NOTICE OF MEETING OF THE WOODBURY COUNTY BOARD OF SUPERVISORS
(FEBRUARY 28, 2017) (WEEK 9 OF 2017)

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Agenda and Minutes also available at www.woodburycountyiowa.gov

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 February 28, 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

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

4:30 p.m. 1. Call Meeting to Order – Pledge of Allegiance to the Flag – Moment of Silence

2. Citizen Concerns — Information

3. Approval of the agenda February 28, 2017 — Action

Consent Agenda

Items 4 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.

4. Approval of the minutes of the February 21, 2017 meeting

5. Approval of claims

6. Board Administration – Karen James
   Approval of resolution for a tax suspension for K. M.

7. Board Administration/Public Bidder – Heather Satterwhite
   Approval of resolution for notice of property sale Parcel #536161 (aka 3099 Transit Ave.) setting for Tuesday, March 14th at 4:35 p.m.

8. Human Resources – Ed Gilliland
   Approval of Memorandum of Personnel Transactions

9. County Auditor – Patrick Gill
   a. Receive Pierson City Council appointment
   b. Receive Auditor's Quarterly Report

End of Consent Agenda

4:35 p.m. (Set time)

10. Board Administration/Public Bidder
    Public Hearing and Sale of Property Parcel #128580 (aka 1203 W. 3rd St.) — Action

11. Communication Center – Glenn Sedivy
    a. Approval of resolution fixing date of March 7, 2017, for a public hearing at 4:45 p.m. for an agreement for Motorola Solutions Inc. to lease space within the Homer Tower site for their operations — Action
    b. Approval of resolution fixing date of March 7, 2017, for a public hearing at 4:50 p.m. for an agreement for Motorola Solutions Inc. to lease space within the Anthon Tower site for their operations — Action
    c. Approval of resolution fixing date of March 7, 2017, for a public hearing at 4:55 p.m. for an agreement for Motorola Solutions Inc. to lease space within the East Tower site for their operations — Action

12. Rural Economic Development – David Gleiser
    Authorize Chairman to sign Home Base Iowa resolution — Action

13. County Auditor – Patrick Gill
    Motion to receive the signed Communications Workers of America AFL-CIO (CWA) contract for the period for FY 2017-2021 — Action

5:00 p.m. (Set time)

14. Building Services – Kenny Schmitz
    a. Public Hearing on the Woodbury County LEC Optimization Plan — Public Hearing
    b. Motion to ratify LEC Optimization Plan — Action
    c. Motion to approve Optimization Plan B "Intake Area" project funding in the amount of $1.2 million — Action

15. Chairman's Report — Information
    a. Reminder regarding committee attendance
    b. Sioux City Conference Board Meeting (Feb. 23, Ung & De Witt)

16. Reports on Committee Meetings — Information

17. Citizen Concerns — Information

18. Board Concerns and Comments — Information

ADJOURNMENT

Subject to Additions/Deletions

CALENDAR OF EVENTS

MONDAY, FEBRUARY 27	**10:00 a.m.**	Loess Hills Alliance, Economic Development Committee Meeting Harrison County Welcome Center, Missouri Valley, Iowa
	6:00 p.m.	Zoning Commission Meeting, Board of Supervisors' Chambers
	7:30 p.m.	Fair Board Meeting, Woodbury County Fair Office, Fairgrounds, Moville
TUESDAY, FEBRUARY 28	**12:30 p.m.**	Sioux Rivers Regional Governance Board Meeting, Plymouth County Courthouse Annex Building, 215 4th Ave. S.E., Le Mars, Iowa
WEDNESDAY, MARCH 1	**12:00 noon**	District Board of Health Meeting, 1014 Nebraska St.
THURSDAY, MARCH 2	**1:30 p.m.**	SIMPCO MPO Policy Board meeting,
MONDAY, MARCH 6	**6:00 p.m.**	Board of Adjustment meeting, Board of Supervisors' Chambers
TUESDAY, MARCH 7	**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.**	911 Service Board Meeting, Public Safety Center, Climbing Hill
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
	12:00 noon	SIMPCO Board of Directors, 1122 Pierce St, 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
	7:30 p.m.	Fair Board Meeting, Woodbury County Fair Office, Fairgrounds, Moville, Iowa

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

#4

FEBRUARY 21, 2017, EIGHTH MEETING OF THE WOODBURY COUNTY BOARD OF SUPERVISORS

The Board of Supervisors met on Tuesday, February 21, 2017 at 2:00 p.m. Board members present were Ung, De Witt, Pottebaum, Radig, and Taylor. Staff members present were Dennis Butler, Budget/Tax Analyst, Karen James, Board Administrative Coordinator, Ed Gilliland, Human Resources Director, Abigail Sills, Assistant County Attorney and Patrick Gill, Auditor/Clerk to the Board.

1. Dennis Butler provided an update on the proposed tax rate.

2a. Motion by Taylor second by Ung to approve a reduction of $26,905 in the proposed budget for the Sheriff Lease/Purchase for additional cells. Carried 5-0.

2b. Motion by Taylor second by Ung to increase the term of the 2017 CIP Capital Loan program from five to ten years. Carried 5-0.

2c. Motion by Taylor second by Ung to allocate the proceeds from the change to the term of the 2017 CIP Capital Loan program to Cash Reserves. Carried 5-0.

2d. Motion by Ung second by Pottebaum to approve the 2018 CIP Program plan as submitted. Carried 5-0.

2e. Motion by Ung second by Taylor to remove a duplicated $11,000 expenditure for county fair operations from the proposed general basic fund budget. Carried 5-0.

3. Motion by Ung second by Taylor to go into closed session per Iowa Code Section 21.5. Carried 5-0 on a roll-call vote.

Motion by Taylor second by Ung to go out of closed session per Iowa Code Section 21.5. Carried 5-0 on a roll-call vote.

Motion by Ung second by De Witt to approve the recommendation of the County Attorney as advised in the previous executive session. Carried 5-0.

Motion by Ung second by Taylor to approve the request of the County Auditor and Recorder to engage an attorney for representation in pending litigation. Carried 5-0.

4. Motion by Ung second by Radig to go into closed session per Iowa Code Section 21.5(1)(a). Carried 5-0 on a roll-call vote.

Motion by Ung second by Taylor to go out of closed session per Iowa Code Section 21.5(1)(a). Carried 5-0 on a roll-call vote.

Motion by Ung second by De Witt to defer a decision on an appeal for two weeks. Carried 5-0

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

6. There were no citizen concerns.

7. Motion by Ung second by Taylor to approve the Agenda for February 21, 2017. Carried 5-0. Copy filed.

Motion by Radig second by Taylor to approve the following items by consent:

8. To approve minutes of the February 14, 2017 meeting. Copy filed.

9. To approve the claims totaling $414,682.53. Copy filed.

10. To approve and authorize the Chairperson to sign a Resolution approving petition for suspension of taxes for Mary Miller, 1619 Isabella St, parcel #894720376008. Carried.

WOODBURY COUNTY, IOWA
RESOLUTION #12,490
RESOLUTION APPROVING PETITION FOR SUSPENSION OF TAXES

WHEREAS, Mary F. Miller, is the titleholder of property located at 1619 Isabella St., Sioux City, Woodbury County, Iowa, and legally described as follows:

Parcel # 894720376008

NORTH SIOUX CITY LOT 2 BLOCK 22

WHEREAS, Mary F. Miller, is the titleholder of the aforementioned properties 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 21st day of February, 2017.
WOODBURY COUNTY BOARD OF SUPERVISORS
Copy filed.

11a. To approve and authorize the Chairperson to sign a Resolution setting the public hearing date and sale date of parcel #194595, 320 Argonne Place, Sioux City.

RESOLUTION #12,491
NOTICE OF PROPERTY SALE

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.

Dated this 21st Day of February, 2017.
WOODBURY COUNTY BOARD OF SUPERVISORS

Copy filed.

11b. To approve and authorize the Chairperson to sign a Resolution setting the public hearing date and sale date of parcel #016488, 1221 Tri-View Ave, Sioux City.

RESOLUTION #12,492
NOTICE OF PROPERTY SALE

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.

Dated this 21st Day of February, 2017.
WOODBURY COUNTY BOARD OF SUPERVISORS
Copy filed.

12. To approve the separation of Richard Elliott, Sheriff Reserve Officer, County Sheriff Dept., effective 02-15-17. Resignation.; the reclassification of Jerardo Cruz, Court Security Officer, County Sheriff Dept., effective 03-09-17, $24.12/hour, 11.5%=$2.51/hour. Per CWA Civilian Officers Contract agreement, from Senior Class to Master Class.; the separation of Susan Everton, Motor Vehicle Clerk, County Treasurer Dept., effective 03-31-17. Retirement.; and the separation of Margaret Napier, Clerk II, Planning& Zoning Dept., effective 09-05-17. Retirement. Copy filed.

13. To receive the appointment of Don Joy, Jr., 105 State St., Cushing, IA to the Cushing's City Council until the next regular/general election. Copy filed.

14. To approve an underground utility permit for Western Iowa Telephone. Copy filed.

Carried 5-0.

15. A public hearing was held at 4:35 p.m. for the sale of parcel #652425, 117 E. State St. The Chairperson called on anyone wishing to be heard.

Motion by Ung second by Taylor to close the public hearing. Carried 5-0.

Motion by Ung second by Taylor to approve and authorize the Chairperson to sign a Resolution for the sale of this parcel to Grant & Susan Fitch, 1488 Lenox Ave, Correctionville, IA, for real estate parcel #842296, , for $300.00 plus recording fees. Carried 5-0.

RESOLUTION OF THE BOARD
OF SUPERVISORS OF WOODBURY COUNTY, IOWA
RESOLUTION #12,493

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

By Grant & Susan Fitch in the sum of **Three Hundred Dollars & 00/100 ($300.00)**----------dollars.

For the following described real estate, To Wit:

Parcel #842296

A parcel of land being part of abandoned railroad right of way in the NW NE of 34-89-42 lying north of the northerly line of the Little Sioux River with said parcel being 100 foot wide and containing 1.89 acres more or less

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 21st Day of February, 2017.
WOODBURY COUNTY BOARD OF SUPERVISORS
Copy filed.

16. Dennis Butler presented an update on the proposed tax rate as the result of action the Board took previously in the meeting.

17. Motion by Taylor second by Pottebaum to approve the awarding of $25,000 from gaming revenues to the Art Center Association of Sioux City's Planned Learning Center contingent on a successful application to Advance Iowa. Carried 4-1; De Witt opposed. Copy filed.

18. Motion by Taylor second by Ung to set a public hearing on the LEC Optimization Plan for Feb. 28, 2017 at 5:00 p.m. Carried 5-0. Copy filed.

19. Motion by Taylor second by Radig to approve the consolidation of the Rural Economic Development and Planning and Zoning Departments and to direct the Human Resources Department to formulate a plan to implement the consolidation by January 1, 2018. Carried 3-2; De Witt and Pottebaum were opposed. Copy filed.

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

21. The Board members reported on their committee meetings.

22. Citizen concerns.

23. Board members presented their concerns and comments.

The Board adjourned the regular meeting until February 28, 2017.

Meeting sign in sheet. Copy filed.

#6

WOODBURY COUNTY, IOWA
BOARD ADMINISTRATION
MEMORANDUM

TO: Board of Supervisors

FROM: Karen James, Board Administrative Coordinator

RE: Consideration of A Petition For A Tax Suspension

DATE: February 23, 2017

Please consider this request for a tax suspension for K. M. If the Board approves this request, the suspension resolution requires the chairman's signature

Thank you.

kmj

#7

RESOLUTION

NOTICE OF PROPERTY SALE

Parcels #536161

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.

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 28th 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: Shay Hacker **Date:** 10-14-14

Address: 2910 Garretson Ave. **Phone:** 712-301-8472

Address or approximate address/location of property interested in:

3099 Transit Ave.

8848 01 238 001

GIS PIN #

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

Legal Description:

W66 ft. N 12.45 ft. Lot 1 & TRI TCT in N1/4 & W1/4 Part Lot 2 Block 60 West Morningside Addition

Tax Sale #/Date: 01040 / 2011 **Parcel #** 536161

Tax Deeded to Woodbury County on: 10/25/16

Current Assessed Value: **Land** $7,800 **Building** — **Total** $7,800

Approximate Delinquent Real Estate Taxes: $814.00 ~~$993.00~~

Approximate Delinquent Special Assessment Taxes: —

***Cost of Services:** $106

Inspection to: George Boykin **Date:** 10-14-14

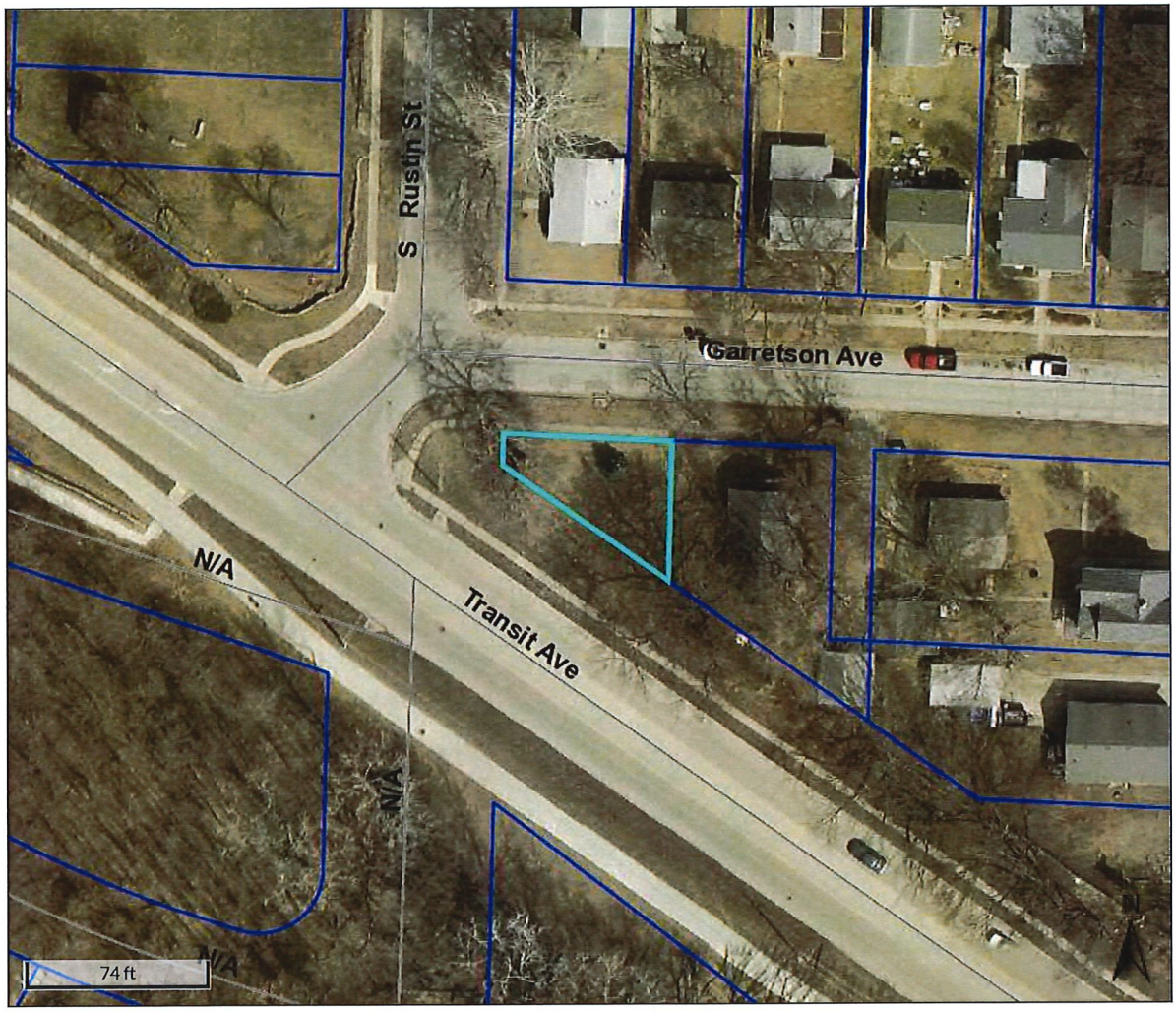
Minimum Bid Set by Supervisor: $500.00 plus $106 for cost of services

Date and Time Set for Auction: Tuesday, March 14th @ 4:35 Total: $606

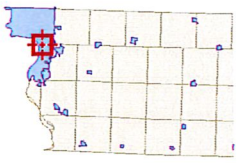
* Includes: Abstractors costs; Sheriff's costs: publishing costs; and mailing costs.

(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	884801238001	**Alternate ID**	536161	**Owner Address**	WOODBURY COUNTY
Sec/Twp/Rng	0-0-0	**Class**	R		620 DOUGLAS ST
Property Address	3099 TRANSIT AVE	**Acreage**	n/a		SIOUX CITY IA 51101
	SIOUX CITY				

District 087 SC LL SIOUX CITY COMM

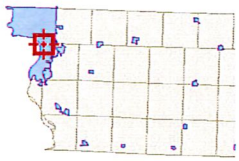
Brief Tax Description WEST MORNINGSIDE
W 66 FT N 12.45 FT L
OT 1 & TRI TCT IN NL
Y & WLY PART LOT 2 B
LK 60
(Note: Not to be used on legal documents)

Date created: 2/20/2017
Last Data Uploaded: 2/17/2017 10:54:30 PM

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	884801238001	**Alternate ID**	536161	**Owner Address**	WOODBURY COUNTY
Sec/Twp/Rng	0-0-0	**Class**	R		620 DOUGLAS ST
Property Address	3099 TRANSIT AVE	**Acreage**	n/a		SIOUX CITY IA 51101
	SIOUX CITY				

District 087 SC LL SIOUX CITY COMM

Brief Tax Description WEST MORNINGSIDE
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LK 60
(Note: Not to be used on legal documents)

Date created: 2/20/2017
Last Data Uploaded: 2/17/2017 10:54:30 PM

Developed by
The Schneider Corporation

HUMAN RESOURCES DEPARTMENT

#8

MEMORANDUM OF PERSONNEL TRANSACTIONS

DATE: February 28, 2017

*** PERSONNEL ACTION CODE:**

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

TO: WOODBURY COUNTY BOARD OF SUPERVISORS

NAME	DEPARTMENT	EFFECTIVE DATE	JOB TITLE	SALARY REQUESTED	% INCREASE	*	REMARKS
Johnson, Dustin	County Treasurer	3-01-17	M.V. Clerk II	$15.64/hour		A	Job Vacancy Posted 1-18-17. Entry Level Salary: $15.64/hour.
Weitzel, Jason	Building Services	3-12-17	Custodian	$16.44/hour	6%=$.96/hour	R	Per AFSCME Courthouse Contract agreement, from Grade 1/Step 3 to Grade 1/Step 4.
Shook, Krystle	County Treasurer	3-17-17	M.V. Clerk II	$17.18/hour	5%=$.82/hour	R	Per AFSCME Courthouse Contract agreement, from Grade 3/Step 2 to Grade 3/Step 3.

APPROVED BY BOARD DATE: _____

ED GILLILAND, HR DIRECTOR: Ed 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: February 28, 2017

For the February 28, 2017 meeting of the Board of Supervisors and the Taxpayers of Woodbury County the Memorandum of Personnel Transactions will include:

1) County Treasurer M.V. Clerk II, Appointment.
2) Building Services Custodian, from Grade 1/Step 3 to Grade 1/Step 4.
3) County Treasurer M.V. Clerk II, from Grade 3/Step 2 to Grade 3/Step 3.

Thank you

#9a

WOODBURY COUNTY
SIOUX CITY, IOWA 51101

Office of Commissioner of Elections

620 DOUGLAS ST., ROOM 103

Patrick F. Gill
Commissioner
Phone 712-279-6465
Fax 712-279-6629
pgill@woodburycountyiowa.gov

Steve Hofmeyer
Deputy Commissioner
Phone 712-279-6465
Fax 712-279-6629
shofmeyer@woodburycountyiowa.gov

To: Board of Supervisors

From: Patrick F. Gill, Auditor/Recorder & Commissioner of Elections

Date: February 21, 2017

Re: Pierson City Council Appointment

Please receive the appointment of Fred Bouc, 29 Elm Street, Pierson, Iowa, 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.

NOTICE OF APPOINTMENT TO FILL A VACANCY

TO: Patrick F. Gill, Woodbury County Auditor/Recorder & Commissioner of Elections

From: City of Pierson — School/City/Township/ Extension/Soil & Water

Jeanette Beekman — Secretary/Clerk

2/21/17 (appointed on 2/20/17) — Date

This is to notify you and the Board of Supervisors of Woodbury County that the following person has been appointed until the next regular/general election:

For the office of City Council

Name Fred Bauc

Address 29 Elm St.

City/Zip Pierson IA 51048

This appointment is to fill the office previously held by:

Krystal Kauffman-Smith
(Name of previous official)

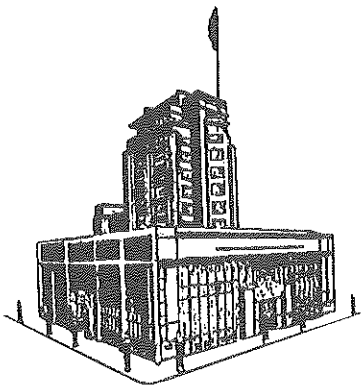
FILED
PATRICK F. GILL
AUDITOR/RECORDER
WOODBURY COUNTY, IOWA
2017 FEB 21 PM 3:14
BOARD OF SUPERVISORS
OFFICE OF ELECTIONS

#9b

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



AUDITOR'S QUARTERLY REPORT

October 1, 2016 / December 31, 2016

Patrick F. Gill, Woodbury County Auditor/Recorder
Payroll Taxes

Beginning Cash Balance	October 1, 2016		
Payroll Taxes		689,038.91	
Other		73.13	
Total Beginning Balance			689,112.04
Receipts:			
Payroll Taxes		2,250,805.23	
Interest		129.69	
Other			
Total Receipts			2,250,934.92
Total Resources			2,940,046.96
Disbursements:			
Payroll Taxes		2,939,633.30	
Interest Paid to Treasurer		76.45	
Other			
Total Disbursements			2,939,709.75
Ending Cash Balance	December 31,2016		
Payroll Taxes		210.84	
Other		126.37	
Total Ending Balance			337.21

I, Patrick F. Gill, County Auditor/Recorder of Woodbury County, Iowa, hereby certify the above to be a true and correct statement of the Receipts and Disbursements of the office of County Auditor for the 2nd Quarter ending 12/31/16.

Patrick F. Gill, County Auditor/Recorder

#10

RESOLUTION

NOTICE OF PROPERTY SALE

Parcels #128580

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

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

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 **28th Day of February, 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 **28th Day of February, 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 $156.00** 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 14th 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: Donna Johnson **Date:** 4-11-16

Address: 313 Myrtle St. Sioux City, IA 51103 **Phone:** 712-389-0489

Address or approximate address/location of property interested in:

1203 W 3rd St.

GIS PIN # 8947 29 181 022

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

Legal Description:

South 74 feet Lot 13 Block 3 Sioux City Davis Addition

Tax Sale #/Date: 2014/00829 **Parcel #** 128580

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

Current Assessed Value: **Land** $200 **Building** — **Total** $200

Approximate Delinquent Real Estate Taxes: $1481.00

Approximate Delinquent Special Assessment Taxes: $2928.00

***Cost of Services:** $106

Inspection to: Jeremy Taylor **Date:** 4-11-16

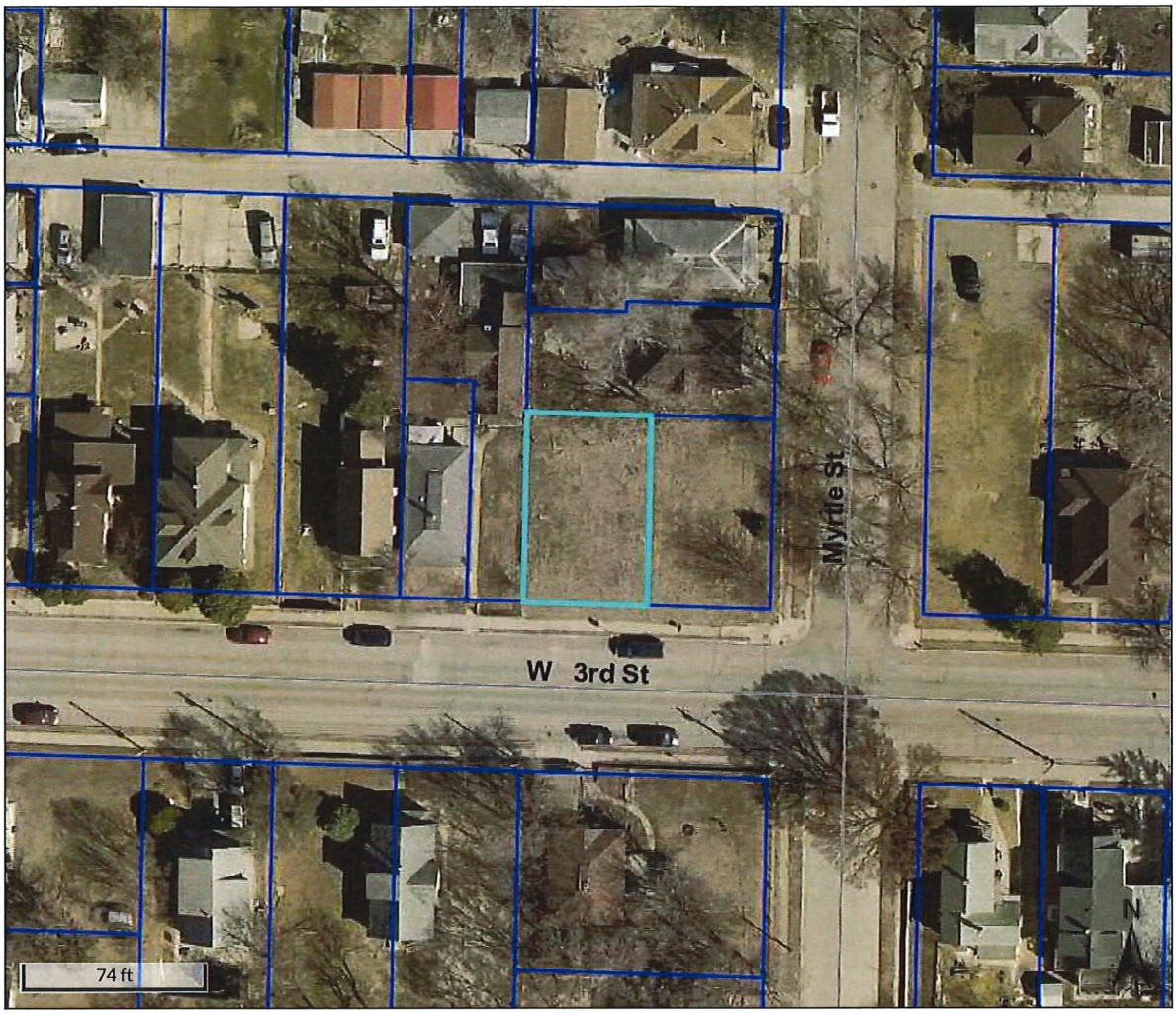
Minimum Bid Set by Supervisor: $50 plus $106 for cost of service for a Total of $156

Date and Time Set for Auction: Tuesday, February 28 @ 2:35

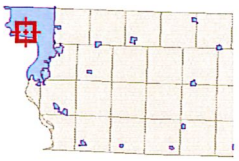
* Includes: Abstractors costs; Sheriff's costs: publishing costs; and mailing costs.

(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	894729181022	**Alternate ID**	128580	**Owner Address**	WOODBURY COUNTY
Sec/Twp/Rng	0-0-0	**Class**	R		620 DOUGLAS ST
Property Address	1203 W 3RD ST	**Acreage**	n/a		SIOUX CITY IA 51101
	SIOUX CITY				

District 087 SC LL SIOUX CITY COMM

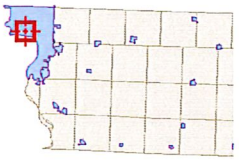
Brief Tax Description SIOUX CITY DAVIS
S 74 FT LOT 13 BLK 3
(Note: Not to be used on legal documents)

Date created: 2/6/2017
Last Data Uploaded: 2/3/2017 10:54:04 PM

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	894729181022	**Alternate ID**	128580	**Owner Address**	WOODBURY COUNTY
Sec/Twp/Rng	0-0-0	**Class**	R		620 DOUGLAS ST
Property Address	1203 W 3RD ST	**Acreage**	n/a		SIOUX CITY IA 51101
	SIOUX CITY				

District 087 SC LL SIOUX CITY COMM

Brief Tax Description SIOUX CITY DAVIS
S 74 FT LOT 13 BLK 3
(Note: Not to be used on legal documents)

Date created: 2/6/2017
Last Data Uploaded: 2/3/2017 10:54:04 PM

Developed by
The Schneider Corporation

#11a

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

Date: 02-21-17 Weekly Agenda Date: 02-28-17

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

WORDING FOR AGENDA ITEM:

Approval of Resolution fixing date of March 7th, 2017 for a Public hearing at 4:45 pm for an Agreement for Motorola Solutions Inc. to lease Space within the Homer Tower site 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 7th, 2017 agenda as a Public Hearing

ACTION REQUIRED / PROPOSED MOTION:

Place this item on the March 7th, 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 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 <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

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. <u>Approval</u>. 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. <u>Mutual Waiver of Consequential Damages and Limitation of Liability</u>. 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

#11b

Date: 02-21-17 Weekly Agenda Date: 02-28-17

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

WORDING FOR AGENDA ITEM:

Approval of Resolution fixing date of March 7th, 2017 for a Public hearing at 4:50 pm for an Agreement for Motorola Solutions Inc. to lease Space within the Anthon Tower site 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 7th, 2017 agenda as a Public Hearing

ACTION REQUIRED / PROPOSED MOTION:

Place this item on the March 7th, 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 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 <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

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.

REMAINDER OF THIS PAGE IS INTENTIONALLY LEFT BLANK

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

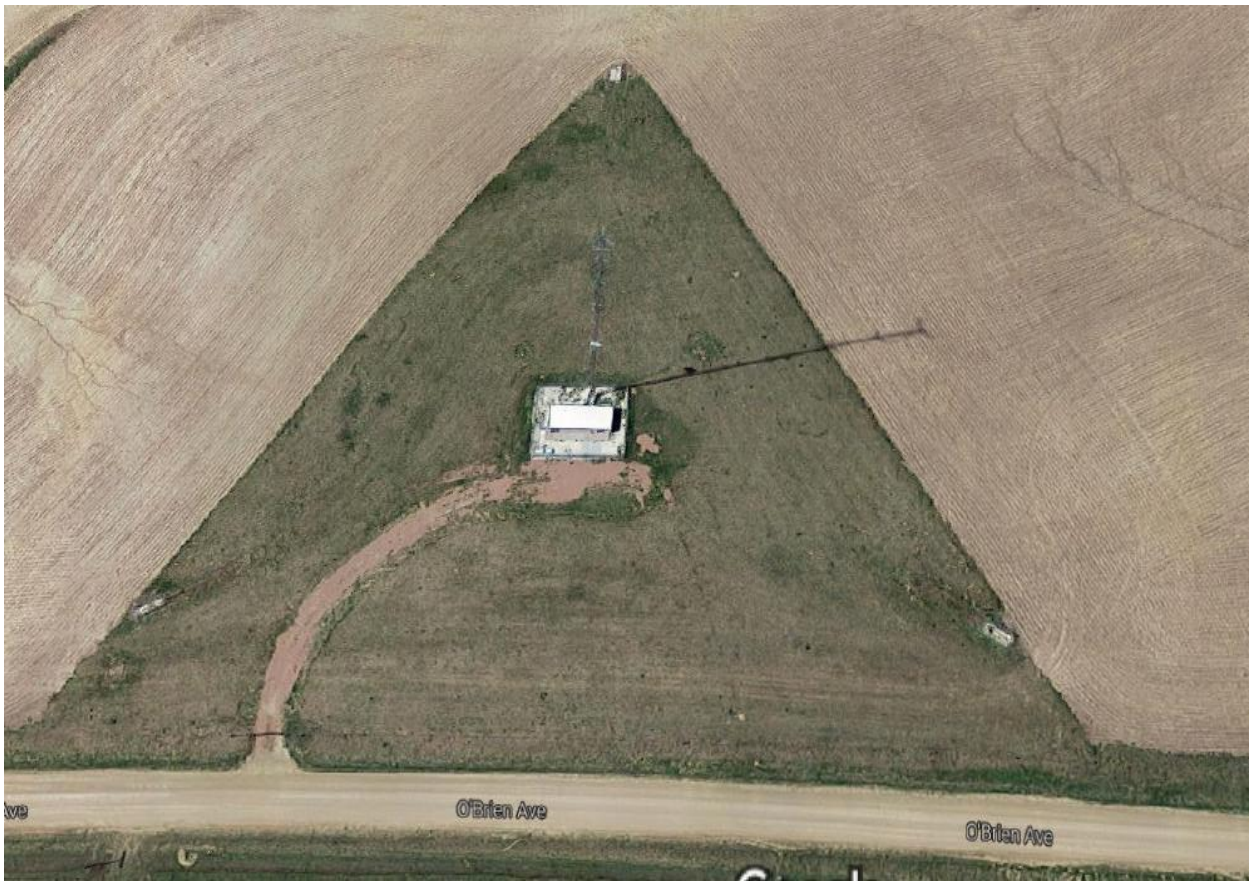
EXHIBIT A

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.

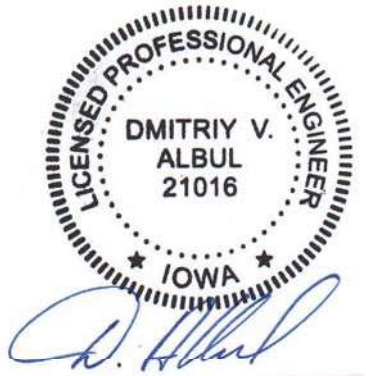
We appreciate the opportunity to provide our services Pyramid Network Services, Motorola and Iowa State EMS, and if you have any questions concerning this analysis, please contact us. Please let us know if we can be of further assistance in providing a price quote to design the reinforcement for this tower.

Sincerely,

ARMOR TOWER, INC.

Patrick Propert

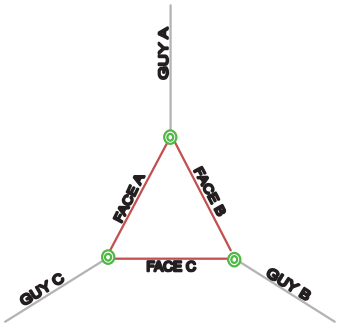
Patrick Propert
Structural Design Engineer II



05/12/2016

9 North Main Street, 2nd Floor, Cortland, NY 13045
(607)591-5381 Fax: (866)870-0840 www.ArmorTower.com

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.

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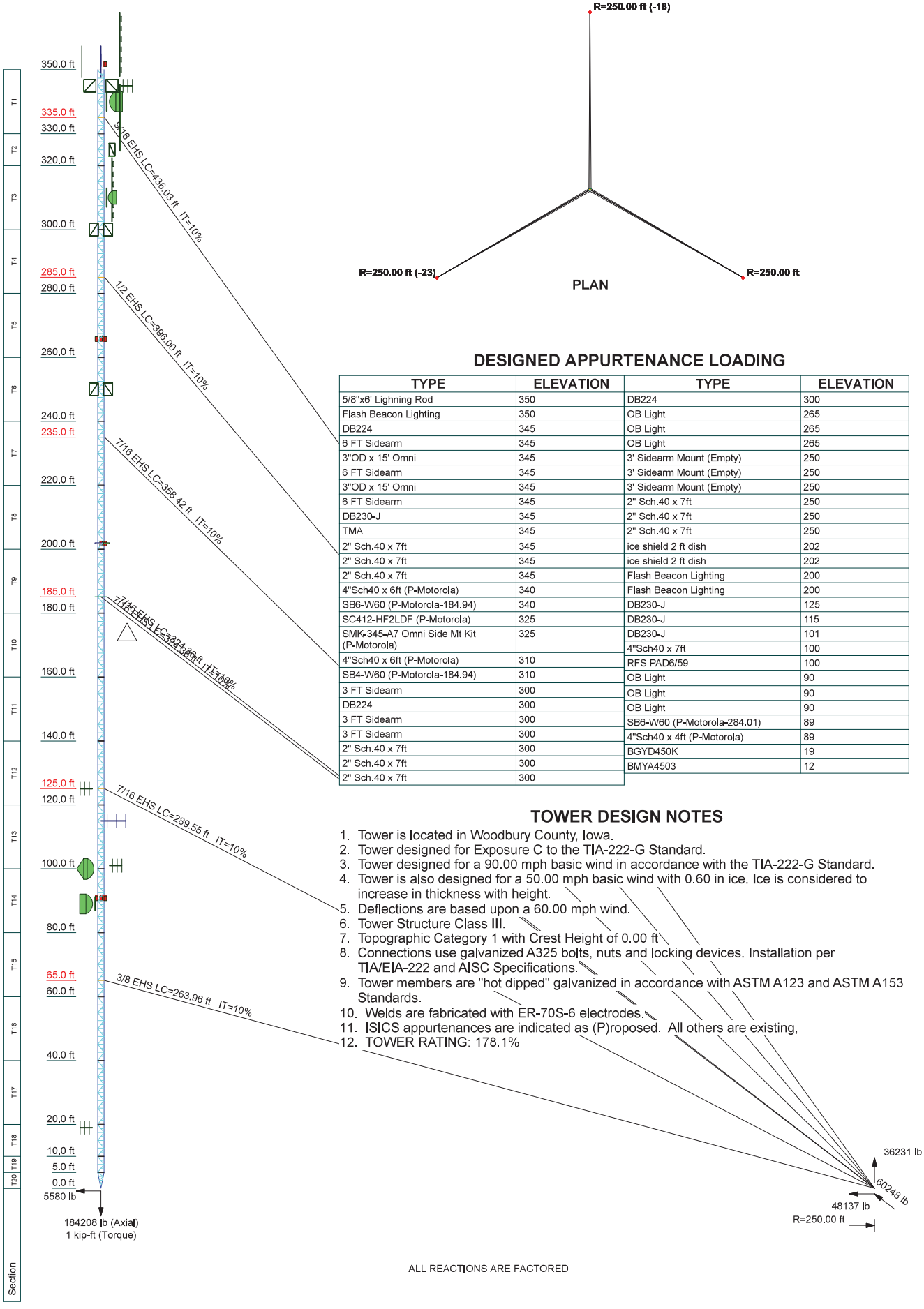
(607)591-5381 Fax: (866)870-0840 www.ArmorTower.com



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%

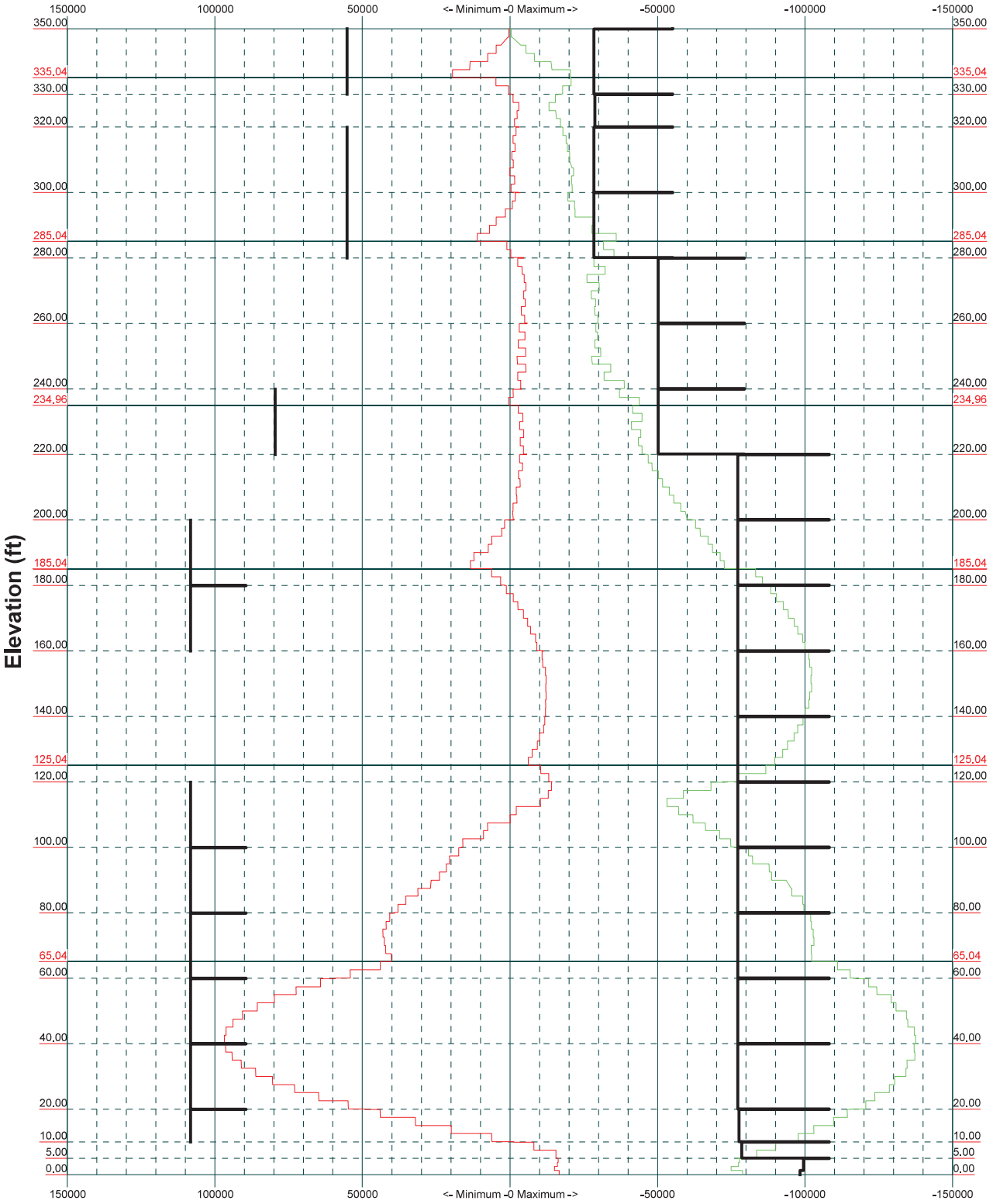
ALL REACTIONS ARE FACTORED

ARMOR TOWER
Armor Tower, Inc.
9 N Main St
Cortland, NY 13045
Phone: (607) 591-5381
FAX: (866) 870-0840

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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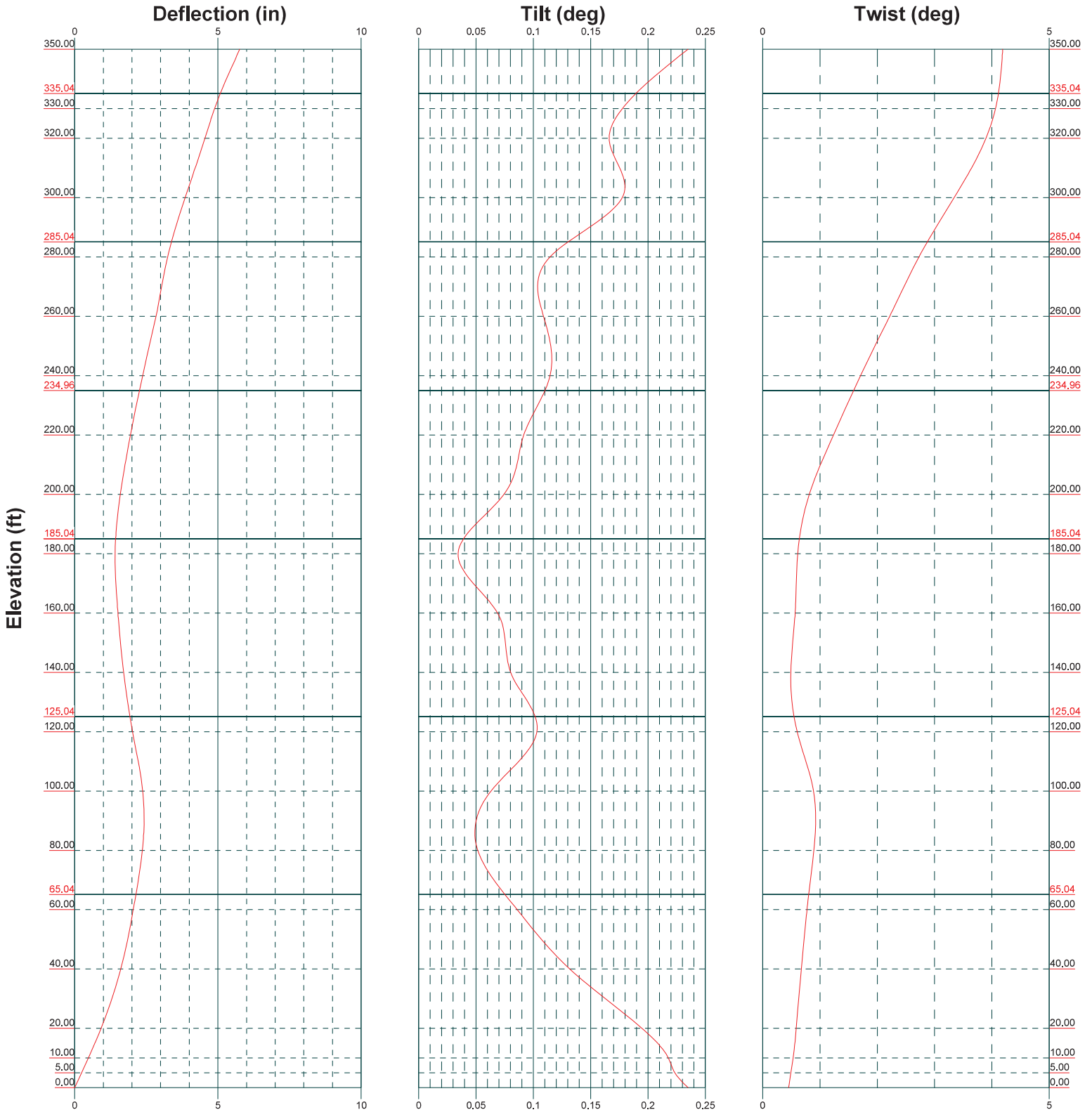
Code: TIA-222-G	Date: 05/12/16	Scale: NTS	
Path: Z:\Pyramid Network Svcs\Iowa State EMS\94 Woodbury Co\2016-05 tower SA\tnx Files\350GT.eri		Dwg No. E-3	

TIA-222-G - Service - 60.00 mph

Maximum Values



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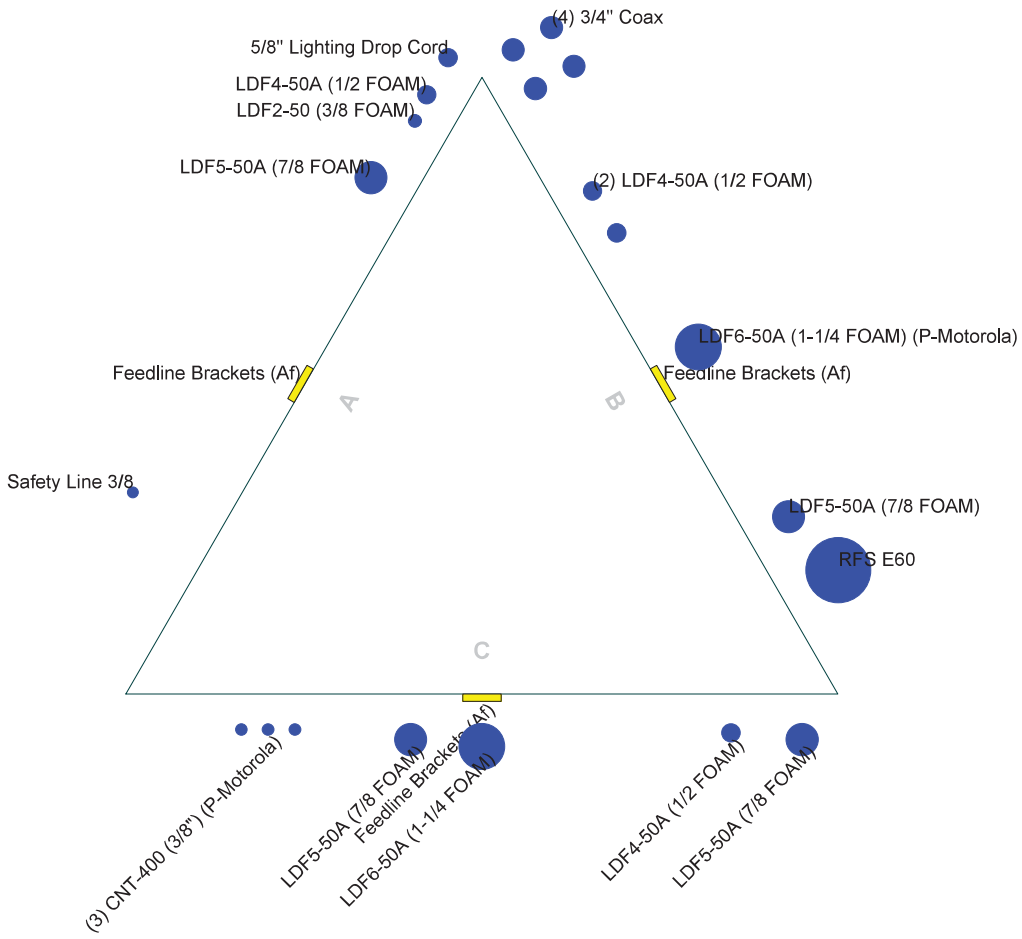
Client: Pyramid Network Services	Drawn by: PEP		App'd:
Code: TIA-222-G	Date: 05/12/16		Scale: NTS
Path: Z:\Pyramid Network Srvc\Iowa State EMS\94 Woodbury Co\2016-05 tower SA\tnx Files\350GT.eri			Dwg No. E-5

Feed Line Plan

Round Flat App In Face App Out Face



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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 Svcs\Iowa State EMS\94 Woodbury Co\2016-05 tower SA\tnx Files\350GT.eri			Dwg No. E-7

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	1 of 18
Project	**Date**
ISICS - 94-Woodbury	08:30:05 05/12/16
Client	**Designed by**
Pyramid Network Services	PEP

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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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

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** ✗

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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ISICS - 94-Woodbury	08:30:05 05/12/16
Client	**Designed by**
Pyramid Network Services	PEP

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 ft	L ft	L_u ft	Kl/r	A in^2	P_u lb	ϕP_n lb	Ratio $\frac{P_u}{\phi P_n}$
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 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	-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] ✔

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] ✔

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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] ✓

ARMOR TOWER ENGINEERING

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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

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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

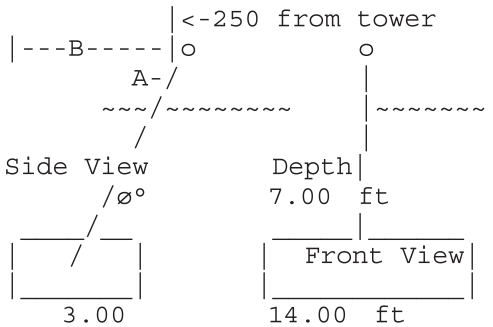
Soil Unit Wt	110	lb/ft^3
Soil Gs:	2.65	
Sub.Soil Wt:	68.5	lb/ft^3
Conc. Wt:	150	lb/ft^3
Rebar Fy:	60000	psi
Conc f`c:	3000	psi

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:
Based on Normal Soils

Load @	8.5	ft
Stress:	6800	psf
Load:	285.6	kip

Check anchor shaft embedment? OK

	Uplift	Horizontal	
Design Loads:	36.2	48.1	kips
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

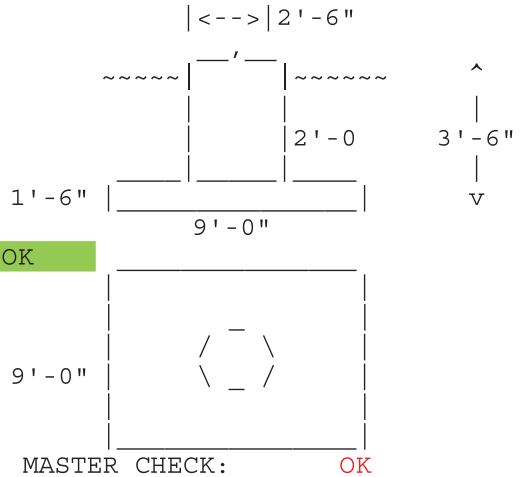
CALCULATIONS
EIA-F Normal soil: TIA 15.5.1
Qu: 1.80 ksf
Qnet: 1.56 ksf
TIA 9.4.1 $\phi_s R_s$: 145.80 kip phi=1.0
Ultimate Stress: 2355 psf Bearing: 126.3% No Good

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

#11c

Date: 02-21-17 Weekly Agenda Date: 02-28-17

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

WORDING FOR AGENDA ITEM:

Approval of Resolution fixing date of March 7th, 2017 for a Public hearing at 4:55 pm for an Agreement for Motorola Solutions Inc. to lease Space within the East Tower site 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 7th, 2017 agenda as a Public Hearing

ACTION REQUIRED / PROPOSED MOTION:

Place this item on the March 7th, 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 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 <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

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.

REMAINDER OF THIS PAGE IS INTENTIONALLY LEFT BLANK

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.

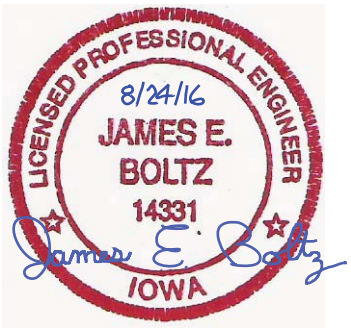
If any co-location customers add any future additional antennas or equipment to this tower, this structure should be re-analyzed at that time.

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)

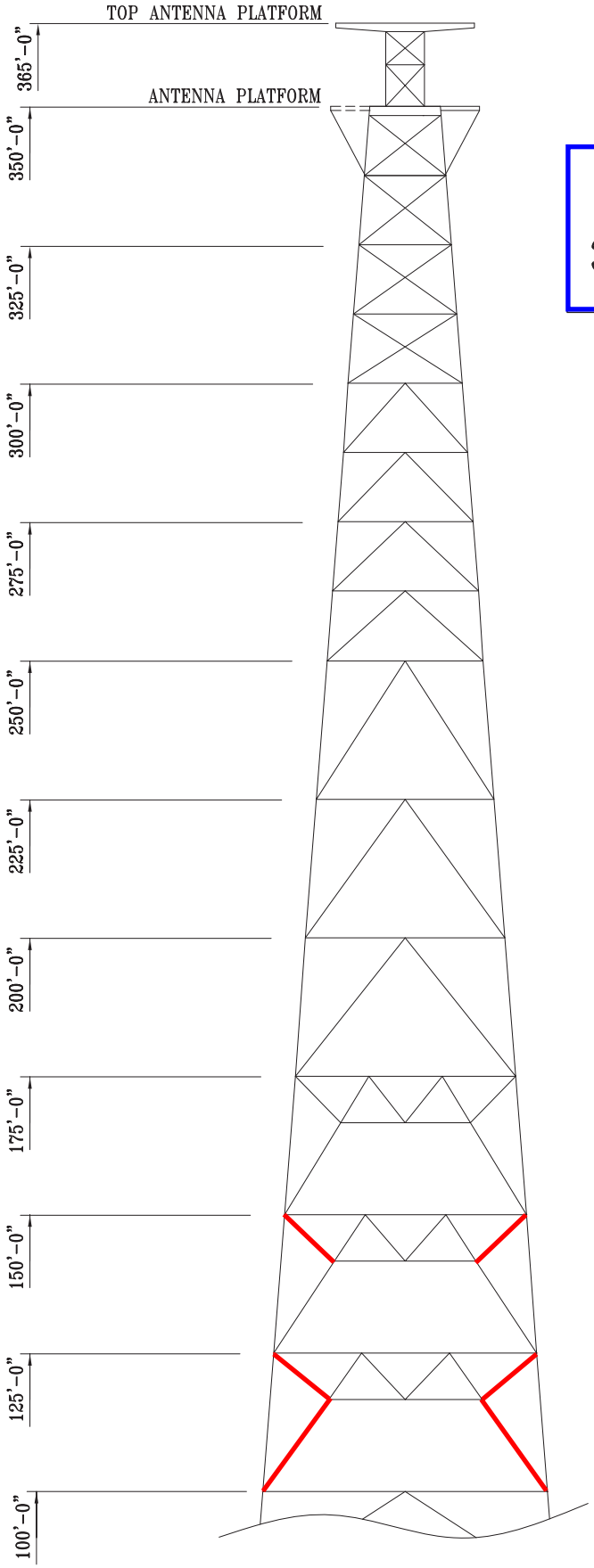
Supplementary Waveguide & Access Ladders
These are added ladders (the main climbing ladder is already included in standard tower loads)

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)

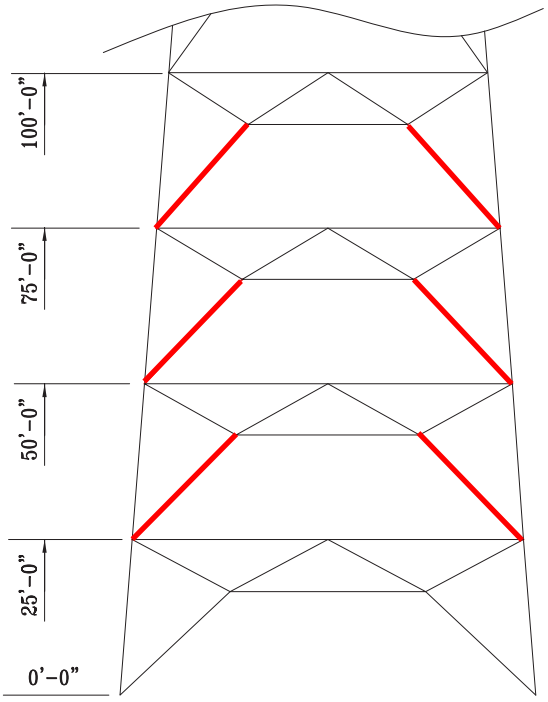
NEW (PROPOSED) ANTENNA CONFIGURATION (Used for Structural Analysis)

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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(Continued)

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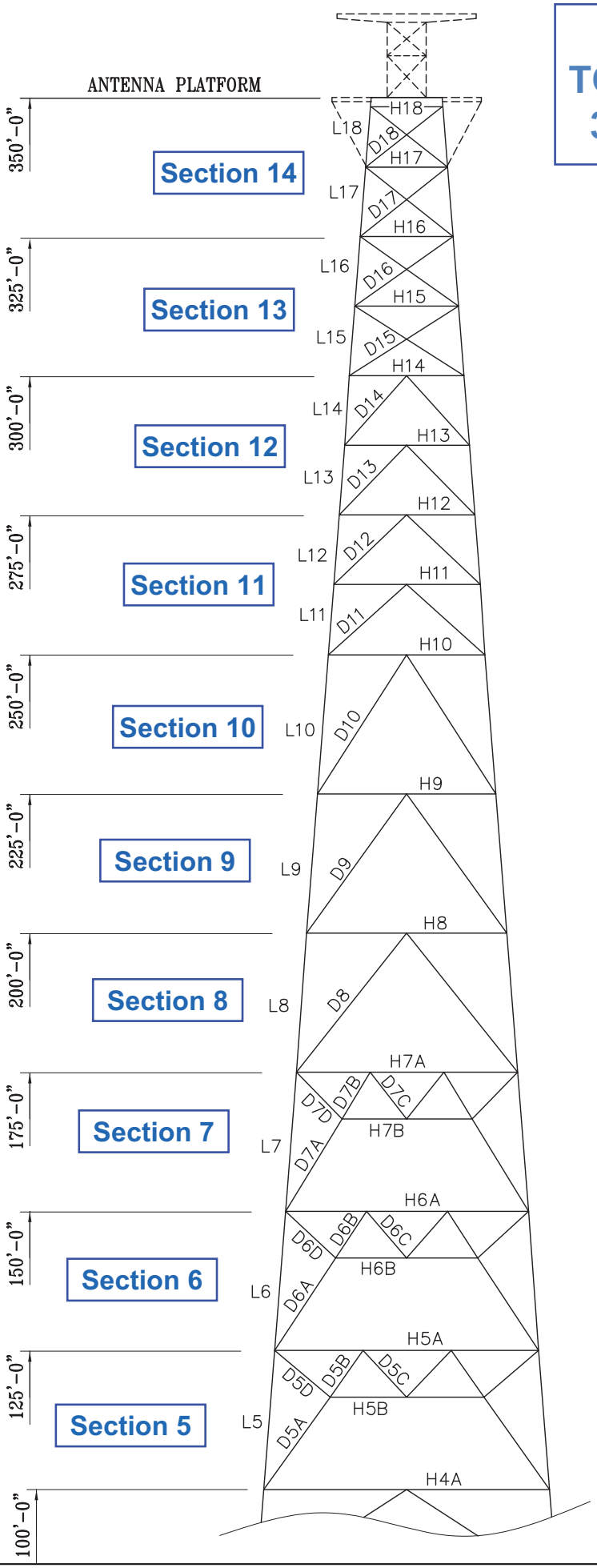
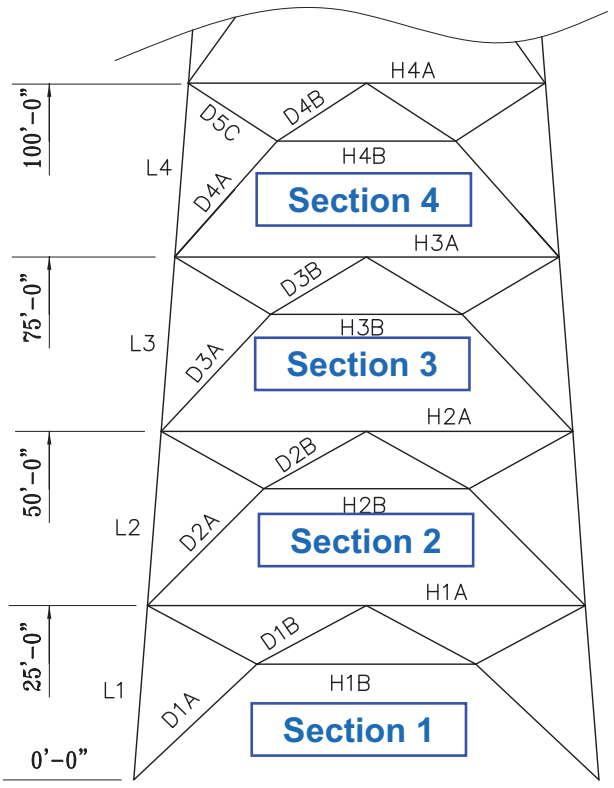
MOVILLE IA
TOWER ANALYSIS MODEL
365-FT TYPE A2 TOWER





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	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. Shear Capacity (kips)	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)	Tens. Conn. Shear Capacity (kips)	Tens. Conn. Bearing Capacity (kips)	Tens. Conn. 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	

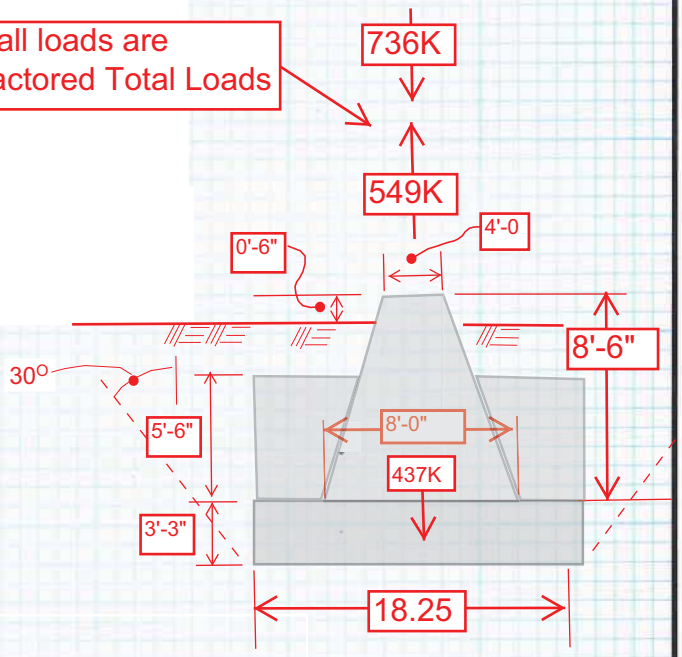
D6C	DIA	DAL	3.5X3X0.3125	36.0	69.99	33.69	g77P	42.238	LOAD 1	125.388	0.000	0.000	0.000	10.954	0	0.000	0	
D6D	**DIA**	**DAL**	**2.5X2X0.25**	**33.0**	**157.06**	**52.76**	**g85Y**	**33.377**	**LOAD 4**	**63.261**	**0.000**	**0.000**	**0.000**	**12.146**	**0**	**0.000**	**0**	**NG**
D7A	DIA	DAS	4X3X0.3125	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

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 x .75 x .75 x 58 KSI = 778 K O.K.

70%

REBAR CHECK (Piers)

18.8 in^2 x (.85) 40 = 639.2 K > 549 K O.K.

86%

UPLIFT CHECK

Concrete

18.25^2 x 8.75 = 2914 ft^3 x .15 = ...437.1 K

Wt of SOIL

[31.2^2 + (31.2' x 18.25') + 18.25'^{2}] 11.0/3 = 6878 ft^3

(6878 ft^3 - 2914 ft^3) x .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 x 2.50 x .10) + 735K (.65) = 998 K

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

O.K. 85%

#12

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

Date: 2/22/17 Weekly Agenda Date: 2/28/17

ELECTED OFFICIAL / DEPARTMENT HEAD / CITIZEN: David Gleiser, RED Director

WORDING FOR AGENDA ITEM:

Authorize Chairman to Sign Home Base Iowa Resolution

ACTION REQUIRED:

Approve Ordinance ☐ Approve Resolution ☑ Approve Motion ☐

Public Hearing ☐ Other: Informational ☐ Attachments ☑

EXECUTIVE SUMMARY:

This item requests the Board of Supervisors to authorize the Economic Development Director & Commission of Veteran Affairs Director to take such further action as may be necessary to carry out the intent and purpose of this resolution. Home Base Iowa is a one-of-a-kind program assisting veterans and transitioning service members. Currently, Iowa's unemployment rate is just under four percent, but businesses need skilled workers. This program helps connect these businesses with qualified veterans looking for career opportunities. Countless resources help veterans and their families with education and in transitioning to a new community with focused support and individuals who want to help. Home Base Iowa's private-public partnership provides a high level of commitment and resources for our veterans, transitioning service members and their families. Vision: Iowa is the "State of Choice" for veterans and transitioning service members for employment, education and/or continued service; and service members are valued in communities which are welcoming, affordable, safe and family-friendly. Mission: Provide veterans and transitioning service members and their families with opportunities and benefits for a successful transition in Iowa — a place to call home.

BACKGROUND:

The Home Base Iowa (HBI) program is an initiative put forward by Governor Terry Branstad and Major General Tim Orr, the Adjutant General of the Iowa National Guard. They recognized an opportunity to honor all veterans and help bridge Iowa's current skills gap. Home Base Iowa was developed as a non-profit, private-public partnership to recruit veterans and transitioning service members and help them find private-sector careers in Iowa. Bob Meyers, CEO of Casey's, and Congressmen Leonard Boswell are co-chairs of the initiative. We have included a video on HBI which helps explain the program.

In 2014, the Iowa Legislature overwhelmingly passed the HBI Act, which provides the following incentives: state income tax exemption on military pensions, $5000 military homeowner assistance, permissive veteran preference in employment, streamlined occupational licensure processes and automatic in-state tuition at public universities and community colleges for qualified veterans, spouses and their dependents.

With widespread community support, Home Base Iowa communities offer Iowa a distinct advantage:
*Designated area may include a city, county or region
*10% of area businesses committed to hire veterans
*Incentives above and beyond incentives in Home Base Iowa Act
*Signage
*Government-level support with key stakeholder involvement: local veteran organizations, businesses, economic development organizations and schools.

FINANCIAL IMPACT:

$0

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:

Authorize the Chairman to sign the Home Base Iowa resolution.

ACTION REQUIRED / PROPOSED MOTION:

Motion to authorize the Chairman to sign the Home Base Iowa resolution.

Approved by Board of Supervisors April 5, 2016.

RESOLUTION NO.

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.

Matthew A. Ung, Chairman

Attest: Patrick Gill, Auditor

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

#13

Date: 02/23/2017 Weekly Agenda Date: 02/28/2017

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

WORDING FOR AGENDA ITEM:

Receive final Communications Workers of America, AFL-CIO (CWA) 2017-2021 contract

ACTION REQUIRED:

Approve Ordinance ☐ Approve Resolution ☐ Approve Motion ☑

Public Hearing ☐ Other: Informational ☐ Attachments ☑

EXECUTIVE SUMMARY:

The tentative CWA FY 2017-2021 contract was approved by the Board on Oct 25,2016. Presented today is the signed final copy of the contract for approval.

BACKGROUND:

The tentative CWA FY 2017-2021 contract was approved by the Board on Oct 25,2016.

FINANCIAL IMPACT:

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 receive the signed CWA contract for the period of FY 2017-2021.

ACTION REQUIRED / PROPOSED MOTION:

Motion to receive the signed CWA contract for the period of FY 2017-2021.

Approved by Board of Supervisors April 5, 2016.

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January 25, 2017

Ed Gilliland
Woodbury County Human Resources Department
Court House, Room 701
620 Douglas Street
Sioux City, IA 51101

Re: Civilian Officers' CWA 7177

Dear Mr. Gilliland:

Enclosed please find the original, executed contract for your safekeeping. Thank you.

Sincerely,

Julie Lamprecht

Julie Lamprecht
Legal Assistant

Enclosure

From: Patrick Gill <pgill@woodburycountyiowa.gov>
To: MISKAFF@woodburycountyiowa.gov
Date: 1/26/2017 12:16 PM
Subject: Re: CWA Corrections contract

Since the contract was delivered to us, the auditor's office should put it on the agenda simply with a motion to receive the signed contract.

Sent from my iPhone

> On Jan 26, 2017, at 11:49 AM, Michelle Skaff <miskaff@woodburycountyiowa.gov> wrote:
>
> Ed, I am checking to see if you have the date that the CWA Corrections contract was approved. The only thing that we located was the approval of the tentative agreement on Oct 25th, so I believe that the final agreement may still need to go to the board.
>
> -Michelle

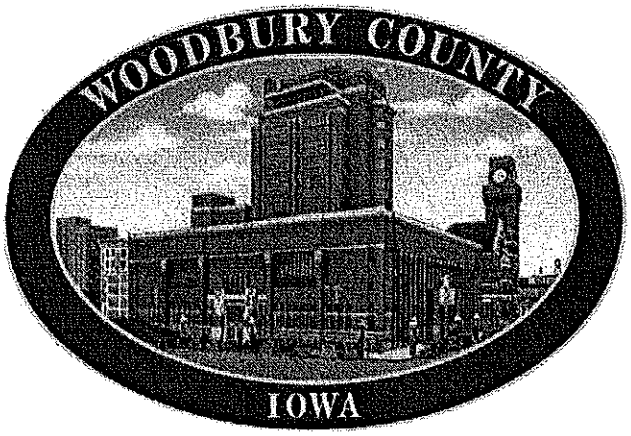
MASTER CONTRACT BETWEEN

WOODBURY COUNTY, IOWA

AND

THE COMMUNICATIONS WORKERS OF AMERICA, AFL-CIO

CIVILIAN OFFICERS' CWA 7177



2017-2021

PREAMBLE

THIS AGREEMENT is executed by Woodbury County, hereinafter called "Employer," and Communications Workers of America, AFL-CIO, hereinafter called "Union."

ARTICLE I
Definitions

Section 1 – A part-time employee is a person who is hired for a period of twenty-four (24) hours per week, or less.

Section 2 – A temporary employee is one who is hired for a period of one hundred twenty (120) consecutive calendar days, or less.

Section 3 – Part-time employees and temporary employee are not included within the bargaining unit, are not entitled to any of the benefits of this Agreement, and shall not become regular employees unless first hired as permanent employees. If a permanent employee has previously attended and successfully completed training at the Iowa Law Enforcement Academy, or a regional training facility certified by the Director of the Iowa Law Enforcement Academy, they will have a probationary period of six (6) months from date of hire. If the employee has not attended the Iowa Law Enforcement Academy or a regional training facility certified by the Director of the Iowa Law Enforcement Academy, they will have a probationary period of one (1) year from their date of hire.

Section 4 – A permanent employee is one who is hired as a permanent employee rather than for a part-time or temporary period or purpose.

Section 5 – A probationary employee is one who has not completed a probationary period as described in Section 3 above. During the probationary period, such employee may be removed or discharged by the Sheriff without cause.

Section 6 – A regular employee is an employee other than a temporary employee or part-time employee who has completed the probationary period.

Section 7 – Except where the context clearly indicates otherwise, the word "employee," when used in this Agreement, shall be limited to mean "regular" employees.

Section 8 – "Act" shall mean the Iowa Public Employment Relations Act as it may be amended from time to time.

Section 9 – Whenever reference is made in this Agreement to the Sheriff, such term shall also include the designated representative of the Sheriff.

Section 10 –The words "Civilian Officers" as used throughout this contract shall refer to court security staff, transport officers, corrections staff **and** electronic monitoring. (The purpose of this section is to recognize the fact that certified peace officers employed by the County are

no longer governed by this contract, so there is no longer a hierarchy of classifications. Nothing in this definition shall be construed so as to confer any rights on any of the civilian officers as defined above, which are not specifically provided elsewhere in this contract).

ARTICLE II
Management Rights and Responsibilities

Section 1 – In addition to all powers, duties, and rights of the Employer established by constitutional provisions, statute, ordinance, charter, or special act, the Union recognizes the powers, duties, and rights which belong solely, exclusively, and without limitation to the Employer, to-wit:

(a) the right to manage the Employer's operations to direct the working force;
(b) the right to hire employees;
(c) the right to maintain order and efficiency;
(d) the right to determine, extend, or curtail the size and location of the Employer's operations and to determine the type and amount of equipment to be used;
(e) the right to assign work, the right to determine methods and material to be used, including the right to introduce new and improved methods or facilities, and to change existing methods and facilities;
(f) the right to create, modify, and terminate divisions and job duties;
(g) the right to transfer promote, and demote employees;
(h) the right to discipline, suspend, and discharge employees for cause;
(i) the right to lay off;
(j) the right to determine the number and starting times of shifts, the number of hours and days in a workweek, hours of work, and the number of persons to be employed by the Employer at any time; and
(k) the right to enforce and require employees to observe rules and regulations set forth by the Employer; provided, however, that these rights will not be used for the purpose of discriminating against any employee because of his membership or non-membership in the Union.

Section 2 – The list of management rights set forth above is not exclusive and it is understood that except as specifically and expressly modified or limited by this Agreement, all of the rights, power, authority, and prerogatives the Employer had prior to this Agreement are retained by and reserved to it and shall remain within its exclusive control.

ARTICLE III
Union Rights and Responsibilities

Section 1 – The Union recognizes its responsibilities as the exclusive bargaining agent of the employees within the bargaining unit and realizes that in order to provide maximum opportunities for continuing employment and fair compensation, the Employer must be able to operate efficiently and at the lowest possible cost consistent with fair labor standards. The Union, therefore, agrees to cooperate in the attainment of the goals and agrees to the following, to-wit:

(a) that it will cooperate with the Employer and support its efforts to assure a full and fair day's work on the part of its employees;

(b) that it will actively combat absenteeism and any other practice which restricts efficient operations of the Employer; and

(c) that it will earnestly strive to improve and strengthen goodwill between and among the County and its employees, the Union, and the public.

Section 2 – The Employer will not interfere with the right of its employees to become members of the Union. The Union will not interfere with the right of the employees to refrain from Union membership. There shall be no discrimination by the Employer or the Union because of membership or non-membership in the Union. The Union agrees that neither it nor any of its officers or agents will engage in any Union activity which will interrupt or interfere with the operations of the Employer.

Section 3 – The Union may appoint a representative to receive, investigate, and process an alleged grievance. If the nature of the grievance involves possible irreparable harm to an employee, the representative may be authorized by the Employer to leave the representative's regular work area for the purpose of investigating a grievance; the representative shall obtain permission to do so from the supervisor, which permission shall not be denied unreasonably.

Section 4 – A representative shall suffer no loss of regular pay for the normal work shift when properly excused by the supervisor. Such time spent investigating grievances shall be kept reasonable and commensurate with the issue involved. Normally, such time will not exceed one-half (1/2) hours.

Section 5 – The name of the representative shall be furnished in writing to the Sheriff and the Human Resources Director, and a representative may not act in that capacity until the name is so furnished. Any change in the designated representative must be promptly reported in writing.

ARTICLE IV
Work Stoppage

Section 1 – The Employer agrees that during the term of this Agreement, it will not engage in any lockout of its employees.

Section 2 – The Union agrees that neither it nor its officers or agents will cause, authorize, induce, encourage, instigate, ratify, condone, or participate in any work stoppage, strike slowdown, or illegal picketing, including a refusal to cross any picket line or any other action which interrupts or interferes with the operations of the Employer.

Section 3 – No employee shall cause, authorize, induce, encourage, instigate, ratify, condone, or participate in any work stoppage, strike, slowdown, or illegal picketing, including a refusal to cross any picket line or any other action which interrupts or interferes with the operations of the Employer.

Section 4 – In the event of a violation of any section above, all legal censures of the Act shall apply.

ARTICLE V
Check Off

Section 1 – The Employer will make monthly deductions from the wages of each employee covered by this Agreement who has provided the Employer with a written authorization therefore for monthly Union dues and initiation fees in the amount certified in such authorizations and remit such moneys to the Headquarters of the Union, Communications Workers of America, AFL-CIO not later than the fifteenth (15) day of the succeeding month. Any such authorization may be revoked by an employee at any time upon thirty (30) days' written notice to the County and to the Union and shall automatically be canceled upon termination of employment. The Union agrees to indemnify and hold the Employer harmless against any claim or liability arising out of the operation of this Article.

ARTICLE VI
Seniority

Section 1 – For the purposes of seniority, employees shall be classified as follows: Civilian Officers. Seniority is defined as an employee's length of continuous service with the Employer from the employee's most recent date of hire within the above classifications. Seniority shall not carry over from one classification to another. When two (2) or more employees have the same date of hire, their seniority shall be determined by the flip of a coin. **For purposes of shift bidding only, Sergeants shall accrue seniority in rank and bid shifts by seniority accrued in rank.**

Section 2 – The seniority records for employees shall be maintained by the Employer and shall be available to the Union upon request. Any protest as to the correctness of the list must

be made in writing to the Employer within thirty (30) days after the list has been given to the Union.

Section 3 – The seniority of an employee shall terminate if the employee quits for any reason, including retirement; is discharged, fails to report to work within ninety-six (96) hours after written notice of recall is mailed to the employee's latest-advised current address; or is laid off for a period exceeding thirty-six (36) months, or his seniority, whichever is lesser.

Section 4 – An employee promoted from the bargaining unit shall retain but shall not continue to accrue seniority.

Section 5 – An employee shall accrue seniority within an employee's classification to be used in case of staff reduction and/or shift bidding.

ARTICLE VII
Procedure for Staff Reduction

Section 1 – For purposes of staff reduction, Civilian Officers shall be classified as follows: Corrections Staff, Court Security Staff, Transport Officers **and** Electronic Monitoring. Layoffs shall take place within these classifications.

Section 2 – In the event the Employer determines that employees in a classification must be laid off, employees in such classification shall be laid off in order of seniority.

Section 3- An employee to be laid off will be notified as soon as possible. A laid-off employee shall advise in writing the Employer of his/her current address during layoff. Recall of employees shall be within all Civilian Officers positions. If the Employer desires to recall an employee, such employee shall be recalled in the inverse order of layoff. Recall rights shall be limited to thirty-six (36) months from the effective date of the employee's layoff.

Section 4 – An employee or employees who are laid off from their classification shall have the option to move to another classification (as defined in Article I, Section 10) and displace the least senior employee. Any employee who is "bumped" using this procedure also has the option to move to another classification and displace the least senior employee. Employees have five (5) working days after they receive notice that their current position is being eliminated or bumped, to notify the employer in writing that they intend to use this bumping procedure. The employee moving to the other classification shall be placed in the closest comparable pay grade that is not higher than their existing pay grade. An employee who uses this bumping procedure, shall have unlimited recall rights, but shall accrue seniority only in the classification they bumped into and their advancement in the new classification shall be controlled by rules governing their new classification.

ARTICLE VIII
Hours of Work

Section 1 – The Employer shall establish and post the hours of work for each shift as determined by the Employer to best provide the services to be rendered and to accommodate the public being served. It is understood and agreed that the operation of the Sheriff's office and the jail are continual, non-stop operations. When an employee is in active pay status, the employee will be paid for 80 hours bi-weekly pursuant to the terms of Article **XX**, Section 1. The employee will also be paid for any daily overtime accrued pursuant to Article IX. This will occur even if the employee, because of shift schedules, has worked less than 80 hours in the bi-weekly pay period. It is agreed that if an employee terminates for any reason and at the time of the termination he/she has been paid for hours not worked, the employee will within thirty days repay Woodbury County for any hours paid but not worked. The regular work day for Court Security Officers, and for other employees who are similarly situated, shall be eight and one-half (8 ½) hours including a half hour (1/2) paid lunch period. It is understood that employees may be required to work during their lunch period.

Section 2 – Each schedule shall provided that an employee is given one (1) weekend off per month or two (2) consecutive days of the employee's choice as approved by the Employer.

Section 3 – It is understood and agreed that the determination of the daily and weekly work schedules for all employees may be changed by the Employer from time to time to meet the Employer's requirements. It is also understood and agreed that the Employer shall have the right to reduce, extend, or maintain the hours of work for any employee, and the employee shall be required to work at times as scheduled by the Employer. The Employer shall give the Union as much advance notice as possible of any major change of working condition, but in any event the Employer shall give the Union at least ten (10) days' such notice, except in the case of an emergency. Emergency for purposes of this section shall be defined as the imminent danger to life, limb, or property in which summoning of aid is instituted for the preservation thereof and shall include a jail shakedown. An emergency shall not be construed to facilitate involuntary transfer to work assignments.

ARTICLE IX
Overtime & Holidays

Section 1 – Overtime is all time properly authorized or approved by the Employer and worked by the employee in excess of the normal daily work schedule as posted. It shall be determined in units of one-quarter (1/4) hour or more of time worked in excess of the regularly-scheduled hours of work.

Section 2 – All overtime work shall be held to a minimum consistent with efficient operation and provision of essential services. When overtime work is required, each employee is expected to be available for such assignment.

Section 3 – Overtime work shall be paid at one and one-half (1 ½) times the employee's regular hourly rate and shall be included in the paycheck for the period when it is worked.

Upon mutual agreement between an employee and the Sheriff, the Employer may grant time off at the rate of one and one-half (1 ½) times the overtime hours worked by the employee in lieu of overtime pay.

Section 4 – An employee who appears in court pursuant to a subpoena or order when not regularly scheduled to work shall receive a minimum of three (3) hours of paid overtime, or three (3) hours of compensatory time, at their discretion.

Section 5 – The provisions of this Article shall be construed and implemented consistent with the provisions of the Fair Labor Standards Act.

Section 6 – Subject to and in accordance with the provisions of this article, all regular and probationary employees shall be granted holiday pay or a working day off for the following ten (10) holiday's: Memorial Day, Independence Day, Labor Day, Veterans' Day, Thanksgiving Day, Friday after Thanksgiving Day, either the day before Christmas Day or the day before New Year's Day, Christmas Day, New Year's Day and Martin Luther King's Birthday.

Section 7 – Shift employees are employees who work in a classification where it is required that there be employees on duty seven (7) days per week, twenty-four (24) hours per day. For jailer shift employees, the holiday will begin at 8:00 a.m. on the day of the holiday and shall end at 8:00 a.m. twenty-four (24) hours later.

Section 8 – If a shift employee is scheduled to work a holiday, that employee will receive two and one-half (2 ½) times the regular hourly rate of pay normally paid to said employee. However, upon mutual agreement between the employee and the Sheriff, the employee may elect to receive pay at one and one-half (1 ½) times the hourly rate and to receive one (1) working day of compensatory time.

Section 9 – If a holiday falls on a shift employee's regular-scheduled day off, that employee shall be granted one (1) working day's pay at the employee's regular rate of pay, **or be allowed to bank those hours into their comp bank if it does not exceed the maximum allowed hours in their comp bank.**

Section 10 – For non-shift employees, when one of the aforementioned holidays falls on a Saturday, the preceding Friday will be observed as a holiday, and if any aforementioned holiday falls on a Sunday, the following Monday will be observed as the holiday.

Section 11 – In order to be eligible for receiving holiday pay or for obtaining a working day off, an employee, unless excused by the Sheriff, must report for work on the last scheduled workday before the holiday and on the first scheduled workday after the holiday. No employee who has been laid off or is under suspension will be eligible for holiday pay or for a working day off.

Section 12 – Total compensatory time may be accumulated to a maximum of one hundred sixty (160) hours. Total compensatory time is calculated by adding regular compensatory

time and what has been called holiday compensatory time (Section 8 above). After an employee has accumulated one hundred sixty (160) hours of total compensatory time, all overtime work shall be compensated in cash. An employee may accumulate and carry forward a maximum of one hundred sixty (160) hours of total compensatory time from one contract year to the next contract years. An employee whose current total compensatory time exceeds one hundred sixty (160) hours will not be allowed to accrue additional total compensatory time until their total compensatory time is below one hundred sixty (160) hours.

ARTICLE X
Vacations

Section 1 – Subject to and in accordance with the provisions of this article, paid vacation shall be granted to employees after continuous active service pursuant to the following schedule:

(a) After an employee has been in the continuous active service of the Employer for one (1) year as of the anniversary of the employee's most recent date of hire, the employee shall be given forty (40) hours vacation with pay at the employee's regular hourly rate.

(b) After an employee has been in the continuous active service of the Employer for two (2) years or more as of the anniversary of the employee's most recent date of hire, the employee shall be given eighty (80) hours vacation with pay at the employee's regular hourly rate.

(c) After an employee has been in the continuous active service of the Employer for six (6) years or more as of the anniversary of the employee's most recent date of hire, the employee shall be given one hundred twenty (120) hours vacation with pay at the employee's regular hourly rate.

(d) After an employee has been in the continuous active service of the Employer for thirteen (13) years or more as of the anniversary of the employee's most recent date of hire, the employee shall be given one hundred sixty (160) hours vacation with pay at the employee's regular hourly rate.

(e) After an employee has been in the continuous active service of the Employer for twenty (20) or more as of the anniversary of the employee's most recent date of hire, the employee shall be given two hundred (200) hours vacation with pay at the employee's regular hourly rate.

Section 2 – The purpose of a vacation is to enable the employee to enjoy periodic rest from the employee's regular job so that the employee may return to work refreshed. The vacation year will be the individual employee's anniversary date to anniversary date. Accordingly:

(a) Employees may carry over a maximum number of vacation days which is equal to the amount of vacation accrual earned in the anniversary year just ended. Any

vacation hours which exceed the maximum allowable carry over shall be deleted as of the employee's anniversary date if they are not used.

(b) No employee shall be entitled to vacation pay in lieu of vacation.

(c) An employee whose services are terminated shall receive any vacation earned and not previously taken. Such vacation shall be taken before the employee is dropped from the payroll provided that no vacation may be earned on a pro rata basis until after the employee has worked the employee's first full year.

Section 3 – So far as possible, each vacation will be granted at the time selected by the employee so long as it does not conflict with the operation of the Employer, provided that the final right to allot vacation periods and the right to change such vacation periods is reserved exclusively to the Employer acting by and through the Woodbury County Sheriff.

Section 4 – In the event that a holiday falls within an employee's vacation period, such day will not be counted as a day of vacation.

ARTICLE XI
Leaves of Absence

A. Sick Leave

Section 1 – Sick leave shall be used for personal illness and injury, including on-the-job injury or disability, subject to the provisions set out hereinafter. If an employee is injured while gainfully employed by a different employer who carried or is required to carry Worker's Compensation insurance, the employee may use accumulated sick leave to supplement payments from Worker's Compensation insurance. To the extent the employee has accumulated sick leave, the employee may receive the difference between the Worker's Compensation benefits the employee receives while unable to work and the amount the employee would have been entitled to as gross pay under this contract if the employee had been able to work.

Section 2 – Employees shall be granted ten (10) hours of sick leave per month and shall have the right to accumulate unused sick leave up to a maximum of six hundred forty (640) working hours. An employee who has accumulated and maintains 640 hours of sick leave will be allowed to convert sick leave earned during the year to vacation at the rate of 4 hours of sick leave for 1 hour of vacation. An employee will cease to be eligible for this conversion any time their accumulated sick leave falls below 640 hours.

Section 3 – Except in cases of serious confining illnesses excused by the Sheriff, sick leave will not be paid on the working day immediately preceding or following a holiday.

Section 4 – The Employer reserves the right to require a physician's signature for any absence due to sickness.

Section 5 – To be eligible for sick leave payment, an employee shall notify the Employer as soon as possible but in any event prior to the starting time of the employee's workday. This notice may be waived if the Employer determines that the employee could not reasonably be expected to comply with this requirement because of circumstances beyond the control of the employee.

Section 6 – No employee is entitled to compensation for unused sick leave time except to the extent specified in this section. Termination of service shall terminate any and all obligation of the Employer in connection with unused sick leave time. An employee who is retiring and has a minimum of 25 years of employment with the Woodbury County Sheriff's Office will be paid 15% of his/her accumulated sick leave up to a maximum of Three Thousand Dollars ($3,000.00). **Any retiring employee who has a minimum of 20 years of employment with the Woodbury County Sheriff's Office and accumulated sick leave of 500 or more hours may elect to have the County provide his/her personal insurance for a period of one year from the date of retirement, in lieu of cash payout of up to three thousand dollars ($3,000.00). Should the employee elect family coverage, the employee will be responsible for the difference in cost between the personal, single coverage and the cost of family coverage.**

Section 7 – During the first six calendar months of an on-the-job injury or disability incurred or suffered in the course of employment with the Woodbury County Sheriff's Office, an employee shall receive his or her regular pay as follows: the Employer shall pay the employee the difference between the Worker's Compensation benefits and the amount which the employee would have been entitled to as gross pay for the same period under the contract if there had been no Worker's Compensation benefit. No payments by the Employer under this section shall be charged against an employee's sick leave for this six month period.

Following the first six calendar months of an on-the-job injury or disability, sick leave may be used to the extent it is available. During a period equivalent to the employee's accumulated sick leave, the Employer shall pay the employee the difference between the Worker's Compensation benefits and the amount which the employee would have been entitled to receive as gross pay for the same period under the contract as if there had been no Worker's Compensation benefits, and sick leave shall be reduced accordingly. Proper deductions shall be taken from the amount paid to the employee by the Employer.

During any statutory waiting period, an employee may use sick leave to the extent it is available.

B. Funeral Leave

Section 1 – An employee will be granted up to three (3) days funeral leave to attend the funeral of the employee's spouse, children or step-children, parents or step-parents, mother-in-law, father-in-law, brother, sister, brother-in-law, sister-in-law, grandparents, grandchildren, or permanent member of the immediate household.

Section 2 – In special cases involving unusual travel or other unusual circumstances, the Sheriff may grant additional leave without pay.

Section 3 – The Sheriff may allow an employee one (1) day of funeral leave with no loss of compensation to attend the funeral of members of the family not included above. He may also allow an employee the necessary time off without pay to attend the funeral of a fellow employee or of a close family friend.

C. Family Leave

An employee may be granted up to 120 hours of family leave per contract year chargeable to accumulated sick leave when it is necessary for them to provide care for a spouse, child or parent with a serious health condition. The employee requesting family leave will be required to provide a written statement of the reason family leave is needed and may be required to provide a physician's statement concerning the illness or injury of the spouse, child or parent. This leave shall be non-accumulative. If the leave is granted it may be treated as leave time under the Family Medical Leave Act. However, the Board of Supervisors shall not be bound by any of the terms, conditions or interpretations of the Family Medical Leave Act in deciding whether or not to grant the leave. The decision to grant or deny this leave is in the sole discretion of the Board of Supervisors or its designee after full consultation with the Sheriff. Any leave request which is going to be denied by the designee of the Board shall be presented to the Board of Supervisors and the employee will be invited to present his/her situation to the Board. The decision of the Board of Supervisors is final and is not subject to a grievance under the terms of this contract.

D. Personal Day

Section 1 – Each employee will receive two personal days per contract year. Personal days will be scheduled by mutual agreement between the employee and the Department. Personal days shall not be carried over from contract year to contract year, nor shall they be granted, if unused, to any employee upon retirement, termination or discharge. No employee will be permitted to work his/her personal day.

E. Jury Duty and Court Appearance

Section 1 – Employees shall be granted a paid leave of absence for assigned work time lost when called to serve on jury duty. Such employees shall be paid their straight time hourly rate for all lost time up to forty (40) hours per week. An employee who is scheduled to work the 11 p.m. to 7 a.m. shift, shall be given that shift off so the employee can sleep prior to jury duty the next day. An employee shall submit certification of jury service to the Employer, and shall assign to the employer that part of all remuneration received for jury service which can reasonably be described as duplicate compensation. When released from jury duty during working hours, the employee shall report to work within one (1) hour, unless there is less than an hour remaining in the working day.

ARTICLE XII
Adjustment of Grievances

Section 1 – A grievance is defined as a dispute between an employee and the Employer concerning the interpretation, application, or violation of the express terms of this Agreement. Should an employee have a grievance, it shall be adjusted in the following manner:

Step One: An employee who claims a grievance shall present such grievance orally, with or without this steward, to his supervisor within five (5) working days after the occurrence upon which the grievance is based. The supervisor shall give his oral answer to the grievance within three (3) working days after the grievance was presented to him.

Step Two: If the grievance is not settled in Step One, it may be appealed by the employee and his steward within five (5) working days after the answer of the supervisor. The grievance shall be reduced to writing, signed by the aggrieved employee and the steward, and shall state the facts and the specific section of this Agreement alleged to have been violated and the remedy or relief sought. The written grievance shall be promptly submitted to the Sheriff or his designated representative who shall **give** his answer in writing to the employee and steward within five (5) working days after the grievance has been presented to him.

Step Three: If the grievance is not settled in Step Two, it may be appealed to arbitration by the Union by written notice of a request for arbitration submitted to the Sheriff within seven (7) calendar days after the receipt of the Employer's Step Two answer. Said written notice shall be signed by a representative of the Union, shall state the facts and the specific section of this Agreement which is to be considered by the arbitrator, and the remedy or relief sought. When a timely request has been made for arbitration, a representative of the Employer and a representative of the Union shall select a mutually-agreeable arbitrator to hear and determine the grievance. If the representatives of the parties are unable to agree upon the selection of an arbitrator within ten (10) calendar days of the Employer's receipt of the arbitration notice, the parties shall jointly request the Federal Mediation and Conciliation Service to submit a list of five (5) arbitrators. Upon receipt of the list, the parties' designated representatives shall determine by lot the order of elimination and thereafter each shall, in that order, alternatively strike a name from the list, and the fifth and remaining person shall act as the arbitrator.

Section 2 – The failure of an employee, the Union, or its representative to appeal a grievance to the next step within the applicable times specified above shall bar an employee, the Union, or its representative from appealing the grievance further, and any such grievance shall be considered as settled.

Section 3 – The failure by an employee, the Union, or its representative to process a grievance within the applicable times specified above shall bar an employee, the Union, or its representative from further pursuit of the grievance, and any such grievance shall be

considered as settled. The failure by the Employer to reply within the applicable times specified above shall be deemed a denial of the grievance which may then be appealed to the next step.

Section 4 – An arbitrator selected pursuant to the provisions of Step Three shall schedule a hearing on the grievance and, after hearing such evidence as the parties desire to present, shall render a written opinion and award. The arbitrator shall have no authority to hear or determine wage or fringe benefit adjustments nor to add to, subtract from, modify, or amend any terms of this Agreement. The arbitrator shall have no authority to substitute his discretion for that of the Employer in any matter reserved to the Employer by law or by the terms of this Agreement. A decision of the arbitrator, within the scope of his authority, shall be final and binding upon the Employer, the Union, and the aggrieved employee(s). The arbitrator may not hear more than one grievance unless the presentation of more than one grievance is mutually agreed to by the Employer and the Union.

Section 5 – The arbitrator shall not have power to accept or decide any grievance which involves a matter within the jurisdiction of the Civil Service Commission (Iowa Code Chapter 341A).

Section 6 – The Employer and the employee will share equally any joint costs of the arbitration procedure, such as fees and travel expenses of the arbitrator, and the cost of a hearing room and transcript. Any other expenses shall be paid by the party incurring them.

ARTICLE XIII
Discipline/Discharge

Section 1 – The Union recognizes the right of the employer to suspend discharge or take other appropriate disciplinary action for just cause. The employer agrees to use progressive discipline where appropriate.

Section 2 – The intention to take disciplinary action shall be reported to the Director of Human Resources prior to taking any action. The Director of Human Resources shall inform the Union prior to any disciplinary action being taken. However, the employer may immediately suspend an employee with pay while an investigation is pending. Any disciplinary action may be processed as a grievance through the grievance procedure. A grievance based on a suspension without pay or discharge shall begin with the second step of the grievance procedure. Grievances of all other disciplinary actions shall begin with the first step of the grievance procedure.

ARTICLE XIV
Insurance

A. Medial and Hospital Insurance

Section 1 – The Employer shall pay the full cost of the employee's personal premium for Hospital and Medical Care Insurance with the exception that the employee shall pay 20% of all increases in premium which become effective after July 1, 2008.

Section 2 – The employee may elect to cover the employee's family, and the Employer will pay one hundred percent (100%) of the premium for said family coverage with the exception that the employee shall pay 20% of all increases in premium which become effective July 1, 2008.

Section 3 – Coverage of an employee will commence at such times as may be set out in the policy, and an employee will be covered only in accordance with and to the extent provided under the terms of the policy.

Section 4- The Hospital and Medical Care Insurance provided herein shall be a comprehensive plan of insurance which shall contain the following deductibles and maximum out-of-pocket provisions.

An employee's actual out-of-pocket expense per calendar year shall be limited as follows:

Deductible	The first $250 of covered expenses for single coverage The first $500 of covered expenses for family coverage
	Coinsurance: not more than 80/20 of covered expenses up to the relevant out-of-pocket maximum. Including the single deductible the maximum out-of-pocket for single coverage will be $750 and including the family deductible the maximum out-of-pocket for a family will be $1250

The plan will provide for an Office co-pay of $20 per visit.

Preventive healthcare benefits will be paid in accordance with existing federal guidelines. Preventive benefits will include yearly routine physicals, including mammogram, pap smear, prostate exam, blood tests and other routine tests which can be done in the doctor's office.

B. Life Insurance

Section 1 – The Employer shall, at no cost to the employee, maintain a life insurance policy for each employee in the face amount of not less than Ten Thousand Dollars ($10,000.00).

Section 2 – The employee may, to the extent permitted by the insurance company and in accordance with the requirements of the insurance company, purchase additional life insurance at the employee's cost, which shall be deducted from the employee's wages.

Section 3 – Coverage of an employee will commence at such times as may be set out in the policy, and an employee will be covered only in accordance with and to the extent provided under the terms of the policy.

C. Long-Term Disability

The Board will provide a long-term disability insurance plan to all regular full-time employees and regular part-time employees, to the extent permitted by the policy. This long-term disability insurance plan shall have a calendar day waiting period not more than 90 days and shall pay benefits at sixty-six and two-thirds (66 2/3) percent of the employee's weekly gross pay, excluding overtime, up to a maximum monthly benefit of $2,500.00. The Board shall pay the full premium for this disability insurance.

D. Dental Insurance

Section 1 – Employer will pay the cost of dental insurance for each employee.

Section 2 – Employees may pay the premium to add spouse and/or children to the dental plan.

Section 3 – The dental plan will provide the following general coverage:

Deductible	Single $25 Family $75
Diagnostic and Preventive Services	100% (Deductible does not apply)
Routine and Restorative Services	80% (After deductible)
Major Restorative Care	50% (After deductible)
Contract Maximum per member per year	$1500.00

Pretreatment: Some services provided under the Routine and Restorative and/or Major Restorative Care require your dentist to submit a proposed treatment plan before beginning treatment.

Section 4 – The Employer reserves the right to unilaterally change carrier or self-insure while maintaining the basic benefits outlined in Section 3.

E. Flex Benefit Plan

The Board will provide the employees with access to a Flex Benefit Plan. Employees will be able to use pre-tax dollars for any use sanctioned by federal law. Current uses include but are not necessarily limited to deductibles, coinsurance and premium payments for group

insurance, vision care, glasses and dependent care. This plan is subject to revision if federal laws governing flex benefits are revised.

ARTICLE XV
Health and Safety

Section 1 – The Employer agrees to continue making reasonable provisions for the health and safety of its employees during the hours of employment. The Union and the employees will extend their complete cooperation to the Employer in maintaining employee policies, rules, and regulations as to health and safety and in assisting the Employer in fulfilling State and Federal requirements.

Section 2 – All new employees, upon initial employment, shall provide satisfactory medical evidence of physical fitness to perform assigned duties.

Section 3 – Any employee operating a motor vehicle shall immediately report any defect in said vehicle, or the absence of any equipment or supplies in said vehicle, to the shift commander.

Section 4 – Employees shall use equipment furnished by the Employer properly and shall return to the Employer all equipment issued to the employee at such time as the employment is terminated.

ARTICLE XVI
Supplemental Pay

A. Shift Differential

Section 1 – Any employee whose regular shift begins after 1:30 p.m. and ends before 11:00 p.m. (mid-shift employees), in addition to their regular compensation, shall be paid a shift differential of fifty cents ($.50) per hour for each such regular hour worked.

Section 2 – Any employee whose regular shift begins after 9:00 p.m. and ends before 7:00 a.m. (night-shift employees), in addition to regular compensation, shall receive a shift differential of forty cents ($.40) per hour for each such regular hour worked.

Section 3 – **Any employee assigned to 12 hour shifts whose regular shift begins after 6:00 p.m. and ends before 6:00 a.m., in addition to their regular compensation, shall be paid a shift differential of fifty cents ($.50) per hour for each such regular hour worked.**

Section 4 – Any employee who is assigned to the power shift, in addition to regular compensation, shall be paid a shift differential with an equal number of hours compensated under Section 1 and Section 2 of this Article.

Section 5 – This shift differential shall not change the basic hourly rate of pay for computing overtime, callback, or court appearance pay and shall not be paid as additional compensation for overtime, callback, or court appearances.

B. Active Standby Pay

Section 1 – In addition to his or her regular or other compensation, the employee designated as the Sheriff's Identification Officer, and employees who are required to carry a pager or who are required to make themselves available for duty during their nonworking hours shall receive Seven and 50/100 ($7.50) for each day or part of a day, in excess of his or her normal work hours, that he or she is required by the Sheriff to be on active standby. If the Identification Officer is recalled by a superior to work after the completion of his/her regular workday, he/she shall receive a minimum of two (2) hours pay.

C. Personal Property Reimbursement

Section 1 – Personal property, required to be carried on duty, shall be repaired or replaced at a reasonable price as determined by the Sheriff in the event of destruction or damage through performance of duty. In the case of watches, the reasonable price shall not exceed $100.00 per incident. Clothing items, for Deputy Sheriff's employees who are required to wear civilian attire, which are damaged in the line of duty shall be replaced or repaired. Method of repair or replacement is in the sole discretion of the Sheriff and is not subject to grievance.

D. Mileage

Section 1 – Process Servers will not be allowed to use personal vehicles and will not be reimbursed for mileage. All other employees who are required to use their personal vehicles will be compensated at the mileage rate set by the Woodbury Count Board of Supervisors.

E. Compensation for Acting Shift Supervisor

Section 1 – When a Sergeant or Shift Supervisor is not scheduled to work their assigned shift or if they do not complete their assigned shift and it is necessary for a subordinate to act as a Shift Supervisor, the acting Shift Supervisor will be compensated at the rate of the Sergeant's hourly wage for the shift or any portion of the shift worked. The appointment or removal of jail corporals shall not be subject to the grievance procedure.

F. Field Training Pay

Section 1 – Officers who are assigned field training duties for probationary officers shall receive additional compensation consisting of 10% of their hourly rate of pay. The hours that an officer assigned field training duties is eligible for field training pay shall be decided by the Sheriff or his designee. This determination by the Sheriff or his designee will not be subject to grievance under the terms of this contract.

G. Uniform Maintenance Allowance

Section 1 – Officers will be paid once a year, by a check separate from payroll, a uniform maintenance allowance in the amount of $425.00.

H. Instructor Pay

Section 1 – Employees who are certified instructors shall receive additional compensation consisting of 5% of their hourly rate of pay for the hours that they are actually teaching in their area of certification. The hours that are eligible for this supplemental pay shall be determined by the Sheriff or his designee.

ARTICLE XVII
Transfer Procedures

Section 1 – For purposes of transfer, employees shall be classified as Civilian Officers.

Section 2 – On July 1 of each year, the Employer shall post a list of all assignments in each classification and shall designate the shifts during which such assignments are to be performed. Employees with two (2) years or more seniority shall then have ten (10) calendar days to designate their choice of shift assignment within their classification. In the case of a conflict between designated choices, seniority shall govern. At the end of said ten (10) calendar day period, the Employer shall notify all employees of their shift assignments on the basis of the employees' existing assignments and designated choices. **Employees will be able to bid for shift and team assignments by seniority.**

Section 3 – It is understood and agreed that the transfer procedures set out in this article shall not preclude the Sheriff from requiring that no less than two (2) female Correctional Officers (jailers) be assigned to each shift. If there are less than two (2) female jailers or if there are no identification officers on a shift, the Sheriff shall have the right to involuntarily transfer the least senior female jailer(s) or identification officer to that shift.

Section 4 – Civilian Officers will be allowed the opportunity to request special assignments in transportation, court security and electronic monitoring. Civilian Officers seeking these assignments must meet the following eligibility requirements:

- Must have completed a minimum of **six (6)** years of continuous service as a Civilian Officer;
- Must be a full-time, permanent employee (part-time and temporary employees are defined in Article I, Sections 1 and 2, are not eligible); and
- Must comply with Woodbury County Sheriff's Office General Orders Firearms Policy Number 123B (which policy is subject to change as determined by the Sheriff or his designee, in his sole discretion); and
- **Must have carried their weapon in the normal course of their duties for the overwhelming majority of their shifts for three years prior to applying for a specialty assignment.**

Applications for special assignments will be accepted in even numbered years and must be submitted by July 1st of the calendar year in which assignment is requested.

Only **two** qualified applicants will be accepted in each application year. Males must be replaced by males and females must be replaced by females. Appointments will be effective on August 1st of the year in which the application is submitted. **Court security replacement can be either male female by the Sheriff's choice.**

The determination of which applicant to select and which Civilian Officer to replace will be made by the Sheriff or his designee, without regard to seniority.

ARTICLE XVIII
General Conditions

Section 1 – This Agreement shall be construed under the laws of the State of Iowa. Whenever the context of this Agreement permits, the masculine gender includes the feminine, the singular number includes the plural, and the reference to any party includes its agents, officials and employees.

Section 2 – In the event any provision of this Agreement is held invalid by any court of competent jurisdiction, the said provision shall be considered separable and its invalidity shall not in any way affect the remaining provisions of this Agreement.

Section 3 – The Union and the Employer acknowledge that during negotiations which resulted in this Agreement, each party had the opportunity to make demands and proposals with respect to all areas of collective bargaining and that the whole understanding arrived at after the negotiations is set forth in this Agreement.

Section 4 – Whenever in this Agreement it shall be required or permitted that notice or demand be given or served by either party, such notice or demand shall be given or served if made in writing addressed as follows:

To the Employer:	Woodbury County Board of Supervisors Woodbury County Courthouse Sioux City, Iowa 51101
and to the Union:	CWA Bonnie Winther, CWA Representative 6200 Aurora Ave, Suite 503E Urbandale, IA 50322

ARTICLE XIX
Personnel Transactions

Section 1 – An employee shall be entitled to review the employee's own personnel file upon request to the Sheriff.

Section 2 – An employee shall be given copies of all documents placed in the employee's personnel file within ten (10) days of the time any such document is placed therein.

Section 3 – An employee shall have the right to submit for insertion in the personnel file a written explanation of any adverse material placed in the employee's personnel file. The written explanation shall be submitted within ten (10) days after the employee received the material.

Section 4 – "Personnel file" referred to in this article refers to those personnel files maintained by the Sheriff and by the Human Resources Director and does not refer to the "service records" kept by the Woodbury County Civil Service Commission.

Section 5 – The Employer shall not submit to the County Civil Service Commission any material regarding an employee without first submitting the contents of such material to the employee involved. The employee shall then have five (5) working days to submit a written explanation of such material to the Employer which will be included with the material submitted to the Civil Service Commission.

Section 6 – In the event the employee discovers exculpatory or mitigating evidence which was not known at the time a written explanation was submitted pursuant to sections 3 or 5 of this article, nothing in sections 3 and 5 will bar the employee from submitting further written explanation after the time periods set out in those sections.

Section 7 – Employees whose wages are established by the Board of Supervisors (this excludes, for example, employees of the County Conservation Board and the District Health Department) who become employees of the Sheriff's Office shall retain their accrued sick leave and vacation time, provided there has been no break in their employment with the County. No credit shall be granted for length of service with respect to wages or longevity pay.

ARTICLE XX
Compensation

Section 1 – Employees shall be paid on a bi-weekly basis. Paydays shall be on Friday.

Section 2 –

- Class 30 – 36 months
- Class 237 – 60 months
- Class 161 – 96 months
- Senior 97 –143 months
- Master 144 months

Section 5: Corrections and Court Security Officers (Civilian Officers) who meet one of the following conditions shall be designated Senior Corrections/Court Security Officers and shall receive additional pay as specified in Appendix A-1, A-2.

(A) 4 years of service as a Woodbury County Corrections and/or Court Security Officer plus a BA or BS degree.

(B) 6 years of service as a Woodbury County Corrections and/or Court Security Officer plus an AA degree.

(C) 8 years of service as a Woodbury County Corrections and/or Court Security Officer.

Senior Corrections/Court Security Officer pay shall begin with the first pay period following the satisfaction of one of the conditions set out above. Corrections/Court Security Officers who believe they are eligible to receive Senior Corrections/Court Security Officer pay based upon Condition A or B shall submit evidence of satisfaction of the academic requirement to the Human Resources Department.

ARTICLE XXI
Duration and Signature

Section 1 – This Agreement shall be effective July 1, **2017,** and shall continue through June 30, **2021**, for all articles, provisions, and appendices.

Section 2 – This Agreement shall continue in effect from year to year thereafter unless one of the parties Seeks modification thereof. The party seeking modification of the Agreement shall cause a written notice to be served on the other party by September 1st of the year prior to the time when modification is desired. The notification in writing is jurisdictional, but after said notice is timely served by any party, either party may thereafter offer any modification of the Agreement.

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be executed by their duly-authorized representatives this **12th** day of **October, 2016.**

WOODBURY COUNTY, IOWA

By: _____
Chairman, Board of Supervisors

COMMUNICATIONS WORKERS OF AMERICA
(Civilians)

By: _____
CWA Representative

By: _____
CWA Local 7177 President

By: _____
Bargaining Committee

By: _____
Bargaining Committee

By: _____
Bargaining Committee

By: _____
Bargaining Committee

Terms in bold are not intended to have additional emphasis, but to show changes made in the most recent negotiations.

APPENDIX A-1
Wage Schedule
July 1, 2017

Civilian Jailers and Court Security Officers (Civilian Officers)	
3rd Class	**$18.72**
2nd Class	**$19.48**
1st Class	**$20.27**
Senior Corrections/Court Security Officer	**$22.47**
Master Corrections/Court Security Officer	**$25.08**
Sergeants/Court Security Supervisor	**$27.75**

APPENDIX A-1
Wage Schedule
July 1, 2018

Civilian Jailers and Court Security Officers (Civilian Officers)	
3rd Class	**$19.28**
2nd Class	**$20.06**
1st Class	**$20.88**
Senior Corrections/Court Security Officer	**$23.15**
Master Corrections/Court Security Officer	**$25.84**
Sergeants/Court Security Supervisor	**$28.58**

APPENDIX A-1
Wage Schedule
July 1, 2019

Civilian Jailers and Court Security Officers (Civilian Officers)	
3rd Class	**$19.86**
2nd Class	**$20.67**
1st Class	**$21.50**
Senior Corrections/Court Security Officer	**$23.84**
Master Corrections/Court Security Officer	**$26.61**
Sergeants/Court Security Supervisor	**$29.44**

APPENDIX A-1
Wage Schedule
July 1, 2020

Civilian Jailers and Court Security Officers (Civilian Officers)	
3rd Class	**$20.46**
2nd Class	**$21.29**
1st Class	**$22.15**
Senior Corrections/Court Security Officer	**$24.56**
Master Corrections/Court Security Officer	**$27.41**
Sergeants/Court Security Supervisor	**$30.32**

WOODBURY COUNTY BOARD OF SUPERVISORS AGENDA ITEM(S) REQUEST FORM #14a

Date: 2/21/2017 Weekly Agenda Date: 2/28/2017

ELECTED OFFICIAL / DEPARTMENT HEAD / CITIZEN: Kenny Schmitz

WORDING FOR AGENDA ITEM:

Public Hearing - LEC Optimization Plan

ACTION REQUIRED:

Approve Ordinance ☐ Approve Resolution ☐ Approve Motion ☐

Public Hearing ☑ Other: Informational ☐ Attachments ☐

EXECUTIVE SUMMARY:

A public hearing will be held on February 28th, 2017 at the 4:30 pm Woodbury County Board of Supervisors Meeting to discuss the LEC Optimization Plan. Public input is encouraged.

BACKGROUND:

A public hearing will be held on February 28th, 2017 at the Woodbury County Board of Supervisors Meeting to discuss the LEC Optimization Plan. Public input is encouraged.

FINANCIAL IMPACT:

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:

A public hearing will be held on February 28th, 2017 at the Woodbury County Board of Supervisors Meeting to discuss the LEC Optimization Plan. Public input is encouraged.

ACTION REQUIRED / PROPOSED MOTION:

Conduct Public Hearing on the Woodbury County LEC Optimization Plan.

Approved by Board of Supervisors April 5, 2016.

WOODBURY COUNTY BOARD OF SUPERVISORS AGENDA ITEM(S) REQUEST FORM #14 b & C

Date: 2/22/2017 Weekly Agenda Date: 2/28/2017

ELECTED OFFICIAL / DEPARTMENT HEAD / CITIZEN: Kenny Schmitz / Baker Group

WORDING FOR AGENDA ITEM:

LEC Improvements - Optimization Study Plan and Projects

ACTION REQUIRED:

Approve Ordinance ☐ Approve Resolution ☐ Approve Motion ☑

Public Hearing ☐ Other: Informational ☐ Attachments ☑

EXECUTIVE SUMMARY:

Expansion Committee Meeting results- Information will be provided (attached document) - Building Services Department recommendations.

BACKGROUND:

The LEC Expansion Committee Meeting discussed in depth the plan crafted by Goldberg Group Architects (GGA). The plan addresses multiple issues and provides improvements relating to 6-8 categories within the LEC that have been identified as having shortfalls in one manner or another. Ratification of the plan as a whole and approval of the initial step forward would signal an intent to address needs

FINANCIAL IMPACT:

A. Presented on 2/21/2017 by the Finance Director in conjunction with Baker Group.
B. Project B "Intake Area" $1.2

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:

A. Ratification of LEC Optimization projects B, C.1,C.2,D.1,E,G,H, and I as recommended by the LEC Expansion Committee.
B. Approval of Optimization Plan B "Intake Area" project and funding.

ACTION REQUIRED / PROPOSED MOTION:

1. Motion to ratify LEC Optimization Plan
2. Motion to approve Optimization Plan B "Intake Area" project funding in the amount of $1.2 Million.

Approved by Board of Supervisors April 5, 2016.

February 15th, 2017

Building Services has reviewed pertinent information, carefully considered input from all parties and takes this opportunity to provide the following comments and recommendations.

The Law Enforcement Center was completed in 1987 for an inmate population maximum of 90. Currently through a series of remodels the LEC has been expanded to a maximum inmate population of 234. The HVAC Systems however were not upgraded during these remodels, and do not currently meet heating and cooling needs, or ventilation codes.

The Woodbury County Board of Supervisors should move to ratify the Optimization Plan project improvements as designated and outlined by Goldberg Group Architects (GGA).
Ratification signals the Boards intent to eventually complete the projects but does not obligate them financially to do so. Optimization Plan Improvement projects are "stand alone" and could be approved by the Board on this basis going forward. This is an element that could address personal responsibility by formulating a vision and plan to implement improvement. The Optimization Plan total cost is $6.95 Million.

The LEC Expansion Committee believes that all aspects of the LEC Optimization Plan are of course important for each of their perspective reasons. It is necessary to recognize fiscal responsibility by exploring the projects that will provide the best use of taxpayer dollars.
The project identified as the lowest priority would be the elevator extension and basement renovation project (F). It is understood this project would include climate controlled Evidence storage areas and direct access by extending the existing elevator to the basement. This project may not provide a "bang for the buck" as other projects could. Another project identified was the Sheriff's squad and conference areas. Holding off or not completing these projects will provide a savings of approximately $1.35 Million. These two improvements combined reduce the $6.95 Million to $4.65 Million.

The closure of the Prairie Hills facility has projected operating savings of $1.2 over the next ten years. It would make sense that this savings should be repurposed to improve the current detention facility. Building Services would like to see these funds purposed for these improvements.

GGA explained that the reality of achieving the goals would need to be met through a series of projects that would ultimately jointly address Modernization, Inmate Classification, PREA, Medical Examination, Safety, Security Electronic Controls, Inmate Personal Storage, Evidence, HVAC System upgrades, and a Staff Break Area.
A very important item not to lose sight of is that with each of these projects the HVAC System deficiencies are being upgraded and addressed.

The Baker Group has been instructed to partner with the Woodbury County Finance Director to determine if a finance plan whereby Woodbury County could complete an LEC modernization under the stipulation that it could not affect the current County Levee rate.

Best regards,

Kenny Schmitz

SIOUX CITY HUMAN RIGHTS

FACES OF SIOUXLAND

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Sunday, April 2, 2017

NOON TO 4 P.M.

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SIOUX CITY Human Rights Commission

WOODBURY COUNTY JUVENILE DETENTION CENTER

Trosper-Hoyt Bldg.
822 Douglas St. - 4th Floor
Sioux City, Iowa 51101

Phone 712-279-6622
Email: molsen@sioux-city.org
Fax 712-234-2900

	6:00 a.m.	6:00 p.m.
February, 2017		
Febraury 13, 2017		**7**
February 14, 2017	**7**	**7**
February 15, 2017	**7**	**10**
February 16, 2017	**7**	**7**
February 17, 2017	**9**	**9**
February 18, 2017	**10**	**10**
February 19, 2017	**10**	**10**
February 20, 2017	**10**	

The Center averaged 8.6 residents per day during the 6:00 a.m. head count and 8.6 during the 6:00 pm check for a weekly average of 8.6 residents per day during the above week.

Of the ten juveniles on February 20, 2017, five or fifty percent are identified gang members. Of the five three or sixty percent are hard-core members.

We are currently detaining one juvenile from the BIA and one from Dakota County. We also detained three other BIA juveniles during the above week.

Mark Olsen
Director
WCJDC
February 20, 2017