177th BOARD YEAR LEGISLATIVE ITEMS RECEIVED FOR COMMITTEE REFERRAL

	LL.	01027	TIVE HEIVIS RECEIVED FOR COIVINITIES REFERRAL
File No.	Rec/Ref:	To:	Title
177-O-098	02/07/23	EX	ORD: Modify The 2023-2027 Capital Plan And 2023 Capital Budget To
		PW	Increase Expenditures For Capital Project #202109-Airport Parking Lot
		FI	Rehabilitation And Expansion
177-0-099	02/07/23	EX	ORD: Amend Waukesha County Code To Prohibit Use Of E-Cigarettes
	02/07/23		Anywhere Tobacco Smoking Is Prohibited
177-A-032	02/06/23	EX	APPT: Lance Matthews Appointment Of County Representative To The
			Eagle Spring Lake Management District Board
177-O-100	02/08/23	HS	ORD: Establish And Approve The Department Of Health And Human
	02/08/23		Services 2023 Fees For Community Mental Health, Developmental
			Disabilities, And Substance Use Disorder Services
177-0-101	02/03/23	FI	ORD: Authorize The Issuance Of Not To Exceed \$12,500,000 General
	02/03/23		Obligation Promissory Notes For Capital Projects
177-0-102	02/07/23	FI	ORD: Modify The 2023 Budget By Transferring Carryover Funds From
	02/07/23		2022 Unexpended Appropriations To 2023 Budgeted Appropriations
177-0-103	03/06/23	LU	ORD: Amend The Waukesha County Shoreland And Floodland Protection
177 0 103	03/06/23		Ordinance District Zoning Map Of The Town Of Ottawa By Rezoning
	03/00/23		Certain Lands Located In Part Of The SE ¼ Of Section 17, T6N, R17E, Town
			Of Ottawa, Waukesha County, Wisconsin, From The A-5 Mini Farm District
			To The P-I Public And Institutional District RZ111
177-0-104	03/06/23	LU	ORD: Authorize Participation In Wisconsin Outdoor Motorized
177 0 104	03/06/23		Recreational Trails Aid For Waukesha County Snowmobile Trails
177-O-105	03/08/23	LU	ORD: Modify The 2023 Community Development Fund To Accept
177-0 105	03/08/23	FI	Additional Home Program Income, And Carryover Budget Authority From
	03/00/23	' '	2022 To 2023
177-0-106	03/08/23	LU	ORD: Modify The 2023 Community Development Fund Budget To Accept
177-0-100	03/08/23	FI	Actual Home Investment Partnership (HOME) Program Funds, And Actual
	03/00/23	' '	Community Development Block Grant (CDBG) Program Funds
177-0-107	03/08/23	PW	ORD: Modify The 2022 Department Of Public Works Airport Operations
177-0-107	03/08/23	FI	Fund Budget For Increased Contracted Snow Removal Expenses And
	03/00/23	' '	Increased Fuel, Lease, And Recovery Revenue
177-A-033	02/13/23	EX	APPT: Mary Berg Reappointment Of Waukesha County Resident To The
177-A-035	02/13/23	LA	Waukesha County Health & Human Services Board
177-A-034	02/13/23	EX	APPT: Christine Howard Reappointment Of Waukesha County Board
177-A-054	02/13/23	L	1
177-A-035	02/13/23	EX	Supervisor To The Waukesha County Health & Human Services Board
177-A-033	02/13/23	EX	APPT: Don Richmond Appointment Of Citizen Member To The Aging &
177 4 026	02/22/22	FV	Disability Resource Center Board For Waukesha County
177-A-036	02/22/23	EX	APPT: Abbie Liedtke Appointment of Waukesha County Representative
			To The GFL Emerald Park Landfill Standing Committee And The WM Metro
477.0.400	02/06/22	1111	Waste Facilities Monitoring Committee
177-0-108	03/06/23	JU	ORD: Second Amendment To Menomonee Park Cell Tower Lease With
477 0 404	03/06/23	 _	United States Cellular Operating Company LLC
177-0-109	03/08/23	10	ORD: First Amendment To Lease With CCATT LLC At UW-Milwaukee
	03/08/23	FI	Waukesha Campus

177th BOARD YEAR LEGISLATIVE ITEMS RECEIVED FOR COMMITTEE REFERRAL

File No.	Rec/Ref:	To:	Title
177-0-110	03/06/23	CB	ORD: Approve Settlement Agreements With Certain Opioid Pharmacies
	03/06/23		And Pharmaceutical Companies And Approve Wisconsin State-Local
			Allocation MOU

1 2 3	AMEND THE WAUKESHA COUNTY SHORELAND AND FLOODLAND PROTECTION ORDINANCE DISTRICT ZONING MAP OF THE TOWN OF OTTAWA BY REZONING CERTAIN LANDS LOCATED IN PART OF THE SE ¼ OF SECTION 17, T6N, R17E, TOWN
4	OF OTTAWA, WAUKESHA COUNTY, WISCONSIN, FROM THE A-5 MINI FARM
5 6	DISTRICT TO THE P-I PUBLIC AND INSTITUTIONAL DISTRICT RZ111
7	RZ111
8	WHEREAS, after proper notice was given, a public hearing was held and the subject matter of
9	this Ordinance was approved by the Town on February 6, 2023; and
10	
11	WHEREAS, the matter was referred to and considered by the Waukesha County Park and
12 13	Planning Commission, which recommended approval and reported that recommendation to the Land Use, Parks and Environment Committee and the Waukesha County Board of Supervisors,
14	as required by Section 59.692, Wis. Stats.
15	as required by Section 55.052, 441s. Statis.
16	THE COUNTY BOARD OF SUPERVISORS OF THE COUNTY OF WAUKESHA ORDAINS
17	that the Waukesha County Shoreland and Floodland Protection Ordinance District Zoning Map
18	for the Town of Ottawa, Waukesha County, Wisconsin, adopted by the Waukesha County Board
19 20	of Supervisors on June 23, 1970, is hereby amended to rezone from the A-5 Mini Farm District to the P-I Public and Institutional District, certain lands located in part of the SE ¼ of Section 17,
21	T6N, R17E, Town of Ottawa, and more specifically described in the "Staff Report and
22	Recommendation" and map on file in the office of the Waukesha County Department of Parks
23	and Land Use and made a part of this Ordinance by reference RZ111, is hereby approved.
24	
25	BE IT FURTHER ORDAINED that the Waukesha County Clerk shall file a certified copy of
26	this Ordinance with the Town of Ottawa Clerk.
27 28	BE IT FURTHER ORDAINED that this Ordinance shall be in full force and effect upon passage
29	approval and publication.
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COMMISSION ACTION

The Waukesha County Park and Planning Commission after giving consideration to the subject matter of the <u>Ordinance</u> to amend the Waukesha County Shoreland and Floodland Protection Ordinance hereby recommends <u>approval</u> of **RZ111** (School Section Lake Management **District**) in accordance with the attached "Staff Report and Recommendation".

PARK AND PLANNING COMMISSION

February 23, 2023

James Siepmann, Chairperson

Robert Peregrine

Richard Morris

William Groskopf

William Mitchell

Referred on: 03/06/23

File Number: 177-O-103 Referred to: LU 2

WAUKESHA COUNTY DEPARTMENT OF PARKS AND LAND USE STAFF REPORT AND RECOMMENDATION ZONING MAP AMENDMENT

DATE:

February 23, 2023

FILE_NO.:

RZ111

OWNER/APPLICANT:

School Section Lake Management District

c/o Paul Mainz, President

P.O. Box 310

Dousman, WI 53118-0310

TAX KEY NO.:

OTWT 1652.994.002

LOCATION:

Parcel 8, Certified Survey Map 710, Volume 4, Page 291, part of the SE ¼ of Section 17, T6N, R17E, and also a 1/6th interest in the 60 foot strip located east of and adjacent to Parcel 8, Town of Ottawa. More specifically, the approximately six acre parcel is located at the end of Dolmar Park Road adjacent to the northwest portion of the cul-de-sac, containing approximately six acres.

EXISTING USE(S):

Existing weed harvesting program and recreational.

REQUESTED USE(S):

To continue the existing uses on the property and construct a 12' x 16' shed to store tools and equipment related to the School Section Lake Management District (SSLMD) activities. Accessory buildings are a permitted accessory use in the P-I District as long as they are used in conjunction with the permitted use of the property.

EXISTING ZONING DISTRICT CLASSIFICATION(S):

A-5 Mini Farm District, and EC Environmental and C-1 Conservancy Overlay Districts.

PROPOSED ZONING DISTRICT CLASSIFICATION(S):

P-I Public and Institutional District (the EC Environmental and C-1 Conservancy Overlay Districts will not be amended).

CONFORMANCE WITH THE WAUKESHA COUNTY COMPREHENSIVE DEVELOPMENT PLAN (WCCDP) AND THE TOWN OF OTTAWA COMPREHENSIVE DEVELOPMENT PLAN (CDP):

The Town and County CDPs designate the parcel as Government and Institutional, Other Open Lands to be Preserved, and Primary Environmental Corridor. Both plans were recently amended to accommodate the proposed zoning change – the County's plan in 2021 and the Town's plan in 2019. Therefore, the proposed rezone will comply with both plans.

PUBLIC HEARING DATE:

February 6, 2023

PUBLIC COMMENT:

One adjacent resident asked if the property will be open to the public. He is concerned about trespassers. The response was that the District is a private organization, and only members of the District are currently allowed to use the property and that will continue even if the property is rezoned. If there are trespassers, the District is willing to install some 'no trespassing' signs if it is thought that it will help.

TOWN PLAN COMMISSION ACTION:

On February 6, 2023, the Town of Ottawa Plan Commission unanimously recommended approval of the zoning amendment request subject to the Town Planner's report and recommendation.

STAFF ANALYSIS:

The SSLMD, a nonprofit, privately owned organization serving the needs of the District, is created by state statute and is a special purpose unit of government focused on lake management and the provision of services to property located within its established boundaries. Current uses on the property include, but are not limited to, lake weed composting and related storage, and recreational uses. The approximately six acre property is located at the end of Dolmar Park Road and contains PEC, wetland, floodplain, an unnamed ditch, a small pond, and hydric soils.

The District wishes to continue the existing lake district uses of the property. The SSLMD also wants to construct a 12' x 16' shed to store tools and equipment related to the District's activities. Improvements to the property will require the necessary permits, including a Site Plan/Plan of Operation review, Environmental Health Division review, and Zoning and Building Permits.

The current zoning of A-5 permits primarily agricultural and rural residential uses and is the reason for the proposed zoning amendment to the P-I District so that the existing uses are in conformance with the zoning district and the Town and County CDPs.

STAFF RECOMMENDATION:

Based on the above analysis, the Planning and Zoning Division staff recommends <u>approval</u> of the request. The proposed amendment rezones the property to the P-I District which is consistent with the current and planned uses of the property. The amendment will better serve both the current uses and future plans the SSLMD has for the property, conforms with both the Town and County CDPs, and complies with the purpose and intent of the Waukesha County Shoreland and Floodland Protection Ordinance.

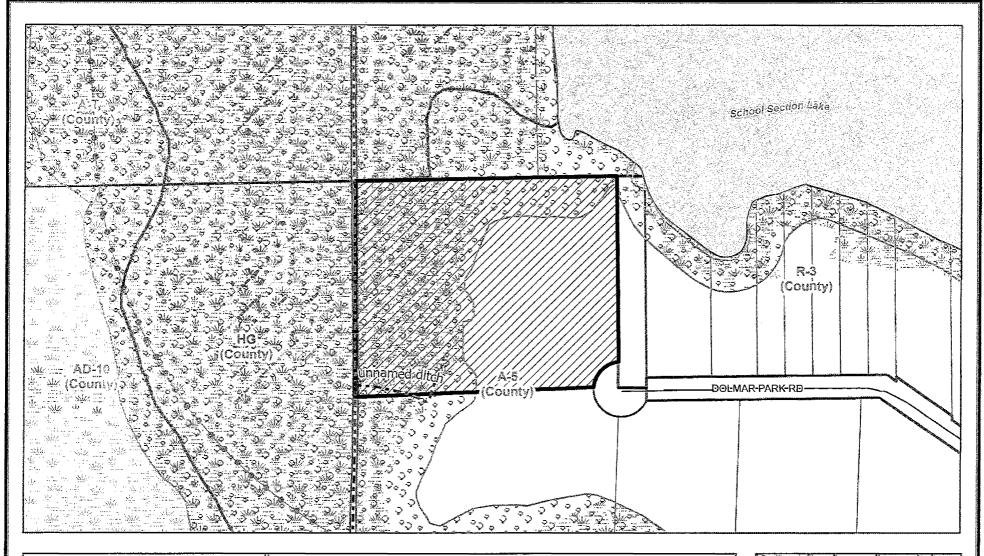
Respectfully submitted,

Sandra Q. Scherer

Sandy Scherer Senior Planner

Attachment: Map

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ZONING AMENDMENT

PART OF THE SE 1/4, SECTION 17, TOWN OF OTTAWA

300 Referred on: 03/06/23

EC Environmental Corridor Overlay C-1 Conservancy Overlay DATE OF PLAN COMMISSION. AREA OF CHANGE5.9 ACRES TAX KEY NUMBER.......OTWT 1652.994.002

COUNTY ZONING CHANGE FROM A-5 MINI FARM DISTRICT TO P-I PUBLIC AND INSTITUTIONAL DISTRICT

File Number: 177-0-103

Prepared by the Waukesha County Department of Parks and Land Use



1	AUTHORIZE PARTICIPATION IN WISCONSIN OUTDOOR MOTORIZED
2 3	RECREATIONAL TRAILS AID FOR WAUKESHA COUNTY SNOWMOBILE TRAILS
4	WHEREAS, the Waukesha County Department of Parks and Land Use, in cooperation with the
5	Waukesha County Snowmobile Association, Inc., utilizes the State of Wisconsin Department of
6	Natural Resources – Outdoor Motorized Recreational Trails Aid for acquisition, insurance,
7 8	development and maintenance of public snowmobile trails; and
9	WHEREAS, Waukesha County Snowmobile Association, Inc. acquires, insures, and maintains
10	snowmobile trails for public outdoor snowmobile trail use; and
11	F
12	WHEREAS, a Waukesha County Board ordinance indicating a desire to participate in the
13	program is required annually to apply for and receive Outdoor Motorized Recreational Trails Aid
14	for public snowmobile trails under sec. 23.09(26), Wis. Stats.; and
15 16	WHEREAS, Waukesha County has been a successful annual participant in the Outdoor
17	Motorized Recreational Trails Aid grant program since 2000; and
18	
19	WHEREAS, the State of Wisconsin requires Waukesha County to coordinate, apply for and
20	disburse snowmobile funds; and to execute a separate agreement with Waukesha County
21	Snowmobile Association, Inc. which includes all required grant documentation for funding to be
22 23	provided to Waukesha County; and
24	WHEREAS, the grant funds to be received and disbursed have been incorporated in the 2023
25	Waukesha County Department of Parks and Land Use budget.
26	
27	THE COUNTY BOARD OF SUPERVISORS OF THE COUNTY OF WAUKESHA ORDAINS
28	that Waukesha County desires to receive Outdoor Motorized Recreational Trails Aid pursuant to
29 30	sec. 23.09(26), Wis. Stats. for program year 2023-2024.
31	BE IT FURTHER ORDAINED that the Director of the Department of Parks and Land Use or his
32	designee is authorized to act on behalf of Waukesha County to submit an application to the State
33	of Wisconsin Department of Natural Resources for any financial aid that may be available
34	pursuant to sec. 23.09(26), Wis. Stats.
35	
36 37	BE IT FURTHER ORDAINED that the Director of the Department of Parks and Land Use or his designee is authorized to execute an agreement on behalf of Waukesha County with the
38	Waukesha County Snowmobile Association, Inc., in a form to be approved by Corporation
39	Counsel, for the maintenance of Waukesha County public snowmobile trails and distribution of
40	related program funds.
41	
42	BE IT FURTHER ORDAINED that the Director of the Department of Parks and Land Use or his
43	designee is authorized to take all necessary actions and execute any necessary additional
44 45	documents in order to effectuate the purposes of the agreement and to undertake, direct and complete approved projects with Outdoor Motorized Recreational Trails Aid received.
TJ	complete approved projects with Outdoor Motorized Recreational Trans Aid received.



Department of Parks and Land Use

Agreement Between Waukesha County Snowmobile Association, Inc. and Waukesha County for Maintenance of Waukesha County Public Snowmobile Trails and Distribution of Funds Under the Wisconsin Department of Natural Resources Snowmobile Aids

Program

This Agreement is made by and between Waukesha County Snowmobile Association, Inc. herein called "Contractor", and Waukesha County, herein called "County", a Wisconsin municipal corporation, for the maintenance of public snowmobile trails located within Waukesha County pursuant to §23.09(26) and §350.12(4), Wis. Stats.

A. TERM OF AGREEMENT:

1) This Agreement is in effect from November 1, 2023 through March 30, 2024, renewable annually at the option of County.

B. SCOPE OF WORK:

Parties agree that the scope of work under this Agreement shall be limited to public snowmobile trails within the legal boundaries of Waukesha County. Contractor must obtain the County's written approval for any work performed outside the County's borders to be made part of this Agreement.

The Contractor shall perform the following services on an annual basis:

- Verify with private landowners and the County that there are valid land use agreements on file with the County securing public access and use of land for snowmobiling by the public.
- 2) Prepare the trails for public use by grading, brushing, leveling, and performing other preparatory work necessary to provide safe riding conditions.
- 3) Install deck protection over surface of all multi-use trail bridges, to protect bridge decking and to provide for safe riding conditions. Inspect planking regularly, and close trail at bridge crossing immediately upon discovery of damaged or missing planking. Re-open bridge crossing only after repairs to planking are complete. All planking to be removed by April 1st each year.
- 4) Install and maintain snowmobile highway, trail, and guide signs conforming to NR 50.09 requirements. Coordinate signage with County and State departments.

Park System

515 W Moreland Blvd., AC 230 • Waukesha, Wisconsin 53188-3878 Phone: (262) 548-7790 • Fax: (262) 896-8071 • www.waukeshacountyparks.com

- 5) Provide equipment and labor necessary to maintain and groom the trails in a safe riding condition.
- 6) Groom and maintain snowmobile trails to the minimum standards required under NR 50.09 and any other State or County rule or regulation.
- 7) Periodically inspect trails to ensure safe riding conditions. Notify Waukesha County Department of Parks and Land Use, Parks System Division of trail conditions as requested and provide current trail maps as requested.
- 8) Keep Snow Conditions Recorded Hotline up to date with trail condition/status. Indicate conditions as "Closed, Poor, Fair, Good, or Excellent", status as "Closed, Partially Open (indicate which trails), or Open", the amount of snow base in inches, and if the trails have been groomed. Inform County whenever conditions change so Department of Tourism website and County website can be updated.
- 9) Install and maintain approved trail open/closed signage that includes snow depth requirements at all major access points where snowmobile trail follows a multi-use trail corridor (i.e. Ice Age Trail, Bugline). Multi-use trail signs shall not be removed or covered without permission of agency placing the sign.

A. DISTRIBUTION OF FUNDS UNDER THE SNOWMOBILE AIDS PROGRAM

The County shall distribute funds available under the Snowmobile Aids Program as follows:

- 1) The County shall reimburse the Contractor for actual maintenance performed by multiplying the State of Wisconsin Department of Natural Resources approved Snowmobile Trail Maintenance rate per mile then in effect times the number of certified miles of Waukesha County public snowmobile trails maintained by Contractor, up to the maximum grant funding provided by the State of Wisconsin Department of Natural Resources. County agrees to distribute supplementary snowmobile trail maintenance payments provided by the State to Contractor subject to availability and eligibility.
- 2) Contractor agrees that above outlined services shall be provided for the amount stated in the preceding paragraph. Contractor understands that supplementary snowmobile trail maintenance payments are subject to availability and conditions and that as such, may not be available for distribution to Contractor. Contractor agrees that trails shall be maintained in a safe riding condition until the end of the snowmobiling season even if funds are exhausted prior to the end of the season.
- 3) Contractor shall submit to County requests for distribution of funds on Snowmobile Automated Recording System (SNARS) provided by the Department of Natural Resources. Requests must be submitted to the County by the 25th day of each month. Distribution of funds by County is contingent upon approval of work by County and/or the Department of Natural Resources and the availability of State Snowmobile Aids Program funds.

B. ADDITIONAL PROVISIONS

1) Contractor agrees that it is working in the capacity of an independent contractor with respect to the services provided. Nothing in this Agreement shall be considered to create the relationship of employer and employee between the parties.

2 | P a g e Revised 03/02/2023

2) Contractor agrees that it will, at all times during the term of this Agreement, keep in force and effect insurance policies required by this Agreement as noted below. Insurance certificates must be issued by a company or companies authorized to do business in the State of Wisconsin and that are satisfactory to the County. Such insurance shall be primary. Prior to commencing any on-site activity, the Contractor shall furnish the County with a Certificate of Insurance issued and upon request, certified copies of the required insurance policies. The Certificate shall reference this Agreement and provide for thirty (30) days' advance notice of cancellation or non-renewal during the term of this Agreement.

Failure to submit or maintain the insurance requirements may void this Agreement at the County's discretion. Minimum requirements are as follows:

<u>Commercial General Liability:</u> Policy shall be written to provide coverage for, but not limited to, the following: (1) Premises and Operations, (2) Products and completed operations, (3) Personal injury, (4) Blanket contractual coverage, (5) Broad form property damage and (6) Independent Corporation's coverage.

Limits of liability not less than: \$1,000,000 General aggregate; \$1,000,000 Products/Completed operations aggregate; \$1,000,000 Personal Injury; \$1,000,000 Each Occurrence. Waukesha County, its boards, commissions, agencies, officers, employees and representatives shall be named as additional insureds and be so stated on the Certificate(s) of Insurance.

- 3) Contractor agrees to protect, indemnify, defend and hold harmless Waukesha County, its boards, commissions, officers, agents, employees and representatives from and against any and all liability, including claims, causes of actions, damages, demands, costs, expenses, losses and damage to any property or bodily injury to any person including death, as a result of any act or omission of the Contractor, its officers, members, employees, agents, representatives, directors in connection with the terms of this Agreement. In case any action or proceeding is brought against Waukesha County by reason of any such claim or cause of action, the Contractor upon notice from Waukesha County shall defend Waukesha County and be responsible for payment of attorney fees and costs.
- 4) All changes that are mutually agreed upon by and between the County and the Contractor shall be in writing and designated as written amendments to this Agreement. Parties understand that County does not control the availability of funds and that funds may not be available for each year of the Agreement.
- 5) Nothing in this Agreement shall bind County to fund the snowmobile maintenance program should State funds no longer be available. County shall notify the Contractor on an annual basis as soon as funding amounts for the following snowmobiling season become available.
- 6) Termination of Agreement for Cause. If, through any cause, the Contractor fails to fulfill in a timely and proper manner its obligations under this Agreement, or if the Contractor violates the covenants, agreements or stipulations of this Agreement, the County shall

Revised 03/02/2023

Referred on: 03/06/23 File Number: 177-O-104 Referred to: LU 4

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have the right to terminate this Agreement by giving written notice to the Contractor of such termination delivered pursuant to Section 8. The written notice shall be provided to the Contractor at least thirty days before the effective date of such termination. County may permit the Contractor a reasonable amount of time to cure a breach of the terms of this Agreement if the breach is amenable to a cure and County shall not unreasonably withhold such permission.

- 7) Any lawsuits related to or arising out of disputes under this Agreement shall be commenced and tried in the Circuit Court of Waukesha County, Wisconsin and the County and Contractor shall submit to the jurisdiction of the Circuit Court for such lawsuits. This Agreement and any disputes arising under it shall be governed by the laws of the State of Wisconsin.
- 8) Any and all notices shall be in writing and deemed served upon depositing same with the United States Postal Service as "Certified Mail, Return Receipt Requested", addressed to the Contractor at:

Harold Butschke
Waukesha County Snowmobile Association
730 East Harvard Street
Oconomowoc WI 53066
Cell 262-468-8437

and to the County at:

Rebecca Mattano Waukesha County Department of Parks & Land Use 515 W. Moreland Blvd. AC 230 Waukesha, WI 53188 262-548-7807

All other correspondence shall be addressed as above but may be sent by "Regular Mail" and deemed delivered upon receipt by the addressee.

In Witness Whereof, the parties hereto have executed this Agreement on the dates recited below:

Signatures Follow

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Revised 03/02/2023

WAUKESHA COUNTY

By:	
By:	Date
WAUKESHA COUNTY SNOWMOBILE ASSOCIATION	I, INC.
By:(Signature)	Date:
By:(Print name)0	Title:
The above signatory on behalf of the Waukesha County state that he is authorized to execute agreements and a Snowmobile Association, Inc. and to so bind the Wauke terms.	contracts on behalf of the Waukesha County
Initials	

5 | Page

Revised 03/02/2023

1 2 3	MODIFY THE 2023 COMMUNITY DEVELOPMENT FUND TO ACCEPT ADDITIONAL HOME PROGRAM INCOME, AND CARRYOVER BUDGET AUTHORITY FROM 2022 TO 2023
4 5 6 7 8	WHEREAS, the U.S. Department of Housing and Urban Development (HUD) has qualified Waukesha County as an entitlement Urban County and, along with participating counties and municipalities, is eligible to receive federal funding to provide benefits primarily to low and moderate income households as well as to meet specific community needs through the
9 10	Community Development Block Grant (CDBG) and HOME Investment Partnership (HOME) programs; and
11 12 13	WHEREAS, Waukesha County, as the grantee, has been authorized by the Waukesha County Board of Supervisors to participate and accept funding; and
14	
15 16 17	WHEREAS, unencumbered and unexpended CDBG grant funds of \$201,223 and HOME grant funds of \$3,454,547 are requested for carryover from 2022 to 2023; and
17 18 19	WHEREAS, excess HOME Program Income of \$637,905 was received in 2022; and
20 21 22	WHEREAS, HUD requires Program Income to be used first, and can be given out as entitlement grants to satisfy this requirement, and these funds are requested for appropriation in order to reconcile to HUD financial records; and
23 24 25	WHEREAS, Enrolled Ordinances 175-9 and 175-47 accepted and appropriated \$2,196,332 for the CDBG-Coronavirus (CV) program grant; and
26 27 28	WHEREAS, while the CDBG-CV program was scheduled to be completed at the end of September 2022, HUD extended the CDBG-CV program to conclude in December 2025; and
29 30 31	WHEREAS, \$225,593 of remaining CDBG-CV grant funds were not expended or encumbered and are being requested to be carried over to 2023; and
32 33 34	WHEREAS, Enrolled Ordinances 176-73 appropriated \$2,500,000 for the US Treasury Department Emergency Rental Assistance (ERA #2) program grant; and
35 36 37	WHEREAS, \$900,492 of remaining ERA#2 grant funds were not expended or encumbered and are being requested to be carried over to 2023; and
38 39 40 41	WHEREAS, Enrolled Ordinances 176-26 accepted the HOME-American Rescue Plan Act (ARPA) program grant and \$1,250,000 of these funds were appropriated in the 2022 Adopted Budget to create affordable housing and services to assist individuals at risk of experiencing
42 43	homelessness; and
44 45 46	WHEREAS, \$1,204,170 of remaining HOME-ARPA grant funds were not expended or encumbered and are being requested to be carried over to 2023; and

47 48 49 50	WHEREAS, subgrantees, participating counties and municipalities will enter into subgrantee agreements with Waukesha County to use HUD funds mainly designated to benefit low and moderate income (at-risk) persons and specific needs of participating jurisdictions.
51 52 53 54	THE COUNTY BOARD OF SUPERVISORS OF THE COUNTY OF WAUKESHA ORDAINS that that the Community Development program administration is authorized to accept the additional 2022 HUD funding for the HOME program income of \$637,905.
55 56 57 58 59 60 61	BE IT FURTHER ORDAINED that the 2023 Community Development Fund budget be modified by appropriating operating expenditures of \$201,223 for the CDBG program, appropriating operating expenditures of \$4,092,452 for the HOME program, appropriating operating expenditures of \$225,593 for the CDBG-CV grant program, appropriating operating expenditures of \$900,492 for the Emergency Rental Assistance grant program (ERA #2), appropriating operating expenditures of \$1,204,170 for the HOME-ARPA grant program, and increasing general government revenue by \$6,623,930 to fund these expenditures.
62 63 64 65 66	BE IT FURTHER ORDAINED that the Community Development program be authorized to execute agreements or appropriate amendments to existing subgrantee agreements which are deemed reasonable and appropriate by the County Executive and the Community Development Block Grant Board and the HOME Consortium Board.

FISCAL NOTE

MODIFY THE 2023 COMMUNITY DEVELOPMENT FUND TO ACCEPT ADDITIONAL HOME PROGRAM INCOME, AND CARRYOVER BUDGET AUTHORITY FROM 2022 TO 2023

This ordinance authorizes the Community Development Fund budget to accept additional funding for the HOME program and modifies the budget accordingly. The ordinance also authorizes the carryover of expenditure authority for the CDBG, HOME, Coronavirus (CV), HOME-ARPA, and Emergency Rental Assistance (ERA#2) grants from 2022 to 2023 (see table below).

Ordinance Detail	
Category	Amount
Excess HOME Program Income	637,905
Carryover for CDBG Program	201,223
Carryover for HOME Program	3,454,547
Carryover for CDBG-Coronavirus (CV)	225,593
Carryover of Emergency Rental Assistance #2 Grant	900,492
Carryover of HOME-ARPA	1,204,170
Total	6,623,930

This ordinance results in no direct tax levy impact.

William Duckwitz

William Pudnity

Budget Manager

3/5/2023 AK

JE# 2023-00002248

1 2 3	MODIFY THE 2023 COMMUNITY DEVELOPMENT FUND BUDGET TO ACCEPT ACTUAL HOME INVESTMENT PARTNERSHIP (HOME) PROGRAM FUNDS, AND ACTUAL COMMUNITY DEVELOPMENT
4 5	BLOCK GRANT (CDBG) PROGRAM FUNDS
6	WHEREAS, the U.S. Department of Housing and Urban Development (HUD) has qualified
7 8	Waukesha County as an entitlement Urban County and, along with participating counties and municipalities, is eligible to receive federal funding to provide benefits primarily to low and
9 10	moderate income households as well as to meet specific community needs through the Community Development Block Grant (CDBG) and HOME Investment Partnership (HOME)
11	programs; and
12 13	WHEREAS, Waukesha County, as the grantee, has been authorized by the Waukesha County
14	Board of Supervisors to participate and accept funding; and
15	
16 17	WHEREAS, the Parks and Land Use Department 2023 Budget includes HUD funding estimated at \$1,461,566 for the CDBG program and \$1,634,455 for the HOME program for total HUD
18 19	funding of \$3,096,021; and
20	WHEREAS, the final 2023 HUD grant awarded for the CDBG program is \$37,549 lower for
21 22	CDBG at \$1,424,017, and is \$2,038 lower for the HOME Program at \$1,632,417; and
23	WHEREAS, subgrantees, participating counties and municipalities will enter into subgrantee
24 25	agreements with Waukesha County to use HUD funds mainly designated to benefit low and moderate income (at-risk) persons and specific needs of participating jurisdictions.
26	moderate income (at-risk) persons and specific needs of participating jurisdictions.
27	THE COUNTY BOARD OF SUPERVISORS OF THE COUNTY OF WAUKESHA ORDAINS
28 29	that the 2023 Community Development Fund budget be modified by reducing operating expenditures of \$37,549 in the CDBG program, reducing operating expenditures of \$2,038 in the
30	HOME program, and reducing general government revenue \$37,549 in the CDBG program, and
31	reducing general government revenue \$2,038 in the HOME program.
32 33	BE IT FURTHER ORDAINED that the Community Development program be authorized to
34	execute agreements or appropriate amendments to existing subgrantee agreements which are
35	deemed reasonable and appropriate by the County Executive and the Community Development
36	Block Grant Board and the HOME Consortium Board.

FISCAL NOTE

MODIFY THE 2023 COMMUNITY DEVELOPMENT FUND BUDGET TO ACCEPT ACTUAL HOME INVESTMENT PARTNERSHIP (HOME) PROGRAM FUNDS, AND ACTUAL COMMUNITY DEVELOPMENT BLOCK GRANT (CDBG) PROGRAM FUNDS

In order to keep the County budget and record keeping consistent with Federal U.S. Department of Housing and Urban Development (HUD) reporting requirements, this ordinance modifies the 2023 Community Development Block Grant (CDBG) and Community Development HOME Investment Partnership Program (HOME) operating expenditures appropriations to match the HUD-approved CDBG and HOME programs grant amounts. The 2023 HUD awarded amounts for the County's CDBG program is at \$1,424,017, which is \$37,549 less than the 2023 adopted budget appropriation of \$1,461,566. In addition, the 2023 HUD awarded amounts for the County's HOME program is \$1,632,417, which is \$2,038 less than the 2023 adopted budget appropriation of \$1,634,455. The adopted budget is not based on the final HUD grant notification due to timing delays in receiving the federal budget approbation grant award notification.

This ordinance also authorizes the subgrantee agreements necessary to cover allocations to be made by the County Executive, Community Development Block Grant Board, and the HOME Consortium Board for changes in funding.

This ordinance results in no direct tax levy impact.

William Duckwitz

William Durbity

Budget Manager 3/5/2023

AK

JE# 2023-00002246

1 2 3 4	MODIFY THE 2022 DEPARTMENT OF PUBLIC WORKS AIRPORT OPERATIONS FUND BUDGET FOR INCREASED CONTRACTED SNOW REMOVAL EXPENSES AND INCREASED FUEL, LEASE, AND RECOVERY REVENUE
5 6 7 8	WHEREAS, the Airport Operations Fund budget of the Department of Public Works is set up as an enterprise fund to account for the expenses and revenues associated with providing services and operating the Waukesha County Airport; and
9 10	WHEREAS, the Airport Fund is not supported by tax levy; and
11 12 13	WHEREAS, the Airport uses an external contractor for snow removal services for Airport roadways, parking lots, taxiways and runways; and
14 15 16 17	WHEREAS, the higher-than-average number of contractor deployments and material costs for de-icing treatments has resulted in the expense lines for these services being overbudget in 2022; and
18 19 20	WHEREAS, enrolled ordinance 177-50 approved on September 27, 2022 modified the Airport Operations Fund to account for already over budget expenses and estimates of remaining costs for upcoming winter weather in 2022; and
21 22 23	WHEREAS, weather conditions and subsequent deployment costs for November and December have exceeded averages; and
24 25 26 27	WHEREAS, the Airport Operations Fund receives fuel flowage revenue of \$0.10 per gallon of fuel sold by Fixed Based Operators; and
28 29 30	WHEREAS, gallons of fuel sold and corresponding fuel flowage revenues were higher than budgeted in 2022; and
31 32 33	WHEREAS, the Airport leases space to the fixed base operators, aeronautical service providers, and aircraft owners; and
34 35 36	WHEREAS, lease revenue was estimated conservatively in the 2022 adopted budget, resulting in those revenues being over budget.
37 38 39 40	WHEREAS, the Airport receives revenue for reimbursements from fixed base operators for utility costs, reimbursements from the snow removal contractor for damage to airport equipment and property, sale of airport security access badges, and advertising; and
41 42	WHEREAS, recovery revenue was higher than budgeted in 2022.
42 43 44 45 46	THE COUNTY BOARD OF SUPERVISORS OF THE COUNTY OF WAUKESHA ORDAINS that the 2022 Department of Public Works, Airport Operations Fund budget be modified to increase operating expenses for contracted snow removal costs by \$80,000 and to increase charges for services revenue by \$70,000 and recovery revenues by \$10,000.

File Number: 177-O-107

Referred to: PW-FI

Referred on: 03/08/23

FISCAL NOTE

MODIFY THE 2022 DEPARTMENT OF PUBLIC WORKS, AIRPORT OPERATIONS FUND BUDGET FOR INCREASED CONTRACTED SNOW REMOVAL EXPENSES AND INCREASED FUEL, LEASE, AND RECOVERY REVENUE

This ordinance modifies the 2022 Airport Fund budget to increase expenses \$80,000 for above budget snow removal costs, and funds the increased expenses with higher fuel, lease, and recovery revenue. Department management is working the Department of Administration on solutions, which include re-negotiating vendor payments and evaluating whether to bring some or all of snow removal in-house.

William Duckwitz Budget Manager

3/6/2023

JE# - 2022-00011917

William Pudnity



OFFICE OF THE COUNTY EXECUTIVE

Мемо:

DATE:

February 13, 2023

TO:

Chairman Paul Decker

FROM:

Paul Farrow

RE:

Reappointment to the Health & Human Services Board

I am pleased to submit to the County Board for your consideration the reappointment of Mary Berg to serve as a member on the Waukesha County Health & Human Services Board. If reappointed, Ms. Berg's term will expire in April 2026.

PF:ha

cc: Shan

Shannon Gustavson

Referred on: 02/13/23 File Number: 177-A-033 Referred to: EX



MEMO:

DATE:

February 13, 2023

TO:

Chairman Paul Decker

FROM:

Paul Farrow

RE:

Reappointment to the Health & Human Services Board

I am pleased to submit to the County Board for your consideration the reappointment of Christine Howard to serve as a member on the Waukesha County Health & Human Services Board. If reappointed, Ms. Howard's term will expire in April 2026.

PF:ha

cc:

Shannon Gustavson

Referred on: 02/13/23 File Number: 177-A-034 Referred to: EX



Мемо:

DATE:

February 13, 2023

TO:

Chairman Paul Decker

FROM:

Paul Farrow

RE:

Appointment of Citizen Member to the Aging & Disability Resource Center

Board

This letter is submitted to recommend Mr. Don Richmond be appointed to the Aging & Disability Resource Center Board for Waukesha County. Mr. Richmond is a current driver for the Seniors on the Go Taxi Service that is located in Mukwonago, WI. This term would expire March of 2026.

PF:ha

cc:

Mary Smith

Referred on: 02/13/23 File Number: 177-A-035 Referred to: EX



OFFICE OF THE COUNTY EXECUTIVE

MEMO:

DATE:

February 22, 2023

TO:

Chairman Paul Decker

FROM:

Paul Farrow

RE:

Appointment of Abbie Liedtke to the GFL Emerald Park Landfill Standing

Committee and the WM Metro Waste Facilities Monitoring Committee

This letter is submitted to recommend Abbie Liedtke to the GFL Emerald Park Landfill Standing Committee and the WM Metro Waste Facilities Monitoring Committee. She is recommended as the replacement for Analiese Smith as the Waukesha County representative on these two committees. The Committees were created through the adopted Siting Agreements for the Emerald Park and Metro Landfills in Franklin and Muskego. Abbie has worked for Waukesha County since 2015 and currently serves as the Recycling and Solid Waste Supervisor in the Department of Parks & Land Use - Land Resources Division following Analiese's promotion to the Workforce Development Board Director in January.

PF:ha

cc:

Alan Barrows

Referred on: 2/22/23 File Number: 177-A-036 Referred to: EX

1 2 3	SECOND AMENDMENT TO MENOMONEE PARK CELL TOWER LEASE WITH UNITED STATES CELLULAR OPERATING COMPANY LLC
4 5 6 7 8	WHEREAS, Waukesha County leased to United States Cellular Operating Company LLC ("U.S. Cellular") certain Premises, therein described, that are a portion of the Property located at W204 N 7987 Lannon Road in the Village of Menomonee Falls, Wisconsin commonly known as Menomonee Park for the installation and operation of a communications service system facility, including related antenna equipment and fixtures; and
9 10 11	WHEREAS, U.S. Cellular desires to replace, modify or relocate various equipment, antennas and/or feedlines on the Tower in order to update aged equipment; and
12 13 14 15	WHEREAS, the County is willing to permit the upgrades, and otherwise amend the Lease with U.S. Cellular without requiring an increase in rent; and
16 17	WHEREAS, it is therefore necessary and desirable for the parties to execute an amendment to the Lease to formalize their agreement.
18 19 20 21 22 23	THE COUNTY BOARD OF SUPERVISORS OF THE COUNTY OF WAUKESHA ORDAINS that the Second Amendment to Lease Agreement between the County and United States Cellular Operating Company LLC for use of the Tower and surrounding lands is hereby approved.
24 25 26	BE IT FURTHER ORDAINED that the Director of Emergency Preparedness or his designee is authorized to execute the Second Amendment to Lease Agreement and any other documents necessary to effectuate the intent thereof.

SECOND AMENDMENT TO LEASE

THIS SECOND AMENDMENT TO LEASE ("**Second Amendment**"), made the _____ day of _____, 2023 is entered into between Waukesha County, Wisconsin, a quasi-municipal corporation, having a mailing address of 515 W. Moreland Blvd., Waukesha, Wisconsin 53188 ("**County**") and United States Cellular Operating Company LLC, a Delaware limited liability company, as successor in interest to United States Cellular Operating Company, having an address at Real Estate Lease Administration, 8410 West Bryn Mawr Avenue, Chicago, IL 60631, ("**Lessee**").

WHEREAS, County and Lessee's predecessor in interest entered into a Lease dated March 9, 2000, as amended by that certain First Amendment to Lease dated October 22, 2019 (the Lease as amended hereafter, the "Agreement"), whereby County leased to Lessee certain Premises, therein described, that are a portion of the Property located at W204 N 7987 Lannon Road in the Village of Menomonee Falls, Wisconsin for the installation and operation of a communication service system facility, including related antenna equipment and fixtures ("Communication Facility"); and

WHEREAS, among other things, the Agreement requires that modifications and improvements to the Communication Facility desired by Lessee that would result in additional equipment, change space requirements or change configuration, placement or number of antennas or feedlines are subject to the County's prior approval, and may result in demand for increased rent or other modification of Agreement terms; and

WHEREAS, Lessee desires to modify or relocate various equipment, antennas and/or feedlines on the Communication Facility, which the County is willing to approve so long as the Agreement is otherwise amended as required hereby, and;

WHEREAS, County and Lessee, in their mutual interest, wish to amend the Agreement as set forth below accordingly.

NOW THEREFORE, in consideration of the foregoing and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, County and Lessee agree to amend the Agreement as follows:

- 1. **Additional Equipment Modification.** County consents to the installation and operation of the additional equipment detailed in Lessee's October 31, 2022 construction plans, a copy of which is attached hereto as Exhibit 1.
- 2. **Other Terms and Conditions Remain.** In the event of any inconsistencies between the Agreement and this Second Amendment, the terms of this Second Amendment shall control. Except as expressly set forth in this Second Amendment, the Agreement otherwise is unmodified and remains in full force and effect. Each reference in the Agreement to itself shall be deemed also to refer to this Second Amendment.

3. **Capitalized Terms.** All capitalized terms used but not defined herein shall have the same meanings as defined in the Agreement.

IN WITNESS WHEREOF, the parties have caused their properly authorized representatives to execute and seal this Second Amendment on the dates set forth below.

"COUNTY"

Waukesha County, Wisconsin,

a quasi-municipal corporation
By:
Name:
Title:
Date:
"LESSEE"
United States Cellular Operating Company LLC
By:
Name:

Title: _____

LESSEE ACKNOWLEDGEMENT	
STATE OF	
STATE OF	
said state, personally appeared the basis of satisfactory evidence to be the _ Company LLC described herein and that	ar before me, the undersigned, a notary public in and for, personally known to me or proved to me on of United States Cellular Operating the instrument was signed on behalf of the limited liability ted liability company and that he./she acknowledged this the limited liability company.
	Notary Public:My Commission Expires:
COUNTY ACKNOWLEDGEMENT	
STATE OF WISCONSIN) ss: COUNTY OF WAUKESHA)	
COUNTY OF WAUKESHA)	
Bell, personally known to me or proved to a Emergency Management for Waukesha Coo	_, 2023 before me, the undersigned, personally appeared Gary me on the basis of satisfactory evidence to be the Director of unty described herein and that the instrument was signed on fized to do so, for the purposes therein contained.
	Notary Public:
	My Commission Expires:

Referred on: 03/06/23 File Number: 177-O-108 Re

	_	SCOPE OF WORK	K		
		TOWER SCOPE			
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	2	COMA ANTENNA(S) @ 124.5	TO SE RELOCATED		
TRANSMISSION CASLE(8)	3	I-SIS" COMA COAX	TO RELIAN)	
COAX JUSTERS:	-	EXISTING CDMA COAX JUMPER®	REPLACE AS NECESSARY		
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	-	MID TOWER GROUND BAR*	G.C TO VEREFY	1	
		LOWER TOWER GROUND BAR*	TO REMAIN	1	
	88	ODERNIZATION SCOPE (TO BE INSTAL	LLED)	1	
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	7	LTE AVTENNAS) @ 1245	TO SE INSTALLED		
	2	RAYCAP SPD(S)	TO BE AUSTRALIED		DI
	2	REMOTE RADIO/S:	TO BE INSTALLED		TL
TRANSMISSION	2	1-1/4" EUPEN HYBRID CABLE(S)	TO BE NATALLED		
CASLE(S)	3	RET ASAPER(S)	TO SE PISTALLED		
COAY KRAPERS: SEET-SEE FOR COANTRY AND LENGTHS	Ė	NEW LITE COAX JURIPERIS	YO BE INSTALLED		
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ATT DESIGNATION	1	LTE ANTENNA(S) @ 1760*	TO BE REMOVED		
	3	BAS-TINTSI	TO BE REMOVED	(4)	
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****		COMPOUND SCOPE			₹V :
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,	<u> </u>	SHELTER COAX PORT	ADEQUATE - TO REMAIN		
GROUND BAR(S).		SHELTER EXTERIOR GROUND BAR*	ADEQUATE - TO REMAIN		
		SHELTER INTERIOR SCOPE			
	Htt	DERNIZATION SCOPE (REMAIN/RELD)	LATE)		
GROUND BAR(S):	-	GROUND BAR AT COAX PORT	TO REMAIN		
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AUX RACK:	·	BASE SAND UNIT (BBU)	SY OTHERS		
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EQUPMENT:	5	LTE DIPLEXERS	TO SE REMOVED		W Mar
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		AR LITE ANTENNAS & COAX TO BE REMOVES F			Mill Rd
	*ERIN	IG UP TO U.S. CELLULAR STANDARDS AS NEC	ESSARY		
				ST	RUCTURA
				INVENTORY REPORT: EDGE CONSULTING REPORT #: 30472	ENGINEERS, INC. DATED: 05/03/2022
				TOWER ANALYSIS:	
				JonoLouisie Stiff	



LANNON (784320) MENOMONEE FALLS, WISCONSIN MODERNIZATION DRAWINGS PLUMBING DIAGRAM: MVP-TWR ERC B12/B5-DS+SS **DESIGN: MVP - TOWER 190' GUYED TOWER**

SITE LOCATION MAP DIRECTORY SHEET INDEX TITLE SHEET LANNON (784320) MENOMONEE FALLS, WISCONSIN SHEET TITLE NO.: U.S. CELLULAR 8410 W. BRYN MAWR AVE., SUITE 700 **(1)** G-001 TITLE SHEET CHICAGO, IL 60631 CONTACT: MICHELE ROTH C-101 SITE DI AN ENGINEERING COMPANY:
EDGE CONSULTING ENGINEERS, INC.
624 WATER STREET
PRAINEE DU SAC, WI 53576
PROJECT MANAGER: MICHAEL MUEHRER C-102 ENLARGED SITE PLAN (Y) C-501 SITE DETAILS SHELTER INTERIOR PLAN A-101 Freedter SITE LOCATION SE SITE ACQUISITION: A-501 BLOCK DIAGRAM Menomon Falts SITE ACQUISITION SOLUTIONS 19730 BELLBROOK BLVD. T-001 ANTENNA SPECIFICATIONS GRETNA, NE 68028 CONTACT: JENNI KELLIS T-002 FOURMENT SPECIFICATIONS ¥ T-003 MOUNTING SPECIFICATIONS Ŧ T-201 SITE ELEVATION T-301 ANTENNA CONFIGURATION **PROJECT INFO** T-302 ANTENNA CONSTRUBATION EQUIPMENT CONFIGURATION 7-303 7-304 EQUIPMENT CONFIGURATION SITE LOCATION: W264 N7987 LANNON RD T-501 INSTALLATION DETAILS MENOMONEE FALLS, WI MILWAUKEE COUNTY T-502 CASLE DETAILS W Good Hope Rd Ħ W W Good Hope T-503 CABLE BANDING DETAILS SITE #: 784320 Œ V-501 CABLE ROUTING MAX. APPURT (PER FCC): N/A STRUCTURE HEIGHT (PER FCC): N/A P-501 PLUMBING DIAGRAM W P-502 PLUMBING DIAGRAM TOWER OWNER: U.S. CELLULAR 8410 W. BRYN MAWR AVE., SUITE 700 CHICAGO, IL 60631 GROUNDING DETAILS E-601 SITE PHOROS R_991 SITE COORDINATES: RT. | CATE: DESCRIPTION CONTRACTOR SHALL VERSY ALL PLANS AND EXISTING DIMENSIONSHIPOND TOWNS ON SHE, MAKEDINITELY NOTIFY ENDIKEER OF ANY DESCRIPANCES PHYSIR TO PERFORMEN ANY WORK OR SE RESPONDED FOR THE SAME. **STRUCTURAL**

WISCONS/A

MICHAEL R.

MUEHRER

43316

FITCHBURG

ESSIONAL

Referred on: 03/06/23

File Number: 177-0-108

TOLL FREE: 1-800-242-8511 FAX.ALOCATE: 1-800-242-6811

WI STATUTE 182,0175 (1974) REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE

MOUNT ANALYSIS (REPLACEMENT): EDGE CONSULTING ENGINEERS, INC. REPORT #: 30472 DATED: 08/27/2022 CONCLUSION: STRUCTURALLY ADEQUATE

CONTRACTOR TO REVISIW STRUCTURAL REPORT IN ITS SITTERTY. ANY DISCREPANCIES OR DISAGNEEMENTS BETWEEN THE REPORT AND THESE PLANS SHOUR DISCREPAND PRIOR TO CONSTRUCTION.

Referred to: JU

I HEREBY CERTIFY THAT THIS PLAN SET WAS

THEREBY CERTIFY THAT THIS PLAN SET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION OTHER THAN THE EXCEPTIONS NOTED IN THE SHEET INDEX, AND THAT I AM A DULY LICENSED PROPESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF WISCONSIN

DATE 10-31-2022

🔯 Edge

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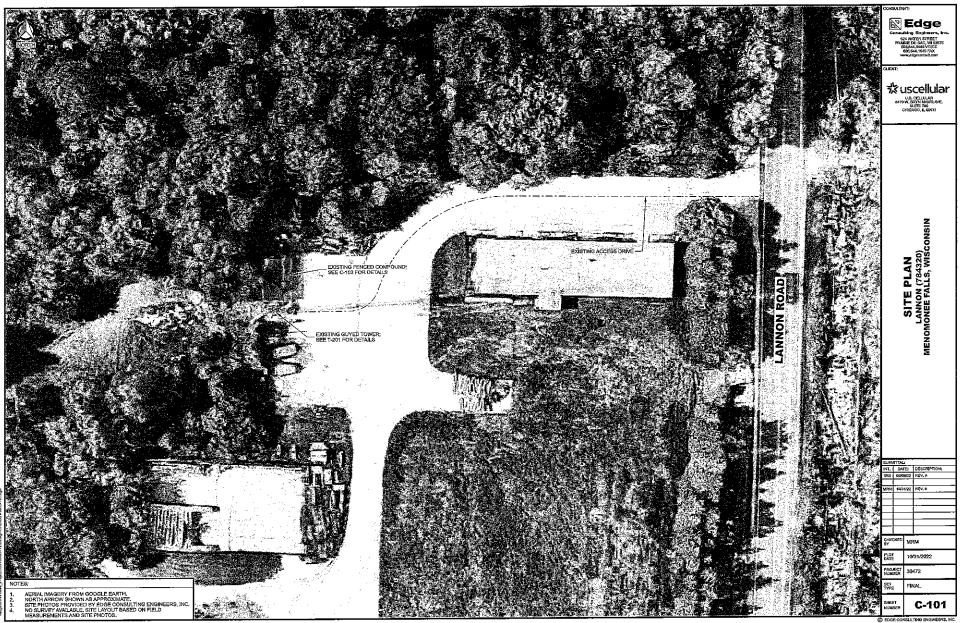
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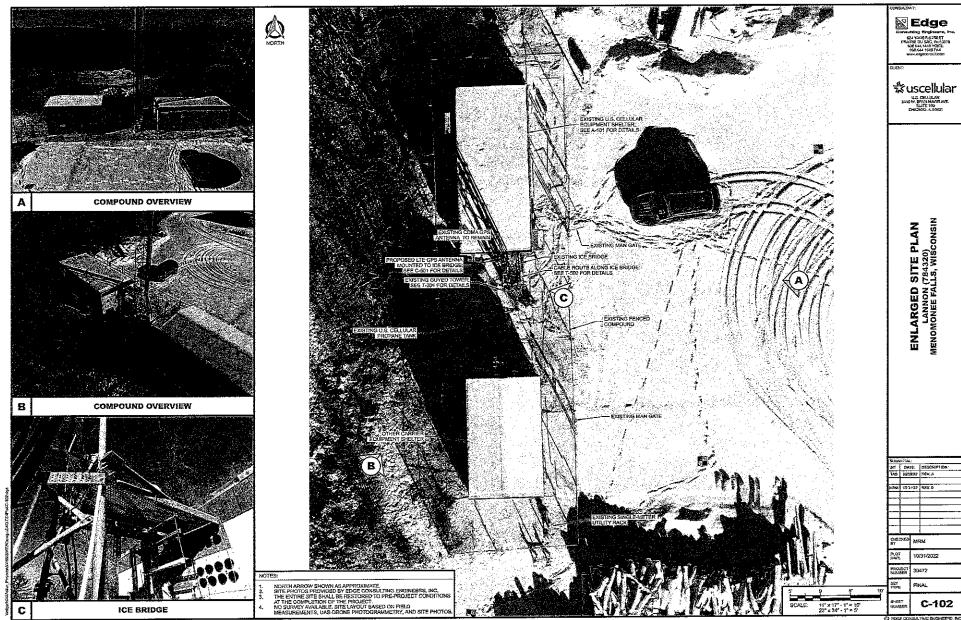
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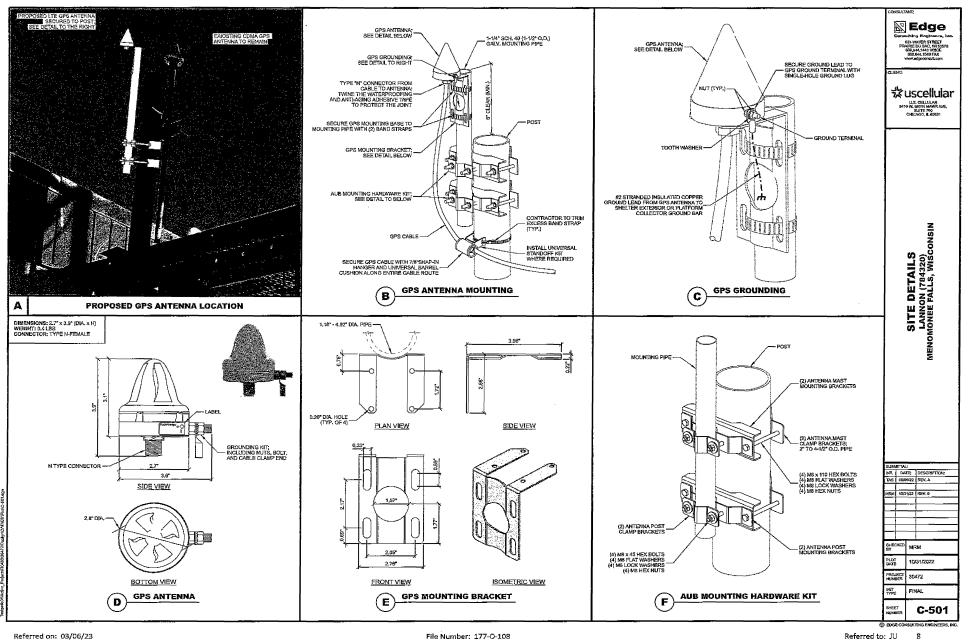


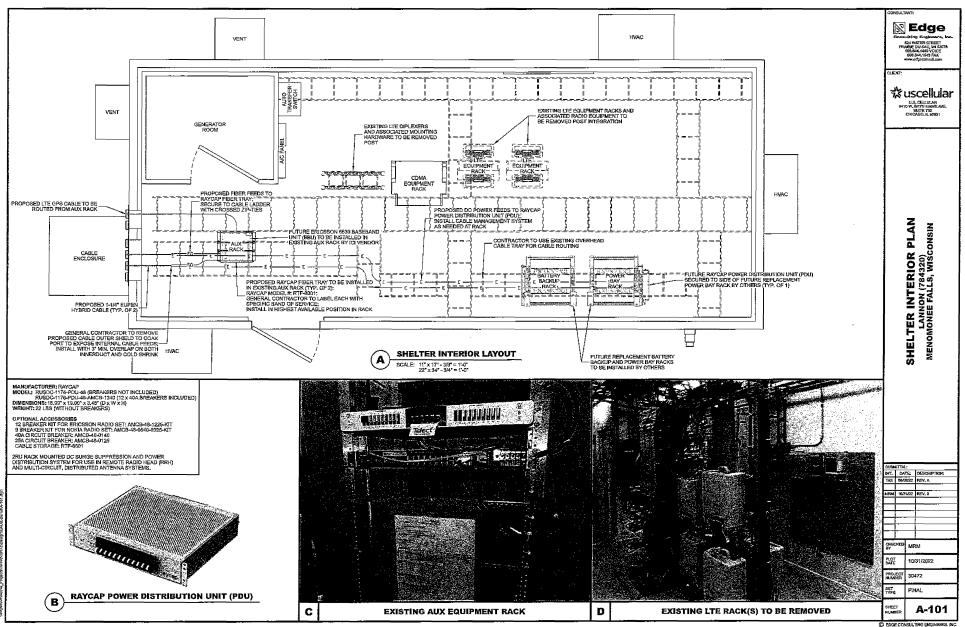
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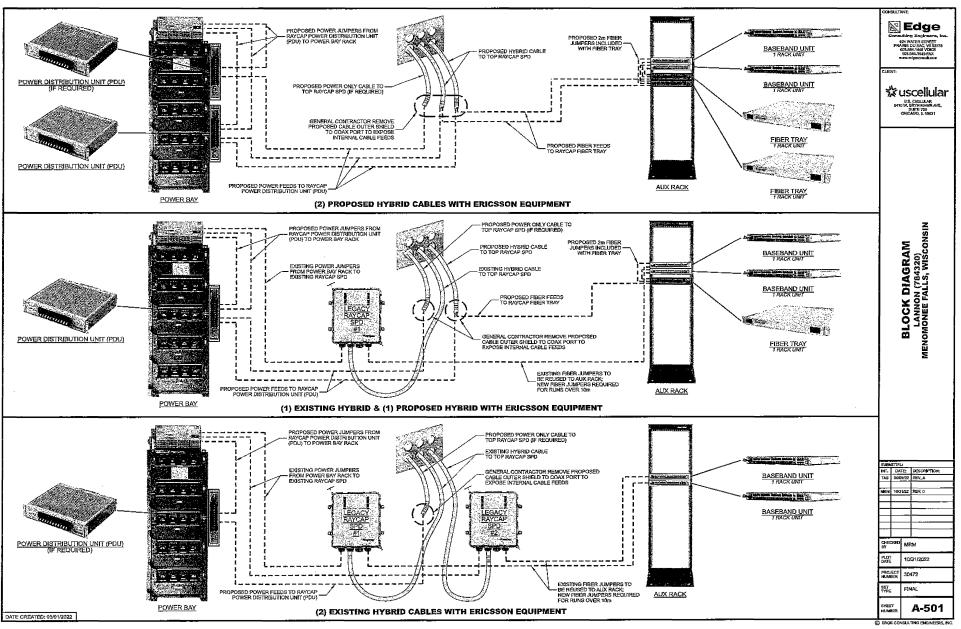
File Number: 177-0-108

Referred to: JU 6









Base Station Antennas

517-894 1595-2400	
±45°	
65*	
2"-12"x2	

Type QUA8-1LX1HX-BW65

Base Station Antenna 4-ports 617-894 /1695-2400 MFz 65*, 16 / 18 dBi, 2*-12* / 2*-12* Tig Antenna With 2 Integrated RCUs.

Mechanical Specifications

Operational Temperature(*C)

(Frontal/steral/Rearside(RI))

Wind Load at 100mph

Frequency Range(MHz)		517-694			1	1695-2400	
		617-698	695-824	824-894	1695-1920	1923-2180	2300-2400
Polaszadon					±45*		
Pottsonial 3dB Beamwidth(*)		70	65	60	₹6	83	58
Vertical 3d5 Scarrekth(*)		10.4	9.1	8.0	5,5	5	4.3
Gain (dĐi)		15.1	15.6	16.0	17.6	18.0	18.1
Electrical Downtilt		2*-12*			3*-12*		
Upper Sidelotie Suppression(dB) First		276	≥16	≥16	≥16	≥16	≥16
Front-to-Back Ratio Total Power, ± 30" (dB)		>25	≥25	≥25	×25	≥25	≥25
Cross polar ratio	Main direction(dil)	235	≥15	216	≥15	≥16	≥16
	÷60* (±6)	≥7	27	≥7	27	27	≥7
faolation posts		\$25.d6					
Isolation Frequency		≥50 ₫8					
VSWR		<1.5					
Internochiation IM3		<-150 dbq(2x43dBm carrier)					
Impedance		50Ω					
Max. Power per laput (at 50°C ambient temperature)		509 ty 300 W					
Lightning Protection		DC Ground					





Redome Material	l-mediasa		
Connector Type srid Location	4.3-16.44 (Bottom istruži irit 18 (Brimste IRCU out 1 x 8 pin female		
Dimensions,HxWxD(nanHsiches) 2436 x 355 x 765 f 95.9 x 14.0x 6.5			
Packing Size(mm)/(inches)	2710 x 460 x 275 / 106.7 x 18.1 x 10.8		
Weight .we Mouning kit(kg)/(lbs)	29/63.6		
Weight with Mounting kit(kg)/(Es)	34774.8		
Packing Weight(kg)/(lbs)	40/83		
Max. Wind Velocity(mph)	160		
Mounting heroware	¢50 mm ~ ¢115 mm		

This publication is assert to information only and to not to form part of any order or contract DENGYO reserves the right to changes specifications without prior notice.

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OLIAS-TLXTHIX-BW65 Rev.2

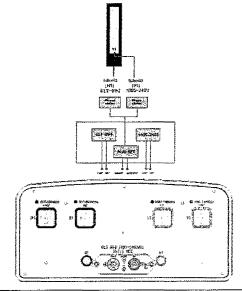
Base Station Antennas

Frequency Range	617-894 1595-2400		
Polanzation	±45°		
Half-Power Seam Width	65*		
Electrical Downlift	2° - 12°x2		

Type QUA8-1LX1HX-BW65

Protoccis		Compliant to AISG 21/3GPP		
Input voltage range		+16-+38/DC(pin 6)		
Power consumi	wer consumption <2V(stand by);<13W(motor activated)			
Connectors	AISG	2 x 8 pth connector sec. To IEC 90130-9 Accite AISG Datisy their formate Datisy chain outfernate		
	Antenna	Two motor shafi(Embedded motor)		
Hardware Interface	AISG	RS48SAB(pinSpinS);Power supply(pin6); DC return(pin7)Aca to AISG		
Adjustment time(full nange)		40 sec(typically,depending on anterex)		
Adjustment Cycles		210000		
Torque Max		≥160mN.m		
Lighthing Protection Flating		EC 61000-4-5 Current Pulse Profile, 8/20 µs 19 Repetitions Min. @ 6KA IEC 613/12-1 Annex 6 Current Pulse Profile, 19/350 µs, 200 Repetitions Min. @ 2.6KA		

COMPREHENSIVE TILT CONFIGURATION



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QUAS-1LX1HX-BW85 Rev.2

Edge

Kuscellular

U.S. CELLLIAR

GHIG W. BETEN MANUR AVE

SUITE 789

ENGLANCE, E DESSI

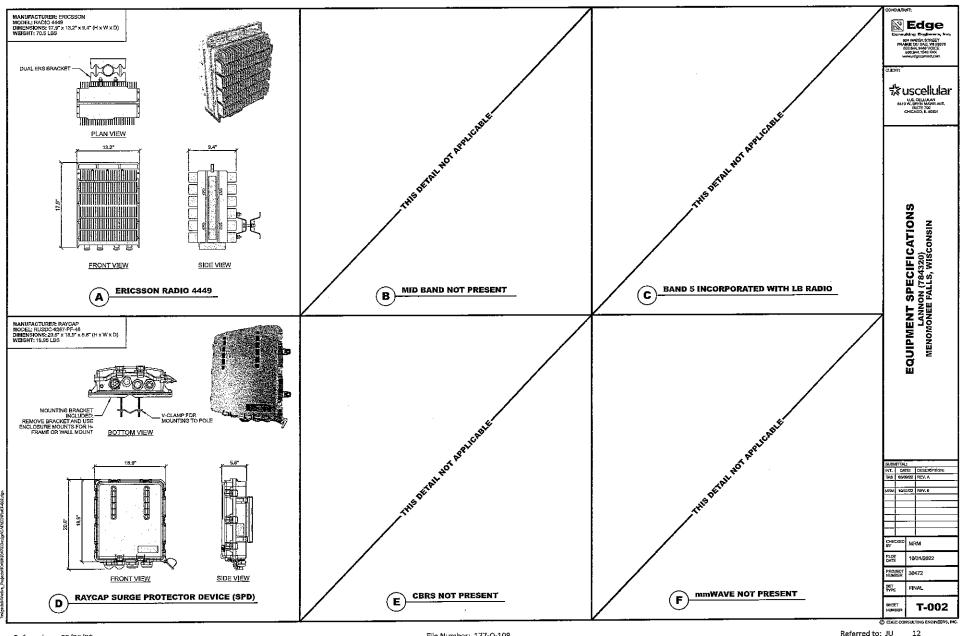
ANTENNA SPECIFICATIONS
LANNON (784320)
MENOMONEE FALLS, WISCONSIN

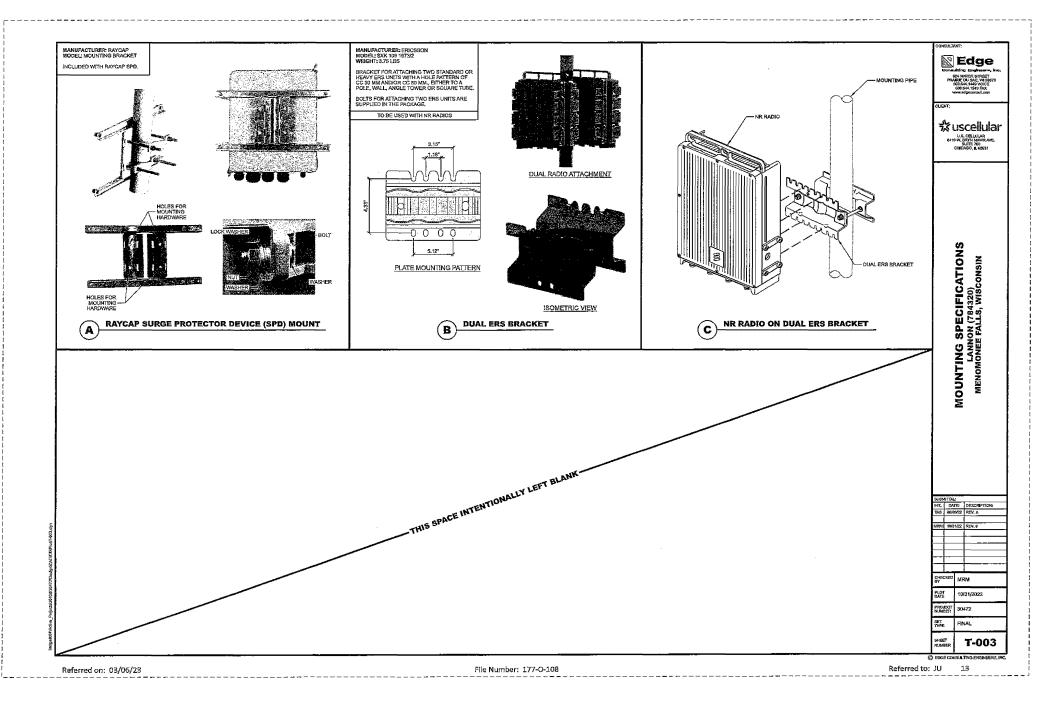
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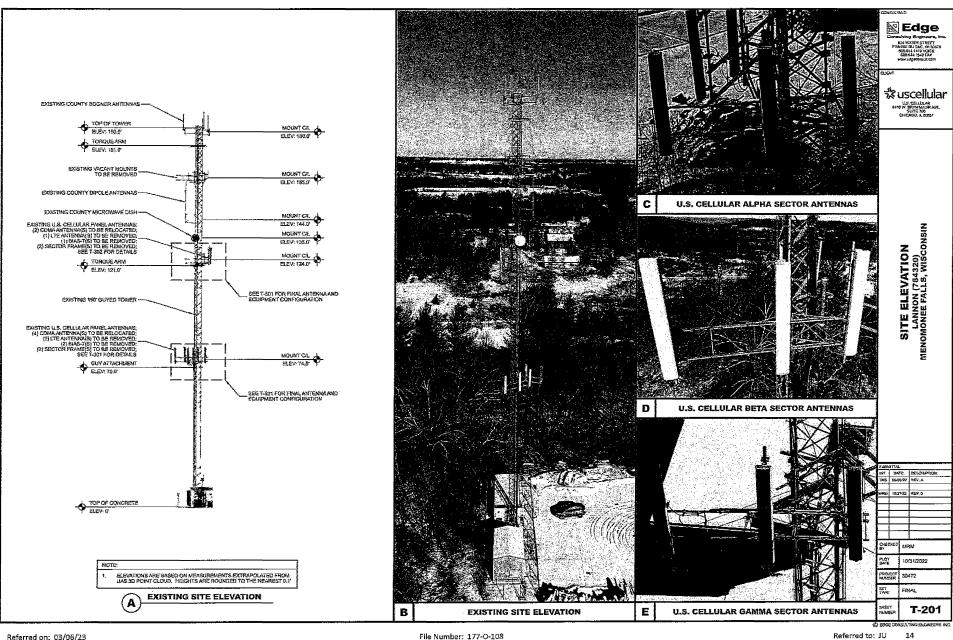
ANTENNA SPECIFICATIONS

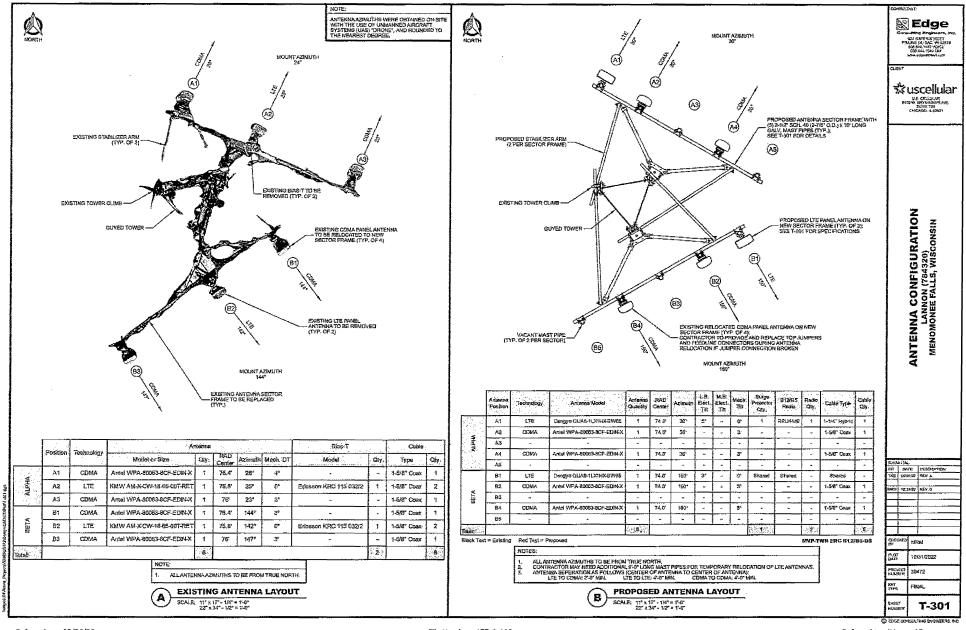
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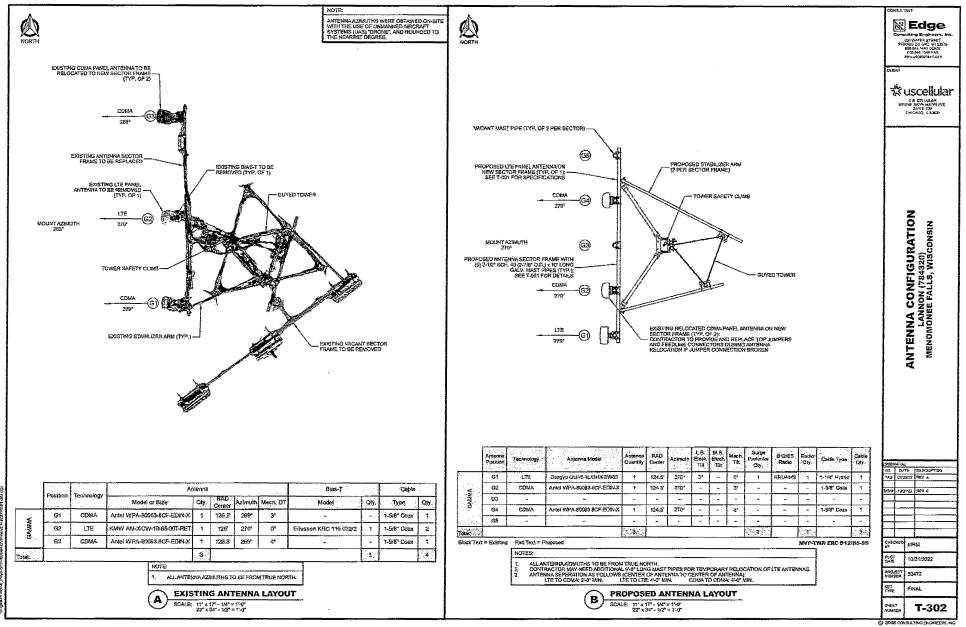
T-001

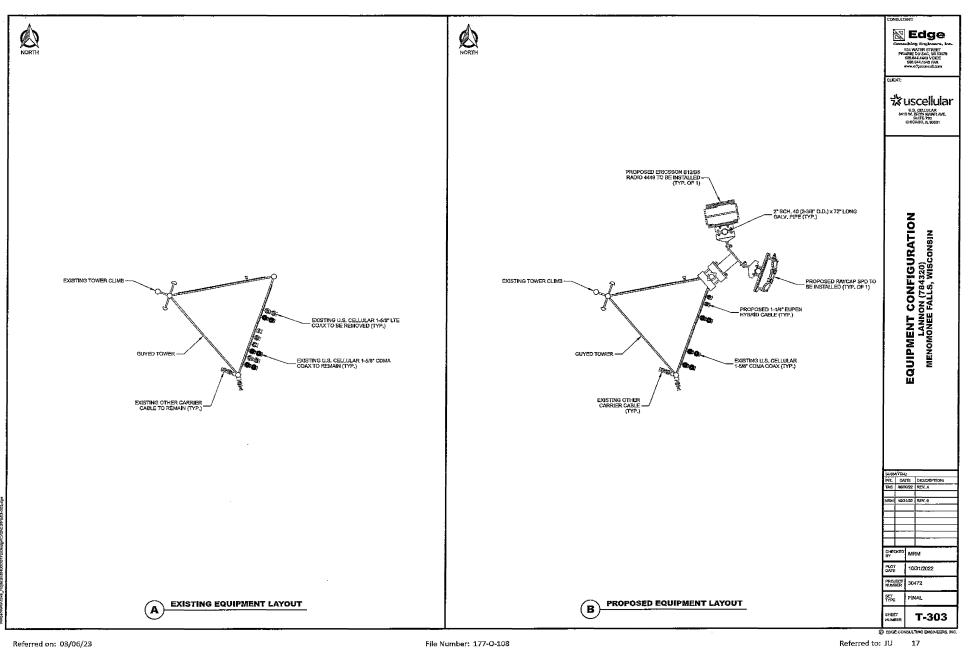


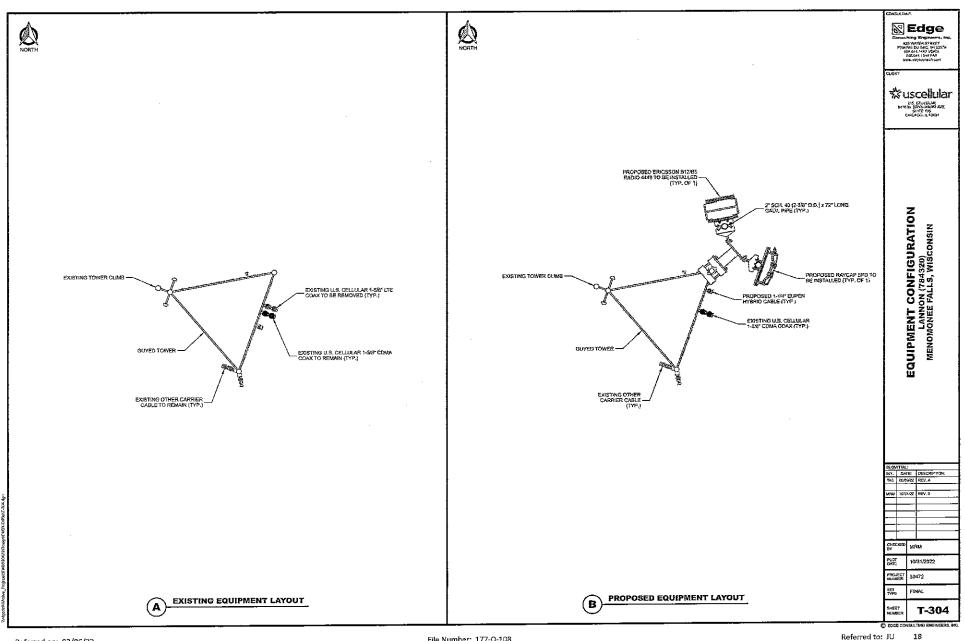


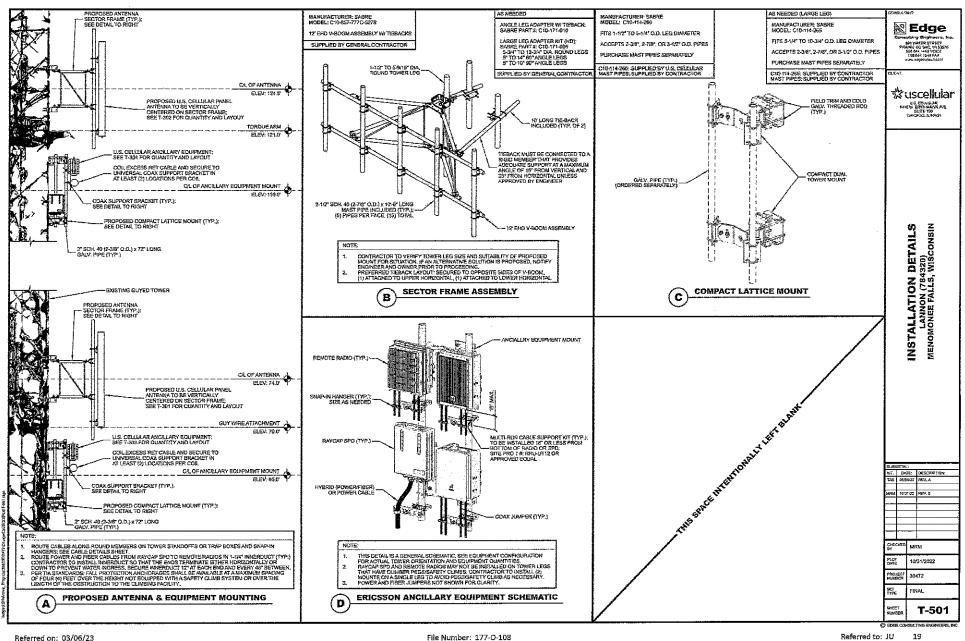














RAYCAP SPO	TO REMOTE	RADIO (812/8)	5)-10 GB
	DUANTITY	LEX	GTH
DUAL SECTOR	2	22.8 FT	10 m
SNGLE SECTOR	2	32.6 F7	TO m

F 4 1 1 1 4 1	RET CABL	E INFO	
RE	COLORN STON	O ANTENNA	
	CUANTITY	LEN	CTH
DUAL SECTOR	1	328 FT	10 ==
SNOLE SECTOR	1	32.5 FT	10 m
	ANTENNA TO	ANTERNA	•
	CHANTITY	LEN	ÇTH
DUAL SECTOR	1 1	32.5.FT	10 m

MANUFACTURER: EUPEN MODEL: EUCAHYSRID 114-12AWG6 MINIMUM BENDING RADIUS: 350mm (14°) MAXIMUM PULLING STRENGTH: 150 daN MAXIMUM ANGER SPACING: 1,0 m APPROX, WEIGHT: 2200 kg/km (1,55 LB/FT)

NON-ARMORED ENDS ARE 3" IN LENGTH (2" O.D.).

MAXIMUM CABLE LENGTH OF 410.

1-1/4" HYBRID FIBER OPTIC CABLE WITH 48V ENERGY FEEDER IN CORRUGATED ALUMINUM SHIELDING WITH UV RESISTANT PE JACKET.

SHIPPED WITH 4' PROTECTED JACKET (2.25" O.D.) AT EACH END.

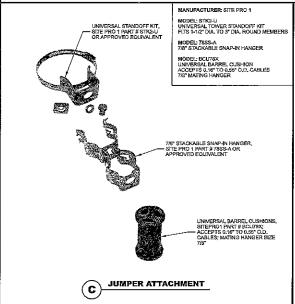
REN	TE RADIO TO ANTE	EKNA (B12/B5)
	DUANTITY	LENGTH
ALPHA	2	25 FT*
BETA	, 2	25 FT *
GANNA	2	25 FT *
LL SECTORS & APPROVED 30 SEPARATE		E JUNPER LENGTHS

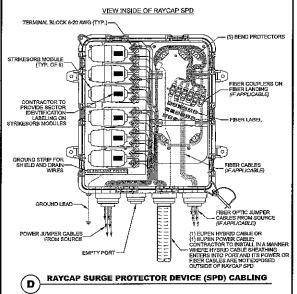
NOTE

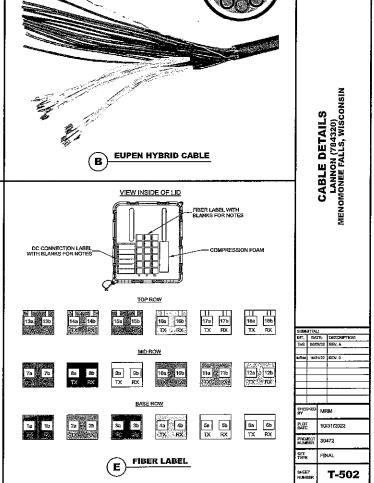
 (\mathbf{A})

 CABLE LENGTHS AND QUANTITIES ARE FOR LITE INSTALLATION ONLY, CONTRACTOR TO DETERMINE AND PROVIDE QUANTITY AND LENGTH OF ANY ADDITIONAL JUMPERS REQUIRED.

CABLE LENGTHS: MVP-TWR ERC B12/B5-DS+SS







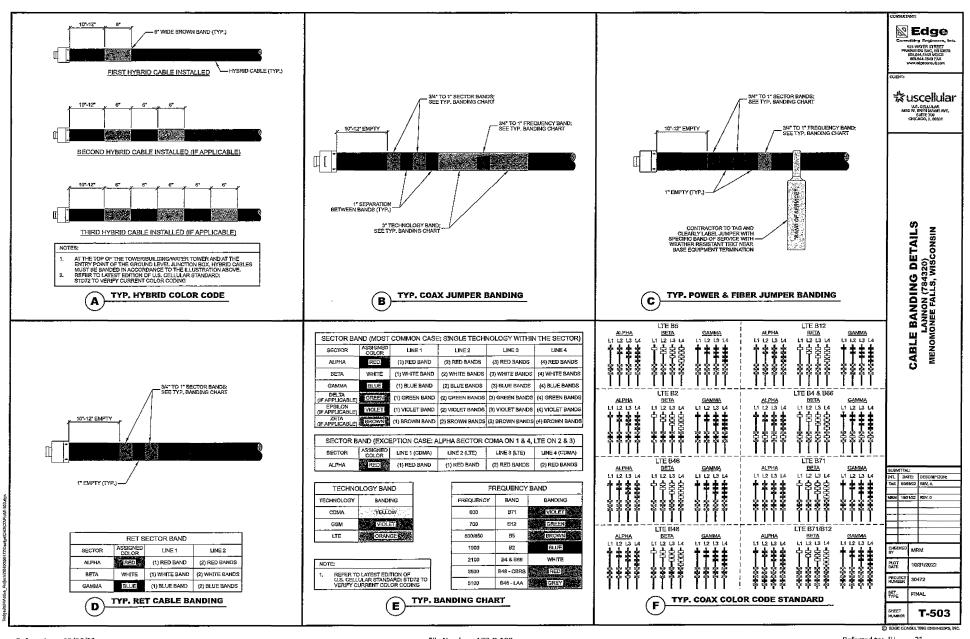
Referred on: 03/06/23 File Number: 177-0-108

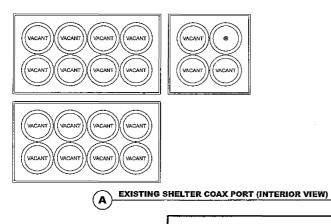
Referred to: JU 20

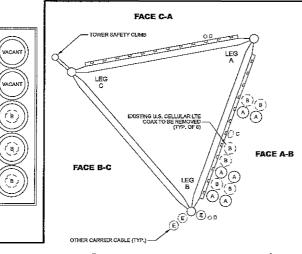
Edge

☆uscellular

U.S. CELLULAR B41D W. SRYN MAWR AVE. SUITE 700 CHICAGO, IL 60831

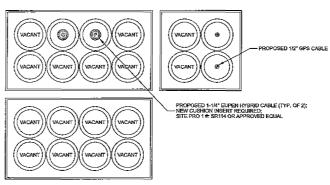




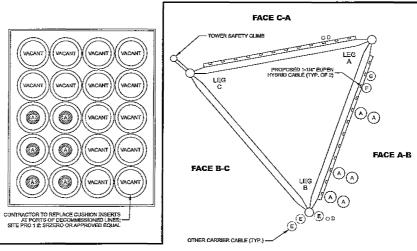


B EXISTING TOWER CABLE LAYOUT

COAX SYMBOL	(#) SIZE	E MOUNTING TYPE CARRIER / OWNER TECHNOLOGY		TECHNOLOGY	MOUNT HEIGHT		
. А	(6) 1-5/8" SNAP-INS		18" SNAP-INS U.S. CELLULAR CDMA				
B	(6) 1-5/6"	SNAP-INS	U.S. CELLULAR	LTE	74'(4) & \$24'(2)		
C D E	(1) EW90 (2) 1/2" (3) 1-1/4"	SNAP-INS SNAP-INS SNAP-INS	COUNTY COUNTY COUNTY	MAWDISH FIBER CMNI	135 144°& 188' 188'		
-	-			-			
-	- 1	_ !	-	-	-		



PROPOSED SHELTER COAX PORT (INTERIOR VIEW)



D PROPOSED TOWER CABLE LAYOUT

COAX SYMBOL	(#) SIZE	MOUNTING TYPE	CARRIER / OWNER	TECHNOLOGY	MOUNT HEIGHT
А	(6) 1-5/8°	SNAP-ANS	U,S, CELLULAR	CDWA	74'(4) & 124'(2)
6					
С	(1) EVI90	SNAP-INS	COUNTY	MWDISH	135'
Þ	(2) 1,2"	SNAP-INS	COUNTY	FIBER	144" & 188"
E	(3) 1-1/4"	SNAP-INS	COUNTY	OMNI	158'
F	對)1可從	SNAP-INS	US CELLULAR	HYBRID	66
G	(1):1-14"	SNAP INS	U.S. CELLULAR	HYBRID	116

© shee constituting exclusion

File Number: 177-0-108

Referred to: JU

onsulting engine

V-501

SUBMITTAL: INT. DATE: DESCRIPTION:

> MRM 10/31/2022 30472

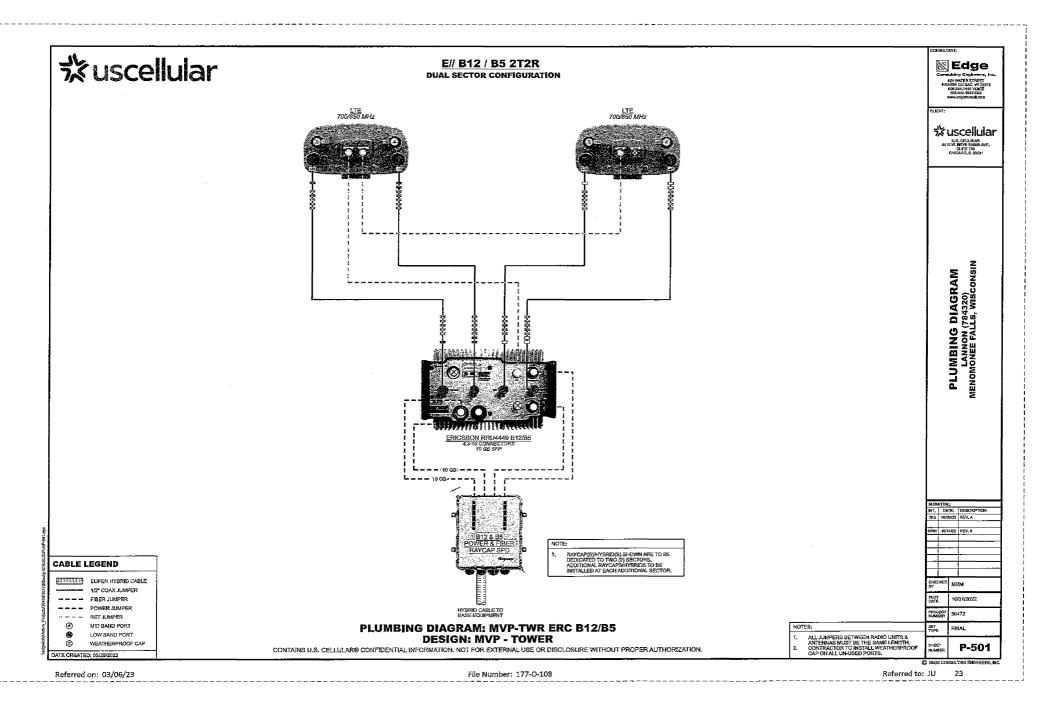
🔣 Edge

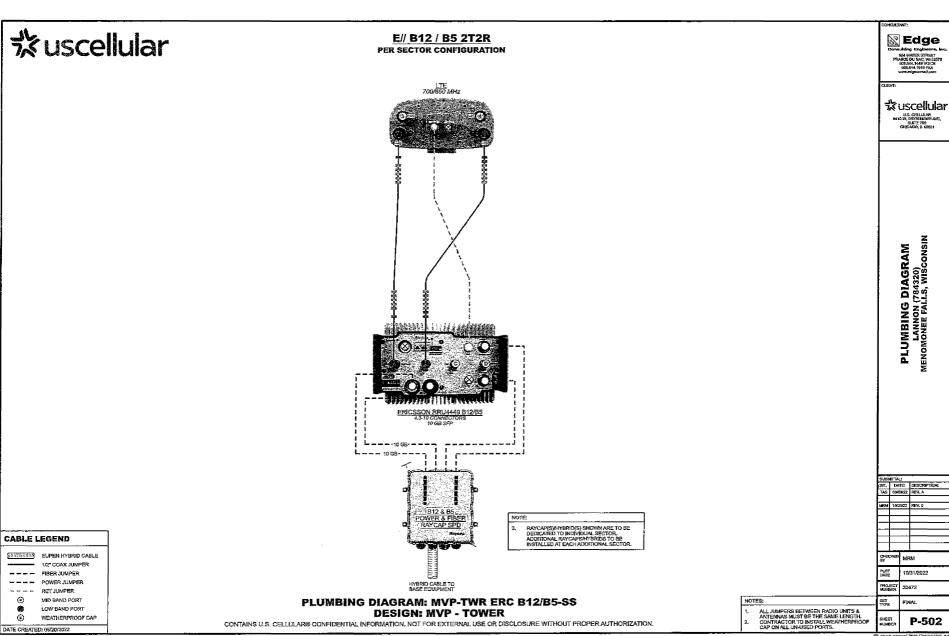
SUSCELLUAR BHID W. BRYN MAWAR AVE. SUTIE 700 CHICAGO, L. 68511

CABLE ROUTING
LANNON (784320)
MENOMONEE FALLS, WISCONSIN

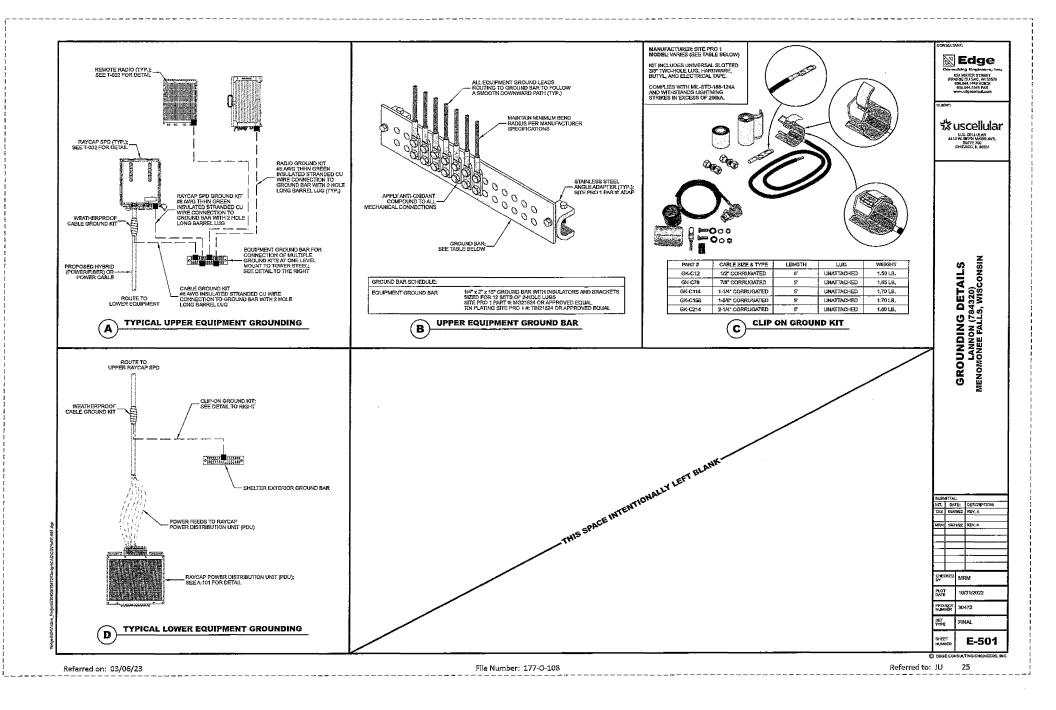
Referred on: 03/06/23

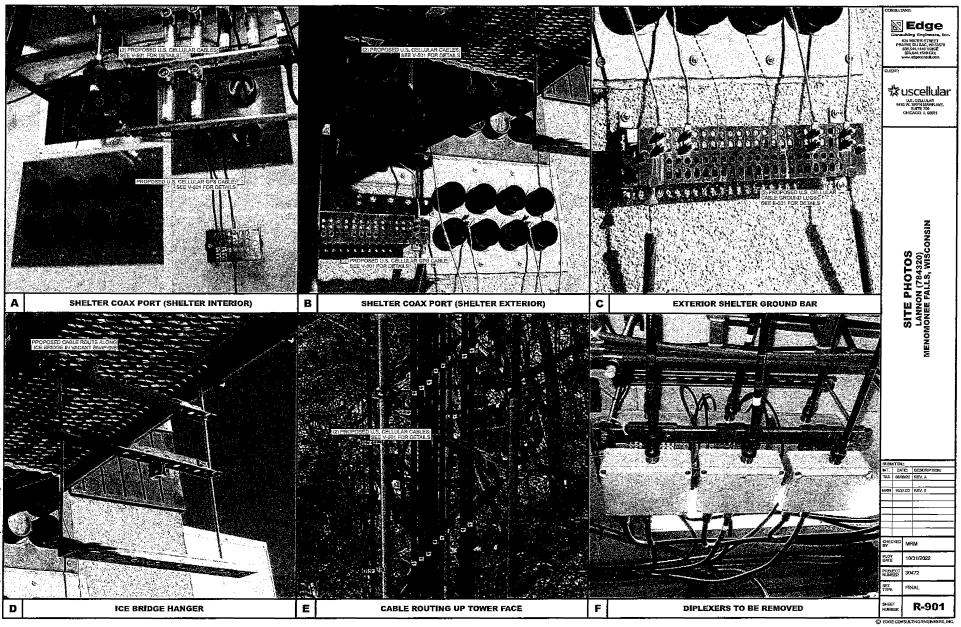
EXISTING U.S. CELLULAR LYE COAX TO BE REMOVED = {TYP. OF 6}





Referred on: 03/06/23





June 27, 2022

Michele Roth U.S. Cellular 8410 W. Bryn Mawr Ave., Suite 700 Chicago, IL 60631

SUBJECT:

SABRE 12' V-BOOM REPLACEMENT LETTER MODERNIZATION INSTALLATION

LANNON [784320]

MENOMONEE FALLS, WISCONSIN

EDGE PROJECT #30472

Ms. Roth:

Edge Consulting Engineers, Inc. has created this mount loading letter for the Sabre 12' EHD V-Boom (C10-857-777C-5278) mounting kit to accommodate U.S. Cellular's proposed modernization installation. Utilization of this letter is intended for use by the Client and Edge Consulting Engineers, Inc. only. Any use or exploitation of this load letter by outside parties or 3rd party firms is explicitly prohibited.

Rather than completing a site-specific mount analysis, a more generalized mount analysis was conducted with conservative loading and analysis criteria. The scope of this deliverable is to compare the site-specific loading and design criteria with this more generalized analysis. This analysis considers a singular site specific loading condition which is consistent with the current TIA-222 standard and is further described in the Antenna Wind Load Calculations attachment. The aforementioned analysis was produced using a finite element analysis program, RAM Elements. See below for specific equipment model numbers, quantities, design criteria, and analysis qualifications used in the generalized mount analysis. These are listed for comparison purposes of this letter. Furthermore, refer to the attached assembly drawings for details regarding the mount.

PANEL INFORMATION

#	C/L from TOC	Appurtenance	Status
1	124'-6"	Dengyo QUA8-1LX1HX-BW65	Proposed
2	124'-6"	Antel WPA-80063-8CF-EDIN-X	Existing
2	74'-0"	Dengyo QUA8-1LX1HX-BW65	Proposed
4	74'-0"	Antel WPA-80063-8CF-EDIN-X	Existing

^{*}This loading table represents total antenna/equipment quantities located on the mounts.

Referred on: 03/06/23 File Number: 177-O-108 Referred to: JU 27

GENERALIZED MOUNT ANALYSIS CRITERIA

Exposure Category	В	C	D
Design Wind Speed [mph]	132	122	118
Mounting Height (ft from T.O.C.)	500′ *		
Structure Class	ll		
Topographic Category	1 (F	lat/R	olling)
Wind Direction Probability Factor, Kd		0.95	5
Gust Effect Factor, Gh	1.00		
lce Thickness [in.],	2", 40 mph		nph
Ice Wind Speed [mph]	1.5	", 50	mph
Toe vania Speed [rilpit]	1"	, 60 r	nph

^{*}If R5-UP offsets are utilized, the maximum mounting height is reduced to 300' or the frame must only support centered panels with no RRU or SPD equipment.

LOAD LETTER QUALIFICATIONS

- Mount C/L is defined as the average elevation between the top and bottom face members. Antennas and other appurtenances should be centered on the mount centerline whenever possible, but some cantilever is allowed when needed to avoid physical obstructions. No greater than 2'-0" cantilever from mount centerline is allowed for antennas or equipment.
- A single 250 lbs. climber load was considered simultaneously with a light ice and wind condition.
- The antennas should be equally spaced horizontally on the face of the mount within +/-3" tolerance at a singular location. The RRU support pipe location should be mounted halfway between the V-standoff vertical rods.
- (2) Site Pro R5-UP offsets per sector are permitted to be utilized in order to achieve conflicting azimuths with the frame's orientation. Alternative offset kits can be approved by the EOR. Refer to the Generalized Mount Analysis Criteria table footnote for considerations when utilizing R5-UP offsets.
- For the purpose of this letter, it's assumed the proposed mounting kit will be installed
 within the manufacturer's parameters. The mount should be installed as shown in the
 attached assembly drawings. Deviations from the shown assembly recommendations
 should be approved by the manufacturer.

Our review of the site determined the proposed loading and site-specific design criteria are less than or equivalent to the generalized mount analysis. Therefore, it was concluded that the proposed mounts <u>are considered structurally adequate</u> to support the proposed loading condition. If the proposed loading is larger/heavier than what was considered, the design criteria are altered from that analyzed, or the letter qualifications are not adhered to then this letter shall be deemed to be void and further analysis will be required. Refer to attached support calculations for proposed equipment and calculated forces.

Referred on: 03/06/23 File Number: 177-0-108 Referred to: JU 28

Refer to the Lannon Construction drawings created by Edge Consulting Engineers for all applicable plan work, notes, and details. See output excel and RAM printouts for appurtenance configuration & locations used in the analysis.

Please feel free to contact us if you have any questions or concerns.

Sincerely,

Edge Consulting Engineers, Inc.

David M. Sanders, E.I.T.

Project Engineer (3) Attachments

Chris C. Kanne, P.E. Professional Engineer

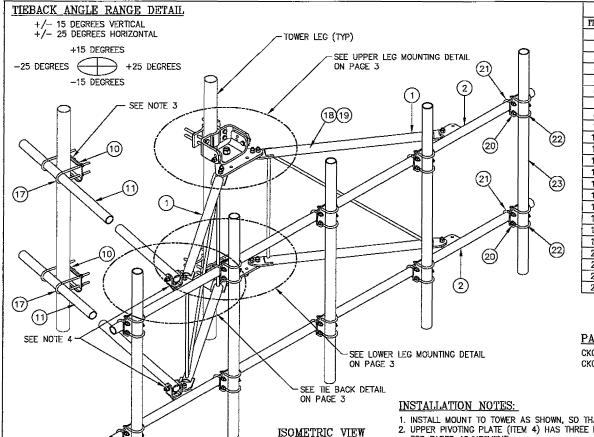
KANNE E-45657 MIDDLETON WISCONSIN

Referred on: 03/06/23 File Number: 177-O-108 Referred to: JU 29

LIMITATIONS AND RESTRICTIONS

- This report was prepared in accordance with generally accepted structural engineering practices common to the tower industry and makes no other warranties, either expressed or implied, as to the professional advice provided under the terms of the agreement between Engineer and Client. This report has not been prepared for uses or parties other than those specifically named, or for uses or applications other than those enumerated herein. The report may contain insufficient or inaccurate information for other purposes, applications, and/or other uses.
- 2) This report is intended for the use of the client, and cannot be utilized or relied upon by other parties without the written consent of Edge Consulting Engineers.
- 3) The model, conclusions, and recommendations contained within this report are based upon the supplied and attained information as described within the report and supplemented with historical information available to Edge Consulting Engineers. If it is known, or becomes known, that any item(s) are in conflict with what is described within this document, this report should be considered void and Edge Consulting Engineers should be contacted immediately.
- **4)** Edge Consulting Engineers disclaims all liability for any information, conclusion, or recommendation that is not expressly stated or represented within this report.
- 5) Edge Consulting Engineers shall not be liable for any incidental, consequential, indirect, special or punitive damages arising out of any claim associated with the use of this report.
- 6) The scope of worked performed for this analysis is limited to the items in which we were furnished complete and accurate information.
- 7) This generalized mount analysis was performed based upon the antenna, feed line and other appurtenance loading and placement as described within this report. Any alterations to the described loading or placement will require re-analysis of the mount, and the findings contained in this report are not valid.
- 8) It is the responsibility of the client and the tower owner to thoroughly review the proposed loading, and bring any discrepancy to the attention of Edge Consulting Engineers.
- 9) The loading conditions utilized for this analysis are based on information provided by the client, and readily available manufacturer/vendor information (antenna and mount projected areas, weight and shape factors). However, if the described loading criteria and design assumptions within this report are not accurate, are altered, or changed in any form, this analysis shall be considered void and an additional analysis must be performed.
- 10) This analysis was performed under the assumption that all appurtenances are mounted as analyzed and that all mount elements are in like new condition, free from rust and other deterioration. It is also assumed the mount was properly installed per the manufacturer's recommendations, and that the mount was originally designed and fabricated in accordance with all applicable codes and standards. Edge Consulting Engineers cannot account for, nor be held responsible, if mount elements are deteriorated, damaged, and/or missing.
- 11) This analysis provided by Edge Consulting Engineers, Inc. addresses the structural adequacy or deficiencies of the primary structural members of the mount identified above. The evaluation of each bolt, plate connection detail, ring mount, weld, etc. is outside the scope of this analysis.
- 12) The mount mentioned above was analyzed according to the minimum design wind loads recommended by the Telecommunications Industry Association standard (ANSI/TIA-222-H). If the owner or state/local authorities require a higher design wind or ice load, Edge Consulting Engineers, Inc. should be made aware of such a requirement.
- 13) Supplementary rime ice and in-cloud ice loadings (including thickness, density, escalation with height and corresponding wind speed) are to be included in the procurement specification when appropriate for a given site location.
- 14) If during the antenna installation the contractor identifies condition issues or concerns with the adequacy of the mount, this information should be relayed to the engineer prior to proceed with the installation.

Referred on: 03/06/23 File Number: 177-O-108 Referred to: JU 30



	C108	57777C-52	278 12' EHD V-BOOM ASSEMBLY W/TIEB.	ACKS
ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT
1.	2	CW01222	WELDMENT, STANDOFF ARM	126
2.	2	CW01223	WELDMENT, FACE PIPE	147
3.	2	CS03109	PLATE, ROTATING	34
4.	1	CS03110	PLATE, PIVOTING (UPPER)	16
5.	1	CS03111	PLATE, LEG CLAMP (UPPER)	17
6.	1	CS03112	PLATE, PIVOTING (LOWER)	14
7.	1	CS03113	PLATE, LEG CLAMP (LOWER)	17
8.	2	CS03114	PLATE, LEG CLAMP (BACK)	14
9.	2	CS00098	PLATE, TIE BACK SWIVEL	5
10.	2	CS03285	PLATE, TIE BACK CLAMP	9
11.	2	CS03333	PIPE, TIE BACK	76
12.	2	C40026073	BOLT ASSEMBLY, 1 ₺ X 3 A325	4
13.	8	C40140004	BOLT ASSEMBLY, 5/8 Ø X 8 A307	13
14.	2	C40026033	BOLT ASSEMBLY, 5/8 ø X 4 1/2 A325	2
15.	12	C40026025	BOLT ASSEMBLY, 5/8 ø X 2 1/2 A325	6
16.	6	C40026024	BOLT ASSEMBLY, 5/8 Ø X 2 1/4 A325	3
17.	4	C40034183	U-BOLT ASSEMBLY, 1/2 Ø X 2 9/16 C-C	6
18.	1	Z30992017	MOUNT CLASSIFICATION TAG C10857007C	1
19.	2	C40062103	STAINLESS STEEL SELF-LOCKING CABLE TIE	1
20.	10	CS03116	CROSSOVER PLATE (2 3/8-2 7/8)	43
21.	20	C40034139	U-BOLT ASSEMBLY, 1/2 ø X 2 15/16 C-C	16
22.	20	C40034140	U-BOLT ASSEMBLY, 1/2 Ø X 3 7/16 C-C	18
23.	5	C10901329	PIPE, MOUNTING 2 7/8 Ø X .203 X 10'-0	301
			TOTAL WEIGHT	889

PACKAGING NOTE

consent of Sobre.

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CK00386 INCLUDES ITEMS 1, 3, 4, 5, 6, 7, 12 & 15 (8 QTY) CK00392 INCLUDES ITEMS 2, B, 9, 10, 11, 13, 14, 15 (4 QTY), 16, 17, 18 & 19

- INSTALL MOUNT TO TOWER AS SHOWN, SO THAT WELDED STANDOFF DIAGONAL IS SLOPING DOWNWARD FROM TOWER END TO FACE PIPE END.
 UPPER PIVOTING PLATE (ITEM 4) HAS THREE HOLES ON EACH SIDE AND UPPER LEG CLAMP PLATE (ITEM 5) HAS TWO HOLES ON EACH SIDE FOR TAPER ADJUSTMENT.
- 3. INSTALL PRODUCT EXACTLY AS SHOWN IN DRAWING, WITH ALL BOLTS FACING UPWARDS.
- 4. IF LOCKING CABLE GUIDES ARE REQUIRED THEY MUST BE PURCHASED SEPARATELY (SEE PAGE 4).

NOTES:

- 1. QUANTITIES SHOWN IN LISTS OF MATERIAL ARE FOR ONE (1) V-BOOM ONLY.
 2. THIS V-BOOM WILL MOUNT TO THE FOLLOWING: 1 1/2" Ø TO 5 9/16" Ø ROUND LE
- THIS V-BOOM WILL MOUNT TO THE FOLLOWING: 1 1/2"Ø TO 5 9/16"Ø ROUND LEG.
 TIEBACKS MUST BE CONNECTED TO A RIGID MEMBER THAT PROVIDES ADEQUATE SUPPORT WITHIN THE LIMITS NOTED ABOVE IN THE TIEBACK ANGLE RANGE DETAIL UNLESS APPROVED BY THE ENGINEER OF RECORD.
- 4. THE TIEBACK IS SHOWN IN THIS POSITION AS A DEFAULT. THIS TIEBACK CAN BE CONNECTED AT ANY (2) OF THE (4) POSITIONS ON THE TABS ON THE FACE PIPE.

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES TOLERANCES: FRACTIONS ± 1/16" ANGLES ± 1/2 DEG, DECIMALS ± .010"	MATERIAL: TOLERANCES DO NOT APPLY TO RAW MATERIAL	Sabre Industries
		CONFIDENTIAL This document and the Information contained herein is the confidential trade secret property of Sobre Industries, Inc. (Sobre*) and must not be reproduced, copied or used, in whole or in part, for any purpose without the prior written

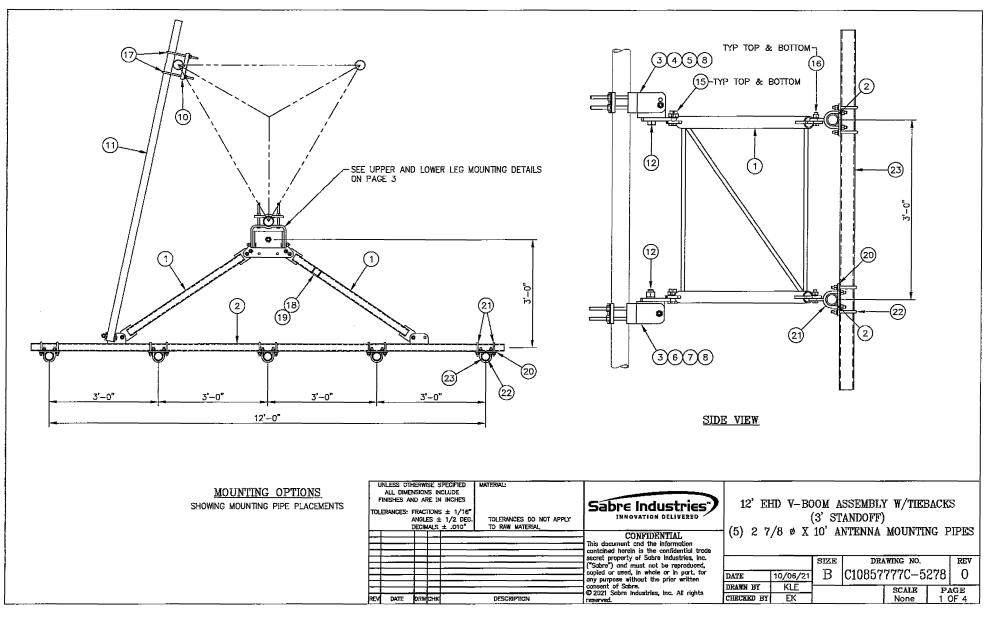
12' EHD V-BOOM ASSEMBLY W/TIEBACKS
(3' STANDOFF)

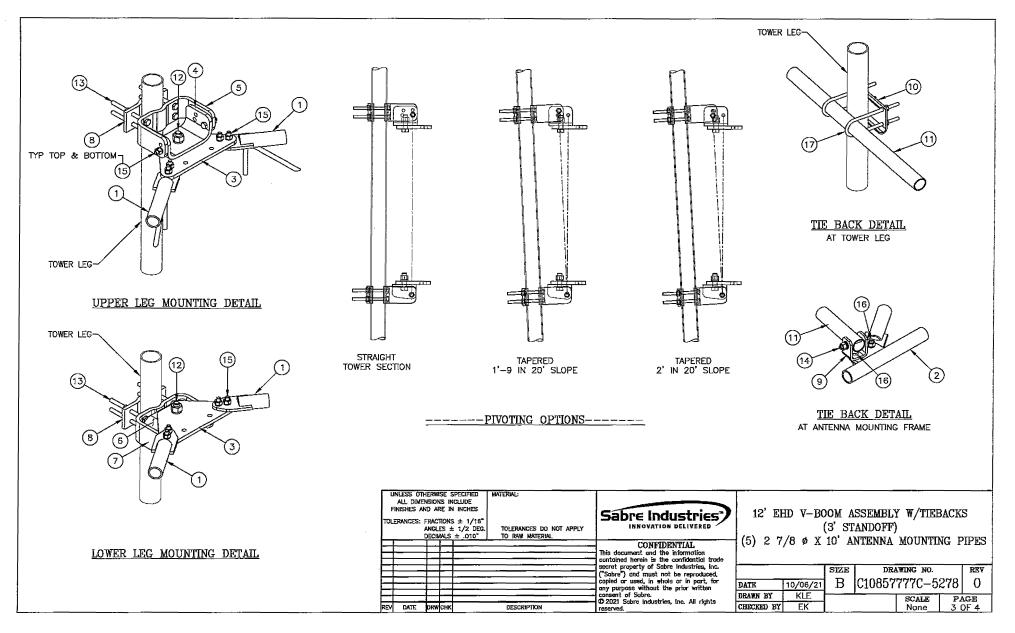
(5) 2 7/8 Ø X 10' ANTENNA MOUNTING PIPES

		SIZE	DRA	WING NO.		REV
DATE	10/06/21	В	C10857	777C-5	278	0
DRAWN BY	KLE			SCALE	P	Æ
CHECKED BY	EK			None		DF 4

DATE DRWIC

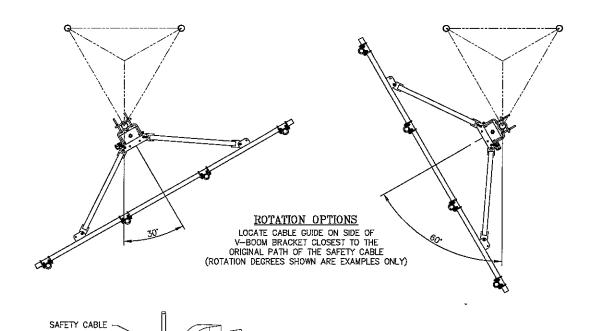
DESCRIPTION

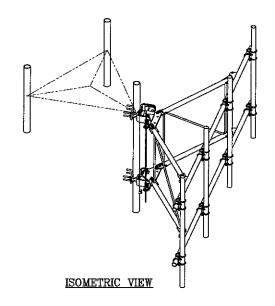






IF REQUIRED PLEASE ORDER PART NUMBER C30017022. THIS KIT WILL COME WITH (2) LOCKING CABLE GUIDES FOR TOP & BOTTOM V-BOOM BRACKETS.





NOTE

OTHER ADDITIONAL CABLE GUIDE SUPPORTS MAY BE REQUIRED ABOVE AND BELOW V-BOOM SO THAT CABLE AUGNMENT IS WITHIN REQUIRED LIMITS.

UNLESS OTHERWISE SPECIFIED MATERIAL ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES Sabre Industries TOLERANCES: FRACTIONS ± 1/16" INNOVATION DELIVERED ANGLES ± 1/2 DEG TOLERANCES DO NOT APPLY TO RAW MATERIAL. DECIMALS ± .010" CONFIDENTIAL This document and the information contained herein is the confidential trade secret property of Sobre Industries, Inc. ("Sobre") and must not be reproduced, copied or used, in whole or in port, for any purpose without the prior written consent of Sabre. © 2021 Sabre Industries, Inc. All rights

DESCRIPTION

12' EHD V-BOOM ASSEMBLY W/TIEBACKS (3' STANDOFF)

(5) 2 7/8 Ø X 10' ANTENNA MOUNTING PIPES

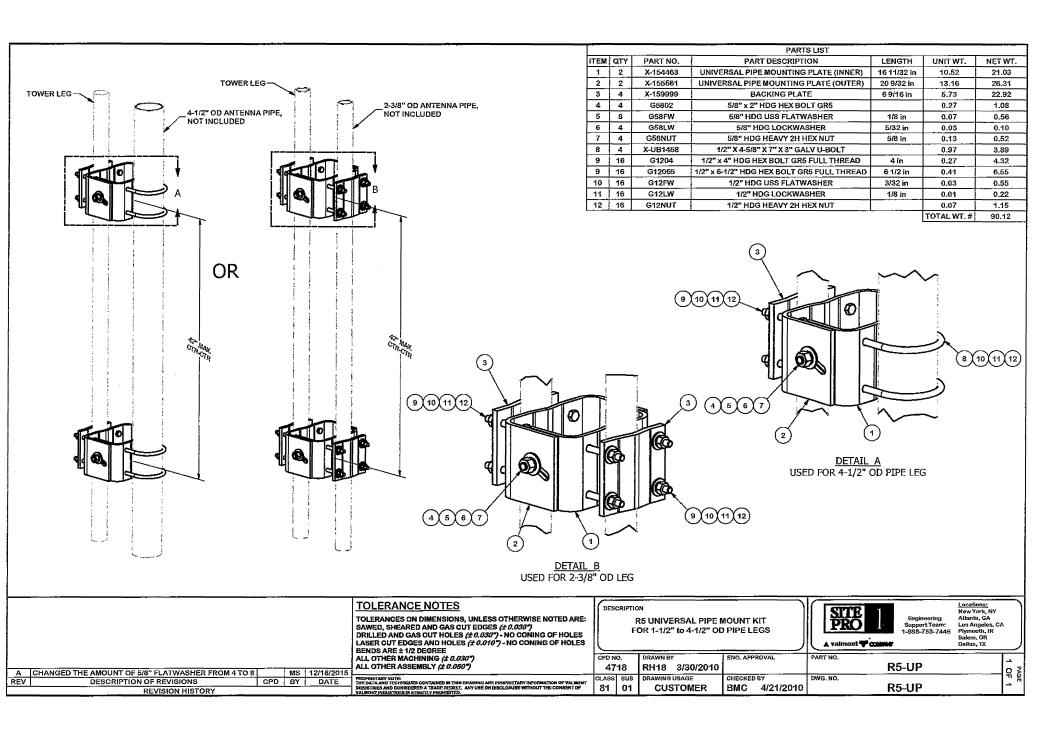
		SIZE	DR/	AWING NO.		REV
DATE	10/06/21	В	C10857	777C-5	278	0
DRAWN BY	KLE			SCALE	P	AGE
CHECKED BY	EK			None		DF 4

5/8 Ø BOLT ASSEMBLY -

ON V-BOOM BRACKET

CABLE GUIDE DETAIL

DATE ORWICHK



Antenna Wind Load Calculations

Project Name: Mount Replacement Letter - Sabre V-Boom

⊠E	dge
Consulting	Engineera, but.

Completed By:	JTC
Checked By:	CCK

Base Wind Pressure Calculation:

Pressure Galculation:		
Referenced Standard; Ti/	-EIA Rev.	H
Referenced Topographic Standard:	TIA	
Elevation of Antennas (z) =	500	ft
Exposure Category =	D	
Importance Category =	11	
Topographic Category = 1	Flat/Rollin	g
Crest Height (H) =	0	ft
K,=	1,90	
Terrain Constant, K. =	1.10	
K,=	0.00	
K _n =	0.00	
K.,=	1.00	
K. =	0.95	
Vult ≃	118	mph
Vnom =	91.40	mph
1=	N/A	
Ground Elevation, z =	0	ft
Ground Elevation Factor, K =	1.00	
Region Wind Speedup IC =	NI/A	

 $q_z = 0.00256 \cdot K_z \cdot K_{zt} \cdot K_{d} \cdot V^2 \cdot I(lf \; applies) \cdot K_{et}(lf \; applies) \cdot K_s(lf \; applies)$

 $F = q_z \cdot G \cdot C_f \cdot A$

q_e≅ 64.20 psf

Ice Calculation:

V_{tos} = 40 mph L_m = 1.00

 $q_z = 0.00256 \cdot K_z \cdot K_{zt} \cdot K_d \cdot V_{lcs}^2 \cdot I_{lw} \cdot K_{el}(if \ applies) \cdot K_s(if \ applies)$

q_{zlos} = 7.38 lokness Faotor, LF = 1.00 f_i = 1.00

 $f_{z} = \left(\frac{z}{33}\right)^{0.1}$

*f, = 1.4 if z > 000 ft

 $t_d = LF \cdot t \cdot l_1 \cdot f_z \cdot K_{zt}^{0.35}$

I_d = 2.62

Wind Force/Weight Calculation (No Ice):

#	Appurtenance	Type	Normal	Position	Kd	q,	Weight	Bracket	Height (H)	Width (W)	Depth (D)	Front	Side	Front	Side	EPA	EPA _{top}	Total Weight
			Orientation			psf	lbs	ios	in	In	ln	AR	AR	(C _p)	(C,,)	(j ²	ft²	lbs
6	Generic 8' LTE Panel	Antenna	Front	1	0,95	64.20	134.20	10.00	98.40	31.50	8.50	3,1	11,3	1.22	1,54	25,83	_ B.79	144.20
9	Generic CDMA	Antenna	Frent	2	0.95	64.20	80.00	10.00	96.00	16,00	8,00	6,0	12.0	1.36	1.57	14.46	8.36	90.00
3	Genetic RRU	RRU	Worst	3	0.95	64.20	150.00	N/A	20,00	18,00	16,00	1.1	1.3	1.20	1.20	3,00	2.67	150.00
3	Generio RRU	RRU	Worst	4	0.95	64.20	75.00	N/A	18,00	13,20	11,30	1.4	1.0	1.20	1.20	1.98	1.70	75.00
3	Generio Grouped RRU	RRU	Worst	6	0.95	64.20	143.00	N/A	19,70	17,00	14.40	1.2	1.4	1.20	1.20	2.79	2.36	143.00
4	Raycap RUSDC-0267-PF-48	SPD	Worst	ô .	0.95	64,20	20,00	N/A	20.80	18.90	5.80	1.1	3.6	1.20	1.25	3.24	1,03	20,00
1	Antenna Doslanalian	1 1	2	3	4	- 5	- 6	1										

Wind Force/Weight Calculation (with Ice):

 $A_i = \pi \cdot \epsilon_d \cdot (D_c + t_d)$

#	Appurtenance	Type	Normal	Position	Kd	ď	Area _{los} (A)	Weight	Height (H)	Width (W)	Depth (D)	Front	Side	Front	Side	EPA _{norm}	EPA
11	, -		Orlentation			psf	ft ²	lbs	. In	ln in	ln i	AR	AR	(C,)	(C.,)	ft ²	ft ²
6	Generic 6' LTE Panel	Antenna	Front	1	0.96	7.38	2.02	957,53	101.65	36.76	13.75	2.8	7.4	1.21	1.41	31.44	13.72
9	Generic CDMA	Antenha	Front	2	0,95	7.38	1.17	655,00	101.25	21.25	13.25	4.8	7,6	1,30	1.42	19,43	13,24
3	Generio RRU	RRU	Worst	3	0.95	7.38	1.53	180.20	25.26	23.26	21,25	1.1	1.2	1,20	1.20	4.89	4.47
3	Generio RRU	RRU	Worst	4	0.95	7,38	1,15	124,26	23.26	16.45	16.55	1.3	1.4	1.20	1.20	3.57	3.21
3	Generia Grouped RRU	RRU	Worst	5	0.95	7.38	1.43	166.03	24.96	22.25	19.65	1.1	1.3	1.20	1.20	4.63	4.09
4	Raycap RUSDC-6267-PF-48	SPD	Worst	6	0.95	7,38	1,28	154,69	25.65	24.15	11.05	1.1	2.3	1.20	1.20	5.20	2,38

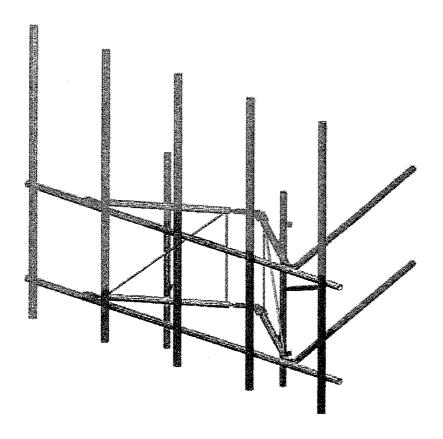
Referred on: 03/06/23 File Number: 177-O-108 Referred to: JU 36

Counts gold above are total units considered for all coolers

^{**} Efricoson plumbing diagrams with (4) radios MAX per sector & Nobles Plumbing diagrams with (3) units MAX per sector are covored in the location protect above.
** 2.6* STD obuses are to be utilized for TLC connels, and oil offer prospel-supported supports plumbing and provided to be 2° PDD. New meet place should be 12° begrow that the original plumbing and provided to the provided to



Current Date: 1/14/2021 4:09 PM
Units system: English
File name: M:\Structural\Antenna Mounts\Mount Research\2020\2020-12-07



Referred on: 03/06/23

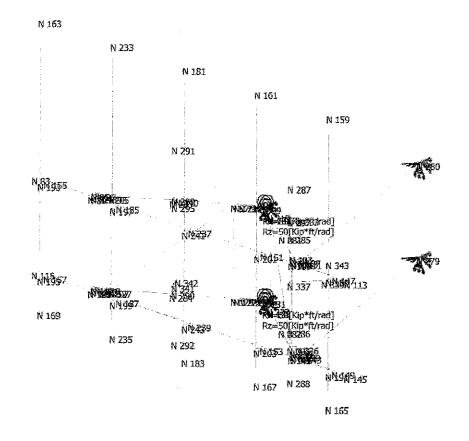
File Number: 177-0-108

Referred to: JU



Current Date: 1/14/2021 4:09 PM

Units system: English
File name: M:\Structural\Antenna Mounts\Mount Research\2020\2020-12-07
Load condition: WLz=Wind in the Z Direction



 $Z_{\mathbf{z}}$

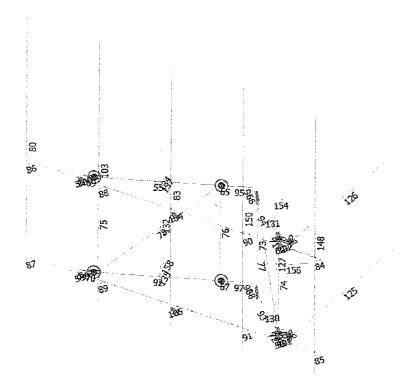
Referred on: 03/06/23

File Number: 177-0-108

Referred to: JU



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Current Date: 1/14/2021 4:10 PM
Units system: English
File name: M:\Structural\Antenna Mounts\Mount Research\2020\2020-12-07



Referred on: 03/06/23

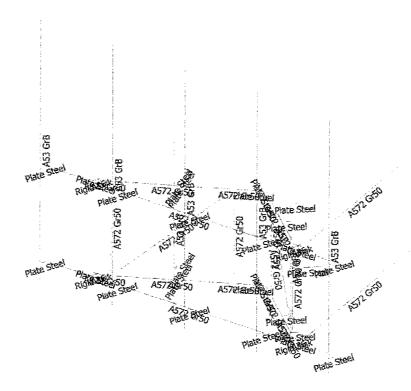
File Number: 177-0-108

Referred to: JU



Current Date: 1/14/2021 4:10 PM Units system: English

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Referred on: 03/06/23

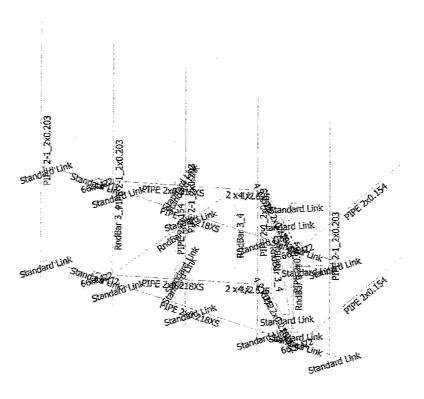
File Number: 177-0-108

Referred to: JU



Consulting Engineers, Inc. Edge Consulting Engineers, Inc. Current Date: 1/14/2021 4:10 PM Units system: English

File name: M:\Structural\Antenna Mounts\Mount Research\2020\2020-12-07



Referred on: 03/06/23

File Number: 177-0-108

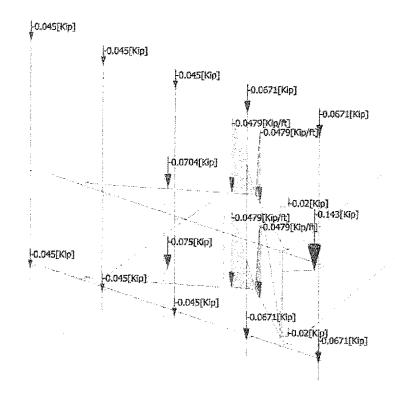
Referred to: JU



Current Date: 1/14/2021 4:11 PM

Units system: English

File name: M:\Structural\Antenna Mounts\Mount Research\2020\2020-12-07
Load condition: DL=Dead Load



Referred on: 03/06/23

File Number: 177-0-108

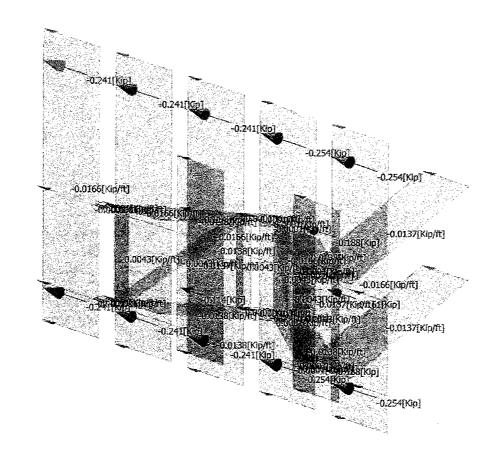
Referred to: JU



Current Date: 1/14/2021 4:11 PM

Units system: English

File name: M:\Structural\Antenna Mounts\Mount Research\2020\2020-12-07
Load condition: WLx=Wind in the X Direction



Referred on: 03/06/23

File Number: 177-0-108

Referred to: JU

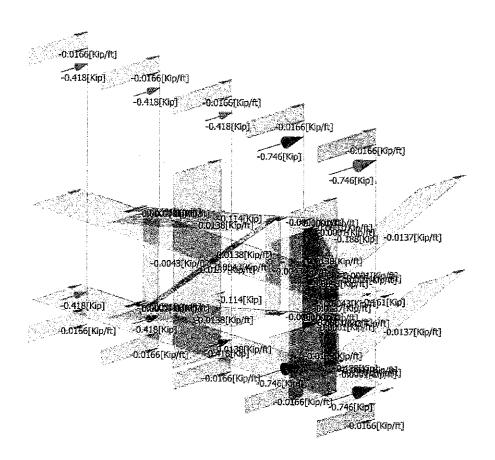


Current Date: 1/14/2021 4:11 PM

Units system: English

File name: M:\Structural\Antenna Mounts\Mount Research\2020\2020-12-07

Load condition: WLz=Wind in the Z Direction



Referred on: 03/06/23

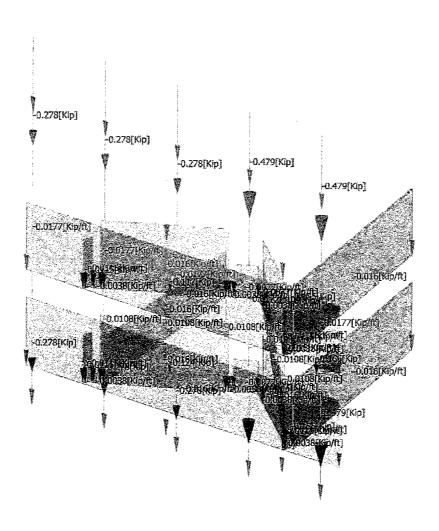
File Number: 177-0-108

Referred to: JU



Current Date: 1/14/2021 4:11 PM
Units system: English
File name: M:\Structural\Antenna Mounts\Mount Research\2020\2020-12-07

Load condition: Ice=Ice Dead Load



Referred on: 03/06/23

File Number: 177-0-108

Referred to: JU

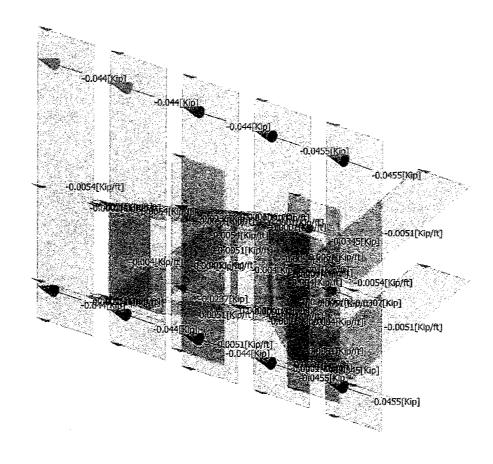


Current Date: 1/14/2021 4:11 PM

Units system: English

File name: M:\Structural\Antenna Mounts\Mount Research\2020\2020-12-07
Load condition: WLxi=Ice Wind in the X Direction

Referred on: 03/06/23



File Number: 177-0-108

Referred to: JU

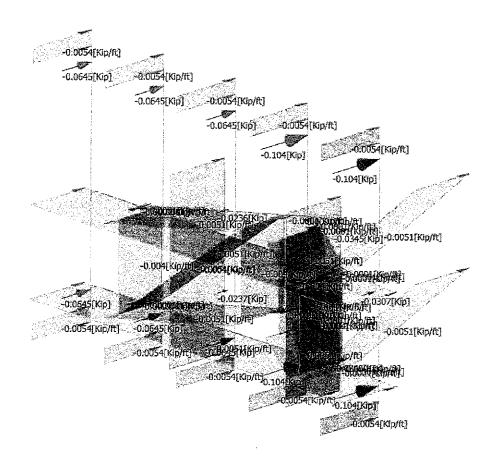


Current Date: 1/14/2021 4:12 PM

Units system: English

File name: M:\Structural\Antenna Mounts\Mount Research\2020\2020-12-07

Load condition: WLzi=loe Wind in the Z Direction



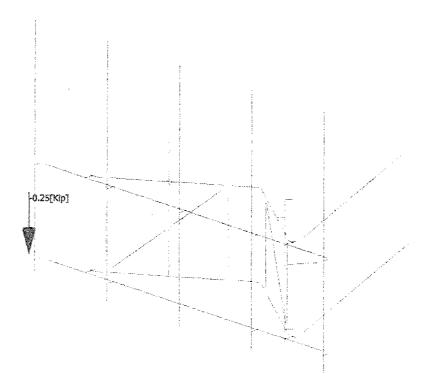
Referred on: 03/06/23

File Number: 177-0-108

Referred to: JU



Current Date: 1/14/2021 4:12 PM
Units system: English
File name: M:\Structural\Antenna Mounts\Mount Research\2020\2020-12-07
Load condition: LL1=Live Load 1



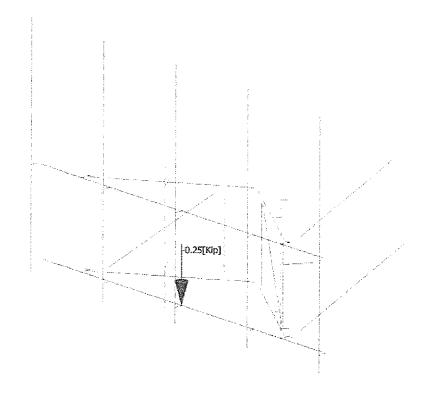
Referred on: 03/06/23

File Number: 177-0-108

Referred to: JU



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Units system: English
File name: M:\Structural\Antenna Mounts\Mount Research\2020\2020-12-07
Load condition: LL2=Live Load 2



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File Number: 177-0-108

Referred to: JU

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Units system: English

File name: M:\Structural\Antenna Mounts\Mount Research\2020\2020-12-07

Steel Code Check

Report: Summary - Group by member

Load conditions to be included in design:

D1=1.4DL

L2=1.2DL+1.6LL1

L3=1.2DL+1.6LL2

L4=1.2DL+0.2lce+Temp+1.6LL1

L5=1.2DL+0.2lce+Temp+1.6LL2

D6=1.2DL+WLx

D7=1.2DL+0.866WLx+0.5WLz

D8=1.2DL+0.707WLx+0.707WLz

D9=1.2DL+0.5WLx+0.866WLz

D10=1.2DL+WLz

D11=1.2DL-0.5WLx+0.866WLz

D12=1,2DL-0.707WLx+0.707WLz

D13=1.2DL-0.866WLx+0.5WLz

D14=1.2DL-WLx

D15=1.2DL-0.866WLx-0.5WLz

D16=1.2DL-0.707WLx-0.707WLz

D17=1.2DL-0.5WLx-0.866WLz

D18=1.2DL-WLz

D19=1.2DL+0.5WLx-0.866WLz

D20=1.2DL+0.707WLx-0.707WLz

D21=1.2DL+0.866WLx-0.5WLz

I22=1.2DL+lce+WLxi+Temp

I23=1.2DL+lce+0.866WLxi+0.5WLzi+Temp

I24=1.2DL+Ice+0.707WLxi+0.707WLzi+Temp

I25=1.2DL+Ice+0.5WLxi+0.866WLzi+Temp

I26=1.2DL+Ice+WLzi+Temp

I27=1.2DL+Ice-0.5WLxi+0.866WLzi+Temp

I28=1.2DL+lce-0.707WLxi+0.707WLzi+Temp

129=1.2DL+lce-0.866WLxi+0.5WLzi+Temp

130=1.2DL+lce-WLxi+Temp

131=1.2DL+Ice-0.866WLxi-0.5WLzi+Temp

132=1.2DL+lce-0.707WLxi-0.707WLzi+Temp

133=1.2DL+lce-0.5WLxi-0.866WLzi+Temp

I34=1.2DL+Ice-WLzi+Temp

135=1.2DL+lce+0.5WLxi-0.866WLzi+Temp

136=1.2DL+lce+0.707WLxi-0.707WLzi+Temp

137=1.2DL+lce+0.866WLxi-0.5WLzi+Temp

L38=1.2DL+0.5Ice+WLxi+Temp+LL1

L39=1.2DL+0.5lce+0.866WLxi+0.5WLzi+Temp+LL1

L40=1,2DL+0.5lce+0.707WLxi+0.707WLzi+Temp+LL1

L41=1.2DL+0.5Ice+0.5WLxi+0.866WLzi+Temp+LL1

L42=1.2DL+0.5Ice+WLzi+Temp+LL1

L43=1.2DL+0.5lce-0.5WLxi+0.866WLzi+Temp+LL1

L44=1.2DL+0.5lce-0.707WLxi+0.707WLzi+Temp+LL1

L45=1.2DL+0.5lce-0.866WLxi+0.5WLzi+Temp+LL1

L46=1.2DL+0.5Ice-WLxi+Temp+LL1

L47=1.2DL+0.5lce-0.866WLxi-0.5WLzi+Temp+LL1

L48=1.2DL+0.5Ice-0.707WLxi-0.707WLzi+Temp+LL1

L49=1.2DL+0.5lce-0.5WLxi-0.866WLzi+Temp+LL1

L50=1.2DL+0.5lce-WLzi+Temp+LL1

Page1

L51=1.2DL+0.5Ice+0.5WLxi-0.866WLzi+Temp+LL1 L52=1.2DL+0.5lce+0.707WLxi-0.707WLzi+Temp+LL1 L53=1.2DL+0.5lce+0.866WLxi-0.5WLzi+Temp+LL1 L54=1.2DL+0.5lce+WLxi+Temp+LL2 L55=1.2DL+0.5lce+0.866WLxi+0.5WLzi+Temp+LL2 L56=1.2DL+0.5lce+0.707WLxi+0.707WLzi+Temp+LL2 L57=1.2DL+0.5lce+0.5WLxi+0.866WLzi+Temp+LL2 L58=1.2DL+0.5lce+WLzi+Temp+LL2 L59=1.2DL+0.5lce-0.5WLxi+0.866WLzi+Temp+LL2 L60=1.2DL+0.5lce-0.707WLxi+0.707WLzi+Temp+LL2 L61=1.2DL+0.5lce-0.866WLxi+0.5WLzi+Temp+LL2 L62=1.2DL+0.5lce-WLxi+Temp+LL2 L63=1.2DL+0.5lce-0.866WLxi-0.5WLzi+Temp+LL2 L64=1.2DL+0.5lce-0.707WLxi-0.707WLzi+Temp+LL2 L65=1.2DL+0.5lce-0.5WLxi-0.866WLzi+Temp+LL2 L66=1.2DL+0.5lce-WLzi+Temp+LL2 L67=1.2DL+0.5lce+0.5WLxi-0.866WLzi+Temp+LL2 L68=1.2DL+0.5lce+0.707WLxi-0.707WLzi+Temp+LL2 L69=1.2DL+0.5lce+0.866WLxi-0.5WLzi+Temp+LL2 D70=0.9DL+WLx D71=0.9DL+0.866WLx+0.5WLz D72=0.9DL+0.707WLx+0.707WLz D73=0.9DL+0.5WLx+0.866WLz D74=0.9DL+WLz D75=0.9DL-0.5WLx+0.866WLz D76=0.9DL-0.707WLx+0.707WLz D77=0.9DL-0.866WLx+0.5WLz D78=0.9DL-WLx D79=0.9DL-0.866WLx-0.5WLz D80=0.9DL-0.707WLx-0.707WLz D81=0.9DL-0.5WLx-0.866WLz D82=0.9DL-WLz D83=0.9DL+0.5WLx-0.866WLz D84=0.9DL+0.707WLx-0.707WLz D85=0.9DL+0.866WLx-0.5WLz 186=0.9DL+lce+WLxi+Temp 187=0.9DL+lce+0.866WLxi+0.5WLzi+Temp 188=0.9DL+lce+0.707WLxi+0.707WLzi+Temp 189=0.9DL+lce+0.5WLxi+0.866WLzi+Temp 190=0.9DL+lce+WLzi+Temp 191=0.9DL+lce-0.5WLxi+0.866WLzi+Temp 192=0.9DL+lce-0.707WLxi+0.707WLzi+Temp 193=0.9DL+lce-0.866WLxi+0.5WLzi+Temp 194=0.9DL+lce-WLxi+Temp 195=0.9DL+lce-0.866WLxi-0.5WLzi+Temp 196=0.9DL+lce-0.707WLxi-0.707WLzi+Temp 197=0.9DL+lce-0.5WLxi-0.866WLzi+Temp 198=0.9DL+lce-WLzi+Temp 199=0.9DL+lce+0.5WLxi-0.866WLzi+Temp I100=0.9DL+!ce+0.707WLxi-0.707WLzi+Temp 1101=0.9DL+lce+0.866WLxi-0.5WLzi+Temp

Description	Section	Member	Ctrl Eq.	Ratio	Status	Reference
Arm Tab	2 x 1/2	65	l27 at 0.00%	0.67	OK	
		66	132 at 0.00%	0.92	ок	
		67	136 at 0.00%	0.62	OK	
		68	126 at 0.00%	0.86	OK	
		69	126 at 100.00%	0.59	OK	
		70	I35 at 100.00%	0.65	OK	
		71	127 at 100.00%	0.82	OK	
		72	134 at 100.00%	0.89	OK	
CDMA Pipe	PIPE 2-1_2x0.203	80	D19 at 56.25%	0.56	ОК	
	_	83	D11 at 54.17%	0.56	ок	

Page2

		103	D11 at 54.17%	0.56	ок	
			W6-4			
Connect Offset	6 x 1/2	57	126 at 0.00%	0.00	OK	
		58	135 at 0.00%	0.00	OK	
		59	134 at 0.00%	0.00	OK	
		60	D10 at 0.00%	0.00	ок	
Doubled RRU11s	Standard Link	156	l33 at 0.00%	0.00	OK	
Equipment Pipe	PIPE 2x0.154	127	D19 at 26.04%	0.16	OK	
Equipment 1po	1 11 L LAU. 104	132	133 at 73.75%	0.17	oK	
				~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	*******
Face Connecter	6 x 1/2	99	I35 at 0.00%	0.23	OK	
		100	D10 at 0.00%	0.22	OK	
		101	133 at 0.00%	0.30	OK	
		102	D10 at 0.00%	0.36	ок	
Face Horizontal	PIPE 2x0.218XS	54	D10 at 82.03%	0.94	OK	
1 ace Honzontal	111 2 200.21000	5 <del>6</del>	134 at 81.25%	0.36	OK	
		•••				~~~~
Leg Mount Plate	4 x .625	95	D74 at 100.00%	0.02	OK	
		96	D71 at 100.00%	0.03	OK	
		97	I23 at 0.00%	0.02	OK	
		98	122 at 100.00%	0.03	ок	
LTE Pipe	DIDE 2 4 240 202	148	D11 at 54.69%	Λ 00	OK	
LIE Libe	PIPE 2-1_2x0.203	150	D11 at 54.17%	<b>0.88</b> 0.87	OK	
		100	D11 at 04.17 /0			
<u>Raycap</u>	Standard Link	153	123 at 0.00%	0.00	OK	
		154	123 at 0.00%	0.00	OK	
Rigid Link		61	D10 at 50,00%	0.00	OK	
		62	D7 at 46.88%	0.00	OK	
		63	135 at 46.88%	0.00	OK	
		64	135 at 50.00%	0.00	OK	
		84	D10 at 100.00%	0.00	OK	
		85	D18 at 100.00%	0.00	OK	
		86	D19 at 0.00%	0.00	OK	
		87	D18 at 100.00%	0.00	ОК	
		88	D10 at 100.00%	0.00	OK	
		89	D18 at 100.00%	0.00	OK	
		90	D10 at 100.00%	0.00	OK	
		91	D18 at 100.00%	0.00	ок	
		104	D10 at 0.00%	0.00	OK	
		105	D10 at 100.00%	0.00	OK	
		130	D17 at 0.00%	0.00	OK	
		131	D16 at 0.00%	0.00	OK	
		134	130 at 0.00%	0.00	OK	
		135	l35 at 0.00%	0.00	OK	
RRU 4449		157	I36 at 0.00%	0.00	OK	
RRU 8843		158	I36 at 0.00%	0.00	OK 	
Stabilizer Arm	PIPE 2x0.154	125	I22 at 50.00%	0.11	OK	
		126	D13 at 50.00%	0.49	ок	
	B 1B 4 1		100 4/			
V-Frame Diagonal	RndBar 3_4	77 <b>7</b> 0	126 at 100.00%	0.50	OK OK	
		78	l26 at 100.00%	0.40	OK	
V-Frame Horizontal	PIPE 2x0.218X\$	55	I35 at 98.44%	0.17	OK	
		92	l22 at 51.56%	0.18	ок	
		93	l25 at 96.88%	0.25	OK	
		94	l32 at 98.44%	0.25	ок	
1,2 mm	m /m		100			******
V-Frame Vertical	RndBar 3_4	73	125 at 100.00%	0.61	OK	
		74	I26 at 100.00%	0.44	OK	

75 125 at 100.00% 0.35 OK 76 127 at 100.00% 0.47 OK

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#### **Steel Code Check**

Report: Comprehensive

Members: Hot-rolled

Design code: AISC 360-2016 LRFD

Member

54 (Face Horizontal)

Design status

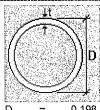
OK

**DESIGN WARNINGS** 

#### **Section information**

Section name: PIPE 2x0.218XS (US)

#### **Dimensions**



D = 0.198 [ft] t = 0.017 [ft] Diameter Thickness

#### **Properties**

Section properties	Unit	Major axis	Minor axis
Gross area of the section. (Ag)	[ft2]	0.010	
Moment of Inertia (local axes) (I)	[ft4]	3.99E-05	3.99E-05
Moment of Inertia (principal axes) (I')	[ft4]	3.99E-05	3.99E-05
Bending constant for moments (principal axis) (J')	[ft]	0.000	0.000
Radius of gyration (local axes) (r)	[ft]	0.064	0.064
Radius of gyration (principal axes) (r')	[ft]	0.064	0.064
Saint-Venant torsion constant. (J)	[ft4]	7.96E-05	
Section warping constant. (Cw)	[ft6]	0.000	
Distance from centroid to shear center (principal axis) (xo,yo)	[ft]	0.000	0.000
Top elastic section modulus of the section (local axis) (Ssup)	[ft3]	4.03E-04	4.03E-04
Bottom elastic section modulus of the section (local axis) (Sinf)	[ft3]	4.03E-04	4.03E-04
Top elastic section modulus of the section (principal axis) (S'sup)	[ft3]	4.03E-04	4.03E-04
Bottom elastic section modulus of the section (principal axis) (S'inf)	[ft3]	4.03E-04	4.03E-04
Plastic section modulus (local axis) (Z)	[ft3]	5.58E-04	5.58E-04
Plastic section modulus (principal axis) (Z')	[ft3]	5.58E-04	5.58E-04
Polar radius of gyration. (ro)	[ft]	0.090	
Area for shear (Aw)	[ft2]	0.006	0.006
Torsional constant. (C)	[ft3]	8.71E-04	

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#### Material: A572 Gr50

Properties	Unit	Value
Yield stress (Fy):	[Kip/in2]	50.00
Tensile strength (Fu):	[Kip/in2]	65.00
Elasticity Modulus (E):	[Kip/in2]	29000.00
Shear modulus for steel (G):	[Kip/in2]	11507.94

#### **DESIGN CRITERIA**

Description	Unit	Value
Length for tension slenderness ratio (L)	[ft]	8.32

#### Distance between member lateral bracing points

Length (	Lb) [ft]	
Тор	Bottom	
		**************************************
2.34	2.34	
8,32	8.32	
2.34	2.34	

#### Laterally unbraced length

Major axis(L33)	Length [ft] Minor axis(L22)	Torsional axis(Lt)	Major axis(K33)	Effective length factor Minor axis(K22)	Torsional axis(Kt)
2.34	2.34	13.00	1.0	1.0	1.0
8.32	8.32		1.0	1.0	
2.34	2.34		1.0	1.0	

#### Additional assumptions

, radio not despiripitatio	
Continuous lateral torsional restraint	No
Tension field action	No
Continuous flexural torsional restraint	No
Effective length factor value type	None
Major axis frame type	Sway
Minor axis frame type	Sway

#### **DESIGN CHECKS**

#### **AXIAL TENSION DESIGN**

#### **Axial tension**

Ratio	:	0.07	
Capacity	:	62.55 [Kip]	
Demand		4.63 [Kin]	

: Cl.D2 Reference Ctrl Eq. : D73 at 73.44%

Intermediate results	Unit	Value	Reference
Factored axial tension capacity(φPn)	[Kip]	62.55	Cl.D2

AXIAL COMPRESSION DESIGN

#### Compression in the major axis 33

Ratio

0.26

Demand

Capacity : 18.74 [Kip]
Demand : 4.80 [Kip]

: 4.80 [Kip]

Reference : CI.E3 Ctrl Eq. : D17 at

: D17 at 73.44%

Intermediate results	Unit	Value	Reference
Section classification			
Unstiffened element classification		Non slender	
Unstiffened element slenderness $(\lambda)$		11.64	
Unstiffened element limiting slenderness $(\lambda_r)$		63.80	Table.4.1a.Case9
Stiffened element classification		Non slender	
Stiffened element slenderness ( $\lambda$ )		11.64	
Stiffened element limiting slenderness $(\lambda_f)$		63.80	Table.4.1a.Case9
Factored flexural buckling strength(\$\Pn33\$)	[Kip]	18.74	CI.E3
Effective area of the cross section based on the effective width (A	[in2]	1.39	
Critical stress for flexural buckling (Fcr33)	[Kip/in2]	14.98	Eq.E3-3
Nominal flexural buckling strength (Pn33)	[Kip]	20.83	Eq.E3-1

#### Compression in the minor axis 22

Ratio

0.26

Capacity Demand

18.74 [Kip] 4.80 [Kip]

Reference : CI.E3 Ctri Eq. : D17 at 73.44%

Intermediate results	Unit	Value	Reference
Section classification			
Unstiffened element classification		Non slender	
Unstiffened element slenderness ( $\lambda$ )		11.64	
Unstiffened element limiting slenderness (\(\lambda_r\))		63.80	Table.4,1a.Case9
Stiffened element classification		Non slender	
Stiffened element slenderness ( $\lambda$ )		11.64	
Stiffened element limiting slenderness $(\lambda_r)$		63.80	Table.4.1a.Case9
Factored flexural buckling strength(  Pn22)	[Kip]	18.74	CI.E3
Unbraced length (L22)	[ft]	8.32	Cl.E2
Effective slenderness ((KL/r)22)		129.44	CI.E2
Elastic critical buckling stress (Fe22)	[Kip/in2]	17.08	Eq.E3-4
Effective area of the cross section based on the effective width (A	[in2]	1.39	
Nominal flexural buckling strength (Pn22)	[Kip]	20.83	Eq.E3-1

#### FLEXURAL DESIGN

#### Bending about major axis, M33

Ratio

0.27

Capacity Demand

3.62 [Kip*ft]

-0.98 [Kip*ft]

Reference Ctrl Eq.

: Cl.F8.1 : 126 at 8 : I26 at 81.25%

Intermediate results	Unit	Value	Reference
Section classification	Wada		
Unstiffened element classification		Compact	
Unstiffened element slenderness ( $\lambda$ )		11.64	
Limiting slenderness for noncompact unstiffened element $(\lambda_r)$		179.80	
Limiting slenderness for compact unstiffened element $(\lambda_p)$	<del></del>	40.60	
Stiffened element classification		Compact	

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Stiffened element slenderness $(\lambda)$		11.64		
Limiting slenderness for noncompact stiffened element $(\lambda_r)$		179.80		
Limiting slenderness for compact stiffened element $(\lambda_p)$		40.60		
Factored yielding strength(\$\psi\$Mn)	[Kip*ft]	3.62	CI.F8.1	
Yielding (Mn)	[Kip*ft]	4.02	Eq.F8-1	

#### Bending about minor axis, M22

Ratio

3.62 [Kip*ft] Capacity

0.84

-3.02 [Kip*ft] Demand

Reference : Ci.F8.1

: D18 at 82.03% Ctrl Eq.

Intermediate results	Unit	Value	Reference
Section classification		######################################	
Unstiffened element classification		Compact	
Unstiffened element slenderness $(\lambda)$		11.64	
Limiting slenderness for noncompact unstiffened element $(\lambda_r)$		179.80	
Limiting slenderness for compact unstiffened element $(\lambda_p)$		40.60	
Stiffened element classification		Compact	
Stiffened element slenderness $(\lambda)$		11.64	
Limiting slenderness for noncompact stiffened element ( $\lambda_r$ )		179.80	
Limiting slenderness for compact stiffened element $(\lambda_p)$		40.60	
Factored yielding strength about a geometric axis(\$\Phi Mn)	[Kip*ft]	3.62	CI.F8.1
Yielding (Mn)	[Kip*ft]	4.02	Eq.F8-1

#### **DESIGN FOR SHEAR**



#### Shear in major axis 33

Ratio

0.12 18.76 [Kip] Capacity

Demand 2.30 [Kip] Reference Ctrl Eq.

: Cl.G1

: D18 at 81.25%

Intermediate results	Unit	Value	Reference
Factored shear capacity( $\phi$ Vn) Critical shear stress for round HSS (Fcr) Nominal shear strength (Vn)	[Kip]	18.76	Cl.G1
	[Kip/in2]	30.00	Eq.G5-2
	[Kip]	20.85	Eq.G5-1

#### Shear in minor axis 22

0.05 Ratio

18.76 [Kip] Capacity

0.97 [Kip] Demand

Reference Ctrl Eq.

: Cl.G1

: I27 at 81.25%

Intermediate results	Unit	Value	Reference
<u>Factored shear capacity</u> (φVn) Critical shear stress for round HSS (Fcr)	[Kip]	18.76	Cl.G1
	[Kip/in2]	30.00	Eq.G5-2

#### **TORSION DESIGN**



#### **Torsion**

Ratio

0.07

Capacity

3.39 [Kip*ft]

Demand

-0.25 [Kip*ft]

Reference : Cl.H3.1

Ctrl Eq.

: D10 at 18.75%

Intermediate results	Unit	Value	Reference	
<u>Factored torsion capacitv</u> (∳Tn) Critical torsional buckling stress (Fcr) Nominal torsion capacity (Tn)	[Kip*ft] [Kip/in2] [Kip*ft]	3.39 30.00 3.76	Cl.H3.1 Cl.H3.1(a) Eq.H3-1	

#### COMBINED ACTIONS DESIGN

#### Combined flexure and axial

Ratio

: 0.94 : D10

Ctrl Eq.

D10 at 82.03%

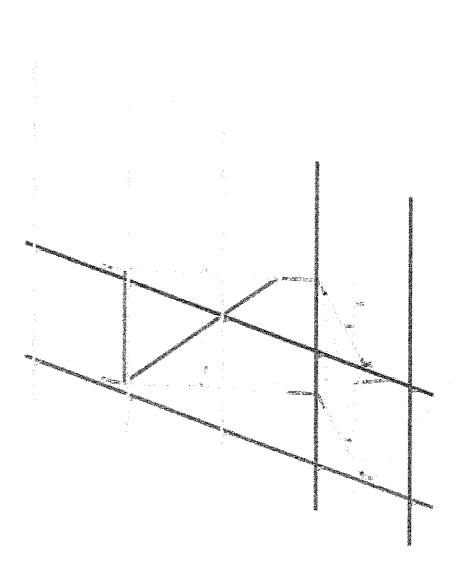
Reference

Intermediate results	Unit	Value	Reference	
Interaction of flexure and axial force		0.94	Eq.H1-1b	
Available flexural strength about weak axis (Mc22)	[Kip*ft]	3.62	CI.H1.1	
Available axial strength (Pc)	[Kip]	62.55	Cl.H1.1	



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Units system: English
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Stress ratio AISC/AISI/BS/AS/CSA/NDS

0.73 0.63

0.52

0.42 0.31

0.21

0.10 8.432E-05

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Units system: English

File name: M:\Structural\Antenna Mounts\Mount Research\2020\2020-12-07

Equipment layout used for this general analysis. Note this may not represent the actual loading configuration for this site.

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File Number: 177-0-108

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#### PREPARED FOR:

# Xuscellular

### STRUCTURAL ANALYSIS REPORT

190 FT GUYED TOWER
MODERNIZATION INSTALLATION
LANNON (784320)
MENOMONEE FALLS; WISCONSIN

EDGE PROJECT NUMBER: 30472

OCTOBER 31, 2022



Consulting Engineers, Inc.

624 Water Street Prairie du Sac, Wisconsin 53578 608.644.1449 Phone 608.644.1549 Fax www.edgeconsult.com

Referenced on a 05/06/23

#### STRUCTURAL ANALYSIS REPORT

**Project Information:** 

LANNON

Menomonee Falls, WI 43.16245, -88.16459

**Client/Tower Owner:** 

U.S. Cellular

8410 W. Bryn Mawr Ave., Suite 700

Chicago, IL 60631 Contact: Michele Roth

**Client Project Number:** 

784320

Consultant:

Edge Consulting Engineers

624 Water Street

Prairie du Sac, WI 53578

Contact: Michael R. Muehrer, P.E.

Phone: (608) 644-1449

**Edge Project Number:** 

30472

Date:

October 31, 2022

Tyler A. Clausen, É.I.T.

Project Engineer

10/31/22 Date

MIDDLETON

KANNE E-45657

Chris C. Kanne, P.E.

10/31/22 Date

Referred on: 03/06/23

Professional Engineer

File Number: 177-0-108

Referred to: JU

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#### **FIGURES**

Figure 1: Feedline Placement Diagram

#### **APPENDICES**

Appendix A: Structural Calculations

# SECTION 1 EXECUTIVE SUMMARY

Site Name:

LANNON

Site Location:

Menomonee Falls, Wisconsin

Tower Type:

190 ft. Guyed Tower

A structural analysis for the above-described tower pursuant to the ANSI/TIA-222-G standard (TIA-222) was completed. One loading scenario was considered in the analysis. This is further described in Section 3.2, with reference to the feedline placement diagram (Figure 1).

The analysis was completed per the TIA-222 standard and is considered a rigorous analysis.

The results of our analysis indicate that the existing tower <u>is structurally adequate</u> to support the described loading. Refer to Section 3.5 for additional information regarding assumptions for this analysis.

Please refer to the report which follows this summary for further information. Feel free to contact us if you have any questions or concerns.

# SECTION 2 INTRODUCTION

#### 2.1 PURPOSE OF REPORT

Edge Consulting Engineers (Edge) performed a structural analysis for the existing tower to determine whether the tower is structurally adequate to support the loading condition referenced in Section 3.2, pursuant to the TIA-222 standard. This assessment was completed using background information provided by the client and/or obtained in the field (where noted) and in conformance with current applicable codes, client directed protocols, and the judgment of the structural engineer.

#### 2.2 SCOPE OF SERVICES

The scope of services for this project included a structural analysis and modeling of the tower structure and foundation systems in accordance with client supplied information. This type of analysis, under the TIA-222 standard, is considered to be a "rigorous" analysis of the tower.

This report summarizes the structural analysis results.

### SECTION 3 ANALYSIS

#### 3.1 BACKGROUND INFORMATION

The subject tower is an existing Rohn 190 foot tall, Model No. 80 guyed tower which was originally designed in October of 1989. It is our understanding that the tower geometry has been altered from the original design. We were provided the following information at the project outset:

- 1. Tower & foundation drawings: Rohn Eng. File: 25029JC dated 10/3/1989
- 2. Structural analysis: Ramaker Eng. File: 19103 dated 8/2/2011
- 3. Tower modification drawings: Ehresmann Eng. File: 40451 dated 12/22/1999*
- 4. Tower inventory confirmation per Edge inventory report dated 5/3/2022
- 5. Proposed antenna and feedline loading configuration
- 6. Geotechnical report: Edge Eng. File: 30472 dated 10/3/2022

*During the completed site visit, it was observed that galvanized bracing was installed on the tower. While on site, no measurements were obtained on the installed members. From this observation, it was assumed that the modification properly engineered and installed.

#### 3.2 LOADING CONDITION

The listed heights for appurtenances are representative of the centerline. For omni and dipole antennas the listed heights represent the base of the antenna.

The following loading condition was considered during this analysis:

Ant. Height	#	Manufacturer & Model #	Mounting Type	Technology / Notes	Feedline (#) Size	Owner	Status
188'	3	10' Bogner	Bogner Mount	Bogner	(3) 1-1/4" (1) 1/2"	County	Existing
165'	2	Vacant Sector Frames				U.S. Cellular	Existing (Remove Frames)
144'	1	20' Dipole	6' Standoff	Dipole	(1) 1/2"	County	Existing
135'	1	RFS 4' Dish	Pipe Mount	Dish	(1) EW90	County	Existing
126'	1	KMW AM-X-CW-18-65-00T-RET	12' Sector Frame	LTE	(2) 1-5/8" (Remove)	U.S. Cellular	Existing (Remove Panel)
124.5'	1	Dengyo QUA8-1LX1HX-BW65	12' HD V-Frame	Panel		U.S. Cellular	Proposed
124.5'	2	Amphenol WPA-80063/8CF E-DIN	12' HD V-Frame	CDMA	(2) 1-5/8"	U.S. Cellular	Existing
124'	1	Ericsson KRC 115 032/2 RIU	12' Sector Frame	RIU		U.S. Cellular	Existing (Remove RiU)
116'	1	Ericsson RRU-4449	Lattice Mount	RRU		U.S. Cellular	Proposed
116'	1	Raycap RUSDC-6267-PF-48	Lattice Mount	SPD	(1) Hybrid	U.S. Cellular	Proposed
76'	2	KMW AM-X-CW-18-65-00T-RET	12' Sector Frame	LTE	(4) 1-5/8" (Remove)	U.S. Cellular	Existing (Remove Panels)
74'	2	Ericsson KRC 115 032/2 RIU	12' Sector Frame	RIU		U.S. Cellular	Existing (Remove RIUs)
74'	2	Dengyo QUA8-1LX1HX-BW65	12' HD V-Frame	Panel		U.S. Cellular	Proposed
74'	4	Amphenol WPA-80063/8CF E-DIN	12' HD V-Frame	CDMA	(4) 1-5/8"	U.S. Cellular	Existing
66'	1	Ericsson RRU-4449	Lattice Mount	RRU		U.S. Celiular	Proposed
66'	1	Raycap RUSDC-6267-PF-48	Lattice Mount	SPD	(1) Hybrid	U.S. Cellular	Proposed

If the loading condition is altered from that analyzed, this report shall be deemed obsolete and further analysis will be required.

The feedline placement associated with the loading condition which was considered in this analysis is attached as Figure 1. The loading condition is further described in the Designed Appurtenance Loading table provided in Appendix A.

#### 3.3 ANALYSIS CRITERIA

This analysis used the following structural design criteria:

#### Location

Waukesha County, WI

#### Governing Code/Standard Used

TIA-EIA Rev. G

#### General Structural Design Criteria

Importance/Risk Category

Wind Speed

**Exposure Category** 

Topographic Category

ice Thickness

Wind Speed w/ Ice

Ш

115 mph (Ultimate/Strength Level)

C

1 - Flat/Rolling

0.75"

40 mph

These criteria were selected based on the location and use of the subject tower. The client and/or tower owner <u>must</u> review these criteria for applicability and notify Edge if a different tower structure class, topographic category, or exposure criteria are warranted.

#### 3.4 ANALYSIS METHOD

Structural analysis computations and modeling of the tower structure were performed using TNX Tower Version 8.0 software. TNX Tower is a general-purpose modeling, analysis, and design program created specifically for communications towers using the TIA-222-H or any previous TIA/EIA Standards back to RS-222 (1959). Steel design is checked using the referenced AISC Specifications. This program automatically generates nodes and elements for a subsequent finite element analysis (FEA) for standard tower types including self-support towers, guyed towers and monopoles. It allows entry of dishes, feedlines, discrete loads (loads from appurtenances) and user defined loads anywhere on the tower. TNX Tower uses wind effects from multiple directions and ice loads to develop pressure coefficients, wind pressures, ice loads and resulting forces on the tower per TIA-222 requirements.

The tower foundation system was also reviewed for the resulting applied forces due to the described loading condition. Items reviewed include checking the global overturning and shear of the foundation system. In addition, the anchor bolts and guy anchors (where applicable) were also reviewed for structural adequacy.

#### 3.5 ASSUMPTIONS

For the purpose of this analysis, it has been assumed that the tower and foundation have been properly installed and maintained per the manufacturer's specifications and recommendations. Further limitations and restrictions have been provided in Section 5.

Because complete information was not readily available in the information provided, Edge made the following assumptions:

- 1. The following member sizes are met or exceeded:
  - a. 1-1/8" Solid Round for guy anchor rod
- 2. The following material grades are met or exceeded:
  - a. A572-50 for the guy anchor shafts
- 3. Due to limitations in the software program, it is not possible to configure the tower with the geometry as fabricated and installed. The program is not capable of having two different diagonal bracing shapes for the same section. This model most closely represents the structure as it was constructed and it provides accurate results.
- 4. Edge distances from the center of the bolt hole to the edge of the member are at least current code minimum.

If it is determined that any of these additional assumptions are not accurate, this analysis is void and an additional analysis should be performed.

### SECTION 4 RESULTS

#### 4.1 TOWER STRUCTURE

The analysis results of the existing tower structure when considering the described loading condition indicate the tower structure <u>is structurally adequate</u>. Refer to Section 3.5 for additional information regarding assumptions for this analysis.

Capacity - Results	Capacity - Results				
Tower Structure Elements	Capacity Ratio (%)	Comment			
Legs					
90'-110'	79.5%	Adequate			
Diagonals					
90'-110'	73.8%	Adequate			
Horizontals					
0.1'-4.5'	29.2%	Adequate			
Girts					
0.1'-4.5'	36.4%	Adequate			
Guys					
69'	81.3%	Adequate			
Top Guy Pull-Off					
69'	7.5%	Adequate			
Torque Arm Top					
120'	40.7%	Adequate			
Bolts					
90'-110' (Diagonal Member Bearing)	70.2%	Adequate			

Diagrams of the tower's maximum deflection, tilt, and twist are provided in Appendix A.

#### 4.2 TOWER FOUNDATIONS

The results of the analysis indicate that the tower base foundation <u>is adequate</u>. From this analysis it was determined that the foundation meets strength requirements per the current ACI specification.

The existing guy anchors were evaluated for both sliding and uplift as per the given soil properties from the geotechnical report. The reactions in the guy anchors from the described loading condition are less than the allowable. Therefore, the anchors <u>are considered</u> <u>structurally adequate</u>.

Refer to Appendix A for support calculations and to Section 3.5 for additional information regarding assumptions for this analysis.

#### 4.3 RECOMMENDATIONS

The client and tower owner shall closely review this report including assumptions made, analysis criteria selected and loading conditions modeled. Any questions or discrepancies with these items shall be clarified with the engineer.

Edge recommends that qualified personnel assess the physical condition of the tower, in accordance with the guidelines and frequency provided in the TIA-222 standard.

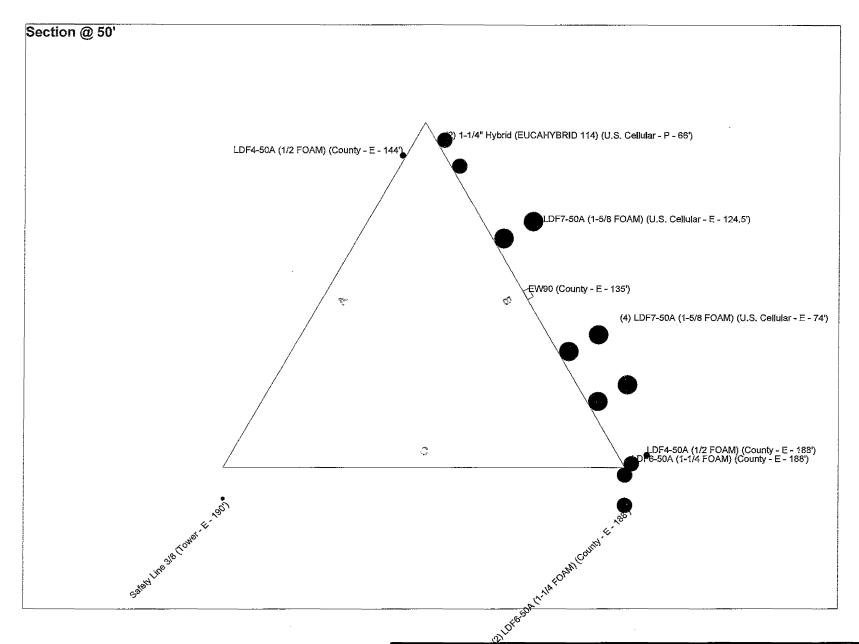
# SECTION 5 LIMITATIONS AND RESTRICTIONS

- 1. This report was prepared in accordance with generally accepted structural engineering practices common to the tower industry and makes no other warranties, either expressed or implied, as to the professional advice provided under the terms of the agreement between Engineer and Client. This report has not been prepared for uses or parties other than those specifically named, or for uses or applications other than those enumerated herein. The report may contain insufficient or inaccurate information for other purposes, applications, and/or other uses.
- 2. This report is intended for the use of the client, and cannot be utilized or relied upon by other parties without the written consent of Edge Consulting Engineers.
- 3. Edge Consulting Engineers is not responsible for any, and all, tower modifications completed prior to, or hereafter, which Edge Consulting Engineers was not, or will not, be directly involved.
- 4. The model, conclusions, and recommendations contained within this report are based upon the supplied and attained information as described within the report and supplemented with historical information available to Edge Consulting Engineers. If it is known, or becomes known, that any item(s) are in conflict with what is described within this document, this report should be considered void and Edge Consulting Engineers should be contacted immediately.
- Edge Consulting Engineers disclaims all liability for any information, conclusion, or recommendation that is not expressly stated or represented within this report.
- 6. Edge Consulting Engineers shall not be liable for any incidental, consequential, indirect, special or punitive damages arising out of any claim associated with the use of this report.
- 7. The scope of work performed for this analysis is limited to the items in which we were furnished complete and accurate information.
- 8. Accessories and appurtenances such as antenna mounts, feed line ladders, climbing ladders, lighting mounts, etc. were not analyzed as part of this work, and Edge Consulting Engineers makes no claim as to their adequacy of their design or their installation.
- 9. This analysis was performed under the assumption that all tower elements are in like new condition, free from rust and other deterioration. Additionally, this analysis assumes that all installed modification designs were thoroughly reviewed and approved by the respective engineer of record and they are able to carry their intended design capacity. It is also assumed the tower was properly installed per construction documents, and that the tower and all associated appurtenances were originally designed and fabricated in accordance with all applicable codes and standards. Edge Consulting Engineers cannot account for, nor be held responsible, if tower elements are deteriorated, damaged, and/or missing.
- 10. This tower analysis was performed based upon the antenna, feed line and other appurtenance loading and placement as described within this report. Any alterations to the described loading or placement will require re-analysis of the tower, and the findings contained in this report are not valid.
- 11. The loading conditions utilized for this analysis is based on information provided by the client, and readily available manufacturer/vendor information (antenna and mount projected areas, weight and shape factors). However, if the described loading criteria and design assumptions within this report are not accurate, are altered, or changed in any form, this analysis shall be considered void and an additional analysis must be performed.
- 12. It is the responsibility of the client and the tower owner to thoroughly review the existing and proposed loading, and bring any discrepancy to the attention of Edge Consulting Engineers.
- 13. Modification designs are to be based upon a rigorous or comprehensive analysis per the referenced TiA-222 standard. As such designs assume any suggested modifications are installed as recommended and are not intended to address temporary conditions on the tower as modifications are being performed. It is strongly recommended that the Installer of any tower modification thoroughly assess installation procedures and how temporary conditions present while modifications are being performed influence tower members. Installer is responsible for sequence of operation and any required temporary bracing or strengthening of tower during modification operations.
- 14. Site-specific loading or local building code requirements may be more stringent than the minimum loading requirements specified in the Standard. These and other unique loads or loading combination requirements are to be specified by the owner (in the procurement specifications).
- 15. Supplementary rime ice and in-cloud ice loadings (including thickness, density, escalation with height and corresponding wind speed) are to be included in the procurement specification when appropriate for a given site location.
- 16. The service loads and deformation limits specified in the Standard are the minimum requirements for communication structures. When more stringent requirements are required for a specific application, the serviceability limit state basic wind speed and, if required, the serviceability limit state design ice thickness; the deformation limitations (twist, sway and horizontal displacement) and the location/elevation where the deformation limitations apply are to be included in the procurement specification.

### Figure 1

Feedline Placement Diagram

Round Flat App In Face App Out Face



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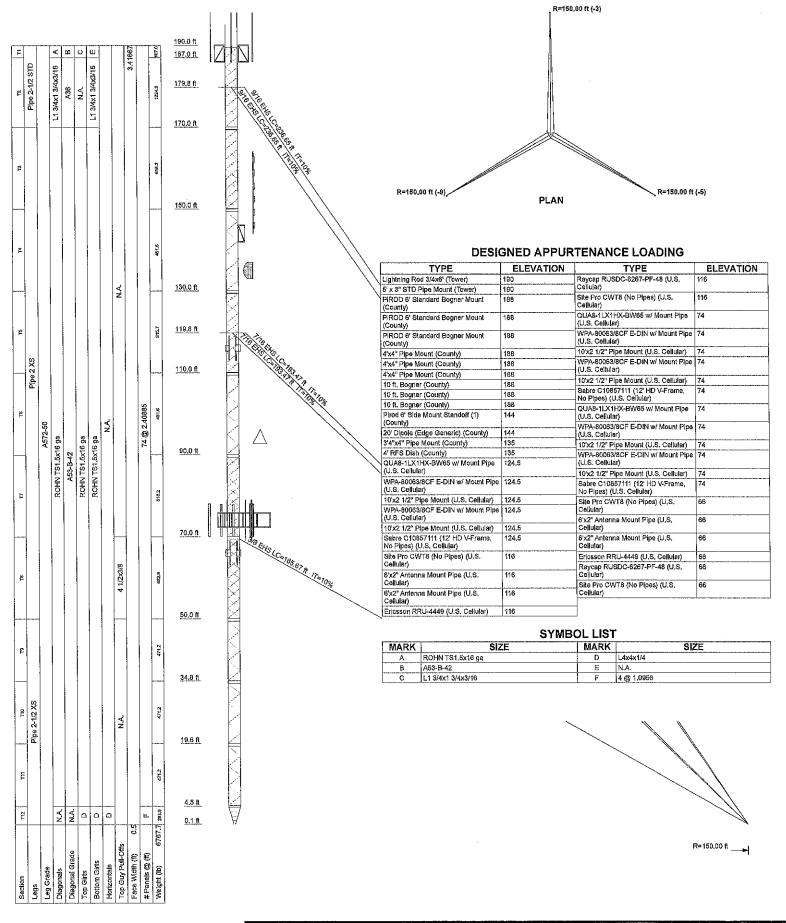
Lannon (7843)	20)	
Project: 30472		
Client: U.S. Cellular	Drawn by: tclausen	App'd:
Code: TIA-222-G	Date: 10/26/22	Scale: NT
Path:	entry of our Model 1047? Lancon [754120] THX Tever_21	Dwg No. E-

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File Number: 177-0-108



Structural Calculations



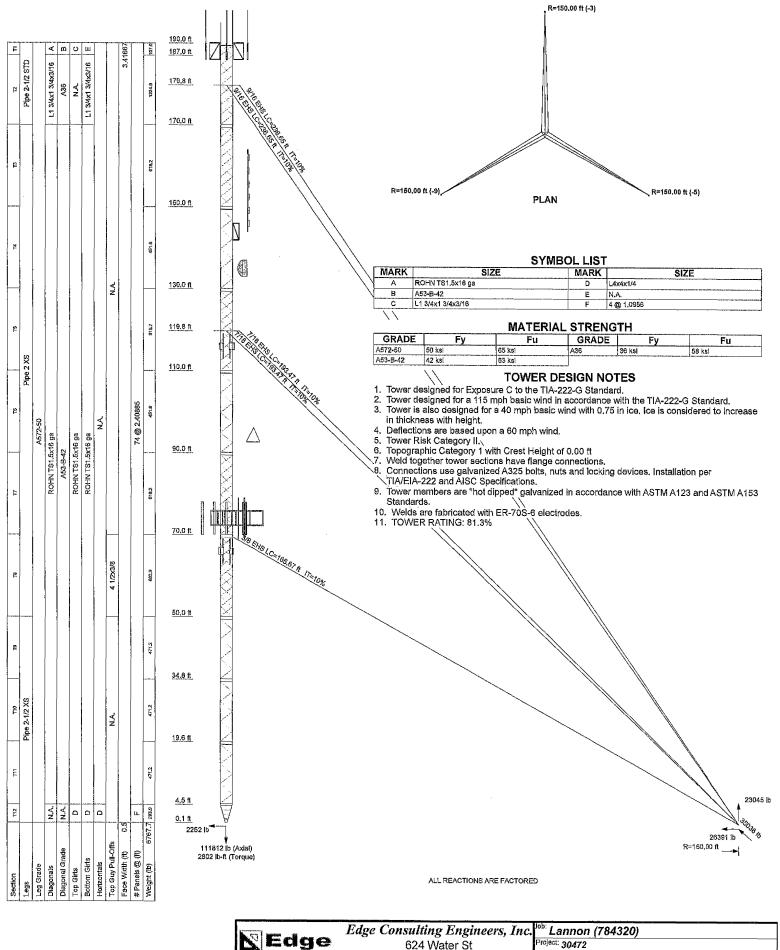
Edge Consulting Engineers, Inc. ^{b:} Lannon (784320) **Edge** ^{Project:} 30472 624 Water St Client: U.S. Cellular Consulting Engineers, inc. Drawn by: tolausen App'd: Prairie Du Sac, WI 53578 Scale: NTS Date: 10/31/22 Code: TIA-222-G Phone: (608) 644-1449 Dwg No. E-1 FAX: (608) 644-1549

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File Number: 177-0-108

Phone: (608) 644-1449 FAX: (608) 644-1549

Client: U.S. Cellular Drawn by: tclausen Date: 10/31/22 Code: TIA-222-G

Referred to: JU

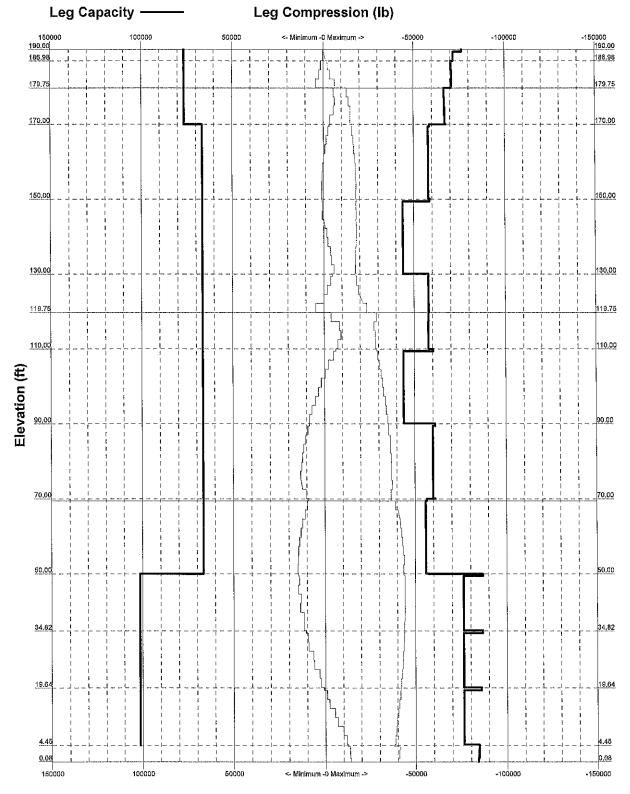
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App'd;

Scale: NTS

Dwg No. E-1

TIA-222-G - 115 mph/40 mph 0.7500 in Ice Exposure C





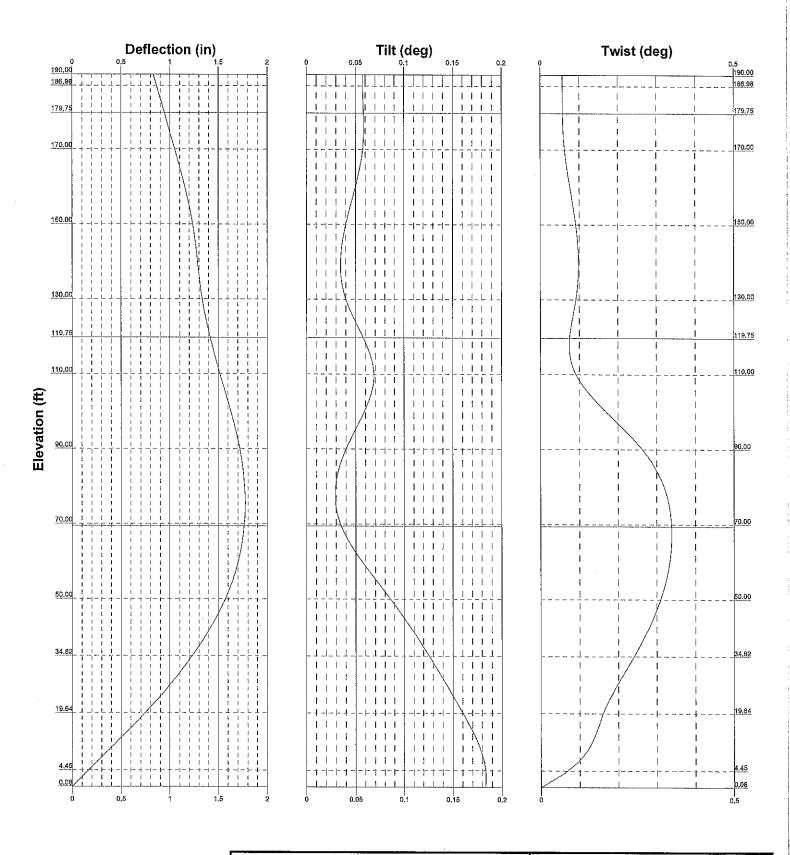
Edge Consulting Engineers, Inc. | Job: Lannon (784320) | 624 Water St

624 Water St Prairie Du Sac, WI 53578 Phone: (608) 644-1449 FAX: (608) 644-1549

Lamon (104320)				
Project: 30472				
^{Client:} U.S. Cellular	Drawn by: tclausen	App'd:		
Code: TIA-222-G	Dale: 10/31/22	Scale: NTS		
Path: 1304000047850estura2022-19-25 Town A	nsini Piterwi Model 20472 Largon (784) 201 INX Texes 20	Dwg No. E-3		

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File Number: 177-0-108



Edge Consulting Engineers, Inc Edge Consulting Engineers, Inc.

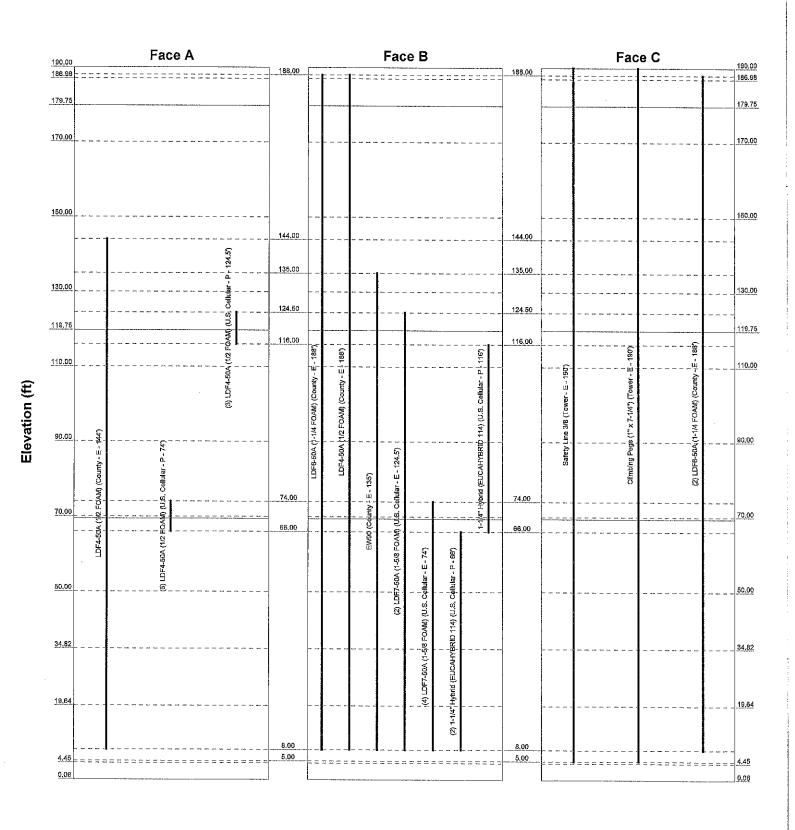
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### Feed Line Distribution Chart 31/32" - 190'

Round Flat App in Face App Out Face Truss Let



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~~~ Lannon (784320)						
Project: 30472						
Client: U.S. Cellular	Drawn by: tclausen	App'd;				
Coda: TIA-222-G	Date: 10/31/22	Scale: NT				
Path:		Dwg No. F.				

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File Number: 177-0-108

Foundation Analysis

Project Name - LANNON (784320) Menomonee Falls, Wisconsin Edge #30472

	dge)
Consulting	Engineers,	inc.

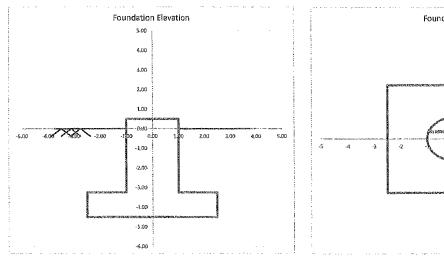
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Checked By: CCK

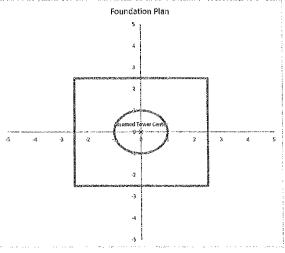
General Information:

Design Code: ACI 318-14 Footing Type: Spread Footing Column Type: Pedestal

Geometry:

Existing Foundation	1		
Foundation Depth =	4,50	ft	
Slab Length (Z) ≃	5,00	ft	
Slab Width (X) =	5.00	ft	
Slab Thickness =	15.00	in	
Pier Heighi =	3,75	ft	
Pier Shape =	Circle		
Pier Diameter =	2.00	ft	





Note: Vertical Axis is Y Axis and Horizontal Axis is Z Axis

Note: "Vertical" Axis is X Axis and "Horizontal" Axis is Z Axis

Materials:

Existing Foundation			
Concrete Strength (fo) =	3000	psi	
Concrete Unit Weight (w _c) =	150	pcf	> Normal Weight
Concrete Elasticity Modulus (E _o) =	3320.6	ksi	
Steel Elasticity Modulus (E _s) =	29000	ksi	
Pad, Steel Yield Stress (f _y) =	60	ksl	
Pier Vert, Bars, Steel Yield Stress (f _y) =	60	ksi	
Pier Ties, Steel Yield Stress (fy) =	60	ksi	

Soll Parameters:

Unit Weight of Soil (γ _{solt}) =	115	pcf
Submerged soil unit weight $(\gamma_{sub,soil}) =$	60	pcf
Coefficient of Friction Against Sliding =	0.25	Assume
Depth to Water Table =	gg	ft

Foundation Analysis

Project Name - LANNON (784320) Menomonee Falls, Wisconsin Edge #30472



Completed By: TAC Checked By: CCK

Reinforcement Details:

Existing Footing Reinforcement

Clear Cover: 3

Bottom Reinf.Parallel to X Axis: #5 @ 10.68" Bottom Reinf.Parallel to Z Axis: #5 @ 10,68"

Existing Pedestal Reinforcement

Clear Cover: 3

Vertical Reinforcement: (8) #6 Bars

Provided Area: 3,52 in²

Transverse Reinforcement: (4) #3 Ties

Legs Parallel to X Axis:

Legs Parallel to Z Axis:

2

Loading Conditions to be Included In Design:

Service Load Combinations:

\$1..... 1.0 D + 1.0 G

\$2...... 1,0 D + 1,0 G + 0,7 I

S3...... 1.0 D + 1.0 G + 0.6 Wo_x

S4...... 1.0 D + 1.0 G + 0,6 Wo_z

S5...... 1.0 D + 1.0 G + 0.7 I + 0.7 Wi_x

\$6...... 1.0 D + 1.0 G + 0.7 J + 0.7 Wi_z

\$7...... 0.6 D + 0.6 G + 0,6 Wo_x

\$8...... 0,6 D + 0,6 G + 0,6 Wo_z \$9...... 0.6 D + 0.6 G + 0.7 I + 0.7 Wi_x

\$10...... 0.6 D + 0.6 G + 0.7 [+ 0.7 Wi_z

Design Load Combinations:

D1...... 1.2 D + 1.0 G + 1.0 Wo_x

D2...... 1.2 D + 1.0 G + 1.0 Wo_z

D3...... 1.2 D + 1.0 G + 1.0 I + 1.0 Wi_x

D4...... 1.2 D + 1.0 G + 1.0 I + 1.0 WLz

D5...,... 1,2 D + 1,0 G

Applied Loads:

	Axial	Mxx	Mzz	Vx	٧z
Condition	(kip)	(kip*ft)	(kip*ft)	(kip)	(kip)
Dead Load (DL)	14.57	0	0	0	0
Ice Load (IL)	66.57	0	0	0	0
Guy Load (G)	26,2	0	0	0	٥
Wind w/out Ice (X-Dir.)	13.56	0	0	2.13	0
Wind w/out Ice (Z-Dir.)	13.56	0	0	0	2.13
Wind with Ice (X-Dir.)	1,56	0	0	0.29	0
Wind with Ice (Z-Dir.)	1.56	0	0	0	0.29

Foundation Analysis

Project Name - LANNON (784320) Menomonee Falls, Wisconsin Edge #30472



Completed By: TAC
Checked By: CCK

8.09

> 1,50

0

0

Results:

Soll Bearing:

Eccentricity in Z Direction≈ 0.0112 ft
Kern for Z Direction = 0.83 ft

Maximum Net Bearing Pressure = 3,654 psf
ASD Allowable, Net Bearing Capacity = 5,000 psf

DCR = 73.08%

Foundation Silding Check:

In Z Direction In X Direction Controlling Load Combination: 88 Controlling Load Combination: S7 Force Resisting Sliding ⊨ 10.34 klp Force Resisting Sliding = 10,34 kip S∥ding Force ¤ Sliding Force ⊨ 1.28 klp 1.28 kip

Factor of Safety = 8,09 > 1,50 S Factor of Safety =

Foundation Overturning Check:

About X-X Axis About Z-Z Axis Controlling Load Combination: Controlling Load Combination: 88 \$7 Restoring Moment = 103,43 kip-ft Restoring Moment = 103.43 kip-ft Overturning Moment = 6,39 kip⊶ft Overturning Moment = 6,39 kip-ft Factor of Safety = 16,19 > 1.50 Factor of Safety = 16.19 > 1.50

Footing Flexure Checks:

Reduction Factor: 0,9

Direction	Controlling Load Combination	Location	Fiexural Demand (M _u , kip)	Flexural Capacity (φM _n , kip)	DCR M _u / φM _n	Check
Bending About X Ax	is D3	Pier Face	25,63	89.54	28.6%	0
Bending About Z Ax	is D3	Pier Face	25,63	89.54	28.6%	0

Shear Checks (One-Way Shear):

Reduction Factor:

0,75

Shear Area;

664 in

	Direction	Controlling Load Combination	Location	Shear Demand (V _u , kip)	Shear Capacity (φV _o , kip)	DCR V _u / φV _e	Ch	eck
	Bending About X Axis	D3	Critical Section	13.19	54.53	24,2%		0
ſ	Bending About Z Axis	D3	Critical Section	13.19	54,53	24.2%		0

Punching Shear Checks (Two-Way Shear):

Reduction Factor:

0.75

Controlling Load Combination	Location	Perimeter at Critical Section (b _o , in)	Punching Shear Area (A _{or,} In ²)	Shear Demand (V _{ur} kip)	Shear Capacity (φV _o , kip)	DCR V _u / φV _e	Che	ck
D3	Existing Pier	111.13	1,264	81.80	207.72	39.4%		6

Guy Anchor Calculations

Project Name - LANNON (784320) Menomonee Falls, Wisconsin Edge #30472



Completed By: TAC
Checked By: CCK

Guy Anchor Reactions (150 ft. Radius):

Uplift (U) =	23,44	kip	*Per TNX Tower Output
Shear (V) =	26.39	kip	
Soll Properties:			
Soil Unit Weight (Ysot) ≈	115	lb/ft ³	
Effective Soll Unit Weight (Y'seil) =	60	lb/ft ³	
Depth to Water Table (d _{water}) ⊨	99	ft	
Soil Friction Angle (Φ_{soil}) =	15	a	
Ultimate Passive Earth Pressure (σ_p) =	676	psf/ft of soil depth	
Ultimate Skin Friction (o _s) =	0.0	psf	
Horizontal Plane Friction Coefficient (կդ) = Vertical Plane Friction Coefficient (և,) =	0.00		
vertical P(arie Priction Coefficient (µ _o) - phi factor (Φ) =	0,00 0.75		
piiridotoi (a) -	0.15		
Guy Anchor Geometry:			
Depth to Bottom of Guy Anchor (h) =	10.00	ft	
Guy Anchor Depth (d) =	2,00	ft	
Guy Anchor Width (b) =	3.00	ft	
Guy Anchor Length (L) = Guy Anchor Toe Height (t) ≒	6.00	ft ft	
Guy Andron Toe Height (t) =	0.00	n.	
Calculated Geometry			$w = \tan(\phi_{soil}) \cdot l$
			,
Soil Wedge Height Above Anchor (I _{min}) ≈	8.00	ft Soil Wedge Width Above	
Soll Wedge Height From Bottom (I _{max}) = Wet Soll Wedge Height Above Anglor (L) ≈	10.00	ft Soll Wedge Width From I ft Wet Soil Wedge Width Above	
Wet Soll Wedge Height Above Anchor (l _w) ≍ Wet Soil Wedge Height From Bottom (l _{m,w}) =	0.00	ft Wet Soil Wedge Width Above ft Wet Soil Wedge Width From	
tion and transfer training to the following the first	0.00	it you wan stong o than in fall	
Guy Anchor Forces:			
$W_{concrete} = d \cdot b \cdot L \cdot (\gamma_c = 150pcf)$			
reconcrete - u b L (re- 130pt)			
Effective Weight of Concrete Block (Wpongrete) =	5.4	kips	*If below water table, reduced by the weight of water
Effective Weight of Soil in Block (W _{block}) =	4.1	klps	*Weight of Anchor Block if it was soil for later calc.
1 /			•
$W_i = \frac{1}{3} \cdot l_i \cdot \left(b \cdot L + \sqrt{b \cdot L \cdot (b + 2w_i) \cdot (L + 2w_i)} \right) \cdot (L + 2w_i) \cdot (L + 2w_$	$(w_i) + (b)$	$+2w_i$) $\cdot (L+2w_i)$) $\cdot \frac{r_i}{1000}$	
Dry Weight of Soil Above Anchor (W _{min}) =		kips	
Dry Weight of Soil From Bottom (W _{max}) =	39.8 59.1	kips	
Buoyed Weight of Soll Above Anchor (Ww) =	0,0	kips	
Buoyed Weight of Soil From Bottom $(W_{m,w})$ =	0.0	kips	
$W_{top} = W_{min} - W_w W_{add}$	= Wmar	$-W_{m,w}-W_{top}-W_{block}$	
Net Weight of Soil Above Anchor (W _{top}) =	39.8	•	
Max Weight Increase to Bottom (W_{add}) =	15,2	kips kips	*Can't be less than zero
		, .	
$V_{tov} = 0.6 \cdot \frac{4}{3} \cdot \sqrt{f_c'} \cdot 2 \cdot (b+L) \cdot (t-2in)$			
v			
Concrete Toe Capacity (V _{toc}) =	0.0	kips	*Can't be less than zero
$W_{soil} = W_{top} + \min(W_{add}, V_{toe})$			
Effective Weight of Soil on Anchor (W _{soil}) =	39.8	kips	
		•	
$W_{dir} = (b \cdot L) \cdot ((l_{min} - l_w) \cdot \gamma_{soil} + l_w \cdot \gamma'_{soil})$	IJ.		
Weight Directly on Block (W _{di}) =	16.6	kips	
$N_{comv} = W_{Concrete} + W_{dlr} - U$			
Net Compression Force (N _{comp}) ≃	0,0	kips	*Can't be less than zero
	3,0	··· r -	
$F_{sf} = d \cdot (2 \cdot b + L) \cdot \sigma_s$			
Skin Friction on Block (F_{ql}) =	0.0	klps	
_ 1,			
$R_{soil} = \frac{1}{2} (\sigma_{p,top} + \sigma_{p,bottom}) \cdot d \cdot L$			
Passive Soil Pressure at Top of Block $(o_{b,top})$ =	5409	psf	
Passive Soil Pressure at Bottom of Block (Gp.bottom) =	6761	psf	
Soli Resistance (R _{soll}) =	73.0	kips	
Guy Anchor Uplift Case:			
•	1	overthat the total	
$\phi U = \phi \left(\mu_{\nu} \cdot \max \left(V - \mu_{h} \cdot N_{comp}, 0 \right) + W_{conc} \right)$	rete + ma	$ax(v_{soil}, v_{dir} + r_{sf})$	
Uplift Resistance (ΦU) =	33,9	kips	
# 4 - 1e	0.00		OK
Unity ≃ Guy Anchor Slippage Case:	0,69		<u>ok</u>

Referred on: 03/06/23

 $\phi V = \phi (R_{soil} + \mu_h \cdot N_{comp})$

Shear Resistance (ΦV) = 54.8 kips

Unity = 0,48

File Number: 177-O-108

<u>ok</u>

Guy Wire Tensions

Project Name - LANNON (784320) Menomonee Falls, Wisconsin Edge #30472

1	Eď	96	3
Consult	ting Eng	jineers	, Inc.

Completed By:	TAC	
Checked By:	ССК	

Guy Wire Tensions

The given tension values are for the C anchor*. The tensions should be maintained as close as possible for these guys, while the remaining guys are used to plumb the tower. Check tension in all guy wires and adjust as appropriate.

*For tower orientation refer to Figure 1: Feedline Placement Diagram.

	Guy Elevation	Anchor	Approx. Radius	Approx. Elev Change	Guy Size	-	Tension	at Temp	erature	of Tensi	oning, Ib	s.
ĺ	(ft)	Location	(ft)	(ft)	Guy Size	0°F	20°F	40°F	60°F	80°F	100°F	120° F
ſ	179.8	С	150	189	9/16 EHS	4072	3880	3689	3500	3313	3128	2947
ĺ	119,8	С	150	129	7/16 EHS	2591	2419	2248	2080	1914	1753	1596
	69.4	С	150	78	3/8 EHS	2027	1863	1701	1540	1382	1229	1081

FIRST AMENDMENT TO LEASE WITH CCATT LLC AT
UW-MILWAUKEE WAUKESHA CAMPUS

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1 2

- WHEREAS, the County and CCATT LLC'S predecessor in interest TeleCorp Realty, LLC ("Original Lessee") entered into a Lease Agreement dated on or about November 18, 2002 ("Lease"), a memorandum of which was recorded on January 13, 2003 as Instrument #2909174 in the official public records of Waukesha County, Wisconsin, whereby Original Lessee leased a portion of the County's Property located at 1500 North University Drive, Waukesha, WI, together with access and utility easements, for the construction, operation and maintenance of
- together with access and utility easements, for the construction, operation and maintenance of
 flagpole cell tower and related equipment; and

12 13

WHEREAS, the County and CCATT LLC ("Lessee") as successor in interest to Original Lessee desire to amend the Lease on the terms and conditions contained herein; and

14 15

- WHEREAS, effective as of November 18, 2022, the term of the Lease shall be for two (2) additional terms of one (1) year each (each a "Renewal Term"), which shall be automatically renewed so long as Lessee is not then in default under the Lease unless Lessee provides written notice to County of Lessee's intent not to renew within at least thirty (30) days before the expiration of the first Renewal Term. If all Renewal Terms are renewed the final expiration date of the Lease shall be November 17, 2024.
- 22 THE COUNTY BOARD OF SUPERVISORS OF THE COUNTY OF WAUKESHA ORDAINS
- 23 that the First Amendment to Lease between the County and CCATT LLC for use of the flagpole
- cell tower and surrounding lands at the UW-Milwaukee Waukesha campus is hereby approved.
- 25 BE IT FURTHER ORDAINED that the Director of Emergency Preparedness or his designee
- 26 is authorized to execute the First Amendment to Lease and any other documents necessary
- 27 to effectuate the intent thereof.

FISCAL NOTE FIRST AMENDMENT TO LEASE WITH CCATT LLC AT UW-MILWAUKEE WAUKESHA CAMPUS

This ordinance authorizes the extension of an existing agreement with CCATT LLC to lease county land for two years, from November 18, 2022, through November 17, 2024. Under the extension, CCATT LLC will pay the county \$46,580 in rental charges from November 18, 2022 through November 17, 2023, and \$48,443 (4% increase) from November 18, 2023 through November 17, 2024. These additional funds will be accounted for in the Emergency Preparedness – Radio Services Fund, along with other cell tower lease revenues, for future Radio Services projects and expenses.

William Duckwitz Budget manager

William Dudnity

3/6/2023

FIRST AMENDMENT TO LEASE

THIS FIRST AMENDMENT TO LEASE (the "First Amendment") is made effective as of October 31, 2022 ("Effective Date"), by and between Waukesha County, Wisconsin, a quasimunicipal corporation, having an address at 515 W. Moreland Blvd., Waukesha, Wisconsin 53188 (hereinafter referred to as "County") and CCATT LLC, a Delaware limited liability company, as successor to TeleCorp Realty, LLC, having an address at Attn: Legal Real Estate Department, 2000 Corporate Drive, Canonsburg, PA 15317 (hereinafter referred to as "Lessee").

RECITALS

WHEREAS, the County and Lessee entered into Lease Agreement dated on or about November 18, 2002 ("Lease"), a memorandum of which was recorded on January 13, 2003 as Instrument #2909174 in the official public records of Waukesha County, Wisconsin, whereby Lessee leased the Site on the County's Property located at 1500 North University Drive, Waukesha, WI, together with access and utility easements, for the construction, operation and maintenance of Communications Facilities; and

WHEREAS, the term of the Lease is twenty (20) years (initial term of five (5) years plus three (3) additional five (5) year extensions commencing on the Commencement Date; and

WHEREAS, County and Lessee desire to amend the Lease on the terms and conditions contained herein.

NOW THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are acknowledged, the County and Lessee agree as follows:

- 1. <u>Recitals; Defined Terms</u>. The parties acknowledge the accuracy of the foregoing recitals. Any capitalized terms not defined herein shall have the meanings ascribed to them in the Lease.
- 2. <u>Acknowledgement</u>. The parties acknowledge that as of the Effective Date, the Lease is and was in full effect, and the parties as of the execution of this First Amendment acknowledge and reaffirm that the Lease and its terms remain in full force, each party being bound to its obligations thereunder.
- 3. <u>Term.</u> Effective as of November 18, 2022, the term of the Lease shall be for two (2) additional terms of one (1) year each (each a "Renewal Term"), which shall be automatically renewed so long as Lessee is not then in default under the Lease unless Lessee provides written notice to County of Lessee's intent not to renew within at least thirty (30) days before the expiration of the first Renewal Term. If all Renewal Terms are renewed the final expiration date of the Lease shall be November 17, 2024.
- 4. Rent. Notwithstanding anything to the contrary in Section 3 of the Lease, effective as of November 18, 2022, the annual rent payable to the County shall increase by four percent (4%) of the current annual rent. At the commencement of the second Renewal Term, the annual rent payable to the County shall increase by four percent (4%) of the then current annual rent.

- 5. <u>Counterparts</u>. This First Amendment may be executed in separate and multiple counterparts, each of which shall be deemed an original but all of which taken together shall be deemed to constitute one and the same instrument.
- 6. <u>Notices</u>. The notice addresses as stated in Section 20 of the Lease are amended as follows:

If to County:

Waukesha County, Wisconsin 515 W. Moreland Blvd. Waukesha, Wisconsin 53188 If to Lessee:

CCATT LLC

Attn: Legal Real Estate Department 2000 Corporate Drive Canonsburg, Pennsylvania 15317

7. <u>Remainder of Lease Unaffected</u>. In all other respects, the remainder of the Lease shall remain in full force and effect. Any portion of the Lease that is inconsistent with this First Amendment is hereby amended to be consistent.

[Signature pages follow]

The County and Lessee have caused this First Amendment to be duly executed on the day and year first written above.

COUNTY:

WAUKESHA COUNTY, WISCONSIN a quasi-municipal corporation

By:	
Print Name:	 711
Title:	

[Lessee Execution Page Follows]

This First Amendment is executed by Lessee as o	of the date first written above.
	LESSEE: CCATT LLC, a Delaware limited liability company
	By:
	Print Name:
	Title:

CONSENT OF UNIVERSITY

UW-Milwaukee Waukesha County hereby consents to the above First Amendment to Lease.

UW-MILWAUKEE WAUKESHA COUNTY

By:	
Print Name:	
Title:	 _

1 2 3 4	APPROVE SETTLEMENT AGREEMENTS WITH CERTAIN OPIOID PHARMACIES AND PHARMACEUTICAL COMPANIES AND APPROVE WISCONSIN STATE-LOCAL ALLOCATION MOU
5 6 7 8 9	WHEREAS, in February 2018 the Waukesha County Board adopted Enrolled Resolution 172-004 authorizing the Waukesha County Corporation Counsel to, at his discretion, select outside counsel and commence a lawsuit on behalf of the County, against any pharmaceutical company, wholesale distributor, manufacturer and/or other entity or individual that engaged in practices that contributed to the opioid epidemic within Waukesha County; and
11 12 13 14 15	WHEREAS, national and local counsel was retained and a lawsuit was filed on behalf of the County against certain manufactures, distributors, and retailers of opioid pharmaceuticals (the "Opioid Defendants") in an effort to hold the Opioid Defendants financially responsible for the County's expenditure of money and resources to combat the opioid epidemic; and
16 17 18 19	WHEREAS, similar lawsuits were filed by seventy other counties in Wisconsin as well as thousands of various other units of government across the state and country and were coordinated in multidistrict litigation in the Northern District of Ohio captioned <i>In re: Opioid Litigation</i> , MDL 2804 (the "Litigation"); and
20 21 22 23 24	WHEREAS, settlement discussions with Walgreens, Walmart, CVS, Teva and Allergan (the "Settling Defendants") have resulted in tentative agreements as to settlement terms ("Settlement Agreements") pending agreement from the County and other plaintiffs involved in the Litigation; and
25 26 27 28 29 30	WHEREAS, copies of the Settlement Agreements with the Settling Defendants representing the terms of the tentative settlement agreements with the Settling Defendants are publicly available at https://nationalopioidsettlement.com and have been discussed with the Board in closed session; and
31 32 33 34	WHEREAS, the Settlement Agreements provide, among other things, for the payment of certain sums to Participating Subdivisions (as defined in the Settlement Agreements) upon the occurrence of certain events detailed in the Settlement Agreements; and
35 36 37 38 39 40 41 42	WHEREAS, in order to become a Participating Subdivision and participate in the benefits of the Settlement Agreements it is necessary that the County (a) approves the Settlement Agreements and (b) approves the memorandum of understanding allocating proceeds from the Settlement Agreements among the various Wisconsin Participating Subdivisions and the State of Wisconsin (the "Wisconsin State-Local Allocation MOU"); and that the Legislature's Joint Committee on Finance approves the terms of the Settlement Agreements and the Wisconsin State-Local Allocation MOU; and
43 44 45 46	WHEREAS, a current draft of the Wisconsin State-Local Allocation MOU is on file in the Corporation Counsel's office pending approval by the County Board and has been shared with the Board in closed session.

47	THE COUNTY BOARD OF SUPERVISORS OF THE COUNTY OF WAUKESHA ORDAINS
48	that the Settlement Agreements with Walgreens, Walmart, CVS, Teva and Allergan
49	(collectively, the "Settlement Agreements") are in all respects hereby approved.
50	
51	BE IT FURTHER ORDAINED that Corporation Counsel or his designee is hereby authorized to
52	take all actions necessary to participate in the Settlement Agreements and to finalize and
53	implement the Wisconsin State-Local Allocation MOU with respect to the allocation of
54	settlement proceeds among the Wisconsin litigating local government entities and the State of
55	Wisconsin in substantially the same form as on file with the Corporation Counsel and shared
56	with the Board, including the further negotiation and execution of an escrow agreement for
57	receipt and disbursement of the proceeds of the Settlement Agreements or any other documents
58	necessary to implement the Settlement Agreements.
59	
60	BE IT FURTHER ORDAINED that all proceeds from the Settlement Agreements shall be
61	deposited in the account previously established for the proceeds from prior settlements in the
62	Litigation and administered and disbursed in a manner consistent with Wis. Stat. § 165.12(4), the
63	Settlement Agreements and this Ordinance.

File Number: 177-O-110

Referred to: CB

47

Referred on: 03/06/23