NOTICE OF MEETING OF THE WOODBURY COUNTY BOARD OF SUPERVISORS
(MARCH 7, 2017) (WEEK 10 OF 2017)

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Rocky L. DeWitt	Marty J. Pottebaum	Keith W. Radig	Jeremy J. Taylor	Matthew A. Ung
253-0421	251-1799	560-6542	259-7910	490-7852
rdewitt@woodburycountyiowa.gov	mpottebaum@woodburycountyiowa.gov	kradig@woodburycountyiowa.gov	jtaylor@woodburycountyiowa.gov	matthewung@woodburycountyiowa.gov

You are hereby notified a meeting of the Woodbury County Board of Supervisors will be held March 7, 2017 at **4:30 p.m.** in the Basement of the Courthouse, 620 Douglas Street, Sioux City, Iowa for the purpose of taking official action on the agenda items shown hereinafter and for such other business that may properly come before the Board.

This is a formal meeting during which the Board may take official action on various items of business. If you wish to speak on an item, please follow the seven participation guidelines adopted by the Board for speakers.

1. Anyone may address the Board on any agenda item after initial discussion by the Board.
2. Speakers will approach the microphone one at a time and be recognized by the Chair.
3. Speakers will give their name, their address, and then their statement.
4. Everyone will have an opportunity to speak. Therefore, please limit your remarks to **three minutes on any one item**.
5. At the beginning of the discussion on any item, the Chair may request statements in favor of an action be heard first followed by statements in opposition to the action.
6. Any concerns or questions you may have which do not relate directly to a scheduled item on the agenda will also be heard under the first or final agenda item “Citizen Concerns.”
7. For the benefit of all in attendance, please turn off all cell phones and other devices while in the Board Chambers.

AGENDA

3:00 p.m. Courthouse Foundation Meeting
First Floor Board of Supervisors Meeting Room

4:00 p.m. 1. Closed Session {Iowa Code Section 21.5 (1) (c)}

4:30 p.m. 2. Call Meeting to Order – Pledge of Allegiance to the Flag – Moment of Silence

3. Citizen Concerns — Information

4. Approval of the agenda March 7, 2017 — Action

Consent Agenda

Items 5 through 9 constitute a Consent Agenda of routine action items to be considered by one motion. Items pass unanimously unless a separate roll call vote is requested by a Board Member.

5. Approval of the minutes of the February 28, 2017 meeting

6. Approval of claims

7. Human Resources – Ed Gilliland
   a. Approval of Memorandum of Personnel Transactions
   b. Authorize Chairman to sign Authorization to Hiring Process

8. County Auditor – Patrick Gill
   Consideration and approval for liquor license for White Horse Patrol Club

9. Planning & Zoning – John Pylelo
   Receive Zoning Commission and Staff Recommendation; Approval of Final Platting and Authorization of Chairman's Signature Re: R.J. Addition – A Minor Subdivision; GIS Parcel #894518100008

End of Consent Agenda

10. Board Administration/Public Bidder – Heather Satterwhite

4:35 p.m. (Set time) a. Public Hearing and Sale of Property Parcel #194595 (aka 320 Argonne Place) — Action

4:37 p.m. (Set time) b. Public Hearing and Sale of Property Parcel #016488 (aka 1221 Tri-View Avenue) — Action

11. County Attorney – PJ Jennings & County Sheriff – Dave Drew
    Consideration and approval to participate with the City of Sioux City in the submission of the Edward J. Bryne Memorial Justice Grant (JAG) and Residential Substance Abuse Treatment (RSAT) Program application to the Governor's Office of Drug Control Policy — Action

12. Communication Center – Glenn Sedivy

4:45 p.m. (Set time) a. Approval of a motion to a tower lease with Motorola Solutions, Inc. for an initial term of thirteen (13) years between Woodbury County, Starcomm and Motorola Solutions Inc. – Starcomm West Tower at 2100 Platt Road Homer, NE — Action

4:50 p.m. (Set time) b. Approval of a motion to a tower lease with Motorola Solutions, Inc. for an initial term of thirteen (13) years between Woodbury County, Starcomm and Motorola Solutions Inc. – Starcomm West Tower at 2028 Jasper Ave. Moville, IA — Action

4:55 p.m. (Set time) c. Approval of a motion to a tower lease with Motorola Solutions, Inc. for an initial term of thirteen (13) years between Woodbury County, Starcomm and Motorola Solutions Inc. – Starcomm West Tower at 2267 O'Brien Ave. Anthon, IA — Action

d. Approval of resolution fixing date of March 14, 2017 for a public hearing at 4:40 p.m. for an agreement for Motorola Solutions Inc. to lease tower space from Starcomm on the West Tower for their operation — Action

e. Approval of resolution fixing date of March 14, 2017 for a public hearing at 4:45 p.m. for an agreement for Motorola Solutions Inc. to lease tower space from Starcomm on the WIT tower for their operations — Action

13. Human Resources – Ed Gilliland/Board of Supervisors – Matthew Ung — Action
    Approval of Updated Job Descriptions for Board Office Positions

14. Human Resources – Ed Gilliland — Action
    Approval of the dates and financial impact of the 2017 Annual Fall Safety Day and Health/Wellness Fair

15. Board of Supervisors – Matthew Ung/Jeremy Taylor — Information
    The Active Management Role of County Supervisors

16. Secondary Roads – Mark Nahra
    a. Consider approval of completion certificate for the 2016 pavement marking project various county paved roads — Action
    b. Consider approval of completion certificate for the GH-2017 Gravel Stockpile project — Action
    c. Consider approval of completion certificate for project number L-B(W153)—73-97, Replacement of Structure W153 on Morgan Trail — Action
    d. Consider approval of contract of bridge inspection contract for 2017 — Action
    e. Consider approval of contract for project number L-M208—73-97, Replacement of Structure M208 on Pocahontas Avenue — Action
    f. Consider approval of resolution to set speed limits on Allison Avenue and 235th Street — Action
    g. Consider approval of resolution to remove stop signs on Allison Avenue — Action
    h. Consider approval of resolution to set speed limit on Easter Avenue/ County Route K49 — Action

17. Chairman's Report — Information
    a. Court Appointed Special Advocate Program Fundraiser (March 1)
    b. Sioux City metro #1 – Site Selection magazine
    c. SIMPCO Policy & Legislative Committee (March 2)
    d. SIMPCO MPO Policy Board Meeting (March 2)
    e. Rural Town Hall Meeting – Correctionville, March 27, 6:30-8 p.m.

18. Reports on Committee Meetings — Information

19. Citizen Concerns — Information

20. Board Concerns and Comments — Information

ADJOURNMENT

Subject to Additions/Deletions

CALENDAR OF EVENTS

MONDAY, MARCH 6	**6:00 p.m.**	Board of Adjustment meeting, Board of Supervisors' Chambers
TUESDAY, MARCH 7	**3:00 p.m.**	Courthouse Foundation Meeting, Board of Supervisors' Chambers
	4:45 p.m.	Veteran Affairs Meeting, Veteran Affairs Office, 1211 Tri-View Ave.
WEDNESDAY, MARCH 8	**8:05 a.m.**	Woodbury County Information Communication Commission, Board of Supervisors' Chambers
	6:30 p.m.	Woodbury County Solid Waste Agency (Sanitary Landfill) Executive Committee Meeting, Public Safety Center, Climbing Hill
	7**:30 p.m.**	E911 Service Board Meeting, Public Safety Center, Climbing Hill
THURSDAY, MARCH 9	**12:00 noon**	SIMPCO Board of Directors, 1122 Pierce St, Sioux City, Iowa

MARCH 9 & 10		**ISAC Legislative Conference**
TUESDAY, MARCH 14	**4:00 p.m.**	Conservation Board Meeting, Dorothy Pecaut Nature Center Stone Park
WEDNESDAY, MARCH 15	**10:00 a.m.**	Siouxland Center for Active Generations Board of Directors Meeting, 313 Cook Street
	12:00 noon	Siouxland Economic Development Corporation Meeting, 617 Pierce St., Ste. 202, Sioux City, Iowa
THURSDAY, MARCH 16	**11:00 a.m.**	Siouxland Regional Transit Systems (SRTS) Board Meeting, SIMPCO Office, 1122 Pierce St., Sioux City, Iowa
	4:30 p.m.	Community Action Agency of Siouxland Board Meeting, 2700 Leech Ave
FRIDAY, MARCH 17	**10:00 a.m.**	Hungry Canyons Alliance Meeting, Portsmouth, Iowa
MONDAY, MARCH 20	**8:00 a.m.**	Department Head Meeting
TUESDAY, MARCH 21	**2:30 p.m.**	Health & Wellness Committee, 8th Floor Courthouse
THURSDAY, MARCH 23	**9:30 a.m.**	SIMPCO SRTPA Policy Meeting, 1122 Pierce St., Sioux City, Iowa
	10:30 a.m.	Siouxland Regional Transit System, 1122 Pierce St., Sioux City, Iowa
	12:00 noon	SIMPCO Housing Trust Fund, 1122 Pierce St., Sioux City, Iowa
MONDAY, MARCH 27	**6:00 p.m.**	Zoning Commission Meeting, Board of Supervisors' Chambers
	6:30 p.m.	Correctionville Town Hall Meeting, Correctionville Community Center
TUESDAY, MARCH 28	**2:00 p.m.**	Decat Board Meeting, Western Hills AEA, Room F
	1:30 p.m.	Sioux Rivers Regional Governance Board Meeting, Plymouth County Courthouse Annex Building, 215 4th Ave. S.E., Le Mars, Iowa

The following Boards/Commission have vacancies: Commission To Assess Damages - Category A, Category B, Category C and Category D

Community Action Agency of Siouxland Board of Directors has one vacancy

Woodbury County is an Equal Opportunity Employer. In compliance with the Americans with Disabilities Act, the County will consider reasonable accommodations for qualified individuals with disabilities and encourages prospective employees and incumbents to discuss potential accommodations with the Employer.

Federal and state laws prohibit employment and/or public accommodation discrimination on the basis of age, color, creed, disability, gender identity, national origin, pregnancy, race, religion, sex, sexual orientation or veteran's status. If you believe you have been discriminated against, please contact the Iowa Civil Rights Commission at 800-457-4416 or Iowa Department of Transportation's civil rights coordinator. If you need accommodations because of a disability to access the Iowa Department of Transportation's services, contact the agency's affirmative action officer at 800-262-0003.

COURTHOUSE FOUNDATION MEETING

Tuesday, March 7, 2017 at 3:00 p.m.

First Floor Board of Supervisors Meeting Room

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AGENDA

Election of Directors

-Motion to elect ex officio members as Board of Directors

Election of Officers

-Motion to elect President of the Board of Directors
-Motion to elect Vice President of the Board of Directors
-Motion to combine the offices of Secretary and Treasurer and to appoint the County Auditor to the combined position

Reports

-Motion to approve the approve the minutes of the March 1, 2016 meeting
-Motion to receive the March 1, 2017 Financial Report

Old Business

New Business

Adjourn

Courthouse Foundation Financial Report
As of March 1, 2017

Beginning Cash Balance March 3, 2016		$ 8,603.06
Revenues:		
Donations:		
Money from Dunk Tank	165.00	
Jeremy Taylor	751.91	
Total Revenue		916.91
Total Cash Balance & Revenues		9,519.97
Disbursements:		
None		0.00
Ending Cash Balance as of March 1, 2017		$ 9,519.97

Patrick F. Gill, County Auditor/Recorder

WOODBURY COUNTY COURTHOUSE FOUNDATION MEETING

ANNUAL MEETING MINUTES

Tuesday, March 1, 2016

Board of Supervisors Meeting Room

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Present were Smith, Clausen, Monson, Ung and Taylor.

Election of Directors
Motion by Taylor second by Monson to elect ex officio members as Board of Directors. Motion carried.

Election of Officers
Motion by Monson second by Ung to elect Chairman Taylor of the Board of Supervisors as President of the Board of the Board of Directors. Motion carried.

Motion by Monson second by Taylor to elect Supervisor Ung as Vice President of the Board of Directors. Motion Carried.

Motion by Clausen second by Taylor to combine the offices of Secretary and Treasurer and to appoint the County Auditor to the combined position. Motion carried.

Reports
Motion by Monson second by Ung to approve the minutes of the March 3, 2015 meeting. Motion carried; Taylor abstained.

Motion by Smith second by Taylor to receive the Financial Report as of March 1, 2016. Motion carried.

Old Business
There was a discussion of the windows stored in the sub-basement. An effort to provide tours or self-guided tours was also discussed.

New Business
There was a discussion on the need to update the bylaws. It was reported that the ex officio member, the Woodbury County Social Service Coordinator, membership had terminated because the position no longer exists. It was also discussed the notification method called for in the bylaws had not been used in the last twenty years.

Motion by Ung second by Monson to direct the secretary/treasurer to draft proposed changes to the bylaws and submit them to the membership at special meeting of the Foundation scheduled for 9/6/2016. Motion carried.

There also was discussion of the need to plan a Courthouse Centennial Celebration.

Motion by Clausen second by Monson to appoint Supervisor Ung and Supervisor Smith to a committee to be formed to plan and develop a budget for a Courthouse Centennial Celebration and to prepare a report of activities to be presented to the membership at special meeting of the Foundation scheduled for 9/6/2016.

Adjourn
The meeting was adjourned.

#5

FEBRUARY 28, 2017, NINETH MEETING OF THE WOODBURY COUNTY BOARD OF SUPERVISORS

The Board of Supervisors met on Tuesday, February 28, 2017 at 4:00 p.m. Board members present were Ung, De Witt, Radig and Taylor; Pottebaum was absent. Staff members present were Karen James, Board Administrative Coordinator, Ed Gilliland, Human Resources Director, Abigail Sills, Assistant County Attorney and Patrick Gill, Auditor/Clerk to the Board.

1. Motion by Ung second by Radig to go into closed session per Iowa Code Section 21.5(1)(c). Carried 4-0 on a roll-call vote.

   Motion by Taylor second by Ung to go out of closed session per Iowa Code Section 21.5(1)(c). Carried 4-0 on a roll-call vote.

   Motion by Ung second by Radig to approve the recommendation from counsel in the previous executive session. Carried 4-0.

2. The meeting was called to order with the Pledge of Allegiance to the Flag and a Moment of Silence.

3. There were no citizen concerns.

4. Motion by Taylor second by Radig to approve the Agenda for February 28, 2017. Carried 4-0. Copy filed.

   Motion by De Witt second by Ung to approve the following items by consent:

5. To approve minutes of the February 21, 2017 meeting. Copy filed.

6. To approve the claims totaling $367,339.01. Copy filed.

7. To approve and authorize the Chairperson to sign a Resolution approving petition for suspension of taxes for Kimberly McHenry, 3700 28th St., Lot #200, VIN #M604109. Carried.

WOODBURY COUNTY, IOWA
RESOLUTION #12,494
RESOLUTION APPROVING PETITION FOR SUSPENSION OF TAXES

WHEREAS, Kimberly A. McHenry, is the titleholder of a mobile home located at 3700 – 28th St., Lot #200, Sioux City, Woodbury County, Iowa, and legally described as follows:

VIN #M604109

1977 HYPK Title #97U506737

WHEREAS, Kimberly A. McHenry, is the titleholder of the aforementioned mobile home have petitioned the Board of Supervisors for a suspension of taxes pursuant to the 2009 Iowa Code section 427.9, and

WHEREAS, the Board of Supervisors recognizes from documents provided that the petitioner is unable to provide to the public revenue; and

NOW, THEREFORE, BE IT RESOLVED, that the Woodbury County Board of Supervisors hereby grants the request for a suspension of taxes, and hereby directs the Woodbury County Treasurer to so record the approval of this tax suspension for this property.

SO RESOLVED this 28th day of February, 2017.
WOODBURY COUNTY BOARD OF SUPERVISORS
Copy filed.

8. To approve and authorize the Chairperson to sign a Resolution setting the public hearing date and sale date of parcel #536161, 3099 Transit Ave., Sioux City.

RESOLUTION #12,495
NOTICE OF PROPERTY SALE

WHEREAS Woodbury County, Iowa was the owner under a tax deed of a certain parcel of real estate described as:

West 66 feet North 12.45 feet of Lot 1 and Triangle Tract in Northerly and Westerly part of Lot 2 in Block 60 West Morningside Addition, City of Sioux City, Woodbury County, Iowa
(3099 Transit Avenue)

NOW THEREFORE,

BE IT RESOLVED by the Board of Supervisors of Woodbury County, Iowa as follows:

1. That a public hearing on the aforesaid proposal shall be held on the **14th Day of March, 2017 at 4:35 o'clock p.m.** in the basement of the Woodbury County Courthouse.

2. That said Board proposes to sell the said parcel of real estate at a public auction to be held on the **14th Day of March, 2017,** immediately following the closing of the public hearing.

3. That said Board proposes to sell the said real estate to the highest bidder at or above a **total minimum bid of $606.00** plus recording fees.

Dated this 28th Day of February, 2017.
WOODBURY COUNTY BOARD OF SUPERVISORS
Copy filed.

9. To approve the appointment of Dustin Johnson, Motor Vehicle Clerk II, County Treasurer Dept., effective 03-01-17, $15.64/hour. Job Vacancy Posted 1-18-17. Entry Level Salary: $15.64/hour.; the reclassification of Jason Weitzel, Custodian, Building Services Dept., effective 03-12-17, $16.44/hour, 6%=$.96/hour. Per AFSCME Courthouse Contract agreement, from Grade 1/Step 3 to Grade 1/Step 4.; and the reclassification of Krystle Shook, Motor Vehicle Clerk II, County Treasurer Dept., effective 03-17-17, $17.18/hour, 5%=$.82/hour. Per AFSCME Courthouse Contract agreement, from Grade 3/Step 2 to Grade 3/Step 3. Copy filed.

10a. To receive the appointment of Fred Bouc, 29 Elm St., Pierson, IA., as a City of Pierson Council Member, to fill a vacancy, until the next regular election. The appointment was made on February 20, 2017, to fill the position previously held by Krystal Kauffman-Smith. Copy filed.

10b. To receive the Auditor's Quarterly Report for October 1, 2016 through December 31, 2016. Copy filed.

Carried 4-0.

11. A public hearing was held at 4:35 p.m. for the sale of parcel #128580, 1203 W. 3rd St. The Chairperson called on anyone wishing to be heard.

Motion by Taylor second by Ung to close the public hearing. Carried 4-0.

Motion by Taylor second by Ung to approve and authorize the Chairperson to sign a Resolution for the sale of this parcel to Donna Johnson, 313 Myrtle St., Sioux City, for real estate parcel #128580,1203 W. 3rd St., for $156.00 plus recording fees. Carried 4-0.

RESOLUTION OF THE BOARD
OF SUPERVISORS OF WOODBURY COUNTY, IOWA
RESOLUTION #12,496

BE IT RESOLVED by the Board of Supervisors of Woodbury County, Iowa, that the offer at public auction of:

By Donna Johnson in the sum of One Hundred Fifty-Six Dollars & 00/100 ($156.00)----------dollars.

For the following described real estate, To Wit:

Parcel #128580

South 74 feet Lot 13 Block 3 Sioux City Davis Addition, City of Sioux City, Woodbury County, Iowa (1203 W. 3rd Street)

Now and included in and forming a part of the City of Sioux City, Iowa, the same is hereby accepted: said Amount being a sum LESS than the amount of the general taxes, interests, costs and penalties against the said Real Estate.

BE IT RESOLVED that payment is due by close of business on the day of passage of this resolution or this sale is null and void and this resolution shall be rescinded.

BE IT RESOLVED that per Code of Iowa Section 569.8(3 & 4), a parcel the County holds by tax deed shall not be assessed or taxed until transferred and upon transfer of a parcel so acquired gives the purchaser free title as to previously levied or set taxes. Therefore, the County Treasurer is requested to abate any taxes previously levied or set on this parcel(s).

BE IT FURTHER RESOLVED that the Chairman of this Board be and he is hereby authorized to execute a Quit Claim Deed for the said premises to the said purchaser.

SO DATED this 28th Day of February, 2017.
WOODBURY COUNTY BOARD OF SUPERVISORS
Copy filed.

12a. Motion by Taylor second by Radig to approve and authorize the Chairperson to sign a Resolution for Notice of Property Lease fixing date for public hearing for an agreement for Motorola Solutions, Inc. to lease space within the Homer Tower site for their operations. Carried 4-0.

RESOLUTION #12,497
NOTICE OF PROPERTY LEASE

WHEREAS Woodbury County, Iowa is the deed holder to certain radio communications tower sites on the Siouxland Tri-State Radio Communications System (hereinafter referred to as "STARCOMM"); and

WHEREAS Motorola Solutions Inc. (hereinafter referred to as "Motorola") desires to enter a lease with Woodbury County, Iowa and Starcomm to use the Starcomm Homer Tower Site located at 2100 Platte Road Homer, Nebraska for the purposes of a public safety radio communications system:

NOW THEREFORE,

BE IT RESOLVED by the Board of Supervisors of Woodbury County, Iowa as follows:

1. That a public hearing on the aforesaid proposal shall be held on the **March 7th, 2017 at 4:45 pm** in the basement of the Woodbury County Courthouse.

2. That said Board proposes to lease space on the Starcomm system to Motorola for an initial term of thirteen (13) years with the possibility of four

(4) additional five (5) year renewal terms.

3. That said Board proposes to lease the real estate as a partnership with Motorola to connect the Starcomm radio system to the State of Iowa's Statewide Radio system with equipment installed in the Starcomm Homer Tower located at 2100 Platte Road Homer, Nebraska.

4. That this resolution, preceded by the caption "Notice of Property Lease" and except for this subparagraph 4 be published as notice of the aforesaid proposal, hearing and sale.

Dated this 28th Day of February, 2017
WOODBURY COUNTY BOARD OF SUPERVISORS
Copy filed.

12b. Motion by Radig second by Taylor to approve and authorize the Chairperson to sign a Resolution for Notice of Property Lease fixing date for public hearing for an agreement for Motorola Solutions, Inc. to lease space within the Anthon Tower site for their operations. Carried 4-0.

RESOLUTION #12,498
NOTICE OF PROPERTY LEASE

WHEREAS Woodbury County, Iowa is the deed holder to certain radio communications tower sites on the Siouxland Tri-State Radio Communications System (hereinafter referred to as "STARCOMM"); and

WHEREAS Motorola Solutions Inc. (hereinafter referred to as "Motorola") desires to enter a lease with Woodbury County, Iowa and Starcomm to use the Starcomm Anthon Tower Site located at 2028 Jasper Ave. Moville, Iowa for the purposes of a public safety radio communications system:

NOW THEREFORE,

BE IT RESOLVED by the Board of Supervisors of Woodbury County, Iowa as follows:

1. That a public hearing on the aforesaid proposal shall be held on the **March 7th, 2017 at 4:50 pm** in the basement of the Woodbury County Courthouse.

2. That said Board proposes to lease space on the Starcomm system to Motorola for an initial term of thirteen (13) years with the possibility of four (4) additional five (5) year renewal terms.

3. That said Board proposes to lease the real estate as a partnership with Motorola to connect the Starcomm radio system to the State of Iowa's Statewide Radio system with equipment installed in the Starcomm Anthon Tower site located at 2028 Jasper Ave. Moville, Iowa

4. That this resolution, preceded by the caption "Notice of Property Lease" and except for this subparagraph 4 be published as notice of the aforesaid proposal, hearing and sale.

Dated this 28th Day of February, 2017.
WOODBURY COUNTY BOARD OF SUPERVISORS
Copy filed.

12c. Motion by Taylor second by Ung to approve and authorize the Chairperson to sign a Resolution for Notice of Property Lease fixing date for public hearing for an agreement for Motorola Solutions, Inc. to lease space within the East Tower site for their operations. Carried 4-0.

RESOLUTION #12,499
NOTICE OF PROPERTY LEASE

WHEREAS Woodbury County, Iowa is the deed holder to certain radio communications tower sites on the Siouxland Tri-State Radio Communications System (hereinafter referred to as "STARCOMM"); and

WHEREAS Motorola Solutions Inc. (hereinafter referred to as "Motorola") desires to enter a lease with Woodbury County, Iowa and Starcomm to use the Starcomm East Tower Site located at 2267 O'Brien Ave, Anthon, Iowa for the purposes of a public safety radio communications system:

NOW THEREFORE,

BE IT RESOLVED by the Board of Supervisors of Woodbury County, Iowa as follows:

1. That a public hearing on the aforesaid proposal shall be held on the **March 7th, 2017 at 4:55 pm** in the basement of the Woodbury County Courthouse.

2. That said Board proposes to lease space on the Starcomm system to Motorola for an initial term of thirteen (13) years with the possibility of four (4) additional five (5) year renewal terms.

3. That said Board proposes to lease the real estate as a partnership with Motorola to connect the Starcomm radio system to the State of Iowa's Statewide Radio system with equipment installed in the Starcomm East Tower site located at 2267 O'Brien Ave, Anthon Iowa

4. That this resolution, preceded by the caption "Notice of Property Lease" and except for this subparagraph 4 be published as notice of the aforesaid proposal, hearing and sale.

Dated this 28th Day of February,2017.
WOODBURY COUNTY BOARD OF SUPERVISORS
Copy filed.

13. Motion by Radig second by Ung to approve and authorize the Chairperson to sign a Resolution supporting the home base Iowa initiative. Carried 4-0.

RESOLUTION #12,500
A RESOLUTION SUPPORTING THE HOME BASE IOWA INITIATIVE

WHEREAS, the Office of the Governor of the State of Iowa has launched a public-private partnership called Home Base Iowa initiative, which is an effort to match military Veterans with jobs available across Iowa; and

WHEREAS, the Home Base Iowa initiative consists of two programs, Home Base Iowa Businesses and Home Base Iowa Communities; and

WHEREAS, Governor Branstad is requesting Iowa businesses and communities to promote and support the Home Base Iowa initiative and one of the requirements for Woodbury County to be a Home Base Community is that the Board of Supervisors adopt a resolution of support; and

WHEREAS, the Board of Supervisors of Woodbury County finds that it is in the best interests of Woodbury County and Veterans everywhere to support the Home Base Iowa initiative and adopt this resolution.

NOW, THEREFORE, it is resolved by the Board of Supervisors of Woodbury County, Iowa as follows:

Section 1. The Board of Supervisors of Woodbury County herby proclaims its support for the Home Base Iowa initiative and encourages its residents to take whatever actions are necessary for Woodbury County to become and continue to be a Home Base Iowa Community.

Section 2. The Board of Supervisors also encourages Woodbury County businesses to take whatever actions are necessary to become and continue to be a Home Base Iowa Business.

Section 3. The Board of Supervisors, Economic Development Director & Commission of Veteran Affairs Director are authorized to take such further action as may be necessary to carry out the intent and purpose of this resolution.

Section 4. All resolutions, orders, or parts thereof, in conflict herewith are, to the extent of such conflict, herby repealed, and this resolution shall be in full force and effect immediately upon its adoption and approval.

Passed and approved on February 28, 2017.
WOODBURY COUNTY BOARD OF SUPERVISORS
Copy filed.

14. Motion by Taylor second by Ung to receive the signed CWA contract for the period of FY 2017-2021. Carried 4-0. Copy filed.

15a. A public hearing was held at 5:00 p.m. for the Woodbury County LEC Optimization Plan. The Chairperson called on anyone wishing to be heard.

Motion by Radig second by Taylor to close the public hearing. Carried 4-0.

15b. Motion by Radig second by Taylor to ratify the LEC Optimization Plan. Carried 3-1; De Witt opposed. Copy filed.

15c. Motion by Radig second by Taylor to approve the Optimization Plan B "Intake Area" project funding for $1.2 million. Carried 3-1; De Witt opposed. Copy filed.

16. The Chairperson reported on the day-to-day activities.

17. The Board members reported on their committee meetings.

18. There were no citizen concerns.

19. Board members presented their concerns and comments.

The Board adjourned the regular meeting until March 7, 2017.

Meeting sign in sheet. Copy filed.

#7a

HUMAN RESOURCES DEPARTMENT

MEMORANDUM OF PERSONNEL TRANSACTIONS

DATE: March 7, 2017

*** PERSONNEL ACTION CODE:**

A- Appointment
T - Transfer
P - Promotion
D - Demotion
R-Reclassification
E- End of Probation
S - Separation
O – Other

TO: WOODBURY COUNTY BOARD OF SUPERVISORS

NAME	DEPARTMENT	EFFECTIVE DATE	JOB TITLE	SALARY REQUESTED	% INCREASE	*	REMARKS
Ward, Sabrina	County Sheriff	3-14-17	Civilian Jailer	$18.00/hour		A	Job Vacancy Posted 10-19-16. Entry Level Salary: $18.00/hour.
Quade, Amanda	County Sheriff	3-16-17	Civilian Jailer	$18.00/hour		A	Job Vacancy Posted 1-12-17. Entry Level Salary: $18.00/hour.
Vandromme, Kayla	Juvenile Detention	3-19-17	P/T Youth Worker	$22.60/hour	17%=$3.28/ hour	R	Per AFSCME Juvenile Detention Contract agreement, from Grade 1/Step 3 to Grade 1/Step 4.

APPROVED BY BOARD DATE: _____

ED GILLILAND, HR DIRECTOR: Ed S Gilliland

WOODBURY COUNTY

HUMAN RESOURCES DEPARTMENT

TO: Board of Supervisors and the Taxpayers of Woodbury County

FROM: Ed Gilliland, Human Resources Director

SUBJECT: Memorandum of Personnel Transactions

DATE: March 7, 2017

For the March 7, 2017 meeting of the Board of Supervisors and the Taxpayers of Woodbury County the Memorandum of Personnel Transactions will include:

1) County Sheriff (2) Civilian Jailers, Appointments.
2) Juvenile Detention P/T Youth Worker, from Grade 1/Step 3 to Grade 1/Step 4.

Thank you

Ed Gilliland

HUMAN RESOURCES DEPARTMENT

WOODBURY COUNTY, IOWA

#7b

DATE: March 7, 2017

AUTHORIZATION TO INITIATE HIRING PROCESS

DEPARTMENT	POSITION	ENTRY LEVEL	APPROVED	DISAPPROVED
County Sheriff	Clerk II	AFSCME Courthouse: $15.64/hour		
	*Please see attached memo.			

Chairman, Board of Supervisors

(AUTHFORM.doc/FORMS)

Woodbury County Sheriff's Office

LAW ENFORCEMENT CENTER
P. O. BOX 3715 SIOUX CITY, IOWA 51102

DAVID A. DREW, SHERIFF

PHONE: 712.279.6010
E-MAIL: ddrew@woodburycountyiowa.gov
FAX: 712.279.6522

02 March 2017

To the Woodbury County Board of Supervisors & Human Resources Department,

The Woodbury County Sheriff's Office respectfully requests discussion and action on the authorization to hire for a Clerk II position in the jail, being vacated by Clerk Toni Haefs. We request this be placed on the agenda for the Tuesday, March 7, 2017 Woodbury County Board of Supervisors meeting. Thank you.

Sincerely,

Dave Drew, Sheriff

Cc: file

WOODBURY COUNTY BOARD OF SUPERVISORS AGENDA ITEM(S) REQUEST FORM

#8

Date: 02/27/2017 Weekly Agenda Date: 03/07/2017

ELECTED OFFICIAL / DEPARTMENT HEAD / CITIZEN: County Auditor - Pat Gill

WORDING FOR AGENDA ITEM:

Consideration and approval for liquor license for White Horse Patrol Club

ACTION REQUIRED:

Approve Ordinance ☐	Approve Resolution ☐	Approve Motion ☑
Public Hearing ☐	Other: Informational ☐	Attachments ☑

EXECUTIVE SUMMARY:

n/a

BACKGROUND:

n/a

FINANCIAL IMPACT:

Unknown at this time

IF THERE IS A CONTRACT INVOLVED IN THE AGENDA ITEM, HAS THE CONTRACT BEEN SUBMITTED AT LEAST ONE WEEK PRIOR AND ANSWERED WITH A REVIEW BY THE COUNTY ATTORNEY'S OFFICE?

Yes ☐ **No** ☑

RECOMMENDATION:

Approve Motion

ACTION REQUIRED / PROPOSED MOTION:

Motion to approve an application for a 12-month, Class A Liquor License with Sunday sales for the White Horse Patrol, effective 04/05/2017 through 04/04/2018.

Approved by Board of Supervisors April 5, 2016.

Office Of The
AUDITOR/RECORDER
Of Woodbury County
PATRICK F. GILL
Auditor/Recorder

Court House – Rooms 103
620 Douglas
Sioux City, Iowa 51101

Phone (712) 279-6702
Fax (712) 279-6629

To: Board of Supervisors

From: Patrick F. Gill, Auditor & Recorder PFG

Date: February 27,2017

Subject: Class A Liquor License with Sunday sales for the White Horse Patrol

Please approve and receive for signature, an applicaton for a 12-month, Class A Liquor License with Sunday sales for the White Horse Patrol, 1689 Old Highway 141, Sergeant Bluff, IA 51007. The permit would be effective 04/05/2017 through 04/04/2018.

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Applicant License LA0001073, White Horse Patrol Club, Sergeant Bluff

After completion click on the NEXT link to continue to the next screen, or the BACK link to return to the previous screen.
The navigation links on the top may also be used to move around the application.

LENGTH OF LICENSE REQUESTED:
(Choose one of the following):

- (●) 12 month
- ( ) 8 month
- ( ) 6 month
- ( ) 14 day
- ( ) 5 day

License Status: Submitted to Local Authority

Original issue date of license:	03/28/1989	MM/DD/YYYY
Issue date of current license:		MM/DD/YYYY
License effective date:	04/05/2017	MM/DD/YYYY
License expiration date:	04/04/2018	MM/DD/YYYY
Number of days notice:	70	
70 day notice:	0	
Cancel date:		MM/DD/YYYY

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Privileges LA0001073, White Horse Patrol Club, Sergeant Bluff

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Select one or more of the privileges you wish to have for your Class A Liquor License (LA) (Private Club). If no privileges are applicable please leave all boxes unchecked and hit the next button.

PRIVILEGES:

- [ ] **Living Quarters**
- [ ] **Outdoor Service**
- [x] **Sunday Sales**

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Applicant LA0001073, White Horse Patrol Club, Sergeant Bluff

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Corporation Name/Sole Proprietor Name/Partnership Name(s): White Horse Patrol Club (Sole Proprietorship, Partnership, Corporation, etc.)
Name of Business (D/B/A): White Horse Patrol Club
Address of Premise: 1689 Old Highway 141
Address Line 2:
City: Sergeant Bluff
County: Woodbury
Zip: 51007
Business Phone: (712) 946-6918 Cell / Home Phone:

☐ Same Address
Mailing Address: 109 Burdick St
Mailing Address Line 2:
City: Salix State: Iowa
Zip: 51052

Contact Name: Scott Van Eldik
Phone: (712) 251-9523 Email Address: scott.vaneldik@gmail.com

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Status of Business LA0001073, White Horse Patrol Club, Sergeant Bluff

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Indicate how the business will be operated (Choose one of the following):

○ Sole Proprietorship	○ Publicly Traded Corporation
○ General Partnership	○ Limited Liability Company
○ Limited Partnership	○ Municipality
◉ Privately-Held Corporation	○ Non-Profit Association

Corporate ID Number: 83731 **Federal Employer ID#:**

Federal Employer ID Applied For: ☑

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Ownership LA0001073, White Horse Patrol Club, Sergeant Bluff

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Corporate applicant's, list all shareholders having 10% or more interest in the corporation and all officers and directors of the corporation regardless of ownership interest. Sole Proprietors shall also include their spouse even if the spouse owns 0% interest. Non-profit corporations or associations need to list officers. Partnerships and Committees not registered with the Secretary of State office will need a trade name filing from their county recorder's office.

If you want to change ownership information at renewal time please finish the renewal with the current ownership listed. When you are finished please go to the Action List and submit an Ownership Update Application along with the license renewal.

Owners:

Name	Address	Percentage	
Scott Van Eldik	109 Burdick St., Salix, IA, 51052	0.00 %	View
Wayne Peterson	3416 Weldon Ave, Sioux City, IA, 51106	0.00 %	View

1

First Name: Last Name:
Address:
Address Line 2:
City: State: Please Select
Zip:
Position: SS#: U.S. Citizen: Please Select
Date of Birth: MM/DD/YYYY % of Ownership:

Add

Please make sure you press "Add" after each owner's information is listed above before pushing the next button.

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Ownership Interests LA0001073, White Horse Patrol Club, Sergeant Bluff

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The navigation links on the top may also be used to move around the application.

The following questions apply to the applicant and all persons and entities listed in the "Ownership - Names" section. The term "interest" means engaged in the ownership, conduct, or operation. Please direct any questions to info@iowaabd.com.

Question 1 of 6: **Do you or any of your employees, agents, jobbers, representatives, directors, or officers have a direct or indirect interest in any liquor, wine or beer manufacturer, bottler, importer, wholesaler or broker in Iowa, the United States or outside the United States?**

- ○ **YES - PROVIDE THE FOLLOWING**
- ◉ **NO**

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Ownership Interests LA0001073, White Horse Patrol Club, Sergeant Bluff

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The following questions apply to the applicant and all persons and entities listed in the "Ownership - Names" section. The term "interest" means engaged in the ownership, conduct, or operation. Please direct any questions to info@iowaabd.com.

Question 2 of 6: Does any liquor, wine or beer manufacturer, bottler, importer, wholesaler or broker in Iowa, the United States or outside the United States have a direct or indirect interest in your business?

- ○ YES - PROVIDE THE FOLLOWING
- ◉ NO

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Ownership Interests LA0001073, White Horse Patrol Club, Sergeant Bluff

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The following questions apply to the applicant and all persons and entities listed in the "Ownership - Names" section. The term "interest" means engaged in the ownership, conduct, or operation. Please direct any questions to info@iowaabd.com.

Question 3 of 6: Has any liquor, wine or beer manufacturer, bottler, importer, wholesaler or broker in Iowa, the United States or outside the United States paid all or part of your license fee?

- ○ YES - PROVIDE THE FOLLOWING
- ◉ NO

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Ownership Interests LA0001073, White Horse Patrol Club, Sergeant Bluff

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The following questions apply to the applicant and all persons and entities listed in the "Ownership - Names" section. The term "interest" means engaged in the ownership, conduct, or operation. Please direct any questions to info@iowaabd.com.

Question 4 of 6: Has any liquor, wine or beer manufacturer, bottler, importer, wholesaler or broker in Iowa, the United States or outside the United States provided any loan, credit, money, gift or equivalent to you?

- ○ YES - PROVIDE THE FOLLOWING
- ◉ NO

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Ownership Interests LA0001073, White Horse Patrol Club, Sergeant Bluff

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The following questions apply to the applicant and all persons and entities listed in the "Ownership - Names" section. The term "interest" means engaged in the ownership, conduct, or operation. Please direct any questions to info@iowaabd.com.

Question 5 of 6: Does any liquor, wine or beer manufacturer, bottler, importer, wholesaler or broker in Iowa, the United States or outside the United States own or have an interest in your furnishings, fixtures, or equipment?

- ○ YES - PROVIDE THE FOLLOWING
- ◉ NO

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Ownership Interests LA0001073, White Horse Patrol Club, Sergeant Bluff

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The following questions apply to the applicant and all persons and entities listed in the "Ownership - Names" section. The term "interest" means engaged in the ownership, conduct, or operation. Please direct any questions to info@iowaabd.com.

Question 6 of 6: Are you or any of your employees, agents, jobbers, representatives, directors or officers also employed by any liquor, wine or beer manufacturer, bottler, importer, wholesaler or broker in Iowa, the United States or outside the United States?

- ○ YES - PROVIDE THE FOLLOWING
- ◉ NO

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Criminal History LA0001073, White Horse Patrol Club, Sergeant Bluff

After completion click on the NEXT link to continue to the next screen, or the BACK link to return to the previous screen.
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No	**Since this license was last issued, has anyone listed in the ownership screen been convicted of a felony offense in Iowa or any other state of the United States? If yes, list on the next (Violations) screen.**
No	**Since the license was last issued, have any of the owners listed in the ownership screen been charged, arrested, indicted, convicted or received a deferred judgment for any violation of any state, county, city, federal or foreign law? All information shall be reported regardless of the disposition, even if dismissed or expunged. Include pending charges. DO NOT include traffic violations, except those that are alcohol related. If yes, list violations on the next (Violations) screen.**
None	**If no arrests, indictments, summons or convictions are applicable since the license was last issued, select 'NONE'.**

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Premises Information LA0001073, White Horse Patrol Club, Sergeant Bluff

After completion click on the NEXT link to continue to the next screen, or the BACK link to return to the previous screen.
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Has the premises configuration changed since last year? No

Control of premises:
Own (●)
Lease ( )
Other ( ) **explain:**

Premises type: Private Club
Local Authority: County

License City: Sergeant Bluff — **City Population: 4227**
License County: Woodbury — **County Population: 102172**

Dram Shop: Scottsdale Insurance Company

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General Premises Information LA0001073, White Horse Patrol Club, Sergeant Bluff

After completion click on the NEXT link to continue to the next screen, or the BACK link to return to the previous screen.
The navigation links on the top may also be used to move around the application.

# of Bathrooms: 2

# of Floors: 1

Equipped with tables and seats to accommodate a minimum of 25? Yes

No — Are other liquor, wine or beer businesses accessible from the interior of your premises?

Please Select — Veterans Organizations: Is your lodge or fraternal organization chartered by the Congress of the United States and open only 1 day a week? If no, please answer remaining questions.

Yes — Class A Liquor License "Club" Applicants Only: Is your club a non-profit corporation or association of individuals who own, lease or occupy a permanent building whose members pay regular dues and is not operated for a profit other than such profits as would accrue to the entire membership?

249 — If yes, how many dues paying members do you have?

Yes — Does your premises conform to all local and state health, fire and building laws and regulation?

No — Is the capacity of your establishment over 200?

No — Do you charge a cover charge?

If yes, how often?

Infusing click here for more information

☐ I will be mixing and storing mixed drinks, cocktails, or infusions prior to a customer placing an order for the beverage.
I will mix, store, and dispense mixed drinks, cocktails or infusions which are not for immediate consumption in compliance with the requirements and restrictions provided in Iowa Code § 123.49(2)"d"(2) and 185 Iowa Administrative Code § 4.5.
I understand that a failure to comply with applicable laws and rules will result in a fine, license suspension, and/or license revocation.

◉ Agree ○ Disagree

☑ I will NOT be mixing and storing mixed drinks, cocktails, or infusions prior to a customer placing an order for the beverage.

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Applicant Signature LA0001073, White Horse Patrol Club, Sergeant Bluff

Complete the information below and click Finish to complete the application
Note that the license fees will only be withdrawn from accounts after the ABD approves the license.

This application must be completed by a person listed in the Ownership Section.

I hereby declare that all information contained in the Application is true and correct. I understand that misrepresentation of material facts in the Application is a crime and grounds for denial of the license or permit under Iowa law. I further understand that, as a condition of receiving a license, the licensed premises is subject to inspection during business hours by appropriate local, state and federal officials.

NOTE: The Applicant's Name must match one of the owner's names from the Ownership screen.

Owner's Signature: Scott Van Eldik **Date:** 02/15/2017
MM/DD/YYYY

Tentative effective date: 04/05/2017 MM/DD/YYYY

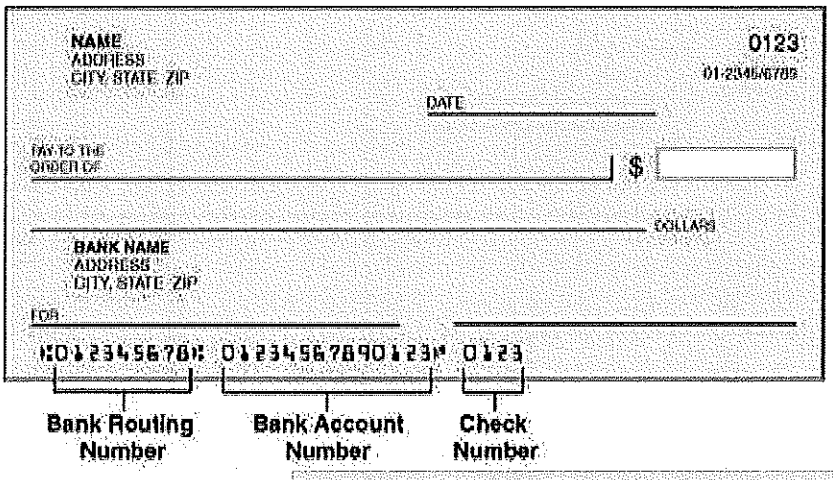
Licensees are required to submit a bi-annual report of shipment to Iowa consumers due January 10th and July 10th for the previous six months of shipment. This report can be found on the "Action List" under "Complete a Tax Report".

Amount to be transferred from your account: $ 624.00

Please notify your Financial Institution to allow ACH debits by our agency's ACH ID number, 142-6004553.

Funds will be pulled from your account 2 days after ABD approves the license.

You are ready to submit the application for your license to sell alcoholic beverages in the State of Iowa. By providing the bank information requested and clicking on "finish" you are indicating that you are an owner or authorized user of the bank account listed and that you hereby authorize ABD to debit the account in the amount indicated above.



Applicant's Bank Name: XXXXXXXXXXXXXXXXX

Applicant's Bank Routing Number:	XXXXXXXXXXXXXXXXX
Repeat Bank Routing Number:	

The routing number will ALWAYS be 9 digits long. If you are unsure of your routing or account number, call your bank.

Applicant's Account Number:	XXXXXXXXXXXXXXXXX
Repeat Account Number:	

Credit cards are not accepted. Your bank information is transferred over a secure connection and is completely confidential.

BY CLICKING ON THE "FINISH" BUTTON, I AGREE TO THE TERMS AND CONDITIONS OF USING MY BANK ACCOUNT AS A PAYMENT METHOD, WHICH ARE LISTED BELOW, AND AUTHORIZE THE STATE OF IOWA TO DEBIT MY BANK ACCOUNT FOR THE LICENSING FEE LISTED ABOVE.

1. Bank Account Payments. By choosing to use a bank account as your payment method

Please print a copy of this page for your records before clicking the "FINISH" button.

Finish

If you are not taken to a confirmation screen after clicking on "Finish", please see the notes at the top of the applicant signature screen to find out why the application was not submitted.

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Dram Shop Liability Certificate of Insurance LA0001073, White Horse Patrol Club, Sergeant Bluff

Complete the information below and click SUBMIT to endorse this Renewal application.

POLICY INFORMATION

Reason for re-submittal:

This is to certify: *Scottsdale Insurance Company*

Policy Number: CPS2583891

Assured: White Horse Patrol Club

DBA: White Horse Patrol Club

Address: 1689 Old Highway 141

Address Line 2:

City: Sergeant Bluff

State: Iowa **Zip:** 51007

Policy Effective Date: 04/05/2017 **MM/DD/YYYY**

To: (•) **Thru:** ( )

Expiration Date: 04/05/2018 **MM/DD/YYYY**

CHECK LIST

- [x] **Outdoor Service Endorsement**
- [x] **Policy Information Verified (if incorrect please contact the licensee)**

Does this policy contain an annual aggregate limit provision? Yes

If Yes, Annual aggregate limit is: $251,000 - $300,000

The above-mentioned policy of insurance (hereinafter policy) contains coverage to comply with the provisions of Iowa Code section 123.92 and all regulations of the Iowa Department of Commerce, Alcoholic Beverages Division.

The policy may be canceled by the Company of the Assured giving 30 days notice in writing to the Alcoholic Beverages Division at its office, Ankeny, Iowa. The 30 days notice will commence from the date notice is actually received by the division.

Whenever requested by the division, the company agrees to furnish to the division a duplicate original of the policy and all pertinent endorsements.

Signature: [x] **Date:** 02/16/2017 **MM/DD/YYYY**

Submit

Follow us with RSS, Facebook or Twitter

Contact Us

Iowa Alcoholic Beverages Division
1918 SE Hulsizer Road, Ankeny, IA 50021
Toll Free 866.IowaABD (866.469.2223)
Local 515.281.7400

- Terms and Conditions
- Privacy Policy

State of Iowa
ALCOHOLIC BEVERAGES DIVISION

- License
- Privileges
- Applicant
- Status Of Business
- Ownership - Names
- Ownership - Interests
- Criminal History
- Premises
- General Premises
- Applicant Signature
- Dram Cert
- Local Endorse
- History

Local Authority Endorsement LA0001073, White Horse Patrol Club, Sergeant Bluff

Complete the information below and click SUBMIT to endorse the Renewal.

LICENSE INFORMATION

Local Authority: *County of Woodbury*
Daytime Phone for Local Authority: (712) 279-6465

- ○ License Approved
- ○ License Denied — Reason For Denial:
- ○ License Timely Filed — Reason For Timely Filing:

Effective Date: 04/05/2017 Expiration Date: 04/04/2018

CHECK LIST

Fire inspection completed:	Yes ○ No ○
Health inspection completed	Yes ○ No ○
Was a DCI background check run	Yes ○ No ○

Fee Amount: $624.00
Local Authority Share: $260.00

E-MAIL

Please provide the local authority email address below. Once the application has been reviewed and approved, a copy of the license will be emailed to this address.

Local Authority E-mail Address

COMMENTS

Signature: Date: MM/DD/YYYY

Submit

Follow us with RSS, Facebook or Twitter

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Toll Free 866.IowaABD (866.469.2223)
Local 515.281.7400

#9

WOODBURY COUNTY BOARD OF SUPERVISORS AGENDA ITEM(S) REQUEST FORM

Date: March 2, 2017 Weekly Agenda Date: March 7, 2017

ELECTED OFFICIAL / DEPARTMENT HEAD / CITIZEN: John Pylelo - Planning and Zoning

WORDING FOR AGENDA ITEM:

Receive Zoning Commission and Staff Recomendation; Approval of Final Platting and Authorization of Chairman's Signature Re: R.J. Addition- A Minor Subdivision; GIS Parcel #894518100008.

ACTION REQUIRED:

Approve Ordinance ☐	Approve Resolution ☑	Approve Motion ☐
Public Hearing ☐	Other: Informational ☐	Attachments ☑

EXECUTIVE SUMMARY:

Rodney and Jodi Lieber wish to subdivide a 9.55 acre parcel so the 3.65 acre homestead portion of the parcel can be sold.

BACKGROUND:

The Liebers purchased an 8.0 acre portion of parent parcel in 1985 and increased the parcel's size by an 1.55 acres in 2009 by adjacent land purchase. They have used the parcel both as their personal residence and in the operation of the businesses known as Lieber Construction Inc. and Bridgeport Materials, Inc. See attached application, parcel information, parcel aerial and final platting.

FINANCIAL IMPACT:

None. Permit application fees cover direct expenses.

IF THERE IS A CONTRACT INVOLVED IN THE AGENDA ITEM, HAS THE CONTRACT BEEN SUBMITTED AT LEAST ONE WEEK PRIOR AND ANSWERED WITH A REVIEW BY THE COUNTY ATTORNEY'S OFFICE?

Yes ☐ **No** ☐

RECOMMENDATION:

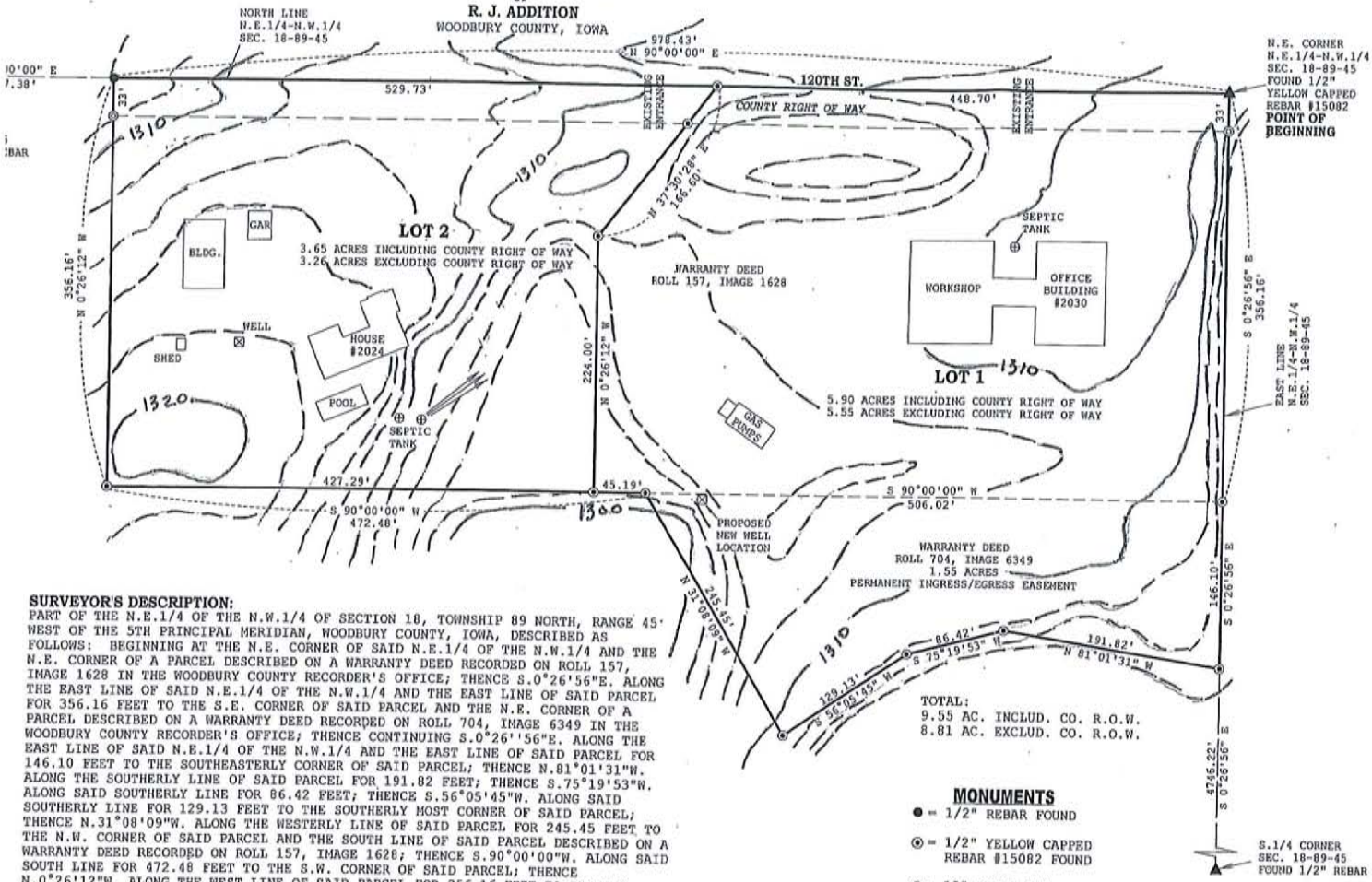
Staff recommends approval of the below motion subject to conditions outlined in recommended motion.

ACTION REQUIRED / PROPOSED MOTION:

A motion to... "Receive Zoning Commission and Staff Recommendation; Approval of the Final Platting and Authorization of Chairman's Signature conditioned upon: 1.) the recording of Paving Agreement meeting County's paving policies; and 2.) the filing of Petitions to Re-Zone from the applicants."

Approved by Board of Supervisors April 5, 2016.

PRELIMINARY SKETCH
A MINOR SUBDIVISION PLAT
OF
R. J. ADDITION
WOODBURY COUNTY, IOWA



SURVEYOR'S DESCRIPTION:
PART OF THE N.E.1/4 OF THE N.W.1/4 OF SECTION 18, TOWNSHIP 89 NORTH, RANGE 45 WEST OF THE 5TH PRINCIPAL MERIDIAN, WOODBURY COUNTY, IOWA, DESCRIBED AS FOLLOWS: BEGINNING AT THE N.E. CORNER OF SAID N.E.1/4 OF THE N.W.1/4 AND THE N.E. CORNER OF A PARCEL DESCRIBED ON A WARRANTY DEED RECORDED ON ROLL 157, IMAGE 1628 IN THE WOODBURY COUNTY RECORDER'S OFFICE; THENCE S.0°26'56"E. ALONG THE EAST LINE OF SAID N.E.1/4 OF THE N.W.1/4 AND THE EAST LINE OF SAID PARCEL FOR 356.16 FEET TO THE S.E. CORNER OF SAID PARCEL AND THE N.E. CORNER OF A PARCEL DESCRIBED ON A WARRANTY DEED RECORDED ON ROLL 704, IMAGE 6349 IN THE WOODBURY COUNTY RECORDER'S OFFICE; THENCE CONTINUING S.0°26''56"E. ALONG THE EAST LINE OF SAID N.E.1/4 OF THE N.W.1/4 AND THE EAST LINE OF SAID PARCEL FOR 146.10 FEET TO THE SOUTHEASTERLY CORNER OF SAID PARCEL; THENCE N.81°01'31"W. ALONG THE SOUTHERLY LINE OF SAID PARCEL FOR 191.82 FEET; THENCE S.75°19'53"W. ALONG SAID SOUTHERLY LINE FOR 86.42 FEET; THENCE S.56°05'45"W. ALONG SAID SOUTHERLY LINE FOR 129.13 FEET TO THE SOUTHERLY MOST CORNER OF SAID PARCEL; THENCE N.31°08'09"W. ALONG THE WESTERLY LINE OF SAID PARCEL FOR 245.45 FEET TO THE N.W. CORNER OF SAID PARCEL AND THE SOUTH LINE OF SAID PARCEL DESCRIBED ON A WARRANTY DEED RECORDED ON ROLL 157, IMAGE 1628; THENCE S.90°00'00"W. ALONG SAID SOUTH LINE FOR 472.48 FEET TO THE S.W. CORNER OF SAID PARCEL; THENCE N.0°26'12"W. ALONG THE WEST LINE OF SAID PARCEL FOR 356.16 FEET TO THE N.W. CORNER OF SAID PARCEL AND THE NORTH LINE OF SAID N.E.1/4 OF THE N.W.1/4; THENCE N.90°00'00"E. ALONG SAID NORTH LINE AND THE NORTH LINE OF SAID PARCEL FOR 978.43 FEET TO THE POINT OF BEGINNING. CONTAINING 9.55 ACRES INCLUDING COUNTY RIGHT OF WAY AND 8.81 ACRES EXCLUDING SAID RIGHT OF WAY. SUBJECT TO AND TOGETHER WITH ANY AND ALL EASEMENTS, RESTRICTIONS AND COVENANTS.

NOTE:
THE NORTH LINE OF SAID N.E.1/4 OF THE N.W.1/4 IS ASSUMED TO BEAR N.90°00'00"E.

TOTAL:
9.55 AC. INCLUD. CO. R.O.W.
8.81 AC. EXCLUD. CO. R.O.W.

MONUMENTS
● = 1/2" REBAR FOUND
⊙ = 1/2" YELLOW CAPPED REBAR #15082 FOUND
◎ = 12" SPIKE SET

UTILITIES:
POWER - WOODBURY COUNTY R.E.C.
TELEPHONE - WIATEL
WATER - PRIVATE WELL
SEWER - PRIVATE SEPTIC SYSTEM

FOUND 1/2" REBAR

BOARD OF SUPERVISORS' RESOLUTION
RESOLUTION NO. _____

RESOLUTION ACCEPTING AND APPROVING R. J. ADDITION, WOODBURY COUNTY, IOWA.

WHEREAS, THE OWNERS AND PROPRIETORS DID ON THE ____ DAY OF _____, 2017, FILE WITH THE WOODBURY COUNTY ZONING COMMISSION A CERTAIN PLAT DESIGNATED AS R. J. ADDITION, WOODBUI COUNTY, IOWA; AND

WHEREAS, IT APPEARS THAT SAID PLAT CONFORMS WITH ALL OF THE PROVISIONS OF THE CODE OF THE STATE OF IOWA AI ORDINANCES OF WOODBURY COUNTY, IOWA, WITH REFERENCE TO THE FILING OF SAME; AND

WHEREAS, THE ZONING COMMISSION OF WOODBURY COUNTY, IOWA HAS RECOMMENDED THE ACCEPTANCE AND APPROVAL OF SA PLAT; AND

WHEREAS, THE COUNTY ENGINEER OF WOODBURY COUNTY, IOWA HAS RECOMMENDED THE ACCEPTANCE AND APPROVAL OF SAID PLAT.

NOW THEREFORE, BE, AND IT IS HEREBY RESOLVED BY THE WOODBURY COUNTY BOARD OF SUPERVISORS, WOODBURY COUNTY STATE OF IOWA, THAT THE PLAT OF R. J. ADDITION, WOODBURY COUNTY, IOWA BE, AND THE SAME IS HEREBY ACCEPTED AND APPROVED, AND THE CHAIRMAN AND SECRETARY OF THE WOODBURY COUNTY BOARD OF SUPERVISORS, WOODBURY COUNTY STATE OF IOWA, ARE HEREBY DIRECTED TO FURNISH TO THE OWNERS AND PROPRIETORS A CERTIFIED COPY OF THIS RESOLUTION AS REQUIRED BY LAW.

PASSED AND APPROVED THIS _____ DAY _____, 2017.

_____
MATTHEW UNG
CHAIRMAN
BOARD OF SUPERVISORS
WOODBURY COUNTY, IOWA

ATTEST: _____
PATRICK F. GILL
SECRETARY

6. The next agenda Item is a Public Hearing and Recommendation to the Board of Supervisors Re: The Final Plat for R.J. Addition - a Minor Subdivision; GIS Parcel #894518100008.

Application Background, Location and Zoning

Rodney Lieber, Jodi Lieber, Luke Grigg and Karla Grigg have filed a subdivision application and final platting. The final platting proposes to subdivide a 9.55 gross acre parcel into two (2) lots. Thje Grigg's purchased proposed Lot 2 from the Liebers in 1985. The purpose for creating the independent 3.65 acre parcel containing the Grigg's current single family dwelling along with certain nearby accessory structures, utility locations and drive is to transfer fee title ownership to the Griggs. The remaining Lot 1 will remain controlled by the Liebers as it contains the structures and contractor yard areas used in the operation of the Lieber family businesses known as Lieber Construction, Inc. and Bridgeport Materials, Inc.

The parent parcel lies within rural Woodbury County abutting the southern side of 120th St. The parent parcel is serviced by two drives addressed 2024 and 2030 120th St. The drives are located approximately 0.4 miles west of the intersection of 120th St. and Eastland Avenue. The location is within a portion of the NE ¼ of the NW ¼ of Section 18, Banner Township.

The parent parcel currently has split zoning designations. The northern 8 acres is zoned LI-PD (Light Industrial – Planned Development) and the southern 1.55 acres are zoned AP-(Agricultural Preservation). This unusual "split zoning" occurred due to the fact the Liebers purchased the additional southern portion in 2009. The LI-PD zoning was established to allow the parent parcel to be used both for Residential and Light Industrial use purposes.

The parent parcel is not located within any special flood hazard area or within any drainage district. The current and proposed use of the parent parcel and its structures are classified as legal conforming uses within the stated zoning district designation and Woodbury County zoning ordinances. Staff will recommend the re-zoning of the respective lots upon final plat recording.

CSR

The parent parcel's average Unadjusted CSR2 value is not available due to its history of non-agricultural use. Parcel adjacent thereto have the following Unadjusted CSR2 values: to the West and South 44.91; to the North 61.16 and to the East 63.87. Each of these values are acceptable for subdivision platting approval consideration.

Paving Agreement

The location of the platted lots is along gravel surfaced roadway County roadway ROW. A Paving Agreement meeting paving policy standards is required as a condition for final plat approval.

Extraterritorial Review

Not applicable. There is no incorporated area within two miles of the parent parcel.

Utilities

Independent well and septic systems service the respective lots.

Property Owner Notice

The ten (10) property owners within 1000' and as listed within the certified abstractor's affidavit submitted with the application have been timely notified of the public hearing. The Planning and Zoning office has not received comment from any property owner owning property within 1,000'.

Agency Comment

The following departments or agencies were provided copies of the platting and asked to make comment. Responses noted are as of the date of this document.

Woodbury County REC: No response Received

Wiatel: No Response Received

Woodbury County Soil and Water Conservation District: No Response Received.

Iowa Department of Natural Resources: No Response Received.

Siouxland District Health Department: No response Received

Woodbury County Assessor: No response Received

Woodbury County Board of Supervisors: No response Received

Woodbury County Department of Emergency Services: No response Received

Department of Emergency Management: No Response Received

Woodbury County Engineer: *See attached comments dated February 21, 2017 from the Woodbury County Engineer.*

Woodbury County Recorder-Real Estate Department: *The subdivision name has been reserved and is available for use.*

Fire Chief- Lawton Fire District: No Response Received

Pioneer Bank, Sioux City – No Response Received

Staff Recommendation:

Subject to public hearing testimony, the staff recommendation supports a final plat approval recommendation by your Commission conditioned upon:

1.) The applicant is to record a Paving Agreement meeting all Woodbury County paving policy standards.

2.) That the applicants submit re-zoning applications prior to the recording of the final platting in order the two lots be re-zoned to support the intended future respective uses. Staff will recommend Lot 1 be re-zoned LI (Light Industrial) and Lot 2 to be rezoned AP (Agricultural Preservation).

Attachments

Attached find the following documentation for your review:

- Location and Parcel Information
- Final Platting
- Topographical Contour Mapping with structure and utility placements
- February 21, 2017 letter from County Engineer
- Aerial Photography
- Onsite Photographs

Your Commission is asked to hold the required public hearing and make recommendation on final plat approval to the Board of Supervisors.

6. Public Hearing and Recommendation to Board of Supervisors Re: Final Platting for R.J Addition – a Minor Subdivision

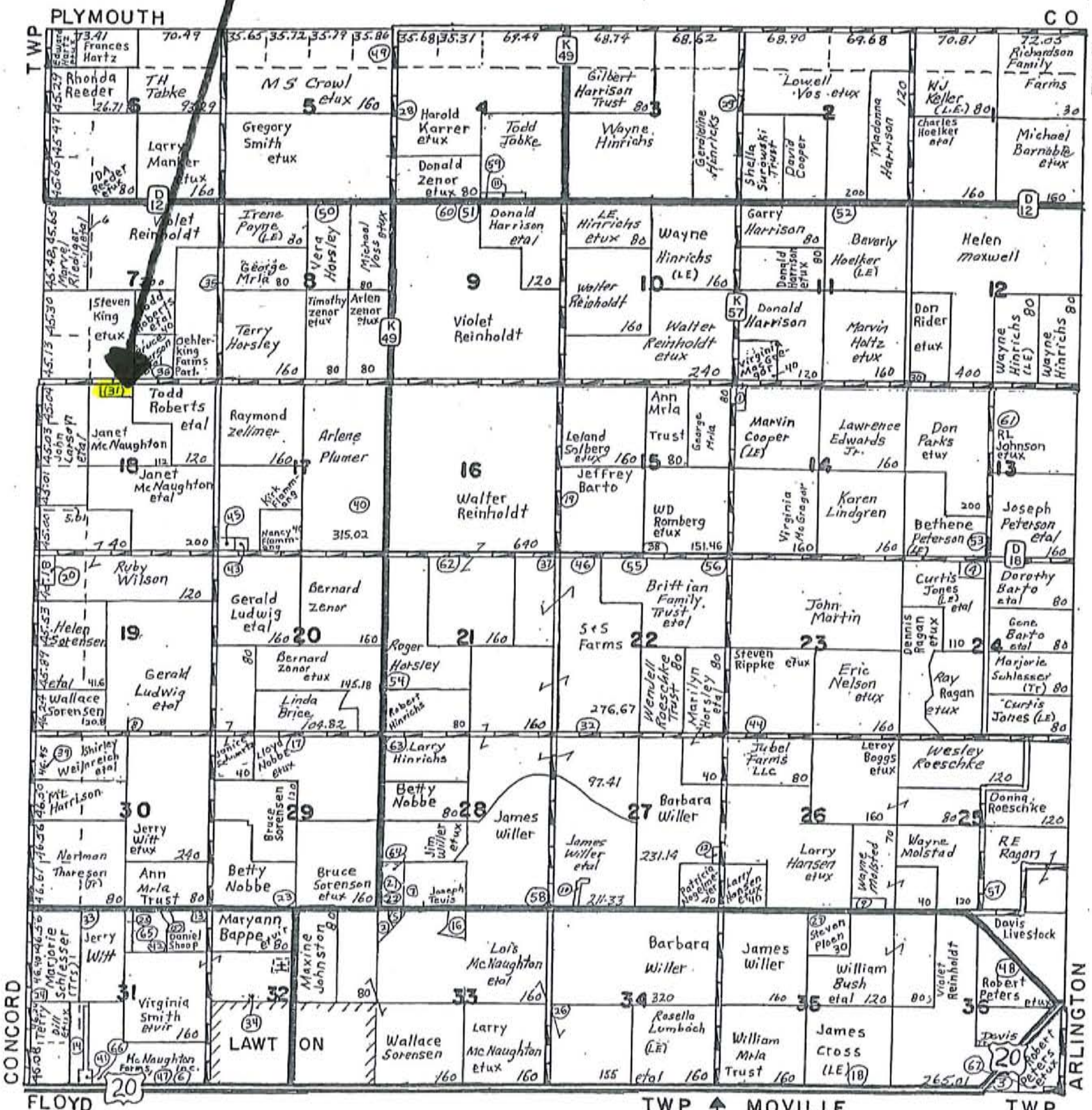
T89N - R45W OF 5TH P M

BANNER

1. Sec.14 David Cooper,etux-9.54
2. Sec.33 Thomas Thiesen,etux
3. Sec.36 Brian Berkenpas,etux
4. Sec.24 Donald Lee,etux-10
5. Sec.33 Joel Stilwell,etux
6. Sec.31 Bradley Pedersen,etux-2.8
7. Sec.28 Thomas Thiesen,etux
8. Sec.36 Tracy Countryman,etux-2.02
9. Sec.25 Thane Mosier,etux
10. Sec.27 Larry Riemenschneider,etal
11. Sec.4 Phillip Greg,etux-4.25
12. Sec.27 Fred Helmich,etux-3.93
13. Sec.31 Douglas Marks,etux-5.22
14. Sec.31 Kenneth Uhl,etux
15. Sec.31 Thomas Robinson,etux-5
16. Sec.33 Jerry Furne,etux
17. Sec.29 Todd Copley
18. Sec.35 Bradley Hopp,etux
19. Sec.15 Craig Pedersen,etux
20. Sec.19 Lee Coulter,etux-10
21. Sec.28 Joseph Tevis,etal
22. Sec.28 Bobby Geisinger,etux-8.33

9 Marlene Nitzschke

24. Sec.31 Mark Davies,etux-5.5
25. Sec.31 Scott Semple,etux-5
26. Sec.34 Lois McNaughton-5
27. Sec.35 Lee Lander,etux-10
28. Sec.4 Fred Davis,etux-2.58
29. Sec.3 M. J. Beavers,etux-10
30. Sec.12 Roger Forch-5.5
31. Sec.18 Rodney Lieber,etux-8
32. Sec.22 Arlan Kolker,etux-1.13
33. Sec.31 Marvin Roethler,etux
34. Sec.32 City of Lawton-7.26
35. Sec.7 B. A. Anderson,etux-5.0
36. Sec.7 R. M. Anderson,etux-5.0
37. Sec.21 Jon Zook,etux
38. Sec.15 Paul Roberts,etux-8.54
39. Sec.30 Charles Hammack-5
40. Sec.17 Dav. Swanger-4.98
41. Sec.31 Lawton Airport,Inc.-7.98
42. Sec.31 Marvin Harrison,etux
43. Sec.17 Kirk Flammang,etux
44. Sec.23 Steven Rippke,etux-2
45. Sec.17 David Law,etux
46. Sec.22 Kent Zimmerman,etux-2.2
47. Sec.31 Stanley Chartier,etux-11.57
48. Sec.36 Hans Nelson,etux-5.06
49. Sec.5 Sheila Gerke-13.16
50. Sec.8 Robert Weatherly,etux-3.0
51. Sec.9 Walter Reinholdt,etux-2.43
52. Sec.11 Charles Hoelker,etal-10.09
53. Sec.13 Kenneth Petersen,etux
54. Sec.21 Roger Horsley,etux
55. Sec.22 Marty Anfinson,etux
56. Sec.22 Stephen Riser
57. Sec.25 David Brosamie,etux
58. Sec.28 Curtis Blawkenburg,etux
59. Sec.4 Cindy Fink-2.0
60. Sec.9 Gary Heath-2.27
61. Sec.13 William Destigher,etux-9.28
62. Sec.21 Bradley Rohde,etux-2.54
63. Sec.28 Richard Scott,etux-5.0
64. Sec.28 Beverly Hoelker-5.33
65. Sec.31 Mark Lofton,etux-6.10
66. Sec.3 Curtis McNaughton,etux-5.0



Beacon™ Woodbury County, IA / Sioux City

Summary

Parcel ID	894518100008
Alternate ID	000000000867086
Property Address	2024 120th St Lawton
Sec/Twp/Rng	18-89-45
Brief Legal Description	BANNER TOWNSHIP IRREG TCT IN NE NW BEG AT NE COR OF NE NW THNC S 502.26 FT THNC NWLY 191.82 FT, THNC SWLY 86.42 FT, THNC SWLY 129.13 FT, THNC NWLY 245.45 FT, THNC W TO A PT THAT IS 356.16 FT S OF N LINE OF THE NE NW, THNC N 356.16 FT, THNC E 978.43 FT TO POB 18-89-45 (Note: Not to be used on legal documents)
Document(s)	N/A
Gross Acres	9.55
Net Acres	8.81
Exempt Acres	0.74
CSR	N/A
Class	R - Residential
Tax District	024 BANNER LAWTON BRONSON COMM
School District	LAWTON BRONSON

Owner

Deed Holder	Contract Holder	Mailing Address
Lieber Rodney D & Jodi P Lieber 310 N Derby Ln Unit 380 North Sioux City SD 57049-7619		

Land

Lot Area 8.81 Acres; 383,764 SF

Residential Dwellings

Residential Dwelling	
Occupancy	Single-Family / Owner Occupied
Style	1 Story Frame
Architectural Style	N/A
Year Built	1985
Condition	Normal
Grade what's this?	3+10
Roof	Asph / Hip
Flooring	L/C
Foundation	C Blk
Exterior Material	Stl
Interior Material	Drwl
Brick or Stone Veneer	
Total Gross Living Area	2,310 SF
Attic Type	None;
Number of Rooms	0 above; 0 below
Number of Bedrooms	0 above; 0 below
Basement Area Type	Full
Basement Area	1,780
Basement Finished Area	600 SF - Standard Finish; 920 - Rec. Room (Single)
Plumbing	2 Base Plumbing (Full ; 1 Three Quarter Bath;
Appliances	1 Range Unit; 1 Dishwasher;
Central Air	Yes
Heat	Yes
Fireplaces	
Porches	1S Frame Open (104 SF);
Decks	Wood Deck-Med (144 SF); ; Wood Deck-Med (462 SF); Concrete Patio-Med (807 SF);
Additions	1 Story Frame (530 SF);
Garages	440 SF (20F W x 22F L) - Det Frame (Built 1930); 868 SF - Att Frame (Built 1985);

Agricultural Buildings

Plot #	Type	Description	Width	Length	Year Built	Building Count
0	Steel Utility Building	MACH SHED	28	40	1967	1

Yard Extras

#1 - (1) Swimming Pool 648 SFWSA, Residence-Vinyl, Cover=No, Heat=No, Diving Brd=Yes, Built 1985

Sales

Date	Seller	Buyer	Recording	NUTC	Type	Multi Parcel	Amount
5/23/1985			157/1628	NORMAL ARMS-LENGTH TRANSACTION	Contract		$19,250.00

+

Valuation

		2016	2015	2014	2013	2012
	Classification	Residential	Residential	Residential	Residential	Residential
+	Assessed Land Value	$28,890	$28,890	$27,000	$27,000	$27,000
+	Assessed Building Value	$0	$0	$0	$0	$0

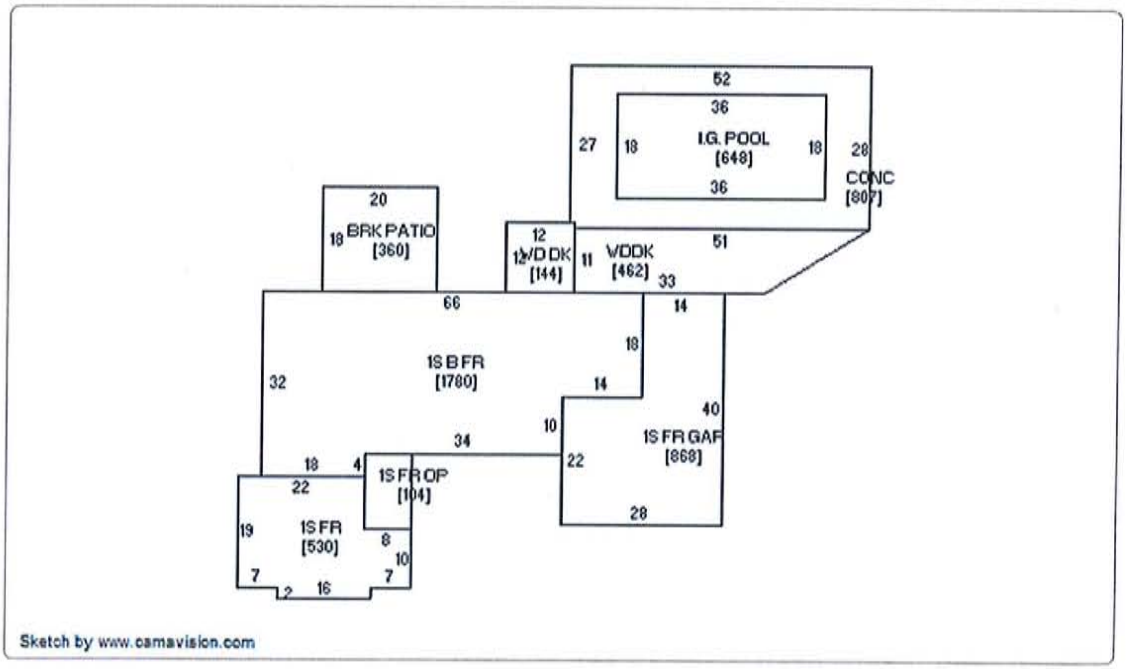
	2016	2015	2014	2013	2012
+ Assessed Dwelling Value	$265,390	$265,390	$248,030	$248,030	$248,030
+ Exempt Value	$0	$0	$0	$0	$0
= **Gross Assessed Value**	**$294,280**	**$294,280**	**$275,030**	**$275,030**	**$275,030**
- Exempt Value	$0	$0	$0	$0	$0
= **Net Assessed Value**	**$294,280**	**$294,280**	**$275,030**	**$275,030**	**$275,030**

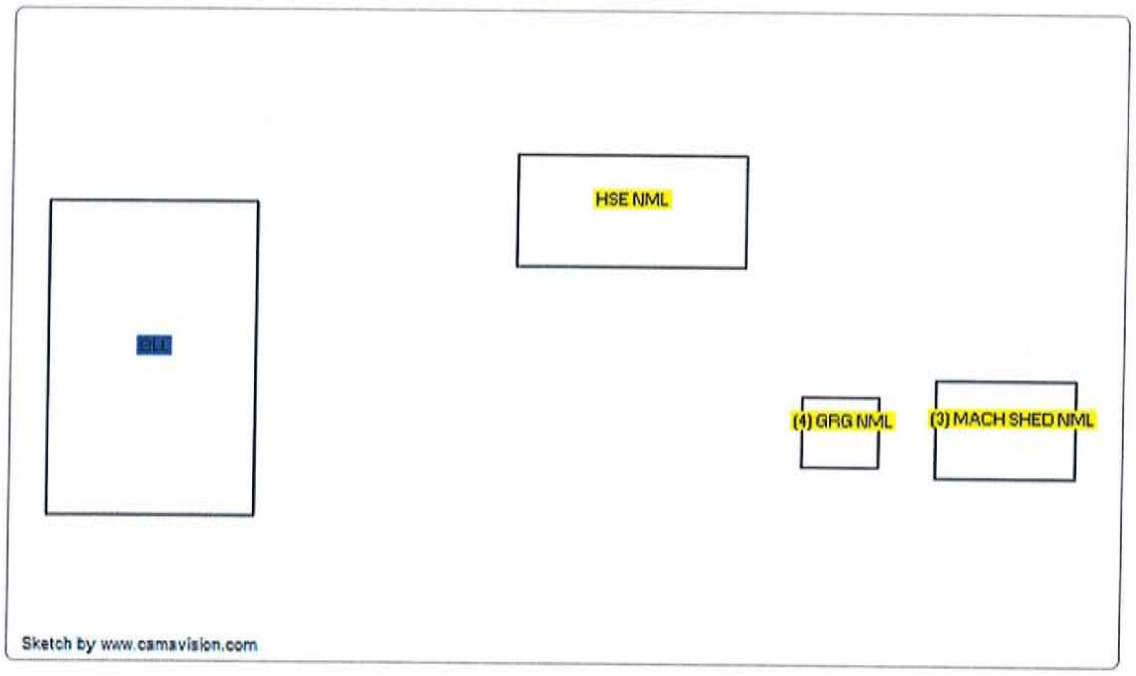
Treasurer Link

Click here to view tax information for this parcel

Photos

Sketches





No data available for the following modules: Commercial Buildings, Permits, Valuation (Sioux City), Iowa Land Records.

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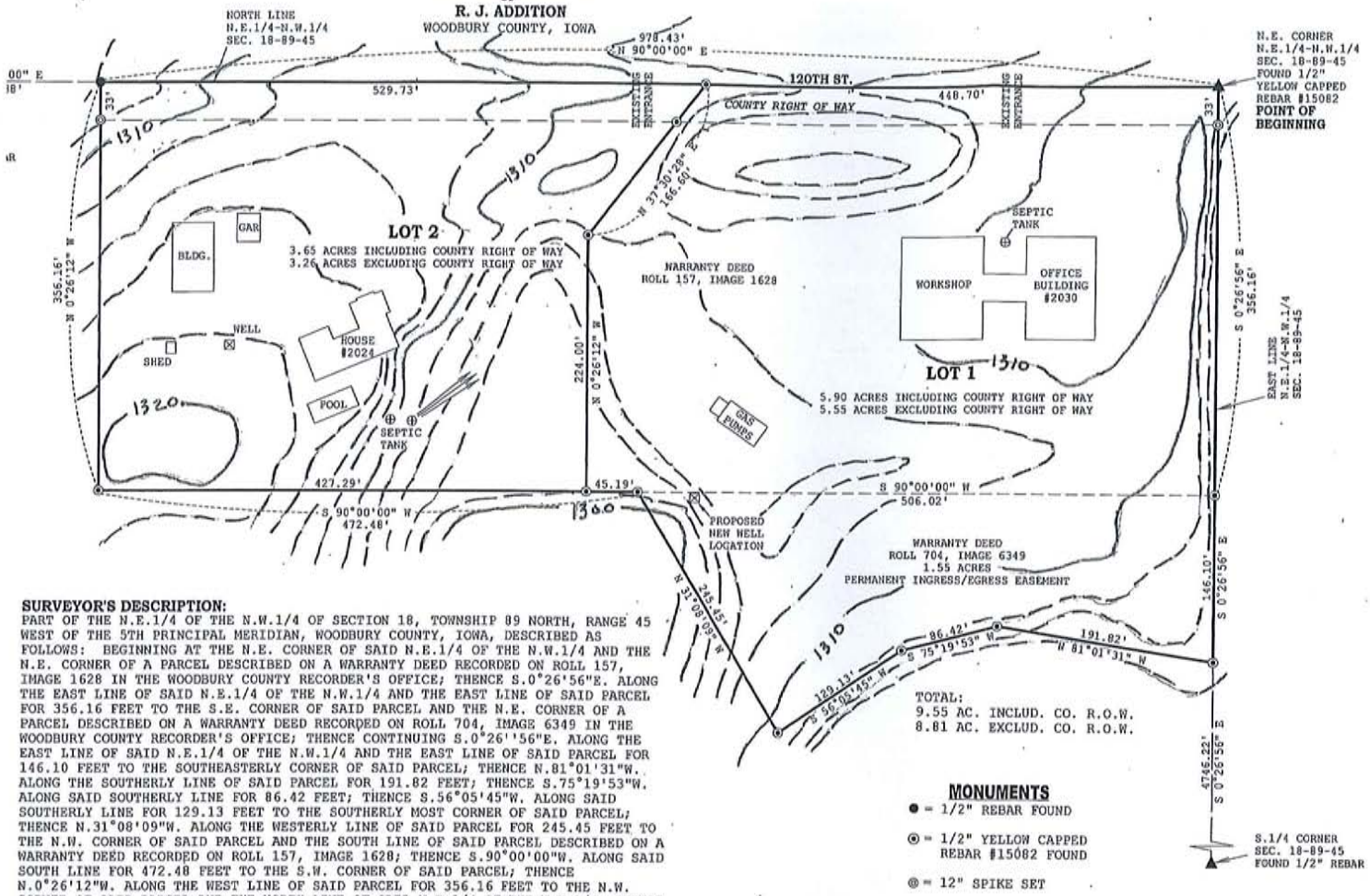
PRELIMINARY SKETCH
A MINOR SUBDIVISION PLAT
OF
R. J. ADDITION
WOODBURY COUNTY, IOWA



TOTAL:
9.55 AC. INCLUD. CO. R.O.W.
8.81 AC. EXCLUD. CO. R.O.W.

MONUMENTS

- ● = 1/2" REBAR FOUND
- ⊙ = 1/2" YELLOW CAPPED REBAR #15082 FOUND
- ⊛ = 12" SPIKE SET

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TELEPHONE - WIATEL
WATER - PRIVATE WELL
SEWER - PRIVATE SEPTIC SYSTEM

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NOTE:
THE NORTH LINE OF SAID N.E.1/4 OF THE N.W.1/4 IS ASSUMED TO BEAR N.90°00'00"E.

R. J. Addition

04/07/2014

Beacon™ Woodbury County, IA / Sioux City

Overview

Legend

- Roads
- Corp Boundaries
- Townships

County Residential Sales

- 2014
- 2015
- 2016

Sioux City Residential Sales

- Parcels

Parcel ID	894518100008	**Alternate ID**	000000000867086	**Owner Address**	LIEBER RODNEY D & JODI P LIEBER
Sec/Twp/Rng	18-89-45	**Class**	R		310 N DERBY LN UNIT 380
Property Address	2024 120TH ST LAWTON	**Acreage**	9.55		NORTH SIOUX CITY SD 57049-7619

District 024 BANNER LAWTON BRONSON COMM

Brief Tax Description
BANNER TOWNSHIP
IRREG TCT IN NE NW
BEG AT NE COR OF NE
NW THNC S 502.26 FT
THNC NWLY 191.82 FT,
THNC SWLY 86.42 FT,
THNC SWLY 129.13 FT,
THNC NWLY 245.45 FT,
THNC W TO A PT THAT
IS 356.16 FT S OF N
LINE OF THE NE NW,
THNC N 356.16 FT,
THNC E 978.43 FT TO
POB 18-89-45
(Note: Not to be used on legal documents)

Date created: 2/7/2017
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Beacon™ Woodbury County, IA / Sioux City

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- 2015
- 2016

Sioux City Residential Sales

- Parcels

Parcel ID	894518100008	**Alternate ID**	000000000867086	**Owner Address**	LIEBER RODNEY D & JODI P LIEBER 310 N DERBY LN UNIT 380 NORTH SIOUX CITY SD 57049-7619
Sec/Twp/Rng	18-89-45	**Class**	R		
Property Address	2024 120TH ST LAWTON	**Acreage**	9.55		
District	024 BANNER LAWTON BRONSON COMM				
Brief Tax Description	BANNER TOWNSHIP IRREG TCT IN NE NW BEG AT NE COR OF NE NW THNC S 502.26 FT THNC NWLY 191.82 FT, THNC SWLY 86.42 FT, THNC SWLY 129.13 FT, THNC NWLY 245.45 FT, THNC W TO A PT THAT IS 356.16 FT S OF N LINE OF THE NE NW, THNC N 356.16 FT, THNC E 978.43 FT TO POB 18-89-45 (Note: Not to be used on legal documents)				

Date created: 2/7/2017
Last Data Uploaded: 2/6/2017 10:40:20 PM

Woodbury County Secondary Roads Department

759 E. Frontage Road • Moville, Iowa 51039
Telephone (712) 279-6484 • (712) 873-3215 • Fax (712) 873-3235

COUNTY ENGINEER
Mark J. Nahra, P.E.
mnahra@sioux-city.org

ASSISTANT TO THE COUNTY ENGINEER
Benjamin T. Kusler, E.I.T.
bkusler@sioux-city.org

SECRETARY
Tish Brice
tbrice@sioux-city.org

To: John Pylelo, Woodbury County Planning and Zoning Administrator

From: Mark J. Nahra, County Engineer

Date: February 21, 2017

Subject: R J Addition – minor subdivision

The Secondary Road Department has reviewed the plat for the above referenced final platting for the R J Addition forwarded with your memo dated February 13, 2017.

I am offering the following comments for your consideration.

- We checked the closure on the plat and found it in compliance with the requirements for the full subdivision of 1 in 10,000 and 1 in 5,000 for each lot as required by Section 355.8 of the Code of Iowa.

- I reviewed the parcel for access. The existing driveways will continue to serve the now separated parcel. No new entrances were requested. If additional entrances are needed, the owner is required to contact the Secondary Road Department for an entrance permit.

- I have no other concerns or issues with this conditional use application.

If there are any more questions or issues that arise later, please contact this office.

Cc: File


01/07/2014
1 of 11
Select Date
N
2019 120TH ST
1300 ft
120th Street
1300 ft
2024 120TH ST
1300 ft
1300 ft
1300 ft
2024 120TH ST
© 2017 Pictometry

#10a

RESOLUTION

NOTICE OF PROPERTY SALE

Parcels #194595

WHEREAS Woodbury County, Iowa was the owner under a tax deed of a certain parcel of real estate described as:

South 16 ft VAC 37th St. North of Lots 7-8 West ½ Lot 9 Block 4 Hatfield Addition, City of Sioux City, Woodbury County, Iowa
(320 Argonne Place)

NOW THEREFORE,

BE IT RESOLVED by the Board of Supervisors of Woodbury County, Iowa as follows:

1. That a public hearing on the aforesaid proposal shall be held on the **7th Day of March, 2017 at 4:35 o'clock p.m.** in the basement of the Woodbury County Courthouse.

2. That said Board proposes to sell the said parcel of real estate at a public auction to be held on the **7th Day of March, 2017**, immediately following the closing of the public hearing.

3. That said Board proposes to sell the said real estate to the highest bidder at or above a **total minimum bid of $127.00** plus recording fees.

4. That this resolution, preceded by the caption "Notice of Property Sale" and except for this subparagraph 4 be published as notice of the aforesaid proposal, hearing and sale.

Dated this 21st Day of February, 2017.

ATTEST: WOODBURY COUNTY BOARD OF SUPERVISORS

Patrick F. Gill
Woodbury County Auditor
and Recorder

Matthew A. Ung, Chairman

REQUEST FOR MINIMUM BID

Name: Eufracio Taracena **Date:** 8/18/15

Address: 3700 Grandview Blvd **Phone:** _____

Address or approximate address/location of property interested in:

320 Argonne Pl.

GIS PIN # 894716103001

**This portion to be completed by Board Administration **

Legal Description:

South 16 ft. VAC 37th St. North of Lots 7-8 West 1/2 Lot 9 Block 84 Hatfield Addition City of Sioux City, Woodbury County, Iowa

Tax Sale #/Date: #1191 - 2001 **Parcel #** 194595

Tax Deeded to Woodbury County on: 9/21/16

Current Assessed Value: Land $100 **Building** - **Total** $100

Approximate Delinquent Real Estate Taxes: $1900

Approximate Delinquent Special Assessment Taxes: $420

***Cost of Services:** $126

Inspection to: Mark Monson **Date:** 8/18/15

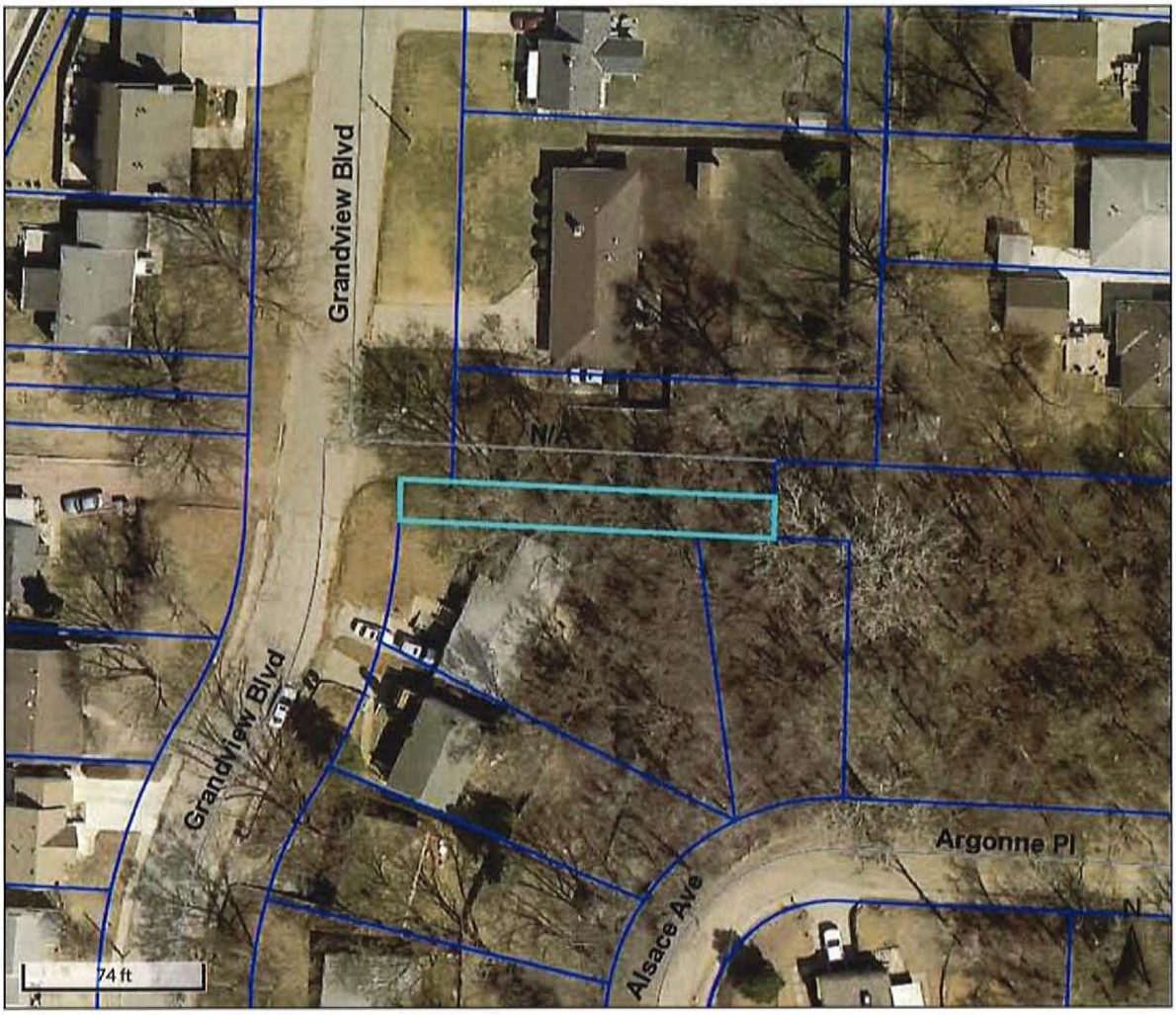
Minimum Bid Set by Supervisor: $1 plus $126 in cost of services Total: $127

Date and Time Set for Auction: March 7th @ 4:35

* Includes: Abstractors costs; Sheriff's costs: publishing costs; and mailing costs.

(MinBidReq/MSWord)

Beacon™ Woodbury County, IA / Sioux City



Overview

Legend

- Roads
- Corp Boundaries
- Townships

County Residential Sales

- 2014
- 2015
- 2016

Sioux City Residential Sales

- Parcels

Parcel ID	894716103001	**Alternate ID**	194595	**Owner Address**	WOODBURY COUNTY
Sec/Twp/Rng	0-0-0	**Class**	R		620 DOUGLAS ST
Property Address	320 ARGONNE PL	**Acreage**	n/a		SIOUX CITY IA 51101
	SIOUX CITY				

District 087 SC LL SIOUX CITY COMM

Brief Tax Description HATFIELD
S 16 FT VAC 37TH ST
N OF LOTS 7-8 W 1/2
LOT 9 BLK 4
(Note: Not to be used on legal documents)

Date created: 2/16/2017
Last Data Uploaded: 2/16/2017 1:33:17 AM

Developed by
The Schneider Corporation

Beacon™ Woodbury County, IA / Sioux City

Overview

Legend

- Roads
- Corp Boundaries
- Townships

County Residential Sales

- 2014
- 2015
- 2016

Sioux City Residential Sales

- Parcels

Parcel ID	894716103001	Alternate ID	194595	Owner Address	WOODBURY COUNTY
Sec/Twp/Rng	0-0-0	Class	R		620 DOUGLAS ST
Property Address	320 ARGONNE PL	Acreage	n/a		SIOUX CITY IA 51101
	SIOUX CITY				

District: 087 SC LL SIOUX CITY COMM

Brief Tax Description: HATFIELD
S 16 FT VAC 37TH ST
N OF LOTS 7-8 W 1/2
LOT 9 BLK 4
(Note: Not to be used on legal documents)

Date created: 2/16/2017
Last Data Uploaded: 2/16/2017 1:33:17 AM

Developed by
The Schneider Corporation

#10b

RESOLUTION

NOTICE OF PROPERTY SALE

Parcels #016488

WHEREAS Woodbury County, Iowa was the owner under a tax deed of a certain parcel of real estate described as:

A tract of land being part of vacated Isabella Street and part of Tax Lot 5 of the auditor's plat of Tax Lots in Government Lots 1, 2, 3 and 4 of Section 29, Township 89 North, Range 47 West of the 5th P.M., Sioux City, Woodbury County, Iowa, described as follows:

Commencing at the intersection of North line of West Highland Avenue and the East line of Isabella Street; Thence South along said East line for 432.19 feet; Thence Southeasterly along the Southerly Line of South Myrtle Street for 118.95 feet; Thence South for 178.00 feet to the Northerly Line of the Tri View Avenue; Thence Northwesterly along the Northerly Line of the Tri View Avenue for 29.00 feet to the Point of Beginning; Thence continuing along the Northerly Line of Tri View Avenue for 51.00 feet; Thence continuing along the Northerly Line of Tri View Avenue for 71.12 feet to the Center Line of vacated Isabella Street; Thence North along said Center Line for 65.00 feet; Thence Southeasterly for 121.70 feet; Thence South for 67.25 feet to the Point of Beginning.
(1221Tri-View Avenue)

NOW THEREFORE,

BE IT RESOLVED by the Board of Supervisors of Woodbury County, Iowa as follows:

1. That a public hearing on the aforesaid proposal shall be held on the **7th Day of March, 2017 at 4:37 o'clock p.m.** in the basement of the Woodbury County Courthouse.

2. That said Board proposes to sell the said parcel of real estate at a public auction to be held on the **7th Day of March, 2017**, immediately following the closing of the public hearing.

3. That said Board proposes to sell the said real estate to the highest bidder at or above a **total minimum bid of $5,000.00** plus recording fees.

4. That this resolution, preceded by the caption "Notice of Property Sale" and except for this subparagraph 4 be published as notice of the aforesaid proposal, hearing and sale.

Dated this 21st Day of February, 2017.

ATTEST: WOODBURY COUNTY BOARD OF SUPERVISORS

Patrick F. Gill
Woodbury County Auditor
and Recorder

Matthew A. Ung, Chairman

REQUEST FOR MINIMUM BID

Name: Century 21 | Pro-Link Kyle Kelly **Date:** 1/31/17

Address: _____ **Phone:** 223-3671

Address or approximate address/location of property interested in:

1221 Tri-View

GIS PIN #

A tract of land being part of vacated Isabella Street and part of Tax Lot 5 of the auditor's plat of Tax Lots in Government Lots 1, 2, 3 and 4 of Section 29, Township 89 North, Range 47 West of the 5th P.M., Sioux City, Woodbury County, Iowa, described as follows:

Commencing at the intersection of North line of West Highland Avenue and the East line of Isabella Street; Thence South along said East line for 432.19 feet; Thence Southeasterly along the Southerly Line of South Myrtle Street for 118.95 feet; Thence South for 178.00 feet to the Northerly Line of the Tri View Avenue; Thence Northwesterly along the Northerly Line of the Tri View Avenue for 29.00 feet to the Point of Beginning; Thence continuing along the Northerly Line of Tri View Avenue for 51.00 feet; Thence continuing along the Northerly Line of Tri View Avenue for 71.12 feet to the Center Line of vacated Isabella Street; Thence North along said Center Line for 65.00 feet; Thence Southeasterly for 121.70 feet; Thence South for 67.25 feet to the Point of Beginning.

Tax Sale #/Date: #22 6/19/1989 **Parcel #** 016488

Tax Deeded to Woodbury County on: 3/3/92

Current Assessed Value: Land $13,600- **Building** Ø **Total** $13,600-

Approximate Delinquent Real Estate Taxes: Ø

Approximate Delinquent Special Assessment Taxes: Ø

***Cost of Services:** Ø

Inspection to: Matthew Ung **Date:** 2/1/17

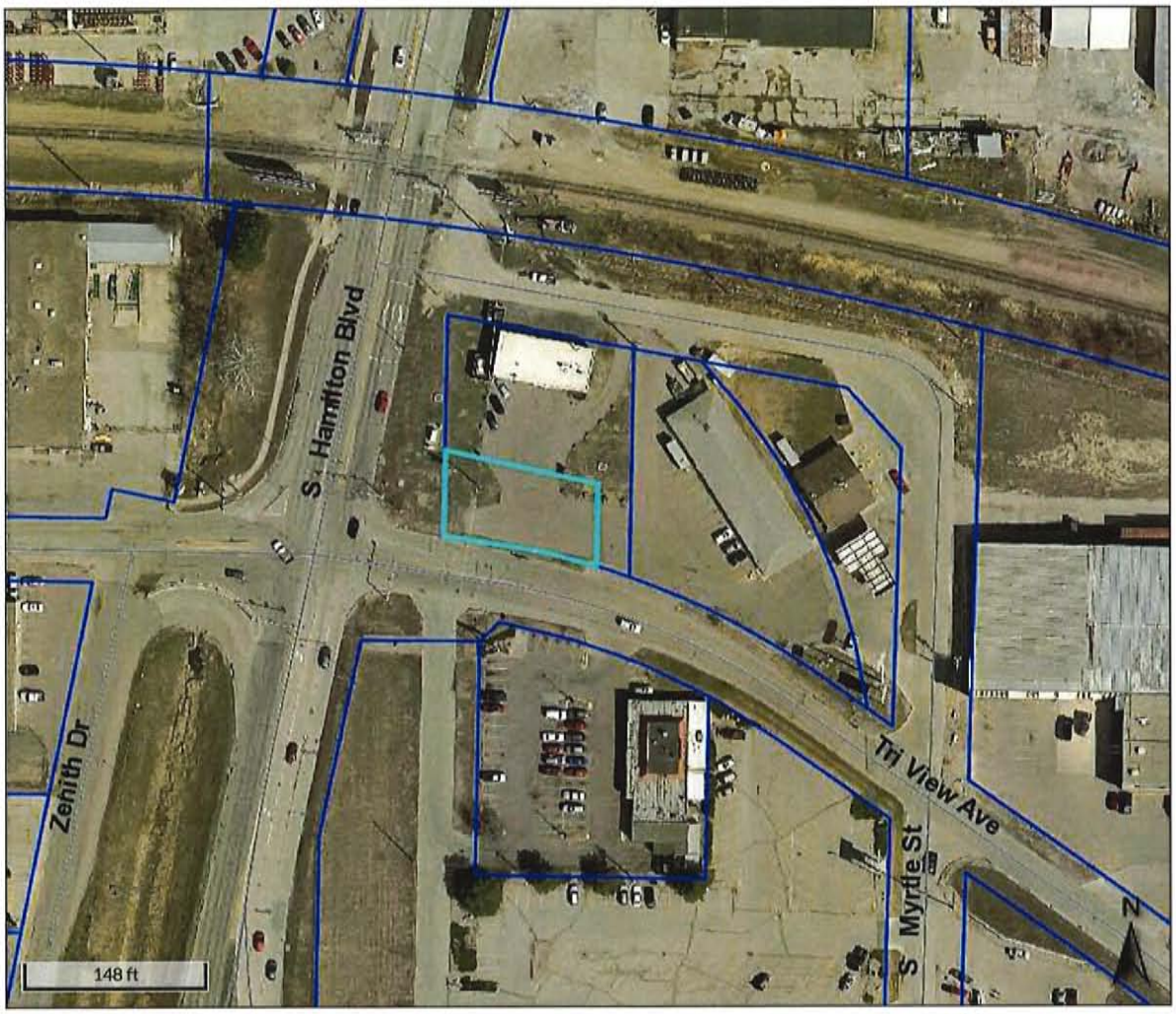
Minimum Bid Set by Supervisor: $5,000-

Date and Time Set for Auction: March 7th @ 4:37

* Includes: Abstractors costs; Sheriff's costs: publishing costs; and mailing costs.

(MinBidReq/MSWord)

Beacon™ Woodbury County, IA / Sioux City



Overview

Legend

- Roads
- Corp Boundaries
- Townships

County Residential Sales

- 2014
- 2015
- 2016

Sioux City Residential Sales

- Parcels

Parcel ID	894729334002	Alternate ID	016488	Owner Address	WOODBURY COUNTY
Sec/Twp/Rng	0-0-0	Class	C		620 DOUGLAS ST
Property Address	1221 TRI VIEW AVE	Acreage	n/a		RM 104
	SIOUX CITY				SIOUX CITY IA 51101-1248

District

Brief Tax Description

123 RIVER FRONT SC LL
SIOUX CITY OUTLOTS
PT AUD PLAT GOVT LOT
S 1-2-3-4 COMM N LIN
E OF W HIGHLAND AVE
AND E LINE OF ISABEL
LA ST THEC S 432.19
FT, SELY 118.95 FT,
S 178 FT, NWLY 29 FT
TO POB; THEC NWLY 5
1 FT, NWLY 71.12 FT,
N 65 FT, SELY 121.7
FT, & S 67.25 FT 29
-89-47

(Note: Not to be used on legal documents)

Date created: 2/1/2017
Last Data Uploaded: 1/31/2017 10:28:31 PM

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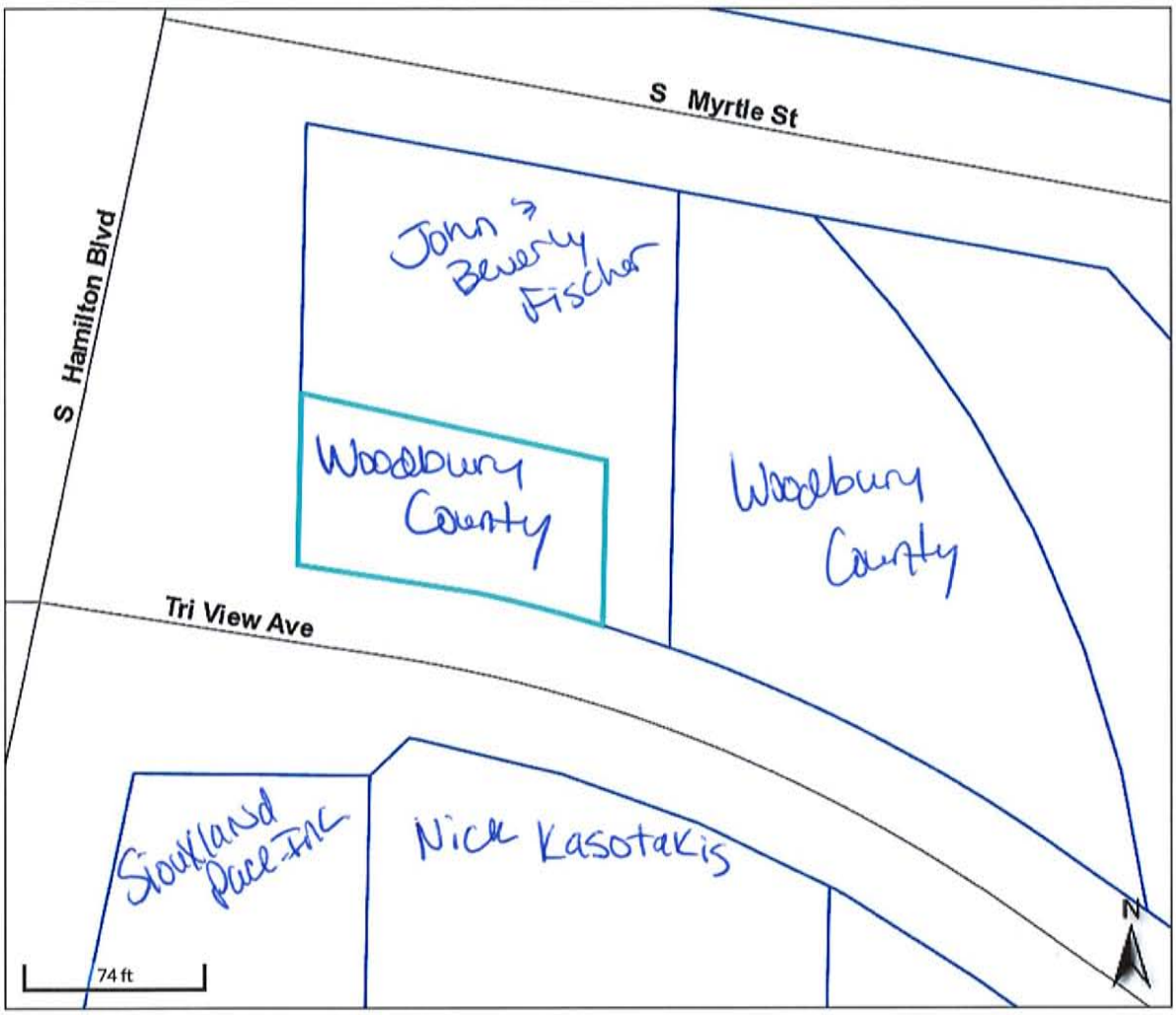

Overview

Legend

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- Corp Boundaries
- Townships

County Residential Sales

- 2014
- 2015
- 2016

Sioux City Residential Sales

- Parcels

Parcel ID	894729334002	Alternate ID	016488	Owner Address	WOODBURY COUNTY
Sec/Twp/Rng	0-0-0	Class	C		620 DOUGLAS ST
Property Address	1221 TRI VIEW AVE	Acreage	n/a		RM 104
	SIOUX CITY				SIOUX CITY IA 51101-1248
District					
Brief Tax Description	123 RIVER FRONT SC LL SIOUX CITY OUTLOTS PT AUD PLAT GOVT LOT S 1-2-3-4 COMM N LIN E OF W HIGHLAND AVE AND E LINE OF ISABEL LA ST THEC S 432.19 FT, SELY 118.95 FT, S 178 FT, NWLY 29 FT TO POB; THEC NWLY 5 1 FT, NWLY 71.12 FT, N 65 FT, SELY 121.7 FT, & S 67.25 FT 29 -89-47				

(Note: Not to be used on legal documents)

Date created: 2/1/2017
Last Data Uploaded: 1/31/2017 10:28:31 PM

WOODBURY COUNTY BOARD OF SUPERVISORS AGENDA ITEM(S) REQUEST FORM

#11

Date: 02/27/2017 Weekly Agenda Date: 03/07/2017

ELECTED OFFICIAL / DEPARTMENT HEAD / CITIZEN: County Attorney PJ Jennings & County Sheriff Dave Drew

WORDING FOR AGENDA ITEM:

Consideration and approval to participate with the City of Sioux City in the submission of the Edward J. Byrne Memorial Justice Grant (JAG) & Residential Substance Abuse Treatment (RSAT) Program application to the Governor's Office of Drug Control Policy.

ACTION REQUIRED:

Approve Ordinance ☐	Approve Resolution ☐	Approve Motion ☑
Public Hearing ☐	Other: Informational ☐	Attachments ☑

EXECUTIVE SUMMARY:

n/a

BACKGROUND:

The grant program has been in place for a number of years.

FINANCIAL IMPACT:

unknown at this time

IF THERE IS A CONTRACT INVOLVED IN THE AGENDA ITEM, HAS THE CONTRACT BEEN SUBMITTED AT LEAST ONE WEEK PRIOR AND ANSWERED WITH A REVIEW BY THE COUNTY ATTORNEY'S OFFICE?

Yes ☐ **No** ☐

RECOMMENDATION:

To approve participation in the application process

ACTION REQUIRED / PROPOSED MOTION:

Motion to approve

Approved by Board of Supervisors April 5, 2016.

Governor's Office of
Drug Control Policy

STATE FISCAL YEAR 2018

EDWARD J. BYRNE MEMORIAL JUSTICE ASSISTANCE GRANT (JAG) & RESIDENTIAL SUBSTANCE ABUSE TREATMENT (RSAT) PROGRAM APPLICATION INFORMATION

CFDA 16.738 – Byrne-JAG
CFDA 16.593 - RSAT

For application materials go to www.iowagrants.gov

For other resources go to https://odcp.iowa.gov/applyJAG

Updated 2/15/2017

Table of Contents

Contents

APPLICATION SUBMISSION

Applications for funding must be received by the Governor's Office of Drug Control Policy **by 4:30 p.m. April 6, 2017.** Applications will be submitted through www.iowagrants.gov , which is an online grant management tool. *Note: registration with www.iowagrants.gov is required prior to submitting an application. Registration may take several days to complete.*

ODCP CONTACTS

If you have questions related to the Byrne-JAG/RSAT grant programs, please contact:

Dennis Wiggins
Phone (515) 725-0311
Email dennis.wiggins@iowa.gov

Governor's Office of Drug Control Policy
Pape State Office Building
215 E. 7th Street, 5th Floor
Des Moines, Iowa 50319
https://odcp.iowa.gov

BYRNE-JUSTICE ASSISTANCE GRANT (JAG) RESIDENTIAL SUBSTANCE ABUSE TREATMENT (RSAT) APPLICATION STATE FISCAL YEAR 2018

GENERAL GRANT PROGRAM INFORMATION

The Governor's Office of Drug Control Policy (ODCP), under the Byrne-Justice Assistance Grant Program, provides financial assistance to support a broad range of activities to prevent and control crime and to improve the criminal justice system. The JAG program places an emphasis on violent crime, drug offenses, and serious offenders.

The Residential Substance Abuse Treatment (RSAT) program provides funding to units of government in developing and implementing residential substance abuse treatment programs in state and local correctional and detention facilities. RSAT programs provide individual and group treatment activities for offenders and must: Correctional Facility - last between 6 and 12 months or Jail – last at least 3 months; be provided in residential treatment facilities set apart from the general correctional population; focus on the substance abuse problems of the inmate; include drug/alcohol testing of participants including periodic and randomized testing; and develop the inmate's cognitive, behavioral, social, vocational, and other skills to solve substance abuse and related problems.

Funding for this solicitation is available through Iowa's Byrne-Justice Assistance Grant and Residential Substance Abuse Treatment allocations. Approximately $1,670,000 will be committed through this competitive grant process for use in State Fiscal 2018. Of the JAG program funds, federal guidelines currently require a minimum of 55.1% to be passed through to local jurisdictions and a maximum of 44.9% to be passed to state agencies.

JAG applications within six federally-approved "Program Purpose Areas" and addressing at least one of the state-established "Priorities" will be considered for funding.

Byrne-JAG Program Purpose Areas

A. Law Enforcement Programs
B. Prosecution and Court Programs
C. Prevention and Education Programs
D. Corrections And Community Corrections Programs
E. Drug Treatment Programs
F. Planning Evaluation and Technology Improvement Programs

Iowa Byrne-JAG Priorities

The Iowa Drug Policy Advisory Council has identified the following results areas for which grant funding will be prioritized. Priority funding will be provided to projects which employ strategies that positively affect these broadly targeted areas.

- Strengthen Efforts to Make Iowans Healthy & Drug Free
- Safeguard Iowa Communities From Illegal Drugs
- Break the Cycle of Drug Use, Crime, Delinquency, and Incarceration

Refer to the Iowa Drug Control Strategy 2017 (pages 5-20) for additional detail. The strategy is available on the ODCP website https://odcp.iowa.gov.

Evidence-Based Programs/Practices

The Federal administrator for the Byrne Justice Assistance Grant Program (the Bureau of Justice Assistance) is moving toward an evidence based programs/practices approach for Byrne JAG funded projects. Guidance on the precise meaning and implications of these changes are being developed by BJA.

Potential grantees should be aware that changes in program guidance from the Bureau of Justice Assistance will be passed on to grantees of the Office of Drug Control Policy. These changes may result in additional planning and data collection activities for ODCP and our grantees.

The Office of Drug Control Policy places strong emphasis on the use of data and evidence in policy making and programming. Grantees should commit to documenting and describing, to the extent possible, a data/evidence focused response to particular crime and substance abuse problem(s) in their grant applications.

For more information about evidence-based programs, as outlined by the U.S. Department of Justice, go to www.crimesolutions.gov .

GRANT APPLICATION INSTRUCTIONS

ELIGIBLE APPLICANTS

Those eligible to receive grant funds from ODCP include state and local units of government, Indian tribes, faith based organizations and nonprofit entities. A local unit of government is defined as a city, county, town, township or other general purpose political subdivision of a state and includes Indian tribes that perform law enforcement functions as determined by the Secretary of the Interior. A city or county must be the legal applicant and recipient on behalf of city and county departments. Iowa faith based and nonprofit organizations are eligible to receive grant funding, but **application must be made through a state or local unit of government.**

APPLICATION DEADLINE

Applications for state fiscal year 2018 funding must be received by ODCP through the grant management system (www.iowagrants.gov) by **4:30 p.m. April 6, 2017**.

**Note: Registration with www.iowagrants.gov is required prior to submitting an application. Registration may take several business days to complete. Do not wait until the last minute to begin your application. Difficulty with registration will not be an appealable hardship.*

APPLICATION PROCESS

Applications will be accepted through www.iowagrants.gov which is an online grant management tool.

Instruction on the use of www.iowagrants.gov will be provided by the Office of Drug Control Policy. An online training is scheduled for February 22nd at 9:00 a.m. Training registration instructions are posted at https://odcp.iowa.gov/applyJAG. Additional technical assistance in using iowagrants.gov can be arranged by contacting Dennis Wiggins at 515-725-0311 or dennis.wiggins@iowa.gov.

Applications are public record. Do not include confidential information.

Each project requires a separate grant application.

"NEW" AND "CONTINUATION" GRANTEES

For the purpose of completing this application, *New Projects* will be those projects which have not received prior funding from ODCP, or did not receive grant funds during the current grant period, or are applying in their first year as an enhancement project. **Continuation projects* are those projects that are currently receiving grant funds from ODCP.

The Office of Drug Control Policy requires different information from new applicants and those applying for continuation funding. The emphasis for new applicants is on the need for and the quality of the proposed project, including projected community impact. For continuation applicants the emphasis is on demonstrating measurable results.

Two Byrne-JAG/RSAT funding opportunities are posted to www.iowagrants.gov:

- ***New Applicants*** are required to use the opportunity titled SFY 2018 Byrne-JAG/RSAT – New Applicants.
- ***Continuation Applicants*** are required to use the opportunity titled SFY 2018 Byrne-JAG/RSAT – Continuation Applicants.

**Continuation project applicants who have or anticipate significant changes to their project may be required to complete the application as a new applicant. If your continuation project anticipates significant changes, contact ODCP for guidance and authorization prior to application.*

FORTY-EIGHT MONTH FUNDING LIMITATION

ODCP imposes a 48 month eligibility limit on Byrne JAG-funded projects that are not multi-jurisdictional drug task forces. Drug task forces were exempted from the limit by the original Byrne grant program, and ODCP continues an exception for them under Byrne JAG.

25% CASH MATCH

The Office of Drug Control Policy requires applicants to provide a minimum cash match of 25% of the total project cost. Federal funds may be used to pay up to 75% of the cost of a project, and may not be used to supplant other funding sources that would otherwise be made available. The remaining non-federal share must be in cash. The matching funds must be in addition to funds that would otherwise be made available for project related activities.

Acceptable sources of cash match:

A. Local and state appropriations.
B. Funds contributed from private sources.
C. Federal funds limited to the following sources:
    1. Housing and Community Development Act of 1974,
    2. Appalachian Regional Development Act, and
    3. Equitable Sharing Program (Federal Asset Forfeiture Program).
D. Existing resources that were used in areas other than criminal justice activities.
E. Salaries of existing personnel who are transferred to grant activities if the original positions are filled with new personnel.
F. Asset forfeiture funds (as allowed by state and federal guidelines).
G. Program Income and Related Interest – including program fees and conference registrations.

The application must contain a commitment for matching funds and the source of the matching funds must be identified. All projects awarded grant funds must maintain records showing the source, amount and timing of all cash match. The cash match must be put into the project during the grant project period.

NON-SUPPLANTING

The applicant assures that federal funds made available under this formula grant will not be used to supplant any other funding source, but will be used to increase the amounts of such funds that would, in the absence of federal funds, be made available for project activities.

ALLOWABLE/UNALLOWABLE EXPENSES

Allowable expenses are listed below along with a list of unallowable expenses. Although not a complete listing, the following is provided as a guide:

Allowable Expenses
Personnel costs
Equipment
Operating expenses
Building rental
Personnel training (may require prior approval by the Governor's Office of Drug Control Policy)
Overtime pay
Supplies
Travel (out of state travel requires prior approval by the Governor's Office of Drug Control Policy)
Professional services (requires prior approval by the Governor's Office of Drug Control Policy)

Unallowable Expenses Include:
Land acquisition
Bonuses or commissions
Travel or compensation for federal employees
Military type equipment
Lobbying
Fundraising

Due to federal restrictions and/or limited amounts of funding, as a general rule, ODCP does not fund DARE personnel, canines, weapons, tasers, basic law enforcement equipment, construction, vehicles, or provide continuation or stopgap funding for projects initiated with other grant funding.

GRANT PERIOD

Grants will be awarded by the Office of Drug Control Policy for a one (1) year period beginning July 1, 2017 through June 30, 2018. Grant projects are funded on a reimbursement basis. All projects awarded grant funds must complete and submit monthly expenditure report forms requesting federal reimbursement, and quarterly progress report forms. Financial and progress reporting will be submitted through the electronic grant management system. Grantees may be required to use an electronic transfer of funds process for reimbursement.

The Governor's Office of Drug Control Policy may, in certain cases, exercise discretion to provide grant

funding in future years to awards under this solicitation, through supplemental awards. In making decisions regarding supplemental awards, ODCP will consider several factors, including, but not limited to: the availability of funding, ODCP strategic priorities, evolving needs, and ODCP assessment of both the management of the grant (for example, timeliness and quality of progress reports), and the progress of the work funded under the award.

GRANT REVIEW

As part of ODCP's staff review of grant applications, input will be sought from peer advisors. All eligible applications will be evaluated using the criteria included in the application kit.

Following is a list of that criteria:

Budget:
Appropriateness of budgeted expenditures and justification.

Summary of the Project:
Clear descriptive summary of the project.

Problem Statement/Need Assessment:
Demonstrated need for the project in the area to be served.

Goals and Objectives:
The extent to which *measurable* goals and objectives are consistent with federal and state goals, and are clearly stated.

Project Administration:
Implementation, administration and key personnel involved in the proposed project.

Statement of Coordination:
Demonstration of coordination of activities with other agencies.

Project Evaluation:
The extent to which the applicant is able to track and maintain program performance data/information to measure its success and demonstrate its impact on Iowans.

Reviewer Assessment and Recommendations:
Overall impressions and recommendations of peer advisors.

SCORING

The scoring for this application is as follows:

	New Projects	Continuing Projects
Budget:	**15**	**5**
Summary:	**5**	**20**
Problem/Need:	**15**	**N/A**
Goals & Objectives:	**15**	**N/A**
Project Administration:	**10**	**N/A**

Coordination:	**15**	**N/A**
Evaluation/Performance:	**10**	**60**
Reviewer Assessment:	**15**	**15**
Total Score:	**100**	**100**

THE GRANT AWARD PROCESS

The following criteria shall be considered by the Governor's Office of Drug Control Policy (ODCP) in awarding federal JAG funds to applicants in Iowa:

- Availability of federal funds.
- Eligibility of applicant, based on U.S. Department of Justice guidelines.
- Priorities established by the Iowa Drug Policy Advisory Council, and outlined in Iowa's 2017 Drug Control Strategy https://odcp.iowa.gov/strategy.
- Prior measurable performance/effectiveness of programs, including those previously receiving federal funding through the Office of Drug Control Policy. Prior performance includes, but is not limited to, program and financial management, program impact (ability to meet or exceed previously approved goals and objectives), and quality/timeliness of reporting.

ODCP reserves the right to accept minor deviations from application requirements, if such deviations are considered to be non-substantive.

APPEALS

Grant awards will be made on or about June 1, 2017. Preliminary notices will be sent to those individuals identified as project directors in the applications. Any applicant whose proposal has been filed according to instructions contained herein, and who is aggrieved by the awards made, may request an appeal based on a showing that the instructions governing the grant selection process have not been properly applied.

Appeals must be filed with the Director, Governor's Office of Drug Control Policy, Pape State Office Building, 215 E. 7th Street, 5th Floor, Des Moines, Iowa, 50319, within ten working days of the date of the notification of preliminary awards. Appeals must be in writing and clearly state how ODCP erred in following the instructions in the grant application kit. ODCP will refrain from awarding funds until the Director has resolved all appeals. The review will be conducted as expeditiously as possible so that all funds can be distributed in a timely manner. This procedure concludes the review process at the administrative level for purposes of Iowa Code Chapter 17A (1991).

WOODBURY COUNTY BOARD OF SUPERVISORS AGENDA ITEM(S) REQUEST FORM #12a

Date: 02-21-17 Weekly Agenda Date: 03-07-17

ELECTED OFFICIAL / DEPARTMENT HEAD / CITIZEN: Glenn Sedivy, Communications Director

WORDING FOR AGENDA ITEM:

Approval of a Motion to a Tower Lease with Motorola Solutions, Inc. for an initial term of thirteen (13) years between Woodbury County, Starcomm and Motorola Solutions Inc.

ACTION REQUIRED:

Approve Ordinance ☐ Approve Resolution ☐ Approve Motion ☑

Public Hearing ☐ Other: Informational ☐ Attachments ☐

EXECUTIVE SUMMARY:

The Starcomm Executive Board recommends to the County Supervisors to approve a tower lease with Motorola Solutions Inc. for an initial term of 13 years to use a Starcomm radio tower.

BACKGROUND:

This is a partnership lease agreement with Motorola Solutions Inc. and Starcomm to operate on the State of Iowa's new Statewide radio system

FINANCIAL IMPACT:

None

IF THERE IS A CONTRACT INVOLVED IN THE AGENDA ITEM, HAS THE CONTRACT BEEN SUBMITTED AT LEAST ONE WEEK PRIOR AND ANSWERED WITH A REVIEW BY THE COUNTY ATTORNEY'S OFFICE?

Yes ☐ **No** ☐

RECOMMENDATION:

Approve this Tower Lease

ACTION REQUIRED / PROPOSED MOTION:

Approve a Motion to enter into an initial term of 13 years to lease tower space on the Starcomm West Tower at 2100 Platte Road Homer, NE. to Motorola Solutions, Inc.

Approved by Board of Supervisors April 5, 2016.

THIS LEASE IS THE PROPERTY OF:
Woodbury County, Iowa
620 Douglas Street, Suite 104
Sioux City, Iowa 51101

AND THE PROPERTY OF:
Customer Support Manager, State of Iowa,
Motorola Solutions
1303 E. Algonquin Road
Schaumburg, IL 60196
ATTN: Dave Gordon
Phone: 319-377-6686

and

Law Department
Motorola Solutions, Inc.
500 W, Monroe St. 43rd Floor
Chicago, IL 60661
ATTN: Rich Heller
Phone: (847) 576-1817
Fax: (312) 559-5694

C/O Starcomm Public Safety Board
P.O. Box 447
Sioux City, Iowa 51102
ATTN: Glenn Sedivy
Phone: (712) 279-6959
Fax: (712) 279-6157

SITE LEASE AGREEMENT

THIS SITE LEASE AGREEMENT (hereinafter called "Lease"), is made and entered into as of this _____day of _____, 2017, by and between Woodbury County, Iowa, whose address is 620 Douglas Street, Suite 104, Sioux City, Iowa 51101 under the direction of the Starcomm Public Safety Board, whose address is P.O. Box 447 Sioux City, Iowa 51102, hereinafter called "Lessor", and Motorola Solutions, Inc. having an address of 500 W. Monroe St., Chicago, IL 60661, hereinafter called "Lessee".

In consideration of the covenants and agreements hereinafter set forth, the parties hereto agree as follows:

1. Leased Premises. Lessor is the owner of that certain real property described below (the "Property"). Lessor hereby Lease to the Lessee, for the period, at the rental, and upon the terms and conditions hereinafter set forth, certain portions of the Property, tower, and a portion of the interior space on the ground (the "Premises") located on the Property within the County of Dakota County, Nebraska

2. Communications Equipment Upgrade and Installation. A detailed list of Communications Equipment to be installed and upgraded by the Lessee at the Property and a detailed Site Plan is hereby attached as **Exhibit A** and incorporated herein as if fully set forth in this Agreement. "Communications Equipment" shall be defined as: a communications facility including (without limitation) antennae and radios; equipment cabinets; backup power sources (including batteries, generators and fuel storage tanks); and other associated equipment, fixtures, wiring, and cabling.

Lessee shall cause the Communications Equipment to be fully installed and upgraded on the Property by June 16, 2017. All costs associated with the installation of Communications Equipment and upgrading of

the existing system shall be borne by the Lessee. The Communications Equipment shall service the Public Safety communication needs of the area.

The legal description for the location of the above tower and equipment is:

A tract of land located in the North ½ of the Northeast ¼, of Section 10, T 27 N, R 8 E of the 6th P.M., Dakota County, Nebraska; more particularly described as follows:

Commencing at the Southeast Corner of the North 1/2 of the Northeast 1/4 of Section 10, T 27 N, R 8 E of the 6th P.M., Dakota County, Nebraska; thence N 90° 00′ 00" W on an assumed bearing on the South line of said North 1/2, 1265.00 feet; thence N 00° 00' 00" E and perpendicular to said South line, 30.00 feel to the point of beginning; thence N 90° 00' 00" W and parallel to said South line, 571.58 feet; thence N 30° 00' 00" E, 571.58 feet; thence S 30° 00' 00" E, 571.85 feet to the point of beginning, containing 3.25 acres, more or less.

(2100 Platte Road, Homer Nebraska)

3. Access. Lessor also grant to Lessee, the State of Iowa, and their respective employees, contractors, agents, representatives, and assigns, access to the Property and Premises described in paragraph one (1) above, seven days a week, 24 hours a day, throughout the term of this Lease, provided that, prior to Lessee or Lessee's contractors climbing the tower for antenna access, Lessee will give Lessor no less than 12 hours prior notice. To allow this access to climb the tower or Fenced Compound, Lessor will give Lessee a key to the lock on the Compound. Each time the Lessee's employee(s) access the location all the Lessee's employees will notify the Facility Manager, in writing, in person or if necessary over the phone by calling (712) 279-6960. These employees will be subject to criminal background checks, except in emergency situations and when otherwise agreed upon by Lessor in writing. Security access to the sites compound will be provided by the Starcomm Director or Facility Manager. Each employee of Lessee who climbs the tower will have in their possession a card showing that they have completed the Qualified Climber/Rescue course offered through Comtrain or similar program approved by Lessor. Each employee of Lessee will follow all OSHA regulations while climbing any portion of the tower including wearing all required safety harnesses and will use the safety climbing cable while on the tower. There will never be fewer than 2 certified climbers on the site during any type of climbing on the tower.

4. Initial Term and Commencement Date of Lease . The "Initial Term" of this Lease shall be for a period of Thirteen (13) years. The "Commencement Date" for the Initial Term of this Lease begins upon the start of installation of the Communications Equipment as described in Paragraph 1, in and about the Premises and expiring on the date which is thirteen (13) years thereafter. Lessee shall provide written notification to the Parties of the date when installation shall commence. In any event the commencement date shall be no later than April 1, 2017.

5. Renewal Terms. Lessor hereby grant to Lessee the right, privilege and option to extend this Lease for four (4) additional "Renewal Terms" of Five (5) years; provided that the total length of all terms does not extend beyond the term of the Lease Agreement between Lessor and The City County Law Enforcement Center of South Sioux/Dakota County ; each with the consent and written approval from Lessor, from the end of the Initial Term, under the same terms, covenants and conditions as herein contained, provided that Lessee is not in default of any of the terms, covenants or conditions of this Lease at the conclusion of the Initial Term or any prior Renewal Term, respectively. This Lease shall automatically terminate unless

Lessee gives written notice of the desire to extend or renew the Lease at least one hundred eighty (180) days prior to the end of the applicable term and obtains Lessor' consent to each requested extension.

6. Termination.

a. Both Lessor and Lessee shall have the right to terminate this Lease for cause, in the event the other party defaults on any material provision of this Lease**,** and in the event that such default is not cured within thirty (30) days after written notice thereof is provided to the other party. Said curative period shall be extended another thirty (30) days provided defaulting party has shown a good faith effort to cure default. Notwithstanding the foregoing, the curative period for any monetary default is thirty (30) days from receipt of written notice and the curative period for lapse in insurance coverage is ten (10) days from the receipt of written notice

b. The parties agree that in the event that federal or state law requires the installation of back up power sources or supplies that the terms of this Lease will require an amendment to be negotiated between the parties. No additional equipment shall be placed upon the Premises by Lessee without the written consent of Lessor. Notwithstanding the foregoing, Lessee may install upgraded Communications Equipment to replace existing Communications Equipment without the written consent of Lessor. However, a detailed list of replaced items must be promptly provided to the Lessor.

c. This Lease may be terminated without further liability as set forth below:

1) by either party in the event the other party defaults on any material provision of this Lease**,** and in the event that such default is not cured within thirty (30) days after written notice thereof is provided to the other party. Said curative period shall be extended another thirty (30) days provided defaulting party has shown a good faith effort to cure default. Notwithstanding the foregoing, the curative period for any monetary default is thirty (30) days from receipt of written notice and the curative period for lapse in insurance coverage is ten (10) days from the receipt of written notice; or

2) by Lessee if it does not obtain or maintain any license, permit or other approval necessary for the construction and operation of Lessee's facilities; or

3) by Lessee if Lessee is unable to occupy and utilize the tower site due to an action of the FCC, including without limitation, a take-back of channels, a change in frequencies, or a change in licensed coverage area; or

4) by Lessee if Lessee determines that the tower site is not appropriate for its operations for economic or technological reasons, including, without limitation, signal interference; or

5) by Lessor if the Lessor determine the tower site is no longer suitable to be used by Lessor for their operation and the Lessor choose to remove the building; or

6) by Lessor after the expiration of the initial term of this Lease upon providing Lessee with written notice. Such notice, if given by Lessor, must be given not less than three hundred sixty-five (365) days prior to the date therein specified (this time is given for Lessee to find a new site, get zoning approval, construct a new site and move Lessee's shelter and antennas); or

7.) by Lessor at any time upon occurrence of a Separation Event, as that term is defined in 14(f), by giving at least thirty (30) days' notice in writing to the Lessee.

8) by the parties mutual agreement.

d. In the event of termination or expiration of this Lease, Lessee shall have a reasonable period of time (not exceeding ninety (90) days from the effective date of termination unless a longer time is allowed elsewhere in this Lease) to remove all Communications Equipment from the Premises, however all improvements to the tower and/or ancillary structures shall be left in place and in good repair by the Lessee. Upon expiration of this Lease, Lessee shall restore the Premises to reasonably good condition and repair, subject to ordinary wear and tear on the Premises, which is specifically excepted. Failure of Lessee to remove its Communications Equipment at the expiration or termination of this Lease may result in Lessor removing the equipment and payment of all charges occasioned by such removal will be the responsibility of the Lessee.

7. Initial Term Rent .

a. Lessee shall pay Woodbury County, Iowa, administrator of funds of Starcomm Public Safety Board Ten Dollars ($10) and other good and valuable consideration as full consideration for the initial Term and all Renewal Terms of this Lease. Unless otherwise specified in this Lease, each party shall bear its own costs.

8. Use and Non-Interference of Premises. Lessee shall have the right to use the Property and Premises for the purpose of installing, removing, replacing, modifying, repairing, maintaining, and operating a communications facility including (without limitation) antennae and radios (including microwave antennae and radios); equipment cabinets; backup power sources (including batteries, generators and fuel storage tanks); and other associated equipment, fixtures, wiring, and cabling (collectively the "Communications Equipment"). The parties acknowledge that (a) the Communications Equipment will be owned by Lessee, the State of Iowa, or their respective assignee and (b) the Communications Equipment will be used for emergency services, public safety and other governmental purposes, including the Iowa State Patrol and other Iowa state agencies, and any federal, state, county, municipality or other governmental body, including any department or agency thereof. Lessee shall not do or permit any activities upon the Premises, which would cause interference to Lessor or with Lessor's principle use of the Premises as a Lattice Tower in Dakota County, Nebraska at 2100 Platte Road. The Lessee will be allowed to install its Communications Equipment inside and outside the communications tower house. This is not an exclusive lease of the premises. Lessor retains the right to lease additional space to other Tenants provided that the additional Tenants' equipment does not interfere with the activities and transmission signals of the Lessee. Additionally, Lessor will continue to use the premises for their own business or public safety purposes. Lessor affirmatively covenants that except for acts of God, neither Lessor nor its employees, agents, representatives, invitees, other tenants or licensees shall cause or allow others to cause interruption of electrical power or interruption of telephone service to the Communication Equipment.

9. Insurance and Indemnification.

Unless self-insured, at all times during the term of this Lease, Lessee shall at its expense carry and maintain for the mutual benefit of the Lessor:

a. Commercial General liability insurance against the claims for personal injury, death or property damage occurring in or about the Leased Premises or resulting from the installation, operation or maintenance of the Lessee's Communications Equipment on the Leased Premises, such insurance to be in the amount of $1,000,000.00 for personal injuries and deaths resulting from any one accident and for property damage in any one accident, and an aggregate coverage in the amount of $3,000,000.00 with Lessor included as additional insureds.

b. A Standard Workmen's Compensation and Employer's Liability Insurance Policy in the amount equal to the limit of liability and in a form prescribed by the laws of the state in which the Leased Premises is located.

c. Any contract workers contracted by Lessee shall also carry similar insurance as set forth in a. and b. above.

10. Damage or Destruction. If the Premises are damaged, destroyed by fire, winds, flood, or other natural or manmade cause, Lessor shall have the option to repair or replace the Premises at their sole expense, or to terminate this Lease effective on the date of such damage or destruction. Notwithstanding the foregoing, for purposes of implementing the ninety (90) day period specified in 6(d), the ninety (90) day period shall commence upon the later of (i) the Lessor having notified the Lessee of a decision not to repair or replace the Premises or (ii) sixty (60) days having passed without Lessor having notified Lessee of a decision to repair or replace the Premises (unless the Lessor have begun repair or replacement activities). In the event Lessor elect to terminate this Lease, Lessee shall have no further obligations hereunder. Lessor shall have up to sixty (60) days to decide on whether to repair or replace the Premises. Failure by Lessor to notify Lessee within sixty (60) days of Lessor' decision to repair or replace the Premises shall be deemed an election by Lessor to terminate this Lease, unless the Lessor have begun repair or replacement activities. If Lessor elect to repair or replace the Premises, Lessee shall have the option of either abating the rent due until such repair or replacement is completed and the Premises are restored to a condition that the Lessee can resume full operations at the Premises; or until Lessee begins operating a mobile telecommunication base station on the Premises. Lessee may immediately erect on an unused portion of the Property a temporary communications facility. In the event such repairs or restoration are not commenced within thirty (30) days or completed within ninety (90) days, Lessee may elect to terminate this Lease by so notifying Lessor in writing, The option to operate a mobile telecommunications base station on the Premises is subject to the Lessee obtaining all required State and local permits and obtaining verbal consent of the Starcomm Public Safety Board, said consent shall not be unreasonably withheld. Said verbal consent will be confirmed electronically or in writing by the Starcomm Public Safety Board within twenty-four (24) hours. If there is a condemnation of the Premises, then this Lease will terminate upon transfer of title to the condemning authority, without further liability to either party except for Lessor's obligation to reimburse Lessee for any prepaid fees. Lessee is entitled to pursue a separate condemnation award from the condemning authority. Lessor shall notify Lessee in writing within ten (10) days after it receives notice of any actual or contemplated condemnation proceedings.

11. Taxes. Lessor shall pay and be responsible for all taxes on the Premises, and Lessee shall pay and be responsible for all taxes due on Lessee's equipment and fixtures installed on the Premises.

12. Notices. Any notices required or permitted to be given hereunder shall be given in writing, and shall be deemed to have been given only upon receipt after mailing by certified or registered first class mail, postage prepaid, return receipt requested, or sending by reliable overnight courier and addressed to the parties as follows:

Lessor: Woodbury County, Iowa
Board of Supervisors
620 Douglas Street, Suite 104
Sioux City, Iowa 51101
Phone: 712-279-6525

Starcomm Public Safety Board
P.O. Box 447
Sioux City, Iowa 51102
ATTN: Glenn Sedivy
Phone: (712) 279-6959
Fax: (712 279-6157

Lessee: Customer Support Manager, State of Iowa,
Motorola Solutions
1303 E. Algonquin Road
Schaumburg, IL 60196
ATTN: Dave Gordon
Phone: 319-377-6686

Law Department
Motorola Solutions, Inc.
500 W. Monroe St., 43rd Floor
Chicago, IL 60661
ATTN: Rich Heller
Phone: (847) 576-1817

13. Hazardous Materials. At no time during the term hereof shall the Lessee store, place, leave or deposit at the Tower or the Premises any substance or material which, if known to be present on or at such property, would require cleanup, removal or some other remedial action under any federal, state or local law, including statutes, regulations, ordinances, codes, rules and other governmental restrictions and requirements relating to the discharge of air pollutants, water pollutants, processed waste water, solid wastes, or otherwise relating to environmental hazardous substances, including but not limited to the Federal Solid Waste Disposal Act, the Federal Clean Air Act, the Federal Clean Water Act, the Federal Resource Conservation and Recovery Act of 1976, the Federal Comprehensive Environmental Response, Compensation, and Liability Act of 1980, and all acts amendatory thereto, regulations of the Environmental Protection Agency, regulations of the Nuclear Regulatory Agency, and regulation of any State Department of Natural Resources or State Environmental Protection Agency now or at any time hereinafter in effect. The Lessee agrees to and does hereby indemnify and save the Lessor and owners harmless from any and all claims, demands, suits, actions, recoveries, judgments, costs and expenses relating in any way to Lessee's violation of this Section, and this indemnification obligation shall survive the expiration or termination of this Lease. Lessor acknowledge and agree that Lessee shall have no liability or responsibility whatsoever for any environmental violations or issues, at the tower or premises, existing prior to the date of Lessee's occupancy or otherwise not caused by Lessee. Lessor represents and warrants that it has no knowledge of any pre-existing environmental contamination on or about the Property or any substance, or chemical, or waste on the Property that is identified in any applicable state, federal, or local law or regulation as being hazardous, toxic, or dangerous. Lessor shall not introduce or allow any other tenant or licensee to introduce any such substance or chemical or waste onto, near or adjacent to the Property in violation of applicable law.

14. Miscellaneous Provisions.

a. Lessor warrant that (i) Lessor are the owners of the tower and owners and/or lessees of the tower site property; (ii) that Lessor have full right, power, and authority to execute this agreement and if necessary have obtained all necessary consents to sublease the Premises; (iii) that Lessor will not have unsupervised access to the Communication Equipment on the Premises; (iv) that the Property: (a) abuts a public right-of-way over which practical access is possible, or (b) is accessible over easements appurtenant to such

site; and (v) that to the best of Lessor's knowledge making of this Lease and the performance thereof will not violate any zoning or other laws, ordinances, restrictive covenants or the provision of any mortgage, lease or other agreements under which Lessor is bound and which restricts itself in any way with respect to the use or disposition of the Property. Lessor covenant that Lessee, in paying Rent and performing the covenants by Lessee herein made, shall and may peacefully and quietly have, hold, and enjoy the Leased Premises.

b. Lessee may, at its expense, make such improvements to the Property and Premises as it deems necessary for the operation of the Communication Equipment with prior written approval of the Lessor. Lessee shall obtain all necessary governmental and regulatory approvals required for Lessee's occupation and use of the Premises, including but not limited to zoning changes, and shall be responsible for the cost of obtaining such approvals. Lessor shall cooperate with Lessee in obtaining such approvals.

c. The provisions of this Lease shall bind and inure to the benefit of the parties hereto and their heirs, legal representatives, successors and assigns. References to Lessee herein shall include Lessee's transferees, successors, and assigns. References to Lessor herein shall include Lessor's transferees, successors, and assigns.

d. This Lease and the attached exhibits contain the entire agreement of the parties with respect to its subject matter and supersede any prior oral or written agreements.

e. This Lease may be amended in writing only, signed by all the parties in interest at the time of such amendment.

f. Lessee may assign this Lease to the State of Iowa or any of its departments, agencies or designees, or to any of Lessee's affiliates without the prior consent of Lessor. In addition, in the event Lessee separates one or more of its businesses (each a "Separated Business"), whether by way of a sale, establishment of a joint venture, spin-off or otherwise (each a "Separation Event"), Lessee may, without the prior written consent of Lessor and at no additional cost to Lessee, assign this Lease such that it will continue to benefit the Separated Business and its affiliates following the Separation Event. In the event of such a permitted transfer, Lessee shall provide written notice to Lessor of the Separation Event within thirty days of the completion of the Separation Event. This Lease shall continue as a direct lease between Lessor and any permitted transferee, and the original Lessee shall be released from any and all future liability hereunder. Lessee shall notify Lessor in writing of the name and address of any assignee. This Lease may be assigned by Lessor without the consent of Lessee provided that the assignee shall occupy and use the Premises subject to this Lease. Lessor shall notify Lessees in writing of the name and address of any assignee.

g. No waiver by either party of any provision herein shall be deemed a waiver of any other provision or of any prior or subsequent breach of any provision herein.

h. If any term or provision of this Lease is held to be invalid or unenforceable, such invalidity or unenforceability shall not be construed to affect any other provision of this Lease and the remaining provisions shall be enforceable in accordance with their terms.

i. This agreement shall be governed by and construed in accordance with the laws of the State of IOWA, without regard to its conflicts of law principles.

j. If Lessee does not vacate the Premises in accordance with the Lease terms upon valid termination of this Lease, such holding over shall be treated as creating a month to month tenancy. This holdover will not be approved for more than ninety (90) days. Rent during the holdover will be 150% of the current

rent. Further, if Lessee does not vacate the Premises as required, Lessee's Communications Equipment may be removed by Lessor at Lessee's expense. Any bill for removal of Lessee's equipment by Lessor shall be paid in full within thirty (30) days of mailing.

k. Lessee may make, with prior approval from Lessor, reasonable alterations, additions, or improvements to the Premises necessary for its antennas, communication shelter, power cables and telephone cables, so long as the structural integrity of the Premises is not affected. Lessee will bear the total cost of such alterations, additions or improvements, including regular maintenance, and the cost of removal and returning the Premises to the condition it was at the time of entering into the Lease (subject to the terms of paragraph 6(d) of this Lease).

l. Lessee shall be solely responsible for maintenance of its Communications Equipment, and shall arrange for maintenance under separate contract for all such maintenance services. Lessee shall not expect or ask Lessor to do any special site maintenance for Lessee's antennas or shelter, unless Lessee enters into a separate maintenance contract with Lessor, which contract will be separate from the terms of this Lease (i.e.: in the event that some minor snow plowing is requested for Lessee's access to their shelter, Lessee will separately contract for that service under a separate document).

m. Lessee will bear any and all costs associated with temporary relocation of Lessee's equipment, if required, during repairs or painting of Lessor' building. Lessor will give Lessee at least thirty (30) days advance notice of scheduled repairs or painting of Lessor' building or tower which may affect Lessee's operation, so that Lessee can pre-plan for providing high-quality communications to Lessee's customers during any temporary relocation required by Lessor' repair or painting activities. Lessor are not required to provide notice of routine repairs, such as replacement of tower lights, which do not affect Lessee's operation. Lessor will provide Lessee notice of emergency repairs with at least twelve (12) hours prior notice unless it is impossible or impractical to do so and then the Lessee shall be provided with as much prior notice as possible under the emergency circumstances.

n. To the extent permitted by law, Lessee shall indemnify and hold Lessor harmless against all expenses, liabilities and claims of every kind, including reasonable attorney fees, to the extent arising from the negligent or wrongful acts or omissions of Lessee or anyone for whose acts Lessee may be liable and made necessary by or on behalf of any person or entity arising out of:

1) A failure by Lessee to perform any of the terms and conditions of this Lease; or

2) Any injury or damage happening on or about the Leased Premises which is caused in whole or in part by Lessee's use of the Premises, any act or omission of Lessee or anyone for whose acts Lessee may be liable; or

3) Any injury or damage to any employee, agent, or customer of Lessee or Lessor on or about the Leased Premises which is caused in whole or in part by Lessee's use of the Premises, any act or omission of Lessee or anyone for whose acts Lessee may be liable; or

4) Failure of Lessee to comply with any applicable laws or governmental authority; or

5) Any action brought by a third party for damages as a result of an injury caused by Lessee or action or inaction of the Lessee.

15. Approval. The parties agree that this Lease shall not be binding on either party unless and until it is fully executed by both parties. If this Lease is signed by only one party, it shall merely constitute an offer to lease. This Lease is subject to the consent to sublease by City County Law Enforcement Center of

South Sioux/Dakota County , and subject to approval by Starcomm's Executive Board, and the Woodbury County Board of Supervisors.

16. Utilities. Lessee shall be entitled to install any utilities and services required for the Communication Equipment. Lessor shall provide Lessee with such reasonable assistance as is necessary to enable Lessee to arrange for such utilities and services, including signing any easement or other instrument reasonably required by the utility company. Lessor represents that utilities required for Lessee's use of the Premises are available, and Lessee shall not be required to pay any share of such utilities and services as are used for the Communication Equipment. All electricity and any other utility services used by Lessee to operate the Communications Equipment will be paid by Lessor.

17. Compliance with Laws. The Parties shall comply with all applicable local, state, and federal government laws, codes and regulations, including without limitation FAA, FCC, NEPA, occupational health and safety, environmental, and electromagnetic (EME) requirements, and applicable requirements of the Americans with Disabilities Act.

18. Short Form Lease. The parties will, at any time upon the request of either one, promptly execute duplicate originals of an instrument, in recordable form, which will constitute a short form of this Lease setting forth a description of the premises, the term of this Lease and any portions hereof, excepting the rent and cost provisions.

19. Contingency for Due Diligence. Lessee shall have until the Commencement Date to conduct a due diligence examination of all factors affecting the Property and to satisfy itself in its sole discretion that the Property is suitable for Lessee's intended use. Lessor shall furnish Lessee with the legal description, coordinates, address or location and real estate tax numbers, if available, for the Property as well as copies of any title policies or searches, surveys or site drawings (including those dealing with utility or access easements), any Prime Lease or Ground Lease, including all amendments, current users of the Property and all broadcast frequencies and any studies dealing with structural, RF, engineering or environmental, NEPA or EME matters, as well as other documentation reasonably requested by Lessee. Lessor shall also allow Lessee's personnel or its contractors to visit and investigate the Property and perform structural, engineering and environmental evaluations and tests. Lessor shall use its best efforts to obtain from the holder of any mortgage or deed of trust ("Mortgagee") a non-disturbance agreement in a form provided by or otherwise acceptable to Lessee. In the event Lessee is not satisfied with the Property or Lessee does not receive non-disturbance agreements from all Mortgagees Lessee shall have the right to terminate this Lease by so notifying Lessor in writing on or before the Commencement Date, in which event all funds paid by Lessee shall be returned to Lessee.

23. Brokers. Lessor and Lessee each represents to the other that he, she, or it did not deal with any broker or other person who may be entitled to a commission as a result of the transaction contemplated by this Lease, and Lessor and Lessee hereby agree to indemnify and hold the other harmless from a breach of the foregoing representation.

24. Counterparts: Facsimile Signatures. This Lease may be executed in one or more counterparts, each of which shall be deemed an original and all of which together shall constitute one and the same instrument. In addition, a true and correct facsimile copy or computer image of this Agreement shall be treated as and shall have the same effect as an original signed copy of this document.

25. Waiver of Lessor's Lien Rights. Lessor agrees that it does not have any lien rights in Lessee's personal property or the Communications Equipment.

26. Mutual Waiver of Consequential Damages and Limitation of Liability. NOTWTHSTANDING ANYTHING TO THE CONTRARY IN THIS LEASE, ALTHOUGH THE PARTIES ACKNOWLEDGE THE POSSIBILITY OF SUCH LOSSES OR DAMAGES, EACH PARTY AGREES THAT THE OTHER PARTY WILL NOT BE LIABLE FOR ANY COMMERCIAL LOSS; INCONVENIENCE; LOSS OF USE, TIME, DATA, GOOD WILL, REVENUES, PROFITS OR SAVINGS; OR OTHER SPECIAL, INCIDENTAL, INDIRECT, OR CONSEQUENTIAL DAMAGES IN ANY WAY RELATED TO OR ARISING FROM THIS LEASE, AND EXCEPT FOR PERSONAL INJURY, DEATH, OR DAMAGE TO TANGIBLE PROPERTY, EACH PARTY'S TOTAL LIABILITY, WHETHER FOR BREACH OF CONTRACT, WARRANTY, NEGLIGENCE, STRICT LIABILITY IN TORT, INDEMNIFICATION, OR OTHERWISE, WILL BE LIMITED TO THE DIRECT DAMAGES RECOVERABLE UNDER LAW, BUT NOT TO EXCEED $3,000,000.00. This limitation of liability provision survives the expiration or termination of this Lease and applies to the fullest extent permitted by law, notwithstanding any contrary provision.

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IN WITNESS WHEREOF the parties have executed this Agreement as of the date first above written.

WOODBURY COUNTY, IOWA

By _____
Matthew Ung
Chairperson

Certification of County Auditor:

I, Patrick Gill, certify that I am the County Auditor of the Woodbury County, Iowa and that Matthew Ung, who executed this Agreement for and on behalf of the County, was duly authorized and empowered to do so as of _____ _____. 2017

_____
Patrick Gill
Woodbury County Auditor

STARCOMM, WOODBURY, IOWA

By _____
Douglas Young
Chairperson

Certification of Starcomm:

I, Carrie Anfinson-Haden, certify that I am the Administrative Secretary for Starcomm and that Chairperson Douglas Young, who executed this Lease for and on behalf of Starcomm, was duly authorized and empowered to do so as of _____, 2017.

_____
Carie Anfinson-Haden,
Administrative Secretary for Starcomm

MOTOROLA SOLUTIONS, INC.

By: _____

_____
[Print Name]

Title: _____

Date: _____

STATE OF _____)
: ss
COUNTY OF _____)

On this _____ day of _____ , 20 _____ before me, the undersigned a Notary Public in and for said County and State, personally appeared _____ and _____ to me personally known, who being by me duly sworn, did state that they are the _____ and _____ respectively, of said corporation executing the within and foregoing instrument, that _____ (no seal has been procured by the said) _____ (the seal affixed thereto is the seal of said) corporation; that said instrument was signed (and sealed) on behalf of said corporation by authority of its Board of Directors; and that the said _____ and _____ as such officers acknowledged the execution of said instrument to be the voluntary act and deed of said corporation by it and by them voluntarily executed.

(SEAL)

_____
NOTARY PUBLIC in and for said COUNTY and STATE

EXHIBIT A

DESCRIPTION OF PROPERTY AND EQUIPMENT TO BE INSTALLED

This exhibit provides the address, location, and general description of the property subject to the Lease.

Legal Description:

The site is known as “Homer” consists of a guyed tower, communications shelter, and backup generator. No tower or site modifications are planned for this site. All new equipment is to be installed inside the equipment shelter.

Address or Location:

Homer (Nebraska)
2100 Platte RD Homer, NE

Coordinates:

42-19-58N / 96-30-27W

Equipment to be installed inside the shelter:

- 3 Base Radios to existing Expansion Radio Rack
- Additional DC rectifiers to existing Eltek chassis to increase output capacity
- Additional battery strings to increase runtime

WOODBURY COUNTY BOARD OF SUPERVISORS AGENDA ITEM(S) REQUEST FORM #12b

Date: 02-21-17 Weekly Agenda Date: 03-07-17

ELECTED OFFICIAL / DEPARTMENT HEAD / CITIZEN: Glenn Sedivy, Communications Director

WORDING FOR AGENDA ITEM:

Approval of a Motion to a Tower Lease with Motorola Solutions, Inc. for an initial term of thirteen (13) years between Woodbury County, Starcomm and Motorola Solutions Inc.

ACTION REQUIRED:

Approve Ordinance ☐ Approve Resolution ☐ Approve Motion ☑

Public Hearing ☐ Other: Informational ☐ Attachments ☐

EXECUTIVE SUMMARY:

The Starcomm Executive Board recommends to the County Supervisors to approve a tower lease with Motorola Solutions Inc. for an initial term of 13 years to use a Starcomm radio tower.

BACKGROUND:

This is a partnership lease agreement with Motorola Solutions Inc. and Starcomm to operate on the State of Iowa's new Statewide radio system

FINANCIAL IMPACT:

None

IF THERE IS A CONTRACT INVOLVED IN THE AGENDA ITEM, HAS THE CONTRACT BEEN SUBMITTED AT LEAST ONE WEEK PRIOR AND ANSWERED WITH A REVIEW BY THE COUNTY ATTORNEY'S OFFICE?

Yes ☐ **No** ☐

RECOMMENDATION:

Approve this Tower Lease

ACTION REQUIRED / PROPOSED MOTION:

Approve a Motion to enter into an initial term of 13 years to lease tower space on the Starcomm West Tower at 2028 Jasper Ave, Moville Iowa to Motorola Solutions, Inc.

Approved by Board of Supervisors April 5, 2016.

THIS LEASE IS THE PROPERTY OF:
Woodbury County, Iowa
620 Douglas Street, Suite 104
Sioux City, Iowa 51101

AND THE PROPERTY OF:
Customer Support Manager, State of Iowa,
Motorola Solutions
1303 E. Algonquin Road
Schaumburg, IL 60196
ATTN: Dave Gordon
Phone: 319-377-6686

and

Law Department
Motorola Solutions, Inc.
500 W, Monroe St. 43rd Floor
Chicago, IL 60661
ATTN: Rich Heller
Phone: (847) 576-1817
Fax: (312) 559-5694

C/O Starcomm Public Safety Board
P.O. Box 447
Sioux City, Iowa 51102
ATTN: Glenn Sedivy
Phone: (712) 279-6959
Fax: (712) 279-6157

SITE LEASE AGREEMENT

THIS SITE LEASE AGREEMENT (hereinafter called "Lease"), is made and entered into as of this _____day of _____, 2017, by and between Woodbury County, Iowa, whose address is 620 Douglas Street, Suite 104, Sioux City, Iowa 51101 under the direction of the Starcomm Public Safety Board, whose address is P.O. Box 447 Sioux City, Iowa 51102 hereinafter called "Lessor", and Motorola Solutions, Inc. having an address of 500 W. Monroe St., Chicago, IL 60661, hereinafter called "Lessee".

In consideration of the covenants and agreements hereinafter set forth, the parties hereto agree as follows:

1. Leased Premises. Lessor is the owner of that certain real property described below (the "Property"). Lessor hereby Lease to the Lessee, for the period, at the rental, and upon the terms and conditions hereinafter set forth, certain portions of the Property, tower, and a portion of the interior space on the ground (the "Premises") located on the Property within Woodbury County, Iowa.

2. Communications Equipment Upgrade and Installation. A detailed list of Communications Equipment to be installed and upgraded by the Lessee at the Property and a detailed Site Plan is hereby attached as **Exhibit A** and incorporated herein as if fully set forth in this Agreement. A Structural Analysis of the communications tower is hereby attached as **Exhibit B** and incorporated herein as if fully set forth in this Agreement.

"Communications Equipment" shall be defined as: a communications facility including (without limitation) antennae and radios (including microwave antennae and radios); equipment cabinets; backup

power sources (including batteries, generators and fuel storage tanks); and other associated equipment, fixtures, wiring, and cabling.

Lessee shall cause the Communications Equipment to be fully installed and upgraded on the Property by June 16, 2017. All costs associated with the installation of Communications Equipment and upgrading of the existing system shall be borne by the Lessee. The Communications Equipment shall service the Public Safety communication needs of the area.

The location of the above tower and equipment is:

Site Address: 4 miles East, 4.5 miles South of Moville, Iowa, @ 2028 Jasper Avenue

Latitude: 42-24-37.3N Longitude: 095-59-58.3

3. Access. Lessor also grant to Lessee, the State of Iowa, and their respective employees, contractors, agents, representatives, and assigns, access to the Property and Premises described in paragraph one (1) above, seven days a week, 24 hours a day, throughout the term of this Lease, provided that, prior to Lessee or Lessee's contractors climbing the tower for antenna access, Lessee will give Lessor no less than 12 hours prior notice. To allow this access to climb the tower or Fenced Compound, Lessor will give Lessee a key to the lock on the Compound. Each time the Lessee's employee(s) access the location all the Lessee's employees will notify the Facility Manager, in writing, in person or if necessary over the phone by calling (712) 279-6960. These employees will be subject to criminal background checks, except in emergency situations and when otherwise agreed upon by Lessor in writing. Security access to the sites compound will be provided by the Starcomm Director or Facility Manager. Each employee of Lessee who climbs the tower will have in their possession a card showing that they have completed the Qualified Climber/Rescue course offered through Comtrain or similar program approved by Lessor. Each employee of Lessee will follow all OSHA regulations while climbing any portion of the tower including wearing all required safety harnesses and will use the safety climbing cable while on the tower. There will never be fewer than 2 certified climbers on the site during any type of climbing on the tower.

4. Initial Term and Commencement Date of Lease . The "Initial Term" of this Lease shall be for a period of Thirteen (13) years. The "Commencement Date" for the Initial Term of this Lease begins upon the start of installation of the Communications Equipment as described in Paragraph 1, in and about the Premises and expiring on the date which is thirteen (13) years thereafter. Lessee shall provide written notification to the Parties of the date when installation shall commence. In any event the commencement date shall be no later than April 1, 2017.

5. Renewal Terms. Lessor hereby grant to Lessee the right, privilege and option to extend this Lease for four (4) additional "Renewal Terms" of Five (5) years, each with the consent and written approval from Lessor, from the end of the Initial Term, under the same terms, covenants and conditions as herein contained, provided that Lessee is not in default of any of the terms, covenants or conditions of this Lease at the conclusion of the Initial Term or any prior Renewal Term, respectively. This Lease shall automatically terminate unless Lessee gives written notice of the desire to extend or renew the Lease at least one hundred eighty (180) days prior to the end of the applicable term and obtains Lessor' consent to each requested extension.

6. Termination.

a. Both Lessor and Lessee shall have the right to terminate this Lease for cause, in the event the other party defaults on any material provision of this Lease**,** and in the event that such default is not cured within thirty (30) days after written notice thereof is provided to the other party. Said curative period

shall be extended another thirty (30) days provided defaulting party has shown a good faith effort to cure default. Notwithstanding the foregoing, the curative period for any monetary default is thirty (30) days from receipt of written notice and the curative period for lapse in insurance coverage is ten (10) days from the receipt of written notice

b. The parties agree that in the event that federal or state law requires the installation of back up power sources or supplies that the terms of this Lease will require an amendment to be negotiated between the parties. No additional equipment shall be placed upon the Premises by Lessee without the written consent of Lessor. Notwithstanding the foregoing, Lessee may install upgraded Communications Equipment to replace existing Communications Equipment without the written consent of Lessor. However, a detailed list of replaced items must be promptly provided to the Lessor.

c. This Lease may be terminated without further liability as set forth below:

1) by either party in the event the other party defaults on any material provision of this Lease**,** and in the event that such default is not cured within thirty (30) days after written notice thereof is provided to the other party. Said curative period shall be extended another thirty (30) days provided defaulting party has shown a good faith effort to cure default. Notwithstanding the foregoing, the curative period for any monetary default is thirty (30) days from receipt of written notice and the curative period for lapse in insurance coverage is ten (10) days from the receipt of written notice; or

2) by Lessee if it does not obtain or maintain any license, permit or other approval necessary for the construction and operation of Lessee's facilities; or

3) by Lessee if Lessee is unable to occupy and utilize the tower site due to an action of the FCC, including without limitation, a take-back of channels, a change in frequencies, or a change in licensed coverage area; or

4) by Lessee if Lessee determines that the tower site is not appropriate for its operations for economic or technological reasons, including, without limitation, signal interference; or

5) by Lessor if the Lessor determine the tower site is no longer suitable to be used by Lessor for their operation and the Lessor choose to remove the building; or

6) by Lessor after the expiration of the initial term of this Lease upon providing Lessee with written notice. Such notice, if given by Lessor, must be given not less than three hundred sixty-five (365) days prior to the date therein specified (this time is given for Lessee to find a new site, get zoning approval, construct a new site and move Lessee's shelter and antennas); or

7.) by Lessor at any time upon occurrence of a Separation Event, as that term is defined in 14(f), by giving at least thirty (30) days' notice in writing to the Lessee.

8) by the parties mutual agreement.

d. In the event of termination or expiration of this Lease, Lessee shall have a reasonable period of time (not exceeding ninety (90) days from the effective date of termination unless a longer time is allowed elsewhere in this Lease) to remove all Communications Equipment from the Premises, however all improvements to the tower and/or ancillary structures shall be left in place and in good repair by the Lessee. Upon expiration of this Lease, Lessee shall restore the Premises to reasonably good condition and repair, subject to ordinary wear and tear on the Premises, which is specifically excepted. Failure of Lessee to remove its Communications Equipment at the expiration or termination of this Lease may result

in Lessor removing the equipment and payment of all charges occasioned by such removal will be the responsibility of the Lessee.

7. Initial Term Rent .

a. Lessee shall pay Woodbury County, Iowa, administrator of funds of Starcomm Public Safety Board Ten Dollars ($10) and other good and valuable consideration as full consideration for the initial Term and all Renewal Terms of this Lease. Unless otherwise specified in this Lease, each party shall bear its own costs.

8. Use and Non-Interference of Premises. Lessee shall have the right to use the Property and Premises for the purpose of installing, removing, replacing, modifying, repairing, maintaining, and operating a communications facility including (without limitation) antennae and radios (including microwave antennae and radios); equipment cabinets; backup power sources (including batteries, generators and fuel storage tanks); and other associated equipment, fixtures, wiring, and cabling (collectively the "Communications Equipment"). The parties acknowledge that (a) the Communications Equipment will be owned by Lessee, the State of Iowa, or their respective assignee and (b) the Communications Equipment will be used for emergency services, public safety and other governmental purposes, including the Iowa State Patrol and other Iowa state agencies, and any federal, state, county, municipality or other governmental body, including any department or agency thereof. Lessee shall not do or permit any activities upon the Premises, which would cause interference to Lessor or with Lessor's principle use of the Premises as a Lattice Tower in Woodbury County, Iowa. The Lessee will be allowed to install its Communications Equipment inside and outside the communications tower house. This is not an exclusive lease of the premises. Lessor retains the right to lease additional space to other Tenants provided that the additional Tenants' equipment does not interfere with the activities and transmission signals of the Lessee. Additionally, Lessor will continue to use the premises for their own business or public safety purposes. Lessor affirmatively covenants that except for acts of God, neither Lessor nor its employees, agents, representatives, invitees, other tenants or licensees shall cause or allow others to cause interruption of electrical power or interruption of telephone service to the Communication Equipment.

9. Insurance and Indemnification.

Unless self-insured, at all times during the term of this Lease, Lessee shall at its expense carry and maintain for the mutual benefit of the Lessor:

a. Commercial General liability insurance against the claims for personal injury, death or property damage occurring in or about the Leased Premises or resulting from the installation, operation or maintenance of the Lessee's Communications Equipment on the Leased Premises, such insurance to be in the amount of $1,000,000.00 for personal injuries and deaths resulting from any one accident and for property damage in any one accident, and an aggregate coverage in the amount of $3,000,000.00 with Lessor included as additional insureds.

b. A Standard Workmen's Compensation and Employer's Liability Insurance Policy in the amount equal to the limit of liability and in a form prescribed by the laws of the state in which the Leased Premises is located.

c. Any contract workers contracted by Lessee shall also carry similar insurance as set forth in a. and b. above.

10. Damage or Destruction. If the Premises are damaged, destroyed by fire, winds, flood, or other natural or manmade cause, Lessor shall have the option to repair or replace the Premises at their sole

expense, or to terminate this Lease effective on the date of such damage or destruction. Notwithstanding the foregoing, for purposes of implementing the ninety (90) day period specified in 6(d), the ninety (90) day period shall commence upon the later of (i) the Lessor having notified the Lessee of a decision not to repair or replace the Premises or (ii) sixty (60) days having passed without Lessor having notified Lessee of a decision to repair or replace the Premises (unless the Lessor have begun repair or replacement activities). In the event Lessor elect to terminate this Lease, Lessee shall have no further obligations hereunder. Lessor shall have up to sixty (60) days to decide on whether to repair or replace the Premises. Failure by Lessor to notify Lessee within sixty (60) days of Lessor' decision to repair or replace the Premises shall be deemed an election by Lessor to terminate this Lease, unless the Lessor have begun repair or replacement activities. If Lessor elect to repair or replace the Premises, Lessee shall have the option of either abating the rent due until such repair or replacement is completed and the Premises are restored to a condition that the Lessee can resume full operations at the Premises; or until Lessee begins operating a mobile telecommunication base station on the Premises. Lessee may immediately erect on an unused portion of the Property a temporary communications facility. In the event such repairs or restoration are not commenced within thirty (30) days or completed within ninety (90) days, Lessee may elect to terminate this Lease by so notifying Lessor in writing, The option to operate a mobile telecommunications base station on the Premises is subject to the Lessee obtaining all required State and local permits and obtaining verbal consent of the Starcomm Public Safety Board, said consent shall not be unreasonably withheld. Said verbal consent will be confirmed electronically or in writing by the Starcomm Public Safety Board within twenty-four (24) hours. If there is a condemnation of the Premises, then this Lease will terminate upon transfer of title to the condemning authority, without further liability to either party except for Lessor's obligation to reimburse Lessee for any prepaid fees. Lessee is entitled to pursue a separate condemnation award from the condemning authority. Lessor shall notify Lessee in writing within ten (10) days after it receives notice of any actual or contemplated condemnation proceedings.

11. Taxes. Lessor shall pay and be responsible for all taxes on the Premises, and Lessee shall pay and be responsible for all taxes due on Lessee's equipment and fixtures installed on the Premises.

12. Notices. Any notices required or permitted to be given hereunder shall be given in writing, and shall be deemed to have been given only upon receipt after mailing by certified or registered first class mail, postage prepaid, return receipt requested, or sending by reliable overnight courier and addressed to the parties as follows:

Lessor: Woodbury County, Iowa
Board of Supervisors
620 Douglas Street, Suite 104
Sioux City, Iowa 51101
Phone: 712-279-6525

Starcomm Public Safety Board
P.O. Box 447
Sioux City, Iowa 51102
ATTN: Glenn Sedivy
Phone: (712) 279-6959
Fax: (712 279-6157

Lessee: Customer Support Manager, State of Iowa,
Motorola Solutions
1303 E. Algonquin Road
Schaumburg, IL 60196
ATTN: Dave Gordon
Phone: 319-377-6686

Law Department
Motorola Solutions, Inc.
500 W. Monroe St., 43rd Floor
Chicago, IL 60661
ATTN: Rich Heller
Phone: (847) 576-1817

13. Hazardous Materials. At no time during the term hereof shall the Lessee store, place, leave or deposit at the Tower or the Premises any substance or material which, if known to be present on or at such property, would require cleanup, removal or some other remedial action under any federal, state or local law, including statutes, regulations, ordinances, codes, rules and other governmental restrictions and requirements relating to the discharge of air pollutants, water pollutants, processed waste water, solid wastes, or otherwise relating to environmental hazardous substances, including but not limited to the Federal Solid Waste Disposal Act, the Federal Clean Air Act, the Federal Clean Water Act, the Federal Resource Conservation and Recovery Act of 1976, the Federal Comprehensive Environmental Response, Compensation, and Liability Act of 1980, and all acts amendatory thereto, regulations of the Environmental Protection Agency, regulations of the Nuclear Regulatory Agency, and regulation of any State Department of Natural Resources or State Environmental Protection Agency now or at any time hereinafter in effect. The Lessee agrees to and does hereby indemnify and save the Lessor and owners harmless from any and all claims, demands, suits, actions, recoveries, judgments, costs and expenses relating in any way to Lessee's violation of this Section, and this indemnification obligation shall survive the expiration or termination of this Lease. Lessor acknowledge and agree that Lessee shall have no liability or responsibility whatsoever for any environmental violations or issues, at the tower or premises, existing prior to the date of Lessee's occupancy or otherwise not caused by Lessee. Lessor represents and warrants that it has no knowledge of any pre-existing environmental contamination on or about the Property or any substance, or chemical, or waste on the Property that is identified in any applicable state, federal, or local law or regulation as being hazardous, toxic, or dangerous. Lessor shall not introduce or allow any other tenant or licensee to introduce any such substance or chemical or waste onto, near or adjacent to the Property in violation of applicable law.

14. Miscellaneous Provisions.

a. Lessor warrant that (i) Lessor are the owners of the tower and owners and/or lessees of the tower site property; (ii) that Lessor have full right, power, and authority to execute this agreement and if necessary have obtained all necessary consents to sublease the Premises; (iii) that Lessor will not have unsupervised access to the Communication Equipment on the Premises; (iv) that the Property: (a) abuts a public right-of-way over which practical access is possible, or (b) is accessible over easements appurtenant to such site; and (v) that to the best of Lessor's knowledge making of this Lease and the performance thereof will not violate any zoning or other laws, ordinances, restrictive covenants or the provision of any mortgage, lease or other agreements under which Lessor is bound and which restricts itself in any way with respect to the use or disposition of the Property. Lessor covenant that Lessee, in paying Rent and performing the

covenants by Lessee herein made, shall and may peacefully and quietly have, hold, and enjoy the Leased Premises.

b. Lessee may, at its expense, make such improvements to the Property and Premises as it deems necessary for the operation of the Communication Equipment with prior written approval of the Lessor. Lessee shall obtain all necessary governmental and regulatory approvals required for Lessee's occupation and use of the Premises, including but not limited to zoning changes, and shall be responsible for the cost of obtaining such approvals. Lessor shall cooperate with Lessee in obtaining such approvals.

c. The provisions of this Lease shall bind and inure to the benefit of the parties hereto and their heirs, legal representatives, successors and assigns. References to Lessee herein shall include Lessee's transferees, successors, and assigns. References to Lessor herein shall include Lessor's transferees, successors, and assigns.

d. This Lease and the attached exhibits contain the entire agreement of the parties with respect to its subject matter and supersede any prior oral or written agreements.

e. This Lease may be amended in writing only, signed by all the parties in interest at the time of such amendment.

f. Lessee may assign this Lease to the State of Iowa or any of its departments, agencies or designees, or to any of Lessee's affiliates without the prior consent of Lessor. In addition, in the event Lessee separates one or more of its businesses (each a "Separated Business"), whether by way of a sale, establishment of a joint venture, spin-off or otherwise (each a "Separation Event"), Lessee may, without the prior written consent of Lessor and at no additional cost to Lessee, assign this Lease such that it will continue to benefit the Separated Business and its affiliates following the Separation Event. In the event of such a permitted transfer, Lessee shall provide written notice to Lessor of the Separation Event within thirty days of the completion of the Separation Event. This Lease shall continue as a direct lease between Lessor and any permitted transferee, and the original Lessee shall be released from any and all future liability hereunder. Lessee shall notify Lessor in writing of the name and address of any assignee. This Lease may be assigned by Lessor without the consent of Lessee provided that the assignee shall occupy and use the Premises subject to this Lease. Lessor shall notify Lessees in writing of the name and address of any assignee.

g. No waiver by either party of any provision herein shall be deemed a waiver of any other provision or of any prior or subsequent breach of any provision herein.

h. If any term or provision of this Lease is held to be invalid or unenforceable, such invalidity or unenforceability shall not be construed to affect any other provision of this Lease and the remaining provisions shall be enforceable in accordance with their terms.

i. This agreement shall be governed by and construed in accordance with the laws of the State of IOWA, without regard to its conflicts of law principles.

j. If Lessee does not vacate the Premises in accordance with the Lease terms upon valid termination of this Lease, such holding over shall be treated as creating a month to month tenancy. This holdover will not be approved for more than ninety (90) days. Rent during the holdover will be 150% of the current rent. Further, if Lessee does not vacate the Premises as required, Lessee's Communications Equipment may be removed by Lessor at Lessee's expense. Any bill for removal of Lessee's equipment by Lessor shall be paid in full within thirty (30) days of mailing.

k. Lessee may make, with prior approval from Lessor, reasonable alterations, additions, or improvements to the Premises necessary for its antennas, communication shelter, power cables and telephone cables, so long as the structural integrity of the Premises is not affected. Lessee will bear the total cost of such alterations, additions or improvements, including regular maintenance, and the cost of removal and returning the Premises to the condition it was at the time of entering into the Lease (subject to the terms of paragraph 6(d) of this Lease).

l. Lessee shall be solely responsible for maintenance of its Communications Equipment, and shall arrange for maintenance under separate contract for all such maintenance services. Lessee shall not expect or ask Lessor to do any special site maintenance for Lessee's antennas or shelter, unless Lessee enters into a separate maintenance contract with Lessor, which contract will be separate from the terms of this Lease (i.e.: in the event that some minor snow plowing is requested for Lessee's access to their shelter, Lessee will separately contract for that service under a separate document).

m. Lessee will bear any and all costs associated with temporary relocation of Lessee's equipment, if required, during repairs or painting of Lessor' building. Lessor will give Lessee at least thirty (30) days advance notice of scheduled repairs or painting of Lessor' building or tower which may affect Lessee's operation, so that Lessee can pre-plan for providing high-quality communications to Lessee's customers during any temporary relocation required by Lessor' repair or painting activities. Lessor are not required to provide notice of routine repairs, such as replacement of tower lights, which do not affect Lessee's operation. Lessor will provide Lessee notice of emergency repairs with at least twelve (12) hours prior notice unless it is impossible or impractical to do so and then the Lessee shall be provided with as much prior notice as possible under the emergency circumstances.

n. To the extent permitted by law, Lessee shall indemnify and hold Lessor harmless against all expenses, liabilities and claims of every kind, including reasonable attorney fees, to the extent arising from the negligent or wrongful acts or omissions of Lessee or anyone for whose acts Lessee may be liable and made necessary by or on behalf of any person or entity arising out of:

1) A failure by Lessee to perform any of the terms and conditions of this Lease; or

2) Any injury or damage happening on or about the Leased Premises which is caused in whole or in part by Lessee's use of the Premises, any act or omission of Lessee or anyone for whose acts Lessee may be liable; or

3) Any injury or damage to any employee, agent, or customer of Lessee or Lessor on or about the Leased Premises which is caused in whole or in part by Lessee's use of the Premises, any act or omission of Lessee or anyone for whose acts Lessee may be liable; or

4) Failure of Lessee to comply with any applicable laws or governmental authority; or

5) Any action brought by a third party for damages as a result of an injury caused by Lessee or action or inaction of the Lessee.

15. Approval. The parties agree that this Lease shall not be binding on either party unless and until it is fully executed by both parties. If this Lease is signed by only one party, it shall merely constitute an offer to lease.

16. Utilities. Lessee shall be entitled to install any utilities and services required for the Communication Equipment. Lessor shall provide Lessee with such reasonable assistance as is necessary to enable Lessee to arrange for such utilities and services, including signing any easement or other instrument reasonably

required by the utility company. Lessor represents that utilities required for Lessee's use of the Premises are available, and Lessee shall not be required to pay any share of such utilities and services as are used for the Communication Equipment. All electricity and any other utility services used by Lessee to operate the Communications Equipment will be paid by Lessor.

17. Compliance with Laws. The Parties shall comply with all applicable local, state, and federal government laws, codes and regulations, including without limitation FAA, FCC, NEPA, occupational health and safety, environmental, and electromagnetic (EME) requirements, and applicable requirements of the Americans with Disabilities Act.

18. Short Form Lease. The parties will, at any time upon the request of either one, promptly execute duplicate originals of an instrument, in recordable form, which will constitute a short form of this Lease setting forth a description of the premises, the term of this Lease and any portions hereof, excepting the rent and cost provisions.

19. Contingency for Due Diligence. Lessee shall have until the Commencement Date to conduct a due diligence examination of all factors affecting the Property and to satisfy itself in its sole discretion that the Property is suitable for Lessee's intended use. Lessor shall furnish Lessee with the legal description, coordinates, address or location and real estate tax numbers, if available, for the Property as well as copies of any title policies or searches, surveys or site drawings (including those dealing with utility or access easements), any Prime Lease or Ground Lease, including all amendments, current users of the Property and all broadcast frequencies and any studies dealing with structural, RF, engineering or environmental, NEPA or EME matters, as well as other documentation reasonably requested by Lessee. Lessor shall also allow Lessee's personnel or its contractors to visit and investigate the Property and perform structural, engineering and environmental evaluations and tests. Lessor shall use its best efforts to obtain from the holder of any mortgage or deed of trust ("Mortgagee") a non-disturbance agreement in a form provided by or otherwise acceptable to Lessee. In the event Lessee is not satisfied with the Property or Lessee does not receive non-disturbance agreements from all Mortgagees Lessee shall have the right to terminate this Lease by so notifying Lessor in writing on or before the Commencement Date, in which event all funds paid by Lessee shall be returned to Lessee.

23. Brokers. Lessor and Lessee each represents to the other that he, she, or it did not deal with any broker or other person who may be entitled to a commission as a result of the transaction contemplated by this Lease, and Lessor and Lessee hereby agree to indemnify and hold the other harmless from a breach of the foregoing representation.

24. Counterparts: Facsimile Signatures. This Lease may be executed in one or more counterparts, each of which shall be deemed an original and all of which together shall constitute one and the same instrument. In addition, a true and correct facsimile copy or computer image of this Agreement shall be treated as and shall have the same effect as an original signed copy of this document.

25. Waiver of Lessor's Lien Rights. Lessor agrees that it does not have any lien rights in Lessee's personal property or the Communications Equipment.

26. Mutual Waiver of Consequential Damages and Limitation of Liability. NOTWTHSTANDING ANYTHING TO THE CONTRARY IN THIS LEASE, ALTHOUGH THE PARTIES ACKNOWLEDGE THE POSSIBILITY OF SUCH LOSSES OR DAMAGES, EACH PARTY AGREES THAT THE OTHER PARTY WILL NOT BE LIABLE FOR ANY COMMERCIAL LOSS; INCONVENIENCE; LOSS OF USE, TIME, DATA, GOOD WILL, REVENUES, PROFITS OR SAVINGS; OR OTHER SPECIAL, INCIDENTAL, INDIRECT, OR CONSEQUENTIAL DAMAGES IN ANY WAY RELATED TO OR ARISING FROM THIS LEASE, AND EXCEPT FOR PERSONAL

INJURY, DEATH, OR DAMAGE TO TANGIBLE PROPERTY, EACH PARTY'S TOTAL LIABILITY, WHETHER FOR BREACH OF CONTRACT, WARRANTY, NEGLIGENCE, STRICT LIABILITY IN TORT, INDEMNIFICATION, OR OTHERWISE, WILL BE LIMITED TO THE DIRECT DAMAGES RECOVERABLE UNDER LAW, BUT NOT TO EXCEED $3,000,000.00. This limitation of liability provision survives the expiration or termination of this Lease and applies to the fullest extent permitted by law, notwithstanding any contrary provision.

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IN WITNESS WHEREOF the parties have executed this Agreement as of the date first above written.

WOODBURY COUNTY, IOWA

By _____
Matthew Ung
Chairperson

Certification of County Auditor:

I, Patrick Gill, certify that I am the County Auditor of the Woodbury County, Iowa and that Matthew Ung, who executed this Agreement for and on behalf of the County, was duly authorized and empowered to do so as of _____ _____. 2017

_____
Patrick Gill
Woodbury County Auditor

STARCOMM, WOODBURY, IOWA

By _____
Douglas Young
Chairperson

Certification of Starcomm:

I, Carrie Anfinson-Haden, certify that I am the Administrative Secretary for Starcomm and that Chairperson Douglas Young, who executed this Lease for and on behalf of Starcomm, was duly authorized and empowered to do so as of _____, 2017.

_____
Carie Anfinson-Haden,
Administrative Secretary for Starcomm

MOTOROLA SOLUTIONS, INC.

By: _____

_____
[Print Name]

Title: _____

Date: _____

STATE OF _____)
: ss
COUNTY OF _____)

On this _____ day of _____ , 20 _____ before me, the undersigned a Notary Public in and for said County and State, personally appeared _____ and _____ to me personally known, who being by me duly sworn, did state that they are the _____ and _____ respectively, of said corporation executing the within and foregoing instrument, that _____ (no seal has been procured by the said) _____ (the seal affixed thereto is the seal of said) corporation; that said instrument was signed (and sealed) on behalf of said corporation by authority of its Board of Directors; and that the said _____ and _____ as such officers acknowledged the execution of said instrument to be the voluntary act and deed of said corporation by it and by them voluntarily executed.

(SEAL)

_____
NOTARY PUBLIC in and for said COUNTY and STATE

EXHIBIT A

DESCRIPTION OF PROPERTY AND EQUIPMENT TO BE INSTALLED

This exhibit provides the address, location, and general description of the property subject to the Lease.

Legal Description:

The site is known as “AT&T” consists of a self supporting tower, communications shelter, and backup generator. Additional antennas are planned for this tower resulting in tower strengthening work as documented in the loading analysis report (ISICS-09AT&T Tower SA). With the exception of the antennas to be mounted on the tower, all new equipment is to be installed inside the equipment shelter.

Address or Location:

AT&T Tower Site
2028 Jasper Ave
4.5 mi SE of Moville, IA

Coordinates:

42-24-37N / 95-59-58.3W

Equipment to be installed on the tower:

- 21ft Omni directional antenna (SC412-HF2LDF) @ 350 feet
- 6ft parabolic dish (SB6-W60AC) @ 140 feet
- 4ft parabolic dish (SB4-W60AD) @ 115 feet
- 6ft parabolic dish (SB6-W60AC) @ 115 feet

Equipment to be installed inside the shelter:

- Replace site LAN switches with 48 ports to add Geo-Prime Site Capability
- Redundant voting comparators with FDMA/TDMA (DDM) capability
- Redundant Site Controller
- 3 Base Radios to existing Expansion Radio Rack
- Coriant MPLS router
- Additional DC rectifiers to existing Eltek chassis to increase output capacity
- Additional battery strings to increase runtime

Communication Structures Engineering, Inc.

Mr. Patrick Botimer
Structural Design Engineer IV
Armor Tower, Inc
9 North Main St., 2nd Floor; Cortland NY 13045

August 24, 2016

Re: Structural Review of an Existing 365-ft Lattice Steel Tower
Woodbury County Site #9 (a.k.a. Moville, IA)
Site Name: AT&T / FCC ASR #1016908 ; Lat. N 42° 24' 37", Long. W 95° 59' 58"
Location: County Road L13 Jasper Ave. in Woodbury County IA

Dear Mr. Botimer,

Communication Structures Engineering, Inc. (CSEI) has completed a structural review of the existing 365-ft tower located at this Woodbury County Site #9 , also known as Moville, IA. In accordance with your request, we have performed a structural analysis of this tower to check its capability to support the existing tower, antenna, and equipment loads as well as the loads from the proposed equipment additions. A description of the existing tower and a summary of the loads considered and the results of our review follow.

EXISTING TOWER INFORMATION & HISTORY

The 365-ft self-supported tower at this site was originally built in 1962 for AT&T Long Lines as a microwave repeater structure on AT&T's Fargo to Omaha Radio Relay Route. The tower was designed to initially support six Western Electric KS15676 Horn Antennas on the top platforms. In 1967,1968,1983 1985, & 1987 this tower structure was modified & strengthened by AT&T to accommodate the addition of various AT&T antennas. The tower foundation was also strengthened in 1967 and 1983. AT&T Corporation sold this tower and site in 2000. All of the original horn antennas have now been removed from the tower, but several horn antenna appurtenances are still mounted on the tower. Several customer antennas & lines have been added to the tower since it was sold by AT&T in 2000.

CSEI utilized the original 1962 tower design drawings and 1967,1968,1983,1985,1987 tower strengthening drawings from our archives to conduct our structural review. The original 1962 geotechnical information & foundation drawings from our archives as well as the 1967 and 1983 foundation strengthening drawings were used to evaluate the existing foundation capacity. We also utilized the antenna inventory and tower photos, provided to us by Armor Tower, Inc to determine the existing equipment loads. The new proposed "State of Iowa" antenna additions were taken from the spreadsheet "StateofIowaSiteListBook9f" provided to us. A site visit or condition survey of this tower was not a part of CSEI's scope of work. We have assumed that the tower has been maintained in good physical condition.

DESIGN CRITERIA

The specific loading criteria that we utilized were those prescribed by the "2009 International Building Code" & "ANSI/TIA-222-G", "Structural Standard for Antenna Supporting Structures". Per this Code & Design Standard criteria, the wind speed that we utilized for the review of this structure was the "3 second gust wind speed" of 90-mph applicable to Woodbury County, IA. The tower was analyzed as a Class III Structure. Please see the next page titled, "DESIGN CRITERIA", for a complete listing of all equipment items.

STRUCTURAL ANALYSIS PROCEDURE

The referenced design criteria combined with wind tunnel test data from tests conducted on AT&T tower framing and tower platforms, were utilized to determine the applicable loads for this structure. A frame analysis was then performed utilizing the stated wind loads and a computer model of the tower framing modeled on Power Line Systems Inc. "*PLS Tower*" Program. The load carrying frame members of this structure were then reviewed to check their compliance with the 2009 IBC & ANSI/TIA-222-G.

RESULTS OF STRUCTURAL ANALYSIS

Existing Steel Tower : As a result of this structural analysis, we determined that tower strengthening will be required to enable this steel structure to support the current antennas & lines in compliance with the referenced design criteria. The specific tower members that will require strengthening work are depicted on the attached Drawing TS-1. All other tower structural members were found to have maximum stress levels that were less than the allowable stresses permitted by referenced specifications. Consequently, if the tower members designated on Drawing TS-1 are properly strengthened, this structure will be capable of supporting the itemized loading.

Existing Tower Foundation: The existing tower foundation was found to be adequate to support the existing and proposed tower & equipment loads. No strengthening of the foundation will be necessary.

If any co-location customers add any future additional antennas or equipment to this tower, this structure should be re-analyzed at that time.

CSEI would be happy to respond to any questions regarding this structural analysis.

Sincerely,

James E. Boltz

James E. Boltz, P.E. (IA P.E.14331)

Attachments:

1.) Design Criteria for tower at Woodbury County Site #9 (a.k.a. Moville, IA)
2.) CSEI Drawing TS-1, Tower Strengthening Woodbury County Site #9
3.) Structural Calculations for tower at Woodbury County Site #9 (a.k.a. Moville, IA)

DESIGN CRITERIA

8/24/16

Woodbury County Site #9. Site Name: AT&T / FCC ASR #1016908
LOCATION: C.R L13 Jasper Ave. Woodbury County IA
Latitude N 42° 24' 37", Longitude W 95° 59' 58"

DESIGN STANDARDS

ANSI/TIA/EIA-222-G-2, 90 MPH (3-Second Gust Wind Speed) for Woodbury County
Structure Class III; Exposure 'C' ; Topographic Category 1

In addition to the loads from the existing tower framing and standard platforms the loads from the following antennas and their associated transmission lines were considered in the analysis.

EXISTING ANTENNA CONFIGURATION (Used for Structural Analysis)

Location	Elevation (mount ht +/-)	Item (Type)	Qty	Dim's (approx.)	Mount type	Qty of Feed Lines	Size of Feed Lines
Upper Platform 365-ft Elevation	368-ft	6-ft yagi	1	std. 6-ft yagi	braced pipe	1	7/8" coax
	369-ft	omni 8 double bay dipole	1	2.5" dia x 20-ft	braced pipe	1	7/8" coax
	370-ft	omni 4 bay dipole	1	2.5" dia x 25-ft	tri-pod	1	7/8" coax
	370-ft	omni (bogner style)	1	3" dia. x 12-ft	tri-pod	1	1-1/4" coax
	368-ft	omni small 4-ft	1	2" dia x 4-ft	handrail mt.	1	3/8" coax
	370-ft	omni 4 bay dipole	1	2.5" dia x 25-ft	tri-pod	none	none dead
	370-ft	omni	1	2.5" dia x 20-ft	tri-pod	1	7/8" coax
	370-ft	omni (bogner style) w/ amplifier (12"x12")	1	3" dia. x 12-ft	tri-pod	2	7/8" & 1/2" coax
	370-ft	omni 4 bay dipole	1	2.5" dia x 25-ft	tri-pod	1	7/8" coax
	378-ft	Strobe on std mast	1	4" x 13-ft mast	beam mast	1	1/2" Power
Lower Platform 350-ft Elevation	363-ft	omni 4 bay dipole	1	2.5" dia x 15-ft	Inverted from Pltfm above	1	7/8" coax
	360-ft	omni	1	3" dia x 8-ft	tri-pod /gate bm	1	7/8" coax
	358-ft	4-ft parabolic / RFS	1	standard dish (no radome)	pipe to leg	1	1/2" coax
N & W face	325'-300'	saddle mounts R.I.P.	2	standard saddle w/ milkstool	Gabriel TH-10 (removed)	none	none
C Leg	302-ft	omni small 5-ft	1	2" dia x 5-ft	2' x 4' boom	1	1/2" coax
S & W Face	250-ft	orig. O.B. light pltforms	2	Std on 2 faces	-	none	none
A & C Leg	223-ft	Strobe lights	2	Std.	-	2	1/2" Power
C & D Leg	200-ft	(2) large corner pltfms	2	Horns Removed	KS15676 (removed)	none	none
D Leg	170-ft	8-ft parabolic / RFS	1	standard dish (with radome)	pipe to leg	1	EW-52
South Face	150'-125'	saddle mount R.I.P.	1	standard saddle w/ milkstool	Gabriel TH-10 (Removed)	none	none
D Leg	149-ft	8-ft parabolic / RFS	1	standard dish (with radome)	pipe to leg	1	EW-52
D Leg	138-ft	6-ft parabolic / RFS	1	standard dish (with radome)	pipe to leg	1	EW-52
E & S Face	125-ft	orig. O.B. light pltforms	2	std on 2 faces	-	none	none
C Leg	119-ft	6-ft parabolic / RFS	1	Standard dish (no radome)	pipe to leg	1	EW-52
C Leg	108-ft	omni	1	3" dia. x 9-ft	small 2-ft boom	1	1/2" coax
D Leg	103-ft	4-ft yagi	1	std. 4-ft yagi	pipe to leg	1	1/2 "coax
D Leg	54-ft	2-ft yagi	1	std. 2-ft yagi	pipe to leg	1	3/8" coax
D Leg	44-ft	2-ft parabolic	1	standard dish (with radome)	pipe to leg	1	1/2" Assumed

See next page for New Loading now Proposed

DESIGN CRITERIA
(Continued)

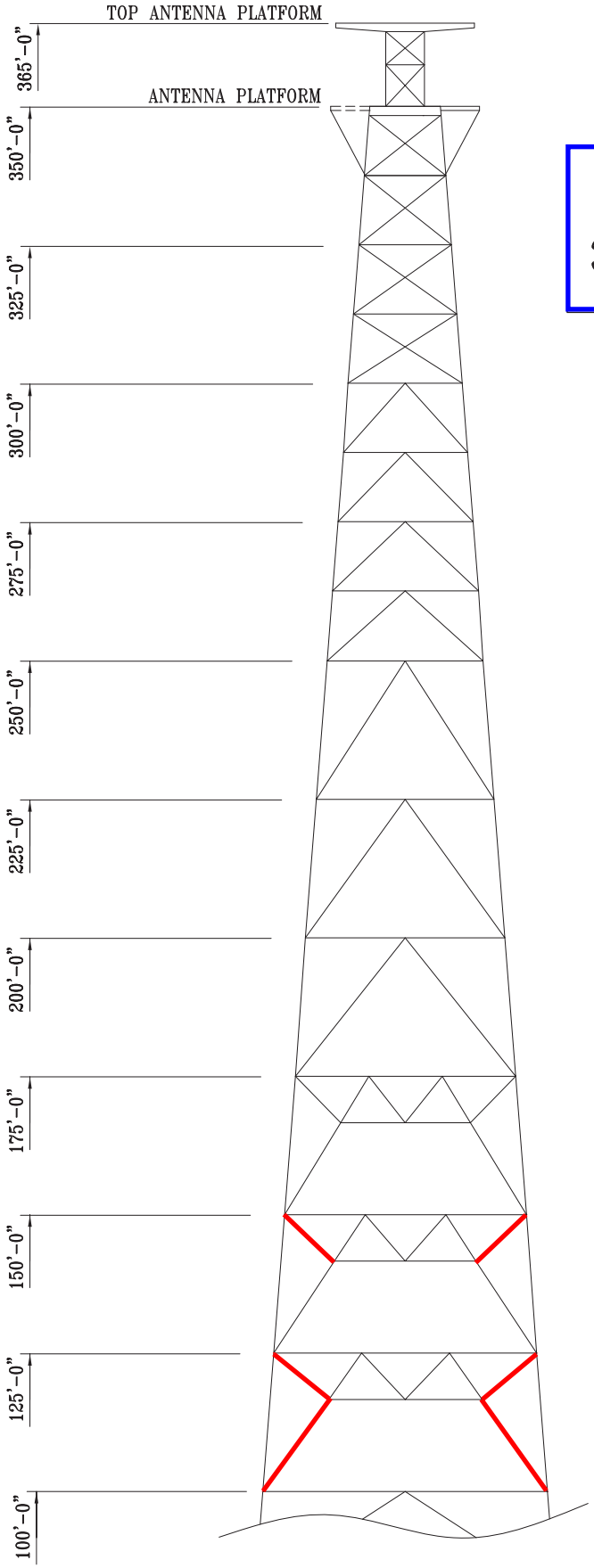
Supplementary Waveguide & Access Ladders
These are added ladders (the main climbing ladder is already included in standard tower loads)

Location	Elevation (mount ht +/-)	Item (Type)	Qty	Dim's (approx.)	Comment
Near Middle of West Tower Face	From Grade @ 0-ft to Upper Platform @ 365-ft	28" wide waveguide ladder	1	28" wide ladder (2.5" angle rails) x 365-ft 2" cross memb. @ 48"	(11 total lines supported on this ladder)
		18" wide waveguide ladder)	1	28" wide ladder (2.5" angle rails) x 365-ft 2" cross memb. @ 48"	(8 total lines supported on this ladder)
		12" wide access climbing ladder	1	2" bars with .75" rungs @ 12"	(No lines supported on this ladder)

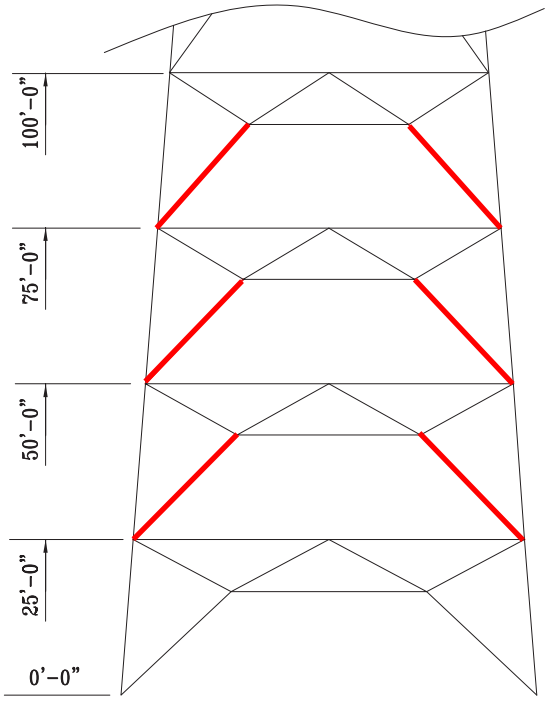
NEW (PROPOSED) ANTENNA CONFIGURATION (Used for Structural Analysis)

State of Iowa Proposed Antennas

Location	Elevation (mount ht +/-)	Item (Type)	Qty	Dim's (approx.)	Mount type	Qty of Feed Lines	Size of Feed Lines
Main Antenna Platform	**350-ft+/-**	Sinclair Technologies SC412-HF2LDF	1	Omni stick 5" dia x 21-ft (approx 80 lbs)	braced pipe or tripod	1	7/8"
West tower leg AZ = 287 deg.	**140-ft**	6-ft Parabolic / RFS SB6-W60AC	1	High Perf. Dish with Radome (75" dia x 22"+/-)	pipe to leg	1	CNT-400 (.405" O.D.) Commscope
West tower leg AZ = 287 deg.	**115-ft**	4-ft Parabolic / RFS SB4-W60AD	1	High Perf. Dish with Radome (50" dia x 15"+/-)	pipe to leg	1	CNT-400 (.405" O.D.) Commscope
East tower leg AZ = 104 deg.	**115-ft**	6-ft Parabolic / RFS SB6-W60AC	1	High Perf. dish with Radome (75" dia x 22"+/-)	pipe to leg	1	CNT-400 (.405" O.D.) Commscope



MOVILLE, IA
365'-0" TYPE 'A2' TOWER



NOTE A
MEMBERS SHOWN IN RED
ARE TO BE STRENGTHENED.

⚠	ORIGINAL ISSUE	8/22/16	Communication Structures Engineering, Inc. 5579-B Chamblee Dunwoody Rd. / Suite 517 Dunwoody, Georgia 30338 (770) 951-8080	Designed by: A. K. PADMAN Drawn by: A. K. PADMAN Checked by: J. E. BOLTZ	MOVILLE, IA TOWER STRENGTHENING	Date: AUGUST 2016 Project No: 16-214 Scale: NO SCALE SHEET No: TS-1

COMMUNICATION STRUCTURES ENGINEERING, INC.
5579-B Chamblee Dunwoody Rd. /Suite 517
Dunwoody, GA 30338 (770) 951-8080

STRUCTURAL CALCULATIONS

FOR

365-ft Self-Supported Tower

Woodbury County Site#9

Site Name: AT&T / FCC ASR #1016908

Issue Date: August 24, 2016

TABLE OF CONTENTS

DESIGN CRITERIA

Woodbury County Site #9. Site Name: AT&T / FCC ASR #1016908
LOCATION: C.R L13 Jasper Ave. Woodbury County IA
Latitude N 42° 24' 37", Longitude W 95° 59' 58"

DESIGN STANDARDS

ANSI/TIA/EIA-222-G-2, 90 MPH (3-Second Gust Wind Speed) for Woodbury County
Structure Class III; Exposure 'C' ; Topographic Category 1

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DESIGN CRITERIA
(Continued)

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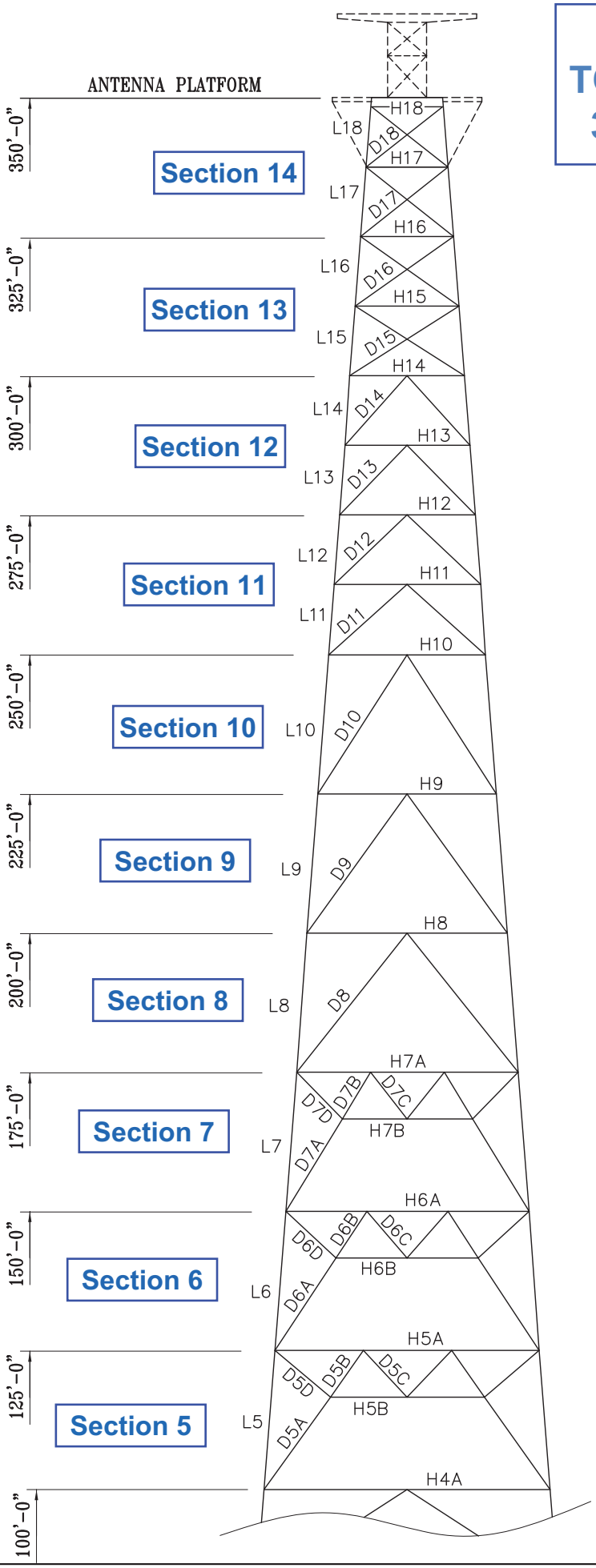
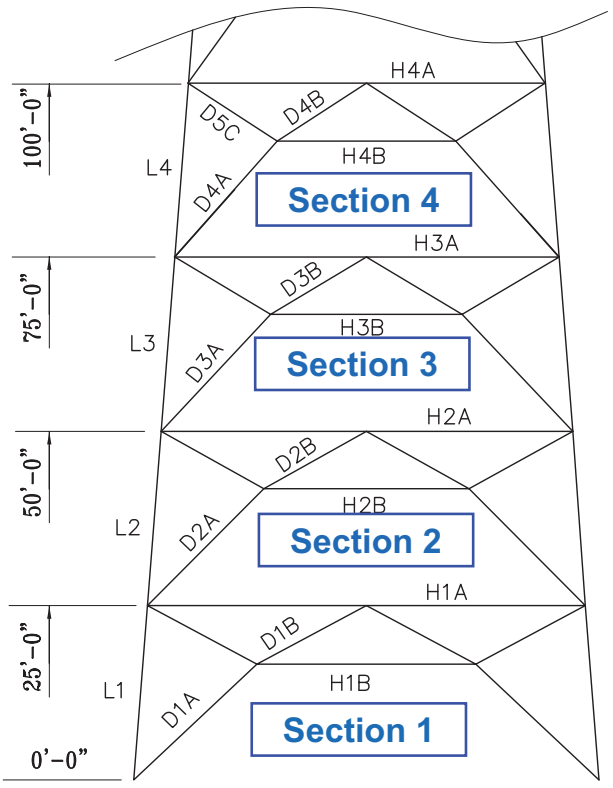
MOVILLE IA
TOWER ANALYSIS MODEL
365-FT TYPE A2 TOWER





Communication Structures Engineering, Inc.
5579-B Chamblee Dunwoody Rd. / Suite 517
Dunwoody, Georgia 30338
(770) 951-8080

ANALYSIS RESULTS SUMMARY

Tower Component Stresses vs. Capacity

Section No. *(see Analysis Model for section locations)*	Elevation (ft)	Percent Capacity Used		
		Leg	Diagonal	Horizontal
1	0'-0" to 25'-0"	80.3%	91.9%	71.9%
2	25'-0" to 50'-0"'	77.7%	**137.7%**	59.5%
3	50'-0" to 75'-0"	74.7%	**125.3%**	94.3%
4	75"-0" to 100'-0"	71.7%	**132.7%**	54.6%
5	100'-0" to 125'-0"	65.2%	**224.5%**	**103.8%**
6	125'-0" to 150'-0"'	70.2%	**157.1%**	96.7%
7	150'-0" to 175'-0"	71.6%	90.7%	65.1%
8	175"-0" to 200'-0"	66.2%	63.4%	29.2%
9	200'-0" to 225'-0"	63.1%	76.1%	66.3%
10	225'-0" to 250'-0"	59.2%	70.6%	49.4%
11	250'-0" to 275-0"	61.5%	65.9%	42.5%
12	275'-0" to 300'-0'	51.6%	62.8%	31.3%
13	300'-0" to 325-0"	41.9%	48.9%	14.1%
14	325-0" to 350-0"	31.0%	87.2%	10.0%

TOWER FOUNDATION

Foundation Uplift Loads (with Load factor) from Current Analysis = **549 kips uplift**

Foundation Down Load (with Load factor) from Current Analysis = **736 kips uplift**

Factored Uplift Loads / Foundation Capacity

Uplift 549 K / 639K = 86% of capacity

UN-factored Downward Loads / Foundation Capacity

Downward 2.99 KSF / 3.5 KSF = 85% of capacity

Foundation is adequate for the proposed loading

Results above indicate:

- **The tower steel framing not sufficient to support the proposed loading.**
- **The tower foundation is sufficient to support the proposed loading.**

Communication Structures Engineering, Inc.
5579-B Chamblee Dunwoody Rd. /Suite 517/ Dunwoody GA email: mail@comstructures.com (770) 951-8080

```
*****************************************************************************
*                                                                           *
* TOWER - Analysis and Design -  Copyright Power Line Systems, Inc. 1986-2006 *
*                                                                           *
*****************************************************************************

Project Name : MOVILLE, IA
Project Notes: Woodbury County Site #9, AT&T / FCC ASR #1016908
Project File : c:\csei\analysis\analysis\2016\moville ia 07292016\moville ia 07302016 finall.tow
Date run     : 8:32:33 PM Monday, August 22, 2016
Licensed to  : Communication Structures Engineering Inc.

The model has 0 warnings.

Maximum element usage is 224.44% for Angle "g25X" in load case "LOAD 4"   NG

Structure Height Summary (used for calculating wind/ice adjust with height):
  Structure height above ground         350.00 (ft)
  Elevation of structure bottom for wind height adjustment: 0.00 (ft)
  Structure height for structure gust response factor: 350.00 (ft)
  Structure gust response factor, Gh: 0.8500
  Mean wind conversion factor, m: 0.6000
  Wind direction probability factor, Kd, for structures: 0.85, for appurtenances: 0.85
  Guy installation temperature: 32.00 (deg F)
  Tower Type:  Rectangular Latticed

ANSI/TIA 222-G Load Options:
    Structure Class           3
    Exposure Category         C  Open terrain
    Topographic Category 1 (Kzt always 1.0)
    Spectral Response SDS  0.000
    Spectral Response SD1  0.000
```

EIA Rev. G Load Cases:

Load Case Description	Dead Load Factor	Wind Load Factor	Strength Factor	Load Case Type	Basic Wind Speed (mph)	Wind Dir. (Deg)	Mean Wind Start Elevation (ft)	Mean Wind Stop Elevation (ft)	Ice Thick. (in)	Ice Density (lbs/ft^3)	Temperature (deg F)	Point Loads	Joint Displ.
LOAD 1	1.2000	1.6000	1.0000	Regular	90.000	0	0.00	0.00	0.0000	0.0000	0.0	12 loads	
LOAD 2	0.9000	1.6000	1.0000	Regular	90.000	0	0.00	0.00	0.0000	0.0000	0.0	12 loads	
LOAD 3	1.2000	1.6000	1.0000	Regular	90.000	45	0.00	0.00	0.0000	0.0000	0.0	8 loads	
LOAD 4	0.9000	1.6000	1.0000	Regular	90.000	45	0.00	0.00	0.0000	0.0000	0.0	8 loads	
LOAD 5	1.2000	1.0000	1.0000	Regular	50.000	0	0.00	0.00	0.7500	56.0000	10.0	12 loads	
LOAD 6	1.2000	1.0000	1.0000	Regular	50.000	45	0.00	0.00	0.7500	56.0000	10.0	8 loads	

EIA Sections Information:

Section Label	Top Z (ft)	Bottom Z (ft)	Joint Count	Member Count	Top Width (ft)	Bottom Width (ft)	Gross Area (ft^2)	Face Af Adjust Factor	Face Ar Adjust Factor	Dead Load Factor
1	350.000	325.000	12	42	12.50	16.25	359.38	1.2000	1.0000	1.300
2	325.000	300.000	16	43	16.25	20.00	453.13	1.2000	1.0000	1.300
3	300.000	275.000	24	50	20.00	23.75	546.88	1.3900	1.0000	1.340
4	275.000	250.000	24	50	23.75	27.50	640.62	1.2400	1.0000	1.500
5	250.000	225.000	16	25	27.50	31.25	734.38	1.2100	1.0000	1.450
6	225.000	200.000	16	25	31.25	35.00	828.12	1.1900	1.0000	1.410
7	200.000	175.000	20	24	35.00	38.75	921.87	1.3500	1.0000	1.460
8	175.000	150.000	36	56	38.75	42.50	1015.63	1.2700	1.0000	1.500
9	150.000	125.000	36	56	42.50	46.25	1109.38	1.2100	1.0000	1.500
10	125.000	100.000	32	52	47.50	50.00	1218.75	1.5100	1.0000	1.600
11	100.000	75.000	24	36	50.00	53.75	1296.88	1.4000	1.0000	1.500
12	75.000	50.000	24	36	53.75	57.50	1390.63	1.4000	1.0000	1.500
13	50.000	25.000	24	36	57.50	61.25	1484.38	1.4000	1.0000	1.500
14	25.000	0.000	20	28	61.25	65.00	1578.13	1.4000	1.0000	1.500

Equipment Library:

Equipment Property Label	Stock Number	Weight (lbs)	Wind Area (ft^2)	Ice Area (ft^2)	Shape or EIA Antenna Type	Drag Coef.	Diameter (ft)	Height (ft)
ANTENNA PLATFORM		8000.0	30.00	0.00		1.00	0.00	0.00
MILK STOOL		1500.0	10.00	0.00		1.00	0.00	0.00
DA UPPER PLATFORM		300.0	31.50	0.00		1.00	0.00	0.00
DA LOWER PLATFORM		50.0	11.25	0.00		1.00	0.00	0.00
SM AT 325 FT		200.0	15.00	0.00		1.00	0.00	0.00
SM AT 300 FT		500.0	30.00	0.00		1.00	0.00	0.00
DA AT 302 FT		20.0	2.50	0.00		1.00	0.00	0.00
CP AT 200 FT		1000.0	50.00	0.00		1.00	0.00	0.00
DA AT 170 FT		350.0	15.00	0.00		1.00	0.00	0.00
SM AT 150 FT		200.0	15.00	0.00		1.00	0.00	0.00
SM AT 125 FT		500.0	30.00	0.00		1.00	0.00	0.00
DA AT 149 FT		350.0	15.00	0.00		1.00	0.00	0.00
DA AT 138 FT		200.0	10.00	0.00		1.00	0.00	0.00
DA AT 119 FT		200.0	10.00	0.00		1.00	0.00	0.00
DA AT 108 FT		10.0	2.00	0.00		1.00	0.00	0.00
DA AT 103 FT		10.0	2.00	0.00		1.00	0.00	0.00
DA AT 54 FT		10.0	2.00	0.00		1.00	0.00	0.00
DA AT 44 FT		25.0	2.50	0.00		1.00	0.00	0.00
SOI AT 350 FT		6.0	30.00	0.00		1.00	0.00	0.00
SOI AT 140 FT		200.0	10.00	0.00		1.00	0.00	0.00
SOI AT 115-1		100.0	5.00	0.00		1.00	0.00	0.00
SOI AT 115-2		200.0	10.00	0.00		1.00	0.00	0.00

Equipment Connectivity:

Equipment Label	Attach Label	Equipment Property Set	EIA Antenna Orientation Angle (deg)
AP-1	67P	ANTENNA PLATFORM	0.00
AP-2	67X	ANTENNA PLATFORM	0.00
AP-3	67XY	ANTENNA PLATFORM	0.00
AP-4	67Y	ANTENNA PLATFORM	0.00
MS-1	66P	MILK STOOL	0.00
MS-2	66X	MILK STOOL	0.00
MS-3	66XY	MILK STOOL	0.00
MS-4	66Y	MILK STOOL	0.00
MS-5	65P	MILK STOOL	0.00
MS-6	65X	MILK STOOL	0.00
MS-7	65XY	MILK STOOL	0.00
MS-8	65Y	MILK STOOL	0.00
DA-1	67P	DA UPPER PLATFORM	0.00
DA-2	67X	DA UPPER PLATFORM	0.00
DA-3	67XY	DA UPPER PLATFORM	0.00
DA-4	67Y	DA UPPER PLATFORM	0.00
DA-5	67P	DA LOWER PLATFORM	0.00
DA-6	67X	DA LOWER PLATFORM	0.00
DA-7	67XY	DA LOWER PLATFORM	0.00
DA-8	67Y	DA LOWER PLATFORM	0.00
SM-1	65P	SM AT 325 FT	0.00
SM-2	65X	SM AT 325 FT	0.00
SM-3	65XY	SM AT 325 FT	0.00
SM-4	65Y	SM AT 325 FT	0.00
SM-5	61P	SM AT 300 FT	0.00
SM-6	61X	SM AT 300 FT	0.00
SM-7	61XY	SM AT 300 FT	0.00
SM-8	61Y	SM AT 300 FT	0.00
DA-9	61P	DA AT 302 FT	0.00
DA-10	61X	DA AT 302 FT	0.00
DA-11	61XY	DA AT 302 FT	0.00
DA-12	61Y	DA AT 302 FT	0.00
CP-1	43P	CP AT 200 FT	0.00
CP-2	43X	CP AT 200 FT	0.00
CP-3	43XY	CP AT 200 FT	0.00
CP-4	43Y	CP AT 200 FT	0.00
DA-13	36P	DA AT 170 FT	0.00
DA-14	36X	DA AT 170 FT	0.00
DA-15	36XY	DA AT 170 FT	0.00
DA-16	36Y	DA AT 170 FT	0.00
SM-9	29P	SM AT 150 FT	0.00
SM-10	29X	SM AT 150 FT	0.00
SM-11	29XY	SM AT 150 FT	0.00
SM-12	29Y	SM AT 150 FT	0.00
SM-13	22P	SM AT 125 FT	0.00
SM-14	22X	SM AT 125 FT	0.00
SM-15	22XY	SM AT 125 FT	0.00
SM-16	22Y	SM AT 125 FT	0.00
DA-17	29P	DA AT 149 FT	0.00

DA-18	29X	DA AT 149 FT	0.00
DA-19	29XY	DA AT 149 FT	0.00
DA-20	29Y	DA AT 149 FT	0.00
DA-21	32P	DA AT 138 FT	0.00
DA-22	32X	DA AT 138 FT	0.00
DA-23	32XY	DA AT 138 FT	0.00
DA-24	32Y	DA AT 138 FT	0.00
DA-25	22P	DA AT 119 FT	0.00
DA-26	22X	DA AT 119 FT	0.00
DA-27	22XY	DA AT 119 FT	0.00
DA-28	22Y	DA AT 119 FT	0.00
DA-29	17P	DA AT 108 FT	0.00
DA-30	17X	DA AT 108 FT	0.00
DA-31	17XY	DA AT 108 FT	0.00
DA-32	17Y	DA AT 108 FT	0.00
DA-33	17P	DA AT 103 FT	0.00
DA-34	17X	DA AT 103 FT	0.00
DA-35	17XY	DA AT 103 FT	0.00
DA-36	17Y	DA AT 103 FT	0.00
DA-37	8P	DA AT 54 FT	0.00
DA-38	8X	DA AT 54 FT	0.00
DA-39	8XY	DA AT 54 FT	0.00
DA-40	8Y	DA AT 54 FT	0.00
DA-41	8P	DA AT 44 FT	0.00
DA-42	8X	DA AT 44 FT	0.00
DA-43	8XY	DA AT 44 FT	0.00
DA-44	8Y	DA AT 44 FT	0.00
S-1	67P	SOI AT 350 FT	0.00
S-2	67X	SOI AT 350 FT	0.00
S-3	67XY	SOI AT 350 FT	0.00
S-4	67Y	SOI AT 350 FT	0.00
S-5	32P	SOI AT 140 FT	0.00
S-6	32X	SOI AT 140 FT	0.00
S-7	32XY	SOI AT 140 FT	0.00
S-8	32Y	SOI AT 140 FT	0.00
S-9	25P	SOI AT 115-1	0.00
S-10	25X	SOI AT 115-1	0.00
S-11	25XY	SOI AT 115-1	0.00
S-12	25Y	SOI AT 115-1	0.00
S-13	25P	SOI AT 115-2	0.00
S-14	25X	SOI AT 115-2	0.00
S-15	25XY	SOI AT 115-2	0.00
S-16	25Y	SOI AT 115-2	0.00

Linear Appurtenances:

Description	From (ft)	To (ft)	Quantity	Shape	Width or Diameter (in)	Perimeter (in)	Unit Weight (lbs/ft)	In Face	Include in Wind Load Zone
CLIMBING LADDER	0	350	1	Flat	6	20	10	Yes	Yes
ITEM 1	5	350	1	Round	1.09	0	0.33	Yes	Yes
ITEM 2	5	350	1	Round	1.09	0	0.33	Yes	Yes
ITEM 3	5	350	1	Round	1.09	0	0.33	Yes	Yes
ITEM 4	5	350	1	Round	1.55	0	0.66	Yes	Yes

ITEM 5	5	350	1	Round	0.4	0	0.1	Yes	Yes
ITEM 6	5	350	1	Round	1.09	0	0.33	Yes	Yes
ITEM 7A	5	350	1	Round	1.09	0	0.33	Yes	Yes
ITEM 7B	5	350	1	Round	0.63	0	0.15	Yes	Yes
ITEM 8	5	350	1	Round	1.09	0	0.33	Yes	Yes
ITEM 9	5	350	1	Round	0.63	0	0.15	Yes	Yes
ITEM 10	5	350	1	Round	1.09	0	0.33	Yes	Yes
ITEM 11	5	350	1	Round	1.09	0	0.33	Yes	Yes
ITEM 12	5	350	1	Round	0.63	0	0.15	Yes	Yes
ITEM 13	5	302	1	Round	0.63	0	0.15	Yes	Yes
ITEM 14	5	223	2	Round	0.63	0	0.15	Yes	Yes
ITEM 15	5	170	1	Round	2.25	0	0.59	Yes	Yes
ITEM 16	5	149	1	Round	2.25	0	0.59	Yes	Yes
ITEM 17	5	138	1	Round	2.25	0	0.59	Yes	Yes
ITEM 18	5	119	1	Round	2.25	0	0.59	Yes	Yes
ITEM 19	5	108	1	Round	0.63	0	0.15	Yes	Yes
ITEM 20	5	103	1	Round	0.63	0	0.15	Yes	Yes
ITEM 21	5	54	1	Round	0.4	0	0.1	Yes	Yes
ITEM 22	5	44	1	Round	0.63	0	0.15	Yes	Yes
SOI-1	5	350	1	Round	1.09	0	0.33	Yes	Yes
SOI-2	5	140	1	Round	0.41	0	0.1	Yes	Yes
SOI-3	5	115	1	Round	0.41	0	0.1	Yes	Yes
SOI-4	5	115	1	Round	0.41	0	0.1	Yes	Yes
WG LADDER 1	5	350	1	Flat	6	20	5	Yes	Yes
WG LADDER 2	5	350	1	Flat	6	20	5	Yes	Yes
ACCESS CLIMBING LADDER	5	350	1	Flat	1	15	3	Yes	Yes

*** Loads Data

Concentrated Loads for Load Case "LOAD 1":

Joint Label	Force X-Dir (lbs)	Force Y-Dir (lbs)	Force Vertical (lbs)	Moment X-Axis (ft-lbs)	Moment Y-Axis (ft-lbs)	Moment Z-Axis (ft-lbs)	Load Comment
67P	1010	0	4200	0	0	0	
67X	1010	0	4200	0	0	0	
67XY	1010	0	4200	0	0	0	
67Y	1010	0	4200	0	0	0	
67P	0	0	2424	0	0	0	Upper Platform
67X	0	0	2424	0	0	0	Upper Platform
67XY	0	0	-2424	0	0	0	Upper Platform
67Y	0	0	-2424	0	0	0	Upper Platform
67P	0	0	2424	0	0	0 DA	Upper Platform
67X	0	0	2424	0	0	0 DA	Upper Platform
67XY	0	0	-2424	0	0	0 DA	Upper Platform
67Y	0	0	-2424	0	0	0 DA	Upper Platform

Equipment Load Case Information for "LOAD 1":

Equipment Label	Equipment Property Set	Elevation Above Ground (ft)	qzGh (psf)	Ice Thick. (in)	Total Wind Area (ft^2)	Wind Incidence Angle (deg)	222-G CA	222-G CS	222-G CM	Antenna Axial Load FAM (lbs)	Antenna Side Load FSM (lbs)	Antenna Moment MM (ft-lbs)	Long. Load (lbs)	Trans. Load (lbs)	Vert. Load (lbs)

AP-1	ANTENNA PLATFORM	350.00	45.39	0.00	30.00	0.00	1361.77	0.00	9600.00	
AP-2	ANTENNA PLATFORM	350.00	45.39	0.00	30.00	0.00	1361.77	0.00	9600.00	
AP-3	ANTENNA PLATFORM	350.00	45.39	0.00	30.00	0.00	1361.77	0.00	9600.00	
AP-4	ANTENNA PLATFORM	350.00	45.39	0.00	30.00	0.00	1361.77	0.00	9600.00	
MS-1	MILK STOOL	337.50	45.05	0.00	10.00	0.00	450.46	0.00	1800.00	
MS-2	MILK STOOL	337.50	45.05	0.00	10.00	0.00	450.46	0.00	1800.00	
MS-3	MILK STOOL	337.50	45.05	0.00	10.00	0.00	450.46	0.00	1800.00	
MS-4	MILK STOOL	337.50	45.05	0.00	10.00	0.00	450.46	0.00	1800.00	
MS-5	MILK STOOL	325.00	44.69	0.00	10.00	0.00	446.89	0.00	1800.00	
MS-6	MILK STOOL	325.00	44.69	0.00	10.00	0.00	446.89	0.00	1800.00	
MS-7	MILK STOOL	325.00	44.69	0.00	10.00	0.00	446.89	0.00	1800.00	
MS-8	MILK STOOL	325.00	44.69	0.00	10.00	0.00	446.89	0.00	1800.00	
DA-1	DA UPPER PLATFORM	350.00	45.39	0.00	31.50	0.00	1429.85	0.00	360.00	
DA-2	DA UPPER PLATFORM	350.00	45.39	0.00	31.50	0.00	1429.85	0.00	360.00	
DA-3	DA UPPER PLATFORM	350.00	45.39	0.00	31.50	0.00	1429.85	0.00	360.00	
DA-4	DA UPPER PLATFORM	350.00	45.39	0.00	31.50	0.00	1429.85	0.00	360.00	
DA-5	DA LOWER PLATFORM	350.00	45.39	0.00	11.25	0.00	510.66	0.00	60.00	
DA-6	DA LOWER PLATFORM	350.00	45.39	0.00	11.25	0.00	510.66	0.00	60.00	
DA-7	DA LOWER PLATFORM	350.00	45.39	0.00	11.25	0.00	510.66	0.00	60.00	
DA-8	DA LOWER PLATFORM	350.00	45.39	0.00	11.25	0.00	510.66	0.00	60.00	
SM-1	SM AT 325 FT	325.00	44.69	0.00	15.00	0.00	670.34	0.00	240.00	
SM-2	SM AT 325 FT	325.00	44.69	0.00	15.00	0.00	670.34	0.00	240.00	
SM-3	SM AT 325 FT	325.00	44.69	0.00	15.00	0.00	670.34	0.00	240.00	
SM-4	SM AT 325 FT	325.00	44.69	0.00	15.00	0.00	670.34	0.00	240.00	
SM-5	SM AT 300 FT	300.00	43.94	0.00	30.00	0.00	1318.28	0.00	600.00	
SM-6	SM AT 300 FT	300.00	43.94	0.00	30.00	0.00	1318.28	0.00	600.00	
SM-7	SM AT 300 FT	300.00	43.94	0.00	30.00	0.00	1318.28	0.00	600.00	
SM-8	SM AT 300 FT	300.00	43.94	0.00	30.00	0.00	1318.28	0.00	600.00	
DA-9	DA AT 302 FT	300.00	43.94	0.00	2.50	0.00	109.86	0.00	24.00	
DA-10	DA AT 302 FT	300.00	43.94	0.00	2.50	0.00	109.86	0.00	24.00	
DA-11	DA AT 302 FT	300.00	43.94	0.00	2.50	0.00	109.86	0.00	24.00	
DA-12	DA AT 302 FT	300.00	43.94	0.00	2.50	0.00	109.86	0.00	24.00	
CP-1	CP AT 200 FT	200.00	40.35	0.00	50.00	0.00	2017.37	0.00	1200.00	
CP-2	CP AT 200 FT	200.00	40.35	0.00	50.00	0.00	2017.37	0.00	1200.00	
CP-3	CP AT 200 FT	200.00	40.35	0.00	50.00	0.00	2017.37	0.00	1200.00	
CP-4	CP AT 200 FT	200.00	40.35	0.00	50.00	0.00	2017.37	0.00	1200.00	
DA-13	DA AT 170 FT	175.00	39.23	0.00	15.00	0.00	588.43	0.00	420.00	
DA-14	DA AT 170 FT	175.00	39.23	0.00	15.00	0.00	588.43	0.00	420.00	
DA-15	DA AT 170 FT	175.00	39.23	0.00	15.00	0.00	588.43	0.00	420.00	
DA-16	DA AT 170 FT	175.00	39.23	0.00	15.00	0.00	588.43	0.00	420.00	
SM-9	SM AT 150 FT	150.00	37.98	0.00	15.00	0.00	569.64	0.00	240.00	
SM-10	SM AT 150 FT	150.00	37.98	0.00	15.00	0.00	569.64	0.00	240.00	
SM-11	SM AT 150 FT	150.00	37.98	0.00	15.00	0.00	569.64	0.00	240.00	
SM-12	SM AT 150 FT	150.00	37.98	0.00	15.00	0.00	569.64	0.00	240.00	
SM-13	SM AT 125 FT	125.00	36.55	0.00	30.00	0.00	1096.39	0.00	600.00	
SM-14	SM AT 125 FT	125.00	36.55	0.00	30.00	0.00	1096.39	0.00	600.00	
SM-15	SM AT 125 FT	125.00	36.55	0.00	30.00	0.00	1096.39	0.00	600.00	
SM-16	SM AT 125 FT	125.00	36.55	0.00	30.00	0.00	1096.39	0.00	600.00	
DA-17	DA AT 149 FT	150.00	37.98	0.00	15.00	0.00	569.64	0.00	420.00	
DA-18	DA AT 149 FT	150.00	37.98	0.00	15.00	0.00	569.64	0.00	420.00	
DA-19	DA AT 149 FT	150.00	37.98	0.00	15.00	0.00	569.64	0.00	420.00	
DA-20	DA AT 149 FT	150.00	37.98	0.00	15.00	0.00	569.64	0.00	420.00	
DA-21	DA AT 138 FT	141.67	37.52	0.00	10.00	0.00	375.22	0.00	240.00	
DA-22	DA AT 138 FT	141.67	37.52	0.00	10.00	0.00	375.22	0.00	240.00	

DA-23	DA AT 138 FT	141.67	37.52	0.00	10.00	0.00	375.22	0.00	240.00
DA-24	DA AT 138 FT	141.67	37.52	0.00	10.00	0.00	375.22	0.00	240.00
DA-25	DA AT 119 FT	125.00	36.55	0.00	10.00	0.00	365.46	0.00	240.00
DA-26	DA AT 119 FT	125.00	36.55	0.00	10.00	0.00	365.46	0.00	240.00
DA-27	DA AT 119 FT	125.00	36.55	0.00	10.00	0.00	365.46	0.00	240.00
DA-28	DA AT 119 FT	125.00	36.55	0.00	10.00	0.00	365.46	0.00	240.00
DA-29	DA AT 108 FT	100.00	34.87	0.00	2.00	0.00	69.74	0.00	12.00
DA-30	DA AT 108 FT	100.00	34.87	0.00	2.00	0.00	69.74	0.00	12.00
DA-31	DA AT 108 FT	100.00	34.87	0.00	2.00	0.00	69.74	0.00	12.00
DA-32	DA AT 108 FT	100.00	34.87	0.00	2.00	0.00	69.74	0.00	12.00
DA-33	DA AT 103 FT	100.00	34.87	0.00	2.00	0.00	69.74	0.00	12.00
DA-34	DA AT 103 FT	100.00	34.87	0.00	2.00	0.00	69.74	0.00	12.00
DA-35	DA AT 103 FT	100.00	34.87	0.00	2.00	0.00	69.74	0.00	12.00
DA-36	DA AT 103 FT	100.00	34.87	0.00	2.00	0.00	69.74	0.00	12.00
DA-37	DA AT 54 FT	50.00	30.13	0.00	2.00	0.00	60.27	0.00	12.00
DA-38	DA AT 54 FT	50.00	30.13	0.00	2.00	0.00	60.27	0.00	12.00
DA-39	DA AT 54 FT	50.00	30.13	0.00	2.00	0.00	60.27	0.00	12.00
DA-40	DA AT 54 FT	50.00	30.13	0.00	2.00	0.00	60.27	0.00	12.00
DA-41	DA AT 44 FT	50.00	30.13	0.00	2.50	0.00	75.34	0.00	30.00
DA-42	DA AT 44 FT	50.00	30.13	0.00	2.50	0.00	75.34	0.00	30.00
DA-43	DA AT 44 FT	50.00	30.13	0.00	2.50	0.00	75.34	0.00	30.00
DA-44	DA AT 44 FT	50.00	30.13	0.00	2.50	0.00	75.34	0.00	30.00
S-1	SOI AT 350 FT	350.00	45.39	0.00	30.00	0.00	1361.77	0.00	7.20
S-2	SOI AT 350 FT	350.00	45.39	0.00	30.00	0.00	1361.77	0.00	7.20
S-3	SOI AT 350 FT	350.00	45.39	0.00	30.00	0.00	1361.77	0.00	7.20
S-4	SOI AT 350 FT	350.00	45.39	0.00	30.00	0.00	1361.77	0.00	7.20
S-5	SOI AT 140 FT	141.67	37.52	0.00	10.00	0.00	375.22	0.00	240.00
S-6	SOI AT 140 FT	141.67	37.52	0.00	10.00	0.00	375.22	0.00	240.00
S-7	SOI AT 140 FT	141.67	37.52	0.00	10.00	0.00	375.22	0.00	240.00
S-8	SOI AT 140 FT	141.67	37.52	0.00	10.00	0.00	375.22	0.00	240.00
S-9	SOI AT 115-1	116.67	36.02	0.00	5.00	0.00	180.10	0.00	120.00
S-10	SOI AT 115-1	116.67	36.02	0.00	5.00	0.00	180.10	0.00	120.00
S-11	SOI AT 115-1	116.67	36.02	0.00	5.00	0.00	180.10	0.00	120.00
S-12	SOI AT 115-1	116.67	36.02	0.00	5.00	0.00	180.10	0.00	120.00
S-13	SOI AT 115-2	116.67	36.02	0.00	10.00	0.00	360.19	0.00	240.00
S-14	SOI AT 115-2	116.67	36.02	0.00	10.00	0.00	360.19	0.00	240.00
S-15	SOI AT 115-2	116.67	36.02	0.00	10.00	0.00	360.19	0.00	240.00
S-16	SOI AT 115-2	116.67	36.02	0.00	10.00	0.00	360.19	0.00	240.00

EIA Section Load Case Information for "LOAD 1":

Note: qzGh (adjusted wind pressure) includes: Velocity Pressure Coefficient (Kz), Topographic Factor (Kzt), Gust Effect Factor (Gh), Wind Direction Probability Factor (Kd), Wind Importance Factor (Table 2-3), Wind Load Factor (from Loads/EIA Loads)
Face RR is the minimum round reduction factor for all round angles and appurtenances in the section

Section Label	Z of Top (ft)	Z of Bottom (ft)	Ave. Elev. Above Gnd. (ft)	qzGh (psf)	Ice Thick. (in)	Face AF (ft^2)	Face AR (ft^2)	Face RR*AR (ft^2)	Face AG (ft^2)	Face e	Face DF	Face DR	Face RR	Face CF	Face AE (ft^2)	Face WF (lbs)	NotF AAF (ft^2)	NotF CAF	NotF AAR (ft^2)	NotF CAR	NotF AAR*CAR (ft^2)	NotF WA (lbs)	Total Wind (lbs)	Total Weight (lbs)
1	350.00	325.00	337.50	45.05	0.00	83.56	0.00	0.00	359.4	0.23	1.00	1.00	0.46	2.84	83.6	10707	38.75	2.00	17.06	0.62	20.48	4413	15120	12227
2	325.00	300.00	312.50	44.32	0.00	68.06	0.00	0.00	453.1	0.15	1.00	1.00	0.43	3.20	68.1	9665	38.75	2.00	17.13	0.63	20.55	4346	14011	12455
3	300.00	275.00	287.50	43.55	0.00	71.72	0.00	0.00	546.9	0.13	1.00	1.00	0.43	3.30	71.7	10292	38.75	2.00	17.85	0.63	21.42	4308	14600	13169
4	275.00	250.00	262.50	42.72	0.00	72.74	0.00	0.00	640.6	0.11	1.00	1.00	0.42	3.38	72.7	10510	38.75	2.00	17.85	0.64	21.42	4226	14736	17055
5	250.00	225.00	237.50	41.83	0.00	70.86	0.00	0.00	734.4	0.10	1.00	1.00	0.39	3.47	70.9	10281	38.75	2.00	17.85	0.65	21.42	4138	14419	16032
6	225.00	200.00	212.50	40.87	0.00	73.26	0.00	0.00	828.1	0.09	1.00	1.00	0.39	3.51	73.3	10506	38.75	2.00	19.30	0.65	23.16	4113	14620	17949

7	200.00	175.00	187.50	39.80	0.00	86.85	0.00	0.00	921.9	0.09	1.00	1.00	0.39	3.48	86.8	12028	38.75	2.00	19.42	0.66	23.31	4013	16041	20677
8	175.00	150.00	162.50	38.62	0.00	104.31	0.00	0.00	1015.6	0.10	1.00	1.00	0.40	3.44	104.3	13843	38.75	2.00	21.68	0.67	26.01	3998	17841	26112
9	150.00	125.00	137.50	37.29	0.00	114.68	0.00	0.00	1109.4	0.10	1.00	1.00	0.40	3.43	114.7	14679	38.75	2.00	26.71	0.68	32.05	4085	18764	27007
10	125.00	100.00	112.50	35.74	0.00	139.97	0.00	0.00	1218.8	0.11	1.00	1.00	0.40	3.38	140.0	16886	38.75	2.00	31.47	0.70	37.77	4120	21007	33518
11	100.00	75.00	87.50	33.90	0.00	172.13	0.00	0.00	1296.9	0.13	1.00	1.00	0.41	3.29	172.1	19184	38.75	2.00	33.79	0.72	40.55	4002	23186	32245
12	75.00	50.00	62.50	31.58	0.00	180.20	0.00	0.00	1390.6	0.13	1.00	1.00	0.41	3.30	180.2	18797	38.75	2.00	33.87	0.74	40.64	3731	22528	33510
13	50.00	25.00	37.50	28.36	0.00	192.36	0.00	0.00	1484.4	0.13	1.00	1.00	0.41	3.30	192.4	18019	38.75	2.00	34.89	0.78	41.86	3386	21405	39193
14	25.00	0.00	12.50	23.42	0.00	179.31	0.00	0.00	1578.1	0.11	1.00	1.00	0.40	3.38	179.3	14198	33.50	2.00	28.06	0.86	33.67	2358	16556	35064

Concentrated Loads for Load Case "LOAD 2":

Joint Label	Force X-Dir (lbs)	Force Y-Dir (lbs)	Force Vertical (lbs)	Moment X-Axis (ft-lbs)	Moment Y-Axis (ft-lbs)	Moment Z-Axis (ft-lbs)	Load Comment
67P	1010	0	3150	0	0	0	
67X	1010	0	3150	0	0	0	
67XY	1010	0	3150	0	0	0	
67Y	1010	0	3150	0	0	0	
67P	0	0	2424	0	0	0	
67X	0	0	2424	0	0	0	
67XY	0	0	-2424	0	0	0	
67Y	0	0	-2424	0	0	0	
67P	0	0	2424	0	0	0	
67X	0	0	2424	0	0	0	
67XY	0	0	-2424	0	0	0	
67Y	0	0	-2424	0	0	0	

Equipment Load Case Information for "LOAD 2":

Equipment Label	Equipment Property Set	Elevation Above Ground (ft)	qzGh (psf)	Ice Thick. (in)	Total Wind Area (ft^2)	Wind Incidence Angle (deg)	222-G CA	222-G CS	222-G CM	Antenna Axial Load FAM (lbs)	Antenna Side Load FSM (lbs)	Antenna Moment MM (ft-lbs)	Long. Load (lbs)	Trans. Load (lbs)	Vert. Load (lbs)
AP-1	ANTENNA PLATFORM	350.00	45.39	0.00	30.00	0.00							1361.77	0.00	7200.00
AP-2	ANTENNA PLATFORM	350.00	45.39	0.00	30.00	0.00							1361.77	0.00	7200.00
AP-3	ANTENNA PLATFORM	350.00	45.39	0.00	30.00	0.00							1361.77	0.00	7200.00
AP-4	ANTENNA PLATFORM	350.00	45.39	0.00	30.00	0.00							1361.77	0.00	7200.00
MS-1	MILK STOOL	337.50	45.05	0.00	10.00	0.00							450.46	0.00	1350.00
MS-2	MILK STOOL	337.50	45.05	0.00	10.00	0.00							450.46	0.00	1350.00
MS-3	MILK STOOL	337.50	45.05	0.00	10.00	0.00							450.46	0.00	1350.00
MS-4	MILK STOOL	337.50	45.05	0.00	10.00	0.00							450.46	0.00	1350.00
MS-5	MILK STOOL	325.00	44.69	0.00	10.00	0.00							446.89	0.00	1350.00
MS-6	MILK STOOL	325.00	44.69	0.00	10.00	0.00							446.89	0.00	1350.00
MS-7	MILK STOOL	325.00	44.69	0.00	10.00	0.00							446.89	0.00	1350.00
MS-8	MILK STOOL	325.00	44.69	0.00	10.00	0.00							446.89	0.00	1350.00
DA-1	DA UPPER PLATFORM	350.00	45.39	0.00	31.50	0.00							1429.85	0.00	270.00
DA-2	DA UPPER PLATFORM	350.00	45.39	0.00	31.50	0.00							1429.85	0.00	270.00
DA-3	DA UPPER PLATFORM	350.00	45.39	0.00	31.50	0.00							1429.85	0.00	270.00
DA-4	DA UPPER PLATFORM	350.00	45.39	0.00	31.50	0.00							1429.85	0.00	270.00
DA-5	DA LOWER PLATFORM	350.00	45.39	0.00	11.25	0.00							510.66	0.00	45.00
DA-6	DA LOWER PLATFORM	350.00	45.39	0.00	11.25	0.00							510.66	0.00	45.00
DA-7	DA LOWER PLATFORM	350.00	45.39	0.00	11.25	0.00							510.66	0.00	45.00
DA-8	DA LOWER PLATFORM	350.00	45.39	0.00	11.25	0.00							510.66	0.00	45.00

SM-1	SM AT 325 FT	325.00	44.69	0.00	15.00	0.00	670.34	0.00	180.00
SM-2	SM AT 325 FT	325.00	44.69	0.00	15.00	0.00	670.34	0.00	180.00
SM-3	SM AT 325 FT	325.00	44.69	0.00	15.00	0.00	670.34	0.00	180.00
SM-4	SM AT 325 FT	325.00	44.69	0.00	15.00	0.00	670.34	0.00	180.00
SM-5	SM AT 300 FT	300.00	43.94	0.00	30.00	0.00	1318.28	0.00	450.00
SM-6	SM AT 300 FT	300.00	43.94	0.00	30.00	0.00	1318.28	0.00	450.00
SM-7	SM AT 300 FT	300.00	43.94	0.00	30.00	0.00	1318.28	0.00	450.00
SM-8	SM AT 300 FT	300.00	43.94	0.00	30.00	0.00	1318.28	0.00	450.00
DA-9	DA AT 302 FT	300.00	43.94	0.00	2.50	0.00	109.86	0.00	18.00
DA-10	DA AT 302 FT	300.00	43.94	0.00	2.50	0.00	109.86	0.00	18.00
DA-11	DA AT 302 FT	300.00	43.94	0.00	2.50	0.00	109.86	0.00	18.00
DA-12	DA AT 302 FT	300.00	43.94	0.00	2.50	0.00	109.86	0.00	18.00
CP-1	CP AT 200 FT	200.00	40.35	0.00	50.00	0.00	2017.37	0.00	900.00
CP-2	CP AT 200 FT	200.00	40.35	0.00	50.00	0.00	2017.37	0.00	900.00
CP-3	CP AT 200 FT	200.00	40.35	0.00	50.00	0.00	2017.37	0.00	900.00
CP-4	CP AT 200 FT	200.00	40.35	0.00	50.00	0.00	2017.37	0.00	900.00
DA-13	DA AT 170 FT	175.00	39.23	0.00	15.00	0.00	588.43	0.00	315.00
DA-14	DA AT 170 FT	175.00	39.23	0.00	15.00	0.00	588.43	0.00	315.00
DA-15	DA AT 170 FT	175.00	39.23	0.00	15.00	0.00	588.43	0.00	315.00
DA-16	DA AT 170 FT	175.00	39.23	0.00	15.00	0.00	588.43	0.00	315.00
SM-9	SM AT 150 FT	150.00	37.98	0.00	15.00	0.00	569.64	0.00	180.00
SM-10	SM AT 150 FT	150.00	37.98	0.00	15.00	0.00	569.64	0.00	180.00
SM-11	SM AT 150 FT	150.00	37.98	0.00	15.00	0.00	569.64	0.00	180.00
SM-12	SM AT 150 FT	150.00	37.98	0.00	15.00	0.00	569.64	0.00	180.00
SM-13	SM AT 125 FT	125.00	36.55	0.00	30.00	0.00	1096.39	0.00	450.00
SM-14	SM AT 125 FT	125.00	36.55	0.00	30.00	0.00	1096.39	0.00	450.00
SM-15	SM AT 125 FT	125.00	36.55	0.00	30.00	0.00	1096.39	0.00	450.00
SM-16	SM AT 125 FT	125.00	36.55	0.00	30.00	0.00	1096.39	0.00	450.00
DA-17	DA AT 149 FT	150.00	37.98	0.00	15.00	0.00	569.64	0.00	315.00
DA-18	DA AT 149 FT	150.00	37.98	0.00	15.00	0.00	569.64	0.00	315.00
DA-19	DA AT 149 FT	150.00	37.98	0.00	15.00	0.00	569.64	0.00	315.00
DA-20	DA AT 149 FT	150.00	37.98	0.00	15.00	0.00	569.64	0.00	315.00
DA-21	DA AT 138 FT	141.67	37.52	0.00	10.00	0.00	375.22	0.00	180.00
DA-22	DA AT 138 FT	141.67	37.52	0.00	10.00	0.00	375.22	0.00	180.00
DA-23	DA AT 138 FT	141.67	37.52	0.00	10.00	0.00	375.22	0.00	180.00
DA-24	DA AT 138 FT	141.67	37.52	0.00	10.00	0.00	375.22	0.00	180.00
DA-25	DA AT 119 FT	125.00	36.55	0.00	10.00	0.00	365.46	0.00	180.00
DA-26	DA AT 119 FT	125.00	36.55	0.00	10.00	0.00	365.46	0.00	180.00
DA-27	DA AT 119 FT	125.00	36.55	0.00	10.00	0.00	365.46	0.00	180.00
DA-28	DA AT 119 FT	125.00	36.55	0.00	10.00	0.00	365.46	0.00	180.00
DA-29	DA AT 108 FT	100.00	34.87	0.00	2.00	0.00	69.74	0.00	9.00
DA-30	DA AT 108 FT	100.00	34.87	0.00	2.00	0.00	69.74	0.00	9.00
DA-31	DA AT 108 FT	100.00	34.87	0.00	2.00	0.00	69.74	0.00	9.00
DA-32	DA AT 108 FT	100.00	34.87	0.00	2.00	0.00	69.74	0.00	9.00
DA-33	DA AT 103 FT	100.00	34.87	0.00	2.00	0.00	69.74	0.00	9.00
DA-34	DA AT 103 FT	100.00	34.87	0.00	2.00	0.00	69.74	0.00	9.00
DA-35	DA AT 103 FT	100.00	34.87	0.00	2.00	0.00	69.74	0.00	9.00
DA-36	DA AT 103 FT	100.00	34.87	0.00	2.00	0.00	69.74	0.00	9.00
DA-37	DA AT 54 FT	50.00	30.13	0.00	2.00	0.00	60.27	0.00	9.00
DA-38	DA AT 54 FT	50.00	30.13	0.00	2.00	0.00	60.27	0.00	9.00
DA-39	DA AT 54 FT	50.00	30.13	0.00	2.00	0.00	60.27	0.00	9.00
DA-40	DA AT 54 FT	50.00	30.13	0.00	2.00	0.00	60.27	0.00	9.00
DA-41	DA AT 44 FT	50.00	30.13	0.00	2.50	0.00	75.34	0.00	22.50
DA-42	DA AT 44 FT	50.00	30.13	0.00	2.50	0.00	75.34	0.00	22.50
DA-43	DA AT 44 FT	50.00	30.13	0.00	2.50	0.00	75.34	0.00	22.50

DA-44	DA AT 44 FT	50.00	30.13	0.00	2.50	0.00	75.34	0.00	22.50
S-1	SOI AT 350 FT	350.00	45.39	0.00	30.00	0.00	1361.77	0.00	5.40
S-2	SOI AT 350 FT	350.00	45.39	0.00	30.00	0.00	1361.77	0.00	5.40
S-3	SOI AT 350 FT	350.00	45.39	0.00	30.00	0.00	1361.77	0.00	5.40
S-4	SOI AT 350 FT	350.00	45.39	0.00	30.00	0.00	1361.77	0.00	5.40
S-5	SOI AT 140 FT	141.67	37.52	0.00	10.00	0.00	375.22	0.00	180.00
S-6	SOI AT 140 FT	141.67	37.52	0.00	10.00	0.00	375.22	0.00	180.00
S-7	SOI AT 140 FT	141.67	37.52	0.00	10.00	0.00	375.22	0.00	180.00
S-8	SOI AT 140 FT	141.67	37.52	0.00	10.00	0.00	375.22	0.00	180.00
S-9	SOI AT 115-1	116.67	36.02	0.00	5.00	0.00	180.10	0.00	90.00
S-10	SOI AT 115-1	116.67	36.02	0.00	5.00	0.00	180.10	0.00	90.00
S-11	SOI AT 115-1	116.67	36.02	0.00	5.00	0.00	180.10	0.00	90.00
S-12	SOI AT 115-1	116.67	36.02	0.00	5.00	0.00	180.10	0.00	90.00
S-13	SOI AT 115-2	116.67	36.02	0.00	10.00	0.00	360.19	0.00	180.00
S-14	SOI AT 115-2	116.67	36.02	0.00	10.00	0.00	360.19	0.00	180.00
S-15	SOI AT 115-2	116.67	36.02	0.00	10.00	0.00	360.19	0.00	180.00
S-16	SOI AT 115-2	116.67	36.02	0.00	10.00	0.00	360.19	0.00	180.00

EIA Section Load Case Information for "LOAD 2":

Note: qzGh (adjusted wind pressure) includes: Velocity Pressure Coefficient (Kz), Topographic Factor (Kzt), Gust Effect Factor (Gh),
Wind Direction Probability Factor (Kd), Wind Importance Factor (Table 2-3), Wind Load Factor (from Loads/EIA Loads)
Face RR is the minimum round reduction factor for all round angles and appurtenances in the section

Section Label	Z of Top (ft)	Z of Bottom (ft)	Ave. Elev. Above Gnd. (ft)	qzGh (psf)	Ice Thick. (in)	Face AF (ft^2)	Face AR (ft^2)	Face RR*AR (ft^2)	Face AG (ft^2)	Face e	Face DF	Face DR	Face RR	Face CF	Face AE (ft^2)	Face WF (lbs)	NotF AAF (ft^2)	NotF CAF	NotF AAR (ft^2)	NotF CAR	NotF AAR*CAR (ft^2)	NotF WA (lbs)	Total Wind (lbs)	Total Weight (lbs)
1	350.00	325.00	337.50	45.05	0.00	83.56	0.00	0.00	359.4	0.23	1.00	1.00	0.46	2.84	83.6	10707	38.75	2.00	17.06	0.62	20.48	4413	15120	9170
2	325.00	300.00	312.50	44.32	0.00	68.06	0.00	0.00	453.1	0.15	1.00	1.00	0.43	3.20	68.1	9665	38.75	2.00	17.13	0.63	20.55	4346	14011	9341
3	300.00	275.00	287.50	43.55	0.00	71.72	0.00	0.00	546.9	0.13	1.00	1.00	0.43	3.30	71.7	10292	38.75	2.00	17.85	0.63	21.42	4308	14600	9876
4	275.00	250.00	262.50	42.72	0.00	72.74	0.00	0.00	640.6	0.11	1.00	1.00	0.42	3.38	72.7	10510	38.75	2.00	17.85	0.64	21.42	4226	14736	12791
5	250.00	225.00	237.50	41.83	0.00	70.86	0.00	0.00	734.4	0.10	1.00	1.00	0.39	3.47	70.9	10281	38.75	2.00	17.85	0.65	21.42	4138	14419	12024
6	225.00	200.00	212.50	40.87	0.00	73.26	0.00	0.00	828.1	0.09	1.00	1.00	0.39	3.51	73.3	10506	38.75	2.00	19.30	0.65	23.16	4113	14620	13461
7	200.00	175.00	187.50	39.80	0.00	86.85	0.00	0.00	921.9	0.09	1.00	1.00	0.39	3.48	86.8	12028	38.75	2.00	19.42	0.66	23.31	4013	16041	15508
8	175.00	150.00	162.50	38.62	0.00	104.31	0.00	0.00	1015.6	0.10	1.00	1.00	0.40	3.44	104.3	13843	38.75	2.00	21.68	0.67	26.01	3998	17841	19584
9	150.00	125.00	137.50	37.29	0.00	114.68	0.00	0.00	1109.4	0.10	1.00	1.00	0.40	3.43	114.7	14679	38.75	2.00	26.71	0.68	32.05	4085	18764	20255
10	125.00	100.00	112.50	35.74	0.00	139.97	0.00	0.00	1218.8	0.11	1.00	1.00	0.40	3.38	140.0	16886	38.75	2.00	31.47	0.70	37.77	4120	21007	25138
11	100.00	75.00	87.50	33.90	0.00	172.13	0.00	0.00	1296.9	0.13	1.00	1.00	0.41	3.29	172.1	19184	38.75	2.00	33.79	0.72	40.55	4002	23186	24184
12	75.00	50.00	62.50	31.58	0.00	180.20	0.00	0.00	1390.6	0.13	1.00	1.00	0.41	3.30	180.2	18797	38.75	2.00	33.87	0.74	40.64	3731	22528	25133
13	50.00	25.00	37.50	28.36	0.00	192.36	0.00	0.00	1484.4	0.13	1.00	1.00	0.41	3.30	192.4	18019	38.75	2.00	34.89	0.78	41.86	3386	21405	29395
14	25.00	0.00	12.50	23.42	0.00	179.31	0.00	0.00	1578.1	0.11	1.00	1.00	0.40	3.38	179.3	14198	33.50	2.00	28.06	0.86	33.67	2358	16556	26298

Concentrated Loads for Load Case "LOAD 3":

Joint Label	Force X-Dir (lbs)	Force Y-Dir (lbs)	Force Vertical (lbs)	Moment X-Axis (ft-lbs)	Moment Y-Axis (ft-lbs)	Moment Z-Axis (ft-lbs)	Load Comment
67P	1010	0	4200	0	0	0	
67X	1010	0	4200	0	0	0	
67XY	1010	0	4200	0	0	0	
67Y	1010	0	4200	0	0	0	
67P	0	0	2424	0	0	0	
67X	0	0	-2424	0	0	0	

67P	0	0	2424	0	0	0
67X	0	0	-2424	0	0	0

Equipment Load Case Information for "LOAD 3":

Equipment Label	Equipment Property Set	Elevation Above Ground (ft)	qzGh (psf)	Ice Thick. (in)	Total Wind Area (ft^2)	Wind Incidence Angle (deg)	222-G CA	222-G CS	222-G CM	Antenna Axial Load FAM (lbs)	Antenna Side Load FSM (lbs)	Antenna Moment MM (ft-lbs)	Long. Load (lbs)	Trans. Load (lbs)	Vert. Load (lbs)
AP-1	ANTENNA PLATFORM	350.00	45.39	0.00	30.00	315.00							962.91	962.91	9600.00
AP-2	ANTENNA PLATFORM	350.00	45.39	0.00	30.00	315.00							962.91	962.91	9600.00
AP-3	ANTENNA PLATFORM	350.00	45.39	0.00	30.00	315.00							962.91	962.91	9600.00
AP-4	ANTENNA PLATFORM	350.00	45.39	0.00	30.00	315.00							962.91	962.91	9600.00
MS-1	MILK STOOL	337.50	45.05	0.00	10.00	315.00							318.52	318.52	1800.00
MS-2	MILK STOOL	337.50	45.05	0.00	10.00	315.00							318.52	318.52	1800.00
MS-3	MILK STOOL	337.50	45.05	0.00	10.00	315.00							318.52	318.52	1800.00
MS-4	MILK STOOL	337.50	45.05	0.00	10.00	315.00							318.52	318.52	1800.00
MS-5	MILK STOOL	325.00	44.69	0.00	10.00	315.00							316.00	316.00	1800.00
MS-6	MILK STOOL	325.00	44.69	0.00	10.00	315.00							316.00	316.00	1800.00
MS-7	MILK STOOL	325.00	44.69	0.00	10.00	315.00							316.00	316.00	1800.00
MS-8	MILK STOOL	325.00	44.69	0.00	10.00	315.00							316.00	316.00	1800.00
DA-1	DA UPPER PLATFORM	350.00	45.39	0.00	31.50	315.00							1011.06	1011.06	360.00
DA-2	DA UPPER PLATFORM	350.00	45.39	0.00	31.50	315.00							1011.06	1011.06	360.00
DA-3	DA UPPER PLATFORM	350.00	45.39	0.00	31.50	315.00							1011.06	1011.06	360.00
DA-4	DA UPPER PLATFORM	350.00	45.39	0.00	31.50	315.00							1011.06	1011.06	360.00
DA-5	DA LOWER PLATFORM	350.00	45.39	0.00	11.25	315.00							361.09	361.09	60.00
DA-6	DA LOWER PLATFORM	350.00	45.39	0.00	11.25	315.00							361.09	361.09	60.00
DA-7	DA LOWER PLATFORM	350.00	45.39	0.00	11.25	315.00							361.09	361.09	60.00
DA-8	DA LOWER PLATFORM	350.00	45.39	0.00	11.25	315.00							361.09	361.09	60.00
SM-1	SM AT 325 FT	325.00	44.69	0.00	15.00	315.00							474.00	474.00	240.00
SM-2	SM AT 325 FT	325.00	44.69	0.00	15.00	315.00							474.00	474.00	240.00
SM-3	SM AT 325 FT	325.00	44.69	0.00	15.00	315.00							474.00	474.00	240.00
SM-4	SM AT 325 FT	325.00	44.69	0.00	15.00	315.00							474.00	474.00	240.00
SM-5	SM AT 300 FT	300.00	43.94	0.00	30.00	315.00							932.17	932.17	600.00
SM-6	SM AT 300 FT	300.00	43.94	0.00	30.00	315.00							932.17	932.17	600.00
SM-7	SM AT 300 FT	300.00	43.94	0.00	30.00	315.00							932.17	932.17	600.00
SM-8	SM AT 300 FT	300.00	43.94	0.00	30.00	315.00							932.17	932.17	600.00
DA-9	DA AT 302 FT	300.00	43.94	0.00	2.50	315.00							77.68	77.68	24.00
DA-10	DA AT 302 FT	300.00	43.94	0.00	2.50	315.00							77.68	77.68	24.00
DA-11	DA AT 302 FT	300.00	43.94	0.00	2.50	315.00							77.68	77.68	24.00
DA-12	DA AT 302 FT	300.00	43.94	0.00	2.50	315.00							77.68	77.68	24.00
CP-1	CP AT 200 FT	200.00	40.35	0.00	50.00	315.00							1426.49	1426.49	1200.00
CP-2	CP AT 200 FT	200.00	40.35	0.00	50.00	315.00							1426.49	1426.49	1200.00
CP-3	CP AT 200 FT	200.00	40.35	0.00	50.00	315.00							1426.49	1426.49	1200.00
CP-4	CP AT 200 FT	200.00	40.35	0.00	50.00	315.00							1426.49	1426.49	1200.00
DA-13	DA AT 170 FT	175.00	39.23	0.00	15.00	315.00							416.09	416.09	420.00
DA-14	DA AT 170 FT	175.00	39.23	0.00	15.00	315.00							416.09	416.09	420.00
DA-15	DA AT 170 FT	175.00	39.23	0.00	15.00	315.00							416.09	416.09	420.00
DA-16	DA AT 170 FT	175.00	39.23	0.00	15.00	315.00							416.09	416.09	420.00
SM-9	SM AT 150 FT	150.00	37.98	0.00	15.00	315.00							402.80	402.80	240.00
SM-10	SM AT 150 FT	150.00	37.98	0.00	15.00	315.00							402.80	402.80	240.00
SM-11	SM AT 150 FT	150.00	37.98	0.00	15.00	315.00							402.80	402.80	240.00
SM-12	SM AT 150 FT	150.00	37.98	0.00	15.00	315.00							402.80	402.80	240.00
SM-13	SM AT 125 FT	125.00	36.55	0.00	30.00	315.00							775.26	775.26	600.00

SM-14	SM AT 125 FT	125.00	36.55	0.00	30.00	315.00	775.26	775.26	600.00
SM-15	SM AT 125 FT	125.00	36.55	0.00	30.00	315.00	775.26	775.26	600.00
SM-16	SM AT 125 FT	125.00	36.55	0.00	30.00	315.00	775.26	775.26	600.00
DA-17	DA AT 149 FT	150.00	37.98	0.00	15.00	315.00	402.80	402.80	420.00
DA-18	DA AT 149 FT	150.00	37.98	0.00	15.00	315.00	402.80	402.80	420.00
DA-19	DA AT 149 FT	150.00	37.98	0.00	15.00	315.00	402.80	402.80	420.00
DA-20	DA AT 149 FT	150.00	37.98	0.00	15.00	315.00	402.80	402.80	420.00
DA-21	DA AT 138 FT	141.67	37.52	0.00	10.00	315.00	265.32	265.32	240.00
DA-22	DA AT 138 FT	141.67	37.52	0.00	10.00	315.00	265.32	265.32	240.00
DA-23	DA AT 138 FT	141.67	37.52	0.00	10.00	315.00	265.32	265.32	240.00
DA-24	DA AT 138 FT	141.67	37.52	0.00	10.00	315.00	265.32	265.32	240.00
DA-25	DA AT 119 FT	125.00	36.55	0.00	10.00	315.00	258.42	258.42	240.00
DA-26	DA AT 119 FT	125.00	36.55	0.00	10.00	315.00	258.42	258.42	240.00
DA-27	DA AT 119 FT	125.00	36.55	0.00	10.00	315.00	258.42	258.42	240.00
DA-28	DA AT 119 FT	125.00	36.55	0.00	10.00	315.00	258.42	258.42	240.00
DA-29	DA AT 108 FT	100.00	34.87	0.00	2.00	315.00	49.31	49.31	12.00
DA-30	DA AT 108 FT	100.00	34.87	0.00	2.00	315.00	49.31	49.31	12.00
DA-31	DA AT 108 FT	100.00	34.87	0.00	2.00	315.00	49.31	49.31	12.00
DA-32	DA AT 108 FT	100.00	34.87	0.00	2.00	315.00	49.31	49.31	12.00
DA-33	DA AT 103 FT	100.00	34.87	0.00	2.00	315.00	49.31	49.31	12.00
DA-34	DA AT 103 FT	100.00	34.87	0.00	2.00	315.00	49.31	49.31	12.00
DA-35	DA AT 103 FT	100.00	34.87	0.00	2.00	315.00	49.31	49.31	12.00
DA-36	DA AT 103 FT	100.00	34.87	0.00	2.00	315.00	49.31	49.31	12.00
DA-37	DA AT 54 FT	50.00	30.13	0.00	2.00	315.00	42.62	42.62	12.00
DA-38	DA AT 54 FT	50.00	30.13	0.00	2.00	315.00	42.62	42.62	12.00
DA-39	DA AT 54 FT	50.00	30.13	0.00	2.00	315.00	42.62	42.62	12.00
DA-40	DA AT 54 FT	50.00	30.13	0.00	2.00	315.00	42.62	42.62	12.00
DA-41	DA AT 44 FT	50.00	30.13	0.00	2.50	315.00	53.27	53.27	30.00
DA-42	DA AT 44 FT	50.00	30.13	0.00	2.50	315.00	53.27	53.27	30.00
DA-43	DA AT 44 FT	50.00	30.13	0.00	2.50	315.00	53.27	53.27	30.00
DA-44	DA AT 44 FT	50.00	30.13	0.00	2.50	315.00	53.27	53.27	30.00
S-1	SOI AT 350 FT	350.00	45.39	0.00	30.00	315.00	962.91	962.91	7.20
S-2	SOI AT 350 FT	350.00	45.39	0.00	30.00	315.00	962.91	962.91	7.20
S-3	SOI AT 350 FT	350.00	45.39	0.00	30.00	315.00	962.91	962.91	7.20
S-4	SOI AT 350 FT	350.00	45.39	0.00	30.00	315.00	962.91	962.91	7.20
S-5	SOI AT 140 FT	141.67	37.52	0.00	10.00	315.00	265.32	265.32	240.00
S-6	SOI AT 140 FT	141.67	37.52	0.00	10.00	315.00	265.32	265.32	240.00
S-7	SOI AT 140 FT	141.67	37.52	0.00	10.00	315.00	265.32	265.32	240.00
S-8	SOI AT 140 FT	141.67	37.52	0.00	10.00	315.00	265.32	265.32	240.00
S-9	SOI AT 115-1	116.67	36.02	0.00	5.00	315.00	127.35	127.35	120.00
S-10	SOI AT 115-1	116.67	36.02	0.00	5.00	315.00	127.35	127.35	120.00
S-11	SOI AT 115-1	116.67	36.02	0.00	5.00	315.00	127.35	127.35	120.00
S-12	SOI AT 115-1	116.67	36.02	0.00	5.00	315.00	127.35	127.35	120.00
S-13	SOI AT 115-2	116.67	36.02	0.00	10.00	315.00	254.69	254.69	240.00
S-14	SOI AT 115-2	116.67	36.02	0.00	10.00	315.00	254.69	254.69	240.00
S-15	SOI AT 115-2	116.67	36.02	0.00	10.00	315.00	254.69	254.69	240.00
S-16	SOI AT 115-2	116.67	36.02	0.00	10.00	315.00	254.69	254.69	240.00

EIA Section Load Case Information for "LOAD 3":

Note: qzGh (adjusted wind pressure) includes: Velocity Pressure Coefficient (Kz), Topographic Factor (Kzt), Gust Effect Factor (Gh),
Wind Direction Probability Factor (Kd), Wind Importance Factor (Table 2-3), Wind Load Factor (from Loads/EIA Loads)
Face RR is the minimum round reduction factor for all round angles and appurtenances in the section

Section	Z of	Z of Ave. Elev.	qzGh	Ice	Face	Face	Face	Face	Face	Face	Face	Face	Face	Face	NotF	NotF	NotF	NotF	NotF	NotF	Total	Total

Label	Top (ft)	Bottom (ft)	Above Gnd. (ft)	(psf)	Thick. (in)	AF (ft^2)	AR (ft^2)	RR*AR (ft^2)	AG (ft^2)	e	DF	DR	RR	CF	AE (ft^2)	WF (lbs)	AAF (ft^2)	CAF	AAR (ft^2)	CAR	AAR*CAR (ft^2)	WA (lbs)	Wind (lbs)	Weight (lbs)
1	350.00	325.00	337.50	45.05	0.00	83.56	0.00	0.00	359.4	0.23	1.17	1.17	0.46	2.84	98.1	12574	38.75	2.00	17.06	0.62	20.48	4413	16987	12227
2	325.00	300.00	312.50	44.32	0.00	68.06	0.00	0.00	453.1	0.15	1.11	1.11	0.43	3.20	75.7	10754	38.75	2.00	17.13	0.63	20.55	4346	15100	12455
3	300.00	275.00	287.50	43.55	0.00	71.72	0.00	0.00	546.9	0.13	1.10	1.10	0.43	3.30	78.8	11304	38.75	2.00	17.85	0.63	21.42	4308	15612	13169
4	275.00	250.00	262.50	42.72	0.00	72.74	0.00	0.00	640.6	0.11	1.09	1.09	0.42	3.38	78.9	11405	38.75	2.00	17.85	0.64	21.42	4226	15631	17055
5	250.00	225.00	237.50	41.83	0.00	70.86	0.00	0.00	734.4	0.10	1.07	1.07	0.39	3.47	76.0	11025	38.75	2.00	17.85	0.65	21.42	4138	15163	16032
6	225.00	200.00	212.50	40.87	0.00	73.26	0.00	0.00	828.1	0.09	1.07	1.07	0.39	3.51	78.1	11204	38.75	2.00	19.30	0.65	23.16	4113	15317	17949
7	200.00	175.00	187.50	39.80	0.00	86.85	0.00	0.00	921.9	0.09	1.07	1.07	0.39	3.48	93.0	12878	38.75	2.00	19.42	0.66	23.31	4013	16891	20677
8	175.00	150.00	162.50	38.62	0.00	104.31	0.00	0.00	1015.6	0.10	1.08	1.08	0.40	3.44	112.3	14910	38.75	2.00	21.68	0.67	26.01	3998	18907	26112
9	150.00	125.00	137.50	37.29	0.00	114.68	0.00	0.00	1109.4	0.10	1.08	1.08	0.40	3.43	123.6	15817	38.75	2.00	26.71	0.68	32.05	4085	19902	27007
10	125.00	100.00	112.50	35.74	0.00	139.97	0.00	0.00	1218.8	0.11	1.09	1.09	0.40	3.38	152.0	18341	38.75	2.00	31.47	0.70	37.77	4120	22461	33518
11	100.00	75.00	87.50	33.90	0.00	172.13	0.00	0.00	1296.9	0.13	1.10	1.10	0.41	3.29	189.3	21094	38.75	2.00	33.79	0.72	40.55	4002	25096	32245
12	75.00	50.00	62.50	31.58	0.00	180.20	0.00	0.00	1390.6	0.13	1.10	1.10	0.41	3.30	197.7	20624	38.75	2.00	33.87	0.74	40.64	3731	24355	33510
13	50.00	25.00	37.50	28.36	0.00	192.36	0.00	0.00	1484.4	0.13	1.10	1.10	0.41	3.30	211.1	19771	38.75	2.00	34.89	0.78	41.86	3386	23156	39193
14	25.00	0.00	12.50	23.42	0.00	179.31	0.00	0.00	1578.1	0.11	1.09	1.09	0.40	3.38	194.6	15408	33.50	2.00	28.06	0.86	33.67	2358	17766	35064

Concentrated Loads for Load Case "LOAD 4":

Joint Label	Force X-Dir (lbs)	Force Y-Dir (lbs)	Force Vertical (lbs)	Moment X-Axis (ft-lbs)	Moment Y-Axis (ft-lbs)	Moment Z-Axis (ft-lbs)	Load Comment
67P	1010	0	3150	0	0	0	
67X	1010	0	3150	0	0	0	
67XY	1010	0	3150	0	0	0	
67Y	1010	0	3150	0	0	0	
67P	0	0	2424	0	0	0	
67X	0	0	-2424	0	0	0	
67P	0	0	2424	0	0	0	
67X	0	0	-2424	0	0	0	

Equipment Load Case Information for "LOAD 4":

Equipment Label	Equipment Property Set	Elevation Above Ground (ft)	(psf)	qzGh Thick. (in)	Ice Total Wind Area (ft^2)	Wind Incidence Angle (deg)	222-G CA	222-G CS	222-G CM	Antenna Axial Load FAM (lbs)	Antenna Side Load FSM (lbs)	Antenna Moment MM (ft-lbs)	Long. Load (lbs)	Trans. Load (lbs)	Vert. Load (lbs)
AP-1	ANTENNA PLATFORM	350.00	45.39	0.00	30.00	315.00							962.91	962.91	7200.00
AP-2	ANTENNA PLATFORM	350.00	45.39	0.00	30.00	315.00							962.91	962.91	7200.00
AP-3	ANTENNA PLATFORM	350.00	45.39	0.00	30.00	315.00							962.91	962.91	7200.00
AP-4	ANTENNA PLATFORM	350.00	45.39	0.00	30.00	315.00							962.91	962.91	7200.00
MS-1	MILK STOOL	337.50	45.05	0.00	10.00	315.00							318.52	318.52	1350.00
MS-2	MILK STOOL	337.50	45.05	0.00	10.00	315.00							318.52	318.52	1350.00
MS-3	MILK STOOL	337.50	45.05	0.00	10.00	315.00							318.52	318.52	1350.00
MS-4	MILK STOOL	337.50	45.05	0.00	10.00	315.00							318.52	318.52	1350.00
MS-5	MILK STOOL	325.00	44.69	0.00	10.00	315.00							316.00	316.00	1350.00
MS-6	MILK STOOL	325.00	44.69	0.00	10.00	315.00							316.00	316.00	1350.00
MS-7	MILK STOOL	325.00	44.69	0.00	10.00	315.00							316.00	316.00	1350.00
MS-8	MILK STOOL	325.00	44.69	0.00	10.00	315.00							316.00	316.00	1350.00
DA-1	DA UPPER PLATFORM	350.00	45.39	0.00	31.50	315.00							1011.06	1011.06	270.00
DA-2	DA UPPER PLATFORM	350.00	45.39	0.00	31.50	315.00							1011.06	1011.06	270.00
DA-3	DA UPPER PLATFORM	350.00	45.39	0.00	31.50	315.00							1011.06	1011.06	270.00

DA-4	DA UPPER PLATFORM	350.00	45.39	0.00	31.50	315.00	1011.06	1011.06	270.00
DA-5	DA LOWER PLATFORM	350.00	45.39	0.00	11.25	315.00	361.09	361.09	45.00
DA-6	DA LOWER PLATFORM	350.00	45.39	0.00	11.25	315.00	361.09	361.09	45.00
DA-7	DA LOWER PLATFORM	350.00	45.39	0.00	11.25	315.00	361.09	361.09	45.00
DA-8	DA LOWER PLATFORM	350.00	45.39	0.00	11.25	315.00	361.09	361.09	45.00
SM-1	SM AT 325 FT	325.00	44.69	0.00	15.00	315.00	474.00	474.00	180.00
SM-2	SM AT 325 FT	325.00	44.69	0.00	15.00	315.00	474.00	474.00	180.00
SM-3	SM AT 325 FT	325.00	44.69	0.00	15.00	315.00	474.00	474.00	180.00
SM-4	SM AT 325 FT	325.00	44.69	0.00	15.00	315.00	474.00	474.00	180.00
SM-5	SM AT 300 FT	300.00	43.94	0.00	30.00	315.00	932.17	932.17	450.00
SM-6	SM AT 300 FT	300.00	43.94	0.00	30.00	315.00	932.17	932.17	450.00
SM-7	SM AT 300 FT	300.00	43.94	0.00	30.00	315.00	932.17	932.17	450.00
SM-8	SM AT 300 FT	300.00	43.94	0.00	30.00	315.00	932.17	932.17	450.00
DA-9	DA AT 302 FT	300.00	43.94	0.00	2.50	315.00	77.68	77.68	18.00
DA-10	DA AT 302 FT	300.00	43.94	0.00	2.50	315.00	77.68	77.68	18.00
DA-11	DA AT 302 FT	300.00	43.94	0.00	2.50	315.00	77.68	77.68	18.00
DA-12	DA AT 302 FT	300.00	43.94	0.00	2.50	315.00	77.68	77.68	18.00
CP-1	CP AT 200 FT	200.00	40.35	0.00	50.00	315.00	1426.49	1426.49	900.00
CP-2	CP AT 200 FT	200.00	40.35	0.00	50.00	315.00	1426.49	1426.49	900.00
CP-3	CP AT 200 FT	200.00	40.35	0.00	50.00	315.00	1426.49	1426.49	900.00
CP-4	CP AT 200 FT	200.00	40.35	0.00	50.00	315.00	1426.49	1426.49	900.00
DA-13	DA AT 170 FT	175.00	39.23	0.00	15.00	315.00	416.09	416.09	315.00
DA-14	DA AT 170 FT	175.00	39.23	0.00	15.00	315.00	416.09	416.09	315.00
DA-15	DA AT 170 FT	175.00	39.23	0.00	15.00	315.00	416.09	416.09	315.00
DA-16	DA AT 170 FT	175.00	39.23	0.00	15.00	315.00	416.09	416.09	315.00
SM-9	SM AT 150 FT	150.00	37.98	0.00	15.00	315.00	402.80	402.80	180.00
SM-10	SM AT 150 FT	150.00	37.98	0.00	15.00	315.00	402.80	402.80	180.00
SM-11	SM AT 150 FT	150.00	37.98	0.00	15.00	315.00	402.80	402.80	180.00
SM-12	SM AT 150 FT	150.00	37.98	0.00	15.00	315.00	402.80	402.80	180.00
SM-13	SM AT 125 FT	125.00	36.55	0.00	30.00	315.00	775.26	775.26	450.00
SM-14	SM AT 125 FT	125.00	36.55	0.00	30.00	315.00	775.26	775.26	450.00
SM-15	SM AT 125 FT	125.00	36.55	0.00	30.00	315.00	775.26	775.26	450.00
SM-16	SM AT 125 FT	125.00	36.55	0.00	30.00	315.00	775.26	775.26	450.00
DA-17	DA AT 149 FT	150.00	37.98	0.00	15.00	315.00	402.80	402.80	315.00
DA-18	DA AT 149 FT	150.00	37.98	0.00	15.00	315.00	402.80	402.80	315.00
DA-19	DA AT 149 FT	150.00	37.98	0.00	15.00	315.00	402.80	402.80	315.00
DA-20	DA AT 149 FT	150.00	37.98	0.00	15.00	315.00	402.80	402.80	315.00
DA-21	DA AT 138 FT	141.67	37.52	0.00	10.00	315.00	265.32	265.32	180.00
DA-22	DA AT 138 FT	141.67	37.52	0.00	10.00	315.00	265.32	265.32	180.00
DA-23	DA AT 138 FT	141.67	37.52	0.00	10.00	315.00	265.32	265.32	180.00
DA-24	DA AT 138 FT	141.67	37.52	0.00	10.00	315.00	265.32	265.32	180.00
DA-25	DA AT 119 FT	125.00	36.55	0.00	10.00	315.00	258.42	258.42	180.00
DA-26	DA AT 119 FT	125.00	36.55	0.00	10.00	315.00	258.42	258.42	180.00
DA-27	DA AT 119 FT	125.00	36.55	0.00	10.00	315.00	258.42	258.42	180.00
DA-28	DA AT 119 FT	125.00	36.55	0.00	10.00	315.00	258.42	258.42	180.00
DA-29	DA AT 108 FT	100.00	34.87	0.00	2.00	315.00	49.31	49.31	9.00
DA-30	DA AT 108 FT	100.00	34.87	0.00	2.00	315.00	49.31	49.31	9.00
DA-31	DA AT 108 FT	100.00	34.87	0.00	2.00	315.00	49.31	49.31	9.00
DA-32	DA AT 108 FT	100.00	34.87	0.00	2.00	315.00	49.31	49.31	9.00
DA-33	DA AT 103 FT	100.00	34.87	0.00	2.00	315.00	49.31	49.31	9.00
DA-34	DA AT 103 FT	100.00	34.87	0.00	2.00	315.00	49.31	49.31	9.00
DA-35	DA AT 103 FT	100.00	34.87	0.00	2.00	315.00	49.31	49.31	9.00
DA-36	DA AT 103 FT	100.00	34.87	0.00	2.00	315.00	49.31	49.31	9.00
DA-37	DA AT 54 FT	50.00	30.13	0.00	2.00	315.00	42.62	42.62	9.00
DA-38	DA AT 54 FT	50.00	30.13	0.00	2.00	315.00	42.62	42.62	9.00

DA-39	DA AT 54 FT	50.00	30.13	0.00	2.00	315.00	42.62	42.62	9.00
DA-40	DA AT 54 FT	50.00	30.13	0.00	2.00	315.00	42.62	42.62	9.00
DA-41	DA AT 44 FT	50.00	30.13	0.00	2.50	315.00	53.27	53.27	22.50
DA-42	DA AT 44 FT	50.00	30.13	0.00	2.50	315.00	53.27	53.27	22.50
DA-43	DA AT 44 FT	50.00	30.13	0.00	2.50	315.00	53.27	53.27	22.50
DA-44	DA AT 44 FT	50.00	30.13	0.00	2.50	315.00	53.27	53.27	22.50
S-1	SOI AT 350 FT	350.00	45.39	0.00	30.00	315.00	962.91	962.91	5.40
S-2	SOI AT 350 FT	350.00	45.39	0.00	30.00	315.00	962.91	962.91	5.40
S-3	SOI AT 350 FT	350.00	45.39	0.00	30.00	315.00	962.91	962.91	5.40
S-4	SOI AT 350 FT	350.00	45.39	0.00	30.00	315.00	962.91	962.91	5.40
S-5	SOI AT 140 FT	141.67	37.52	0.00	10.00	315.00	265.32	265.32	180.00
S-6	SOI AT 140 FT	141.67	37.52	0.00	10.00	315.00	265.32	265.32	180.00
S-7	SOI AT 140 FT	141.67	37.52	0.00	10.00	315.00	265.32	265.32	180.00
S-8	SOI AT 140 FT	141.67	37.52	0.00	10.00	315.00	265.32	265.32	180.00
S-9	SOI AT 115-1	116.67	36.02	0.00	5.00	315.00	127.35	127.35	90.00
S-10	SOI AT 115-1	116.67	36.02	0.00	5.00	315.00	127.35	127.35	90.00
S-11	SOI AT 115-1	116.67	36.02	0.00	5.00	315.00	127.35	127.35	90.00
S-12	SOI AT 115-1	116.67	36.02	0.00	5.00	315.00	127.35	127.35	90.00
S-13	SOI AT 115-2	116.67	36.02	0.00	10.00	315.00	254.69	254.69	180.00
S-14	SOI AT 115-2	116.67	36.02	0.00	10.00	315.00	254.69	254.69	180.00
S-15	SOI AT 115-2	116.67	36.02	0.00	10.00	315.00	254.69	254.69	180.00
S-16	SOI AT 115-2	116.67	36.02	0.00	10.00	315.00	254.69	254.69	180.00

EIA Section Load Case Information for "LOAD 4":

Note: qzGh (adjusted wind pressure) includes: Velocity Pressure Coefficient (Kz), Topographic Factor (Kzt), Gust Effect Factor (Gh), Wind Direction Probability Factor (Kd), Wind Importance Factor (Table 2-3), Wind Load Factor (from Loads/EIA Loads)
Face RR is the minimum round reduction factor for all round angles and appurtenances in the section

Section Label	Z of Top (ft)	Z of Bottom (ft)	Ave. Elev. Above Gnd. (ft)	qzGh (psf)	Ice Thick. (in)	Face AF (ft^2)	Face AR (ft^2)	Face RR*AR (ft^2)	Face AG (ft^2)	Face e	Face DF	Face DR	Face RR	Face CF	Face AE (ft^2)	Face WF (lbs)	NotF AAF (ft^2)	NotF CAF	NotF AAR (ft^2)	NotF CAR	NotF AAR*CAR (ft^2)	NotF WA (lbs)	Total Wind (lbs)	Total Weight (lbs)
1	350.00	325.00	337.50	45.05	0.00	83.56	0.00	0.00	359.4	0.23	1.17	1.17	0.46	2.84	98.1	12574	38.75	2.00	17.06	0.62	20.48	4413	16987	9170
2	325.00	300.00	312.50	44.32	0.00	68.06	0.00	0.00	453.1	0.15	1.11	1.11	0.43	3.20	75.7	10754	38.75	2.00	17.13	0.63	20.55	4346	15100	9341
3	300.00	275.00	287.50	43.55	0.00	71.72	0.00	0.00	546.9	0.13	1.10	1.10	0.43	3.30	78.8	11304	38.75	2.00	17.85	0.63	21.42	4308	15612	9876
4	275.00	250.00	262.50	42.72	0.00	72.74	0.00	0.00	640.6	0.11	1.09	1.09	0.42	3.38	78.9	11405	38.75	2.00	17.85	0.64	21.42	4226	15631	12791
5	250.00	225.00	237.50	41.83	0.00	70.86	0.00	0.00	734.4	0.10	1.07	1.07	0.39	3.47	76.0	11025	38.75	2.00	17.85	0.65	21.42	4138	15163	12024
6	225.00	200.00	212.50	40.87	0.00	73.26	0.00	0.00	828.1	0.09	1.07	1.07	0.39	3.51	78.1	11204	38.75	2.00	19.30	0.65	23.16	4113	15317	13461
7	200.00	175.00	187.50	39.80	0.00	86.85	0.00	0.00	921.9	0.09	1.07	1.07	0.39	3.48	93.0	12878	38.75	2.00	19.42	0.66	23.31	4013	16891	15508
8	175.00	150.00	162.50	38.62	0.00	104.31	0.00	0.00	1015.6	0.10	1.08	1.08	0.40	3.44	112.3	14910	38.75	2.00	21.68	0.67	26.01	3998	18907	19584
9	150.00	125.00	137.50	37.29	0.00	114.68	0.00	0.00	1109.4	0.10	1.08	1.08	0.40	3.43	123.6	15817	38.75	2.00	26.71	0.68	32.05	4085	19902	20255
10	125.00	100.00	112.50	35.74	0.00	139.97	0.00	0.00	1218.8	0.11	1.09	1.09	0.40	3.38	152.0	18341	38.75	2.00	31.47	0.70	37.77	4120	22461	25138
11	100.00	75.00	87.50	33.90	0.00	172.13	0.00	0.00	1296.9	0.13	1.10	1.10	0.41	3.29	189.3	21094	38.75	2.00	33.79	0.72	40.55	4002	25096	24184
12	75.00	50.00	62.50	31.58	0.00	180.20	0.00	0.00	1390.6	0.13	1.10	1.10	0.41	3.30	197.7	20624	38.75	2.00	33.87	0.74	40.64	3731	24355	25133
13	50.00	25.00	37.50	28.36	0.00	192.36	0.00	0.00	1484.4	0.13	1.10	1.10	0.41	3.30	211.1	19771	38.75	2.00	34.89	0.78	41.86	3386	23156	29395
14	25.00	0.00	12.50	23.42	0.00	179.31	0.00	0.00	1578.1	0.11	1.09	1.09	0.40	3.38	194.6	15408	33.50	2.00	28.06	0.86	33.67	2358	17766	26298

Concentrated Loads for Load Case "LOAD 5":

Joint Label	Force X-Dir (lbs)	Force Y-Dir (lbs)	Force Vertical (lbs)	Moment X-Axis (ft-lbs)	Moment Y-Axis (ft-lbs)	Moment Z-Axis (ft-lbs)	Load Comment
67P	1010	0	4200	0	0	0	

67X	1010	0	4200	0	0	0
67XY	1010	0	4200	0	0	0
67Y	1010	0	4200	0	0	0
67P	0	0	2424	0	0	0
67X	0	0	2424	0	0	0
67XY	0	0	-2424	0	0	0
67Y	0	0	-2424	0	0	0
67P	0	0	2424	0	0	0
67X	0	0	2424	0	0	0
67XY	0	0	-2424	0	0	0
67Y	0	0	-2424	0	0	0

Equipment Load Case Information for "LOAD 5":

Equipment Label	Equipment Property Set	Elevation Above Ground (ft)	qzGh (psf)	Ice Thick. (in)	Total Wind Area (ft^2)	Wind Incidence Angle (deg)	222-G CA	222-G CS	222-G CM	Antenna Axial Load FAM (lbs)	Antenna Side Load FSM (lbs)	Antenna Moment MM (ft-lbs)	Long. Load (lbs)	Trans. Load (lbs)	Vert. Load (lbs)
AP-1	ANTENNA PLATFORM	350.00	7.61	2.37	30.00	0.00							228.42	0.00	9600.00
AP-2	ANTENNA PLATFORM	350.00	7.61	2.37	30.00	0.00							228.42	0.00	9600.00
AP-3	ANTENNA PLATFORM	350.00	7.61	2.37	30.00	0.00							228.42	0.00	9600.00
AP-4	ANTENNA PLATFORM	350.00	7.61	2.37	30.00	0.00							228.42	0.00	9600.00
MS-1	MILK STOOL	337.50	7.56	2.37	10.00	0.00							75.56	0.00	1800.00
MS-2	MILK STOOL	337.50	7.56	2.37	10.00	0.00							75.56	0.00	1800.00
MS-3	MILK STOOL	337.50	7.56	2.37	10.00	0.00							75.56	0.00	1800.00
MS-4	MILK STOOL	337.50	7.56	2.37	10.00	0.00							75.56	0.00	1800.00
MS-5	MILK STOOL	325.00	7.50	2.36	10.00	0.00							74.96	0.00	1800.00
MS-6	MILK STOOL	325.00	7.50	2.36	10.00	0.00							74.96	0.00	1800.00
MS-7	MILK STOOL	325.00	7.50	2.36	10.00	0.00							74.96	0.00	1800.00
MS-8	MILK STOOL	325.00	7.50	2.36	10.00	0.00							74.96	0.00	1800.00
DA-1	DA UPPER PLATFORM	350.00	7.61	2.37	31.50	0.00							239.84	0.00	360.00
DA-2	DA UPPER PLATFORM	350.00	7.61	2.37	31.50	0.00							239.84	0.00	360.00
DA-3	DA UPPER PLATFORM	350.00	7.61	2.37	31.50	0.00							239.84	0.00	360.00
DA-4	DA UPPER PLATFORM	350.00	7.61	2.37	31.50	0.00							239.84	0.00	360.00
DA-5	DA LOWER PLATFORM	350.00	7.61	2.37	11.25	0.00							85.66	0.00	60.00
DA-6	DA LOWER PLATFORM	350.00	7.61	2.37	11.25	0.00							85.66	0.00	60.00
DA-7	DA LOWER PLATFORM	350.00	7.61	2.37	11.25	0.00							85.66	0.00	60.00
DA-8	DA LOWER PLATFORM	350.00	7.61	2.37	11.25	0.00							85.66	0.00	60.00
SM-1	SM AT 325 FT	325.00	7.50	2.36	15.00	0.00							112.44	0.00	240.00
SM-2	SM AT 325 FT	325.00	7.50	2.36	15.00	0.00							112.44	0.00	240.00
SM-3	SM AT 325 FT	325.00	7.50	2.36	15.00	0.00							112.44	0.00	240.00
SM-4	SM AT 325 FT	325.00	7.50	2.36	15.00	0.00							112.44	0.00	240.00
SM-5	SM AT 300 FT	300.00	7.37	2.34	30.00	0.00							221.13	0.00	600.00
SM-6	SM AT 300 FT	300.00	7.37	2.34	30.00	0.00							221.13	0.00	600.00
SM-7	SM AT 300 FT	300.00	7.37	2.34	30.00	0.00							221.13	0.00	600.00
SM-8	SM AT 300 FT	300.00	7.37	2.34	30.00	0.00							221.13	0.00	600.00
DA-9	DA AT 302 FT	300.00	7.37	2.34	2.50	0.00							18.43	0.00	24.00
DA-10	DA AT 302 FT	300.00	7.37	2.34	2.50	0.00							18.43	0.00	24.00
DA-11	DA AT 302 FT	300.00	7.37	2.34	2.50	0.00							18.43	0.00	24.00
DA-12	DA AT 302 FT	300.00	7.37	2.34	2.50	0.00							18.43	0.00	24.00
CP-1	CP AT 200 FT	200.00	6.77	2.25	50.00	0.00							338.39	0.00	1200.00
CP-2	CP AT 200 FT	200.00	6.77	2.25	50.00	0.00							338.39	0.00	1200.00
CP-3	CP AT 200 FT	200.00	6.77	2.25	50.00	0.00							338.39	0.00	1200.00
CP-4	CP AT 200 FT	200.00	6.77	2.25	50.00	0.00							338.39	0.00	1200.00

DA-13	DA AT 170 FT	175.00	6.58	2.22	15.00	0.00	98.70	0.00	420.00
DA-14	DA AT 170 FT	175.00	6.58	2.22	15.00	0.00	98.70	0.00	420.00
DA-15	DA AT 170 FT	175.00	6.58	2.22	15.00	0.00	98.70	0.00	420.00
DA-16	DA AT 170 FT	175.00	6.58	2.22	15.00	0.00	98.70	0.00	420.00
SM-9	SM AT 150 FT	150.00	6.37	2.18	15.00	0.00	95.55	0.00	240.00
SM-10	SM AT 150 FT	150.00	6.37	2.18	15.00	0.00	95.55	0.00	240.00
SM-11	SM AT 150 FT	150.00	6.37	2.18	15.00	0.00	95.55	0.00	240.00
SM-12	SM AT 150 FT	150.00	6.37	2.18	15.00	0.00	95.55	0.00	240.00
SM-13	SM AT 125 FT	125.00	6.13	2.14	30.00	0.00	183.91	0.00	600.00
SM-14	SM AT 125 FT	125.00	6.13	2.14	30.00	0.00	183.91	0.00	600.00
SM-15	SM AT 125 FT	125.00	6.13	2.14	30.00	0.00	183.91	0.00	600.00
SM-16	SM AT 125 FT	125.00	6.13	2.14	30.00	0.00	183.91	0.00	600.00
DA-17	DA AT 149 FT	150.00	6.37	2.18	15.00	0.00	95.55	0.00	420.00
DA-18	DA AT 149 FT	150.00	6.37	2.18	15.00	0.00	95.55	0.00	420.00
DA-19	DA AT 149 FT	150.00	6.37	2.18	15.00	0.00	95.55	0.00	420.00
DA-20	DA AT 149 FT	150.00	6.37	2.18	15.00	0.00	95.55	0.00	420.00
DA-21	DA AT 138 FT	141.67	6.29	2.17	10.00	0.00	62.94	0.00	240.00
DA-22	DA AT 138 FT	141.67	6.29	2.17	10.00	0.00	62.94	0.00	240.00
DA-23	DA AT 138 FT	141.67	6.29	2.17	10.00	0.00	62.94	0.00	240.00
DA-24	DA AT 138 FT	141.67	6.29	2.17	10.00	0.00	62.94	0.00	240.00
DA-25	DA AT 119 FT	125.00	6.13	2.14	10.00	0.00	61.30	0.00	240.00
DA-26	DA AT 119 FT	125.00	6.13	2.14	10.00	0.00	61.30	0.00	240.00
DA-27	DA AT 119 FT	125.00	6.13	2.14	10.00	0.00	61.30	0.00	240.00
DA-28	DA AT 119 FT	125.00	6.13	2.14	10.00	0.00	61.30	0.00	240.00
DA-29	DA AT 108 FT	100.00	5.85	2.09	2.00	0.00	11.70	0.00	12.00
DA-30	DA AT 108 FT	100.00	5.85	2.09	2.00	0.00	11.70	0.00	12.00
DA-31	DA AT 108 FT	100.00	5.85	2.09	2.00	0.00	11.70	0.00	12.00
DA-32	DA AT 108 FT	100.00	5.85	2.09	2.00	0.00	11.70	0.00	12.00
DA-33	DA AT 103 FT	100.00	5.85	2.09	2.00	0.00	11.70	0.00	12.00
DA-34	DA AT 103 FT	100.00	5.85	2.09	2.00	0.00	11.70	0.00	12.00
DA-35	DA AT 103 FT	100.00	5.85	2.09	2.00	0.00	11.70	0.00	12.00
DA-36	DA AT 103 FT	100.00	5.85	2.09	2.00	0.00	11.70	0.00	12.00
DA-37	DA AT 54 FT	50.00	5.05	1.95	2.00	0.00	10.11	0.00	12.00
DA-38	DA AT 54 FT	50.00	5.05	1.95	2.00	0.00	10.11	0.00	12.00
DA-39	DA AT 54 FT	50.00	5.05	1.95	2.00	0.00	10.11	0.00	12.00
DA-40	DA AT 54 FT	50.00	5.05	1.95	2.00	0.00	10.11	0.00	12.00
DA-41	DA AT 44 FT	50.00	5.05	1.95	2.50	0.00	12.64	0.00	30.00
DA-42	DA AT 44 FT	50.00	5.05	1.95	2.50	0.00	12.64	0.00	30.00
DA-43	DA AT 44 FT	50.00	5.05	1.95	2.50	0.00	12.64	0.00	30.00
DA-44	DA AT 44 FT	50.00	5.05	1.95	2.50	0.00	12.64	0.00	30.00
S-1	SOI AT 350 FT	350.00	7.61	2.37	30.00	0.00	228.42	0.00	7.20
S-2	SOI AT 350 FT	350.00	7.61	2.37	30.00	0.00	228.42	0.00	7.20
S-3	SOI AT 350 FT	350.00	7.61	2.37	30.00	0.00	228.42	0.00	7.20
S-4	SOI AT 350 FT	350.00	7.61	2.37	30.00	0.00	228.42	0.00	7.20
S-5	SOI AT 140 FT	141.67	6.29	2.17	10.00	0.00	62.94	0.00	240.00
S-6	SOI AT 140 FT	141.67	6.29	2.17	10.00	0.00	62.94	0.00	240.00
S-7	SOI AT 140 FT	141.67	6.29	2.17	10.00	0.00	62.94	0.00	240.00
S-8	SOI AT 140 FT	141.67	6.29	2.17	10.00	0.00	62.94	0.00	240.00
S-9	SOI AT 115-1	116.67	6.04	2.13	5.00	0.00	30.21	0.00	120.00
S-10	SOI AT 115-1	116.67	6.04	2.13	5.00	0.00	30.21	0.00	120.00
S-11	SOI AT 115-1	116.67	6.04	2.13	5.00	0.00	30.21	0.00	120.00
S-12	SOI AT 115-1	116.67	6.04	2.13	5.00	0.00	30.21	0.00	120.00
S-13	SOI AT 115-2	116.67	6.04	2.13	10.00	0.00	60.42	0.00	240.00
S-14	SOI AT 115-2	116.67	6.04	2.13	10.00	0.00	60.42	0.00	240.00
S-15	SOI AT 115-2	116.67	6.04	2.13	10.00	0.00	60.42	0.00	240.00

S-16	SOI AT 115-2	116.67	6.04	2.13	10.00	0.00																60.42	0.00	240.00	

EIA Section Load Case Information for "LOAD 5":

Note: qzGh (adjusted wind pressure) includes: Velocity Pressure Coefficient (Kz), Topographic Factor (Kzt), Gust Effect Factor (Gh), Wind Direction Probability Factor (Kd), Wind Importance Factor (Table 2-3), Wind Load Factor (from Loads/EIA Loads)
Face RR is the minimum round reduction factor for all round angles and appurtenances in the section

Section Label	Z of Top (ft)	Z of Bottom (ft)	Ave. Elev. Above Gnd. (ft)	qzGh (psf)	Ice Thick. (in)	Face AF (ft^2)	Face AR (ft^2)	Face RR*AR (ft^2)	Face AG (ft^2)	Face e	Face DF	Face DR	Face RR	Face CF	Face AE (ft^2)	Face WF (lbs)	NotF AAF (ft^2)	NotF CAF	NotF AAR (ft^2)	NotF CAR	NotF AAR*CAR (ft^2)	NotF WA (lbs)	Total Wind (lbs)	Total Weight (lbs)
1	350.00	325.00	337.50	7.56	2.37	83.56	66.93	43.14	359.4	0.42	1.00	1.00	0.64	2.23	126.7	2136	23.01	2.00	119.66	1.20	143.60	1433	3568	34347
2	325.00	300.00	312.50	7.43	2.35	68.06	69.09	41.44	453.1	0.30	1.00	1.00	0.60	2.58	109.5	2101	23.75	2.00	123.24	1.20	147.89	1453	3553	31482
3	300.00	275.00	287.50	7.31	2.33	71.72	63.52	37.12	546.9	0.25	1.00	1.00	0.58	2.79	108.8	2215	23.75	2.00	128.44	1.20	154.13	1473	3688	32002
4	275.00	250.00	262.50	7.17	2.31	72.74	67.85	39.23	640.6	0.22	1.00	1.00	0.58	2.90	112.0	2325	23.75	2.00	127.44	1.20	152.92	1436	3762	37464
5	250.00	225.00	237.50	7.02	2.28	70.86	53.53	30.50	734.4	0.17	1.00	1.00	0.57	3.12	101.4	2216	23.75	2.00	126.35	1.20	151.61	1397	3613	33374
6	225.00	200.00	212.50	6.85	2.26	73.26	55.13	31.32	828.1	0.16	1.00	1.00	0.57	3.18	104.6	2281	23.75	2.00	136.98	1.20	164.38	1452	3733	36192
7	200.00	175.00	187.50	6.68	2.23	86.85	56.66	32.19	921.9	0.16	1.00	1.00	0.57	3.18	119.0	2526	23.75	2.00	136.54	1.20	163.85	1411	3937	36780
8	175.00	150.00	162.50	6.48	2.20	104.31	79.90	45.66	1015.6	0.18	1.00	1.00	0.57	3.06	150.0	2974	23.75	2.00	141.52	1.20	169.83	1408	4382	45984
9	150.00	125.00	137.50	6.25	2.16	114.68	93.00	53.23	1109.4	0.19	1.00	1.00	0.57	3.04	167.9	3188	23.75	2.00	156.90	1.20	188.28	1475	4663	47685
10	125.00	100.00	112.50	6.00	2.12	139.97	90.65	51.91	1218.8	0.19	1.00	1.00	0.57	3.03	191.9	3482	23.75	2.00	176.67	1.20	212.00	1556	5038	54763
11	100.00	75.00	87.50	5.69	2.07	172.13	97.33	56.05	1296.9	0.21	1.00	1.00	0.58	2.95	228.2	3824	23.75	2.00	188.82	1.20	226.58	1559	5383	53470
12	75.00	50.00	62.50	5.30	2.00	180.20	97.76	56.16	1390.6	0.20	1.00	1.00	0.57	2.98	236.4	3732	23.75	2.00	184.57	1.20	221.48	1425	5157	54541
13	50.00	25.00	37.50	4.76	1.90	192.36	96.42	55.30	1484.4	0.19	1.00	1.00	0.57	3.00	247.7	3539	23.75	2.00	185.68	1.20	222.81	1286	4825	60062
14	25.00	0.00	12.50	3.93	1.70	179.31	71.16	40.45	1578.1	0.16	1.00	1.00	0.57	3.16	219.8	2732	20.50	2.00	137.81	1.20	165.37	811	3542	49747

Concentrated Loads for Load Case "LOAD 6":

Joint Label	Force X-Dir (lbs)	Force Y-Dir (lbs)	Force Vertical (lbs)	Moment X-Axis (ft-lbs)	Moment Y-Axis (ft-lbs)	Moment Z-Axis (ft-lbs)	Load Comment
67P	1010	0	4200	0	0	0	
67X	1010	0	4200	0	0	0	
67XY	1010	0	4200	0	0	0	
67Y	1010	0	4200	0	0	0	
67P	0	0	2424	0	0	0	
67X	0	0	-2424	0	0	0	
67P	0	0	2424	0	0	0	
67X	0	0	-2424	0	0	0	

Equipment Load Case Information for "LOAD 6":

Equipment Label	Equipment Property Set	Elevation Above Ground (ft)	qzGh (psf)	Ice Thick. (in)	Total Wind Area (ft^2)	Wind Incidence Angle (deg)	222-G CA	222-G CS	222-G CM	Antenna Axial Load FAM (lbs)	Antenna Side Load FSM (lbs)	Antenna Moment MM (ft-lbs)	Long. Load (lbs)	Trans. Load (lbs)	Vert. Load (lbs)
AP-1	ANTENNA PLATFORM	350.00	7.61	2.37	30.00	315.00							161.52	161.52	9600.00
AP-2	ANTENNA PLATFORM	350.00	7.61	2.37	30.00	315.00							161.52	161.52	9600.00
AP-3	ANTENNA PLATFORM	350.00	7.61	2.37	30.00	315.00							161.52	161.52	9600.00
AP-4	ANTENNA PLATFORM	350.00	7.61	2.37	30.00	315.00							161.52	161.52	9600.00

MS-1	MILK STOOL	337.50	7.56	2.37	10.00	315.00	53.43	53.43	1800.00
MS-2	MILK STOOL	337.50	7.56	2.37	10.00	315.00	53.43	53.43	1800.00
MS-3	MILK STOOL	337.50	7.56	2.37	10.00	315.00	53.43	53.43	1800.00
MS-4	MILK STOOL	337.50	7.56	2.37	10.00	315.00	53.43	53.43	1800.00
MS-5	MILK STOOL	325.00	7.50	2.36	10.00	315.00	53.01	53.01	1800.00
MS-6	MILK STOOL	325.00	7.50	2.36	10.00	315.00	53.01	53.01	1800.00
MS-7	MILK STOOL	325.00	7.50	2.36	10.00	315.00	53.01	53.01	1800.00
MS-8	MILK STOOL	325.00	7.50	2.36	10.00	315.00	53.01	53.01	1800.00
DA-1	DA UPPER PLATFORM	350.00	7.61	2.37	31.50	315.00	169.60	169.60	360.00
DA-2	DA UPPER PLATFORM	350.00	7.61	2.37	31.50	315.00	169.60	169.60	360.00
DA-3	DA UPPER PLATFORM	350.00	7.61	2.37	31.50	315.00	169.60	169.60	360.00
DA-4	DA UPPER PLATFORM	350.00	7.61	2.37	31.50	315.00	169.60	169.60	360.00
DA-5	DA LOWER PLATFORM	350.00	7.61	2.37	11.25	315.00	60.57	60.57	60.00
DA-6	DA LOWER PLATFORM	350.00	7.61	2.37	11.25	315.00	60.57	60.57	60.00
DA-7	DA LOWER PLATFORM	350.00	7.61	2.37	11.25	315.00	60.57	60.57	60.00
DA-8	DA LOWER PLATFORM	350.00	7.61	2.37	11.25	315.00	60.57	60.57	60.00
SM-1	SM AT 325 FT	325.00	7.50	2.36	15.00	315.00	79.51	79.51	240.00
SM-2	SM AT 325 FT	325.00	7.50	2.36	15.00	315.00	79.51	79.51	240.00
SM-3	SM AT 325 FT	325.00	7.50	2.36	15.00	315.00	79.51	79.51	240.00
SM-4	SM AT 325 FT	325.00	7.50	2.36	15.00	315.00	79.51	79.51	240.00
SM-5	SM AT 300 FT	300.00	7.37	2.34	30.00	315.00	156.36	156.36	600.00
SM-6	SM AT 300 FT	300.00	7.37	2.34	30.00	315.00	156.36	156.36	600.00
SM-7	SM AT 300 FT	300.00	7.37	2.34	30.00	315.00	156.36	156.36	600.00
SM-8	SM AT 300 FT	300.00	7.37	2.34	30.00	315.00	156.36	156.36	600.00
DA-9	DA AT 302 FT	300.00	7.37	2.34	2.50	315.00	13.03	13.03	24.00
DA-10	DA AT 302 FT	300.00	7.37	2.34	2.50	315.00	13.03	13.03	24.00
DA-11	DA AT 302 FT	300.00	7.37	2.34	2.50	315.00	13.03	13.03	24.00
DA-12	DA AT 302 FT	300.00	7.37	2.34	2.50	315.00	13.03	13.03	24.00
CP-1	CP AT 200 FT	200.00	6.77	2.25	50.00	315.00	239.28	239.28	1200.00
CP-2	CP AT 200 FT	200.00	6.77	2.25	50.00	315.00	239.28	239.28	1200.00
CP-3	CP AT 200 FT	200.00	6.77	2.25	50.00	315.00	239.28	239.28	1200.00
CP-4	CP AT 200 FT	200.00	6.77	2.25	50.00	315.00	239.28	239.28	1200.00
DA-13	DA AT 170 FT	175.00	6.58	2.22	15.00	315.00	69.79	69.79	420.00
DA-14	DA AT 170 FT	175.00	6.58	2.22	15.00	315.00	69.79	69.79	420.00
DA-15	DA AT 170 FT	175.00	6.58	2.22	15.00	315.00	69.79	69.79	420.00
DA-16	DA AT 170 FT	175.00	6.58	2.22	15.00	315.00	69.79	69.79	420.00
SM-9	SM AT 150 FT	150.00	6.37	2.18	15.00	315.00	67.57	67.57	240.00
SM-10	SM AT 150 FT	150.00	6.37	2.18	15.00	315.00	67.57	67.57	240.00
SM-11	SM AT 150 FT	150.00	6.37	2.18	15.00	315.00	67.57	67.57	240.00
SM-12	SM AT 150 FT	150.00	6.37	2.18	15.00	315.00	67.57	67.57	240.00
SM-13	SM AT 125 FT	125.00	6.13	2.14	30.00	315.00	130.04	130.04	600.00
SM-14	SM AT 125 FT	125.00	6.13	2.14	30.00	315.00	130.04	130.04	600.00
SM-15	SM AT 125 FT	125.00	6.13	2.14	30.00	315.00	130.04	130.04	600.00
SM-16	SM AT 125 FT	125.00	6.13	2.14	30.00	315.00	130.04	130.04	600.00
DA-17	DA AT 149 FT	150.00	6.37	2.18	15.00	315.00	67.57	67.57	420.00
DA-18	DA AT 149 FT	150.00	6.37	2.18	15.00	315.00	67.57	67.57	420.00
DA-19	DA AT 149 FT	150.00	6.37	2.18	15.00	315.00	67.57	67.57	420.00
DA-20	DA AT 149 FT	150.00	6.37	2.18	15.00	315.00	67.57	67.57	420.00
DA-21	DA AT 138 FT	141.67	6.29	2.17	10.00	315.00	44.50	44.50	240.00
DA-22	DA AT 138 FT	141.67	6.29	2.17	10.00	315.00	44.50	44.50	240.00
DA-23	DA AT 138 FT	141.67	6.29	2.17	10.00	315.00	44.50	44.50	240.00
DA-24	DA AT 138 FT	141.67	6.29	2.17	10.00	315.00	44.50	44.50	240.00
DA-25	DA AT 119 FT	125.00	6.13	2.14	10.00	315.00	43.35	43.35	240.00
DA-26	DA AT 119 FT	125.00	6.13	2.14	10.00	315.00	43.35	43.35	240.00
DA-27	DA AT 119 FT	125.00	6.13	2.14	10.00	315.00	43.35	43.35	240.00

DA-28	DA AT 119 FT	125.00	6.13	2.14	10.00	315.00	43.35	43.35	240.00
DA-29	DA AT 108 FT	100.00	5.85	2.09	2.00	315.00	8.27	8.27	12.00
DA-30	DA AT 108 FT	100.00	5.85	2.09	2.00	315.00	8.27	8.27	12.00
DA-31	DA AT 108 FT	100.00	5.85	2.09	2.00	315.00	8.27	8.27	12.00
DA-32	DA AT 108 FT	100.00	5.85	2.09	2.00	315.00	8.27	8.27	12.00
DA-33	DA AT 103 FT	100.00	5.85	2.09	2.00	315.00	8.27	8.27	12.00
DA-34	DA AT 103 FT	100.00	5.85	2.09	2.00	315.00	8.27	8.27	12.00
DA-35	DA AT 103 FT	100.00	5.85	2.09	2.00	315.00	8.27	8.27	12.00
DA-36	DA AT 103 FT	100.00	5.85	2.09	2.00	315.00	8.27	8.27	12.00
DA-37	DA AT 54 FT	50.00	5.05	1.95	2.00	315.00	7.15	7.15	12.00
DA-38	DA AT 54 FT	50.00	5.05	1.95	2.00	315.00	7.15	7.15	12.00
DA-39	DA AT 54 FT	50.00	5.05	1.95	2.00	315.00	7.15	7.15	12.00
DA-40	DA AT 54 FT	50.00	5.05	1.95	2.00	315.00	7.15	7.15	12.00
DA-41	DA AT 44 FT	50.00	5.05	1.95	2.50	315.00	8.94	8.94	30.00
DA-42	DA AT 44 FT	50.00	5.05	1.95	2.50	315.00	8.94	8.94	30.00
DA-43	DA AT 44 FT	50.00	5.05	1.95	2.50	315.00	8.94	8.94	30.00
DA-44	DA AT 44 FT	50.00	5.05	1.95	2.50	315.00	8.94	8.94	30.00
S-1	SOI AT 350 FT	350.00	7.61	2.37	30.00	315.00	161.52	161.52	7.20
S-2	SOI AT 350 FT	350.00	7.61	2.37	30.00	315.00	161.52	161.52	7.20
S-3	SOI AT 350 FT	350.00	7.61	2.37	30.00	315.00	161.52	161.52	7.20
S-4	SOI AT 350 FT	350.00	7.61	2.37	30.00	315.00	161.52	161.52	7.20
S-5	SOI AT 140 FT	141.67	6.29	2.17	10.00	315.00	44.50	44.50	240.00
S-6	SOI AT 140 FT	141.67	6.29	2.17	10.00	315.00	44.50	44.50	240.00
S-7	SOI AT 140 FT	141.67	6.29	2.17	10.00	315.00	44.50	44.50	240.00
S-8	SOI AT 140 FT	141.67	6.29	2.17	10.00	315.00	44.50	44.50	240.00
S-9	SOI AT 115-1	116.67	6.04	2.13	5.00	315.00	21.36	21.36	120.00
S-10	SOI AT 115-1	116.67	6.04	2.13	5.00	315.00	21.36	21.36	120.00
S-11	SOI AT 115-1	116.67	6.04	2.13	5.00	315.00	21.36	21.36	120.00
S-12	SOI AT 115-1	116.67	6.04	2.13	5.00	315.00	21.36	21.36	120.00
S-13	SOI AT 115-2	116.67	6.04	2.13	10.00	315.00	42.72	42.72	240.00
S-14	SOI AT 115-2	116.67	6.04	2.13	10.00	315.00	42.72	42.72	240.00
S-15	SOI AT 115-2	116.67	6.04	2.13	10.00	315.00	42.72	42.72	240.00
S-16	SOI AT 115-2	116.67	6.04	2.13	10.00	315.00	42.72	42.72	240.00

EIA Section Load Case Information for "LOAD 6":

Note: qzGh (adjusted wind pressure) includes: Velocity Pressure Coefficient (Kz), Topographic Factor (Kzt), Gust Effect Factor (Gh), Wind Direction Probability Factor (Kd), Wind Importance Factor (Table 2-3), Wind Load Factor (from Loads/EIA Loads)
Face RR is the minimum round reduction factor for all round angles and appurtenances in the section

Section Label	Z of Top (ft)	Z of Bottom (ft)	Ave. Elev. Above Gnd. (ft)	qzGh (psf)	Ice Thick. (in)	Face AF (ft^2)	Face AR (ft^2)	Face RR*AR (ft^2)	Face AG (ft^2)	Face e	Face DF	Face DR	Face RR	Face CF	Face AE (ft^2)	Face WF (lbs)	NotF AAF (ft^2)	NotF CAF	NotF AAR (ft^2)	NotF CAR	NotF AAR*CAR (ft^2)	NotF WA (lbs)	Total Wind (lbs)	Total Weight (lbs)
1	350.00	325.00	337.50	7.56	2.37	83.56	66.93	43.14	359.4	0.42	1.20	1.20	0.64	2.23	152.0	2563	23.01	2.00	119.66	1.20	143.60	1433	3995	34347
2	325.00	300.00	312.50	7.43	2.35	68.06	69.09	41.44	453.1	0.30	1.20	1.20	0.60	2.58	131.4	2521	23.75	2.00	123.24	1.20	147.89	1453	3974	31482
3	300.00	275.00	287.50	7.31	2.33	71.72	63.52	37.12	546.9	0.25	1.19	1.19	0.58	2.79	129.0	2626	23.75	2.00	128.44	1.20	154.13	1473	4098	32002
4	275.00	250.00	262.50	7.17	2.31	72.74	67.85	39.23	640.6	0.22	1.16	1.16	0.58	2.90	130.4	2708	23.75	2.00	127.44	1.20	152.92	1436	4145	37464
5	250.00	225.00	237.50	7.02	2.28	70.86	53.53	30.50	734.4	0.17	1.13	1.13	0.57	3.12	114.2	2497	23.75	2.00	126.35	1.20	151.61	1397	3895	33374
6	225.00	200.00	212.50	6.85	2.26	73.26	55.13	31.32	828.1	0.16	1.12	1.12	0.57	3.18	116.7	2546	23.75	2.00	136.98	1.20	164.38	1452	3998	36192
7	200.00	175.00	187.50	6.68	2.23	86.85	56.66	32.19	921.9	0.16	1.12	1.12	0.57	3.18	132.9	2821	23.75	2.00	136.54	1.20	163.85	1411	4232	36780
8	175.00	150.00	162.50	6.48	2.20	104.31	79.90	45.66	1015.6	0.18	1.14	1.14	0.57	3.06	170.4	3379	23.75	2.00	141.52	1.20	169.83	1408	4787	45984
9	150.00	125.00	137.50	6.25	2.16	114.68	93.00	53.23	1109.4	0.19	1.14	1.14	0.57	3.04	191.5	3636	23.75	2.00	156.90	1.20	188.28	1475	5110	47685
10	125.00	100.00	112.50	6.00	2.12	139.97	90.65	51.91	1218.8	0.19	1.14	1.14	0.57	3.03	219.1	3976	23.75	2.00	176.67	1.20	212.00	1556	5532	54763
11	100.00	75.00	87.50	5.69	2.07	172.13	97.33	56.05	1296.9	0.21	1.16	1.16	0.58	2.95	263.7	4420	23.75	2.00	188.82	1.20	226.58	1559	5978	53470

12	75.00	50.00	62.50	5.30	2.00	180.20	97.76	56.16	1390.6	0.20	1.15	1.15	0.57	2.98	271.8	4292	23.75	2.00	184.57	1.20	221.48	1425	5717	54541
13	50.00	25.00	37.50	4.76	1.90	192.36	96.42	55.30	1484.4	0.19	1.15	1.15	0.57	3.00	283.8	4056	23.75	2.00	185.68	1.20	222.81	1286	5342	60062
14	25.00	0.00	12.50	3.93	1.70	179.31	71.16	40.45	1578.1	0.16	1.12	1.12	0.57	3.16	245.9	3057	20.50	2.00	137.81	1.20	165.37	811	3868	49747

*** Analysis Results:

Summary of Joint Support Reactions For All Load Cases:

Load Case	Joint Label	Long. Force (kips)	Tran. Force (kips)	Vert. Force (kips)	Shear Force (kips)	Tran. Moment (ft-k)	Long. Moment (ft-k)	Vert. Moment (ft-k)	Bending Moment (ft-k)	Found. Usage %
LOAD 1	1P	-87.63	-42.93	533.52	97.58	-17.27	-30.94	-91.46	35.43	0.00
LOAD 1	1X	-87.63	42.93	533.52	97.58	17.27	-30.94	91.46	35.43	0.00
LOAD 1	1XY	-65.66	-20.96	-319.98	68.93	-14.39	-33.83	91.55	36.76	0.00
LOAD 1	1Y	-65.66	20.96	-319.98	68.93	14.39	-33.83	-91.55	36.76	0.00
LOAD 2	1P	-84.89	-40.18	506.83	93.92	-16.91	-31.30	-91.47	35.58	0.00
LOAD 2	1X	-84.89	40.18	506.83	93.92	16.91	-31.30	91.47	35.58	0.00
LOAD 2	1XY	-68.41	-23.71	-346.67	72.40	-14.75	-33.47	91.54	36.57	0.00
LOAD 2	1Y	-68.41	23.71	-346.67	72.40	14.75	-33.47	-91.54	36.57	0.00
LOAD 3	1P	-91.73	-91.50	735.85	129.56	10.97	-11.17	-0.58	15.66	0.00
LOAD 3	1X	-45.42	-21.66	117.18	50.32	37.68	-34.82	137.63	51.30	0.00
LOAD 3	1XY	-69.76	-69.53	-522.31	98.49	13.85	-14.05	0.68	19.73	0.00
LOAD 3	1Y	-23.45	-43.63	96.36	49.53	34.80	-37.70	-137.73	51.31	0.00
LOAD 4	1P	-88.98	-88.75	709.16	125.68	11.33	-11.53	-0.59	16.16	0.00
LOAD 4	1X	-42.67	-24.41	90.48	49.16	37.32	-35.18	137.64	51.29	0.00
LOAD 4	1XY	-72.51	-72.27	-549.00	102.37	13.49	-13.69	0.67	19.22	0.00
LOAD 4	1Y	-26.20	-40.88	69.67	48.56	35.16	-37.34	-137.71	51.29	0.00
LOAD 5	1P	-35.58	-25.32	279.86	43.67	-5.72	-5.23	-20.78	7.75	0.00
LOAD 5	1X	-35.58	25.32	279.86	43.67	5.72	-5.23	20.78	7.75	0.00
LOAD 5	1XY	-0.70	9.57	69.52	9.59	-1.56	-9.39	20.88	9.52	0.00
LOAD 5	1Y	-0.70	-9.57	69.52	9.59	1.56	-9.39	-20.88	9.52	0.00
LOAD 6	1P	-36.97	-36.74	328.60	52.12	0.68	-0.87	-0.31	1.10	0.00
LOAD 6	1X	-26.23	10.45	185.10	28.23	10.51	-6.36	32.05	12.28	0.00
LOAD 6	1XY	-2.08	-1.85	20.78	2.79	4.84	-5.03	0.41	6.98	0.00
LOAD 6	1Y	8.66	-24.44	164.28	25.92	6.35	-10.52	-32.15	12.29	0.00

Group Summary (Compression Portion):

Group Label	Group Desc.	Angle Type	Angle Size	Steel Strength (ksi)	Max Usage %	Max Use In Comp. %	Comp. Control Member	Comp. Force (kips)	Comp. Control Load Case	L/R Capacity (kips)	Comp. Conn. Shear Capacity (kips)	Comp. Conn. Bearing Capacity (kips)	RLX	RLY	RLZ	L/R Length Comp. Member (ft)	Curve No.	No. Of Bolts Comp.
L1	LEG	BUS	8X8X3/4+2L8X4X3/4	33.0	80.26	80.26	g154X	-665.005	LOAD 3	828.561	0.000	0.000	0.167	0.167	0.167	16.79	25.140	1	0
L2	LEG	BUS	8X8X3/4+2L8X4X1/2+L4X4X5/8	33.0	77.68	77.68	g140X	-601.237	LOAD 3	774.007	0.000	0.000	0.333	0.333	0.333	33.49	25.140	1	0
L3	LEG	BUS	8X8X5/8+2L8X4X1/2+L4X4X5/8	33.0	74.66	74.66	g128X	-540.295	LOAD 3	723.644	0.000	0.000	0.333	0.333	0.333	33.49	25.140	1	0
L4	LEG	BUS	8X8X1/2+2L8X4X1/2+L4X4X5/8	33.0	71.66	71.66	g416X	-481.084	LOAD 3	671.312	0.000	0.000	0.333	0.333	0.333	33.49	25.140	1	0
L5	LEG	BUS	8X8X1.125+2PL6X3/8	33.0	65.20	65.20	g1X	-376.174	LOAD 3	576.974	0.000	0.000	0.220	0.220	0.220	42.55	25.140	1	0
L6	LEG	SAE	8X8X1.125	33.0	70.19	70.19	g57X	-331.656	LOAD 3	472.490	0.000	0.000	0.167	0.167	0.167	32.30	25.140	1	0
L7	LEG	SAE	8X8X1.125	33.0	71.64	71.64	g113X	-291.413	LOAD 3	406.760	0.000	0.000	0.333	0.333	0.333	64.40	25.140	1	0
L8	LEG	SAE	8X8X1	33.0	66.27	66.27	g169X	-280.723	LOAD 3	423.631	0.000	0.000	0.167	0.167	0.167	32.30	25.140	1	0
L9	LEG	SAE	8X8X0.875	33.0	63.06	63.06	g194X	-235.770	LOAD 3	373.882	0.000	0.000	0.167	0.167	0.167	32.09	25.140	1	0
L10	LEG	SAE	8X8X0.75	33.0	59.22	59.22	g219X	-191.566	LOAD 3	323.499	0.000	0.000	0.167	0.167	0.167	31.89	25.140	1	0

L11	LEG	SAE	6X6X0.875	33.0	61.48	61.48	g244X	-168.967	LOAD 3	274.851	0.000	0.000	0.250	0.250	0.250	32.23	12.570	1	0					
L12	LEG	SAE	6X6X0.875	33.0	52.97	52.97	g269X	-145.593	LOAD 3	274.851	0.000	0.000	0.250	0.250	0.250	32.23	12.570	1	0					
L13	LEG	SAE	6X6X0.75	33.0	51.57	51.57	g294X	-122.953	LOAD 3	238.411	0.000	0.000	0.250	0.250	0.250	32.23	12.570	1	0					
L14	LEG	SAE	6X6X0.75	33.0	48.11	48.11	g319X	-98.675	LOAD 3	205.121	0.000	0.000	0.500	0.500	0.500	64.46	12.570	1	0					
L15	LEG	SAE	6X6X0.625	33.0	41.90	41.90	g344X	-84.217	LOAD 3	201.011	0.000	0.000	0.250	0.250	0.250	31.96	12.570	1	0					
L16	LEG	SAE	6X6X0.625	33.0	37.29	37.29	g362X	-64.648	LOAD 3	173.383	0.000	0.000	0.500	0.500	0.500	63.92	12.570	1	0					
L17	LEG	SAE	6X6X0.5	33.0	30.92	30.92	g380X	-43.360	LOAD 3	140.219	0.000	0.000	0.500	0.500	0.500	63.92	12.570	1	0					
L18	LEG	SAE	6X6X0.5	33.0	17.72	17.72	g398X	-24.852	LOAD 3	140.219	0.000	0.000	0.500	0.500	0.500	63.92	12.570	1	0					
D1A	DIA	DAS	5X3.5X0.375	36.0	91.89	91.89	g156P	-68.106	LOAD 1	74.120	0.000	0.000	0.500	1.000	0.500	141.26	24.015	5	0					
D1B	DIA	DAL	5X3.5X0.4375	36.0	88.47	88.47	g160P	-75.022	LOAD 1	84.803	0.000	0.000	1.000	1.000	1.000	142.31	17.433	5	0					
D1C	DIA	DAL	4X3X0.3125	33.0	22.52	22.52	g163P	-20.153	LOAD 2	89.490	0.000	0.000	0.500	0.500	0.500	82.36	17.433	1	0					
D2A	**DIA**	**DAS**	**4X3.5X0.3125**	**36.0**	**137.73**	**137.73**	**g143P**	**-67.933**	**LOAD 1**	**49.323**	**0.000**	**0.000**	**0.500**	**1.000**	**0.500**	**150.67**	**23.353**	**5**	**0**	**NG**				
D2B	DIA	DAL	4X3.5X0.375	36.0	98.14	98.14	g146P	-73.618	LOAD 1	75.015	0.000	0.000	0.500	1.000	0.500	127.81	16.616	5	0					
D2C	DIA	DAL	3.5X3X0.25	33.0	57.16	57.16	g150P	-19.812	LOAD 2	34.659	0.000	0.000	0.500	1.000	0.500	149.92	16.616	5	0					
D3A	**DIA**	**DAS**	**4X3.5X0.3125**	**36.0**	**125.32**	**125.32**	**g131P**	**-64.627**	**LOAD 1**	**51.570**	**0.000**	**0.000**	**0.500**	**1.000**	**0.500**	**146.52**	**22.710**	**5**	**0**	**NG**				
D3B	**DIA**	**DAL**	**4X3.5X0.3125**	**36.0**	**103.49**	**103.49**	**g134P**	**-68.872**	**LOAD 1**	**66.552**	**0.000**	**0.000**	**0.500**	**1.000**	**0.500**	**122.42**	**15.812**	**5**	**0**					
D3C	DIA	DAL	3.5X2.5X0.25	33.0	73.77	73.77	g139P	-18.462	LOAD 2	25.026	0.000	0.000	0.500	1.000	0.500	174.07	15.811	5	0					
D4A	**DIA**	**DAS**	**4X3X0.3125**	**36.0**	**132.69**	**132.69**	**g420P**	**-61.743**	**LOAD 1**	**46.530**	**0.000**	**0.000**	**0.500**	**1.000**	**0.500**	**149.42**	**22.089**	**5**	**0**	**NG**				
D4B	DIA	DAL	4X3X0.5	36.0	76.45	76.45	g429P	-64.440	LOAD 1	84.291	0.000	0.000	0.500	1.000	0.500	135.55	15.023	5	0					
D4C	DIA	DAL	3.5X2.5X0.25	33.0	62.70	62.70	g436P	-17.063	LOAD 2	27.212	0.000	0.000	0.500	1.000	0.500	165.39	15.023	5	0					
D5A	**DIA**	**DAS**	**4X3X0.3125**	**36.0**	**104.26**	**104.26**	**g2X**	**-71.564**	**LOAD 3**	**68.641**	**0.000**	**0.000**	**0.333**	**0.900**	**0.330**	**113.62**	**20.304**	**1**	**0**	**NG**				
D5B	DIA	DAL	3X2.5X0.3125	36.0	99.69	99.69	g13P	-44.483	LOAD 1	44.621	0.000	0.000	1.000	1.000	1.000	129.76	10.132	5	0					
D5C	DIA	DAL	3.5X3X0.375	36.0	69.54	69.54	g22Y	-46.133	LOAD 2	66.344	0.000	0.000	1.000	1.000	1.000	124.97	11.351	5	0					
D5D	**DIA**	**DAL**	**2.5X2X0.25**	**33.0**	**224.44**	**224.44**	**g25X**	**-45.858**	**LOAD 4**	**20.432**	**0.000**	**0.000**	**0.500**	**1.000**	**0.500**	**163.86**	**12.768**	**5**	**0**	**NG**				
D6A	**DIA**	**DAS**	**4X3X0.3125**	**36.0**	**100.04**	**100.04**	**g65P**	**-61.411**	**LOAD 1**	**61.389**	**0.000**	**0.000**	**0.333**	**1.000**	**0.333**	**123.35**	**19.839**	**5**	**0**					
D6B	DIA	DAL	3.5X2.5X0.25	36.0	80.50	80.50	g69P	-40.070	LOAD 1	49.777	0.000	0.000	1.000	1.000	1.000	109.25	9.924	1	0					
D6C	DIA	DAL	3.5X3X0.3125	36.0	69.99	69.99	g77Y	-41.379	LOAD 2	59.122	0.000	0.000	1.000	1.000	1.000	119.50	10.954	1	0					
D6D	**DIA**	**DAL**	**2.5X2X0.25**	**33.0**	**157.06**	**157.06**	**g85X**	**-34.795**	**LOAD 3**	**22.154**	**0.000**	**0.000**	**0.500**	**1.000**	**0.500**	**155.88**	**12.146**	**5**	**0**	**NG**				
D7A	DIA	DAS	4X3X0.3125	36.0	90.65	90.65	g117P	-57.132	LOAD 1	63.025	0.000	0.000	0.333	1.000	0.333	120.66	19.406	5	0					
D7B	DIA	DAL	3.5X2.5X0.25	36.0	72.00	72.00	g125P	-36.846	LOAD 1	51.176	0.000	0.000	1.000	1.000	1.000	106.82	9.703	1	0					
D7C	DIA	DAL	3.5X3X0.3125	36.0	59.45	59.45	g133Y	-37.059	LOAD 2	62.340	0.000	0.000	1.000	1.000	1.000	115.21	10.561	1	0					
D7D	DIA	DAE	2.5X2.5X0.25	36.0	65.27	65.27	g137X	-24.618	LOAD 3	37.714	0.000	0.000	0.500	1.000	0.500	116.56	11.559	1	0					
D8	DIA	DAS	4X3X0.375	36.0	63.43	63.43	g174X	-37.202	LOAD 1	58.652	0.000	0.000	0.333	0.667	0.333	144.04	31.684	5	0					
D9	DIA	DAS	3.5X3X0.3125	36.0	76.14	76.14	g198P	-33.515	LOAD 1	44.018	0.000	0.000	0.333	0.667	0.333	147.42	30.574	5	0					
D10	DIA	DAS	3.5X3X0.3125	36.0	70.62	70.62	g223P	-32.831	LOAD 1	46.488	0.000	0.000	0.333	0.667	0.333	142.44	29.541	5	0					
D11	DIA	DAS	3.5X2.5X0.25	36.0	65.86	65.86	g248P	-20.569	LOAD 1	31.230	0.000	0.000	0.500	1.000	0.500	151.89	18.606	5	0					
D12	DIA	DAS	3.5X2.5X0.25	36.0	64.57	64.57	g273P	-21.404	LOAD 1	33.149	0.000	0.000	0.500	1.000	0.500	146.32	17.925	5	0					
D13	DIA	DAS	3X2.5X0.25	36.0	62.53	62.53	g298P	-19.654	LOAD 1	31.431	0.000	0.000	0.500	1.000	0.500	142.90	17.267	5	0					
D14	DIA	DAS	3X2.5X0.25	36.0	62.72	62.72	g323P	-20.912	LOAD 1	33.340	0.000	0.000	0.500	1.000	0.500	137.68	16.636	5	0					
D15	DIA	DAL	3X2X0.25	36.0	48.89	48.89	g348P	-12.389	LOAD 1	25.339	0.000	0.000	0.500	0.500	0.500	153.63	22.815	5	0					
D16	DIA	DAL	3X2.5X0.25	36.0	38.23	38.23	g366P	-13.105	LOAD 1	34.278	0.000	0.000	0.500	0.500	0.500	135.07	21.273	5	0					
D17	DIA	SAS	3.5X3X0.25	33.0	87.21	87.21	g384P	-10.391	LOAD 1	11.915	0.000	0.000	0.500	0.500	0.500	188.17	19.789	5	0					
D18	DIA	SAE	3.5X3.5X0.25	33.0	58.76	58.76	g402X	-10.015	LOAD 1	17.045	0.000	0.000	0.500	0.500	0.500	158.87	18.376	5	0					
H1A	HOR	DAL	5X3.5X0.375	33.0	71.87	71.87	g165Y	-60.528	LOAD 2	84.218	0.000	0.000	0.250	0.500	0.250	125.86	30.625	4	0					
H2A	HOR	DAL	4X3X0.3125	33.0	59.47	59.47	g152Y	-59.093	LOAD 2	99.373	0.000	0.000	0.250	0.250	0.250	67.91	28.750	1	0					
H3A	HOR	DAL	3.5X3X0.3125	33.0	94.28	94.28	g136Y	-54.436	LOAD 2	57.738	0.000	0.000	0.250	0.500	0.250	119.44	26.875	1	0					
H4A	HOR	DAL	3.5X3X0.3125	33.0	54.59	54.59	g444Y	-50.139	LOAD 2	91.841	0.000	0.000	0.250	0.250	0.250	68.18	25.000	1	0					
H5A	HOR	DAL	3.5X3X0.3125	33.0	83.09	83.09	g33Y	-67.848	LOAD 4	81.662	0.000	0.000	0.500	0.500	0.500	84.16	15.430	1	0					
H5B	**HOR**	**DAS**	**4X3.5X0.3125**	**36.0**	**103.76**	**103.76**	**g48X**	**-55.289**	**LOAD 4**	**53.284**	**0.000**	**0.000**	**0.950**	**1.500**	**0.950**	**143.53**	**13.472**	**5**	**0**					
H6A	HOR	DAL	3.5X3X0.3125	33.0	55.43	55.43	g89Y	-47.756	LOAD 4	86.163	0.000	0.000	0.500	0.500	0.500	77.27	14.167	1	0					
H6B	HOR	DAS	4X3X0.3125	36.0	96.71	96.71	g105X	-40.377	LOAD 3	41.751	0.000	0.000	0.950	1.500	0.950	159.83	12.436	5	0					
H7A	HOR	DAE	3X3X0.3125	33.0	64.51	64.51	g149Y	-37.645	LOAD 2	58.356	0.000	0.000	0.500	1.000	0.500	110.71	12.917	1	0					
H7B	HOR	DAS	3.5X3X0.3125	36.0	65.04	65.04	g159X	-27.546	LOAD 3	42.355	0.000	0.000	1.000	1.500	1.000	151.01	11.389	5	0					
H8	HOR	DAL	3.5X2.5X0.3125	33.0	29.28	29.28	g181Y	-19.889	LOAD 2	67.924	0.000	0.000	0.500	0.500	0.500	95.45	17.500	1	0					
H9	HOR	DAL	3X2.5X0.25	33.0	66.31	66.31	g206Y	-16.392	LOAD 2	24.718	0.000	0.000	0.500	1.000	0.500	165.93	15.625	5	0					

H10	HOR	DAL	3X2.5X0.25	33.0	49.84	49.84	g231Y	-15.138	LOAD 2	30.372	0.000	0.000	0.500	1.000	0.500	146.02	13.750	5	0
H11	HOR	DAE	2.5X2.5X0.25	33.0	42.51	42.51	g257Y	-13.787	LOAD 2	32.436	0.000	0.000	0.500	1.000	0.500	129.20	12.813	5	0
H12	HOR	DAE	2.5X2.5X0.25	33.0	37.65	37.65	g281Y	-13.323	LOAD 2	35.384	0.000	0.000	0.500	1.000	0.500	119.75	11.875	1	0
H13	HOR	DAE	2.5X2.5X0.25	33.0	31.25	31.25	g306Y	-12.281	LOAD 2	39.299	0.000	0.000	0.500	1.000	0.500	110.29	10.938	1	0
H14	HOR	DAL	3X2.5X0.25	33.0	30.04	30.04	g331XY	-10.992	LOAD 2	36.589	0.000	0.000	1.000	1.000	1.000	126.98	10.000	5	0
H15	HOR	DAL	3X2.5X0.25	33.0	14.10	14.10	g356Y	-2.728	LOAD 2	19.341	0.000	0.000	0.500	1.000	0.500	192.48	18.125	5	0
H16	HOR	DAL	3X2.5X0.25	33.0	5.59	3.85	g370Y	-1.797	LOAD 2	46.732	0.000	0.000	0.500	0.500	0.500	103.17	16.250	1	0
H17	HOR	DAL	3.5X3X0.3125	33.0	3.14	1.57	g388Y	-0.840	LOAD 2	53.446	0.000	0.000	0.500	1.000	0.500	127.78	14.375	5	0
H18	HOR	CHN	C15 x 33.9	33.0	0.20	0.20	g406Y	-0.414	LOAD 2	212.207	0.000	0.000	0.500	0.500	0.500	82.96	12.500	1	0
R1	RUD	SAE	3X3X0.25	33.0	20.16	20.16	g235Y	-1.688	LOAD 3	8.375	0.000	0.000	0.500	0.500	0.500	197.08	19.445	4	0

Group Summary (Tension Portion):

Group Label	Group Desc.	Angle Type	Angle Size	Steel Strength (ksi)	Max Usage %	Max Use In Tens. %	Tension Control Member	Tension Force (kips)	Tension Control Load Case	Net Section Capacity (kips)	Conn. Tens. Shear Capacity (kips)	Conn. Tens. Bearing Capacity (kips)	Conn. Tens. Rupture Capacity (kips)	Length Tens. Member (ft)	No. Of Bolts Tens.	No. Of Holes	Hole Diameter (in)	
L1	LEG	BUS	8X8X3/4+2L8X4X3/4	33.0	80.26	58.54	g154Y	491.675	LOAD 4	839.915	0.000	0.000	0.000	25.140	0	0.000	0	
L2	LEG	BUS	8X8X3/4+2L8X4X1/2+L4X4X5/8	33.0	77.68	54.45	g140Y	444.907	LOAD 4	817.046	0.000	0.000	0.000	25.140	0	0.000	0	
L3	LEG	BUS	8X8X5/8+2L8X4X1/2+L4X4X5/8	33.0	74.66	52.27	g128Y	399.248	LOAD 4	763.883	0.000	0.000	0.000	25.140	0	0.000	0	
L4	LEG	BUS	8X8X1/2+2L8X4X1/2+L4X4X5/8	33.0	71.66	49.91	g416Y	353.662	LOAD 4	708.641	0.000	0.000	0.000	25.140	0	0.000	0	
L5	LEG	BUS	8X8X1.125+2PL6X3/8	33.0	65.20	41.98	g1Y	264.310	LOAD 4	629.639	0.000	0.000	0.000	25.140	0	0.000	0	
L6	LEG	SAE	8X8X1.125	33.0	70.19	48.03	g57Y	238.639	LOAD 4	496.880	0.000	0.000	0.000	25.140	0	0.000	0	
L7	LEG	SAE	8X8X1.125	33.0	71.64	43.24	g113Y	214.847	LOAD 4	496.880	0.000	0.000	0.000	25.140	0	0.000	0	
L8	LEG	SAE	8X8X1	33.0	66.27	46.41	g169Y	206.763	LOAD 4	445.499	0.000	0.000	0.000	25.140	0	0.000	0	
L9	LEG	SAE	8X8X0.875	33.0	63.06	43.63	g194Y	171.448	LOAD 4	392.930	0.000	0.000	0.000	25.140	0	0.000	0	
L10	LEG	SAE	8X8X0.75	33.0	59.22	39.43	g219Y	133.986	LOAD 4	339.767	0.000	0.000	0.000	25.140	0	0.000	0	
L11	LEG	SAE	6X6X0.875	33.0	61.48	40.02	g244Y	115.641	LOAD 4	288.981	0.000	0.000	0.000	12.570	0	0.000	0	
L12	LEG	SAE	6X6X0.875	33.0	52.97	33.12	g269Y	95.715	LOAD 4	288.981	0.000	0.000	0.000	12.570	0	0.000	0	
L13	LEG	SAE	6X6X0.75	33.0	51.57	30.41	g294Y	76.221	LOAD 4	250.668	0.000	0.000	0.000	12.570	0	0.000	0	
L14	LEG	SAE	6X6X0.75	33.0	48.11	22.00	g319Y	55.159	LOAD 4	250.668	0.000	0.000	0.000	12.570	0	0.000	0	
L15	LEG	SAE	6X6X0.625	33.0	41.90	22.07	g344Y	46.609	LOAD 4	211.167	0.000	0.000	0.000	12.570	0	0.000	0	
L16	LEG	SAE	6X6X0.625	33.0	37.29	13.56	g362Y	28.643	LOAD 4	211.167	0.000	0.000	0.000	12.570	0	0.000	0	
L17	LEG	SAE	6X6X0.5	33.0	30.92	7.57	g380Y	12.923	LOAD 4	170.775	0.000	0.000	0.000	12.570	0	0.000	0	
L18	LEG	SAE	6X6X0.5	33.0	17.72	0.02	g398XY	0.028	LOAD 2	170.775	0.000	0.000	0.000	12.570	0	0.000	0	
D1A	DIA	DAS	5X3.5X0.375	36.0	91.89	30.35	g156Y	59.884	LOAD 2	197.316	0.000	0.000	0.000	24.015	0	0.000	0	
D1B	DIA	DAL	5X3.5X0.4375	36.0	88.47	30.17	g160Y	68.907	LOAD 2	228.420	0.000	0.000	0.000	17.433	0	0.000	0	
D1C	DIA	DAL	4X3X0.3125	33.0	22.52	16.74	g163Y	20.785	LOAD 1	124.146	0.000	0.000	0.000	17.433	0	0.000	0	
D2A	**DIA**	**DAS**	**4X3.5X0.3125**	**36.0**	**137.73**	**41.72**	**g143Y**	**60.695**	**LOAD 2**	**145.476**	**0.000**	**0.000**	**0.000**	**23.353**	**0**	**0.000**	**0**	**NG**
D2B	DIA	DAL	4X3.5X0.375	36.0	98.14	39.53	g146Y	68.396	LOAD 2	173.016	0.000	0.000	0.000	16.616	0	0.000	0	
D2C	DIA	DAL	3.5X3X0.25	33.0	57.16	22.00	g150Y	20.450	LOAD 1	92.961	0.000	0.000	0.000	16.616	0	0.000	0	
D3A	**DIA**	**DAS**	**4X3.5X0.3125**	**36.0**	**125.32**	**40.15**	**g131Y**	**58.403**	**LOAD 2**	**145.476**	**0.000**	**0.000**	**0.000**	**22.710**	**0**	**0.000**	**0**	**NG**
D3B	**DIA**	**DAL**	**4X3.5X0.3125**	**36.0**	**103.49**	**44.25**	**g134Y**	**64.373**	**LOAD 2**	**145.476**	**0.000**	**0.000**	**0.000**	**15.812**	**0**	**0.000**	**0**	
D3C	DIA	DAL	3.5X2.5X0.25	33.0	73.77	22.15	g139Y	18.942	LOAD 1	85.536	0.000	0.000	0.000	15.811	0	0.000	0	
D4A	**DIA**	**DAS**	**4X3X0.3125**	**36.0**	**132.69**	**41.57**	**g420Y**	**56.300**	**LOAD 2**	**135.432**	**0.000**	**0.000**	**0.000**	**22.089**	**0**	**0.000**	**0**	**NG**
D4B	DIA	DAL	4X3X0.5	36.0	76.45	28.83	g429Y	60.717	LOAD 2	210.600	0.000	0.000	0.000	15.023	0	0.000	0	
D4C	DIA	DAL	3.5X2.5X0.25	33.0	62.70	20.63	g436Y	17.642	LOAD 1	85.536	0.000	0.000	0.000	15.023	0	0.000	0	
D5A	**DIA**	**DAS**	**4X3X0.3125**	**36.0**	**104.26**	**48.06**	**g2Y**	**65.086**	**LOAD 4**	**135.432**	**0.000**	**0.000**	**0.000**	**20.304**	**0**	**0.000**	**0**	**NG**
D5B	DIA	DAL	3X2.5X0.3125	36.0	99.69	37.68	g13Y	39.559	LOAD 2	104.976	0.000	0.000	0.000	10.132	0	0.000	0	
D5C	DIA	DAL	3.5X3X0.375	36.0	69.54	31.86	g22P	47.375	LOAD 1	148.716	0.000	0.000	0.000	11.351	0	0.000	0	
D5D	**DIA**	**DAL**	**2.5X2X0.25**	**33.0**	**224.44**	**75.38**	**g25Y**	**47.683**	**LOAD 3**	**63.261**	**0.000**	**0.000**	**0.000**	**12.768**	**0**	**0.000**	**0**	**NG**
D6A	**DIA**	**DAS**	**4X3X0.3125**	**36.0**	**100.04**	**40.15**	**g65Y**	**54.371**	**LOAD 2**	**135.432**	**0.000**	**0.000**	**0.000**	**19.839**	**0**	**0.000**	**0**	
D6B	DIA	DAL	3.5X2.5X0.25	36.0	80.50	38.81	g69Y	36.217	LOAD 2	93.312	0.000	0.000	0.000	9.924	0	0.000	0	

D6C	DIA	DAL	3.5X3X0.3125	36.0	69.99	33.69	g77P	42.238	LOAD 1	125.388	0.000	0.000	0.000	10.954	0	0.000	0	
D6D	**DIA**	**DAL**	**2.5X2X0.25**	**33.0**	**157.06**	**52.76**	**g85Y**	**33.377**	**LOAD 4**	**63.261**	**0.000**	**0.000**	**0.000**	**12.146**	**0**	**0.000**	**0**	**NG**
D7A	DIA	DAS	4X3X0.3125	36.0	90.65	35.77	g117Y	48.448	LOAD 2	135.432	0.000	0.000	0.000	19.406	0	0.000	0	
D7B	DIA	DAL	3.5X2.5X0.25	36.0	72.00	34.87	g125Y	32.536	LOAD 2	93.312	0.000	0.000	0.000	9.703	0	0.000	0	
D7C	DIA	DAL	3.5X3X0.3125	36.0	59.45	30.19	g133P	37.857	LOAD 1	125.388	0.000	0.000	0.000	10.561	0	0.000	0	
D7D	DIA	DAE	2.5X2.5X0.25	36.0	65.27	27.38	g137Y	21.116	LOAD 4	77.112	0.000	0.000	0.000	11.559	0	0.000	0	
D8	DIA	DAS	4X3X0.375	36.0	63.43	21.62	g174XY	34.811	LOAD 2	161.028	0.000	0.000	0.000	31.684	0	0.000	0	
D9	DIA	DAS	3.5X3X0.3125	36.0	76.14	24.92	g198Y	31.243	LOAD 2	125.388	0.000	0.000	0.000	30.574	0	0.000	0	
D10	DIA	DAS	3.5X3X0.3125	36.0	70.62	24.77	g223Y	31.060	LOAD 2	125.388	0.000	0.000	0.000	29.541	0	0.000	0	
D11	DIA	DAS	3.5X2.5X0.25	36.0	65.86	21.05	g248Y	19.644	LOAD 2	93.312	0.000	0.000	0.000	18.606	0	0.000	0	
D12	DIA	DAS	3.5X2.5X0.25	36.0	64.57	21.24	g273Y	19.824	LOAD 2	93.312	0.000	0.000	0.000	17.925	0	0.000	0	
D13	DIA	DAS	3X2.5X0.25	36.0	62.53	22.29	g298Y	18.991	LOAD 2	85.212	0.000	0.000	0.000	17.267	0	0.000	0	
D14	DIA	DAS	3X2.5X0.25	36.0	62.72	22.73	g323Y	19.367	LOAD 2	85.212	0.000	0.000	0.000	16.636	0	0.000	0	
D15	DIA	DAL	3X2X0.25	36.0	48.89	13.01	g348Y	10.032	LOAD 2	77.112	0.000	0.000	0.000	22.815	0	0.000	0	
D16	DIA	DAL	3X2.5X0.25	36.0	38.23	12.14	g366Y	10.341	LOAD 2	85.212	0.000	0.000	0.000	21.273	0	0.000	0	
D17	DIA	SAS	3.5X3X0.25	33.0	87.21	17.33	g384Y	8.027	LOAD 2	46.332	0.000	0.000	0.000	19.789	0	0.000	0	
D18	DIA	SAE	3.5X3.5X0.25	33.0	58.76	14.32	g402XY	7.187	LOAD 2	50.193	0.000	0.000	0.000	18.376	0	0.000	0	
H1A	HOR	DAL	5X3.5X0.375	33.0	71.87	35.26	g165P	63.775	LOAD 1	180.873	0.000	0.000	0.000	30.625	0	0.000	0	
H2A	HOR	DAL	4X3X0.3125	33.0	59.47	49.58	g152P	61.555	LOAD 1	124.146	0.000	0.000	0.000	28.750	0	0.000	0	
H3A	HOR	DAL	3.5X3X0.3125	33.0	94.28	49.20	g136P	56.554	LOAD 1	114.939	0.000	0.000	0.000	26.875	0	0.000	0	
H4A	HOR	DAL	3.5X3X0.3125	33.0	54.59	45.31	g444P	52.078	LOAD 1	114.939	0.000	0.000	0.000	25.000	0	0.000	0	
H5A	HOR	DAL	3.5X3X0.3125	33.0	83.09	60.25	g33X	69.247	LOAD 3	114.939	0.000	0.000	0.000	15.430	0	0.000	0	
H5B	**HOR**	**DAS**	**4X3.5X0.3125**	**36.0**	**103.76**	**38.34**	**g48Y**	**55.779**	**LOAD 3**	**145.476**	**0.000**	**0.000**	**0.000**	**13.472**	**0**	**0.000**	**0**	
H6A	HOR	DAL	3.5X3X0.3125	33.0	55.43	45.36	g89X	52.131	LOAD 3	114.939	0.000	0.000	0.000	14.167	0	0.000	0	
H6B	HOR	DAS	4X3X0.3125	36.0	96.71	27.58	g105Y	37.348	LOAD 4	135.432	0.000	0.000	0.000	12.436	0	0.000	0	
H7A	HOR	DAE	3X3X0.3125	33.0	64.51	38.82	g149P	40.932	LOAD 1	105.435	0.000	0.000	0.000	12.917	0	0.000	0	
H7B	HOR	DAS	3.5X3X0.3125	36.0	65.04	18.25	g159Y	22.880	LOAD 4	125.388	0.000	0.000	0.000	11.389	0	0.000	0	
H8	HOR	DAL	3.5X2.5X0.3125	33.0	29.28	19.55	g181P	20.610	LOAD 1	105.435	0.000	0.000	0.000	17.500	0	0.000	0	
H9	HOR	DAL	3X2.5X0.25	33.0	66.31	21.68	g206P	16.937	LOAD 1	78.111	0.000	0.000	0.000	15.625	0	0.000	0	
H10	HOR	DAL	3X2.5X0.25	33.0	49.84	19.91	g231P	15.551	LOAD 1	78.111	0.000	0.000	0.000	13.750	0	0.000	0	
H11	HOR	DAE	2.5X2.5X0.25	33.0	42.51	20.85	g257P	14.741	LOAD 1	70.686	0.000	0.000	0.000	12.813	0	0.000	0	
H12	HOR	DAE	2.5X2.5X0.25	33.0	37.65	19.21	g281P	13.577	LOAD 1	70.686	0.000	0.000	0.000	11.875	0	0.000	0	
H13	HOR	DAE	2.5X2.5X0.25	33.0	31.25	18.59	g306P	13.137	LOAD 1	70.686	0.000	0.000	0.000	10.938	0	0.000	0	
H14	HOR	DAL	3X2.5X0.25	33.0	30.04	16.14	g331P	12.608	LOAD 1	78.111	0.000	0.000	0.000	10.000	0	0.000	0	
H15	HOR	DAL	3X2.5X0.25	33.0	14.10	7.25	g356P	5.665	LOAD 1	78.111	0.000	0.000	0.000	18.125	0	0.000	0	
H16	HOR	DAL	3X2.5X0.25	33.0	5.59	5.59	g370P	4.370	LOAD 1	78.111	0.000	0.000	0.000	16.250	0	0.000	0	
H17	HOR	DAL	3.5X3X0.3125	33.0	3.14	3.14	g388P	3.606	LOAD 1	114.939	0.000	0.000	0.000	14.375	0	0.000	0	
H18	HOR	CHN	C15 x 33.9	33.0	0.20	0.20	g406P	0.606	LOAD 1	295.812	0.000	0.000	0.000	12.500	0	0.000	0	
R1	RUD	SAE	3X3X0.25	33.0	20.16	4.26	g210X	1.821	LOAD 4	42.768	0.000	0.000	0.000	22.097	0	0.000	0	

*** End of Report

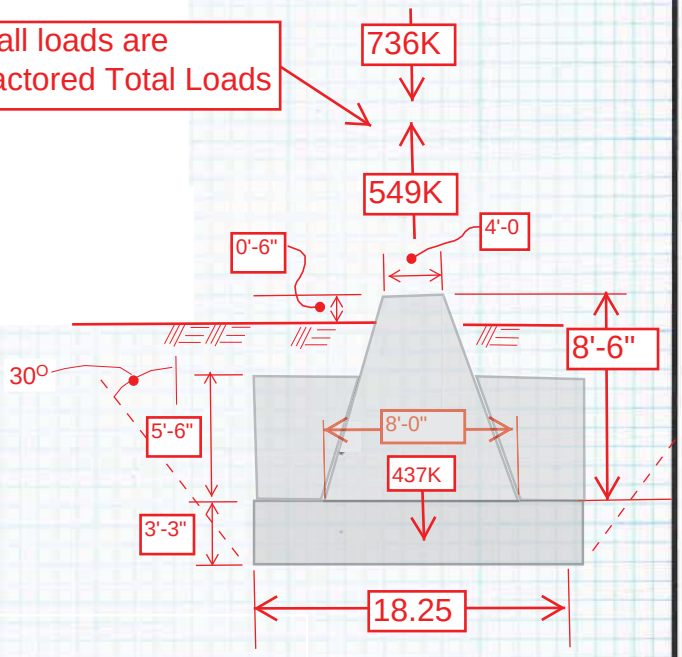
Moville IA - FOUNDATION REVIEW

SHEET NO. _____
JOB NO. _____
BY _____

Foundation Loads from Analysis Run

MAXIMUM DOWNWARD LOAD = 736 K
MAXIMUM UPWARD LOAD = 549 K

all loads are Factored Total Loads



ANCHOR BOLT CHECK

$23.86\ in^2 \times .75 \times .75 \times 58\ KSI = 778\ K$ O.K.

70%

REBAR CHECK (Piers)

$18.8\ in^2 \times (.85)\ 40 = 639.2\ K > 549\ K$ O.K.

86%

UPLIFT CHECK

Concrete

$18.25^2 \times 8.75 = 2914\ ft^3 \times .15 =$ .....437.1 K

Wt of SOIL

$[31.2^2 + (31.2' \times 18.25') + 18.25'^2]\ 11.0/3 = 6878\ ft^3$

$(6878\ ft^3 - 2914\ ft^3) \times .11 =$ ..... 436 K

437.1 (.9) + 436 (.75) = 720 K > 549K O.K.

DOWNWARD LOAD SOIL CHECK (Allow Stress Method)

$437\ K + (18.25^2 \times 2.50 \times .10) + 735K\ (.65) = 998\ K$

$998 / 18.25^2 = 2.99\ KSF < 3.5\ KSF$ Allowable per orig Geotech report

O.K. 85%

WOODBURY COUNTY BOARD OF SUPERVISORS AGENDA ITEM(S) REQUEST FORM #12c

Date: 02-21-17 Weekly Agenda Date: 03-07-17

ELECTED OFFICIAL / DEPARTMENT HEAD / CITIZEN: Glenn Sedivy, Communications Director

WORDING FOR AGENDA ITEM:

Approval of a Motion to a Tower Lease with Motorola Solutions, Inc. for an initial term of thirteen (13) years between Woodbury County, Starcomm and Motorola Solutions Inc.

ACTION REQUIRED:

Approve Ordinance ☐ Approve Resolution ☐ Approve Motion ☑

Public Hearing ☐ Other: Informational ☐ Attachments ☐

EXECUTIVE SUMMARY:

The Starcomm Executive Board recommends to the County Supervisors to approve a tower lease with Motorola Solutions Inc. for an initial term of 13 years to use a Starcomm radio tower.

BACKGROUND:

This is a partnership lease agreement with Motorola Solutions Inc. and Starcomm to operate on the State of Iowa's new Statewide radio system

FINANCIAL IMPACT:

None

IF THERE IS A CONTRACT INVOLVED IN THE AGENDA ITEM, HAS THE CONTRACT BEEN SUBMITTED AT LEAST ONE WEEK PRIOR AND ANSWERED WITH A REVIEW BY THE COUNTY ATTORNEY'S OFFICE?

Yes ☐ **No** ☐

RECOMMENDATION:

Approve this Tower Lease

ACTION REQUIRED / PROPOSED MOTION:

Approve a Motion to enter into an initial term of 13 years to lease tower space on the Starcomm West Tower at 2267 O'Brien Ave. Anthon Iowa to Motorola Solutions, Inc.

Approved by Board of Supervisors April 5, 2016.

THIS LEASE IS THE PROPERTY OF:
Woodbury County, Iowa
620 Douglas Street, Suite 104
Sioux City, Iowa 51101

AND THE PROPERTY OF:
Customer Support Manager, State of Iowa,
Motorola Solutions
1303 E. Algonquin Road
Schaumburg, IL 60196
ATTN: Dave Gordon
Phone: 319-377-6686

and

Law Department
Motorola Solutions, Inc.
500 W, Monroe St. 43rd Floor
Chicago, IL 60661
ATTN: Rich Heller
Phone: (847) 576-1817
Fax: (312) 559-5694

C/O Starcomm Public Safety Board
P.O. Box 447
Sioux City, Iowa 51102
ATTN: Glenn Sedivy
Phone: (712) 279-6959
Fax: (712) 279-6157

SITE LEASE AGREEMENT

THIS SITE LEASE AGREEMENT (hereinafter called "Lease"), is made and entered into as of this _____day of _____, 2017, by and between Woodbury County, Iowa, whose address is 620 Douglas Street, Suite 104, Sioux City, Iowa 51101 under the direction of the Starcomm Public Safety Board, whose address is P.O. Box 447 Sioux City, Iowa 51102, hereinafter called "Lessor", and Motorola Solutions, Inc. having an address of 500 W. Monroe St., Chicago, IL 60661, hereinafter called "Lessee".

In consideration of the covenants and agreements hereinafter set forth, the parties hereto agree as follows:

1. Leased Premises. Lessor is the owner of that certain real property described below (the "Property"). Lessor hereby Lease to the Lessee, for the period, at the rental, and upon the terms and conditions hereinafter set forth, certain portions of the Property, tower, and a portion of the interior space on the ground (the "Premises") located on the Property within the County of Woodbury, Iowa

2. Communications Equipment Upgrade and Installation. A detailed list of Communications Equipment to be installed and upgraded by the Lessee at the Property and a detailed Site Plan is hereby attached as **Exhibit A** and incorporated herein as if fully set forth in this Agreement. A Structural Analysis of the communications tower is hereby attached as **Exhibit B** and incorporated herein as if fully set forth in this Agreement.

"Communications Equipment" shall be defined as: a communications facility including (without limitation) antennae and radios (including microwave antennae and radios); equipment cabinets; backup

power sources (including batteries, generators and fuel storage tanks); and other associated equipment, fixtures, wiring, and cabling.

Lessee shall cause the Communications Equipment to be fully installed and upgraded on the Property by June 16, 2017. All costs associated with the installation of Communications Equipment and upgrading of the existing system shall be borne by the Lessee. The Communications Equipment shall service the Public Safety communication needs of the area.

The location of the above tower and equipment is:

Site Address: 2267 O'Brien Avenue, Anthon, Iowa 51104

Latitude: 42-22-30 N Longitude: 095-48-24W

3. Access. Lessor also grant to Lessee, the State of Iowa, and their respective employees, contractors, agents, representatives, and assigns, access to the Property and Premises described in paragraph one (1) above, seven days a week, 24 hours a day, throughout the term of this Lease, provided that, prior to Lessee or Lessee's contractors climbing the tower for antenna access, Lessee will give Lessor no less than 12 hours prior notice. To allow this access to climb the tower or Fenced Compound, Lessor will give Lessee a key to the lock on the Compound. Each time the Lessee's employee(s) access the location all the Lessee's employees will notify the Facility Manager, in writing, in person or if necessary over the phone by calling (712) 279-6960. These employees will be subject to criminal background checks, except in emergency situations and when otherwise agreed upon by Lessor in writing. Security access to the sites compound will be provided by the Starcomm Director or Facility Manager. Each employee of Lessee who climbs the tower will have in their possession a card showing that they have completed the Qualified Climber/Rescue course offered through Comtrain or similar program approved by Lessor. Each employee of Lessee will follow all OSHA regulations while climbing any portion of the tower including wearing all required safety harnesses and will use the safety climbing cable while on the tower. There will never be fewer than 2 certified climbers on the site during any type of climbing on the tower.

4. Initial Term and Commencement Date of Lease . The "Initial Term" of this Lease shall be for a period of Thirteen (13) years. The "Commencement Date" for the Initial Term of this Lease begins upon the start of installation of the Communications Equipment as described in Paragraph 1, in and about the Premises and expiring on the date which is thirteen (13) years thereafter. Lessee shall provide written notification to the Parties of the date when installation shall commence. In any event the commencement date shall be no later than April 1, 2017.

5. Renewal Terms. Lessor hereby grant to Lessee the right, privilege and option to extend this Lease for four (4) additional "Renewal Terms" of Five (5) years, each with the consent and written approval from Lessor, from the end of the Initial Term, under the same terms, covenants and conditions as herein contained, provided that Lessee is not in default of any of the terms, covenants or conditions of this Lease at the conclusion of the Initial Term or any prior Renewal Term, respectively. This Lease shall automatically terminate unless Lessee gives written notice of the desire to extend or renew the Lease at least one hundred eighty (180) days prior to the end of the applicable term and obtains Lessor' consent to each requested extension.

6. Termination.

a. Both Lessor and Lessee shall have the right to terminate this Lease for cause, in the event the other party defaults on any material provision of this Lease**,** and in the event that such default is not cured within thirty (30) days after written notice thereof is provided to the other party. Said curative period shall be extended another thirty (30) days provided defaulting party has shown a good faith effort to cure default. Notwithstanding the foregoing, the curative period for any monetary default is thirty (30) days from receipt of written notice and the curative period for lapse in insurance coverage is ten (10) days from the receipt of written notice

b. The parties agree that in the event that federal or state law requires the installation of back up power sources or supplies that the terms of this Lease will require an amendment to be negotiated between the parties. No additional equipment shall be placed upon the Premises by Lessee without the written consent of Lessor. Notwithstanding the foregoing, Lessee may install upgraded Communications Equipment to replace existing Communications Equipment without the written consent of Lessor. However, a detailed list of replaced items must be promptly provided to the Lessor.

c. This Lease may be terminated without further liability as set forth below:

1) by either party in the event the other party defaults on any material provision of this Lease**,** and in the event that such default is not cured within thirty (30) days after written notice thereof is provided to the other party. Said curative period shall be extended another thirty (30) days provided defaulting party has shown a good faith effort to cure default. Notwithstanding the foregoing, the curative period for any monetary default is thirty (30) days from receipt of written notice and the curative period for lapse in insurance coverage is ten (10) days from the receipt of written notice; or

2) by Lessee if it does not obtain or maintain any license, permit or other approval necessary for the construction and operation of Lessee's facilities; or

3) by Lessee if Lessee is unable to occupy and utilize the tower site due to an action of the FCC, including without limitation, a take-back of channels, a change in frequencies, or a change in licensed coverage area; or

4) by Lessee if Lessee determines that the tower site is not appropriate for its operations for economic or technological reasons, including, without limitation, signal interference; or

5) by Lessor if the Lessor determine the tower site is no longer suitable to be used by Lessor for their operation and the Lessor choose to remove the building; or

6) by Lessor after the expiration of the initial term of this Lease upon providing Lessee with written notice. Such notice, if given by Lessor, must be given not less than three hundred sixty-five (365) days prior to the date therein specified (this time is given for Lessee to find a new site, get zoning approval, construct a new site and move Lessee's shelter and antennas); or

7.) by Lessor at any time upon occurrence of a Separation Event, as that term is defined in 14(f), by giving at least thirty (30) days' notice in writing to the Lessee.

8) by the parties mutual agreement.

d. In the event of termination or expiration of this Lease, Lessee shall have a reasonable period of time (not exceeding ninety (90) days from the effective date of termination unless a longer time is allowed

elsewhere in this Lease) to remove all Communications Equipment from the Premises, however all improvements to the tower and/or ancillary structures shall be left in place and in good repair by the Lessee. Upon expiration of this Lease, Lessee shall restore the Premises to reasonably good condition and repair, subject to ordinary wear and tear on the Premises, which is specifically excepted. Failure of Lessee to remove its Communications Equipment at the expiration or termination of this Lease may result in Lessor removing the equipment and payment of all charges occasioned by such removal will be the responsibility of the Lessee.

7. Initial Term Rent .

a. Lessee shall pay Woodbury County, Iowa, administrator of funds of Starcomm Public Safety Board Ten Dollars ($10) and other good and valuable consideration as full consideration for the initial Term and all Renewal Terms of this Lease. Unless otherwise specified in this Lease, each party shall bear its own costs.

8. Use and Non-Interference of Premises. Lessee shall have the right to use the Property and Premises for the purpose of installing, removing, replacing, modifying, repairing, maintaining, and operating a communications facility including (without limitation) antennae and radios (including microwave antennae and radios); equipment cabinets; backup power sources (including batteries, generators and fuel storage tanks); and other associated equipment, fixtures, wiring, and cabling (collectively the "Communications Equipment"). The parties acknowledge that (a) the Communications Equipment will be owned by Lessee, the State of Iowa, or their respective assignee and (b) the Communications Equipment will be used for emergency services, public safety and other governmental purposes, including the Iowa State Patrol and other Iowa state agencies, and any federal, state, county, municipality or other governmental body, including any department or agency thereof. Lessee shall not do or permit any activities upon the Premises, which would cause interference to Lessor or with Lessor's principle use of the Premises as a Lattice Tower in Woodbury County, Iowa. 2267 O'Brien Avenue. The Lessee will be allowed to install its Communications Equipment inside and outside the communications tower house. This is not an exclusive lease of the premises. Lessor retains the right to lease additional space to other Tenants provided that the additional Tenants' equipment does not interfere with the activities and transmission signals of the Lessee. Additionally, Lessor will continue to use the premises for their own business or public safety purposes. Lessor affirmatively covenants that except for acts of God, neither Lessor nor its employees, agents, representatives, invitees, other tenants or licensees shall cause or allow others to cause interruption of electrical power or interruption of telephone service to the Communication Equipment.

9. Insurance and Indemnification.

Unless self-insured, at all times during the term of this Lease, Lessee shall at its expense carry and maintain for the mutual benefit of the Lessor:

a. Commercial General liability insurance against the claims for personal injury, death or property damage occurring in or about the Leased Premises or resulting from the installation, operation or maintenance of the Lessee's Communications Equipment on the Leased Premises, such insurance to be in the amount of $1,000,000.00 for personal injuries and deaths resulting from any one accident and for property damage in any one accident, and an aggregate coverage in the amount of $3,000,000.00 with Lessor included as additional insureds.

b. A Standard Workmen's Compensation and Employer's Liability Insurance Policy in the amount equal to the limit of liability and in a form prescribed by the laws of the state in which the Leased Premises is located.

c. Any contract workers contracted by Lessee shall also carry similar insurance as set forth in a. and b. above.

10. Damage or Destruction. If the Premises are damaged, destroyed by fire, winds, flood, or other natural or manmade cause, Lessor shall have the option to repair or replace the Premises at their sole expense, or to terminate this Lease effective on the date of such damage or destruction. Notwithstanding the foregoing, for purposes of implementing the ninety (90) day period specified in 6(d), the ninety (90) day period shall commence upon the later of (i) the Lessor having notified the Lessee of a decision not to repair or replace the Premises or (ii) sixty (60) days having passed without Lessor having notified Lessee of a decision to repair or replace the Premises (unless the Lessor have begun repair or replacement activities). In the event Lessor elect to terminate this Lease, Lessee shall have no further obligations hereunder. Lessor shall have up to sixty (60) days to decide on whether to repair or replace the Premises. Failure by Lessor to notify Lessee within sixty (60) days of Lessor' decision to repair or replace the Premises shall be deemed an election by Lessor to terminate this Lease, unless the Lessor have begun repair or replacement activities. If Lessor elect to repair or replace the Premises, Lessee shall have the option of either abating the rent due until such repair or replacement is completed and the Premises are restored to a condition that the Lessee can resume full operations at the Premises; or until Lessee begins operating a mobile telecommunication base station on the Premises. Lessee may immediately erect on an unused portion of the Property a temporary communications facility. In the event such repairs or restoration are not commenced within thirty (30) days or completed within ninety (90) days, Lessee may elect to terminate this Lease by so notifying Lessor in writing, The option to operate a mobile telecommunications base station on the Premises is subject to the Lessee obtaining all required State and local permits and obtaining verbal consent of the Starcomm Public Safety Board, said consent shall not be unreasonably withheld. Said verbal consent will be confirmed electronically or in writing by the Starcomm Public Safety Board within twenty-four (24) hours. If there is a condemnation of the Premises, then this Lease will terminate upon transfer of title to the condemning authority, without further liability to either party except for Lessor's obligation to reimburse Lessee for any prepaid fees. Lessee is entitled to pursue a separate condemnation award from the condemning authority. Lessor shall notify Lessee in writing within ten (10) days after it receives notice of any actual or contemplated condemnation proceedings.

11. Taxes. Lessor shall pay and be responsible for all taxes on the Premises, and Lessee shall pay and be responsible for all taxes due on Lessee's equipment and fixtures installed on the Premises.

12. Notices. Any notices required or permitted to be given hereunder shall be given in writing, and shall be deemed to have been given only upon receipt after mailing by certified or registered first class mail, postage prepaid, return receipt requested, or sending by reliable overnight courier and addressed to the parties as follows:

Lessor: Woodbury County, Iowa
Board of Supervisors
620 Douglas Street, Suite 104
Sioux City, Iowa 51101
Phone: 712-279-6525

Starcomm Public Safety Board
P.O. Box 447
Sioux City, Iowa 51102
ATTN: Glenn Sedivy
Phone: (712) 279-6959
Fax: (712 279-6157

Lessee: Customer Support Manager, State of Iowa,
Motorola Solutions
1303 E. Algonquin Road
Schaumburg, IL 60196
ATTN: Dave Gordon
Phone: 319-377-6686

Law Department
Motorola Solutions, Inc.
500 W. Monroe St., 43rd Floor
Chicago, IL 60661
ATTN: Rich Heller
Phone: (847) 576-1817

13. Hazardous Materials. At no time during the term hereof shall the Lessee store, place, leave or deposit at the Tower or the Premises any substance or material which, if known to be present on or at such property, would require cleanup, removal or some other remedial action under any federal, state or local law, including statutes, regulations, ordinances, codes, rules and other governmental restrictions and requirements relating to the discharge of air pollutants, water pollutants, processed waste water, solid wastes, or otherwise relating to environmental hazardous substances, including but not limited to the Federal Solid Waste Disposal Act, the Federal Clean Air Act, the Federal Clean Water Act, the Federal Resource Conservation and Recovery Act of 1976, the Federal Comprehensive Environmental Response, Compensation, and Liability Act of 1980, and all acts amendatory thereto, regulations of the Environmental Protection Agency, regulations of the Nuclear Regulatory Agency, and regulation of any State Department of Natural Resources or State Environmental Protection Agency now or at any time hereinafter in effect. The Lessee agrees to and does hereby indemnify and save the Lessor and owners harmless from any and all claims, demands, suits, actions, recoveries, judgments, costs and expenses relating in any way to Lessee's violation of this Section, and this indemnification obligation shall survive the expiration or termination of this Lease. Lessor acknowledge and agree that Lessee shall have no liability or responsibility whatsoever for any environmental violations or issues, at the tower or premises, existing prior to the date of Lessee's occupancy or otherwise not caused by Lessee. Lessor represents and warrants that it has no knowledge of any pre-existing environmental contamination on or about the Property or any substance, or chemical, or waste on the Property that is identified in any applicable state, federal, or local law or regulation as being hazardous, toxic, or dangerous. Lessor shall not introduce or allow any other tenant or licensee to introduce any such substance or chemical or waste onto, near or adjacent to the Property in violation of applicable law.

14. Miscellaneous Provisions.

a. Lessor warrant that (i) Lessor are the owners of the tower and owners and/or lessees of the tower site property; (ii) that Lessor have full right, power, and authority to execute this agreement and if necessary have obtained all necessary consents to sublease the Premises; (iii) that Lessor will not have unsupervised access to the Communication Equipment on the Premises; (iv) that the Property: (a) abuts a public right-of-way over which practical access is possible, or (b) is accessible over easements appurtenant to such site; and (v) that to the best of Lessor's knowledge making of this Lease and the performance thereof will not violate any zoning or other laws, ordinances, restrictive covenants or the provision of any mortgage, lease or other agreements under which Lessor is bound and which restricts itself in any way with respect to the use or disposition of the Property. Lessor covenant that Lessee, in paying Rent and performing the covenants by Lessee herein made, shall and may peacefully and quietly have, hold, and enjoy the Leased Premises.

b. Lessee may, at its expense, make such improvements to the Property and Premises as it deems necessary for the operation of the Communication Equipment with prior written approval of the Lessor. Lessee shall obtain all necessary governmental and regulatory approvals required for Lessee's occupation and use of the Premises, including but not limited to zoning changes, and shall be responsible for the cost of obtaining such approvals. Lessor shall cooperate with Lessee in obtaining such approvals.

c. The provisions of this Lease shall bind and inure to the benefit of the parties hereto and their heirs, legal representatives, successors and assigns. References to Lessee herein shall include Lessee's transferees, successors, and assigns. References to Lessor herein shall include Lessor's transferees, successors, and assigns.

d. This Lease and the attached exhibits contain the entire agreement of the parties with respect to its subject matter and supersede any prior oral or written agreements.

e. This Lease may be amended in writing only, signed by all the parties in interest at the time of such amendment.

f. Lessee may assign this Lease to the State of Iowa or any of its departments, agencies or designees, or to any of Lessee's affiliates without the prior consent of Lessor. In addition, in the event Lessee separates one or more of its businesses (each a "Separated Business"), whether by way of a sale, establishment of a joint venture, spin-off or otherwise (each a "Separation Event"), Lessee may, without the prior written consent of Lessor and at no additional cost to Lessee, assign this Lease such that it will continue to benefit the Separated Business and its affiliates following the Separation Event. In the event of such a permitted transfer, Lessee shall provide written notice to Lessor of the Separation Event within thirty days of the completion of the Separation Event. This Lease shall continue as a direct lease between Lessor and any permitted transferee, and the original Lessee shall be released from any and all future liability hereunder. Lessee shall notify Lessor in writing of the name and address of any assignee. This Lease may be assigned by Lessor without the consent of Lessee provided that the assignee shall occupy and use the Premises subject to this Lease. Lessor shall notify Lessees in writing of the name and address of any assignee.

g. No waiver by either party of any provision herein shall be deemed a waiver of any other provision or of any prior or subsequent breach of any provision herein.

h. If any term or provision of this Lease is held to be invalid or unenforceable, such invalidity or unenforceability shall not be construed to affect any other provision of this Lease and the remaining provisions shall be enforceable in accordance with their terms.

i. This agreement shall be governed by and construed in accordance with the laws of the State of IOWA, without regard to its conflicts of law principles.

j. If Lessee does not vacate the Premises in accordance with the Lease terms upon valid termination of this Lease, such holding over shall be treated as creating a month to month tenancy. This holdover will not be approved for more than ninety (90) days. Rent during the holdover will be 150% of the current rent. Further, if Lessee does not vacate the Premises as required, Lessee's Communications Equipment may be removed by Lessor at Lessee's expense. Any bill for removal of Lessee's equipment by Lessor shall be paid in full within thirty (30) days of mailing.

k. Lessee may make, with prior approval from Lessor, reasonable alterations, additions, or improvements to the Premises necessary for its antennas, communication shelter, power cables and telephone cables, so

long as the structural integrity of the Premises is not affected. Lessee will bear the total cost of such alterations, additions or improvements, including regular maintenance, and the cost of removal and returning the Premises to the condition it was at the time of entering into the Lease (subject to the terms of paragraph 6(d) of this Lease).

l. Lessee shall be solely responsible for maintenance of its Communications Equipment, and shall arrange for maintenance under separate contract for all such maintenance services. Lessee shall not expect or ask Lessor to do any special site maintenance for Lessee's antennas or shelter, unless Lessee enters into a separate maintenance contract with Lessor, which contract will be separate from the terms of this Lease (i.e.: in the event that some minor snow plowing is requested for Lessee's access to their shelter, Lessee will separately contract for that service under a separate document).

m. Lessee will bear any and all costs associated with temporary relocation of Lessee's equipment, if required, during repairs or painting of Lessor' building. Lessor will give Lessee at least thirty (30) days advance notice of scheduled repairs or painting of Lessor' building or tower which may affect Lessee's operation, so that Lessee can pre-plan for providing high-quality communications to Lessee's customers during any temporary relocation required by Lessor' repair or painting activities. Lessor are not required to provide notice of routine repairs, such as replacement of tower lights, which do not affect Lessee's operation. Lessor will provide Lessee notice of emergency repairs with at least twelve (12) hours prior notice unless it is impossible or impractical to do so and then the Lessee shall be provided with as much prior notice as possible under the emergency circumstances.

n. To the extent permitted by law, Lessee shall indemnify and hold Lessor harmless against all expenses, liabilities and claims of every kind, including reasonable attorney fees, to the extent arising from the negligent or wrongful acts or omissions of Lessee or anyone for whose acts Lessee may be liable and made necessary by or on behalf of any person or entity arising out of:

1) A failure by Lessee to perform any of the terms and conditions of this Lease; or

2) Any injury or damage happening on or about the Leased Premises which is caused in whole or in part by Lessee's use of the Premises, any act or omission of Lessee or anyone for whose acts Lessee may be liable; or

3) Any injury or damage to any employee, agent, or customer of Lessee or Lessor on or about the Leased Premises which is caused in whole or in part by Lessee's use of the Premises, any act or omission of Lessee or anyone for whose acts Lessee may be liable; or

4) Failure of Lessee to comply with any applicable laws or governmental authority; or

5) Any action brought by a third party for damages as a result of an injury caused by Lessee or action or inaction of the Lessee.

15. Approval. The parties agree that this Lease shall not be binding on either party unless and until it is fully executed by both parties. If this Lease is signed by only one party, it shall merely constitute an offer to lease.

16. Utilities. Lessee shall be entitled to install any utilities and services required for the Communication Equipment. Lessor shall provide Lessee with such reasonable assistance as is necessary to enable Lessee to arrange for such utilities and services, including signing any easement or other instrument reasonably required by the utility company. Lessor represents that utilities required for Lessee's use of the Premises are available, and Lessee shall not be required to pay any share of such utilities and services as are used

for the Communication Equipment. All electricity and any other utility services used by Lessee to operate the Communications Equipment will be paid by Lessor.

17. Compliance with Laws. The Parties shall comply with all applicable local, state, and federal government laws, codes and regulations, including without limitation FAA, FCC, NEPA, occupational health and safety, environmental, and electromagnetic (EME) requirements, and applicable requirements of the Americans with Disabilities Act.

18. Short Form Lease. The parties will, at any time upon the request of either one, promptly execute duplicate originals of an instrument, in recordable form, which will constitute a short form of this Lease setting forth a description of the premises, the term of this Lease and any portions hereof, excepting the rent and cost provisions.

19. Contingency for Due Diligence. Lessee shall have until the Commencement Date to conduct a due diligence examination of all factors affecting the Property and to satisfy itself in its sole discretion that the Property is suitable for Lessee's intended use. Lessor shall furnish Lessee with the legal description, coordinates, address or location and real estate tax numbers, if available, for the Property as well as copies of any title policies or searches, surveys or site drawings (including those dealing with utility or access easements), any Prime Lease or Ground Lease, including all amendments, current users of the Property and all broadcast frequencies and any studies dealing with structural, RF, engineering or environmental, NEPA or EME matters, as well as other documentation reasonably requested by Lessee. Lessor shall also allow Lessee's personnel or its contractors to visit and investigate the Property and perform structural, engineering and environmental evaluations and tests. Lessor shall use its best efforts to obtain from the holder of any mortgage or deed of trust ("Mortgagee") a non-disturbance agreement in a form provided by or otherwise acceptable to Lessee. In the event Lessee is not satisfied with the Property or Lessee does not receive non-disturbance agreements from all Mortgagees Lessee shall have the right to terminate this Lease by so notifying Lessor in writing on or before the Commencement Date, in which event all funds paid by Lessee shall be returned to Lessee.

23. Brokers. Lessor and Lessee each represents to the other that he, she, or it did not deal with any broker or other person who may be entitled to a commission as a result of the transaction contemplated by this Lease, and Lessor and Lessee hereby agree to indemnify and hold the other harmless from a breach of the foregoing representation.

24. Counterparts: Facsimile Signatures. This Lease may be executed in one or more counterparts, each of which shall be deemed an original and all of which together shall constitute one and the same instrument. In addition, a true and correct facsimile copy or computer image of this Agreement shall be treated as and shall have the same effect as an original signed copy of this document.

25. Waiver of Lessor's Lien Rights. Lessor agrees that it does not have any lien rights in Lessee's personal property or the Communications Equipment.

26. Mutual Waiver of Consequential Damages and Limitation of Liability. NOTWTHSTANDING ANYTHING TO THE CONTRARY IN THIS LEASE, ALTHOUGH THE PARTIES ACKNOWLEDGE THE POSSIBILITY OF SUCH LOSSES OR DAMAGES, EACH PARTY AGREES THAT THE OTHER PARTY WILL NOT BE LIABLE FOR ANY COMMERCIAL LOSS; INCONVENIENCE; LOSS OF USE, TIME, DATA, GOOD WILL, REVENUES, PROFITS OR SAVINGS; OR OTHER SPECIAL, INCIDENTAL, INDIRECT, OR CONSEQUENTIAL DAMAGES IN ANY WAY RELATED TO OR ARISING FROM THIS LEASE, AND EXCEPT FOR PERSONAL INJURY, DEATH, OR DAMAGE TO TANGIBLE PROPERTY, EACH PARTY'S TOTAL LIABILITY, WHETHER FOR BREACH OF CONTRACT, WARRANTY, NEGLIGENCE, STRICT

LIABILITY IN TORT, INDEMNIFICATION, OR OTHERWISE, WILL BE LIMITED TO THE DIRECT DAMAGES RECOVERABLE UNDER LAW, BUT NOT TO EXCEED $3,000,000.00. This limitation of liability provision survives the expiration or termination of this Lease and applies to the fullest extent permitted by law, notwithstanding any contrary provision.

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IN WITNESS WHEREOF the parties have executed this Agreement as of the date first above written.

WOODBURY COUNTY, IOWA

By _____
Matthew Ung
Chairperson

Certification of County Auditor:

I, Patrick Gill, certify that I am the County Auditor of the Woodbury County, Iowa and that Matthew Ung, who executed this Agreement for and on behalf of the County, was duly authorized and empowered to do so as of _____ _____. 2017

_____
Patrick Gill
Woodbury County Auditor

STARCOMM, WOODBURY, IOWA

By _____
Douglas Young
Chairperson

Certification of Starcomm:

I, Carrie Anfinson-Haden, certify that I am the Administrative Secretary for Starcomm and that Chairperson Douglas Young, who executed this Lease for and on behalf of Starcomm, was duly authorized and empowered to do so as of _____, 2017.

_____
Carie Anfinson-Haden,
Administrative Secretary for Starcomm

MOTOROLA SOLUTIONS, INC.

By: _____

_____
[Print Name]

Title: _____

Date: _____

STATE OF _____)
: ss
COUNTY OF _____)

On this _____ day of _____ , 20 _____ before me, the undersigned a Notary Public in and for said County and State, personally appeared _____ and _____ to me personally known, who being by me duly sworn, did state that they are the _____ and _____ respectively, of said corporation executing the within and foregoing instrument, that _____ (no seal has been procured by the said) _____ (the seal affixed thereto is the seal of said) corporation; that said instrument was signed (and sealed) on behalf of said corporation by authority of its Board of Directors; and that the said _____ and _____ as such officers acknowledged the execution of said instrument to be the voluntary act and deed of said corporation by it and by them voluntarily executed.

(SEAL)

_____
NOTARY PUBLIC in and for said COUNTY and STATE

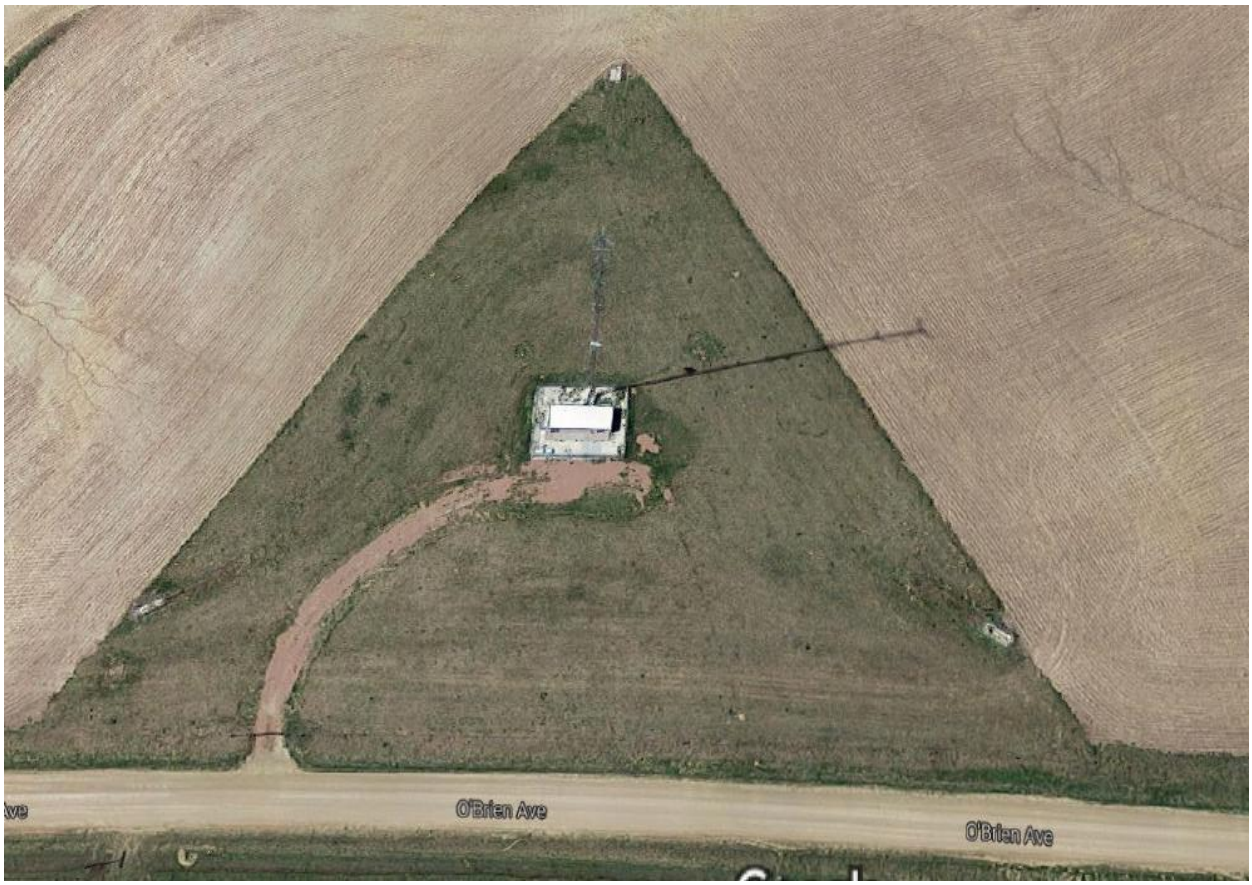
EXHIBIT A

DESCRIPTION OF PROPERTY AND EQUIPMENT TO BE INSTALLED

This exhibit provides the address, location, and general description of the property subject to the Lease.

Legal Description:

The site is known as “Obrien” consists of a guyed tower, communications shelter, and backup generator. Additional antennas are planned for this tower resulting in tower strengthening work as documented in the loading analysis report (PNS-ISICS-94 Woodbury tower SA). With the exception of the antennas to be mounted on the tower, all new equipment is to be installed inside the equipment shelter.



Address or Location:

East (O'Brien Ave) Iowa
2267 O'Brien Ave.
O'Brien Ave & 230th St
2.5 miles E of Anthon

Coordinates:

42-22-30N / 95-48-24W

Equipment to be installed on the tower:

- 21ft Omni directional antenna (SC412-HF2LDF) @ 345 feet
- 6ft parabolic dish (SB6-W60AC) @ 340 feet
- 4ft parabolic dish (SB4-W60AD) @ 310 feet
- 6ft parabolic dish (SB6-W60AC) @ 89 feet

Equipment to be installed inside the shelter:

- 3 Base Radios to existing Expansion Radio Rack
- Coriant MPLS router
- Additional DC rectifiers to existing Eltek chassis to increase output capacity
- Additional battery strings to increase runtime

Structural Analysis of a 350 ft Guyed Tower

Site Number: 94

Site Name: Woodbury
County: Woodbury
Location: Anthon, IA

Checked By:

Derek Hartzell
Structural Design Engineer IV

LICENSED PROFESSIONAL ENGINEER
DMITRIY V. ALBUL
21016
IOWA

05/12/2016

Pyramid Network Services, LLC

6519 Towpath Rd.

East Syracuse, NY 13057

May 2016

May 12, 2016

James Reek
Pyramid Network Services, LLC
6519 Towpath Road
East Syracuse, NY 13057

RE: ISICS – 94 – Woodbury CO
O'Brien Ave, Anthon, IA

James:

We have completed the structural analysis of the subject tower and **have found it to be overloaded within the scope of this analysis to support the proposed antenna loading**. The tower was analyzed according to the requirements of TIA 222-G-2 standard for Woodbury County for 90 mph (3-sec. gust) wind speed with no ice and 50 mph wind with 3/4"* ice per the 2009 IBC as referenced by the local building Code. Topographic Category 1, Exposure C, and Structure Class III were used in this analysis.

The subject tower is a 350' Sabre guyed tower consisting of all-welded sections with solid rod legs and solid rod bracing. Tower face dimension is 24" the full height above a 5' tapered base. The tower mast is laterally supported by six levels of guying attached to one set of three guy anchors. Foundation capacities were predicated on supplied as-built details.

The loading used in the analysis consisted of the existing antennas/lines as well as the following:

- (1) SC412-HF2LDF @ 345 tip height fed by one 1-1/4" coax
- (1) SB6-W60 dish @ 340'** (azimuth of 284.01°) fed by one CNT-400
- (1) SB4-W60 dish @ 310' (azimuth of 184.94°) fed by one CNT-400
- (1) SB6-W60 dish @ 89' (azimuth of 284.01°) fed by one CNT-400

The proposed feed lines were assumed to be located as shown on drawing E-7.
**Adjusted from 350' due to obstruction.

The results of the analysis showed multiple sections of bracing and legs, an elevation of guy cables, as well the foundation to be overloaded with a maximum stress rating of 178.1%*. Note that a reinforcement design of these elements is outside the scope of this analysis but can be completed under separate contract.

The maximum displacement of the proposed microwave dishes at service wind speed is as follows:

Elevation ft	*Appurtenance*	*Tilt* °	*Twist* °
340.00	SB6-W60	2.355	12.020
310.00	SB4-W60	2.254	10.577
89.00	SB6-W60	1.894	3.775

*Note that the ice in this analysis was reduced to 0.6" out of the required 0.75" due to software limitations. It is assumed that the stresses and overloading are larger under the code required ice. During a reinforcement design 0.75" will need to be considered.

For a detailed listing of the tower's pre-reinforcement performance, please see pages 16 through 19 of the calculations.

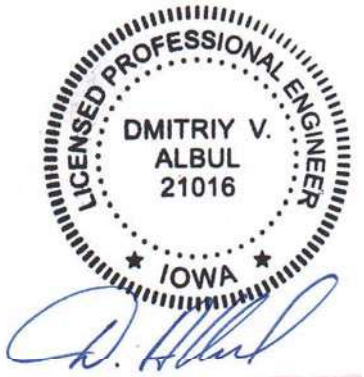
We appreciate the opportunity to provide our services Pyramid Network Services, Motorola and Iowa State EMS, and if you have any questions concerning this analysis, please contact us. Please let us know if we can be of further assistance in providing a price quote to design the reinforcement for this tower.

Sincerely,

ARMOR TOWER, INC.

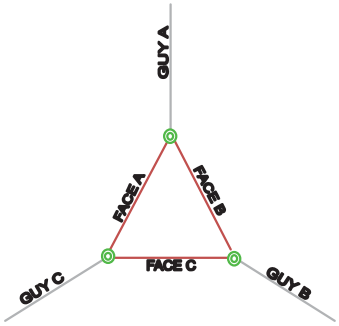
Patrick Propert

Patrick Propert
Structural Design Engineer II



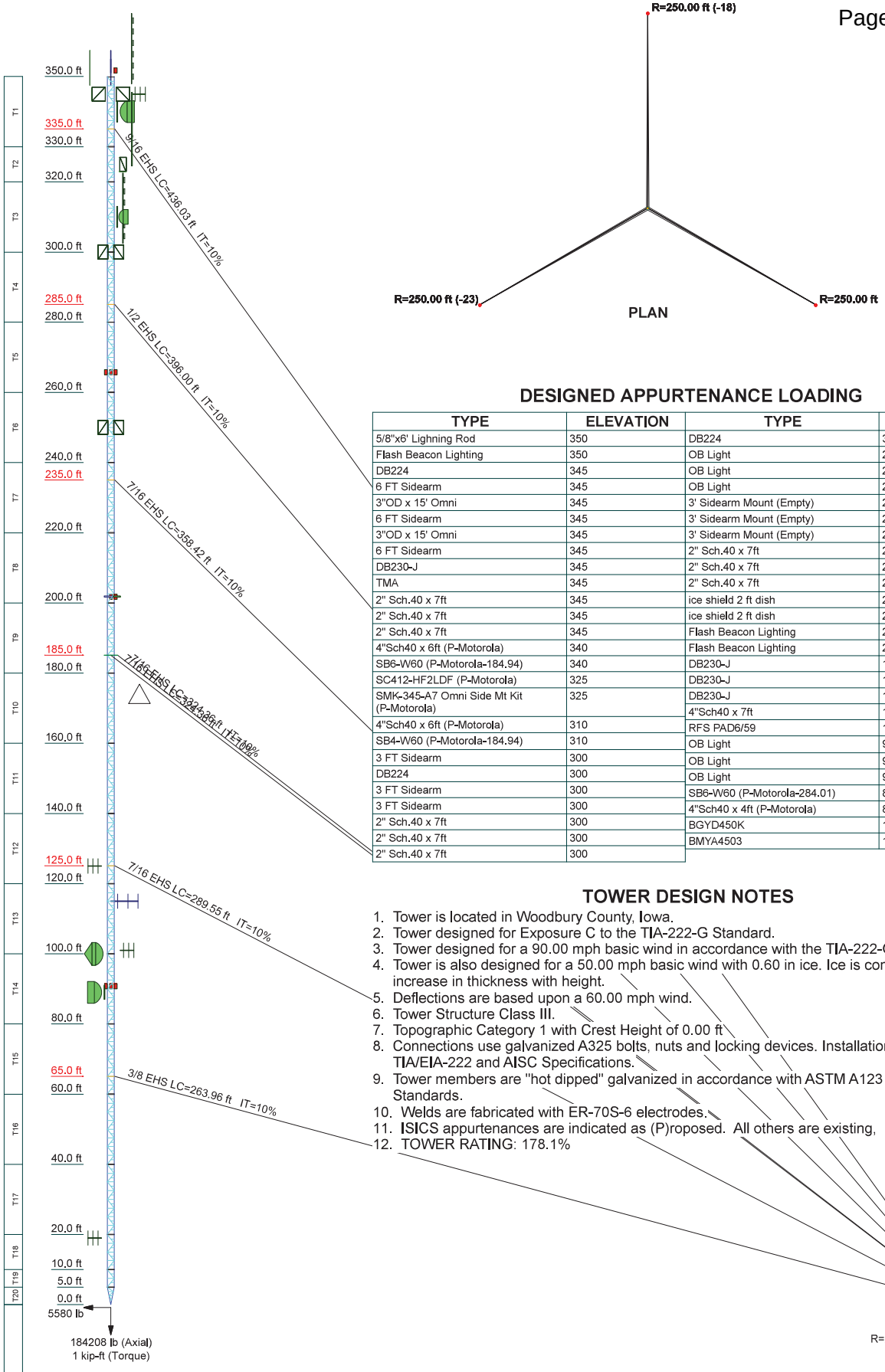
05/12/2016

PRIMARY ASSUMPTIONS USED IN THE ANALYSIS



1. Leg A is assumed to be oriented Northeast.
2. Allowable steel stresses are defined by AISC-LRFD 13th Edition and all welds conform to AWS D1.1 specifications.
3. Armor Tower has been commissioned to analyze the tower according to the requirements of TIA 222-G-2 for Woodbury County, IA. Per this standard, a basic wind speed of 90 mph (3-sec. gust) without ice and 50 mph with 3/4" ice is recommended. This site is not within a special wind region according to the ASCE 7 wind map. It is the client's responsibility to check with local authorities or the tower owner if a greater wind or ice loading is required to be considered in the analysis.
4. The acceptability of the analyzed antenna loading is the responsibility of Motorola and its affiliates to confirm with the respective carriers or the tower owner.
5. Any deviation from the analyzed antenna loading will require a re-analysis of the tower for verification of structural integrity. The proposed feed lines were assumed to be located as shown on drawing E-7.
6. This analysis assumes all tower members are galvanized adequately to prevent corrosion of the steel and that all tower members are in "like new" condition with no physical deterioration. This analysis also assumes the tower has been maintained properly per TIA 222-G Annex J recommended inspection and maintenance procedures for tower owners and is in a plumb condition. Armor Tower has not completed a condition assessment of the tower. Site observations indicate an adequately painted tower.
7. No accounting for residual stresses due to incorrect tower erection can be made. This analysis assumes all bolts are appropriately tightened providing necessary connection continuity and that the installation of the tower was performed by a qualified tower erector.
8. Foundation capacities are based on soil parameters provided in the geotechnical report by Certified Testing Services, Inc in April 2004.
9. No conclusions, expressed or implied, shall indicate that Armor Tower has made an evaluation of the original design, materials, fabrication, or potential installation or erection deficiencies. Any information contrary to that assumed for the purpose of preparing this analysis could alter the findings and conclusions stated herein.
10. Tower member sizes and geometry are based on tower design drawings completed by Sabre in August 2004. Existing antenna loading is based on customer-supplied data. It is our assumption that this data is complete and accurately reflects the existing conditions of the tower and equipment. Armor Tower has not been commissioned to field-validate this data. Armor Tower reserves the right to add to or modify this report as more information becomes available. Proposed equipment was outlined in "State of Iowa Site List Book9f.xlx" and "State of Iowa Summary using Leased Towers for MW Repeaters.xlsx" files.
11. The investigation of the load carrying capacities of the antenna supporting frames/mounts is outside the scope of this analysis. Antenna mount certification can be completed under separate contract.


03/29/2016 10:00



DESIGNED APPURTENANCE LOADING

TYPE	ELEVATION	TYPE	ELEVATION
5/8"x6' Lighning Rod	350	DB224	300
Flash Beacon Lighting	350	OB Light	265
DB224	345	OB Light	265
6 FT Sidearm	345	OB Light	265
3"OD x 15' Omni	345	3' Sidearm Mount (Empty)	250
6 FT Sidearm	345	3' Sidearm Mount (Empty)	250
3"OD x 15' Omni	345	3' Sidearm Mount (Empty)	250
6 FT Sidearm	345	2" Sch.40 x 7ft	250
DB230-J	345	2" Sch.40 x 7ft	250
TMA	345	2" Sch.40 x 7ft	250
2" Sch.40 x 7ft	345	ice shield 2 ft dish	202
2" Sch.40 x 7ft	345	ice shield 2 ft dish	202
2" Sch.40 x 7ft	345	Flash Beacon Lighting	200
4"Sch40 x 6ft (P-Motorola)	340	Flash Beacon Lighting	200
SB6-W60 (P-Motorola-184.94)	340	DB230-J	125
SC412-HF2LDF (P-Motorola)	325	DB230-J	115
SMK-345-A7 Omni Side Mt Kit (P-Motorola)	325	DB230-J	101
		4"Sch40 x 7ft	100
4"Sch40 x 6ft (P-Motorola)	310	RFS PAD6/59	100
SB4-W60 (P-Motorola-184.94)	310	OB Light	90
3 FT Sidearm	300	OB Light	90
DB224	300	OB Light	90
3 FT Sidearm	300	SB6-W60 (P-Motorola-284.01)	89
3 FT Sidearm	300	4"Sch40 x 4ft (P-Motorola)	89
2" Sch.40 x 7ft	300	BGYD450K	19
2" Sch.40 x 7ft	300	BMYA4503	12
2" Sch.40 x 7ft	300		

TOWER DESIGN NOTES

1. Tower is located in Woodbury County, Iowa.
2. Tower designed for Exposure C to the TIA-222-G Standard.
3. Tower designed for a 90.00 mph basic wind in accordance with the TIA-222-G Standard.
4. Tower is also designed for a 50.00 mph basic wind with 0.60 in ice. Ice is considered to increase in thickness with height.
5. Deflections are based upon a 60.00 mph wind.
6. Tower Structure Class III.
7. Topographic Category 1 with Crest Height of 0.00 ft
8. Connections use galvanized A325 bolts, nuts and locking devices. Installation per TIA/EIA-222 and AISC Specifications.
9. Tower members are "hot dipped" galvanized in accordance with ASTM A123 and ASTM A153 Standards.
10. Welds are fabricated with ER-70S-6 electrodes.
11. ISICS appurtenances are indicated as (P)roposed. All others are existing,
12. TOWER RATING: 178.1%

ALL REACTIONS ARE FACTORED

ARMOR TOWER
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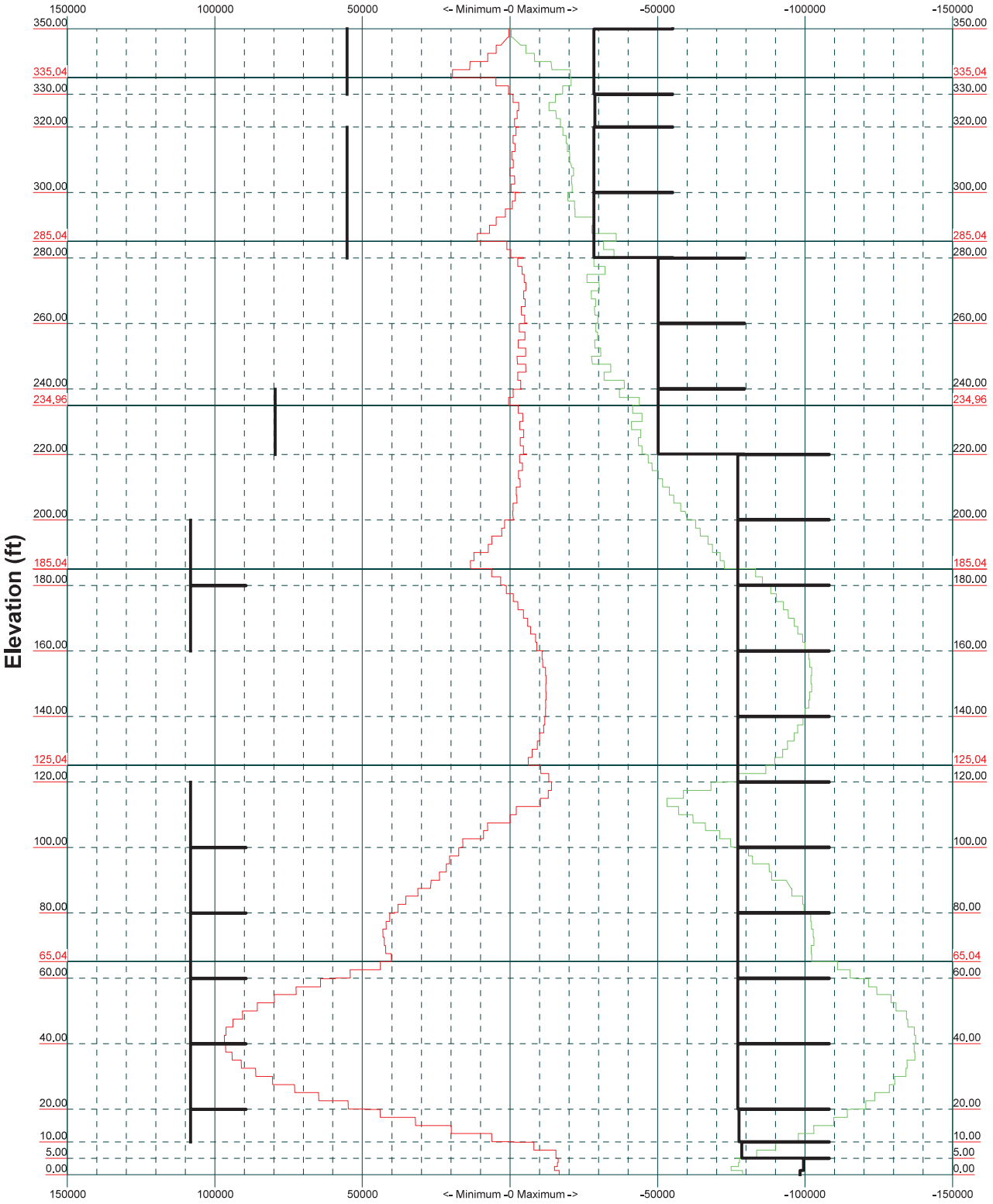
Job: ***350' GUYED TOWER ANALYSIS***			
Project: ***ISICS - 94-Woodbury***			
Client: Pyramid Network Services	Drawn by: PEP	App'd:	
Code: TIA-222-G	Date: 05/12/16	Scale: NTS	
Path: Z:\Pyramid Network Srvc\Iowa State EMS\94 Woodbury Co\2016-05 tower SA\tnx Files\350GT.eri		Dwg No. E-1	

TIA-222-G - 90.00 mph/50.00 mph 0.60 in Ice Exposure C

Leg Capacity ——— Leg Compression (lb)



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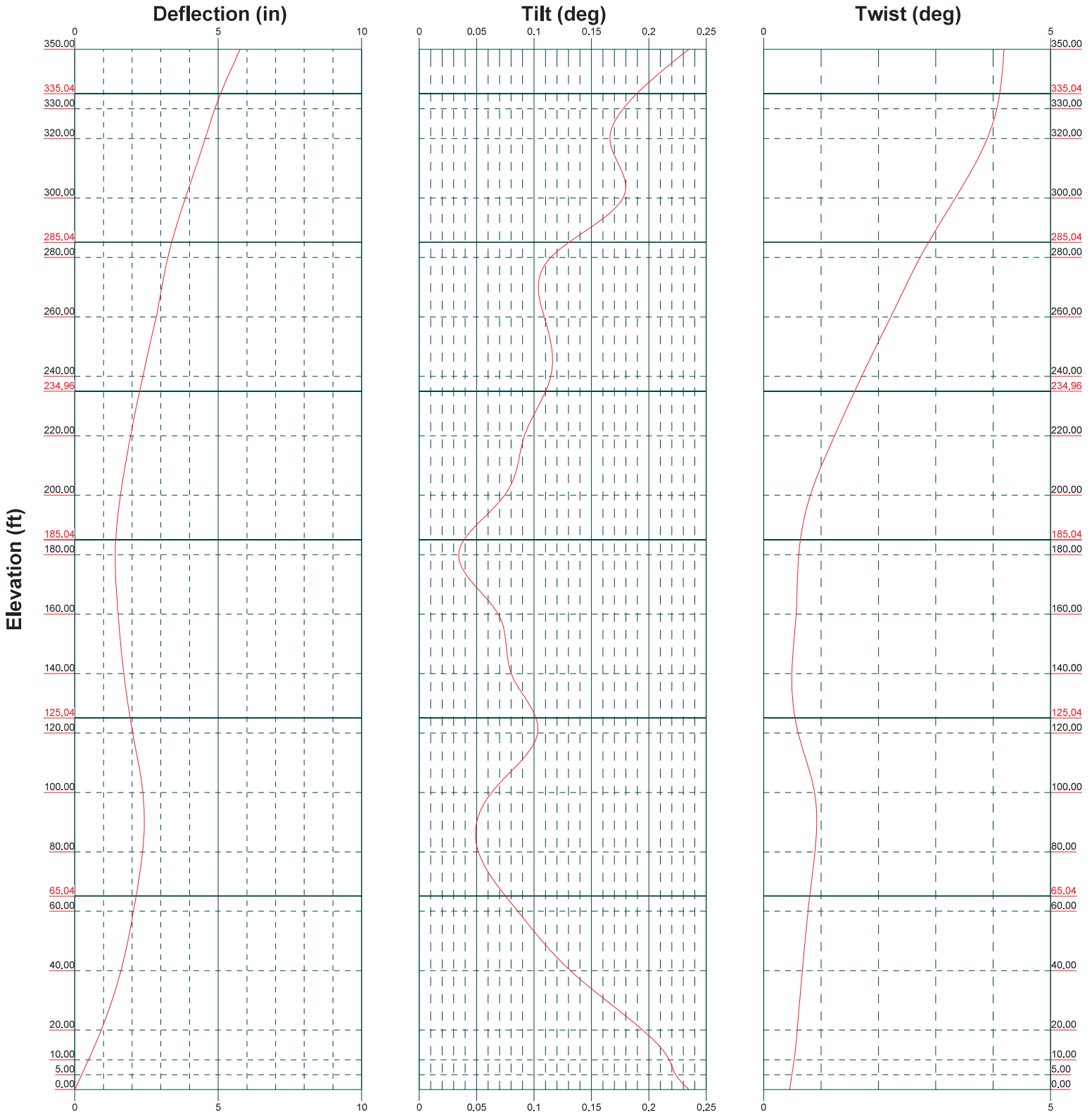
Path: Z:\Pyramid Network Svcs\Iowa State EMS\94 Woodbury Co\2016-05 tower SA\tnx Files\350GT.eri			Dwg No. E-3

TIA-222-G - Service - 60.00 mph

Maximum Values



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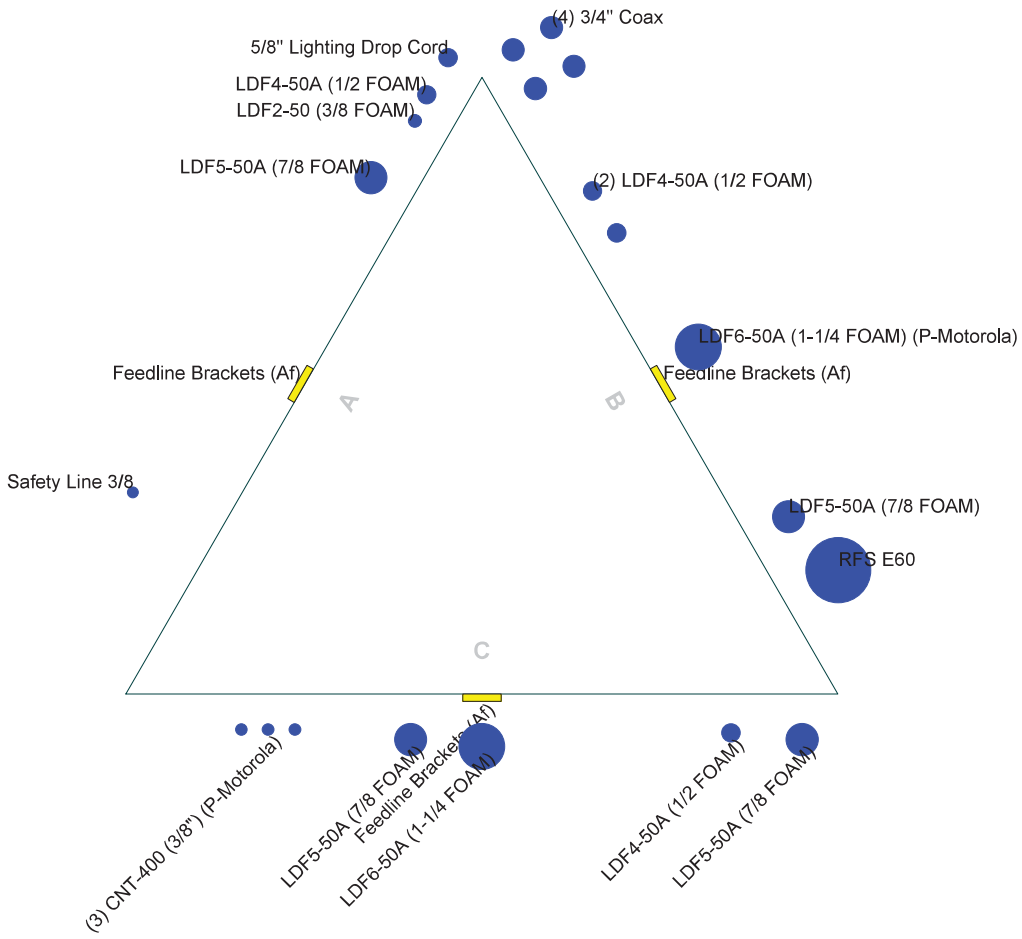
Path: Z:\Pyramid Network Srvc\Iowa State EMS\94 Woodbury Co\2016-05 tower SA\tnx Files\350GT.eri			Dwg No. E-5

Feed Line Plan

Round Flat App In Face App Out Face



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Code: TIA-222-G	Date: 05/12/16		Scale: NTS
Path: Z:\Pyramid Network Srvc\Iowa State EMS\94 Woodbury Co\2016-05 tower SA\tnx Files\350GT.eri			Dwg No. E-7

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Load Combinations

Comb. No.	*Description*
1	Dead Only
2	1.2 Dead+1.6 Wind 0 deg - No Ice+1.0 Guy
3	1.2 Dead+1.6 Wind 30 deg - No Ice+1.0 Guy
4	1.2 Dead+1.6 Wind 60 deg - No Ice+1.0 Guy
5	1.2 Dead+1.6 Wind 90 deg - No Ice+1.0 Guy
6	1.2 Dead+1.6 Wind 120 deg - No Ice+1.0 Guy
7	1.2 Dead+1.6 Wind 150 deg - No Ice+1.0 Guy
8	1.2 Dead+1.6 Wind 180 deg - No Ice+1.0 Guy
9	1.2 Dead+1.6 Wind 210 deg - No Ice+1.0 Guy
10	1.2 Dead+1.6 Wind 240 deg - No Ice+1.0 Guy
11	1.2 Dead+1.6 Wind 270 deg - No Ice+1.0 Guy
12	1.2 Dead+1.6 Wind 300 deg - No Ice+1.0 Guy
13	1.2 Dead+1.6 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
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*	*Horz. Deflection*	*Gov. Load*	*Tilt*	*Twist*
	ft	*in*	*Comb.*	°	°
T1	350 - 330	5.76	33	0.233	4.190
T2	330 - 320	4.88	33	0.178	4.061
T3	320 - 300	4.55	33	0.164	3.894
T4	300 - 280	3.85	33	0.175	3.341
T5	280 - 260	3.24	29	0.116	2.726
T6	260 - 240	2.84	29	0.110	2.217
T7	240 - 220	2.37	29	0.114	1.710
T8	220 - 200	1.95	29	0.091	1.236
T9	200 - 180	1.59	29	0.073	0.815
T10	180 - 160	1.41	29	0.032	0.615
T11	160 - 140	1.51	29	0.069	0.568
T12	140 - 120	1.71	29	0.080	0.490
T13	120 - 100	2.02	29	0.106	0.603

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Pyramid Network Services	PEP

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
T14	100 - 80	2.38	29	0.061	0.888
T15	80 - 60	2.36	29	0.050	0.893
T16	60 - 40	2.04	29	0.085	0.776
T17	40 - 20	1.61	29	0.133	0.678
T18	20 - 10	0.92	31	0.196	0.583
T19	10 - 5	0.48	31	0.219	0.535
T20	5 - 0	0.24	31	0.226	0.495

Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
350.00	5/8"x6' Lighning Rod	33	5.76	0.233	4.190	40231
345.00	DB224	33	5.53	0.218	4.171	40231
340.00	SB6-W60	33	5.29	0.203	4.147	20115
335.04	Guy	33	5.08	0.190	4.112	13448
325.00	SC412-HF2LDF	33	4.71	0.168	3.989	22782
310.00	SB4-W60	33	4.21	0.172	3.643	28663
300.00	DB224	33	3.85	0.175	3.341	52086
285.04	Guy	29	3.37	0.131	2.873	18049
265.00	OB Light	29	2.94	0.107	2.341	55426
250.00	3' Sidearm Mount	29	2.61	0.116	1.962	114653
234.96	Guy	29	2.26	0.109	1.588	35022
202.00	ice shield 2 ft dish	29	1.62	0.078	0.849	30558
200.00	Flash Beacon Lighting	29	1.59	0.073	0.815	27624
185.04	Guy	29	1.43	0.028	0.644	15232
125.04	Guy	29	1.93	0.104	0.531	32139
125.00	DB230-J	29	1.93	0.104	0.532	32120
115.00	DB230-J	29	2.12	0.100	0.682	157936
101.00	DB230-J	29	2.37	0.063	0.879	10423
100.00	RFS PAD6/59	29	2.38	0.061	0.888	10066
90.00	OB Light	29	2.42	0.042	0.923	11210
89.00	SB6-W60	29	2.42	0.041	0.923	11433
65.04	Guy	29	2.14	0.075	0.806	43821
19.00	BGYD450K	31	0.88	0.199	0.579	19750
12.00	BMYA4503	31	0.57	0.216	0.548	27070

Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
T1	350 - 330	59.41	2	2.476	12.177
T2	330 - 320	49.32	2	2.257	11.782
T3	320 - 300	44.68	2	2.215	11.354
T4	300 - 280	35.33	2	2.243	9.574
T5	280 - 260	26.58	2	1.832	7.591
T6	260 - 240	19.49	2	1.587	6.152
T7	240 - 220	14.06	4	1.307	4.717
T8	220 - 200	11.49	4	0.844	3.453
T9	200 - 180	9.36	4	0.466	2.415
T10	180 - 160	8.17	4	0.327	1.908
T11	160 - 140	8.36	4	1.073	1.741
T12	140 - 120	10.45	5	1.895	1.583
T13	120 - 100	16.42	19	2.543	2.584

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Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
T14	100 - 80	27.27	19	2.347	3.683
T15	80 - 60	35.25	19	1.288	3.611
T16	60 - 40	37.87	19	0.570	3.050
T17	40 - 20	33.48	19	2.149	2.638
T18	20 - 10	19.94	19	4.137	2.241
T19	10 - 5	10.41	19	4.747	2.039
T20	5 - 0	5.25	19	4.908	1.888

Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
350.00	5/8"x6' Lighning Rod	2	59.41	2.476	12.177	10606
345.00	DB224	2	56.82	2.414	12.104	10606
340.00	SB6-W60	2	54.25	2.355	12.020	5303
335.04	Guy	2	51.77	2.302	11.917	3545
325.00	SC412-HF2LDF	2	46.98	2.225	11.604	6307
310.00	SB4-W60	2	40.02	2.254	10.577	4864
300.00	DB224	2	35.33	2.243	9.574	5213
285.04	Guy	2	28.64	1.944	8.045	2628
265.00	OB Light	2	21.15	1.634	6.493	5753
250.00	3' Sidearm Mount	3	16.32	1.474	5.431	4132
234.96	Guy	4	13.37	1.196	4.383	1960
202.00	ice shield 2 ft dish	4	9.55	0.511	2.497	2454
200.00	Flash Beacon Lighting	4	9.36	0.466	2.415	1918
185.04	Guy	4	8.34	0.255	1.987	1191
125.04	Guy	19	13.83	2.438	2.302	1962
125.00	DB230-J	19	13.85	2.440	2.305	1969
115.00	DB230-J	19	19.13	2.581	2.895	4702
101.00	DB230-J	19	26.76	2.377	3.651	1520
100.00	RFS PAD6/59	19	27.27	2.347	3.683	1421
90.00	OB Light	19	31.83	1.946	3.784	1060
89.00	SB6-W60	19	32.22	1.893	3.776	1038
65.04	Guy	19	37.78	0.426	3.187	764
19.00	BGYD450K	19	19.05	4.212	2.223	736
12.00	BMYA4503	19	12.42	4.657	2.088	1101

Bolt Design Data

Section No.	Elevation ft	Component Type	Bolt Grade	Maximum Load per Bolt lb	Allowable Load lb	Ratio Load / Allowable	Allowable Ratio	Criteria
T1	350	Leg	A325N	1825.79	29820.60	0.061 ✔	1	Bolt Tension
T2	330	Leg	A325N	1954.40	29820.60	0.066 ✔	1	Bolt Tension
T3	320	Leg	A325N	2294.49	29820.60	0.077 ✔	1	Bolt Tension
T4	300	Leg	A325N	3541.61	29820.60	0.119 ✔	1	Bolt Tension
T5	280	Leg	A325N	3254.89	29820.60	0.109 ✔	1	Bolt Tension
T6	260	Leg	A325N	4164.77	29820.60	0.140 ✔	1	Bolt Tension
T7	240	Leg	A325N	5112.29	29820.60	0.171 ✔	1	Bolt Tension
T8	220	Leg	A325N	6848.94	29820.60	0.230 ✔	1	Bolt Tension

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Section No.	Elevation ft	Component Type	Bolt Grade	Maximum Load per Bolt lb	Allowable Load lb	Ratio Load / Allowable	Allowable Ratio	Criteria
T9	200	Leg	A325N	9714.58	29820.60	0.326 ✓	1	Bolt Tension
		Torque Arm Top@185.042	A325N	2173.38	17892.40	0.121 ✓	1	Bolt Shear
T10	180	Leg	A325N	11233.20	29820.60	0.377 ✓	1	Bolt Tension
T11	160	Leg	A325N	11128.30	29820.60	0.373 ✓	1	Bolt Tension
T12	140	Leg	A325N	8119.74	29820.60	0.272 ✓	1	Bolt Tension
T13	120	Leg	A325N	8431.30	29820.60	0.283 ✓	1	Bolt Tension
T14	100	Leg	A325N	13065.40	29820.60	0.438 ✓	1	Bolt Tension
T15	80	Leg	A325N	19710.20	29820.60	0.661 ✓	1	Bolt Tension
T16	60	Leg	A325N	32220.20	29820.60	**1.080** ✗	1	Bolt Tension
T17	40	Leg	A325N	16421.50	29820.60	0.551 ✓	1	Bolt Tension
T18	20	Leg	A325N	10115.70	29820.60	0.339 ✓	1	Bolt Tension
T19	10	Leg	A325N	8533.64	29820.60	0.286 ✓	1	Bolt Tension

Guy Design Data

Section No.	Elevation ft	Initial Tension lb	Breaking Load lb	Actual T_u lb	Allowable ϕT_n lb	Required S.F.	Actual S.F.
T1	335.04 (A) (1110)	3500.00	35000.04	16959.80	21000.00	1.000	1.238 ✓
	335.04 (B) (1109)	3500.00	35000.04	17128.90	21000.00	1.000	1.226 ✓
	335.04 (C) (1105)	3500.00	35000.04	17070.40	21000.00	1.000	1.230 ✓
T4	285.04 (A) (1116)	2690.00	26900.04	11993.20	16140.00	1.000	1.346 ✓
	285.04 (B) (1115)	2690.00	26900.04	11733.60	16140.00	1.000	1.376 ✓
	285.04 (C) (1111)	2690.00	26900.04	12079.50	16140.00	1.000	1.336 ✓
T7	234.96 (A) (1122)	2080.00	20800.02	9098.50	12480.00	1.000	1.372 ✓
	234.96 (B) (1121)	2080.00	20800.02	8896.63	12480.00	1.000	1.403 ✓
	234.96 (C) (1117)	2080.00	20800.02	9188.38	12480.00	1.000	1.358 ✓
T9	185.04 (A) (1131)	2080.00	20800.02	7827.47	12480.00	1.000	1.594 ✓
	185.04 (A) (1132)	2080.00	20800.02	7746.30	12480.00	1.000	1.611 ✓
	185.04 (B) (1127)	2080.00	20800.02	7541.88	12480.00	1.000	1.655 ✓
	185.04 (B) (1128)	2080.00	20800.02	7561.36	12480.00	1.000	1.650 ✓
	185.04 (C) (1123)	2080.00	20800.02	7777.21	12480.00	1.000	1.605 ✓
	185.04 (C) (1124)	2080.00	20800.02	7850.15	12480.00	1.000	1.590 ✓
T12	125.04 (A) (1140)	2080.00	20800.02	8549.59	12480.00	1.000	1.460 ✓
	125.04 (B) (1139)	2080.00	20800.02	7998.78	12480.00	1.000	1.560 ✓
	125.04 (C) (1135)	2080.00	20800.02	8752.04	12480.00	1.000	1.426 ✓
T15	65.04 (A) (1146)	1540.00	15399.96	11574.00	9240.00	1.000	**0.798** ✗
	65.04 (B) (1145)	1540.00	15399.96	9518.95	9240.00	1.000	**0.971** ✗
	65.04 (C) (1141)	1540.00	15399.96	11885.40	9240.00	1.000	**0.777** ✗

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Compression Checks

Leg Design Data (Compression)

Section No.	Elevation ft	L ft	L_u ft	Kl/r	A in^2	P_u lb	ϕP_n lb	Ratio $\frac{P_u}{\phi P_n}$
T1	350 - 330	20.00	2.48	95.2 K=1.00	1.23	-20682.80	28466.30	0.727 [1] ✓
T2	330 - 320	10.00	2.46	94.4 K=1.00	1.23	-17078.10	28783.70	0.593 [1] ✓
T3	320 - 300	20.00	2.48	95.2 K=1.00	1.23	-21532.30	28466.30	0.756 [1] ✓
T4	300 - 280	20.00	2.48	95.2 K=1.00	1.23	-36004.10	28466.30	**1.265** [1] ✗
T5	280 - 260	20.00	2.48	79.3 K=1.00	1.77	-32236.30	50191.40	0.642 [1] ✓
T6	260 - 240	20.00	2.48	79.3 K=1.00	1.77	-38734.00	50191.40	0.772 [1] ✓
T7	240 - 220	20.00	2.48	79.3 K=1.00	1.77	-44763.00	50191.40	0.892 [1] ✓
T8	220 - 200	20.00	2.48	68.0 K=1.00	2.41	-60002.10	77187.30	0.777 [1] ✓
T9	200 - 180	20.00	2.48	68.0 K=1.00	2.41	-85572.40	77187.30	**1.109** [1] ✗
T10	180 - 160	20.00	2.48	68.0 K=1.00	2.41	-99998.60	77187.30	**1.296** [1] ✗
T11	160 - 140	20.00	2.48	68.0 K=1.00	2.41	-102262.00	77187.30	**1.325** [1] ✗
T12	140 - 120	20.00	2.48	68.0 K=1.00	2.41	-99303.10	77187.30	**1.287** [1] ✗
T13	120 - 100	20.00	2.48	68.0 K=1.00	2.41	-74787.60	77187.30	0.969 [1] ✓
T14	100 - 80	20.00	2.48	68.0 K=1.00	2.41	-99591.30	77187.30	**1.290** [1] ✗
T15	80 - 60	20.00	2.48	68.0 K=1.00	2.41	-115290.00	77187.30	**1.494** [1] ✗
T16	60 - 40	20.00	2.48	68.0 K=1.00	2.41	-137473.00	77187.30	**1.781** [1] ✗
T17	40 - 20	20.00	2.48	68.0 K=1.00	2.41	-137190.00	77187.30	**1.777** [1] ✗
T18	20 - 10	10.00	2.46	67.4 K=1.00	2.41	-114321.00	77625.30	**1.473** [1] ✗
T19	10 - 5	5.00	2.42	66.3 K=1.00	2.41	-90069.90	78497.50	**1.147** [1] ✗
T20	5 - 0	5.13	1.33	36.4 K=1.00	2.41	-78840.50	98264.20	0.802 [1] ✓

ARMOR TOWER ENGINEERING

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Diagonal Design Data (Compression)

Section No.	Elevation ft	L ft	L_u ft	Kl/r	A in^2	P_u lb	ϕP_n lb	Ratio $\frac{P_u}{\phi P_n}$
T1	350 - 330	3.19	3.02	135.3 K=0.70	0.44	-7047.23	5454.43	**1.292** [1] ✗
T2	330 - 320	3.17	3.00	134.6 K=0.70	0.44	-5067.52	5510.30	0.920 [1] ✓
T3	320 - 300	3.19	3.02	135.3 K=0.70	0.44	-6209.96	5454.43	**1.139** [1] ✗
T4	300 - 280	3.19	3.02	135.3 K=0.70	0.44	-7478.21	5454.43	**1.371** [1] ✗
T5	280 - 260	3.19	2.99	133.8 K=0.70	0.44	-5077.17	5576.32	0.910 [1] ✓
T6	260 - 240	3.19	2.99	133.8 K=0.70	0.44	-5526.82	5576.32	0.991 [1] ✓
T7	240 - 220	3.19	2.99	133.8 K=0.70	0.44	-5489.71	5576.32	0.984 [1] ✓
T8	220 - 200	3.19	2.95	132.3 K=0.70	0.44	-4826.69	5696.32	0.847 [1] ✓
T9	200 - 180	3.19	2.95	99.2 K=0.70	0.79	-5598.01	15154.60	0.369 [1] ✓
T10	180 - 160	3.19	2.95	99.2 K=0.70	0.79	-4247.81	15154.60	0.280 [1] ✓
T11	160 - 140	3.19	2.95	132.3 K=0.70	0.44	-3841.01	5696.32	0.674 [1] ✓
T12	140 - 120	3.19	2.95	132.3 K=0.70	0.44	-7062.43	5696.32	**1.240** [1] ✗
T13	120 - 100	3.19	2.95	132.3 K=0.70	0.44	-6821.71	5696.32	**1.198** [1] ✗
T14	100 - 80	3.19	2.95	132.3 K=0.70	0.44	-5470.41	5696.32	0.960 [1] ✓
T15	80 - 60	3.19	2.95	132.3 K=0.70	0.44	-7571.46	5696.32	**1.329** [1] ✗
T16	60 - 40	3.19	2.95	132.3 K=0.70	0.44	-6675.20	5696.32	**1.172** [1] ✗
T17	40 - 20	3.19	2.95	132.3 K=0.70	0.44	-7076.28	5696.32	**1.242** [1] ✗
T18	20 - 10	3.17	2.94	131.6 K=0.70	0.44	-9521.88	5749.78	**1.656** [1] ✗
T19	10 - 5	3.14	2.91	130.3 K=0.70	0.44	-10135.20	5856.83	**1.730** [1] ✗
T20	5 - 0	1.43	1.16	55.8 K=1.00	0.79	-5880.32	21601.00	0.272 [1] ✓

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Horizontal Design Data (Compression)

Section No.	Elevation ft	L ft	L_u ft	Kl/r	A in^2	P_u lb	ϕP_n lb	Ratio $\frac{P_u}{\phi P_n}$
T1	350 - 330	2.00	1.90	84.9 K=0.70	0.44	-1360.16	9791.06	0.139 [1] ✓
T2	330 - 320	2.00	1.90	84.9 K=0.70	0.44	-1128.15	9791.06	0.115 [1] ✓
T3	320 - 300	2.00	1.90	84.9 K=0.70	0.44	-567.09	9791.06	0.058 [1] ✓
T4	300 - 280	2.00	1.90	84.9 K=0.70	0.44	-623.61	9791.06	0.064 [1] ✓
T5	280 - 260	2.00	1.88	84.0 K=0.70	0.44	-558.35	9872.67	0.057 [1] ✓
T6	260 - 240	2.00	1.88	84.0 K=0.70	0.44	-670.89	9872.67	0.068 [1] ✓
T7	240 - 220	2.00	1.88	84.0 K=0.70	0.44	-775.32	9872.67	0.079 [1] ✓
T8	220 - 200	2.00	1.85	83.1 K=0.70	0.44	-1039.27	9954.05	0.104 [1] ✓
T9	200 - 180	2.00	1.85	83.1 K=0.70	0.44	-3218.63	9954.05	0.323 [1] ✓
T10	180 - 160	2.00	1.85	83.1 K=0.70	0.44	-1732.03	9954.05	0.174 [1] ✓
T11	160 - 140	2.00	1.85	83.1 K=0.70	0.44	-1771.24	9954.05	0.178 [1] ✓
T12	140 - 120	2.00	1.85	83.1 K=0.70	0.44	-1719.98	9954.05	0.173 [1] ✓
T13	120 - 100	2.00	1.85	83.1 K=0.70	0.44	-1295.36	9954.05	0.130 [1] ✓
T14	100 - 80	2.00	1.85	83.1 K=0.70	0.44	-1724.97	9954.05	0.173 [1] ✓
T15	80 - 60	2.00	1.85	83.1 K=0.70	0.44	-1996.88	9954.05	0.201 [1] ✓
T16	60 - 40	2.00	1.85	83.1 K=0.70	0.44	-2381.10	9954.05	0.239 [1] ✓
T17	40 - 20	2.00	1.85	83.1 K=0.70	0.44	-2376.21	9954.05	0.239 [1] ✓
T18	20 - 10	2.00	1.85	83.1 K=0.70	0.44	-1980.10	9954.05	0.199 [1] ✓
T19	10 - 5	2.00	1.85	83.1 K=0.70	0.44	-1560.06	9954.05	0.157 [1] ✓
T20	5 - 0	1.48	1.34	64.2 K=1.00	0.79	-1392.25	20483.40	0.068 [1] ✓

Secondary Horizontal Design Data (Compression)

Section No.	Elevation ft	L ft	L_u ft	Kl/r	A in^2	P_u lb	ϕP_n lb	Ratio $\frac{P_u}{\phi P_n}$
T1	350 - 330	1.00	0.95	60.7 K=1.00	0.44	-0.03	11791.10	0.000 [1] ✓
T2	330 - 320	1.00	0.95	60.7 K=1.00	0.44	-0.03	11791.10	0.000 [1] ✓
T3	320 - 300	1.00	0.95	60.7 K=1.00	0.44	-0.03	11791.10	0.000 [1] ✓
T4	300 - 280	1.00	0.95	60.7 K=1.00	0.44	-0.04	11791.10	0.000 [1] ✓

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Section No.	Elevation	L	L_u	Kl/r	A	P_u	ϕP_n	Ratio $\frac{P_u}{\phi P_n}$
	ft	ft	ft		in^2	lb	lb	
T5	280 - 260	1.00	0.94	60.0 K=1.00	0.44	-0.04	11841.20	0.000 [1] ✔
T6	260 - 240	1.00	0.94	60.0 K=1.00	0.44	-0.05	11841.20	0.000 [1] ✔
T7	240 - 220	1.00	0.94	60.0 K=1.00	0.44	-0.05	11841.20	0.000 [1] ✔
T8	220 - 200	1.00	0.93	59.4 K=1.00	0.44	-0.04	11890.90	0.000 [1] ✔
T9	200 - 180	1.00	0.93	59.4 K=1.00	0.44	-0.03	11890.90	0.000 [1] ✔
T10	180 - 160	1.00	0.93	59.4 K=1.00	0.44	-0.07	11890.90	0.000 [1] ✔
T11	160 - 140	1.00	0.93	59.4 K=1.00	0.44	-0.12	11890.90	0.000 [1] ✔
T12	140 - 120	1.00	0.93	59.4 K=1.00	0.44	-0.17	11890.90	0.000 [1] ✔
T13	120 - 100	1.00	0.93	59.4 K=1.00	0.44	-0.18	11890.90	0.000 [1] ✔
T14	100 - 80	1.00	0.93	59.4 K=1.00	0.44	-0.15	11890.90	0.000 [1] ✔
T15	80 - 60	1.00	0.93	59.4 K=1.00	0.44	-0.08	11890.90	0.000 [1] ✔
T16	60 - 40	1.00	0.93	59.4 K=1.00	0.44	-0.08	11890.90	0.000 [1] ✔
T17	40 - 20	1.00	0.93	59.4 K=1.00	0.44	-0.15	11890.90	0.000 [1] ✔
T18	20 - 10	1.00	0.93	59.4 K=1.00	0.44	-0.17	11890.90	0.000 [1] ✔
T19	10 - 5	1.00	0.93	59.4 K=1.00	0.44	-0.16	11890.90	0.000 [1] ✔

Top Girt Design Data (Compression)

Section No.	Elevation	L	L_u	Kl/r	A	P_u	ϕP_n	Ratio $\frac{P_u}{\phi P_n}$
	ft	ft	ft		in^2	lb	lb	
T1	350 - 330	2.00	1.90	84.9 K=0.70	0.44	-118.20	9791.06	0.012 [1] ✔
T2	330 - 320	2.00	1.90	84.9 K=0.70	0.44	-652.98	9791.06	0.067 [1] ✔
T3	320 - 300	2.00	1.90	84.9 K=0.70	0.44	-1210.85	9791.06	0.124 [1] ✔
T4	300 - 280	2.00	1.90	84.9 K=0.70	0.44	-1817.13	9791.06	0.186 [1] ✔
T5	280 - 260	2.00	1.88	84.0 K=0.70	0.44	-1169.80	9872.67	0.118 [1] ✔
T6	260 - 240	2.00	1.88	84.0 K=0.70	0.44	-849.31	9872.67	0.086 [1] ✔
T7	240 - 220	2.00	1.88	84.0 K=0.70	0.44	-1124.91	9872.67	0.114 [1] ✔
T8	220 - 200	2.00	1.85	83.1 K=0.70	0.44	-623.34	9954.05	0.063 [1] ✔
T9	200 - 180	2.00	1.85	83.1 K=0.70	0.44	-749.50	9954.05	0.075 [1] ✔
T10	180 - 160	2.00	1.85	83.1 K=0.70	0.44	-506.08	9954.05	0.051 [1] ✔
T11	160 - 140	2.00	1.85	83.1 K=0.70	0.44	-356.83	9954.05	0.036 [1] ✔

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Section No.	Elevation	L	L_u	Kl/r	A	P_u	ϕP_n	Ratio $\frac{P_u}{\phi P_n}$
	ft	ft	ft		in^2	lb	lb	
T12	140 - 120	2.00	1.85	83.1 K=0.70	0.44	-390.12	9954.05	0.039 [1] ✔
T13	120 - 100	2.00	1.85	83.1 K=0.70	0.44	-721.03	9954.05	0.072 [1] ✔
T14	100 - 80	2.00	1.85	83.1 K=0.70	0.44	-165.06	9954.05	0.017 [1] ✔
T15	80 - 60	2.00	1.85	83.1 K=0.70	0.44	-355.64	9954.05	0.036 [1] ✔
T16	60 - 40	2.00	1.85	83.1 K=0.70	0.44	-395.94	9954.05	0.040 [1] ✔
T17	40 - 20	2.00	1.85	83.1 K=0.70	0.44	-379.90	9954.05	0.038 [1] ✔
T18	20 - 10	2.00	1.85	83.1 K=0.70	0.44	-1020.65	9954.05	0.103 [1] ✔
T19	10 - 5	2.00	1.85	83.1 K=0.70	0.44	-1293.38	9954.05	0.130 [1] ✔

Bottom Girt Design Data (Compression)

Section No.	Elevation	L	L_u	Kl/r	A	P_u	ϕP_n	Ratio $\frac{P_u}{\phi P_n}$
	ft	ft	ft		in^2	lb	lb	
T1	350 - 330	2.00	1.90	84.9 K=0.70	0.44	-674.55	9791.06	0.069 [1] ✔
T2	330 - 320	2.00	1.90	84.9 K=0.70	0.44	-1090.07	9791.06	0.111 [1] ✔
T3	320 - 300	2.00	1.90	84.9 K=0.70	0.44	-1325.90	9791.06	0.135 [1] ✔
T4	300 - 280	2.00	1.90	84.9 K=0.70	0.44	-994.11	9791.06	0.102 [1] ✔
T5	280 - 260	2.00	1.88	84.0 K=0.70	0.44	-729.34	9872.67	0.074 [1] ✔
T6	260 - 240	2.00	1.88	84.0 K=0.70	0.44	-944.29	9872.67	0.096 [1] ✔
T7	240 - 220	2.00	1.88	84.0 K=0.70	0.44	-469.71	9872.67	0.048 [1] ✔
T8	220 - 200	2.00	1.85	83.1 K=0.70	0.44	-488.05	9954.05	0.049 [1] ✔
T9	200 - 180	2.00	1.85	83.1 K=0.70	0.44	-573.80	9954.05	0.058 [1] ✔
T10	180 - 160	2.00	1.85	83.1 K=0.70	0.44	-476.67	9954.05	0.048 [1] ✔
T11	160 - 140	2.00	1.85	83.1 K=0.70	0.44	-383.37	9954.05	0.039 [1] ✔
T12	140 - 120	2.00	1.85	83.1 K=0.70	0.44	-831.43	9954.05	0.084 [1] ✔
T13	120 - 100	2.00	1.85	83.1 K=0.70	0.44	-871.77	9954.05	0.088 [1] ✔
T14	100 - 80	2.00	1.85	83.1 K=0.70	0.44	-310.45	9954.05	0.031 [1] ✔
T15	80 - 60	2.00	1.85	83.1 K=0.70	0.44	-1029.17	9954.05	0.103 [1] ✔
T16	60 - 40	2.00	1.85	83.1 K=0.70	0.44	-357.04	9954.05	0.036 [1] ✔
T17	40 - 20	2.00	1.85	83.1 K=0.70	0.44	-453.65	9954.05	0.046 [1] ✔
T18	20 - 10	2.00	1.85	83.1 K=0.70	0.44	-518.51	9954.05	0.052 [1] ✔

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Section No.	Elevation	L	L_u	Kl/r	A	P_u	ϕP_n	Ratio $\frac{P_u}{\phi P_n}$
	ft	ft	ft		in^2	lb	lb	

Torque-Arm Top Design Data

Section No.	Elevation	L	L_u	Kl/r	A	P_u	ϕP_n	Ratio $\frac{P_u}{\phi P_n}$
	ft	ft	ft		in^2	lb	lb	
T9	200 - 180 (1125)	2.00	1.93	28.9 K=1.00	6.09	-143.87	188804.00	0.001
T9	200 - 180 (1126)	2.00	1.93	28.9 K=1.00	6.09	-343.42	188804.00	0.002
T9	200 - 180 (1129)	2.00	1.93	28.9 K=1.00	6.09	-909.35	188804.00	0.005
T9	200 - 180 (1130)	2.00	1.93	28.9 K=1.00	6.09	-530.32	188804.00	0.003
T9	200 - 180 (1133)	2.00	1.93	28.9 K=1.00	6.09	-376.01	188804.00	0.002
T9	200 - 180 (1134)	2.00	1.93	28.9 K=1.00	6.09	-654.30	188804.00	0.003

Torque-Arm Top Bending Design Data

Section No.	Elevation	M_{ux}	ϕM_{nx}	Ratio $\frac{M_{ux}}{\phi M}$	M_{uy}	ϕM_{ny}	Ratio $\frac{M_{uy}}{\phi M_{ny}}$
	ft	kip-ft	kip-ft		kip-ft	kip-ft	
T9	200 - 180 (1125)	-8	58	0.137	0	9	0.000
T9	200 - 180 (1126)	-8	58	0.135	0	9	0.000
T9	200 - 180 (1129)	-8	58	0.137	0	9	0.000
T9	200 - 180 (1130)	-7	58	0.123	0	9	0.000
T9	200 - 180 (1133)	-7	58	0.122	0	9	0.000
T9	200 - 180 (1134)	-8	58	0.132	0	9	0.000

Torque-Arm Top Interaction Design Data

Section No.	Elevation	Ratio $\frac{P_u}{\phi P_n}$	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	Ratio $\frac{M_{uy}}{\phi M_{ny}}$	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
	ft						
T9	200 - 180 (1125)	0.001	0.137	0.000	0.137 ✔	1.000	4.8.1 ✔
T9	200 - 180 (1126)	0.002	0.135	0.000	0.136 ✔	1.000	4.8.1 ✔
T9	200 - 180 (1129)	0.005	0.137	0.000	0.139 ✔	1.000	4.8.1 ✔
T9	200 - 180 (1130)	0.003	0.123	0.000	0.124 ✔	1.000	4.8.1 ✔
T9	200 - 180 (1133)	0.002	0.122	0.000	0.123 ✔	1.000	4.8.1 ✔
T9	200 - 180 (1134)	0.003	0.132	0.000	0.134 ✔	1.000	4.8.1 ✔

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Tension Checks

Leg Design Data (Tension)

Section No.	Elevation	L	L_u	Kl/r	A	P_u	ϕP_n	Ratio $\frac{P_u}{\phi P_n}$
	ft	ft	ft		in^2	lb	lb	
T1	350 - 330	20.00	2.48	95.2	1.23	19473.80	55223.30	0.353 [1] ✔
T3	320 - 300	20.00	2.48	95.2	1.23	58.99	55223.30	0.001 [1] ✔
T4	300 - 280	20.00	2.48	95.2	1.23	11090.40	55223.30	0.201 [1] ✔
T7	240 - 220	20.00	2.48	79.3	1.77	505.86	79521.60	0.006 [1] ✔
T9	200 - 180	20.00	2.48	68.0	2.41	13403.40	108238.00	0.124 [1] ✔
T10	180 - 160	20.00	0.08	2.3	2.41	1907.68	108238.00	0.018 [1] ✔
T13	120 - 100	20.00	0.08	2.3	2.41	16255.20	108238.00	0.150 [1] ✔
T14	100 - 80	20.00	0.08	2.3	2.41	39196.30	108238.00	0.362 [1] ✔
T15	80 - 60	20.00	0.08	2.3	2.41	59130.70	108238.00	0.546 [1] ✔
T16	60 - 40	20.00	2.48	68.0	2.41	96798.70	108238.00	0.894 [1] ✔
T17	40 - 20	20.00	0.08	2.3	2.41	96659.20	108238.00	0.893 [1] ✔
T18	20 - 10	10.00	0.08	2.3	2.41	49263.70	108238.00	0.455 [1] ✔

Diagonal Design Data (Tension)

Section No.	Elevation	L	L_u	Kl/r	A	P_u	ϕP_n	Ratio $\frac{P_u}{\phi P_n}$
	ft	ft	ft		in^2	lb	lb	
T1	350 - 330	3.19	3.02	193.2	0.44	7166.06	14313.90	0.501 [1] ✔
T2	330 - 320	3.17	3.00	192.3	0.44	4836.98	14313.90	0.338 [1] ✔
T3	320 - 300	3.19	3.02	193.2	0.44	5707.90	14313.90	0.399 [1] ✔
T4	300 - 280	3.19	3.02	193.2	0.44	7327.65	14313.90	0.512 [1] ✔
T5	280 - 260	3.19	2.99	191.1	0.44	5374.82	14313.90	0.375 [1] ✔
T6	260 - 240	3.19	2.99	191.1	0.44	4835.75	14313.90	0.338 [1] ✔
T7	240 - 220	3.19	2.99	191.1	0.44	5427.42	14313.90	0.379 [1] ✔

ARMOR TOWER ENGINEERING

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Section No.	Elevation	L	L_u	Kl/r	A	P_u	ϕP_n	Ratio $\frac{P_u}{\phi P_n}$
	ft	ft	ft		in^2	lb	lb	
T8	220 - 200	3.19	2.95	189.0	0.44	3807.09	14313.90	0.266 [1] ✓
T9	200 - 180	3.19	2.95	141.7	0.79	5315.42	25446.90	0.209 [1] ✓
T10	180 - 160	3.19	2.95	141.7	0.79	3748.03	25446.90	0.147 [1] ✓
T11	160 - 140	3.19	2.95	189.0	0.44	2955.01	14313.90	0.206 [1] ✓
T12	140 - 120	3.19	2.95	189.0	0.44	5788.52	14313.90	0.404 [1] ✓
T13	120 - 100	3.19	2.95	189.0	0.44	5940.31	14313.90	0.415 [1] ✓
T14	100 - 80	3.19	2.95	189.0	0.44	4557.03	14313.90	0.318 [1] ✓
T15	80 - 60	3.19	2.95	189.0	0.44	6506.71	14313.90	0.455 [1] ✓
T16	60 - 40	3.19	2.95	189.0	0.44	5497.67	14313.90	0.384 [1] ✓
T17	40 - 20	3.19	2.95	189.0	0.44	6386.98	14313.90	0.446 [1] ✓
T18	20 - 10	3.17	2.94	188.0	0.44	8653.56	14313.90	0.605 [1] ✓
T19	10 - 5	3.14	2.91	186.1	0.44	8863.35	14313.90	0.619 [1] ✓
T20	5 - 0	1.43	1.16	55.8	0.79	2366.85	25446.90	0.093 [1] ✓

Horizontal Design Data (Tension)

Section No.	Elevation	L	L_u	Kl/r	A	P_u	ϕP_n	Ratio $\frac{P_u}{\phi P_n}$
	ft	ft	ft		in^2	lb	lb	
T1	350 - 330	2.00	1.90	121.3	0.44	2043.44	14313.90	0.143 [1] ✓
T2	330 - 320	2.00	1.90	121.3	0.44	1508.98	14313.90	0.105 [1] ✓
T3	320 - 300	2.00	1.90	121.3	0.44	698.68	14313.90	0.049 [1] ✓
T4	300 - 280	2.00	1.90	121.3	0.44	1368.20	14313.90	0.096 [1] ✓
T5	280 - 260	2.00	1.88	120.0	0.44	558.35	14313.90	0.039 [1] ✓
T6	260 - 240	2.00	1.88	120.0	0.44	670.89	14313.90	0.047 [1] ✓
T7	240 - 220	2.00	1.88	120.0	0.44	1018.26	14313.90	0.071 [1] ✓
T8	220 - 200	2.00	1.85	118.7	0.44	1039.27	14313.90	0.073 [1] ✓
T9	200 - 180	2.00	1.85	118.7	0.44	3700.31	14313.90	0.259 [1] ✓
T10	180 - 160	2.00	1.85	118.7	0.44	1732.03	14313.90	0.121 [1] ✓
T11	160 - 140	2.00	1.85	118.7	0.44	1771.24	14313.90	0.124 [1] ✓
T12	140 - 120	2.00	1.85	118.7	0.44	1719.98	14313.90	0.120 [1] ✓
T13	120 - 100	2.00	1.85	118.7	0.44	1295.36	14313.90	0.090 [1] ✓
T14	100 - 80	2.00	1.85	118.7	0.44	1724.97	14313.90	0.121 [1] ✓
T15	80 - 60	2.00	1.85	118.7	0.44	1996.88	14313.90	0.140 [1] ✓
T16	60 - 40	2.00	1.85	118.7	0.44	2381.10	14313.90	0.166 [1] ✓
T17	40 - 20	2.00	1.85	118.7	0.44	2376.21	14313.90	0.166 [1] ✓
T18	20 - 10	2.00	1.85	118.7	0.44	1980.10	14313.90	0.138 [1] ✓

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Section No.	Elevation	L	L_u	Kl/r	A	P_u	ϕP_n	Ratio $\frac{P_u}{\phi P_n}$
	ft	ft	ft		in^2	lb	lb	
T19	10 - 5	2.00	1.85	118.7	0.44	1560.06	14313.90	0.109 [1] ✓
T20	5 - 0	0.52	0.37	17.8	0.79	2047.60	25446.90	0.080 [1] ✓

Secondary Horizontal Design Data (Tension)

Section No.	Elevation	L	L_u	Kl/r	A	P_u	ϕP_n	Ratio $\frac{P_u}{\phi P_n}$
	ft	ft	ft		in^2	lb	lb	
T1	350 - 330	1.00	0.95	60.7	0.44	0.04	14313.90	0.000 [1] ✓
T2	330 - 320	1.00	0.95	60.7	0.44	0.04	14313.90	0.000 [1] ✓
T3	320 - 300	1.00	0.95	60.7	0.44	0.05	14313.90	0.000 [1] ✓
T4	300 - 280	1.00	0.95	60.7	0.44	0.05	14313.90	0.000 [1] ✓
T5	280 - 260	1.00	0.94	60.0	0.44	0.06	14313.90	0.000 [1] ✓
T6	260 - 240	1.00	0.94	60.0	0.44	0.06	14313.90	0.000 [1] ✓
T7	240 - 220	1.00	0.94	60.0	0.44	0.06	14313.90	0.000 [1] ✓
T8	220 - 200	1.00	0.93	59.4	0.44	0.05	14313.90	0.000 [1] ✓
T9	200 - 180	1.00	0.93	59.4	0.44	0.03	14313.90	0.000 [1] ✓
T10	180 - 160	1.00	0.93	59.4	0.44	0.06	14313.90	0.000 [1] ✓
T11	160 - 140	1.00	0.93	59.4	0.44	0.10	14313.90	0.000 [1] ✓
T12	140 - 120	1.00	0.93	59.4	0.44	0.13	14313.90	0.000 [1] ✓
T13	120 - 100	1.00	0.93	59.4	0.44	0.13	14313.90	0.000 [1] ✓
T14	100 - 80	1.00	0.93	59.4	0.44	0.10	14313.90	0.000 [1] ✓
T15	80 - 60	1.00	0.93	59.4	0.44	0.05	14313.90	0.000 [1] ✓
T16	60 - 40	1.00	0.93	59.4	0.44	0.12	14313.90	0.000 [1] ✓
T17	40 - 20	1.00	0.93	59.4	0.44	0.23	14313.90	0.000 [1] ✓
T18	20 - 10	1.00	0.93	59.4	0.44	0.25	14313.90	0.000 [1] ✓
T19	10 - 5	1.00	0.93	59.4	0.44	0.24	14313.90	0.000 [1] ✓

Top Girt Design Data (Tension)

Section No.	Elevation	L	L_u	Kl/r	A	P_u	ϕP_n	Ratio $\frac{P_u}{\phi P_n}$
	ft	ft	ft		in^2	lb	lb	
T1	350 - 330	2.00	1.90	121.3	0.44	137.25	14313.90	0.010 [1] ✓
T2	330 - 320	2.00	1.90	121.3	0.44	665.85	14313.90	0.047 [1] ✓
T3	320 - 300	2.00	1.90	121.3	0.44	1067.70	14313.90	0.075 [1] ✓
T4	300 - 280	2.00	1.90	121.3	0.44	1762.34	14313.90	0.123 [1] ✓
T5	280 - 260	2.00	1.88	120.0	0.44	1040.31	14313.90	0.073 [1] ✓
T6	260 - 240	2.00	1.88	120.0	0.44	797.39	14313.90	0.056 [1] ✓
T7	240 - 220	2.00	1.88	120.0	0.44	1059.21	14313.90	0.074 [1] ✓

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Section No.	Elevation	L	L_u	Kl/r	A	P_u	ϕP_n	Ratio $\frac{P_u}{\phi P_n}$
	ft	ft	ft		in^2	lb	lb	
T8	220 - 200	2.00	1.85	118.7	0.44	618.27	14313.90	0.043 [1] ✓
T9	200 - 180	2.00	1.85	118.7	0.44	804.29	14313.90	0.056 [1] ✓
T10	180 - 160	2.00	1.85	118.7	0.44	754.26	14313.90	0.053 [1] ✓
T11	160 - 140	2.00	1.85	118.7	0.44	636.09	14313.90	0.044 [1] ✓
T12	140 - 120	2.00	1.85	118.7	0.44	626.33	14313.90	0.044 [1] ✓
T13	120 - 100	2.00	1.85	118.7	0.44	1202.01	14313.90	0.084 [1] ✓
T14	100 - 80	2.00	1.85	118.7	0.44	773.28	14313.90	0.054 [1] ✓
T15	80 - 60	2.00	1.85	118.7	0.44	593.08	14313.90	0.041 [1] ✓
T16	60 - 40	2.00	1.85	118.7	0.44	644.21	14313.90	0.045 [1] ✓
T17	40 - 20	2.00	1.85	118.7	0.44	363.64	14313.90	0.025 [1] ✓
T18	20 - 10	2.00	1.85	118.7	0.44	855.09	14313.90	0.060 [1] ✓
T19	10 - 5	2.00	1.85	118.7	0.44	996.52	14313.90	0.070 [1] ✓
T20	5 - 0	1.97	1.82	116.5	0.44	5898.53	14313.90	0.412 [1] ✓

Bottom Girt Design Data (Tension)

Section No.	Elevation	L	L_u	Kl/r	A	P_u	ϕP_n	Ratio $\frac{P_u}{\phi P_n}$
	ft	ft	ft		in^2	lb	lb	
T1	350 - 330	2.00	1.90	121.3	0.44	733.01	14313.90	0.051 [1] ✓
T2	330 - 320	2.00	1.90	121.3	0.44	1284.05	14313.90	0.090 [1] ✓
T3	320 - 300	2.00	1.90	121.3	0.44	1508.29	14313.90	0.105 [1] ✓
T4	300 - 280	2.00	1.90	121.3	0.44	1235.27	14313.90	0.086 [1] ✓
T5	280 - 260	2.00	1.88	120.0	0.44	917.67	14313.90	0.064 [1] ✓
T6	260 - 240	2.00	1.88	120.0	0.44	1162.32	14313.90	0.081 [1] ✓
T7	240 - 220	2.00	1.88	120.0	0.44	698.93	14313.90	0.049 [1] ✓
T8	220 - 200	2.00	1.85	118.7	0.44	736.78	14313.90	0.051 [1] ✓
T9	200 - 180	2.00	1.85	118.7	0.44	751.04	14313.90	0.052 [1] ✓
T10	180 - 160	2.00	1.85	118.7	0.44	613.61	14313.90	0.043 [1] ✓
T11	160 - 140	2.00	1.85	118.7	0.44	560.54	14313.90	0.039 [1] ✓
T12	140 - 120	2.00	1.85	118.7	0.44	986.05	14313.90	0.069 [1] ✓
T13	120 - 100	2.00	1.85	118.7	0.44	1036.77	14313.90	0.072 [1] ✓
T14	100 - 80	2.00	1.85	118.7	0.44	474.49	14313.90	0.033 [1] ✓
T15	80 - 60	2.00	1.85	118.7	0.44	776.10	14313.90	0.054 [1] ✓
T16	60 - 40	2.00	1.85	118.7	0.44	391.10	14313.90	0.027 [1] ✓
T17	40 - 20	2.00	1.85	118.7	0.44	712.16	14313.90	0.050 [1] ✓
T18	20 - 10	2.00	1.85	118.7	0.44	1305.51	14313.90	0.091 [1] ✓
T19	10 - 5	2.00	1.85	118.7	0.44	5834.85	14313.90	0.408 [1] ✓

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Top Guy Pull-Off Design Data (Tension)

Section No.	Elevation	L	L_u	Kl/r	A	P_u	ϕP_n	Ratio $\frac{P_u}{\phi P_n}$
	ft	ft	ft		in^2	lb	lb	
T1	350 - 330	2.00	1.90	210.2	1.13	5203.57	36450.00	0.143 [1] ✓
T4	300 - 280	2.00	1.90	210.2	1.13	3484.09	36450.00	0.096 [1] ✓
T7	240 - 220	2.00	1.88	207.8	1.13	2592.97	36450.00	0.071 [1] ✓
T12	140 - 120	2.00	1.85	205.5	1.13	3287.46	36450.00	0.090 [1] ✓
T15	80 - 60	2.00	1.85	205.5	1.13	4970.81	36450.00	0.136 [1] ✓

Torque-Arm Top Design Data

Section No.	Elevation	L	L_u	Kl/r	A	P_u	ϕP_n	Ratio $\frac{P_u}{\phi P_n}$
	ft	ft	ft		in^2	lb	lb	
T9	200 - 180 (1125)	2.00	1.93	28.9	4.38	1568.12	190636.00	0.008
T9	200 - 180 (1126)	2.00	1.93	28.9	4.38	1566.06	190636.00	0.008
T9	200 - 180 (1129)	2.00	1.93	28.9	4.38	1752.37	190636.00	0.009
T9	200 - 180 (1130)	2.00	1.93	28.9	4.38	1570.33	190636.00	0.008
T9	200 - 180 (1133)	2.00	1.93	28.9	4.38	1595.06	190636.00	0.008
T9	200 - 180 (1134)	2.00	1.93	28.9	4.38	1680.60	190636.00	0.009

Torque-Arm Top Bending Design Data

Section No.	Elevation	M_{ux}	ϕM_{nx}	Ratio $\frac{M_{ux}}{\phi M}$	M_{uy}	ϕM_{ny}	Ratio $\frac{M_{uy}}{\phi M_{ny}}$
	ft	kip-ft	kip-ft		kip-ft	kip-ft	
T9	200 - 180 (1125)	-11	58	0.192	0	9	0.000
T9	200 - 180 (1126)	-11	58	0.191	0	9	0.000
T9	200 - 180 (1129)	-11	58	0.193	0	9	0.000
T9	200 - 180 (1130)	-10	58	0.176	0	9	0.000
T9	200 - 180 (1133)	-10	58	0.176	0	9	0.000
T9	200 - 180 (1134)	-11	58	0.189	0	9	0.000

Torque-Arm Top Interaction Design Data

Section No.	Elevation	Ratio $\frac{P_u}{\phi P_n}$	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	Ratio $\frac{M_{uy}}{\phi M_{ny}}$	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
	ft						
T9	200 - 180 (1125)	0.008	0.192	0.000	0.196 ✓	1.000	4.8.1 ✓
T9	200 - 180 (1126)	0.008	0.191	0.000	0.195 ✓	1.000	4.8.1 ✓
T9	200 - 180 (1129)	0.009	0.193	0.000	0.198 ✓	1.000	4.8.1 ✓
T9	200 - 180 (1130)	0.008	0.176	0.000	0.180 ✓	1.000	4.8.1 ✓
T9	200 - 180 (1133)	0.008	0.176	0.000	0.181 ✓	1.000	4.8.1 ✓
T9	200 - 180 (1134)	0.009	0.189	0.000	0.193 ✓	1.000	4.8.1 ✓

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Section Capacity Table

Section No.	Elevation ft	Component Type	Critical Element	P lb	ϕP_{allow} lb	% Capacity	Pass Fail
T1	350 - 330	Leg	2	-20682.80	28466.30	72.7	Pass
T2	330 - 320	Leg	64	-17078.10	28783.70	59.3	Pass
T3	320 - 300	Leg	98	-21532.30	28466.30	75.6	Pass
T4	300 - 280	Leg	161	-36004.10	28466.30	126.5	Fail
T5	280 - 260	Leg	223	-32236.30	50191.40	64.2	Pass
T6	260 - 240	Leg	285	-38734.00	50191.40	77.2	Pass
T7	240 - 220	Leg	346	-44763.00	50191.40	89.2	Pass
T8	220 - 200	Leg	408	-60002.10	77187.30	77.7	Pass
T9	200 - 180	Leg	470	-85572.40	77187.30	110.9	Fail
T10	180 - 160	Leg	532	-99998.60	77187.30	129.6	Fail
T11	160 - 140	Leg	594	-102262.00	77187.30	132.5	Fail
T12	140 - 120	Leg	656	-99303.10	77187.30	128.7	Fail
T13	120 - 100	Leg	719	-74787.60	77187.30	96.9	Pass
T14	100 - 80	Leg	779	-99591.30	77187.30	129.0	Fail
T15	80 - 60	Leg	843	-115290.00	77187.30	149.4	Fail
T16	60 - 40	Leg	903	-137473.00	77187.30	178.1	Fail
T17	40 - 20	Leg	965	-137190.00	77187.30	177.7	Fail
T18	20 - 10	Leg	1029	-114321.00	77625.30	147.3	Fail
T19	10 - 5	Leg	1063	-90069.90	78497.50	114.7	Fail
T20	5 - 0	Leg	1081	-78840.50	98264.20	80.2	Pass
T1	350 - 330	Diagonal	32	-7047.23	5454.43	129.2	Fail
T2	330 - 320	Diagonal	74	-5067.52	5510.30	92.0	Pass
T3	320 - 300	Diagonal	107	-6209.96	5454.43	113.9	Fail
T4	300 - 280	Diagonal	183	-7478.21	5454.43	137.1	Fail
T5	280 - 260	Diagonal	274	-5077.17	5576.32	91.0	Pass
T6	260 - 240	Diagonal	293	-5526.82	5576.32	99.1	Pass
T7	240 - 220	Diagonal	397	-5489.71	5576.32	98.4	Pass
T8	220 - 200	Diagonal	417	-4826.69	5696.32	84.7	Pass
T9	200 - 180	Diagonal	493	-5598.01	15154.60	36.9	Pass
T10	180 - 160	Diagonal	591	-4247.81	15154.60	28.0	Pass
T11	160 - 140	Diagonal	653	-3841.01	5696.32	67.4	Pass
T12	140 - 120	Diagonal	664	-7062.43	5696.32	124.0	Fail
T13	120 - 100	Diagonal	768	-6821.71	5696.32	119.8	Fail
T14	100 - 80	Diagonal	838	-5470.41	5696.32	96.0	Pass
T15	80 - 60	Diagonal	858	-7571.46	5696.32	132.9	Fail
T16	60 - 40	Diagonal	962	-6675.20	5696.32	117.2	Fail
T17	40 - 20	Diagonal	975	-7076.28	5696.32	124.2	Fail
T18	20 - 10	Diagonal	1037	-9521.88	5749.78	165.6	Fail
T19	10 - 5	Diagonal	1077	-10135.20	5856.83	173.0	Fail
T20	5 - 0	Diagonal	1092	-5880.32	21601.00	27.2	Pass
T1	350 - 330	Horizontal	22	2043.44	14313.90	14.3	Pass
T2	330 - 320	Horizontal	83	-1128.15	9791.06	11.5	Pass
T3	320 - 300	Horizontal	131	-567.09	9791.06	5.8	Pass
T4	300 - 280	Horizontal	180	1368.20	14313.90	9.6	Pass
T5	280 - 260	Horizontal	242	-558.35	9872.67	5.7	Pass
T6	260 - 240	Horizontal	304	-670.89	9872.67	6.8	Pass
T7	240 - 220	Horizontal	358	-775.32	9872.67	7.9	Pass
T8	220 - 200	Horizontal	421	-1039.27	9954.05	10.4	Pass
T9	200 - 180	Horizontal	489	-3218.63	9954.05	32.3	Pass
T10	180 - 160	Horizontal	551	-1732.03	9954.05	17.4	Pass
T11	160 - 140	Horizontal	607	-1771.24	9954.05	17.8	Pass
T12	140 - 120	Horizontal	669	-1719.98	9954.05	17.3	Pass
T13	120 - 100	Horizontal	731	-1295.36	9954.05	13.0	Pass

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Section No.	Elevation ft	Component Type	Critical Element	P lb	ϕP_{allow} lb	% Capacity	Pass Fail
T14	100 - 80	Horizontal	799	-1724.97	9954.05	17.3	Pass
T15	80 - 60	Horizontal	862	-1996.88	9954.05	20.1	Pass
T16	60 - 40	Horizontal	918	-2381.10	9954.05	23.9	Pass
T17	40 - 20	Horizontal	985	-2376.21	9954.05	23.9	Pass
T18	20 - 10	Horizontal	1048	-1980.10	9954.05	19.9	Pass
T19	10 - 5	Horizontal	1075	-1560.06	9954.05	15.7	Pass
T20	5 - 0	Horizontal	1087	2047.60	25446.90	8.0	Pass
T1	350 - 330	Secondary Horizontal	34	0.04	14313.90	0.1	Pass
T2	330 - 320	Secondary Horizontal	75	0.04	14313.90	0.1	Pass
T3	320 - 300	Secondary Horizontal	123	0.05	14313.90	0.1	Pass
T4	300 - 280	Secondary Horizontal	213	0.05	14313.90	0.1	Pass
T5	280 - 260	Secondary Horizontal	233	0.06	14313.90	0.1	Pass
T6	260 - 240	Secondary Horizontal	323	0.06	14313.90	0.1	Pass
T7	240 - 220	Secondary Horizontal	399	0.06	14313.90	0.1	Pass
T8	220 - 200	Secondary Horizontal	419	0.03	14313.90	0.1	Pass
T9	200 - 180	Secondary Horizontal	481	0.02	14313.90	0.1	Pass
T10	180 - 160	Secondary Horizontal	571	-0.04	11890.90	0.1	Pass
T11	160 - 140	Secondary Horizontal	647	-0.08	11890.90	0.1	Pass
T12	140 - 120	Secondary Horizontal	667	-0.16	11890.90	0.1	Pass
T13	120 - 100	Secondary Horizontal	771	-0.17	11890.90	0.1	Pass
T14	100 - 80	Secondary Horizontal	791	-0.08	11890.90	0.0	Pass
T15	80 - 60	Secondary Horizontal	853	0.01	14313.90	0.0	Pass
T16	60 - 40	Secondary Horizontal	915	0.12	14313.90	0.1	Pass
T17	40 - 20	Secondary Horizontal	977	0.23	14313.90	0.1	Pass
T18	20 - 10	Secondary Horizontal	1039	0.25	14313.90	0.1	Pass
T19	10 - 5	Secondary Horizontal	1073	0.24	14313.90	0.1	Pass
T1	350 - 330	Top Girt	4	-118.20	9791.06	1.2	Pass
T2	330 - 320	Top Girt	68	-652.98	9791.06	6.7	Pass
T3	320 - 300	Top Girt	102	-1210.85	9791.06	12.4	Pass
T4	300 - 280	Top Girt	162	-1817.13	9791.06	18.6	Pass
T5	280 - 260	Top Girt	226	-1169.80	9872.67	11.8	Pass
T6	260 - 240	Top Girt	286	-849.31	9872.67	8.6	Pass
T7	240 - 220	Top Girt	348	-1124.91	9872.67	11.4	Pass
T8	220 - 200	Top Girt	410	-623.34	9954.05	6.3	Pass
T9	200 - 180	Top Girt	472	-749.50	9954.05	7.5	Pass
T10	180 - 160	Top Girt	536	754.26	14313.90	5.3	Pass
T11	160 - 140	Top Girt	598	636.09	14313.90	4.4	Pass
T12	140 - 120	Top Girt	659	626.33	14313.90	4.4	Pass
T13	120 - 100	Top Girt	721	1202.01	14313.90	8.4	Pass
T14	100 - 80	Top Girt	783	773.28	14313.90	5.4	Pass
T15	80 - 60	Top Girt	846	593.08	14313.90	4.1	Pass
T16	60 - 40	Top Girt	907	644.21	14313.90	4.5	Pass
T17	40 - 20	Top Girt	969	-379.90	9954.05	3.8	Pass
T18	20 - 10	Top Girt	1031	-1020.65	9954.05	10.3	Pass
T19	10 - 5	Top Girt	1065	-1293.38	9954.05	13.0	Pass
T20	5 - 0	Top Girt	1086	5898.53	14313.90	41.2	Pass
T1	350 - 330	Bottom Girt	7	-674.55	9791.06	6.9	Pass
T2	330 - 320	Bottom Girt	70	-1090.07	9791.06	11.1	Pass
T3	320 - 300	Bottom Girt	103	-1325.90	9791.06	13.5	Pass
T4	300 - 280	Bottom Girt	167	-994.11	9791.06	10.2	Pass
T5	280 - 260	Bottom Girt	228	-729.34	9872.67	7.4	Pass
T6	260 - 240	Bottom Girt	289	-944.29	9872.67	9.6	Pass
T7	240 - 220	Bottom Girt	351	698.93	14313.90	4.9	Pass
T8	220 - 200	Bottom Girt	413	736.78	14313.90	5.1	Pass
T9	200 - 180	Bottom Girt	477	-573.80	9954.05	5.8	Pass
T10	180 - 160	Bottom Girt	539	-476.67	9954.05	4.8	Pass
T11	160 - 140	Bottom Girt	599	560.54	14313.90	3.9	Pass
T12	140 - 120	Bottom Girt	663	-831.43	9954.05	8.4	Pass
T13	120 - 100	Bottom Girt	725	-871.77	9954.05	8.8	Pass
T14	100 - 80	Bottom Girt	785	474.49	14313.90	3.3	Pass
T15	80 - 60	Bottom Girt	848	-1029.17	9954.05	10.3	Pass

ARMOR TOWER ENGINEERING

Armor Tower, Inc.
9 N Main St
Cortland, NY 13045
Phone: (607) 591-5381
FAX: (866) 870-0840

Job	Page
350' GUYED TOWER ANALYSIS	18 of 18
Project	**Date**
ISICS - 94-Woodbury	08:30:05 05/12/16
Client	**Designed by**
Pyramid Network Services	PEP

Section No.	Elevation ft	Component Type	Critical Element	P lb	ϕP_{allow} lb	% Capacity	Pass Fail
T16	60 - 40	Bottom Girt	910	-357.04	9954.05	3.6	Pass
T17	40 - 20	Bottom Girt	972	712.16	14313.90	5.0	Pass
T18	20 - 10	Bottom Girt	1034	1305.51	14313.90	9.1	Pass
T19	10 - 5	Bottom Girt	1068	5834.85	14313.90	40.8	Pass
T1	350 - 330	Guy A@335.042	1110	16959.80	21000.00	80.8	Pass
T4	300 - 280	Guy A@285.042	1116	11993.20	16140.00	74.3	Pass
T7	240 - 220	Guy A@234.958	1122	9098.50	12480.00	72.9	Pass
T9	200 - 180	Guy A@185.042	1131	7827.47	12480.00	62.7	Pass
T12	140 - 120	Guy A@125.042	1140	8549.59	12480.00	68.5	Pass
T15	80 - 60	Guy A@65.0417	1146	11574.00	9240.00	125.3	Fail ✗
T1	350 - 330	Guy B@335.042	1109	17128.90	21000.00	81.6	Pass
T4	300 - 280	Guy B@285.042	1115	11733.60	16140.00	72.7	Pass
T7	240 - 220	Guy B@234.958	1121	8896.63	12480.00	71.3	Pass
T9	200 - 180	Guy B@185.042	1128	7561.36	12480.00	60.6	Pass
T12	140 - 120	Guy B@125.042	1139	7998.78	12480.00	64.1	Pass
T15	80 - 60	Guy B@65.0417	1145	9518.95	9240.00	103.0	Fail ✗
T1	350 - 330	Guy C@335.042	1105	17070.40	21000.00	81.3	Pass
T4	300 - 280	Guy C@285.042	1111	12079.50	16140.00	74.8	Pass
T7	240 - 220	Guy C@234.958	1117	9188.38	12480.00	73.6	Pass
T9	200 - 180	Guy C@185.042	1124	7850.15	12480.00	62.9	Pass
T12	140 - 120	Guy C@125.042	1135	8752.04	12480.00	70.1	Pass
T15	80 - 60	Guy C@65.0417	1141	11885.40	9240.00	128.6	Fail ✗
T1	350 - 330	Top Guy Pull-Off@335.042	1107	5203.57	36450.00	14.3	Pass
T4	300 - 280	Top Guy Pull-Off@285.042	1113	3484.09	36450.00	9.6	Pass
T7	240 - 220	Top Guy Pull-Off@234.958	1119	2592.97	36450.00	7.1	Pass
T12	140 - 120	Top Guy Pull-Off@125.042	1137	3287.46	36450.00	9.0	Pass
T15	80 - 60	Top Guy Pull-Off@65.0417	1144	4970.81	36450.00	13.6	Pass
T9	200 - 180	Torque Arm Top@185.042	1129	1752.37	190636.00	19.8	Pass
						Summary	
					Leg (T16)	178.1	Fail ✗
					Diagonal (T19)	173.0	Fail ✗
					Horizontal (T9)	32.3	Pass
					Secondary Horizontal (T18)	0.1	Pass
					Top Girt (T20)	41.2	Pass
					Bottom Girt (T19)	40.8	Pass
					Guy A (T15)	125.3	Fail ✗
					Guy B (T15)	103.0	Fail ✗
					Guy C (T15)	128.6	Fail ✗
					Top Guy Pull-Off (T1)	14.3	Pass
					Torque Arm Top (T9)	19.8	Pass
					Bolt Checks	108.0	Fail ✗
					RATING =	**178.1**	**Fail ✗**

Existing GUY ANCHOR ANALYSIS

Customer: Pyramid Network Services
Project: ISICS-94 Woodbury
5/11/2016 1:34 PM

FACTORED REACTIONS:

Vertical:	36.2	kips
Horizontal:	48.1	kips
Resultant:	60.2	kips
Hor. Angle:	37.0	°
Submerged?	No	
Depth to Water:	3	ft

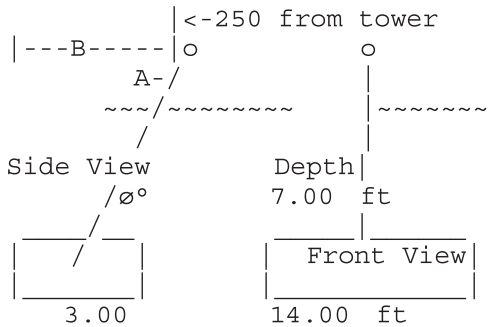
Soil Unit Wt	110	lb/ft^3
Soil Gs:	2.65	
Sub.Soil Wt:	68.5	lb/ft^3
Conc. Wt:	150	lb/ft^3
Rebar Fy:	60000	psi
Conc f`c:	3000	psi

CONCRETE WEIGHT:

Block Volume	4.7	cu yds
Block Wt	18.9	kips
3-block Volume:	14.0	cu yds

SOIL FRUSTUM WEIGHT:

Frustum:	30	°
Block:	32.3	kips
Edges:	52.9	kips
Corners:	16.8	kips
Total Wt:	102.0	kips
Excavatn:	420	cuft



HORIZONTAL CAPACITY: Check anchor shaft embedment? OK

Based on Normal Soils

				Uplift	Horizontal	
Load @	8.5 ft					
Stress:	6800 psf	Design Loads:		36.2	48.1	kips
Load:	285.6 kip	TIA 9.4.1 - ϕRn:		90.7	214.2	kips
		% Loaded:		40%	22%	OK

GUY ANCHOR SHAFT:

Hole QTY	9	holes	
Bar Qty:	(1)	2-1/4" Rod	
Fy/Fu:	50/65	ksi	
Shaft Ag:	3.98	in²	
Capacity	159.0	kips	TIA 4.6.3
% Loaded	37.9%	OK	

ANCHOR ROD LENGTH:

Minimum:	16.1	ft
Maximum:	20.0	ft
Recommend:	18.0	ft
Actual:	16.6	ft

BLOCK REINFORCEMENT:

ACI 9.3.2.1 ϕ: 0.9 Cage Bar: #7 Cover: 3 in

	Top Face	Front Face		
Factored Loads:	36.2	48.1	kips	
Factored Moment:	760.2	1010.1	kip-inch	
ACI 10.5.3 As:	0.571	0.760	in²	OK
ACI 10.5.4 As:	2.138	2.138	in²	OK
Bar Qty:	(4)	(3)		
Actual As:	2.405	1.804	in²	

ANCHOR DIMENSIONS:

Length	14'- 0"
Width	3'- 0"
Height	3'- 0"
Depth	7'- 0"
OADepth	10'- 0"
Dim. A:	12'- 1"
Dim. B:	15'- 1"
ø:	36°

REBAR DIMENSIONS:

RBL:	168"	
RBH:	30"	
RBW:	30"	
Bent OAL:	60"	
QTY Long:	8	Bars ea
QTY Bent:	17	Bars ea
Rebar Wt.	442	lb ea

MASTER CHECK: OK

Codes: ACI 318, TIA 222-G

SQUARE FOOTING AND PIER ANALYSIS

Customer: Pyramid Network Services
Project: ISICS-94 Woodbury
5/11/2016 1:34 PM

Factored Axial Load: 184.2 kips
Base Shear: 5.6 kips

DIMENSIONS:
Width 9.00 ft
Thickness 1.50 ft
Ht.above Grade: 6 inches

Round Pier OD 2.50 ft
Depth to Pad 2.00 ft
Bearing Depth: 3.50 ft
Pier Area: 707 inch²

SOIL PROPERTIES:
Dry Unit Wt: 100 pcf
Saturated Unit Wt: 120 pcf
Depth to GWT: 6 ft

CONCRETE PROPERTIES:
f'c: 3000 psi
Fy: 60000 psi

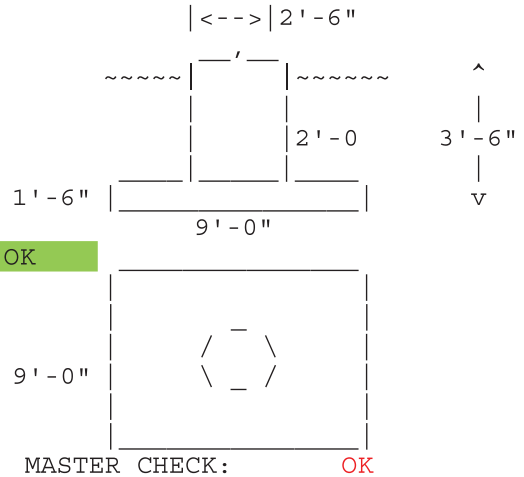
CALCULATIONS
EIA-F Normal soil: TIA 15.5.1
Qu: 1.80 ksf
Qnet: 1.56 ksf
TIA 9.4.1 $\phi_s R_s$: 145.80 kip phi=1.0
Ultimate Stress: 2355 psf Bearing: 126.3% No Good

CHECK PAD SHEAR ACI 9.3.2.3 ϕ: 0.75
Two Way Action: ßc=1 (L=W) Beam Action Load Area: 18.656 ft²
Vu: 173121 lbs Vu: 43938 lbs
ϕVc: 364639 lbs ϕVc: 142044 lbs
47.48% <= OK => 30.93%

MINIMUM PIER REINFORCING
ACI 15.8.2.1 0.005Ag: 3.534 inch² Steel Area:
(6) Bars of #7 3.608 inch² 98.0% OK
Bar Lngth: 37.5 inch
Pier Tie bar: #3 14 " tie bar spacing ACI 7.10.5

PAD BENDING MOMENT REINFORCEMENT
ACI 9.3.2.1 ϕ: 0.9
Mu: 111942 ft-lbs
As(Strength): 1.786 inch²
As(minimum): 2.746 inch²
Cover: 3 inches
(10) Bars of #7 Each Way
Actual As: 6.013 inch² 45.7% OK

Effective d 14.125 inches



Mat Bars: Concrete:
20 @ 11.33" spacing 4.9 cuyd
365 lb 19697.6 lb MASTER CHECK: OK

Codes: ACI 318, TIA 222-G

WOODBURY COUNTY BOARD OF SUPERVISORS AGENDA ITEM(S) REQUEST FORM #12d

Date: 02-22-17 Weekly Agenda Date: 03-07-17

ELECTED OFFICIAL / DEPARTMENT HEAD / CITIZEN: Glenn Sedivy, Communications Director

WORDING FOR AGENDA ITEM:

Approval of Resolution fixing date of March 14th, 2017 for a Public hearing at 4:40 pm for an Agreement for Motorola Solutions Inc. to lease Tower Space from Starcomm on the West Tower for their operations.

ACTION REQUIRED:

Approve Ordinance ☐ Approve Resolution ☑ Approve Motion ☐

Public Hearing ☐ Other: Informational ☐ Attachments ☐

EXECUTIVE SUMMARY:

The Starcomm Executive Board recommends to the County Supervisors to set a Public hearing in reference to a tower lease with Motorola for an initial term of 13 years to use a Starcomm radio tower.

BACKGROUND:

This is a partnership lease agreement with Motorola Solutions Inc. and Starcomm to operate on the State of Iowa's new Statewide radio system

FINANCIAL IMPACT:

None

IF THERE IS A CONTRACT INVOLVED IN THE AGENDA ITEM, HAS THE CONTRACT BEEN SUBMITTED AT LEAST ONE WEEK PRIOR AND ANSWERED WITH A REVIEW BY THE COUNTY ATTORNEY'S OFFICE?

Yes ☐ **No** ☐

RECOMMENDATION:

Place this item on the March 14th, 2017 agenda as a Public Hearing

ACTION REQUIRED / PROPOSED MOTION:

Place this item on the March 14th, 2017 agenda as a Public Hearing

Approved by Board of Supervisors April 5, 2016.

RESOLUTION

NOTICE OF PROPERTY LEASE

WHEREAS Woodbury County, Iowa is the deed holder to certain radio communications tower sites on the Siouxland Tri-State Radio Communications System (hereinafter referred to as "STARCOMM"); and

WHEREAS Motorola Solutions Inc. (hereinafter referred to as "Motorola") desires to enter a lease with Woodbury County, Iowa, City of Sioux City and Starcomm to use the Starcomm West Tower Site located at 3430 West 23rd St. for the purposes of a public safety radio communications system:

NOW THEREFORE,

BE IT RESOLVED by the Board of Supervisors of Woodbury County, Iowa as follows:

1. That a public hearing on the aforesaid proposal shall be held on the **March 14th, 2017 at 4:40 pm** in the basement of the Woodbury County Courthouse.

2. That said Board proposes to lease space on the Starcomm system to Motorola for an initial term of thirteen (13) years with the possibility of four (4) additional five (5) year renewal terms.

3. That said Board proposes to lease the real estate as a partnership with Motorola to connect the Starcomm radio system to the State of Iowa's Statewide Radio system with equipment installed in the Starcomm West Tower site located at 3430 West 23rd St, Sioux City, Iowa.

4. That this resolution, preceded by the caption "Notice of Property Lease" and except for this subparagraph 4 be published as notice of the aforesaid proposal, hearing and sale.

Dated this <date approved>.

ATTEST: WOODBURY COUNTY BOARD OF SUPERVISORS

_____ _____

Patrick F. Gill
Woodbury County Auditor
and Recorder

Matthew Ung, Chairman

THIS LEASE IS THE PROPERTY OF:
Woodbury County, Iowa
620 Douglas Street, Suite 104
Sioux City, Iowa 51101

AND THE PROPERTY OF:
Customer Support Manager, State of Iowa,
Motorola Solutions
1303 E. Algonquin Road
Schaumburg, IL 60196
ATTN: Dave Gordon
Phone: 319-377-6686

and

Law Department
Motorola Solutions, Inc.
500 W, Monroe St. 43rd Floor
Chicago, IL 60661
ATTN: Rich Heller
Phone: (847) 576-1817
Fax: (312) 559-5694

C/O Starcomm Public Safety Board
P.O. Box 447
Sioux City, Iowa 51102
ATTN: Glenn Sedivy
Phone: (712) 279-6959
Fax: (712) 279-6157

And

The City of Sioux City, Iowa
405 6th Street, P.O. Box 447
Sioux City, Iowa 51102

SITE LEASE AGREEMENT

THIS SITE LEASE AGREEMENT (hereinafter called "Lease"), is made and entered into as of this _____day of _____, 2017, by and between Woodbury County, Iowa, whose address is 620 Douglas Street, Suite 104, Sioux City, Iowa 51101 under the direction of the Starcomm Public Safety Board, whose address is P.O. Box 447 Sioux City, Iowa 51102 and the City of Sioux City, Iowa whose address is 405 6th Street, P.O. Box 447, Sioux City, IA 51102, hereinafter called "Lessors", and Motorola Solutions, Inc. having an address of 500 W. Monroe St., Chicago, IL 60661, hereinafter called "Lessee".

In consideration of the covenants and agreements hereinafter set forth, the parties hereto agree as follows:

1. Leased Premises. Lessor is the owner of that certain real property described below (the "Property"). Lessors hereby Lease to the Lessee, for the period, at the rental, and upon the terms and conditions hereinafter set forth, certain portions of the Property, tower, and a portion of the interior space on the ground (the "Premises") located on the Property within the city limits of Sioux City, Iowa.

2. Communications Equipment Upgrade and Installation. A detailed list of Communications Equipment to be installed and upgraded by the Lessee at the Property and a detailed Site Plan is hereby attached as **Exhibit A** and incorporated herein as if fully set forth in this Agreement.

"Communications Equipment" shall be defined as: a communications facility including (without limitation); equipment cabinets; backup power sources (including batteries, generators and fuel storage tanks); and other associated equipment, fixtures, wiring, and cabling.

Lessee shall cause the Communications Equipment to be fully installed and upgraded on the Property by June 16, 2017. All costs associated with the installation of Communications Equipment and upgrading of the existing system shall be borne by the Lessee. The Communications Equipment shall service the Public Safety communication needs of the area.

The legal description for the location of the above tower and equipment is:

> A lease of land being part of Blocks 7, 8 and 9 and the vacated alleys thereof and part of vacated Amanda Avenue, vacated W. 23rd Street and vacated W 22nd Street, all in Highland Park Fourth Filing to Sioux City, Woodbury County, Iowa, more particularly described as follows:
>
> Commencing at the southeast corner of said Highland Park Fourth Filing; thence N 89°57'11"W along the south line of said Highland Park Fourth Filing for 591.18 feet; thence N 00°02'49"E for 36.91 feet to the point of beginning of said lease description; thence N 22°36'05"W for 519.62 feet; thence S 82°36'05"E for 519.62 feet; thence S 37°23'55"W for 519.62 feet to the point of beginning. Said lease containing an area of 116,913.43 square feet or 2.68 acres.
>
> Also an ingress/egress easement over and across Block 6, Block 7 and vacated W. 23rd Street in said Highland Park Fourth Filing to Sioux City, Woodbury County, Iowa. Also a utility easement over and across Lots 1, 2 and 3 in said Block 9 and that part of vacated W. 22nd Street adjacent thereto, and part of vacated Berry Street adjacent to said Lot 1, Block 9 and across Lots 18 through 30 inclusive in said Block 8 and that part of the vacated alley adjacent thereto, all in said Highland Park Fourth Filing to Sioux City, Woodbury County, Iowa
>
> (3430 W. 23rd Street)

3. <u>Access</u>. Lessors also grant to Lessee, the State of Iowa, and their respective employees, contractors, agents, representatives, and assigns, access to the Property and Premises described in paragraph one (1) above, seven days a week, 24 hours a day, throughout the term of this Lease, provided that, prior to Lessee or Lessee's contractors climbing the tower for antenna access, Lessee will give Lessors no less than 12 hours prior notice. To allow this access to climb the tower or Fenced Compound, Lessors will give Lessee a key to the lock on the Compound. Each time the Lessee's employee(s) access the location all the Lessee's employees will notify the Facility Manager, in writing, in person or if necessary over the phone by calling (712) 279-6960. These employees will be subject to criminal background checks, except in emergency situations and when otherwise agreed upon by Lessor in writing. Security access to the sites compound will be provided by the Starcomm Director or Facility Manager. Each employee of Lessee who climbs the tower will have in their possession a card showing that they have completed the Qualified Climber/Rescue course offered through Comtrain or similar program approved by Lessors. Each employee of Lessee will follow all OSHA regulations while climbing any portion of the tower including wearing all required safety harnesses and will use the safety climbing cable while on the tower. There will never be fewer than 2 certified climbers on the site during any type of climbing on the tower.

4. Initial Term and Commencement Date of Lease . The "Initial Term" of this Lease shall be for a period of Thirteen (13) years. The "Commencement Date" for the Initial Term of this Lease begins upon the start of installation of the Communications Equipment as described in Paragraph 1, in and about the Premises and expiring on the date which is thirteen (13) years thereafter. Lessee shall provide written notification to the Parties of the date when installation shall commence. In any event the commencement date shall be no later than April 1, 2017.

5. Renewal Terms. Lessors hereby grant to Lessee the right, privilege and option to extend this Lease for four (4) additional "Renewal Terms" of Five (5) years; provided that the total length of all terms does not extend beyond the term of the Lease Agreement between Lessors and Sioux City Community School District in the Counties of Woodbury and Plymouth, State of Iowa; each with the consent and written approval from Lessors, from the end of the Initial Term, under the same terms, covenants and conditions as herein contained, provided that Lessee is not in default of any of the terms, covenants or conditions of this Lease at the conclusion of the Initial Term or any prior Renewal Term, respectively. This Lease shall automatically terminate unless Lessee gives written notice of the desire to extend or renew the Lease at least one hundred eighty (180) days prior to the end of the applicable term and obtains Lessors' consent to each requested extension.

6. Termination.

a. Both Lessors and Lessee shall have the right to terminate this Lease for cause, in the event the other party defaults on any material provision of this Lease**,** and in the event that such default is not cured within thirty (30) days after written notice thereof is provided to the other party. Said curative period shall be extended another thirty (30) days provided defaulting party has shown a good faith effort to cure default. Notwithstanding the foregoing, the curative period for any monetary default is thirty (30) days from receipt of written notice and the curative period for lapse in insurance coverage is ten (10) days from the receipt of written notice

b. The parties agree that in the event that federal or state law requires the installation of backup power sources or supplies that the terms of this Lease will require an amendment to be negotiated between the parties. No additional equipment shall be placed upon the Premises by Lessee without the written consent of Lessors. Notwithstanding the foregoing, Lessee may install upgraded Communications Equipment to replace existing Communications Equipment without the written consent of Lessor. However, a detailed list of replaced items must be promptly provided to the Lessor.

c. This Lease may be terminated without further liability as set forth below:

1) by either party in the event the other party defaults on any material provision of this Lease**,** and in the event that such default is not cured within thirty (30) days after written notice thereof is provided to the other party. Said curative period shall be extended another thirty (30) days provided defaulting party has shown a good faith effort to cure default. Notwithstanding the foregoing, the curative period for any monetary default is thirty (30) days from receipt of written notice and the curative period for lapse in insurance coverage is ten (10) days from the receipt of written notice; or

2) by Lessee if it does not obtain or maintain any license, permit or other approval necessary for the construction and operation of Lessee's facilities; or

3) by Lessee if Lessee is unable to occupy and utilize the tower site due to an action of the FCC, including without limitation, a take-back of channels, a change in frequencies, or a change in licensed coverage area; or

4) by Lessee if Lessee determines that the tower site is not appropriate for its operations for economic or technological reasons, including, without limitation, signal interference; or

5) by Lessors if the Lessors determine the tower site is no longer suitable to be used by Lessors for their operation and the Lessors choose to remove the building; or

6) by Lessors after the expiration of the initial term of this Lease upon providing Lessee with written notice. Such notice, if given by Lessors, must be given not less than three hundred sixty-five (365) days prior to the date therein specified (this time is given for Lessee to find a new site, get zoning approval, construct a new site and move Lessee's shelter and antennas); or

7.) by Lessors at any time upon occurrence of a Separation Event, as that term is defined in 14(f), by giving at least thirty (30) days' notice in writing to the Lessee.

8) by the parties mutual agreement.

d. In the event of termination or expiration of this Lease, Lessee shall have a reasonable period of time (not exceeding ninety (90) days from the effective date of termination unless a longer time is allowed elsewhere in this Lease) to remove all Communications Equipment from the Premises, however all improvements to the tower and/or ancillary structures shall be left in place and in good repair by the Lessee. Upon expiration of this Lease, Lessee shall restore the Premises to reasonably good condition and repair, subject to ordinary wear and tear on the Premises, which is specifically excepted. Failure of Lessee to remove its Communications Equipment at the expiration or termination of this Lease may result in Lessors removing the equipment and payment of all charges occasioned by such removal will be the responsibility of the Lessee.

7. Initial Term Rent .

a. Lessee shall pay Woodbury County, Iowa, administrator of funds of Starcomm Public Safety Board Ten Dollars ($10) and other good and valuable consideration as full consideration for the initial Term and all Renewal Terms of this Lease. Unless otherwise specified in this Lease, each party shall bear its own costs.

8. Use and Non-Interference of Premises. Lessee shall have the right to use the Property and Premises for the purpose of installing, removing, replacing, modifying, repairing, maintaining, and operating a communications facility including (without limitation) antennae and radios (including microwave antennae and radios); equipment cabinets; backup power sources (including batteries, generators and fuel storage tanks); and other associated equipment, fixtures, wiring, and cabling (collectively the "Communications Equipment"). The parties acknowledge that (a) the Communications Equipment will be owned by Lessee, the State of Iowa, or their respective assignee and (b) the Communications Equipment will be used for emergency services, public safety and other governmental purposes, including the Iowa State Patrol and other Iowa state agencies, and any federal, state, county, municipality or other governmental body, including any department or agency thereof. Lessee shall not do or permit any activities upon the Premises, which would cause interference to Lessor or with Lessor's principle use of the Premises as a Lattice Tower in the City of Sioux City, Iowa 3420 W. 23rd Street. The Lessee will be allowed to install its Communications Equipment inside and outside the communications tower house. This is not an exclusive lease of the premises. Lessors retains the right to lease additional space to other Tenants provided that the additional Tenants' equipment does not interfere with the activities and transmission signals of the Lessee. Additionally, Lessor will continue to use the premises for their own business or public safety purposes. Lessor affirmatively covenants that except for acts of God, neither Lessor nor its employees, agents, representatives, invitees, other tenants or licensees shall cause or allow

others to cause interruption of electrical power or interruption of telephone service to the Communication Equipment.

9. Insurance and Indemnification.

Unless self-insured, at all times during the term of this Lease, Lessee shall at its expense carry and maintain for the mutual benefit of the Lessors:

a. Commercial General liability insurance against the claims for personal injury, death or property damage occurring in or about the Leased Premises or resulting from the installation, operation or maintenance of the Lessee's Communications Equipment on the Leased Premises, such insurance to be in the amount of $1,000,000.00 for personal injuries and deaths resulting from any one accident and for property damage in any one accident, and an aggregate coverage in the amount of $3,000,000.00 with Lessors included as additional insureds.

b. A Standard Workmen's Compensation and Employer's Liability Insurance Policy in the amount equal to the limit of liability and in a form prescribed by the laws of the state in which the Leased Premises is located.

c. Any contract workers contracted by Lessee shall also carry similar insurance as set forth in a. and b. above.

10. Damage or Destruction. If the Premises are damaged, destroyed by fire, winds, flood, or other natural or manmade cause, Lessors shall have the option to repair or replace the Premises at their sole expense, or to terminate this Lease effective on the date of such damage or destruction. Notwithstanding the foregoing, for purposes of implementing the ninety (90) day period specified in 6(d), the ninety (90) day period shall commence upon the later of (i) the Lessors having notified the Lessee of a decision not to repair or replace the Premises or (ii) sixty (60) days having passed without Lessors having notified Lessee of a decision to repair or replace the Premises (unless the Lessors have begun repair or replacement activities). In the event Lessors elect to terminate this Lease, Lessee shall have no further obligations hereunder. Lessors shall have up to sixty (60) days to decide on whether to repair or replace the Premises. Failure by Lessors to notify Lessee within sixty (60) days of Lessors' decision to repair or replace the Premises shall be deemed an election by Lessors to terminate this Lease, unless the Lessors have begun repair or replacement activities. If Lessors elect to repair or replace the Premises, Lessee shall have the option of either abating the rent due until such repair or replacement is completed and the Premises are restored to a condition that the Lessee can resume full operations at the Premises; or until Lessee begins operating a mobile telecommunication base station on the Premises. Lessee may immediately erect on an unused portion of the Property a temporary communications facility. In the event such repairs or restoration are not commenced within thirty (30) days or completed within ninety (90) days, Lessee may elect to terminate this Lease by so notifying Lessor in writing, The option to operate a mobile telecommunications base station on the Premises is subject to the Lessee obtaining all required State and local permits and obtaining verbal consent of the Starcomm Public Safety Board, said consent shall not be unreasonably withheld. Said verbal consent will be confirmed electronically or in writing by the Starcomm Public Safety Board within twenty-four (24) hours. If there is a condemnation of the Premises, then this Lease will terminate upon transfer of title to the condemning authority, without further liability to either party except for Lessor's obligation to reimburse Lessee for any prepaid fees. Lessee is entitled to pursue a separate condemnation award from the condemning authority. Lessor shall notify Lessee in writing within ten (10) days after it receives notice of any actual or contemplated condemnation proceedings.

11. Taxes. Lessors shall pay and be responsible for all taxes on the Premises, and Lessee shall pay and be responsible for all taxes due on Lessee's equipment and fixtures installed on the Premises.

12. Notices. Any notices required or permitted to be given hereunder shall be given in writing, and shall be deemed to have been given only upon receipt after mailing by certified or registered first class mail, postage prepaid, return receipt requested, or sending by reliable overnight courier and addressed to the parties as follows:

Lessors: Woodbury County, Iowa
Board of Supervisors
620 Douglas Street, Suite 104
Sioux City, Iowa 51101
Phone: 712-279-6525

Starcomm Public Safety Board
P.O. Box 447
Sioux City, Iowa 51102
ATTN: Glenn Sedivy
Phone: (712) 279-6959
Fax: (712 279-6157

City Clerk
City of Sioux City, Iowa
405 6th Street, P.O. Box 447
Sioux City, Iowa 51102

Lessee: Customer Support Manager, State of Iowa,
Motorola Solutions
1303 E. Algonquin Road
Schaumburg, IL 60196
ATTN: Dave Gordon
Phone: 319-377-6686

Law Department
Motorola Solutions, Inc.
500 W. Monroe St., 43rd Floor
Chicago, IL 60661
ATTN: Rich Heller
Phone: (847) 576-1817

13. Hazardous Materials. At no time during the term hereof shall the Lessee store, place, leave or deposit at the Tower or the Premises any substance or material which, if known to be present on or at such property, would require cleanup, removal or some other remedial action under any federal, state or local law, including statutes, regulations, ordinances, codes, rules and other governmental restrictions and requirements relating to the discharge of air pollutants, water pollutants, processed waste water, solid wastes, or otherwise relating to environmental hazardous substances, including but not limited to the Federal Solid Waste Disposal Act, the Federal Clean Air Act, the Federal Clean Water Act, the Federal Resource Conservation and Recovery Act of 1976, the Federal Comprehensive Environmental Response,

Compensation, and Liability Act of 1980, and all acts amendatory thereto, regulations of the Environmental Protection Agency, regulations of the Nuclear Regulatory Agency, and regulation of any State Department of Natural Resources or State Environmental Protection Agency now or at any time hereinafter in effect. The Lessee agrees to and does hereby indemnify and save the Lessors and owners harmless from any and all claims, demands, suits, actions, recoveries, judgments, costs and expenses relating in any way to Lessee's violation of this Section, and this indemnification obligation shall survive the expiration or termination of this Lease. Lessors acknowledge and agree that Lessee shall have no liability or responsibility whatsoever for any environmental violations or issues, at the tower or premises, existing prior to the date of Lessee's occupancy or otherwise not caused by Lessee. Lessor represents and warrants that it has no knowledge of any pre-existing environmental contamination on or about the Property or any substance, or chemical, or waste on the Property that is identified in any applicable state, federal, or local law or regulation as being hazardous, toxic, or dangerous. Lessor shall not introduce or allow any other tenant or licensee to introduce any such substance or chemical or waste onto, near or adjacent to the Property in violation of applicable law.

14. Miscellaneous Provisions.

a. Lessors warrant that (i) Lessors are the owners of the tower and owners and/or lessees of the tower site property; (ii) that Lessors have full right, power, and authority to execute this agreement and if necessary have obtained all necessary consents to sublease the Premises; (iii) that Lessor will not have unsupervised access to the Communication Equipment on the Premises; (iv) that the Property: (a) abuts a public right-of-way over which practical access is possible, or (b) is accessible over easements appurtenant to such site; and (v) that to the best of Lessor's knowledge making of this Lease and the performance thereof will not violate any zoning or other laws, ordinances, restrictive covenants or the provision of any mortgage, lease or other agreements under which Lessor is bound and which restricts itself in any way with respect to the use or disposition of the Property. Lessors covenant that Lessee, in paying Rent and performing the covenants by Lessee herein made, shall and may peacefully and quietly have, hold, and enjoy the Leased Premises.

b. Lessee may, at its expense, make such improvements to the Property and Premises as it deems necessary for the operation of the Communication Equipment with prior written approval of the Lessor. Lessee shall obtain all necessary governmental and regulatory approvals required for Lessee's occupation and use of the Premises, including but not limited to zoning changes, and shall be responsible for the cost of obtaining such approvals. Lessors shall cooperate with Lessee in obtaining such approvals.

c. The provisions of this Lease shall bind and inure to the benefit of the parties hereto and their heirs, legal representatives, successors and assigns. References to Lessee herein shall include Lessee's transferees, successors, and assigns. References to Lessor herein shall include Lessor's transferees, successors, and assigns.

d. This Lease and the attached exhibits contain the entire agreement of the parties with respect to its subject matter and supersede any prior oral or written agreements.

e. This Lease may be amended in writing only, signed by all the parties in interest at the time of such amendment.

f. Lessee may assign this Lease to the State of Iowa or any of its departments, agencies or designees, or to any of Lessee's affiliates without the prior consent of Lessor. In addition, in the event Lessee separates one or more of its businesses (each a "Separated Business"), whether by way of a sale, establishment of a joint venture, spin-off or otherwise (each a "Separation Event"), Lessee may, without the prior written consent of Lessor and at no additional cost to Lessee, assign this Lease such that it will continue to benefit

the Separated Business and its affiliates following the Separation Event. In the event of such a permitted transfer, Lessee shall provide written notice to Lessors of the Separation Event within thirty days of the completion of the Separation Event. This Lease shall continue as a direct lease between Lessor and any permitted transferee, and the original Lessee shall be released from any and all future liability hereunder. Lessee shall notify Lessors in writing of the name and address of any assignee. This Lease may be assigned by Lessors without the consent of Lessee provided that the assignee shall occupy and use the Premises subject to this Lease. Lessor shall notify Lessees in writing of the name and address of any assignee.

g. No waiver by either party of any provision herein shall be deemed a waiver of any other provision or of any prior or subsequent breach of any provision herein.

h. If any term or provision of this Lease is held to be invalid or unenforceable, such invalidity or unenforceability shall not be construed to affect any other provision of this Lease and the remaining provisions shall be enforceable in accordance with their terms.

i. This agreement shall be governed by and construed in accordance with the laws of the State of IOWA, without regard to its conflicts of law principles.

j. If Lessee does not vacate the Premises in accordance with the Lease terms upon valid termination of this Lease, such holding over shall be treated as creating a month to month tenancy. This holdover will not be approved for more than ninety (90) days. Rent during the holdover will be 150% of the current rent. Further, if Lessee does not vacate the Premises as required, Lessee's Communications Equipment may be removed by Lessors at Lessee's expense. Any bill for removal of Lessee's equipment by Lessors shall be paid in full within thirty (30) days of mailing.

k. Lessee may make, with prior approval from Lessors, reasonable alterations, additions, or improvements to the Premises necessary for its antennas, communication shelter, power cables and telephone cables, so long as the structural integrity of the Premises is not affected. Lessee will bear the total cost of such alterations, additions or improvements, including regular maintenance, and the cost of removal and returning the Premises to the condition it was at the time of entering into the Lease (subject to the terms of paragraph 6(d) of this Lease).

l. Lessee shall be solely responsible for maintenance of its Communications Equipment, and shall arrange for maintenance under separate contract for all such maintenance services. Lessee shall not expect or ask Lessors to do any special site maintenance for Lessee's antennas or shelter, unless Lessee enters into a separate maintenance contract with Lessors, which contract will be separate from the terms of this Lease (i.e.: in the event that some minor snow plowing is requested for Lessee's access to their shelter, Lessee will separately contract for that service under a separate document).

m. Lessee will bear any and all costs associated with temporary relocation of Lessee's equipment, if required, during repairs or painting of Lessors' building. Lessors will give Lessee at least thirty (30) days advance notice of scheduled repairs or painting of Lessors' building or tower which may affect Lessee's operation, so that Lessee can pre-plan for providing high-quality communications to Lessee's customers during any temporary relocation required by Lessors' repair or painting activities. Lessors are not required to provide notice of routine repairs, such as replacement of tower lights, which do not affect Lessee's operation. Lessors will provide Lessee notice of emergency repairs with at least twelve (12) hours prior notice unless it is impossible or impractical to do so and then the Lessee shall be provided with as much prior notice as possible under the emergency circumstances.

n. To the extent permitted by law, Lessee shall indemnify and hold Lessors harmless against all expenses, liabilities and claims of every kind, including reasonable attorney fees, to the extent arising from the negligent or wrongful acts or omissions of Lessee or anyone for whose acts Lessee may be liable and made necessary by or on behalf of any person or entity arising out of:

1) A failure by Lessee to perform any of the terms and conditions of this Lease; or

2) Any injury or damage happening on or about the Leased Premises which is caused in whole or in part by Lessee's use of the Premises, any act or omission of Lessee or anyone for whose acts Lessee may be liable; or

3) Any injury or damage to any employee, agent, or customer of Lessee or Lessors on or about the Leased Premises which is caused in whole or in part by Lessee's use of the Premises, any act or omission of Lessee or anyone for whose acts Lessee may be liable; or

4) Failure of Lessee to comply with any applicable laws or governmental authority; or

5) Any action brought by a third party for damages as a result of an injury caused by Lessee or action or inaction of the Lessee.

15. Approval. The parties agree that this Lease shall not be binding on either party unless and until it is fully executed by both parties. If this Lease is signed by only one party, it shall merely constitute an offer to lease. This Lease is subject to the consent to sublease by The Sioux City School District, and subject to approval by Starcomm's Executive Board, the Woodbury County Board of Supervisors and the City Council of the City of Sioux City.

16. Utilities. Lessee shall be entitled to install any utilities and services required for the Communication Equipment. Lessor shall provide Lessee with such reasonable assistance as is necessary to enable Lessee to arrange for such utilities and services, including signing any easement or other instrument reasonably required by the utility company. Lessor represents that utilities required for Lessee's use of the Premises are available, and Lessee shall not be required to pay any share of such utilities and services as are used for the Communication Equipment. All electricity and any other utility services used by Lessee to operate the Communications Equipment will be paid by Lessor.

17. Compliance with Laws. The Parties shall comply with all applicable local, state, and federal government laws, codes and regulations, including without limitation FAA, FCC, NEPA, occupational health and safety, environmental, and electromagnetic (EME) requirements, and applicable requirements of the Americans with Disabilities Act.

18. Short Form Lease. The parties will, at any time upon the request of either one, promptly execute duplicate originals of an instrument, in recordable form, which will constitute a short form of this Lease setting forth a description of the premises, the term of this Lease and any portions hereof, excepting the rent and cost provisions.

19. Contingency for Due Diligence. Lessee shall have until the Commencement Date to conduct a due diligence examination of all factors affecting the Property and to satisfy itself in its sole discretion that the Property is suitable for Lessee's intended use. Lessor shall furnish Lessee with the legal description, coordinates, address or location and real estate tax numbers, if available, for the Property as well as copies of any title policies or searches, surveys or site drawings (including those dealing with utility or access easements), any Prime Lease or Ground Lease, including all amendments, current users of the Property and all broadcast frequencies and any studies dealing with structural, RF, engineering or environmental,

NEPA or EME matters, as well as other documentation reasonably requested by Lessee. Lessor shall also allow Lessee's personnel or its contractors to visit and investigate the Property and perform structural, engineering and environmental evaluations and tests. Lessor shall use its best efforts to obtain from the holder of any mortgage or deed of trust ("Mortgagee") a non-disturbance agreement in a form provided by or otherwise acceptable to Lessee. In the event Lessee is not satisfied with the Property or Lessee does not receive non-disturbance agreements from all Mortgagees Lessee shall have the right to terminate this Lease by so notifying Lessor in writing on or before the Commencement Date, in which event all funds paid by Lessee shall be returned to Lessee.

23. Brokers. Lessor and Lessee each represents to the other that he, she, or it did not deal with any broker or other person who may be entitled to a commission as a result of the transaction contemplated by this Lease, and Lessor and Lessee hereby agree to indemnify and hold the other harmless from a breach of the foregoing representation.

24. Counterparts: Facsimile Signatures. This Lease may be executed in one or more counterparts, each of which shall be deemed an original and all of which together shall constitute one and the same instrument. In addition, a true and correct facsimile copy or computer image of this Agreement shall be treated as and shall have the same effect as an original signed copy of this document.

25. Waiver of Lessor's Lien Rights. Lessor agrees that it does not have any lien rights in Lessee's personal property or the Communications Equipment.

26. Mutual Waiver of Consequential Damages and Limitation of Liability. NOTWTHSTANDING ANYTHING TO THE CONTRARY IN THIS LEASE, ALTHOUGH THE PARTIES ACKNOWLEDGE THE POSSIBILITY OF SUCH LOSSES OR DAMAGES, EACH PARTY AGREES THAT THE OTHER PARTY WILL NOT BE LIABLE FOR ANY COMMERCIAL LOSS; INCONVENIENCE; LOSS OF USE, TIME, DATA, GOOD WILL, REVENUES, PROFITS OR SAVINGS; OR OTHER SPECIAL, INCIDENTAL, INDIRECT, OR CONSEQUENTIAL DAMAGES IN ANY WAY RELATED TO OR ARISING FROM THIS LEASE, AND EXCEPT FOR PERSONAL INJURY, DEATH, OR DAMAGE TO TANGIBLE PROPERTY, EACH PARTY'S TOTAL LIABILITY, WHETHER FOR BREACH OF CONTRACT, WARRANTY, NEGLIGENCE, STRICT LIABILITY IN TORT, INDEMNIFICATION, OR OTHERWISE, WILL BE LIMITED TO THE DIRECT DAMAGES RECOVERABLE UNDER LAW, BUT NOT TO EXCEED $3,000,000.00. This limitation of liability provision survives the expiration or termination of this Lease and applies to the fullest extent permitted by law, notwithstanding any contrary provision.

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IN WITNESS WHEREOF the parties have executed this Agreement as of the date first above written.

CITY OF SIOUX CITY, IOWA

By _____
Robert E. Scott
Mayor of Sioux City, Iowa

Certification of City Clerk:

I, Lisa L. McCardle, certify that I am the City Clerk of the City of Sioux City, Iowa, and that Mayor Robert E. Scott, who executed this Agreement for and on behalf of the City, was duly authorized and empowered to do so as of _____ _____, 2017.

_____
Lisa L. McCardle,
City Clerk of the City of Sioux City, Iowa

WOODBURY COUNTY, IOWA

By _____
Matthew Ung
Chairperson

Certification of County Auditor:

I, Patrick Gill, certify that I am the County Auditor of the Woodbury County, Iowa and that Matthew Ung, who executed this Agreement for and on behalf of the County, was duly authorized and empowered to do so as of _____ _____. 2017

_____
Patrick Gill
Woodbury County Auditor

STARCOMM, WOODBURY, IOWA

By _____
Douglas Young
Chairperson

Certification of Starcomm:

I, Carrie Anfinson-Haden, certify that I am the Administrative Secretary for Starcomm and that Chairperson Douglas Young, who executed this Lease for and on behalf of Starcomm, was duly authorized and empowered to do so as of _____, 2017.

_____
Carie Anfinson-Haden,
Administrative Secretary for Starcomm

MOTOROLA SOLUTIONS, INC.

By _____

STATE OF _____)
: ss
COUNTY OF _____)

On this _____ day of _____ , 20 _____ before me, the undersigned a Notary Public in and for said County and State, personally appeared

_____

to me known to be the identical person named in and who executed the foregoing instrument, and acknowledged that they executed the same as their voluntary act and deed.

(SEAL)

_____
NOTARY PUBLIC in and for said COUNTY and STATE

EXHIBIT A

DESCRIPTION OF PROPERTY AND EQUIPMENT TO BE INSTALLED

This exhibit provides the address, location, and general description of the property subject to the Lease.

Legal Description:

The site is known as “West High” consists of a guyed tower, communications shelter, and backup generator. No tower or site modifications are planned for this site. All new equipment is to be installed inside the equipment shelter.

Address or Location:

West High (Iowa)
3430 W. 23rd St
Sioux City, IA

Coordinates:

42-30-43.7N / 96-27-14.7W

Equipment to be installed inside the shelter:

- 3 Base Radios to existing Expansion Radio Rack
- Additional DC rectifiers to existing Eltek chassis to increase output capacity
- Additional battery strings to increase runtime

WOODBURY COUNTY BOARD OF SUPERVISORS AGENDA ITEM(S) REQUEST FORM #12e

Date: 02-22-17 Weekly Agenda Date: 03-07-17

ELECTED OFFICIAL / DEPARTMENT HEAD / CITIZEN: Glenn Sedivy, Communications Director

WORDING FOR AGENDA ITEM:

Approval of Resolution fixing date of March 14th, 2017 for a Public hearing at 4:45 pm for an Agreement for Motorola Solutions Inc. to lease Tower Space from Starcomm on the WIT Tower for their operations.

ACTION REQUIRED:

Approve Ordinance ☐ Approve Resolution ☑ Approve Motion ☐

Public Hearing ☐ Other: Informational ☐ Attachments ☐

EXECUTIVE SUMMARY:

The Starcomm Executive Board recommends to the County Supervisors to set a Public hearing in reference to a tower lease with Motorola for an initial term of 13 years to use a Starcomm radio tower.

BACKGROUND:

This is a partnership lease agreement with Motorola Solutions Inc. and Starcomm to operate on the State of Iowa's new Statewide radio system

FINANCIAL IMPACT:

None

IF THERE IS A CONTRACT INVOLVED IN THE AGENDA ITEM, HAS THE CONTRACT BEEN SUBMITTED AT LEAST ONE WEEK PRIOR AND ANSWERED WITH A REVIEW BY THE COUNTY ATTORNEY'S OFFICE?

Yes ☐ **No** ☐

RECOMMENDATION:

Place this item on the March 14th, 2017 agenda as a Public Hearing

ACTION REQUIRED / PROPOSED MOTION:

Place this item on the March 14th, 2017 agenda as a Public Hearing

Approved by Board of Supervisors April 5, 2016.

THIS LEASE IS THE PROPERTY OF:
Woodbury County, Iowa
620 Douglas Street, Suite 104
Sioux City, Iowa 51101

AND THE PROPERTY OF:
Customer Support Manager, State of Iowa,
Motorola Solutions
1303 E. Algonquin Road
Schaumburg, IL 60196
ATTN: Dave Gordon
Phone: 319-377-6686

and

Law Department
Motorola Solutions, Inc.
500 W, Monroe St. 43rd Floor
Chicago, IL 60661
ATTN: Rich Heller
Phone: (847) 576-1817
Fax: (312) 559-5694

C/O Starcomm Public Safety Board
P.O. Box 447
Sioux City, Iowa 51102
ATTN: Glenn Sedivy
Phone: (712) 279-6959
Fax: (712) 279-6157

And

The City of Sioux City, Iowa
405 6th Street, P.O. Box 447
Sioux City, Iowa 51102

SITE LEASE AGREEMENT

THIS SITE LEASE AGREEMENT (hereinafter called "Lease"), is made and entered into as of this _____day of _____, 2017, by and between Woodbury County, Iowa, whose address is 620 Douglas Street, Suite 104, Sioux City, Iowa 51101 under the direction of the Starcomm Public Safety Board, whose address is P.O. Box 447 Sioux City, Iowa 51102 and the City of Sioux City, Iowa whose address is 405 6th Street, P.O. Box 447, Sioux City, IA 51102, hereinafter called "Lessors", and Motorola Solutions, Inc. having an address of 500 W. Monroe St., Chicago, IL 60661, hereinafter called "Lessee".

In consideration of the covenants and agreements hereinafter set forth, the parties hereto agree as follows:

1. Leased Premises. Lessor is the owner of that certain real property described below (the "Property"). Lessors hereby Lease to the Lessee, for the period, at the rental, and upon the terms and conditions hereinafter set forth, certain portions of the Property, tower, and a portion of the interior space on the ground (the "Premises") located on the Property within the city limits of Sioux City, Iowa.

2. Communications Equipment Upgrade and Installation. A detailed list of Communications Equipment to be installed and upgraded by the Lessee at the Property and a detailed Site Plan is hereby attached as **Exhibit A** and incorporated herein as if fully set forth in this Agreement. A Structural

Analysis of the communications tower is hereby attached as **Exhibit B** and incorporated herein as if fully set forth in this Agreement.

"Communications Equipment" shall be defined as: a communications facility including (without limitation) antennae and radios (including microwave antennae and radios); equipment cabinets; backup power sources (including batteries, generators and fuel storage tanks); and other associated equipment, fixtures, wiring, and cabling.

Lessee shall cause the Communications Equipment to be fully installed and upgraded on the Property by June 16, 2017. All costs associated with the installation of Communications Equipment and upgrading of the existing system shall be borne by the Lessee. The Communications Equipment shall service the Public Safety communication needs of the area.

The legal description for the location of the above tower and equipment is:

> All that part of the South One-Half (S ½) of the Northwest Quarter (NW ¼) of Section 36, Township 89 North, Range 47 West of the 5th Principal Meridian, Sioux City, Woodbury County, Iowa, described as follows:
>
> Commencing at the Northeast corner of the SW ¼ of the NW ¼ of said Section 36; thence S 43°22'02"W for 60.00 feet to the point of beginning; thence S 46°37'58"E for 50.00 feet; thence S 43°22'02"W for 100.00 feet; thence N 46°37'58"W for 100.00 feet; thence N 43°22'02"E for 100.00 feet; thence S 46°37'58"E for 50.00 feet to the point of beginning. Said described lease contains 10,000.0 square feet.
>
> NOTE: Basis of bearings established by reference to Plat of Survey and legal description as recorded on Roll 598 – Images 635 through 639 in the Woodbury County Recorder's Office, Sioux City, Iowa
>
> (Property located in the vicinity of 4647 Stone Avenue)

3. Access. Lessors also grant to Lessee, the State of Iowa, and their respective employees, contractors, agents, representatives, and assigns, access to the Property and Premises described in paragraph one (1) above, seven days a week, 24 hours a day, throughout the term of this Lease, provided that, prior to Lessee or Lessee's contractors climbing the tower for antenna access, Lessee will give Lessors no less than 12 hours prior notice. To allow this access to climb the tower or Fenced Compound, Lessors will give Lessee a key to the lock on the Compound. Each time the Lessee's employee(s) access the location all the Lessee's employees will notify the Facility Manager, in writing, in person or if necessary over the phone by calling (712) 279-6960. These employees will be subject to criminal background checks, except in emergency situations and when otherwise agreed upon by Lessor in writing. Security access to the sites compound will be provided by the Starcomm Director or Facility Manager. Each employee of Lessee who climbs the tower will have in their possession a card showing that they have completed the Qualified Climber/Rescue course offered through Comtrain or similar program approved by Lessors. Each employee of Lessee will follow all OSHA regulations while climbing any portion of the tower including wearing all required safety harnesses and will use the safety climbing cable while on the tower. There will never be fewer than 2 certified climbers on the site during any type of climbing on the tower.

4. Initial Term and Commencement Date of Lease . The "Initial Term" of this Lease shall be for a period of Thirteen (13) years. The "Commencement Date" for the Initial Term of this Lease begins upon the start of installation of the Communications Equipment as described in Paragraph 1, in and about the Premises and expiring on the date which is thirteen (13) years thereafter. Lessee shall provide written

notification to the Parties of the date when installation shall commence. In any event the commencement date shall be no later than April 1, 2017.

5. Renewal Terms. Lessors hereby grant to Lessee the right, privilege and option to extend this Lease for four (4) additional "Renewal Terms" of Five (5) years; provided that the total length of all terms does not extend beyond the term of the Lease Agreement between Lessors and WIT; each with the consent and written approval from Lessors, from the end of the Initial Term, under the same terms, covenants and conditions as herein contained, provided that Lessee is not in default of any of the terms, covenants or conditions of this Lease at the conclusion of the Initial Term or any prior Renewal Term, respectively. This Lease shall automatically terminate unless Lessee gives written notice of the desire to extend or renew the Lease at least one hundred eighty (180) days prior to the end of the applicable term and obtains Lessors' consent to each requested extension.

6. Termination.

a. Both Lessors and Lessee shall have the right to terminate this Lease for cause, in the event the other party defaults on any material provision of this Lease**,** and in the event that such default is not cured within thirty (30) days after written notice thereof is provided to the other party. Said curative period shall be extended another thirty (30) days provided defaulting party has shown a good faith effort to cure default. Notwithstanding the foregoing, the curative period for any monetary default is thirty (30) days from receipt of written notice and the curative period for lapse in insurance coverage is ten (10) days from the receipt of written notice

b. The parties agree that in the event that federal or state law requires the installation of back up power sources or supplies that the terms of this Lease will require an amendment to be negotiated between the parties. No additional equipment shall be placed upon the Premises by Lessee without the written consent of Lessors. Notwithstanding the foregoing, Lessee may install upgraded Communications Equipment to replace existing Communications Equipment without the written consent of Lessor. However, a detailed list of replaced items must be promptly provided to the Lessor.

c. This Lease may be terminated without further liability as set forth below:

1) by either party in the event the other party defaults on any material provision of this Lease**,** and in the event that such default is not cured within thirty (30) days after written notice thereof is provided to the other party. Said curative period shall be extended another thirty (30) days provided defaulting party has shown a good faith effort to cure default. Notwithstanding the foregoing, the curative period for any monetary default is thirty (30) days from receipt of written notice and the curative period for lapse in insurance coverage is ten (10) days from the receipt of written notice; or

2) by Lessee if it does not obtain or maintain any license, permit or other approval necessary for the construction and operation of Lessee's facilities; or

3) by Lessee if Lessee is unable to occupy and utilize the tower site due to an action of the FCC, including without limitation, a take-back of channels, a change in frequencies, or a change in licensed coverage area; or

4) by Lessee if Lessee determines that the tower site is not appropriate for its operations for economic or technological reasons, including, without limitation, signal interference; or

5) by Lessors if the Lessors determine the tower site is no longer suitable to be used by Lessors for their operation and the Lessors choose to remove the building; or

6) by Lessors after the expiration of the initial term of this Lease upon providing Lessee with written notice. Such notice, if given by Lessors, must be given not less than three hundred sixty-five (365) days prior to the date therein specified (this time is given for Lessee to find a new site, get zoning approval, construct a new site and move Lessee's shelter and antennas); or

7.) by Lessors at any time upon occurrence of a Separation Event, as that term is defined in 14(f), by giving at least thirty (30) days' notice in writing to the Lessee.

8) by the parties mutual agreement.

d. In the event of termination or expiration of this Lease, Lessee shall have a reasonable period of time (not exceeding ninety (90) days from the effective date of termination unless a longer time is allowed elsewhere in this Lease) to remove all Communications Equipment from the Premises, however all improvements to the tower and/or ancillary structures shall be left in place and in good repair by the Lessee. Upon expiration of this Lease, Lessee shall restore the Premises to reasonably good condition and repair, subject to ordinary wear and tear on the Premises, which is specifically excepted. Failure of Lessee to remove its Communications Equipment at the expiration or termination of this Lease may result in Lessors removing the equipment and payment of all charges occasioned by such removal will be the responsibility of the Lessee.

7. Initial Term Rent .

a. Lessee shall pay Woodbury County, Iowa, administrator of funds of Starcomm Public Safety Board Ten Dollars ($10) and other good and valuable consideration as full consideration for the initial Term and all Renewal Terms of this Lease. Unless otherwise specified in this Lease, each party shall bear its own costs.

8. Use and Non-Interference of Premises. Lessee shall have the right to use the Property and Premises for the purpose of installing, removing, replacing, modifying, repairing, maintaining, and operating a communications facility including (without limitation) antennae and radios (including microwave antennae and radios); equipment cabinets; backup power sources (including batteries, generators and fuel storage tanks); and other associated equipment, fixtures, wiring, and cabling (collectively the "Communications Equipment"). The parties acknowledge that (a) the Communications Equipment will be owned by Lessee, the State of Iowa, or their respective assignee and (b) the Communications Equipment will be used for emergency services, public safety and other governmental purposes, including the Iowa State Patrol and other Iowa state agencies, and any federal, state, county, municipality or other governmental body, including any department or agency thereof. Lessee shall not do or permit any activities upon the Premises, which would cause interference to Lessor or with Lessor's principle use of the Premises as a Lattice Tower in the City of Sioux City, Iowa at 4647 Stone Ave behind "The Security Institute". The Lessee shall further not do or permit any activities upon the premises which would cause interference to Western Iowa Tech (WIT). In addition, Lessors and Lessee shall not do or permit any activities upon the Premises, which would cause or permit physical, electronic, or other interference with the radio transmission facilities, equipment, or signal of WIT's own radio station currently designated as KWIT. The Lessee will be allowed to install its Communications Equipment inside and outside the communications tower house. This is not an exclusive lease of the premises. Lessors retains the right to lease additional space to other Tenants provided that the additional Tenants' equipment does not interfere with the activities and transmission signals of the Lessee. Additionally, Lessor will continue to use the premises for their own business or public safety purposes. Lessor affirmatively covenants that except for acts of God, neither Lessor nor its employees, agents, representatives, invitees, other tenants or licensees

shall cause or allow others to cause interruption of electrical power or interruption of telephone service to the Communication Equipment.

9. Insurance and Indemnification.

Unless self-insured, at all times during the term of this Lease, Lessee shall at its expense carry and maintain for the mutual benefit of the Lessors:

a. Commercial General liability insurance against the claims for personal injury, death or property damage occurring in or about the Leased Premises or resulting from the installation, operation or maintenance of the Lessee's Communications Equipment on the Leased Premises, such insurance to be in the amount of $1,000,000.00 for personal injuries and deaths resulting from any one accident and for property damage in any one accident, and an aggregate coverage in the amount of $3,000,000.00 with Lessors included as additional insureds.

b. A Standard Workmen's Compensation and Employer's Liability Insurance Policy in the amount equal to the limit of liability and in a form prescribed by the laws of the state in which the Leased Premises is located.

c. Any contract workers contracted by Lessee shall also carry similar insurance as set forth in a. and b. above.

10. Damage or Destruction. If the Premises are damaged, destroyed by fire, winds, flood, or other natural or manmade cause, Lessors shall have the option to repair or replace the Premises at their sole expense, or to terminate this Lease effective on the date of such damage or destruction. Notwithstanding the foregoing, for purposes of implementing the ninety (90) day period specified in 6(d), the ninety (90) day period shall commence upon the later of (i) the Lessors having notified the Lessee of a decision not to repair or replace the Premises or (ii) sixty (60) days having passed without Lessors having notified Lessee of a decision to repair or replace the Premises (unless the Lessors have begun repair or replacement activities). In the event Lessors elect to terminate this Lease, Lessee shall have no further obligations hereunder. Lessors shall have up to sixty (60) days to decide on whether to repair or replace the Premises. Failure by Lessors to notify Lessee within sixty (60) days of Lessors' decision to repair or replace the Premises shall be deemed an election by Lessors to terminate this Lease, unless the Lessors have begun repair or replacement activities. If Lessors elect to repair or replace the Premises, Lessee shall have the option of either abating the rent due until such repair or replacement is completed and the Premises are restored to a condition that the Lessee can resume full operations at the Premises; or until Lessee begins operating a mobile telecommunication base station on the Premises. Lessee may immediately erect on an unused portion of the Property a temporary communications facility. In the event such repairs or restoration are not commenced within thirty (30) days or completed within ninety (90) days, Lessee may elect to terminate this Lease by so notifying Lessor in writing, The option to operate a mobile telecommunications base station on the Premises is subject to the Lessee obtaining all required State and local permits and obtaining verbal consent of the Starcomm Public Safety Board, said consent shall not be unreasonably withheld. Said verbal consent will be confirmed electronically or in writing by the Starcomm Public Safety Board within twenty-four (24) hours. If there is a condemnation of the Premises, then this Lease will terminate upon transfer of title to the condemning authority, without further liability to either party except for Lessor's obligation to reimburse Lessee for any prepaid fees. Lessee is entitled to pursue a separate condemnation award from the condemning authority. Lessor shall notify Lessee in writing within ten (10) days after it receives notice of any actual or contemplated condemnation proceedings.

11. Taxes. Lessors shall pay and be responsible for all taxes on the Premises, and Lessee shall pay and be responsible for all taxes due on Lessee's equipment and fixtures installed on the Premises.

12. Notices. Any notices required or permitted to be given hereunder shall be given in writing, and shall be deemed to have been given only upon receipt after mailing by certified or registered first class mail, postage prepaid, return receipt requested, or sending by reliable overnight courier and addressed to the parties as follows:

Lessors: Woodbury County, Iowa
Board of Supervisors
620 Douglas Street, Suite 104
Sioux City, Iowa 51101
Phone: 712-279-6525

Starcomm Public Safety Board
P.O. Box 447
Sioux City, Iowa 51102
ATTN: Glenn Sedivy
Phone: (712) 279-6959
Fax: (712 279-6157

City Clerk
City of Sioux City, Iowa
405 6th Street, P.O. Box 447
Sioux City, Iowa 51102

Lessee: Customer Support Manager, State of Iowa,
Motorola Solutions
1303 E. Algonquin Road
Schaumburg, IL 60196
ATTN: Dave Gordon
Phone: 319-377-6686

Law Department
Motorola Solutions, Inc.
500 W. Monroe St., 43rd Floor
Chicago, IL 60661
ATTN: Rich Heller
Phone: (847) 576-1817

13. Hazardous Materials. At no time during the term hereof shall the Lessee store, place, leave or deposit at the Tower or the Premises any substance or material which, if known to be present on or at such property, would require cleanup, removal or some other remedial action under any federal, state or local law, including statutes, regulations, ordinances, codes, rules and other governmental restrictions and requirements relating to the discharge of air pollutants, water pollutants, processed waste water, solid wastes, or otherwise relating to environmental hazardous substances, including but not limited to the Federal Solid Waste Disposal Act, the Federal Clean Air Act, the Federal Clean Water Act, the Federal Resource Conservation and Recovery Act of 1976, the Federal Comprehensive Environmental Response,

Compensation, and Liability Act of 1980, and all acts amendatory thereto, regulations of the Environmental Protection Agency, regulations of the Nuclear Regulatory Agency, and regulation of any State Department of Natural Resources or State Environmental Protection Agency now or at any time hereinafter in effect. The Lessee agrees to and does hereby indemnify and save the Lessors and owners harmless from any and all claims, demands, suits, actions, recoveries, judgments, costs and expenses relating in any way to Lessee's violation of this Section, and this indemnification obligation shall survive the expiration or termination of this Lease. Lessors acknowledge and agree that Lessee shall have no liability or responsibility whatsoever for any environmental violations or issues, at the tower or premises, existing prior to the date of Lessee's occupancy or otherwise not caused by Lessee. Lessor represents and warrants that it has no knowledge of any pre-existing environmental contamination on or about the Property or any substance, or chemical, or waste on the Property that is identified in any applicable state, federal, or local law or regulation as being hazardous, toxic, or dangerous. Lessor shall not introduce or allow any other tenant or licensee to introduce any such substance or chemical or waste onto, near or adjacent to the Property in violation of applicable law.

14. Miscellaneous Provisions.

a. Lessors warrant that (i) Lessors are the owners of the tower and owners and/or lessees of the tower site property; (ii) that Lessors have full right, power, and authority to execute this agreement and if necessary have obtained all necessary consents to sublease the Premises; (iii) that Lessor will not have unsupervised access to the Communication Equipment on the Premises; (iv) that the Property: (a) abuts a public right-of-way over which practical access is possible, or (b) is accessible over easements appurtenant to such site; and (v) that to the best of Lessor's knowledge making of this Lease and the performance thereof will not violate any zoning or other laws, ordinances, restrictive covenants or the provision of any mortgage, lease or other agreements under which Lessor is bound and which restricts itself in any way with respect to the use or disposition of the Property. Lessors covenant that Lessee, in paying Rent and performing the covenants by Lessee herein made, shall and may peacefully and quietly have, hold, and enjoy the Leased Premises.

b. Lessee may, at its expense, make such improvements to the Property and Premises as it deems necessary for the operation of the Communication Equipment with prior written approval of the Lessor. Lessee shall obtain all necessary governmental and regulatory approvals required for Lessee's occupation and use of the Premises, including but not limited to zoning changes, and shall be responsible for the cost of obtaining such approvals. Lessors shall cooperate with Lessee in obtaining such approvals.

c. The provisions of this Lease shall bind and inure to the benefit of the parties hereto and their heirs, legal representatives, successors and assigns. References to Lessee herein shall include Lessee's transferees, successors, and assigns. References to Lessor herein shall include Lessor's transferees, successors, and assigns.

d. This Lease and the attached exhibits contain the entire agreement of the parties with respect to its subject matter and supersede any prior oral or written agreements.

e. This Lease may be amended in writing only, signed by all the parties in interest at the time of such amendment.

f. Lessee may assign this Lease to the State of Iowa or any of its departments, agencies or designees, or to any of Lessee's affiliates without the prior consent of Lessor. In addition, in the event Lessee separates one or more of its businesses (each a "Separated Business"), whether by way of a sale, establishment of a joint venture, spin-off or otherwise (each a "Separation Event"), Lessee may, without the prior written consent of Lessor and at no additional cost to Lessee, assign this Lease such that it will continue to benefit

the Separated Business and its affiliates following the Separation Event. In the event of such a permitted transfer, Lessee shall provide written notice to Lessors of the Separation Event within thirty days of the completion of the Separation Event. This Lease shall continue as a direct lease between Lessor and any permitted transferee, and the original Lessee shall be released from any and all future liability hereunder. Lessee shall notify Lessors in writing of the name and address of any assignee. This Lease may be assigned by Lessors without the consent of Lessee provided that the assignee shall occupy and use the Premises subject to this Lease. Lessor shall notify Lessees in writing of the name and address of any assignee.

g. No waiver by either party of any provision herein shall be deemed a waiver of any other provision or of any prior or subsequent breach of any provision herein.

h. If any term or provision of this Lease is held to be invalid or unenforceable, such invalidity or unenforceability shall not be construed to affect any other provision of this Lease and the remaining provisions shall be enforceable in accordance with their terms.

i. This agreement shall be governed by and construed in accordance with the laws of the State of IOWA, without regard to its conflicts of law principles.

j. If Lessee does not vacate the Premises in accordance with the Lease terms upon valid termination of this Lease, such holding over shall be treated as creating a month to month tenancy. This holdover will not be approved for more than ninety (90) days. Rent during the holdover will be 150% of the current rent. Further, if Lessee does not vacate the Premises as required, Lessee's Communications Equipment may be removed by Lessors at Lessee's expense. Any bill for removal of Lessee's equipment by Lessors shall be paid in full within thirty (30) days of mailing.

k. Lessee may make, with prior approval from Lessors, reasonable alterations, additions, or improvements to the Premises necessary for its antennas, communication shelter, power cables and telephone cables, so long as the structural integrity of the Premises is not affected. Lessee will bear the total cost of such alterations, additions or improvements, including regular maintenance, and the cost of removal and returning the Premises to the condition it was at the time of entering into the Lease (subject to the terms of paragraph 6(d) of this Lease).

l. Lessee shall be solely responsible for maintenance of its Communications Equipment, and shall arrange for maintenance under separate contract for all such maintenance services. Lessee shall not expect or ask Lessors to do any special site maintenance for Lessee's antennas or shelter, unless Lessee enters into a separate maintenance contract with Lessors, which contract will be separate from the terms of this Lease (i.e.: in the event that some minor snow plowing is requested for Lessee's access to their shelter, Lessee will separately contract for that service under a separate document).

m. Lessee will bear any and all costs associated with temporary relocation of Lessee's equipment, if required, during repairs or painting of Lessors' building. Lessors will give Lessee at least thirty (30) days advance notice of scheduled repairs or painting of Lessors' building or tower which may affect Lessee's operation, so that Lessee can pre-plan for providing high-quality communications to Lessee's customers during any temporary relocation required by Lessors' repair or painting activities. Lessors are not required to provide notice of routine repairs, such as replacement of tower lights, which do not affect Lessee's operation. Lessors will provide Lessee notice of emergency repairs with at least twelve (12) hours prior notice unless it is impossible or impractical to do so and then the Lessee shall be provided with as much prior notice as possible under the emergency circumstances.

n. To the extent permitted by law, Lessee shall indemnify and hold Lessors harmless against all expenses, liabilities and claims of every kind, including reasonable attorney fees, to the extent arising from the negligent or wrongful acts or omissions of Lessee or anyone for whose acts Lessee may be liable and made necessary by or on behalf of any person or entity arising out of:

1) A failure by Lessee to perform any of the terms and conditions of this Lease; or

2) Any injury or damage happening on or about the Leased Premises which is caused in whole or in part by Lessee's use of the Premises, any act or omission of Lessee or anyone for whose acts Lessee may be liable; or

3) Any injury or damage to any employee, agent, or customer of Lessee or Lessors on or about the Leased Premises which is caused in whole or in part by Lessee's use of the Premises, any act or omission of Lessee or anyone for whose acts Lessee may be liable; or

4) Failure of Lessee to comply with any applicable laws or governmental authority; or

5) Any action brought by a third party for damages as a result of an injury caused by Lessee or action or inaction of the Lessee.

15. Approval. The parties agree that this Lease shall not be binding on either party unless and until it is fully executed by both parties. If this Lease is signed by only one party, it shall merely constitute an offer to lease. This Lease is subject to the consent to sublease by Western Iowa Tech (WIT), and subject to approval by Starcomm's Executive Board, the Woodbury County Board of Supervisors and the City Council of the City of Sioux City.

16. Utilities. Lessee shall be entitled to install any utilities and services required for the Communication Equipment. Lessor shall provide Lessee with such reasonable assistance as is necessary to enable Lessee to arrange for such utilities and services, including signing any easement or other instrument reasonably required by the utility company. Lessor represents that utilities required for Lessee's use of the Premises are available, and Lessee shall not be required to pay any share of such utilities and services as are used for the Communication Equipment. All electricity and any other utility services used by Lessee to operate the Communications Equipment will be paid by Lessor.

17. Compliance with Laws. The Parties shall comply with all applicable local, state, and federal government laws, codes and regulations, including without limitation FAA, FCC, NEPA, occupational health and safety, environmental, and electromagnetic (EME) requirements, and applicable requirements of the Americans with Disabilities Act.

18. Short Form Lease. The parties will, at any time upon the request of either one, promptly execute duplicate originals of an instrument, in recordable form, which will constitute a short form of this Lease setting forth a description of the premises, the term of this Lease and any portions hereof, excepting the rent and cost provisions.

19. Contingency for Due Diligence. Lessee shall have until the Commencement Date to conduct a due diligence examination of all factors affecting the Property and to satisfy itself in its sole discretion that the Property is suitable for Lessee's intended use. Lessor shall furnish Lessee with the legal description, coordinates, address or location and real estate tax numbers, if available, for the Property as well as copies of any title policies or searches, surveys or site drawings (including those dealing with utility or access easements), any Prime Lease or Ground Lease, including all amendments, current users of the Property and all broadcast frequencies and any studies dealing with structural, RF, engineering or environmental,

NEPA or EME matters, as well as other documentation reasonably requested by Lessee. Lessor shall also allow Lessee's personnel or its contractors to visit and investigate the Property and perform structural, engineering and environmental evaluations and tests. Lessor shall use its best efforts to obtain from the holder of any mortgage or deed of trust ("Mortgagee") a non-disturbance agreement in a form provided by or otherwise acceptable to Lessee. In the event Lessee is not satisfied with the Property or Lessee does not receive non-disturbance agreements from all Mortgagees Lessee shall have the right to terminate this Lease by so notifying Lessor in writing on or before the Commencement Date, in which event all funds paid by Lessee shall be returned to Lessee.

23. Brokers. Lessor and Lessee each represents to the other that he, she, or it did not deal with any broker or other person who may be entitled to a commission as a result of the transaction contemplated by this Lease, and Lessor and Lessee hereby agree to indemnify and hold the other harmless from a breach of the foregoing representation.

24. Counterparts: Facsimile Signatures. This Lease may be executed in one or more counterparts, each of which shall be deemed an original and all of which together shall constitute one and the same instrument. In addition, a true and correct facsimile copy or computer image of this Agreement shall be treated as and shall have the same effect as an original signed copy of this document.

25. Waiver of Lessor's Lien Rights. Lessor agrees that it does not have any lien rights in Lessee's personal property or the Communications Equipment.

26. Mutual Waiver of Consequential Damages and Limitation of Liability. NOTWTHSTANDING ANYTHING TO THE CONTRARY IN THIS LEASE, ALTHOUGH THE PARTIES ACKNOWLEDGE THE POSSIBILITY OF SUCH LOSSES OR DAMAGES, EACH PARTY AGREES THAT THE OTHER PARTY WILL NOT BE LIABLE FOR ANY COMMERCIAL LOSS; INCONVENIENCE; LOSS OF USE, TIME, DATA, GOOD WILL, REVENUES, PROFITS OR SAVINGS; OR OTHER SPECIAL, INCIDENTAL, INDIRECT, OR CONSEQUENTIAL DAMAGES IN ANY WAY RELATED TO OR ARISING FROM THIS LEASE, AND EXCEPT FOR PERSONAL INJURY, DEATH, OR DAMAGE TO TANGIBLE PROPERTY, EACH PARTY'S TOTAL LIABILITY, WHETHER FOR BREACH OF CONTRACT, WARRANTY, NEGLIGENCE, STRICT LIABILITY IN TORT, INDEMNIFICATION, OR OTHERWISE, WILL BE LIMITED TO THE DIRECT DAMAGES RECOVERABLE UNDER LAW, BUT NOT TO EXCEED $3,000,000.00. This limitation of liability provision survives the expiration or termination of this Lease and applies to the fullest extent permitted by law, notwithstanding any contrary provision.

REMAINDER OF THIS PAGE IS INTENTIONALLY LEFT BLANK

IN WITNESS WHEREOF the parties have executed this Agreement as of the date first above written.

CITY OF SIOUX CITY, IOWA

By _____
Robert E. Scott
Mayor of Sioux City, Iowa

Certification of City Clerk:

I, Lisa L. McCardle, certify that I am the City Clerk of the City of Sioux City, Iowa, and that Mayor Robert E. Scott, who executed this Agreement for and on behalf of the City, was duly authorized and empowered to do so as of _____ _____, 2017.

_____
Lisa L. McCardle,
City Clerk of the City of Sioux City, Iowa

WOODBURY COUNTY, IOWA

By _____
Matthew Ung
Chairperson

Certification of County Auditor:

I, Patrick Gill, certify that I am the County Auditor of the Woodbury County, Iowa and that Matthew Ung, who executed this Agreement for and on behalf of the County, was duly authorized and empowered to do so as of _____ _____. 2017

_____
Patrick Gill
Woodbury County Auditor

STARCOMM, WOODBURY, IOWA

By _____
Douglas Young
Chairperson

Certification of Starcomm:

I, Carrie Anfinson-Haden, certify that I am the Administrative Secretary for Starcomm and that Chairperson Douglas Young, who executed this Lease for and on behalf of Starcomm, was duly authorized and empowered to do so as of _____, 2017.

_____
Carie Anfinson-Haden,
Administrative Secretary for Starcomm

MOTOROLA SOLUTIONS, INC.

By _____

STATE OF _____)
: ss
COUNTY OF _____)

On this _____ day of _____ , 20 _____ before me, the undersigned a Notary Public in and for said County and State, personally appeared

_____

to me known to be the identical person named in and who executed the foregoing instrument, and acknowledged that they executed the same as their voluntary act and deed.

(SEAL)

_____
NOTARY PUBLIC in and for said COUNTY and STATE

EXHIBIT A

DESCRIPTION OF PROPERTY AND EQUIPMENT TO BE INSTALLED

This exhibit provides the address, location, and general description of the property subject to the Lease.

Legal Description:

The site is known as "WIT" consists of a self supporting tower, communications shelter, and backup generator. Additional antennas are planned for this tower resulting in tower strengthening work as documented in the loading analysis report (ISICS-93 WIT twr SA). With the exception of the antennas to be mounted on the tower, all new equipment is to be installed inside the equipment shelter.

Address or Location:

Western Iowa Tech (WIT)
4647 Stone Ave
Sioux City, IA

Coordinates:

42-29-06N/96-20-47W

Equipment to be installed on the tower:

- 21ft Omni directional antenna (SC412-HF2LDF) @ 305 feet
- 6ft parabolic dish (SB6-W60AC) @ 310 feet
- 6ft parabolic dish (SB6-W60AC) @ 279 feet
- 6ft parabolic dish (SB6-W60AC) @ 170 feet
- 4ft parabolic dish (SB4-W60AD) @ 138 feet

Equipment to be installed inside the shelter:

- Replace prime site LAN switches with 48 ports to add Geo-Prime Site Capability
- Voting comparators with FDMA/TDMA (DDM) capability
- 3 Base Radios to existing Expansion Radio Rack
- Coriant MPLS router
- Additional DC rectifiers to existing Eltek chassis to increase output capacity
- Additional battery strings to increase runtime
- Dispatch wireline connectivity (via backhaul network) to ISICS Core

ARMOR TOWER ENGINEERING

Structural Analysis of a 330 ft Self-Supporting Tower

Site Name: ISICS – 93 WIT
County: Woodbury
Location: Sioux City, IA

Checked By:

Derek Hartzell
Structural Design Engineer IV

LICENSED PROFESSIONAL ENGINEER
DMITRIY V. ALBUL
21016
IOWA

05/10/2016

Pyramid Network Services, LLC

6519 Towpath Rd

East Syracuse, NY 13057

May 2016

9 North Main Street, 2nd Floor, Cortland, NY 13045
(607)591-5381 Fax: (866)870-0840 www.ArmorTower.com

ARMOR TOWER ENGINEERING

May 10, 2016

James Reek
Pyramid Network Services
6519 Towpath Rd
East Syracuse, NY 13057

RE: ISICS – 93 WIT
S Lakeport St, Sioux City, IA

James:

We have completed the structural analysis of the subject tower and **have found it to be overloaded within the scope of this analysis to support the proposed antenna loading**. The tower was analyzed according to the requirements of TIA 222-G-2 standard for Woodbury County, IA for 90 mph (3-sec. gust) wind speed with no ice and 50 mph wind with 3/4" ice per the 2009 IBC as referenced by the 2010 Iowa State Building Code. Topographic Category 1, Exposure C, and Structure Class III were used in this analysis.

The subject tower is a 330' Sabre S3TL-29 self-supporting tower consisting of all-bolted sections with pipe legs and angle bracing. Tower face dimensions range from 5'0" at the top to 33'0" at the base. Foundation capacities are based on manufacturer's design reactions.

The loading used in the analysis consisted of the existing antennas/lines as well as the following:

- (1) proposed SC412-HF2LDF antenna @ 305' (height of tip @ 325') fed by 1-1/4" coax cable
- (3) proposed SB6-W60 dishes @ 170', 279' and 310' (each fed by one CNT-400)
- (1) proposed SB4-W60 dish @ 138' , lowered from 145' to avoid interference with the existing 8' dish (fed by one CNT-400)

The proposed feed lines were assumed to be located as shown on drawing E-7.

The results of the analysis showed one section of leg, eight sections of diagonals and four sections of horizontals being overloaded with a maximum stress rating of 206.5%. Note that a reinforcement design of these elements is outside the scope of this analysis but can be completed under separate contract. All other tower and foundation elements were loaded within allowable limits.

The maximum displacement of the proposed microwave dishes at service wind speed is as follows:

Elevation(ft)	*Dish*	*Displacement (deg)*
309.00	SB6-W60 @ 356.99°	0.56
279.00	SB6-W60 @ 356.99°	0.47
170.00	SB6-W60 @ 106.29°	0.19
138.00	SB4-W60 @ 106.29°	0.15

9 North Main Street, 2nd Floor, Cortland, NY 13045
(607)591-5381 Fax: (866)870-0840 www.ArmorTower.com

For a detailed listing of tower performance, please see pages 12 to 14 of the calculations.

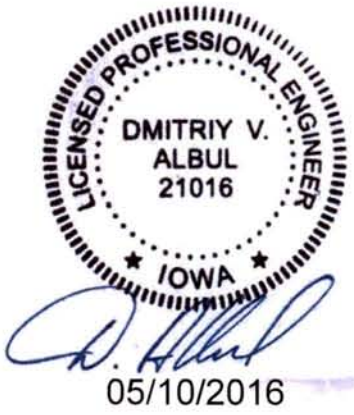
We appreciate the opportunity to provide our services to Pyramid Network Services, Motorola and Iowa State EMS and if you have any questions concerning this analysis, please contact us. Please let us know if we can be of further assistance in providing a price quote to design the reinforcement for this tower.

Sincerely,

ARMOR TOWER, INC.

Koussaila

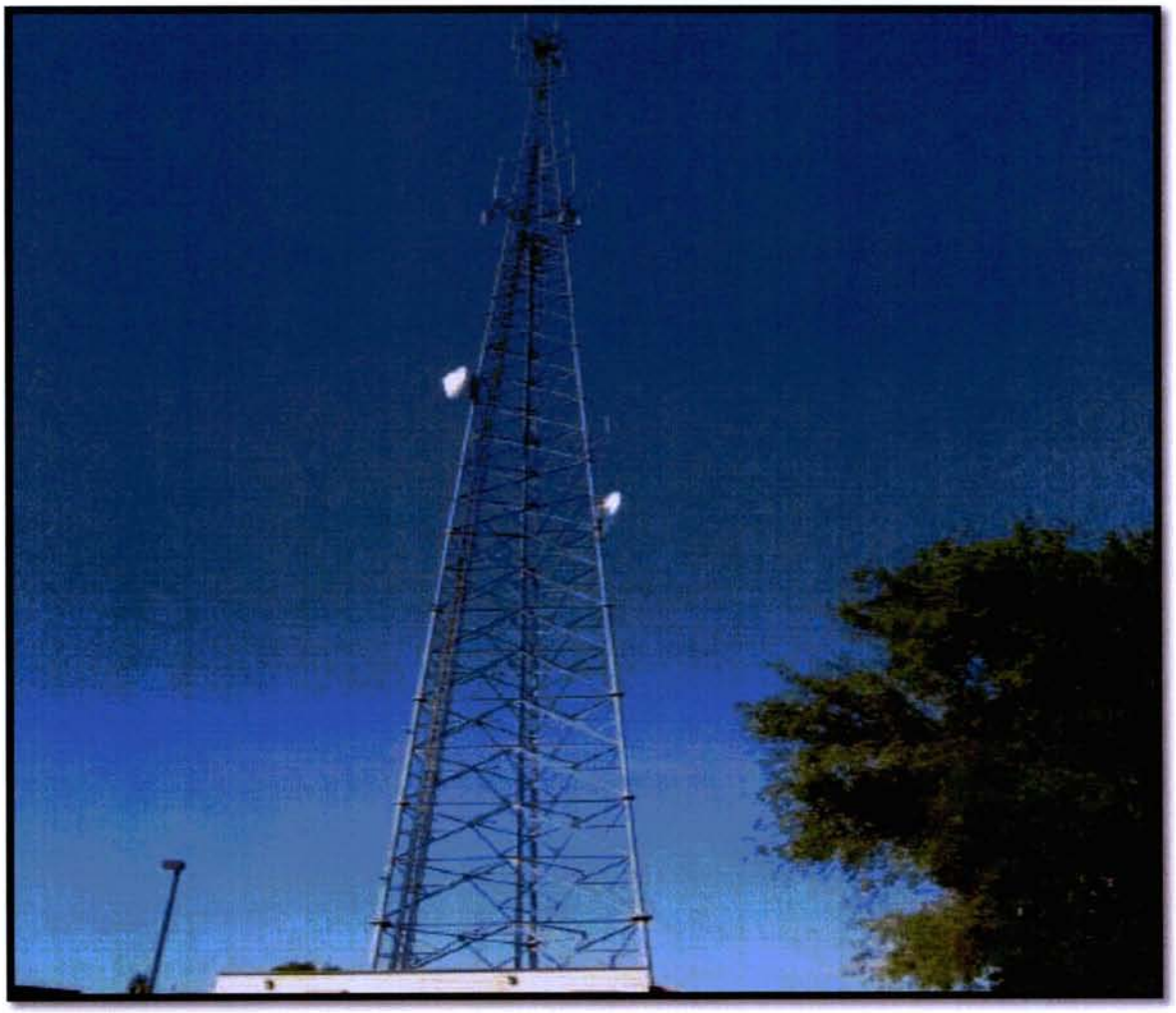
Koussaila Ait Oumessaoud
Structural Design Engineer I



05/10/2016

PRIMARY ASSUMPTIONS USED IN THE ANALYSIS

1. Leg A is assumed to be oriented Northwest.
2. Allowable steel stresses are defined by AISC-LRFD-13th Edition and all welds conform to AWS D1.1 specifications.
3. Armor Tower has been commissioned to analyze the tower according to the requirements of TIA 222-G-2 for Woodbury County, IA. Per this code, a basic wind speed of 90 mph (3-sec. gust) without ice and 40 mph with ¾" ice is recommended. This site is not within a special wind region according to the ASCE 7 wind map. Note that Section 3108.4 of the International Building Code states that "Towers shall be designed to resist wind loads according to TIA/EIA-222".
4. The acceptability of the analyzed antenna loading is the responsibility of Pyramid Network Services and its affiliates to confirm with the tower owner.
5. Any deviation from the analyzed antenna loading will require a re-analysis of the tower for verification of structural integrity. The proposed feed lines must be located as shown on drawing E-7.
6. This analysis assumes all tower members are galvanized adequately to prevent corrosion of the steel and that all tower members are in "like new" condition with no physical deterioration. This analysis also assumes the tower has been maintained properly per TIA 222-G Annex J recommended inspection and maintenance procedures for tower owners and is in a plumb condition. Armor Tower has not completed a condition assessment of the tower.
7. No accounting for residual stresses due to incorrect tower erection can be made. This analysis assumes all bolts are appropriately tightened providing necessary connection continuity and that the installation of the tower was performed by a qualified tower erector.
8. This analysis has compared the current reactions with the tower design reactions. It is our assumption that the foundations were properly designed and installed and are able to develop the full tower design reactions.
9. No conclusions, expressed or implied, shall indicate that Armor Tower has made an evaluation of the original design, materials, fabrication, or potential installation or erection deficiencies. Any information contrary to that assumed for the purpose of preparing this analysis could alter the findings and conclusions stated herein.
10. Tower member sizes and geometry is based on customer-supplied data, Sabre Communications drawings dated July 29, 2004. Existing equipments are based on a mapping report done by SGS dated July 7, 2015. It is our assumption that this data is complete and accurately reflects the existing conditions of the tower and equipment. Armor Tower has not been commissioned to field validate this data. Armor Tower reserves the right to add to or modify this report as more information becomes available. Proposed equipment was outlined in the files (RF design State of Iowa Site Book9f) and (State of Iowa Summary using Leased Towers for MW Repeaters) sheets supplied by the customer.



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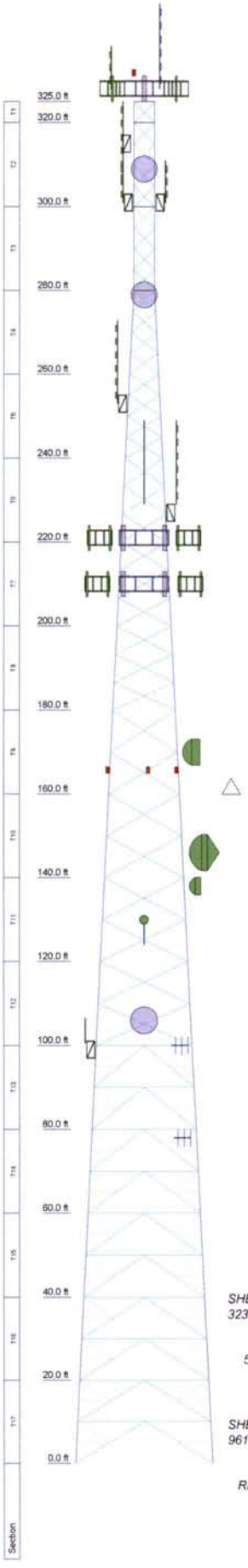

DESIGNED APPURTENANCE LOADING

TYPE	ELEVATION	TYPE	ELEVATION
Flash Beacon Lighting	330	LPA-185063/12CF W. MtgPipe (Alpha)	221
Halo Mount	328	LPA-185063/12CF W. MtgPipe (Alpha)	221
18' Dipole	328	TMA (9"x12"x3") (Beta)	212
18' Dipole	328	TMA (9"x12"x3") (Beta)	212
10' Dipole	328	TMA (9"x12"x3") (Gamma)	212
10' Dipole	328	TMA (9"x12"x3") (Alpha)	212
12"x4"x3" TMA	328	TMA (9"x12"x3") (Gamma)	212
1.5"Sch40 x 8ft (P-Motorola Stabilizer)	324	TMA (9"x12"x3") (Alpha)	212
1.5"Sch40 x 8ft (Stabilizer)	321	(2) BTS/520015	210
3' Sidearm Mount (P-Motorola)	315	3'x6"x3" Antenna	210
4"Sch40 x 6ft (dish mount) (P-Motorola)	309	3'x6"x3" Antenna	210
		6' Sector Boom	210
SB6-W60 (P-Motorola @ 356.99°)	309	3'x6"x3" Antenna	210
SC412-HF2LDF (P-Motorola)	305	3'x6"x3" Antenna	210
3' Sidearm Mount	301	6' Sector Boom	210
3' Sidearm Mount	301	(2) BTS/520015	210
3' Sidearm Mount	301	4"Sch40 x 6ft (dish mount) (P-Motorola)	170
20' Dipole	301		
10' Dipole	301	SB6-W60 (P-Motorola @ 106.29°)	170
10' Dipole	301	OB Light	165
4"Sch40 x 6ft (dish mount) (P-Motorola)	279	OB Light	165
		OB Light	165
SB6-W60 (P-Motorola @ 356.99°)	279	Camera	147
1.5"Sch40 x 8ft (Stabilizer)	263	4"Sch40 x 6ft (Dish mount)	146
1.5"Sch40 x 8ft (Stabilizer)	263	1.25 Sch.40 x 15ft (Dish support)	146
3' Sidearm Mount	253	RFS PAD8-59	146
3' Sidearm Mount	253	4"Sch40 x 6ft (dish mount) (P-Motorola)	138
DB204-A	253		
DB204-A	253	SB4-W60 (P-Motorola @ 106.29°)	138
1.5"Sch40 x 8ft (Stabilizer)	249	1.5"Sch40 x 5ft (Dish mount)	130
1.5"Sch40 x 8ft (Stabilizer)	249	M# SP-4.7/2' Dia. Dish	130
DB264-A	227	SODU/ExtendAir	129
3' Sidearm Mount	227	3' Sidearm Mount	124
DB224	225	MFB4803	124
3' Sidearm Mount	225	RFS PAD6/59	106
LPA-185063/12CF W. MtgPipe (Gamma)	221	4"Sch40 x 6ft (Dish mount)	106
		Yagi	100
LPA-185063/12CF W. MtgPipe (Gamma)	221	DB230-J	99
		3' Sidearm Mount	99
LPA-185063/12CF W. MtgPipe (Beta)	221	6' omni	99
LPA-185063/12CF W. MtgPipe (Beta)	221	Yagi	78
Sabre 12' T-Boom (set of 3)	221		

MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A500-50	50 ksi	62 ksi	A36	36 ksi	58 ksi

TOWER DESIGN NOTES

1. Tower is located in Woodbury County, Iowa.
2. Tower designed for Exposure C to the TIA-222-G Standard.
3. Tower designed for a 90.00 mph basic wind in accordance with the TIA-222-G Standard.
4. Tower is also designed for a 50.00 mph basic wind with 0.75 in ice. Ice is considered to increase in thickness with height.
5. Deflections are based upon a 60.00 mph wind.
6. Tower Structure Class III.
7. Topographic Category 1 with Crest Height of 0.00 ft
8. Connections use galvanized A325 bolts, nuts and locking devices. Installation per TIA/EIA-222 and AISC Specifications.
9. Tower members are "hot dipped" galvanized in accordance with ASTM A123 and ASTM A153 Standards.
10. Welds are fabricated with ER-70S-6 electrodes.
11. Appurtenance are indicated as (P)roposed. All others are existing.
12. TOWER RATING: 206.5%

ALL REACTIONS ARE FACTORED

MAX. CORNER REACTIONS AT BASE:
DOWN: 533820 lb
SHEAR: 57541 lb

UPLIFT: -454828 lb
SHEAR: 49877 lb

AXIAL 275265 lb
SHEAR 32309 lb *MOMENT 5512 kip-ft*
TORQUE 11 kip-ft
50.00 mph WIND - 0.75 in ICE
AXIAL 83987 lb
SHEAR 96148 lb *MOMENT 14459 kip-ft*
TORQUE 31 kip-ft
REACTIONS - 90.00 mph WIND

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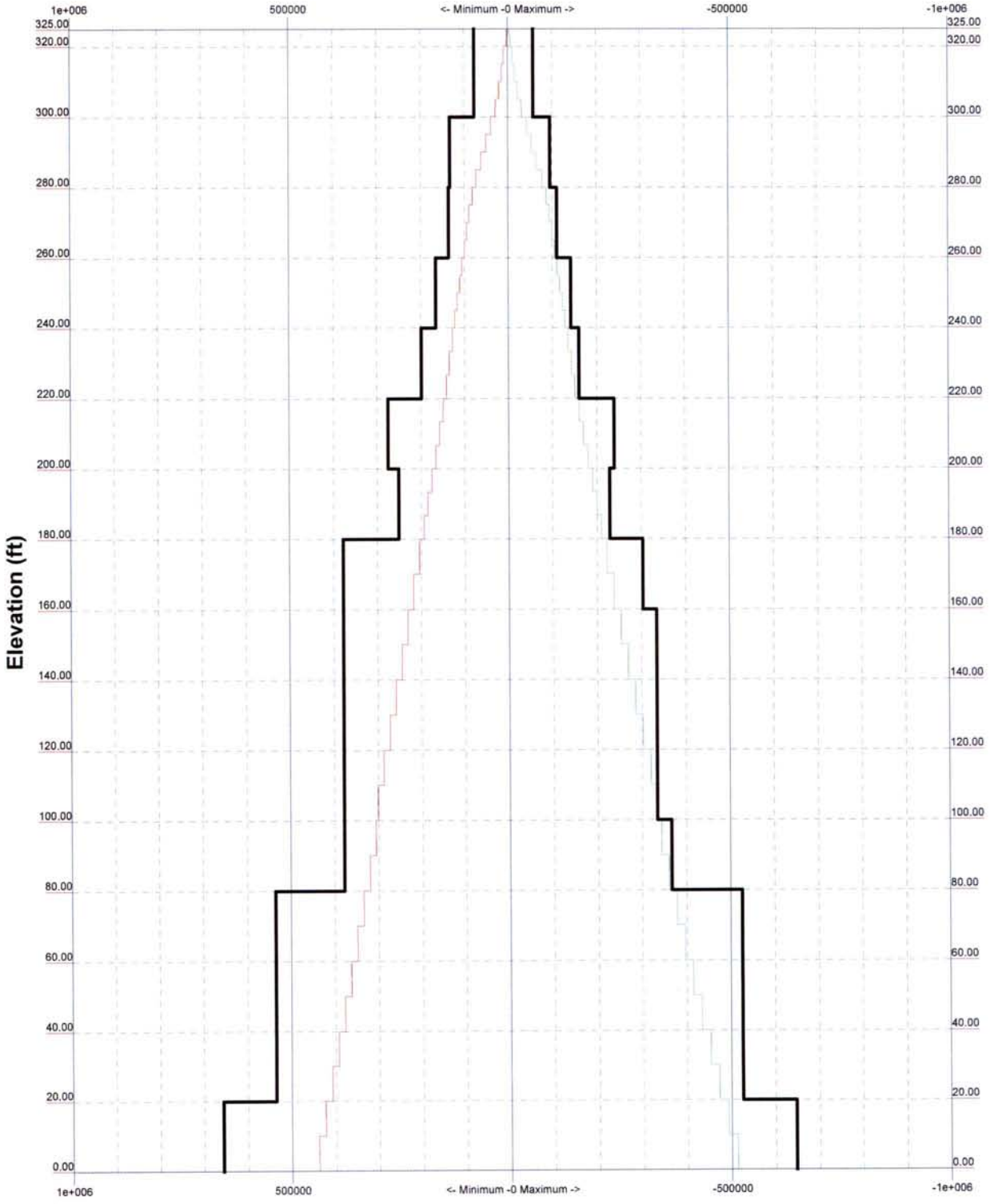
Project: ISICS - 93 WIT			
Client: Pyramid Network Services	Drawn by: KA	App'd:	
Code: TIA-222-G	Date: 05/10/16	Scale: NTS	
Path:		Dwg No. E-1	

TIA-222-G - 90.00 mph/50.00 mph 0.75 in Ice Exposure C

Leg Capacity ——— Leg Compression (lb)



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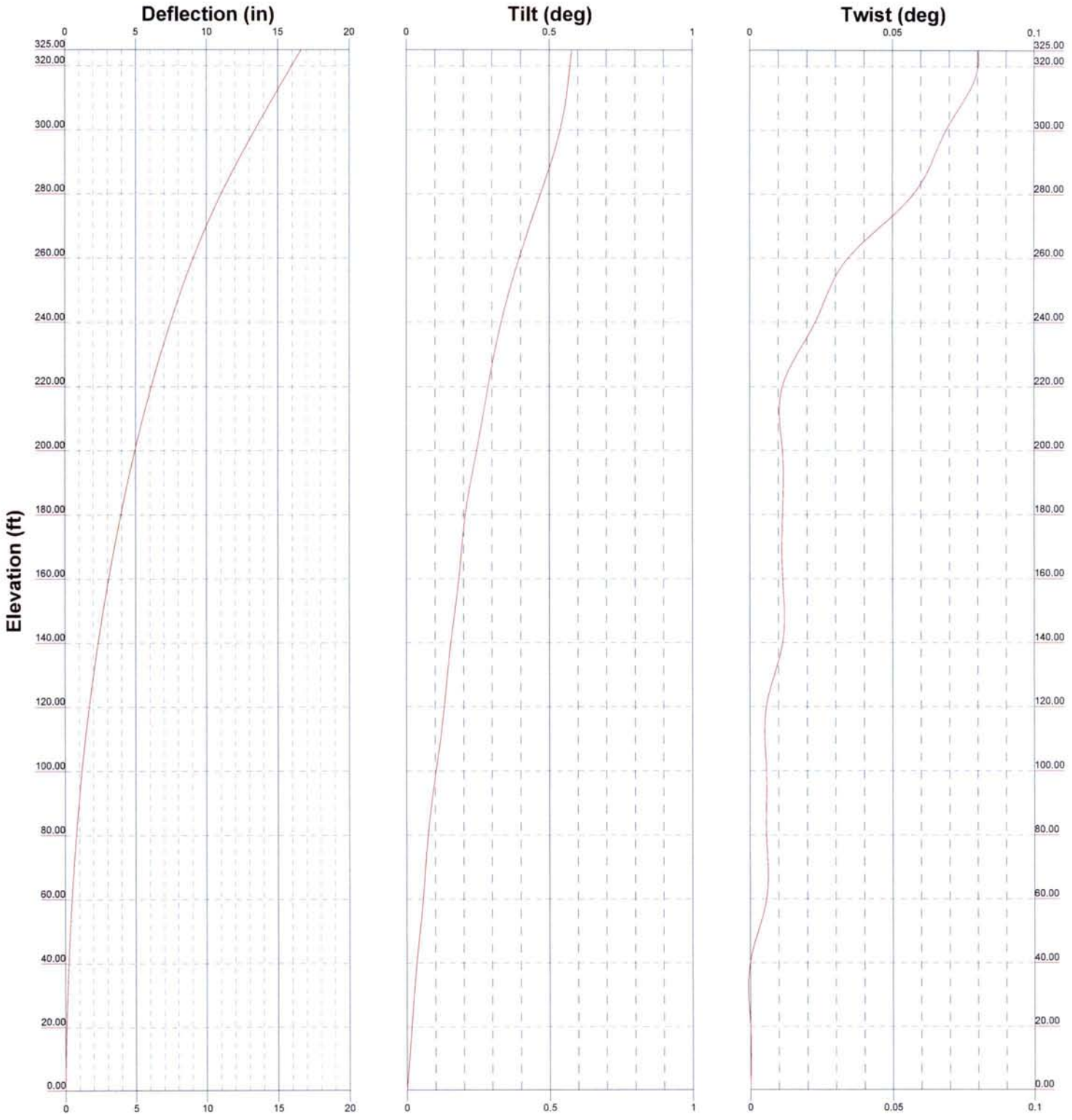
		Project: ***ISICS - 93 WIT***	
		Client: Pyramid Network Services	Drawn by: KA / App'd:
		Code: TIA-222-G	Date: 05/10/16 / Scale: NTS
		Path: Z:\Pyramid Network Srvc\Iowa State EMS\93 WIT\2016-04 twr SA\tnx folder\93 WIT.eri	Dwg No. E-3

TIA-222-G - Service - 60.00 mph

Maximum Values



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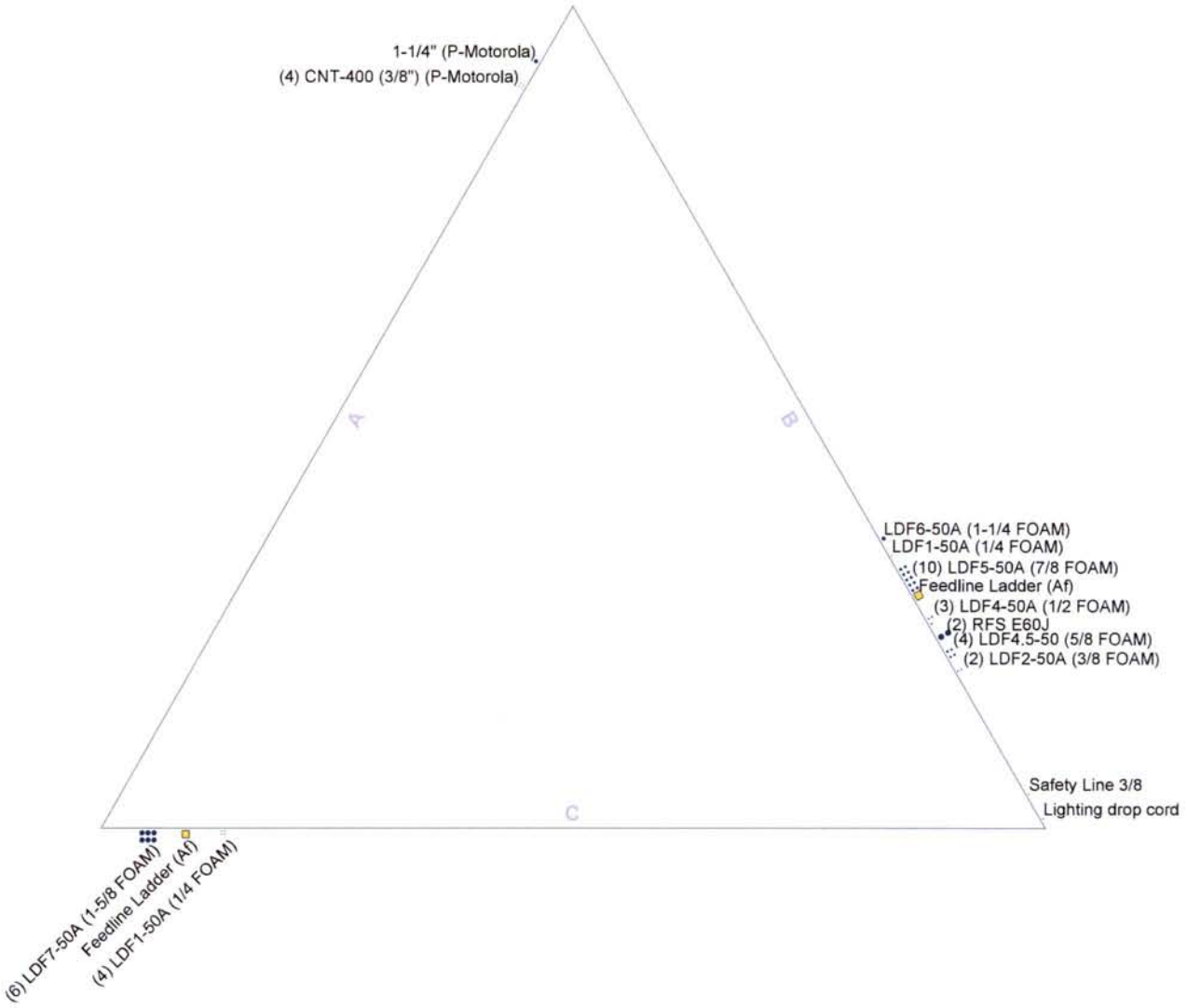
Path: Z:\Pyramid Network Svcs\Iowa State EMS\93 WIT\2016-04 twr SA\tnx folder\93 WIT.eri		Dwg No. E-5	

Feed Line Plan

Round Flat App In Face App Out Face



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Job: 330' SELF-SUPPORTING TOWER ANALYSIS			
Project: ISICS - 93 WIT			
Client: Pyramid Network Services	Drawn by: KA	App'd:	
Code: TIA-222-G	Date: 05/10/16	Scale: NTS	
Path: Z:\Pyramid Network Svcs\Iowa State EMS\93 WIT\2016-04 twr SA\tnx folder\93 WIT.eri		Dwg No. E-7	

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Pyramid Network Services	KA

Load Combinations

Comb. No.	*Description*
1	Dead Only
2	1.2 Dead+1.6 Wind 0 deg - No Ice
3	0.9 Dead+1.6 Wind 0 deg - No Ice
4	1.2 Dead+1.6 Wind 30 deg - No Ice
5	0.9 Dead+1.6 Wind 30 deg - No Ice
6	1.2 Dead+1.6 Wind 60 deg - No Ice
7	0.9 Dead+1.6 Wind 60 deg - No Ice
8	1.2 Dead+1.6 Wind 90 deg - No Ice
9	0.9 Dead+1.6 Wind 90 deg - No Ice
10	1.2 Dead+1.6 Wind 120 deg - No Ice
11	0.9 Dead+1.6 Wind 120 deg - No Ice
12	1.2 Dead+1.6 Wind 150 deg - No Ice
13	0.9 Dead+1.6 Wind 150 deg - No Ice
14	1.2 Dead+1.6 Wind 180 deg - No Ice
15	0.9 Dead+1.6 Wind 180 deg - No Ice
16	1.2 Dead+1.6 Wind 210 deg - No Ice
17	0.9 Dead+1.6 Wind 210 deg - No Ice
18	1.2 Dead+1.6 Wind 240 deg - No Ice
19	0.9 Dead+1.6 Wind 240 deg - No Ice
20	1.2 Dead+1.6 Wind 270 deg - No Ice
21	0.9 Dead+1.6 Wind 270 deg - No Ice
22	1.2 Dead+1.6 Wind 300 deg - No Ice
23	0.9 Dead+1.6 Wind 300 deg - No Ice
24	1.2 Dead+1.6 Wind 330 deg - No Ice
25	0.9 Dead+1.6 Wind 330 deg - No Ice
26	1.2 Dead+1.0 Ice+1.0 Temp
27	1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp
28	1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp
29	1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp
30	1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp
31	1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp
32	1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp
33	1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp
34	1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp
35	1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp
36	1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp
37	1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp
38	1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp
39	Dead+Wind 0 deg - Service
40	Dead+Wind 30 deg - Service
41	Dead+Wind 60 deg - Service
42	Dead+Wind 90 deg - Service
43	Dead+Wind 120 deg - Service
44	Dead+Wind 150 deg - Service
45	Dead+Wind 180 deg - Service
46	Dead+Wind 210 deg - Service
47	Dead+Wind 240 deg - Service
48	Dead+Wind 270 deg - Service
49	Dead+Wind 300 deg - Service
50	Dead+Wind 330 deg - Service

ARMOR TOWER ENGINEERING

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Maximum Tower Deflections - Service Wind

Section No.	*Elevation*	*Horz. Deflection*	*Gov. Load Comb.*	*Tilt*	*Twist*
	ft	*in*		°	°
T1	325 - 320	16.65	39	0.577	0.078
T2	320 - 300	15.99	39	0.574	0.078
T3	300 - 280	13.40	39	0.537	0.071
T4	280 - 260	11.04	39	0.471	0.054
T5	260 - 240	9.07	39	0.395	0.035
T6	240 - 220	7.47	39	0.333	0.022
T7	220 - 200	6.11	47	0.284	0.014
T8	200 - 180	4.95	47	0.249	0.009
T9	180 - 160	3.95	47	0.209	0.009
T10	160 - 140	3.09	47	0.182	0.010
T11	140 - 120	2.34	47	0.156	0.010
T12	120 - 100	1.70	47	0.129	0.008
T13	100 - 80	1.19	47	0.102	0.007
T14	80 - 60	0.78	47	0.075	0.005
T15	60 - 40	0.47	43	0.055	0.004
T16	40 - 20	0.24	43	0.036	0.002
T17	20 - 0	0.09	43	0.016	0.001

Critical Deflections and Radius of Curvature - Service Wind

Elevation	*Appurtenance*	*Gov. Load Comb.*	*Deflection*	*Tilt*	*Twist*	*Radius of Curvature*
ft			*in*	°	°	*ft*
330.00	Flash Beacon Lighting	39	16.65	0.577	0.078	68446
328.00	Halo Mount	39	16.65	0.577	0.078	68446
324.00	1.5"Sch40 x 8ft	39	16.52	0.576	0.078	68446
321.00	1.5"Sch40 x 8ft	39	16.12	0.575	0.078	68446
315.00	3' Sidearm Mount	39	15.33	0.569	0.077	44251
309.00	SB6-W60	39	14.54	0.558	0.075	32135
305.00	SC412-HF2LDF	39	14.03	0.549	0.073	27130
301.00	3' Sidearm Mount	39	13.52	0.539	0.071	23262
279.00	SB6-W60	39	10.93	0.467	0.053	11205
263.00	1.5"Sch40 x 8ft	39	9.34	0.406	0.037	12110
253.00	3' Sidearm Mount	39	8.47	0.372	0.029	14565
249.00	1.5"Sch40 x 8ft	39	8.15	0.359	0.027	16260
227.00	DB264-A	47	6.56	0.299	0.016	24681
225.00	DB224	47	6.43	0.295	0.015	25147
221.00	Sabre 12' T-Boom (set of 3)	47	6.18	0.286	0.014	26027
212.00	TMA (9"x12"x3")	47	5.62	0.269	0.012	26429
210.00	6' Sector Boom	47	5.51	0.266	0.011	26438
170.00	SB6-W60	47	3.50	0.194	0.010	40277
165.00	OB Light	47	3.29	0.188	0.010	43476
147.00	Camera	47	2.59	0.166	0.010	42224
146.00	RFS PAD8-59	47	2.55	0.164	0.010	41883
138.00	SB4-W60	47	2.27	0.153	0.010	40206
130.00	M# SP-4.7/2' Dia. Dish	47	2.01	0.143	0.009	40898
129.00	SODU/ExtendAir	47	1.97	0.141	0.009	40996
124.00	3' Sidearm Mount	47	1.82	0.134	0.008	41489
106.00	RFS PAD6/59	47	1.33	0.110	0.007	39015
100.00	Yagi	47	1.19	0.102	0.007	38685
99.00	3' Sidearm Mount	47	1.16	0.100	0.007	39075
78.00	Yagi	47	0.75	0.072	0.005	61277

ARMOR TOWER ENGINEERING

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Bolt Design Data

Section No.	Elevation ft	Component Type	Bolt Grade	Maximum Load per Bolt lb	Allowable Load lb	Ratio Load / Allowable	Allowable Ratio	Criteria
T1	325	Diagonal	A325X	3181.65	5811.33	0.547 ✔	1	Member Block Shear
		Top Girt	A325X	714.24	5220.00	0.137 ✔	1	Member Bearing
T2	320	Diagonal	A325X	4348.76	5811.33	0.748 ✔	1	Member Block Shear
		Top Girt	A325X	635.81	5811.33	0.109 ✔	1	Member Block Shear
T3	300	Diagonal	A325X	5671.24	5811.33	0.976 ✔	1	Member Block Shear
		Top Girt	A325X	339.26	5811.33	0.058 ✔	1	Member Block Shear
T4	280	Diagonal	A325X	3726.58	5811.33	0.641 ✔	1	Member Block Shear
		Top Girt	A325X	644.78	13050.00	0.049 ✔	1	Member Bearing
T5	260	Diagonal	A325X	3721.47	5811.33	0.640 ✔	1	Member Block Shear
T6	240	Diagonal	A325X	4207.38	6830.86	0.616 ✔	1	Member Block Shear
T7	220	Diagonal	A325X	6429.77	7830.00	0.821 ✔	1	Member Bearing
T8	200	Diagonal	A325X	6891.23	8971.88	0.768 ✔	1	Member Block Shear
T9	180	Diagonal	A325X	8214.83	12615.00	0.651 ✔	1	Member Bearing
T10	160	Diagonal	A325X	9373.64	12615.00	0.743 ✔	1	Member Bearing
T11	140	Diagonal	A325X	10859.80	12615.00	0.861 ✔	1	Member Bearing
T12	120	Diagonal	A325X	11975.00	12615.00	0.949 ✔	1	Member Bearing
T13	100	Diagonal	A325X	8053.49	10263.30	0.785 ✔	1	Member Block Shear
		Horizontal	A325X	5906.72	10263.30	0.576 ✔	1	Member Block Shear
T14	80	Diagonal	A325X	8280.43	10263.30	0.807 ✔	1	Member Block Shear
		Horizontal	A325X	6567.32	11622.70	0.565 ✔	1	Member Block Shear
T15	60	Diagonal	A325X	8976.41	11622.70	0.772 ✔	1	Member Block Shear
		Horizontal	A325X	7244.70	14528.30	0.499 ✔	1	Member Block Shear
T16	40	Diagonal	A325X	9369.89	12506.30	0.749 ✔	1	Member Block Shear
		Horizontal	A325X	7840.26	18759.40	0.418 ✔	1	Member Block Shear
T17	20	Diagonal	A325X	9775.12	12506.30	0.782 ✔	1	Member Block Shear
		Horizontal	A325X	8488.70	18759.40	0.453 ✔	1	Member Block Shear

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Compression Checks

Leg Design Data (Compression)

Section No.	Elevation	L	L_u	Kl/r	A	P_u	ϕP_n	Ratio $\frac{P_u}{\phi P_n}$
	ft	ft	ft		in^2	lb	lb	
T1	325 - 320	5.00	5.00	63.3 K=1.00	1.70	-8069.65	57192.30	0.141 [1] ✓
T2	320 - 300	20.00	5.00	63.3 K=1.00	1.70	-32282.90	57192.30	0.564 [1] ✓
T3	300 - 280	20.00	5.00	67.1 K=1.00	2.95	-77531.30	95329.90	0.813 [1] ✓
T4	280 - 260	20.03	5.01	52.9 K=1.00	3.02	-105780.00	110613.00	0.956 [1] ✓
T5	260 - 240	20.03	5.01	46.0 K=1.00	3.68	-129426.00	141805.00	0.913 [1] ✓
T6	240 - 220	20.03	6.68	54.3 K=1.00	4.41	-151917.00	159914.00	0.950 [1] ✓
T7	220 - 200	20.03	6.68	43.6 K=1.00	6.11	-180788.00	239211.00	0.756 [1] ✓
T8	200 - 180	20.03	6.68	35.7 K=1.00	5.58	-211099.00	228830.00	0.923 [1] ✓
T9	180 - 160	20.03	10.02	54.8 K=1.00	8.40	-238889.00	303748.00	0.786 [1] ✓
T10	160 - 140	20.03	10.02	40.9 K=1.00	8.40	-270083.00	334421.00	0.808 [1] ✓
T11	140 - 120	20.03	10.02	40.9 K=1.00	8.40	-303423.00	334421.00	0.907 [1] ✓
T12	120 - 100	20.03	10.02	40.9 K=1.00	8.40	-337339.00	334421.00	1.009 [1] ✗
T13	100 - 80	20.03	5.01	20.5 K=1.00	8.40	-361159.00	366576.00	0.985 [1] ✓
T14	80 - 60	20.03	5.01	16.4 K=1.00	11.91	-397098.00	525490.00	0.756 [1] ✓
T15	60 - 40	20.03	5.01	16.4 K=1.00	11.91	-434356.00	525490.00	0.827 [1] ✓
T16	40 - 20	20.03	5.01	16.4 K=1.00	11.91	-473437.00	525490.00	0.901 [1] ✓
T17	20 - 0	20.03	5.01	13.7 K=1.00	14.58	-513832.00	647072.00	0.794 [1] ✓

Diagonal Design Data (Compression)

Section No.	Elevation	L	L_u	Kl/r	A	P_u	ϕP_n	Ratio $\frac{P_u}{\phi P_n}$
	ft	ft	ft		in^2	lb	lb	
T1	325 - 320	6.20	3.10	108.3 K=1.00	0.62	-1598.46	10848.60	0.147 [1] ✓
T2	320 - 300	6.20	3.10	108.3	0.62	-4202.92	10848.60	0.387 [1]

ARMOR TOWER ENGINEERING	Job: 330' SELF-SUPPORTING TOWER ANALYSIS	Page: 5 of 12
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	Client: Pyramid Network Services	Designed by: KA

Section No.	Elevation ft	L ft	L_u ft	Kl/r	A in^2	P_u lb	ϕP_n lb	Ratio $\frac{P_u}{\phi P_n}$
				K=1.00				✔
T3	300 - 280	6.20	3.10	108.3 K=1.00	0.62	-5601.22	10848.60	0.516 [1] ✔
T4	280 - 260	7.45	3.86	135.0 K=1.00	0.62	-3442.18	7696.82	0.447 [1] ✔
T5	260 - 240	9.08	4.67	163.1 K=1.00	0.62	-3841.89	5274.61	0.728 [1] ✔
T6	240 - 220	11.55	5.95	181.3 K=1.00	0.71	-4526.32	4911.55	0.922 [1] ✔
T7	220 - 200	13.20	6.77	164.2 K=1.00	0.90	-6646.75	7562.30	0.879 [1] ✔
T8	200 - 180	14.87	7.60	184.4 K=1.00	0.90	-7085.24	5995.62	1.182 [1] ✘
T9	180 - 160	18.07	9.31	188.7 K=1.00	1.44	-8371.74	9140.37	0.916 [1] ✔
T10	160 - 140	19.65	10.09	191.9 K=1.00	1.56	-9629.97	9571.06	1.006 [1] ✘
T11	140 - 120	21.42	10.97	189.7 K=1.00	1.69	-11217.60	10607.30	1.058 [1] ✘
T12	120 - 100	23.23	11.87	194.1 K=1.00	1.81	-12430.40	10851.30	1.146 [1] ✘
T13	100 - 80	16.01	15.55	200.6 K=1.00	1.44	-16683.40	8080.38	2.065 [1] ✘
T14	80 - 60	16.80	15.85	151.9 K=0.88	1.56	-17475.30	15271.70	1.144 [1] ✘
T15	60 - 40	17.62	16.68	143.3 K=0.91	1.81	-19118.00	19923.00	0.960 [1] ✔
T16	40 - 20	18.45	17.46	147.8 K=0.89	1.81	-20010.40	18717.30	1.069 [1] ✘
T17	20 - 0	19.30	18.22	152.2 K=0.88	1.81	-20688.30	17645.80	1.172 [1] ✘

Horizontal Design Data (Compression)

Section No.	Elevation ft	L ft	L_u ft	Kl/r	A in^2	P_u lb	ϕP_n lb	Ratio $\frac{P_u}{\phi P_n}$
T13	100 - 80	24.00	11.64	221.4 K=1.00	1.56	-12206.50	7191.31	1.697 [1] ✘
T14	80 - 60	26.00	12.35	182.5 K=0.90	1.81	-13313.60	12276.30	1.084 [1] ✘
T15	60 - 40	28.00	13.35	183.0 K=0.90	2.40	-14630.80	16194.50	0.903 [1] ✔

ARMOR TOWER ENGINEERING
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Section No.	Elevation ft	L ft	L_u ft	Kl/r	A in^2	P_u lb	ϕP_n lb	Ratio $\frac{P_u}{\phi P_n}$
T16	40 - 20	30.00	14.32	208.8 K=0.88	2.67	-15759.30	13842.00	1.139 [1] ✗
T17	20 - 0	32.00	15.24	220.3 K=0.88	2.67	-16992.60	12430.90	1.367 [1] ✗

Top Girt Design Data (Compression)

Section No.	Elevation ft	L ft	L_u ft	Kl/r	A in^2	P_u lb	ϕP_n lb	Ratio $\frac{P_u}{\phi P_n}$
T1	325 - 320	5.00	4.76	122.7 K=1.00	1.36	-995.30	19963.70	0.050 [1] ✓
T2	320 - 300	5.00	4.76	166.3 K=1.00	0.62	-1044.85	5071.88	0.206 [1] ✓
T3	300 - 280	5.00	4.76	166.3 K=1.00	0.62	-402.83	5071.88	0.079 [1] ✓
T4	280 - 260	5.00	4.76	166.3 K=1.00	0.62	-644.78	5071.88	0.127 [1] ✓

Redundant Horizontal (1) Design Data (Compression)

Section No.	Elevation ft	L ft	L_u ft	Kl/r	A in^2	P_u lb	ϕP_n lb	Ratio $\frac{P_u}{\phi P_n}$
T13	100 - 80	6.00	5.64	114.3 K=1.00	1.44	-6263.27	23443.30	0.267 [1] ✓
T14	80 - 60	6.50	6.05	122.7 K=1.00	1.44	-6886.53	21126.30	0.326 [1] ✓
T15	60 - 40	7.00	6.55	133.9 K=1.00	2.11	-7532.65	26569.10	0.284 [1] ✓
T16	40 - 20	7.50	7.05	144.2 K=1.00	2.11	-8210.41	22935.10	0.358 [1] ✓
T17	20 - 0	8.00	7.47	152.7 K=1.00	2.11	-8910.93	20447.50	0.436 [1] ✓

Redundant Diagonal (1) Design Data (Compression)

Section No.	Elevation ft	L ft	L_u ft	Kl/r	A in^2	P_u lb	ϕP_n lb	Ratio $\frac{P_u}{\phi P_n}$
T13	100 - 80	7.62	7.15	144.8 K=1.00	1.44	-3977.83	15508.50	0.256 [1] ✓
T14	80 - 60	8.01	7.43	150.6	1.44	-4240.62	14335.50	0.296 [1]

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Section No.	Elevation ft	L ft	L_u ft	Kl/r	A in^2	P_u lb	ϕP_n lb	Ratio $\frac{P_u}{\phi P_n}$
				K=1.00				✔
T15	60 - 40	8.40	7.84	159.0	1.44	-4520.34	12867.90	0.351 [1]
				K=1.00				✔
T16	40 - 20	8.81	8.26	167.5	1.44	-4821.23	11593.00	0.416 [1]
				K=1.00				✔
T17	20 - 0	9.22	8.59	163.4	1.56	-5137.19	13200.30	0.389 [1]
				K=1.00				✔

Inner Bracing Design Data (Compression)

Section No.	Elevation ft	L ft	L_u ft	Kl/r	A in^2	P_u lb	ϕP_n lb	Ratio $\frac{P_u}{\phi P_n}$
T13	100 - 80	12.00	12.00	241.6	1.09	-22.75	4218.27	0.005 [1]
				K=1.00				✔
T14	80 - 60	13.00	13.00	247.2	1.56	-25.25	5765.99	0.004 [1]
				K=1.00				✔
T15	60 - 40	14.00	14.00	242.1	1.69	-27.44	6515.19	0.004 [1]
				K=1.00				✔
T16	40 - 20	15.00	15.00	245.2	1.81	-27.40	6799.32	0.004 [1]
				K=1.00				✔
T17	20 - 0	16.00	16.00	241.5	1.94	-26.59	7514.04	0.004 [1]
				K=1.00				✔

Tension Checks

Leg Design Data (Tension)

Section No.	Elevation ft	L ft	L_u ft	Kl/r	A in^2	P_u lb	ϕP_n lb	Ratio $\frac{P_u}{\phi P_n}$
T1	325 - 320	5.00	5.00	63.3	1.70	2879.07	76682.30	0.038 [1]
								✔
T2	320 - 300	20.00	5.00	63.3	1.70	28784.70	76682.30	0.375 [1]
								✔
T3	300 - 280	20.00	5.00	67.1	2.95	72883.60	132536.00	0.550 [1]
								✔
T4	280 - 260	20.03	5.01	52.9	3.02	99945.20	135717.00	0.736 [1]
								✔
T5	260 - 240	20.03	5.01	46.0	3.68	121699.00	165529.00	0.735 [1]
								✔
T6	240 - 220	20.03	6.68	54.3	4.41	141237.00	198335.00	0.712 [1]
								✔
T7	220 - 200	20.03	6.68	43.6	6.11	166260.00	274880.00	0.605 [1]
								✔

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Section No.	Elevation	L	L_u	Kl/r	A	P_u	ϕP_n	Ratio $\frac{P_u}{\phi P_n}$
	ft	ft	ft		in^2	lb	lb	
T8	200 - 180	20.03	6.68	35.7	5.58	193455.00	251161.00	0.770 [1] ✔
T9	180 - 160	20.03	10.02	54.8	8.40	217859.00	378222.00	0.576 [1] ✔
T10	160 - 140	20.03	10.02	40.9	8.40	244744.00	377967.00	0.648 [1] ✔
T11	140 - 120	20.03	10.02	40.9	8.40	272979.00	377967.00	0.722 [1] ✔
T12	120 - 100	20.03	10.02	40.9	8.40	301229.00	377967.00	0.797 [1] ✔
T13	100 - 80	20.03	5.01	20.5	8.40	319860.00	377967.00	0.846 [1] ✔
T14	80 - 60	20.03	5.01	16.4	11.91	349107.00	535873.00	0.651 [1] ✔
T15	60 - 40	20.03	5.01	16.4	11.91	378218.00	535873.00	0.706 [1] ✔
T16	40 - 20	20.03	5.01	16.4	11.91	408321.00	535873.00	0.762 [1] ✔
T17	20 - 0	20.03	5.01	13.7	14.58	438875.00	656053.00	0.669 [1] ✔

Diagonal Design Data (Tension)

Section No.	Elevation	L	L_u	Kl/r	A	P_u	ϕP_n	Ratio $\frac{P_u}{\phi P_n}$
	ft	ft	ft		in^2	lb	lb	
T1	325 - 320	6.20	3.10	69.3	0.36	3181.65	15675.30	0.203 [1] ✔
T2	320 - 300	6.20	3.10	69.3	0.36	4348.76	15675.30	0.277 [1] ✔
T3	300 - 280	6.20	3.10	69.3	0.36	5671.24	15675.30	0.362 [1] ✔
T4	280 - 260	6.34	3.32	74.2	0.36	3726.58	15675.30	0.238 [1] ✔
T5	260 - 240	8.65	4.46	99.6	0.36	3721.47	15675.30	0.237 [1] ✔
T6	240 - 220	11.55	5.95	115.8	0.43	4207.38	18739.00	0.225 [1] ✔
T7	220 - 200	13.20	6.77	104.4	0.57	6429.77	24839.90	0.259 [1] ✔
T8	200 - 180	14.87	7.60	117.3	0.55	6891.23	24075.20	0.286 [1] ✔
T9	180 - 160	18.07	9.31	120.1	0.92	8214.83	39843.30	0.206 [1] ✔
T10	160 - 140	19.65	10.09	132.6	1.01	9373.64	43758.30	0.214 [1] ✔
T11	140 - 120	21.42	10.97	120.8	1.10	10859.80	47999.50	0.226 [1] ✔

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Section No.	Elevation	L	L_u	Kl/r	A	P_u	ϕP_n	Ratio $\frac{P_u}{\phi P_n}$
	ft	ft	ft		in^2	lb	lb	
T12	120 - 100	23.23	11.87	132.6	1.19	11975.00	51914.50	0.231 [1] ✔
T13	100 - 80	16.01	15.55	200.6	0.94	16107.00	40862.80	0.394 [1] ✔
T14	80 - 60	16.80	15.85	176.2	1.03	16560.90	44777.80	0.370 [1] ✔
T15	60 - 40	17.62	16.68	161.6	1.22	17952.80	52934.10	0.339 [1] ✔
T16	40 - 20	18.45	17.46	169.5	1.19	18739.80	51914.50	0.361 [1] ✔
T17	20 - 0	19.30	18.22	176.7	1.19	19550.20	51914.50	0.377 [1] ✔

Horizontal Design Data (Tension)

Section No.	Elevation	L	L_u	Kl/r	A	P_u	ϕP_n	Ratio $\frac{P_u}{\phi P_n}$
	ft	ft	ft		in^2	lb	lb	
T13	100 - 80	24.00	11.64	153.0	1.03	11813.40	44777.80	0.264 [1] ✔
T14	80 - 60	26.00	12.35	140.2	1.22	13134.60	52934.10	0.248 [1] ✔
T15	60 - 40	28.00	13.35	131.1	1.62	14489.40	70653.50	0.205 [1] ✔
T16	40 - 20	30.00	14.32	166.1	1.76	15680.50	76403.70	0.205 [1] ✔
T17	20 - 0	32.00	15.24	176.6	1.76	16977.40	76403.70	0.222 [1] ✔

Top Girt Design Data (Tension)

Section No.	Elevation	L	L_u	Kl/r	A	P_u	ϕP_n	Ratio $\frac{P_u}{\phi P_n}$
	ft	ft	ft		in^2	lb	lb	
T1	325 - 320	5.00	4.76	122.7	0.95	714.24	41355.80	0.017 [1] ✔
T2	320 - 300	5.00	4.76	106.4	0.36	635.81	15675.30	0.041 [1] ✔
T3	300 - 280	5.00	4.76	106.4	0.36	339.26	15675.30	0.022 [1] ✔
T4	280 - 260	5.00	4.76	106.4	0.36	233.22	15675.30	0.015 [1] ✔

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Redundant Horizontal (1) Design Data (Tension)

Section No.	Elevation	L	L_u	Kl/r	A	P_u	ϕP_n	Ratio $\frac{P_u}{\phi P_n}$
	ft	ft	ft		in^2	lb	lb	
T13	100 - 80	6.00	5.64	72.8	1.44	6263.27	46656.00	0.134 [1] ✔
T14	80 - 60	6.50	6.05	78.1	1.44	6886.53	46656.00	0.148 [1] ✔
T15	60 - 40	7.00	6.55	86.1	2.11	7532.65	68364.00	0.110 [1] ✔
T16	40 - 20	7.50	7.05	92.7	2.11	8210.41	68364.00	0.120 [1] ✔
T17	20 - 0	8.00	7.47	98.2	2.11	8910.93	68364.00	0.130 [1] ✔

Redundant Diagonal (1) Design Data (Tension)

Section No.	Elevation	L	L_u	Kl/r	A	P_u	ϕP_n	Ratio $\frac{P_u}{\phi P_n}$
	ft	ft	ft		in^2	lb	lb	
T13	100 - 80	7.43	6.96	89.8	1.44	4049.04	46656.00	0.087 [1] ✔
T14	80 - 60	7.81	7.24	93.4	1.44	4303.58	46656.00	0.092 [1] ✔
T15	60 - 40	8.20	7.64	98.6	1.44	4576.44	46656.00	0.098 [1] ✔
T16	40 - 20	8.60	8.06	104.0	1.44	4871.63	46656.00	0.104 [1] ✔
T17	20 - 0	9.02	8.38	110.2	1.56	5182.73	50544.00	0.103 [1] ✔

Inner Bracing Design Data (Tension)

Section No.	Elevation	L	L_u	Kl/r	A	P_u	ϕP_n	Ratio $\frac{P_u}{\phi P_n}$
	ft	ft	ft		in^2	lb	lb	
T13	100 - 80	11.50	11.50	147.0	1.09	2.54	35316.00	0.000 [1] ✔
T14	80 - 60	12.50	12.50	164.3	1.56	3.26	50544.00	0.000 [1] ✔
T15	60 - 40	13.50	13.50	148.6	1.69	1.52	54756.00	0.000 [1] ✔
T16	40 - 20	14.50	14.50	161.9	1.81	0.07	58644.00	0.000 [1] ✔

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Section Capacity Table

Section No.	Elevation ft	Component Type	Critical Element	P lb	ϕP_{allow} lb	% Capacity	Pass Fail
T1	325 - 320	Leg	3	-8069.65	57192.30	14.1	Pass
T2	320 - 300	Leg	15	-32282.90	57192.30	56.4	Pass
T3	300 - 280	Leg	45	-77531.30	95329.90	81.3	Pass
T4	280 - 260	Leg	75	-105780.00	110613.00	95.6	Pass
T5	260 - 240	Leg	105	-129426.00	141805.00	91.3	Pass
T6	240 - 220	Leg	132	-151917.00	159914.00	95.0	Pass
T7	220 - 200	Leg	153	-180788.00	239211.00	75.6	Pass
T8	200 - 180	Leg	174	-211099.00	228830.00	92.3	Pass
T9	180 - 160	Leg	195	-238889.00	303748.00	78.6	Pass
T10	160 - 140	Leg	210	-270083.00	334421.00	80.8	Pass
T11	140 - 120	Leg	225	-303423.00	334421.00	90.7	Pass
T12	120 - 100	Leg	240	-337339.00	334421.00	100.9	Fail ✗
T13	100 - 80	Leg	255	-361159.00	366576.00	98.5	Pass
T14	80 - 60	Leg	306	-397098.00	525490.00	75.6	Pass
T15	60 - 40	Leg	355	-434356.00	525490.00	82.7	Pass
T16	40 - 20	Leg	406	-473437.00	525490.00	90.1	Pass
T17	20 - 0	Leg	457	-513832.00	647072.00	79.4	Pass
T1	325 - 320	Diagonal	11	3181.65	15675.30	20.3	Pass
T2	320 - 300	Diagonal	24	-4202.92	10848.60	54.7 (b) 38.7	Pass
T3	300 - 280	Diagonal	54	-5601.22	10848.60	74.8 (b) 51.6	Pass
T4	280 - 260	Diagonal	84	-3442.18	7696.82	97.6 (b) 44.7	Pass
T5	260 - 240	Diagonal	111	-3841.89	5274.61	64.1 (b) 72.8	Pass
T6	240 - 220	Diagonal	138	-4526.32	4911.55	92.2	Pass
T7	220 - 200	Diagonal	159	-6646.75	7562.30	87.9	Pass
T8	200 - 180	Diagonal	180	-7085.24	5995.62	118.2	Fail ✗
T9	180 - 160	Diagonal	199	-8371.74	9140.37	91.6	Pass
T10	160 - 140	Diagonal	214	-9629.97	9571.06	100.6	Fail ✗
T11	140 - 120	Diagonal	229	-11217.60	10607.30	105.8	Fail ✗
T12	120 - 100	Diagonal	244	-12430.40	10851.30	114.6	Fail ✗
T13	100 - 80	Diagonal	267	-16683.40	8080.38	206.5	Fail ✗
T14	80 - 60	Diagonal	318	-17475.30	15271.70	114.4	Fail ✗
T15	60 - 40	Diagonal	369	-19118.00	19923.00	96.0	Pass
T16	40 - 20	Diagonal	420	-20010.40	18717.30	106.9	Fail ✗
T17	20 - 0	Diagonal	471	-20688.30	17645.80	117.2	Fail ✗
T13	100 - 80	Horizontal	263	-12206.50	7191.31	169.7	Fail ✗
T14	80 - 60	Horizontal	314	-13313.60	12276.30	108.4	Fail ✗
T15	60 - 40	Horizontal	365	-14630.80	16194.50	90.3	Pass
T16	40 - 20	Horizontal	416	-15759.30	13842.00	113.9	Fail ✗
T17	20 - 0	Horizontal	467	-16992.60	12430.90	136.7	Fail ✗
T1	325 - 320	Top Girt	6	-995.30	19963.70	5.0	Pass
T2	320 - 300	Top Girt	18	-1044.85	5071.88	13.7 (b) 20.6	Pass
T3	300 - 280	Top Girt	48	-402.83	5071.88	7.9	Pass
T4	280 - 260	Top Girt	76	-644.78	5071.88	12.7	Pass
T13	100 - 80	Redund Horz 1 Bracing	272	-6263.27	23443.30	26.7	Pass
T14	80 - 60	Redund Horz 1 Bracing	319	-6886.53	21126.30	32.6	Pass
T15	60 - 40	Redund Horz 1 Bracing	360	-7532.65	26569.10	28.4	Pass
T16	40 - 20	Redund Horz 1	411	-8210.41	22935.10	35.8	Pass

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Section No.	Elevation ft	Component Type	Critical Element	P lb	ϕP_{allow} lb	% Capacity	Pass Fail
T17	20 - 0	Bracing Redund Horz 1 Bracing	462	-8910.93	20447.50	43.6	Pass
T13	100 - 80	Redund Diag 1 Bracing	269	-3977.83	15508.50	25.6	Pass
T14	80 - 60	Redund Diag 1 Bracing	320	-4240.62	14335.50	29.6	Pass
T15	60 - 40	Redund Diag 1 Bracing	361	-4520.34	12867.90	35.1	Pass
T16	40 - 20	Redund Diag 1 Bracing	429	-4821.23	11593.00	41.6	Pass
T17	20 - 0	Redund Diag 1 Bracing	480	-5137.19	13200.30	38.9	Pass
T13	100 - 80	Inner Bracing	278	-22.75	4218.27	1.1	Pass
T14	80 - 60	Inner Bracing	329	-25.22	5765.99	0.9	Pass
T15	60 - 40	Inner Bracing	380	-27.39	6515.19	1.0	Pass
T16	40 - 20	Inner Bracing	431	-27.30	6799.32	0.9	Pass
T17	20 - 0	Inner Bracing	482	-26.45	7514.04	0.9	Pass
						Summary	
					Leg (T12)	100.9	Fail ✗
					Diagonal (T13)	206.5	Fail ✗
					Horizontal (T13)	169.7	Fail ✗
					Top Girt (T2)	20.6	Pass
					Redund Horz 1 Bracing (T17)	43.6	Pass
					Redund Diag 1 Bracing (T16)	41.6	Pass
					Inner Bracing (T13)	1.1	Pass
					Bolt Checks	97.6	Pass
					RATING =	**206.5**	**Fail ✗**

Foundation Capacity Table

	Design Reaction (TIA-222-F)	Design Reaction *1.35 (TIA-222-G)	Tower Reaction (TIA-222-G)	% Loaded	Pass Fail
Down (kips)	96.1	130	84.0	64.7%	Pass
Shear (kips)	75.6	102	96.1	94.3%	Pass
Moment (kips-ft)	11244	15179	14459	95.3%	Pass

WOODBURY COUNTY BOARD OF SUPERVISORS AGENDA ITEM(S) REQUEST FORM #13

Date: 3-2-17 Weekly Agenda Date: 3-7-17

ELECTED OFFICIAL / DEPARTMENT HEAD / CITIZEN: Ed Gilliland & Supervisor Ung

WORDING FOR AGENDA ITEM:

Approval of Updated Job Descriptions for Board Office Positions

ACTION REQUIRED:

Approve Ordinance ☐ Approve Resolution ☐ Approve Motion ☑

Public Hearing ☐ Other: Informational ☐ Attachments ☑

EXECUTIVE SUMMARY:

Chairman Ung and Human Resources Director Gilliland have, over the past few weeks, endeavored to more clearly delineate the job duties of the board administrative coordinator and the executive secretary. Although both positions have and will continue to show a mutually beneficial emphasis with continual cross-training, the need for an update of job descriptions was agreed upon by all and requests for further clarity of primary roles was agreed upon by all. This was accomplished by separate interviews and follow-up discussions.

There is a job title change from Board Administrative Coordinator to Board Administrative Assistant. The new title conforms more closely to the duties performed and the function of the position.
We have also updated the duties in both job descriptions to more closely reflect the duties actually performed.

BACKGROUND:

Going back to 2014, the Board Administrative Coordinator had been an exempt position. We received a ruling from DOL that this position should be Non-Exempt based on the fact that the position does not supervise at least 2 people (other issues were also involved). A change from Exempt to Non-Exempt was made.

Some of the duties have changed since then even though the core duties have remained the same.

As the make up of the Board of Supervisors has changed some of the expectations of Board Office personnel has changed to reflect the duties and timeliness needed to accomplish new goals.

The position of Board Executive Secretary-Public Bidder had been a position that was part-time prior to last year when the change was made to a full-time position. The change to full-time was made with the goal (expectation) of catching up on the large backlog of Public Bidder work to enable the County to bring properties back onto the tax roles. There were also duties that the new full-time position picked up in addition to the Public Bidder work.

The need to update the job descriptions for both positions was evident as the duties performed were not adequately addressed in the old job descriptions and to delineate the assignment of some of the shared duties. Therefore, the primary functions for each position are different. The other position (as before) is capable of serving in a secondary role when needed or in the absence of the primary position, as laid out in the descriptions. Both have been reviewed by the employees occupying the positions as well the Board Chair. Both positions require communication to the Board Chair of tasks completed weekly, or as requested.

FINANCIAL IMPACT:

n/a

IF THERE IS A CONTRACT INVOLVED IN THE AGENDA ITEM, HAS THE CONTRACT BEEN SUBMITTED AT LEAST ONE WEEK PRIOR AND ANSWERED WITH A REVIEW BY THE COUNTY ATTORNEY'S OFFICE?

Yes ☐ **No** ☐

RECOMMENDATION:

Approve the job descriptions laying out primary responsibilities with more clarity. Examples of primary duties:

ADMINSTRATIVE ASSISTANT: Weekly agenda; budget workbook preparation with budget director; calendar updates; transmittal of confidential/legal materials; compiler of meeting minutes when asked by Board Chair or Human Resources; tax suspension updates; payroll; others as assigned

EXECUTIVE SECRETARY: Public bidder work; general secretarial & purchasing; claims submission; administration of intranet folders, website pages, and posting of committee minutes; mail; others as assigned

ACTION REQUIRED / PROPOSED MOTION:

Motion to accept job title change from Board Administrative Coordinator to Board Administrative Assistant, and to accept the updated job descriptions for Administrative Assistant and Executive Secretary/Public Bidder.

Approved by Board of Supervisors April 5, 2016.

WOODBURY COUNTY
POSITION DESCRIPTION

Name:	_____	**Department:**	**County Board Administration**
Title:	**County Board Administrative Assistant**	**FLSA Designation:**	**Non-Exempt/ Hourly**
Effective Date:	**March 2017**	**Reports to:**	**County Board of Supervisors**

Purpose:
Performs administrative work in support for Board Administration. Responsible and accountable for assisting the Board in matters relating to the overall management of County operations pursuant to Board of Supervisors responsibilities as established by Iowa Code. Works with Budget/Tax Analyst of the Board of Supervisors' Office in budgetary preparations and issues. Carries out directions of the Board of Supervisors in completing assignments and projects as defined. Prepares agendas, schedules appointments, and provides data to the Board of Supervisors as requested. Represents the Board of Supervisors on committees, projects, etc. as assigned. Works with the Chairman to establish overall office procedures and protocols for the Board Administrative Office. Performs various duties as assigned by the Board of Supervisors in the operations of County government. Under the direct authority of the County Board of Supervisors.

Essential Functions and Responsibilities:
The following duties are typical for this position. These are not to be construed as exclusive or all inclusive. Other duties may be required and assigned.

- Responsible for monitoring agenda items and ensuring accuracy and completeness of the agenda
- Receives, handles, and transmits confidential legal and personal information
- Responsible for timely and accurate completion and posting of the weekly agenda with emphasis on accuracy
- Responsible for posting meetings and for placing them on calendars and for posting minutes as requested on the County website
- Responsible for posting other events and ensuring they are communicated to Board members
- Responsible for accurate Department Head and other committee meeting notes and the appropriate distribution of those notes as assigned by the Board Chair or Human Resources Director
- Responsible for assembling the budget book and related documents in coordination with the Budget Director
- Responsible for accurate processing of payroll
- Assures information and data is provided to the Board regarding the subject matter to be discussed prior to all scheduled appointments, providing as much information as necessary to allow Board members the opportunity to study issues prior to making a determination. This may be done through the person scheduling the appointment and/or separate research.
- Accountable for the timely completion of a variety of administrative projects relating to the responsibilities of the Board of Supervisors, as assigned by the Chairman of the Board or Board members
- Acts as liaison in assisting and coordinating on behalf of the County Board with other County elected officials and department heads, other governmental agencies, and the taxpaying public in a manner designed to fairly represent and perpetuate the intent, goals and objectives of the Board of Supervisors
- Keeps current tabs on administrative trends and informs the Board of developments in related areas of administrative responsibility (i.e. open meeting laws etc.)
- Prepares reports, carries out special projects, and performs various other duties as assigned by the Board of Supervisors including sending out letters annually to people on tax suspension asking for updated finances, and verifying receipt of annual reports and filing them as necessary.
- Responsible for setting a professional tone and appearance in Board Office and in Board meetings
- Communication to the Board Chair of tasks completed weekly, or as requested
- In the absence of the Secretary-Public Bidder responsible for general receptionist and secretarial duties including Public Bidder functions
- Attendance is required

Non-Essential Functions and Responsibilities:

- Performs various other duties relating to scope of responsibility as assigned by County Board of Supervisors

Minimum Education and Experience Required to Performing the Essential Functions:

- A degree in Business/Public Administration or related field is required with a minimum of five years experience
- Ten (10) years experience in public administration may qualify for substitution of a degree depending upon areas of experience
- Budgetary experience required with background in accounting desirable
- Must be able to effectively communicate, both orally and in writing
- Possess strong organizational skills and have attention to detail
- Must be computer literate.
- Knowledge of general office procedures and equipment required
- Candidate for hire must successfully pass a background check, a physical examination, and drug screening test prior to employment

Mental and Physical Competencies Required to Performing Essential Functions:

Language Ability

Ability to read and interpret documents such as safety rules, operating, and maintenance instructions, and procedure manuals and/or Iowa or County systems. Ability to write routine reports and correspondence. Ability to speak effectively before groups of customers or employees of the County in clearly spoken English. Ability to communicate Woodbury County policies to managerial and non-managerial groups in person and in writing. Ability to read and understand legal descriptions, policies, and procedures. Able by voice communications to express or exchange ideas by means of the spoken word in clearly spoken English

Mathematical Skills

Ability to add, subtract, multiply, and divide in all units of measure, using whole numbers, common fractions, and decimals. Ability to compute rate, ratio, and percent and to draw or interpret graphs. Knowledge of basic bookkeeping principles. Knowledge of legislative requirements related to County systems. Knowledge of County principles and procedures.

Behavior Skills

Ability to begin work at the starting time without tardiness, absenteeism, or leaving work early without authorization or for good reason. Conduct or appearance in good keeping with a professional image and/or position of the County. Ability to read and understand the Work Rules of the County such as Bullying will not be tolerated, theft and dishonesty will not be tolerated, and disobedience, insubordination, or refusal to comply with reasonable instructions of authorized supervision will not be tolerated. Ability to cope with numerous time sensitive requests from County offices. Attendance is required.

Reasoning Ability

Ability to apply common sense understanding to carry out simple one or two stage instructions. Ability to deal with standardized situations with only occasional or no variables. Ability to apply common sense understanding to carry out detailed but uninvolved written or oral instructions. Ability to deal with problems involving a few concrete variables in standardizes situations. Ability to apply common sense understanding to carry out instructions furnished in written, oral, or diagram form.

Cognitive Demands

Ability to apply common sense understanding to carry out instructions furnished in written, oral, or diagram form. Ability to deal with problems involving several concrete variables in standardized situations. Ability to set priorities regarding assignments and follow through to completion; ability to establish and maintain effective working relationships with associates and the general public by means of clearly spoken English.

Equipment Used

Computer, typewriter, printers, calculator (10 key), copier, mail process machine, possess knowledge of anything relating to County systems. Work requiring ability to lift up to 25-40 or less pounds

Physical Demands

Typical office environment involving sitting, walking, occasional bending, lifting, and carrying paper and related light objects generally weighing 25-40 pounds or less and negligible amount of force frequently or constantly to move objects. Horizontal and vertical reaching motion is required. Aptitudes required are those typically associated with clerical operations including clerical, numerical, and forms perceptions, clarity of vision 20” or less to view computer screens and for preparing and analyzing written data and to determining the accuracy and thoroughness of work and observing general surrounds and activities, legal documents, and property descriptions cards; eye/hand/foot coordination, hand and finger dexterity, motor coordination, grasping and repetitive motions, hearing to perceive information at normal spoken word levels and conversation skills for expressing or exchanging ideas by means of the spoken word in clearly spoken English. Attendance required

Environmental Adaptability

Work is performed in all environments and has exposure to all environmental issues. The employee is not subject to adverse environmental conditions.

Special Requirements

Reasonable accommodations may be made to enable individuals with disabilities to perform the essential tasks. Possession of an appropriate driver’s license valid in the state of Iowa. Candidate for hire must successfully pass a background check, a physical examination, and drug screening test prior to employment. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential tasks.

I have carefully read and understand the contents of this job description. I understand the responsibilities, requirements, and duties expected of me. I understand that this is not necessarily an exhaustive list of responsibilities, skills, duties, requirements, efforts or working conditions associated with the job. While this list is intended to be an accurate reflection of the current job, the Employer reserves the right to revise the performed as directed by the Employer. I understand that I may be required to work overtime, different shifts or hours outside the normally defined workday or workweek. I also understand that this job description does not constitute a contract of employment nor alter my status as an at-will employee. I have the right to terminate my employment at any time and for any reason, and the Employer has a similar right.

_____ _____

Employee's Signature Date

_____ _____

Department Head Date

Woodbury County is an Equal Opportunity Employer. In compliance with the Americans with Disabilities Act, the County will consider reasonable accommodations for qualified individuals with disabilities and encourages prospective employees and incumbents to discuss potential accommodations with the Employer.

Federal and state laws prohibit employment and/or public accommodation discrimination on the basis of age, color, creed, disability, gender identity, national origin, pregnancy, race, religion, sex, sexual orientation or veteran's status. If you believe you have been discriminated against, please contact the Iowa Civil Rights Commission at 800-457-4416 or Iowa Department of Transportation's civil rights coordinator. If you need accommodations because of a disability to access the Iowa Department of Transportation's services, contact the agency's affirmative action officer at 800-262-0003.

WOODBURY COUNTY
POSITION DESCRIPTION

Name: _____ **Department:** **County Board Administration**
Title: **County Board Executive Secretary-Public Bidder** **FLSA Designation:** **Non-Exempt/ Hourly**
Effective Date: **March 2017** **Reports to:** **County Board of Supervisors**

Purpose:
Responsible for the efficient, accurate and timely performance of a variety of clerical, receptionist and secretarial duties for all designated supervisory personnel, and administration of the County's Public Bidder program. This position is under the direct authority of the County Board of Supervisors

Essential Functions and Responsibilities:
The following duties are typical for this position. These are not to be construed as exclusive or all inclusive. Other duties may be required and assigned.

- Primarily performs general receptionist and secretarial duties for the Board of Supervisors' Office
- Composes correspondence, legal documents, and other information as required
- Files and maintains on a current basis, all designated records in a manner designed to develop the best possible information access and control
- Maintains and orders office supplies as needed
- Reviews bills and statements, and signs submittals of claims to the Auditor's office
- Handles confidential information which includes collective bargaining and legal matters
- Responsible for the administration of the Board of Supervisor's shared intranet online folder
- Responsible for processing payroll in the absence of the Administrative Assistant
- Answers telephone in a professional manner, and directs parties to appropriate sources for proper handling of inquiries
- Processes incoming and outgoing mail
- Records constituents' complaints and requests
- Primarily responsible for administering the Public Bidder program
- Responsible for maintaining and updating the Board of Supervisor's page of the County website, the timely posting of minutes and other documentation to the Committee Information portion of the website, the timely posting of Public Bidder information to the county website, and administrates other pages as directed by supervision
- Maintains knowledge of Iowa Code relating to public bidder law
- Processes Certificate of Purchase at Tax Sale (a/k/a tax certificates) to accomplish the necessary requirements of the Iowa Code in order to obtain a Treasurer's Tax Deed
- Arranges tax sale auctions in order to sell property obtained by Treasurer Tax Deed and place it back on tax rolls
- Maintains records of property deeded to Woodbury County listing delinquent taxes and interest in order to assist in setting minimum bid on property to be sold at auction
- Arranges agreements or contracts for mowing of weeds and other problems affecting County owned properties
- In the absence of the Administrative Assistant, responsible for the accurate, timely, and complete compilation of the weekly agenda and other agendas or backup materials as required by supervisors
- Responsible for setting a professional tone in Board Office and in Board meetings at all times
- Communication to the Board Chair of tasks completed for the week, or as requested
- Attendance is required

Non-Essential Functions and Responsibilities:

- Performs various other duties relating to scope of responsibility as assigned by County Board of Supervisors

Minimum Education and Experience Required Performing the Essential Functions:

- Knowledge of general office equipment and procedures
- Mathematical ability
- Ability to type/keyboard accurately with a minimum net score of 40 wpm
- Accurate proofreading and computer skills
- Ability to organize and to concentrate on detail
- Ability to set priorities regarding assignments/duties and follow through to completion
- Ability to communicate tactfully and courteously with others; personal maturity to safeguard confidential information
- Candidate for hire must successfully pass a background check, a physical examination, and drug screening test prior to employment

Mental and Physical Competencies Required Performing Essential Functions:

Language Ability

Ability to read and interpret documents such as safety rules, operating, and maintenance instructions, and procedure manuals and/or Iowa or County systems. Ability to write routine reports and correspondence. Ability to speak effectively before groups of customers or employees of the County in clearly spoken English. Ability to communicate Woodbury County policies to managerial and non-managerial groups in person and in writing. Ability to read and understand legal descriptions, policies, and procedures. Able by voice communications to express or exchange ideas by means of the spoken word in clearly spoken English

Mathematical Skills

Ability to add, subtracts, multiply, and divides in all units of measure, using whole numbers, common fractions, and decimals. Ability to compute rate, ratio, and percent and to draw or interpret graphs. Knowledge of basic bookkeeping principles. Knowledge of legislative requirements related to County systems. Knowledge of County principles and procedures.

Behavior Skills

Ability to begin work at the starting time without tardiness, absenteeism, or leaving work early without authorization or for good reason. Conduct or appearance in good keeping with a professional image and/or position of the County. Ability to read and understand the Work Rules of the County such as Bullying will not be tolerated, theft and dishonesty will not be tolerated, and disobedience, insubordination, or refusal to comply with reasonable instructions of authorized supervision will not be tolerated. Ability to cope with numerous time sensitive requests from County offices. Attendance is required.

Reasoning Ability

Ability to apply common sense understanding to carry out simple one or two stage instructions. Ability to deal with standardized situations with only occasional or no variables. Ability to apply common sense understanding to carry out detailed but uninvolved written or oral instructions. Ability to deal with problems involving a few concrete variables in standardizes situations. Ability to apply common sense understanding to carry out instructions furnished in written, oral, or diagram form.

Cognitive Demands

Ability to apply common sense understanding to carry out instructions furnished in written, oral, or diagram form. Ability to deal with problems involving several concrete variables in standardized situations. Ability to set priorities regarding assignments and follows through to completion; ability to establish and maintain effective working relationships with associates and the general public by means of clearly spoken English.

Equipment Used

Computer, typewriter, printers, calculator (10 key), copier, mail process machine, possess knowledge of general office equipment and procedures, including ability to type rapidly and accurately with at least 40 words per minute (net score), accurate proofreading

Physical Demands

Typical office environment involving sitting, walking, occasional bending, lifting, and carrying paper and related light objects generally weighing 25-40 pounds or less and negligible amount of force frequently or constantly to move objects. Horizontal and vertical reaching motion is required. Aptitudes required are those typically associated with clerical operations including clerical, numerical, and forms perceptions, clarity of vision 20" or less to view computer screens and for preparing and analyzing written data and to determining the accuracy and thoroughness of work and observing general surrounds and activities, legal documents, and property descriptions cards; eye/hand/foot coordination, hand and finger dexterity, motor coordination, grasping and repetitive motions, hearing to perceive information at normal spoken word levels and conversation skills for expressing or exchanging ideas by means of the spoken word in clearly spoken English. Attendance required

Environmental Adaptability

Work is performed in all environments and has exposure to all environmental issues. The employee is not subject to adverse environmental conditions.

Special Requirements

Reasonable accommodations may be made to enable individuals with disabilities to perform the essential tasks. Possession of an appropriate valid driver's license and insurance. Candidate for hire must successfully pass a background check, a physical examination, vision, back screen and drug screen prior to employment. The use of clearly spoken English for the skills and purposes of this job. Attendance is required.

Keyboarding skill test from Iowa Workforce Development with a 40 WPM (net score), within the last 12 months

I have carefully read and understand the contents of this job description. I understand the responsibilities, requirements, and duties expected of me. I understand that this is not necessarily an exhaustive list of responsibilities, skills, duties, requirements, efforts or working conditions associated with the job. While this list is intended to be an accurate reflection of the current job, the Employer reserves the right to revise the performed as directed by the Employer. I understand that I may be required to work overtime, different shifts or hours outside the normally defined workday or workweek. I understand my attendance is required. I also understand that this job description does not constitute a contract of employment nor alter my status as an at-will employee. I have the right to terminate my employment at any time and for any reason, and the Employer has a similar right.

_____ _____

Employee's Signature Date

_____ _____

Department Head Date

Woodbury County is an Equal Opportunity Employer. In compliance with the Americans with Disabilities Act, the County will consider reasonable accommodations for qualified individuals with disabilities and encourages prospective employees and incumbents to discuss potential accommodations with the Employer.

Federal and state laws prohibit employment and/or public accommodation discrimination on the basis of age, color, creed, disability, gender identity, national origin, pregnancy, race, religion, sex, sexual orientation or veteran's status. If you believe you have been discriminated against, please contact the Iowa Civil Rights Commission at 800-457-4416 or Iowa Department of Transportation's civil rights coordinator. If you need accommodations because of a disability to access the Iowa Department of Transportation's services, contact the agency's affirmative action officer at 800-262-0003.

WOODBURY COUNTY BOARD OF SUPERVISORS AGENDA ITEM(S) REQUEST FORM #14

Date: 03/02/2017 Weekly Agenda Date: 03/07/2017

ELECTED OFFICIAL / DEPARTMENT HEAD / CITIZEN: Ed Gilliland

WORDING FOR AGENDA ITEM:

Approval of the dates and financial impact of the 2017 Annual Fall Safety Day and Health/Wellness Fair.

ACTION REQUIRED:

Approve Ordinance ☐ Approve Resolution ☐ Approve Motion ☑

Public Hearing ☐ Other: Informational ☐ Attachments ☐

EXECUTIVE SUMMARY:

Woodbury County provides annual Safety/Harassment training to Secondary Roads and Conservation. It will be held on November 2, 2017. Also a Health/Wellness Fair for all employees, October 25, 2017.

BACKGROUND:

These annual events have been approved in the past for the benefit of the employees and further County goals.

FINANCIAL IMPACT:

Breakfast and lunch provided for the Safety training will be approximately $860. The Health/Wellness Fair financial impact will be lunch provided at an approximate cost of $1,125. The same as last year.

IF THERE IS A CONTRACT INVOLVED IN THE AGENDA ITEM, HAS THE CONTRACT BEEN SUBMITTED AT LEAST ONE WEEK PRIOR AND ANSWERED WITH A REVIEW BY THE COUNTY ATTORNEY'S OFFICE?

Yes ☐ **No** ☑

RECOMMENDATION:

ACTION REQUIRED / PROPOSED MOTION:

Motion to approve the Annual Fall Safety and Health/Wellness Fair dates and financial impact.

Approved by Board of Supervisors April 5, 2016.

WOODBURY COUNTY BOARD OF SUPERVISORS AGENDA ITEM(S) REQUEST FORM #15

Date: 3/2/2017 Weekly Agenda Date: 3/7/2017

ELECTED OFFICIAL / DEPARTMENT HEAD / CITIZEN: Supervisors M. Ung & J. Taylor

WORDING FOR AGENDA ITEM:

The Active Management Role of County Supervisors

ACTION REQUIRED:

Approve Ordinance ☐ Approve Resolution ☐ Approve Motion ☑

Public Hearing ☐ Other: Informational ☐ Attachments ☑

EXECUTIVE SUMMARY:

We believe the last few months have demonstrated a learning experience about the more active role of county government in managerial responsibility, especially for the new board members. Certainly, when compared to municipal governments, county government leadership must be more "hands on" to avoid departments inadvertently going on their own without direction. In answering the question "whose job is it to evaluate/guide," we believe that is evident in our titles of "supervisors." It is up to us to be up in the office(s) of those we are liaisons to. A "best practice" for a substantive sit-down conversation is certainly once every week or two, in order to receive/offer the following:

1) an informal but comprehensive "progress/upcoming challenges report" written or verbalized by the dept. heads to the liaisons
2) ongoing discussion guided by the liaison(s) with notes from said report in-hand, with coordination in submitting agenda items

This is simply a suggestion, and hopefully it prompts constructive discussion among this board as we endeavor to provide quality oversight to our employees on behalf of the taxpayers. Best practices would include a face-to-face follow up when informed of a need whenever possible. We have found it is most helpful in generating a full discussion to both ensure the affected department heads are in the room to provide any background requested, and to ask for or provide a report attached to an agenda item.

BACKGROUND:

Up to the Chair is day-to-day operations, but liaison work to help support and guide is critical and has shown fruit in the recent past. We as board members have reversed the course of 9,273 late punches 45 minutes or later; revived the evaluation process; enacted and discovered two instances of secondary employment; developed several action plans; used an evaluation of goals for department heads; and invested in a True Speak communication tool to positively coach and counsel with added accountability/documentation etc. All of this was aimed at increased accountability.

We encourage each other to ask for regular reports from those they supervise as they see fit, and to retain that documentation for what is anticipated to be a more substantive evaluation process culminating at the end of this calendar year.

Two years ago, the county also brought together our department heads & elected officials as part of a long-term visioning/team-building session at the Dorothy Pecaut Nature Center conference room, and that produced worksheets from each department regarding action plans for identified improvements. These would be instrumental for the new board members to request and/or for our department heads to pro-actively provide.

FINANCIAL IMPACT:

n/a

IF THERE IS A CONTRACT INVOLVED IN THE AGENDA ITEM, HAS THE CONTRACT BEEN SUBMITTED AT LEAST ONE WEEK PRIOR AND ANSWERED WITH A REVIEW BY THE COUNTY ATTORNEY'S OFFICE?

Yes ☐ **No** ☑

RECOMMENDATION:

see above

ACTION REQUIRED / PROPOSED MOTION:

n/a

Approved by Board of Supervisors April 5, 2016.

WOODBURY COUNTY BOARD OF SUPERVISORS AGENDA ITEM(S) REQUEST FORM #16a

Date: 3/2/2017 Weekly Agenda Date: 3/7/2017

ELECTED OFFICIAL / DEPARTMENT HEAD / CITIZEN: Mark J. Nahra, County Engineer

WORDING FOR AGENDA ITEM:

Consider approval of completion certificate for the 2016 pavement marking project various county paved roads.

ACTION REQUIRED:

Approve Ordinance ☐ Approve Resolution ☐ Approve Motion ☑

Public Hearing ☐ Other: Informational ☐ Attachments ☑

EXECUTIVE SUMMARY:

The county has let a contract on 7/21/2016 to apply pavement markings to county paved roads throughout the county road system.

BACKGROUND:

The project applied pavement markings including centerline and edgelines to approximately 1/3 of the county paved road system. Stop bars at intersections were also painted. A portion of the county road system receives new pavement markings every year.

FINANCIAL IMPACT:

This project was funded by local secondary road funds.

IF THERE IS A CONTRACT INVOLVED IN THE AGENDA ITEM, HAS THE CONTRACT BEEN SUBMITTED AT LEAST ONE WEEK PRIOR AND ANSWERED WITH A REVIEW BY THE COUNTY ATTORNEY'S OFFICE?

Yes ☐ **No** ☑

RECOMMENDATION:

I recommend the Board approve, accept and certify the completed project.

ACTION REQUIRED / PROPOSED MOTION:

Motion to approve the certificate of completion for project 2016 Pavement Markings with Vogel Traffic of Orange City, Iowa for $50,302.00.

Approved by Board of Supervisors April 5, 2016.

CERTIFICATION AS TO COMPLETION OF WORK
AND FINAL ACCEPTANCE BY THE BOARD OF SUPERVISORS
WOODBURY COUNTY, IOWA

PROJECT NO.

Pavement marking 2016

This is certify that work covered by contract entered into with

Vogel Traffic

of Orange City, Iowa under the date of July 21, 2016

Pavement marking on various roads in Woodbury County

Contract Amount: **$50,302.00**

in Woodbury County was completed in accordance with the plans and specifications therefore, and in a satisfactory manner on **November 01, 2016**

March 07, 2017 By _____
Date County Engineer

Approved: Board of Supervisors
Woodbury County, Iowa

March 07, 2017 By _____
Date Chairperson

WOODBURY COUNTY BOARD OF SUPERVISORS AGENDA ITEM(S) REQUEST FORM #16b

Date: 3/2/2017 Weekly Agenda Date: 3/7/2017

ELECTED OFFICIAL / DEPARTMENT HEAD / CITIZEN: Mark J. Nahra, County Engineer

WORDING FOR AGENDA ITEM:

Consider approval of completion certificate for the GH-2017 Gravel Stockpile project.

ACTION REQUIRED:

Approve Ordinance ☐ Approve Resolution ☐ Approve Motion ☑

Public Hearing ☐ Other: Informational ☐ Attachments ☑

EXECUTIVE SUMMARY:

The county has let a contract on October 25, 2016 to supply gravel to county stockpiles throughout the county road system.

BACKGROUND:

The project provided gravel supplies to county stockpiles throughout the county for use on county gravel roads in FY 2017.

FINANCIAL IMPACT:

This project was funded by local secondary road funds.

IF THERE IS A CONTRACT INVOLVED IN THE AGENDA ITEM, HAS THE CONTRACT BEEN SUBMITTED AT LEAST ONE WEEK PRIOR AND ANSWERED WITH A REVIEW BY THE COUNTY ATTORNEY'S OFFICE?

Yes ☐ **No** ☑

RECOMMENDATION:

I recommend the Board approve, accept and certify the completed project.

ACTION REQUIRED / PROPOSED MOTION:

Motion to approve the certificate of completion for project GH-2017 Stockpile with Hallett Materials of Wall Lake, Iowa for $962,700.00.

Approved by Board of Supervisors April 5, 2016.

CERTIFICATION AS TO COMPLETION OF WORK
AND FINAL ACCEPTANCE BY THE BOARD OF SUPERVISORS
WOODBURY COUNTY, IOWA

PROJECT NO. GH-2017-Stockpile

This is certify that work covered by contract entered into with

Hallett Materials

Of Wall Lake, Iowa under the date of October 25, 2016

Maintenance Gravel at various locations in Woodbury County

Contract Amount: **$962,700.00**

in Woodbury County was completed in accordance with the plans and specifications therefore, and in a satisfactory manner on **January 06, 2017**

March 07, 2017 By_____
Date County Engineer

Approved: Board of Supervisors
Woodbury County, Iowa

March 07, 2017 By_____
Date Chairperson

WOODBURY COUNTY BOARD OF SUPERVISORS AGENDA ITEM(S) REQUEST FORM #16c

Date: 3/2/2017 Weekly Agenda Date: 3/7/2017

ELECTED OFFICIAL / DEPARTMENT HEAD / CITIZEN: Mark J. Nahra, County Engineer

WORDING FOR AGENDA ITEM:

Consider approval of completion certificate for project number L-B(W153)--73-97, Replacement of Structure W153 on Morgan Trail.

ACTION REQUIRED:

Approve Ordinance ☐ Approve Resolution ☐ Approve Motion ☑

Public Hearing ☐ Other: Informational ☐ Attachments ☑

EXECUTIVE SUMMARY:

The county has let a contract on 2/16/2016 to replace structure number W153 on Morgan Trail east of Oto. The former structure was destroyed in flooding on 6/15/2014.

BACKGROUND:

The project replaced the existing bridge that was destroyed in the June 15, 2014 flood event. The project replaced an existing 78' x 17' two span steel superstructure bridge that failed during the flood. The project was programmed with special project levy ($1.3 million special levy) funds. Some of those funds will be reimbursed by FEMA.

FINANCIAL IMPACT:

This project was funded by the special project $1.3 million levy and was programmed for FY 2017. The project completion has been filed with FEMA for reimbursement by FEMA and Iowa Homeland Security and Emergency Management Division funds. We are expecting 85% of the final costs to be eligible for reimbursement.

IF THERE IS A CONTRACT INVOLVED IN THE AGENDA ITEM, HAS THE CONTRACT BEEN SUBMITTED AT LEAST ONE WEEK PRIOR AND ANSWERED WITH A REVIEW BY THE COUNTY ATTORNEY'S OFFICE?

Yes ☐ **No** ☑

RECOMMENDATION:

I recommend the Board approve, accept and certify the completed project.

ACTION REQUIRED / PROPOSED MOTION:

Motion to approve the certificate of completion for project L-B(W153)--73-97 with Dixon Construction of Correctionville, Iowa for $483,766.00.

Approved by Board of Supervisors April 5, 2016.

CERTIFICATION AS TO COMPLETION OF WORK
AND FINAL ACCEPTANCE BY THE BOARD OF SUPERVISORS
WOODBURY COUNTY, IOWA

PROJECT NO.

L-B(W153))—73-97

This is certify that work covered by contract entered into with

Dixon Construction

of Correctionville, Iowa under the date of February 16, 2016

Bridge Replacement – Bridge Located on Morgan Trail Section 5-87-43

Contract Amount: **$483,766.00**

in Woodbury County was completed in accordance with the plans and specifications therefore, and in a satisfactory manner on **October 21, 2016**

March 07, 2017 By_____
Date County Engineer

Approved: Board of Supervisors
Woodbury County, Iowa

March 07, 2017 By_____
Date Chairperson

WOODBURY COUNTY BOARD OF SUPERVISORS AGENDA ITEM(S) REQUEST FORM

#16d

Date: 3/2/2017 Weekly Agenda Date: 3/7/2017

ELECTED OFFICIAL / DEPARTMENT HEAD / CITIZEN: Mark J. Nahra, County Engineer

WORDING FOR AGENDA ITEM:

Consider approval of contract for bridge inspection contract for 2017

ACTION REQUIRED:

Approve Ordinance ☐ Approve Resolution ☐ Approve Motion ☑

Public Hearing ☐ Other: Informational ☐ Attachments ☑

EXECUTIVE SUMMARY:

A contract with Calhoun Burns and Associates is being presented to the Board for inspection of 136 structures requiring inspection in calendar year 2017.

BACKGROUND:

Counties are required by state and federal law to conduct bridge inspections on all bridges over 20' in length in compliance with National Bridge Inspection Standards (NBIS). Woodbury County Secondary Road Department has utilized consulting staff to perform these inspections on county bridges. Calhoun Burns and Associates is recommended for continuation of required bridge inspections for 2017.

FINANCIAL IMPACT:

Bridge inspections are paid from the local secondary road fund out of our administration-engineering budget line items.

IF THERE IS A CONTRACT INVOLVED IN THE AGENDA ITEM, HAS THE CONTRACT BEEN SUBMITTED AT LEAST ONE WEEK PRIOR AND ANSWERED WITH A REVIEW BY THE COUNTY ATTORNEY'S OFFICE?

Yes ☐ **No** ☑

RECOMMENDATION:

I recommend that the Board approve the contract with Calhoun Burns and Associates for bridge inspection for calendar year 2017.

ACTION REQUIRED / PROPOSED MOTION:

Motion to approve the contract with Calhoun Burns and Associates for bridge inspection for calendar year 2017.

Approved by Board of Supervisors April 5, 2016.

CALHOUN-BURNS AND ASSOCIATES, INC.
BRIDGES ◆ STRUCTURES ◆ TRANSPORTATION

February 14, 2017

Mark J. Nahra, P.E.
Woodbury County Engineer
759 E. Frontage Road
Moville, IA 51039-8199

RE: WOODBURY COUNTY BRIDGE INSPECTION AND RATING PROGRAM – 2017

Dear Mr. Nahra:

This proposal for bridge inspection and rating services for your 2017 Program is submitted in accordance with your request for professional structural engineering services. You have asked us to reinspect and rate approximately 136 structures in 2017 from the attached list for the Standard Rating and HS-20 or HL-93 Design Trucks. Posting recommendations will be provided for gross weight allowed and maximum axle weight allowed. We will complete Program Manager and Team Leader assignments, provide master lists, cost estimating and summary listing per the Iowa DOT and FHWA guidelines and requirements.

We propose to reinspect these 136 structures in 2017 for a fee of $166.20 per bridge. We will perform any required load rating computations including the new 'SHV' trucks, update scour evaluations and complete the fracture critical inspections to justify deficiencies, changes, replacements, repairs, funding, etc., at the following estimated rates:

- Load Rating Computations: $110.00 Each
- Updated Level A or B Scour Evaluations: $ 90.00 Each

In addition to the above, we will provide assistance with the implementation of the SIIMS database at our hourly rates. Any special equipment costs will be charged to the County as a direct expense as we have done in the past.

Please review this proposal and, if it is acceptable, return one signed and dated copy to us. We will do another good job for you and Woodbury County.

Sincerely,

Milton C. Clemenson

Milton C. Clemenson, P.E.
Vice President

ACCEPTED FOR WOODBURY COUNTY:

_____
Board of Supervisors, Chair

RECOMMENDED FOR APPROVAL:

_____
Mark J. Nahra, P.E.
Woodbury County Engineer

Date: _____

1500 30th Street ◆ West Des Moines, IA 50266
WATS 877/241-8003 ◆ Phone 515/224-4344 ◆ FAX 515-224-1385 ◆ email: email@calhounburns.com

WOODBURY COUNTY BOARD OF SUPERVISORS AGENDA ITEM(S) REQUEST FORM #16e

Date: 3/2/2017 Weekly Agenda Date: 3/7/2017

ELECTED OFFICIAL / DEPARTMENT HEAD / CITIZEN: Mark J. Nahra, County Engineer

WORDING FOR AGENDA ITEM:

Consider approval of contract for project number L-M208--73-97, Replacement of Structure M208 on Pocahontas Avenue

ACTION REQUIRED:

Approve Ordinance ☐ Approve Resolution ☐ Approve Motion ☑

Public Hearing ☐ Other: Informational ☐ Attachments ☑

EXECUTIVE SUMMARY:

The county has let a contract on 1/25/2017 to replace structure number M208 on Pocahontas Avenue North of Danbury. The structure is scheduled for replacement this fiscal year.

BACKGROUND:

The project will replace the existing greenwood structure and flume with a new box culvert and drop inlet. The current structure is load restricted due to deterioration of the support piling and superstructure. Bids were awarded on 1/31/2017. Signed contracts have been returned by the contractor.

FINANCIAL IMPACT:

This project is funded by the local secondary road fund. The project was added to the program after the legislature raised the fuel tax in 2015. This project funding was made possible by the Woodbury County share of the $0.10 per gallon fuel tax.

IF THERE IS A CONTRACT INVOLVED IN THE AGENDA ITEM, HAS THE CONTRACT BEEN SUBMITTED AT LEAST ONE WEEK PRIOR AND ANSWERED WITH A REVIEW BY THE COUNTY ATTORNEY'S OFFICE?

Yes ☐ **No** ☑

RECOMMENDATION:

I recommend the Board approve and sign the contract and bond.

ACTION REQUIRED / PROPOSED MOTION:

Motion to approve the contract and bond for project L-M208--73-97 with Midwest Contracting of Marshall, MN for $127,366.

Approved by Board of Supervisors April 5, 2016.

WOODBURY COUNTY, IOWA
CONTRACT

Kind of Work RCB Culvert – New
Project No. L-M208--73-97 County Woodbury

THIS AGREEMENT made and entered by and between Woodbury County, Iowa, by its Board of Supervisors consisting of the following members: Matthew Ung, Jeremy Taylor, Marty Pottebaum, Keith Radig, and Rocky DeWitt, Contracting Authority, and Midwest Contracting Marshall Minnesota , Contractor.

WITNESSETH: That the Contractor, for and in consideration of ----------

On Hundred Twenty-Seven Thousand Three Hundred Sixty-six and 00/100 ($127,366.00)

payable as set forth in the specifications constituting a part of this contract, hereby agrees to construct in accordance with the plans and specifications therefore, and in the locations designated in the notice to bidders, the various items of work as follows:

Item No.	Item	Quantity	Unit Price	Amount
	Project: L-M208—73-97 Group 1			
1.	Clearing and Grubbing	0.12 Acres	$5,000.00	$ 600.00
2.	Special Backfill	60.00 C.Y.	60.00	3,600.00
3.	Excavation Class 10 Roadway & Borrow	451.00 C.Y.	4.00	1,804.00
4.	Removal of Existing Bridge	1 L.S.	3,500.00	3,500.00
5.	Excavation Class 20	827.00 C.Y.	6.00	4,962.00
6.	Excavate and Dewater	1 L.S.	2,500.00	2,500.00
7.	Precast Concrete Box Culvert, 12 ft X 10 ft	44 LF.	1,100.00	48,400.00
8.	Precast Concrete Box Culvert Straight End Section, 12 ft X 10 ft	1 Each	22,000.00	22,000.00
9.	Temporary Stream Diversion	1 Each	2,500.00	2,500.00
10.	Safety Closure	2 Each	100.00	200.00
11.	Traffic Control	1 L.S.	1,800.00	1,800.00
12.	Mobilization	1 L.S.	6,500.00	6,500.00
13.	Precast Concrete Box Culvert Drop Intake, 12 ft X 10 ft	1 Each	29,000.00	29,000.00

TOTAL BID **$127,366.00**

Said specifications and plans are hereby made part of and the basis of this agreement and a true copy of said plans and specifications are now on file in the office of the County Engineer under the date of December 19, 2016

That in consideration of the foregoing, the Contracting Authority hereby agrees to pay the Contractor, promptly and according to the requirements of the specifications the amounts set forth, subject to the conditions as set forth in the specifications.

That it is mutually understood and agreed by the parties hereto that the notice to bidders, the proposal, the specifications for Project No. L-M208—73-97 in Woodbury County, Iowa, the within contract, the contractor's bond, and the general and detailed plans are and constitute the basis of contract between the parties hereto.

That it is further understood and agreed by the parties of this contract that the above work shall be commenced and completed on or before:

Approximate Starting Date	Specified Starting Date	Late Start Date	Number of Working Days
		June 05, 2017	35

That time is the essence of this contract and that said contract contains all of the terms and conditions agreed upon by the parties hereto.

It is further understood that the Contractor consents to the jurisdiction of the courts of Iowa to hear, determine, and render judgment as to any controversy arising hereunder.

IN WITNESS WHEREOF the parties hereto have set their hands for the purposes herein expressed to this and three other instruments of like tenor, as the _____ day of _____, 20_____

Approved:

By Kim Boe
Contractor: Midwest Contracting
Kim Boe - Secretary/Treasurer
Date 2/16/17

By _____
Contracting Authority: Woodbury County Board Matthew Ung
Date _____

WOODBURY COUNTY BOARD OF SUPERVISORS AGENDA ITEM(S) REQUEST FORM #16f

Date: 3/2/2017 Weekly Agenda Date: 3/7/2017

ELECTED OFFICIAL / DEPARTMENT HEAD / CITIZEN: Mark J. Nahra, County Engineer

WORDING FOR AGENDA ITEM:

Consider approval of resolution to set speed limits on Allison Avenue and 235th Street.

ACTION REQUIRED:

Approve Ordinance ☐ Approve Resolution ☐ Approve Motion ☑

Public Hearing ☐ Other: Informational ☐ Attachments ☑

EXECUTIVE SUMMARY:

Speed limits were added to Allison Avenue and 235th Street to control traffic during the CF Industries construction project. The need for these reduced speed limits is no longer present.

BACKGROUND:

Speed limits were added to Allison Avenue and 235th Street to control traffic generated by the CF Industries construction project. Traffic levels for the project at this intersection started at approximately 600 vpd and grew to over 10,000 vpd. Now that construction is completed and traffic has returned to pre-project levels, the need for the greatly reduced speed limit is no longer present.

FINANCIAL IMPACT:

There is minimal cost to changing of the signs in place for the new speed limits. It will restore former traffic patterns to this area reducing inconvenience to local residents.

IF THERE IS A CONTRACT INVOLVED IN THE AGENDA ITEM, HAS THE CONTRACT BEEN SUBMITTED AT LEAST ONE WEEK PRIOR AND ANSWERED WITH A REVIEW BY THE COUNTY ATTORNEY'S OFFICE?

Yes ☐ **No** ☑

RECOMMENDATION:

I recommend that the Board approve the resolution to change speed limits on Allison Avenue and 235th Street.

ACTION REQUIRED / PROPOSED MOTION:

Motion to approve the resolution establishing new speed limits on 235th Street and Allison Avenue.

Approved by Board of Supervisors April 5, 2016.

SPEED LIMIT RESOLUTION
ALLISON AVENUE
RESOLUTION NO. _____

WHEREAS: The Board of Supervisors of Woodbury County is empowered under the authority of sections 321.255 and 321.285, subsection 4 of the Code of Iowa to determine upon the basis of an engineering and traffic investigation conducted by the County Engineer that the speed limit of any secondary road is greater than is reasonable and proper under the conditions existing, and may determine and declare a reasonable and proper speed limit, and

WHEREAS: Such investigation has been requested and completed and the county engineer has reached an opinion concerning the reasonable and proper speed for the road listed herein,

NOW, THEREFORE BE IT RESOLVED, by the Woodbury County Board of Supervisors that the following speed limit be established and appropriate signs erected at the locations described as follows:

1). Beginning at the intersection of 225th Street and Allison Avenue then proceeding south on Allison Avenue to the end of the county maintenance, a speed limit of 45 miles per hour is established.

2). Beginning at the intersection of Andrew Avenue and 235th Street then proceeding west on 235th Street to the intersection of Allison Avenue, a speed limit of 45 miles per hour is established.

Speed limit shall be effective when appropriate signs giving notice of the speed limits are erected.

Passed and approved this 7th day of March, 2017 by the Woodbury County Board of Supervisors.

_____
Matthew Ung, Chairperson

_____
Rocky DeWitt, Member

_____
Marty Pottebaum, Member

_____
Keith Radig, Member

_____
Jeremy Taylor, Member

Recommended:

_____
Mark Nahra, Woodbury County Engineer

ATTEST:

_____
Patrick Gill, Woodbury County Auditor

WOODBURY COUNTY BOARD OF SUPERVISORS AGENDA ITEM(S) REQUEST FORM #16g

Date: 3/2/2017 Weekly Agenda Date: 3/7/2017

ELECTED OFFICIAL / DEPARTMENT HEAD / CITIZEN: Mark J. Nahra, County Engineer

WORDING FOR AGENDA ITEM:

Consider approval of resolution to remove stop signs on Allison Avenue.

ACTION REQUIRED:

Approve Ordinance ☐ Approve Resolution ☐ Approve Motion ☑

Public Hearing ☐ Other: Informational ☐ Attachments ☑

EXECUTIVE SUMMARY:

Stop signs were added to two intersections on Allison Avenue to control traffic during the CF Industries construction project. The need for those stop signs is no longer present.

BACKGROUND:

Stop signs were added to the intersection of Allison Avenue and 235th Street to control traffic generated by the CF Industries construction project. Traffic levels for the project at this intersection started at approximately 600 vpd and grew to over 10,000 vpd. Now that construction is completed and traffic has returned to pre project levels, the need for the stop signs is no longer present.

FINANCIAL IMPACT:

There is minimal cost to removal of the stop signs. It will restore former traffic patterns to this area reducing inconvenience to local residents.

IF THERE IS A CONTRACT INVOLVED IN THE AGENDA ITEM, HAS THE CONTRACT BEEN SUBMITTED AT LEAST ONE WEEK PRIOR AND ANSWERED WITH A REVIEW BY THE COUNTY ATTORNEY'S OFFICE?

Yes ☐ **No** ☑

RECOMMENDATION:

I recommend that the Board approve the resolution to remove the stop signs at the intersection of Allison Avenue and 235th Street.

ACTION REQUIRED / PROPOSED MOTION:

Motion to approve resolution to remove stop signs at the intersection of Allison Avenue and 235th Street.

Approved by Board of Supervisors April 5, 2016.

RESOLUTION FOR THE REMOVAL OF STOP SIGNS AT THE INTERSECTION OF 235th STREET AND ALLISON AVENUE
RESOLUTION NO. _____

WHEREAS, under the provisions of Section 321.255 and 321.236 (1C)(6) of the 2017 Code of Iowa, the Board of Supervisors and County Engineer are empowered to designate the location and erection of stop signs,

AND WHEREAS, the County Board and County Engineer may designate certain roads as through roads with the erection of stop signs at specified locations furnishing access thereto or designation of any intersection as a stop intersection and erect like signs at one or more locations of access to such intersections.

AND WHEREAS, traffic through the intersection changed due to the use of 235th Street and Allison Avenue as haul roads during the construction of the new CF Industries plant, resulting in a significant change to the volume of traffic at this intersection,

AND WHEREAS, said traffic is no longer present with the completion of the project,

AND WHEREAS, there is currently a stop sign controlling eastbound and westbound traffic at the intersection,

AND WHEREAS, with the restoration of preconstruction levels of traffic at the intersection, it is no longer necessary to control traffic with a four way stop,

NOW THEREFORE BE IT RESOLVED, that the Board of Supervisors of Woodbury County on this 7th day of March, 2017, approves the removal of stop signs at the intersection described below:

1. Located at the W ¼ corner of Section 25, T87N, R48W, designated as the intersection of 235th Street and Allison Avenue, remove stop signs causing traffic travelling on Allison Avenue northbound and southbound to come to a complete stop.

Woodbury County Board of Supervisors

_____
Matthew Ung, Chairman

_____
Rocky DeWitt, Member

_____
Marty Pottebaum, Member

_____
Keith Radig, Member

_____
Jeremy Taylor, Member

Recommended:

_____
Woodbury County Engineer

Attest:

_____
Woodbury County Auditor

WOODBURY COUNTY BOARD OF SUPERVISORS AGENDA ITEM(S) REQUEST FORM #16h

Date: 3/2/2017 Weekly Agenda Date: 3/7/2017

ELECTED OFFICIAL / DEPARTMENT HEAD / CITIZEN: Mark J. Nahra, County Engineer

WORDING FOR AGENDA ITEM:

Consider approval of resolution to set speed limit on Easter Avenue/County Route K49.

ACTION REQUIRED:

Approve Ordinance ☐ Approve Resolution ☐ Approve Motion ☑

Public Hearing ☐ Other: Informational ☐ Attachments ☑

EXECUTIVE SUMMARY:

Speed limits were requested on Easter Avenue north of Lawton, Iowa. The need for these reduced speed limits has been confirmed by a speed study completed by the County Engineer.

BACKGROUND:

County Road K49/Easter Avenue north of Lawton currently has a 55 mph speed limit. A lower speed limit were requested by the City of Lawton on county route K49/Easter Avenue north of town. The county engineer has conducted a speed study and recommends a reduced speed limit on that road segment.

FINANCIAL IMPACT:

Signs for the new speed limits will cost about $250. The cost comes out of the local secondary road fund traffic control line items.

IF THERE IS A CONTRACT INVOLVED IN THE AGENDA ITEM, HAS THE CONTRACT BEEN SUBMITTED AT LEAST ONE WEEK PRIOR AND ANSWERED WITH A REVIEW BY THE COUNTY ATTORNEY'S OFFICE?

Yes ☐ **No** ☑

RECOMMENDATION:

I recommend that the Board approve the resolution to change speed limits on Easter Avenue.

ACTION REQUIRED / PROPOSED MOTION:

Motion to approve the resolution establishing new 45 mph speed limits on Easter Avenue.

Approved by Board of Supervisors April 5, 2016.

SPEED LIMIT RESOLUTION
EASTER AVENUE
RESOLUTION NO. _____

WHEREAS: The Board of Supervisors of Woodbury County is empowered under the authority of sections 321.255 and 321.285, subsection 4 of the Code of Iowa to determine upon the basis of an engineering and traffic investigation conducted by the County Engineer that the speed limit of any secondary road is greater than is reasonable and proper under the conditions existing, and may determine and declare a reasonable and proper speed limit, and

WHEREAS: Such investigation has been requested and completed and the county engineer has reached an opinion concerning the reasonable and proper speed for the road listed herein,

NOW, THEREFORE BE IT RESOLVED, by the Woodbury County Board of Supervisors that the following speed limit be established and appropriate signs erected at the locations described as follows:

1). Beginning at the intersection of 150th Street and Easter Avenue, designated county route K49, then proceeding south on Easter Avenue to the north city limit of Lawton, Iowa, a speed limit of 45 miles per hour is established.

Speed limit shall be effective when appropriate signs giving notice of the speed limits are erected.

Passed and approved this 7th day of March, 2017 by the Woodbury County Board of Supervisors.

_____
Matthew Ung, Chairperson

_____
Rocky DeWitt, Member

_____
Marty Pottebaum, Member

_____
Keith Radig, Member

_____
Jeremy Taylor, Member

Recommended:

_____
Mark Nahra, Woodbury County Engineer

ATTEST:

_____
Patrick Gill, Woodbury County Auditor

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CONFERENCE PROGRAM

TRACK 1:

9-9:45 Trenching and Shoring Safety
10-10:45 Worker's Compensation 101
11-11:45 Iowa OSHA Updates
12-1PM Keynote: Rick Crowl, JR, Worker's Compensation Attorney
1:15-2 How to Achieve a Successful Behavior Based Program
2:15-3 How to Assess Your Safety Culture
3-4 Ergonomics...It's a Journey!

TRACK 2:

9-9:45 Arc Flash and OSHA
10-10:45 Emergency Planning & Preparedness
11-11:45 Active Shooter Survival Tactics
12-1PM Keynote: Rick Crowl, JR, Worker's Compensation Attorney
1:15-2 Slips, Trips, and Falls
2:15-3 Maximizing the Wellness/Safety Connection
3-4 DOT and Driving Safety

Pre-registration: $75
Day of: $100

All speakers and session titles subject to change.

Woodbury County Board of Supervisors
620 Douglas St Rm 104
Sioux City IA 51101-1248