

Yankton County Planning Commission
Yankton County Board of Adjustment

Applicant

Crown Castle – Conditional Use Permit

7/20/2022

District type: AG R1-Low R2-Moderate R3-High C-Comm.

LC – Lakeside Commercial RT-Rural Transitional

CUP needed:

Section 507 Section 607 Section 707 Section 807

Section 1805 Section 1905 Section 2503

NOTE:

Conditional Use Permit

Applicant is requesting a Conditional Use Permit to add additional antennas to an existing tower per Article 25 section 2503. Said property is legally described as the Northwest Quarter (NW1/4) of Section Thirty-two (32), Township Ninety-four (94) North, Range Fifty-seven (57) West of the 5th P.M., Yankton County, South Dakota.

PC: Article 18 Section 1805

BOA: Article 19 Section 1905

Planning Commission date:
8/9/2022

Board of Adjustment date:
9/6/2022

Time:
7:10
PM
Time:

Permit Number: CUP-2022-82

Yankton County

 Variance X Conditional Use Rezoning

Owner: Christina Wilburn on behalf of Crown Castle (Tower Owner) agent for T-

Owners Address: 3025 Highland Pkwy, Suite 400 - Downers Grove, IL 60515

Owners Phone: 773-628-4388
Applicants Name,
if different from

Owner: Christina Wilburn on behalf of Crown Castle (Tower Owner) agent for T-

Applicants

Address: 3025 Highland Pkwy, Suite 400 - Downers Grove, IL 60515

Job Address: 42943 308TH STREET

Legal: NW4

Section,
Township, Range: 32-94-57

Zoning
Classification: AG

Affected Zoning
Ordinance: 25032503


Reason for
Request: Adding Additional Antenna's to Existing Cell Tower

List Specific
Hardships: _____

SCHEDULED FOR PLANNING COMMISSION ACTION (DATE): 08/09/2022 7:10

SCHEDULED FOR BOARD OF ADJUSTMENT ACTION (DATE): 09/06/2022 6:30

Application Fee: \$300.00 Check #: 194812994 Receipt #: _____

Signature:  Date: 07/20/2022
Christina Wilburn on behalf

Site Map

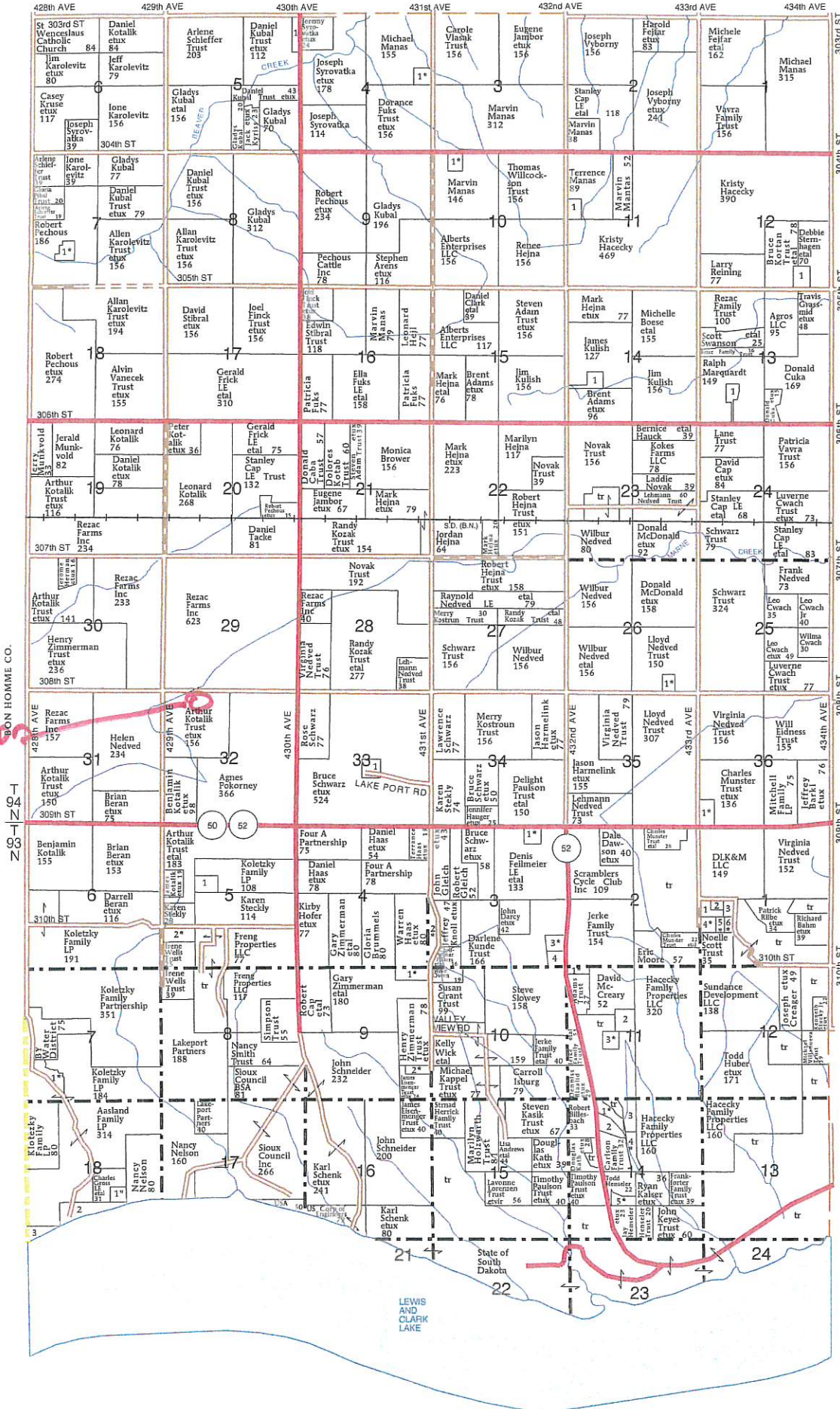


Parcel Number: 14.032.400.100

Site Description:

(Landowners)

LESTERVILLE TWP.



**ZISKOV TOWNSHIP
SECTION 13**

1. Barth, Chad 9
2. Fischer, Katrina 5
3. Gause, Janell 5
4. Taylor, Lynn etux 9
5. Scott, Bjaye etux 5
6. Kramer, Francis etal 5

SECTION 35

1. Ausdemore, Robert etal 9
2. Haas, Warren etux 10
3. Mueller, James etux 8
4. Kunde, Darlene 8

SECTION 4N

1. Hoffman, RC etux 10

SECTION 5N

1. Polish Catholic Congregation 9

SECTION 5S

1. Willis, Carol 11
2. Sedlacek, Kenneth etux 12

SECTION 7N

1. Pechous, Robert etux 10

SECTION 7S

1. Koletzky, Ione etal 17

SECTION 8S

1. Jungemann, Jerry etux 15
2. Wrostel, Eldon etux 15

SECTION 10N

1. Manas, Terence etux 10

SECTION 11N

1. Cap, Daniel 11

SECTION 11S

1. Haberman, Adam etux 10
2. Konopasek Family Trust 10

SECTION 12N

1. Hejna, Marilyn 9

SECTION 13N

1. Manas, Dylan 6

SECTION 14N

1. Sudbeck, Charlene 12
2. Peterson, Corey etal 9
3. Feimer Family Protection Trust 9
4. Colby, David 13
5. Henseler, Kevin etux 9

SECTION 18S

1. Lynch, Daniel etux 9
2. State of South Dakota Game Fish & Parks 66
3. Yonke Trust, Mark 5

SECTION 26

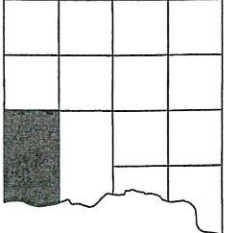
1. Martin, Nathan etux 6

SECTION 33

1. St Wenceslaus Roman Catholic Church 10

SECTION 36

1. Koletzky, David etux 8



FINDINGS OF FACT – CONDITIONAL USE PERMIT

Crown Castle – CUP-2022-82

Are the requirements of Section 1723 met? (signed by owner unless there is a binding purchase agreement then signed by applicant, Variance accompanied by building permit (if applicable), site plan included with building permit,	Yes
Are the requirements of Section 1729 met? (all fees paid at time of application)	Yes
Section 1805:	
1. Did you specifically cite, in the application, the section of the Ordinance under which the conditional use is sought and state the grounds on which it is requested	Applicant is requesting a Conditional Use Permit to add additional antennas to an existing tower per Article 25 section 2503.
2. Was notice of public hearing given per Section 1803 (3-5)?	Mailed – 7/28/2022 Published – 7/29, 8/5/2022
3. Attend the public hearing	Yes via ZOOM
4. Planning Commission: Make a recommendation to include: a. Granting of conditional use; b. Granting with conditions; or c. Denial of conditional use	Grant Conditional Use Passed 7-0
5. Planning Commission must make written findings certifying compliance with specific rules including: a. Ingress and Egress to proposed structures thereon with particular reference to automotive and pedestrian safety and convenience, traffic flow and control, and access in case of fire or catastrophe:	Ingress/Egress exists
b. Off right-of-way parking and loading areas where required; with particular attention to the items in (A) above and the economic, noise, glare or odor effects of the conditional use on adjoining properties and properties generally in the district;	None required
c. Refuse and service areas, with particular reference to the items in (A) and (B) above;	None required
d. Utilities, with reference to locations, availability, and compatibility;	Utilities present
e. Screening and buffering with reference to type, dimensions, and character;	None required
f. Signs, if any, and proposed exterior lighting with reference to glare, traffic safety, economic effect;	None required
g. Required yards and other open spaces; and	Required yards present
h. General compatibility with adjacent properties and other property in the district and that the granting of the conditional use will not adversely affect the public interest.	Is in general compatibility with adjacent properties and will not adversely affect public interest

MEETING (ENTITY): PLANNING COMMISSION REGULAR OR SPECIAL MEETING: Regular
DATE: 8/9/2022 TIME: 7PM LOCATION: COMMISSION CHAMBERS

STAFF ATTENDANCE: Conkling

ROLL BARKL EVANS KETTERING MICHAEL NELSON WEISS HOFFMAN

CALL:

APPROVAL OF MINUTES: MOTION BY: Nelson SECOND BY: Evans

PLANNING: BARKL EVANS KETTERING MICHAEL NELSON WEISS HOFFMAN

APPROVAL OF AGENDA: MOTION BY: Hoffman SECOND BY: Evans

PLANNING: BARKL EVANS KETTERING MICHAEL NELSON WEISS HOFFMAN

AGENDA ITEM: **East River Electric - Rezone**

ADDRESS/LEGAL: Applicant is requesting to Rezone two parcels from Rural Transitional (RT) and Low Density Residential (LD) to Moderate Density Residential (MD) per Article 18 Section 1809 and Article 20 Section 2003. Said property is legally described as Lots 1 and 2 of Lewis and Clark Substation Addition in the Southwest Quarter of the Southwest Quarter of Section 15 and in the Northwest Quarter of the Northwest Quarter of Section 22, Township 93 North, Range 56 West of the 5th Principal Meridian, Yankton County, South Dakota. Containing 3.00 Acres more or less

COMMENTS: Steve Auerbach – East River Electric Ken Carda – BY Electric
Wade Lippert – neighbor, Greg Henderson – neighbor, Tim Kellen – resident ,Nick Weydert, Chelsea Haas

MOTION: **Table until the next meeting to get clarification from State’s attorney as to whether conditions can be placed on a rezone**
Passed 7-0

APPROVAL: MOTION BY: Barkl SECOND BY: Kettering

PLANNING: BARKL EVANS KETTERING MICHAEL NELSON WEISS HOFFMAN

AGENDA ITEM: **Crown Castle – Conditional Use Permit**

ADDRESS/LEGAL: Applicant is requesting a Conditional Use Permit to add additional antennas to an existing tower per Article 25 Section 2503. Said property is legally described as the Northwest Quarter (NW1/4) of Section Thirty-two (32), Township Ninety-four (94) North, Range Fifty-seven (57) West of the 5th P.M., Yankton County, South Dakota.

COMMENTS: Christina Wilburn - Applicant

MOTION: **Approve as presented**
Passed 7-0

APPROVAL: MOTION BY: Evans SECOND BY: Kettering
PLANNING: BARKL EVANS KETTERING MICHAEL NELSON WEISS HOFFMAN

AGENDA ITEM: **East River Electric - Plat**
ADDRESS/LEGAL: Lots 1 and 2 of Lewis and Clark Substation Addition in the Southwest Quarter of the Southwest Quarter of Section 15 and in the Northwest Quarter of the Northwest Quarter of Section 22, Township 93 North, Range 56 West of the 5th Principal Meridian, Yankton County, South Dakota. Containing 3.00 Acres more or less

COMMENTS: None

MOTION: **Table until next meeting**
Passed 7-0

APPROVAL: MOTION BY: Michael SECOND BY: Evans
PLANNING: BARKL EVANS KETTERING MICHAEL NELSON WEISS HOFFMAN

AGENDA ITEM: **Hamberger - Plat**
ADDRESS/LEGAL: Plat of Hamberger's Addition, in the NE1/4 of section 22, T95N, R57W of the 5th P.M., Yankton County, South Dakota – Lesterville Township

COMMENTS: None

MOTION: **Approve as presented**
Passed 7-0

APPROVAL: MOTION BY: Michael SECOND BY: Evans
PLANNING: BARKL EVANS KETTERING MICHAEL NELSON WEISS HOFFMAN

AGENDA ITEM: **Oliver - Plat**
ADDRESS/LEGAL: Plat of Lots 14 and 15, Block 3, Law overlook Subdivision, in the NE1/4 of Section 18, T93N, R56W of the 5th P.M., Yankton County, South Dakota

COMMENTS: None

MOTION: **Approve as presented**
Passed 7-0

APPROVAL: MOTION BY: Michael SECOND BY: Kettering
PLANNING: BARKL EVANS KETTERING MICHAEL NELSON WEISS HOFFMAN

AGENDA ITEM: **Public Comment**
ADDRESS/LEGAL: _____
COMMENTS: Stephanie Horst – BY Electric

MOTION: **Adjourn**
Passed 7-0

APPROVAL: MOTION BY: Hoffman SECOND BY: Evans
PLANNING: BARKL EVANS KETTERING MICHAEL NELSON WEISS HOFFMAN

AGENDA ITEM: _____
ADDRESS/LEGAL: _____
COMMENTS: _____

MOTION: _____

APPROVAL: MOTION BY: _____ SECOND BY: _____
PLANNING: BARKL EVANS KETTERING MICHAEL NELSON WEISS HOFFMAN

AGENDA ITEM: _____
ADDRESS/LEGAL: _____
COMMENTS: _____

MOTION: _____

APPROVAL: MOTION BY: _____ SECOND BY: _____
PLANNING: BARKL EVANS KETTERING MICHAEL NELSON WEISS HOFFMAN

AGENDA ITEM: _____
ADDRESS/LEGAL: _____
COMMENTS: _____

MOTION: _____

APPROVAL: MOTION BY: _____ SECOND BY: _____
PLANNING: BARKL EVANS KETTERING MICHAEL NELSON WEISS HOFFMAN

AGENDA ITEM: _____
ADDRESS/LEGAL: _____
COMMENTS: _____

MOTION: _____

APPROVAL: MOTION BY: _____ SECOND BY: _____
PLANNING: BARKL EVANS KETTERING MICHAEL NELSON WEISS HOFFMAN

AGENDA ITEM: _____
ADDRESS/LEGAL: _____
COMMENTS: _____

MOTION: _____

APPROVAL: MOTION BY: _____ SECOND BY: _____
PLANNING: BARKL EVANS KETTERING MICHAEL NELSON WEISS HOFFMAN

AGENDA ITEM: _____
ADDRESS/LEGAL: _____
COMMENTS: _____

MOTION:

APPROVAL: MOTION BY: _____ SECOND BY: _____
PLANNING: BARKL EVANS KETTERING MICHAEL NELSON WEISS HOFFMAN

Variance, Conditional Use and Rezoning Application CUP-2022-82
 Applicant Christina Wilburn
 Fees Paid \$300.00
 Created July 20, 2022

Number CUP-2022-82

14.032.400.100 | Christina Wilburn on behalf of Crown Castle (Tower Owner) agent for T-Mobile | 42943 308TH STREET, Tabor, SD, 57063
 Submitted by Crowncastlepermitting on 7/20/2022



Applicant

Christina Wilburn

7736284388

christina.wilburn@crowncastle.com

Parcel search Completed On 7/20/2022 1:09 PM EST by Crowncastlepermitting



Maxar Powered by Esri

ParcelID	Address	City	OwnerName	Acres
14.032.400.100			KOTALIK, ARTHUR J REV TRUST (D) KOTALIK, GERALDINE A REV TRUST (D)	156.000

Request Information Completed On 7/20/2022 1:13 PM EST by Crowncastlepermitting

Type of Request

Conditional Use

Fee

\$300.00

Reason for Request

Adding Additional Antenna's to Existing Cell Tower

List Specific Hardships

Applicant Information

Are you the owner of the property?

Yes

Applicant Name

Christina Wilburn on behalf of Crown Castle (Tower Owner) agent for T-Mobile

Applicant Address

3025 Highland Pkwy, Suite 400 - Downers Grove, IL 60515

Applicant Phone

773-628-4388

Owner Information

Owner Name

Christina Wilburn on behalf of Crown Castle (Tower Owner) agent for T-Mobile

Owner Address

3025 Highland Pkwy, Suite 400 - Downers Grove, IL 60515

Owner Phone Number

773-628-4388

Property Information

Parcel ID Number

14.032.400.100

Legal Description

NW4

Site Address

42943 308TH STREET

City

Tabor

Zip
57063

Section-Township-Range
32-94-57

Zoning District
AG

Zoning Description
AG

Existing Use of Property
Telecommunication Tower

Site Plan Completed On 7/20/2022 1:13 PM EST by Crowncastlepermitting

Map - Mark the location of structures and other necessary information.

- Sketch Layer
- Reference Layer
- Mapproxy



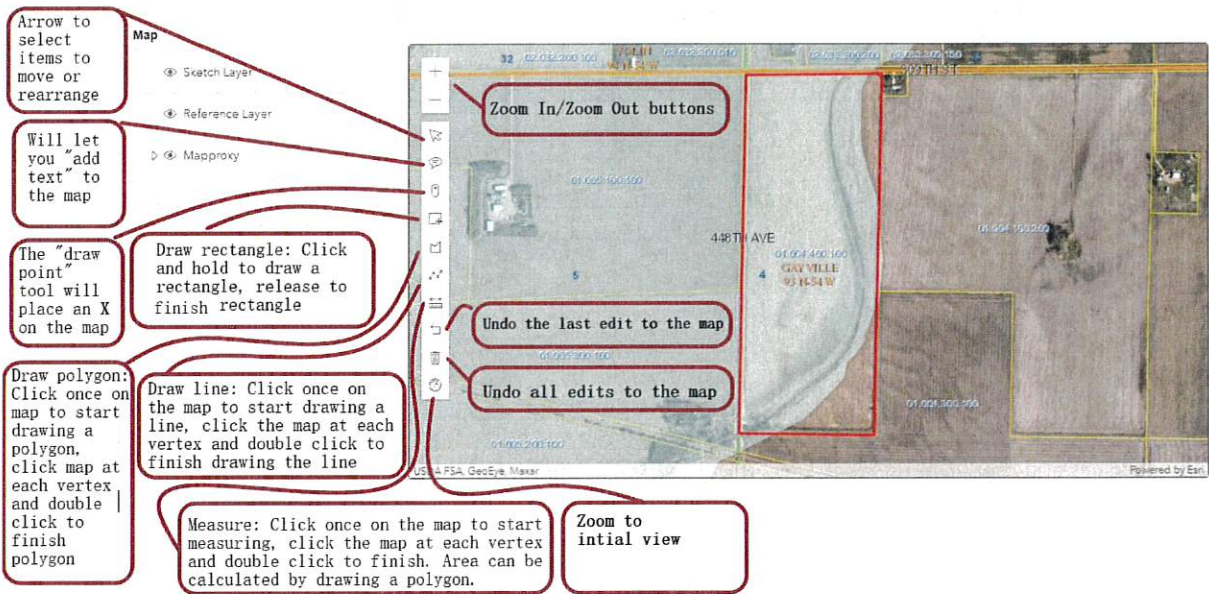
Maxar

Powered by Esri

Describe the location and use of adjacent structures

Upload Site Plan and/or additional plans and documents

[857981_603055_Construction Drawing.pdf](#)



Draft Building Permit Completed On 7/20/2022 1:14 PM EST by Crowncastlepermitting

Upload Draft Building Permit

Draft Building Permit Form Completed On 7/20/2022 1:16 PM EST by Crowncastlepermitting

Job Address

42943 308TH STREET, Tabor, SD 57063

Legal Description of Construction Site

NW4

Owner Name

KOTALIK, ARTHUR J REV TRUST (D) || KOTALIK, GERALDINE A REV TRUST (D)

Owner Address

Owner Phone

Contractor

Contractor Mailing Address

Contractor Phone

Architect or Designer

Architect or Designer Mailing Address

Architect or Designer Phone

Type and Use of Building

Class of Work

Describe Work

Valuation of Work

\$

Generate Draft Building Permit Completed On 7/20/2022 1:16 PM EST by Crowncastlepermitting

[Generate Draft Building Permit](#)

Submit Completed On 7/20/2022 1:16 PM EST by Crowncastlepermitting

A notification sign shall be posted on the property upon which action is pending at least seven (7) days prior to the hearing date. Such signs shall be placed along all the property's road frontage so as to be visible from the road. If a property does not have a road frontage, then such signs shall be placed upon the closest available right-of-way and upon the property. Said signs shall not be less than one hundred and eighty seven (187) square inches in size. It shall be unlawful for any person to remove, mutilate, destroy or change such posted notice prior to such hearings.

Please pick the sign up from the zoning office on or before eight (8) days prior to the meeting.

Applicant Agreement

Please check the box to confirm you have read and agree to the notices above.

Signature



Date

7/20/2022

Application Submitted Successfully Completed On 7/20/2022 1:17 PM EST by Crowncastlepermitting

Your application has been submitted for review. Thank you.

Please click next at the bottom to continue. Thank you

Continue with application

Continue

Describe what the applicant is requesting

Planning Commission Code Reference

Other Planning Commission Code Reference ⓘ

2503

Board of Adjustment Code Reference

Other Board of Adjustment Code Reference ⓘ

2503

Please confirm the zoning provided by the applicant. If zoning is incorrect, please enter the correct zoning. It is this field that is printed on the final form to avoid applicant/system error. The correct zoning must be entered.

Zoning Classification ⓘ

AG

Wave Fee

Notes ⓘ

Director Review Completed On 7/20/2022 1:43 PM EST by gvetter

Zoning Director Review

Approve

PC Prep Completed On 7/20/2022 2:32 PM EST by bconkling

Planning Commission Meeting

Planning Commission Meeting Date and Time

August 9th 2022, 7:10 pm CDT

Letters to be mailed 10 days prior to the public meeting:

07/30/2022 7:10 PM

Additional instructions for PC email

Return the affidavit 8 days prior to the public meeting:

08/01/2022 7:10 PM

Place your zoning action sign 7 days prior to the public meeting:

08/02/2022 7:10 PM

Date to send email to applicant

07/25/2022

Upload PC Mailing Labels

[YanktonCountySD-20220720-b6addb202e8545689c360c4268e69deb.pdf](#)

Upload PC Affidavit of Mailing

[2 Mailing Affidavit 2640.pdf](#)

Upload PC Notification Letter

[CUP NOT Letter.pdf](#)

Upload PC Newspaper Publication

[Legals 8-9-2022.pdf](#)

Permit Number

CUP-2022-82

Receipt Number

PC App Form Completed On 7/20/2022 2:32 PM EST by bconkling

[PC App Form](#)

Payment Completed On 7/20/2022 2:32 PM EST by bconkling

Fees Paid

[VIEW RECEIPT](#)

Fee Name	Recipient	Amount
Fee	Planning and Zoning	\$300.00

Confirmation Data

Payment Method

Online

Confirmation Number

194812994

Amount Paid

\$300.00

External Notes

Documents

Internal Notes

Documents



3025 Highland Pkwy, ySte 400
Downers Grove, IL 60515

Phone: (773) 628-4388
www.crowncastle.com

June 9, 2022

SD - YANKTON COUNTY

Planning & Zoning

Bill Conkling, Deputy Zoning Administrator

321 WEST 3RD STREET, SUITE 100

YANKTON, SD 57078

Via Electronic

*****NOTICE OF ELIGIBLE FACILITIES REQUEST*****

RE: Request for Minor Modification to Existing Wireless Facility – Section 6409

Site Address: 42943 308TH STREET, TABOR, SD 57063

Crown Site Number: 857981 / Crown Site Name: ZOD_ALLTEL_SD09_TABOR

Customer Site Number: DM03842A / Application Number: 603055

Dear Bill Conkling, Deputy Zoning Administrator:

On behalf of T-Mobile Central LLC (“T-Mobile” or “Applicant”), Crown Castle USA Inc. (“Crown Castle”) is pleased to submit this request to modify the existing wireless facility noted above through the collocation, replacement and/or removal of the Applicant’s equipment as an eligible facilities request for a minor modification under Section 6409¹ and the rules of the Federal Communications Commission (“FCC”).²

Section 6409 mandates that state and local governments must approve any eligible facilities request for the modification of an existing wireless tower or base station that does not substantially change the physical dimensions of such tower or base station. Under Section 6409, to toll the review period, if the reviewing authority determines that the application is incomplete, it must provide written notice to the applicant within 30 days, which clearly and specifically delineates all missing documents or information reasonably related to whether the request meets the federal requirements.³ Additionally, if a state or local government, fails to issue any approvals required for this request within 60 days, these approvals are deemed granted. The FCC has clarified that the 30-day and 60-day deadlines begins when an applicant: (1) takes the first step required under state or local law; and (2) submits information sufficient to inform the jurisdiction that this modification qualifies under the federal law⁴. Please note that with the submission of this letter and enclosed items, the thirty and sixty-day review periods have started. Based on this filing, the deadline for written notice of incomplete application is July 9, 2022, and the deadline for issuance of approval is August 8, 2022.

The proposed scope of work for this project includes:

¹ Middle Class Tax Relief and Job Creation Act of 2012, Pub. L. No. 112-96, § 6409 (2012) (codified at 47 U.S.C. § 1455).

² *Acceleration of Broadband Deployment by Improving Wireless Facility Siting Policies*, 29 FCC Rcd. 12865 (2014) (codified at 47 CFR § 1.6100); and *Implementation of State & Local Governments’ Obligation to Approve Certain Wireless Facility Modification Requests Under Section 6409(a) of the Spectrum Act of 2012*, WT Docket No. 19-250 (June 10, 2020).

³ See 47 CFR § 1.6100 (c)(3). ⁴ See 2020 Upgrade Order at paragraph 16.

The Foundation for a Wireless World

CrownCastle.com



3025 Highland Pkwy, ySte 400
Downers Grove, IL 60515

Phone: (773) 628-4388
www.crowncastle.com

Add or replace antennas and ancillary equipment as per plans for an existing carrier on an existing wireless communication facility.

At the end of this letter is a checklist of the applicable substantial change criteria under Section 6409. Additionally, please find enclosed the following information in support of this request:

- (1) Concurrent Zoning and Building Permit Application;
- (2) Construction Drawings;
- (3) Structural Analysis; and
- (4) Section 6409 Substantial Change Checklist.

As these documents indicate, (i) the modification involves the collocation, removal or replacement of transmission equipment; and (ii) such modification will not substantially change the physical dimensions of such tower or base station. As such, it is an “eligible facilities request” as defined in the FCC’s rules to which the 60-day deadline for approval applies. Accordingly, Applicant requests all authorization necessary for this proposed minor modification under Section 6409.

Our goal is to work with you to obtain approvals earlier than the deadline. We will respond promptly to any request for related information you may have in connection with this request. Please let us know how we can work with you to expedite the approval process. We look forward to working with you on this important project, which will improve wireless telecommunication services in your community using collocation on existing infrastructure. If you have any questions, please do not hesitate to contact me.

Regards,

Christina Wilburn

Christina Wilburn
Site Acquisition Specialist
Crown Castle
Agent for Applicant
(773) 628-4388
Christina.Wilburn@crowncastle.com



3025 Highland Pkwy, ySte 400
Downers Grove, IL 60515

Phone: (773) 628-4388
www.crowncastle.com

**Section 6409 Substantial Change Checklist
Towers Outside of the Public Right of Way**

The Federal Communications Commission has determined that a modification substantially changes the physical dimension of a wireless tower or base station under 47 U.S.C. § 1455(a) if it meets one of six enumerated criteria under 47 C.F.R. § 1.6100.

Criteria for Towers Outside the Public Rights of Way

YES/NO NO	Does the modification increase the height of the tower by more than the greater of: (a) 10% (b) or, the height of an additional antenna array plus separation of up to 20 feet from the top of the nearest existing antenna?
YES/NO NO	Does the modification add an appurtenance to the body of the tower that would protrude from the edge of the tower more than 20 feet or more than the width of the tower structure at the level of the appurtenance, whichever is greater?
YES/NO NO	Does the modification involve the installation of more than the standard number of new equipment cabinets for the technology involved or add more than four new equipment cabinets?
YES/NO NO	Does the modification entail any excavation or deployment outside the current site by more than 30 feet in any direction, not including any access or utility easements?
YES/NO NO	Does the modification defeat the concealment elements of the eligible support structure?
YES/NO NO	Does the modification violate conditions associated with the siting approval with the prior approval the tower or base station other than as specified in 47 C.F.R. § 1.6100(c)(7)(i) – (iv)?

If all questions in the above section are answered “NO,” then the modification does not constitute a substantial change to the existing tower under 47 C.F.R. § 1.6100.



3025 Highland Pkwy, ySte 400
Downers Grove, IL 60515

Phone: (773) 628-4388
www.crowncastle.com

June 9, 2022

T-Mobile
12920 SE 38th Street
Bellevue, WA 98006

Attn: MacKenzie Keys
Email: cr.crown@t-mobile.com

Zoning & Permitting Confirmation Request – Existing Cell Tower

On behalf of T-Mobile we are requesting confirmation of the zoning and permitting requirements for an upcoming project.

There will be no substantial change to the tower’s height, or to the size of the lease compound. We kindly ask for the SD - YANKTON COUNTY’s confirmation of zoning and building permit requirements in the boxes provided below.

CUSTOMER SITE NUMBER: DM03842A

CROWN SITE NAME/NUMBER: ZOD_ALLTEL_SD09_TABOR / 857981

CROWN APPLICATION NUMBER: 603055

SITE ADDRESS: 42943 308TH STREET TABOR, SD 57063

PROPOSED SCOPE OF WORK: Add or replace antennas and ancillary equipment as per plans for an existing carrier on an existing wireless communication facility.

ZONING JURISDICTION: SD - YANKTON COUNTY

CONTACT NAME / AGENCY / PHONE: Bill Conkling, Deputy Zoning Administrator / Planning & Zoning / 605-260-4447

PERMITTING JURISDICTION: SD - YANKTON COUNTY

CONTACT NAME / AGENCY / PHONE: Bill Conkling, Deputy Zoning Administrator / Planning & Zoning / 605.260.4447

SIGNATURE: _____

DATE: _____

Does proposed scope of work require a Zoning Review/Approval ?	YES	NO
Does proposed scope of work require a Building Permit ?	YES	NO
Does proposed scope of work require an Electrical Permit ?	YES	NO
Does proposed scope of work require a Generator or Fuel Tank Permit ?	YES	NO

COMMENTS: _____

The Foundation for a Wireless World.
CrownCastle.com



3025 Highland Pkwy, ySte 400
Downers Grove, IL 60515

Phone: (773) 628-4388
www.crowncastle.com

Upon completion of your review, please email this signed letter to me, or if you prefer to fax it, my fax number is . Please feel free to contact me at (773) 628-4388 or Christina.Wilburn@crowncastle.com with any questions or concerns.

Sincerely,

Christina Wilburn

Christina Wilburn, Site Acquisition Specialist

The Foundation for a Wireless World.
CrownCastle.com

857981 - 42943 308TH STREET, TABOR, SD 57063

T-Mobile

T-MOBILE SITE NUMBER: DM03842A
T-MOBILE SITE NAME: CROWN BU-857981
T-MOBILE PROJECT: DM03842A

BUSINESS UNIT #: 857981
SITE ADDRESS: 42943 308TH STREET
COUNTY: YANKTON
SITE TYPE: GUYED
TOWER HEIGHT: 380'-0"



8000 W 79TH ST
 MINNEAPOLIS, MN 55419



CROWN CASTLE
 1600 UTICA AVENUE SOUTH
 ST. LOUIS PARK, MN 55416



RAMAKER
 888.643.4100 www.ramaker.com
 RAMAKER PROJECT #: 85228

T-MOBILE SITE NUMBER:
 DM03842A
BU #: 857981
ZOD_ALLTEL_SD09_TABOR
 42943 308TH STREET
 TABOR, SD 57063
EXISTING 380'-0" GUYED

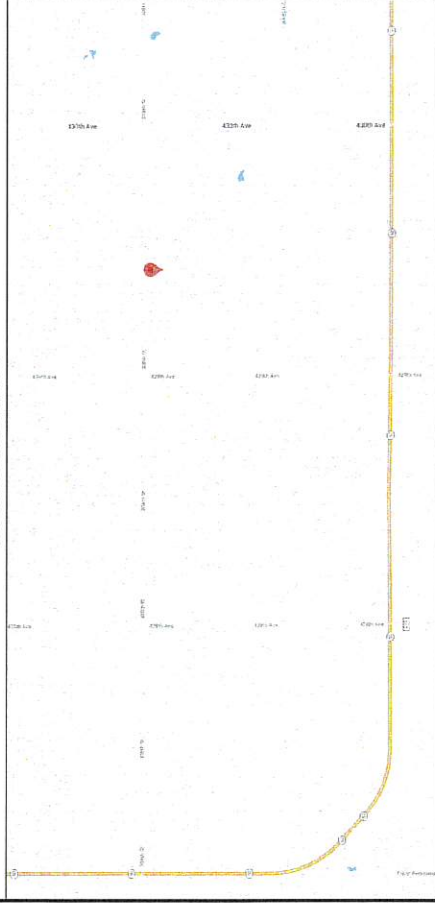
ISSUED FOR:			
REV#	DATE	DRWN	DESCRIPTION
0	5/31/2022	ADP	FINAL



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

SHEET NUMBER: T-1
REVISION: 0

LOCATION MAP



NO SCALE

DRAWING INDEX

SHEET #	TITLE/SHEET	SHEET DESCRIPTION
T-2	GENERAL NOTES	
G-1	SITE PLAN	
C-1	EXISTING & FINAL EQUIPMENT PLANS	
C-2	FINAL ELEVATION & ANTENNA PLANS	
C-3	EQUIPMENT DETAILS & COAX COLOR CODING	
C-4	EQUIPMENT SIZES	
E-1	PANEL SCHEDULE AND ONE LINE DIAGRAM	
G-1	TYPICAL FINAL GROUNDING SCHEMATIC	
G-2	GROUNDING DETAILS	

ALL PLANS AND SPECIFICATIONS ARE TO BE CONSIDERED AS PART OF THE CONTRACT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL GOVERNING AUTHORITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL GOVERNING AUTHORITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL GOVERNING AUTHORITIES.



PROJECT DESCRIPTION

THE PURPOSE OF THIS PROJECT IS TO ENHANCE THE SERVICE QUALITY TO THE EXISTING BLAGHAR WIRELESS FACILITY.

TOWER SCOPE OF WORK:

- INSTALL (0) BREAKOUT PENDANT
- INSTALL (0) HYBRID CABLE (1-1/2')

GROUND SCOPE OF WORK:

- REMOVE (0) ABIL
- REMOVE (0) ABMA
- REMOVE (0) ASB
- REMOVE (0) ASH
- REMOVE (0) FSNP
- INSTALL (0) ASH4
- INSTALL (0) ABOS
- INSTALL (0) JUNCTION BOX

SITE INFORMATION

CROWN CASTLE/USA INC.
SITE NAME: ZOD_ALLTEL_SD09_TABOR
SITE ADDRESS: 42943 308TH STREET
 TABOR, SD 57063
COUNTY: YANKTON
MAP/PARCEL #: 14-032-400140
AREA OF CONSTRUCTION: EXISTING
LATITUDE: 42.91889
LONGITUDE: 97.607
NAD83: 1995
GROUND ELEVATION: YANKTON COUNTY
CURRENT ZONING: U
PERMITS/CLASSIFICATION: U
TYPE OF CONSTRUCTION: U
AD.A COMPLIANCE: U
PROPERTY OWNER: IBB
 FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION
 KOTLIK, ARTHUR J REVTRUST
 906 WEST 15 ST
 YANKTON, SD 57078
TOWER OWNER: CROWN CASTLE
 2000 CORPORATE DRIVE
 CANONSBURG, PA 15117
CARRIER/APPLICANT: T-MOBILE
 800 W 79TH ST
 MINNEAPOLIS, MN 55419
ELECTRIC PROVIDER: BORN HOME/YANKTON ELECTRIC ASSOC.
TELCO PROVIDER: EXISTING

PROJECT TEAM

AREA/FRM: RAMAKER & ASSOCIATES, INC.
 1600 UTICA AVENUE SOUTH
 ST. LOUIS PARK, MN 55416
 CONTACT: JASON FRAZIER, PROJECT MANAGER
 (608) 643-4100
 EMAIL: JFRAZIER@RAMAKER.COM
CROWN CASTLE/USA INC. DISTRICT CONTACTS:
 1600 UTICA AVENUE SOUTH
 ST. LOUIS PARK, MN 55416
 TED DEHN - PROJECT MANAGER
 TED.DEHN@CROWNCASTLE.COM
 CORY DAMGAARD - CONSTRUCTION MANAGER
 CORY.DAMGAARD@CROWNCASTLE.COM

APPLICABLE CODES/REFERENCE DOCUMENTS

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

CODE TYPE	CODE
BUILDING	2021 IBC
ELECTRICAL	2017 NFPA 70E 2008 NEC

REFERENCE DOCUMENTS:

STRUCTURAL ANALYSIS: BY OTHERS
 DATED: _____

MOUNT ANALYSIS: BY OTHERS
 DATED: _____

REDS REVISION: 2
 DATED: 4/4/2022
 ORDER ID: 66965
 REVISION: 0

NOTE: PRIOR TO ACCESSING/ENTERING THE SITE, YOU MUST CONTACT THE CROWN INC. AT (800) 786-7011 & CROWN CONSTRUCTION MANAGER.

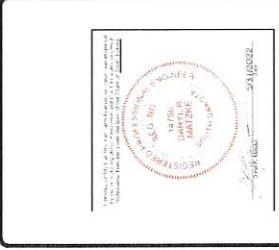
T-Mobile
8600 W 78TH ST
MINNEAPOLIS, MN 55439

CROWN CASTLE
1660 UTTICA AVENUE SOUTH
ST. LOUIS PARK, MN 55416

RAMAKER
888 624 4100 www.ramaker.com
RAMAKER PROJECT #: 85228

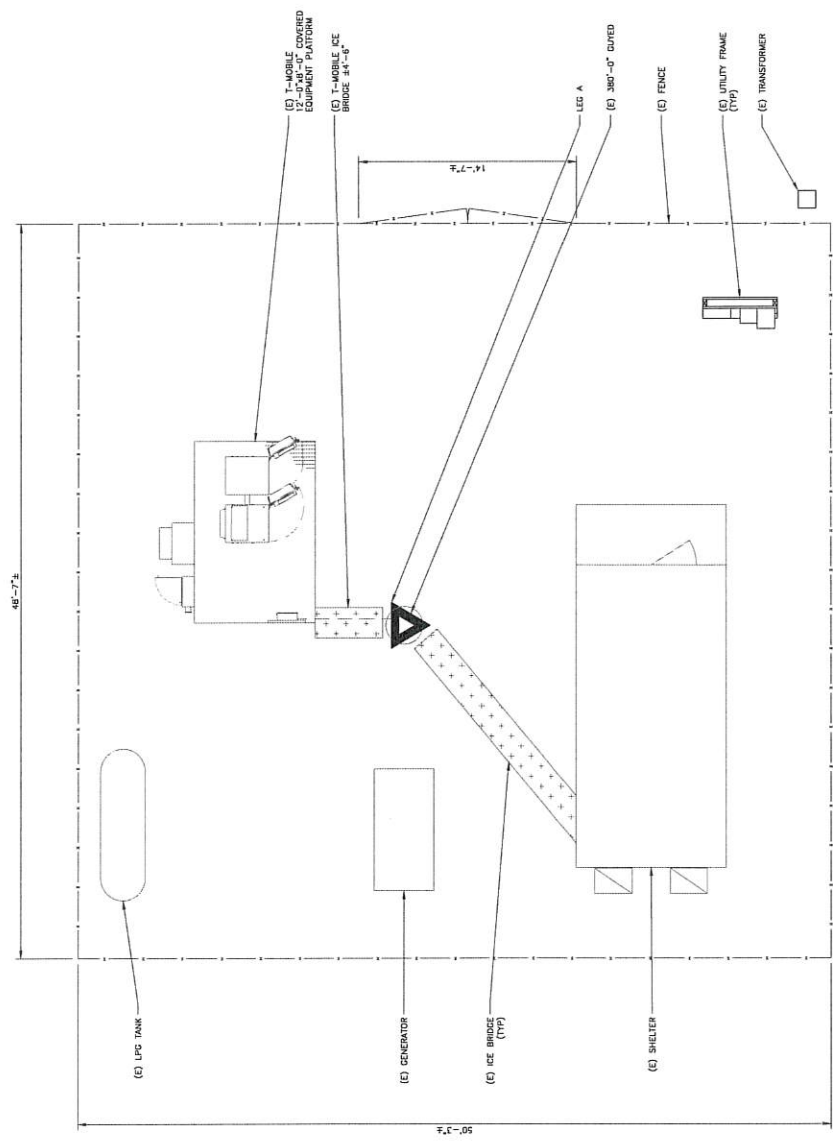
T-MOBILE SITE NUMBER:
DM03842A
BU #: 857981
ZOD_ALLTEL_SD09_TABOR
42943 308TH STREET
TABOR, SD 57063
EXISTING 380'-0" GUYED

REV	DATE	DRWS	DESCRIPTION	DES. BY
0	3/10/2012	MDP	FINAL	JF



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SHEET NUMBER: **C-1.1**
REVISIONS: **0**



1 SITE PLAN
SCALE: 1/8"=1'-0" (HALF) AND 1/8"=1'-0" (TYP)



8000 W 78TH ST
MINNEAPOLIS, MN 55439



1600 UTECA AVENUE SOUTH
ST. LOUIS PARK, MN 55116



RAMAKER PROJECT # 5223

T-MOBILE SITE NUMBER:
DM03842A
BU #: 857981
ZOD_ALLTEL_SD09_TABOR
42043 308TH STREET
TABOR, SD 57063
EXISTING 380'-0" GUYED

REV	DATE	DRWS	DESCRIPTION	DES/PA
0	5/10/2022	SDP	FINAL	JP



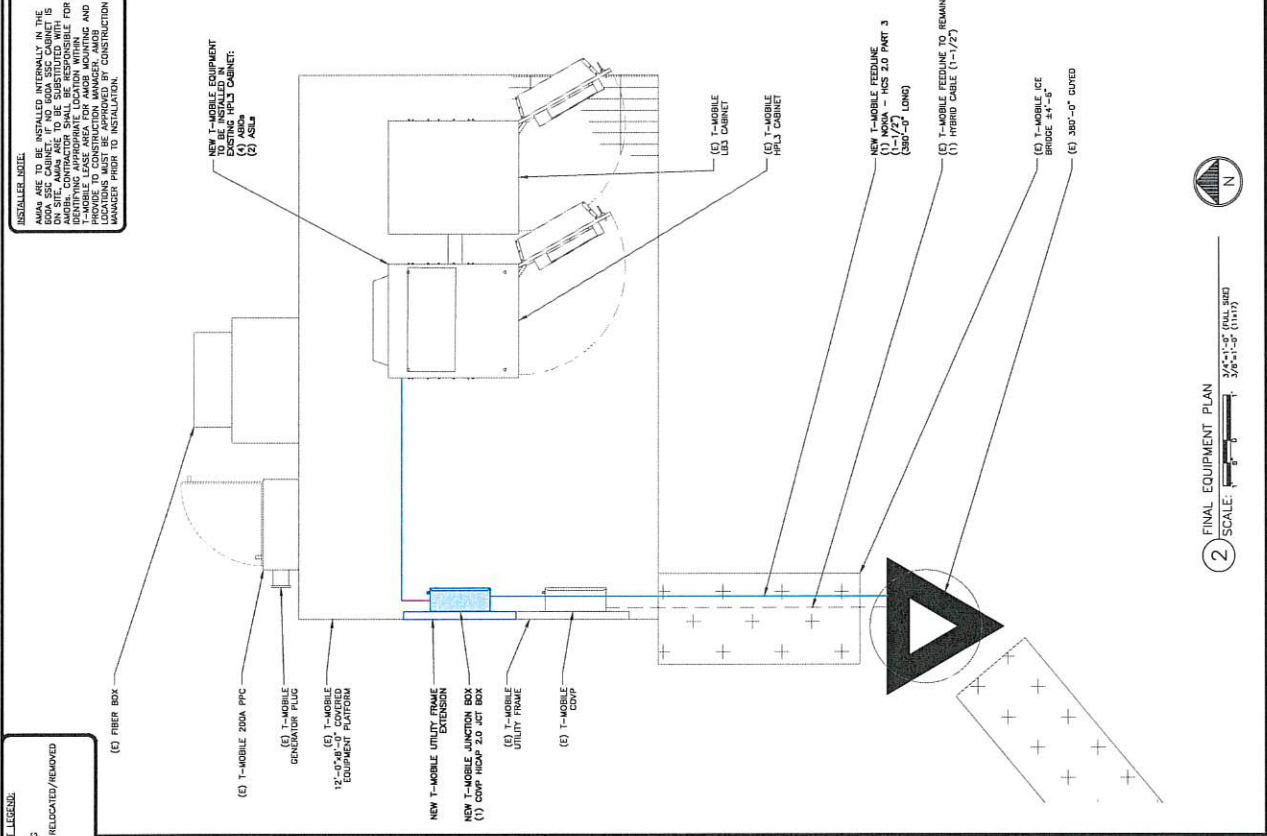
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SHEET NUMBER: **C-1.2** REVISIONS: **0**

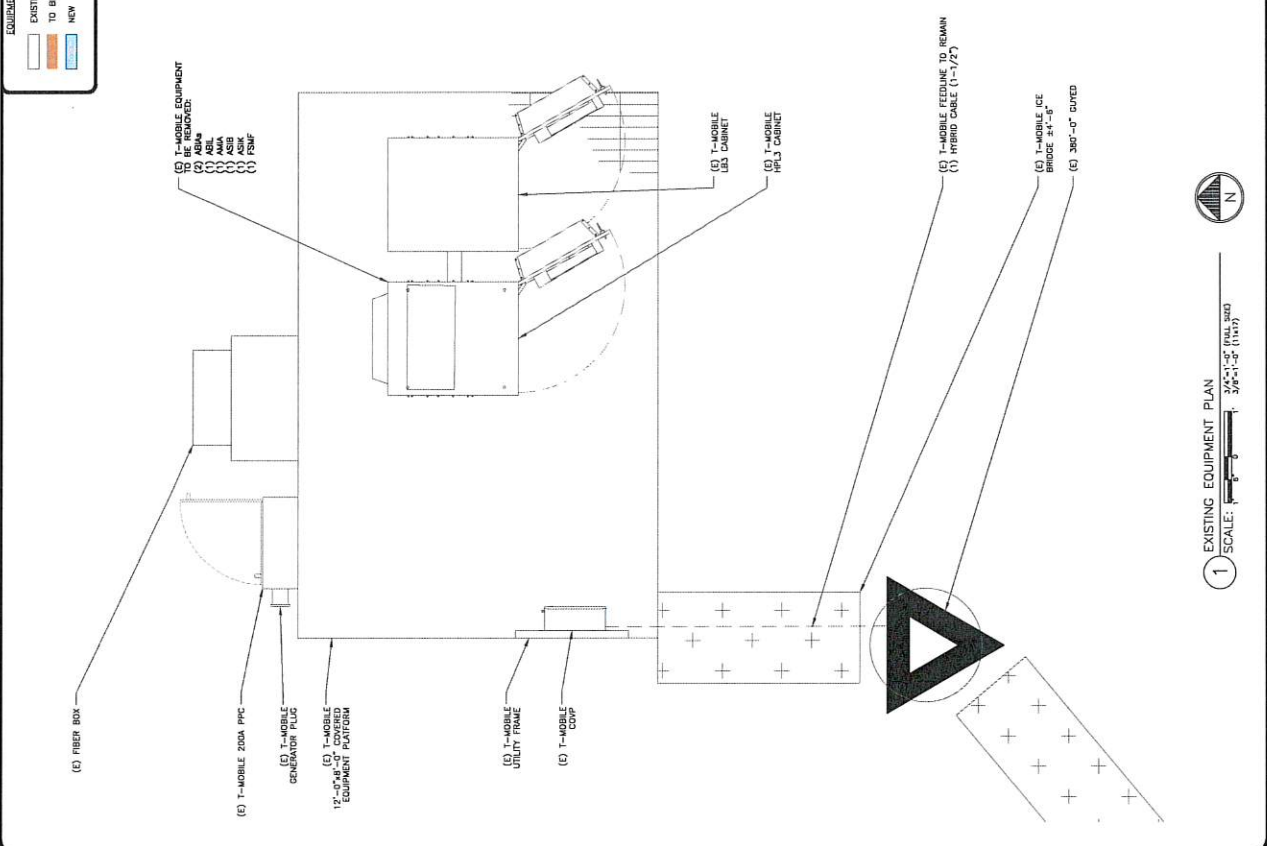
INSTALLER NOTE:
AREAS ARE TO BE INSTALLED INTERNALLY IN THE T-MOBILE EQUIPMENT CABINET. THE T-MOBILE EQUIPMENT CABINET SHALL BE SUBSTITUTED WITH AN AMBIL CABINET. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE NECESSARY PERMITS FOR THE T-MOBILE LEASE AREA FOR AMBIL MOUNTING AND INSTALLATION. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF TABOR PRIOR TO INSTALLATION.

EQUIPMENT LEGEND:

EXISTING	TO BE RELOCATED/REMOVED	NEW
----------	-------------------------	-----



2 FINAL EQUIPMENT PLAN
SCALE: 3/8\"/>



1 EXISTING EQUIPMENT PLAN
SCALE: 3/8\"/>

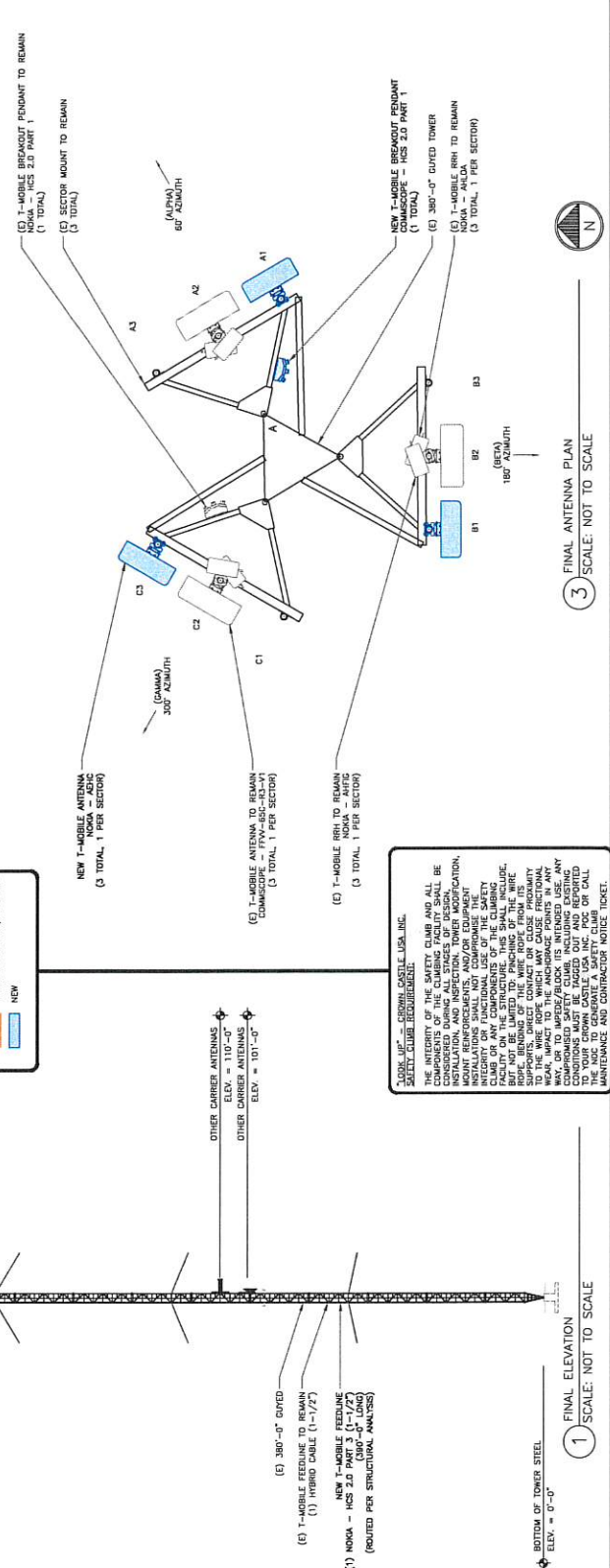
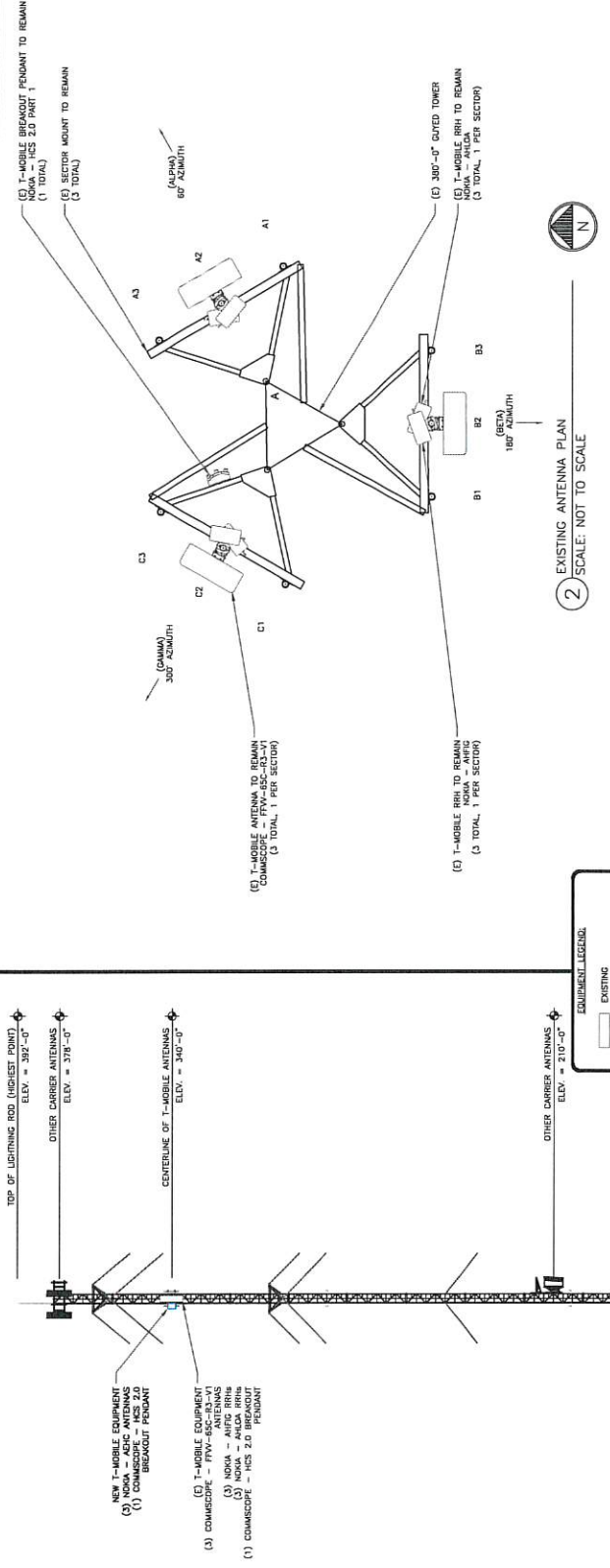
T-MOBILE SITE NUMBER:
DM05842A
BU #: 857981
ZOD_ALLTEL_SD09_TABOR
42943 308TH STREET
TABOR, SD 57063
EXISTING 380'-0" GUYED

REV	DATE	DRWN	DISTRIBUTION	DIS-APP	JF
8	3/31/2022	MDP	FINAL		



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

SHEET NUMBER:
C-2
REVISIONS:
0



EQUIPMENT LEGEND:
 EXISTING
 TO BE RELOCATED/REMOVED
 NEW

LOOK UP! - CORONA SAFETY CLIMB, INC.
 THE INTEGRITY OF THE SAFETY CLIMB AND ALL COMPONENTS OF THE CLIMBING FACILITY SHALL BE MAINTAINED AT ALL TIMES. PREVIOUS TO ANY INSTALLATION, AND INSPECTION, TOWER MODIFICATION, OR REPAIR WORK, THE SAFETY CLIMBING FACILITY SHALL BE INSPECTED AND FOUND TO BE IN COMPLIANCE WITH THE SAFETY CLIMBING FACILITY REQUIREMENTS. THE SAFETY CLIMBING FACILITY SHALL NOT BE MODIFIED, ALTERED, OR REPLACED IN ANY MANNER WITHOUT THE WRITTEN APPROVAL OF CORONA SAFETY CLIMB, INC. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE SAFETY CLIMBING FACILITY MANUAL. TO THE EXTENT POSSIBLE, THE SAFETY CLIMBING FACILITY SHALL BE MAINTAINED IN SUCH A MANNER AS TO PREVENT WEAR, IMPACT TO THE ANCHORAGE POINTS IN ANY MANNER, AND TO PREVENT THE SAFETY CLIMBING FACILITY FROM BEING DAMAGED. CORONA SAFETY CLIMB, INC. SHALL BE NOTIFIED IMMEDIATELY BY E-MAIL TO YOUR CORONA SAFETY CLIMB, INC. POC OR CALL CORONA SAFETY CLIMB, INC. TO GENERATE A SAFETY CLIMB TICKET. MAINTENANCE AND CONSTRUCTION NOTICES TICKET.

1 FINAL ELEVATION
 SCALE: NOT TO SCALE
 BOTTOM OF TOWER STEEL
 ELEV. = 0'-0"

2 EXISTING ANTENNA PLAN
 SCALE: NOT TO SCALE

3 FINAL ANTENNA PLAN
 SCALE: NOT TO SCALE

TOP OF LIGHTNING ROD (HIGHEST POINT)
 ELEV. = 392'-0"

OTHER CARRIER ANTENNAS
 ELEV. = 378'-0"

CENTRELINE OF T-MOBILE ANTENNAS
 ELEV. = 380'-0"

OTHER CARRIER ANTENNAS
 ELEV. = 101'-0"

NEW T-MOBILE EQUIPMENT
 (3) NOKIA - AHSIS ANTENNAS
 (1) COMSCOPE - HES 2.0 BREAKOUT PENDANT

(E) T-MOBILE EQUIPMENT TO REMAIN
 (3) NOKIA - AHSIS ANTENNAS
 (3) NOKIA - ALICA RRH
 (1) COMSCOPE - HES 2.0 BREAKOUT PENDANT

(E) T-MOBILE FEEDLINE
 (1) NOKIA - HES 2.0 PART 3 (1-1/2")
 (380'-0" LONG)
 (ROUTED PER STRUCTURAL ANALYSIS)

(E) 380'-0" GUYED
 (E) T-MOBILE FEEDLINE TO REMAIN (1-1/2")
 (1) HYBRID CABLE (1-1/2")

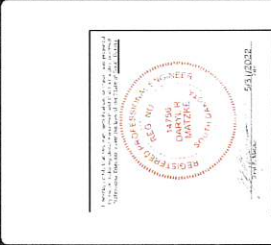
T-Mobile
 800 W 78TH ST
 MINNEAPOLIS, MN 55439

CROWN CASTLE
 1600 LUTICA AVENUE SOUTH
 ST. LOUIS PARK, MN 55416

RAMAKER
 (952) 833-8100 www.ramaker.com
 RAMAKER PROJECT #: 85228

T-MOBILE SITE NUMBER:
DM03842A
 BU #: 857981
ZOD_ALLTEL_SD09_TABOR
 42943 308TH STREET
 TABOR, SD 57065
 EXISTING 380'-0" GUYED

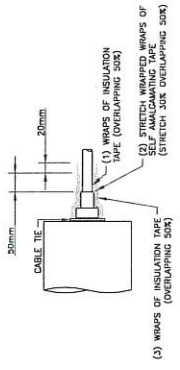
REV	DATE	DRWS	DESCRIPTION	DIS. BY
1	11/11/2012	MBP	FINAL	JF



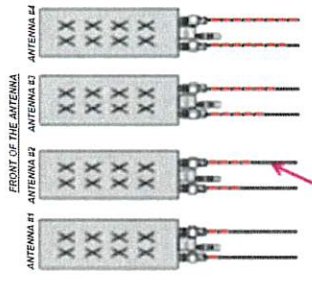
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A REGISTERED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

SHEET NUMBER: **C-3**
 REVISION: **0**

INSTALLER LABEL
 JUMPERS TO BE TORQUED TO 221.27 IN/LBS



RF JUMPER CONNECTION
 SCALE: NOT TO SCALE



EXAMPLE: COAX WITH FOUR BANDS OF RED TAPE WILL REPRESENT ALPHA SECTOR AND THE 4TH PORT OF ANTENNA

- ANTENNA AND COAXIAL CABLE SCHEDULE**
- ALL ANTENNAS SHALL BE FURNISHED WITH THE FOLLOWING INFORMATION:
 - CONTRACTOR SHALL COORDINATE REQUIRED MECHANICAL DIMENSIONS FOR ANTENNAS AND COAXIAL CABLES.
 - ANTENNA DOWNWITTS SHALL BE SET AND VERIFIED BY A SMART LEVEL.
 - ANTENNAS SHALL BE IDENTIFIED BY COLOR CODE AND JUMPER CABLES WITH U/I RESISTANT TOP AND BOTTOM WITH 2" COLOR TAPE OR CONTAINED FROM GRAVITY ELECTRONICS.

Coax Color Coding

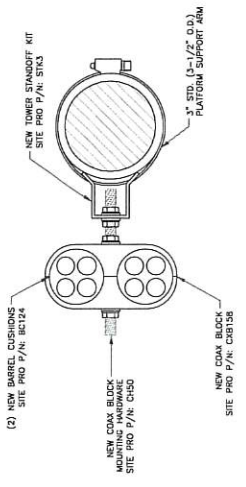
- Antennas shall be color coded by sector and port.
- Antennas shall be color coded by sector and port.

SECTOR A	RED	ORANGE
SECTOR B	GREEN	PINK
SECTOR C	BLUE	YELLOW
SECTOR D	PURPLE	WHITE
SECTOR E	BROWN	GRAY
SECTOR F	PINK	ORANGE
LUMI	BROWN	SECTOR COLOR BANDS (1 & 3)
FIBER ID	GRAY	
UNUSED COAX	PINK	
MICROWAVE	ORANGE	
OWE TUNING OF DOWNLINK CABLE	ID LABEL MAKER	

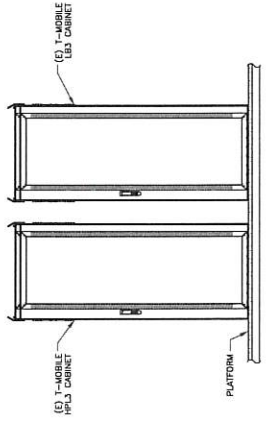
- METALLIC TAG NOTES:**
- TWO METALLIC TAGS SHALL BE ATTACHED AT EACH END OF EVERY CABLE LONGER THAN 10 FEET.
 - METALLIC TAGS SHALL BE ATTACHED TO THE CENTER OF THE CABLE.
 - CABLE TAGS WILL BE FASTENED WITH ANGLE STEEL ZIP TIES APPROPRIATE FOR CABLE DIAMETER.
 - STANDARDIZED METALLIC TAGS WILL BE ASSEMBLED IN CONFIGURATIONS AS SHOWN TO ACCOMMODATE ALL CONFIGURATIONS.



COAX COLOR CODING
 SCALE: NOT TO SCALE



RF JUMPER DETAIL
 SCALE: NOT TO SCALE



GROUND EQUIPMENT ELEVATION
 SCALE: NOT TO SCALE



8000 W. 78TH ST.
MINNEAPOLIS, MN 554 39



1600 UTICA AVENUE SOUTH
ST. LOUIS PARK, MN 55416



RAMAKER PROJECT #: 55228

T-MOBILE SITE NUMBER:
DM03842A

BU #: 857981

ZOD_ALLTEL_SD09_TABOR

42943 308TH STREET
TABOR, SD 57063

EXISTING 380'-0" GUYED

ISSUED FOR:

REV	DATE	DWG	DESCRIPTION	ISSUED BY
0	5/12/2022	MDP	FINAL	JP



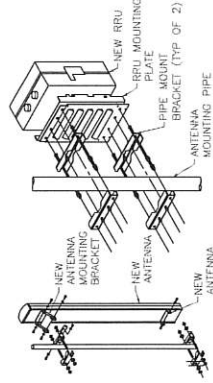
IT IS YOUR RESPONSIBILITY FOR ANY PERSONS UNLESS THEY ARE ACTING UNDER THE DIRECTION OF OR IN THE PRESENCE OF THE ENGINEER.

SHEET NUMBER: **C-4**

REVISIONS: **0**

3 NOT USED
SCALE: NOT TO SCALE

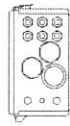
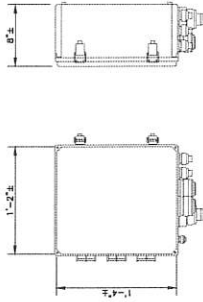
INSTALLER NOTES:
1. COMPLY WITH MANUFACTURER'S INSTRUCTIONS TO ENSURE THAT ALL RRU'S RECEIVE ELECTRICAL POWER WITHIN 24 HOURS OF BEING REMOVED FROM THE MANUFACTURER'S PACKAGING.
2. DO NOT OPEN ANY PACKAGES IN THE RAIN.
3. DO NOT REMOVE PACKAGES OR INCLUDES TO BE GALVANIZED UNLESS NOTED OTHERWISE.



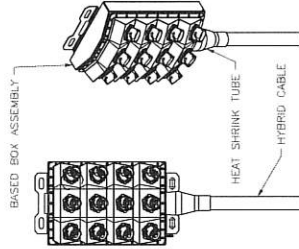
NOTE:
ALL PIPES BRACKETS AND ACCESSORIES SHOWN TO BE GALVANIZED UNLESS NOTED OTHERWISE.

6 ANTENNA & RRU MOUNTING DETAIL
SCALE: NOT TO SCALE

2 RAYCAP JUNCTION BOX DETAIL
SCALE: NOT TO SCALE



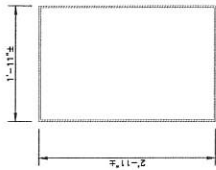
RAYCAP JUNCTION BOX
MODEL NUMBER: RMJBC-5634-PF-48
DIMENSIONS: 16" (HEIGHT) X 14" (WIDTH) X 8" (DEPTH)
WEIGHT: 21.85 LBS.



COMMSCOPE JUNCTION BOX
MODEL NUMBER: HCS 2.0 PART 1
DIMENSIONS: 14.00" (HEIGHT) X 16.00" (WIDTH) X 8.00" (DEPTH)
WEIGHT: 23.5 LBS.

5 COMMSCOPE - HCS 2.0 PART 1
SCALE: NOT TO SCALE

1 NOKIA ANTENNA DETAIL
SCALE: NOT TO SCALE



NOKIA PANEL ANTENNA
MODEL NUMBER: AEHC
DIMENSIONS: 35.43" (HEIGHT) X 22.83" (WIDTH) X 8.26" (DEPTH)
WEIGHT: 99.20 LBS.

4 NOT USED
SCALE: NOT TO SCALE



8000 W 78TH ST
MINNEAPOLIS, MN 55419



1600 UTICA AVENUE SOUTH
ST. LOUIS PARK, MN 55416



RAMAKER PROJECT #: 8228

T-MOBILE SITE NUMBER:
DM03842A
BU #: 857981
ZOD_ALLTEL_SD09_TABOR
42943 308TH STREET
TABOR, SD 57063
EXISTING 380'-0" GUYED

ISSUED FOR:

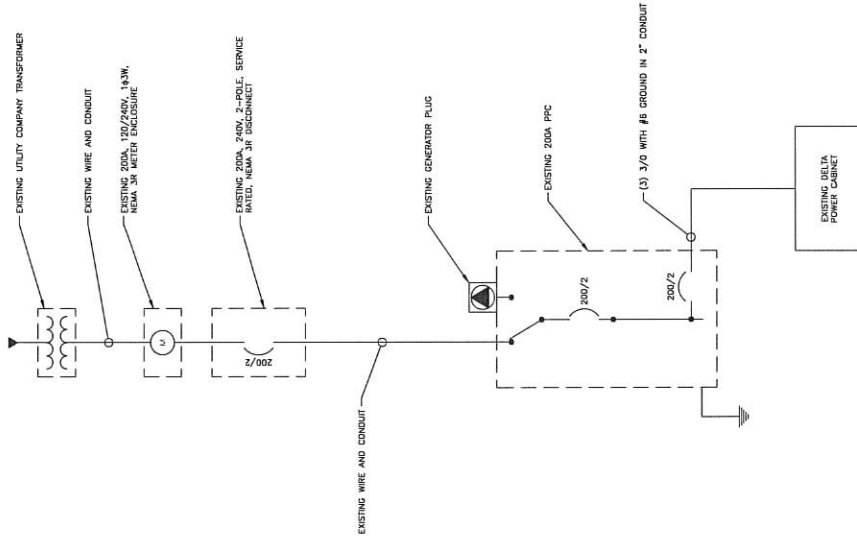
REV	DATE	DRWS	DESCRIPTION	DESIGN
1	5/10/2012	MDP	ISSUAL	JP



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SHEET NUMBER: E-1
REVISION: 0

- NOTE:**
1. ALL CONDUITS SHALL BE USED AND SHALL BE COVERED. ALL CONDUITS SHALL BE 1/2" MIN. THICK. SHALL BE 1/2" MIN. O.D. WITH 2 WIREDS NOTED OTHERWISE.
 2. CONTRACTOR IS TO FIELD VERIFY ALL EXISTING ITEMS SHOWN ON THE DRAWING. CONTRACTOR SHALL VERIFY ALL EXISTING ITEMS AND RECORD THE RESULTS OF ALL FIELD VERIFICATION. CONTRACTOR SHALL VERIFY ALL EXISTING ITEMS AND RECORD THE RESULTS OF ALL FIELD VERIFICATION.
 3. ALL CIRCULATING AND BONDING PER THE NEC.



1 ONE LINE DIAGRAM
2 SCALE: NOT TO SCALE

AC Distribution Panel - Layout Diagram

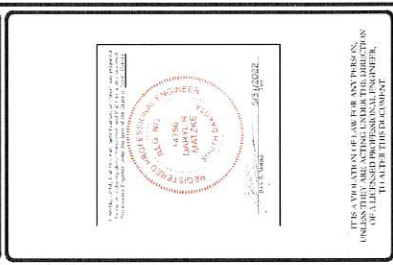
Breaker Position	Breaker Type	On/Off	Size	Circuit Label	Breaker Position	Breaker Type	On/Off	Size	Circuit Label
1	2P	ON	30	SURGE PROTECTOR	2	1P	ON	15	PPC GFCI
3	2P	ON	30	SURGE PROTECTOR	4	1P	ON	15	PPC GFCI
5	1P	ON	20	LIGHTS	6	2P	ON	200	HPL3
7	1P	ON	20	GFCI	8	2P	ON	200	HPL3
9	1P	ON	20	GFCI	10	2P	ON	200	HPL3
11	1P	ON	20	GFCI	12	2P	ON	200	HPL3
13	1P	ON	20	GFCI	14	2P	ON	200	HPL3
15	1P	ON	20	GFCI	16	2P	ON	200	HPL3
17	1P	ON	20	GFCI	18	2P	ON	200	HPL3
19	1P	ON	20	GFCI	20	2P	ON	200	HPL3
21	1P	ON	20	GFCI	22	2P	ON	200	HPL3
23	1P	ON	20	GFCI	24	2P	ON	200	HPL3
25	1P	ON	20	GFCI	26	2P	ON	200	HPL3
27	1P	ON	20	GFCI	28	2P	ON	200	HPL3
29	1P	ON	20	GFCI	30	2P	ON	200	HPL3

1 EXISTING PANEL SCHEDULE
SCALE: NOT TO SCALE



T-MOBILE SITE NUMBER:
DM03842A
 BU #: 857981
ZOD_ALLTEL_SD09_TABOR
 42943 308TH STREET
 TABOR, SD 57063
 EXISTING 380'-0" GUYED

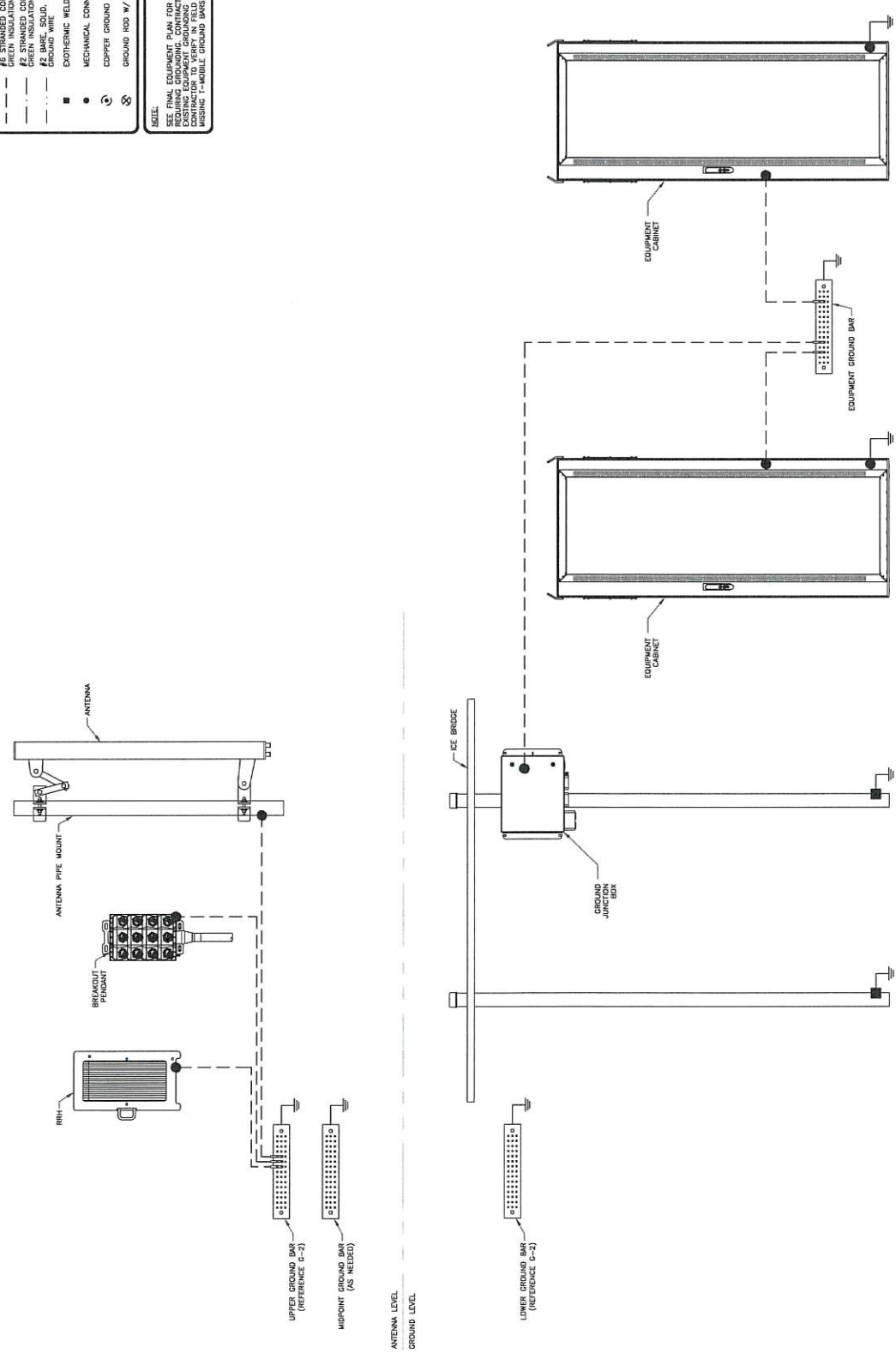
REV#	DATE	DRWNS	DESCRIPTION	DRS (A)
1	5/10/2022	MDP	FINAL	JP



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 SHEET NUMBER: **G-1** REVISIONS: **0**

GROUNDING PLAN LEGEND:
 #6 STRANDED COPPER WITH GREEN INSULATION
 #2 STRANDED COPPER WITH GREEN INSULATION
 #2 BARE SOLID TINNED COPPER GROUND WIRE
 COTHERMIC WELD
 MECHANICAL CONNECTION
 COPPER GROUND ROD
 GROUND ROD W/ TEST WELL

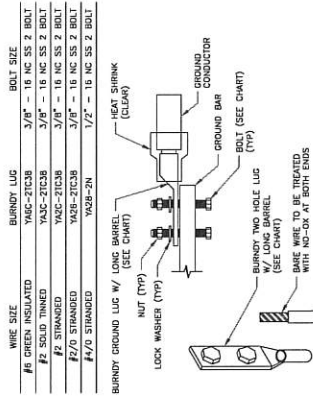
NOTE:
 SEE FINAL EQUIPMENT PLAN FOR NEW EQUIPMENT CONNECTIONS. CONTRACTOR TO VERIFY EXISTING EQUIPMENT GROUNDING IN FIELD. CONTRACTOR TO VERIFY IN FIELD AND INSTALL ANY MISSING T-MOBILE GROUND BARS ON SITE.



1 TYPICAL FINAL GROUNDING SCHEMATIC
 SCALE: NOT TO SCALE

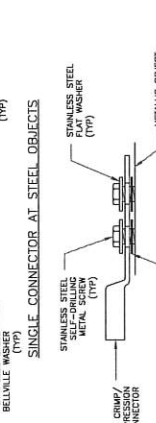
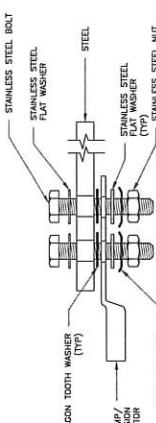
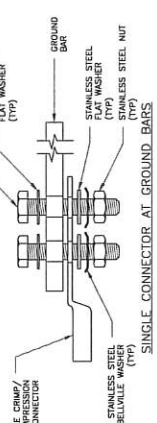
ISSUED FOR:

REV	DATE	REVISED	DESCRIPTION	DESIGN
1	3/1/2012	MDP	FINAL	JF

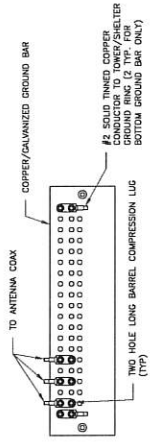


NOTE:
ALL GROUNDING LUGS ARE TO BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. ALL HARDWARE BEING USED SHALL BE STAINLESS STEEL UNLESS OTHERWISE SPECIFIED. ALL HARDWARE SHALL BE TREATED WITH AN ANTI-OXIDANT FINISH. HARDWARE ARE TO BE AS FOLLOWS: BOLT, FLAT WASHER, LOCK WASHER AND NUT.

STRANDED (SEE CHART)
BUNDLING TWO HOLE LUG (SEE CHART)
BARE WIRE TO BE TREATED WITH WD-40 AT BOTH ENDS

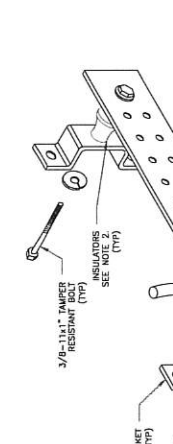


9 HARDWARE DETAIL FOR EXTERIOR CONNECTIONS
SCALE: NOT TO SCALE



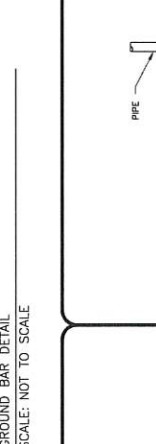
1 TOWER/SHELTER GROUND BAR DETAIL
SCALE: NOT TO SCALE

NOTES:
1. EXTERIOR ANTI-OXIDANT JOINT COMPOUND TO BE USED ON ALL EXTERIOR CONNECTIONS.
2. GROUND BARS SHALL BE DIRECTLY CONNECTED TO TOWER STEEL (TOWER ONLY).
3. GROUND BAR SHALL BE ISOLATED FROM BUILDING OR SHELTER.



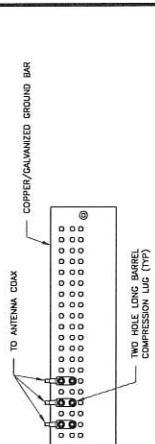
5 GROUND BAR DETAIL
SCALE: NOT TO SCALE

NOTES:
1. DOWN LUGS (WALL BRACKET CONNECTIONS) ARE NOT TO BE INSTALLED IN PERSON CASTLE DOWN TOWERS FOR THE GROUNDING TOWER CONDUCTOR POINT. USE STATIONARY AND WELDING OR DRILLING TO TOWER STEEL IS ALLOWED IN ANY FORM OR FASHION, AND CAP-RECORDING ON THE TOWER AND/OR IN THE AIR ARE NOT PERMITTED.
2. INSULATORS ARE TO BE USED TO ISOLATE THE PLATFORM STEEL FROM THE GROUNDING TOWER.
3. USE INSULATORS WHEN MOUNTING TO BUILDING OR SHELTER.



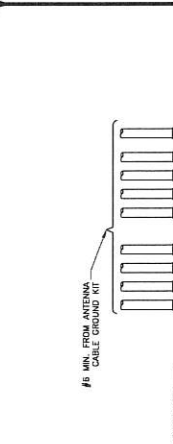
8 TRANSITIONING GROUND DETAIL
SCALE: NOT TO SCALE

NOTE:
#2 THINNED SOLID IN 3/4" LIQUID TIGHT COMPOUND TO BE USED ON ALL EXTERIOR CONNECTIONS. THE TERMINATION POINT EXPOSED END OF THE CONDUCTOR SHALL BE SEALED WITH SILICONE CALK.



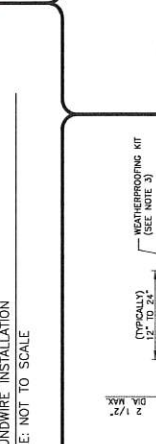
1 ANTENNA GROUND BAR DETAIL
SCALE: NOT TO SCALE

NOTES:
1. DOUBLING UP OR STACKING UP CONNECTIONS IS NOT PERMITTED.
2. GROUND BARS SHALL BE ISOLATED FROM TOWER. MOUNT DIRECTLY TO TOWER STEEL.
3. GROUND BAR SHALL NOT BE ISOLATED FROM BUILDING OR SHELTER.



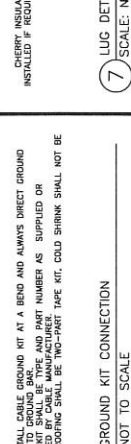
4 GROUND WIRE INSTALLATION
SCALE: NOT TO SCALE

NOTES:
1. TWO HOLE LUGS OR ENDING SHALL BE USED WITH #2 BARE WIRE TO METAL TOWER OR GROUND RING.
2. ELIMINATING SHALL BE USED WITH #2 BARE WIRE TO METAL TOWER OR GROUND RING.



6 CABLE GROUND KIT CONNECTION
SCALE: NOT TO SCALE

NOTES:
1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
2. WIRE DOWN TO GROUND BAR AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.
3. WEATHER PROOFING SHALL BE TWO-PART TAPE KIT. COLD SHRINK SHALL NOT BE USED.



7 LUG DETAIL
SCALE: NOT TO SCALE

Date: May 19, 2022



Tower Engineering Professionals
326 Tryon Road
Raleigh, NC 27603
(919) 661-6351

Subject: Structural Analysis Report

Carrier Designation:

T-Mobile Co-Locate

Site Number:

DM03842A

Site Name:

N/A

Crown Castle Designation:

BU Number:

857981

Site Name:

ZOD_Alltel_SD09_Tabor

JDE Job Number:

704115

Work Order Number:

2111213

Order Number:

603055 Rev. 0

Engineering Firm Designation:

TEP Project Number:

56544.700659

Site Data:

42943 308th Street, Tabor, Yankton County, SD 57063

Latitude 42° 55' 18.80", Longitude -97° 36' 25.20"

380 Foot - Guyed Tower

Tower Engineering Professionals is pleased to submit this "**Structural Analysis Report**" to determine the structural integrity of the above-mentioned tower.

The purpose of the analysis is to determine acceptability of the tower stress level. Based on our analysis we have determined the tower stress level for the structure and foundation, under the following load case, to be:

LC5: Proposed Equipment Configuration

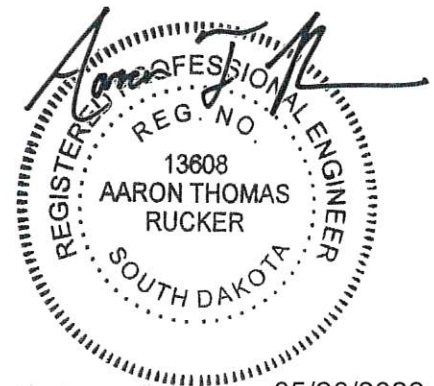
Sufficient Capacity

This analysis has been performed in accordance with the 2018 International Building Code based upon an ultimate 3-second gust wind speed of 113 mph. Applicable Standard references and design criteria are listed in Section 2 - Analysis Criteria.

Structural analysis prepared by: Gautam Sopal, E.I. / CLT

Respectfully submitted by:

Aaron T. Rucker, P.E.



Electronic Copy

05/20/2022

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1) INTRODUCTION

This tower is a 380-ft guyed tower designed by Sabre Communications Corporation. The tower has been modified per reinforcement drawings prepared by B+T Group in March of 2014.

2) ANALYSIS CRITERIA

TIA-222 Revision:	TIA-222-H
Risk Category:	II
Wind Speed:	113 mph
Exposure Category:	C
Topographic Factor:	1.0
Ice Thickness:	1.0 in
Wind Speed with Ice:	50 mph
Service Wind Speed:	60 mph

Table 1 - Proposed Equipment Configuration

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
340.0	340.0	3	Commscope	FFVV-65C-R3-V1_TMO w/ Mount Pipe	2	1-1/2
		3	Nokia	AEHC w/ Mount Pipe		
		3	Nokia	AHLOA		
		3	Nokia	AHFIG_TMO		
		2	Commscope	HCS 2.0 Part 1		
		3	Site Pro 1	VFA12-HD Sector Mount		

Table 2 - Other Considered Equipment

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
378.0	378.0	6	KMW Comm.	EPBQ-654L8H8-L2 w/ Mount Pipe	9 4 1	1-5/8 3/4 3/8
		3	Nokia	AHLBA		
		1	Raycap	DC6-48-60-0-8C		
		3	Alcatel Lucent	B25 RRH4X30		
		3	Alcatel Lucent	B66A RRH4X45		
		3	Alcatel Lucent	RRH2X40-07L-DE		
		3	Andrew	E15Z01P13		
		1	Raycap	DC6-48-60-18-8F		
		1	Tower Mounts	Sector Mount [SM 602-3]		
215.0	215.0	1	Valmont	ISMD8-R5LL	-	-
210.0	210.0	1	Commscope	UHX6-59-P3A/L	1	EWP63-65
		2	Alcatel Lucent	9500 MPR		
		1	Tower Mounts	Pipe Mount [PM 601-1]		

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
110.0	110.0	1	Commscope	MD-S4	-	-
101.0	101.0	1	Tower Mounts	Side Arm Mount [SO 203-1]	1	EW63
	100.0	1	Andrew	P4-57W-PXA		

3) ANALYSIS PROCEDURE

Table 3 - Documents Provided

Document	Reference	Source
Geotechnical Report	5662420	CCISites
Tower Foundation Drawings	5165662	CCISites
Tower Manufacturer Drawings	4860167	CCISites
Tower Reinforcement Drawings	4992762	CCISites
Post-Modification Inspection	5406758	CCISites

3.1) Analysis Method

tnxTower (version 8.1.1.0), a commercially available analysis software package, was used to create a three-dimensional model of the tower and calculate member stresses for various loading cases. Selected output from the analysis is included in Appendix A. When applicable, Crown Castle has calculated and provided the effective area for panel antennas using approved methods following the intent of the TIA-222 Standard.

3.2) Assumptions

- 1) The tower and structures were maintained in accordance with the TIA-222 Standard.
- 2) The configuration of antennas, transmission cables, mounts and other appurtenances are as specified in Tables 1 and 2, and the referenced drawings.

This analysis may be affected if any assumptions are not valid or have been made in error. Tower Engineering Professionals should be notified to determine the effect on the structural integrity of the tower.

4) ANALYSIS RESULTS

Table 4 - Section Capacity (Summary)

Section No.	Elevation (ft)	Component Type	Size	Critical Element	P (k)	ϕP_{allow} (k)	% Capacity	Pass / Fail
T1	380 - 360	Leg	1 3/4	3	-28.79	62.31	46.2	Pass
T2	360 - 340	Leg	1 3/4	44	-24.63	62.31	39.5	Pass
T3	340 - 320	Leg	2	87	-47.57	93.69	50.8	Pass
T4	320 - 300	Leg	2 1/4	129	-76.53	130.60	58.6	Pass
T5	300 - 280	Leg	2 1/4	171	-69.42	130.60	53.2	Pass
T6	280 - 260	Leg	2 1/4	212	-58.81	130.60	45.0	Pass
T7	260 - 240	Leg	2 1/4	254	-61.30	130.60	46.9	Pass
T8	240 - 220	Leg	2 1/4	296	-51.71	130.60	39.6	Pass

Section No.	Elevation (ft)	Component Type	Size	Critical Element	P (k)	ϕP_{allow} (k)	% Capacity	Pass / Fail
T9	220 - 200	Leg	2 1/4	339	-52.55	130.60	40.2	Pass
T10	200 - 180	Leg	2 1/4	381	-55.51	130.60	42.5	Pass
T11	180 - 160	Leg	2 1/4	423	-61.16	130.60	46.8	Pass
T12	160 - 140	Leg	2 1/4	465	-61.88	130.60	47.4	Pass
T13	140 - 120	Leg	2 1/4	506	-61.24	130.60	46.9	Pass
T14	120 - 100	Leg	2 1/4	547	-64.55	130.60	49.4	Pass
T15	100 - 80	Leg	2 1/4	589	-64.65	130.60	49.5	Pass
T16	80 - 60	Leg	2 1/4	631	-64.37	130.60	49.3	Pass
T17	60 - 40	Leg	2 1/4	673	-66.11	130.60	50.6	Pass
T18	40 - 20	Leg	2 1/4	715	-67.46	130.60	51.7	Pass
T19	20 - 6.5625	Leg	2 1/4	758	-67.34	130.25	51.7	Pass
T20	6.5625 - 0	Leg	2 1/4	787	-69.50	157.76	44.1	Pass
T1	380 - 360	Diagonal	1 1/4	36	-6.57	21.02	31.3	Pass
T2	360 - 340	Diagonal	1 1/4	83	-2.24	21.02	10.6	Pass
T3	340 - 320	Diagonal	1	96	-4.61	9.28	49.7	Pass
T4	320 - 300	Diagonal	1 1/4	156	-5.46	21.45	25.5	Pass
T5	300 - 280	Diagonal	1	208	-3.13	9.42	33.2	Pass
T6	280 - 260	Diagonal	1	250	-2.10	9.42	22.3	Pass
T7	260 - 240	Diagonal	1	263	-4.10	9.42	43.5	Pass
T8	240 - 220	Diagonal	1	336	-3.77	9.42	40.0	Pass
T9	220 - 200	Diagonal	1	348	-2.40	9.42	25.5	Pass
T10	200 - 180	Diagonal	1	394	-3.42	9.42	36.3	Pass
T11	180 - 160	Diagonal	1	460	-3.06	9.42	32.5	Pass
T12	160 - 140	Diagonal	1	473	-2.02	9.42	21.5	Pass
T13	140 - 120	Diagonal	1	527	-2.96	9.42	31.4	Pass
T14	120 - 100	Diagonal	1	586	-2.11	9.42	22.4	Pass
T15	100 - 80	Diagonal	1	598	-2.66	9.42	28.2	Pass
T16	80 - 60	Diagonal	1	642	-3.51	9.42	37.2	Pass
T17	60 - 40	Diagonal	1	714	-3.30	9.42	35.0	Pass
T18	40 - 20	Diagonal	1	756	-2.12	9.42	22.5	Pass
T19	20 - 6.5625	Diagonal	1 1/4	766	-2.62	21.39	12.3	Pass
T1	380 - 360	Horizontal	7/8	19	-6.94	10.87	63.9	Pass
T2	360 - 340	Horizontal	7/8	69	-0.59	10.87	5.4	Pass
T3	340 - 320	Horizontal	7/8	98	-1.07	10.97	9.7	Pass
T4	320 - 300	Horizontal	7/8	145	-6.23	11.07	56.2	Pass
T5	300 - 280	Horizontal	7/8	188	-1.38	11.07	12.4	Pass
T6	280 - 260	Horizontal	7/8	229	-1.14	11.07	10.3	Pass
T7	260 - 240	Horizontal	7/8	265	-1.19	11.07	10.7	Pass
T8	240 - 220	Horizontal	7/8	309	-1.04	11.07	9.4	Pass
T9	220 - 200	Horizontal	7/8	356	-1.02	11.07	9.2	Pass
T10	200 - 180	Horizontal	7/8	392	-1.10	11.07	9.9	Pass
T11	180 - 160	Horizontal	7/8	434	-1.20	11.07	10.8	Pass
T12	160 - 140	Horizontal	7/8	476	-1.20	11.07	10.8	Pass
T13	140 - 120	Horizontal	7/8	518	-1.20	11.07	10.9	Pass

Section No.	Elevation (ft)	Component Type	Size	Critical Element	P (k)	ϕP_{allow} (k)	% Capacity	Pass / Fail
T14	120 - 100	Horizontal	7/8	561	-1.26	11.07	11.4	Pass
T15	100 - 80	Horizontal	7/8	609	-1.26	11.07	11.4	Pass
T16	80 - 60	Horizontal	7/8	645	-1.25	11.07	11.2	Pass
T17	60 - 40	Horizontal	7/8	699	-1.29	11.07	11.6	Pass
T18	40 - 20	Horizontal	7/8	729	-1.31	11.07	11.8	Pass
T19	20 - 6.5625	Horizontal	7/8	777	-1.31	11.07	11.9	Pass
T20	6.5625 - 0	Horizontal	9x3/8	798	-1.23	20.11	6.1	Pass
T1	380 - 360	Top Girt	7/8	6	-0.79	10.87	7.2	Pass
T2	360 - 340	Top Girt	7/8	46	-0.96	10.87	8.8	Pass
T3	340 - 320	Top Girt	7/8	89	-1.07	10.97	9.7	Pass
T4	320 - 300	Top Girt	7/8	131	-1.48	11.07	13.4	Pass
T5	300 - 280	Top Girt	7/8	173	-1.38	11.07	12.4	Pass
T6	280 - 260	Top Girt	7/8	214	-1.14	11.07	10.3	Pass
T7	260 - 240	Top Girt	7/8	256	-1.19	11.07	10.7	Pass
T8	240 - 220	Top Girt	7/8	300	-1.04	11.07	9.4	Pass
T9	220 - 200	Top Girt	7/8	341	-1.02	11.07	9.2	Pass
T10	200 - 180	Top Girt	7/8	383	-1.10	11.07	9.9	Pass
T11	180 - 160	Top Girt	7/8	425	-1.20	11.07	10.8	Pass
T12	160 - 140	Top Girt	7/8	467	-1.20	11.07	10.8	Pass
T13	140 - 120	Top Girt	7/8	509	-1.20	11.07	10.9	Pass
T14	120 - 100	Top Girt	7/8	552	-1.26	11.07	11.4	Pass
T15	100 - 80	Top Girt	7/8	594	-1.26	11.07	11.4	Pass
T16	80 - 60	Top Girt	7/8	636	-1.25	11.07	11.2	Pass
T17	60 - 40	Top Girt	7/8	678	-1.29	11.07	11.6	Pass
T18	40 - 20	Top Girt	7/8	720	-1.31	11.07	11.8	Pass
T19	20 - 6.5625	Top Girt	7/8	762	-1.31	11.07	11.9	Pass
T20	6.5625 - 0	Top Girt	12x3/8	792	-1.23	11.29	10.9	Pass
T1	380 - 360	Bottom Girt	7/8	8	-0.67	10.87	6.2	Pass
T2	360 - 340	Bottom Girt	7/8	51	-0.59	10.87	5.4	Pass
T3	340 - 320	Bottom Girt	7/8	92	-1.07	10.97	9.7	Pass
T4	320 - 300	Bottom Girt	7/8	134	-1.48	11.07	13.4	Pass
T5	300 - 280	Bottom Girt	7/8	176	-1.38	11.07	12.4	Pass
T6	280 - 260	Bottom Girt	7/8	217	-1.14	11.07	10.3	Pass
T7	260 - 240	Bottom Girt	7/8	259	-1.19	11.07	10.7	Pass
T8	240 - 220	Bottom Girt	7/8	303	-1.04	11.07	9.4	Pass
T9	220 - 200	Bottom Girt	7/8	344	-1.02	11.07	9.2	Pass
T10	200 - 180	Bottom Girt	7/8	386	-1.10	11.07	9.9	Pass
T11	180 - 160	Bottom Girt	7/8	428	-1.20	11.07	10.8	Pass
T12	160 - 140	Bottom Girt	7/8	470	-1.20	11.07	10.8	Pass
T13	140 - 120	Bottom Girt	7/8	512	-1.20	11.07	10.9	Pass
T14	120 - 100	Bottom Girt	7/8	555	-1.26	11.07	11.4	Pass
T15	100 - 80	Bottom Girt	7/8	597	-1.26	11.07	11.4	Pass
T16	80 - 60	Bottom Girt	7/8	639	-1.25	11.07	11.2	Pass
T17	60 - 40	Bottom Girt	7/8	681	-1.29	11.07	11.6	Pass

Section No.	Elevation (ft)	Component Type	Size	Critical Element	P (k)	ϕP_{allow} (k)	% Capacity	Pass / Fail
T18	40 - 20	Bottom Girt	7/8	723	-1.31	11.07	11.8	Pass
T19	20 - 6.5825	Bottom Girt	7/8	765	-1.31	11.07	11.9	Pass
T1	380 - 360	Guy A@366.694	5/8	807	14.30	26.71	53.5	Pass
T4	320 - 300	Guy A@306.694	5/8	819	11.97	26.71	44.8	Pass
T7	260 - 240	Guy A@246.694	5/8	828	12.27	26.71	45.9	Pass
T10	200 - 180	Guy A@186.694	1/2	834	9.42	16.95	55.6	Pass
T13	140 - 120	Guy A@126.694	7/16	840	7.30	13.10	55.7	Pass
T16	80 - 60	Guy A@66.6944	9/16	846	8.90	22.05	40.4	Pass
T1	380 - 360	Guy B@366.694	5/8	803	13.99	26.71	52.4	Pass
T4	320 - 300	Guy B@306.694	5/8	815	11.35	26.71	42.5	Pass
T7	260 - 240	Guy B@246.694	5/8	827	10.89	26.71	40.8	Pass
T10	200 - 180	Guy B@186.694	1/2	833	8.14	16.95	48.0	Pass
T13	140 - 120	Guy B@126.694	7/16	839	6.48	13.10	49.4	Pass
T16	80 - 60	Guy B@66.6944	9/16	845	8.22	22.05	37.3	Pass
T1	380 - 360	Guy C@366.694	5/8	800	14.06	26.71	52.6	Pass
T4	320 - 300	Guy C@306.694	5/8	812	11.46	26.71	42.9	Pass
T7	260 - 240	Guy C@246.694	5/8	823	10.97	26.71	41.1	Pass
T10	200 - 180	Guy C@186.694	1/2	829	8.18	16.95	48.3	Pass
T13	140 - 120	Guy C@126.694	7/16	835	6.57	13.10	50.1	Pass
T16	80 - 60	Guy C@66.6944	9/16	841	8.37	22.05	38.0	Pass
T7	260 - 240	Top Guy Pull-Off@246.694	3x3/8	825	3.63	38.27	9.5	Pass
T10	200 - 180	Top Guy Pull-Off@186.694	3x3/8	831	3.15	38.27	8.2	Pass
T13	140 - 120	Top Guy Pull-Off@126.694	3x3/8	837	2.68	38.27	7.0	Pass
T16	80 - 60	Top Guy Pull-Off@66.6944	3x3/8	843	3.42	38.27	8.9	Pass
T1	380 - 360	Torque Arm Top@366.694	C12x20.7	802	-2.59	180.80	54.5	Pass
T4	320 - 300	Torque Arm Top@306.694	C12x20.7	814	-1.92	181.10	41.7	Pass
							Summary	
							Leg (T4)	58.6 Pass
							Diagonal (T3)	49.7 Pass
							Horizontal (T1)	63.9 Pass
							Top Girt (T4)	13.4 Pass
							Bottom Girt (T4)	13.4 Pass
							Guy A (T13)	55.7 Pass
							Guy B (T1)	52.4 Pass
							Guy C (T1)	52.6 Pass
							Top Guy Pull-Off (T7)	9.5 Pass

Section No.	Elevation (ft)	Component Type	Size	Critical Element	P (k)	ϕP_{allow} (k)	% Capacity	Pass / Fail
						Torque Arm Top (T1)	54.5	Pass
						Bolt Checks	25.0	Pass
						RATING =	63.9	Pass

Table 5 - Tower Component Stresses vs. Capacity - LC5

Notes	Component	Elevation (ft)	% Capacity	Pass / Fail
1,2	Mast Foundation Structural	-	21.9	Pass
1,2	Mast Foundation Soil Interaction	-	53.0	Pass
1,2	Guy Anchor Shaft	-	52.1	Pass
1,2	Guy Anchor Structural	-	25.4	Pass
1,2	Guy Anchor Soil Interaction	-	66.1	Pass

Structure Rating (max from all components) =	66.1%
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Notes:

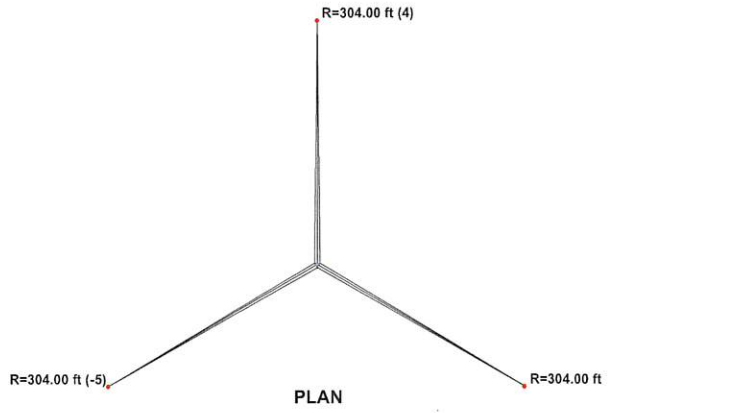
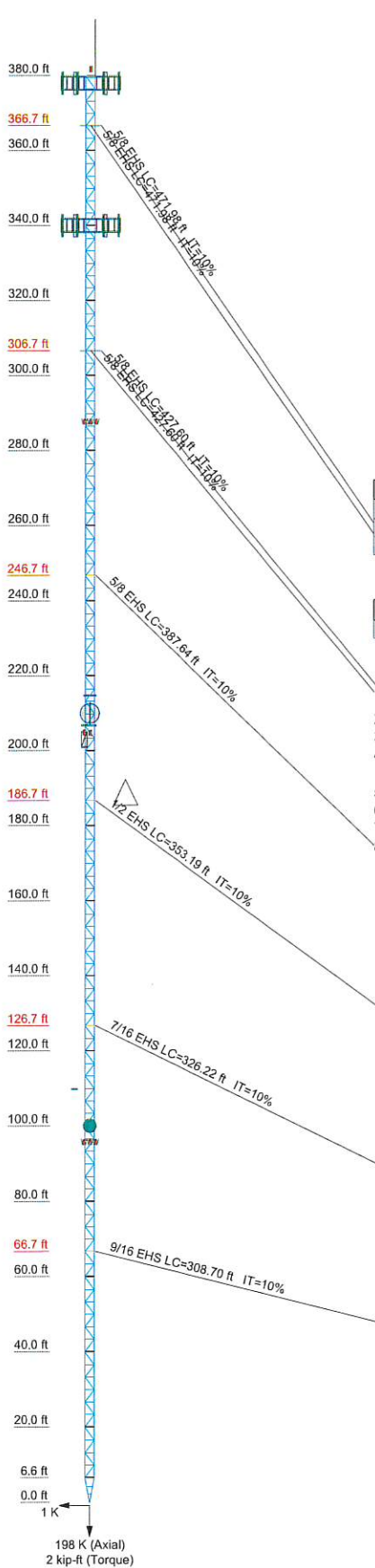
- 1) See additional documentation in "Appendix C - Additional Calculations" for calculations supporting the % capacity listed.
- 2) Rating per TIA-222-H Section 15.5

4.1) Recommendations

- 1) The tower and its base and anchor foundations have sufficient capacity to carry the proposed load configuration. No modifications are required at this time.

APPENDIX A
TNXTOWER OUTPUT

Section	T20	T19	T18	T17	T16	T15	T14	T13	T12	T11	T10	T9	T8	T7	T6	T5	T4	T3	T2	T1	
Legs																					
Leg Grade																					
Diagonals	B	A																			
Diagonal Grade	B																				
Top Girts	C																				
Bottom Girts	B																				
Horizontals	D																				
Top Guy Pull-Offs																					
Face Width (ft)	F	E																			
# Panels @ (ft)	22.7	0.5																			
Weight (K)																					



SYMBOL LIST

MARK	SIZE	MARK	SIZE
A	SR 1 1/4	D	9x3/8
B	N.A.	E	4 @ 3.31771
C	12x3/8	F	3 @ 2.13194


MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A572-50	50 ksi	65 ksi	A36	36 ksi	58 ksi

- TOWER DESIGN NOTES**
1. Tower is located in Yankton County, South Dakota.
 2. Tower designed for Exposure C to the TIA-222-H Standard.
 3. Tower designed for a 113 mph basic wind in accordance with the TIA-222-H Standard.
 4. Tower is also designed for a 50 mph basic wind with 1.00 in ice. Ice is considered to increase in thickness with height.
 5. Deflections are based upon a 60 mph wind.
 6. Tower Risk Category II.
 7. Topographic Category 1 with Crest Height of 0.00 ft
 8. TOWER RATING: 63.9%



ALL REACTIONS ARE FACTORED

 Tower Engineering Professionals	Tower Engineering Professionals	Tower Engineering Professionals	Tower Engineering Professionals	Tower Engineering Professionals
	Tower Engineering Professionals			
	326 Tryon Road			
	Raleigh, NC 27603			
	Phone: (919) 661-6351			
FAX: (919) 661-6350				
		Job: <u>Zod Alltel SD09 Tabor (BU 857981)</u>		
		Project: TEP No. 56544.700659		
Client: Crown Castle		Drawn by: myoung		
Code: TIA-222-H		Date: 05/19/22		
Path:		G:\Users\myoung.TOWER\Desktop\Tnx\857981-ZOD Alltel SD09 Tabor\857981_2111213_LCS.dwg		
		App'd:		
		Scale: NTS		
		Dwg No. E-1		

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Tower Input Data

The main tower is a 3x guyed tower with an overall height of 380.00 ft above the ground line.

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

The face width of the tower is 3.00 ft at the top and tapered at the base.

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

The following design criteria apply:

Tower is located in Yankton County, South Dakota.

Tower base elevation above sea level: 1495.00 ft.

Basic wind speed of 113 mph.

Risk Category II.

Exposure Category C.

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

Topographic Category: 1.

Crest Height: 0.00 ft.

Nominal ice thickness of 1.0000 in.

Ice thickness is considered to increase with height.

Ice density of 56 pcf.

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

Temperature drop of 50 °F.

Deflections calculated using a wind speed of 60 mph.

Pressures are calculated at each section.

Stress ratio used in tower member design is 1.

Safety factor used in guy design is 1.

Tower analysis based on target reliabilities in accordance with Annex S.

Load Modification Factors used: $K_{es}(F_w) = 0.95$, $K_{es}(t_i) = 0.85$.

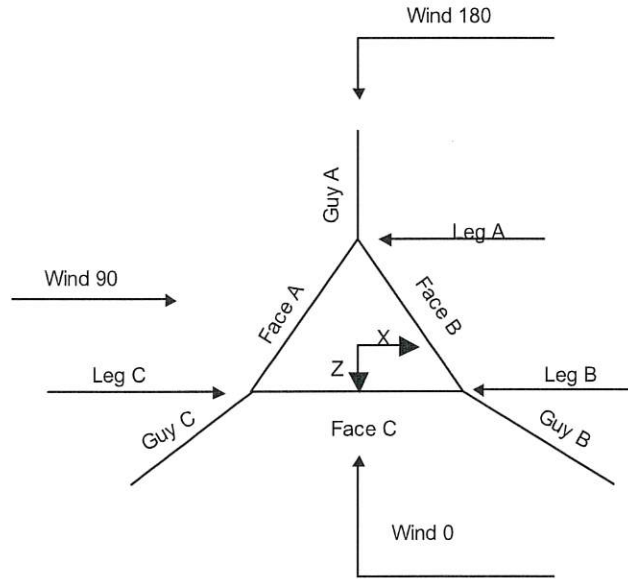
Maximum demand-capacity ratio is: 1.05.

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

Options

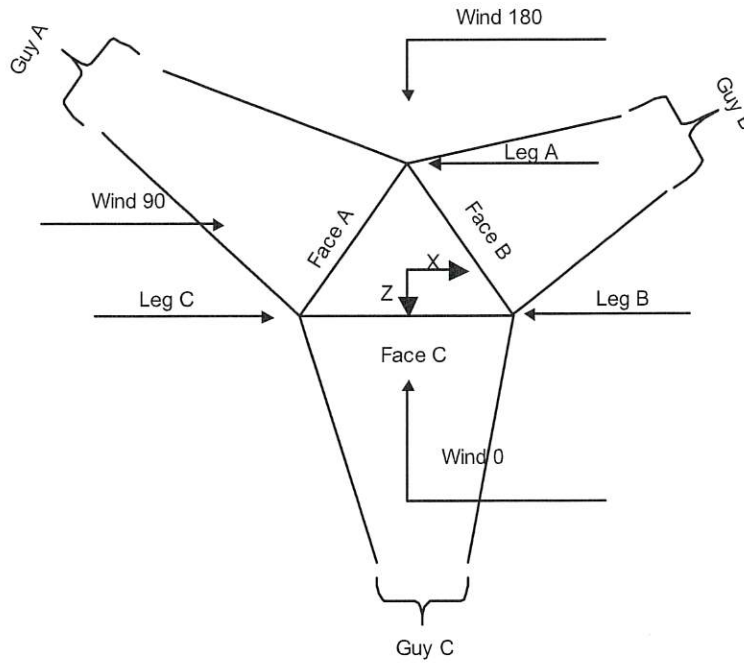
- | | | |
|--|---|---|
| <ul style="list-style-type: none"> Consider Moments - Legs Consider Moments - Horizontals Consider Moments - Diagonals Use Moment Magnification √ Use Code Stress Ratios √ Use Code Safety Factors - Guys Escalate Ice Always Use Max Kz Use Special Wind Profile Include Bolts In Member Capacity Leg Bolts Are At Top Of Section √ Secondary Horizontal Braces Leg Use Diamond Inner Bracing (4 Sided) √ SR Members Have Cut Ends SR Members Are Concentric | <ul style="list-style-type: none"> Distribute Leg Loads As Uniform Assume Legs Pinned √ Assume Rigid Index Plate √ Use Clear Spans For Wind Area √ Use Clear Spans For KL/r √ Retension Guys To Initial Tension √ Bypass Mast Stability Checks √ Use Azimuth Dish Coefficients √ Project Wind Area of Appurt. √ Autocalc Torque Arm Areas Add IBC .6D+W Combination √ Sort Capacity Reports By Component Triangulate Diamond Inner Bracing Treat Feed Line Bundles As Cylinder Ignore KL/ry For 60 Deg. Angle Legs | <ul style="list-style-type: none"> Use ASCE 10 X-Brace Ly Rules √ Calculate Redundant Bracing Forces Ignore Redundant Members in FEA √ SR Leg Bolts Resist Compression All Leg Panels Have Same Allowable Offset Girt At Foundation √ Consider Feed Line Torque √ Include Angle Block Shear Check Use TIA-222-H Bracing Resist. Exemption Use TIA-222-H Tension Splice Exemption Poles Include Shear-Torsion Interaction Always Use Sub-Critical Flow Use Top Mounted Sockets Pole Without Linear Attachments Pole With Shroud Or No Appurtenances Outside and Inside Corner Radii Are Known |
|--|---|---|

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Corner & Starmount Guyed Tower

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Face Guyed

Tower Section Geometry

<i>Tower Section</i>	<i>Tower Elevation</i>	<i>Assembly Database</i>	<i>Description</i>	<i>Section Width</i>	<i>Number of Sections</i>	<i>Section Length</i>
	<i>ft</i>			<i>ft</i>		<i>ft</i>
T1	380.00-360.00			3.00	1	20.00
T2	360.00-340.00			3.00	1	20.00
T3	340.00-320.00			3.00	1	20.00
T4	320.00-300.00			3.00	1	20.00
T5	300.00-280.00			3.00	1	20.00
T6	280.00-260.00			3.00	1	20.00
T7	260.00-240.00			3.00	1	20.00
T8	240.00-220.00			3.00	1	20.00
T9	220.00-200.00			3.00	1	20.00
T10	200.00-180.00			3.00	1	20.00
T11	180.00-160.00			3.00	1	20.00
T12	160.00-140.00			3.00	1	20.00
T13	140.00-120.00			3.00	1	20.00
T14	120.00-100.00			3.00	1	20.00
T15	100.00-80.00			3.00	1	20.00
T16	80.00-60.00			3.00	1	20.00

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Tower Section	Tower Elevation	Assembly Database	Description	Section Width	Number of Sections	Section Length
	ft			ft		ft
T17	60.00-40.00			3.00	1	20.00
T18	40.00-20.00			3.00	1	20.00
T19	20.00-6.56			3.00	1	13.44
T20	6.56-0.00			3.00	1	6.56

Tower Section Geometry (cont'd)

Tower Section	Tower Elevation	Diagonal Spacing	Bracing Type	Has K Brace End Panels	Has Horizontals	Top Girt Offset	Bottom Girt Offset
	ft	ft				in	in
T1	380.00-360.00	3.31	K Brace Left	No	Yes	1.0000	1.0000
T2	360.00-340.00	3.31	K Brace Left	No	Yes	1.0000	1.0000
T3	340.00-320.00	3.31	K Brace Left	No	Yes	1.0000	1.0000
T4	320.00-300.00	3.31	K Brace Left	No	Yes	1.0000	1.0000
T5	300.00-280.00	3.31	K Brace Left	No	Yes	1.0000	1.0000
T6	280.00-260.00	3.31	K Brace Left	No	Yes	1.0000	1.0000
T7	260.00-240.00	3.31	K Brace Left	No	Yes	1.0000	1.0000
T8	240.00-220.00	3.31	K Brace Left	No	Yes	1.0000	1.0000
T9	220.00-200.00	3.31	K Brace Left	No	Yes	1.0000	1.0000
T10	200.00-180.00	3.31	K Brace Left	No	Yes	1.0000	1.0000
T11	180.00-160.00	3.31	K Brace Left	No	Yes	1.0000	1.0000
T12	160.00-140.00	3.31	K Brace Left	No	Yes	1.0000	1.0000
T13	140.00-120.00	3.31	K Brace Left	No	Yes	1.0000	1.0000
T14	120.00-100.00	3.31	K Brace Left	No	Yes	1.0000	1.0000
T15	100.00-80.00	3.31	K Brace Left	No	Yes	1.0000	1.0000
T16	80.00-60.00	3.31	K Brace Left	No	Yes	1.0000	1.0000
T17	60.00-40.00	3.31	K Brace Left	No	Yes	1.0000	1.0000
T18	40.00-20.00	3.31	K Brace Left	No	Yes	1.0000	1.0000
T19	20.00-6.56	3.32	K Brace Left	No	Yes	1.0000	1.0000
T20	6.56-0.00	2.13	X Brace	No	Yes	1.0000	1.0000

Tower Section Geometry (cont'd)

Tower Elevation	Leg Type	Leg Size	Leg Grade	Diagonal Type	Diagonal Size	Diagonal Grade
ft						
T1 380.00-360.00	Solid Round	1 3/4	A572-50 (50 ksi)	Solid Round	1 1/4	A36 (36 ksi)
T2 360.00-340.00	Solid Round	1 3/4	A572-50 (50 ksi)	Solid Round	1 1/4	A36 (36 ksi)
T3 340.00-320.00	Solid Round	2	A572-50 (50 ksi)	Solid Round	1	A36 (36 ksi)
T4 320.00-300.00	Solid Round	2 1/4	A572-50 (50 ksi)	Solid Round	1 1/4	A36 (36 ksi)
T5 300.00-280.00	Solid Round	2 1/4	A572-50 (50 ksi)	Solid Round	1	A36 (36 ksi)
T6 280.00-260.00	Solid Round	2 1/4	A572-50 (50 ksi)	Solid Round	1	A36 (36 ksi)
T7 260.00-240.00	Solid Round	2 1/4	A572-50 (50 ksi)	Solid Round	1	A36 (36 ksi)
T8 240.00-220.00	Solid Round	2 1/4	A572-50	Solid Round	1	A36

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Tower Elevation ft	Leg Type	Leg Size	Leg Grade	Diagonal Type	Diagonal Size	Diagonal Grade
T9 220.00-200.00	Solid Round	2 1/4	(50 ksi) A572-50	Solid Round	1	(36 ksi) A36
T10 200.00-180.00	Solid Round	2 1/4	(50 ksi) A572-50	Solid Round	1	(36 ksi) A36
T11 180.00-160.00	Solid Round	2 1/4	(50 ksi) A572-50	Solid Round	1	(36 ksi) A36
T12 160.00-140.00	Solid Round	2 1/4	(50 ksi) A572-50	Solid Round	1	(36 ksi) A36
T13 140.00-120.00	Solid Round	2 1/4	(50 ksi) A572-50	Solid Round	1	(36 ksi) A36
T14 120.00-100.00	Solid Round	2 1/4	(50 ksi) A572-50	Solid Round	1	(36 ksi) A36
T15 100.00-80.00	Solid Round	2 1/4	(50 ksi) A572-50	Solid Round	1	(36 ksi) A36
T16 80.00-60.00	Solid Round	2 1/4	(50 ksi) A572-50	Solid Round	1	(36 ksi) A36
T17 60.00-40.00	Solid Round	2 1/4	(50 ksi) A572-50	Solid Round	1	(36 ksi) A36
T18 40.00-20.00	Solid Round	2 1/4	(50 ksi) A572-50	Solid Round	1	(36 ksi) A36
T19 20.00-6.56	Solid Round	2 1/4	(50 ksi) A572-50	Solid Round	1 1/4	(36 ksi) A36
T20 6.56-0.00	Solid Round	2 1/4	(50 ksi) A572-50	Solid Round		(36 ksi) A36

Tower Section Geometry (cont'd)

Tower Elevation ft	Top Girt Type	Top Girt Size	Top Girt Grade	Bottom Girt Type	Bottom Girt Size	Bottom Girt Grade
T1 380.00-360.00	Solid Round	7/8	A36 (36 ksi)	Solid Round	7/8	A36 (36 ksi)
T2 360.00-340.00	Solid Round	7/8	A36 (36 ksi)	Solid Round	7/8	A36 (36 ksi)
T3 340.00-320.00	Solid Round	7/8	A36 (36 ksi)	Solid Round	7/8	A36 (36 ksi)
T4 320.00-300.00	Solid Round	7/8	A36 (36 ksi)	Solid Round	7/8	A36 (36 ksi)
T5 300.00-280.00	Solid Round	7/8	A36 (36 ksi)	Solid Round	7/8	A36 (36 ksi)
T6 280.00-260.00	Solid Round	7/8	A36 (36 ksi)	Solid Round	7/8	A36 (36 ksi)
T7 260.00-240.00	Solid Round	7/8	A36 (36 ksi)	Solid Round	7/8	A36 (36 ksi)
T8 240.00-220.00	Solid Round	7/8	A36 (36 ksi)	Solid Round	7/8	A36 (36 ksi)
T9 220.00-200.00	Solid Round	7/8	A36 (36 ksi)	Solid Round	7/8	A36 (36 ksi)
T10 200.00-180.00	Solid Round	7/8	A36 (36 ksi)	Solid Round	7/8	A36 (36 ksi)
T11 180.00-160.00	Solid Round	7/8	A36 (36 ksi)	Solid Round	7/8	A36 (36 ksi)
T12 160.00-140.00	Solid Round	7/8	A36 (36 ksi)	Solid Round	7/8	A36 (36 ksi)
T13 140.00-120.00	Solid Round	7/8	A36 (36 ksi)	Solid Round	7/8	A36 (36 ksi)

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Tower Elevation ft	Top Girt Type	Top Girt Size	Top Girt Grade	Bottom Girt Type	Bottom Girt Size	Bottom Girt Grade
140.00-120.00 T14	Solid Round	7/8	(36 ksi) A36	Solid Round	7/8	(36 ksi) A36
120.00-100.00 T15	Solid Round	7/8	(36 ksi) A36	Solid Round	7/8	(36 ksi) A36
100.00-80.00 T16	Solid Round	7/8	(36 ksi) A36	Solid Round	7/8	(36 ksi) A36
80.00-60.00 T17	Solid Round	7/8	(36 ksi) A36	Solid Round	7/8	(36 ksi) A36
60.00-40.00 T18	Solid Round	7/8	(36 ksi) A36	Solid Round	7/8	(36 ksi) A36
40.00-20.00 T19	Solid Round	7/8	(36 ksi) A36	Solid Round	7/8	(36 ksi) A36
20.00-6.56 T20	Solid Round	7/8	(36 ksi) A36	Solid Round	7/8	(36 ksi) A36
6.56-0.00	Flat Bar	12x3/8	(36 ksi) A36	Flat Bar	12x3/8	(36 ksi) A36

Tower Section Geometry (cont'd)

Tower Elevation ft	No. of Mid Girts	Mid Girt Type	Mid Girt Size	Mid Girt Grade	Horizontal Type	Horizontal Size	Horizontal Grade
T1 380.00-360.00	None	Flat Bar		A36 (36 ksi)	Solid Round	7/8	A36 (36 ksi)
T2 360.00-340.00	None	Flat Bar		A36 (36 ksi)	Solid Round	7/8	A36 (36 ksi)
T3 340.00-320.00	None	Flat Bar		A36 (36 ksi)	Solid Round	7/8	A36 (36 ksi)
T4 320.00-300.00	None	Flat Bar		A36 (36 ksi)	Solid Round	7/8	A36 (36 ksi)
T5 300.00-280.00	None	Flat Bar		A36 (36 ksi)	Solid Round	7/8	A36 (36 ksi)
T6 280.00-260.00	None	Flat Bar		A36 (36 ksi)	Solid Round	7/8	A36 (36 ksi)
T7 260.00-240.00	None	Flat Bar		A36 (36 ksi)	Solid Round	7/8	A36 (36 ksi)
T8 240.00-220.00	None	Flat Bar		A36 (36 ksi)	Solid Round	7/8	A36 (36 ksi)
T9 220.00-200.00	None	Flat Bar		A36 (36 ksi)	Solid Round	7/8	A36 (36 ksi)
T10 200.00-180.00	None	Flat Bar		A36 (36 ksi)	Solid Round	7/8	A36 (36 ksi)
T11 180.00-160.00	None	Flat Bar		A36 (36 ksi)	Solid Round	7/8	A36 (36 ksi)
T12 160.00-140.00	None	Flat Bar		A36 (36 ksi)	Solid Round	7/8	A36 (36 ksi)
T13 140.00-120.00	None	Flat Bar		A36 (36 ksi)	Solid Round	7/8	A36 (36 ksi)
T14 120.00-100.00	None	Flat Bar		A36 (36 ksi)	Solid Round	7/8	A36 (36 ksi)
T15 100.00-80.00	None	Flat Bar		A36 (36 ksi)	Solid Round	7/8	A36 (36 ksi)
T16 80.00-60.00	None	Flat Bar		A36 (36 ksi)	Solid Round	7/8	A36 (36 ksi)
T17 60.00-40.00	None	Flat Bar		A36 (36 ksi)	Solid Round	7/8	A36 (36 ksi)

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Tower Elevation ft	No. of Mid Girts	Mid Girt Type	Mid Girt Size	Mid Girt Grade	Horizontal Type	Horizontal Size	Horizontal Grade
T18 40.00-20.00	None	Flat Bar		A36 (36 ksi)	Solid Round	7/8	A36 (36 ksi)
T19 20.00-6.56	None	Flat Bar		A36 (36 ksi)	Solid Round	7/8	A36 (36 ksi)
T20 6.56-0.00	None	Flat Bar		A36 (36 ksi)	Flat Bar	9x3/8	A36 (36 ksi)

Tower Section Geometry (cont'd)

Tower Elevation ft	Gusset Area (per face) ft ²	Gusset Thickness in	Gusset Grade	Adjust. Factor A _f	Adjust. Factor A _e	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontals in	Double Angle Stitch Bolt Spacing Redundants in
T1	0.00	0.0000	A36 (36 ksi)	1	1	1	Mid-Pt	Mid-Pt	Mid-Pt
T2	0.00	0.0000	A36 (36 ksi)	1	1	1	Mid-Pt	Mid-Pt	Mid-Pt
T3	0.00	0.0000	A36 (36 ksi)	1	1	1	Mid-Pt	Mid-Pt	Mid-Pt
T4	0.00	0.0000	A36 (36 ksi)	1	1	1	Mid-Pt	Mid-Pt	Mid-Pt
T5	0.00	0.0000	A36 (36 ksi)	1	1	1	Mid-Pt	Mid-Pt	Mid-Pt
T6	0.00	0.0000	A36 (36 ksi)	1	1	1	Mid-Pt	Mid-Pt	Mid-Pt
T7	0.00	0.0000	A36 (36 ksi)	1	1	1	Mid-Pt	Mid-Pt	Mid-Pt
T8	0.00	0.0000	A36 (36 ksi)	1	1	1	Mid-Pt	Mid-Pt	Mid-Pt
T9	0.00	0.0000	A36 (36 ksi)	1	1	1	Mid-Pt	Mid-Pt	Mid-Pt
T10	0.00	0.0000	A36 (36 ksi)	1	1	1	Mid-Pt	Mid-Pt	Mid-Pt
T11	0.00	0.0000	A36 (36 ksi)	1	1	1	Mid-Pt	Mid-Pt	Mid-Pt
T12	0.00	0.0000	A36 (36 ksi)	1	1	1	Mid-Pt	Mid-Pt	Mid-Pt
T13	0.00	0.0000	A36 (36 ksi)	1	1	1	Mid-Pt	Mid-Pt	Mid-Pt
T14	0.00	0.0000	A36 (36 ksi)	1	1	1	Mid-Pt	Mid-Pt	Mid-Pt
T15	0.00	0.0000	A36 (36 ksi)	1	1	1	Mid-Pt	Mid-Pt	Mid-Pt
T16	0.00	0.0000	A36 (36 ksi)	1	1	1	Mid-Pt	Mid-Pt	Mid-Pt
T17	0.00	0.0000	A36 (36 ksi)	1	1	1	Mid-Pt	Mid-Pt	Mid-Pt
T18	0.00	0.0000	A36 (36 ksi)	1	1	1	Mid-Pt	Mid-Pt	Mid-Pt
T19	0.00	0.0000	A36 (36 ksi)	1	1	1	Mid-Pt	Mid-Pt	Mid-Pt
T20	0.00	0.0000	A36 (36 ksi)	1	1	1	Mid-Pt	Mid-Pt	Mid-Pt

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Tower Section Geometry (cont'd)

Tower Elevation	Calc K Single Angles	Calc K Solid Rounds	Legs	K Factors ¹							
				X Brace Diags	K Brace Diags	Single Diags	Girts	Horiz.	Sec. Horiz.	Inner Brace	
											X Y
ft											
T1	No	Yes	1	1	1	1	1	1	1	1	1
380.00-360.00				1	1	1	1	1	1	1	1
T2	No	Yes	1	1	1	1	1	1	1	1	1
360.00-340.00				1	1	1	1	1	1	1	1
T3	No	Yes	1	1	1	1	1	1	1	1	1
340.00-320.00				1	1	1	1	1	1	1	1
T4	No	Yes	1	1	1	1	1	1	1	1	1
320.00-300.00				1	1	1	1	1	1	1	1
T5	No	Yes	1	1	1	1	1	1	1	1	1
300.00-280.00				1	1	1	1	1	1	1	1
T6	No	Yes	1	1	1	1	1	1	1	1	1
280.00-260.00				1	1	1	1	1	1	1	1
T7	No	Yes	1	1	1	1	1	1	1	1	1
260.00-240.00				1	1	1	1	1	1	1	1
T8	No	Yes	1	1	1	1	1	1	1	1	1
240.00-220.00				1	1	1	1	1	1	1	1
T9	No	Yes	1	1	1	1	1	1	1	1	1
220.00-200.00				1	1	1	1	1	1	1	1
T10	No	Yes	1	1	1	1	1	1	1	1	1
200.00-180.00				1	1	1	1	1	1	1	1
T11	No	Yes	1	1	1	1	1	1	1	1	1
180.00-160.00				1	1	1	1	1	1	1	1
T12	No	Yes	1	1	1	1	1	1	1	1	1
160.00-140.00				1	1	1	1	1	1	1	1
T13	No	Yes	1	1	1	1	1	1	1	1	1
140.00-120.00				1	1	1	1	1	1	1	1
T14	No	Yes	1	1	1	1	1	1	1	1	1
120.00-100.00				1	1	1	1	1	1	1	1
T15	No	Yes	1	1	1	1	1	1	1	1	1
100.00-80.00				1	1	1	1	1	1	1	1
T16	No	Yes	1	1	1	1	1	1	1	1	1
80.00-60.00				1	1	1	1	1	1	1	1
T17	No	Yes	1	1	1	1	1	1	1	1	1
60.00-40.00				1	1	1	1	1	1	1	1
T18	No	Yes	1	1	1	1	1	1	1	1	1
40.00-20.00				1	1	1	1	1	1	1	1
T19	No	Yes	1	1	1	1	1	1	1	1	1
20.00-6.56				1	1	1	1	1	1	1	1
T20 6.56-0.00	No	Yes	1	1	1	1	1	1	1	1	1

¹Note: K factors are applied to member segment lengths. K-braces without inner supporting members will have the K factor in the out-of-plane direction applied to the overall length.

Tower Section Geometry (cont'd)

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Tower Elevation ft	Leg Connection Type	Leg		Diagonal		Top Girt		Bottom Girt		Mid Girt		Long Horizontal		Short Horizontal	
		Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.
T8 240.00-220.00	Flange	0.7500	3	0.6250	0	0.6250	0	0.6250	0	0.6250	0	0.6250	0	0.6250	0
		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T9 220.00-200.00	Flange	0.7500	3	0.6250	0	0.6250	0	0.6250	0	0.6250	0	0.6250	0	0.6250	0
		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T10 200.00-180.00	Flange	0.7500	3	0.6250	0	0.6250	0	0.6250	0	0.6250	0	0.6250	0	0.6250	0
		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T11 180.00-160.00	Flange	0.7500	3	0.6250	0	0.6250	0	0.6250	0	0.6250	0	0.6250	0	0.6250	0
		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T12 160.00-140.00	Flange	0.7500	3	0.6250	0	0.6250	0	0.6250	0	0.6250	0	0.6250	0	0.6250	0
		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T13 140.00-120.00	Flange	0.7500	3	0.6250	0	0.6250	0	0.6250	0	0.6250	0	0.6250	0	0.6250	0
		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T14 120.00-100.00	Flange	0.7500	3	0.6250	0	0.6250	0	0.6250	0	0.6250	0	0.6250	0	0.6250	0
		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T15 100.00-80.00	Flange	0.7500	3	0.6250	0	0.6250	0	0.6250	0	0.6250	0	0.6250	0	0.6250	0
		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T16 80.00-60.00	Flange	0.7500	3	0.6250	0	0.6250	0	0.6250	0	0.6250	0	0.6250	0	0.6250	0
		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T17 60.00-40.00	Flange	0.7500	3	0.6250	0	0.6250	0	0.6250	0	0.6250	0	0.6250	0	0.6250	0
		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T18 40.00-20.00	Flange	0.7500	3	0.6250	0	0.6250	0	0.6250	0	0.6250	0	0.6250	0	0.6250	0
		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T19 20.00-6.56	Flange	0.7500	0	0.6250	0	0.6250	0	0.6250	0	0.6250	0	0.6250	0	0.6250	0
		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T20 6.56-0.00	Flange	0.7500	0	0.6250	0	0.6250	0	0.6250	0	0.6250	0	0.6250	0	0.6250	0
		A325N		A325N		A325N		A325N		A325N		A325N		A325N	

Guy Data

Guy Elevation ft	Guy Grade	Guy Size	Initial Tension K	%	Guy Modulus ksi	Guy Weight plf	L _u ft	Anchor Radius ft	Anchor Azimuth Adj. °	Anchor Elevation ft	End Fitting Efficiency %	
366.694	EHS	A	5/8	4.24	10%	23000	0.813	471.66	304.00	0.0000	4.00	100%
		B	5/8	4.24	10%	23000	0.813	474.74	304.00	0.0000	0.00	100%
		C	5/8	4.24	10%	23000	0.813	478.61	304.00	0.0000	-5.00	100%
306.694	EHS	A	5/8	4.24	10%	23000	0.813	427.32	304.00	0.0000	4.00	100%
		B	5/8	4.24	10%	23000	0.813	430.15	304.00	0.0000	0.00	100%
		C	5/8	4.24	10%	23000	0.813	433.73	304.00	0.0000	-5.00	100%
246.694	EHS	A	5/8	4.24	10%	23000	0.813	387.38	304.00	0.0000	4.00	100%
		B	5/8	4.24	10%	23000	0.813	389.90	304.00	0.0000	0.00	100%
		C	5/8	4.24	10%	23000	0.813	393.08	304.00	0.0000	-5.00	100%
186.694	EHS	A	1/2	2.69	10%	23000	0.517	352.96	304.00	0.0000	4.00	100%
		B	1/2	2.69	10%	23000	0.517	355.04	304.00	0.0000	0.00	100%
		C	1/2	2.69	10%	23000	0.517	357.69	304.00	0.0000	-5.00	100%
126.694	EHS	A	7/16	2.08	10%	23000	0.399	326.01	304.00	0.0000	4.00	100%
		B	7/16	2.08	10%	23000	0.399	327.53	304.00	0.0000	0.00	100%
		C	7/16	2.08	10%	23000	0.399	329.50	304.00	0.0000	-5.00	100%
66.6944	EHS	A	9/16	3.50	10%	23000	0.671	308.50	304.00	0.0000	4.00	100%
		B	9/16	3.50	10%	23000	0.671	309.34	304.00	0.0000	0.00	100%
		C	9/16	3.50	10%	23000	0.671	310.45	304.00	0.0000	-5.00	100%

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Guy Data(cont'd)

Guy Elevation ft	Mount Type	Torque-Arm Spread ft	Torque-Arm Leg Angle °	Torque-Arm Style	Torque-Arm Grade	Torque-Arm Type	Torque-Arm Size
366.694	Torque Arm	6.90	0.0000	Channel	A36 (36 ksi)	Channel	C12x20.7
306.694	Torque Arm	6.90	0.0000	Channel	A36 (36 ksi)	Channel	C12x20.7
246.694	Corner						
186.694	Corner						
126.694	Corner						
66.6944	Corner						

Guy Data (cont'd)

Guy Elevation ft	Diagonal Grade	Diagonal Type	Upper Diagonal Size	Lower Diagonal Size	Is Strap.	Pull-Off Grade	Pull-Off Type	Pull-Off Size
366.69	A36 (36 ksi)	Solid Round				A36 (36 ksi)	Solid Round	
306.69	A36 (36 ksi)	Solid Round				A36 (36 ksi)	Solid Round	
246.69	A572-50 (50 ksi)	Solid Round			Yes	A36 (36 ksi)	Flat Bar	3x3/8
186.69	A572-50 (50 ksi)	Solid Round			Yes	A36 (36 ksi)	Flat Bar	3x3/8
126.69	A572-50 (50 ksi)	Solid Round			Yes	A36 (36 ksi)	Flat Bar	3x3/8
66.69	A572-50 (50 ksi)	Solid Round			Yes	A36 (36 ksi)	Flat Bar	3x3/8

Guy Data (cont'd)

Guy Elevation ft	Cable Weight A K	Cable Weight B K	Cable Weight C K	Cable Weight D K	Tower Intercept A ft	Tower Intercept B ft	Tower Intercept C ft	Tower Intercept D ft
366.694	0.38	0.39	0.39		20.63	20.90	21.23	
					7.8 sec/pulse	7.9 sec/pulse	8.0 sec/pulse	
306.694	0.35	0.35	0.35		17.03	17.25	17.53	
					7.1 sec/pulse	7.2 sec/pulse	7.2 sec/pulse	
246.694	0.31	0.32	0.32		14.08	14.25	14.48	
					6.5 sec/pulse	6.5 sec/pulse	6.6 sec/pulse	
186.694	0.18	0.18	0.18		11.78	11.91	12.09	
					5.9 sec/pulse	6.0 sec/pulse	6.0 sec/pulse	
126.694	0.13	0.13	0.13		10.09	10.18	10.29	
					5.5 sec/pulse	5.5 sec/pulse	5.5 sec/pulse	
66.6944	0.21	0.21	0.21		9.08	9.12	9.19	
					5.2 sec/pulse	5.2 sec/pulse	5.2 sec/pulse	

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Guy Data (cont'd)

Guy Elevation ft	Calc K Single Angles	Calc K Solid Rounds	Torque Arm		Pull Off		Diagonal	
			K _x	K _y	K _x	K _y	K _x	K _y
366.694	No	No	1	1	0.7	0.7	1	1
306.694	No	No	1	1	0.7	0.7	1	1
246.694	No	No			0.7	0.7	1	1
186.694	No	No			0.7	0.7	1	1
126.694	No	No			0.7	0.7	1	1
66.6944	No	No			0.7	0.7	1	1

Guy Data (cont'd)

Guy Elevation ft	Torque-Arm				Pull Off				Diagonal			
	Bolt Size in	Number	Net Width Deduct in	U	Bolt Size in	Number	Net Width Deduct in	U	Bolt Size in	Number	Net Width Deduct in	U
366.694	0.6250 A325N	8	0.0000	0.75	0.6250 A325N	0	0.0000	1	0.6250 A325N	0	0.0000	0.75
306.694	0.6250 A325N	8	0.0000	0.75	0.6250 A325N	0	0.0000	1	0.6250 A325N	0	0.0000	0.75
246.694	0.6250 A325N	0	0.0000	0.75	0.6250 A325N	0	0.0000	1	0.6250 A325N	0	0.0000	0.75
186.694	0.6250 A325N	0	0.0000	0.75	0.6250 A325N	0	0.0000	1	0.6250 A325N	0	0.0000	0.75
126.694	0.6250 A325N	0	0.0000	0.75	0.6250 A325N	0	0.0000	1	0.6250 A325N	0	0.0000	0.75
66.6944	0.6250 A325N	0	0.0000	0.75	0.6250 A325N	0	0.0000	1	0.6250 A325N	0	0.0000	0.75

Guy Pressures

Guy Elevation ft	Guy Location	z ft	q _z ksf	q _z Ice ksf	Ice Thickness in
366.694	A	185.35	0	0	1.0101
	B	183.35	0	0	1.0090
	C	180.85	0	0	1.0076
306.694	A	155.35	0	0	0.9924
	B	153.35	0	0	0.9911
	C	150.85	0	0	0.9895
246.694	A	125.35	0	0	0.9714
	B	123.35	0	0	0.9698
	C	120.85	0	0	0.9678
186.694	A	95.35	0	0	0.9451
	B	93.35	0	0	0.9431
	C	90.85	0	0	0.9406
126.694	A	65.35	0	0	0.9101
	B	63.35	0	0	0.9073
	C	60.85	0	0	0.9036

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Guy Elevation ft	Guy Location	z ft	qz ksf	qz Ice ksf	Ice Thickness in
66.6944	A	35.35	0	0	0.8559
	B	33.35	0	0	0.8509
	C	30.85	0	0	0.8443

Feed Line/Linear Appurtenances - Entered As Round Or Flat

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Face Offset in	Lateral Offset (Frac FW)	#	# Per Row	Clear Spacing in	Width or Diameter in	Perimeter in	Weight plf
misc1													
Safety Line 3/8	A	No	No	Ar (CaAa)	380.00 - 0.00	0.0000	-0.25	1	1	0.3750	0.3750		0.22
Sabre 3600 (3/4"Diam, 18"w, 6 per section)	A	No	No	Ar (CaAa)	380.00 - 0.00	0.0000	-0.25	1	1	0.7500	0.7500		0.68
1/2" Cable (Lights)	A	No	No	Ar (CaAa)	95.00 - 0.00	0.0000	0.48	4	4	0.5000	0.5000		0.40
1/2" Cable (Lights)	A	No	No	Ar (CaAa)	204.00 - 95.00	0.0000	0.48	3	3	0.5000	0.5000		0.40
1/2" Cable (Lights)	A	No	No	Ar (CaAa)	287.00 - 204.00	0.0000	0.48	2	2	0.5000	0.5000		0.40
1/2" Cable (Lights)	A	No	No	Ar (CaAa)	380.00 - 287.00	0.0000	0.48	1	1	0.5000	0.5000		0.40
Sabre 3600 Waveguide	A	No	No	Af (CaAa)	380.00 - 0.00	0.0000	0	1	1	1.9380	1.9380		0.82
Sabre 3600 Waveguide	B	No	No	Af (CaAa)	380.00 - 0.00	0.0000	0	1	1	1.9380	1.9380		0.82
Sabre 3600 Waveguide	C	No	No	Af (CaAa)	380.00 - 0.00	0.0000	0	1	1	1.9380	1.9380		0.82
Face B													
HCS 2.0 Part 3(1-1/2)	B	No	No	Ar (CaAa)	340.00 - 0.00	0.0000	0.3	2	2	0.5000	1.5500		1.71
Face C													
LDF7-50A(1-5/8)	C	No	No	Ar (CaAa)	378.00 - 0.00	0.0000	-0.05	9	6	0.5000	1.9800		0.82
WR-VG86T(3/4)	C	No	No	Ar (CaAa)	378.00 - 0.00	0.0000	0.28	4	3	0.5000	0.7560		0.53
FB-L98B-034-XXXXXX(3/8)	C	No	No	Ar (CaAa)	378.00 - 0.00	1.0000	0.3	1	1	0.3937	0.3937		0.05
EWP63-65(ELIPTICAL)	C	No	No	Ar (CaAa)	210.00 - 101.00	0.0000	0.15	1	1	0.5000	2.0100		0.51
EW63(ELLIPTICAL)	C	No	No	Ar (CaAa)	101.00 - 0.00	0.0000	0.15	2	2	0.5000	2.0100		0.51
**													

Feed Line/Linear Appurtenances - Entered As Area

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	C _A A _A ft ² /ft	Weight plf
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Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	C _A A _A ft ² /ft	Weight plf
**								

Feed Line/Linear Appurtenances Section Areas

Tower Section	Tower Elevation ft	Face	A _R ft ²	A _F ft ²	C _A A _A In Face ft ²	C _A A _A Out Face ft ²	Weight K
T1	380.00-360.00	A	0.000	0.000	9.710	0.000	0.04
		B	0.000	0.000	6.460	0.000	0.02
		C	0.000	0.000	44.688	0.000	0.19
T2	360.00-340.00	A	0.000	0.000	9.710	0.000	0.04
		B	0.000	0.000	6.460	0.000	0.02
		C	0.000	0.000	48.935	0.000	0.21
T3	340.00-320.00	A	0.000	0.000	9.710	0.000	0.04
		B	0.000	0.000	12.660	0.000	0.08
		C	0.000	0.000	48.935	0.000	0.21
T4	320.00-300.00	A	0.000	0.000	9.710	0.000	0.04
		B	0.000	0.000	12.660	0.000	0.08
		C	0.000	0.000	48.935	0.000	0.21
T5	300.00-280.00	A	0.000	0.000	10.060	0.000	0.05
		B	0.000	0.000	12.660	0.000	0.08
		C	0.000	0.000	48.935	0.000	0.21
T6	280.00-260.00	A	0.000	0.000	10.710	0.000	0.05
		B	0.000	0.000	12.660	0.000	0.08
		C	0.000	0.000	48.935	0.000	0.21
T7	260.00-240.00	A	0.000	0.000	10.710	0.000	0.05
		B	0.000	0.000	12.660	0.000	0.08
		C	0.000	0.000	48.935	0.000	0.21
T8	240.00-220.00	A	0.000	0.000	10.710	0.000	0.05
		B	0.000	0.000	12.660	0.000	0.08
		C	0.000	0.000	48.935	0.000	0.21
T9	220.00-200.00	A	0.000	0.000	10.910	0.000	0.05
		B	0.000	0.000	12.660	0.000	0.08
		C	0.000	0.000	50.945	0.000	0.21
T10	200.00-180.00	A	0.000	0.000	11.710	0.000	0.06
		B	0.000	0.000	12.660	0.000	0.08
		C	0.000	0.000	52.955	0.000	0.22
T11	180.00-160.00	A	0.000	0.000	11.710	0.000	0.06
		B	0.000	0.000	12.660	0.000	0.08
		C	0.000	0.000	52.955	0.000	0.22
T12	160.00-140.00	A	0.000	0.000	11.710	0.000	0.06
		B	0.000	0.000	12.660	0.000	0.08
		C	0.000	0.000	52.955	0.000	0.22
T13	140.00-120.00	A	0.000	0.000	11.710	0.000	0.06
		B	0.000	0.000	12.660	0.000	0.08
		C	0.000	0.000	52.955	0.000	0.22
T14	120.00-100.00	A	0.000	0.000	11.710	0.000	0.06
		B	0.000	0.000	12.660	0.000	0.08
		C	0.000	0.000	53.156	0.000	0.22
T15	100.00-80.00	A	0.000	0.000	12.460	0.000	0.06
		B	0.000	0.000	12.660	0.000	0.08
		C	0.000	0.000	56.975	0.000	0.23
T16	80.00-60.00	A	0.000	0.000	12.710	0.000	0.07
		B	0.000	0.000	12.660	0.000	0.08

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Tower Section	Tower Elevation ft	Face	A_R	A_F	$C_A A_A$ In Face	$C_A A_A$ Out Face	Weight K
			ft ²	ft ²	ft ²	ft ²	
T17	60.00-40.00	C	0.000	0.000	56.975	0.000	0.23
		A	0.000	0.000	12.710	0.000	0.07
		B	0.000	0.000	12.660	0.000	0.08
T18	40.00-20.00	C	0.000	0.000	56.975	0.000	0.23
		A	0.000	0.000	12.710	0.000	0.07
		B	0.000	0.000	12.660	0.000	0.08
T19	20.00-6.56	C	0.000	0.000	56.975	0.000	0.23
		A	0.000	0.000	8.540	0.000	0.04
		B	0.000	0.000	8.506	0.000	0.06
T20	6.56-0.00	C	0.000	0.000	38.280	0.000	0.15
		A	0.000	0.000	4.170	0.000	0.02
		B	0.000	0.000	4.154	0.000	0.03
		C	0.000	0.000	18.695	0.000	0.07

Feed Line/Linear Appurtenances Section Areas - With Ice

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A_R	A_F	$C_A A_A$ In Face	$C_A A_A$ Out Face	Weight K
				ft ²	ft ²	ft ²	ft ²	
T1	380.00-360.00	A	1.082	0.000	0.000	27.028	0.000	0.25
		B		0.000	0.000	10.790	0.000	0.10
		C		0.000	0.000	70.913	0.000	0.82
T2	360.00-340.00	A	1.076	0.000	0.000	26.932	0.000	0.25
		B		0.000	0.000	10.766	0.000	0.09
		C		0.000	0.000	77.464	0.000	0.90
T3	340.00-320.00	A	1.070	0.000	0.000	26.831	0.000	0.25
		B		0.000	0.000	27.800	0.000	0.27
		C		0.000	0.000	77.328	0.000	0.90
T4	320.00-300.00	A	1.063	0.000	0.000	26.725	0.000	0.24
		B		0.000	0.000	27.728	0.000	0.27
		C		0.000	0.000	77.185	0.000	0.89
T5	300.00-280.00	A	1.056	0.000	0.000	28.684	0.000	0.25
		B		0.000	0.000	27.650	0.000	0.27
		C		0.000	0.000	77.033	0.000	0.89
T6	280.00-260.00	A	1.049	0.000	0.000	32.390	0.000	0.27
		B		0.000	0.000	27.568	0.000	0.27
		C		0.000	0.000	76.871	0.000	0.88
T7	260.00-240.00	A	1.041	0.000	0.000	32.237	0.000	0.26
		B		0.000	0.000	27.481	0.000	0.27
		C		0.000	0.000	76.698	0.000	0.88
T8	240.00-220.00	A	1.032	0.000	0.000	32.073	0.000	0.26
		B		0.000	0.000	27.386	0.000	0.27
		C		0.000	0.000	76.512	0.000	0.87
T9	220.00-200.00	A	1.023	0.000	0.000	32.318	0.000	0.26
		B		0.000	0.000	27.285	0.000	0.26
		C		0.000	0.000	80.367	0.000	0.91
T10	200.00-180.00	A	1.013	0.000	0.000	33.817	0.000	0.28
		B		0.000	0.000	27.174	0.000	0.26
		C		0.000	0.000	84.163	0.000	0.95
T11	180.00-160.00	A	1.001	0.000	0.000	33.606	0.000	0.28
		B		0.000	0.000	27.051	0.000	0.26
		C		0.000	0.000	83.877	0.000	0.94
T12	160.00-140.00	A	0.989	0.000	0.000	33.372	0.000	0.27
		B		0.000	0.000	26.916	0.000	0.26
		C		0.000	0.000	83.560	0.000	0.93
T13	140.00-120.00	A	0.975	0.000	0.000	33.108	0.000	0.27
		B		0.000	0.000	26.763	0.000	0.25
		C		0.000	0.000	83.202	0.000	0.92

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Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A_R ft^2	A_F ft^2	$C_A A_A$ In Face ft^2	$C_A A_A$ Out Face ft^2	Weight K
T14	120.00-100.00	A	0.959	0.000	0.000	32.804	0.000	0.26
		B		0.000	0.000	26.587	0.000	0.25
		C		0.000	0.000	83.340	0.000	0.91
T15	100.00-80.00	A	0.940	0.000	0.000	34.131	0.000	0.28
		B		0.000	0.000	26.379	0.000	0.25
		C		0.000	0.000	93.248	0.000	0.96
T16	80.00-60.00	A	0.916	0.000	0.000	34.258	0.000	0.28
		B		0.000	0.000	26.125	0.000	0.24
		C		0.000	0.000	92.587	0.000	0.94
T17	60.00-40.00	A	0.886	0.000	0.000	33.695	0.000	0.27
		B		0.000	0.000	25.795	0.000	0.24
		C		0.000	0.000	91.728	0.000	0.92
T18	40.00-20.00	A	0.842	0.000	0.000	32.876	0.000	0.25
		B		0.000	0.000	25.315	0.000	0.23
		C		0.000	0.000	90.478	0.000	0.89
T19	20.00-6.56	A	0.776	0.000	0.000	21.268	0.000	0.16
		B		0.000	0.000	16.527	0.000	0.14
		C		0.000	0.000	59.537	0.000	0.57
T20	6.56-0.00	A	0.675	0.000	0.000	9.773	0.000	0.07
		B		0.000	0.000	7.711	0.000	0.06
		C		0.000	0.000	28.138	0.000	0.25

Feed Line Center of Pressure

Section	Elevation ft	CP_x in	CP_z in	CP_x Ice in	CP_z Ice in
T1	380.00-360.00	-0.4711	2.7032	-1.7017	1.9054
T2	360.00-340.00	-0.4530	2.9918	-1.7085	2.1578
T3	340.00-320.00	0.4684	3.0391	-0.6535	2.3001
T4	320.00-300.00	0.4538	2.9087	-0.6411	2.2627
T5	300.00-280.00	0.4557	2.8320	-0.6416	2.1068
T6	280.00-260.00	0.4492	2.6024	-0.6378	1.7925
T7	260.00-240.00	0.4357	2.5135	-0.6224	1.7594
T8	240.00-220.00	0.4492	2.6024	-0.6304	1.7960
T9	220.00-200.00	0.3199	2.7960	-0.7385	2.0043
T10	200.00-180.00	0.1879	2.6909	-0.8256	1.9989
T11	180.00-160.00	0.1934	2.7793	-0.8354	2.0359
T12	160.00-140.00	0.1934	2.7793	-0.8298	2.0367
T13	140.00-120.00	0.1879	2.6909	-0.8089	2.0011
T14	120.00-100.00	0.1815	2.7854	-0.8269	2.0449
T15	100.00-80.00	-0.0376	2.6597	-1.0171	1.9526
T16	80.00-60.00	-0.0374	2.5007	-0.9906	1.8487
T17	60.00-40.00	-0.0384	2.5805	-0.9957	1.8795
T18	40.00-20.00	-0.0384	2.5805	-0.9775	1.8757
T19	20.00-6.56	-0.0379	2.5372	-0.9412	1.8512
T20	6.56-0.00	-0.0102	1.2866	-0.2732	0.7856

Shielding Factor Ka

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Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
T1	2	Safety Line 3/8	360.00 - 380.00	0.6000	0.6000
T1	3	Sabre 3600 (3/4"Diam, 18"w, 6 per section)	360.00 - 380.00	0.6000	0.6000
T1	7	1/2" Cable (Lights)	360.00 - 380.00	0.6000	0.6000
T1	8	Sabre 3600 Waveguide	360.00 - 380.00	0.6000	0.6000
T1	9	Sabre 3600 Waveguide	360.00 - 380.00	0.6000	0.6000
T1	10	Sabre 3600 Waveguide	360.00 - 380.00	0.6000	0.6000
T1	14	LDF7-50A(1-5/8)	360.00 - 378.00	0.6000	0.6000
T1	15	WR-VG86T(3/4)	360.00 - 378.00	0.6000	0.6000
T1	16	FB-L98B-034-XXXXXX(3/8)	360.00 - 378.00	0.6000	0.6000
T2	2	Safety Line 3/8	340.00 - 360.00	0.6000	0.6000
T2	3	Sabre 3600 (3/4"Diam, 18"w, 6 per section)	340.00 - 360.00	0.6000	0.6000
T2	7	1/2" Cable (Lights)	340.00 - 360.00	0.6000	0.6000
T2	8	Sabre 3600 Waveguide	340.00 - 360.00	0.6000	0.6000
T2	9	Sabre 3600 Waveguide	340.00 - 360.00	0.6000	0.6000
T2	10	Sabre 3600 Waveguide	340.00 - 360.00	0.6000	0.6000
T2	14	LDF7-50A(1-5/8)	340.00 - 360.00	0.6000	0.6000
T2	15	WR-VG86T(3/4)	340.00 - 360.00	0.6000	0.6000
T2	16	FB-L98B-034-XXXXXX(3/8)	340.00 - 360.00	0.6000	0.6000
T3	2	Safety Line 3/8	320.00 - 340.00	0.6000	0.6000
T3	3	Sabre 3600 (3/4"Diam, 18"w, 6 per section)	320.00 - 340.00	0.6000	0.6000
T3	7	1/2" Cable (Lights)	320.00 - 340.00	0.6000	0.6000
T3	8	Sabre 3600 Waveguide	320.00 - 340.00	0.6000	0.6000
T3	9	Sabre 3600 Waveguide	320.00 - 340.00	0.6000	0.6000
T3	10	Sabre 3600 Waveguide	320.00 - 340.00	0.6000	0.6000
T3	12	HCS 2.0 Part 3(1-1/2)	320.00 - 340.00	0.6000	0.6000
T3	14	LDF7-50A(1-5/8)	320.00 - 340.00	0.6000	0.6000
T3	15	WR-VG86T(3/4)	320.00 - 340.00	0.6000	0.6000
T3	16	FB-L98B-034-XXXXXX(3/8)	320.00 - 340.00	0.6000	0.6000
T4	2	Safety Line 3/8	300.00 - 320.00	0.6000	0.6000
T4	3	Sabre 3600 (3/4"Diam, 18"w, 6 per section)	300.00 - 320.00	0.6000	0.6000
T4	7	1/2" Cable (Lights)	300.00 - 320.00	0.6000	0.6000

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Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
T4	8	Sabre 3600 Waveguide	300.00 - 320.00	0.6000	0.6000
T4	9	Sabre 3600 Waveguide	300.00 - 320.00	0.6000	0.6000
T4	10	Sabre 3600 Waveguide	300.00 - 320.00	0.6000	0.6000
T4	12	HCS 2.0 Part 3(1-1/2)	300.00 - 320.00	0.6000	0.6000
T4	14	LDF7-50A(1-5/8)	300.00 - 320.00	0.6000	0.6000
T4	15	WR-VG86T(3/4)	300.00 - 320.00	0.6000	0.6000
T4	16	FB-L98B-034-XXXXXX(3/8)	300.00 - 320.00	0.6000	0.6000
T5	2	Safety Line 3/8	280.00 - 300.00	0.6000	0.6000
T5	3	Sabre 3600 (3/4"Diam, 18"w, 6 per section)	280.00 - 300.00	0.6000	0.6000
T5	6	1/2" Cable (Lights)	280.00 - 287.00	0.6000	0.6000
T5	7	1/2" Cable (Lights)	287.00 - 300.00	0.6000	0.6000
T5	8	Sabre 3600 Waveguide	280.00 - 300.00	0.6000	0.6000
T5	9	Sabre 3600 Waveguide	280.00 - 300.00	0.6000	0.6000
T5	10	Sabre 3600 Waveguide	280.00 - 300.00	0.6000	0.6000
T5	12	HCS 2.0 Part 3(1-1/2)	280.00 - 300.00	0.6000	0.6000
T5	14	LDF7-50A(1-5/8)	280.00 - 300.00	0.6000	0.6000
T5	15	WR-VG86T(3/4)	280.00 - 300.00	0.6000	0.6000
T5	16	FB-L98B-034-XXXXXX(3/8)	280.00 - 300.00	0.6000	0.6000
T6	2	Safety Line 3/8	260.00 - 280.00	0.6000	0.6000
T6	3	Sabre 3600 (3/4"Diam, 18"w, 6 per section)	260.00 - 280.00	0.6000	0.6000
T6	6	1/2" Cable (Lights)	260.00 - 280.00	0.6000	0.6000
T6	8	Sabre 3600 Waveguide	260.00 - 280.00	0.6000	0.6000
T6	9	Sabre 3600 Waveguide	260.00 - 280.00	0.6000	0.6000
T6	10	Sabre 3600 Waveguide	260.00 - 280.00	0.6000	0.6000
T6	12	HCS 2.0 Part 3(1-1/2)	260.00 - 280.00	0.6000	0.6000
T6	14	LDF7-50A(1-5/8)	260.00 - 280.00	0.6000	0.6000
T6	15	WR-VG86T(3/4)	260.00 - 280.00	0.6000	0.6000
T6	16	FB-L98B-034-XXXXXX(3/8)	260.00 - 280.00	0.6000	0.6000
T7	2	Safety Line 3/8	240.00 - 260.00	0.6000	0.5994
T7	3	Sabre 3600 (3/4"Diam, 18"w, 6 per section)	240.00 - 260.00	0.6000	0.5994
T7	6	1/2" Cable (Lights)	240.00 - 260.00	0.6000	0.5994

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Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
T7	8	Sabre 3600 Waveguide	240.00 - 260.00	0.6000	0.5994
T7	9	Sabre 3600 Waveguide	240.00 - 260.00	0.6000	0.5994
T7	10	Sabre 3600 Waveguide	240.00 - 260.00	0.6000	0.5994
T7	12	HCS 2.0 Part 3(1-1/2)	240.00 - 260.00	0.6000	0.5994
T7	14	LDF7-50A(1-5/8)	240.00 - 260.00	0.6000	0.5994
T7	15	WR-VG86T(3/4)	240.00 - 260.00	0.6000	0.5994
T7	16	FB-L98B-034-XXXXXX(3/8)	240.00 - 260.00	0.6000	0.5994
T8	2	Safety Line 3/8	220.00 - 240.00	0.6000	0.6000
T8	3	Sabre 3600 (3/4"Diam, 18"w, 6 per section)	220.00 - 240.00	0.6000	0.6000
T8	6	1/2" Cable (Lights)	220.00 - 240.00	0.6000	0.6000
T8	8	Sabre 3600 Waveguide	220.00 - 240.00	0.6000	0.6000
T8	9	Sabre 3600 Waveguide	220.00 - 240.00	0.6000	0.6000
T8	10	Sabre 3600 Waveguide	220.00 - 240.00	0.6000	0.6000
T8	12	HCS 2.0 Part 3(1-1/2)	220.00 - 240.00	0.6000	0.6000
T8	14	LDF7-50A(1-5/8)	220.00 - 240.00	0.6000	0.6000
T8	15	WR-VG86T(3/4)	220.00 - 240.00	0.6000	0.6000
T8	16	FB-L98B-034-XXXXXX(3/8)	220.00 - 240.00	0.6000	0.6000
T9	2	Safety Line 3/8	200.00 - 220.00	0.6000	0.6000
T9	3	Sabre 3600 (3/4"Diam, 18"w, 6 per section)	200.00 - 220.00	0.6000	0.6000
T9	5	1/2" Cable (Lights)	200.00 - 204.00	0.6000	0.6000
T9	6	1/2" Cable (Lights)	204.00 - 220.00	0.6000	0.6000
T9	8	Sabre 3600 Waveguide	200.00 - 220.00	0.6000	0.6000
T9	9	Sabre 3600 Waveguide	200.00 - 220.00	0.6000	0.6000
T9	10	Sabre 3600 Waveguide	200.00 - 220.00	0.6000	0.6000
T9	12	HCS 2.0 Part 3(1-1/2)	200.00 - 220.00	0.6000	0.6000
T9	14	LDF7-50A(1-5/8)	200.00 - 220.00	0.6000	0.6000
T9	15	WR-VG86T(3/4)	200.00 - 220.00	0.6000	0.6000
T9	16	FB-L98B-034-XXXXXX(3/8)	200.00 - 220.00	0.6000	0.6000
T9	17	EWP63-65(ELLIPTICAL)	200.00 - 210.00	0.6000	0.6000
T10	2	Safety Line 3/8	180.00 - 200.00	0.6000	0.6000
T10	3	Sabre 3600 (3/4"Diam, 18"w, 6 per section)	180.00 - 200.00	0.6000	0.6000

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Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
T10	5	1/2" Cable (Lights)	180.00 - 200.00	0.6000	0.6000
T10	8	Sabre 3600 Waveguide	180.00 - 200.00	0.6000	0.6000
T10	9	Sabre 3600 Waveguide	180.00 - 200.00	0.6000	0.6000
T10	10	Sabre 3600 Waveguide	180.00 - 200.00	0.6000	0.6000
T10	12	HCS 2.0 Part 3(1-1/2)	180.00 - 200.00	0.6000	0.6000
T10	14	LDF7-50A(1-5/8)	180.00 - 200.00	0.6000	0.6000
T10	15	WR-VG86T(3/4)	180.00 - 200.00	0.6000	0.6000
T10	16	FB-L98B-034-XXXXXX(3/8)	180.00 - 200.00	0.6000	0.6000
T10	17	EWP63-65(ELLIPTICAL)	180.00 - 200.00	0.6000	0.6000
T11	2	Safety Line 3/8	160.00 - 180.00	0.6000	0.6000
T11	3	Sabre 3600 (3/4"Diam, 18"w, 6 per section)	160.00 - 180.00	0.6000	0.6000
T11	5	1/2" Cable (Lights)	160.00 - 180.00	0.6000	0.6000
T11	8	Sabre 3600 Waveguide	160.00 - 180.00	0.6000	0.6000
T11	9	Sabre 3600 Waveguide	160.00 - 180.00	0.6000	0.6000
T11	10	Sabre 3600 Waveguide	160.00 - 180.00	0.6000	0.6000
T11	12	HCS 2.0 Part 3(1-1/2)	160.00 - 180.00	0.6000	0.6000
T11	14	LDF7-50A(1-5/8)	160.00 - 180.00	0.6000	0.6000
T11	15	WR-VG86T(3/4)	160.00 - 180.00	0.6000	0.6000
T11	16	FB-L98B-034-XXXXXX(3/8)	160.00 - 180.00	0.6000	0.6000
T11	17	EWP63-65(ELLIPTICAL)	160.00 - 180.00	0.6000	0.6000
T12	2	Safety Line 3/8	140.00 - 160.00	0.6000	0.6000
T12	3	Sabre 3600 (3/4"Diam, 18"w, 6 per section)	140.00 - 160.00	0.6000	0.6000
T12	5	1/2" Cable (Lights)	140.00 - 160.00	0.6000	0.6000
T12	8	Sabre 3600 Waveguide	140.00 - 160.00	0.6000	0.6000
T12	9	Sabre 3600 Waveguide	140.00 - 160.00	0.6000	0.6000
T12	10	Sabre 3600 Waveguide	140.00 - 160.00	0.6000	0.6000
T12	12	HCS 2.0 Part 3(1-1/2)	140.00 - 160.00	0.6000	0.6000
T12	14	LDF7-50A(1-5/8)	140.00 - 160.00	0.6000	0.6000
T12	15	WR-VG86T(3/4)	140.00 - 160.00	0.6000	0.6000
T12	16	FB-L98B-034-XXXXXX(3/8)	140.00 - 160.00	0.6000	0.6000
T12	17	EWP63-65(ELLIPTICAL)	140.00 - 160.00	0.6000	0.6000

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Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
T13	2	Safety Line 3/8	120.00 - 140.00	0.6000	0.6000
T13	3	Sabre 3600 (3/4"Diam, 18"w, 6 per section)	120.00 - 140.00	0.6000	0.6000
T13	5	1/2" Cable (Lights)	120.00 - 140.00	0.6000	0.6000
T13	8	Sabre 3600 Waveguide	120.00 - 140.00	0.6000	0.6000
T13	9	Sabre 3600 Waveguide	120.00 - 140.00	0.6000	0.6000
T13	10	Sabre 3600 Waveguide	120.00 - 140.00	0.6000	0.6000
T13	12	HCS 2.0 Part 3(1-1/2)	120.00 - 140.00	0.6000	0.6000
T13	14	LDF7-50A(1-5/8)	120.00 - 140.00	0.6000	0.6000
T13	15	WR-VG86T(3/4)	120.00 - 140.00	0.6000	0.6000
T13	16	FB-L98B-034-XXXXXX(3/8)	120.00 - 140.00	0.6000	0.6000
T13	17	EWP63-65(ELLIPTICAL)	120.00 - 140.00	0.6000	0.6000
T14	2	Safety Line 3/8	100.00 - 120.00	0.6000	0.6000
T14	3	Sabre 3600 (3/4"Diam, 18"w, 6 per section)	100.00 - 120.00	0.6000	0.6000
T14	5	1/2" Cable (Lights)	100.00 - 120.00	0.6000	0.6000
T14	8	Sabre 3600 Waveguide	100.00 - 120.00	0.6000	0.6000
T14	9	Sabre 3600 Waveguide	100.00 - 120.00	0.6000	0.6000
T14	10	Sabre 3600 Waveguide	100.00 - 120.00	0.6000	0.6000
T14	12	HCS 2.0 Part 3(1-1/2)	100.00 - 120.00	0.6000	0.6000
T14	14	LDF7-50A(1-5/8)	100.00 - 120.00	0.6000	0.6000
T14	15	WR-VG86T(3/4)	100.00 - 120.00	0.6000	0.6000
T14	16	FB-L98B-034-XXXXXX(3/8)	100.00 - 120.00	0.6000	0.6000
T14	17	EWP63-65(ELLIPTICAL)	101.00 - 120.00	0.6000	0.6000
T14	18	EW63(ELLIPTICAL)	100.00 - 101.00	0.6000	0.6000
T15	2	Safety Line 3/8	80.00 - 100.00	0.6000	0.6000
T15	3	Sabre 3600 (3/4"Diam, 18"w, 6 per section)	80.00 - 100.00	0.6000	0.6000
T15	4	1/2" Cable (Lights)	80.00 - 95.00	0.6000	0.6000
T15	5	1/2" Cable (Lights)	95.00 - 100.00	0.6000	0.6000
T15	8	Sabre 3600 Waveguide	80.00 - 100.00	0.6000	0.6000
T15	9	Sabre 3600 Waveguide	80.00 - 100.00	0.6000	0.6000
T15	10	Sabre 3600 Waveguide	80.00 - 100.00	0.6000	0.6000
T15	12	HCS 2.0 Part 3(1-1/2)	80.00 - 100.00	0.6000	0.6000
T15	14	LDF7-50A(1-5/8)	80.00 - 100.00	0.6000	0.6000
T15	15	WR-VG86T(3/4)	80.00 - 100.00	0.6000	0.6000
T15	16	FB-L98B-034-XXXXXX(3/8)	80.00 - 100.00	0.6000	0.6000
T15	18	EW63(ELLIPTICAL)	80.00 - 100.00	0.6000	0.6000
T16	2	Safety Line 3/8	60.00 - 80.00	0.6000	0.6000
T16	3	Sabre 3600 (3/4"Diam, 18"w,	60.00 - 80.00	0.6000	0.6000

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Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
		6 per section)			
T16	4	1/2" Cable (Lights)	60.00 - 80.00	0.6000	0.6000
T16	8	Sabre 3600 Waveguide	60.00 - 80.00	0.6000	0.6000
T16	9	Sabre 3600 Waveguide	60.00 - 80.00	0.6000	0.6000
T16	10	Sabre 3600 Waveguide	60.00 - 80.00	0.6000	0.6000
T16	12	HCS 2.0 Part 3(1-1/2)	60.00 - 80.00	0.6000	0.6000
T16	14	LDF7-50A(1-5/8)	60.00 - 80.00	0.6000	0.6000
T16	15	WR-VG86T(3/4)	60.00 - 80.00	0.6000	0.6000
T16	16	FB-L98B-034-XXXXXX(3/8	60.00 - 80.00	0.6000	0.6000
)			
T16	18	EW63(ELLIPTICAL)	60.00 - 80.00	0.6000	0.6000
T17	2	Safety Line 3/8	40.00 - 60.00	0.6000	0.6000
T17	3	Sabre 3600 (3/4"Diam, 18"w,	40.00 - 60.00	0.6000	0.6000
		6 per section)			
T17	4	1/2" Cable (Lights)	40.00 - 60.00	0.6000	0.6000
T17	8	Sabre 3600 Waveguide	40.00 - 60.00	0.6000	0.6000
T17	9	Sabre 3600 Waveguide	40.00 - 60.00	0.6000	0.6000
T17	10	Sabre 3600 Waveguide	40.00 - 60.00	0.6000	0.6000
T17	12	HCS 2.0 Part 3(1-1/2)	40.00 - 60.00	0.6000	0.6000
T17	14	LDF7-50A(1-5/8)	40.00 - 60.00	0.6000	0.6000
T17	15	WR-VG86T(3/4)	40.00 - 60.00	0.6000	0.6000
T17	16	FB-L98B-034-XXXXXX(3/8	40.00 - 60.00	0.6000	0.6000
)			
T17	18	EW63(ELLIPTICAL)	40.00 - 60.00	0.6000	0.6000
T18	2	Safety Line 3/8	20.00 - 40.00	0.6000	0.6000
T18	3	Sabre 3600 (3/4"Diam, 18"w,	20.00 - 40.00	0.6000	0.6000
		6 per section)			
T18	4	1/2" Cable (Lights)	20.00 - 40.00	0.6000	0.6000
T18	8	Sabre 3600 Waveguide	20.00 - 40.00	0.6000	0.6000
T18	9	Sabre 3600 Waveguide	20.00 - 40.00	0.6000	0.6000
T18	10	Sabre 3600 Waveguide	20.00 - 40.00	0.6000	0.6000
T18	12	HCS 2.0 Part 3(1-1/2)	20.00 - 40.00	0.6000	0.6000
T18	14	LDF7-50A(1-5/8)	20.00 - 40.00	0.6000	0.6000
T18	15	WR-VG86T(3/4)	20.00 - 40.00	0.6000	0.6000
T18	16	FB-L98B-034-XXXXXX(3/8	20.00 - 40.00	0.6000	0.6000
)			
T18	18	EW63(ELLIPTICAL)	20.00 - 40.00	0.6000	0.6000
T19	2	Safety Line 3/8	6.56 - 20.00	0.6000	0.6000
T19	3	Sabre 3600 (3/4"Diam, 18"w,	6.56 - 20.00	0.6000	0.6000
		6 per section)			
T19	4	1/2" Cable (Lights)	6.56 - 20.00	0.6000	0.6000
T19	8	Sabre 3600 Waveguide	6.56 - 20.00	0.6000	0.6000
T19	9	Sabre 3600 Waveguide	6.56 - 20.00	0.6000	0.6000
T19	10	Sabre 3600 Waveguide	6.56 - 20.00	0.6000	0.6000
T19	12	HCS 2.0 Part 3(1-1/2)	6.56 - 20.00	0.6000	0.6000
T19	14	LDF7-50A(1-5/8)	6.56 - 20.00	0.6000	0.6000
T19	15	WR-VG86T(3/4)	6.56 - 20.00	0.6000	0.6000
T19	16	FB-L98B-034-XXXXXX(3/8	6.56 - 20.00	0.6000	0.6000
)			
T19	18	EW63(ELLIPTICAL)	6.56 - 20.00	0.6000	0.6000
T20	2	Safety Line 3/8	0.00 - 6.56	0.3437	0.2057
T20	3	Sabre 3600 (3/4"Diam, 18"w,	0.00 - 6.56	0.3437	0.2057
		6 per section)			
T20	4	1/2" Cable (Lights)	0.00 - 6.56	0.3437	0.2057
T20	8	Sabre 3600 Waveguide	0.00 - 6.56	0.3437	0.2057
T20	9	Sabre 3600 Waveguide	0.00 - 6.56	0.3437	0.2057
T20	10	Sabre 3600 Waveguide	0.00 - 6.56	0.3437	0.2057
T20	12	HCS 2.0 Part 3(1-1/2)	0.00 - 6.56	0.3437	0.2057
T20	14	LDF7-50A(1-5/8)	0.00 - 6.56	0.3437	0.2057
T20	15	WR-VG86T(3/4)	0.00 - 6.56	0.3437	0.2057
T20	16	FB-L98B-034-XXXXXX(3/8	0.00 - 6.56	0.3437	0.2057
)			

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Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
T20	18	EW63(ELLIPTICAL)	0.00 - 6.56	0.3437	0.2057

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _A A _A		Weight
			Horz	Vert			Front	Side	
			ft	ft	°	ft	ft ²	ft ²	K
misc]									
5/8"x8-ft LRod	B	From Leg	0.00	0.0000	380.00	No Ice	0.50	0.50	0.01
			0.00			1/2" Ice	1.31	1.31	0.01
			10.00			1" Ice	2.14	2.14	0.02
2.4" Dia x 6-ft Pipe	B	From Leg	0.00	0.0000	380.00	No Ice	1.43	1.43	0.02
			0.00			1/2" Ice	1.93	1.93	0.03
			3.00			1" Ice	2.30	2.30	0.05
12" x 24" Beacon	A	From Leg	0.00	0.0000	380.00	No Ice	1.00	1.00	0.03
			0.00			1/2" Ice	1.58	1.58	0.05
			1.00			1" Ice	1.77	1.77	0.07
Beacon Mount	A	From Leg	0.00	0.0000	380.00	No Ice	1.75	0.01	0.02
			0.00			1/2" Ice	2.23	0.03	0.03
			0.00			1" Ice	2.73	0.05	0.05
3" x 6" SideLight	A	From Leg	0.50	0.0000	287.00	No Ice	0.09	0.09	0.00
			0.00			1/2" Ice	0.14	0.14	0.00
			0.00			1" Ice	0.19	0.19	0.00
3" x 6" SideLight	B	From Leg	0.50	0.0000	287.00	No Ice	0.09	0.09	0.00
			0.00			1/2" Ice	0.14	0.14	0.00
			0.00			1" Ice	0.19	0.19	0.00
3" x 6" SideLight	C	From Leg	0.50	0.0000	287.00	No Ice	0.09	0.09	0.00
			0.00			1/2" Ice	0.14	0.14	0.00
			0.00			1" Ice	0.19	0.19	0.00
Junction Box 12" x 10" x 6"	A	From Leg	0.50	0.0000	286.00	No Ice	1.00	0.60	0.01
			0.00			1/2" Ice	1.13	0.70	0.02
			0.00			1" Ice	1.26	0.81	0.03
2' Ice Shield	A	From Leg	0.50	0.0000	207.00	No Ice	0.40	0.40	0.02
			0.00			1/2" Ice	0.55	0.55	0.04
			0.00			1" Ice	0.70	0.70	0.07
12" x 24" Beacon	A	From Leg	0.50	0.0000	204.00	No Ice	1.00	1.00	0.03
			0.00			1/2" Ice	1.58	1.58	0.05
			0.00			1" Ice	1.77	1.77	0.07
Beacon Mount	A	From Leg	0.50	0.0000	203.00	No Ice	1.75	0.01	0.02
			0.00			1/2" Ice	2.23	0.03	0.03
			0.00			1" Ice	2.73	0.05	0.05
2' Ice Shield	C	From Leg	0.50	0.0000	207.00	No Ice	0.40	0.40	0.02
			0.00			1/2" Ice	0.55	0.55	0.04
			0.00			1" Ice	0.70	0.70	0.07
12" x 24" Beacon	C	From Leg	0.50	0.0000	204.00	No Ice	1.00	1.00	0.03
			0.00			1/2" Ice	1.58	1.58	0.05
			0.00			1" Ice	1.77	1.77	0.07
Beacon Mount	C	From Leg	0.50	0.0000	203.00	No Ice	1.75	0.01	0.02
			0.00			1/2" Ice	2.23	0.03	0.03
			0.00			1" Ice	2.73	0.05	0.05
3" x 6" SideLight	A	From Leg	0.50	0.0000	95.00	No Ice	0.09	0.09	0.00

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Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _A A _A Front	C _A A _A Side	Weight
			Horz	Vert					
			ft	ft	°	ft	ft ²	ft ²	K
			0.00			1/2" Ice	0.14	0.14	0.00
			0.00			1" Ice	0.19	0.19	0.00
3" x 6" SideLight	B	From Leg	0.50	0.0000	95.00	No Ice	0.09	0.09	0.00
			0.00			1/2" Ice	0.14	0.14	0.00
			0.00			1" Ice	0.19	0.19	0.00
3" x 6" SideLight	C	From Leg	0.50	0.0000	95.00	No Ice	0.09	0.09	0.00
			0.00			1/2" Ice	0.14	0.14	0.00
			0.00			1" Ice	0.19	0.19	0.00
Junction Box 12" x 10" x 6"	A	From Leg	0.50	0.0000	94.00	No Ice	1.00	0.60	0.01
			0.00			1/2" Ice	1.13	0.70	0.02
			0.00			1" Ice	1.26	0.81	0.03
378									
(2) EPBQ-654L8H8-L2 w/ Mount Pipe	A	From Leg	4.00	0.0000	378.00	No Ice	14.86	6.25	0.12
			0.00			1/2" Ice	15.72	7.02	0.23
			0.00			1" Ice	16.59	7.80	0.35
(2) EPBQ-654L8H8-L2 w/ Mount Pipe	B	From Leg	4.00	0.0000	378.00	No Ice	14.86	6.25	0.12
			0.00			1/2" Ice	15.72	7.02	0.23
			0.00			1" Ice	16.59	7.80	0.35
(2) EPBQ-654L8H8-L2 w/ Mount Pipe	C	From Leg	4.00	0.0000	378.00	No Ice	14.86	6.25	0.12
			0.00			1/2" Ice	15.72	7.02	0.23
			0.00			1" Ice	16.59	7.80	0.35
AHLBA	A	From Leg	4.00	0.0000	378.00	No Ice	3.67	2.31	0.10
			0.00			1/2" Ice	3.92	2.51	0.13
			0.00			1" Ice	4.18	2.73	0.16
AHLBA	B	From Leg	4.00	0.0000	378.00	No Ice	3.67	2.31	0.10
			0.00			1/2" Ice	3.92	2.51	0.13
			0.00			1" Ice	4.18	2.73	0.16
AHLBA	C	From Leg	4.00	0.0000	378.00	No Ice	3.67	2.31	0.10
			0.00			1/2" Ice	3.92	2.51	0.13
			0.00			1" Ice	4.18	2.73	0.16
DC6-48-60-0-8C	A	From Leg	4.00	0.0000	378.00	No Ice	1.14	1.14	0.03
			0.00			1/2" Ice	1.79	1.79	0.05
			0.00			1" Ice	2.00	2.00	0.07
B25 RRH4X30	A	From Leg	4.00	0.0000	378.00	No Ice	2.12	1.29	0.05
			0.00			1/2" Ice	2.31	1.45	0.07
			0.00			1" Ice	2.50	1.61	0.09
B25 RRH4X30	B	From Leg	4.00	0.0000	378.00	No Ice	2.12	1.29	0.05
			0.00			1/2" Ice	2.31	1.45	0.07
			0.00			1" Ice	2.50	1.61	0.09
B25 RRH4X30	C	From Leg	4.00	0.0000	378.00	No Ice	2.12	1.29	0.05
			0.00			1/2" Ice	2.31	1.45	0.07
			0.00			1" Ice	2.50	1.61	0.09
B66A RRH4X45	A	From Leg	4.00	0.0000	378.00	No Ice	2.54	1.61	0.06
			0.00			1/2" Ice	2.75	1.79	0.08
			0.00			1" Ice	2.97	1.98	0.10
B66A RRH4X45	B	From Leg	4.00	0.0000	378.00	No Ice	2.54	1.61	0.06
			0.00			1/2" Ice	2.75	1.79	0.08
			0.00			1" Ice	2.97	1.98	0.10
B66A RRH4X45	C	From Leg	4.00	0.0000	378.00	No Ice	2.54	1.61	0.06
			0.00			1/2" Ice	2.75	1.79	0.08
			0.00			1" Ice	2.97	1.98	0.10
RRH2X40-07L-DE	A	From Leg	4.00	0.0000	378.00	No Ice	3.43	2.25	0.07
			0.00			1/2" Ice	3.68	2.46	0.10
			0.00			1" Ice	3.93	2.67	0.13
RRH2X40-07L-DE	B	From Leg	4.00	0.0000	378.00	No Ice	3.43	2.25	0.07
			0.00			1/2" Ice	3.68	2.46	0.10
			0.00			1" Ice	3.93	2.67	0.13

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Description	Face or Leg	Offset Type	Offsets:			Azimuth Adjustment	Placement	C _A A _A Front	C _A A _A Side	Weight
			Horz	Lateral	Vert					
RRH2X40-07L-DE	C	From Leg	4.00	0.0000	378.00	No Ice	3.43	2.25	0.07	
			0.00			1/2" Ice	3.68	2.46	0.10	
			0.00			1" Ice	3.93	2.67	0.13	
E15Z01P13	A	From Leg	4.00	0.0000	378.00	No Ice	0.78	0.60	0.02	
			0.00			1/2" Ice	0.90	0.70	0.03	
			0.00			1" Ice	1.02	0.82	0.04	
E15Z01P13	B	From Leg	4.00	0.0000	378.00	No Ice	0.78	0.60	0.02	
			0.00			1/2" Ice	0.90	0.70	0.03	
			0.00			1" Ice	1.02	0.82	0.04	
E15Z01P13	C	From Leg	4.00	0.0000	378.00	No Ice	0.78	0.60	0.02	
			0.00			1/2" Ice	0.90	0.70	0.03	
			0.00			1" Ice	1.02	0.82	0.04	
DC6-48-60-18-8F	C	From Leg	4.00	0.0000	378.00	No Ice	1.21	1.21	0.03	
			0.00			1/2" Ice	1.89	1.89	0.05	
			0.00			1" Ice	2.11	2.11	0.08	
(3) 2.4" Dia x 8-ft Mount Pipe	A	From Leg	4.00	0.0000	378.00	No Ice	1.90	1.90	0.03	
			0.00			1/2" Ice	2.73	2.73	0.04	
			0.00			1" Ice	3.40	3.40	0.06	
(3) 2.4" Dia x 8-ft Mount Pipe	B	From Leg	4.00	0.0000	378.00	No Ice	1.90	1.90	0.03	
			0.00			1/2" Ice	2.73	2.73	0.04	
			0.00			1" Ice	3.40	3.40	0.06	
(3) 2.4" Dia x 8-ft Mount Pipe	C	From Leg	4.00	0.0000	378.00	No Ice	1.90	1.90	0.03	
			0.00			1/2" Ice	2.73	2.73	0.04	
			0.00			1" Ice	3.40	3.40	0.06	
2.4" Dia x 12.5' Pipe	A	From Leg	4.00	0.0000	378.00	No Ice	2.97	2.97	0.05	
			0.00			1/2" Ice	4.25	4.25	0.07	
			0.00			1" Ice	5.54	5.54	0.10	
2.4" Dia x 12.5' Pipe	B	From Leg	4.00	0.0000	378.00	No Ice	2.97	2.97	0.05	
			0.00			1/2" Ice	4.25	4.25	0.07	
			0.00			1" Ice	5.54	5.54	0.10	
2.4" Dia x 12.5' Pipe	C	From Leg	4.00	0.0000	378.00	No Ice	2.97	2.97	0.05	
			0.00			1/2" Ice	4.25	4.25	0.07	
			0.00			1" Ice	5.54	5.54	0.10	
(2) L2 1/2x2 1/2x1/4 x 7-ft	A	From Leg	2.00	0.0000	378.00	No Ice	2.92	2.92	0.03	
			0.00			1/2" Ice	3.72	3.72	0.05	
			0.00			1" Ice	4.34	4.34	0.07	
(2) L2 1/2x2 1/2x1/4 x 7-ft	B	From Leg	2.00	0.0000	378.00	No Ice	2.92	2.92	0.03	
			0.00			1/2" Ice	3.72	3.72	0.05	
			0.00			1" Ice	4.34	4.34	0.07	
(2) L2 1/2x2 1/2x1/4 x 7-ft	C	From Leg	2.00	0.0000	378.00	No Ice	2.92	2.92	0.03	
			0.00			1/2" Ice	3.72	3.72	0.05	
			0.00			1" Ice	4.34	4.34	0.07	
Sector Mount [SM 602-3]	C	None		0.0000	378.00	No Ice	32.10	32.10	1.54	
						1/2" Ice	39.56	39.56	2.12	
						1" Ice	47.21	47.21	2.84	
340										
FFVV-65C-R3-V1_TMO w/ Mount Pipe	A	From Leg	4.00	0.0000	340.00	No Ice	12.97	6.20	0.16	
			0.00			1/2" Ice	13.62	6.77	0.29	
			0.00			1" Ice	14.27	7.36	0.44	
FFVV-65C-R3-V1_TMO w/ Mount Pipe	B	From Leg	4.00	0.0000	340.00	No Ice	12.97	6.20	0.16	
			0.00			1/2" Ice	13.62	6.77	0.29	
			0.00			1" Ice	14.27	7.36	0.44	
FFVV-65C-R3-V1_TMO w/ Mount Pipe	C	From Leg	4.00	0.0000	340.00	No Ice	12.97	6.20	0.16	
			0.00			1/2" Ice	13.62	6.77	0.29	
			0.00			1" Ice	14.27	7.36	0.44	
AEHC w/ Mount Pipe	A	From Leg	4.00	0.0000	340.00	No Ice	6.91	2.77	0.11	
			0.00			1/2" Ice	7.40	3.15	0.16	

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Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft	C _A A _A Front ft ²	C _A A _A Side ft ²	Weight K	
AEHC w/ Mount Pipe	B	From Leg	0.00	0.0000	340.00	1" Ice	7.91	3.55	0.22
			4.00			No Ice	6.91	2.77	0.11
			0.00			1/2" Ice	7.40	3.15	0.16
AEHC w/ Mount Pipe	C	From Leg	0.00	0.0000	340.00	1" Ice	7.91	3.55	0.22
			4.00			No Ice	6.91	2.77	0.11
			0.00			1/2" Ice	7.40	3.15	0.16
AHLOA	A	From Leg	0.00	0.0000	340.00	1" Ice	7.91	3.55	0.22
			4.00			No Ice	2.23	1.39	0.08
			0.00			1/2" Ice	2.42	1.55	0.10
AHLOA	B	From Leg	0.00	0.0000	340.00	1" Ice	2.62	1.72	0.12
			4.00			No Ice	2.23	1.39	0.08
			0.00			1/2" Ice	2.42	1.55	0.10
AHLOA	C	From Leg	0.00	0.0000	340.00	1" Ice	2.62	1.72	0.12
			4.00			No Ice	2.23	1.39	0.08
			0.00			1/2" Ice	2.42	1.55	0.10
AHFIG_TMO	A	From Leg	0.00	0.0000	340.00	1" Ice	2.62	1.72	0.12
			4.00			No Ice	3.08	1.47	0.07
			0.00			1/2" Ice	3.32	1.66	0.09
AHFIG_TMO	B	From Leg	0.00	0.0000	340.00	1" Ice	3.56	1.85	0.12
			4.00			No Ice	3.08	1.47	0.07
			0.00			1/2" Ice	3.32	1.66	0.09
AHFIG_TMO	C	From Leg	0.00	0.0000	340.00	1" Ice	3.56	1.85	0.12
			4.00			No Ice	3.08	1.47	0.07
			0.00			1/2" Ice	3.32	1.66	0.09
HCS 2.0 Part 1	A	From Leg	0.00	0.0000	340.00	1" Ice	3.56	1.85	0.12
			4.00			No Ice	1.87	0.93	0.02
			0.00			1/2" Ice	2.04	1.06	0.04
HCS 2.0 Part 1	B	From Leg	0.00	0.0000	340.00	1" Ice	2.21	1.19	0.06
			4.00			No Ice	1.87	0.93	0.02
			0.00			1/2" Ice	2.04	1.06	0.04
2.4" Dia x 6-ft Pipe	A	From Leg	0.00	0.0000	340.00	1" Ice	2.21	1.19	0.06
			2.00			No Ice	1.43	1.43	0.02
			0.00			1/2" Ice	1.93	1.93	0.03
2.4" Dia x 8-ft Mount Pipe	A	From Leg	0.00	0.0000	340.00	1" Ice	2.30	2.30	0.05
			4.00			No Ice	1.90	1.90	0.03
			0.00			1/2" Ice	2.73	2.73	0.04
2.4" Dia x 8-ft Mount Pipe	B	From Leg	0.00	0.0000	340.00	1" Ice	3.40	3.40	0.06
			4.00			No Ice	1.90	1.90	0.03
			0.00			1/2" Ice	2.73	2.73	0.04
2.4" Dia x 8-ft Mount Pipe	C	From Leg	0.00	0.0000	340.00	1" Ice	3.40	3.40	0.06
			4.00			No Ice	1.90	1.90	0.03
			0.00			1/2" Ice	2.73	2.73	0.04
Sitepro VFA12-HD Sector Mount (3)	C	None	0.00	0.0000	340.00	1" Ice	3.40	3.40	0.06
			0.00			No Ice	29.70	20.70	1.97
			0.00			1/2" Ice	43.88	32.85	2.41
215 ISMD8-R5LL	A	From Leg	0.00	0.0000	215.00	1" Ice	58.05	43.88	3.04
			1.00			No Ice	2.40	1.56	0.35
			0.00			1/2" Ice	2.95	1.93	0.57
210 (2) 9500 MPR	A	From Leg	0.00	0.0000	210.00	1" Ice	3.51	2.31	0.79
			1.00			No Ice	1.06	0.44	0.01
			0.00			1/2" Ice	1.19	0.53	0.02
Pipe Mount [PM 601-1]	A	From Leg	0.00	0.0000	210.00	1" Ice	1.33	0.63	0.03
			0.50			No Ice	1.32	1.32	0.07
			0.00			1/2" Ice	1.58	1.58	0.08
			0.00			1" Ice	1.84	1.84	0.09

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Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft	C _A A _A Front ft ²	C _A A _A Side ft ²	Weight K
110 MD-S4	C	From Leg	4.00 0.00 0.00	0.0000	110.00	No Ice 1.25 1/2" Ice 1.68 1" Ice 2.12	0.23 0.33 0.43	0.29 0.33 0.38
101 Side Arm Mount [SO 203-1]	C	From Face	0.50 0.00 0.00	0.0000	101.00	No Ice 1.78 1/2" Ice 2.24 1" Ice 2.75	3.79 4.47 5.21	0.13 0.15 0.19
**								

Dishes

Description	Face or Leg	Dish Type	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	3 dB Beam Width °	Elevation ft	Outside Diameter ft	Aperture Area ft ²	Weight K
210 UHX6-59-P3A/L	A	Paraboloid w/Shroud (HP)	From Leg	1.00 0.00 0.00	-13.0000		210.00	6.46	No Ice 32.76 1/2" Ice 33.61 1" Ice 34.46	0.25 0.43 0.60
101 P4-57W-PXA	C	Paraboloid w/Radome	From Face	1.00 0.00 -1.00	90.0000		101.00	4.37	No Ice 14.98 1/2" Ice 15.56 1" Ice 16.14	0.17 0.25 0.33
**										

Load Combinations

Comb. No.	Description
1	Dead Only
2	1.2 Dead+1.0 Wind 0 deg - No Ice+1.0 Guy
3	1.2 Dead+1.0 Wind 30 deg - No Ice+1.0 Guy
4	1.2 Dead+1.0 Wind 60 deg - No Ice+1.0 Guy
5	1.2 Dead+1.0 Wind 90 deg - No Ice+1.0 Guy
6	1.2 Dead+1.0 Wind 120 deg - No Ice+1.0 Guy
7	1.2 Dead+1.0 Wind 150 deg - No Ice+1.0 Guy
8	1.2 Dead+1.0 Wind 180 deg - No Ice+1.0 Guy
9	1.2 Dead+1.0 Wind 210 deg - No Ice+1.0 Guy
10	1.2 Dead+1.0 Wind 240 deg - No Ice+1.0 Guy
11	1.2 Dead+1.0 Wind 270 deg - No Ice+1.0 Guy
12	1.2 Dead+1.0 Wind 300 deg - No Ice+1.0 Guy
13	1.2 Dead+1.0 Wind 330 deg - No Ice+1.0 Guy
14	1.2 Dead+1.0 Ice+1.0 Temp+Guy
15	1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp+1.0 Guy
16	1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp+1.0 Guy
17	1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp+1.0 Guy

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Comb. No.	Description
18	1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp+1.0 Guy
19	1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp+1.0 Guy
20	1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp+1.0 Guy
21	1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp+1.0 Guy
22	1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp+1.0 Guy
23	1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp+1.0 Guy
24	1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp+1.0 Guy
25	1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp+1.0 Guy
26	1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp+1.0 Guy
27	Dead+Wind 0 deg - Service+Guy
28	Dead+Wind 30 deg - Service+Guy
29	Dead+Wind 60 deg - Service+Guy
30	Dead+Wind 90 deg - Service+Guy
31	Dead+Wind 120 deg - Service+Guy
32	Dead+Wind 150 deg - Service+Guy
33	Dead+Wind 180 deg - Service+Guy
34	Dead+Wind 210 deg - Service+Guy
35	Dead+Wind 240 deg - Service+Guy
36	Dead+Wind 270 deg - Service+Guy
37	Dead+Wind 300 deg - Service+Guy
38	Dead+Wind 330 deg - Service+Guy

Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
T1	380 - 360	3.775	33	0.1573	0.1167
T2	360 - 340	3.213	33	0.1243	0.1251
T3	340 - 320	2.770	33	0.1165	0.1428
T4	320 - 300	2.315	33	0.0996	0.1589
T5	300 - 280	2.030	33	0.0498	0.1766
T6	280 - 260	1.965	33	0.0293	0.2380
T7	260 - 240	2.001	33	0.0464	0.2896
T8	240 - 220	2.144	33	0.0675	0.3314
T9	220 - 200	2.359	33	0.0578	0.3657
T10	200 - 180	2.486	33	0.0359	0.3902
T11	180 - 160	2.527	33	0.0282	0.4057
T12	160 - 140	2.517	33	0.0176	0.4137
T13	140 - 120	2.395	27	0.0445	0.4118
T14	120 - 100	2.228	27	0.0551	0.4013
T15	100 - 80	2.004	27	0.0734	0.3936
T16	80 - 60	1.670	27	0.0874	0.3692
T17	60 - 40	1.300	27	0.0843	0.3382
T18	40 - 20	0.941	27	0.0943	0.3023
T19	20 - 6.5625	0.506	27	0.1131	0.2592
T20	6.5625 - 0	0.171	27	0.1217	0.2382

Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
380.00	5/8"x8-ft LRod	33	3.775	0.1573	0.1167	90415
378.00	(2) EPBQ-654L8H8-L2 w/ Mount	33	3.715	0.1534	0.1173	90415

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Elevation	Appurtenance	Gov. Load Comb.	Deflection	Tilt	Twist	Radius of Curvature
ft			in	°	°	ft
366.69	Pipe					
	Guy	33	3.388	0.1330	0.1214	33977
340.00	FFVV-65C-R3-V1_TMO w/ Mount	33	2.770	0.1165	0.1428	43206
	Pipe					
306.69	Guy	33	2.098	0.0669	0.1667	19454
287.00	3" x 6" SideLight	33	1.971	0.0263	0.2146	37691
286.00	Junction Box 12" x 10" x 6"	33	1.970	0.0249	0.2180	40637
246.69	Guy	33	2.084	0.0618	0.3180	42077
215.00	ISMD8-R5LL	33	2.402	0.0510	0.3728	35329
210.00	UHX6-59-P3A/L	33	2.437	0.0442	0.3792	41345
207.00	2' Ice Shield	33	2.455	0.0413	0.3828	44625
204.00	12" x 24" Beacon	33	2.470	0.0387	0.3861	47583
203.00	Beacon Mount	33	2.474	0.0379	0.3872	48696
186.69	Guy	33	2.519	0.0318	0.4013	123280
126.69	Guy	27	2.290	0.0521	0.4057	93558
110.00	MD-S4	27	2.127	0.0631	0.3989	53775
101.00	Side Arm Mount [SO 203-1]	27	2.018	0.0724	0.3943	33814
100.00	P4-57W-PXA	27	2.004	0.0734	0.3936	33520
95.00	3" x 6" SideLight	27	1.930	0.0785	0.3892	39332
94.00	Junction Box 12" x 10" x 6"	27	1.914	0.0794	0.3882	41498
66.69	Guy	27	1.422	0.0855	0.3472	111877

Maximum Tower Deflections - Design Wind

Section No.	Elevation	Horz. Deflection	Gov. Load Comb.	Tilt	Twist
	ft	in		°	°
T1	380 - 360	21.212	2	0.9910	0.4414
T2	360 - 340	17.613	2	0.8783	0.4677
T3	340 - 320	14.487	2	0.8080	0.5313
T4	320 - 300	11.722	3	0.6787	0.5898
T5	300 - 280	10.034	8	0.4273	0.6472
T6	280 - 260	9.407	8	0.2226	0.8308
T7	260 - 240	9.201	8	0.1233	0.9799
T8	240 - 220	9.435	8	0.2088	1.1003
T9	220 - 200	10.242	2	0.2399	1.2014
T10	200 - 180	11.145	2	0.1893	1.2681
T11	180 - 160	11.799	2	0.1715	1.3086
T12	160 - 140	12.176	2	0.0993	1.3304
T13	140 - 120	11.946	2	0.1945	1.3187
T14	120 - 100	11.211	2	0.2337	1.2807
T15	100 - 80	10.076	2	0.3353	1.2520
T16	80 - 60	8.409	2	0.4333	1.1713
T17	60 - 40	6.531	2	0.4406	1.0700
T18	40 - 20	4.642	2	0.4854	0.9573
T19	20 - 6.5625	2.454	2	0.5575	0.8196
T20	6.5625 - 0	0.823	2	0.5895	0.7488

Critical Deflections and Radius of Curvature - Design Wind

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Elevation	Appurtenance	Gov. Load Comb.	Deflection	Tilt	Twist	Radius of Curvature
ft			in	°	°	ft
380.00	5/8"x8-ft LRod	2	21.212	0.9910	0.4414	25251
378.00	(2) EPBQ-654L8H8-L2 w/ Mount Pipe	2	20.840	0.9784	0.4430	25251
366.69	Guy	2	18.771	0.9111	0.4553	9489
340.00	FFVV-65C-R3-V1_TMO w/ Mount Pipe	2	14.487	0.8080	0.5313	16857
306.69	Guy	3	10.449	0.5128	0.6165	3937
287.00	3" x 6" SideLight	8	9.561	0.2920	0.7614	5693
286.00	Junction Box 12" x 10" x 6"	8	9.536	0.2823	0.7715	5880
246.69	Guy	8	9.306	0.1518	1.0616	6570
215.00	ISMD8-R5LL	2	10.495	0.2259	1.2214	11810
210.00	UHX6-59-P3A/L	2	10.729	0.2090	1.2390	13106
207.00	2' Ice Shield	2	10.861	0.1989	1.2485	14030
204.00	12" x 24" Beacon	2	10.987	0.1942	1.2574	15096
203.00	Beacon Mount	2	11.027	0.1928	1.2602	15496
186.69	Guy	2	11.602	0.1811	1.2970	24693
126.69	Guy	2	11.500	0.2218	1.2956	13027
110.00	MD-S4	2	10.705	0.2716	1.2683	9768
101.00	Side Arm Mount [SO 203-1]	2	10.146	0.3288	1.2543	7480
100.00	P4-57W-PXA	2	10.076	0.3353	1.2520	7468
95.00	3" x 6" SideLight	2	9.703	0.3669	1.2375	8661
94.00	Junction Box 12" x 10" x 6"	2	9.624	0.3730	1.2341	9070
66.69	Guy	2	7.160	0.4368	1.0991	27945

Bolt Design Data

Section No.	Elevation	Component Type	Bolt Grade	Bolt Size	Number Of Bolts	Maximum Load per Bolt K	Allowable Load per Bolt K	Ratio Load Allowable	Allowable Ratio	Criteria	
	ft			in							
T1	380	Leg	A325N	0.7500	3	2.80	30.10	0.093	1.05	Bolt Tension	
		Torque Arm	A325N	0.6250	8	1.10	13.81	0.080	1.05	Bolt Shear	
		Top@366.694									
T2	360	Leg	A325N	0.7500	3	2.29	30.10	0.076	1.05	Bolt Tension	
T3	340	Leg	A325N	0.7500	3	5.64	30.10	0.187	1.05	Bolt Tension	
T4	320	Leg	A325N	0.7500	3	7.91	30.10	0.263	1.05	Bolt Tension	
		Torque Arm	A325N	0.6250	8	0.99	13.81	0.071	1.05	Bolt Shear	
		Top@306.694									
T5	300	Leg	A325N	0.7500	3	6.55	30.10	0.218	1.05	Bolt Tension	
T6	280	Leg	A325N	0.7500	3	6.45	30.10	0.214	1.05	Bolt Tension	
T7	260	Leg	A325N	0.7500	3	6.00	30.10	0.199	1.05	Bolt Tension	
T8	240	Leg	A325N	0.7500	3	5.44	30.10	0.181	1.05	Bolt Tension	
T9	220	Leg	A325N	0.7500	3	5.83	30.10	0.194	1.05	Bolt Tension	
T10	200	Leg	A325N	0.7500	3	6.30	30.10	0.209	1.05	Bolt Tension	
T11	180	Leg	A325N	0.7500	3	6.87	30.10	0.228	1.05	Bolt Tension	
T12	160	Leg	A325N	0.7500	3	6.80	30.10	0.226	1.05	Bolt Tension	
T13	140	Leg	A325N	0.7500	3	6.90	30.10	0.229	1.05	Bolt Tension	
T14	120	Leg	A325N	0.7500	3	7.22	30.10	0.240	1.05	Bolt Tension	
T15	100	Leg	A325N	0.7500	3	6.87	30.10	0.228	1.05	Bolt Tension	
T16	80	Leg	A325N	0.7500	3	7.08	30.10	0.235	1.05	Bolt Tension	
T17	60	Leg	A325N	0.7500	3	7.40	30.10	0.246	1.05	Bolt Tension	
T18	40	Leg	A325N	0.7500	3	7.53	30.10	0.250	1.05	Bolt Tension	

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Guy Design Data

Section No.	Elevation ft	Size	Initial Tension K	Breaking Load K	Actual T_n K	Allowable ϕT_n K	Required S.F.	Actual S.F.
T1	366.69 (A) (807)	5/8 EHS	4.24	42.40	14.30	26.71	0.952	1.779
	366.69 (A) (808)	5/8 EHS	4.24	42.40	14.26	26.71	0.952	1.783
	366.69 (B) (803)	5/8 EHS	4.24	42.40	13.99	26.71	0.952	1.818
	366.69 (B) (804)	5/8 EHS	4.24	42.40	13.78	26.71	0.952	1.846
	366.69 (C) (799)	5/8 EHS	4.24	42.40	13.85	26.71	0.952	1.836
	366.69 (C) (800)	5/8 EHS	4.24	42.40	14.06	26.71	0.952	1.810
T4	306.69 (A) (819)	5/8 EHS	4.24	42.40	11.97	26.71	0.952	2.126
	306.69 (A) (820)	5/8 EHS	4.24	42.40	11.89	26.71	0.952	2.139
	306.69 (B) (815)	5/8 EHS	4.24	42.40	11.35	26.71	0.952	2.241
	306.69 (B) (816)	5/8 EHS	4.24	42.40	11.07	26.71	0.952	2.299
	306.69 (C) (811)	5/8 EHS	4.24	42.40	11.16	26.71	0.952	2.280
	306.69 (C) (812)	5/8 EHS	4.24	42.40	11.46	26.71	0.952	2.219
T7	246.69 (A) (828)	5/8 EHS	4.24	42.40	12.27	26.71	0.952	2.073
	246.69 (B) (827)	5/8 EHS	4.24	42.40	10.89	26.71	0.952	2.335
	246.69 (C) (823)	5/8 EHS	4.24	42.40	10.97	26.71	0.952	2.320
T10	186.69 (A) (834)	1/2 EHS	2.69	26.90	9.42	16.95	0.952	1.713
	186.69 (B) (833)	1/2 EHS	2.69	26.90	8.14	16.95	0.952	1.983
	186.69 (C) (829)	1/2 EHS	2.69	26.90	8.18	16.95	0.952	1.972
T13	126.69 (A) (840)	7/16 EHS	2.08	20.80	7.30	13.10	0.952	1.710
	126.69 (B) (839)	7/16 EHS	2.08	20.80	6.48	13.10	0.952	1.927
	126.69 (C) (835)	7/16 EHS	2.08	20.80	6.57	13.10	0.952	1.900
T16	66.69 (A) (846)	9/16 EHS	3.50	35.00	8.90	22.05	0.952	2.359
	66.69 (B) (845)	9/16 EHS	3.50	35.00	8.22	22.05	0.952	2.556
	66.69 (C) (841)	9/16 EHS	3.50	35.00	8.37	22.05	0.952	2.508

Compression Checks

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Leg Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T1	380 - 360	1 3/4	20.00	3.31	90.7 K=1.00	2.4053	-28.79	59.34	0.485 ¹
T2	360 - 340	1 3/4	20.00	3.31	90.7 K=1.00	2.4053	-24.63	59.34	0.415 ¹
T3	340 - 320	2	20.00	3.31	79.3 K=1.00	3.1416	-47.57	89.23	0.533 ¹
T4	320 - 300	2 1/4	20.00	3.31	70.5 K=1.00	3.9761	-76.53	124.38	0.615 ¹
T5	300 - 280	2 1/4	20.00	3.31	70.5 K=1.00	3.9761	-69.42	124.38	0.558 ¹
T6	280 - 260	2 1/4	20.00	3.31	70.5 K=1.00	3.9761	-58.81	124.38	0.473 ¹
T7	260 - 240	2 1/4	20.00	3.31	70.5 K=1.00	3.9761	-61.30	124.38	0.493 ¹
T8	240 - 220	2 1/4	20.00	3.31	70.5 K=1.00	3.9761	-51.71	124.38	0.416 ¹
T9	220 - 200	2 1/4	20.00	3.31	70.5 K=1.00	3.9761	-52.55	124.38	0.422 ¹
T10	200 - 180	2 1/4	20.00	3.31	70.5 K=1.00	3.9761	-55.51	124.38	0.446 ¹
T11	180 - 160	2 1/4	20.00	3.31	70.5 K=1.00	3.9761	-61.16	124.38	0.492 ¹
T12	160 - 140	2 1/4	20.00	3.31	70.5 K=1.00	3.9761	-61.88	124.38	0.497 ¹
T13	140 - 120	2 1/4	20.00	3.31	70.5 K=1.00	3.9761	-61.24	124.38	0.492 ¹
T14	120 - 100	2 1/4	20.00	3.31	70.5 K=1.00	3.9761	-64.55	124.38	0.519 ¹
T15	100 - 80	2 1/4	20.00	3.31	70.5 K=1.00	3.9761	-64.65	124.38	0.520 ¹
T16	80 - 60	2 1/4	20.00	3.31	70.5 K=1.00	3.9761	-64.37	124.38	0.518 ¹
T17	60 - 40	2 1/4	20.00	3.31	70.5 K=1.00	3.9761	-66.11	124.38	0.532 ¹
T18	40 - 20	2 1/4	20.00	3.31	70.5 K=1.00	3.9761	-67.46	124.38	0.542 ¹
T19	20 - 6.5625	2 1/4	13.44	3.32	70.8 K=1.00	3.9761	-67.34	124.05	0.543 ¹
T20	6.5625 - 0	2 1/4	6.79	2.29	48.9 K=1.00	3.9761	-69.50	150.25	0.463 ¹

¹ P_u / φP_n controls

Diagonal Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T1	380 - 360	1 1/4	4.46	4.25	114.2 K=0.70	1.2272	-6.57	20.02	0.328 ¹
T2	360 - 340	1 1/4	4.46	4.25	114.2 K=0.70	1.2272	-2.24	20.02	0.112 ¹
T3	340 - 320	1	4.46	4.22	141.7	0.7854	-4.61	8.84	0.522 ¹

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Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T4	320 - 300	1 1/4	4.46	4.18	K=0.70 112.5	1.2272	-5.46	20.42	0.267 ¹
T5	300 - 280	1	4.46	4.18	K=0.70 140.6	0.7854	-3.13	8.97	0.349 ¹
T6	280 - 260	1	4.46	4.18	K=0.70 140.6	0.7854	-2.10	8.97	0.234 ¹
T7	260 - 240	1	4.46	4.18	K=0.70 140.6	0.7854	-4.10	8.97	0.457 ¹
T8	240 - 220	1	4.46	4.18	K=0.70 140.6	0.7854	-3.77	8.97	0.420 ¹
T9	220 - 200	1	4.46	4.18	K=0.70 140.6	0.7854	-2.40	8.97	0.268 ¹
T10	200 - 180	1	4.46	4.18	K=0.70 140.6	0.7854	-3.42	8.97	0.381 ¹
T11	180 - 160	1	4.46	4.18	K=0.70 140.6	0.7854	-3.06	8.97	0.341 ¹
T12	160 - 140	1	4.46	4.18	K=0.70 140.6	0.7854	-2.02	8.97	0.225 ¹
T13	140 - 120	1	4.46	4.18	K=0.70 140.6	0.7854	-2.96	8.97	0.329 ¹
T14	120 - 100	1	4.46	4.18	K=0.70 140.6	0.7854	-2.11	8.97	0.235 ¹
T15	100 - 80	1	4.46	4.18	K=0.70 140.6	0.7854	-2.66	8.97	0.297 ¹
T16	80 - 60	1	4.46	4.18	K=0.70 140.6	0.7854	-3.51	8.97	0.391 ¹
T17	60 - 40	1	4.46	4.18	K=0.70 140.6	0.7854	-3.30	8.97	0.367 ¹
T18	40 - 20	1	4.46	4.18	K=0.70 140.6	0.7854	-2.12	8.97	0.236 ¹
T19	20 - 6.5625	1 1/4	4.47	4.19	K=0.70 112.7	1.2272	-2.62	20.37	0.129 ¹

¹ P_u / φP_n controls

Horizontal Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T1	380 - 360	7/8	3.00	2.85	109.6	0.6013	-6.94	10.35	0.670 ¹
T2	360 - 340	7/8	3.00	2.85	K=0.70 109.6	0.6013	-0.59	10.35	0.057 ¹
T3	340 - 320	7/8	3.00	2.83	K=0.70 108.8	0.6013	-1.07	10.45	0.102 ¹
T4	320 - 300	7/8	3.00	2.81	K=0.70 108.0	0.6013	-6.23	10.54	0.591 ¹
T5	300 - 280	7/8	3.00	2.81	K=0.70 108.0	0.6013	-1.38	10.54	0.131 ¹
T6	280 - 260	7/8	3.00	2.81	K=0.70 108.0	0.6013	-1.14	10.54	0.108 ¹
T7	260 - 240	7/8	3.00	2.81	K=0.70 108.0	0.6013	-1.19	10.54	0.112 ¹
T8	240 - 220	7/8	3.00	2.81	K=0.70 108.0	0.6013	-1.04	10.54	0.099 ¹

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Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T9	220 - 200	7/8	3.00	2.81	K=0.70 108.0	0.6013	-1.02	10.54	0.096 ¹
T10	200 - 180	7/8	3.00	2.81	K=0.70 108.0	0.6013	-1.10	10.54	0.104 ¹
T11	180 - 160	7/8	3.00	2.81	K=0.70 108.0	0.6013	-1.20	10.54	0.113 ¹
T12	160 - 140	7/8	3.00	2.81	K=0.70 108.0	0.6013	-1.20	10.54	0.114 ¹
T13	140 - 120	7/8	3.00	2.81	K=0.70 108.0	0.6013	-1.20	10.54	0.114 ¹
T14	120 - 100	7/8	3.00	2.81	K=0.70 108.0	0.6013	-1.26	10.54	0.119 ¹
T15	100 - 80	7/8	3.00	2.81	K=0.70 108.0	0.6013	-1.26	10.54	0.120 ¹
T16	80 - 60	7/8	3.00	2.81	K=0.70 108.0	0.6013	-1.25	10.54	0.118 ¹
T17	60 - 40	7/8	3.00	2.81	K=0.70 108.0	0.6013	-1.29	10.54	0.122 ¹
T18	40 - 20	7/8	3.00	2.81	K=0.70 108.0	0.6013	-1.31	10.54	0.124 ¹
T19	20 - 6.5625	7/8	3.00	2.81	K=0.70 108.0	0.6013	-1.31	10.54	0.125 ¹
T20	6.5625 - 0	9x3/8	1.99	1.80	K=0.70 199.5 K=1.00	3.3750	-1.23	19.16	0.064 ¹

¹ P_u / φP_n controls

Top Girt Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T1	380 - 360	7/8	3.00	2.85	109.6	0.6013	-0.79	10.35	0.076 ¹
T2	360 - 340	7/8	3.00	2.85	K=0.70 109.6	0.6013	-0.96	10.35	0.092 ¹
T3	340 - 320	7/8	3.00	2.83	K=0.70 108.8	0.6013	-1.07	10.45	0.102 ¹
T4	320 - 300	7/8	3.00	2.81	K=0.70 108.0	0.6013	-1.48	10.54	0.140 ¹
T5	300 - 280	7/8	3.00	2.81	K=0.70 108.0	0.6013	-1.38	10.54	0.131 ¹
T6	280 - 260	7/8	3.00	2.81	K=0.70 108.0	0.6013	-1.14	10.54	0.108 ¹
T7	260 - 240	7/8	3.00	2.81	K=0.70 108.0	0.6013	-1.19	10.54	0.112 ¹
T8	240 - 220	7/8	3.00	2.81	K=0.70 108.0	0.6013	-1.04	10.54	0.099 ¹
T9	220 - 200	7/8	3.00	2.81	K=0.70 108.0	0.6013	-1.02	10.54	0.096 ¹
T10	200 - 180	7/8	3.00	2.81	K=0.70 108.0	0.6013	-1.10	10.54	0.104 ¹
T11	180 - 160	7/8	3.00	2.81	K=0.70 108.0	0.6013	-1.20	10.54	0.113 ¹
T12	160 - 140	7/8	3.00	2.81	K=0.70 108.0	0.6013	-1.20	10.54	0.114 ¹

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Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _u K	Ratio $\frac{P_u}{\phi P_n}$
T13	140 - 120	7/8	3.00	2.81	K=0.70 108.0	0.6013	-1.20	10.54	0.114 ¹
T14	120 - 100	7/8	3.00	2.81	K=0.70 108.0	0.6013	-1.26	10.54	0.119 ¹
T15	100 - 80	7/8	3.00	2.81	K=0.70 108.0	0.6013	-1.26	10.54	0.120 ¹
T16	80 - 60	7/8	3.00	2.81	K=0.70 108.0	0.6013	-1.25	10.54	0.118 ¹
T17	60 - 40	7/8	3.00	2.81	K=0.70 108.0	0.6013	-1.29	10.54	0.122 ¹
T18	40 - 20	7/8	3.00	2.81	K=0.70 108.0	0.6013	-1.31	10.54	0.124 ¹
T19	20 - 6.5625	7/8	3.00	2.81	K=0.70 108.0	0.6013	-1.31	10.54	0.125 ¹
T20	6.5625 - 0	12x3/8	2.96	2.77	K=0.70 307.5 K=1.00	4.5000	-1.23	10.75	0.115 ¹

KL/R > 200 (C) - 792

¹ P_u / φP_n controls

Bottom Girt Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _u K	Ratio $\frac{P_u}{\phi P_n}$
T1	380 - 360	7/8	3.00	2.85	K=0.70 109.6	0.6013	-0.67	10.35	0.065 ¹
T2	360 - 340	7/8	3.00	2.85	K=0.70 109.6	0.6013	-0.59	10.35	0.057 ¹
T3	340 - 320	7/8	3.00	2.83	K=0.70 108.8	0.6013	-1.07	10.45	0.102 ¹
T4	320 - 300	7/8	3.00	2.81	K=0.70 108.0	0.6013	-1.48	10.54	0.140 ¹
T5	300 - 280	7/8	3.00	2.81	K=0.70 108.0	0.6013	-1.38	10.54	0.131 ¹
T6	280 - 260	7/8	3.00	2.81	K=0.70 108.0	0.6013	-1.14	10.54	0.108 ¹
T7	260 - 240	7/8	3.00	2.81	K=0.70 108.0	0.6013	-1.19	10.54	0.112 ¹
T8	240 - 220	7/8	3.00	2.81	K=0.70 108.0	0.6013	-1.04	10.54	0.099 ¹
T9	220 - 200	7/8	3.00	2.81	K=0.70 108.0	0.6013	-1.02	10.54	0.096 ¹
T10	200 - 180	7/8	3.00	2.81	K=0.70 108.0	0.6013	-1.10	10.54	0.104 ¹
T11	180 - 160	7/8	3.00	2.81	K=0.70 108.0	0.6013	-1.20	10.54	0.113 ¹
T12	160 - 140	7/8	3.00	2.81	K=0.70 108.0	0.6013	-1.20	10.54	0.114 ¹
T13	140 - 120	7/8	3.00	2.81	K=0.70 108.0	0.6013	-1.20	10.54	0.114 ¹
T14	120 - 100	7/8	3.00	2.81	K=0.70 108.0	0.6013	-1.26	10.54	0.119 ¹
T15	100 - 80	7/8	3.00	2.81	K=0.70 108.0	0.6013	-1.26	10.54	0.120 ¹

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Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T16	80 - 60	7/8	3.00	2.81	108.0 K=0.70	0.6013	-1.25	10.54	0.118 ¹
T17	60 - 40	7/8	3.00	2.81	108.0 K=0.70	0.6013	-1.29	10.54	0.122 ¹
T18	40 - 20	7/8	3.00	2.81	108.0 K=0.70	0.6013	-1.31	10.54	0.124 ¹
T19	20 - 6.5625	7/8	3.00	2.81	108.0 K=0.70	0.6013	-1.31	10.54	0.125 ¹

¹ P_u / φP_n controls

Torque-Arm Top Design Data

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T1	380 - 360 (801)	C12x20.7	3.46	3.39	50.9 K=1.00	6.0900	-2.21	172.19	0.013
T1	380 - 360 (802)	C12x20.7	3.46	3.39	50.9 K=1.00	6.0900	-2.59	172.19	0.015
T1	380 - 360 (805)	C12x20.7	3.46	3.39	50.9 K=1.00	6.0900	-2.46	172.19	0.014
T1	380 - 360 (806)	C12x20.7	3.46	3.39	50.9 K=1.00	6.0900	-2.46	172.19	0.014
T1	380 - 360 (809)	C12x20.7	3.46	3.39	50.9 K=1.00	6.0900	-2.20	172.19	0.013
T1	380 - 360 (810)	C12x20.7	3.46	3.39	50.9 K=1.00	6.0900	-2.61	172.19	0.015
T4	320 - 300 (813)	C12x20.7	3.46	3.37	50.6 K=1.00	6.0900	-1.31	172.48	0.008
T4	320 - 300 (814)	C12x20.7	3.46	3.37	50.6 K=1.00	6.0900	-1.92	172.48	0.011
T4	320 - 300 (817)	C12x20.7	3.46	3.37	50.6 K=1.00	6.0900	-1.63	172.48	0.009
T4	320 - 300 (818)	C12x20.7	3.46	3.37	50.6 K=1.00	6.0900	-1.57	172.48	0.009
T4	320 - 300 (821)	C12x20.7	3.46	3.37	50.6 K=1.00	6.0900	-1.30	172.48	0.008
T4	320 - 300 (822)	C12x20.7	3.46	3.37	50.6 K=1.00	6.0900	-2.02	172.48	0.012

Torque-Arm Top Bending Design Data

Section No.	Elevation ft	Size	M _{ux} kip-ft	φM _{ux} kip-ft	Ratio $\frac{M_{ux}}{\phi M_{ux}}$	M _{uy} kip-ft	φM _{uy} kip-ft	Ratio $\frac{M_{uy}}{\phi M_{uy}}$
T1	380 - 360 (801)	C12x20.7	-38.15	68.40	0.558	0.00	7.01	0.000
T1	380 - 360 (802)	C12x20.7	-38.66	68.40	0.565	-0.00	7.01	0.000
T1	380 - 360 (805)	C12x20.7	-38.23	68.40	0.559	0.00	7.01	0.000
T1	380 - 360 (806)	C12x20.7	-37.77	68.40	0.552	-0.00	7.01	0.000
T1	380 - 360 (809)	C12x20.7	-37.87	68.40	0.554	-0.00	7.01	0.000
T1	380 - 360 (810)	C12x20.7	-38.57	68.40	0.564	0.00	7.01	0.000

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Section No.	Elevation ft	Size	M_{ux} kip-ft	ϕM_{ux} kip-ft	Ratio $\frac{M_{ux}}{\phi M_{ux}}$	M_{uy} kip-ft	ϕM_{uy} kip-ft	Ratio $\frac{M_{uy}}{\phi M_{uy}}$
T4	320 - 300 (813)	C12x20.7	-28.48	68.47	0.416	0.00	7.01	0.000
T4	320 - 300 (814)	C12x20.7	-29.59	68.47	0.432	-0.00	7.01	0.000
T4	320 - 300 (817)	C12x20.7	-28.61	68.47	0.418	0.00	7.01	0.000
T4	320 - 300 (818)	C12x20.7	-28.03	68.47	0.409	-0.00	7.01	0.000
T4	320 - 300 (821)	C12x20.7	-28.15	68.47	0.411	-0.00	7.01	0.000
T4	320 - 300 (822)	C12x20.7	-29.48	68.47	0.431	-0.00	7.01	0.000

Torque-Arm Top Interaction Design Data

Section No.	Elevation ft	Size	Ratio $\frac{P_u}{\phi P_n}$	Ratio $\frac{M_{ux}}{\phi M_{ux}}$	Ratio $\frac{M_{uy}}{\phi M_{uy}}$	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
T1	380 - 360 (801)	C12x20.7	0.013	0.558	0.000	0.564	1.050	4.8.1
T1	380 - 360 (802)	C12x20.7	0.015	0.565	0.000	0.573	1.050	4.8.1
T1	380 - 360 (805)	C12x20.7	0.014	0.559	0.000	0.566	1.050	4.8.1
T1	380 - 360 (806)	C12x20.7	0.014	0.552	0.000	0.559	1.050	4.8.1
T1	380 - 360 (809)	C12x20.7	0.013	0.554	0.000	0.560	1.050	4.8.1
T1	380 - 360 (810)	C12x20.7	0.015	0.564	0.000	0.571	1.050	4.8.1
T4	320 - 300 (813)	C12x20.7	0.008	0.416	0.000	0.420	1.050	4.8.1
T4	320 - 300 (814)	C12x20.7	0.011	0.432	0.000	0.438	1.050	4.8.1
T4	320 - 300 (817)	C12x20.7	0.009	0.418	0.000	0.423	1.050	4.8.1
T4	320 - 300 (818)	C12x20.7	0.009	0.409	0.000	0.414	1.050	4.8.1
T4	320 - 300 (821)	C12x20.7	0.008	0.411	0.000	0.415	1.050	4.8.1
T4	320 - 300 (822)	C12x20.7	0.012	0.431	0.000	0.436	1.050	4.8.1

Tension Checks

Leg Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in ²	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
T1	380 - 360	1 3/4	20.00	3.31	90.7	2.4053	20.96	108.24	0.194 ¹
T3	340 - 320	2	20.00	0.08	2.0	3.1416	6.09	141.37	0.043 ¹
T4	320 - 300	2 1/4	20.00	3.31	70.5	3.9761	26.22	178.92	0.147 ¹
T5	300 - 280	2 1/4	20.00	0.08	1.8	3.9761	3.60	178.92	0.020 ¹

¹ $P_u / \phi P_n$ controls

Diagonal Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in ²	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
T1	380 - 360	1 1/4	4.46	4.25	163.1	1.2272	6.55	39.76	0.165 ¹

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Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T2	360 - 340	1 1/4	4.46	4.25	163.1	1.2272	2.08	39.76	0.052 ¹
T3	340 - 320	1	4.46	4.22	202.4	0.7854	4.28	25.45	0.168 ¹
T4	320 - 300	1 1/4	4.46	4.18	160.7	1.2272	5.02	39.76	0.126 ¹
T5	300 - 280	1	4.46	4.18	200.9	0.7854	2.29	25.45	0.090 ¹
T6	280 - 260	1	4.46	4.18	200.9	0.7854	1.29	25.45	0.051 ¹
T7	260 - 240	1	4.46	4.18	200.9	0.7854	3.35	25.45	0.132 ¹
T8	240 - 220	1	4.46	4.18	200.9	0.7854	3.09	25.45	0.122 ¹
T9	220 - 200	1	4.46	4.18	200.9	0.7854	1.63	25.45	0.064 ¹
T10	200 - 180	1	4.46	4.18	200.9	0.7854	2.57	25.45	0.101 ¹
T11	180 - 160	1	4.46	4.18	200.9	0.7854	2.21	25.45	0.087 ¹
T12	160 - 140	1	4.46	4.18	200.9	0.7854	1.13	25.45	0.044 ¹
T13	140 - 120	1	4.46	4.18	200.9	0.7854	1.97	25.45	0.077 ¹
T14	120 - 100	1	4.46	4.18	200.9	0.7854	1.25	25.45	0.049 ¹
T15	100 - 80	1	4.46	4.18	200.9	0.7854	1.93	25.45	0.076 ¹
T16	80 - 60	1	4.46	4.18	200.9	0.7854	2.65	25.45	0.104 ¹
T17	60 - 40	1	4.46	4.18	200.9	0.7854	2.37	25.45	0.093 ¹
T18	40 - 20	1	4.46	4.18	200.9	0.7854	1.18	25.45	0.046 ¹
T19	20 - 6.5625	1 1/4	4.47	4.19	161.0	1.2272	1.84	39.76	0.046 ¹

¹ P_u / φP_n controls

Horizontal Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T1	380 - 360	7/8	3.00	2.85	156.6	0.6013	7.56	19.48	0.388 ¹
T2	360 - 340	7/8	3.00	2.85	156.6	0.6013	0.59	19.48	0.030 ¹
T3	340 - 320	7/8	3.00	2.83	155.4	0.6013	1.07	19.48	0.055 ¹
T4	320 - 300	7/8	3.00	2.81	154.3	0.6013	7.03	19.48	0.361 ¹
T5	300 - 280	7/8	3.00	2.81	154.3	0.6013	1.38	19.48	0.071 ¹
T6	280 - 260	7/8	3.00	2.81	154.3	0.6013	1.14	19.48	0.059 ¹
T7	260 - 240	7/8	3.00	2.81	154.3	0.6013	1.94	19.48	0.100 ¹
T8	240 - 220	7/8	3.00	2.81	154.3	0.6013	1.04	19.48	0.054 ¹
T9	220 - 200	7/8	3.00	2.81	154.3	0.6013	1.05	19.48	0.054 ¹
T10	200 - 180	7/8	3.00	2.81	154.3	0.6013	1.68	19.48	0.086 ¹
T11	180 - 160	7/8	3.00	2.81	154.3	0.6013	1.20	19.48	0.061 ¹
T12	160 - 140	7/8	3.00	2.81	154.3	0.6013	1.20	19.48	0.061 ¹
T13	140 - 120	7/8	3.00	2.81	154.3	0.6013	1.43	19.48	0.074 ¹
T14	120 - 100	7/8	3.00	2.81	154.3	0.6013	1.26	19.48	0.065 ¹
T15	100 - 80	7/8	3.00	2.81	154.3	0.6013	1.26	19.48	0.065 ¹
T16	80 - 60	7/8	3.00	2.81	154.3	0.6013	1.83	19.48	0.094 ¹
T17	60 - 40	7/8	3.00	2.81	154.3	0.6013	1.29	19.48	0.066 ¹
T18	40 - 20	7/8	3.00	2.81	154.3	0.6013	1.31	19.48	0.067 ¹
T19	20 - 6.5625	7/8	3.00	2.81	154.3	0.6013	1.31	19.48	0.067 ¹
T20	6.5625 - 0	9x3/8	1.01	0.83	91.5	3.3750	1.23	109.35	0.011 ¹

¹ P_u / φP_n controls

Top Girt Design Data (Tension)

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Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T1	380 - 360	7/8	3.00	2.85	156.6	0.6013	0.78	19.48	0.040 ¹
T2	360 - 340	7/8	3.00	2.85	156.6	0.6013	0.59	19.48	0.030 ¹
T3	340 - 320	7/8	3.00	2.83	155.4	0.6013	1.07	19.48	0.055 ¹
T4	320 - 300	7/8	3.00	2.81	154.3	0.6013	1.48	19.48	0.076 ¹
T5	300 - 280	7/8	3.00	2.81	154.3	0.6013	1.38	19.48	0.071 ¹
T6	280 - 260	7/8	3.00	2.81	154.3	0.6013	1.14	19.48	0.059 ¹
T7	260 - 240	7/8	3.00	2.81	154.3	0.6013	1.19	19.48	0.061 ¹
T8	240 - 220	7/8	3.00	2.81	154.3	0.6013	1.04	19.48	0.054 ¹
T9	220 - 200	7/8	3.00	2.81	154.3	0.6013	1.02	19.48	0.052 ¹
T10	200 - 180	7/8	3.00	2.81	154.3	0.6013	1.10	19.48	0.056 ¹
T11	180 - 160	7/8	3.00	2.81	154.3	0.6013	1.20	19.48	0.061 ¹
T12	160 - 140	7/8	3.00	2.81	154.3	0.6013	1.20	19.48	0.061 ¹
T13	140 - 120	7/8	3.00	2.81	154.3	0.6013	1.20	19.48	0.062 ¹
T14	120 - 100	7/8	3.00	2.81	154.3	0.6013	1.26	19.48	0.065 ¹
T15	100 - 80	7/8	3.00	2.81	154.3	0.6013	1.26	19.48	0.065 ¹
T16	80 - 60	7/8	3.00	2.81	154.3	0.6013	1.25	19.48	0.064 ¹
T17	60 - 40	7/8	3.00	2.81	154.3	0.6013	1.29	19.48	0.066 ¹
T18	40 - 20	7/8	3.00	2.81	154.3	0.6013	1.31	19.48	0.067 ¹
T19	20 - 6.5625	7/8	3.00	2.81	154.3	0.6013	1.31	19.48	0.067 ¹
T20	6.5625 - 0	12x3/8	2.96	2.77	307.5	4.5000	9.03	145.80	0.062 ¹

¹ P_u / φP_n controls

Bottom Girt Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T1	380 - 360	7/8	3.00	2.85	156.6	0.6013	1.22	19.48	0.063 ¹
T2	360 - 340	7/8	3.00	2.85	156.6	0.6013	0.59	19.48	0.030 ¹
T3	340 - 320	7/8	3.00	2.83	155.4	0.6013	1.07	19.48	0.055 ¹
T4	320 - 300	7/8	3.00	2.81	154.3	0.6013	1.48	19.48	0.076 ¹
T5	300 - 280	7/8	3.00	2.81	154.3	0.6013	1.38	19.48	0.071 ¹
T6	280 - 260	7/8	3.00	2.81	154.3	0.6013	1.14	19.48	0.059 ¹
T7	260 - 240	7/8	3.00	2.81	154.3	0.6013	1.19	19.48	0.061 ¹
T8	240 - 220	7/8	3.00	2.81	154.3	0.6013	1.04	19.48	0.054 ¹
T9	220 - 200	7/8	3.00	2.81	154.3	0.6013	1.02	19.48	0.052 ¹
T10	200 - 180	7/8	3.00	2.81	154.3	0.6013	1.10	19.48	0.056 ¹
T11	180 - 160	7/8	3.00	2.81	154.3	0.6013	1.20	19.48	0.061 ¹
T12	160 - 140	7/8	3.00	2.81	154.3	0.6013	1.20	19.48	0.061 ¹
T13	140 - 120	7/8	3.00	2.81	154.3	0.6013	1.20	19.48	0.062 ¹
T14	120 - 100	7/8	3.00	2.81	154.3	0.6013	1.26	19.48	0.065 ¹
T15	100 - 80	7/8	3.00	2.81	154.3	0.6013	1.26	19.48	0.065 ¹
T16	80 - 60	7/8	3.00	2.81	154.3	0.6013	1.25	19.48	0.064 ¹
T17	60 - 40	7/8	3.00	2.81	154.3	0.6013	1.29	19.48	0.066 ¹
T18	40 - 20	7/8	3.00	2.81	154.3	0.6013	1.31	19.48	0.067 ¹
T19	20 - 6.5625	7/8	3.00	2.81	154.3	0.6013	1.44	19.48	0.074 ¹

¹ P_u / φP_n controls

Top Guy Pull-Off Design Data (Tension)

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Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T7	260 - 240	3x3/8	3.00	2.81	311.8	1.1250	3.63	36.45	0.100 ¹
T10	200 - 180	3x3/8	3.00	2.81	311.8	1.1250	3.15	36.45	0.086 ¹
T13	140 - 120	3x3/8	3.00	2.81	311.8	1.1250	2.68	36.45	0.074 ¹
T16	80 - 60	3x3/8	3.00	2.81	311.8	1.1250	3.42	36.45	0.094 ¹

¹ P_u / φP_n controls

Top Guy Pull-Off Bending Design Data

Section No.	Elevation ft	Size	M _{ux} kip-ft	φM _{ux} kip-ft	Ratio $\frac{M_{ux}}{\phi M_{ux}}$	M _{uy} kip-ft	φM _{uy} kip-ft	Ratio $\frac{M_{uy}}{\phi M_{uy}}$
T7	260 - 240	3x3/8	0.00	2.28	0.000	0.00	0.28	0.000
T10	200 - 180	3x3/8	0.00	2.28	0.000	0.00	0.28	0.000
T13	140 - 120	3x3/8	0.00	2.28	0.000	0.00	0.28	0.000
T16	80 - 60	3x3/8	0.00	2.28	0.000	0.00	0.28	0.000

Top Guy Pull-Off Interaction Design Data

Section No.	Elevation ft	Size	Ratio $\frac{P_u}{\phi P_n}$	Ratio $\frac{M_{ux}}{\phi M_{ux}}$	Ratio $\frac{M_{uy}}{\phi M_{uy}}$	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
T7	260 - 240	3x3/8	0.100	0.000	0.000	0.100 ¹	1.050	4.8.1
T10	200 - 180	3x3/8	0.086	0.000	0.000	0.086 ¹	1.050	4.8.1
T13	140 - 120	3x3/8	0.074	0.000	0.000	0.074 ¹	1.050	4.8.1
T16	80 - 60	3x3/8	0.094	0.000	0.000	0.094 ¹	1.050	4.8.1

¹ P_u / φP_n controls

Torque-Arm Top Design Data

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T1	380 - 360 (801)	C12x20.7	3.46	3.39	50.9	4.4089	0.12	191.79	0.001
T1	380 - 360 (802)	C12x20.7	3.46	3.39	50.9	4.4089	0.71	191.79	0.004
T1	380 - 360 (805)	C12x20.7	3.46	3.39	50.9	4.4089	3.29	191.79	0.017
T1	380 - 360 (806)	C12x20.7	3.46	3.39	50.9	4.4089	3.30	191.79	0.017
T1	380 - 360 (809)	C12x20.7	3.46	3.39	50.9	4.4089	0.14	191.79	0.001
T1	380 - 360 (810)	C12x20.7	3.46	3.39	50.9	4.4089	3.04	191.79	0.016
T4	320 - 300 (813)	C12x20.7	3.46	3.37	50.6	4.4089	0.66	191.79	0.003
T4	320 - 300 (814)	C12x20.7	3.46	3.37	50.6	4.4089	0.13	191.79	0.001
T4	320 - 300 (817)	C12x20.7	3.46	3.37	50.6	4.4089	0.11	191.79	0.001
T4	320 - 300 (818)	C12x20.7	3.46	3.37	50.6	4.4089	0.17	191.79	0.001
T4	320 - 300 (821)	C12x20.7	3.46	3.37	50.6	4.4089	0.61	191.79	0.003
T4	320 - 300 (822)	C12x20.7	3.46	3.37	50.6	4.4089	0.03	191.79	0.000

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Torque-Arm Top Bending Design Data

Section No.	Elevation ft	Size	M_{ux} kip-ft	ϕM_{ux} kip-ft	Ratio $\frac{M_{ux}}{\phi M_{ux}}$	M_{uy} kip-ft	ϕM_{uy} kip-ft	Ratio $\frac{M_{uy}}{\phi M_{uy}}$
T1	380 - 360 (801)	C12x20.7	-35.69	68.40	0.522	-0.00	7.01	0.000
T1	380 - 360 (802)	C12x20.7	-29.45	68.40	0.431	0.00	7.01	0.000
T1	380 - 360 (805)	C12x20.7	-30.65	68.40	0.448	-0.00	7.01	0.000
T1	380 - 360 (806)	C12x20.7	-30.18	68.40	0.441	-0.00	7.01	0.000
T1	380 - 360 (809)	C12x20.7	-35.48	68.40	0.519	0.00	7.01	0.000
T1	380 - 360 (810)	C12x20.7	-29.04	68.40	0.425	0.00	7.01	0.000
T4	320 - 300 (813)	C12x20.7	-26.22	68.47	0.383	-0.00	7.01	0.000
T4	320 - 300 (814)	C12x20.7	-27.16	68.47	0.397	-0.00	7.01	0.000
T4	320 - 300 (817)	C12x20.7	-27.96	68.47	0.408	-0.00	7.01	0.000
T4	320 - 300 (818)	C12x20.7	-27.29	68.47	0.399	0.00	7.01	0.000
T4	320 - 300 (821)	C12x20.7	-26.03	68.47	0.380	0.00	7.01	0.000
T4	320 - 300 (822)	C12x20.7	-27.17	68.47	0.397	0.00	7.01	0.000

Torque-Arm Top Interaction Design Data

Section No.	Elevation ft	Size	Ratio $\frac{P_u}{\phi P_n}$	Ratio $\frac{M_{ux}}{\phi M_{ux}}$	Ratio $\frac{M_{uy}}{\phi M_{uy}}$	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
T1	380 - 360 (801)	C12x20.7	0.001	0.522	0.000	0.522	1.050	4.8.1
T1	380 - 360 (802)	C12x20.7	0.004	0.431	0.000	0.432	1.050	4.8.1
T1	380 - 360 (805)	C12x20.7	0.017	0.448	0.000	0.457	1.050	4.8.1
T1	380 - 360 (806)	C12x20.7	0.017	0.441	0.000	0.450	1.050	4.8.1
T1	380 - 360 (809)	C12x20.7	0.001	0.519	0.000	0.519	1.050	4.8.1
T1	380 - 360 (810)	C12x20.7	0.016	0.425	0.000	0.432	1.050	4.8.1
T4	320 - 300 (813)	C12x20.7	0.003	0.383	0.000	0.385	1.050	4.8.1
T4	320 - 300 (814)	C12x20.7	0.001	0.397	0.000	0.397	1.050	4.8.1
T4	320 - 300 (817)	C12x20.7	0.001	0.408	0.000	0.409	1.050	4.8.1
T4	320 - 300 (818)	C12x20.7	0.001	0.399	0.000	0.399	1.050	4.8.1
T4	320 - 300 (821)	C12x20.7	0.003	0.380	0.000	0.382	1.050	4.8.1
T4	320 - 300 (822)	C12x20.7	0.000	0.397	0.000	0.397	1.050	4.8.1

Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail
T1	380 - 360	Leg	1 3/4	3	-28.79	62.31	46.2	Pass
T2	360 - 340	Leg	1 3/4	44	-24.63	62.31	39.5	Pass
T3	340 - 320	Leg	2	87	-47.57	93.69	50.8	Pass
T4	320 - 300	Leg	2 1/4	129	-76.53	130.60	58.6	Pass
T5	300 - 280	Leg	2 1/4	171	-69.42	130.60	53.2	Pass
T6	280 - 260	Leg	2 1/4	212	-58.81	130.60	45.0	Pass
T7	260 - 240	Leg	2 1/4	254	-61.30	130.60	46.9	Pass
T8	240 - 220	Leg	2 1/4	296	-51.71	130.60	39.6	Pass
T9	220 - 200	Leg	2 1/4	339	-52.55	130.60	40.2	Pass
T10	200 - 180	Leg	2 1/4	381	-55.51	130.60	42.5	Pass
T11	180 - 160	Leg	2 1/4	423	-61.16	130.60	46.8	Pass
T12	160 - 140	Leg	2 1/4	465	-61.88	130.60	47.4	Pass

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Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail
T13	140 - 120	Leg	2 1/4	506	-61.24	130.60	46.9	Pass
T14	120 - 100	Leg	2 1/4	547	-64.55	130.60	49.4	Pass
T15	100 - 80	Leg	2 1/4	589	-64.65	130.60	49.5	Pass
T16	80 - 60	Leg	2 1/4	631	-64.37	130.60	49.3	Pass
T17	60 - 40	Leg	2 1/4	673	-66.11	130.60	50.6	Pass
T18	40 - 20	Leg	2 1/4	715	-67.46	130.60	51.7	Pass
T19	20 - 6.5625	Leg	2 1/4	758	-67.34	130.25	51.7	Pass
T20	6.5625 - 0	Leg	2 1/4	787	-69.50	157.76	44.1	Pass
T1	380 - 360	Diagonal	1 1/4	36	-6.57	21.02	31.3	Pass
T2	360 - 340	Diagonal	1 1/4	83	-2.24	21.02	10.6	Pass
T3	340 - 320	Diagonal	1	96	-4.61	9.28	49.7	Pass
T4	320 - 300	Diagonal	1 1/4	156	-5.46	21.45	25.5	Pass
T5	300 - 280	Diagonal	1	208	-3.13	9.42	33.2	Pass
T6	280 - 260	Diagonal	1	250	-2.10	9.42	22.3	Pass
T7	260 - 240	Diagonal	1	263	-4.10	9.42	43.5	Pass
T8	240 - 220	Diagonal	1	336	-3.77	9.42	40.0	Pass
T9	220 - 200	Diagonal	1	348	-2.40	9.42	25.5	Pass
T10	200 - 180	Diagonal	1	394	-3.42	9.42	36.3	Pass
T11	180 - 160	Diagonal	1	460	-3.06	9.42	32.5	Pass
T12	160 - 140	Diagonal	1	473	-2.02	9.42	21.5	Pass
T13	140 - 120	Diagonal	1	527	-2.96	9.42	31.4	Pass
T14	120 - 100	Diagonal	1	586	-2.11	9.42	22.4	Pass
T15	100 - 80	Diagonal	1	598	-2.66	9.42	28.2	Pass
T16	80 - 60	Diagonal	1	642	-3.51	9.42	37.2	Pass
T17	60 - 40	Diagonal	1	714	-3.30	9.42	35.0	Pass
T18	40 - 20	Diagonal	1	756	-2.12	9.42	22.5	Pass
T19	20 - 6.5625	Diagonal	1 1/4	766	-2.62	21.39	12.3	Pass
T1	380 - 360	Horizontal	7/8	19	-6.94	10.87	63.9	Pass
T2	360 - 340	Horizontal	7/8	69	-0.59	10.87	5.4	Pass
T3	340 - 320	Horizontal	7/8	98	-1.07	10.97	9.7	Pass
T4	320 - 300	Horizontal	7/8	145	-6.23	11.07	56.2	Pass
T5	300 - 280	Horizontal	7/8	188	-1.38	11.07	12.4	Pass
T6	280 - 260	Horizontal	7/8	229	-1.14	11.07	10.3	Pass
T7	260 - 240	Horizontal	7/8	265	-1.19	11.07	10.7	Pass
T8	240 - 220	Horizontal	7/8	309	-1.04	11.07	9.4	Pass
T9	220 - 200	Horizontal	7/8	356	-1.02	11.07	9.2	Pass
T10	200 - 180	Horizontal	7/8	392	-1.10	11.07	9.9	Pass
T11	180 - 160	Horizontal	7/8	434	-1.20	11.07	10.8	Pass
T12	160 - 140	Horizontal	7/8	476	-1.20	11.07	10.8	Pass
T13	140 - 120	Horizontal	7/8	518	-1.20	11.07	10.9	Pass
T14	120 - 100	Horizontal	7/8	561	-1.26	11.07	11.4	Pass
T15	100 - 80	Horizontal	7/8	609	-1.26	11.07	11.4	Pass
T16	80 - 60	Horizontal	7/8	645	-1.25	11.07	11.2	Pass
T17	60 - 40	Horizontal	7/8	699	-1.29	11.07	11.6	Pass
T18	40 - 20	Horizontal	7/8	729	-1.31	11.07	11.8	Pass
T19	20 - 6.5625	Horizontal	7/8	777	-1.31	11.07	11.9	Pass
T20	6.5625 - 0	Horizontal	9x3/8	798	-1.23	20.11	6.1	Pass
T1	380 - 360	Top Girt	7/8	6	-0.79	10.87	7.2	Pass
T2	360 - 340	Top Girt	7/8	46	-0.96	10.87	8.8	Pass
T3	340 - 320	Top Girt	7/8	89	-1.07	10.97	9.7	Pass
T4	320 - 300	Top Girt	7/8	131	-1.48	11.07	13.4	Pass
T5	300 - 280	Top Girt	7/8	173	-1.38	11.07	12.4	Pass
T6	280 - 260	Top Girt	7/8	214	-1.14	11.07	10.3	Pass
T7	260 - 240	Top Girt	7/8	256	-1.19	11.07	10.7	Pass
T8	240 - 220	Top Girt	7/8	300	-1.04	11.07	9.4	Pass
T9	220 - 200	Top Girt	7/8	341	-1.02	11.07	9.2	Pass
T10	200 - 180	Top Girt	7/8	383	-1.10	11.07	9.9	Pass
T11	180 - 160	Top Girt	7/8	425	-1.20	11.07	10.8	Pass
T12	160 - 140	Top Girt	7/8	467	-1.20	11.07	10.8	Pass
T13	140 - 120	Top Girt	7/8	509	-1.20	11.07	10.9	Pass
T14	120 - 100	Top Girt	7/8	552	-1.26	11.07	11.4	Pass

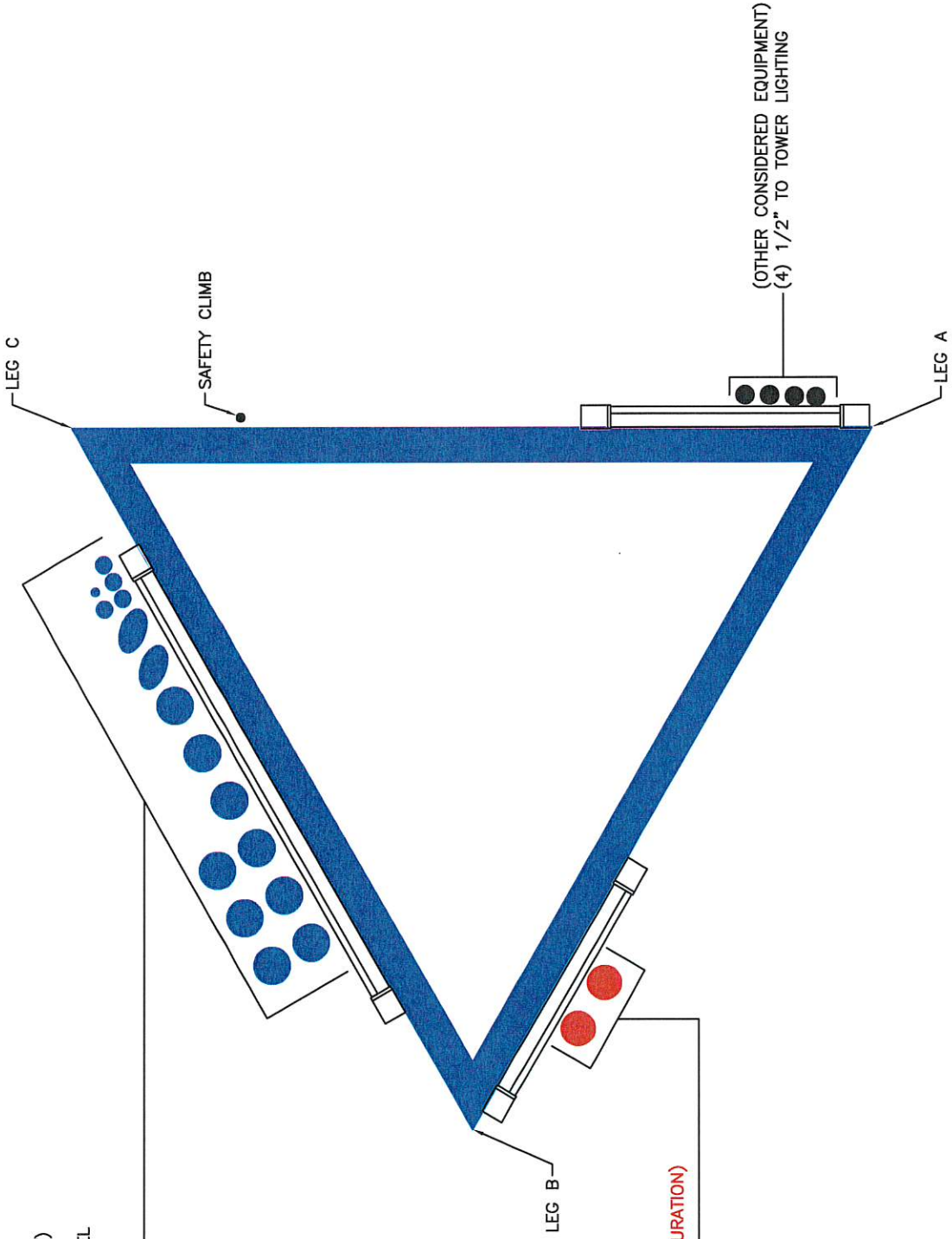
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	Project TEP No. 56544.700659	Date 17:52:59 05/19/22
	Client Crown Castle	Designed by myoung

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail
T15	100 - 80	Top Girt	7/8	594	-1.26	11.07	11.4	Pass
T16	80 - 60	Top Girt	7/8	636	-1.25	11.07	11.2	Pass
T17	60 - 40	Top Girt	7/8	678	-1.29	11.07	11.6	Pass
T18	40 - 20	Top Girt	7/8	720	-1.31	11.07	11.8	Pass
T19	20 - 6.5625	Top Girt	7/8	762	-1.31	11.07	11.9	Pass
T20	6.5625 - 0	Top Girt	12x3/8	792	-1.23	11.29	10.9	Pass
T1	380 - 360	Bottom Girt	7/8	8	-0.67	10.87	6.2	Pass
T2	360 - 340	Bottom Girt	7/8	51	-0.59	10.87	5.4	Pass
T3	340 - 320	Bottom Girt	7/8	92	-1.07	10.97	9.7	Pass
T4	320 - 300	Bottom Girt	7/8	134	-1.48	11.07	13.4	Pass
T5	300 - 280	Bottom Girt	7/8	176	-1.38	11.07	12.4	Pass
T6	280 - 260	Bottom Girt	7/8	217	-1.14	11.07	10.3	Pass
T7	260 - 240	Bottom Girt	7/8	259	-1.19	11.07	10.7	Pass
T8	240 - 220	Bottom Girt	7/8	303	-1.04	11.07	9.4	Pass
T9	220 - 200	Bottom Girt	7/8	344	-1.02	11.07	9.2	Pass
T10	200 - 180	Bottom Girt	7/8	386	-1.10	11.07	9.9	Pass
T11	180 - 160	Bottom Girt	7/8	428	-1.20	11.07	10.8	Pass
T12	160 - 140	Bottom Girt	7/8	470	-1.20	11.07	10.8	Pass
T13	140 - 120	Bottom Girt	7/8	512	-1.20	11.07	10.9	Pass
T14	120 - 100	Bottom Girt	7/8	555	-1.26	11.07	11.4	Pass
T15	100 - 80	Bottom Girt	7/8	597	-1.26	11.07	11.4	Pass
T16	80 - 60	Bottom Girt	7/8	639	-1.25	11.07	11.2	Pass
T17	60 - 40	Bottom Girt	7/8	681	-1.29	11.07	11.6	Pass
T18	40 - 20	Bottom Girt	7/8	723	-1.31	11.07	11.8	Pass
T19	20 - 6.5625	Bottom Girt	7/8	765	-1.31	11.07	11.9	Pass
T1	380 - 360	Guy A@366.694	5/8	807	14.30	26.71	53.5	Pass
T4	320 - 300	Guy A@306.694	5/8	819	11.97	26.71	44.8	Pass
T7	260 - 240	Guy A@246.694	5/8	828	12.27	26.71	45.9	Pass
T10	200 - 180	Guy A@186.694	1/2	834	9.42	16.95	55.6	Pass
T13	140 - 120	Guy A@126.694	7/16	840	7.30	13.10	55.7	Pass
T16	80 - 60	Guy A@66.6944	9/16	846	8.90	22.05	40.4	Pass
T1	380 - 360	Guy B@366.694	5/8	803	13.99	26.71	52.4	Pass
T4	320 - 300	Guy B@306.694	5/8	815	11.35	26.71	42.5	Pass
T7	260 - 240	Guy B@246.694	5/8	827	10.89	26.71	40.8	Pass
T10	200 - 180	Guy B@186.694	1/2	833	8.14	16.95	48.0	Pass
T13	140 - 120	Guy B@126.694	7/16	839	6.48	13.10	49.4	Pass
T16	80 - 60	Guy B@66.6944	9/16	845	8.22	22.05	37.3	Pass
T1	380 - 360	Guy C@366.694	5/8	800	14.06	26.71	52.6	Pass
T4	320 - 300	Guy C@306.694	5/8	812	11.46	26.71	42.9	Pass
T7	260 - 240	Guy C@246.694	5/8	823	10.97	26.71	41.1	Pass
T10	200 - 180	Guy C@186.694	1/2	829	8.18	16.95	48.3	Pass
T13	140 - 120	Guy C@126.694	7/16	835	6.57	13.10	50.1	Pass
T16	80 - 60	Guy C@66.6944	9/16	841	8.37	22.05	38.0	Pass
T7	260 - 240	Top Guy	3x3/8	825	3.63	38.27	9.5	Pass
T10	200 - 180	Pull-Off@246.694 Top Guy	3x3/8	831	3.15	38.27	8.2	Pass
T13	140 - 120	Pull-Off@186.694 Top Guy	3x3/8	837	2.68	38.27	7.0	Pass
T16	80 - 60	Pull-Off@126.694 Top Guy	3x3/8	843	3.42	38.27	8.9	Pass
T1	380 - 360	Pull-Off@66.6944 Torque Arm Top@366.694	C12x20.7	802	-2.59	180.80	54.5	Pass
T4	320 - 300	Torque Arm Top@306.694	C12x20.7	814	-1.92	181.10	41.7	Pass
							Summary	
						Leg (T4)	58.6	Pass
						Diagonal (T3)	49.7	Pass
						Horizontal (T1)	63.9	Pass

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	Project TEP No. 56544.700659	Date 17:52:59 05/19/22
	Client Crown Castle	Designed by myoung

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	θP_{allow} K	% Capacity	Pass Fail
						Top Girt (T4)	13.4	Pass
						Bottom Girt (T4)	13.4	Pass
						Guy A (T13)	55.7	Pass
						Guy B (T1)	52.4	Pass
						Guy C (T1)	52.6	Pass
						Top Guy Pull-Off (T7)	9.5	Pass
						Torque Arm Top (T1)	54.5	Pass
						Bolt Checks	25.0	Pass
						RATING =	63.9	Pass

APPENDIX B
BASE LEVEL DRAWING



- (OTHER CONSIDERED EQUIPMENT)
- (1) EW63 TO 101 FT LEVEL
 - (1) EWP63-65 TO 210 FT LEVEL
 - (1) 3/8" TO 378 FT LEVEL
 - (4) 3/4" TO 378 FT LEVEL
 - (9) 1-5/8" TO 378 FT LEVEL

- (PROPOSED EQUIPMENT CONFIGURATION)
- (2) 1-1/2" TO 340 FT LEVEL

APPENDIX C
ADDITIONAL CALCULATIONS

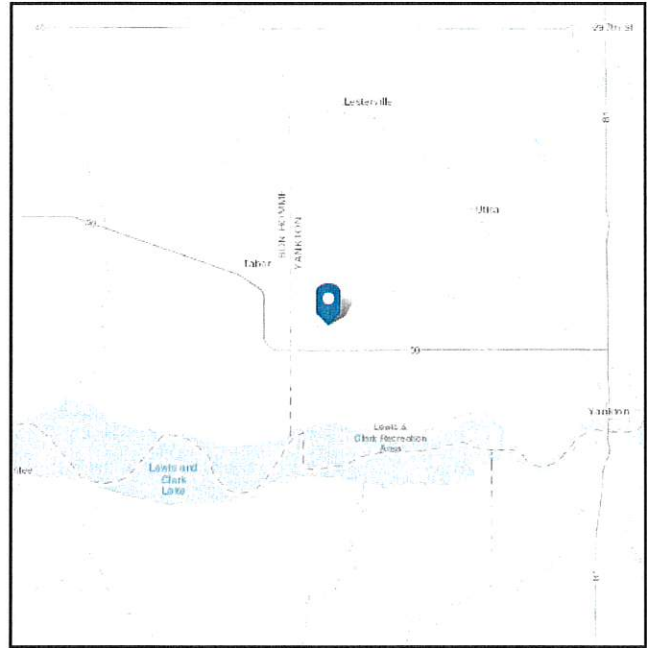
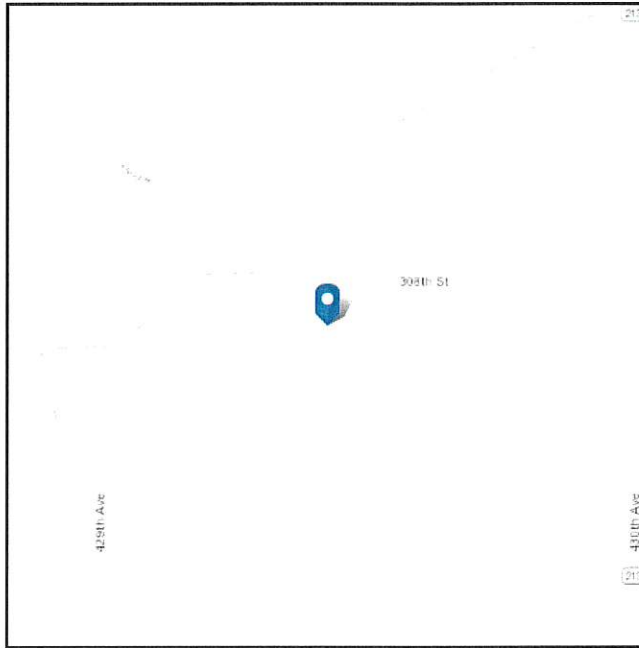


ASCE 7 Hazards Report

Address:
No Address at This
Location

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

Elevation: 1494.81 ft (NAVD 88)
Latitude: 42.921889
Longitude: -97.607



Wind

Results:

Wind Speed	113 Vmph
10-year MRI	78 Vmph
25-year MRI	86 Vmph
50-year MRI	91 Vmph
100-year MRI	97 Vmph

Data Source: ASCE/SEI 7-16, Fig. 26.5-1B and Figs. CC.2-1–CC.2-4, and Section 26.5.2
Date Accessed: Thu May 12 2022

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

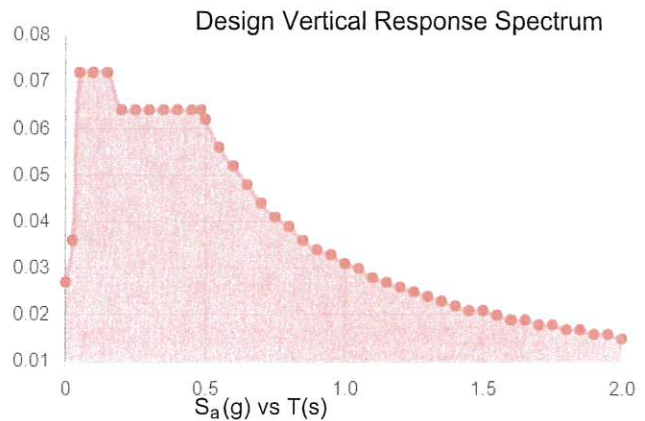
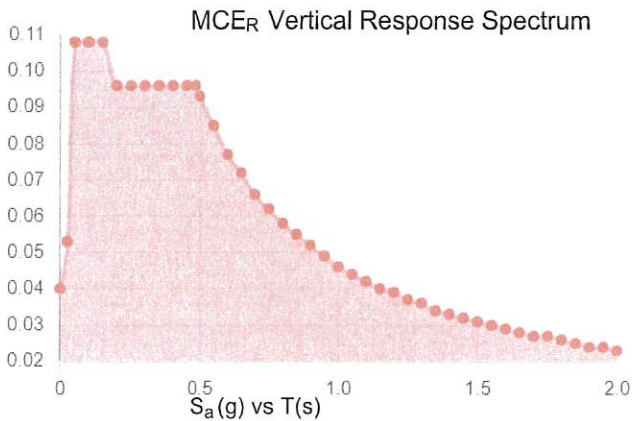
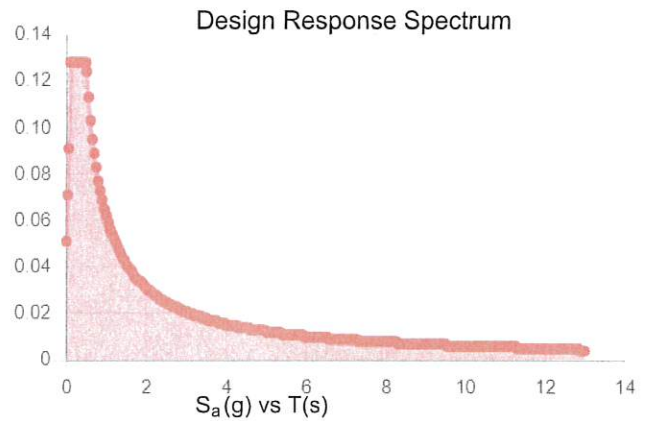
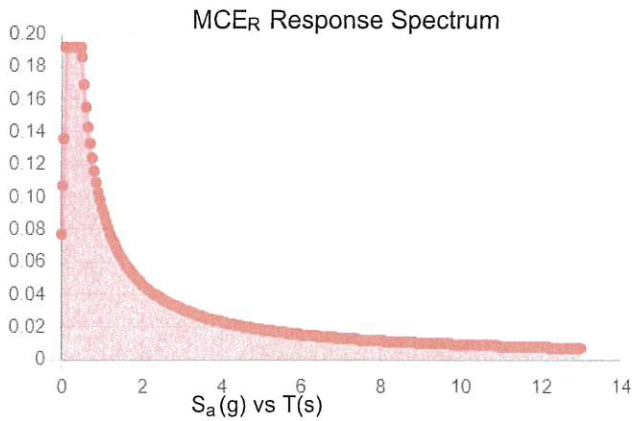
Site is not in a hurricane-prone region as defined in ASCE/SEI 7-16 Section 26.2.

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

Results:

S_S :	0.12	S_{D1} :	0.062
S_1 :	0.039	T_L :	12
F_a :	1.6	PGA :	0.062
F_v :	2.4	PGA _M :	0.099
S_{MS} :	0.192	F_{PGA} :	1.6
S_{M1} :	0.093	I_e :	1
S_{DS} :	0.128	C_v :	0.7

Seismic Design Category A



Data Accessed: Thu May 12 2022

Date Source:

USGS Seismic Design Maps based on ASCE/SEI 7-16 and ASCE/SEI 7-16 Table 1.5-2. Additional data for site-specific ground motion procedures in accordance with ASCE/SEI 7-16 Ch. 21 are available from USGS.

Ice

Results:

Ice Thickness: 1.00 in.
Concurrent Temperature: -5 F
Gust Speed 50 mph

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

Date Accessed: Thu May 12 2022

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

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

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

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Pier and Pad Foundation



BU # : 857981
 Site Name: Zod_Alltel_SD09_T
 App. Number: 603055 Rev. 0

TIA-222 Revision: H
 Tower Type: Guyed

Top & Bot. Pad Rein. Different?:
 Block Foundation?:
 Rectangular Pad?:

Superstructure Analysis Reactions		
Compression, P_{comp} :	198	kips
Base Shear, V_{u_comp} :	1	kips
Moment, M_u :		ft-kips
Tower Height, H :	380	ft
BP Dist. Above Fdn, bp_{dist} :	1.5	in
Bolt Circle / Bearing Plate Width, BC :		in

Pier Properties		
Pier Shape:	Circular	
Pier Diameter, $dpier$:	2.5	ft
Ext. Above Grade, E :	0.5	ft
Pier Rebar Size, Sc :	7	
Pier Rebar Quantity, mc :	6	
Pier Tie/Spiral Size, St :	3	
Pier Tie/Spiral Quantity, mt :	5	
Pier Reinforcement Type:	Tie	
Pier Clear Cover, cc_{pier} :	3	in

Pad Properties		
Depth, D :	5	ft
Pad Width, W_1 :	13	ft
Pad Thickness, T :	3	ft
Pad Rebar Size (Bottom dir. 2), Sp_2 :	7	
Pad Rebar Quantity (Bottom dir. 2), mp_2 :	11	
Pad Clear Cover, cc_{pad} :	3	in

Material Properties		
Rebar Grade, F_y :	60	ksi
Concrete Compressive Strength, F'_c :	3	ksi
Dry Concrete Density, δ_c :	150	pcf

Soil Properties		
Total Soil Unit Weight, γ :	115	pcf
Ultimate Gross Bearing, Q_{ult} :	6.000	ksf
Cohesion, C_u :		ksf
Friction Angle, ϕ :		degrees
SPT Blow Count, N_{blows} :		
Base Friction, μ :	0.35	
Neglected Depth, N :	5.00	ft
Foundation Bearing on Rock?	No	
Groundwater Depth, gw :	6	ft

Foundation Analysis Checks				
	Capacity	Demand	Rating*	Check
Lateral (Sliding) (kips)	53.04	1.00	1.8%	Pass
Bearing Pressure (ksf)	3.60	2.00	53.0%	Pass
Overturning (kip*ft)	825.81	5.63	0.7%	Pass
Pier Flexure (Comp.) (kip*ft)	322.19	2.50	0.7%	Pass
Pier Compression (kip)	2343.24	200.21	8.1%	Pass
Pad Flexure (kip*ft)	926.34	212.82	21.9%	Pass
Pad Shear - 1-way (kips)	406.13	40.33	9.5%	Pass
Pad Shear - 2-way (Comp) (ksi)	0.164	0.018	10.7%	Pass
Flexural 2-way (Comp) (kip*ft)	1559.82	1.50	0.1%	Pass

*Rating per TIA-222-H Section 15.5

Structural Rating*:	21.9%
Soil Rating*:	53.0%

<--Toggle between Gross and Net

Guyed Anchor Block Foundation

Checks capacity of anchor blocks for a guyed tower.



BU#:	857981
Site Name:	Zod_Altiel_SD09_Tabor
Order Number:	603055 Rev. 0
Location:	

TIA-222 Revision: H

Design Reactions	
Shear, S:	69.00 kips
Uplift, Ua:	53.00 kips
Resultant Force, Rf:	87.01 kips
Tower Height, H:	380.00 ft
Guy Anchor Radius, R:	304.00 ft
Resultant Angle to Horizontal, θ :	37.5 deg

Guy Anchor Properties	
Depth to Bottom of Deadman, Da:	12 ft
Anchor Width, Wa:	3 ft
Anchor Thickness, Ta:	3 ft
Anchor Length, La:	13 ft
Concrete Volume, Vc:	4.3 yd ³
Toe Width, toe:	0 ft
Guyed Anchor Top Rebar Size, Sat:	7
No. of Bars in Top of Block:	5
Guyed Anchor Front Rebar Size, Saf:	7
No. of Bars in Front of Block:	5
Stirrup Size:	4
Anchor Shaft Diameter, ds:	2.25 in
Anchor Shaft Quantity, n:	1
Anchor Shaft Area Override:	in ²
Shear Lag Factor, u:	1

Material Properties	
Rebar Grade, Fy:	60 ksi
Concrete Strength, F'c:	3 ksi
Wt. Avg. Concrete Density, δ_c :	0.088 kcf
Clear Cover, cc:	3 in
Anchor Shaft Grade, Fy*:	50 ksi
Anchor Shaft Ultimate Strength, Fu*:	65 ksi

Design Checks				
	Capacity	Demand	Rating*	Check
Lateral Capacity (kips):	99.47	69.00	66.1%	Pass
Uplift Capacity (kips):	92.55	53.00	54.5%	Pass
Lateral Flexural Capacity (ft*kips):	419.61	112.13	25.4%	Pass
Uplift Flexural Capacity (ft*kips):	419.61	86.13	19.5%	Pass
Anchor Shaft (kips):	159.04	87.01	52.1%	Pass

*Rating per TIA-222-H Section 15.5

Anchor Shaft Rating:	52.1%
Structural Rating:	25.4%
Soil Rating:	66.1%

Neglect Depth, Neg:	6 ft
Groundwater Level, gw:	6 ft

Soil Properties:				
Layer	ϕ , deg	cu, ksf	δ , pcf	N (blows/ft)
1	0	0.000	110	6.00
2	0	0.750	48	12.00
				Ultimate fs (ksf)
				0.000
				0.750

*key: ϕ = Internal Angle of Friction
cu = Cohesion / Undrained Shear Strength
 δ = Buoyant Soil Unit Weight
d = Depth to Bottom of Layer
Ultimate fs = Geotechnical Report-provided skin friction / adhesion
N = SPT Blow Count

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PS Form 3800, August 2008. See Reverse for Instructions.

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Product	Qty	Unit Price	Price
First-Class Mail® Letter Tabor, SD 57063 Weight: 0 lb 0.40 oz Estimated Delivery Date Mon 08/01/2022 Certified Mail® Tracking #: 7012346000345228988	1		\$0.60
Total			\$4.60
First-Class Mail® Letter Pierre, SD 57501 Weight: 0 lb 0.10 oz Estimated Delivery Date Mon 08/01/2022 Certified Mail® Tracking #: 7012346000345229008	1		\$0.60
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First-Class Mail® Letter Tabor, SD 57063 Weight: 0 lb 0.50 oz Estimated Delivery Date Mon 08/01/2022 Certified Mail® Tracking #: 7012346000345228971	1		\$0.60
Total			\$4.60
First-Class Mail® Letter Yankton, SD 57078 Weight: 0 lb 0.50 oz Estimated Delivery Date Mon 08/01/2022 Certified Mail® Tracking #: 7012346000345229015	1		\$0.60
Total			\$4.60
First-Class Mail® Letter Tabor, SD 57063 Weight: 0 lb 0.40 oz Estimated Delivery Date Mon 08/01/2022 Certified Mail® Tracking #: 7012346000345229022	1		\$0.60
Total			\$4.60
First-Class Mail® Letter Yankton, SD 57078 Weight: 0 lb 0.40 oz Estimated Delivery Date Mon 08/01/2022 Certified Mail® Tracking #: 7012346000345229039	1		\$0.60
Total			\$4.60
First-Class Mail® Letter Tabor, SD 57063 Weight: 0 lb 0.10 oz Estimated Delivery Date Mon 08/01/2022 Certified Mail® Tracking #: 7012346000345229046	1		\$0.60
Total			\$4.60
First-Class Mail® Letter Yankton, SD 57078 Weight: 0 lb 0.50 oz Estimated Delivery Date Mon 08/01/2022 Certified Mail® Tracking #: 7012346000345228995	1		\$0.60
Total			\$4.60

AFFIDAVIT OF MAILING

I, Chrstitina Wilburn, hereby certify that on the 24th day of March, 2022, I mailed by first class mail, postage prepaid, a true and correct copy of the Notice of Public Hearing to all owners of real property lying within a 2640 feet radius of the proposed project to the most recent address of the recipient known to your Affiant.

A true and correct copy of the Notice of Public Hearing notification letters are attached as Exhibit #1 or #2.

A true and correct copy of the mailing list for owners of real property is attached as Exhibit #1A or #2A.

Dated the 24th day of August, 2022.

Christina Wilburn
(Name)
Affiant

Subscribed and sworn to before me this 24th day of August, 2022.

Catherine Olson
Notary Public - South Dakota
My commission expires: 09/24/23

(SEAL)



NOTIFICATION

August 22, 2022

Christina Wilburn/Crown Castle
3025 Highland Pkwy, Suite 400
Downers Grove, IL 60515

Dear Yankton County Property Owner:

The Yankton County Zoning Ordinance requires written notification describing a specific action be sent to the owners of real property lying within 2,640 feet of the property on which the below described action is proposed. The notice shall be given to each owner of record by depositing such notice in the United States Post Office not less than 10 days prior to the hearing date. Therefore, you are hereby notified. Please take a moment to review the notice of public hearing described below.

NOTICE OF PUBLIC HEARING

Notice is hereby given that a public hearing will be held before the Yankton County Commission, Yankton County, South Dakota, at 6:30 P.M. on the 6th day of September, 2022 at the Yankton County Government Center, Commissioners Chambers, 321 West Third St., Yankton, South Dakota.

Said hearing is to consider the following:

Applicant is requesting a Conditional Use Permit to add additional antennas to an existing tower per Article 25 section 2503. Said property is legally described as the Northwest Quarter (NW1/4) of Section Thirty-two (32), Township Ninety-four (94) North, Range Fifty-seven (57) West of the 5th P.M., Yankton County, South Dakota.

The application may be reviewed at the Zoning Administrators office, Yankton County Government Center, 321 West Third St., Yankton, S.D. or online at the Yankton County Website.

Sincerely,
Christina Wilburn
Petitioner

BERAN, BRIAN (D)
42855 SD HWY 50
TABOR SD 57063

KOTALIK, ARTHUR J REV TRUST (D)
906 WEST 15 ST
YANKTON SD 57078

KOTALIK, BENJAMIN J (D)
30878 429 AVE
TABOR SD 57063

NEDVED, HELEN K (D)
604 REGAL DR
YANKTON SD 57078

POKORNEY, AGNES A (D)
30847 430 AVE
TABOR SD 57063

REZAC FARMS INC (D)
42927 307 ST
TABOR SD 57063

SD DEPT OF TRANSPORTATION (D)
700 EAST BROADWAY AVE
PIERRE SD 57501

ZIMMERMAN, HENRY H REV TRUST (D)
43501 308 ST
YANKTON SD 57078

AFFIDAVIT OF MAILING

I, Christina Wilburn on Behalf of Crown Caste (Tower Owner), hereby certify that on the 28th day of July, 2022, I mailed by first class mail, postage prepaid, a true and correct copy of the Notice of Public Hearing to all owners of real property lying within a 2640 feet radius of the proposed project to the most recent address of the recipient known to your Affiant.

A true and correct copy of the Notice of Public Hearing notification letters are attached as Exhibit #1 or #2.

A true and correct copy of the mailing list for owners of real property is attached as Exhibit #1A or #2A.

Dated the 28th day of July, 2022.

Christina Wilburn

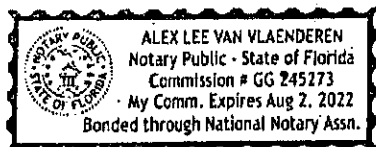
(Name)
Affiant

Subscribed and sworn to before me this 28th day of July, 2022.

[Signature]

Notary Public - ~~South Dakota~~ Florida
My commission expires: _____

(SEAL)



NOTIFICATION

July 25, 2022

Christina Wilburn/Crown Castle
3025 Highland Pkwy, Suite 400
Downers Grove, IL 60515

Dear Yankton County Property Owner:

The Yankton County Zoning Ordinance requires written notification describing a specific action be sent to the owners of real property lying within 2,640 feet of the property on which the below described action is proposed. The notice shall be given to each owner of record by depositing such notice in the United States Post Office not less than 10 days prior to the hearing date. Therefore, you are hereby notified. Please take a moment to review the notice of public hearing described below.

NOTICE OF PUBLIC HEARING

Notice is hereby given that a public hearing will be held before the Yankton County Planning Commission, Yankton County, South Dakota, at 7:10 P.M. on the 9th day of August, 2022 at the Yankton County Government Center, Commissioners Chambers, 321 West Third St., Yankton, South Dakota.

Said hearing is to consider the following:

Applicant is requesting a Conditional Use Permit to add additional antennas to an existing tower per Article 25 section 2503. Said property is legally described as the Northwest Quarter (NW1/4) of Section Thirty-two (32), Township Ninety-four (94) North, Range Fifty-seven (57) West of the 5th P.M., Yankton County, South Dakota.

The application may be reviewed at the Zoning Administrators office, Yankton County Government Center, 321 West Third St., Yankton, S.D. or online at the Yankton County Website.

Sincerely,
Christina Wilburn
Petitioner

BERAN, BRIAN (D)
42855 SD HWY 50
TABOR SD 57063

KOTALIK, ARTHUR J REV TRUST (D)
906 WEST 15 ST
YANKTON SD 57078

KOTALIK, BENJAMIN J (D)
30878 429 AVE
TABOR SD 57063

NEDVED, HELEN K (D)
604 REGAL DR
YANKTON SD 57078

POKORNEY, AGNES A (D)
30847 430 AVE
TABOR SD 57063

REZAC FARMS INC (D)
42927 307 ST
TABOR SD 57063

SD DEPT OF TRANSPORTATION (D)
700 EAST BROADWAY AVE
PIERRE SD 57501

ZIMMERMAN, HENRY H REV TRUST (D)
43501 308 ST
YANKTON SD 57078

2010 Legal and Public Notices

7-29 2nd NOTICE OF ADOPTION

ORDINANCE NO. 22-ZN-08 ESTABLISHING PERMANENT ZONING REGULATIONS FOR YANKTON COUNTY, SOUTH DAKOTA, PROVIDING FOR THE ADMINISTRATION, ENFORCEMENT, AND AMENDMENTS THEREOF; AND REPEALING ALL ORDINANCES OR PARTS OF ORDINANCES IN CONFLICT THEREWITH.

Notice is hereby given that Ordinance No. 22-ZN-08 establishing permanent zoning regulations for Yankton County, South Dakota. Applicant is requesting to rezone a property from Article 12 Rural Transitional District (RT) to Article 10 Commercial (C). Said property is described as:

The South One Hundred Sixteen Feet (S116) of Lot One (1) in the Southeast Quarter of the Northeast Quarter (SE1/4 NE1/4), Lot Two (2) in the Southeast Quarter of the Northeast Quarter (SE1/4 NE1/4); and Lot Three (3) in the Northeast Quarter of the Southeast Quarter (NE1/4 SE1/4), all located in Section Twenty-Four (24), Township Ninety-Four (94) North of Range Fifty-six (56), West of the 5th P.M., according to the duly recorded plat thereof in the office of the Yankton County Register of Deeds filed for record April 25, 1979 and recorded in Book 58, on page 144, subject to easements, restrictions, covenants and reservations of record AND Lot One (1), except the South One Hundred Sixteen Feet (S116) thereof, located in the Southeast Quarter of the Northeast Quarter (SE1/4 NE1/4), Section Twenty-four (24), Township Ninety-four (94) North of Range Fifty-six (56), West of the 5th P.M., Yankton County, South Dakota. E911 address is 30637 US HWY 81, Yankton, South Dakota

Yankton County is adopting this ordinance and map in order to protect the public health, safety, and general welfare. This ordinance was duly adopted by the County Commission on the 19th day of July, 2022, and will become effective on the 18th day of August, 2022.

First Reading: July 5, 2022

Second Reading: July 19, 2022

Publication Date: July 29, 2022 (Second Notice of Adoption)

Effective Date: August 18, 2022 (20 days after 2nd Notice of Adoption)

Dated this 19th day of July, 2022.

Joe Healy, Yankton County Commission Chair

ATTYEST:

Patty Hojem, Yankton County Auditor

Published once at the total approximate cost of \$29.12 and can be viewed free of charge at www.sdpublicnotices.com.

7-29 8-5 NOTICE OF PUBLIC HEARING

Notice is hereby given that a public hearing will be held before the Yankton County Planning Commission, Yankton County, South Dakota, at 7:05 P.M. on the 9th day of August, 2022 at the Yankton County Government Center, Commissioners Chambers, 321 West Third St., Yankton, South Dakota. Applicant is requesting to Rezone two parcels from Rural Transitional (RT) and Low Density Residential (LD) to Moderate Density Residential (MD) per Article 18 Section 1809 and Article 20 Section 2003. Said property is legally described as Lots 1 and 2 of Lewis and Clark Substation Addition in the Southwest Quarter of the Southwest Quarter of Section 15 and in the Northwest Quarter of the Northwest Quarter of Section 22, Township 93 North, Range 56 West of the 5th Principal Meridian, Yankton County, South Dakota. Containing 3.00 Acres more or less

NOTICE OF PUBLIC HEARING

Notice is hereby given that a public hearing will be held before the Yankton County Planning Commission, Yankton County, South Dakota, at 7:10 P.M. on the 9th day of August, 2022 at the Yankton County Government Center, Commissioners Chambers 321 West Third St.

2010 Legal and Public Notices

Hunkloff, Owner, 233 Broadway Avenue, Yankton, S.D.

NOTICE IS FURTHER GIVEN that a Public Hearing upon the application will be held on Monday, August 8, 2022 at 7:00 p.m. in the City of Yankton Community Meeting Room at the Career Manufacturing Technical Education Academy, 1200 West 21st Street, Yankton, South Dakota, where any person or persons interested in the approval or rejection of the above application may appear and be heard.

Dated at Yankton, South Dakota, This 25th day of July, 2022.

Al Viereck FINANCE

Published once at the total approximate cost of \$14.88 and can be viewed free of charge at www.sdpublicnotices.com.

YOUR NEWS! The Press and Dakotan

Walk

From Page 1

man who said that he is very thankful for that we do this walk and that we always include men in our walk. He said, "Thank you for remembering the men, because sometimes, the men and boys are abused as well."

RCDCV helps a lot of men each year, she said.

"The statistics may not show that we are helping as many men as women," Starzl Hansen said, "but it's important to reach out and let them know that we are here."

Everyone participating in the walk is doing so for a reason and a purpose, she said.

"They each have their own story that they're carrying with them when they walk across that bridge, and when you see them all walk together, it just pulls at your heartstrings to know that they're all coming together for a common cause and purpose," Starzl Hansen said.

Occurring in tandem with the Walk a Mile event will be Family Fun Day, also on the lawn, which runs from 11 a.m.-1 p.m. This family-oriented event features free activities, including inflatables, games, local heroes and a Game, Fish and Parks exhibit.

New this year is the dunk tank where participants will have the opportunity to donate to a good cause and try to dunk local celebrities, including Yankton School Resource Officer Skylar Russenberger (11 a.m.), Restore Church's Pastor Jeff Mueller (11:20 a.m.), Yankton High School Teacher Dave Dennenbring (11:40 a.m.), Breven Novak of the Yankton Fire Department (noon), Dr. David Withrow of Yankton Medical Clinic (12:20 p.m.) and Yankton Middle School Principal Heather Olson (12:40 p.m.).

The Family Fun Day raises money for River City Family Connections, a sister agency to RCDCV that provides court-ordered supervised visitation and supervised exchanges of children between guardians or parents.

"A lot of children who have grown up in domestic violence are living with someone that has been court ordered," Starzl Hansen said. "If there's some conflict in the home, it's just better if their parents don't come in contact with each other."

However, these visits can be expensive, she said.

"A lot of times, the parents can't afford the full hour or the two-hour visit that they get a week. Sometimes that's all they get a week with their

Chislic

From Page 1

the Legislature voted to name chislic the official state 'nosh,' or snack."

While a popular local favorite, chislic still remains an unknown by many, including South Dakotans and even sheep producers who provide the traditional meat.

Chislic resembles a shish-kebab and can be enjoyed as a snack or meal in itself. Usually, about a half-dozen cubes are served on a toothpick or small skewer with saline crackers, garlic salt and beer or other beverage on the side.

Different people use different methods of preparing their chislic, giving it a unique flavor, Baer said. Some people even work with other types of meat, such as beef, venison, chicken and even fish.

Saturday's chislic competition reflects the diverse approach to the meat, Baer said. A panel of celebrity judges will choose the winner, and the entrants take the challenge seriously.

"We have both the traditional and New Age competition," she said. "The traditional would be your standard lamb or mutton cubes on a stick. The New Age has been things like chislic pizza, something that's not prepared the traditional way or is unique to chislic."

A FUN TIME

Saturday's festivalgoers will be treated to a county fair-like atmosphere on the wide green space of the arboretum, walking trails and amphitheater seating with a small pond in front of the stage. A large tent will provide shade and a place to eat and relax. Visitors can play irisbee golf on the grounds.

A Kids Zone will offer a family-friendly place with fun items for the younger set. The Kids Zone will also feature representatives from the Miss South Dakota organization, including title holders, and a special story-time with Darrel Fickbohm at 11:30 a.m., 2 p.m. and 4 p.m.

The festival unofficially kicks off with a Freeman Lions BBQ from 5-8 p.m. tonight (Friday) at the Community Center located at 224 S. Wipf Street. The meal offers pork loin sandwiches and sides for a freewill donation with takeout available.

Saturday's schedule starts with the Salem Menonite Home again hosting a "motion run" featuring 10K and 5K races and a one-mile walk/run. Registration starts at 7:30 a.m. with the races beginning at 8 a.m. The start and finish lines are both located at the Salem Home.

The following is the day's schedule at the Prairie Arboretum:

- 10 a.m. Opening Ceremony;
10 a.m. until dusk, Helicopter rides;
10 a.m.-9 p.m. The festival runs all day with chislic and a wide variety of other food items, a beer tent by the Menno Fire Department and other beverages available for sale;
10 a.m.-7 p.m. BINGO by the Parker PFA;
10 a.m.-3 p.m. The Kid Zone, featuring child-friendly activities and appearances by Miss South Dakota representatives;
10:30 a.m. Live Music by Uncle Roy and the Boys;
11 a.m. and 1, 3 and 5 p.m. A presentation on "From Russia With Love: The History Of Chislic." South Dakota Chislic Festival board member and chislic expert Ian Tuttle will be joined by Marnette Hofer, executive director of

"Last year, we estimated around 10,000 people came to the festival. Freeman is 1,300-1,500 residents, so our population becomes seven times bigger for one day."

Spokeswoman Andrea Baer

ies, returns to his hometown for the noon performance. The afternoon sets feature Devon Sans from Rapid City and the Wildcard Band from Vermillion.

The final act represents a return performance, Baer said. "We are excited to welcome back Maggie in the Meantime to this year's festival!" she said. "Founded in September of 2009 in Sioux Falls and inspired by Celtic and folk forms both old and new, Maggie in the Meantime is a blend of ballad, folk and storytelling that gives the group a broad appeal with many types of audiences, in any age group or setting."

The Heritage Hall Museum and Archives of Freeman helped make possible the band's return for a second year, Baer said.

OTHER ACTIVITIES

There will also be a number of auxiliary events in conjunction with the festival.

Two bean bag tournaments organized by the Menno Pink Ladies Dart League, which raises funds for cancer patients. All proceeds will go toward that cause. The first tournament begins at 11 a.m. (10:30 a.m. registration) and the second starts at 3 p.m. (2:30 p.m. registration). Cost is \$30 per team and there will be a 50% payout to the top two teams.

Heritage Hall Museum & Archives will be open from 9 a.m. to 7 p.m.

Hootz Bar, located one block east of Freeman's Main Street, will host an alley dance from 9 p.m. to 1 a.m. Saturday night.

Festivalgoers are also encouraged to explore Freeman, but to also be aware of the major construction project downtown that is seeing the main business district roadway completely rebuilt.

While not part of the Chislic Festival, Freeman will also host the District 6B (South Central League) championship game at 7 p.m. Saturday. The hometown Black Sox face the Wineton Expos, with both team headed for the state tournament.

The South Dakota Chislic Festival has come a long way in a short time, Baer said.

Planning an event that would attract mostly local residents, organizers weren't prepared for the outpouring of visitors the first year. Whereas the committee was hopeful for 1,000 visitors, an estimated 10,000 people overflowed the original festival site along U.S. Highway 81.

The response that first year overwhelmed organizers and prompted them to move the festival from the Freeman softball field complex to the much

larger Prairie Arboretum in 2019.

After a year off in 2020 because of COVID-19, it returned in 2021 to an enthusiastic response that drew an estimated 8,000 to 10,000 guests.

CROSSWORD

By THOMAS JOSEPH

ACROSS

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7 Really impresses
26 Chides

Yesterday's answer

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31 Pressed
32 Home runs, slangily
33 Lion group
35 Leg bone
38 Token of love
42 Saloon supply

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AXYDLBAAXR is LONGFELLOW

One letter stands for another. In this sample, A is used for the three E's, X for the two O's, etc. Single letters, apostrophes, the length and formation of the words are all hints. Each day the code letters are different.

7-29

CRYPTOQUOTE

VWDQ PWDAD KAD QU CADKP PFC DAM FQ PWD NDDX GUZQPKFQM, DTDQ K GUQRDO BKQ SBUGD RFQC.

BWFQDMD XAUTDAS

Yesterday's Cryptoquote: WALKING WITH A FRIEND IN THE DARK IS BETTER THAN WALKING ALONE IN THE LIGHT. — HELEN KELLER

© 2018 King Features Syndicate, Inc.

Yankton Citywide Rummage advertisement featuring cartoon characters and a treasure chest.

Northwest Quarter (SE1/4 NE1/4); and Lot Three (3) in the Northeast Quarter of the Southwest Quarter (NE1/4 SE1/4), all located in Section Twenty-Four (24), Township Ninety-Four (94) North of Range Fifty-six (56), west of the 5th P.M., according to the duly recorded plat thereof in the office of the Yankton County Register of Deeds filed for record April 25, 1979 and recorded in Book 58, on page 144, subject to easements, restrictions, covenants and reservations of record AFD Lot One (1), except the South One Hundred Sixteen Feet (S116) thereof, located in the Southwest Quarter of the Northeast Quarter (SE1/4 NE1/4), Section Twenty-four (24), Township Ninety-four (94) North of Range Fifty-six (56), West of the 5th P.M., Yankton County, South Dakota. B911 address is 30637 US HWY 81, Yankton, South Dakota

Yankton County is adopting this ordinance and map in order to protect the public health, safety, and general welfare. This ordinance was first adopted by the County Commission on the 19th day of July, 2022, and will become effective on the 18th day of August, 2022.

First Reading: July 5, 2022
 Second Reading: July 19, 2022
 Publication Date: July 29, 2022 (Second Notice of Adoption)
 Effective Date: August 18, 2022 (20 days after 2nd Notice of Adoption)
 Dated this 19th day of July, 2022.

Joe Healy, Yankton County Commissioner Chair

ATTEST:
 Patty Hojem, Yankton County Auditor

Published once at the total approximate cost of \$29.12 and can be viewed free of charge at www.sd-publicnotice.com.

7:29 \$45 NOTICE OF PUBLIC HEARING

Notice is hereby given that a public hearing will be held before the Yankton County Planning Commission, Yankton County, South Dakota, at 7:05 P.M. on the 9th day of August, 2022 at the Yankton County Government Center, Commissioners Chambers, 321 West Third St., Yankton, South Dakota. Applicant is requesting to Rezone two parcels from Rural Transitional (RT) and Low Density Residential (LD) to Moderate Density Residential (MD) per Article 18 Section 1809 and Article 20 Section 2003. Said property is legally described as Lots 1 and 2 of Lewis and Clark Substation Addition in the Southwest Quarter of the Southwest Quarter of Section 15 and in the Northwest Quarter of the Northwest Quarter of Section 22, Township 93 North, Range 56 West of the 5th Principal Meridian, Yankton County, South Dakota. Containing 3.00 Acres more or less

NOTICE OF PUBLIC HEARING

Notice is hereby given that a public hearing will be held before the Yankton County Planning Commission, Yankton County, South Dakota, at 7:10 P.M. on the 9th day of August, 2022 at the Yankton County Government Center, Commissioners Chambers, 321 West Third St., Yankton, South Dakota. Applicant is requesting a Conditional Use Permit to add additional antennas to an existing tower per Article 23 section 2503. Said property is legally described as the Northwest Quarter (NW1/4) of Section Thirty-two (32), Township Ninety-four (94) North, Range Fifty-seven (57) West of the 5th P.M., Yankton County, South Dakota.

Published twice at the total approximate cost of \$33.12 and can be viewed free of charge at www.sd-publicnotice.com.

7:29 NOTICE OF HEARING UPON APPLICATION FOR SALE OF ALCOHOLIC BEVERAGES

NOTICE IS HEREBY GIVEN that an application has been received by the Board of City Commissioners of the City of Yankton, South Dakota, for a New Retail (on-off sale) Wine & Cider License for January 1, 2022, to December 31, 2022, from South Dakota Publishing, LLC d/b/a Meddy Mos Coffee House (Katie

YOUR NEWS!
 The Press and Dakotan

Walk

From Page 1.

man who said that he is very thankful that we do this walk and that we always include men in our walk. He said, "Thank you for remembering the men, because sometimes, the men and boys are abused as well."

RCDVC helps a lot of men each year, she said.

"The statistics may not show that we are helping as many men as women," Starzl Hansen said, "but it's important to reach out and let them know that we are here."

Everyone participating in the walk is doing so for a reason and a purpose, she said.

"They each have their own story that they're carrying with them when they walk across that bridge, and when you see them all walk together, it just pulls at your heartstrings to know that they're all coming together for a common cause and purpose," Starzl Hansen said.

Occurring in tandem with the Walk a Mile event will be Family Fun Day, also on the lawn, which runs from 11 a.m.-1 p.m. This family-oriented event features free activities, including inflatables, games, local heroes and a Game, Fish and Parks exhibit.

New this year is the dunk tank where participants will have the opportunity to donate to a good cause and try to dunk local celebrities, including Yankton School Resource Officer Skylar Russenberger (11 a.m.), Restore Church's Pastor Jeff Mueller (11:20 a.m.), Yankton High School Teacher Dave Dannenbring (11:40 a.m.), Bremen Novak of the Yankton Fire Department (noon), Dr. David Withrow of Yankton Medical Clinic (12:20 p.m.) and Yankton Middle School Principal Heather Olson (12:40 p.m.).

The Family Fun Day raises money for River City Family Connections, a sister agency to RCDVC that provides court-ordered supervised visitation and supervised exchanges of children between guardians or parents.

"A lot of children who have grown up in domestic violence are living with someone that has been court ordered," Starzl Hansen said. "If there's some conflict in the home, it's just better if their parents don't come in contact with each other."

However, these visits can be expensive, she said. "A lot of times, the parents can't afford the full hour or the two-hour visit that they get a week. Sometimes that's all they get a week with their child," Starzl Hansen said. "We do not ever want to turn away a parent from seeing their child because they can't afford it. This fundraiser raises money so that those parents can get a scholarship so that they can still see their child."

It's important for the child to be able to bond and reconnect with that parent, fix and mend a broken heart and move forward with their family, she said.

Family Fun Day was conceived with the goal of healthy families in mind.

"It's just a fun day for families to be together, do stuff for free and not have to worry about having to go out and pay for something," Starzl Hansen said. "They can go out, hang out for the day and reconnect."

For more information, call 605-665-4811.

Saturday's chislic competition reflects the diverse approach to the meat, Baer said. A panel of celebrity judges will choose the winner, and the entrants take the challenge seriously.

"We have both the traditional and New Age competition," she said. "The traditional would be your standard lamb or mutton cubes on a stick. The New Age has been things like chislic pizza, something that's not prepared the traditional way or is unique to chislic."

A FUN TIME

Saturday's festivalgoers will be treated to a county fair-like atmosphere on the wide green space of the arboretum, walking trails and amphitheater seating with a small pond in front of the stage. A large tent will provide shade and a place to eat and relax. Visitors can play frisbee golf on the grounds.

A Kids Zone will offer a family-friendly place with fun items for the younger set. The Kids Zone will also feature representatives from the Miss South Dakota organization, including title holders, and a special story-time with Darrel Pickbohm at 11:30 a.m., 2 p.m. and 4 p.m.

The festival unofficially kicks off with a Freeman Lions BBQ from 5-8 p.m. tonight (Friday) at the Community Center located at 224 S. Wipf Street. The meal offers pork loin sandwiches and sides for a free will donation with takeout available.

Saturday's schedule starts with the Salem Meenonite Home again hosting a "mutton run" featuring 10K and 5K races and a one-mile walk/run. Registration starts at 7:30 a.m. with the races beginning at 8 a.m. The start and finish lines are both located at the Salem Home.

The following is the day's schedule at the Prairie Arboretum:

- 10 a.m. Opening Ceremony;
 - 10 a.m. until dusk, Helicopter rides;
 - 10 a.m.-9 p.m. The festival runs all day with chislic and a wide variety of other food items, a beer tent by the Menno Fire Department and other beverages available for sale;
 - 10 a.m.-7 p.m. BINGO by the Parker FFA;
 - 10 a.m.-8 p.m. The Kid Zone, featuring child-friendly activities and appearances by Miss South Dakota representatives;
 - 10:30 a.m. Live Music by Uncle Roy and the Boys;
 - 11 a.m. and 1, 3 and 5 p.m. A presentation on "From Russia With Love: The History Of Chislic," South Dakota Chislic Festival board member and chislic expert Jan Tuttle will be joined by Marnette Hofer, executive director of the Heritage Hall and Museum and Archives, in presenting the program;
 - 11:30 a.m. and 2 and 4:30 p.m. Story Time in the Kid Zone tent with Darrel Pickbohm;
 - Noon: Live music by Elliot Graber and The Family Vine;
 - 2 p.m. Live Music with Devon Sants;
 - 4 p.m. Chislic judge introduction and contest winners;
 - 4:30 p.m. Live Music with The Wildcard Band;
 - 6:30 p.m. Live Music with Maggie In The Meantime.
- Baer expressed excitement about the line-up of bands at the Prairie Rose amphitheater, offering either entertainment for spectators or a pleasant backdrop for festivalgoers.
- Uncle Roy and the Boys, the opening band, comes from the Corsica-Armour area and has played in various venues.
- Elliot Graber, a Freeman native now living in the Twin Cit-

ies group or setting. The Heritage Hall Museum and Archives of Freeman helped make possible the band's return for a second year, Baer said.

OTHER ACTIVITIES

There will also be a number of auxiliary events in conjunction with the festival.

Two bean bag tournaments organized by the Menno Pink Ladies Dart League, which raises funds for cancer patients. All proceeds will go toward that cause. The first tournament begins at 11 a.m. (10:30 a.m. registration) and the second starts at 3 p.m. (2:30 p.m. registration). Cost is \$30 per team and there will be a 50% payout to the top two teams.

Heritage Hall Museum & Archives will be open from 9 a.m. to 7 p.m.

Hootz Bar, located one block east of Freeman's Main Street, will host an alley dance from 9 p.m. to 1 a.m. Saturday night.

Festivalgoers are also encouraged to explore Freeman, but to also be aware of the major construction project downtown as it seeing the main business district roadway completely rebuilt.

While not part of the Chislic Festival, Freeman will also host the District 6B (South Central League) championship game at 7 p.m. Saturday. The hometown Black Sox face the Wymot Expos, with both team headed for the state tournament.

The South Dakota Chislic Festival has come a long way in a short time, Baer said.

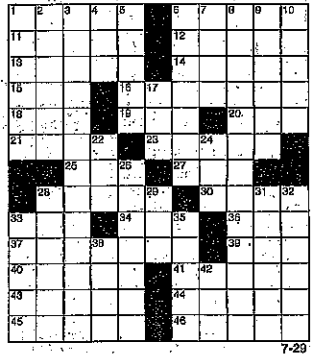
Planning an event that would attract mostly local residents, organizers weren't prepared for the outpouring of visitors the first year. Whereas the committee was hopeful for 1,000 visitors, an estimated 10,000 people overflowed the original festival site along U.S. Highway 81.

The response that first year overwhelmed organizers and prompted them to move the festival from the Freeman softball field complex to the much

known as "CHANTS LAWNS TOPES ELSE" Yesterday's answer

13 Shrink back to Bart over
 14 Hands over
 15 Wee bit
 16 Out in three
 18 Peyton's brother
 19 Use pews
 20 "— a girl!"
 21 Monthly bill
 23 Secluded spots
 25 Fly catcher
 27 Supporter's vote
 28 Jazz
 30 Give off
 33 Letter after upsilon
 34 Game caller
 36 Pitcher's stat
 37 Daily grind
 39 Nonsense
 40 Blockhead
 41 Portland setting

DOWN
 1 Lisa, to Bart
 2 Get over some air
 3 Attendant to a queen
 4 Binary digit
 5 High homes
 6 Without being said
 7 Really impresses
 8 Whoopi! Goldberg/
 9 Puts up
 10 Takes a breather
 17 Outfit
 22 Cowboy nickname
 24 Shoebox letters
 26 Chides
 28 Out of the sun
 29 Brief time
 31 Pressed
 32 Home runs, slangily
 33 Lion group
 35 Leg bone
 36 Token of love
 42 Saloon supply



A X Y D L B A A X R
 I S L O N G F E L L O W

One letter stands for another. In this sample, A is used for the three I's, X for the two O's, etc. Single letters, apostrophes, the length and formation of the words are all hints. Each day the code letters are different.

CRYPTOQUOTE

Yesterdays Cryptquote: WALKING WITH A FRIEND IN THE DARK IS BETTER THAN WALKING ALONE IN THE LIGHT. — HELEN KELLER

Yankton Citywide Rummage

Weekend Of August 11, 12 & 13

All Ads Will Run August 11, 12, & 13 in the P&D for just \$30

30 words and \$20 per word after 30. ONLY ONE ADDRESS ALLOWED IN EACH AD.

Stop By The Press & Dakotan To Place Your Ad OR email ads@yankton.net

INCLUDES:

- Your ad (30 words, 1 address per ad) placed in the Citywide Rummage Sale section published August 11, 12, 13
- Your ad will also appear on-line at www.yankton.net
- 2 Yard Signs

Sponsored by the **PRESS & DAKOTAN**

DEADLINE: 5PM, FRIDAY, AUGUST 5

1335 Other Employment
List Construction now hiring. Paid holidays & vacation. Pay DOE. Call 605-661-8003.

1340 Part-Time
Housekeeper Needed
Call 605-961-8093.

1435 Carpentry
A Full-time Carpenter Available. Available for odd jobs. Free estimates. Lots of experience. Call Bob Edwards at 605-685-8651.

1335 Other Employment

1455 Computer - Internet
BAYLOR COMPUTER SERVICES
Fast Service. House Calls.
Call Clay (605)760-9716

1605 Painting
Please Recycle!
Yankton Painting Interior/Exterior
• Commercial/Residential
• Farm/Ranch
Call today for a free estimate. 605-667-5686

1335 Other Employment

1555 Dogs - Puppies
Pure bred pug puppies. Vaccinated and dewormed. Ready to go now. Located near Tripp, SD. \$500 each. 605-935-2021.


Read and Recycle!

1335 Other Employment

not any provision, limitation or discrimination based on race, color, religion, sex, handicap, familial status or national origin, in the sale, rental or financing of housing or an intention to make any such preference, limitation or discrimination. Familial status includes children under the age of 18 living with parents or legal guardians, pregnant women and people securing custody of children under the age of 18.

In addition, South Dakota State Law also prohibits discrimination based on ancestry and creed.

This paper will not knowingly accept any advertising for real estate which is in violation of the law. All persons are hereby informed that all dwellings advertised are available on an equal opportunity basis. If you believe you have been discriminated against in connection with the sale, rental or financing of housing, call the South Dakota Fair Housing ombudsman at 877-832-0161.



Looking for a newer 4 bedroom, 3 bath, 3 stall garage home? This 2017 completed home may be the one. Great open concept with vaulted ceilings. 3 bedrooms and laundry on main floor. Master suite features walk-in closet and master bath with walk-in tile shower. Lower level boasts a large family/game area and additional bedroom and full bath. Sit out on your covered deck and enjoy the summer! It's just waiting for you!

2508 Dunham Dr., Yankton
\$379,000

21 CARLA SCHLINGMAN
CENTURY 21
Professional Real Estate
(605) 661-8643

NEW STARTING WAGE

Full-time day and night shifts with overtime and some weekends required. Anyone with a 2 year technical degree in machining or 3 to 4 years experience in CNC operating could earn up to **\$24.90 per hour**. With no experience starting day wage is **\$20.25** plus \$2.25 for night shift premium equals **\$22.50 (night)**. Excellent benefits package. Must be 18 years of age and have completed high school. Lifting requirements of 100 lbs. Background check and drug test will be conducted.

Apply in person at:
NET Northern Extrusion Tooling Inc.
906 W. 19th St., PO Box 562, Yankton, SD 57078 • 605-665-3603

1605 Apartment For Rent
1 & 2 Bedroom Orchard Square, 418 W. 16th, Yankton. Rent based on income and includes utilities. Non-smoking units. Equal Housing Opportunity. Skogen Company 605-665-1322 or 605-263-3941.

Please Recycle!

1605 Apartment For Rent
1 & 2 Bedroom Townhouses, Canyon Ridge, Yankton. Must qualify by family size and income. Non-smoking units. 605-664-8888 or Skogen Company 605-263-3941.

1630 Rummage Sales
1606 Kenley St. (Westbrook Estates)
Thursday, 8/4, 4pm-7pm
Friday, 8/5, 7am-7pm
Saturday, 8/6, 8am-12Noon
Huge Rummage/Moving Sale:
2018 Buick Envision, recliner, rocker glider, bedroom sets, desk, (pak)table & chairs, Singer sewing machine, bar stools, Traeger grill, bed & bath, home & kitchen, office, seasonal. Ladies clothing & shoes, excellent condition & so much more!

CITY OF YANKTON CITY MANAGER'S ASSISTANT

The City of Yankton is currently accepting applications for the position of City Manager's Assistant. Please visit www.cityofyankton.org/get-public-documents/employment or call (605) 668-6222 for more information regarding this position.

Yankton The City of Yankton is an equal opportunity provider and employer.

JOIN OUR TEAM.

Part Time Property Manager
Fox Run Townhomes

Oversee the day-to-day operations for Fox Run Townhomes in Yankton, SD
Position is 20hrs/week

Apply Online [at millsproperty.com/jobs](http://millsproperty.com/jobs)

MILLS PROPERTY MANAGEMENT
605.667.3182 | EOE

COOK: Full time
We are looking for someone who enjoys following recipes and preparing meals. Knowledge of kitchen equipment and experience is required. Work includes varied day and evening shifts, weekends and rotating holidays.

CNA/NA: Full time, evenings or nights
We are looking for someone to provide nursing care in our private long-term care center. No computer charting. Includes rotating weekends & holidays.

Come join us in a calm, caring work atmosphere!
Benefits available.

Apply at: **Sacred Heart Monastery**
1005 W 8th St., Yankton, SD 57078 • (605) 668-6284
www.yanktonbenedictines.org/jobs/

Are You Looking For A Job That Allows You To Grow, Advance And Learn? If So, Then Vishay Is For You

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Apply At:
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EOE/M/F/AAP
Pre-employment Drug Testing/Background Screening Required

JOB OPPORTUNITY

PART-TIME SPORTSWRITER

The Yankton (S.D.) Press & Dakotan, a five-day-a-week daily newspaper, is seeking applicants for two part-time sportswriting positions.

The positions will aid in covering a dynamic sports market that features an NCAA Division I college athletic program. The successful applicants will assist in the sports coverage, which will include taking area game reports, staffing area events and some feature writing.

Strong writing skills and sports knowledge are needed. Social media, photography and video skills are a plus.

To apply or for more details contact:
James D. Cimburek
Sports Editor
Yankton Daily Press & Dakotan
319 Walnut St., Yankton, SD 57078
(605) 665-7811, ext. 106
e-mail james.cimburek@yankton.net

YANKTON DAILY PRESS & DAKOTAN
EOE

1 BD Apts. Memory Lane. Ground level for elderly or persons with disabilities. No Smoking, close to The Center. Rent based on income. Non-smoking units. Equal Housing Opportunity. 605-780-4711 or Skogen Company 605-263-3941.

1-bedroom apartments. MEADOW PARK, \$575.00 per month, plus electricity with the heat being electric. Water, sewer, and garbage included with rent. Security Deposit of one months rent required. Initial six month lease, then month to month. Non-smoking units. 605-780-4711 or Skogen Company, 605-263-3941.

1-Bdrm. \$475. Scotland, SD. Free utilities. Pets Allowed. Remodeled. 605-464-0872 or 866-740-4560

1905 Paninah
Saturday, 8/6, 7am-3pm
Many household & kitchen items, small appliances, bedding, games, books. Stove-top smoker, 10-man tent, Boyds Bears, many Stampin'Up rubber stamp sets, Crafting books & supplies, fabric, crochet, counted cross stitch sewing, rubber stamping, much, much more! Cash only. No presales.

4-H Grounds
905 Whitting Drive
FRIDAY, 8/12, 9am-7pm
SATURDAY, 8/13, 8am-1pm
ESTATE SALE
MARK YOUR CALENDARS
Tools, welder, air compressor, JD riding mower, snowblower, sun heat heater. Antiques, 1899 Cedar Co. Platte Book, fridge, chest freezer, pottery. Household, stove, canning, record player and much more!
Don't miss this. CASH ONLY.

1-bedroom for elderly or persons with disabilities. CANYON RIDGE, 1700 Locust. Rent based on income. Non-smoking unit. Equal Housing Opportunity. 605-760-4711 or Skogen Company, 605-263-3941.

3-Bedroom Townhouse. Must qualify by family size and income. Non-smoking unit. Rent based on income. EHO 605-681-8601 or Skogen Company 605-263-3941.

1615 Houses For Rent
For Rent: 2-bedroom, 1-bath house in Tyndal SD. Single car garage, fenced backyard, laundry room. 605-760-6323.

1650 Houses For Sale
1900 & 1902 Dakota
Now building! 3 or 4 bedroom, 3-bath, 3-car garage, zero step entry duplexes. Contact JW Trimp 605-661-2191.

1705 Items \$100 or Less
4-drawer dresser \$75. 25-men's western shirts \$1/each. Call 605-665-8214.

1830 Rummage Sales
205 3rd St. Lesterville
Saturday, 8/6, 7am-12Noon
Furniture, curio cabinets, loveseat, chairs, chest of drawers. Dishes, Fenton glass, quilt material, books, canning jars, paper shredder, gate, Reznor, 37" TV, Harley Davidson clothing & riding boots, household items, much, much more! Cash only.

55614 898th Rd. St. Helena, NE
One mile south of river at South Yankton Highway 81 & 121
Friday, 8/5, 8am-6pm
Saturday, 8/6, 8am-6pm
Sunday, 8/7, 8am-6pm
Antique lamps, kitchen, list-top range, new AC 135-ETU's, engine puller. New & used chain saws & paint sprayers, metal shelving, and much more! Cash only.

2010 Legal and Public Notices
7:29 8:15
NOTICE OF PUBLIC HEARING

Notice is hereby given that a public hearing will be held before the Yankton County Planning Commission, Yankton County, South Dakota, at 7:05 P.M. on the 9th day of August, 2022 at the Yankton County Government Center, Commissioners Chambers, 321 West Third St., Yankton, South Dakota. Applicant is requesting to Rezone two parcels from Rural Transitional (RT) and Low Density Residential (LD) to Moderate Density Residential (MD) per Article 18 Section 1809 and Article 20 Section 2003. Said property is legally described as Lots 1 and 2

Child Care Stabilization Grant Program Offers Second Opportunity

of Lewis and Clark Substation Addition in the Southwest Quarter of the Southwest Quarter of Section 15 and in the Northwest Quarter of the Northwest Quarter of Section 22, Township 93 North, Range 56 West of the 5th Principal Meridian, Yankton County, South Dakota. Containing 3.00 Acres more or less

NOTICE OF PUBLIC HEARING

Notice is hereby given that a public hearing will be held before the Yankton County Planning Commission, Yankton County, South Dakota, at 7:10 P.M. on the 9th day of August, 2022 at the Yankton County Government Center, Commissioners Chambers, 321 West Third St., Yankton, South Dakota. Applicant is requesting a Conditional Use Permit to add additional antennas to an existing tower per Article 25 section 2502. Said property is legally described as the Northwest Quarter (NW1/4) of Section Thirty-two (32), Township Ninety-four (94) North, Range Fifty-seven (57) West of the 5th P.M., Yankton County, South Dakota.

Published twice at the total approximate cost of \$33.12 and can be viewed free of charge at www.sic-publicnotices.com.

8-5-12
IN THE STATE OF SOUTH DAKOTA, COUNTY OF YANKTON
IN CIRCUIT COURT, FIRST JUDICIAL CIRCUIT COURT

Rocket Mortgage, LLC *Plaintiff* vs. Quicken Loans, LLC *Defendant*

Annette Rouibdeaux and Gloria Rouibdeaux, as Presonal Representative of the Estate of Annette Rouibdeaux and Heirs & Devisees of the Estate of Annette Rouibdeaux, and any person in possession,

NOTICE OF REAL ESTATE SALE ON FORECLOSURE
CIVIL NUMBER: 66CIV12-000072

A Non-Monetary Judgment of Foreclosure was entered in favor of Plaintiff and against Defendants, which judgment was filed with the Clerk of Courts of Yankton County, South Dakota, on June 3, 2022, in the amount of \$113,619.49, for the foreclosure of a real estate mortgage.

Notice is hereby given pursuant to said judgment that the real property described in the Real Estate Mortgage dated June 14, 2017, and recorded in the office of the Register of Deeds of Yankton County, South Dakota, on June 27, 2017, in Book 535, at Page 346, within Annette Rouibdeaux, mortgagee, executed and delivered to Mortgage Electronic Registration Systems, Inc., as Mortgagee, as nominee for Quicken Loans Inc., its successors and assigns, mortgages, for the property located at 1106 Redmond St, Yankton, SD 57078, and legally described as:

Lots Three (3) and Four (4), Block One (1), Kazak's Replat of Block 10, West Yankton, City and County of Yankton, South Dakota, as per plat recorded in Book 55, Page 89

in order to realize the amount of the above-referenced judgment, plus interest accruing thereon on said amount, together with the costs and expenses of sale, will be sold subject to redemption as provided by law as one parcel of land at public auction, subject to easements and restrictions of record, to the highest bidder for cash under the direction of the Yankton County Sheriff at the main entrance of the Yankton County Courthouse located at 410 Walnut Street, Yankton, South Dakota 57078, on August 23, 2022 at 10:00 AM.

SHERIFF OF YANKTON COUNTY
By James C. Ylahaika

Halliday, Watkins & Mann, P.C.
Attorneys for Plaintiff

LINCOLN, Neb. — On April 8, 2022, the Nebraska Department of Health and Human Services (DHHS) Division of Children and Family Services (CFS) offered a second opportunity to Child Care Providers to apply for the Child Care Stabilization Grant, a program funded by Section 2202 of the American Rescue Plan Act (ARPA). This round of grants provides expanded eligibility to include providers licensed after March 11, 2021, as well as childcare providers who did not apply in the first round. DHHS accepted 302 applications, totaling approximately \$11 million, in this most recent application cycle bringing the total amount of applicants to 2,270 or nearly 80% of eligible providers in Nebraska. Grant payments were disbursed to providers in June 2022 and a second and final payment will be paid in September 2022.

To award grant money, CFS created

a grant funding formula based on a variety of factors, including targeted support to providers caring for children in underserved and lower-income areas of the state. Childcare providers had the opportunity to apply for these grant funds in a variety of categories including:

- Personnel costs, benefits, premium pay, and recruitment and retention;
- Rent or mortgage payments, utilities, facilities maintenance and improvements, or insurance;
- Personal Protective Equipment (PPE), cleaning and sanitation supplies and services, or training and professional development related to health and safety practices;
- Purchases of or updates to equipment and supplies needed to respond to COVID-19;
- Goods and services necessary to maintain or resume child care services

Including food costs, age appropriate educational materials, and bedding

- Mental health supports for children and employees;
- Co-payment and tuition relief for families struggling to make childcare payments (to the extent possible); and
- Paying for past financial losses incurred between March 13, 2020, and March 11, 2021, for those licensed before March 11, 2021.

For a comprehensive list of eligible expenses, visit the Child Care Stabilization Grant FAQ.

CFS, in partnership with Deloitte Consulting, developed a tracking tool for the public to view pertinent Child Care Stabilization Grant Data such as money allocated, money disbursed, and the number of recipients broken down by county, city, Legislative District, and Congressional District. To date, a total of \$104,289,675.00 has

been awarded to childcare providers.

"We honored our commitment to provide a second round of grant funds to providers who did not apply the first time," said CFS Director Stephanie Bensley. "The successful grant cycles impacted the statewide provider network and brought stability and reliability to a vital industry in Nebraska. The Child Care Stabilization Grants also ensure Nebraska families have access to quality childcare options and the childcare workforce is rewarded for the important work they do each day for the benefit of Nebraska children."

Childcare providers who need additional assistance in understanding the grant process can call 833-500-8810 Monday through Friday 8 a.m. to 5 p.m. to ask questions regarding their grants or the grant process.

Laurel

From Page 1

Early Thursday morning, the Cedar County sheriff's office received a call from the public about an incident in Laurel, Bolduc said.

"Just after 3 a.m. (Thursday) morning, the Cedar County 911 received a call about an explosion at the 209 Elm Street residence," he said. "The fire crews responded to this home and located an individual. That individual was deceased. The Laurel Police Department and the Cedar County Sheriff contacted the Nebraska State Patrol, who responded to the first scene."

As investigators were on the scene at the first residence, the second fire was reported at 503 Elm Street, Bolduc said.

"The fire crews and law enforcement located three individuals deceased inside that residence," he said. "The fire crews worked diligently to put out the fire and also to preserve evidence that may be located inside the home."

After fire suppression efforts were successful Thursday afternoon at the home in the 500 block of Elm Street, investiga-

tors were able to examine the crime scene. Besides confirming the presence of gunfire, investigators also believe the fire in the 500 block of Elm Street may have started around the same time as the reported explosion in the 200 block of Elm Street.

However, indications of that fire weren't visible outside the home for hours. Both incidents are now believed to have occurred shortly after 3 a.m. Thursday.

Based on that time frame, NSP is requesting anyone that may have seen anything out-of-the-ordinary in Laurel between midnight and 4 a.m. to report it immediately. Tips can be reported to (402) 479-4921.

Also, law enforcement received a report that a silver sedan was seen leaving Laurel westbound on Highway 20. The driver was identified as a black male who may have picked up a passenger before leaving town.

Additionally, based on this focused time frame of the fires, investigators now believe the previously sought silver sedan reported by a member of the public may have left Laurel much later after the incidents than previously thought.

Accelerants were used in both fires on Elm Street, so

the suspect may have suffered burns, Bolduc said. Any burn marks would serve as an identifying feature in locating the suspect, he added.

The NSP is asking for assistance from any witnesses, anyone who may have information regarding the crimes or who may have a security camera that could have captured images related to the incidents.

Bolduc expects to know more when authorities receive a report on the victims.

"In any of these incidents, we rely on the medical examiner and coroner to do an autopsy and steer us in the direction behind the cause of these deaths," he said.

When asked if the suspect knew the victims, Bolduc said it was too early to determine. He also wouldn't speculate whether the deaths were drug related, a domestic dispute or any other scenario.

"We're not categorizing anything at this point," he said. "We have multiple crime scenes with four dead. We're getting to the bottom of it, and it's very early in the investigation."

Also, fires at the scene tend to complicate investigations, he said.

"For Cedar County Sheriff Larry Koranda, the crimes liter-

ally hit close to home.

Koranda, a Laurel resident, described the town as a very safe, close-knit community where people know each other. However, he acknowledged Thursday's incidents were disturbing for residents.

People need to be diligent, and if they see something unusual they should contact the Nebraska State Patrol, the sheriff said.

Most Laurel businesses, a senior center and schools voluntarily went on lockdown at the recommendation of police, City Hall employee Lori Hansen told The Associated Press.

In response to the community events, the Laurel-Concord/Colebridge school district postponed a parent/athlete meeting set for Thursday. The meeting will now be held at 6 p.m. tonight (Friday) in the main gym at the Laurel campus.

Bolduc acknowledged the situation was unsettling for area residents.

"We have a message for the people of Laurel," he said. "An incident like this can shake a community, but we want to emphasize that we have an outstanding public safety team on the scene here (working) with a number of partners to keep the community safe."

This is a developing story. Follow The Press & Dakotan for updates online, on social media and in print.

Follow @RDockendorf on Twitter.

Walk

From Page 1

The Helpline Center is South Dakota's leader in suicide prevention and response, and it facilitates the national 988 Suicide and Crisis Lifeline. It's a direct connection to compassionate, accessible care and support for anyone experiencing mental health related distress, Hanson said.

"They also facilitate numerous suicide loss and grief services, a statewide teen texting line, lots of trainings and many other suicide prevention resources," she noted.

In the past, Bridging Yankton has used its funds to implement the Yankton High School (YHS) crisis texting line, purchased an updated social emotional curriculum for Yankton School District counselors and hosted district assemblies at Yankton Middle School and YHS focused on bullying and suicide prevention.

The 2020 walk was canceled, but last year, Bridging Yankton spent a large portion of its money in local classrooms for

teachers to purchase materials focused on mental health. This year, the group funded a speaker at Yankton's annual Mental Wellness Conference.

"Though Bridging Yankton is locally hosted by the United Way for its 501(c)(3) status and ability to manage donations, 'thank yous' and tax reporting, it began as a local grassroots organization in 2010."

"A lot of us had been impacted by suicide in one form or another, so we got together to say, 'How do we bring some hope and healing to our community?'" Hanson said, noting that a few of the members had been working with the Helpline Center and their suicide support and grief services. "They had participated in a Step Forward to Prevent Suicide walk in another community, and they really loved the fellowship and the hope and getting the community together to raise awareness about suicide."

Unfortunately, those left behind by a suicide are often unable to speak about it publicly, she said.

"I think as a suicide survivor — losing a parent when I was 15, and another parent at 24 — it is something that lives with you every day," Hanson said. "It

comes with a stigma about communicating about it to people and reopening that wound. It's difficult."

Fellowship is important in reversing the belief that survivors can't talk about their experience with suicide, affirming that it's OK to answer those questions, to say it out loud, to talk about it together and heal together, she said.

Happily, events like Saturday's walk help survivors share their stories out loud. But, there are more participants each year, which means that more people are being impacted by suicide, Hanson said.

Despite having had rainy conditions for five out of six years, Yankton's Step Forward walk has never been canceled due to the weather, she noted.

"Right now, there's a slight chance of rain, but I find rain is healing and therapeutic," Hanson said. "A little bit of rain is fitting, and it's a rain-or-shine event, so we will walk regardless."

For more information, call Helpline Center at 211, United Way of Greater Yankton at 605-665-5766 or email events@helplinecenter.org.

Dakota Yankton School District Superintendent Dr. Wayne Kinde was grateful to the Yankton firefighters and others in their efforts.

"I want to personally thank our local fire department and emergency personnel for their excellent response," he said. "Additionally, a special thanks

"We are working with our insurance company to assess damages and are in the process of obtaining a professional cleaning service to lead the cleaning efforts," Kinde said. "Our goal will be to start classes at Yankton Middle School on time, if possible."

The first day of school is

CROSSWORD

BY THOMAS JOSEPH

- ACROSS 40 Authentic
1 Power unit 41 Citi Field
5 Openings team
9 Sorbs
11 Choose 1 Some
13 Publicity 2 Director's act
14 Caruso, cry
15 Sewing flash
16 Tutor count
18 Fizzy 6 Guinness symmetry
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22 Cockpit a water hazard
23 Tatter 25 Ashen
24 Broker's advice 26 News star father

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Yesterday's answer

- 10 Increase 27 Goffer
12 Grove Hogan
17 makeup 28 Social ser-vice
19 Line of vice
30 Reside
22 Continents 31 Monopoly cards
24 Legendary 33 Cruising
25 Ashen 37 Flock

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17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	32
33	34	35	36	37	38	39	40

YMS

From Page 1

Nickles said there were up to six people in the building at the time of the incident, but all of them were safely outside

1335 Other Employment 1335 Other Employment

JOB OPPORTUNITY

PART-TIME SPORTSWRITER

The Yankton (S.D.) Press & Dakotan, a five-day-a-week daily newspaper, is seeking applicants for two part-time sportswriting positions.

The positions will aid in covering a dynamic sports market that features an NCAA Division I college athletic program. The successful applicants will assist in the sports coverage, which will include taking area game reports, staffing area events and some feature writing.

Strong writing skills and sports knowledge are needed; Social media, photography and video skills are a plus.

To apply or for more details contact:
James D. Climburek
Sports Editor
Yankton Daily Press & Dakotan
319 Walnut St., Yankton, SD 57078
(605) 665-7811, ext. 106
e-mail James.climburek@yankton.net

PRESS & DAKOTAN

1615 Houses For Rent

INCOME QUALIFIED NEW HOME RENTALS
Rental applications are now being taken for 4 new homes located in Utica, SD. These beautiful new homes have 3 bedrooms, 2 baths, full unfinished basements, new appliances, center kitchen island, window coverings, and two stall attached garages. These are income-based homes with limitations on gross household income. For more information or to receive an application call 605-664-4900. An equal housing opportunity project.

1650 Houses For Sale



1900 & 1902 Dakota
Now building! 3 or 4 bedroom, 3-bath, 3-car garage, zero step entry duplexes. Contact JW Tramp 605-661-2191.

1705 Items \$100 or Less

2-pair of men's new jeans 42x30 \$25/each. 1-pair men's new jeans 42x32, \$25. 1-pair of women's new Ariel jeans 32R \$25. 605-665-8214.

Boat Motor Elgin 2hp, Runs good, \$90 call 605-665-2349.

Men's medium tall black leather jacket, like new, \$25. 32-piece set of stemware: water, 2 size wine, sherry, has silver rim, \$20. 605-260-0685.

1830 Rummage Sales

103 Richard St. (Riverdale Acres) Friday, 8/26, 8am-6pm Saturday, 8/27, 8am-5pm
Toys, bikes, furniture, adult-kids clothes, pictures, books. Lots of tools, push lawnmowers and many more items not listed.

1403 Maple

Friday, 8/26, 4pm-6pm Saturday, 8/27, 8am-1pm
Lots of women's clothing size XL-3X, kids clothing, shoes, designer handbags, home decor. All clothing brand name, excellent condition. Cash only.

1850 Agriculture

For Sale: Chicken nests 1-in with 14-holes, 1-wood with 12-holes. Call 605-665-2349.

Round Bale Corn Stalks: Will swath, rake, bale. John Deere net wrapped baler. 605-280-0306.

2010 Legal and Public Notices

2nd NOTICE OF ADOPTION

ORDINANCE NO. 22-2N-09 ESTABLISHING PERMANENT ZONING REGULATIONS FOR YANKTON COUNTY, SOUTH DAKOTA, PROVIDING FOR THE ADMINISTRATION, ENFORCEMENT, AND AMENDMENTS THEREOF; AND REPEALING ALL ORDINANCES OR PARTS OF ORDINANCES IN CONFLICT THEREWITH.

Notice is hereby given that Ordinance No. 22-2N-09 establishing permanent zoning regulations for Yankton County, South Dakota. Applicant is requesting to rezone a property from Article 7 Moderate Density Residential (MD) to Article 5 Agriculture District (AG). Said property is described as:

Plat of Paulson Homestead, in the NW1/4 of the SW1/4 and in that portion of the NE1/4 of the SW1/4 Lying West of SD Highway 52, in Section 14, T93N, R57W of the 5th P.M., Yankton County, South Dakota AND THE NW1/4 of the SW1/4 of Section 14 and the NE1/4 of the SE1/4 of Section 15, all in T93N, R57W of the 5th P.M., Yankton County, South Dakota. E911 address is 43159 SD HWY 52 Yankton, South Dakota

No action was taken.

Emergency Management Manager Paul Scherschmidt appeared before the board for approval of mutual aid agreement and change on burn ban resolution.

Action 22343OEM: A motion was made by Klimisch and seconded by Fox to approve the 2023 Local Emergency Management Performance Grant (LEMPG). All present voted aye; motion carried, 5-0.

Action 22344OEM: A motion was made by Fox and seconded by Kettering to approve the following resolution. All present voted aye; motion carried, 5-0.

YANKTON COUNTY RESOLUTION TO PROVIDE FOR EMERGENCY REGULATION

2010 Legal and Public Notices

8-19-26 ADOPTION OF PROVISIONAL BUDGET FOR YANKTON COUNTY, SOUTH DAKOTA

NOTICE IS HEREBY GIVEN that the Board of County Commissioners of Yankton County, will meet in the Government Center at Yankton, South Dakota on Tuesday, September 6, 2021 at 6:00 p.m. for the purpose of considering the foregoing Provisional Budget for the year 2023 and the various items, schedules, amounts and appropriations set forth therein and as many days thereafter as is deemed necessary until the final adoption of the budget on or before the 1st day of October, 2022. At such time any interested person may appear either in person or by a representative and will be given an opportunity for a full and complete discussion of all purposes, objectives, items, schedules, appropriations, estimates, amounts and matters set forth and contained in the Provisional Budget.

Patty Holm
Yankton County Auditor

Published twice at the total approximate cost of \$23.05 and can be viewed free of charge at www.sd-publiintell.com.

NOTICE OF PUBLIC HEARING

Notice is hereby given that a public hearing will be held before the Yankton County Board of Adjustment, Yankton County, South Dakota, at 6:30 P.M. on the 6th day of September, 2022 at the Yankton County Government Center, Commissioners Chambers, 321 West Third St., Yankton, South Dakota. Applicant is requesting a Conditional Use Permit to add additional antennas to an existing tower per Article 25 section 2503. Said property is legally described as the Northwest Quarter (NW1/4) of Section Thirty-two (32), Township Ninety-four (94) North, Range Fifty-seven (57) West of the 5th P.M., Yankton County, South Dakota.

Published twice at the total approximate cost of \$16.98 and can be viewed free of charge at www.sd-publiintell.com.

Published August 26 & September 2, 2022.

YANKTON COUNTY COMMISSION MEETING August 16, 2022

The regular meeting of the Yankton County Commission was called to order by Chairman Joe Healy at 6:00 p.m. on Tuesday, August 16, 2022.

Roll call was taken with the following Commissioners present: Chad Loest, Don Kettering, Wanda Hovey-Fox, Dan Klimisch and Joe Healy.

Action 22342C: A motion was made by Loest and seconded by Fox to approve the meeting agenda with the following correction: Item 10 should be second reading. All present voted aye; motion carried, 5-0.

There were no public comments. Chairman Healy closed public comment.

Beacon: Ryan Smith from Schneider Geospatial presented a power point on Beacon software.

DOE: Yankton County Director of Equalization Jessica Atkinson appeared before the board to discuss Beacon and District III websites.

No action was taken.

Emergency Management Manager Paul Scherschmidt appeared before the board for approval of mutual aid agreement and change on burn ban resolution.

Action 22343OEM: A motion was made by Klimisch and seconded by Fox to approve the 2023 Local Emergency Management Performance Grant (LEMPG). All present voted aye; motion carried, 5-0.

Action 22344OEM: A motion was made by Fox and seconded by Kettering to approve the following resolution. All present voted aye; motion carried, 5-0.

YANKTON COUNTY RESOLUTION TO PROVIDE FOR EMERGENCY REGULATION

2010 Legal and Public Notices

of public health and safety of Yankton County, to adopt this resolution and allow the Yankton County Emergency Management Office to enforce or restrict open burning and monitor conditions of wildfire and dangerous fire hazards within Yankton County; and

WHEREAS, the Yankton County Emergency Management Office shall consult with local fire officials and law enforcement officials concerning the treat of wildfire from open burning under certain climatic conditions that become dangerous to life and property and upon recommendation of said consultation the Yankton County Emergency manager shall be authorized to prohibit or restrict open burning; and

WHEREAS, it is the intent of the Yankton County commissioners that the provisions of this resolution shall take effect immediately upon the passage by the board; and

NOW, THEREFORE, BE IT OBTAINED BY THE YANKTON COUNTY BOARD OF COMMISSIONERS AS FOLLOWS:

SECTION I. DEFINITIONS:

A. Open Fire: Means any outdoor fire, including a campfire, that is not contained within a fully enclosed fire box or structure from which the products of combustion are emitted directly to the open atmosphere without passing through a stack, duct or chimney with spark arresters. Open Fire does not include fires contained within liquid-fired or gas-fueled stoves, fireplaces within all buildings, charcoal grill fires at private residences, and permanent fire pits or fire grates located on supervised developed picnic grounds and Charcoal Grills; Liquid Fuel Grills, Outdoor Fireplaces, and Campgrounds as defined herein.

1. Charcoal Grill: Means a metal or stone device not resting on the ground with a metal grate designed to cook food using charcoal briquettes, char wood, hard wood, or similar fuel.

2. Liquid Fuel Grill: Means a metal or stone device designed to cook food using liquefied or gaseous combustible fuel.

3. Outdoor Fireplaces: Means a manufactured appliance constructed of non-combustible materials, with a maximum fuel area of three (3) feet, including a screen, (screen opening shall be no larger than 1/4" square), chimney or other device placed above the fuel area, fueled by cut or split wood, located not closer than 15 feet to any combustible surface and continually attended.

4. Campground: Means any permitted commercial campground operated by private individuals or corporations, State of South Dakota, or the United States National Park Service unless otherwise specifically banned by resolution of the Yankton County Board of Commissioners.

B. Burn Barrel: Means a metal container used to hold combustible or flammable waste materials so that they can be ignited for the purpose of disposal. Burn Barrels must have a metal grate; metal grate opening shall be no larger than 1/4" square covering at any time when being used. Burn Barrels must be located in a safety zone away from any or all combustible materials 15 feet radius of the Burn Barrel.

SECTION II: REGULATIONS:

NOW, THEREFORE, BE IT RESOLVED, that no person shall set any Open Fire or ignite a fire in a Burn Barrel in Yankton County, outside the boundaries of any Municipality, when the National Weather Service has declared the Grassland Fire Index to be in the Very High or Extreme Category, if the U.S. Drought Monitor should reach a D3 category or higher anywhere in the county, or when the Yankton County Emergency Management Office, through the Yankton County Emergency Manager after consultation with local fire and law enforcement officials initiate a "No Open Burning Ban" by providing notice in a legal newspaper that no person shall set any Open Fire or ignite a fire in a Burn Barrel in Yankton County, outside the boundaries of any municipality; and

BE IT FURTHER RESOLVED, that the No Open Burning Ban shall remain in effect until the Yankton County Emergency Management Office provides notice in a legal newspaper that the No Open Burning Ban has been removed; and

WHEREAS, the residents of Yankton County have great respect, admiration, and the utmost gratitude for all of the men and women who have selflessly served our country and this community in the Armed Forces; and

WHEREAS, the contributions and sacrifices of the men and women who served in the Armed Forces have been vital in maintaining the freedoms and way of life enjoyed by our citizens; and

WHEREAS, Yankton County seeks to honor these individuals who have paid the high price for freedom by placing themselves in harms way for the good of all; and

2010 Legal and Public Notices

Light for Veterans RESOLUTION 22-5

WHEREAS, the residents of Yankton County have great respect, admiration, and the utmost gratitude for all of the men and women who have selflessly served our country and this community in the Armed Forces; and

WHEREAS, the contributions and sacrifices of the men and women who served in the Armed Forces have been vital in maintaining the freedoms and way of life enjoyed by our citizens; and

WHEREAS, Yankton County seeks to honor these individuals who have paid the high price for freedom by placing themselves in harms way for the good of all; and

WHEREAS, Veterans continue to serve our community in the American Legion, Veterans of Foreign Wars, religious groups, civil service, and by functioning as County Veteran Service Officers to help fellow service members exceed more than \$52 billion in federal health, disability and compensation benefits each year; and

WHEREAS, Approximately 200,000 service members transition to civilian communities annually; and

WHEREAS, an estimated 20 percent increase of service members will transition to civilian life in the near future; and

WHEREAS, studies indicate that 44-72 percent of service members experience high levels of stress during transition from military to civilian life; and

WHEREAS, Active Military Service Members transitioning from military service are at a high risk for suicide during their first year after military service; and

WHEREAS, the National Association of Counties encourages all counties, parishes and boroughs to recognize Operation Green Light for Veterans; and

WHEREAS, Yankton County appreciates the sacrifices of our United States Military Personnel and believes specific recognition should be granted; therefore be it

RESOLVED, with designation as a Green Light for Veterans County, Yankton County hereby declares from November 1, 2022 through November 13th 2022 a time to salute and honor the service and sacrifice of our men and women in uniform transitioning from Active Service; therefore, be it further

RESOLVED, that in observance of Operation Green Light, Yankton County encourages its citizens in patriotic tradition to recognize the importance of honoring all those who made immeasurable sacrifices to preserve freedom by displaying a green light in a window of their place of business or residence.

Joe Healy/ Yankton County Chairman

ATTYST: Patty Hojem/ Yankton County Auditor

Action 22346AMB: A motion was made by Kettering and seconded by Loest to approve the request of temporary/part-time employees. All present voted aye; motion carried, 5-0.

Rezone: There was a second reading on the request from Tim Paulson to rezone a Moderate Density Residential (R2) to Agriculture District (AG).

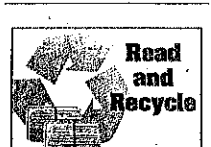
Tim Paulson spoke on the rezone. There were no public comments.

Action 22347C: A motion was made by Klimisch and seconded by Fox to approve the Rezone request. Roll call vote was taken with Klimisch, Fox, Kettering, Loest and Healy voting aye; motion carried, 5-0.

Action 22348Z: A motion was made by Klimisch and seconded by Fox to adopt the following resolution: Whereas it appears, Maynard Hamberger, owner of record, has caused a plat to be made of the following real property: Hambergers Addition, NE1/4, S22-T95N-R57W; hereinafter referred to as Lesterville Township, County of Yankton, S.D., and has submitted such plat to the Yankton County Planning Commission and the Yankton County Commission for approval. Now therefore be it resolved that such plat has been

1615 Houses For Rent

For Rent: 2-bedroom, 1-bath house in Tyndall SD. Single car garage, fenced backyard, laundry room. 605-790-6323.



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1645 Open Houses

OPEN HOUSE

Saturday, August 27th, 10-10:45 AM

106 Jones Ave., St. Helena, NE \$160,000

2 bedroom, 2 bath, (two) 2-stall detached garages on 1.03 acre

Chudy Buckman
605-760-6230
Office 605-260-1690
1101 Broadway, Yankton
www.yanktonhomedirector.com

America's Best Realty
Equal Housing Opportunity

Open Houses

Saturday, Aug. 27th • 10-11:30AM

1204 Spruce Street - \$389,900

Seeing is believing! You seriously have to SEE this 4 bed, 4 bath beauty to realize just how much living space it offers! The main floor has over 1900 sqft with 3 bedrooms, 2.5 baths, totally open kitchen, dining and living room plus a laundry option. The lower level has over 1000 finished sqft with a good sized family room, another bedroom, big 3/4 bath, bonus room plus storage galore! This home has been completely renovated...from moving the location of the kitchen to all new doors and millwork, flooring, lighting and paint. The fenced backyard has also been updated with a spacious patio area that leads to a custom fire pit. Come check out 1204 Spruce St. and SEE for yourself!

Yankton County, South Dakota

Paid by
Christina Wilburn
christina.wilburn@crowncastle.com

Payment number
Date paid
Payment method

Receipt

194812994
July 20, 2022 01:52 PM
Online

\$300.00 paid on July 20, 2022

Variance, Conditional Use and Rezoning Application

Application ID: CUP-2022-82

Description	Amount
Fee	\$300.00