLE:
GENERAL NOTES

SCALE: NONE

PROJECT NUMBER: 62656
SHEET NUMBER: C-3

NOTE:
FOR MORE EQUIPMENT
INFORMATION SEE SHEET VW B-2



EQUIPMENT PAD - LAYOUT PLAN (1)

SCALE: 1" = 3.75'

NORTH

CELLCO PARTNERSHIP
d/b/a VERIZON WIRELESS

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(608) 643-4100 www.ramaker.com

Certification & Seal:

MARK	DATE	DESCRIPTION
A	11/13/25	PRELIM CDs ISSUED

ISSUE PHASE: PRELIMINARY
DATE ISSUED: 11/10/2025

PROJECT TITLE:

DOCPARK_MCR
5000974975

PROJECT INFORMATION:
7200 N SANTA MONICA BLVD
VILLAGE OF FOX POINT, WI 53217
MILWAUKEE COUNTY

SHEET TITLE:

EQUIPMENT PAD PLAN & NOTES

0 1.875' 3.75' 7.5'

11" x 17" - 1" = 3.75'
22" x 34" - 1" = 1.875'

PROJECT NUMBER: 62656
SHEET NUMBER: B-1

DRAWN BY: ISA CHECKED BY: MJR

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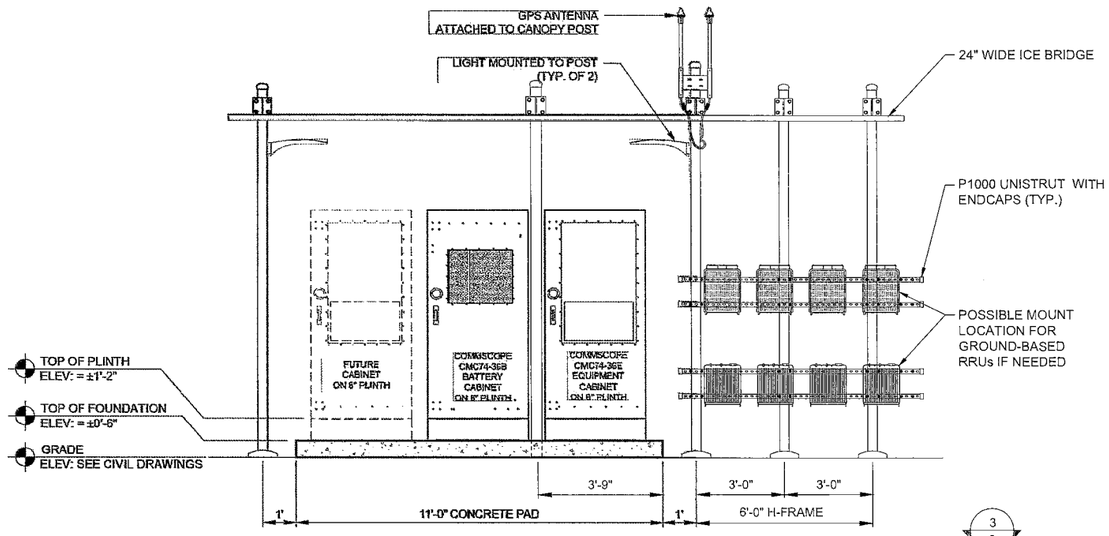
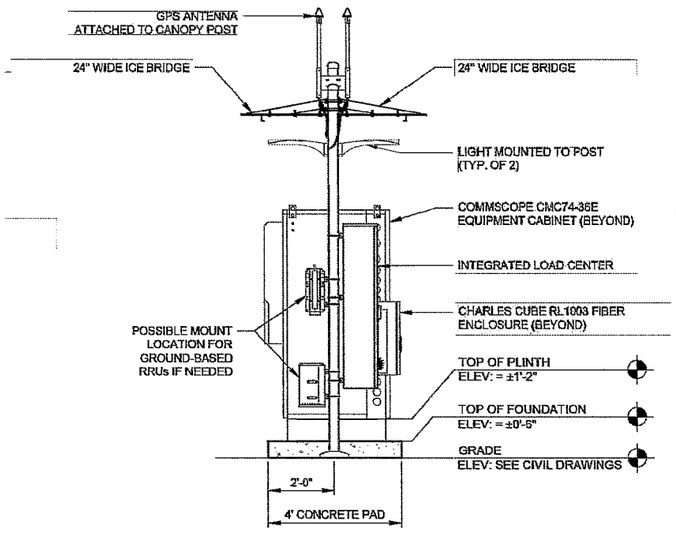
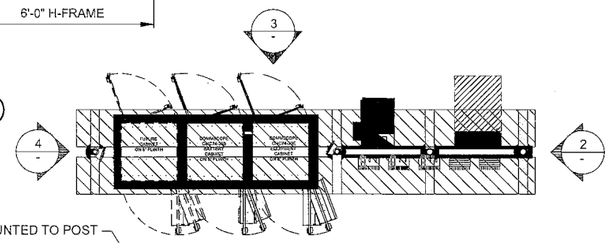
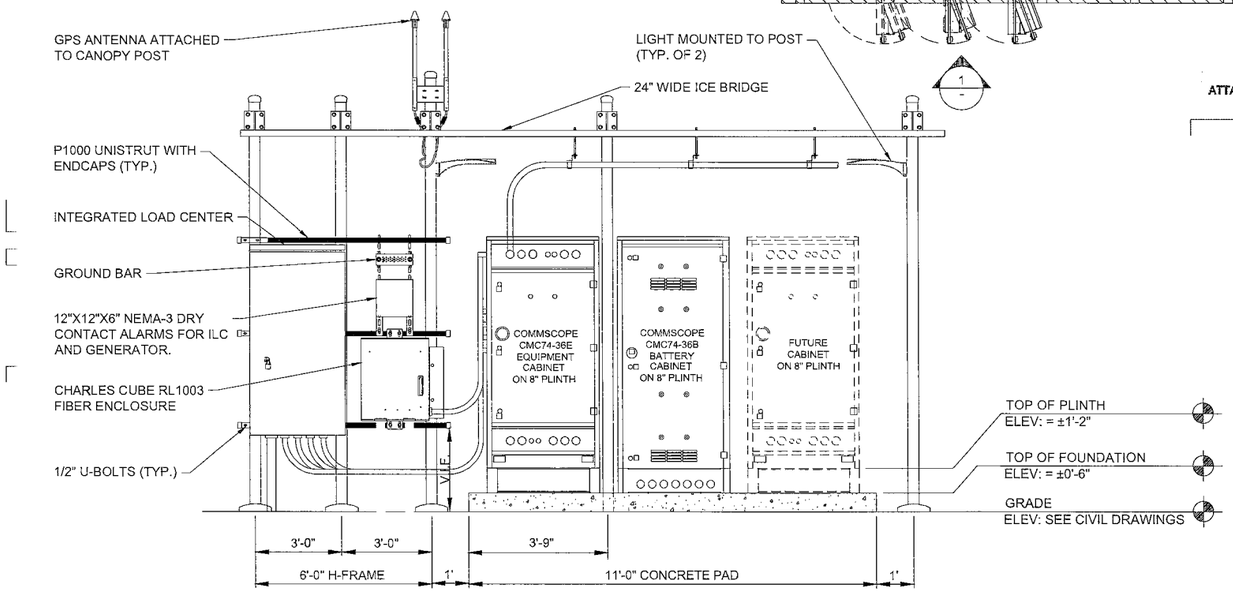


EQUIPMENT PAD ELEVATION (1)
SCALE: NTS

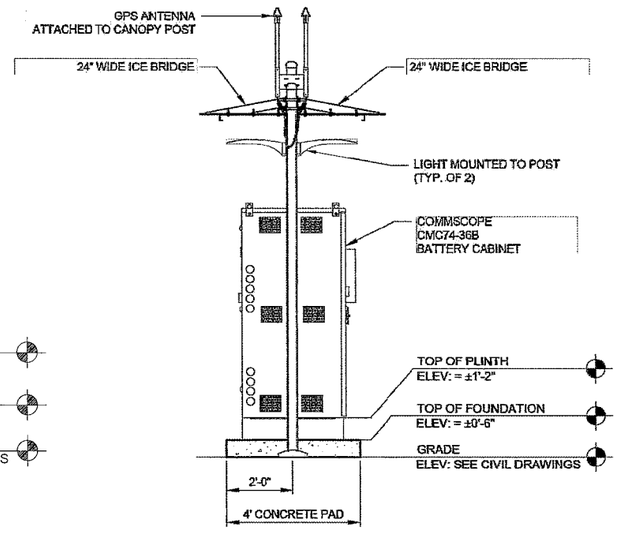


EQUIPMENT PAD ELEVATION (2)
SCALE: NTS





EQUIPMENT PAD ELEVATION (3)
SCALE: NTS



EQUIPMENT PAD ELEVATION (4)
SCALE: NTS

NOTE: FOR REFERENCE ONLY

CELLCO PARTNERSHIP
d/b/a VERIZON WIRELESS

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Certification & Seal:

MARK	DATE	DESCRIPTION
A	11/13/25	PRELIM CDs ISSUED

ISSUE PHASE: PRELIMINARY
DATE ISSUED: 11/10/2025

PROJECT TITLE:
DOCPARK_MCR
5000974975

PROJECT INFORMATION:
7200 N SANTA MONICA BLVD
VILLAGE OF FOX POINT, WI 53217
MILWAUKEE COUNTY

SHEET TITLE:
EQUIPMENT PAD ELEVATIONS

SCALE: NONE

PROJECT NUMBER: 62656
SHEET NUMBER: B-2

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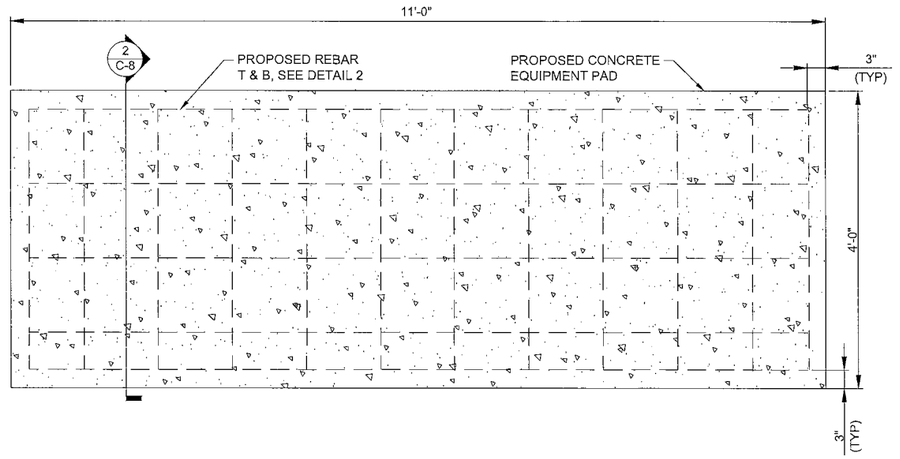
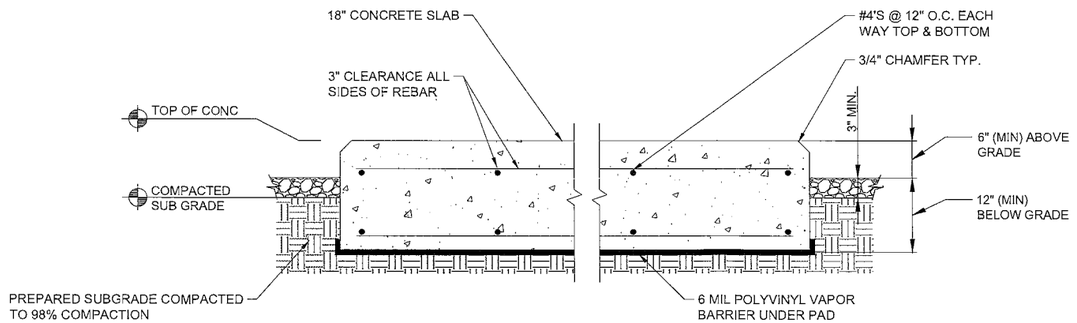


EQUIPMENT SLAB DETAIL 1

SCALE: NTS



NOTES:

1. SLAB TO BE LEVEL (±) 1/4".
3. FOUNDATION SHALL HAVE A MINIMUM 6" PROJECTION ABOVE GRADE.
4. CONCRETE STRENGTH SHALL BE A MINIMUM OF 4000 PSI @ 28 DAYS.

EQUIPMENT PAD DETAIL 2

SCALE: NTS

DRAWN BY: ISA CHECKED BY: MJR

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5000974975

PROJECT INFORMATION:
7200 N SANTA MONICA BLVD
VILLAGE OF FOX POINT, WI 53217
MILWAUKEE COUNTY

SHEET TITLE:

EQUIPMENT FOUNDATION

SCALE: NONE

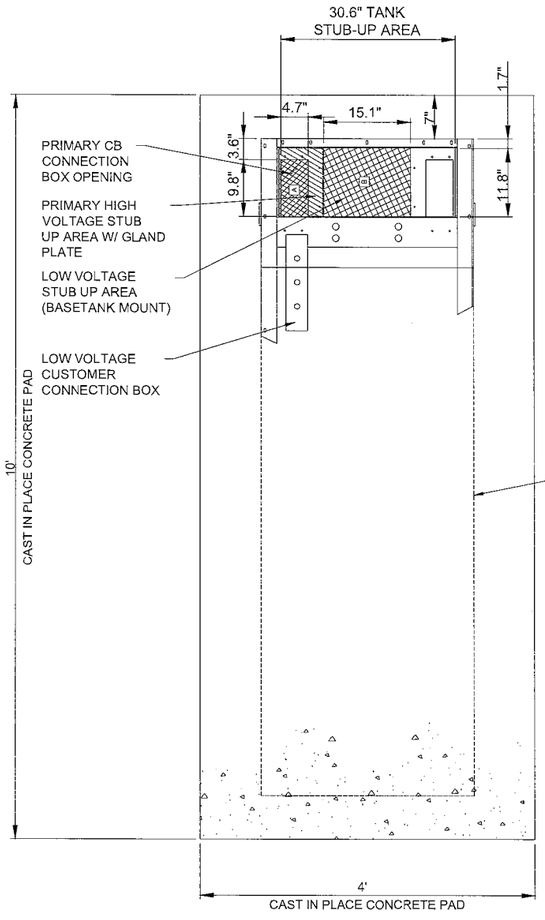
PROJECT NUMBER: 62656

SHEET NUMBER: B-3

RECOMMENDED ELECTRICAL STUB-UPS
(SEE DETAILED VIEW & TOP VIEW)

(LOW VOLTAGE STUB UP)
1. TRANSFER SWITCH/COMMUNICATIONS CONDUITS. COMMUNICATIONS AND 2-WIRE START MUST NOT BE RUN IN CONDUIT W/ AC WIRING.

(HIGH VOLTAGE STUB UP)
1. AC LOAD LEAD CONDUIT AREA.
2. 120/240 VAC FROM UTILITY FOR OPTIONAL LOADS SUCH AS GFCI OUTLET, BLOCK HEATER, BATTERY CHARGER, AND OTHER 120/240 VAC OPTIONS. (GLAND PLATE INCLUDED)

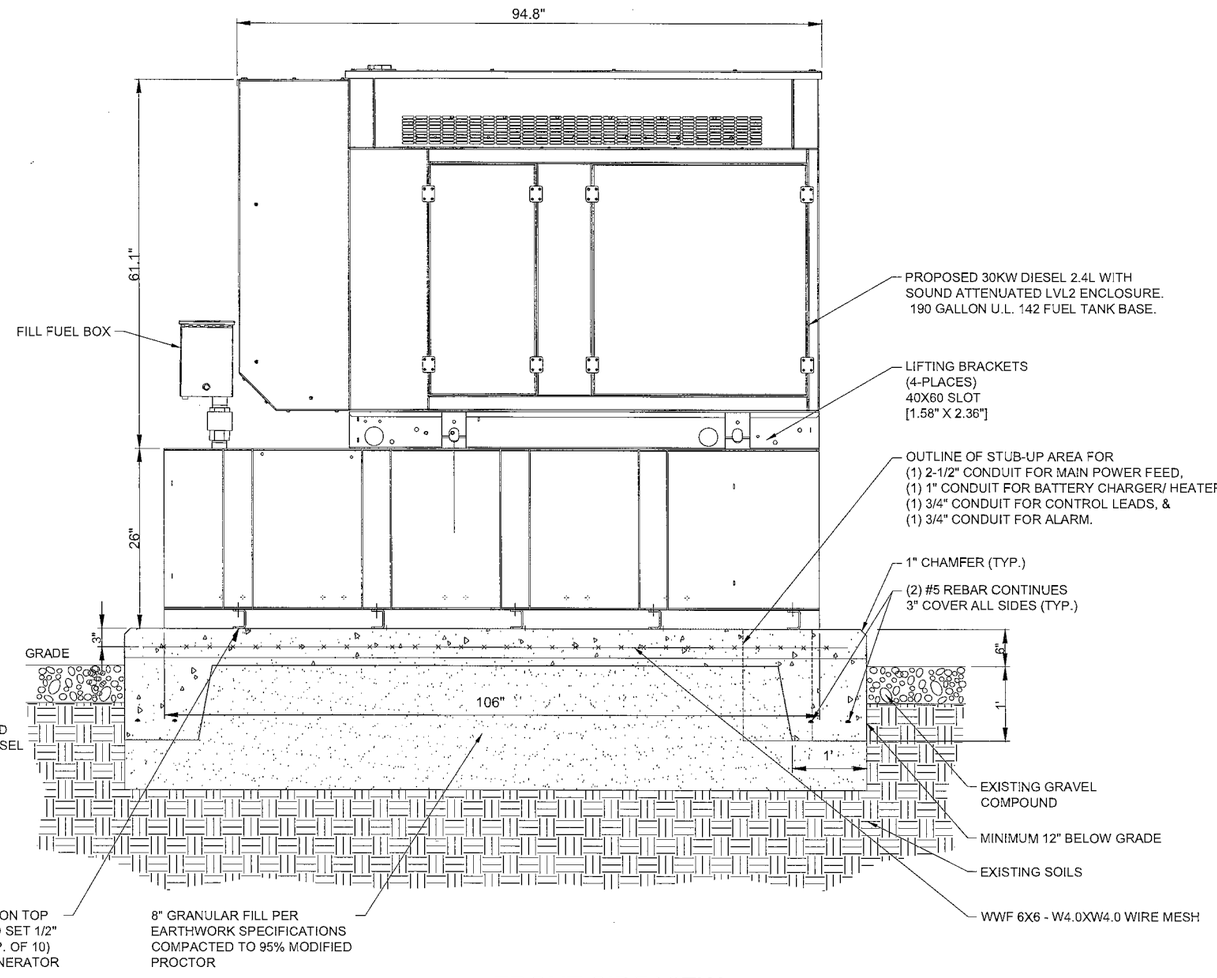


PLAN VIEW

TYPICAL GENERAC FOUNDATION DETAIL

SCALE: NTS

1



FRONT SIDE VIEW

TYPICAL GENERAC FOUNDATION DETAIL

SCALE: NTS

2

NOTES:

1. SEE GENERATOR MANUFACTURE'S DRAWINGS FOR PHYSICAL LOCATION OF FUEL LINES, CONTROL AND POWER INTERCONNECTIONS AND OTHER INTERFACES THAT ARE TO CAST INTO THE CONCRETE. THE PREFERRED METHOD IS TO BRING THE CONDUIT THROUGH THE PAD TO THE UNDERSIDE OF THE GENERATOR (MINIMIZES RODENT DAMAGE). FINISH CONNECTIONS WITH FLEXIBLE CONDUIT PER GENERATOR MANUFACTURES SPECS. RIGID CONDUITS SHALL BE SECURED TO THE EXISTING SLAB, THEN BURIED BETWEEN SLAB AND SHELTER.

2. -THE GENERATOR SHALL BE LOCATED A MIN 5' AWAY FROM A COMBUSTIBLE WALL.
-THE GENERATOR SHALL BE LOCATED A MIN OF 3' AWAY FROM A NON-COMBUSTIBLE WALL.

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7200 N SANTA MONICA BLVD
VILLAGE OF FOX POINT, WI 53217
MILWAUKEE COUNTY

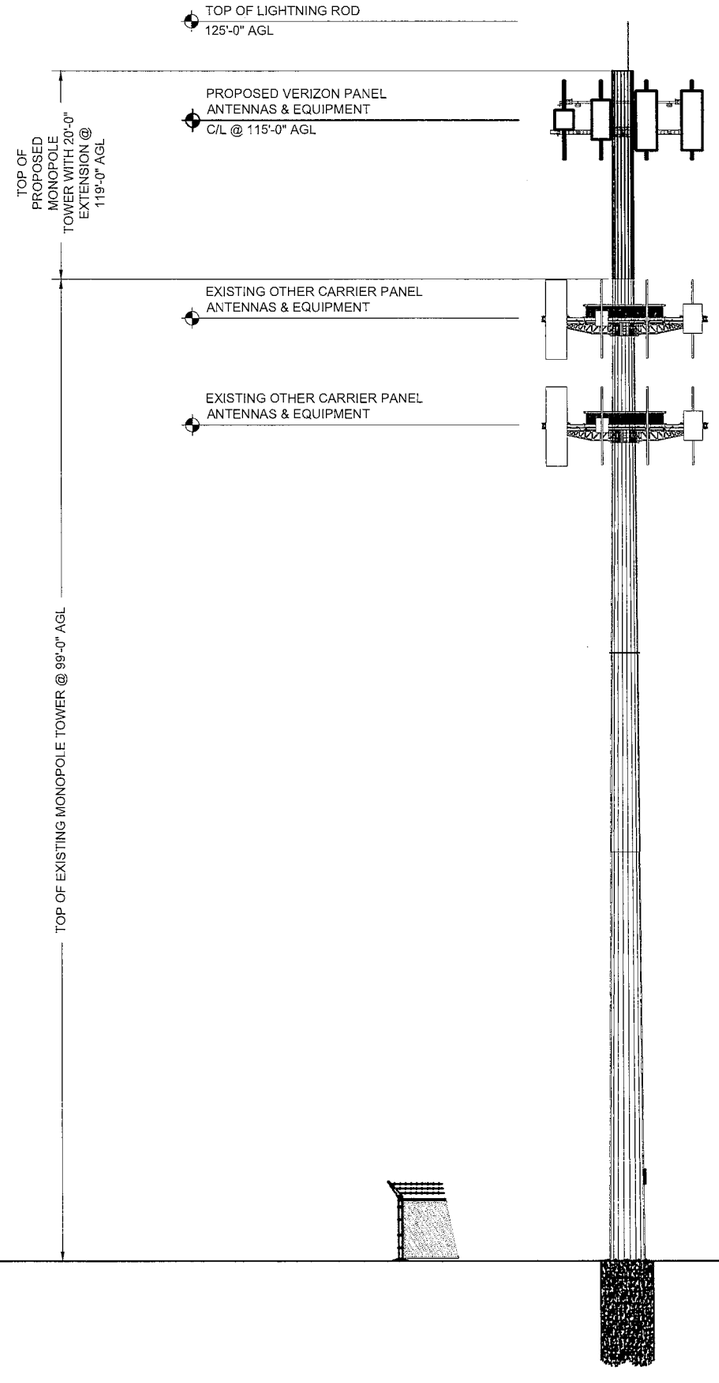
SHEET TITLE:

GENERATOR FOUNDATION

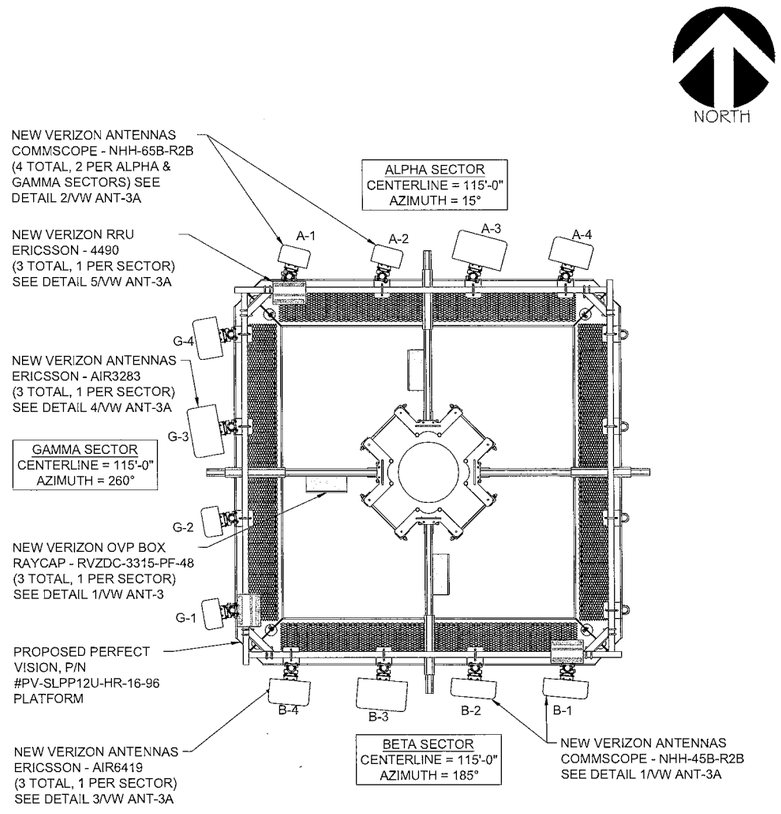
SCALE: NONE

PROJECT NUMBER: 62656
SHEET NUMBER: B-4

DRAWN BY:ISA CHECKED BY:MJR



SITE ELEVATION
SCALE: 1" = 15'
1



PROPOSED ANTENNA LAYOUT
SCALE: 1" = 5'
2

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VILLAGE OF FOX POINT, WI 53217
MILWAUKEE COUNTY

SHEET TITLE:
SITE ELEVATION

SCALE:
AS NOTED

PROJECT NUMBER: 62656
SHEET NUMBER: ANT-1

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Antenna Summary

Added

700	1900	AWS	AWS3	CBAND	Make	Atoll Model	Item Description	Centerline	Tip Height	Azimuth	Inst. Type	Quantity	Item ID
	LTE	LTE	5G		Ericsson	AIR3283	AIR 3283 B25 B66	115	117	15(A) 185(B) 260(C)	PHYSICAL	3	1900486642
				5G	Ericsson	AIR5419	AIR 6419 B77D Radio Unit	115	116.2	15(A) 185(B) 260(C)	PHYSICAL	3	1900483699
LTE					COMMSCOPE	NHH-65B-R2B	HEX PORT, AWS/PCS/700/850, 6 FT, 65 HBW,	115	118	15(A) 260(C)	PHYSICAL	4	1900056292
LTE					COMMSCOPE	NHH-45B-R2B	HEX PORT ANT, 45 DEGREE, 6 FT	115	118	185(B)	PHYSICAL	2	1900056291

Removed

700	1900	AWS	AWS3	CBAND	Make	Atoll Model	Item Description	Centerline	Tip Height	Azimuth	Inst. Type	Quantity	Item ID

No data available.

Retained

700	1900	AWS	AWS3	CBAND	Make	Atoll Model	Item Description	Centerline	Tip Height	Azimuth	Inst. Type	Quantity	Item ID

No data available.

Added: 12 Removed: 0 Retained: 0

ANTENNA SUMMARY (1)
SCALE: 1" = 5'

Equipment Summary

Added

Equipment Type	Location	700	1900	AWS	AWS3	CBAND	Make	Atoll Model	Item Description	Cable Length	Cable Size	Install Type	Quantity	Item ID
RRU	Tower	LTE					ERICSSON INC	4490	DB Radio 4490HP B5+B13- Rem Radio Unit			PHYSICAL	3	1900483084
RRU	Tower					5G	ERICSSON INC	AIR6419_B77D	AIR 6419 B77D Radio Unit			PHYSICAL	0	1900483699
RRU	Tower		LTE	LTE	5G		ERICSSON INC	AIR3283 B25+B66	AIR 3283 B25 B66			PHYSICAL	0	1900486642
OVP Box	Tower						RAYCAP INC	RVZDC-3315-PF-48	TOWER TOP AND BASE POWER PROTECTION FIBE			PHYSICAL	3	1900422667
Alarm	Tower						RAYCAP INC	3315-ALM-RS485	RETROFIT FOR THE 6OVP DIST BOX			PHYSICAL	3	1900070685
Hybrid Cable	Tower						HUBER & SUHNER INC	6X12 STD HYB (6AWG)_xxx FT W/GLAND			1-5/8 inch	PHYSICAL	3	

Removed

Equipment Type	Location	700	1900	AWS	AWS3	CBAND	Make	Atoll Model	Item Description	Cable Length	Cable Size	Install Type	Quantity	Item ID

No data available.

Retained

Equipment Type	Location	700	1900	AWS	AWS3	CBAND	Make	Atoll Model	Item Description	Cable Length	Cable Size	Install Type	Quantity	Item ID

No data available.

EQUIPMENT SUMMARY (2)
SCALE: 1" = 5'

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MILWAUKEE COUNTY

SHEET TITLE:
ANTENNA INFORMATION

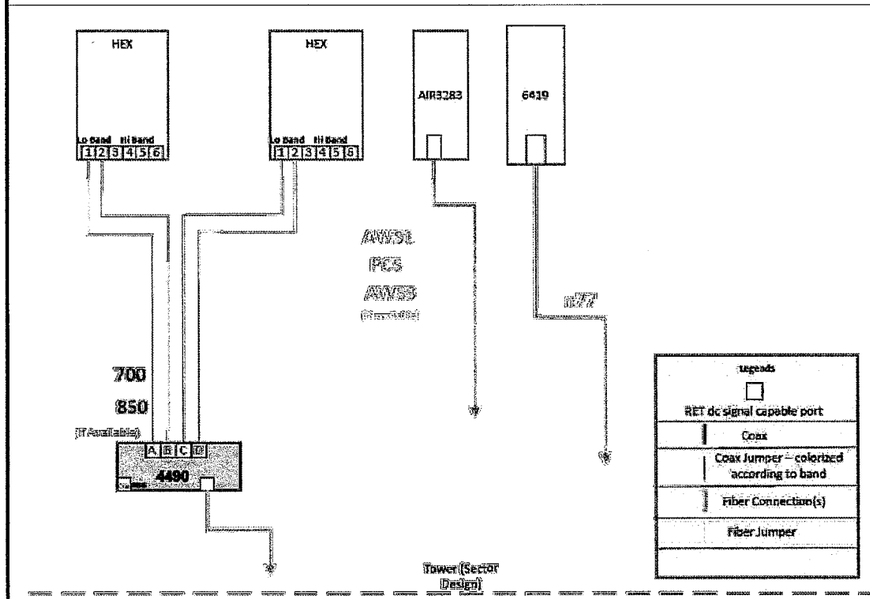
SCALE: NONE

PROJECT NUMBER: 62656
SHEET NUMBER: ANT-2

RF EMISSIONS REPORT REQUIRED

☐ YES ☒ NO

DATE OF REPORT: _____



Notes:

- Antenna view is from the back of the antennas
- Colors of connection are just for clarification
- Follow RET cabling standard for non-Smart Bias-T Ants
- Non-RF path elements like OVP/HTTA Box and Hybrid cables not shown
- Size of objects in drawing doesn't reflect equipment true dimension

CABLE DIAGRAM (1)
SCALE: NTS

	HYBRID LENGTH ESTIMATE				
	AT GROUND		AT STRUCTURE		
SECTOR	HOR (±)	VER (±)	HOR (±)	RAYCAP CL (±)	TOTAL (±)
ALPHA	15'	10'	20'	115'	160'
BETA	15'	10'	20'	115'	160'
GAMMA	15'	10'	20'	115'	160'

NOTE TO RF, G.C. & IMPLEMENTATION:
RAYCAP CHART IS CURRENTLY BEING UPDATED BY VERIZON WIRELESS. PRIOR TO FINAL AND CONSTRUCTION, CHART TO BE INSERTED. GC TO NOTIFY VERIZON WIRELESS IF THIS NOTE IS STILL ON THE DRAWINGS PRIOR TO CONSTRUCTION.

Raycap Layout - Raycap Per Sector

POWER

3		6	
2		5	
1		4	

FIBER

1	2	3	4	5	6

7	8	9	10	11	12

RAYCAP TABLE (2)
SCALE: NTS

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7200 N SANTA MONICA BLVD
VILLAGE OF FOX POINT, WI 53217
MILWAUKEE COUNTY

SHEET TITLE:
ANTENNA INFORMATION

SCALE: NONE

PROJECT NUMBER: 62656
SHEET NUMBER: ANT-2A

DRAWN BY: ISA CHECKED BY: MJR

Printed by: ial-amoodi on Nov 14, 2025 - 10:34am

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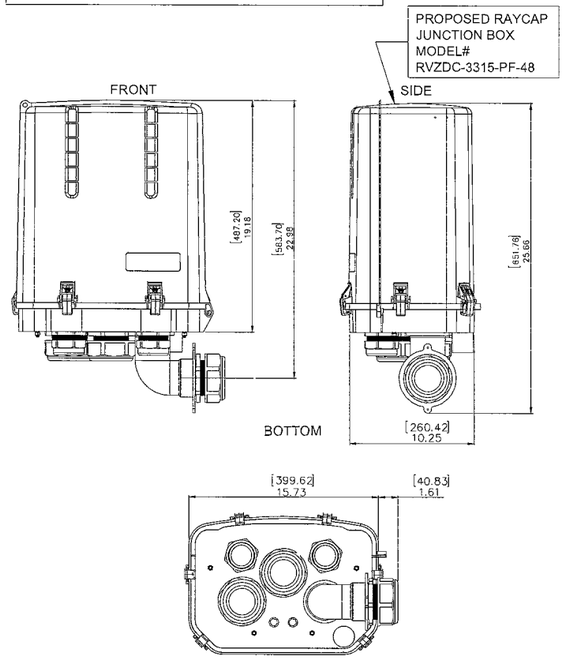
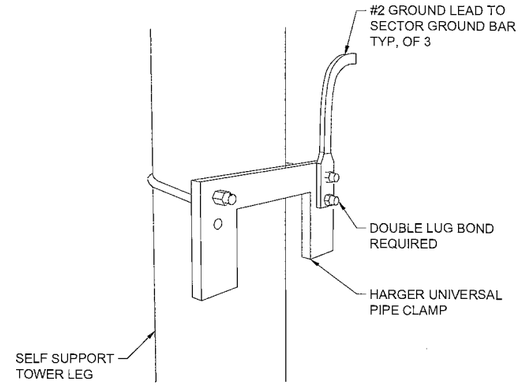
SPECIFICATIONS	DC SURGE PROTECTION FOR RRU/INTEGRATED ANTENNA RADIO HEAD	[mm] INCHES
APPLICATION:	TOWER / BASE / ROOFTOP / ROOFTOP DISTRIBUTION MODELS	
WEIGHT:	32LBS (14.51 KG)	



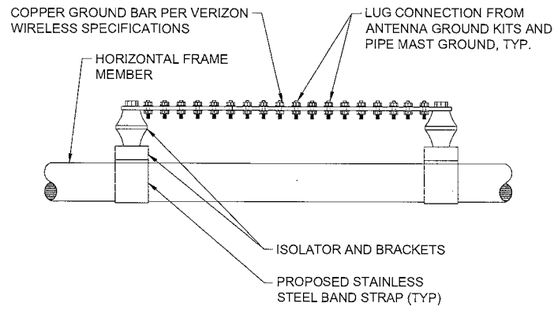
RAYCAP JUNCTION BOX DETAIL (1)

SCALE: NTS



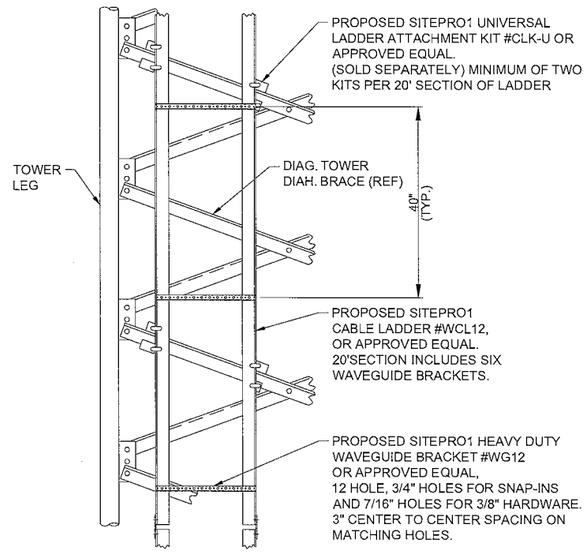
SELF SUPPORT TOWER (ROUND MEMBER) (2)

SCALE: NTS



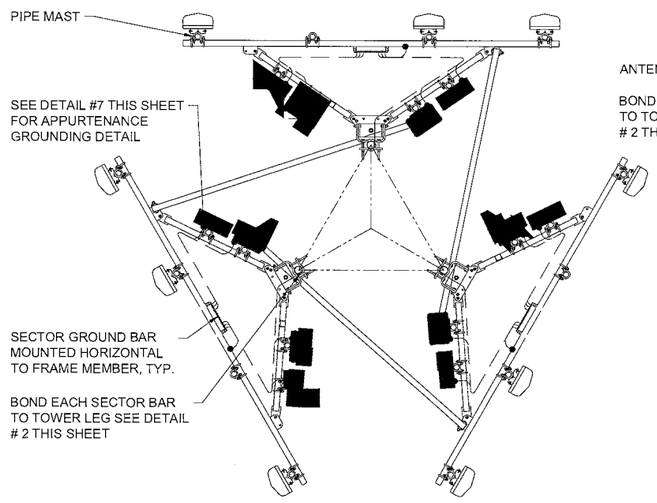
GROUND BAR AT SECTOR (3)

SCALE: NTS



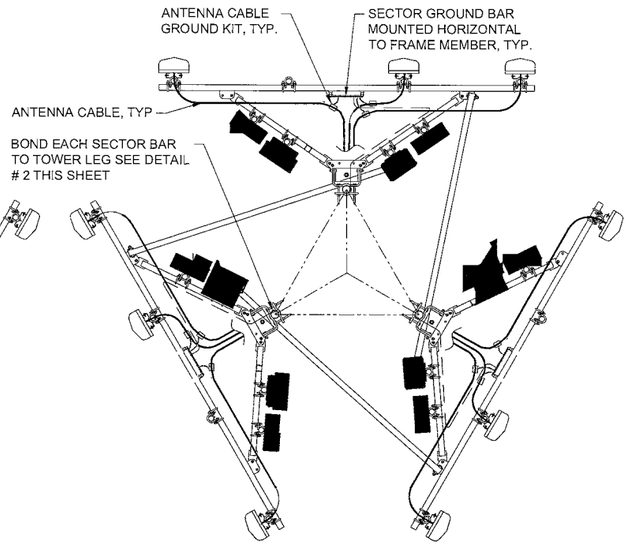
TRANSMISSION LINE HANGER (4)

SCALE: NTS



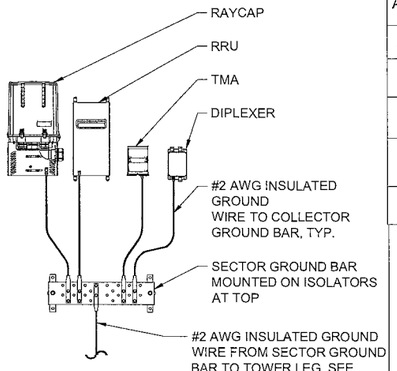
EQUIPMENT GROUNDING AT ANTENNA ELEVATION (5)

SCALE: NTS



ANTENNA CABLE GROUNDING AT ANTENNA ELEVATION (6)

SCALE: NTS



THIS DETAIL IS CONCEPTUAL TO DEMONSTRATE GROUNDING AT THE ANTENNA LEVEL. VERIFY EQUIPMENT, MOUNTING FRAME, AND AZIMUTH WITH ANT-1 SHEET & ECR.

TYPICAL APPURTENANCE GROUNDING AT ANTENNA LEVEL (7)

SCALE: NTS

APPROVED UL LISTED GROUND CLAMPS	
APPLICATION	UL LISTED HARGER PART #
METAL FLANGE	213, 213T, 213TTP
PIPE MEMBER	CPC SERIES (SIZED TO FIT DIAMETER OF PIPE)
LARGER PIPE MEMBER	UPC SERIES (UNIVERSAL PIPE CLAMP) SIZED TO FIT DIAMETER OF PIPE
TO TOWER LEG	HARGER UNIVERSAL PIPE CLAMP

NOTES:

1. THE BOND BETWEEN THE SECTOR BAR AND THE TOWER IS TO BE MECHANICALLY BONDED TO TOWER LEG. THE MECHANICAL BOND IS TO BE A UL APPROVED MECHANICAL CONNECTION CLAMP.
2. GROUND CONNECTIONS MUST BE DOUBLE HOLE CONNECTION. SPECIAL EXCEPTION ONLY TO EQUIPMENT THAT WILL NOT ALLOW FOR A DOUBLE HOLE CONNECTION.

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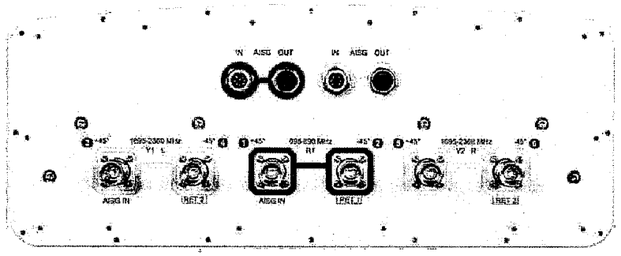
VILLAGE OF FOX POINT, WI 53217
MILWAUKEE COUNTY

SHEET TITLE:
ANTENNA INFORMATION

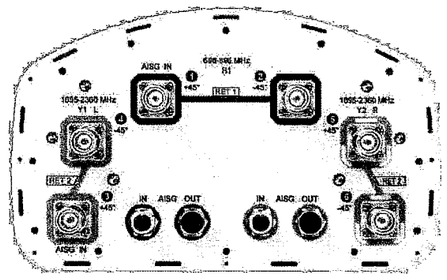
SCALE: NONE

PROJECT NUMBER: 62656
SHEET NUMBER: ANT-3



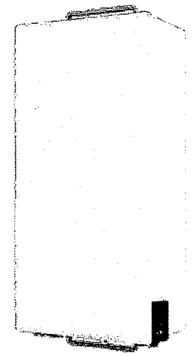
COMMSCOPE NHH-45B-R2B
DIMENSIONS (HXWXD): 72.008"X17.992"X7.008"
WEIGHT (LBS): 73.634

COMMSCOPE ANTENNA DETAIL (1)
SCALE: NTS



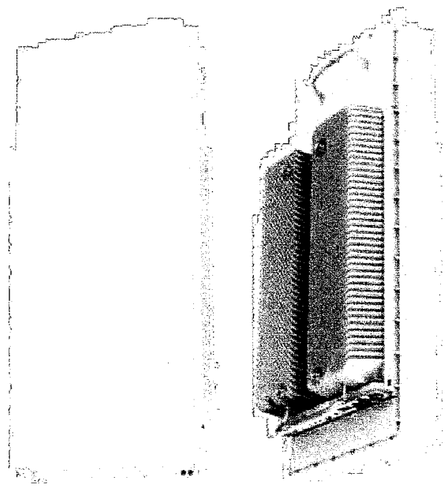
COMMSCOPE NHH-65B-R2B
DIMENSIONS (HXWXD): 71.969"X11.85"X7.087"
WEIGHT (LBS): 43.651

COMMSCOPE ANTENNA DETAIL (2)
SCALE: NTS



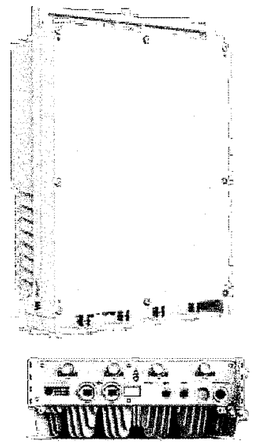
ERICSSON - AIR6419
DIMENSIONS (HXWXD): 31.3" X 16.1" X 9.8"
WEIGHT (LBS): 71.0

ERICSSON ANTENNA DETAIL (3)
SCALE: NTS



ERICSSON - AIR3283
DIMENSIONS (HXWXD): 47.2" X 20" X 12"
WEIGHT (LBS): 110.0

ERICSSON ANTENNA DETAIL (4)
SCALE: NTS



ERICSSON RRUS 4490HP 44B5 44B13 C	
DIMENSIONS, HXWXD:	20.6" X 15.7" X 7.0"
WEIGHT, WITHOUT MOUNTING KIT:	~68.4 LBS (~31 KG)

ERICSSON 4490 RRU DETAIL (5)
SCALE: NTS

NOT USED (6)
SCALE: NTS

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SHEET TITLE:
ANTENNA INFORMATION

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SHEET NUMBER: ANT-3A

DRAWN BY:ISA CHECKED BY:MJR

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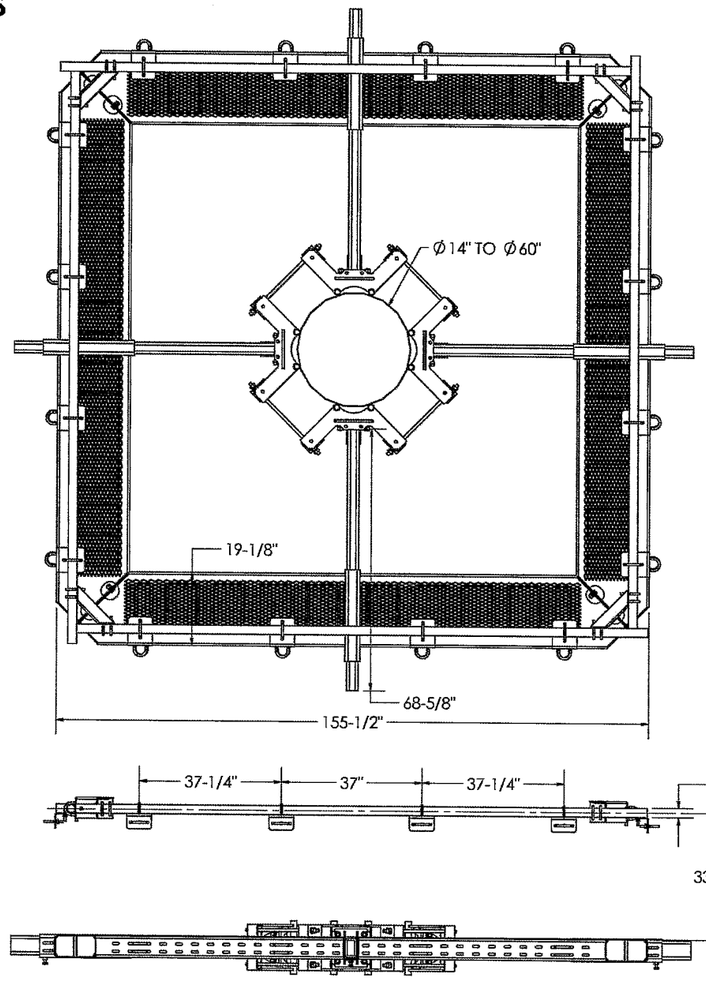
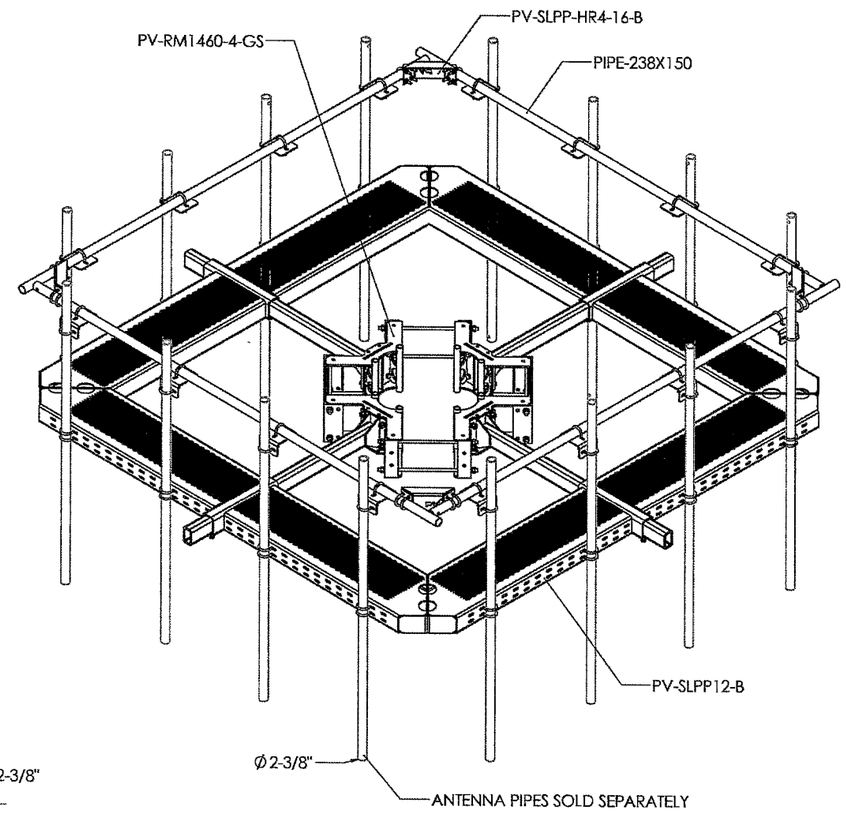
PV-SLPP12U-HR-B-NS
ANT.56937

12' SQUARE MONOPOLE PLATFORM





SHEET 1 OF 4	THIRD ANGLE PROJECTION	CATEGORY	02_Monopole	4			PERFECTVISION
12/20/2023	SCALE 1:30	SERIES	02_Square	3			
DIMENSIONS ARE IN INCHES TOLERANCES U.N.O. HOLES: +1/16", -1/32" ANGULAR: PROFILE±1/4°, BEND±2° ALL OTHERS: ±1/16"		TYPE	PV-SLPP	2			SQUARE PLATFORM
		BY	DJN	1			DOCUMENT NUMBER SLPP-ENG-03-R0
		CHECKED	SJS	0	INITIAL RELEASE	12/19/23	REV 0
		STATUS	APPROVED	REV	DESCRIPTION	DATE	

CELLCO PARTNERSHIP
d/b/a VERIZON WIRELESS

RAMAKER
employee-owned
(608) 643-4100 www.ramaker.com

Certification # Seal:

MARK	DATE	DESCRIPTION
A	11/13/25	PRELIM CDs ISSUED

ISSUE PHASE: PRELIMINARY
DATE ISSUED: 11/10/2025

PROJECT TITLE:
DOCPARK_MCR
5000974975

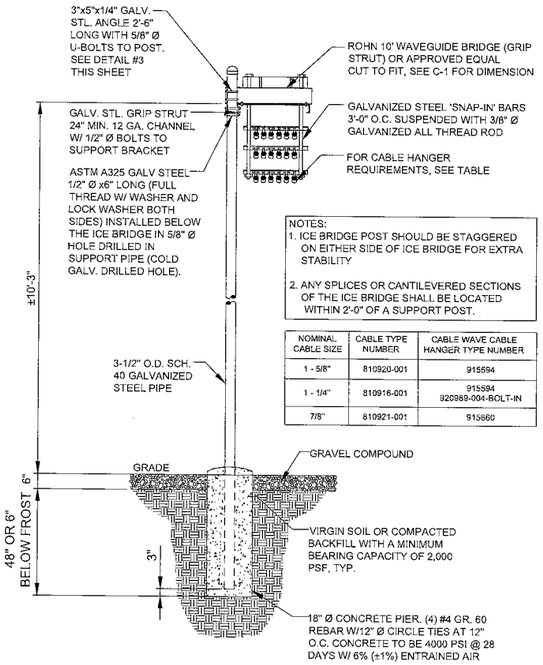
PROJECT INFORMATION:
7200 N SANTA MONICA BLVD
VILLAGE OF FOX POINT, WI 53217
MILWAUKEE COUNTY

SHEET TITLE:
ANTENNA SECTOR FRAME

SCALE: NONE

PROJECT NUMBER: 62656
SHEET NUMBER: ANT-3B

DRAWN BY: ISA CHECKED BY: MJR

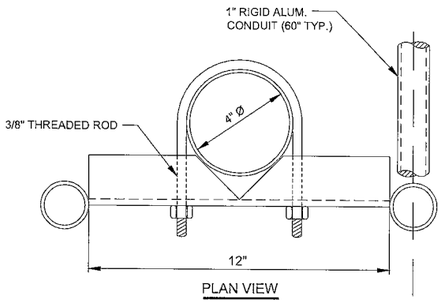


NOTES:
1. ICE BRIDGE POST SHOULD BE STAGGERED ON EITHER SIDE OF ICE BRIDGE FOR EXTRA STABILITY
2. ANY SPLICES OR CANTILEVERED SECTIONS OF THE ICE BRIDGE SHALL BE LOCATED WITHIN 2'-0" OF A SUPPORT POST.

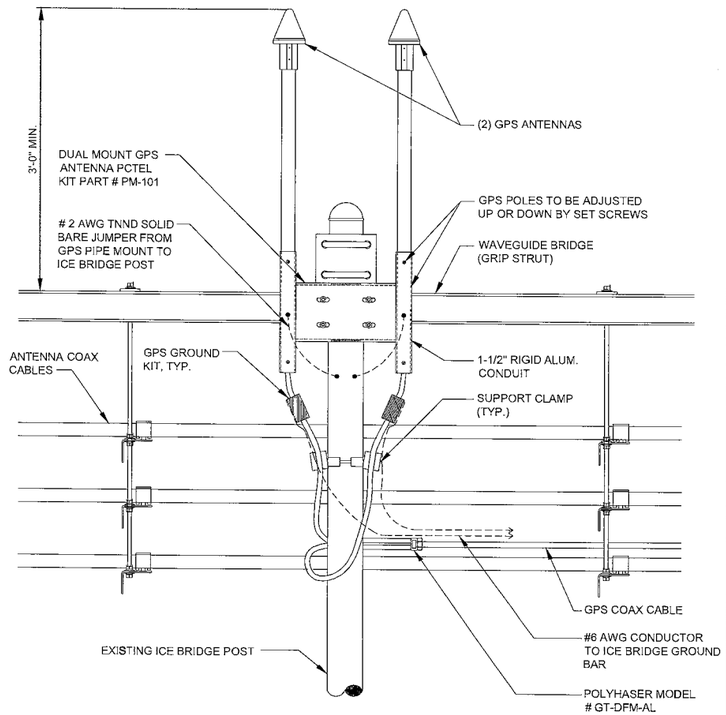
NOMINAL CABLE SIZE	CABLE TYPE NUMBER	CABLE WAVE CABLE HANGER TYPE NUMBER
1 - 5/8"	810920-001	915594
1 - 1/4"	810916-001	915594 920869-004-BOLT-IN
7/8"	810921-001	915660

ICE BRIDGE DETAIL
SCALE: NTS — 1

NOT USED
SCALE: NTS — 2

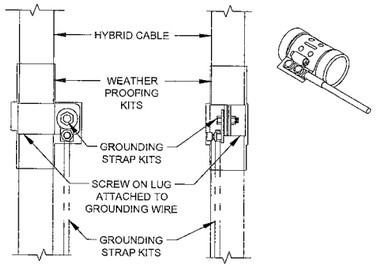


PLAN VIEW



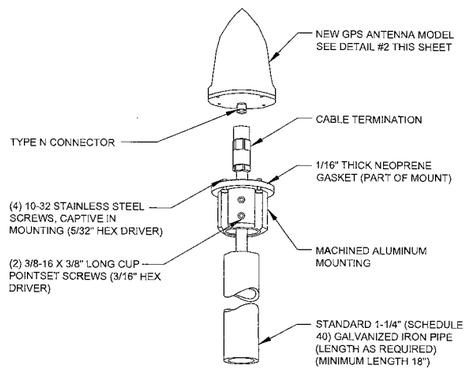
GPS MOUNTING DETAIL
SCALE: NTS — 3

NOTES:
1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
2. THIS DETAIL IS TYPICAL FOR EACH CABLE WHERE IT IS SPECIFIED TO BE GROUNDED
3. CABLE TO BE GROUNDED AT ANTENNA LEVEL AND PRIOR TO ENTERING SHELTER ENTRY PANEL.
4. CABLE ALSO TO BE GROUNDED TO GROUND BAR AT TOWER BASE IF APPLICABLE.
5. USE ONLY TIN PLATED GROUNDING KITS.



COAX/ HYBRID GROUND KIT DETAIL
SCALE: NTS — 5

NOTE:
INSTALL EACH GPS ON THE CLOSEST ICE BRIDGE POSTS TO SHELTER (TYP. AT 2 LOCATIONS).



TYPICAL GPS DETAIL
SCALE: NTS — 4

CELLCO PARTNERSHIP
d/b/a VERIZON WIRELESS

RAMAKER
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Certification # Seal:

MARK	DATE	DESCRIPTION
A	11/13/25	PRELIM CDs ISSUED

ISSUE PHASE: PRELIMINARY
DATE ISSUED: 11/10/2025

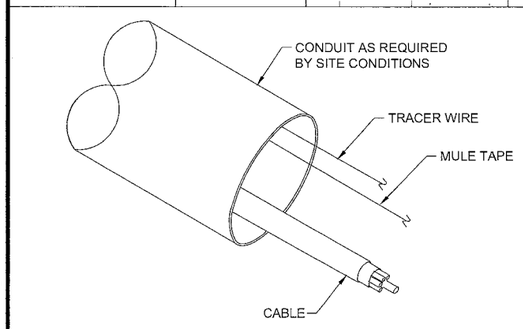
PROJECT TITLE:
DOCPARK_MCR
5000974975

PROJECT INFORMATION:
7200 N SANTA MONICA BLVD
VILLAGE OF FOX POINT, WI 53217
MILWAUKEE COUNTY

SHEET TITLE:
SITE DETAILS

SCALE: NONE

PROJECT NUMBER: 62656
SHEET NUMBER: ANT-4



NOTE:
1) TRACER WIRE TO BE PLACED IN BOTH POWER AND FIBER CONDUITS
2) GROUND TRACER WIRE AT POLE VIA BEAM CLAMP AT EQUIPMENT. DO NOT BOND TRACER WIRE AT BOTH ENDS.

TRACER WIRE DETAIL (2)
SCALE: NTS

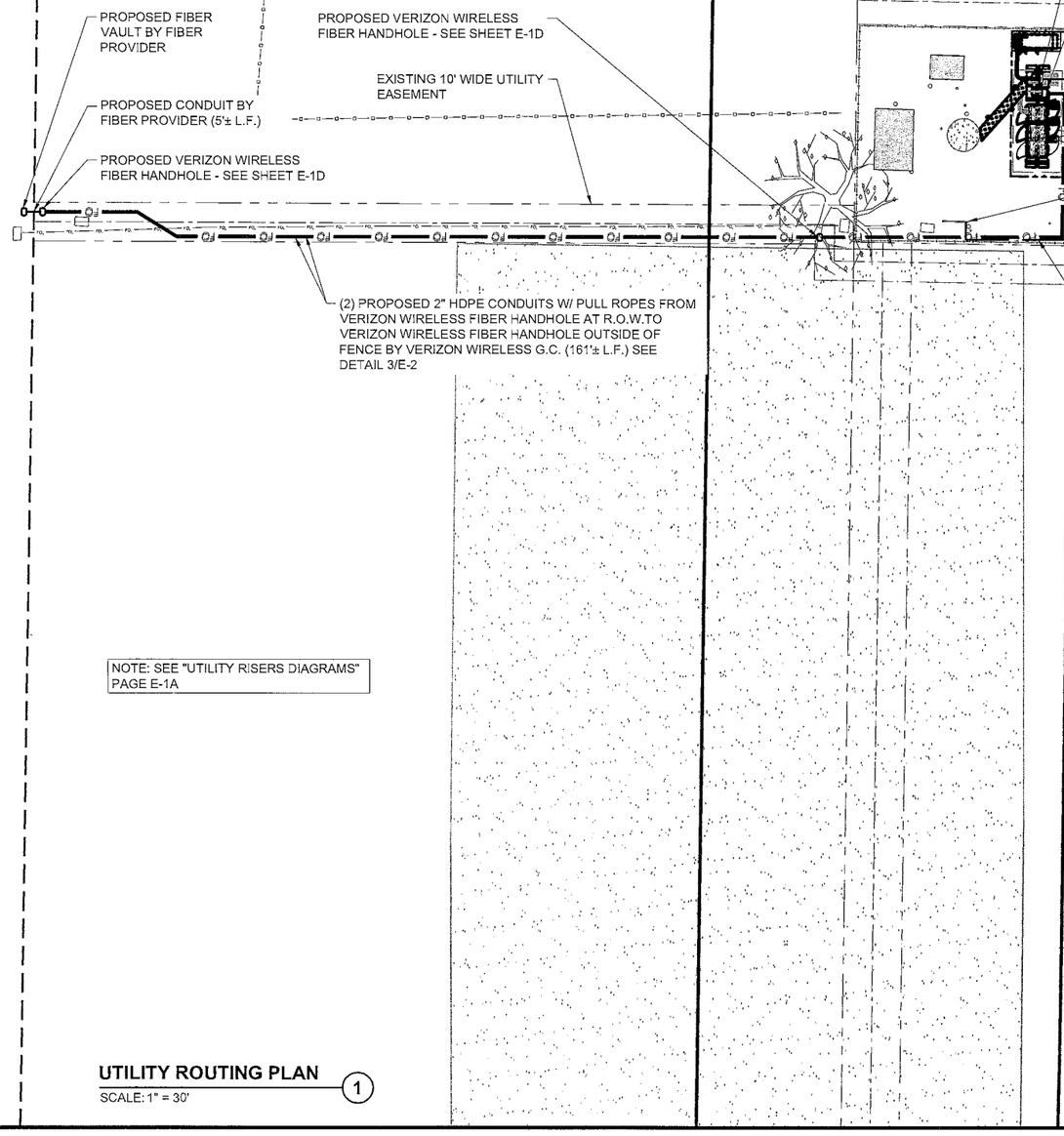
COORDINATION WITH UTILITY COMPANY

THE ELECTRICAL CONTRACTOR SHALL COORDINATE COMPLETE ELECTRICAL SERVICE WITH LOCAL UTILITY COMPANIES FOR A COMPLETE OPERATIONS SYSTEM, INCLUDING TRANSFORMER CONNECTIONS, CONCRETE TRANSFORMER PADS PRIOR TO SUBMITTING BID TO INCLUDE ALL LABOR AND MATERIALS

1. WIRING OF EVERY KIND MUST BE INSTALLED IN CONDUIT, UNLESS NOTED OTHERWISE, OR AS APPROVED BY THE ENGINEER.
2. UNLESS OTHERWISE SPECIFIED, ALL WIRING SHALL BE COPPER (CU) TYPE THWN, SIZED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
3. RACEWAYS SHALL BE GALVANIZED STEEL, SIZED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, UNLESS OTHERWISE NOTED. ALL RACEWAYS SHALL BE APPROVED FOR THE INSTALLATION.
4. PULL OR JUNCTION BOXES SHALL BE PROVIDED AS REQUIRED TO FACILITATE INSTALLATION OF RACEWAYS AND WIRING.
5. PROVIDE A COMPLETE RACEWAY AND WIRING INSTALLATION, PERMANENTLY AND EFFECTIVELY GROUNDED IN ACCORDANCE WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE AND LOCAL CODES.

CODES AND STANDARDS

ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
NEC	NATIONAL ELECTRICAL CODE, LATEST ADOPTED EDITION
NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
UL	UNDERWRITERS LABORATORIES, INC.



NOTE: SEE "UTILITY RISERS DIAGRAMS" PAGE E-1A

UTILITY ROUTING PLAN (1)
SCALE: 1" = 30'

NORTH

CELLCO PARTNERSHIP
d/b/a VERIZON WIRELESS

RAMAKER
employee-owned
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Certification & Seal:

MARK	DATE	DESCRIPTION
A	11/13/25	PRELIM CDs ISSUED

ISSUE PHASE: PRELIMINARY
DATE ISSUED: 11/10/2025

PROJECT TITLE:
DOCPARK_MCR
5000974975

PROJECT INFORMATION:
7200 N SANTA MONICA BLVD
VILLAGE OF FOX POINT, WI 53217
MILWAUKEE COUNTY

SHEET TITLE:
UTILITY ROUTING PLAN

0 15' 30' 60'
11" x 17" - 1" = 30'
22" x 34" - 1" = 15'

PROJECT NUMBER: 62656
SHEET NUMBER: E-1

DRAWN BY: ISA CHECKED BY: MJR

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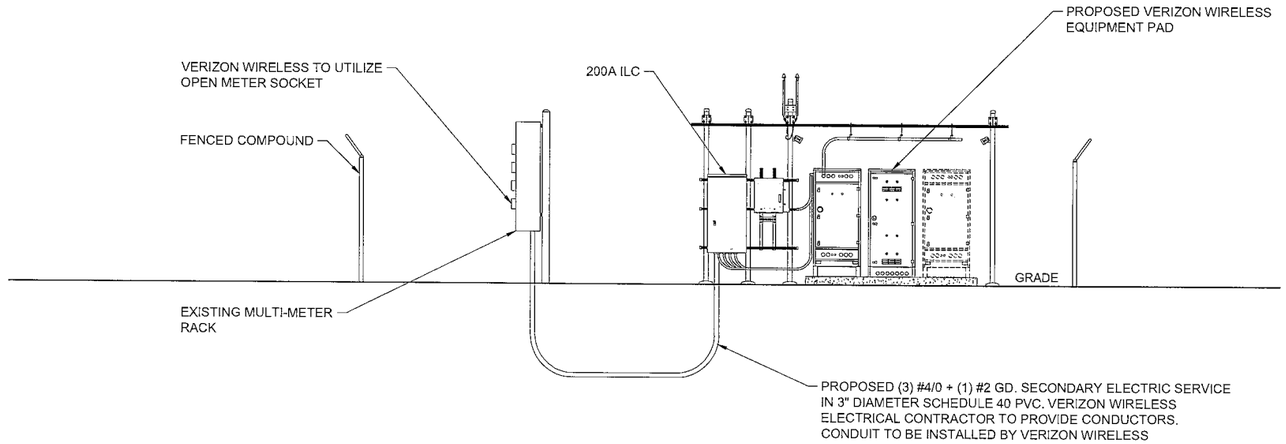


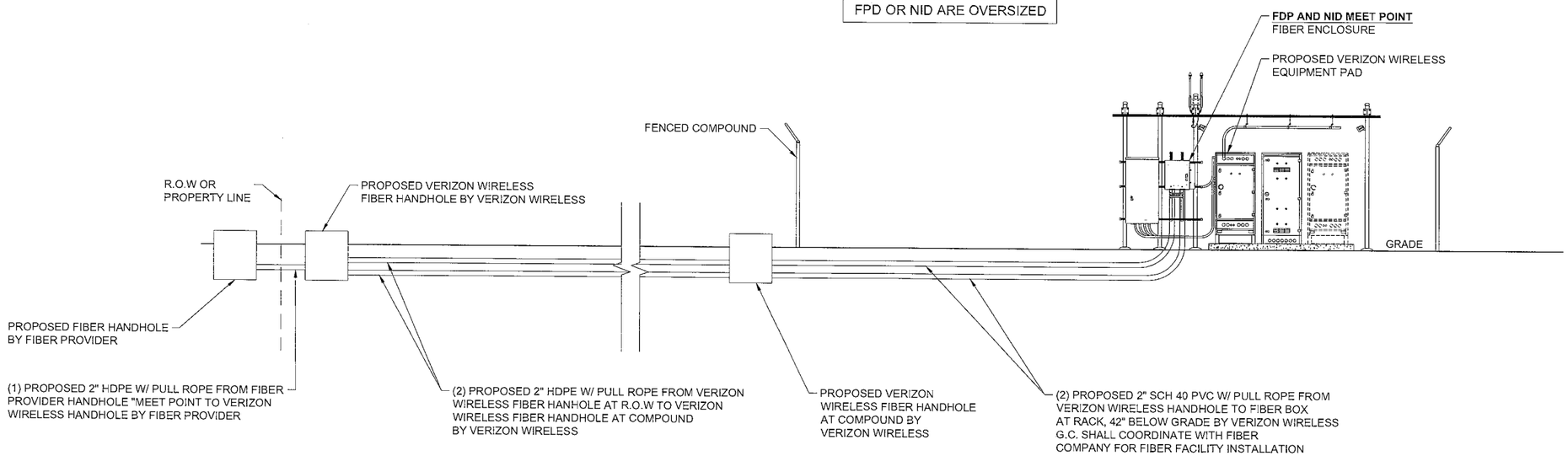
ELECTRICAL SERVICE: 200 AMP 120/240V SINGLE PHASE 3 WIRE

POWER RISER DIAGRAM (1)

SCALE: NTS

- DESIGN PENDING FIBER COORDINATION

NOTE:
ADDITIONAL COORDINATION REQUIRED WITH VERIZON IF FPD OR NID ARE OVERSIZED



NOTE: VERIFY FIBER ROUTING REQUIREMENTS WITH FIBER COMPANY

FIBER RISER DIAGRAM (2)

SCALE: NTS

CELLCO PARTNERSHIP
d/b/a VERIZON WIRELESS

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Certification # Seal:

MARK	DATE	DESCRIPTION
A	11/13/25	PRELIM CDs ISSUED

ISSUE PHASE: PRELIMINARY
DATE ISSUED: 11/10/2025

PROJECT TITLE:

DOCPARK_MCR
5000974975

PROJECT INFORMATION:
7200 N SANTA MONICA BLVD
VILLAGE OF FOX POINT, WI 53217
MILWAUKEE COUNTY

SHEET TITLE:

UTILITY RISER DIAGRAM

SCALE: NONE

PROJECT NUMBER: 62656
SHEET NUMBER: E-1A

DRAWN BY:MJR CHECKED BY:MJR

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NOTES:

1) SEE DETAILS ON EXISTING GROUND GRID AND GENERATOR GROUND GRID FOR REQUIRED GROUNDING SYSTEM.

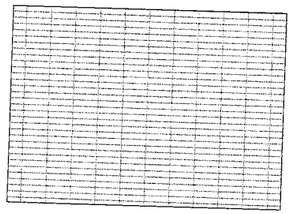
2) NEW AUTOMATIC TRANSFER SWITCH, INSTALLED AND WIRED BY E.C. CONNECT EXTERNAL GROUND LUG AND GROUNDING CONDUCTOR THAT WAS REMOVED FROM MANUAL TRANSFER SWITCH.

3) E.C. MUST LOCATE GROUND GRID INSTALLED FOR NEW EQUIPMENT PAD & PROVIDE THE ATTACHMENT OF THE GENERATOR GROUND TO THE EQUIPMENT GRID FOR SINGLE POINT GROUNDING.

4) E.C. TO EXTEND #2 TINNED SOLID COPPER GROUND CONDUCTORS FROM (2) LOCATIONS ON GENERATOR FRAME (SEE MANUFACTURERS RECOMMENDATIONS) PROVIDE GROUND LUGS ON GENERATOR AS REQUIRED. EXTEND #1/0 STRANDED GROUND CONDUCTOR AND CONNECT TO COPPER CLAD GROUND RODS VIA HEAVY DUTY EXOTHERMIC TERMINATIONS AND THEN EXTENDED AND ATTACH TO BUILDING GROUND GRID VIA EXOTHERMIC TERMINATIONS.

5) NEW GENERATOR FURNISHED BY LESSEE. INSTALLED AND WIRED BY E.C. DELIVERED AND SET BY CONTRACTOR.

6) E.C. MUST MONITOR DC POWER WHEN ON BATTERY BACK-UP DURING PORTIONS OF CONSTRUCTION. IF LEVEL FALLS BELOW RECOMMENDED LEVEL 2256 DC, E.C. MUST TURN ON THE MAIN POWER. THE CELL SITE CANNOT GO OFF LINE AT ANYTIME.



NOTE:
CONTRACTOR TO VERIFY ROUTES WITH LOCAL UTILITY COMPANY PRIOR TO INSTALLATION.

GENERATOR UTILITY ROUTING PLAN (1)
SCALE: 1" = 3.75'

NORTH

CELLCO PARTNERSHIP
d/b/a VERIZON WIRELESS

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Certification # Seal:

MARK	DATE	DESCRIPTION
A	11/13/25	PRELIM CDs ISSUED

ISSUE PHASE: PRELIMINARY
DATE ISSUED: 11/10/2025

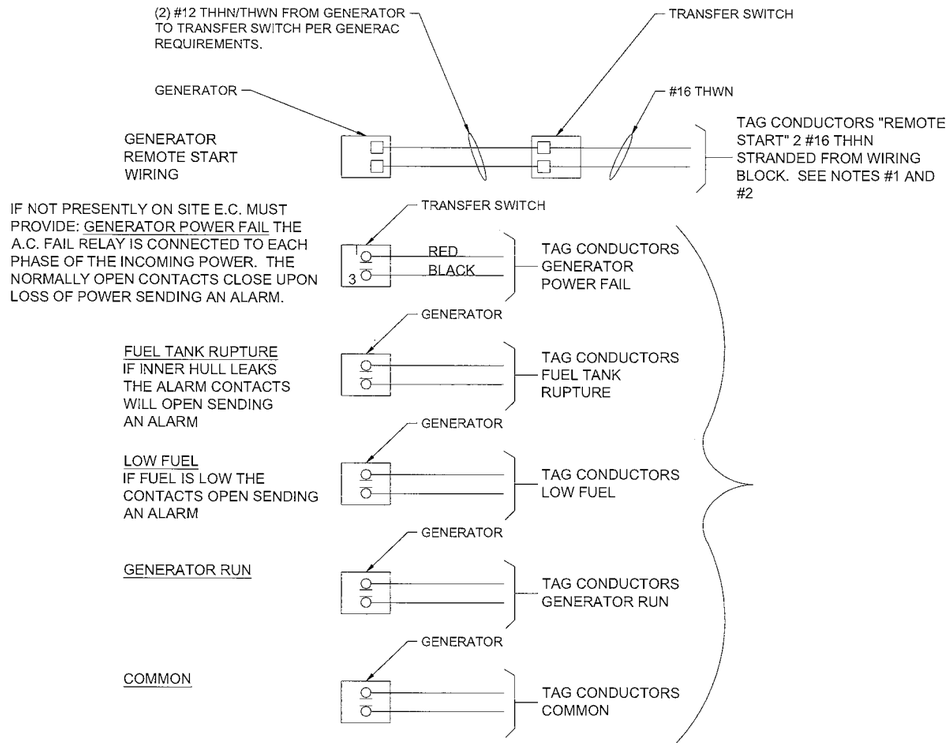
PROJECT TITLE:
DOCPARK_MCR
5000974975

PROJECT INFORMATION:
7200 N SANTA MONICA BLVD
VILLAGE OF FOX POINT, WI 53217
MILWAUKEE COUNTY

SHEET TITLE:
GENERATOR UTILITY ROUTING PLAN

0 1.875' 3.75' 7.5'
11" x 17" - 1" = 3.75'
22" x 34" - 1" = 1.875'

PROJECT NUMBER: 62656
SHEET NUMBER: E-1B



ALARM WIRING (1)
SCALE: NTS

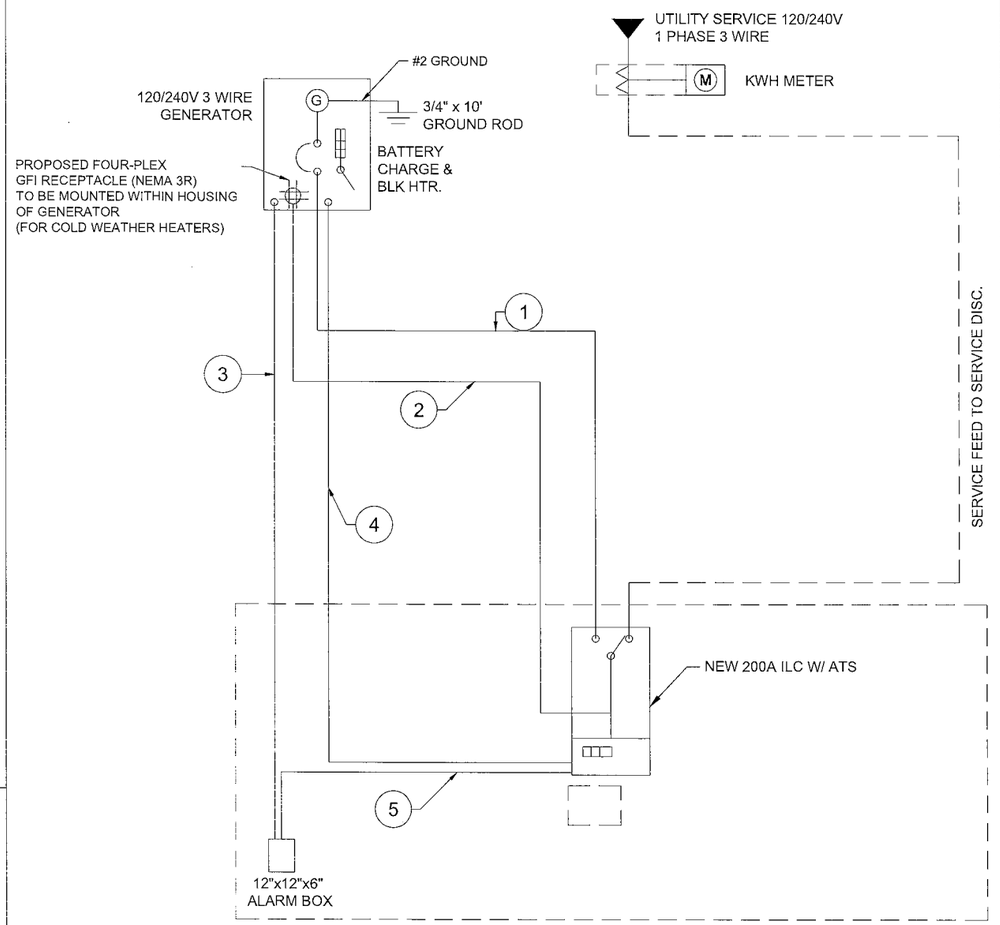
NOTES:

1) E.C. TO PULL A #16 AWG SOLID RED AND A #16 AWG SOLID BLACK FROM THE TRANSFER SWITCH TO ALARM WIRING BLOCK FOR REMOTE START.
2) E.C. TO PULL ALL ALARM LEADS TO EXISTING ALARM WIRING BLOCK. LEAVE A MINIMUM OF 24" PIGTAILS AT ALARM WIRING BLOCK AND TAG CONDUCTORS AS INDICATED, TERMINATIONS ON ALARM POINT WIRING BLOCK BY OTHERS. CONDUCTORS CAN BE RUN EXPOSED. THEY SHALL BE NEATLY BUNDLED USING NYLON TIES AND SUPPORTED AT 2'-0" INTERVALS FOR A NEAT INSTALLATION.

KEY

1. (3) #3/0 & (1) #2 GND IN 2-1/2" C
2. (4) #12 & (1) #12 GND IN 1" C (SEE NOTE)
3. (2) CAT-5 BELDEN IN 1" C FROM GENERATOR TO ALARM BOX. LEAVE 25' SPOOLED IN ALARM BOX
4. (2) #12 THWN IN 3/4" C
5. (2) #16 THWN. LEAVE 25' OF #16 IN ALARM BOX

NOTE:
E.C. TO PROVIDE (2) 20A 1-POLE CIRCUIT BREAKERS FOR BATTERY CHARGER AND JACKET HEATER



NEW SINGLE LINE DIAGRAM (2)
SCALE: NTS

CELLCO PARTNERSHIP d/b/a VERIZON WIRELESS

RAMAKER
employee-owned
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Certification # Seal:

MARK	DATE	DESCRIPTION
A	11/13/25	PRELIM CDs ISSUED

ISSUE PHASE: PRELIMINARY
DATE ISSUED: 11/10/2025

PROJECT TITLE:
DOCPARK_MCR
5000974975

PROJECT INFORMATION:
7200 N SANTA MONICA BLVD
VILLAGE OF FOX POINT, WI 53217
MILWAUKEE COUNTY

SHEET TITLE:
GENERATOR SINGLE LINE DIAGRAM & ALARM WIRING

SCALE: NONE

PROJECT NUMBER: 62656
SHEET NUMBER: E-1C

POLYMER CONCRETE BOXES

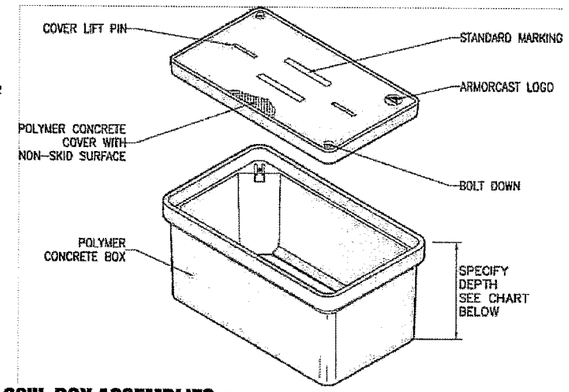
17" x 30" BOX ASSEMBLY

12" to 30" DEPTHS

POLYMER CONCRETE ARMORCAST PRODUCTS COMPANY

A6001640

UL LISTED
FILE #E364252



17"W x 30"L BOX ASSEMBLIES Specify Depth Below

DESCRIPTION	NOMINAL SIZE W x L x D	LOAD RATING	ANSI TIER	PART NUMBER	APPROX. WEIGHT	PALLET QTY.
Box & Cover Assembly	17" x 30" x 12"	10K	8	A6001640APCX12	114 lbs.	12
	17" x 30" x 12"	20K	15 / 22	A6001640TAPCX12 / A6001640HDAPCX12	140 lbs.	12
Box & Cover Assembly	17" x 30" x 18"	10K	8	A6001640APCX18	140 lbs.	6
	17" x 30" x 18"	20K	15 / 22	A6001640TAPCX18 / A6001640HDAPCX18	165 lbs.	6
Box & Cover Assembly	17" x 30" x 22"	10K	8	A6001640APCX22	154 lbs.	6
	17" x 30" x 22"	20K	15 / 22	A6001640TAPCX22 / A6001640HDAPCX22	180 lbs.	6
Box & Cover Assembly	17" x 30" x 24"	10K	8	A6001640APCX24	165 lbs.	6
	17" x 30" x 24"	20K	15 / 22	A6001640TAPCX24 / A6001640HDAPCX24	190 lbs.	6
Box & Cover Assembly	17" x 30" x 28"	10K	8	A6001640APCX28	184 lbs.	3
	17" x 30" x 28"	20K	15 / 22	A6001640TAPCX28 / A6001640HDAPCX28	210 lbs.	3
Box & Cover Assembly	17" x 30" x 30"	10K	8	A6001640APCX30	191 lbs.	3
	17" x 30" x 30"	20K	15 / 22	A6001640TAPCX30 / A6001640HDAPCX30	221 lbs.	3

COMPONENTS

MORE COVER VARIATIONS ARE AVAILABLE IN OUR "COVER SECTION"

DESCRIPTION	NOMINAL SIZE W x L x D	LOAD RATING	ANSI TIER	PART NUMBER	APPROX. WEIGHT	PALLET QTY.
Replacement Covers	17" x 30"	10K	8	A6001643	44 lbs.	30
	17" x 30"	20K	15 / 22	A6001947T / A6001947HD	70 lbs.	30
Replacement Boxes	17" x 30" x 12"	10K / 20K	22	A6001640PCX12	70 lbs.	12
	17" x 30" x 18"	10K / 20K	22	A6001640PCX18	96 lbs.	6
	17" x 30" x 22"	10K / 20K	22	A6001640PCX22	110 lbs.	6
	17" x 30" x 24"	10K / 20K	22	A6001640PCX24	121 lbs.	6
	17" x 30" x 28"	10K / 20K	22	A6001640PCX28	140 lbs.	3
	17" x 30" x 30"	10K / 20K	22	A6001640PCX30	151 lbs.	3

- Boxes are Open Bottom and Stackable, also available with Solid Bottoms.
- For sizes not shown please contact Armorcast Products for more information.

THIS PRODUCT IS LISTED TO APPLICABLE UL STANDARDS AND REQUIRMENTS BY UL.

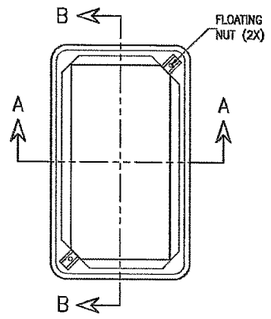
17" x 30" BOX ASSEMBLY

STANDARD DIMENSIONS

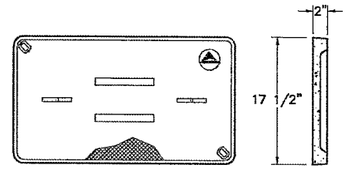
ARMORCAST PRODUCTS COMPANY **POLYMER CONCRETE**

A6001640

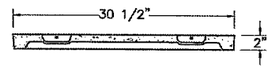
UL LISTED
FILE #E364252

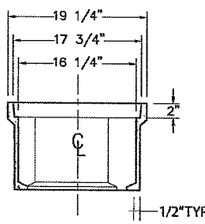


PLAN VIEW

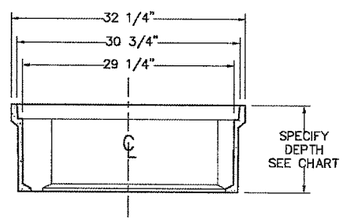


POLYMER CONCRETE COVER





SECTION A–A



SECTION B–B

Armorcast Products Company reserves the right to update or discontinue product information at any time without notice.

THIS PRODUCT IS LISTED TO APPLICABLE UL STANDARDS AND REQUIRMENTS BY UL.

POLYMER CONCRETE BOXES

VAULT SPECIFICATIONS (1)
SCALE: NONE

CELLCO PARTNERSHIP
d/b/a VERIZON WIRELESS

RAMAKER
employee-owned
(608) 643-4100 www.ramaker.com

Certification # Seal

MARK	DATE	DESCRIPTION
A	11/13/25	PRELIM CDs ISSUED

ISSUE PHASE: PRELIMINARY DATE ISSUED: 11/10/2025

PROJECT TITLE:
DOCPARK_MCR
5000974975

PROJECT INFORMATION:
7200 N SANTA MONICA BLVD
VILLAGE OF FOX POINT, WI 53217
MILWAUKEE COUNTY

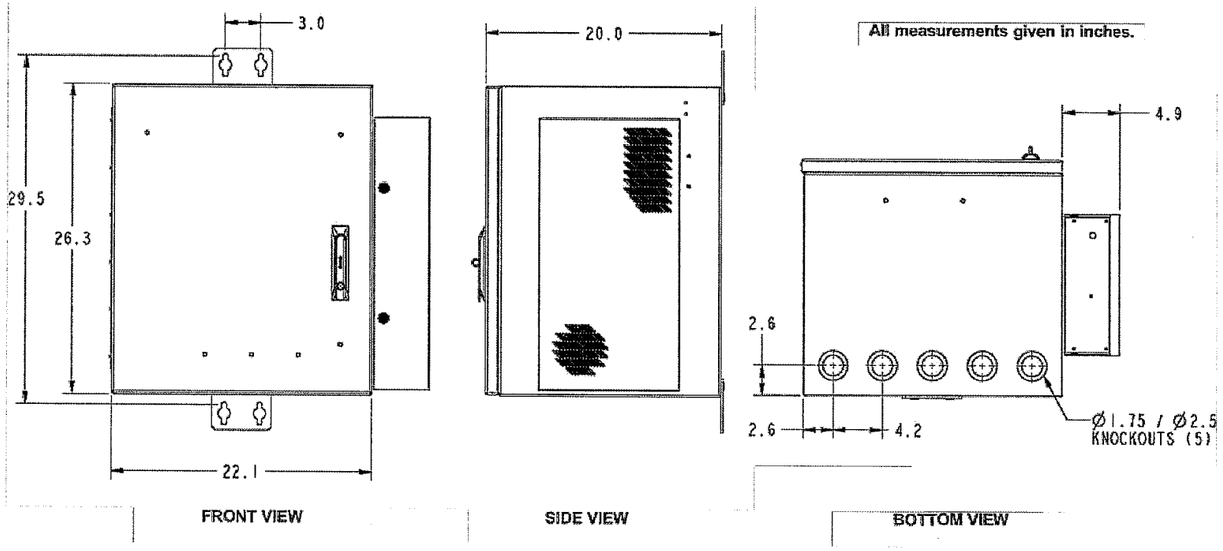
SHEET TITLE:
VAULT SPEC SHEET

SCALE: NONE

PROJECT NUMBER: 62656
SHEET NUMBER: E-1D

Charles Universal Broadband Enclosures (CUBE)
RL1000 Series Backhaul Cabinets

All measurements given in inches.



FRONT VIEW | SIDE VIEW | BOTTOM VIEW

CUBE Accessories	CI Part #
Pole Mount Kit	97-CABPMTKIT
H-Frame Hardware Kit	97-001971-A
Slide-Out Tray	97-001990-A
10" Plinth Kit	97-002127-A

OG-OSP021-K16

INNOVATIVE ENCLOSED SOLUTIONS™	Charles Industries, Ltd.	Phone: (847) 806-6300 Fax: (847) 806-6231 Web: www.charlesindustries.com	Charles

OVERALL DIMENSION	26"H X 22"W X 20"D
RACK SPACE	14RU
RACK WIDTH	19" EIA STANDARD
HOLE SPACING ON RACKS	1" TAPPED 12-24
BONDING & GROUNDING	(1) 8 POSITION, 2-HOLE GROUND BARS
FUSE PANEL	(1) WALLMOUNT 10 POSITION GMT TYPE
CABLE ENTRANCE	(5) 1.75/2.5" DOUBLE KNOCKOUTS
COLOR	OFF-WHITE
CONSTRUCTION	WELDED ALUMINUM
WEIGHT (EMPTY)	80 LBS.
MOUNTING	WALL OR H-FRAME, POLE MOUNT WITH OPTIONAL KIT
THERMAL MANAGEMENT	17 W/°F HEAT EXCHANGER, 24 VDC POWER
MANUFACTURER	CHARLES INDUSTRIES
MODEL	CUBE-RL1003
DIMENSIONS	26.3" X 22.1" X 20.0" (H X W X D)
ACCESSORIES:	
POLE MOUNT KIT	97-CABPMKIT
H-FRAME HARDWARE KIT	97-001971-A
SLIDE OUT TRAY	97-001991-A
10" PLINTH KIT	97-002127-A

CELLCO PARTNERSHIP
d/b/a VERIZON WIRELESS

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Certification & Seal:

MARK	DATE	DESCRIPTION
A	11/13/25	PRELIM CDs ISSUED

ISSUE PHASE: PRELIMINARY
DATE ISSUED: 11/10/2025

PROJECT TITLE:
DOCPARK_MCR
5000974975

PROJECT INFORMATION:
7200 N SANTA MONICA BLVD
VILLAGE OF FOX POINT, WI 53217
MILWAUKEE COUNTY

SHEET TITLE:
VAULT SPEC SHEET

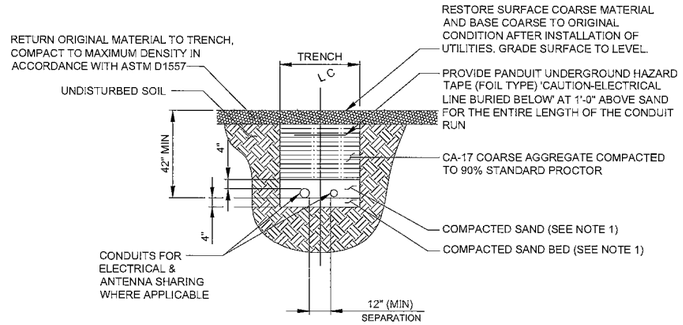
SCALE: NONE

PROJECT NUMBER: 62656
SHEET NUMBER: E-1E

DRAWN BY: ISA CHECKED BY: MJR

NOTES:

1. LEAN CONCRETE, RED-COLORED TOP, MAY BE USED IN PLACE OF COMPACTED SAND.
2. BURY CONDUITS 42" BELOW GRADE OR 6" BELOW FROST LINE, WHICHEVER IS GREATER
3. CONDUIT SIZE, TYPE, QUANTITY AND SEPARATION DIMENSION TO BE VERIFIED WITH LOCAL UTILITY COMPANY REQUIREMENTS.



1 UTILITY TRENCH DETAIL
SCALE: N.T.S.

NOTE:
ALL CONDUIT TO BE SCH 40 PVC (OR SCH 80 PVC IN AREAS UNDER VEHICLE TRAFFIC)

VERIZON WIRELESS PANEL "A" SCHEDULE

MAIN: 200 VOLTAGE: 120/240 PHASE: 1 WIRE: 3

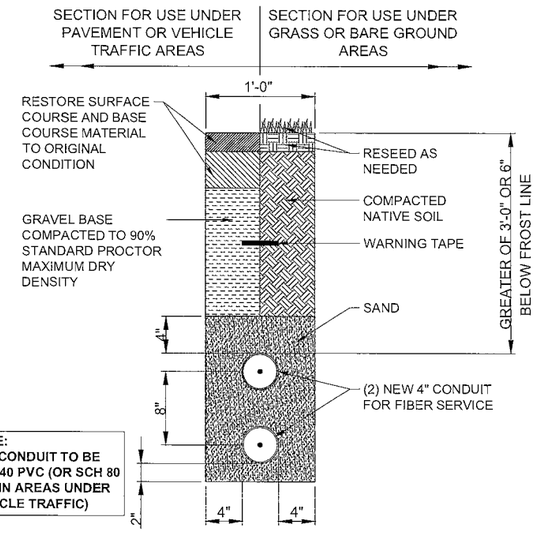
TO AUTOMATIC TRANSFER SWITCH — 200A/2

DESCRIPTION	BRKR.	WATTS	S/C	A	B	S/N	WATTS	BRKR.	DESCRIPTION
RECTIFIER 1	40/2	1250	1			2	1250	40/2	RECTIFIER 5
		1250	3			4	1250		
RECTIFIER 2	40/2	1250	5			6	1250	40/2	RECTIFIER 6
		1250	7			8	1250		
RECTIFIER 3	40/2	1250	9			10	1250	40/2	RECTIFIER 7
		1250	11			12	1250		
RECTIFIER 4	40/2	1250	13			14	1250	40/2	RECTIFIER 8
		1250	15			16	1250		
SPACE			17			18		20/1	SPARE
SPACE			19			20		20/1	SPARE
SPACE			21			22			SPACE
SPACE			23			24			SPACE
SPACE			25			26			SPACE
SPACE			27			28			SPACE
SPACE			29			30			SPACE
SPACE			31			32			SPACE
SPACE			33			34			SPACE
SPACE			35			36			SPACE
LIGHTS	20/1		37			38	360	20/1	GFCI RECEPTACLE *
SMOKE DETECTORS	20/1		39			40	1200	20/1	EQUIPMENT
EMERG LIGHTS/ EQUIP	20/1		41			42	1000	20/1	GEN. GFCI RECEPTACLE *
			SURGE ARRESTOR						
SUBTOTALS:		6000 5000					6360 6200		
TOTAL:							23.56kW (98.2A)		

SURFACE MOUNTED NEMA 3R w/ DOOR
22K AIC BREAKERS
(CONTRACTOR SHALL VERIFY AIC RATINGS W/ LOCAL POWER CO.)

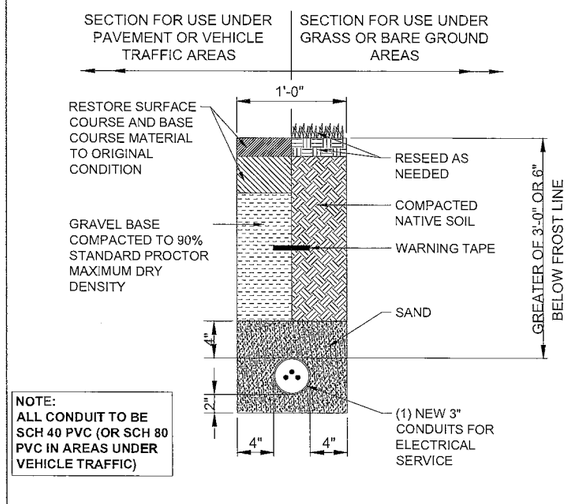
2 PANEL BOARD SCHEDULE
N.T.S.

NOTE:
1. VERIZON WIRELESS EQUIPMENT ENGINEERING TO SUPPLY BREAKER FOR RADIO AND POWER CABINETS
2. GENERAL CONTRACTOR TO SUPPLY BREAKERS NOTED WITH " * "



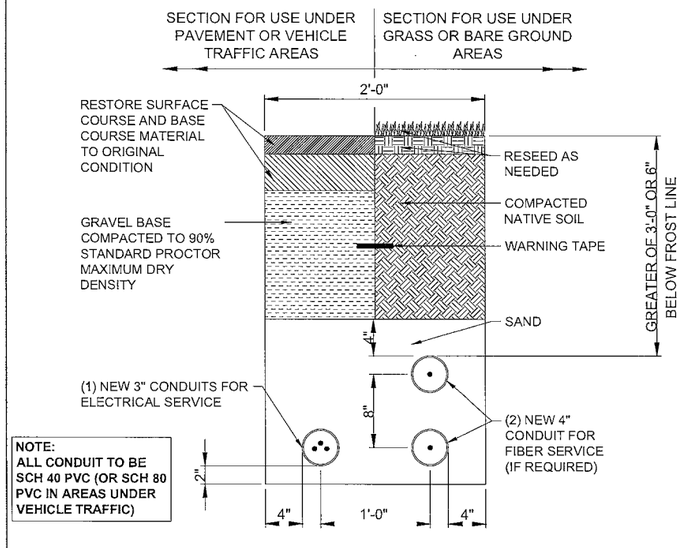
NOTE:
ALL CONDUIT TO BE SCH 40 PVC (OR SCH 80 PVC IN AREAS UNDER VEHICLE TRAFFIC)

FIBER TRENCH DETAIL (IF REQUIRED)
SCALE: NTS — 2



NOTE:
ALL CONDUIT TO BE SCH 40 PVC (OR SCH 80 PVC IN AREAS UNDER VEHICLE TRAFFIC)

ELECTRICAL TRENCH DETAIL
SCALE: NTS — 3



NOTE:
ALL CONDUIT TO BE SCH 40 PVC (OR SCH 80 PVC IN AREAS UNDER VEHICLE TRAFFIC)

JOINT UTILITY TRENCH DETAIL
SCALE: NTS — 4

CELLCO PARTNERSHIP
d/b/a VERIZON WIRELESS

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Certification & Seal:

MARK	DATE	DESCRIPTION
A	11/13/25	PRELIM CDs ISSUED

ISSUE PHASE: PRELIMINARY — DATE ISSUED: 11/10/2025

PROJECT TITLE:
DOCPARK_MCR
5000974975

PROJECT INFORMATION:
7200 N SANTA MONICA BLVD
VILLAGE OF FOX POINT, WI 53217
MILWAUKEE COUNTY

SHEET TITLE:
ELECTRICAL DETAILS

SCALE: NONE

PROJECT NUMBER: 62656
SHEET NUMBER: E-2

DRAWN BY: ISA CHECKED BY: MJR

ELECTRICAL INSTALLATION NOTES

1. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS THE NATIONAL ELECTRICAL CODE (N.E.C.), AND ALL APPLICABLE LOCAL CODES.
2. WIRING RACEWAY AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE N.E.C.
3. ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE N.E.C.
4. CABLES SHALL NOT BE ROUTED THROUGH LADDER CABLE TRAY RUNGS.
5. EACH END OF EVERY POWER PHASE CONDUCTOR (I.E., HOTS), GROUNDING, AND T1 CONDUCTOR AND CABLE SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2 INCH PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH N.E.C. & OSHA
6. ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH PLASTIC TAPE PER COLOR SCHEDULE, ALL EQUIPMENT SHALL BE LABELED WITH THEIR VOLTAGE RATING, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING, AND BRANCH CIRCUIT ID NUMBERS (I.E. PANEL BOARD AND CIRCUIT ID'S).
7. PANEL BOARDS (ID NUMBERS) AND INTERNAL CIRCUIT BREAKERS (CIRCUIT ID NUMBERS) SHALL BE CLEARLY LABELED WITH PLASTIC LABELS.
8. ALL TIE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES.
9. POWER, CONTROL, AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE CONDUCTOR (#14 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90° C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE SPECIFIED.
10. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE CONDUCTOR (#6 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2 GREEN INSULATION, CLASS B STRANDED COPPER CABLE RATED FOR 90° C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE NOTED.
11. POWER AND CONTROL WIRING, NOT IN TUBING OR CONDUIT, SHALL BE MULTI-CONDUCTOR, TYPE TC CABLE (#14 AWG OR LARGER) 600 V, OIL RESISTANT THHN OR THHN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90° C (WET AND DRY) OPERATION; WITH OUTER JACKET; LISTED OR LABELED FOR LOCATION USED,UNLESS OTHERWISE SPECIFIED.
12. ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP-STYLE, COMPRESSION WIRE LUGS AND WIRENUTS BY THOMAS AND BETTS (OR EQUAL). LUGS AND WIRENUTS SHALL BE RATED FOR OPERATION AT NO LESS THAN 75°C (90°C IF AVAILABLE)
13. RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE, AND N.E.C.
14. ELECTRICAL METALLIC TUBING (EMT) OR RIGID NONMETALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 40, OR RIGID PVC SCHEDULE 80 FOR LOCATIONS SUBJECT TO PHYSICAL DAMAGE) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.
15. ELECTRICAL METALLIC TUBING (EMT), ELECTRICAL NONMETALLIC TUBING (ENT), OR RIGID NONMETALLIC CONDUIT (RIGID PVC, SCHEDULE 40) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.
16. GALVANIZED STEEL INTERMEDIATE METALLIC CONDUIT (IMC) SHALL BE USED FOR OUTDOOR LOCATIONS ABOVE GRADE.
17. RIGID NONMETALLIC CONDUIT(I.E., RIGID PVC SCHEDULE 40 OR RIGID PVC SCHEDULE 80) SHALL BE USED UNDERGROUND; DIRECT BURIED; IN AREAS OF OCCASIONAL LIGHT VEHICLE TRAFFIC OR ENCASED IN REINFORCED CONCRETE IN AREAS OF HEAVY VEHICLE TRAFFIC.
18. LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.
19. CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED. SETSCREWS FITTINGS ARE NOT ACCEPTABLE.
20. CABINETS, BOXES AND WIREWAYS SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE, AND N.E.C.
21. WIREWAYS SHALL BE EPOXY-COATED (GRAY) AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARD; SHALL BE PANDUIT TYPE E (OR EQUAL) AND RATED NEMA 1 (OR BETTER).
22. EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES, AND PULL BOXES SHALL BE GALVANIZED OR EPOXY-COATED SHEET STEEL, SHALL MEET OR EXCEED UL 50, AND RATED NEMA 1(OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS
23. METAL RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY-COATED; OR NON-CORRODING; SHALL MEET OR EXCEED UL 514A AND NEMA OS 1; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
24. NONMETALLIC RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
25. THE SUBCONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CONTRACTOR BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.
26. THE SUBCONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD AGAINST LIFE AND PROPERTY

GROUNDING NOTES

1. ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION, AND AC POWER GES'S) SHALL BE BONDED TOGETHER BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE N.E.C.
2. THE SUBCONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR GROUND ELECTRODE SYSTEMS. THE SUBCONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.
3. THE SUBCONTRACTOR IS RESPONSIBLE FOR PROPERLY SEQUENCING GROUNDING AND UNDERGROUND CONDUIT INSTALLATION AS TO PREVENT ANY LOSS OF CONTINUITY IN THE GROUNDING SYSTEM OR DAMAGE TO THE CONDUIT & PROVIDE TESTING RESULTS.
4. METAL CONDUIT AND TRAY SHALL BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH #6 AWG COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.
5. METAL RACEWAY SHALL NOT BE USED AS THE N.E.C. REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE N.E.C., SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPMENT.
6. CONNECTIONS TO THE GROUND BUS SHALL NOT BE DOUBLED UP OR STACKED. BACK TO BACK CONNECTIONS ON OPPOSITE SIDES OF THE GROUND BUS ARE PERMITTED.
7. ALL EXTERIOR GROUND CONDUCTORS BETWEEN EQUIPMENT/GROUND BARS AND THE GROUND RING SHALL BE #2 AWG SOLID TINNED COPPER UNLESS OTHERWISE INDICATED.
8. ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
9. USE OF 90° BENDS IN THE PROTECTION GROUNDING CONDUCTORS SHALL BE AVOIDED WHEN 45° BENDS CAN BE ADEQUATELY SUPPORTED.
10. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
11. ALL GROUND CONNECTIONS ABOVE GRADE (INTERIOR & EXTERIOR) SHALL BE FORMED USING HIGH PRESS CRIMPS.
12. COMPRESSION GROUND CONNECTIONS MAY BE REPLACED BY EXOTHERMIC WELD CONNECTIONS.
13. ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO THE BRIDGE AND THE TOWER GROUND BAR.
14. APPROVED ANTIOXIDANT COATINGS (I.E., CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS, IF REQUIRED BY EQUIPMENT INSTALLATION INSTRUCTIONS (NEC 110-3 (B)).
15. ALL EXTERIOR GROUND CONNECTIONS SHALL BE COATED WITH A CORROSION RESISTANT MATERIAL.
16. MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TOT HE GROUND RING, IN ACCORDANCE WITH THE N.E.C.
17. BOND ALL METALLIC OBJECTS WITHIN 6 FT. OF MAIN GROUND WIRES WITH (1) #2 AWG TIN-PLATED COPPER GROUND CONDUCTOR.
18. GROUND CONDUCTORS USED IN THE FACILITY GROUND AND LIGHTNING PROTECTION SYSTEMS SHALL NOT BE ROUTED THROUGH METALLIC OBJECTS THAT FORM A RING AROUND THE CONDUCTOR, SUCH AS METALLIC CONDUITS, METAL SUPPORT CLIPS OR SLEEVES THROUGH WALLS OR FLOORS. WHEN IT IS REQUIRED TO BE HOUSED IN CONDUIT TO MEET CODE REQUIREMENTS OR LOCAL CONDITIONS, NON-METALLIC MATERIAL SUCH AS PVC PLASTIC CONDUIT SHALL BE SUED. WHERE USE OF METAL CONDUIT IS UNAVOIDABLE (E.G., NON-METALLIC CONDUIT PROHIBITED BY LOCAL CODE) THE GROUND CONDUCTOR SHALL BE BONDED TO EACH END OF THE METAL CONDUIT.

CELLCO PARTNERSHIP
d/b/a VERIZON WIRELESS

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Certification # Seal:

MARK	DATE	DESCRIPTION
A	11/13/25	PRELIM CDs ISSUED

ISSUE PHASE: PRELIMINARY
DATE ISSUED: 11/10/2025

PROJECT TITLE:
DOCPARK_MCR
5000974975

PROJECT INFORMATION:
7200 N SANTA MONICA BLVD
VILLAGE OF FOX POINT, WI 53217
MILWAUKEE COUNTY

SHEET TITLE:
ELECTRICAL & GROUNDING NOTES

SCALE: NONE

PROJECT NUMBER: 62656
SHEET NUMBER: E-3

DRAWN BY: ISA CHECKED BY: MJR

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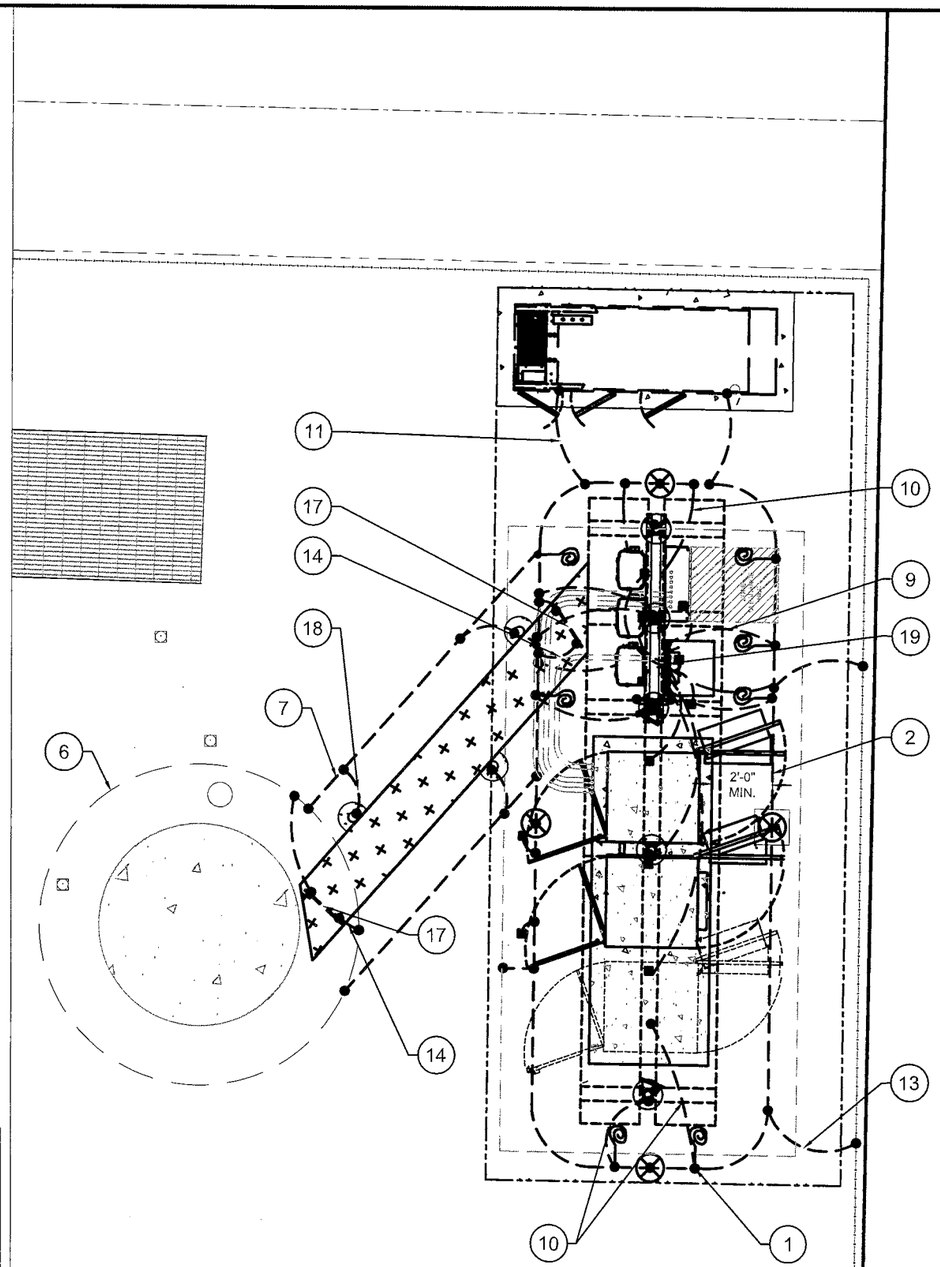
TYPICAL KEYED GROUNDING NOTES

1. #2 AWG TNND SOLID BARE COPPER CONDUCTOR 42" BELOW GRADE (TYPICAL) MINIMUM 24" BENDING RADIUS (BY VERIZON WIRELESS)
2. MAINTAIN TWO FOOT DISTANCE OFF OF STRUCTURES. (BY VERIZON WIRELESS)
3. 5/8" x 10' COPPER CLAD GROUND ROD (BY VERIZON WIRELESS)
4. 5/8"Ø 10' LONG COPPERCLAD GROUND ROD WITH INSPECTION WELL, TOP OF GROUND ROD MAX 24" BURY (BY VERIZON WIRELESS)
5. PROPOSED COMPOUND GROUND RING (BY VERIZON WIRELESS)
6. PROPOSED TOWER GROUND RING (BY VERIZON WIRELESS)
7. BOND TOWER GROUND RING TO PROPOSED PLATFORM/ PAD GROUND RING WITH #2 AWG TNND SOLID COPPER CONDUCTOR IN 2 LOCATIONS. (BY VERIZON WIRELESS)
8. PROVIDE AN EXTERNAL #2 TNN COATED GROUND LEAD FROM GROUND RING TO ALL METAL CABINETS ON UTILITY BACKBOARD (TELCO,ELEXTRIC,BREAKER PANELS, METER RACKS, JUNCTION BOXES, ETC.) SLEEVED IN CONDUIT FROM JUST BELOW GRADE TO SAND CABINETS USING BURNDY TYPE 2 LONG BARREL LUGS WITH NO-OK OR COPPER SHIELD (BY VERIZON WIRELESS)
9. TWO #2 LEADS FROM THE EGR TO THE GROUND BAR AT UTILITY FRAME LOCATED ON PLATFORM/PAD STEEL. CADWELD AT EGR AND DOUBLE HOLE LUGS ON PLATFORM/PAD. (BY VERIZON WIRELESS)
10. # 2 LEADS FROM THE EGR TO PLATFORM/ PAD CORNER POST, STEEL COLUMN, STEEL BEAM, ICE BRIDGE POST & CANOPY GROUND (BY VERIZON WIRELESS)
11. EXTEND GROUND CONDUCTORS IN 1/2" RIGID H.W. CONDUIT ADJACENT TO PAD, OFFSET AND ATTACH TO EXTERIOR OF GENERATOR HOUSING AND EXTEND TO GROUND LUGS AS REQUIRED, VERIFY LOCATION WITH GENERAC. (BY VERIZON WIRELESS)
12. VZW DISCONNECT AND ELECTRIC SERVICE GROUND TO GROUND ROD (BY VERIZON WIRELESS)
13. GROUND CHAIN LINK FENCE (TYPICAL) EXOTHERMIC CONNECTION. GROUND FENCE POST WITHIN 6 FEET OF EQUIPMENT (BY VERIZON WIRELESS)
14. EXOTHERMICALLY WELD COPPER GROUND BAR TAIL TO HALO GROUND RING (EXOTHERMIC CONNECTION TYPE TA) BY ANTENNA CONTRACTOR. FINAL CONNECTION (BY VERIZON WIRELESS G.C.)
15. CABINET GROUND BOLTED TO UNIT HOUSING (BY VERIZON WIRELESS G.C.)
16. GROUND COAXIAL ANTENNA CABLES TO GROUND BAR BY ANTENNA CONTRACTOR TERMINATE CABLES 1'-0" FROM PLATFORM AND INSTALL LIGHTNING SURGE ARRESTORS ON EACH CABLE GROUND. (BY VERIZON WIRELESS G.C.)
17. 4"X20"X1/4" TNND INSULATED COPPER GROUND BAR, NON ISOLATED WITH 10.0' LONG #2 AWG TNND SOLID COPPER WIRE WELDED TAILS (HARGER GBIT 14420VW) (BY VERIZON WIRELESS G.C.)
18. GROUND CABLE WAVEGUIDE BRIDGE (TYP.) (BY VERIZON WIRELESS)
19. MGB MOUNTED ON UTILITY FRAME (BY VERIZON WIRELESS)
20. ALL GROUNDING CONNECTIONS TO VERIZON WIRELESS EQUIPMENT BY VERIZON WIRELESS G.C.

THE LOCATION, SIZE AND TYPE OF MATERIAL OF EXISTING UTILITIES INDICATED ON THE PLANS IS NOT REPRESENTED AS BEING ACCURATE, SUFFICIENT OR COMPLETE, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES, INCLUDING THE SERVICE CONNECTIONS TO UNDERGROUND UTILITIES. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES DETAILED INFORMATION AND ASSISTANCE RELATIVE TO THE LOCATION OF THEIR FACILITIES AND THE WORKING SCHEDULE OF THE COMPANIES FOR REMOVAL OR ADJUSTMENT WHERE REQUIRED. IN THE EVENT AN UNEXPECTED UTILITY INTERFERENCE IS ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE UTILITY COMPANY OF JURISDICTION. THE ENGINEER SHALL ALSO BE IMMEDIATELY NOTIFIED.

SYMBOLS LEGEND

- GROUND ROD WITH ACCESS
- GROUND ROD
- EXOTHERMIC CONNECTION
- GROUND BAR OR ARRESTOR BAR
- MECHANICAL CONNECTION
- GROUND BAR
- VERIZON WIRELESS GROUNDING
- VERIZON GROUNDING



SITE GROUNDING PLAN (1)
SCALE: 1" = 5'

NORTH

CELLCO PARTNERSHIP
d/b/a VERIZON WIRELESS

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A	11/13/25	PRELIM CDs ISSUED

ISSUE PHASE: PRELIMINARY
DATE ISSUED: 11/10/2025

PROJECT TITLE:
DOCPARK_MCR
5000974975

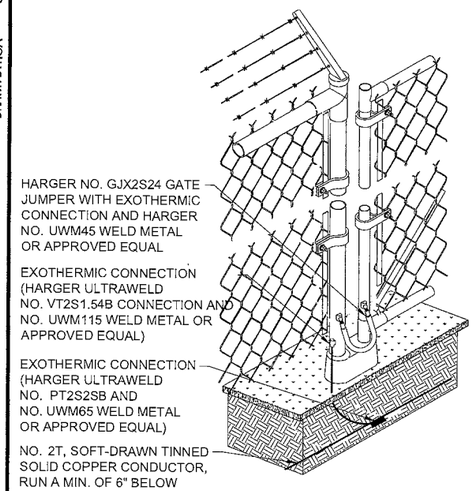
PROJECT INFORMATION:
7200 N SANTA MONICA BLVD
VILLAGE OF FOX POINT, WI 53217
MILWAUKEE COUNTY

SHEET TITLE:
SITE GROUNDING PLAN

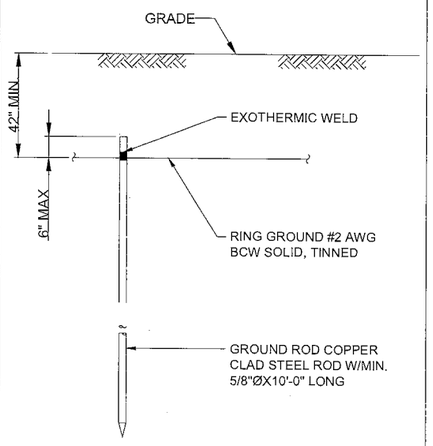
0 2.5' 5' 10'
11" x 17" - 1" = 5'
22" x 34" - 1" = 2.5'

PROJECT NUMBER: 62656
SHEET NUMBER: E-4

DRAWN BY: ISA CHECKED BY: MJR

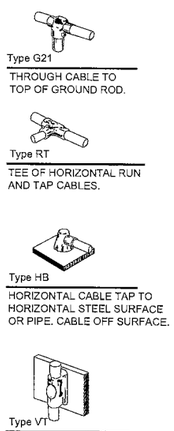


FENCE GROUNDING DETAIL (1)
SCALE: NTS



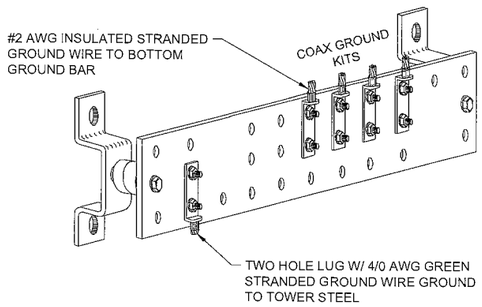
NOTE:
GROUND ROD SHALL BE DRIVEN VERTICALLY, NOT TO EXCEED 45 DEGREES FROM THE VERTICAL.

GROUND ROD DETAIL (2)
SCALE: NTS

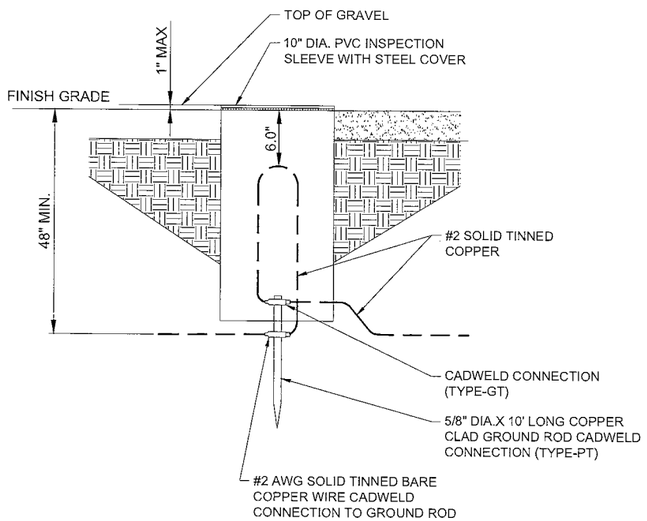


EXOTHERMIC WELD DETAIL (3)
SCALE: NTS

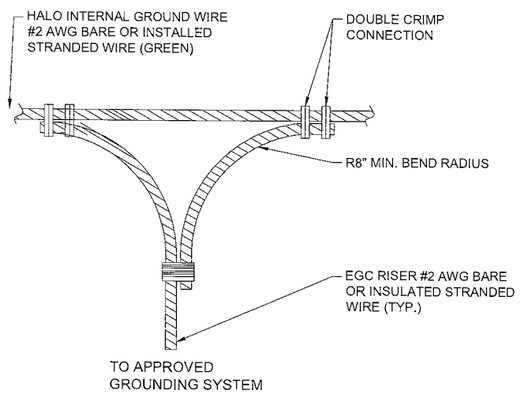
NOTES:
1. PROPOSED HARGER 2x14.5" GROUND BAR (PN/ TGBR14214.5VER) MOUNT DIRECTLY TO TOWER STEEL.
2. INSULATORS TO BE NEWTON CAT. NO. 3015-8 OR APPROVED EQUAL
3. 5/8" LOCK WASHERS; NEWTON CAT. NO. A-6056 OR APPROVED EQUAL
4. 5/8" - 11 X 1" M.M.C.S. BOLTS; NEWTON CAT. NO. 3012-1 OR APPROVED EQUAL
5. COAT ALL SURFACES WITH 'KOPER SHIELD' BEFORE MATING
6. ALL HARDWARE TO BE STAINLESS STEEL UNLESS OTHERWISE NOTED
7. NUTS TO FACE OUT



GROUND COLLECTOR BAR (4)
SCALE: NTS

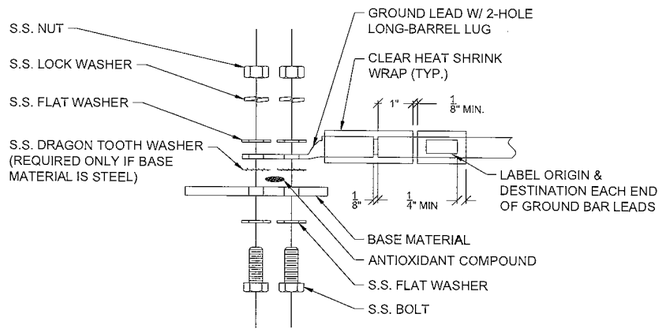


INSPECTION SLEEVE DETAIL (5)
SCALE: NTS



HALO NON-DIRECTIONAL GROUND RING SPLICE DETAIL (6)
SCALE: NTS

NOTES:
1. ALL HARDWARE 18-8 STAINLESS STEEL INCLUDING BELLEVILLES. COAT ALL SURFACES WITH KOPR-SHIELD BEFORE MATING.
2. FOR GROUND BOND TO STEEL ONLY: INSERT A DRAGON TOOTH WASHER BETWEEN LUG AND STEEL, COAT ALL SURFACES WITH KOPR-SHIELD.
3. GROUND BARS, INSTALL BOLT HEAD TOWARD WALL
4. ENCLOSURES, INSTALL BOLT HEAD ON OUTSIDE OF ENCLOSURE



GROUND LIG INSTALLATION DETAIL (7)
SCALE: NTS

CELLCO PARTNERSHIP d/b/a VERIZON WIRELESS

RAMAKER
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Certification # Seal:

MARK	DATE	DESCRIPTION
A	11/13/25	PRELIM CDs ISSUED

ISSUE PHASE: PRELIMINARY
DATE ISSUED: 11/10/2025

PROJECT TITLE:
DOCPARK_MCR
5000974975

PROJECT INFORMATION:
7200 N SANTA MONICA BLVD
VILLAGE OF FOX POINT, WI 53217
MILWAUKEE COUNTY

SHEET TITLE:
GROUNDING DETAILS

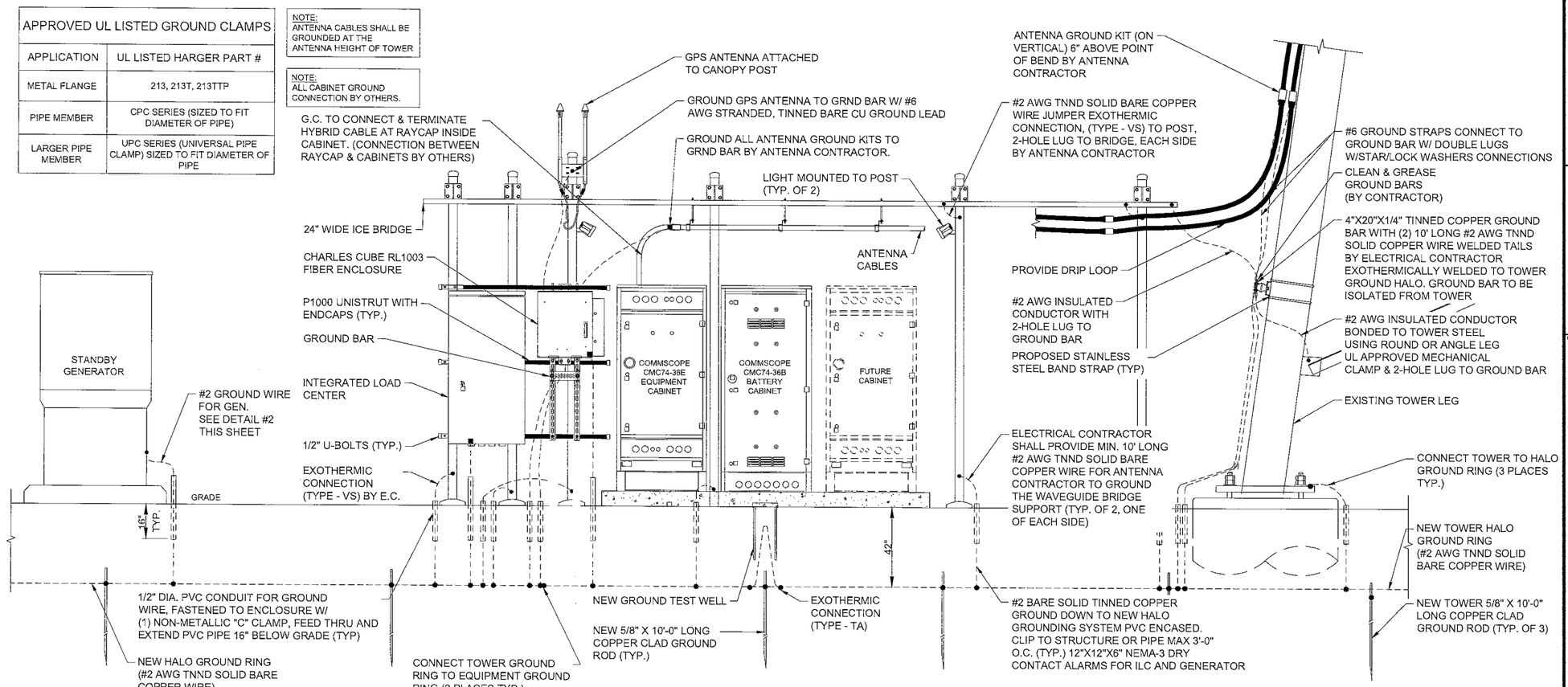
SCALE: NONE

PROJECT NUMBER: 62656
SHEET NUMBER: E-5

APPROVED UL LISTED GROUND CLAMPS	
APPLICATION	UL LISTED HARGER PART #
METAL FLANGE	213, 213T, 213TTP
PIPE MEMBER	CPC SERIES (SIZED TO FIT DIAMETER OF PIPE)
LARGER PIPE MEMBER	UPC SERIES (UNIVERSAL PIPE CLAMP) SIZED TO FIT DIAMETER OF PIPE

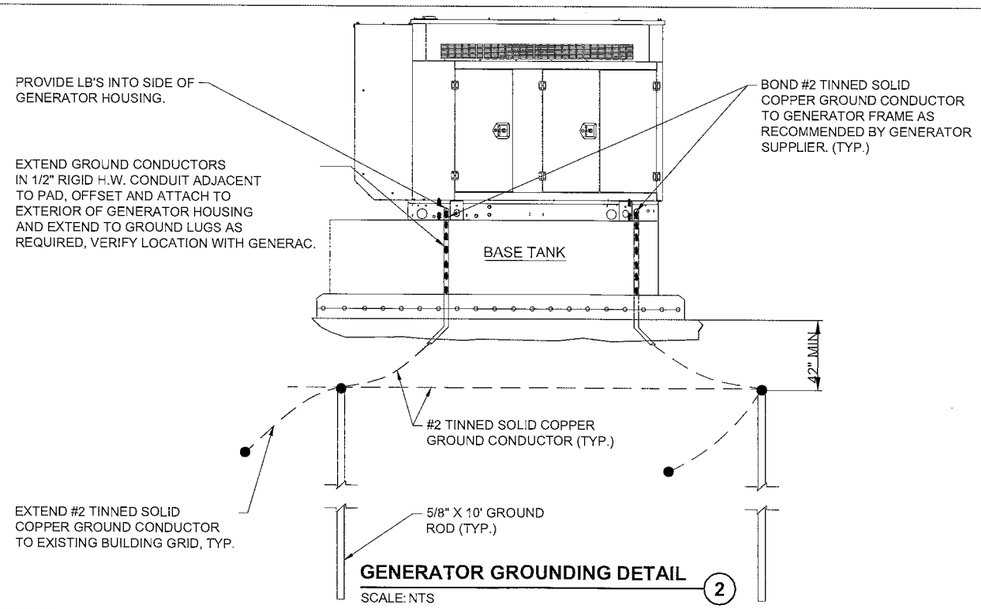
NOTE:
ANTENNA CABLES SHALL BE GROUNDED AT THE ANTENNA HEIGHT OF TOWER

NOTE:
ALL CABINET GROUND CONNECTION BY OTHERS.



TYPICAL SITE GROUNDING DETAIL 1

SCALE: NTS



GENERATOR GROUNDING DETAIL 2

SCALE: NTS

CELLCO PARTNERSHIP d/b/a VERIZON WIRELESS

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Certification & Seal:

MARK	DATE	DESCRIPTION
A	11/13/25	PRELIM CDs ISSUED

ISSUE PHASE: PRELIMINARY
DATE ISSUED: 11/10/2025

PROJECT TITLE:
DOCPARK_MCR
5000974975

PROJECT INFORMATION:
7200 N SANTA MONICA BLVD
VILLAGE OF FOX POINT, WI 53217
MILWAUKEE COUNTY

SHEET TITLE:
GROUNDING & ELECTRICAL DETAILS

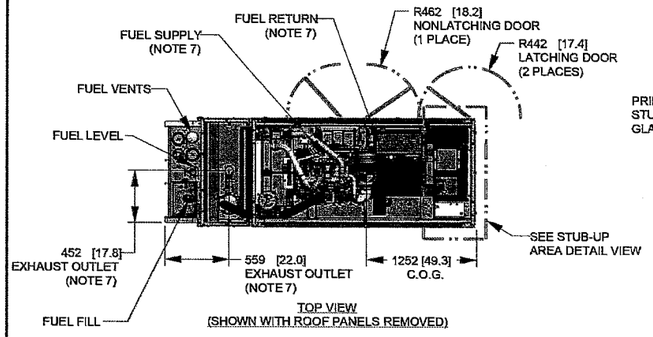
SCALE: NONE

PROJECT NUMBER: 62656
SHEET NUMBER: E-6

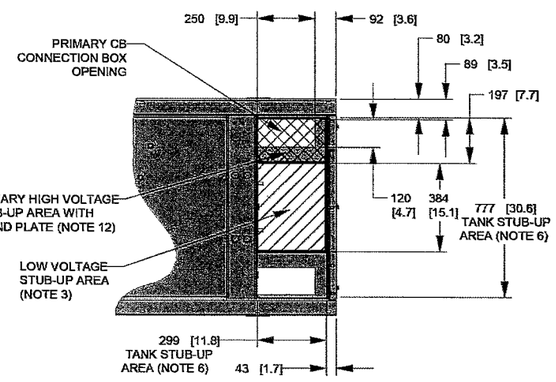
GENERATOR TYPE:	DIESEL (PENDING ENVIRONMENTAL VERIFICATION)
MAKE:	GENERAC
MODEL #:	SD030-1PE-190JT - STANDARD GENERAC SD030 30kw DIESEL - 190 GALLON

SH 1/1 | REV B | WINDCHILL VERSION B.3

RECOMMENDED ELECTRICAL STUB-UP	
(HIGH VOLTAGE STUB-UP) AC LOAD LEAD CONDUIT	
(LOW VOLTAGE STUB-UP)	

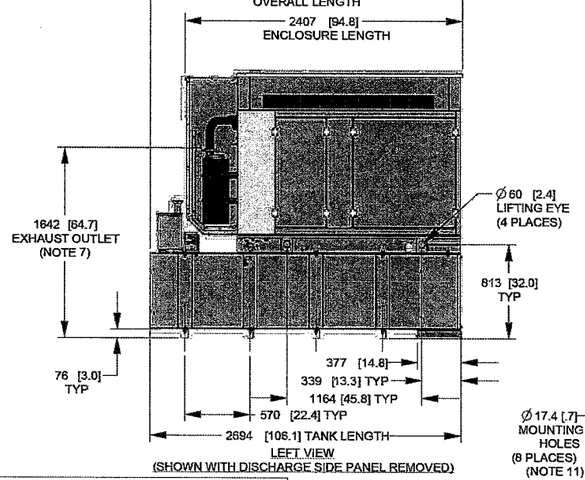


TOP VIEW
(SHOWN WITH ROOF PANELS REMOVED)

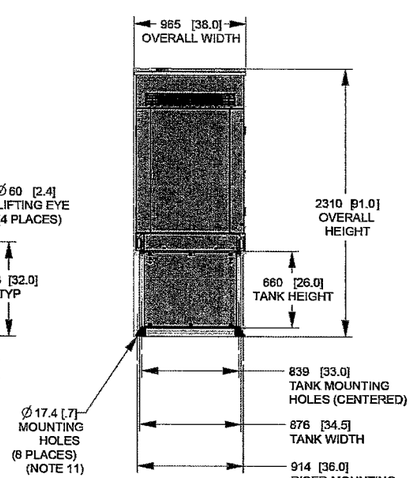


STUB-UP AREA VIEW
(2X SCALE)

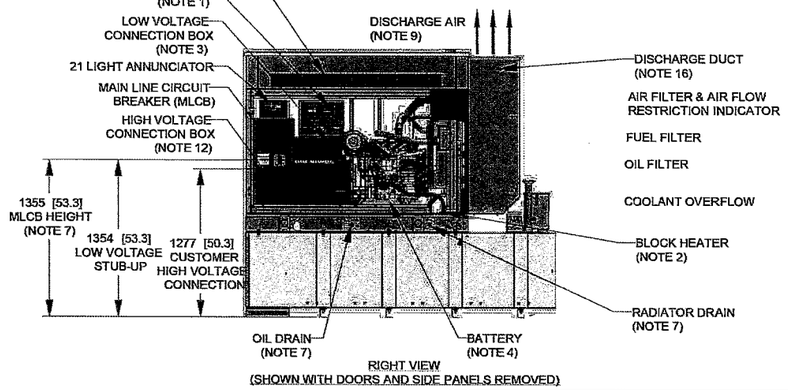
NOTES:
1. CONTROL PANEL INCLUDES BATTERY CHARGER WITH THREE PRONG CORD
2. 1500W 120 VAC ENGINE BLOCK HEATER WITH THREE PRONG CORD.
3. CONNECTION POINTS FOR CONTROL WIRES PROVIDED IN THE LOW VOLTAGE CONNECTION BOX. BOTTOM HAS KNOCKOUTS FOR 1/2" AND 3/4" CONDUIT FITTINGS. (USE LOW VOLTAGE STUB-UP AREA).
4. BATTERY (12 VOLT NEGATIVE GROUND SYSTEM).
5. MAIN LINE CIRCUIT BREAKER (MLCB) (MLCB HEIGHT MAY VARY WITH CB SELECTION) AC LOAD LEADS CONNECT DIRECTLY TO BOTTOM OF BREAKER.
6. CENTER OF GRAVITY & WEIGHT MAY SHIFT SLIGHTLY DUE TO UNIT OPTIONS.
7. ENGINE SERVICE CONNECTIONS:
   INLET DIESEL = 3/8" NPT
   RETURN DIESEL = 3/8" NPT
   OIL DRAIN = 1/2" NPT
   RADIATOR DRAIN = 1/2" NPT
   EXHAUST OUTLET = 2.5" I.D.
8. STUB-UPS: BASE TANK REQUIRES ALL STUB-UPS TO BE IN THE REAR TANK STUB-UP AREA.
9. GENERATOR SET MUST BE INSTALLED SUCH THAT FRESH COOLING AIR IS AVAILABLE AND DISCHARGE AIR IS NOT RECIRCULATED. SEE SPEC SHEET FOR MINIMUM AIR FLOW AND MAXIMUM RESTRICTION REQUIREMENTS.
10. BOTTOM OF GENERATOR SET MUST BE CLOSED TO PREVENT PEST INTRUSION AND RECIRCULATION OF DISCHARGE AIR AND/OR IMPROPER COOLING AIR FLOW.
11. BOLTS OR STUDS USED TO MOUNT UNIT TO PAD SHALL BE 5/8-11 GRADE 5. USE STANDARD SAE TORQUE SPECS.
12. HIGH VOLTAGE STUB-UP AREA INCLUDES THE AC LOAD LEAD CONNECTIONS TO MLCB, NEUTRAL CONNECTION AND AUXILIARY 120/240V CONNECTION.
13. 190 GALLON USEABLE CAPACITY BASETANK STANDARD WITH GENERATOR.
14. IT IS THE RESPONSIBILITY OF THE INSTALLATION TECHNICIAN TO ENSURE THAT THE GENERATOR INSTALLATION COMPLIES WITH ALL APPLICABLE CODES, STANDARDS, AND REGULATIONS.
15. UNIT IS SHIPPED WITH FUEL SUPPLY AND RETURN LINES DISCONNECTED AND PLUGGED BETWEEN ENGINE AND FUEL TANK. THIS HAS BEEN DONE TO FACILITATE PRESSURE TESTING OF THE TANK IN THE FIELD. FOR INFORMATION REGARDING CONNECTING THE FUEL SUPPLY AND RETURN LINES PRIOR TO START UP, SEE THE FUEL TANK FIELD TESTING PROCEDURE (0E5082) SUPPLIED IN THE TANK LOOSE VENTS KIT, WHICH IS SHIPPED WITH THIS GENERATOR.
16. SEE DRAWING 0C3850 FOR DISCHARGE DUCT REMOVAL. REMOVAL OF DUCT WILL PROVIDE ACCESS TO MUFFLER FOR SERVICING.
17. GENERATOR MUST BE GROUNDED.



LEFT VIEW
(SHOWN WITH DISCHARGE SIDE PANEL REMOVED)



REAR VIEW



RIGHT VIEW
(SHOWN WITH DOORS AND SIDE PANELS REMOVED)

DRAWING CREATED FROM PRO/ENGINEER 3D FILE. ECO MODIFICATION TO BE APPLIED TO SOLID MODEL ONLY.

WEIGHT DATA: (INCLUDES FUEL TANK)
GENERATOR: 1358 [2995]
GENERATOR WITH SHIPPING SKID: 1424 [3139]

WEIGHT: KG [LBS]
DIMENSIONS: MM [INCHES]

INSTALLATION DRAWING

ELECTRONICALLY APPROVED
INSIDE WINDCHILL

GENERAC

TITLE
INSTALL D2.2L G22
30KW SSS L2A Y02 EXT

ISSUE DATE: 12/18/17

SIZE	CAGE NO	DWG NO	REV
B	N/A	10000019074	B

SCALE 0.025 | WT-KG | SEE ABOVE | SHEET 1 of 1

CELLCO PARTNERSHIP d/b/a VERIZON WIRELESS

RAMAKER
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Certification # Seal#

MARK	DATE	DESCRIPTION
A	11/13/25	PRELIM CDs ISSUED

ISSUE PHASE: PRELIMINARY | DATE ISSUED: 11/10/2025

PROJECT TITLE:
DOCPARK_MCR
5000974975

PROJECT INFORMATION:
7200 N SANTA MONICA BLVD
VILLAGE OF FOX POINT, WI 53217
MILWAUKEE COUNTY

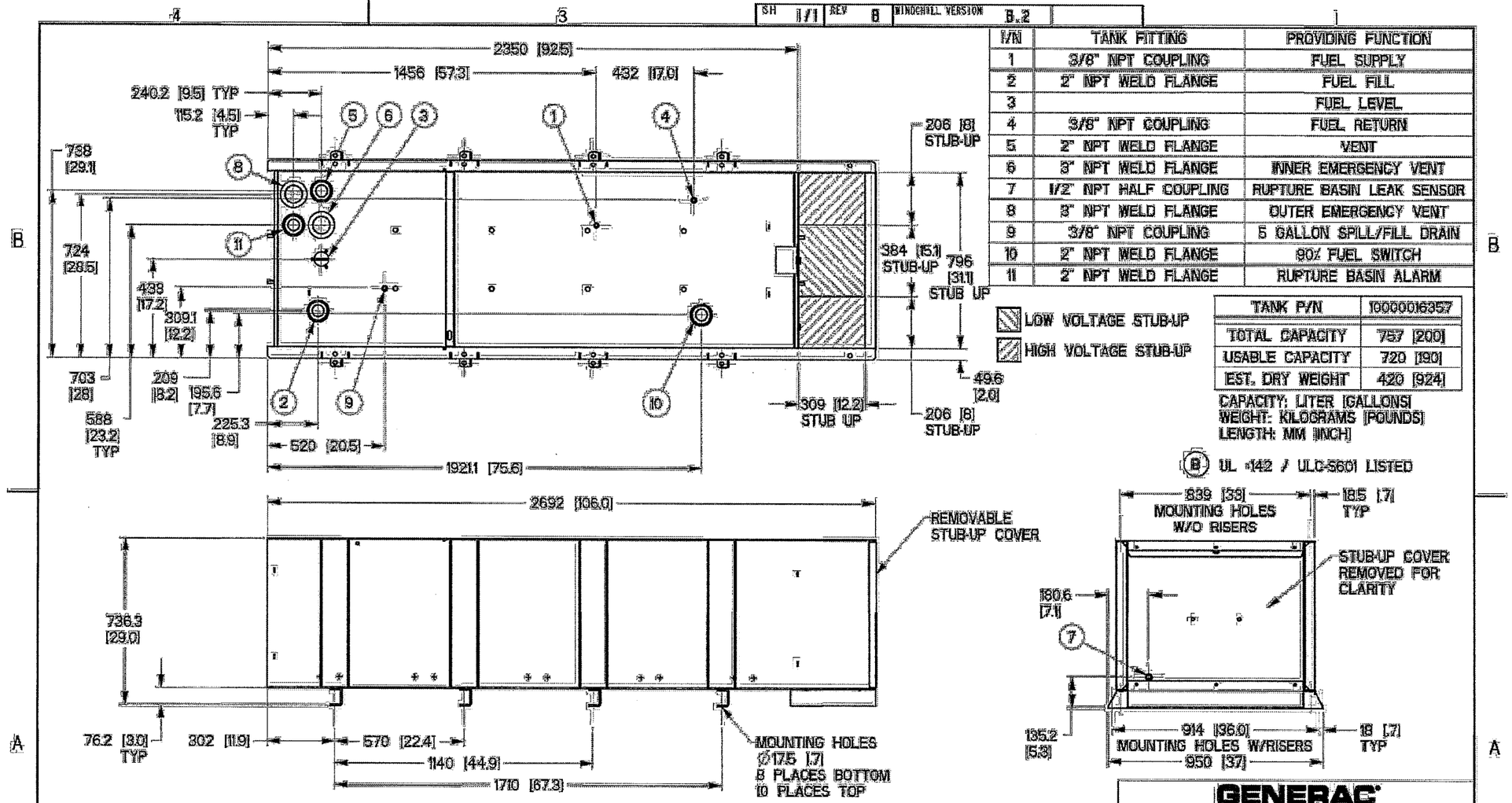
SHEET TITLE:
GENERATOR CUT-SHEET

SCALE: NONE

PROJECT NUMBER: 62656
SHEET NUMBER: EX-1

GENERATOR TYPE:	DIESEL (PENDING ENVIRONMENTAL VERIFICATION)
MAKE:	GENERAC
MODEL #:	SD030-1PE-190JT - STANDARD GENERAC SD030 30kw DIESEL - 190 GALLON

SH 1/1 | REV B | WINDCHILL VERSION B.2



I/N	TANK FITTING	PROVIDING FUNCTION
1	3/8" NPT COUPLING	FUEL SUPPLY
2	2" NPT WELD FLANGE	FUEL FILL
3		FUEL LEVEL
4	3/8" NPT COUPLING	FUEL RETURN
5	2" NPT WELD FLANGE	VENT
6	3" NPT WELD FLANGE	INNER EMERGENCY VENT
7	1/2" NPT HALF COUPLING	RUPTURE BASIN LEAK SENSOR
8	3" NPT WELD FLANGE	OUTER EMERGENCY VENT
9	3/8" NPT COUPLING	5 GALLON SPILL/FILL DRAIN
10	2" NPT WELD FLANGE	90% FUEL SWITCH
11	2" NPT WELD FLANGE	RUPTURE BASIN ALARM

TANK P/N	10000016357
TOTAL CAPACITY	757 [200]
USABLE CAPACITY	720 [190]
EST. DRY WEIGHT	420 [924]

CAPACITY: LITER [GALLONS]
WEIGHT: KILOGRAMS [POUNDS]
LENGTH: MM [INCH]

(B) UL -142 / ULC-S601 LISTED

DRAWING CREATED FROM PRO/ENGINEER 3D FILE. ECO MODIFICATION TO BE APPLIED TO SOLID MODEL ONLY.

INSTALLATION DRAWING

ELECTRONICALLY APPROVED INSIDE WINDCHILL

GENERAC

TITLE: INSTALL D2.2L BASETANK 1906 A EXT Y02 MDEQ

ISSUE DATE:

SIZE	CAGE NO	DWG NO	REV
B	N/A	10000019086	B

SCALE 0.063 | WT-KG 0.000 | SHEET 1 of 1

CELLCO PARTNERSHIP d/b/a VERIZON WIRELESS

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Certification # Seal:

MARK	DATE	DESCRIPTION
A	11/13/25	PRELIM CDs ISSUED

ISSUE PHASE: PRELIMINARY | DATE ISSUED: 11/10/2025

PROJECT TITLE:
DOCPARK_MCR
5000974975

PROJECT INFORMATION:
7200 N SANTA MONICA BLVD
VILLAGE OF FOX POINT, WI 53217
MILWAUKEE COUNTY

SHEET TITLE:
GENERATOR CUT-SHEET

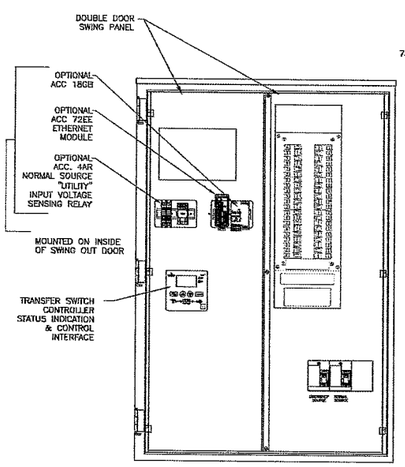
SCALE: NONE

PROJECT NUMBER: 62656
SHEET NUMBER: EX-2

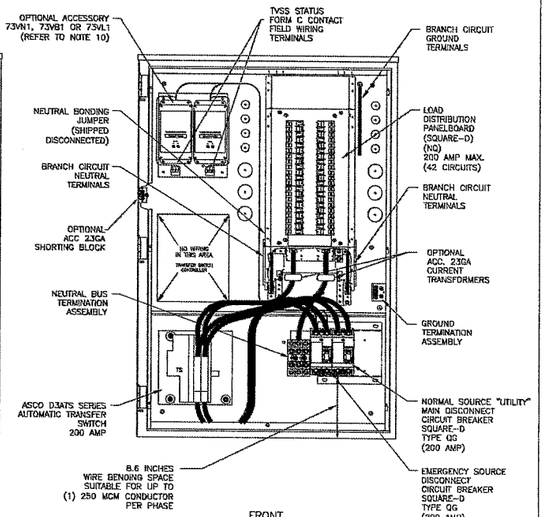
DRAWN BY: ISA CHECKED BY: MJR

C:\Users\ial-amoodi\AppData\Local\Temp\AcPublish_24536\62656_DocPark MCR_5000974975_Colocation_2025-11-10.dwg Printed by: ial-amoodi on Nov 14, 2025 - 10:35am

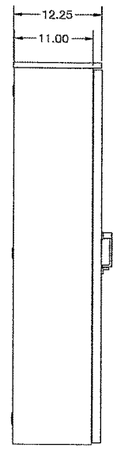
ASCO D300L Series Power Transfer Load Center Rated 200 Amps, 240 Vac max., Single Phase/3 Wire, Type 3R Enclosure



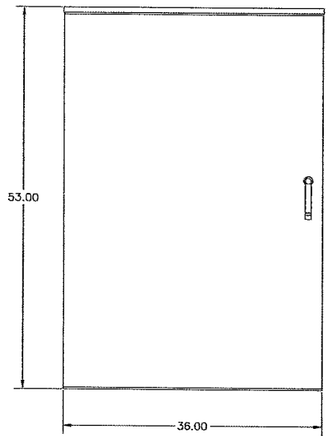
FRONT
EXTERIOR DOORS REMOVED



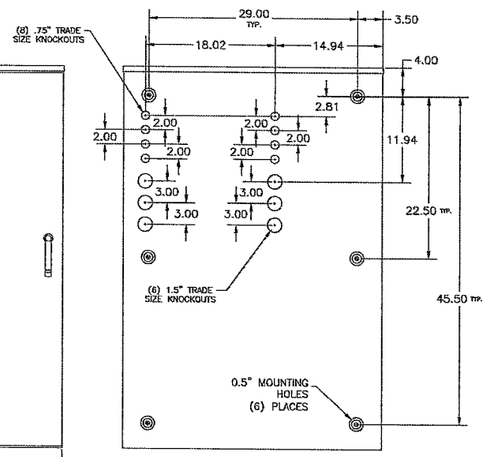
FRONT
EXTERIOR DOORS
&
DOUBLE DOOR SWING PANELS
REMOVED



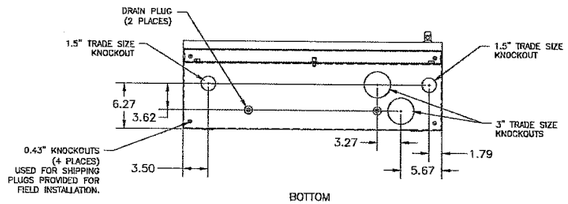
LEFT SIDE



FRONT
EXTERIOR DOOR CLOSED



REAR



BOTTOM

Notes:

1) Power Transfer Load Center constructed in accordance with UL 67 Standard for Panelboards. Suitable for Use as Service Equipment.

2) Automatic Power Transfer Switch: ASCO D3ATS, 2 Pole, 200 Amp, 240 Vac max.
UL Listed to UL 1008 Standard for Transfer Switching Equipment.
Transfer Controller – ASCO Group G Automatic Transfer Switch Controller including:
Automatic Engine Starting Contacts.
Single Phase voltage sensing of Normal and Emergency sources.
Frequency sensing of Emergency source.

3) Short Circuit Ratings: Accessory 117CB7 (Standard)
(Mains): Normal Source – 42kA at 240 Vac max., (Utility Main Disconnect circuit breaker), Square-D Cat. Type QG, 2 Pole, 200 Amps.
Emergency Source – 42kA at 240 Vac max., (Generator Disconnect circuit breaker), Square-D Cat. Type QG, 2 Pole, 200 Amps.
(Branch): Branch ratings as follows when used with the specified branch devices.
42kA using Sq-D QH or QHB: 1 Pole 15–30A, 2 Pole 15–30A, 3 Pole 15–30A
22kA using Sq-D QO–VH or QOB–VH rated: 2 Pole 150A, 3 Pole 35–150A
10kA using Sq-D QO or QOB rated: 1 Pole 15–70A, 2 Pole 15–125A, 3 Pole 15–30A

4) Panelboard: Square-D NQ, 225 Amps max., 240 Vac max., single phase with 100% rated neutral. 42 Circuits, accepts bolt-on or plug-on branch devices.

5) Accessory 4AR (Optional) – Voltage Sensing Relay to indicate the presence of the Normal Source "Utility" voltage ahead of the Normal Source main disconnect circuit breaker, regardless of the position of the circuit breaker.

6) Accessory 11BE (Optional) – A Four-Function Software Bundle that provides the following functions:
– Serial Communications (RS–485)
– Programmable Engine Exerciser with Battery Back–up
– Event Log
– Common alarm signal capability on Group G Controller "OP1" output.

7) Accessory 18BG (Optional) – Signals the availability of the Normal & Emergency sources when provided. Output contacts "RL5" (Emergency Source Available) and "RL6" (Normal Source Available) change position when this source is acceptable.

8) Accessory 23GA (Optional) – Single Phase Current Sensing Module with current transformers and shorting blocks. Phase current measurements are available for display on the Group G Controller.

9) Accessory 72EE (Optional) – ASCO 5140 Ethernet Connectivity Module. Provides remote ATS and Generator control, Monitoring and Connectivity Features via integrated web page dashboards.

10) Accessory 73VN1, 73VB1, or 73VL1 as Specified (Optional):
Transient Voltage Surge Suppressors: ASCO Pulsar TVSS, P/N 458120SS, with six (6) mode protection (L–L, L–N, L–G, N–G), Integral LED status indication per phase signaling (Service Available & Status OK), and one (1) Form 'C' contact wired to a terminal block to signal overall Status OK.
Supplied as one of the following accessories:
Acc. 73VN1: one (1) TVSS connected to Normal
Acc. 73VB1: two (2) TVSS's, one (1) connected to the Emergency source and one (1) connected to the Normal source.
Acc. 73VL1: one (1) TVSS connected the Load only

11) Enclosure:
Type 3R Listed to UL 50/50E. Single Compartment Wall Mount provides Type 1 protection with exterior open and swing panels closed.
Box – Constructed of 0.095 thick aluminum alloy (5052–H32)
Doors (interior/Exterior) – Constructed of 0.095 thick aluminum alloy (5052–H32)
Finishes – All interior and exterior surfaces: Textured Polyester Powder Coat, Light Gray (RAL 7035)

12) Grounding provisions for Normal, Emergency & Load.

13) Overall Dimensions:
53"H x 36"W x 12.3"D

14) Weight: Approx. 210 lbs.

REV	ECN	BY	DATE
A	252620	BL	JPB 01/13/15
	SEE ECN-ADD'S ADD		
—	246879	BL	JPB 08/14
	NEW ISSUE		

PROJECT NAME:
OUTLINE and MOUNTINGS | TYPE 3R
D300L SERIES, SINGLE PHASE, 200 AMP
POWER TRANSFER LOAD CENTER

THIRD ANGLE PROJECTION

	BY	DATE
DRAWN BY	DL	08/14
CHECKED		
PRODUCT APPROVAL		
ENG. APPROVAL	JPB	08/14

MANUFACTURING TOLERANCES TO BE IN ACCORDANCE WITH ASCO PROCEDURE MP-1-003. FOR PLASTIC PARTS SEE MP-1-006.

ASSOC. REF. NO.

COMPUTER GENERATED DRAWING
SCALE: 1/8" = 1" SIZE DS
DWG. NO. 1015683-006

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ASCO® ASCO Power Technologies, L.P. FLORHAM PARK, NEW JERSEY 07932 U.S.A.

DRAWING REV. A ECN 252620 SHEET 1 OF 1

CELLCO PARTNERSHIP d/b/a VERIZON WIRELESS

RAMAKER
employee-owned
(608) 643-4100 www.ramaker.com

Certification & Seal:

MARK	DATE	DESCRIPTION
A	11/13/25	PRELIM CDs ISSUED

ISSUE PHASE: PRELIMINARY
DATE ISSUED: 11/10/2025

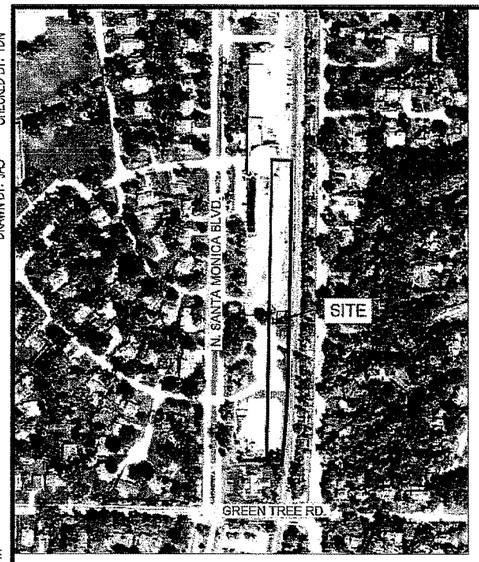
PROJECT TITLE:
DOCPARK_MCR
5000974975

PROJECT INFORMATION:
7200 N SANTA MONICA BLVD
VILLAGE OF FOX POINT, WI 53217
MILWAUKEE COUNTY

SHEET TITLE:
INTEGRATED LOAD CENTER

SCALE: NONE

PROJECT NUMBER: 62656
SHEET NUMBER: EX-3



VICINITY MAP
NOT TO SCALE

PARENT PARCEL DESCRIPTION PER TITLE REPORT BY CHICAGO TITLE COMPANY (PARCEL NUMBER: 129-9983-001)

PART OF THE SOUTHWEST 1/4 OF SECTION 16 AND THE NORTHWEST 1/4 OF SECTION 21, OF TOWNSHIP 8 NORTH, RANGE 22 EAST IN THE VILLAGE OF FOX POINT, MILWAUKEE COUNTY, WISCONSIN DESCRIBED AS FOLLOWS:THE FOLLOWING BEARINGS AND DISTANCES ARE REFERRED TO WEST LINE OF THE FRACTIONAL NORTHWEST 1/4 OF SECTION 21, TOWN 8 NORTH, RANGE 22 EAST, WHICH IS TAKEN TO BEAR NORTH 0°11'34" EAST, COMMENCING AT A POINT 1250.89 FEET EAST AND 1.25 FEET NORTH OF THE NORTHWEST CORNER OF THE NORTHWEST 1/4 OF SECTION 21, TOWN 8 NORTH, RANGE 22 EAST WHICH IS ALSO DISTANT 33 FEET WEST, AT RIGHT ANGLES FROM THE CENTER LINE OF THE CHICAGO AND NORTHWESTERN RAILWAY COMPANY'S MOST WESTERLY MAIN TRACK; THENCE WEST 75 FEET TO A POINT; SAID POINT BEING 200 FEET EAST OF THE CENTER LINE OF RICHARDS STREET; THENCE SOUTH AND PARALLEL WITH CENTER LINE OF RICHARDS STREET, 1262.38 FEET TO A POINT 45 FEET NORTH OF THE CENTER LINE OF GREEN TREE ROAD; THENCE NORTH 89°47'24" EAST ALONG THE NORTH LINE OF GREEN TREE ROAD, 47 FEET, MORE OR LESS, TO A POINT 33 FEET WEST AT RIGHT ANGLES FROM SAID CENTER LINE OF MAIN TRACK; THENCE NORTHEASTERLY AND NORTH PARALLEL WITH SAID CENTER LINE OF MAIN TRACK 1265 FEET, MORE OR LESS, TO THE POINT OF BEGINNING.

EXCEPTING THEREFROM THOSE LANDS CONVEYED BY WARRANTY DEED RECORDED AS DOCUMENT NO. 3253685 AND BY WARRANTY DEED RECORDED AS DOCUMENT NO. 5707774.

TITLE REPORT REVIEW

PREPARED BY: CHICAGO TITLE COMPANY
REPORT NUMBER: CO-16629M
EFFECTIVE DATE: 08/26/2025

THE FOLLOWING EASEMENTS AND RESTRICTIONS AFFECT THE ABOVE DESCRIBED LAND:

1. EASEMENT(S) FOR THE PURPOSE(S) AND RIGHTS INCIDENTAL THERETO AS RESERVED IN A DOCUMENT RECORDED ON SEPTEMBER 20, 1928, AS DOCUMENT NO. 1844423. ***(DOES NOT AFFECT PARENT PARCEL AND THEREFORE NOT SHOWN ON SURVEY.)***

2. AGREEMENT BETWEEN THE VILLAGE OF FOX POINT AND CHICAGO AND NORTH WESTERN RAILWAY COMPANY RECORDED SEPTEMBER 24, 1929 AS DOCUMENT NO. 1734305. ***(NON-SURVEY EXCEPTION.)***

3.COVENANTS, CONDITIONS AND RESTRICTIONS ,EXCEPTING AND RESERVING, HOWEVER, UNTO THE PARTY OF THE FIRST PART, ITS SUCCESSORS AND ASSIGNS FOREVER, THE OWNERSHIP OF ALL THE COAL, OIL, GAS, CASING HEAD GAS, AND ALL MINERALS OF EVERY KIND AND NATURE, IN, ON OR UNDER THE SURFACE OF THE LAND HEREIN DESCRIBED.; ALSO RESERVING, HOWEVER, UNTO SAID PARTY OF THE FIRST PART, ITS LESSEES, LICENSEES, SUCCESSORS AND ASSIGNS, THE
SIGNAL POLE LINE NOW LOCATED UPON SAID PREMISES, TOGETHER WITH THE RIGHT TO MAINTAIN AND RECONSTRUCT THE SAME UNTIL SUCH TIME AS THEY ARE PERMANENTLY REMOVED BY SAID PARTY OF THE FIRST PART, ITS LESSEES, LICENSEES, SUCCESSORS OR ASSIGNS, AND BY THE ACCEPTANCE OF THIS CONVEYANCE THE PARTY OF THE SECOND PART FOR ITSELF, ITS SUCCESSORS AND ASSIGNS, AGREES TO ASSUME THE ENTIRE COST AND EXPENSE OF REMOVING SAID SIGNAL POLE LINE FROM THE PREMISES HEREIN CONVEYED, IN THE EVENT SUCH REMOVAL IS DESIRED BY SAID PARTY OF THE SECOND PART, ITS SUCCESSORS AND ASSIGNS , AS SET FORTH IN THE DOCUMENT RECORDED ON SEPTEMBER 16, 1953, AS DOCUMENT NO. 3236702. ***(NON-SURVEY EXCEPTION.)***

4. COVENANTS, CONDITIONS AND RESTRICTIONS BUT OMITTING ANY COVENANTS OR RESTRICTIONS, IF ANY, INCLUDING BUT NOT LIMITED TO THOSE BASED UPON RACE, COLOR, RELIGION, SEX, SEXUAL ORIENTATION, FAMILIAL STATUS, MARITAL STATUS, DISABILITY, HANDICAP, NATIONAL ORIGIN, ANCESTRY, SOURCE OF INCOME, GENDER, GENDER IDENTITY, GENDER EXPRESSION, MEDICAL CONDITION OR GENETIC INFORMATION, AS SET FORTH IN APPLICABLE STATE OR FEDERAL LAWS, EXCEPT TO THE EXTENT THAT SAID COVENANT OR RESTRICTION IS PERMITTED BY APPLICABLE LAW, AS SET FORTH IN THE DOCUMENT RECORDED ON FEBRUARY 8, 1956, AS DOCUMENT NO. 3466951. ***(DOES NOT AFFECT PARENT PARCEL AND THEREFORE NOT SHOWN ON SURVEY.)***

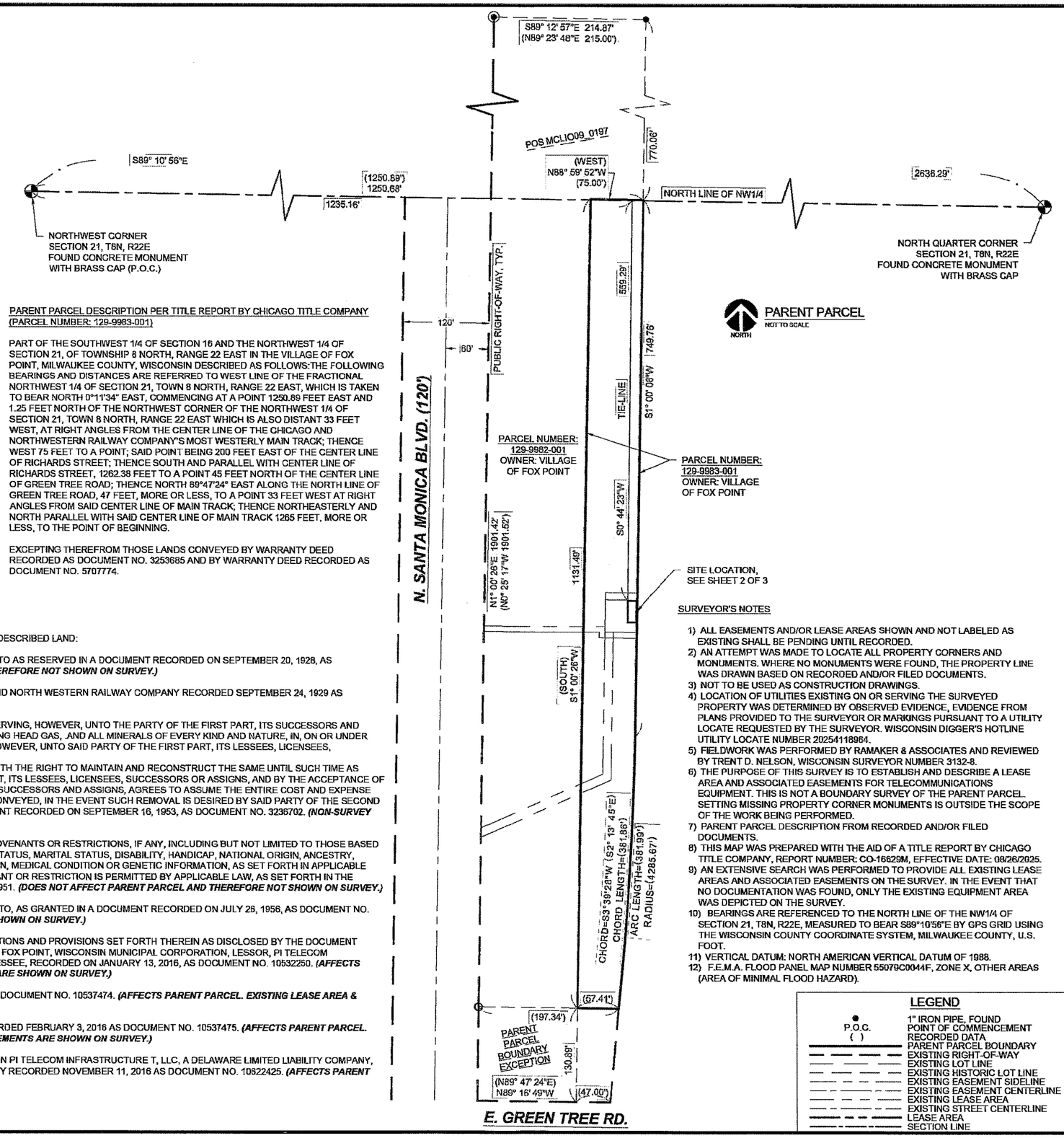
5. EASEMENT(S) FOR THE PURPOSE(S) AND RIGHTS INCIDENTAL THERETO, AS GRANTED IN A DOCUMENT RECORDED ON JULY 26, 1956, AS DOCUMENT NO. 3503036. ***(DOES NOT AFFECT PARENT PARCEL AND THEREFORE NOT SHOWN ON SURVEY.)***

6. AN UNRECORDED LEASE WITH CERTAIN TERMS, COVENANTS, CONDITIONS AND PROVISIONS SET FORTH THEREIN AS DISCLOSED BY THE DOCUMENT ENTITLED MEMORANDUM OF GROUND LEASE AGREEMENT, VILLAGE OF FOX POINT, WISCONSIN MUNICIPAL CORPORATION, LESSOR, PI TELECOM INFRASTRUCTURE T, LLC, A DELAWARE LIMITED LIABILITY COMPANY, LESSEE, RECORDED ON JANUARY 13, 2016, AS DOCUMENT NO. 10532250. ***(AFFECTS PARENT PARCEL. EXISTING LEASE AREA & ASSOCIATED EASEMENTS ARE SHOWN ON SURVEY.)***

7. ACCESS EASEMENT AGREEMENT RECORDED FEBRUARY 3, 2016 AND DOCUMENT NO. 10537474. ***(AFFECTS PARENT PARCEL. EXISTING LEASE AREA & ASSOCIATED 12' WIDE ACCESS EASEMENT ARE SHOWN ON SURVEY.)***

8. ELECTRICAL AND FIBER OPTIC CABLE EASEMENT AGREEMENT RECORDED FEBRUARY 3, 2016 AS DOCUMENT NO. 10537475. ***(AFFECTS PARENT PARCEL. EXISTING LEASE AREA & ASSOCIATED 8' WIDE & 10' WIDE UTILITY EASEMENTS ARE SHOWN ON SURVEY.)***

9. MEMORANDUM OF SITE LICENSE AGREEMENT MADE BY AND BETWEEN PI TELECOM INFRASTRUCTURE T, LLC, A DELAWARE LIMITED LIABILITY COMPANY, LICENSOR AND T-MOBILE CENTRAL, LLC, A DELAWARE LIMITED LIABILITY RECORDED NOVEMBER 11, 2016 AS DOCUMENT NO. 10622425. ***(AFFECTS PARENT PARCEL. REFERENCES EXISTING TOWER SITE.)***



SURVEYOR'S NOTES

1) ALL EASEMENTS AND/OR LEASE AREAS SHOWN AND NOT LABELED AS EXISTING SHALL BE PENDING UNTIL RECORDED.
2) AN ATTEMPT WAS MADE TO LOCATE ALL PROPERTY CORNERS AND MONUMENTS. WHERE NO MONUMENTS WERE FOUND, THE PROPERTY LINE WAS DRAWN BASED ON RECORDED AND/OR FILED DOCUMENTS.
3) NOT TO BE USED AS CONSTRUCTION DRAWINGS.
4) LOCATION OF UTILITIES EXISTING ON OR SERVING THE SURVEYED PROPERTY WAS DETERMINED BY OBSERVED EVIDENCE, EVIDENCE FROM PLANS PROVIDED TO THE SURVEYOR OR MARKINGS PURSUANT TO A UTILITY LOCATE REQUESTED BY THE SURVEYOR. WISCONSIN DIGGER'S HOTLINE UTILITY LOCATE NUMBER 20254118964.
5) FIELDWORK WAS PERFORMED BY RAMAKER & ASSOCIATES AND REVIEWED BY TRENT D. NELSON, WISCONSIN SURVEYOR NUMBER 3132-8.
6) THE PURPOSE OF THIS SURVEY IS TO ESTABLISH AND DESCRIBE A LEASE AREA AND ASSOCIATED EASEMENTS FOR TELECOMMUNICATIONS EQUIPMENT. THIS IS NOT A BOUNDARY SURVEY OF THE PARENT PARCEL. SETTING MISSING PROPERTY CORNER MONUMENTS IS OUTSIDE THE SCOPE OF THE WORK BEING PERFORMED.
7) PARENT PARCEL DESCRIPTION FROM RECORDED AND/OR FILED DOCUMENTS.
8) THIS MAP WAS PREPARED WITH THE AID OF A TITLE REPORT BY CHICAGO TITLE COMPANY, REPORT NUMBER: CO-16629M, EFFECTIVE DATE: 08/26/2025.
9) AN EXTENSIVE SEARCH WAS PERFORMED TO PROVIDE ALL EXISTING LEASE AREAS AND ASSOCIATED EASEMENTS ON THE SURVEY. IN THE EVENT THAT NO DOCUMENTATION WAS FOUND, ONLY THE EXISTING EQUIPMENT AREA WAS DEPICTED ON THE SURVEY.
10) BEARINGS ARE REFERENCED TO THE NORTH LINE OF THE NW1/4 OF SECTION 21, T8N, R22E, MEASURED TO BEAR S89°10'56"E BY GPS GRID USING THE WISCONSIN COUNTY COORDINATE SYSTEM, MILWAUKEE COUNTY, U.S. FOOT.
11) VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988.
12) F.E.M.A. FLOOD PANEL MAP NUMBER 55079C0044F, ZONE X, OTHER AREAS (AREA OF MINIMAL FLOOD HAZARD).

LEGEND

●	1" IRON PIPE, FOUND
P.O.C.	POINT OF COMMENCEMENT
( )	RECORDED DATA
	PARENT PARCEL BOUNDARY
	EXISTING RIGHT-OF-WAY
	EXISTING LOT LINE
	EXISTING HISTORIC LOT LINE
	EXISTING EASEMENT SIDELINE
	EXISTING EASEMENT CENTERLINE
	EXISTING LEASE AREA
	EXISTING STREET CENTERLINE
	LEASE AREA
	SECTION LINE

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Certification & Seal:
I hereby certify that this Survey Document was prepared and the related Survey Work was performed by me or under my direct personal supervision and that I am a duly Licensed Land Surveyor under the Laws of the State of Wisconsin.

PRELIMINARY FOR CLIENT REVIEW

Trent D. Nelson, PLS
License Number: 3132-8

REV	DATE	DESCRIPTION

ISSUE PHASE: PRELIMINARY
DATE ISSUED: 10/30/2025

PROJECT TITLE:
DOCPARK_MCR_16TDN272800

PROJECT ADDRESS:
7200 SANTA MONICA BOULEVARD
FOX POINT, WI 53217
MILWAUKEE COUNTY

SHEET TITLE:
LEASE SURVEY

SCALE:
NONE

PROJECT NUMBER: 62656
SHEET NUMBER: 1 OF 3

DRAWN BY: JAS CHECKED BY: TDN

Printed by: jsyvrud on Oct 30, 2025 - 4:47pm

C:\Users\jsyvrud\AppData\Local\Temp\AcPublish_14512\62656 DocPark_MCR_16TDN272800 Survey.dwg

N. SANTA MONICA BLVD. (120')

60'

120'

PUBLIC RIGHT-OF-WAY, TYP.

PARCEL NUMBER: 129-9982-001
OWNER: VILLAGE OF FOX POINT

PARCEL NUMBER: 129-9983-001
OWNER: VILLAGE OF FOX POINT

PARENT PARCEL BOUNDARY, TYP.

EXISTING 45' X 45' LEASE AREA, SEE TITLE EXCEPTION NO. 6, 7, 8

EXISTING 10' WIDE UTILITY EASEMENT, SEE TITLE EXCEPTION NO. 6 & 8

TIE-LINE 569.29' S0° 44' 23"W

10.00'

VERIZON LEASE AREA, SEE DETAIL THIS SHEET

EXISTING 8' WIDE UTILITY EASEMENT, SEE TITLE EXCEPTION NO. 6 & 8

8.00'

EXISTING COMMUNICATIONS VAULT, TYP.

EXISTING COMMUNICATIONS PEDESTAL, TYP.

EXISTING ASPHALT PARKING LOT

12.00'

EXISTING 12' WIDE ACCESS EASEMENT, SEE TITLE EXCEPTION NO. 6 & 7

OVERALL SITE PLAN
SCALE: 0 20' 40' 80'
11" x 17" - 1" = 40'
22" x 34" - 1" = 20'

EXISTING 8' WIDE UTILITY EASEMENT, SEE TITLE EXCEPTION NO. 6 & 8

TIE-LINE 569.29' S0° 44' 23"W

EXISTING CHAIN LINK FENCE COMPOUND

EXISTING EQUIPMENT PLATFORM

EXISTING DECIDUOUS TREE, TYP.

P.O.B. VERIZON 12' X 30' LEASE AREA

N89° 15' 37"W 12.00'

S0° 44' 23"W 30.00'

VERIZON 50' X 50' LEASE AREA

N0° 44' 23"E 30.00'

S89° 15' 37"E 12.00'

45.00'

8.00'

EXISTING CONCRETE TOWER FOUNDATION

EXISTING 8' WIDE UTILITY EASEMENT, SEE TITLE EXCEPTION NO. 6 & 8

EXISTING H-FRAME, TYP.

EXISTING COMMUNICATIONS VAULT, TYP.

EXISTING 12' WIDE ACCESS EASEMENT, SEE TITLE EXCEPTION NO. 6 & 7

VERIZON LEASE AREA
SCALE: 0 10' 20' 40'
11" x 17" - 1" = 20'
22" x 34" - 1" = 10'

LEGEND

P.O.B.	POINT OF BEGINNING
	PARENT PARCEL BOUNDARY
	EXISTING RIGHT-OF-WAY
	EXISTING LOT LINE
	EXISTING CHAINLINK FENCE
	EXISTING EASEMENT SIDELINE
	EXISTING EASEMENT CENTERLINE
	EXISTING LEASE AREA
	EXISTING STREET CENTERLINE
FO FO	EXISTING BURIED FIBER OPTIC
	EXISTING TELEPHONE PEDESTAL
	EXISTING ASPHALT
	EXISTING CONCRETE
	LEASE AREA

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FOX POINT, WI 53217
MILWAUKEE COUNTY

SHEET TITLE:
LEASE SURVEY

SCALE:
AS NOTED

PROJECT NUMBER: 62656

SHEET NUMBER: 2 OF 3

EXISTING 45' X 45' LEASED PREMISES DESCRIPTION

PART OF THE FRACTIONAL NORTHWEST 1/4 OF SECTION 21, TOWN 8 NORTH, RANGE 22 EAST IN THE VILLAGE OF FOX POINT, COUNTY OF MILWAUKEE, STATE OF WISCONSIN, DESCRIBED AS FOLLOWS:

COMMENCING AT THE NORTHEAST CORNER OF PARENT PARCEL A, AS DESCRIBED IN DEED DOCUMENT NUMBER 3236702, WHICH POINT IS 777.76 FEET SOUTH OF THE NE CORNER OF PARCEL PER PLAT OF SURVEY OF S.A.I. DATED JULY 11, 2007; THENCE ALONG THE EASTERLY LINE OF SAID PARENT PARCEL A, S00°25'17"E, A DISTANCE OF 552.10FEET TO THE POINT OF BEGINNING; THENCE CONTINUING ALONG THE LAST DESCRIBED COURSE, S00°25'17"E, 45.00 FEET; THENCE N89°34'43"E, A DISTANCE OF'45.00 FEET; THENCE N00°25'17"W, A DISTANCE OF 45.00 FEET; THENCE N89°34'43"E, A DISTANCE OF 45.00 FEET TO THE POINT OF BEGINNING. CONTAINING 2,025 SQUARE FEET OR 0.05 ACRES, MORE OR LESS.

BEING A PORTION OF TAX KEY: 129-9983-001 OF PARENT PARCEL (PARCEL A) DESCRIBED IN DEED TO VILLAGE OF FOX POINT RECORDED AS DOCUMENT NO. 3236702 IN THE RECORDS OF MILWAUKEE COUNTY, WISCONSIN.

EXISTING 12' WIDE ACCESS EASEMENT AREA DESCRIPTION

A 12.00' STRIP PARCEL IN THE FRACTIONAL NORTHWEST 1/4 OF SECTION 21, TOWN 8 NORTH, RANGE 22 EAST IN THE VILLAGE OF FOX POINT, COUNTY OF MILWAUKEE, STATE OF WISCONSIN. THE CENTERLINE OF WHICH IS MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE NORTHEAST CORNER OF PARENT PARCEL A, AS, DESCRIBED IN DEED DOCUMENT NUMBER 3236702, WHICH POINT IS 771.76 FEET SOUTH OF THE NE CORNER OF PARCEL PER PLAT OF SURVEY OF S.A.I. DATED JULY 11,2007; THENCE ALONG THE EASTERLY LINE OF SAID PARENT PARCEL A, S00°25'17"E, A DISTANCE OF 597.10 FEET; THENCE S89°34'43W, A DISTANCE OF 39.00 FEET TO THE POINT OF BEGINNING; THENCE S00°23'49"E, A DISTANCE OF 202.84 FEET; THENCE S64°54'23"W, A DISTANCE OF 196.21 FEET TO THE EASTERLY RIGHT OF WAY OF NORTH SANTA MONICA BOULEVARD THE POINT OF TERMINATION. CONTAINING 4,811 SQUARE FEET OR 0.11 ACRES, MORE OR LESS.

BEING A PORTION OF TAX KEY: 129-9983-001 AND 129-9982-001 OF PARENT PARCEL (PARCELS A AND B) DESCRIBED IN DEED TO VILLAGE OF FOX POINT RECORDED AS DOCUMENT NOS. 3236702 AND 1767264, RESPECTIVELY, IN THE RECORDS OF MILWAUKEE COUNTY, WISCONSIN.

EXISTING 10' WIDE UTILITY EASEMENT AREA DESCRIPTION

AN 10.00' STRIP PARCEL IN THE FRACTIONAL NORTHWEST 1/4 OF SECTION 21, TOWN 8 NORTH, RANGE 22 EAST IN THE VILLAGE OF FOX POINT, COUNTY OF MILWAUKEE, STATE OF WISCONSIN, LYING 10.00 FEET NORTH AND PARALLEL OF A LINE DESCRIBED AS FOLLOWS:

COMMENCING AT THE NORTHEAST CORNER OF PARENT PARCEL A, AS DESCRIBED IN DEED DOCUMENT NUMBER 3236702, WHICH POINT IS 777.76 FEET SOUTH OF THE NE CORNER OF PARCEL PER PLAT OF SURVEY OF S.A.I. DATED JULY 11, 2007; THENCE ALONG THE EASTERLY LINE OF SAID PARENT PARCEL A, S00°25'17"E, A DISTANCE OF 552.10, FEET TO THE POINT OF BEGINNING; THENCE S89°34'43"W, A DISTANCE OF 45.00 FEET TO THE POINT OF TERMINATION. CONTAINING 450 SQUARE FEET OR 0.01 ACRES, MORE OR LESS.

BEING A PORTION OF TAX KEY: 129-9983-001 OF PARENT PARCEL (PARCEL A) DESCRIBED IN DEED TO VILLAGE OF FOX POINT RECORDED AS DOCUMENT NO. 3236702 IN THE RECORDS OF MILWAUKEE COUNTY, WISCONSIN.

EXISTING 8' WIDE UTILITY EASEMENT AREA DESCRIPTION

AN 8.00' STRIP PARCEL IN THE FRACTIONAL NORTHWEST 1/4 OF SECTION 21, TOWN 8 NORTH, RANGE 22 EAST IN THE VILLAGE OF FOX POINT, COUNTY OF MILWAUKEE, STATE OF WISCONSIN. THE CENTERLINE OF WHICH IS MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE NORTHEAST CORNER OF PARENT PARCEL A, AS DESCRIBED IN DEED DOCUMENT NUMBER 3236702, WHICH POINT IS 777.76 FEET SOUTH OF THE NE CORNER OF PARCEL PER PLAT OF SURVEY OF S.A.I. DATED JULY 11,2007; THENCE ALONG THE EASTERLY LINE OF SAID PARENT PARCEL A, S00°25'17"E, A DISTANCE OF 601.10 FEET TO THE POINT OF BEGINNING, THENCE S89°34'43"W, A DISTANCE OF 49.00 FEET; THENCE N00°25'17"W A DISTANCE OF 7.57 FEET; THENCE S86°43'39"W A DISTANCE OF 166.00 FEET TO THE EASTERLY RIGHT OF WAY OF SANTA MONICA BOULEVARD AND THE POINT TERMINATION. CONTAINING 1,776 SQUARE FEET OR 0.04 ACRES, MORE OR LESS.

BEING A PORTION OF TAX KEY: 129-9983-001 AND 129-9982-001 OF PARENT PARCEL (PARCELS A AND B) DESCRIBED IN DEED TO VILLAGE OF FOX POINT RECORDED AS DOCUMENT NOS. 3236702 AND 1767264, RESPECTIVELY, IN THE RECORDS OF MILWAUKEE COUNTY, WISCONSIN.

VERIZON 12' X 30' LEASE AREA METES & BOUNDS DESCRIPTION

A PORTION OF LAND LOCATED IN THE NORTHWEST QUARTER OF THE NORTHWEST QUARTER OF SECTION TWENTY-ONE (21), TOWNSHIP EIGHT (8) NORTH, RANGE TWENTY-TWO (22) EAST, VILLAGE OF FOX POINT, MILWAUKEE COUNTY, WISCONSIN AND BEING FURTHER DESCRIBED AS FOLLOWS:

COMMENCING AT A FOUND CONCRETE MONUMENT WITH BRASS MONUMENT LOCATING THE NORTHWEST CORNER OF SAID SECTION 21; THENCE S89°10'56"E, 1235.16 FEET ALONG THE NORTH LINE OF THE NW1/4 OF SAID SECTION 21; THENCE S0°44'23"W, 559.29 FEET TO THE POINT OF BEGINNING; THENCE CONTINUING S0°44'23"W, 30.00 FEET; THENCE S89°15'37"E, 12.00 FEET; THENCE N0°44'23"E, 30.00 FEET; THENCE N89°15'37"W, 12.00 FEET TO THE POINT OF BEGINNING. SAID LEASE AREA CONTAINS 360 SQUARE FEET (0.008 ACRES) AND IS SUBJECT TO ANY AND ALL EASEMENTS OR AGREEMENTS, RECORDED OR UNRECORDED.

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SHEET TITLE:
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SCALE:
NONE

PROJECT NUMBER: 62656
SHEET NUMBER: 3 OF 3