

**NOTICE OF PUBLIC MEETING OF  
SEWARD COUNTY BOARD OF COMMISSIONERS  
TUESDAY, MARCH 3, 2026**

Notice is hereby given that a meeting of the Seward County Board of Commissioners will be held at 8:30 a.m. on Tuesday, March 3, 2026 in the County Board Meeting Room, Room 303 on the 3<sup>rd</sup> Floor of the of the Seward County Courthouse in Seward, Nebraska. The meeting is open to the public. The agenda for the meeting is kept continuously current and is available for public inspection at the office of the County Clerk in the Seward County courthouse, Seward, Nebraska.

Brandy Johnson, Seward County Clerk

*This is an Open Meeting of the Seward County Commissioners. Seward County abides by the Nebraska Open Meetings Act in conducting business. A copy of the Nebraska Open Meetings Act is displayed on the back wall of this meeting room as required by law. Presenters shall state their name for the Clerk's record and are asked to limit remarks to five minutes. All remarks shall be directed to the Chair who shall determine by whom any appropriate response shall be made. Seward County reserves the right to adjust the order of items on this Agenda if necessary and may elect to take action on any of the items listed.*

Known items on the agenda for Board of Commissioners on March 3, 2026 are as follows:

**8:30 a.m.**

1. Convene and announce Open Meetings Law
2. Pledge of Allegiance
3. Discuss/Action - Approve minutes of February 24, 2026
4. Discuss/Action – Public/Organizations/Officials

**Other Business Matters to Address When Time Allows**

5. Commissioner Reports
6. Discuss/Action – Consider Signing Letter of Support for 420<sup>th</sup> Road Paving Project to be Submitted for Community Project Funding
7. Discuss/Action – Amended Liquor License Application for Western Oil II, LLC/Speedee Mart 2737
8. Discuss/Action – Res.- Niemann Acres Short Form Plat in the S ½ SE ¼ of Section 36, Township 12 North, Range 1 East of the 6<sup>th</sup> p.m.
9. Discuss/Action – Res.- Segner Addition Replat in the NE ¼ of Section 33, Township 9 North, Range 1 East of the 6<sup>th</sup> p.m.
10. Discuss/Action – Agenda for March 10, 2026

**9:05 a.m.** Discussion Only – Public Transit Update

**9:15 a.m.** Public Hearing – Rezone from Transitional Ag (TA-1) to Highway Commercial District (C-2) in the NW ¼ of Section 33, Township 10 North, Range 3 East of the 6<sup>th</sup> p.m.

Discuss/Action – Res – Rezone from Transitional Ag (TA-1) to Highway Commercial District (C-2) in the NW ¼ of Section 33, Township 10 North, Range 3 East of the 6<sup>th</sup> p.m.

**9:20 a.m.** Public Hearing – Conditional Use Permit to Upgrade/Modify Equipment to an Existing Wireless Tower in the N ½ of Section 29, Township 10 North, Range 4 East of the 6<sup>th</sup> p.m.

Discuss/Action – Res. – Conditional Use Permit to Upgrade/Modify Equipment to an Existing Wireless Tower in the N ½ of Section 29, Township 10 North, Range 4 East of the 6<sup>th</sup> p.m.

**9:30 a.m.** Discuss/Action – Catastrophic Leave Request for Employee No. 1537093

**9:45 a.m.** Discuss/Action – Veteran of the Month

**10:00 a.m.** Discuss/Action – Quotes for Courthouse Tuckpointing

**10:15 a.m.** Discuss/Action – Res. – Adopt Seward County 1 & 6 Year Road Program

Discuss/Action – Perma-Zyme Soil Stabilizer Test Spots, Soil Sample Results, and Potential Options for a Water Trailer to be Used for Application on County Roads

Discuss/Action – Request Approval of Road Department Construction Crew Member Job Description

Discuss/Action – Road Department Construction Crew Budget and Yearly Plan

**ABOVE AGENDA IS OPEN UNTIL 24 HOURS PRIOR TO THE MEETING AND IS SUBJECT TO CHANGE TO INCLUDE EMERGENCY ITEMS. THE OFFICIAL AGENDA IS KEPT AT THE SEWARD COUNTY CLERK'S OFFICE. PLEASE CONTACT THEM AT 402-643-2883 FOR ANY QUESTIONS PERTAINING TO THE AGENDA AS LISTED ABOVE.**

**[Seward County Government Home Page](#)**

**Posted 03/02/2026**

# Seward County Commissioners

P.O. Box 190  
Seward, NE 68434  
Phone 402-643-2883  
Fax 402-643-2228  
Email: [bjohnson@sewardcountyne.gov](mailto:bjohnson@sewardcountyne.gov)



March 2, 2026

The Honorable Mike Flood  
U.S. House of Representatives  
301 South 13<sup>th</sup> Street, Suite 101  
Lincoln, NE 68508

RE: CPF Support for 420<sup>th</sup> Road Paving

Seward County, Nebraska is the 16th largest county in the state and one of the few rural counties experiencing sustained population and economic growth. According to the U.S. Census, the county's population increased by 6.67% between 2010 and 2020, and since 2020 has continued to grow at approximately 1% annually. This growth reflects expanding business activity, increased agricultural and freight movement, and rising demand on local infrastructure. Federal investment is critical to ensure transportation systems keep pace with this momentum and continue to support rural economic development.

The proposed 420<sup>th</sup> Road paving project addresses a significant infrastructure gap by improving a heavily traveled connector to a State Highway. This 5.5-mile corridor carries consistent truck, agricultural, school bus, and commuter traffic and plays an essential role in moving goods, services, and people safely and efficiently. As a gravel roadway, 420<sup>th</sup> Road requires frequent and costly maintenance, yet persistent washboards, potholes, and surface degradation remain difficult to prevent due to traffic volume, weather exposure, rising material and labor costs, and ongoing workforce shortages. These conditions create safety risks, increase vehicle wear, and disrupt reliable access for local industries and residents.

This project would generate meaningful benefits across multiple sectors. 420<sup>th</sup> Road provides primary access for agricultural producers, including two poultry operations, three feedlots, and a trucking business that rely on the route daily to move products to market. Heavy truck traffic flattens the roadway's crown, impairing drainage and causing water to pool and flow across the surface, which further causes deterioration and creates hazardous driving conditions. Centennial School District uses this road as a regular bus route, and it is traveled daily by student drivers. Paving the roadway would significantly improve safety and reliability compared to gravel or the alternative use of Interstate 80. Emergency services would also benefit from improved response times and safer access during all weather conditions.

From a fiscal and implementation standpoint, this project is well positioned for federal partnership. It is included in Seward County's six-year road plan; however, as a small rural county with limited local revenue, full completion is not feasible without federal assistance. Advancing the project using only local funds would require nearly 40% of the county's annual budget in a single year, effectively halting all other road maintenance and repairs. Federal funding would allow the county to complete this high-impact project while maintaining a responsible infrastructure program.

Engineering for the project is complete, environmental review and pre-construction activities are nearly finalized, and the project is ready for construction upon receipt of remaining funds. Seward County has already demonstrated strong local and federal partnership by securing \$3,000,000 in Congressionally Directed Funding toward this effort.

Additional federal investment will leverage this prior commitment and deliver immediate, measurable benefits in safety, economic efficiency, and rural connectivity.

Thank you for your consideration of this shovel-ready project and for supporting infrastructure investments that strengthen rural communities, improve safety, and promote long-term economic resilience.

Sincerely,

\_\_\_\_\_  
Misty Ahmic, Chair

\_\_\_\_\_  
Darrell Zabrocki, Vice Chair

\_\_\_\_\_  
Raegan Hain, Commissioner

\_\_\_\_\_  
Scott Pekarek, Commissioner

\_\_\_\_\_  
Ken Schmieding, Commissioner

Niemann Acres

Located in Precinct D, Section 36, Township 12N, Range 1E in the SE 1/4.

Quarter section zoned A-1

Paul, Dale and Beth Niemann have requested a Short Form Plat. The intention of this application is to separate 6.36 acres from the existing 80 acres. This Short Form Plat meets the requirements for Seward County.

This parcel is not in the Water Conservation District.

This parcel does not have floodplain concerns.

Taxes are paid in full as of 02/02/2026.

Planning Commission recommended approval of this Short Form Plat with a vote of 7 for 0 against 2 absent, not voting.



SEWARD COUNTY  
PLAT SUBDIVISION APPLICATION

Date FEB 2, 2026 Plat Application Number \_\_\_\_\_

Owner/Applicant PAUL NIEMANN

Address 3948 RAYMOND RD. STAPLEHURST NE 68439

Telephone 402-641-3194 E-mail \_\_\_\_\_

Owner 2/Applicant DALE & BETH NIEMANN

Address 1939 406<sup>TH</sup> RD STAPLEHURST NE 68439

Telephone 402-535-2357 E-mail \_\_\_\_\_

This application is for  Short Form Plat  Admin Plat  Vacate/Replat

Legal description of requested subdivision: Parcel ID 800031709 Total acres 80

# of acres to be divided 6.36 Precinct D Section 36

Township 12 Range 1 Quarter SE 1/4 Zoning District A-1

In Water Conservation  Yes  No

Fee is \$400. Please make checks payable to **Seward County Treasurer**

Receipt # \_\_\_\_\_

Paul J. Niemann  
Applicant 1

FEB. 2, 2026  
Date

Dale & Beth Niemann  
Applicant 2

2/2/26  
Date

Official Use \_\_\_\_\_

Taxes paid in full  Yes  No

Brenda Hartman  
Seward County Treasurer Office

Planning Commission Recommendation \_\_\_\_\_

\_\_\_\_\_  
Planning Commission Chair

\_\_\_\_\_  
Date

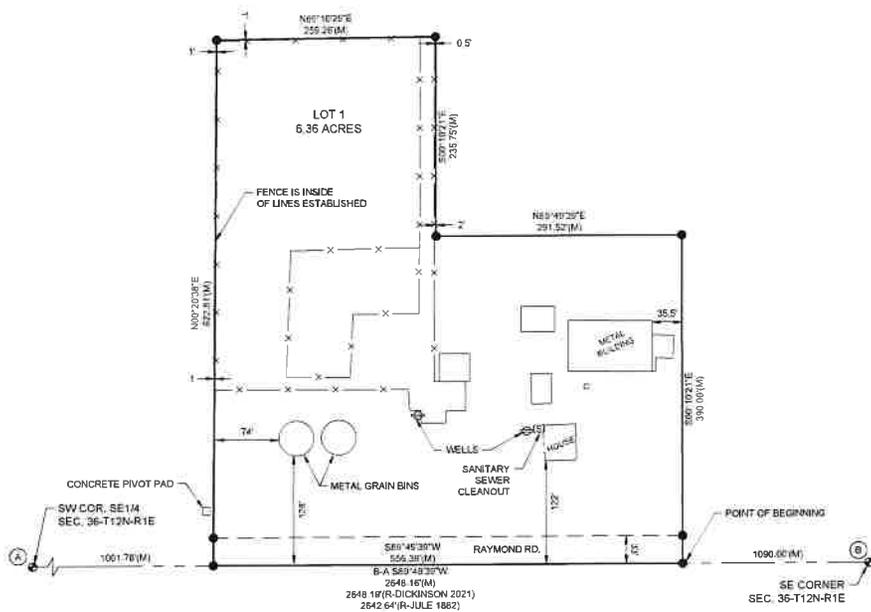
# NIEMANN ACRES

PART OF THE SOUTH HALF OF THE SOUTHEAST QUARTER OF  
SECTION 36, TOWNSHIP 12 NORTH, RANGE 1 EAST OF THE SIXTH P.M.,  
SEWARD COUNTY, NEBRASKA  
SHORT FORM PLAT



**JEO CONSULTING GROUP**

JEO Consulting, Inc.  
1937 N Chestnut St  
Wahoo, NE 68606  
800.723.8567 | jeo.com  
Organization Certificate of  
Authorization Number: CA-0069



**OWNER'S CERTIFICATE (LOT 1):**

WE, THE UNDERSIGNED DALE L. NIEMANN AND BETH M. NIEMANN, HUSBAND AND WIFE, DO HEREBY CERTIFY THAT WE HAVE LAID OUT, PLATTED, AND SUBDIVIDED, SAID REAL ESTATE IN ACCORDANCE WITH THIS PLAT.

THIS SUBDIVISION SHALL BE KNOWN AND DESIGNATED AS "NIEMANN ACRES", BEING A PART OF THE SOUTH HALF OF THE SOUTHEAST QUARTER OF SECTION 36 TOWNSHIP 12 NORTH, RANGE 1 EAST OF THE SIXTH P.M., SEWARD COUNTY, NEBRASKA.

CLEAR TITLE TO THE LAND CONTAINED IN THIS PLAT IS GUARANTEED. ANY ENCUMBRANCES OR SPECIAL ASSESSMENTS ARE EXPLAINED AS FOLLOWS:

DALE L. NIEMANN \_\_\_\_\_ BETH M. NIEMANN \_\_\_\_\_

**ACKNOWLEDGMENT OF NOTARY:**

STATE OF NEBRASKA )  
COUNTY OF ) SS

BEFORE ME, A NOTARY PUBLIC QUALIFIED IN SAID COUNTY, PERSONALLY CAME DALE L. NIEMANN AND BETH M. NIEMANN, KNOWN TO ME TO BE THE IDENTICAL PERSONS WHO SIGNED THE FOREGOING INSTRUMENT, AND ACKNOWLEDGED THE EXECUTION THEREOF TO BE THEIR VOLUNTARY ACT AND DEED.

WITNESS MY HAND AND NOTARIAL SEAL ON \_\_\_\_\_ DAY OF \_\_\_\_\_, 2026.

NOTARY PUBLIC \_\_\_\_\_ MY COMMISSION EXPIRES \_\_\_\_\_

**OWNER'S CERTIFICATE (LOT 1):**

I, THE UNDERSIGNED PAUL J. NIEMANN, A SINGLE PERSON, DO HEREBY CERTIFY THAT I HAVE LAID OUT, PLATTED, AND SUBDIVIDED, SAID REAL ESTATE IN ACCORDANCE WITH THIS PLAT.

THIS SUBDIVISION SHALL BE KNOWN AND DESIGNATED AS "NIEMANN ACRES", BEING A PART OF THE SOUTH HALF OF THE SOUTHEAST QUARTER OF SECTION 36 TOWNSHIP 12 NORTH, RANGE 1 EAST OF THE SIXTH P.M., SEWARD COUNTY, NEBRASKA.

CLEAR TITLE TO THE LAND CONTAINED IN THIS PLAT IS GUARANTEED. ANY ENCUMBRANCES OR SPECIAL ASSESSMENTS ARE EXPLAINED AS FOLLOWS:

PAUL J. NIEMANN \_\_\_\_\_

**ACKNOWLEDGMENT OF NOTARY:**

STATE OF NEBRASKA )  
COUNTY OF ) SS

BEFORE ME, A NOTARY PUBLIC QUALIFIED IN SAID COUNTY, PERSONALLY CAME PAUL J. NIEMANN, KNOWN TO ME TO BE THE IDENTICAL PERSON WHO SIGNED THE FOREGOING INSTRUMENT, AND ACKNOWLEDGED THE EXECUTION THEREOF TO BE THEIR VOLUNTARY ACT AND DEED.

WITNESS MY HAND AND NOTARIAL SEAL ON \_\_\_\_\_ DAY OF \_\_\_\_\_, 2026.

NOTARY PUBLIC \_\_\_\_\_ MY COMMISSION EXPIRES \_\_\_\_\_

**LEGAL DESCRIPTION:**

LOT 1  
A PARCEL OF LAND LOCATED IN THE SOUTH HALF OF THE SOUTHEAST QUARTER OF SECTION 36, TOWNSHIP 12 NORTH, RANGE 1 EAST OF THE SIXTH P.M., SEWARD COUNTY, NEBRASKA, BEING DESCRIBED AS FOLLOWS: REFERRING TO THE SOUTH-EAST CORNER OF THE SOUTH HALF OF THE SOUTHEAST QUARTER OF SAID SECTION 36: THENCE S89°49'38"W (SEWARD COUNTY LOW DISTORTION PROJECTION) ON THE SOUTH LINE OF SAID SOUTH HALF OF THE SOUTHEAST QUARTER, A DISTANCE OF 1090.00 FEET TO THE POINT OF BEGINNING; THENCE CONTINUING S89°49'38"W ON SAID SOUTH LINE, A DISTANCE OF 556.38 FEET; THENCE N00°20'38"E, A DISTANCE OF 622.81 FEET; THENCE N89°10'25"E, A DISTANCE OF 259.26 FEET; THENCE S00°10'21"E PERPENDICULAR TO SAID SOUTH LINE, A DISTANCE OF 235.75 FEET; THENCE N89°49'38"E PARALLEL WITH SAID SOUTH LINE, A DISTANCE OF 291.52 FEET; THENCE S00°10'21"E PERPENDICULAR TO SAID SOUTH LINE, A DISTANCE OF 390.00 FEET TO THE POINT OF BEGINNING, CONTAINING 6.36 ACRES, MORE OR LESS.

**SEWARD COUNTY PLANNING COMMISSION APPROVAL:**

THIS PLAT OF NIEMANN ACRES HAS BEEN SUBMITTED TO AND APPROVED BY THE SEWARD COUNTY PLANNING COMMISSION.

DATED THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 2026.

CHAIRPERSON \_\_\_\_\_

**SEWARD COUNTY BOARD APPROVAL:**

THIS PLAT OF NIEMANN ACRES HAS BEEN SUBMITTED TO, AND APPROVED BY THE SEWARD COUNTY BOARD OF COMMISSIONERS.

DATED THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 2026.

CHAIRMAN SEWARD COUNTY BOARD \_\_\_\_\_

**REGISTER OF DEEDS CERTIFICATE**

STATE OF NEBRASKA )  
COUNTY OF SEWARD ) SS

THIS IS TO CERTIFY THAT THIS INSTRUMENT WAS FILED FOR RECORD IN THE REGISTER OF DEEDS OFFICE

DATE \_\_\_\_\_ TIME \_\_\_\_\_ DRAWER NO. \_\_\_\_\_ FEE \$ \_\_\_\_\_

INSTRUMENT NO. \_\_\_\_\_

REGISTER OF DEEDS \_\_\_\_\_

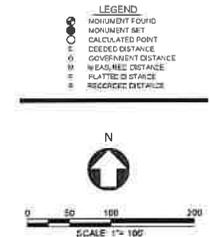
**CORNER TIES:**

- (A) SW CORNER SE 1/4 SECTION 36-T12N-R1E  
FOUND A SE REBAR WITH A 2" S.C.E.M. ALUMINUM CAP AS RECORDED BY SIMONDS IN JANUARY OF 1992, 0.5' DEEP.  
NW 46.70' TO A 5/8" BY 24" REBAR WITH A GREEN PLASTIC CAP STAMPED "R.M. 2025" SET 0.1' DEEP (W45°00'41"W)  
NNE 35.86' TO A NAIL FOUND IN THE WEST FACE OF A POWER POLE (4' ABOVE GROUND)  
NNE 45.17' TO A NAIL FOUND IN THE WEST FACE OF THE WEST LEG OF AN "H" STRUCTURE POWER POLE (5' ABOVE GROUND)  
NE 51.76' TO A NAIL FOUND IN THE EAST FACE OF THE EAST LEG OF AN "H" STRUCTURE POWER POLE (5' ABOVE GROUND)  
SE 50.41' TO A 5/8" BY 24" REBAR WITH A GREEN PLASTIC CAP STAMPED "R.M. 2025" SET 0.1' DEEP (S45°00'41"E)  
NOTE: 2025 R.M.S SET ON A RANDOM LINE OVER THE CORNER  
S 33.54' TO A NAIL FOUND IN THE WEST FACE OF A CORNER FENCE POST (1' ABOVE GROUND)  
N 2' TO THE CENTERLINE OF AN EAST-WEST GRAVEL ROAD  
NOTE: RYAN DICKINSON'S TIES FROM 2021 WERE FOUND BUT NOT USED. I USED THE OLDER TIES OF RECORD IN THE SAME STRUCTURES
- (B) SE CORNER SECTION 36-T12N-R1E  
FOUND A 3/4" IRON BOLT AS REQUIRED BY SIMONDS IN JANUARY OF 1992, 1.3' DEEP.  
N 32.49' TO A NAIL FOUND IN THE WEST FACE OF A POWER POLE (4' ABOVE GROUND)  
NE 54.24' TO A NAIL FOUND IN THE SE FACE OF A GUY POLE (4' ABOVE GROUND)  
SE 38.26' TO A NAIL FOUND IN THE SW FACE OF A POWER POLE (3' ABOVE GROUND)  
SW 49.14' TO A MAG NAIL WITH AN ALUMINUM WASHER STAMPED "ERIAN J. FORAL L.S-588" SET IN THE NW FACE OF A T-PEE POST (3' ABOVE GROUND)  
N 2' TO THE CENTERLINE OF AN EAST-WEST GRAVEL ROAD  
W 3' TO THE CENTERLINE OF A GRAVEL ROAD SOUTH

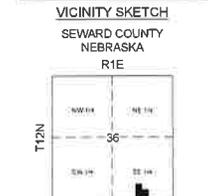
**SURVEYOR'S CERTIFICATE**

I HEREBY CERTIFY THAT I AM A PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF NEBRASKA; THAT THIS SURVEY WAS PERFORMED IN ACCORDANCE WITH THE LAND SURVEYORS REGULATION ACT IN EFFECT AT THE TIME OF THIS SURVEY; THAT THIS SURVEY WAS PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION AND IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE.

ERIAN J. FORAL, PLS 588



NOTE: ALL BEARINGS ARE SEWARD COUNTY UTM



JEO Project No.: R260582  
Date: 1/29/2026  
QAQC:  
Field Book: SEWARD CO #17  
Field Crew: NF/GK  
Survey File No.: 2026-030  
Drawn By: BJF





800031695

800031687

800031644

800028570

36-12-1E

31-12-2E

800031709

800028589

A-1

RAYMOND RD

406 RD

800031725

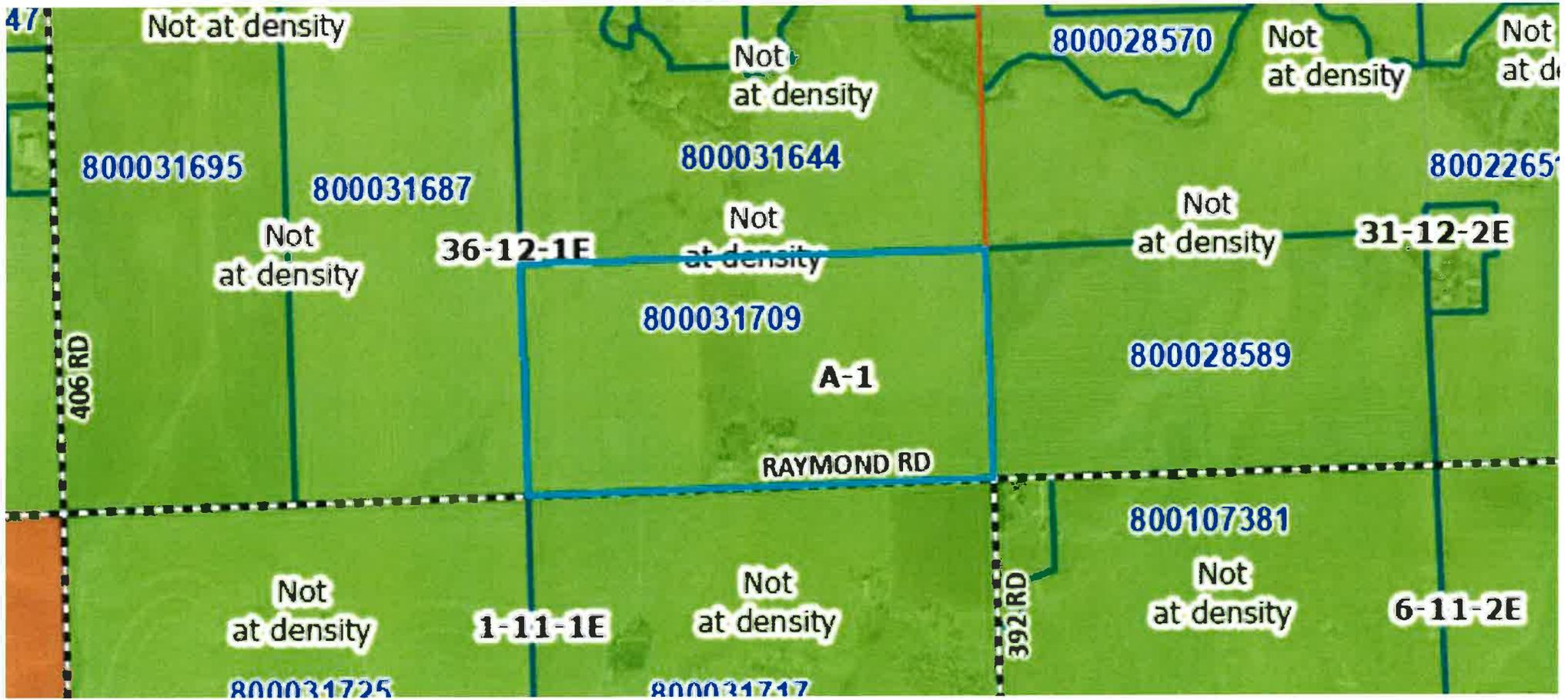
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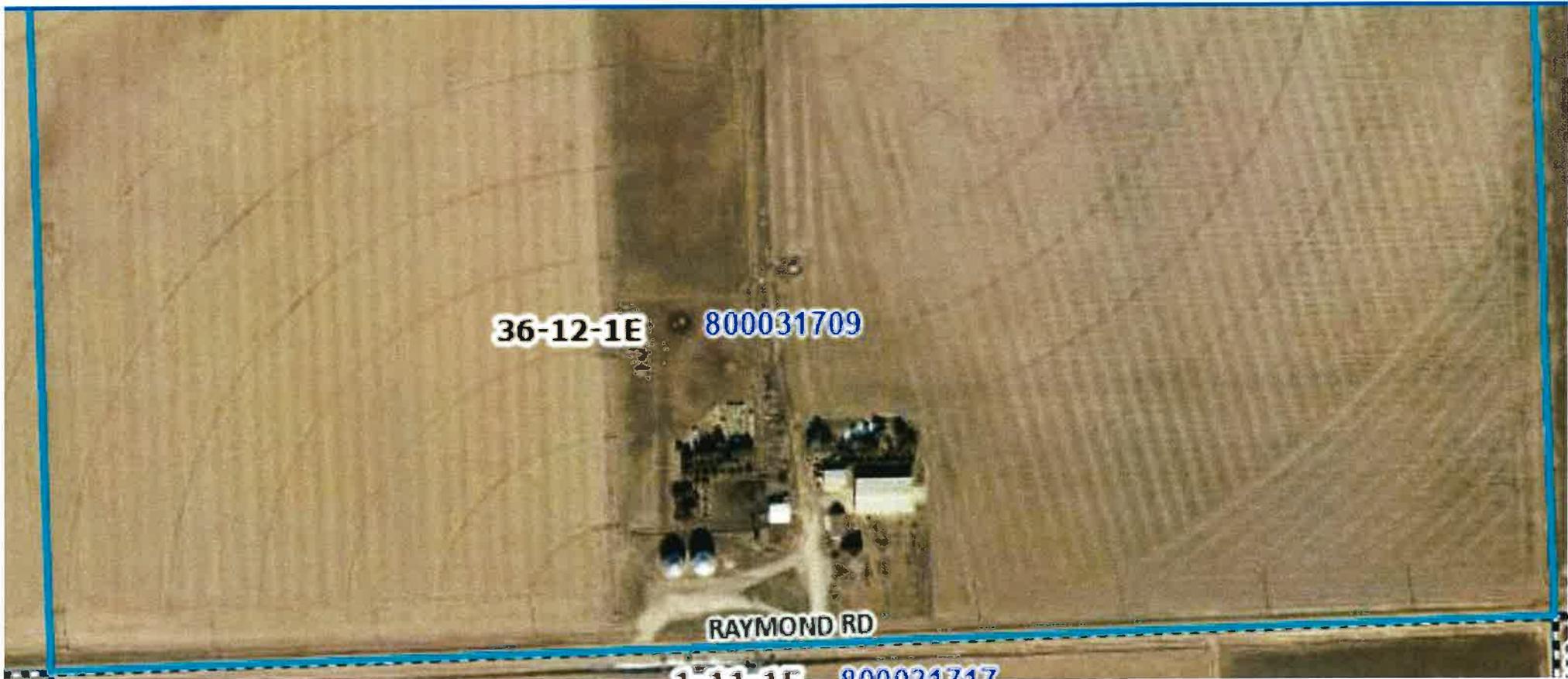
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392 RD

800107381

6-11-2E





36-12-1E

800031709

RAYMOND RD

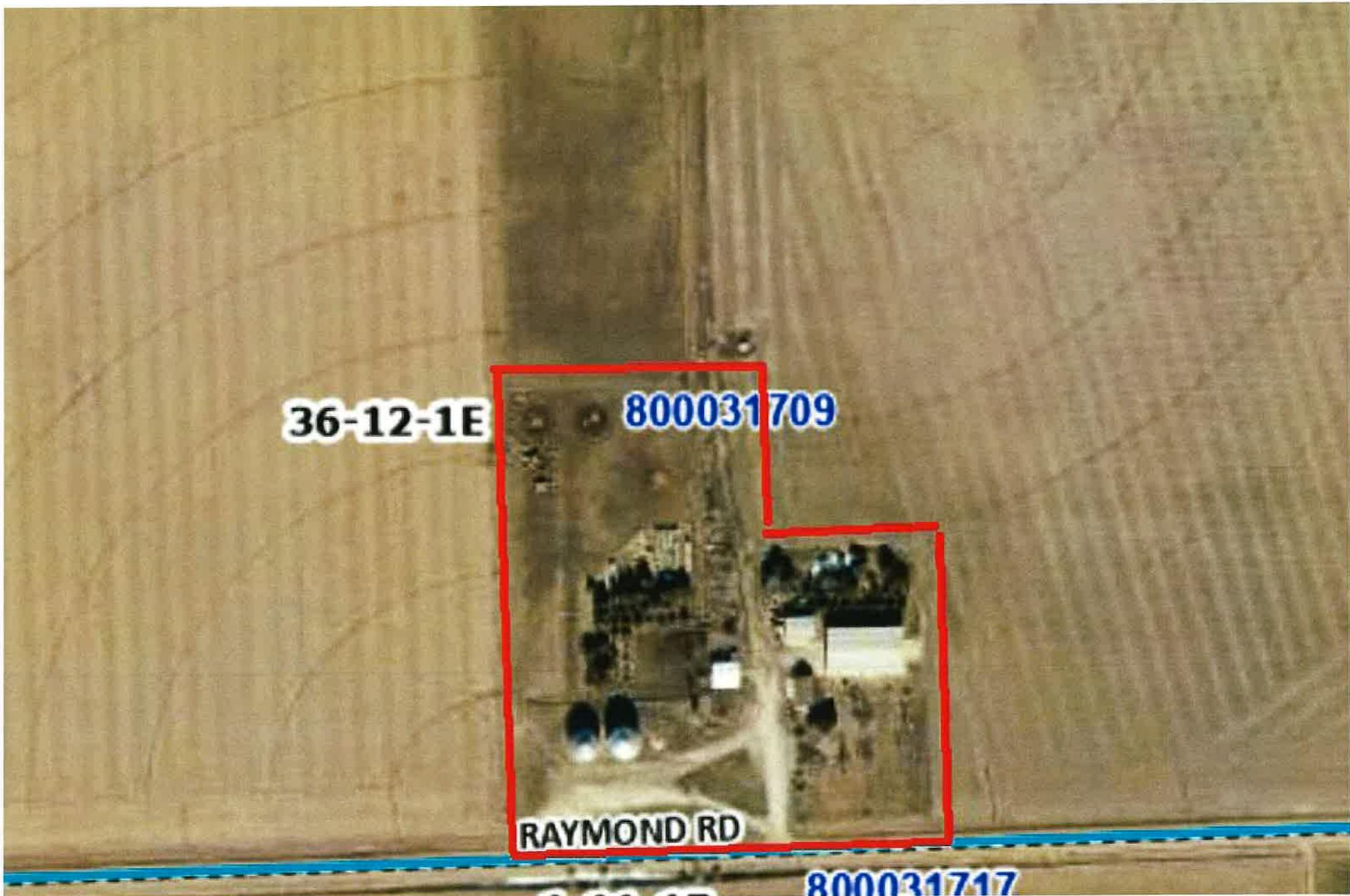
36-12-1E 800024747

**36-12-1E**

**800031709**

**RAYMOND RD**

**800031717**



**RESOLUTION NO \_\_\_\_\_ OF THE SEWARD COUNTY BOARD OF COMMISSIONERS**

**WHEREAS** Paul, Dale and Beth Niemann own approximately 80 acres of land and have applied for a Short Form Plat to separate 6.36 acres, and described it as a tract of land in the Southeast Quarter of, Section 36, Township 12N, Range 1 East of the 6th P.M, Seward County, Nebraska, and

**WHEREAS** the Short Form Plat shall be called Niemann Acres and

**WHEREAS** The Seward County Planning Commission held a meeting on February 23,2026 to consider the Short Form Plat, and

**WHEREAS**, the Planning Commission recommended approval of the Niemann Acres Subdivision, with a vote of 7 For, 0 Against, and 2 Absent Not Voting, and

**WHEREAS** \_\_\_ No one appeared to oppose the subdivision.

\_\_\_ Individuals appeared to oppose the subdivision

\_\_\_ No one appeared to support the subdivision

\_\_\_ Individuals appeared to support the subdivision.

\_\_\_ Individuals appeared without commitment, and

**THEREFORE, BE IT RESOLVED** that the Seward County Board of Commissioners do hereby Approve or Deny the Niemann Acres, Short Form Plat, with Resolution NO: \_\_\_\_\_.

MOTION BY: \_\_\_\_\_

SECONDED BY: \_\_\_\_\_

ROLL CALL

AYES: \_\_\_\_\_

NAYS: \_\_\_\_\_

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Chairman, Board of Commissioners

Chairman, Board of Commissioners

March 3, 2026

ATTEST: \_\_\_\_\_

Brandy Johnson, Seward County Clerk

Segner Addition Replat

Located in Section 33, Township 9N, Range 1E in the NE 1/4.

Quarter section zoned A-1

David & Melissa Segner have requested a Replat. The Segner's own approximately 40 acres in the ¼ section. The intention of this application is to move the property line adding .55 acres of land. This Replat meets the requirements for Seward County.

This parcel is not in the Water Conservation District.

This parcel does not have floodplain concerns.

Taxes are paid in full as of 02/19/2026.

Planning Commission recommended approval of this Replat with a vote of 7 for 0 against 2 absent, not voting.



28-9-1E

800012712

8000

ROKEBY RD

800230100

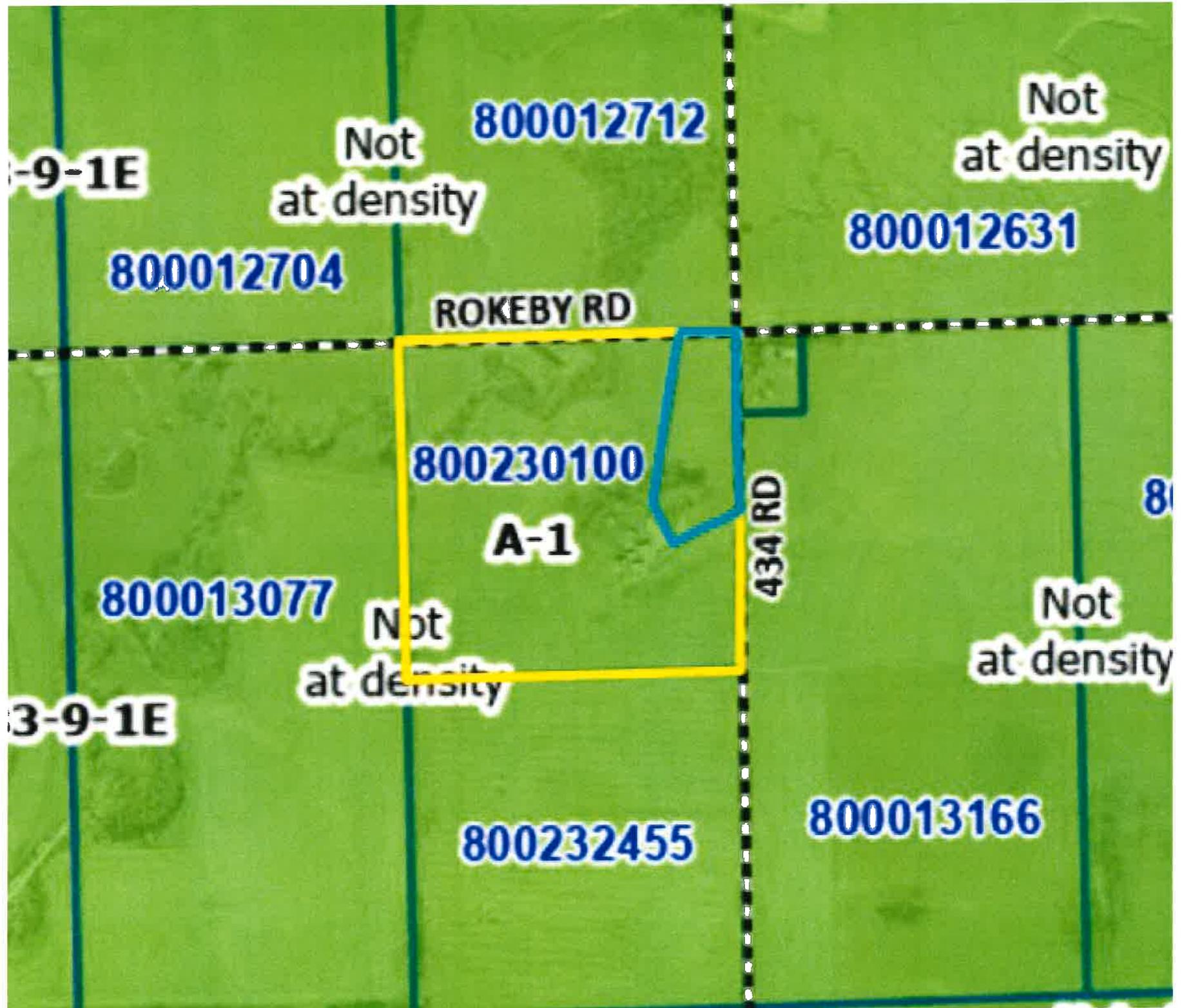
A-1

434 RD

7 33-9-1E

80001:

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3-9-1E

800012712

8000

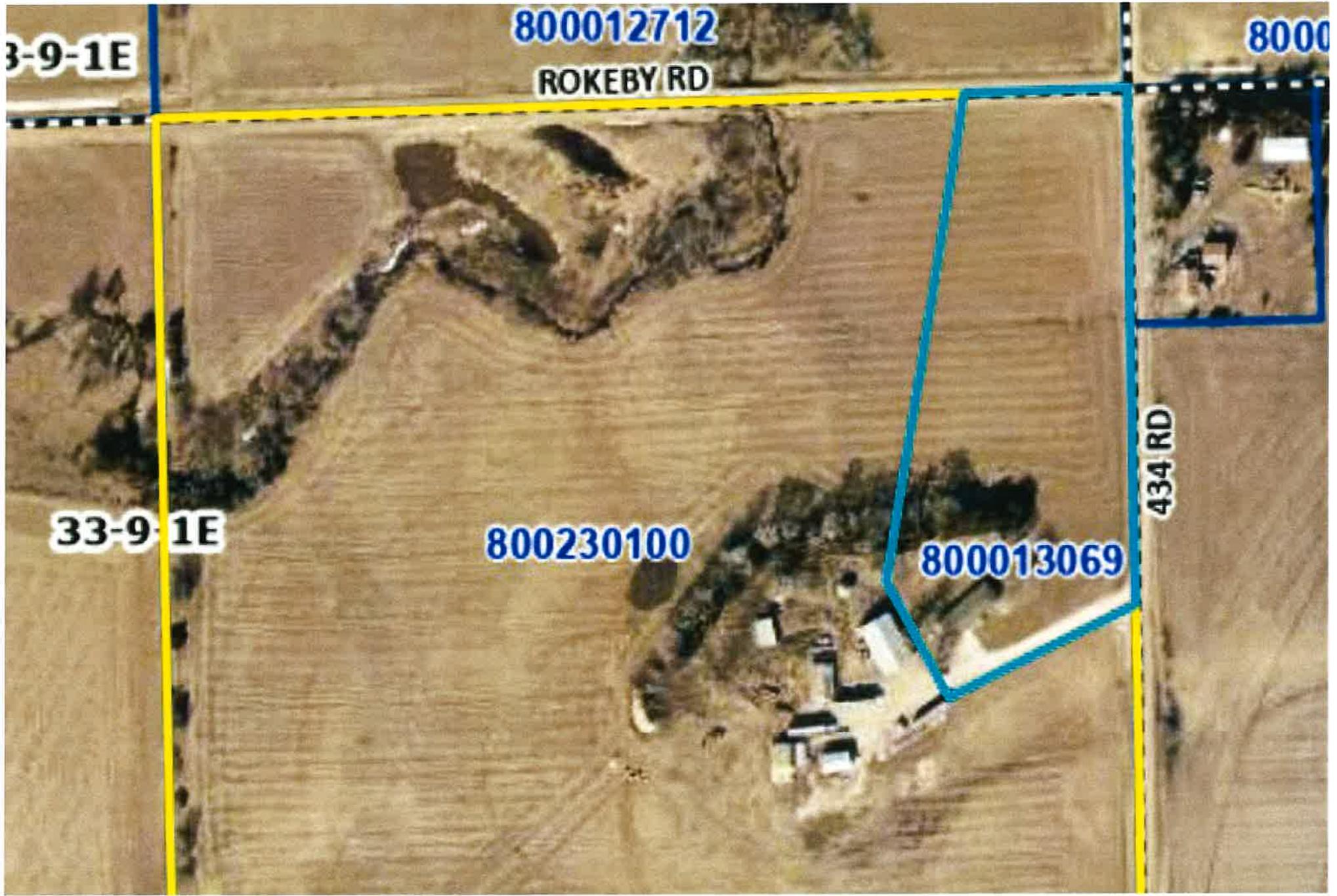
ROKEBY RD

33-9-1E

800230100

800013069

434 RD





800230100

33-9-1E

800013069

434 RD

238

**RESOLUTION NO \_\_\_\_\_ OF THE SEWARD COUNTY BOARD OF COMMISSIONERS**

**WHEREAS** David and Melissa Segner own approximately 40 acres of land and have applied for a Replat to replat 5.57 acres, and described it as a tract of land in the Northeast Quarter of, Section 33, Township 9N, Range 1 East of the 6th P.M, Seward County, Nebraska, and

**WHEREAS** the Replat shall be called Segner Subdivision Replat and

**WHEREAS** The Seward County Planning Commission held a meeting on February 23, 2026 to consider the Short Form Plat, and

**WHEREAS**, the Planning Commission recommended approval of the Segner Subdivision Replat, with a vote of 7 For, 0 Against, and 2 Absent Not Voting, and

**WHEREAS** \_\_\_ No one appeared to oppose the replat.

\_\_\_ Individuals appeared to oppose the replat.

\_\_\_ No one appeared to support the replat.

\_\_\_ Individuals appeared to support the replat.

\_\_\_ Individuals appeared without commitment, and

**THEREFORE, BE IT RESOLVED** that the Seward County Board of Commissioners do hereby Approve or Deny the Segner Subdivision Replat, Replat, with Resolution NO: \_\_\_\_\_.

MOTION BY: \_\_\_\_\_

SECONDED BY: \_\_\_\_\_

ROLL CALL

AYES: \_\_\_\_\_

NAYS: \_\_\_\_\_

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Chairman, Board of Commissioners

Chairman, Board of Commissioners

March 3, 2026

ATTEST: \_\_\_\_\_

Brandy Johnson, Seward County Clerk

COUNTY OF SEWARD - PLANNING & ZONING ADMINISTRATOR

APPLICATION TO REZONE

Date 02/05/2026

1. Name of Applicant Jim Daws owner of J&L Enterprises LLC
2. Address 758 280th Rd. Milford
3. Telephone Number 402-641-5432
4. Owners Name & Address \_\_\_\_\_
5. Parcel ID 800214994
6. Address & Legal Description of Property 758 280th Rd. Milford  
Northwest 1/4 of Section 33, Township 10N, Range 3E
7. Zoning Classification: Currently TA-1 Desired C-2
8. Current use of property Truck repair shop
9. Desired use of property To bring 1/4 into compliance with current regulations
10. Attach an additional sheet containing scaled and dimensioned diagram showing the property referred to in the application, also show the use of the land adjoining the property.

THE ABOVE STATEMENTS AND ACCOMPANYING MATERIAL ARE COMPLETE AND ACCURATE.

  
Applicant

A FEE OF \$600.00 MUST ACCOMPANY THIS APPLICATION

BOARD ACTION

Planning Commission

Date legal notice was published 2-18-26 Date of hearing 2-23-26 7pm

Board's Recommendation - Approved  Denied \_\_\_\_\_

Reasons governing recommendation \_\_\_\_\_

  
Chairman

Action of Board of Commissioners:

Date Legal Notice was Published 2-25-26 Date of Hearing 3-3-26 9:15

Board's Decision - Approved \_\_\_\_\_ Denied \_\_\_\_\_

Reasons governing decision \_\_\_\_\_

Chairman

Date

Resolution Number \_\_\_\_\_

COUNTY OF SEWARD - PLANNING & ZONING ADMINISTRATOR

APPLICATION TO REZONE

1. Name of Applicant Wacker Revocable Trust--Ron Schroeder Date \_\_\_\_\_
2. Address 3804 53rd St. Columbus, NE 68601-8043
3. Telephone Number 402-562-1000
4. Owners Name & Address \_\_\_\_\_
5. Parcel ID 800005597
6. Address & Legal Description of Property 33-10-3 SW 1/4
7. Zoning Classification: Currently TA-1 Desired C-2
8. Current use of property Farm land
9. Desired use of property Farm land
10. Attach an additional sheet containing scaled and dimensioned diagram showing the property referred to in the application, also show the use of the land adjoining the property.

THE ABOVE STATEMENTS AND ACCOMPANYING MATERIAL ARE COMPLETE AND ACCURATE.

*Ron Schroeder*  
Applicant

A FEE OF \$600.00 MUST ACCOMPANY THIS APPLICATION

BOARD ACTION

Planning Commission

Date legal notice was published 2-18-26 Date of hearing 2-23-26 7pm

Board's Recommendation: Approved  Denied \_\_\_\_\_

Reasons governing recommendation \_\_\_\_\_

*Dale Grimmer*  
Chairman

Action of Board of Commissioners:

Date Legal Notice was Published 2-25-26 Date of Hearing 3-3-26 9:15

Board's Decision - Approved \_\_\_\_\_ Denied \_\_\_\_\_

Reasons governing decision \_\_\_\_\_

Chairman \_\_\_\_\_ Date \_\_\_\_\_

Resolution Number \_\_\_\_\_

800005236

A STREET RD

800005554

800005589

TA-1

33-10-3E

800005600

8000974

800005597

280 RD

266 RD

VAN DORN RD

800096762

16556

C-2

800016424

800016467 800233135

800016432

4-9-3E

W MILFORD RD

800101448

800228

**RESOLUTION NO \_\_\_\_\_ OF THE SEWARD COUNTY BOARD OF COMMISSIONERS**

**WHEREAS**, Jim Daws owner of J&L Enterprises LLC and Ron Schroeder of Wacker Revocable Trust have applied for a Zoning District change for a tract of land from TA-1 Transitional Agricultural District to C-2 Highway Commercial District, and

**WHEREAS**, The tract is described as a tract in the Northwest  $\frac{1}{4}$ , of Section 33, Township 10 North, Range 3 East of the 6PM, Precinct J, Seward County, Nebraska, and

**WHEREAS**, The tract is described as a tract in the Southwest  $\frac{1}{4}$ , of Section 33, Township 10 North, Range 3 East of the 6PM, Precinct J, Seward County, Nebraska, and

**WHEREAS**, Notice of Public Hearing by the Seward County Planning Commission was published in the Seward County Independent, the Milford Times, and was posted on the property, and

**WHEREAS**, the Planning Commission held a public hearing on the Zoning District change on February 23, 2026, and

**WHEREAS**, the Planning Commission had a recommended approval of the Rezone of these  $\frac{1}{4}$  sections with a vote of 7 for, 0 against, and 2 absent and not voting.

**WHEREAS**, The Seward County Board of Commissioners held a public hearing on the Zoning District on March 3, 2026, and

**WHEREAS**, Notice of Public Hearing by the Seward County Board of Commissioners was published in the Seward County Independent, the Milford Times, and was posted on the property, and

**WHEREAS**, \_\_\_ No one appeared to oppose said Rezone

\_\_\_ Individuals appeared to oppose said Rezone

\_\_\_ No one appeared to support said Rezone

\_\_\_ Individuals appeared to support said Rezone, and

**NOW, THEREFORE BE IT RESOLVED** that the Seward County Board of Commissioners do hereby adopt Resolution \_\_\_\_\_ to approve\_\_\_\_\_, deny\_\_\_\_\_ the Zoning District Change from TA-1 Transitional Agricultural District to C-2 Highway Commercial District the tract of land located in the Northwest  $\frac{1}{4}$ , of Section 33, Township 10 North, Range 3 East of the 6PM, Precinct J, Seward County, Nebraska and the tract of land located in the Southwest  $\frac{1}{4}$ , of Section 33, Township 10 North, Range 3 East of the 6PM, Precinct J, Seward County, Nebraska.

MOTION BY: \_\_\_\_\_

SECONDED BY: \_\_\_\_\_

ROLL CALL

AYES:

NAYS:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Chairman Board of Commissioners

Chairman, Board of Commissioners

March 3, 2026

ATTEST: \_\_\_\_\_

Brandy Johnson, Seward County Clerk



SEWARD COUNTY
APPLICATION FOR CONDITIONAL USE PERMIT
ZONING REQUIREMENTS

\*ALL BUILDINGS WILL BE BUILT BY: IBC CODE STANDARDS 2018 OR BETTER
\*AN ELECTRICAL INSPECTION IS REQUIRED FOR ANY CONSTRUCTION.

Date: 1/26/2026 Zoning Permit #: 02-2026
Parcel ID #: 800231570 # Acres: Zoning District: A-1
Legal Description: Precinct: 1 Section: 29 Range: 4E Township: 10 N Quarter: N 1/2
Tower Owner: American Tower Phone #:
Address: 10 Presidential Way, Woburn, MA 01801 Email:
Tower Lessee AT&T Phone #:
Address: 208 S. Akard St., Dallas, TX 75202 Email:

CLASS OF WORK

Description of work to be performed AT&T plans to remove: 12 antennas, 9 radios, 3 TMA units and associated cabling.
AT&T plans to install: 9 antennas, 12 radios, 1 fiber trunk, 2 DC trunks and associated cabling.

Tower Height 180 Front Setback: Side Yd: Rear Yd:
Will any structures be added to the ground No If yes, structure Size: Length: Width:
Sidewall Height: N/A Square Footage: Use of Structure Telecommunication Tower Equipment Upgrade
Builder: AMENTUM DIGITAL INFRASTRUCTURE INC Electrician:

Official Use Only

Application received 2/3/2026 FEE: \$ 800 Received on 2/3/2026 Receipt #: 1105
Action of Planning Commission

Date legal notice was published 2/18/2026 Date of hearing 2/23/2026

Board's Recommendation- Approved x Denied Chairman

Reasons governing recommendation

Conditions to permit None

Action of Board of Commissioners:

Date Legal Notice was Published 2/25/2026 Date of Hearing 3/3/2026

Board's Recommendation- Approved Denied Chairman

Reasons governing decision

Conditions to permit



February 20, 2026

### Permit Application Information

#### APPLICANT INFORMATION

**Company Name:** Fullerton Engineering obo AT&T

**Contact Person:** Riga Geci

**Address:** 1100 East Woodfield Rd., #500, Schaumburg, IL 60173

**Email:** [rgeci@fullerton-us.com](mailto:rgeci@fullerton-us.com)

**Phone:** 217-909-2787

Please reach out to me for any questions or fees related to this project.

Sincerely,

**Riga Geci**  
*Project Lead*



[Office number: 217-909-2787](tel:217-909-2787)

[rgeci@fullerton-US.com](mailto:rgeci@fullerton-US.com)





SITE PHOTO

PROJECT INFORMATION

SITE NAME: MILFORD SEWARD  
 COUNTY: 2015 O STREET RD  
 ADDRESS: PLEASANT DALE, NE 68423-9036  
 JURISDICTION: COUNTY OF SEWARD, NE  
 SITE NUMBER: OMAHNEU1156  
 FA NUMBER: 10147225  
 PIN: 3525A1C7S5, 3525A1C726, 3525A1C6N0, 3525A1C7BH, 3525A1C6WG, 3525A1C641, 3525A1C71G, 3525AA50Z5  
 IWM #: WSUMW0033307, WSUMW0033786, WSUMW0033663, WSUMW0033550, WSUMW0033039, WSUMW0032888, WSUMW0032581, WSUMW0058630  
 ATC ASSET #: 98575

LATITUDE: 40°48'49.68"N (40.8138°)  
 LONGITUDE: 96°59'36.96"W (-96.9936°)

TOWER OWNER: AMERICAN TOWER COMPANY  
 10 PRESIDENTIAL WAY  
 WOBURN, MA 01801

GROUND OWNER: CHRISTENSEN/NICHOLAS & KASSONDR  
 1621 W GARFIELD ST  
 LINCOLN, NE 68522-1556

APPLICANT: AT&T WIRELESS

AT&T PROJECT MANAGER: SHAMMIKA CHISOLM  
 sc872r@att.com

AT&T CONSTRUCTION MANAGER: PAUL COOK  
 pc1464@att.com

PROJECT CONSULTANTS

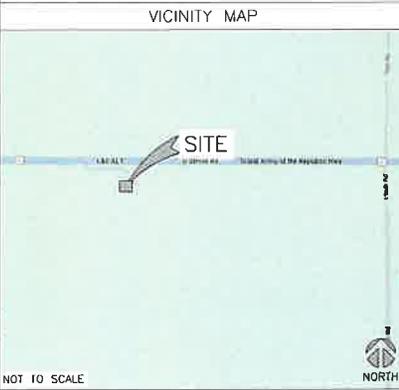
ENGINEER: FULLERTON ENGINEERING CONSULTANTS, LLC  
 ADDRESS: 1100 E. WOODFIELD ROAD, SUITE 500  
 SCHAMBURG, ILLINOIS 60173

CONTACT: LISA LAVICKA  
 PHONE: (847) 908-8400  
 EMAIL: llavicka@fullerton-us.com

# AT&T MOBILITY

SEE AMERICAN TOWER CORPORATION  
 MOUNT ANALYSIS REPORT  
 DATED 01/02/26

**PROJECT :** E/// MODERNIZATION  
**SITE # :** OMAHNEU1156  
**FA # :** 10147225  
**PTN # :** 3525A1C7S5, 3525A1C726, 3525A1C6N0, 3525A1C7BH, 3525A1C6WG, 3525A1C641, 3525A1C71G, 3525AA50Z5  
**IWM # :** WSUMW0033307, WSUMW0033786, WSUMW0033663, WSUMW0033550, WSUMW0033039, WSUMW0032888, WSUMW0032581, WSUMW0058630  
**ATC ASSET#:** 98575  
**JURISDICTION :** COUNTY OF SEWARD, NE  
**SITE NAME :** MILFORD  
**ADDRESS :** 2015 O STREET RD  
 PLEASANT DALE, NE 68423-9036



NOT TO SCALE

NOT TO SCALE

**DRIVING DIRECTIONS**

DIRECTIONS FROM AT&T ADDRESS: 7900 XERXES AVE S #301, BLOOMINGTON, MN 55431:  
 GET ON I-35W S FROM AMERICAN BLVD W, PENN AVE S AND W 82ND ST  
 FOLLOW I-35 S AND I-80 W TO NE-103 S IN PRECINCT 1. TAKE EXIT 388 FROM I-80 W  
 TAKE US-6 W TO THE DESTINATION. THE DESTINATION WILL BE ON THE LEFT.



**CODE COMPLIANCE**

- 2018 INTERNATIONAL BUILDING CODE
- 2023 NATIONAL ELECTRICAL CODE
- IIA/LIA-222-H STANDARDS

**DRAWING INDEX**

11	TITLE SHEET
SP1	NOTES & SPECIFICATIONS
A1	COMPOUND PLAN
A2	EQUIPMENT PLAN
A3	TOWER ELEVATION
A4	ANTENNA PLAN
A5	ANTENNA & CABLE CONFIGURATION
A6/A8	EQUIPMENT DETAILS
A9	MOUNTING DETAILS
A10	CABLE NOTES & COLOR CODING
LT	GROUNDING DETAILS
R1/R2	SUPPLEMENTAL
ATTACHED	DE111

**SCOPE OF WORK**

THIS IS NOT AN ALL INCLUSIVE LIST. CONTRACTOR SHALL UTILIZE SPECIFIED EQUIPMENT PART OR ENGINEER APPROVED EQUIVALENT. CONTRACTOR SHALL VERIFY ALL NEEDED EQUIPMENT TO PROVIDE A FUNCTIONAL SITE. THE PROJECT GENERALLY CONSISTS OF THE FOLLOWING:

**REMOVE WORK:**

- REMOVE (1) EXISTING SECTOR FRAME (GAMA SECTOR)
- REMOVE (2) EXISTING MOUNTING PIPES
- (1) PER SECTOR IN POSITION 4 (TYP OF 3 SECTORS)
- RELOCATE (9) EXISTING MOUNTING PIPES
- (3) PER SECTOR (TYP OF 3 SECTORS)
- REMOVE (6) EXISTING SBHH-10650 ANTENNAS
- (2) PER SECTOR IN POSITION 2 & 3 (TYP OF 3 SECTORS)
- REMOVE (2) EXISTING EPD-584UB-2 ANTENNAS
- (1) PER SECTOR IN POSITION 1 (TYP OF 3 SECTORS)
- REMOVE (1) EXISTING 742 215-00 ANTENNAS
- (1) PER SECTOR IN POSITION 4 (TYP OF 3 SECTORS)
- REMOVE (6) EXISTING RRH UNITS
- (1) PER SECTOR IN POSITION 1, 2 & 3 (TYP OF 3 SECTORS)
- REMOVE (1) EXISTING TMA192JB68-J1-43 IMA UNITS
- (1) PER SECTOR IN POSITION 4 (TYP OF 3 SECTORS)
- REMOVE (1) EXISTING DC6-48-60-18-BC RAYCAP UNIT
- REMOVE (6) EXISTING 1-5/8" COAX CABLES
- INSTALL (3) PROPOSED ROSENBERGER 120816 (OMA-UBTULBULBHP/6516/16/21/21) ANTENNAS
- (1) PER SECTOR IN POSITION 1 (TYP OF 3 SECTORS)
- INSTALL (2) PROPOSED ARG472 B77G B77M ANTENNAS
- (1) PER SECTOR IN POSITION 2 (TYP OF 3 SECTORS)
- INSTALL (3) PROPOSED CELLMAX 120716 (OMA-UBTULBULBHP/6517/17/21/21/21) ANTENNAS
- (1) PER SECTOR IN POSITION 3 (TYP OF 3 SECTORS)
- INSTALL (3) PROPOSED ERICSSON 4472 B12A RRH UNITS
- (1) PER SECTOR IN POSITION 1 (TYP OF 3 SECTORS)
- INSTALL (1) PROPOSED ERICSSON 4471 B30 RRH UNITS
- (1) PER SECTOR IN POSITION 1 (TYP OF 3 SECTORS)
- INSTALL (3) PROPOSED ERICSSON 4890 B25/BB5 RRH UNITS
- (1) PER SECTOR IN POSITION 3 (TYP OF 3 SECTORS)
- INSTALL (2) PROPOSED ERICSSON 4894 B14/B25 RRH UNITS
- (1) PER SECTOR IN POSITION 3 (TYP OF 3 SECTORS)
- INSTALL (6) PROPOSED COMMSCOPE RR-A2 RIBB BRACKETS OR APPROVED EQUIVALENT
- (2) PER SECTOR IN POSITION 1 & 3 ON V-RINGS OF SECTOR FRAME (TYP OF 3 SECTORS)
- INSTALL (1) PROPOSED DC6-48-60-24-BC-1V RAYCAP UNIT
- INSTALL (1) PROPOSED 0.40" (24 PAIR) FIBER TRUNK
- INSTALL (2) PROPOSED 0.98" 6 AWG 6 DC TRUNKS
- INSTALL (6) PROPOSED P2 (2.375" X 120") MOUNTING PIPES
- (2) PER SECTOR ON V-RINGS OF SECTOR FRAME (TYP OF 3 SECTORS)
- INSTALL (6) PROPOSED PIPE-TO-PIPE CLAMP KITS
- (2) PER SECTOR IN POSITION 2 & 3 (TYP OF 3 SECTORS)
- INSTALL (6) PROPOSED P2 (2.375" X 120") MOUNTING PIPES
- (2) PER SECTOR IN POSITION 2 & 3 (TYP OF 3 SECTORS)
- INSTALL APPROVED HOISTING GRIP KIT AND ANCHOR

**GROUND WORK:**

- REIN (1) VERIFY STD -18VDC NETSUME 7100 PLANT 1000A
- REIN (12) R48-2000H3 RECTIFIERS
- REIN (4) C48/24-1500 CONVERTERS
- REIN (8) H170ET BATTERIES
- INSTALL BREAKERS AS NEEDED PER A11-CEM-18002

**CIVIL:**

- REIN (1) DC12-48-60-RR-RR RAYCAP UNIT
- INSTALL (1) DC12-48-60-RR-RR RAYCAP UNIT
- INSTALL E/// EQUIPMENT IN EXISTING HF RACK

**REFERENCE MATERIALS**

- THESE DRAWINGS ARE BASED AT&T SCOPING DOCUMENT DATED 07/14/25
- REVISIONS PENDING CONTRACTOR TO USE LATEST VERSION WITH IWF'S PER SCOPE OF WORK.

**SPECIAL NOTES**

- ALL WORK SHALL BE INSTALLED IN CONFORMANCE WITH CURRENT AT&T CONSTRUCTION INSTALLATION GUIDE
- EXISTING CONDITIONS WILL BE CHANGED & VERIFIED IN FIELD. IF SIGNIFICANT DEVIATIONS OR DETERIORATION ARE ENCOUNTERED AT THE TIME OF CONSTRUCTION, A REPAIR PERMIT WILL BE OBTAINED & CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY
- THESE DRAWINGS ARE 11"x17" & SCALABLE ON FULL SHEET SIZE
- STATEMENT THAT COMPLIANCE WITH THE ENERGY CODE IS NOT REQUIRED
- SCOPE OF WORK DOES NOT INVOLVE MODIFICATIONS TO EXTERIOR ENVELOPE OF BUILDING, HVAC SYSTEMS OR ELECTRICAL LIGHTING

**DO NOT SCALE DRAWINGS**

CONTRACTOR SHALL VERIFY ALL PLANS & EXISTING DIMENSIONS & CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ARCHITECT OR ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.



**Fullerton**  
 1100 E WOODFIELD ROAD, SUITE 500  
 SCHAMBURG, ILLINOIS 60173  
 TEL: 847-908-8400  
 COAST CARRY  
 www.fullerton-us.com

**REVISIONS**

REV	DATE	DESCRIPTION	INITIALS
A	12/15/25	ISSUED FOR REVIEW	IWF
B	01/09/26	ISSUED FOR REVIEW	RV
C	01/12/26	ISSUED FOR REVIEW	RV
D	01/16/26	ISSUED FOR REVIEW	RV
D	01/20/26	ISSUED FOR CONSTRUCTION	EC

NOT FOR CONSTRUCTION UNLESS LABELLED AS FOR CONSTRUCTION

NOT FOR CONSTRUCTION UNLESS LABELLED AS FOR CONSTRUCTION

I, DANIEL W. SMITH, AM THE COORDINATING PROFESSIONAL FOR THE AT&T 10147225 MILFORD PROJECT

E/// MODERNIZATION  
 10147225  
 MILFORD  
 2015 O STREET RD  
 PLEASANT DALE, NE  
 68423-9036

SHEET TITLE

**TITLE SHEET**

SHEET NUMBER

**T1**

THE INFORMATION CONTAINED IN THIS SET OF DRAWINGS IS UNLESS OTHERWISE SPECIFIED TO BE THE PROPERTY OF FULLERTON ENGINEERING CONSULTANTS, LLC. NO USE OR REPRODUCTION OF THIS INFORMATION IS PERMITTED WITHOUT THE WRITTEN PERMISSION OF FULLERTON ENGINEERING CONSULTANTS, LLC.

THE INFORMATION CONTAINED ON THIS SHEET OF CONSTRUCTION DOCUMENTS IS FURNISHED BY AND UNDER THE AUTHORITY OF THE ARCHITECT. ANY USE OF THIS INFORMATION FOR ANY OTHER PURPOSE IS STRICTLY PROHIBITED.

- GENERAL CONSTRUCTION**
- FOR THE PURPOSE OF CONSTRUCTION DRAWINGS, THE FOLLOWING DEFINITIONS SHALL APPLY:  
CONTRACTOR/CM - ARCHITECT  
SUB-CONTRACTOR - PER TRADE  
OWNER - AT&T WIRELESS
  - ALL SITE WORK SHALL BE COMPLETED AS INDICATED ON THE DRAWINGS AND AT&T PROJECT SPECIFICATIONS
  - GENERAL CONTRACTOR SHALL VISIT THE SITE AND SHALL FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING THE PROPOSED WORK AND SHALL MAKE PROVISIONS GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH ALL CONTRACT DOCUMENTS, FIELD CONDITIONS, DIMENSIONS, AND CONFIRMING THAT THE WORK MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
  - ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. GENERAL CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF WORK.
  - ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES, AND APPLICABLE REGULATIONS.
  - UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
  - PLANS ARE NOT TO BE SCALED. THESE PLANS ARE INTENDED TO BE A DIAGRAMMATIC OUTLINE ONLY UNLESS OTHERWISE NOTED. DIMENSIONS SHOWN ARE TO FINISH SURFACES UNLESS OTHERWISE NOTED. SPACING BETWEEN EQUIPMENT IS THE MINIMUM REQUIRED CLEARANCE. THEREFORE, IT IS CRITICAL TO FIELD VERIFY DIMENSIONS. SHOULD THERE BE ANY QUESTIONS REGARDING THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A CLARIFICATION FROM THE ENGINEER PRIOR TO PROCEEDING WITH THE WORK. DETAILS ARE INTENDED TO SHOW DESIGN INTENT. MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF WORK AND PREPARED BY THE ENGINEER PRIOR TO PROCEEDING WITH WORK.
  - THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
  - IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION WITH APPROVAL BY THE ENGINEER PRIOR TO PROCEEDING.
  - GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF WORK AREA, ADJACENT AREAS AND BUILDING OCCUPANTS THAT ARE LIKELY TO BE AFFECTED BY THE WORK UNDER THIS CONTRACT. WORK SHALL CONFORM TO ALL OSHA REQUIREMENTS AND THE LOCAL JURISDICTION.
  - GENERAL CONTRACTOR SHALL COORDINATE WORK AND SCHEDULE WORK ACTIVITIES WITH OTHER DISCIPLINES.
  - ERECTION SHALL BE DONE IN A WORKMANLIKE MANNER BY COMPETENT EXPERIENCED WORKMAN IN ACCORDANCE WITH APPLICABLE CODES AND THE BEST ACCEPTED PRACTICE. ALL MEMBERS SHALL BE LAID PLUMB AND TRUE AS INDICATED ON THE DRAWINGS.
  - SEAL PENETRATIONS THROUGH FIRE RATED AREAS WITH UL LISTED MATERIALS APPROVED BY LOCAL JURISDICTION. CONTRACTOR SHALL KEEP AREA CLEAN, HAZARD FREE, AND DISPOSE OF ALL DEBRIS.
  - WORK PREVIOUSLY COMPLETED IS REPRESENTED BY LIGHT SHADED LINES AND NOTES. THE SCOPE OF WORK FOR THIS PROJECT IS REPRESENTED BY DARK SHADED LINES AND NOTES. CONTRACTOR SHALL NOTIFY THE GENERAL CONTRACTOR OF ANY EXISTING CONDITIONS THAT DEVIATE FROM THE DRAWINGS PRIOR TO BEGINNING CONSTRUCTION.
  - CONTRACTOR SHALL PROVIDE WRITTEN NOTICE TO THE CONSTRUCTION MANAGER 48 HOURS PRIOR TO COMMENCEMENT OF WORK.
  - THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
  - THE CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
  - GENERAL CONTRACTOR SHALL COORDINATE AND MAINTAIN ACCESS FOR ALL TRADES AND CONTRACTORS TO THE SITE AND/OR BUILDING.
  - THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SECURITY OF THE SITE FOR THE DURATION OF CONSTRUCTION UNTIL JOB COMPLETION.
  - THE GENERAL CONTRACTOR SHALL MAINTAIN IN GOOD CONDITION ONE COMPLETE SET OF PLANS WITH ALL REVISIONS, ADDENDA, AND CHANGE ORDERS ON THE PREMISES AT ALL TIMES.
  - THE GENERAL CONTRACTOR SHALL PROVIDE PORTABLE FIRE EXTINGUISHERS WITH A RATING OF NOT LESS THAN 2-A OR 2-A-10-B-C AND SHALL BE WITHIN 25 FEET OF TRAVEL DISTANCE TO ALL PORTIONS OF WHERE THE WORK IS BEING COMPLETED DURING CONSTRUCTION.
  - ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY THE ENGINEER. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS SHALL INCLUDE BUT NOT BE LIMITED TO: A) FALL PROTECTION, B) CONFINED SPACE, C) ELECTRICAL SAFETY, AND D) TRENCHING & EXCAVATION.
  - ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED, CAPPED, PLUGGED OR OTHERWISE DISCONNECTED AT POINTS WHICH WILL NOT INTERFERE WITH THE

- EXECUTION OF THE WORK, AS DIRECTED BY THE RESPONSIBLE ENGINEER, AND SUBJECT TO THE APPROVAL OF THE OWNER AND/OR LOCAL UTILITIES.
  - THE AREAS OF THE OWNER'S PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION.
  - CONTRACTOR SHALL MINIMIZE DISTURBANCE TO THE EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE FEDERAL AND LOCAL JURISDICTION FOR EROSION AND SEDIMENT CONTROL.
  - NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUNDING, FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
  - THE SUBGRADE SHALL BE BROUGHT TO A SMOOTH UNIFORM GRADE AND COMPACTED TO 95 PERCENT STANDARD PROCTOR DENSITY UNDER PAVEMENT AND STRUCTURES AND 80 PERCENT STANDARD PROCTOR DENSITY IN OPEN SWIM. ALL TRENCHES IN PUBLIC RIGHT OF WAY SHALL BE BACKFILLED WITH FLOWABLE FILL OR OTHER MATERIAL PRE-APPROVED BY THE LOCAL JURISDICTION.
  - ALL NECESSARY RUBBISH, STUMPS, DEBRIS, STICKS, STONES, AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LAWFUL MANNER.
  - ALL BLUEPRINTS, OPERATING AND MAINTENANCE MANUALS, CATALOGS, SHOP DRAWINGS, AND OTHER DOCUMENTS SHALL BE TURNED OVER TO THE GENERAL CONTRACTOR AT COMPLETION OF CONSTRUCTION AND PRIOR TO PAYMENT.
  - CONTRACTOR SHALL SUBMIT A COMPLETE SET OF AS-BUILT REVISIONS TO THE GENERAL CONTRACTOR UPON COMPLETION OF PROJECT AND PRIOR TO FINAL PAYMENT.
  - CONTRACTOR SHALL LEAVE PREMISES IN A CLEAN CONDITION.
  - THE PROPOSED FACILITY WILL BE UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SEWER SERVICE, AND IS NOT FOR HUMAN HABITAT (NO HANDICAP ACCESS REQUIRED).
  - OCCUPANCY IS LIMITED TO PERIODIC MAINTENANCE AND INSPECTION, APPROXIMATELY 2 TIMES PER MONTH, BY AT&T TECHNICIANS.
  - NO OUTDOOR STORAGE OR SOLID WASTE CONTAINERS ARE PROPOSED.
  - ALL MATERIAL SHALL BE FURNISHED AND WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST REVISION AT&T MOBILITY GROUNDING STANDARD "TECHNICAL SPECIFICATION FOR CONSTRUCTION OF GSM/GPRS WIRELESS SITES" AND "TECHNICAL SPECIFICATION FOR FACILITY GROUNDING" IN CASE OF A CONFLICT BETWEEN THE CONSTRUCTION SPECIFICATION AND THE DRAWINGS, THE DRAWINGS SHALL GOVERN.
  - CONTRACTORS SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS REQUIRED FOR CONSTRUCTION. IF CONTRACTOR CANNOT OBTAIN A PERMIT, THEY MUST NOTIFY THE GENERAL CONTRACTOR IMMEDIATELY.
  - CONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
  - INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED FROM SITE VISITS AND/OR DRAWINGS PROVIDED BY THE SITE OWNER. CONTRACTORS SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
  - NO WHITE STROBE LIGHTS ARE PERMITTED. LIGHTING IF REQUIRED, WILL MEET FAA STANDARDS AND REQUIREMENTS.
- ANTENNA MOUNTING**
- DESIGN AND CONSTRUCTION OF ANTENNA SUPPORTS SHALL CONFORM TO CURRENT ANSI/TIA-222 OR APPLICABLE LOCAL CODES.
  - ALL STEEL MATERIALS SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 "ZINC (HOT-DIP GALVANIZED) COATINGS ON IRON AND STEEL PRODUCTS", UNLESS NOTED OTHERWISE.
  - DAMAGED GALVANIZED SURFACES SHALL BE REPAIRED BY COLD GALVANIZING IN ACCORDANCE WITH ASTM A780.
  - ALL ANTENNA MOUNTS SHALL BE INSTALLED WITH LOCK NUTS, DOUBLE NUTS AND SHALL BE TORQUED TO MANUFACTURER'S RECOMMENDATIONS.
  - CONTRACTOR SHALL INSTALL ANTENNA PER MANUFACTURER'S RECOMMENDATION FOR INSTALLATION AND GROUNDING.
  - ALL UNUSED PORTS ON ANY ANTENNAS SHALL BE TERMINATED WITH A 50-OHM LOAD TO ENSURE ANTENNAS PERFORM AS DESIGNED.
  - PRIOR TO SETTING ANTENNA AZIMUTHS AND DOWNTILTS, ANTENNA CONTRACTOR SHALL CHECK THE ANTENNA MOUNT FOR TIGHTNESS AND ENSURE THAT THEY ARE PLUMB. ANTENNA AZIMUTHS SHALL BE SET FROM TRUE NORTH AND BE ORIENTED WITHIN +/- 5% AS DEFINED BY THE RFDS. ANTENNA DOWNTILTS SHALL BE WITHIN +/- 0.5% AS DEFINED BY THE RFDS. REFER TO ND-00246.
  - DEBRIS FROM THE TMA'S MUST TERMINATE TO OPPOSITE POLARIZATION'S IN EACH SECTOR.
  - CONTRACTOR SHALL RECORD THE SERIAL #, SECTOR, AND POSITION OF EACH ACTUATOR INSTALLED AT THE ANTENNAS AND PROVIDE THE INFORMATION TO AT&T.
  - TMA'S SHALL BE MOUNTED ON PIPE DIRECTLY BEHIND ANTENNAS AS CLOSE TO ANTENNA AS FEASIBLE IN A VERTICAL POSITION.
- TORQUE REQUIREMENTS**
- ALL RF CONNECTIONS SHALL BE TIGHTENED BY A TORQUE WRENCH

- ALL RF CONNECTIONS, GROUNDING HARDWARE AND ANTENNA HARDWARE SHALL HAVE A TORQUE MARK INSTALLED IN A CONTINUOUS STRAIGHT LINE FROM BOTH SIDES OF THE CONNECTION.  
A. RF CONNECTION BOTH SIDES OF THE CONNECTOR  
B. GROUNDING AND ANTENNA HARDWARE ON THE NUT SIDE STARTING FROM THE THREADS TO THE SOLID SURFACE. EXAMPLE OF SOLID SURFACE: GROUND BAR, ANTENNA BRACKET METAL.
- FIBER & POWER CABLE MOUNTING**
- THE FIBER OPTIC TRUNK CABLES SHALL BE INSTALLED INTO CONDUITS, CHANNEL CABLE TRAYS, OR CABLE TRAY. WHEN INSTALLING FIBER OPTIC TRUNK CABLES INTO A CABLE TRAY SYSTEM, THEY SHALL BE INSTALLED INTO AN INTER DUCT AND A PARTITION BARRIER SHALL BE INSTALLED BETWEEN THE FIBER CABLES AND THE INTER DUCT IN ORDER TO SEGREGATE CABLE TYPES. OPTIC FIBER TRUNK CABLES SHALL HAVE APPROVED CABLE RESTRAINTS EVERY (60) SIXTY FEET AND SECURELY FASTENED TO THE CABLE TRAY SYSTEM. NFPA 70 (NEC) ARTICLE 770 RULES SHALL APPLY.
  - THE TYPE TC-ER CABLES SHALL BE INSTALLED INTO CONDUITS, CHANNEL CABLE TRAYS, OR CABLE TRAY AND SHALL BE SECURED AT INTERVALS NOT EXCEEDING (6) SIX FEET. AN EXCEPTION: WHERE TYPE TC-ER CABLES ARE NOT SUBJECT TO PHYSICAL DAMAGE, CABLES SHALL BE PERMITTED TO MAKE A TRANSITION BETWEEN CONDUITS, CHANNEL CABLE TRAYS, OR CABLE TRAY WHICH ARE SERVING UTILIZATION EQUIPMENT ON DEVICES, A DISTANCE (6) SIX FEET SHALL NOT BE EXCEEDED WITHOUT CONTINUOUS SUPPORTING. NFPA 70 (NEC) ARTICLES 336 AND 392 RULES SHALL APPLY.
  - WHEN INSTALLING OPTIC FIBER TRUNK CABLES OR TYPE TC-ER CABLES INTO CONDUITS, NFPA 70 (NEC) ARTICLE 300 RULES SHALL APPLY.
- COAXIAL CABLE NOTES**
- TYPES AND SIZES OF THE ANTENNA CABLE ARE BASED ON ESTIMATED LENGTHS PRIOR TO ORDERING CABLE. CONTRACTOR SHALL VERIFY ACTUAL LENGTH BASED ON CONSTRUCTION LAYOUT AND NOTIFY THE PROJECT MANAGER IF ACTUAL LENGTHS EXCEED ESTIMATED LENGTHS.
  - CONTRACTOR SHALL VERIFY THE DOWN-TILT OF EACH ANTENNA WITH A DIGITAL LEVEL.
  - CONTRACTOR SHALL CONFIRM COAX COLOR CODING PRIOR TO CONSTRUCTION.
  - ALL JUMPERS TO THE ANTENNAS FROM THE MAIN TRANSMISSION LINE SHALL BE 1/2" DIA LDF AND SHALL NOT EXCEED 6'-0"
  - ALL COAXIAL CABLE SHALL BE SECURED TO THE DESIGNED SUPPORT STRUCTURE, IN AN APPROVED MANNER, AT DISTANCES NOT TO EXCEED 4'-0" OC.
  - CONTRACTOR SHALL FOLLOW ALL MANUFACTURER'S RECOMMENDATIONS REGARDING BOTH THE INSTALLATION AND GROUNDING OF ALL COAXIAL CABLES, CONNECTORS, ANTENNAS, AND ALL OTHER EQUIPMENT.
  - CONTRACTOR SHALL GROUND ALL EQUIPMENT INCLUDING ANTENNAS, RET MOTORS, TMA'S, COAX CABLES, AND RET CONTROL CABLES AS A COMPLETE SYSTEM. GROUNDING SHALL BE EXECUTED BY QUALIFIED WORKMEN IN COMPLIANCE WITH MANUFACTURER'S SPECIFICATION AND RECOMMENDATION.
  - CONTRACTOR SHALL PROVIDE STRAIN-RELIEF AND CABLE SUPPORTS FOR ALL CABLE ASSEMBLIES, COAX CABLES, AND RET CONTROL CABLES. CABLE STRAIN-RELIEFS AND CABLE SUPPORTS SHALL BE APPROVED FOR THE PURPOSE. INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
  - CONTRACTOR TO VERIFY THAT EXISTING COAX HANGERS ARE STACKABLE SNAP IN HANGERS. IF EXISTING HANGERS ARE NOT STACKABLE SNAP IN HANGERS THE CONTRACTOR SHALL REPLACE EXISTING HANGERS WITH NEW SNAP IN HANGERS IF APPLICABLE.
- GENERAL CABLE AND EQUIPMENT NOTES**
- CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY ANTENNA, TMA'S, DIPLEXERS, AND COAX CONFIGURATION, MAKE AND MODELS PRIOR TO INSTALLATION.
  - ALL CONNECTIONS FOR HANGERS, SUPPORTS, BRACING, ETC. SHALL BE INSTALLED PER TOWER MANUFACTURER'S RECOMMENDATIONS.
  - CONTRACTOR SHALL REFERENCE THE TOWER STRUCTURAL ANALYSIS/DESIGN DRAWINGS FOR DIRECTIONS ON CABLE DISTRIBUTION/ROUTING.
  - ALL OUTDOOR RF CONNECTORS/CONNECTIONS SHALL BE WEATHERPROOFED. EXCEPT THE RET CONNECTORS, USING BUTYL TAPE AFTER INSTALLATION AND FINAL CONNECTIONS ARE MADE BUTYL TAPE SHALL HAVE A MINIMUM OF ONE-HALF TAPE WIDTH OVERLAP ON EACH TURN AND EACH LAYER SHALL BE WRAPPED THREE TIMES WEATHERPROOFING SHALL BE SMOOTH WITHOUT BUCKLING, BUTYL BLEEDING IS NOT ALLOWED.
  - IF REQUIRED TO PAINT ANTENNAS AND/OR COAX:  
A. TEMPERATURE SHALL BE ABOVE 50° F.  
B. PAINT COLOR MUST BE APPROVED BY BUILDING OWNER/LANDLORD  
C. FOR REGULATED TOWERS, FAA/FCC APPROVED PAINT IS REQUIRED  
D. DO NOT PAINT OVER COLOR CODING OR ON EQUIPMENT MODEL NUMBERS.
  - ALL CABLES SHALL BE GROUNDING WITH COAXIAL CABLE GROUND KITS FOLLOW THE MANUFACTURER'S RECOMMENDATIONS  
A. GROUNDING AT THE ANTENNA LEVEL  
B. GROUNDING AT MID LEVEL TOWERS WHICH ARE OVER 200'-0", ADDITIONAL CABLE GROUNDING REQUIRED  
C. GROUNDING AT BASE OF TOWER PRIOR TO TURNING HORIZONTAL  
D. GROUNDING OUTSIDE THE EQUIPMENT SHELTER AT ENTRY PORT  
E. GROUNDING INSIDE THE EQUIPMENT SHELTER AT THE ENTRY PORT
  - ALL PROPOSED GROUND BAR DOWNLOADS ARE TO BE TERMINATED TO THE EXISTING ADJACENT GROUND BAR DOWNLOADS A MINIMUM DISTANCE OF 4'-0" BELOW GROUND BAR. TERMINATIONS MAY BE EXOTHERMIC OR COMPRESSION.







1160 W WOODFIELD ROAD, SUITE 500  
SCHUMPKER, ILLINOIS 60131  
TEL: 847-908-8400  
COA# CAB892  
www.fullerton.com

REV	DATE	DESCRIPTION	INITIALS
A	12/15/25	ISSUED FOR REVIEW	RV
B	01/09/26	ISSUED FOR REVIEW	RV
C	01/12/26	ISSUED FOR REVIEW	RV
D	01/16/26	ISSUED FOR REVIEW	RV
E	01/20/26	ISSUED FOR CONSTRUCTION	EC

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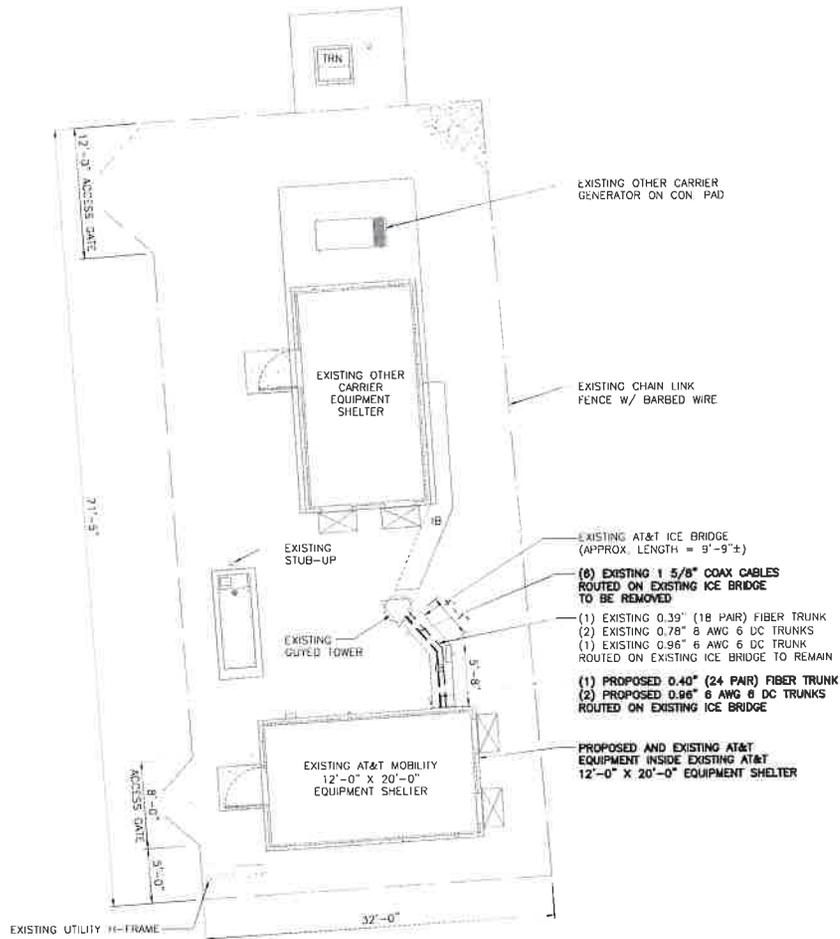


E/// MODERNIZATION  
10147225  
MILFORD  
2015 O STREET RD  
PILLSBURI DALE, NE  
68423-9036

SHEET TITLE  
**NOTES & SPECIFICATIONS**

SHEET NUMBER  
**SP1**

THE INFORMATION CONTAINED IN THIS SET OF CONSTRUCTION DOCUMENTS IS PROPRIETARY AND CONFIDENTIAL. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO THE SERVICES SPECIFICALLY PROVIDED IS STRICTLY PROHIBITED.



COMPOUND PLAN

0 1.5' 3' 5'  
SCALE: 3/16" = 1'-0" (24x36)  
(OR) 3/32" = 1'-0" (11x17)



1

SITE PHOTO 1

3



REVISIONS				
REV	DATE	DESCRIPTION	INITIALS	BY
A	12/15/20	ISSUED FOR REVIEW	RV	
B	01/09/26	ISSUED FOR REVIEW	RV	
C	01/12/26	ISSUED FOR REVIEW	RV	
D	01/16/26	ISSUED FOR REVIEW	RV	
D	01/20/26	ISSUED FOR CONSTRUCTION	CC	

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SITE PHOTO 2

2



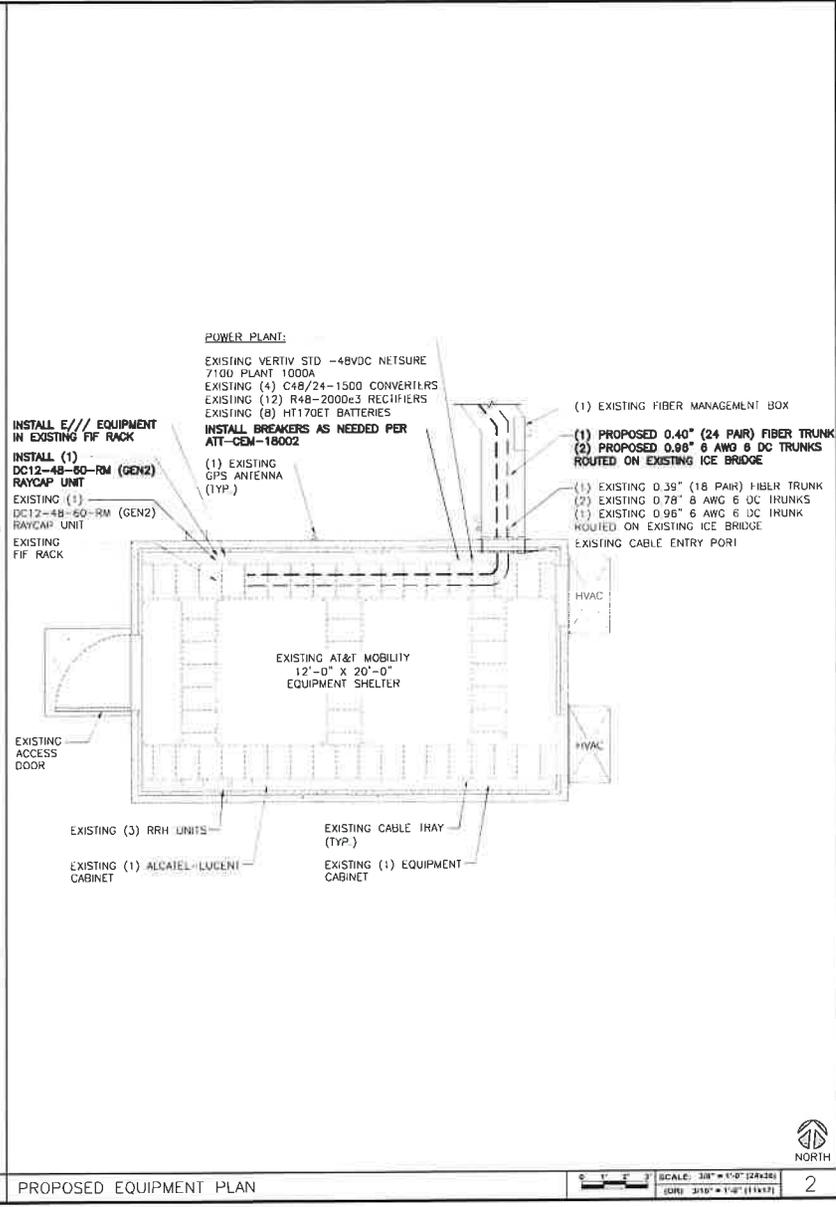
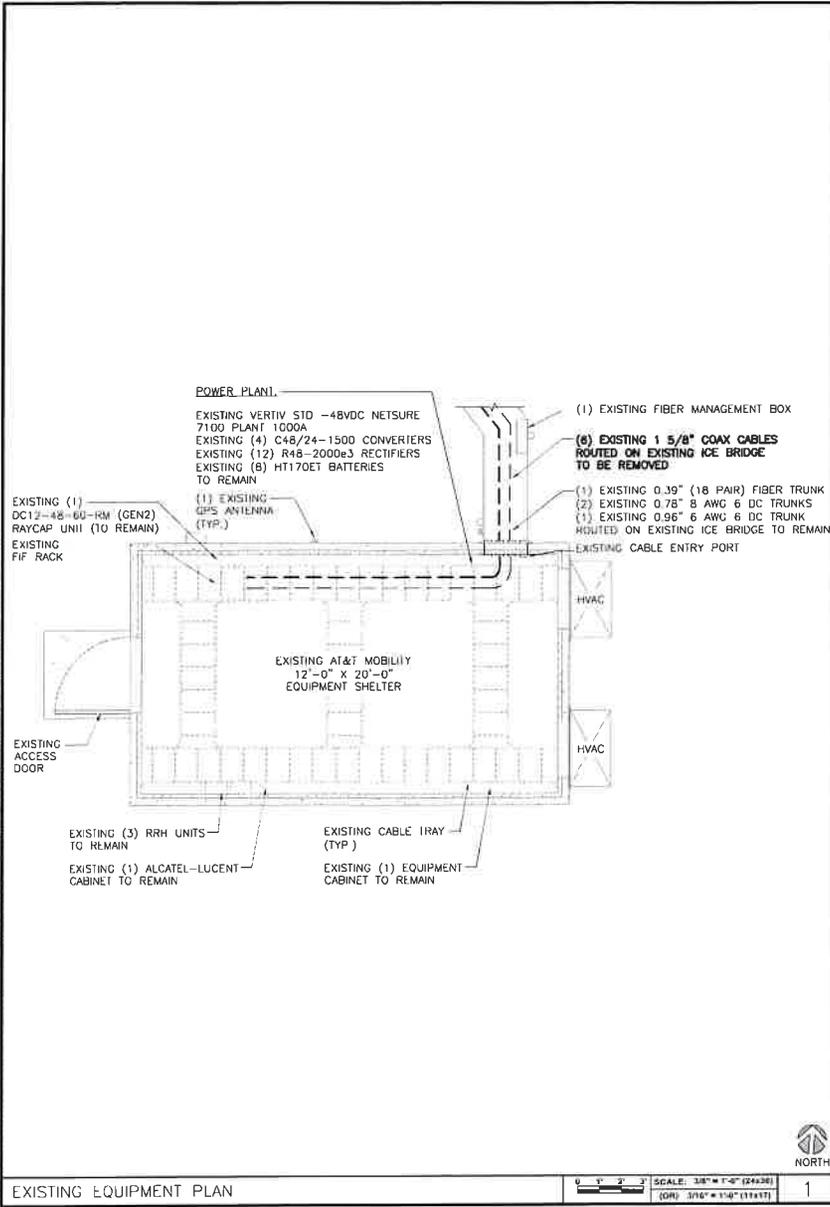
SITE PHOTO 1

E/// MODERNIZATION  
10147225  
MILFORD  
2015 O STREET RD  
PLEASANT DALE, NE  
68423-9036

SHEET TITLE  
**COMPOUND PLAN**

SHEET NUMBER  
**A1**

THE INFORMATION CONTAINED IN THIS SET OF CONSTRUCTION DOCUMENTS IS PROPRIETARY TO FULLERTON. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO CARRIER SERVICES IS STRICTLY PROHIBITED.





AT&T  
100 CENTENNIAL AVE. S  
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AMERICAN TOWER®



Fullerton  
COMMUNICATIONS CONSTRUCTION

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DANIEL W. SMITH  
 E-15555  
 EXP. 12/31/2026

E/// MODERNIZATION  
 10147225  
 MILFORD  
 2015 O STREET RD  
 PLEASANT DALE, NE  
 68423-9036

SHEET TITLE  
**EQUIPMENT PLAN**

SHEET NUMBER  
**A2**

EXISTING EQUIPMENT PLAN

PROPOSED EQUIPMENT PLAN

• TOWER STRUCTURAL CALCULATIONS PREPARED BY OTHERS. CONTRACTOR TO VERIFY WITH PROJECT MANAGER TO OBTAIN A COPY

• CONTRACTOR TO REFER TO TOWER STRUCTURAL CALCULATIONS FOR ADDITIONAL LOADS. NO ERECTION OR MODIFICATION OF TOWER SHALL BE MADE WITHOUT APPROVAL OF STRUCTURAL ENGINEER.

- 1/ EXISTING HIGHEST APPURTENANCE  
ELEV. = 185'-8"± AGL
- 1/ EXISTING GUYED TOWER  
ELEV. = 180'-0"± AGL
- 1/ EXISTING CARRIER ANTENNAS  
ELEV. = 178'-0"± AGL

- 1/ EXISTING AT&T PANEL ANTENNAS  
ELEV. = 150'-0"± AGL
- 1/ EXISTING AT&T PANEL ANTENNAS  
ELEV. = 146'-144" AGL

- 1/ EXISTING CARRIER ICE SHIELD  
ELEV. = 103'-0"± AGL

- 1/ EXISTING CARRIER MW DISH  
ELEV. = 94'-0"± AGL

- 1/ EXISTING CARRIER MW DISH  
ELEV. = 75'-0"± AGL

EXISTING GUYED TOWER

(6) EXISTING 1 5/8" COAX CABLES ROUTED ON EXISTING CABLE SUPPORTS TO BE REMOVED

- (1) EXISTING 0.39" (18 PAIR) FIBER TRUNK
- (2) EXISTING 0.78" 8 AWG 6 DC TRUNKS
- (1) EXISTING 0.96" 6 AWG 6 DC TRUNK ROUTED ON EXISTING CABLE SUPPORTS TO REMAIN

- (2) EXISTING SECTOR FRAMES TO REMAIN (ALPHA & BETA SECTOR)
- (1) EXISTING SECTOR FRAME TO BE ROTATED TO 280 DEG. TO ALIGN WITH ANTENNA AZIMUTHS (GAMMA SECTOR)
- (8) EXISTING SBHHH-10858 ANTENNAS TO BE REMOVED (TYP. 2 PER SECTOR)
- (3) EXISTING 742 215-00 ANTENNAS TO BE REMOVED (TYP. 1 PER SECTOR)
- (3) EXISTING EP90-654LBH8-L2 ANTENNAS TO BE REMOVED (TYP. 1 PER SECTOR)
- (3) EXISTING B25 RRH4x30-4R RRH UNITS TO BE REMOVED (TYP. 1 PER SECTOR)
- (3) EXISTING RRH2x40-AWS-RDEM RRH UNITS TO BE REMOVED (TYP. 1 PER SECTOR)
- (3) EXISTING RRH4X25-WCS-4R RRH UNITS TO BE REMOVED (TYP. 1 PER SECTOR)
- (3) EXISTING TMA1923B88-31-43 TMA UNITS TO BE REMOVED (TYP. 1 PER SECTOR)

- (1) EXISTING DC6-48-60-18-BC RAYCAP UNIT TO REMAIN
- (1) EXISTING DC6-48-60-18-BC RAYCAP UNIT TO BE REMOVED
- (3) EXISTING MOUNTING PIPES TO BE REMOVED (TYP. 1 PER SECTOR)
- (9) EXISTING MOUNTING PIPES TO BE RELOCATED (TYP. 3 PER SECTOR)

- 1/ EXISTING HIGHEST APPURTENANCE  
ELEV. = 185'-8"± AGL
- 1/ EXISTING GUYED TOWER  
ELEV. = 180'-0"± AGL
- 1/ EXISTING CARRIER ANTENNAS  
ELEV. = 178'-0"± AGL
- 1/ OF PROPOSED AT&T ANTENNAS  
ELEV. = 149'-6 5/32"± AGL
- 1/ OF PROPOSED AT&T ANTENNAS  
ELEV. = 149'-2 1/2"± AGL
- 1/ OF PROPOSED AT&T ANTENNAS  
ELEV. = 149'-1/4"± AGL

- 1/ OF PROPOSED AT&T PANEL ANTENNAS  
ELEV. = 148'-0"± AGL
- 8/ OF PROPOSED AT&T ANTENNAS  
ELEV. = 148'-5 27/32"± AGL
- 8/ OF PROPOSED AT&T ANTENNAS  
ELEV. = 142'-9 1/2"± AGL
- 8/ OF PROPOSED AT&T ANTENNAS  
ELEV. = 142'-11 3/4"± AGL

- 1/ OF EXISTING CARRIER ICE SHIELD  
ELEV. = 103'-0"± AGL
- 1/ OF EXISTING CARRIER MW DISH  
ELEV. = 94'-0"± AGL
- 1/ OF EXISTING CARRIER MW DISH  
ELEV. = 75'-0"± AGL

NEW HO ANCHOR, GUYED TOWER, 30° FACE TO BE ATTACHED TO EXISTING TOWER MFR: COMMSCOPE PART#: 880674807-036 CONTRACTOR TO VERIFY COMPATIBILITY WITH EXISTING TOWER PRIOR TO INSTALLATION (SEE A7 FOR DETAILS)

EXISTING GUYED TOWER

- (1) PROPOSED 0.40" (24 PAIR) FIBER TRUNK
- (2) PROPOSED 0.96" 8 AWG 6 DC TRUNKS ROUTED ON EXISTING CABLE SUPPORTS
- (1) EXISTING 0.39" (18 PAIR) FIBER TRUNK
- (2) EXISTING 0.78" 8 AWG 6 DC TRUNKS
- (1) EXISTING 0.96" 6 AWG 6 DC TRUNK ROUTED ON EXISTING CABLE SUPPORTS

- (2) EXISTING SECTOR FRAMES (ALPHA & BETA SECTORS)
- ROTATED SECTOR FRAME (GAMMA SECTOR)
- (3) PROPOSED ROSENBERG 120816 (CMA-UBTLBULBHHHP/8518/16/21/21) ANTENNAS (TYP. 1 PER SECTOR)
- (3) PROPOSED AIR6472 B776 B77M ANTENNAS (TYP. 1 PER SECTOR)
- (3) PROPOSED GELLMAX 120718 (CMA-UBTLBULBHHHP/8517/17/21/21/21/21) ANTENNAS (TYP. 1 PER SECTOR)
- (3) PROPOSED ERICSSON 4472 B12A RRH UNITS ON PROPOSED COMMSCOPE RR-FA2 B2B BRACKET (OR APPROVED EQUIVALENT) (TYP. 1 PER SECTOR)
- (3) PROPOSED ERICSSON 4471 B30 RRH UNITS ON PROPOSED COMMSCOPE RR-FA2 B2B BRACKET (OR APPROVED EQUIVALENT) (TYP. 1 PER SECTOR)
- (3) PROPOSED ERICSSON 4890 B25/B68 RRH UNITS ON PROPOSED COMMSCOPE RR-FA2 B2B BRACKET (OR APPROVED EQUIVALENT) (TYP. 1 PER SECTOR)
- (3) PROPOSED ERICSSON 4494 B14/B29 RRH UNITS ON PROPOSED COMMSCOPE RR-FA2 B2B BRACKET (OR APPROVED EQUIVALENT) (TYP. 1 PER SECTOR)
- (1) EXISTING DC6-48-60-18-BC RAYCAP UNIT
- (1) PROPOSED DC6-48-60-24-BC-EV (ENCLOSURE) RAYCAP UNIT
- (6) PROPOSED P2 (2.375" X 120") MOUNTING PIPES IN POSITION 2 AND 3, CONNECTED WITH WITH SITE PRO 1 SC7-U (OR APPROVED EQUIVALENT) CROSSOVER PLATE KITS (TYP. 2 PER SECTOR)
- (6) PROPOSED P2 (2.375" X 120") MOUNTING PIPES ON V-ARMS W/ SITE PRO UB1400 U-BOLTS (TYP. 2 PER SECTOR)
- (6) PROPOSED SITE PRO 1 DCP12K PIPE-TO-PIPE CLAMP KITS IN POSITION 2 AND 3 (TYP. 2 PER SECTOR)

- (1) EXISTING CARRIER ICE SHIELD  
ELEV. = 103'-0"± AGL
- (1) EXISTING CARRIER MW DISH  
ELEV. = 94'-0"± AGL
- (1) EXISTING CARRIER MW DISH  
ELEV. = 75'-0"± AGL

EXISTING GUYED TOWER

- (1) EXISTING CARRIER MW DISH  
ELEV. = 94'-0"± AGL
- (1) EXISTING CARRIER MW DISH  
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- (1) EXISTING CARRIER MW DISH  
ELEV. = 94'-0"± AGL
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ELEV. = 75'-0"± AGL



REV.	DATE	DESCRIPTION	BY	CHK
A	12/15/25	ISSUED FOR REVIEW	RV	
B	01/09/26	ISSUED FOR REVIEW	RV	
C	01/12/26	ISSUED FOR REVIEW	RV	
D	01/16/26	ISSUED FOR REVIEW	RV	
D	01/20/26	ISSUED FOR CONSTRUCTION	CC	

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E/// MODERNIZATION  
10147225  
MILFORD  
2015 O STREET RD  
PLEASANT DALE, NE  
68425-9036

SHEET TITLE

TOWER  
ELEVATION

SHEET NUMBER

**A3**

THE INFORMATION CONTAINED IN THIS SET OF CONSTRUCTION DOCUMENTS IS PROPRIETARY TO AMERICAN TOWER. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO CARRIER SERVICES IS STRICTLY PROHIBITED.

EXISTING TOWER ELEVATION

SCALE  
N.T.S. 1

PROPOSED TOWER ELEVATION

SCALE  
N.T.S. 2

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(3) EXISTING 742 215-00 ANTENNAS TO BE REMOVED (TYP. 1 PER SECTOR)

(1) EXISTING SECTOR FRAME TO BE ROTATED TO 285 DEG. (GAMMA SECTOR)

(6) EXISTING 58NHH-1D85B ANTENNAS TO BE REMOVED (TYP. 2 PER SECTOR)

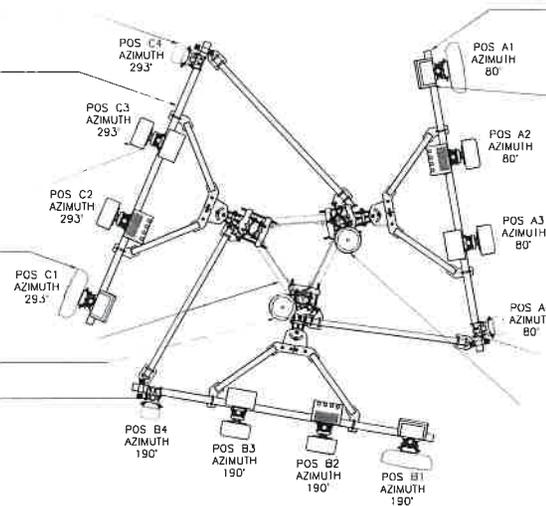
(9) EXISTING MOUNTING PIPES TO BE RELOCATED (TYP. 3 PER SECTOR)

(3) EXISTING EP90-654LBH8-L2 ANTENNAS TO BE REMOVED (TYP. 1 PER SECTOR)

EXISTING GUYED TOWER

(1) EXISTING DC6-48-60-18-8C RAYCAP UNIT TO BE REMOVED

(3) EXISTING MOUNTING PIPES IN POSITION 4 TO BE REMOVED (TYP. 1 PER SECTOR)



(2) EXISTING SECTOR FRAMES TO REMAIN (ALPHA & BETA SECTOR)

(3) EXISTING B25 RRHx30-4R RRH UNITS TO BE REMOVED (TYP. 1 PER SECTOR)

(3) EXISTING RRHx40-AWS-ROEM RRH UNITS TO BE REMOVED (TYP. 1 PER SECTOR)

(3) EXISTING RRHx25-WCS-4R RRH UNITS TO BE REMOVED (TYP. 1 PER SECTOR)

(3) EXISTING TMA1923888-31-43 TMA UNITS TO BE REMOVED (TYP. 1 PER SECTOR)

(1) EXISTING DC6-48-60-18-8C RAYCAP UNIT TO REMAIN



SCALE: 1/8" = 1'-0" (24x36)  
(OR) 1/4" = 1'-0" (11x17)

EXISTING ANTENNA PLAN

SEE AMERICAN TOWER CORPORATION MOUNT ANALYSIS REPORT DATED 01/02/26

ROTATED SECTOR FRAME AZIMUTH 285° (GAMMA SECTOR)

(3) PROPOSED CELLMAX 120716 (CMA-UBTLBLBHHHP/6517/17/21/21/21) ANTENNAS (TYP. 1 PER SECTOR)

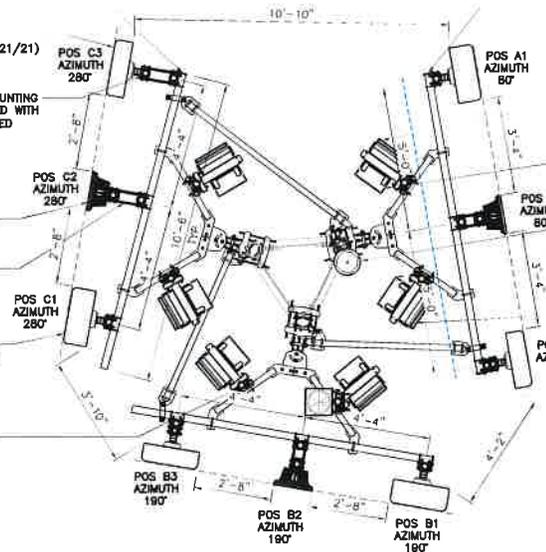
(6) PROPOSED P2 (2.375" X 120") MOUNTING PIPES IN POSITION 2 AND 3, CONNECTED WITH SITE PRO 1 SCX7-U (OR APPROVED EQUIVALENT) CROSSOVER PLATE KITS (TYP. 2 PER SECTOR)

(3) PROPOSED AIR6472 B776 B77M ANTENNAS (TYP. 1 PER SECTOR)

(6) PROPOSED SITE PRO 1 DCP12K PIPE-TO-PIPE CLAMP KITS IN POSITION 2 AND 3 (TYP. 2 PER SECTOR)

(3) PROPOSED ROSENBERG 120816 (CMA-UBTLBLBHHHP/6516/16/21/21) ANTENNAS (TYP. 1 PER SECTOR)

(6) PROPOSED P2 (2.375" X 120") MOUNTING PIPES ON V-ARMS W/ SITE PRO UB1400 U-BOLTS (TYP. 2 PER SECTOR)



(2) EXISTING SECTOR FRAMES (ALPHA & BETA SECTORS)

(3) PROPOSED ERICSSON 4472 B12A RRH UNITS ON PROPOSED COMMSCOPE RR-FA2 B2B BRACKET (OR APPROVED EQUIVALENT) (TYP. 1 PER SECTOR)

(3) PROPOSED ERICSSON 4471 B30 RRH UNITS ON PROPOSED COMMSCOPE RR-FA2 B2B BRACKET (OR APPROVED EQUIVALENT) (TYP. 1 PER SECTOR)

(1) EXISTING DC6-48-60-18-8C RAYCAP UNIT

(3) PROPOSED ERICSSON 4980 B25/B66 RRH UNITS ON PROPOSED COMMSCOPE RR-FA2 B2B BRACKET (OR APPROVED EQUIVALENT) (TYP. 1 PER SECTOR)

(3) PROPOSED ERICSSON 4484 B14/B29 RRH UNITS ON PROPOSED COMMSCOPE RR-FA2 B2B BRACKET (OR APPROVED EQUIVALENT) (TYP. 1 PER SECTOR)

(1) PROPOSED DC9-48-60-24-8C-EV (ENCLOSURE) RAYCAP UNIT



SCALE: 1/8" = 1'-0" (24x36)  
(OR) 1/4" = 1'-0" (11x17)

PROPOSED ANTENNA PLAN



**Fullerton**  
COMMUNICATIONS CONSULTANTS  
1100 E WOODFIELD ROAD, SUITE 500  
SCHAUMBURG, ILLINOIS 60173  
TEL: 617-908-8400  
COST: CA-0892  
www.fullertoncs.com

REV.	DATE	DESCRIPTION	INITIALS
A	12/15/25	ISSUED FOR REVIEW	RV
B	01/09/26	ISSUED FOR REVIEW	RV
C	01/12/26	ISSUED FOR REVIEW	RV
D	01/16/26	ISSUED FOR REVIEW	RV
E	01/20/26	ISSUED FOR CONSTRUCTION	CC

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E/// MODERNIZATION  
10147225  
MILFORD  
2015 O STREET RD  
PLEASANT DALE, NE  
68423-9036

SHEET TITLE  
**ANTENNA PLAN**

SHEET NUMBER  
**A4**

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REVISONS			
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E/// MODERNIZATION  
10147225  
MILFORD  
2015 O STREET RD  
PLEASANT DALE, NE  
68423-9036

SHEET TITLE  
**ANTENNA & CABLE CONFIGURATION**

SHEET NUMBER  
**A5**

PROPOSED ANTENNA CONFIGURATION AND CABLE SCHEDULE

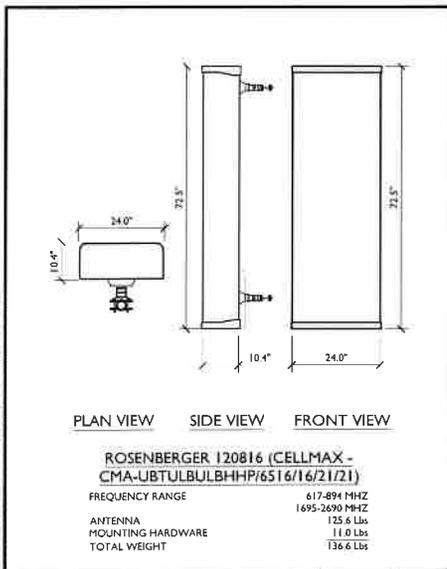
SECTOR	POS	TECH	ANTENNA	ANTENNA C HEIGHT	AZIMUTH	TMA/RRH MODEL #	DC SURGE AND DISTRIBUTION	CABLE TYPE	CABLE LENGTH (+20%)	DOWNTILTS
A	1	LTE/5G	ROSENBERGER (N) 120816 (CMA-UBTULBULBHHP/ 6516/16/21/21)	146' AGL	80°	(1) ERICSSON 4471 B30 (N) (1) ERICSSON 4472 B12A (N)	(1) RAYCAP (X) DC6-48-60-18-8C (ENCLOSURE) (RAD = 146')	(2) DC TRUNK LINES (X 8 GAUGE 0.78") (1) FIBER LINE (X 0.39")	190'	0
	2	5G CBAND	ERICSSON (N) AIR6472 B77G B77M	148' AGL	80°	-		DC TRUNK LINE SHARED W/B3 FIBER LINE SHARED W/B3	0	
	3	LTE/5G	CELLMAX (N) 120716 (CMA-UBTLBLBHHP/ 6517/17/21/21/21)	146' AGL	80°	(1) ERICSSON 4890 B25/B66 (N) (1) ERICSSON 4494 B14/B29 (N)		DC TRUNK LINE SHARED W/B3 FIBER LINE SHARED W/B3	0	
B	1	LTE/5G	ROSENBERGER (N) 120816 (CMA-UBTULBULBHHP/ 6516/16/21/21)	146' AGL	190°	(1) ERICSSON 4471 B30 (N) (1) ERICSSON 4472 B12A (N)	(1) RAYCAP (N) DC9-48-60-24-8C-EV (ENCLOSURE) (RAD = 146')	DC TRUNK LINE SHARED W/A1 FIBER LINE SHARED W/A1	190'	0
	2	5G CBAND	ERICSSON (N) AIR6472 B77G B77M	148' AGL	190°	-		DC TRUNK LINE SHARED W/B3 FIBER LINE SHARED W/B3	0	
	3	LTE/5G	CELLMAX (N) 120716 (CMA-UBTLBLBHHP/ 6517/17/21/21/21/21)	146' AGL	190°	(1) ERICSSON 4890 B25/B66 (N) (1) ERICSSON 4494 B14/B29 (N)		(2) DC TRUNK LINES (N 6 GAUGE 0.96") (1) DC TRUNK LINE (X 6 GAUGE 0.96") (1) FIBER LINE (N 0.40")	0	
C	1	LTE/5G	ROSENBERGER (N) 120816 (CMA-UBTULBULBHHP/ 6516/16/21/21)	146' AGL	280°	(1) ERICSSON 4471 B30 (N) (1) ERICSSON 4472 B12A (N)	(1) RAYCAP (N) DC9-48-60-24-8C-EV (ENCLOSURE) (RAD = 146')	DC TRUNK LINE SHARED W/A1 FIBER LINE SHARED W/A1	190'	0
	2	5G CBAND	ERICSSON (N) AIR6472 B77G B77M	148' AGL	280°	-		DC TRUNK LINE SHARED W/B3 FIBER LINE SHARED W/B3	0	
	3	LTE/5G	CELLMAX (N) 120716 (CMA-UBTLBLBHHP/ 6517/17/21/21/21/21)	146' AGL	280°	(1) ERICSSON 4890 B25/B66 (N) (1) ERICSSON 4494 B14/B29 (N)		DC TRUNK LINE SHARED W/B3 FIBER LINE SHARED W/B3	0	

\* INCLUDES SAFETY FACTOR OF 20' FT (10 FT AT BOTH ENDS OF CABLE RUN)  
CONTRACTOR TO VERIFY RF DATA WITH AT&T WIRELESS CONSTRUCTION MANAGER  
AND/OR RF ENGINEER PRIOR TO INSTALLATION

(N) = NEW  
(X) = EXISTING  
(XR) = EXISTING/RELOCATED  
(E) = ELECTRICAL  
(M) = MECHANICAL

NOT TO SCALE 1

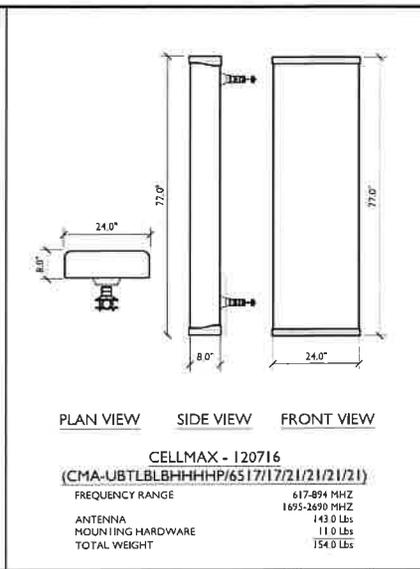
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PLAN VIEW SIDE VIEW FRONT VIEW

**ROSENBERGER 120816 (CELLMAX - CMA-UBTULBULBHHHP/6516/16/21/21)**

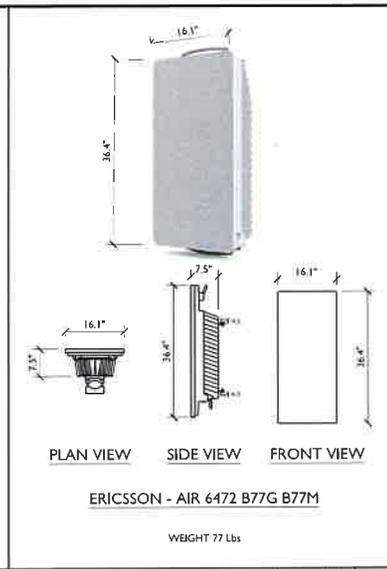
FREQUENCY RANGE 617-894 MHz  
1695-2690 MHz  
ANTENNA 125.6 Lbs  
MOUNTING HARDWARE 11.0 Lbs  
TOTAL WEIGHT 136.6 Lbs



PLAN VIEW SIDE VIEW FRONT VIEW

**CELLMAX - 120716 (CMA-UBTBLBHHHHHP/6517/17/21/21/21/21)**

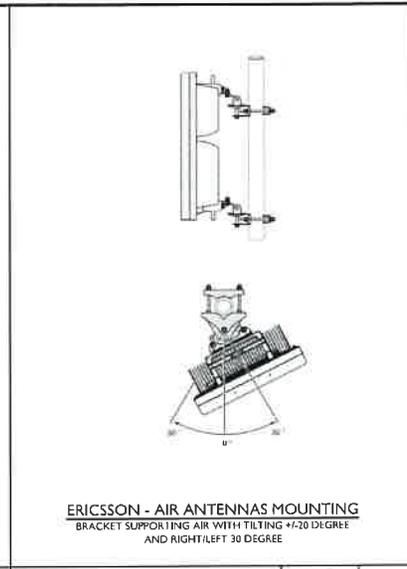
FREQUENCY RANGE 617-894 MHz  
1695-2690 MHz  
ANTENNA 143.0 Lbs  
MOUNTING HARDWARE 11.0 Lbs  
TOTAL WEIGHT 154.0 Lbs



PLAN VIEW SIDE VIEW FRONT VIEW

**ERICSSON - AIR 6472 B77G B77M**

WEIGHT 77 Lbs



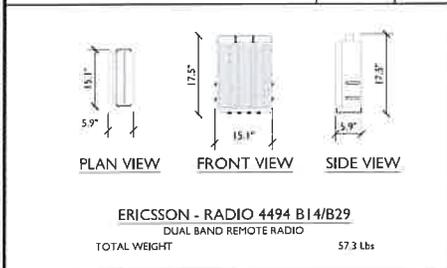
**ERICSSON - AIR ANTENNAS MOUNTING BRACKET SUPPORTING AIR WITH TILTING 30 DEGREE AND RIGHT/LEFT 30 DEGREE**

ANTENNA SPECIFICATION	NOT TO SCALE	1
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ANTENNA SPECIFICATION	NOT TO SCALE	2
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ANTENNA SPECIFICATION	NOT TO SCALE	3
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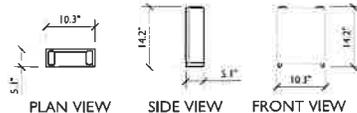
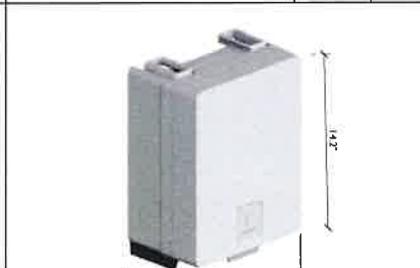
ANTENNA MOUNTING DETAIL	NOT TO SCALE	4
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PLAN VIEW FRONT VIEW SIDE VIEW

**ERICSSON - RADIO 4494 B14/B29**

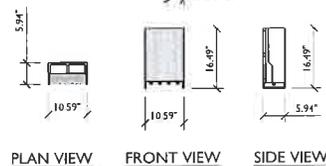
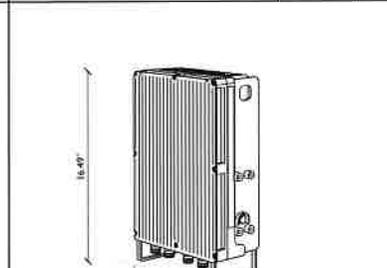
DUAL BAND REMOTE RADIO  
TOTAL WEIGHT 57.3 Lbs



PLAN VIEW SIDE VIEW FRONT VIEW

**ERICSSON - RRUS 4471 B30**

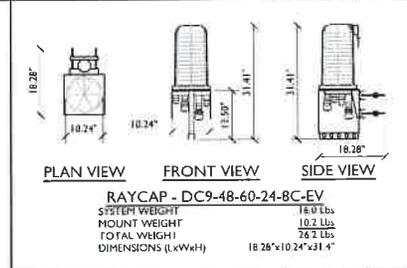
FREQUENCY RANGE TX 2350-2360 MHz  
RX 2305-2315 MHz  
TOTAL WEIGHT 47.4 Lbs



PLAN VIEW FRONT VIEW SIDE VIEW

**ERICSSON - RADIO 4472 B12A**

REMOTE RADIO  
WEIGHT 30.64 Lbs



PLAN VIEW FRONT VIEW SIDE VIEW

**RAYCAP - DC9-48-60-24-8C-EV**

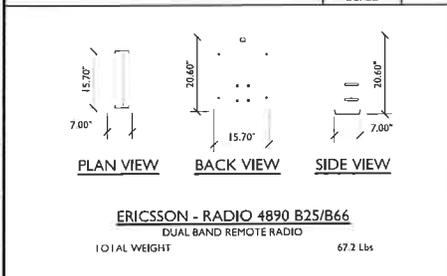
SYSTEM WEIGHT 18.0 Lbs  
MOUNT WEIGHT 10.2 Lbs  
TOTAL WEIGHT 28.2 Lbs  
DIMENSIONS (LxWxH) 18.28x10.24x31.41

RRH SPECIFICATION	NOT TO SCALE	5
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RRH SPECIFICATION	NOT TO SCALE	6
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RRH SPECIFICATION	NOT TO SCALE	7
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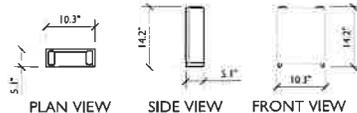
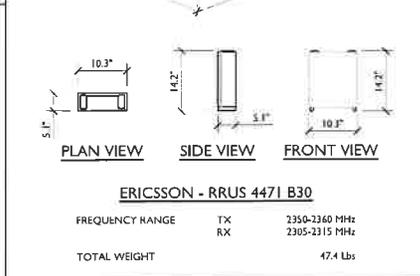
DC9 RAYCAP SPECIFICATION	NOT TO SCALE	9
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PLAN VIEW BACK VIEW SIDE VIEW

**ERICSSON - RADIO 4890 B25/B66**

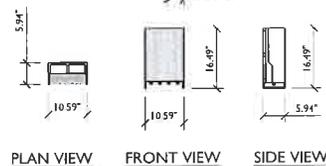
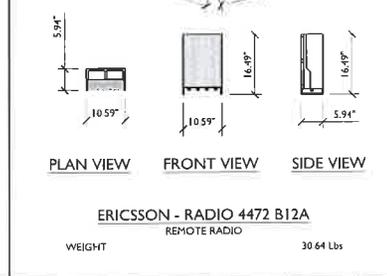
DUAL BAND REMOTE RADIO  
TOTAL WEIGHT 67.2 Lbs



PLAN VIEW FRONT VIEW SIDE VIEW

**ERICSSON - RADIO 4472 B12A**

REMOTE RADIO  
WEIGHT 30.64 Lbs



PLAN VIEW FRONT VIEW SIDE VIEW

**ERICSSON - RADIO 4472 B12A**

REMOTE RADIO  
WEIGHT 30.64 Lbs

**COMMSCOPE - B2B RR-FA2**

UNIVERSAL B2B BRACKET  
HEIGHT 2.40"  
WIDTH 16.40"  
DEPTH 18.00"  
WEIGHT 36 Lbs

RRH SPECIFICATION	NOT TO SCALE	6
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RRH SPECIFICATION	NOT TO SCALE	7
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RRH SPECIFICATION	NOT TO SCALE	8
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BRACKET SPECIFICATION	NOT TO SCALE	10
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REV	DATE	DESCRIPTION	INITIALS
A	12/15/23	ISSUED FOR REVIEW	RV
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E/// MODERNIZATION 10147225 MILFORD 2015 O STREET RD PLEASANT DALE, NE 68425-9036
--------------------------------------------------------------------------------------------------

SHEET TITLE  
**EQUIPMENT  
DETAILS**

SHEET NUMBER  
**A6**

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## 860674607-036 | HG ANCHOR, GUYED-TOWER, 36" FACE



Cable Support Mount for Guyed Towers to Support Cable, 36" Face

- The 860674607-036 is a purpose built tower face bracket that is designed to support 1000 pounds of cable per eye up to 2000 pounds in combination. Ideal for Hybrid cable. Includes mounting eye bolt for attachment.
- Product is designed to be field installed as needed on tower legs and across the tower face to provide an engineered attachment point for the support of cables.
- Can be installed inside or outside of tower face
- Stands off tower to allow other cables to pass
- Supports towers with a 36" face width (center to center of leg) and 1.5-3" Diameter Legs
- Additional units can be installed along the tower face as needed to support additional cables.
- Not to be used for hoisting
- Competent person to make determination of usage on the structure

### Product Classification

Portfolio	CommScope®
Product Type	Hoisting Grip Anchor
Ordering Note	CommScope® standard product with terms
Warranty	One year

### General Specifications

Cable Runs, quantity	3
Mounting	Round member

### Material Specifications

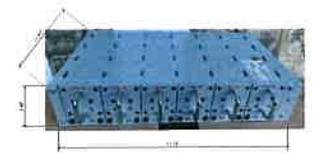
Material Type	Hot dip galvanized steel
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### Packaging and Weights

Included	Attachment nuts
Packaging quantity	1

Page 1 of 2

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**RAYCAP - DC12-48-60-RM**  
RACK MOUNT RM SERIES, DC SURGE PROTECTION FOR RRH  
DC12-45-60-RM 27 Lbs

### DC12 INDOOR RAYCAP SPECIFICATION

NOT TO SCALE 2

**Features:**

- All standards to meet or exceed two hot dip galvanized and two zinc coatings
- Long thread lengths

**Design Criteria:**

- SAE J429 Grade 5 for 5/8" diameter and others
- SAE J429 Grade 2
- Finished to cut D/C threads
- Not to be galvanized per ASTM A193

Part #	Diameter (D)	Width (W)	Length (L)	Thread (T)
UB2000	3/8"	2"	2"	1-1/2"
UB2012	3/8"	2 1/2"	3 3/4"	1-3/4"
UB2030	3/8"	3"	4 1/4"	2"
UB2013	3/8"	3 1/2"	4 3/4"	2"
UB2418	3/8"	4"	5 3/4"	2 1/2"
UB1400	1/2"	3"	4"	2"
UB1213	1/2"	2 1/2"	4 1/2"	2"
UB1300	1/2"	3"	5"	2"
UB1304	1/2"	3 5/8"	6 1/2"	3"
UB1304	1/2"	3 5/8"	6"	3"
UB1418	1/2"	4 1/8"	6"	3"
UB1404	1/2"	4 5/8"	7"	3"
UB2014	5/8"	3 5/8"	4 1/2"	2"
UB2030	5/8"	3"	6 1/4"	2 1/2"
UB2034	5/8"	3 5/8"	6"	3"
UB2418	5/8"	4 1/8"	7"	3"
UB2434	5/8"	4 5/8"	7"	3"



**Fullerton**  
CUSTOM DESIGN CONSULTING  
1100 E. WOODFIELD ROAD, SUITE 500  
SCHAUMBURG, ILLINOIS 60173  
TEL: 847-908-8400  
COMM-CA0002  
[www.fullertonill.com](http://www.fullertonill.com)

REVISIONS			
REV	DATE	DESCRIPTION	AUTHOR
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10147225  
MILFORD  
2015 O STREET RD  
PILLASANI DALE, NE  
68423-9036

SHEET TITLE  
**EQUIPMENT  
DETAILS**

SHEET NUMBER  
**A7**

### GRIP ANCHOR SPECIFICATION

NOT TO SCALE 1

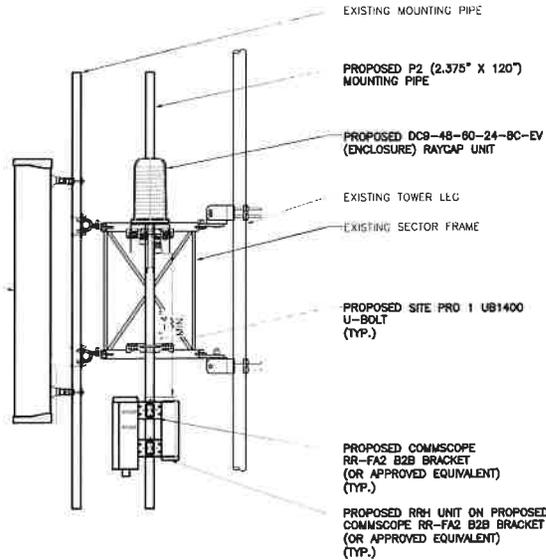
### UB1400 U-BOLT SPECIFICATION

NOT TO SCALE 3



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PROPOSED ROSENBERG 120816  
(CMA-U8TULBULBHHF/8516  
/18/21/21) ANTENNA



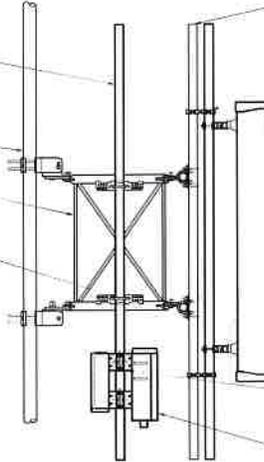
PROPOSED P2 (2.375\"/>

EXISTING TOWER LEG  
EXISTING SECTOR FRAME

PROPOSED SITE PRO 1 UB1400  
U-BOLT  
(TYP.)

PROPOSED COMMSCOPE  
RR-FA2 B2B BRACKET  
(OR APPROVED EQUIVALENT)  
(TYP.)  
PROPOSED RRH UNIT ON PROPOSED  
COMMSCOPE RR-FA2 B2B BRACKET  
(OR APPROVED EQUIVALENT)  
(TYP.)

EXISTING MOUNTING PIPE



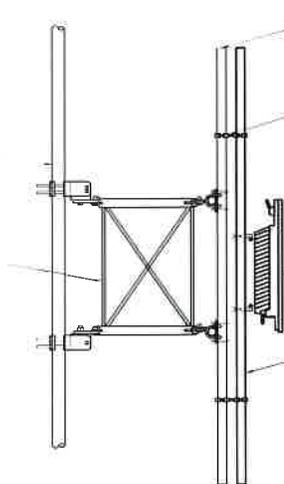
PROPOSED SITE PRO 1 DCP12K  
PIPE-TO-PIPE CLAMP KIT  
(TYP.)

PROPOSED CELLMAX 120718  
(CMA-U8TULBULBHHF/8517  
/17/21/21/21) ANTENNA

PROPOSED COMMSCOPE  
RR-FA2 B2B BRACKET  
(OR APPROVED EQUIVALENT)  
(TYP.)

PROPOSED RRH UNIT ON PROPOSED  
COMMSCOPE RR-FA2 B2B BRACKET  
(OR APPROVED EQUIVALENT)  
(TYP.)

EXISTING TOWER LEG  
EXISTING SECTOR FRAME



EXISTING MOUNTING PIPE

PROPOSED SITE PRO 1 DCP12K  
PIPE-TO-PIPE CLAMP KIT  
(TYP.)

PROPOSED AIR6472 B77G B77M  
ANTENNA

PROPOSED P2.5 (2.375\"/>



REVISIONS				
REV	DATE	DESCRIPTION	ISSUED BY	APPROVED BY
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C	01/12/26	ISSUED FOR REVIEW	RV	
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E/// MODERNIZATION  
10147225  
MILF ORD  
2015 O STREET RD  
PLEASANT DALE, NE  
68423-9036

SHEET TITLE  
**MOUNTING  
DETAILS**

SHEET NUMBER  
**A9**

MOUNTING DETAILS

NOT TO SCALE

1

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1. CONTRACTOR IS TO REFER TO AT&T'S MOST CURRENT RADIO FREQUENCY DATA SHEET (RFDS) PRIOR TO CONSTRUCTION
2. THE SIZE, HEIGHT, AND DIRECTION OF THE ANTENNAS SHALL BE ADJUSTED TO ACHIEVE THE AZIMUTHS SPECIFIED AND LIMIT SHADOWING AND TO MEET THE SYSTEM REQUIREMENTS
3. CONTRACTOR SHALL VERIFY THE HEIGHT OF THE ANTENNA WITH THE AT&T WIRELESS PROJECT MANAGER
4. VERIFY TYPE AND SIZE OF TOWER LEG PRIOR TO ORDERING ANY ANTENNA MOUNT
5. UNLESS NOTED OTHERWISE THE CONTRACTOR MUST PROVIDE ALL MATERIAL NECESSARY
6. ANTENNA AZIMUTHS ARE DEGREES OFF OF TRUE NORTH, BEARING CLOCKWISE, IN WHICH ANTENNA FACE IS DIRECTED. ALL ANTENNAS (AND SUPPORTING STRUCTURES AS PRACTICAL) SHALL BE ACCURATELY ORIENTED IN THE SPECIFIED DIRECTION
7. CONTRACTOR SHALL VERIFY ALL RF INFORMATION PRIOR TO CONSTRUCTION
8. SWEEP TEST SHALL BE PERFORMED BY GENERAL CONTRACTOR AND SUBMITTED TO AT&T WIRELESS CONSTRUCTION SPECIALIST. TEST SHALL BE PERFORMED PER AT&T WIRELESS STANDARDS
9. CABLE LENGTHS WERE DETERMINED BASED ON THE DESIGN DRAWING. CONTRACTOR TO VERIFY ACTUAL LENGTH DURING PRE-CONSTRUCTION WALK
10. CONTRACTOR TO USE ROSENBERGER FIBER LINE HANGER COMPONENTS (OR ENGINEER APPROVED EQUAL)

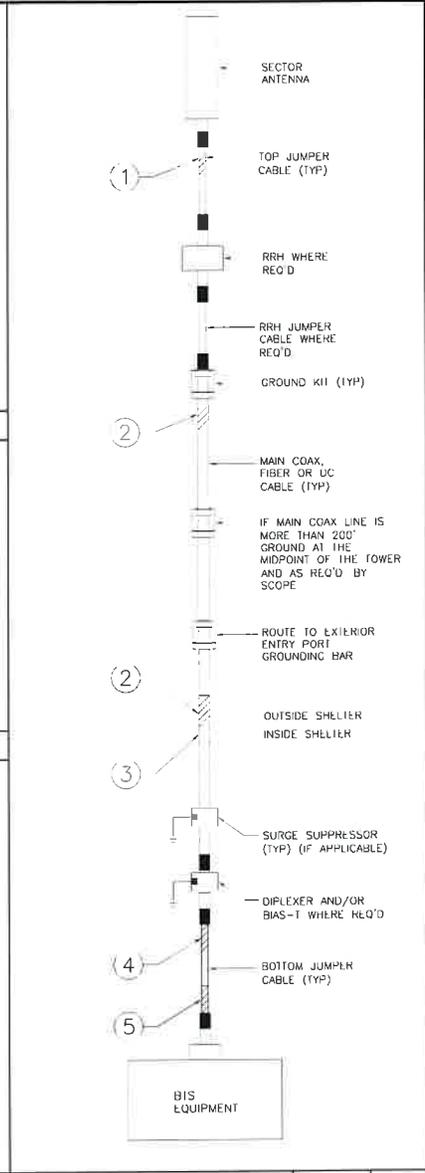
ANTENNA & CABLING NOTES		
NO SCALE		3

RF, DC, & COAX CABLE MARKING LOCATIONS TABLE	
NO	LOCATIONS
1	EACH TOP-JUMPER SHALL BE COLOR CODED WITH (1) SET OF 3" WIDE BANDS
2	EACH MAIN COAX SHALL BE COLOR CODED WITH (1) SET OF 3" WIDE BANDS NEAR THE TOP-JUMPLER CONNECTION AND WITH (1) SET OF 3/4" WIDE COLOR BANDS JUST PRIOR TO ENTERING THE BTS OR TRANSMITTER BUILDING
3	CABLE ENTRY POINT ON THE INTERIOR OF THE SHELTER
4	ALL BOTTOM JUMPLERS SHALL BE COLOR CODED WITH (1) SET OF 3/4" WIDE BANDS ON EACH END OF THE BOTTOM JUMPLER
5	ALL BOTTOM JUMPLERS SHALL BE COLOR CODED WITH (1) SET OF 3/4" WIDE BANDS ON EACH END OF THE BOTTOM JUMPLER

CABLE MARKING DIAGRAM		
NO SCALE		4

1. THE ANTENNA SYSTEM COAX SHALL BE LABELED WITH VINYL TAPE
2. THE STANDARD IS BASED ON EIGHT COLORED TAPES- RED, BLUE, GREEN, YELLOW, ORANGE, BROWN, WHITE, AND VIOLET. THESE TAPES MUST BE 3/4" WIDE & UV RESISTANT SUCH AS SCOTCH 35 VINYL ELECTRICAL COLOR CODING TAPE AND SHOULD BE READILY AVAILABLE TO THE ELECTRICIAN OR CONTRACTOR ON SITE
3. USING COLOR BANDS ON THE CABLES, MARK ALL RF CABLE BY SECTOR AND CABLE NUMBER AS SHOWN ON "CABLE COLOR CHART"
4. WHEN AN EXISTING COAXIAL LINE THAT IS INTENDED TO BE A SHARED LINE BETWEEN TECHNOLOGIES IS ENCOUNTERED, THE CONTRACTOR SHALL REMOVE THE EXISTING COLOR CODING SCHEME AND REPLACE IT WITH THE COLOR CODING STANDARD. IN THE ABSENCE OF AN EXISTING COLOR CODING AND TAGGING SCHEME, OR WHEN INSTALLING PROPOSED COAXIAL CABLES, THIS GUIDELINE SHALL BE IMPLEMENTED AT THAT SITE REGARDLESS OF TECHNOLOGY
5. ALL COLOR CODE TAPE SHALL BE 3M-35 AND SHALL BE INSTALLED USING A MINIMUM OF (3) THREE WRAPS OF TAPE AND SHALL BE NEATLY TRIMMED AND SMOOTHED OUT SO AS TO AVOID UNRAVELING
6. ALL COLOR BANDS INSTALLED AT THE TOP OF THE TOWER SHALL BE A MINIMUM OF 3" WIDE, AND SHALL HAVE A MINIMUM OF 3/4" OF SPACE BETWEEN EACH COLOR
7. ALL COLOR CODES SHALL BE INSTALLED SO AS TO ALIGN NEATLY WITH ONE ANOTHER FROM SIDE-TO-SIDE
8. IF EXISTING CABLES AT THE SITE ALREADY HAVE A COLOR CODING SCHEME AND THEY ARE NOT INTENDED TO BE REUSED OR SHARED WITH THE NEW TECHNOLOGY, THE EXISTING COLOR CODING SCHEME SHALL REMAIN UNTOUCHED

CABLE MARKING NOTES		
NO SCALE		5



CABLE COLOR CODING DIAGRAM		
NO SCALE		6

NO DETAIL		
NO SCALE		1

NO DETAIL		
NO SCALE		2



**Fullerton**  
 1100 E. WOODFIELD ROAD, SUITE 500  
 SCHAUMBURG, ILLINOIS 60173  
 TEL: 847-208-8400  
 COAX CABLES?  
 www.Fullertonus.com

REV	DATE	DESCRIPTION	ISSUED BY
A	12/15/23	ISSUED FOR REVIEW	RV
B	01/09/26	ISSUED FOR REVIEW	RV
C	01/12/26	ISSUED FOR REVIEW	RV
D	01/16/26	ISSUED FOR REVIEW	RV
D	01/26/26	ISSUED FOR CONSTRUCTION	TC

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I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME, OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF NEBRASKA

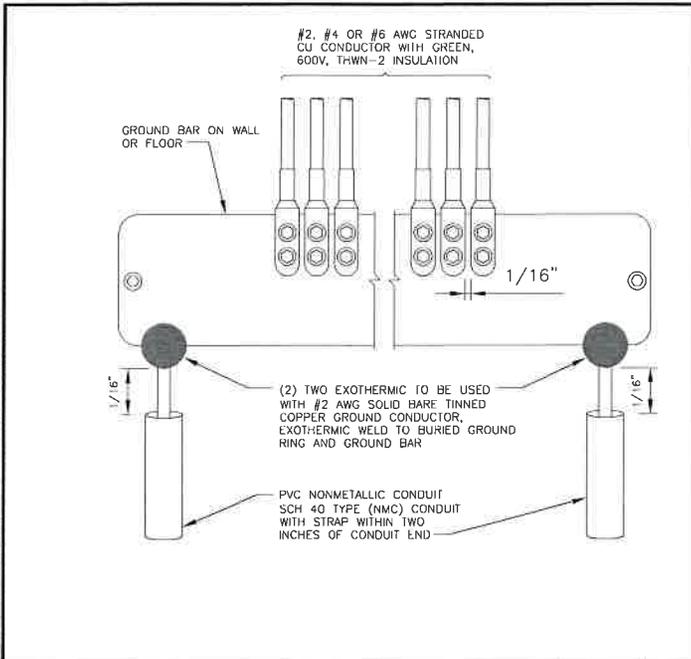


/// MODERNIZATION  
 10147225  
 MILFORD  
 2015 O STREET RD  
 PLEASANT DALE, NE  
 68423-9036

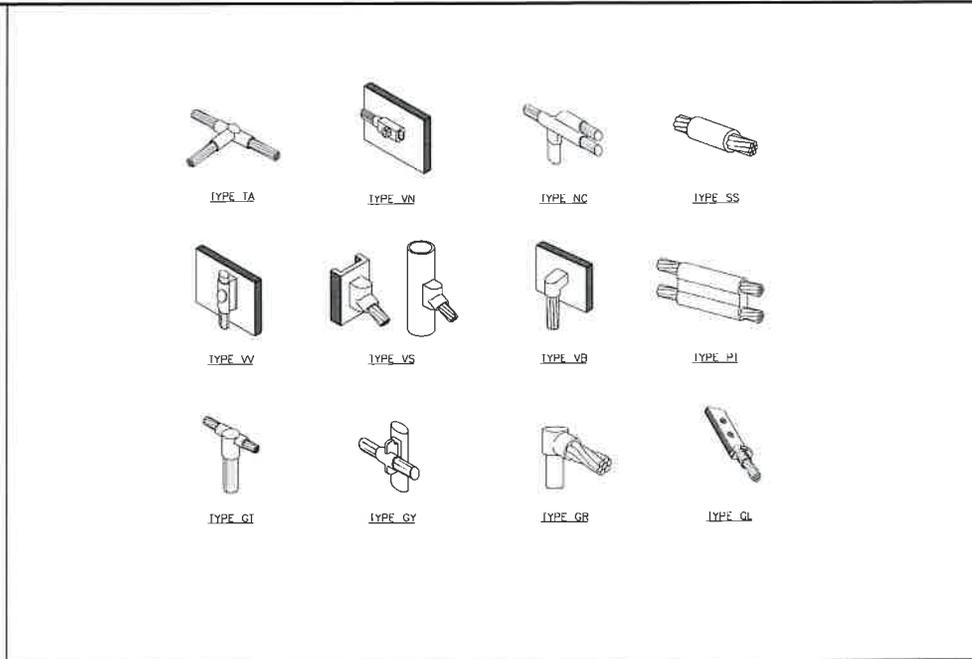
SHEET TITLE  
**CABLE NOTES  
 & COLOR  
 CODING**

SHEET NUMBER  
**A10**

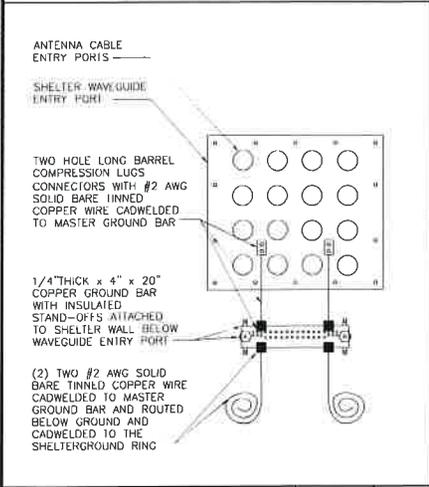
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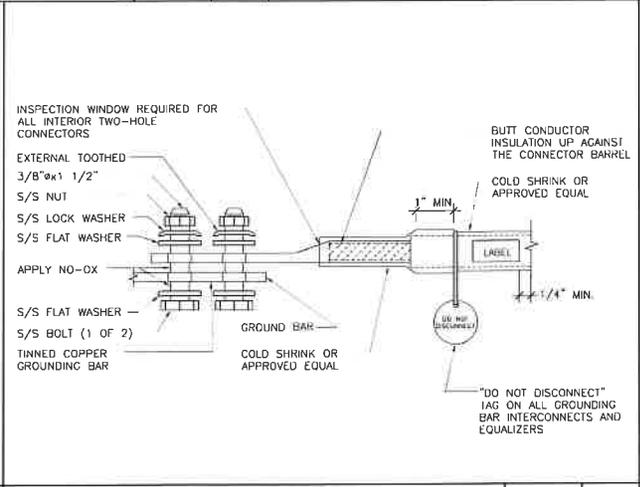
GROUND BAR DETAILS NO SCALE 1



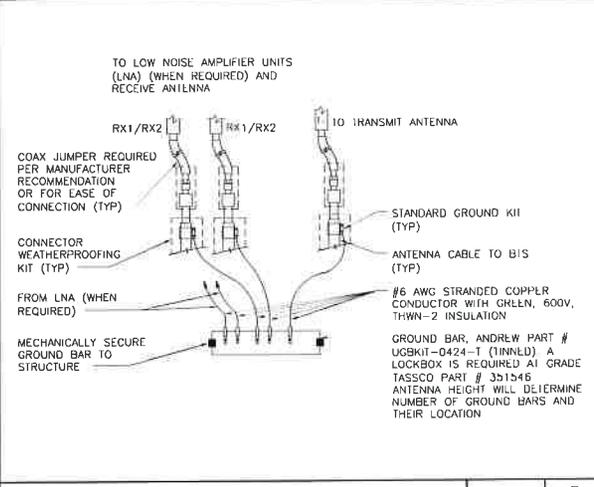
CALDWELD DETAILS NO SCALE 2



SHELTER GROUND BAR DETAIL NO SCALE 3



EXTERIOR TWO HOLE LUG DETAIL NO SCALE 4



ANTENNA GROUND BAR DETAIL NO SCALE 5



**Fullerton**  
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 TEL: 847-908-8400  
 CO#AF CA0892  
 www.fullerton.com

REVISIONS				
REV	DATE	DESCRIPTION	INITIALS	
A	12/15/23	ISSUED FOR REVIEW	RV	
B	01/09/26	ISSUED FOR REVIEW	RV	
C	01/12/26	ISSUED FOR REVIEW	RV	
D	01/16/26	ISSUED FOR REVIEW	RV	
D	01/20/26	ISSUED FOR CONSTRUCTION	EC	

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E/// MODERNIZATION  
 10147225  
 MILFORD  
 2015 O STREET RD  
 PLEASANT DALE, NE  
 68423-9036

SHEET TITLE  
**GROUNDING DETAILS**

SHEET NUMBER  
**E1**

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## Mount Analysis Report

**Mount Type** : 10.5 ft Sector Frame  
**ATC Asset Name** : PLEASANT DALE  
**ATC Asset Number** : 98575  
**Engineering Number** : 15440745\_C8\_04  
**Mount Elevation** : 144.5 ft  
**Proposed Carrier** : AT&T Mobility  
**Carrier Site Name** : Milford  
**Carrier Site Number** : WSUMW0033307  
**Site Location** : 1965 O Street Rd  
 Pleasant Dale, NE 68423-9036  
 40.8138, -96.9936  
**County** : Seward  
**Date** : January 2, 2026  
**Max Usage** : 81%  
**Analysis Result** : Contingent Pass

Prepared By:  
 Wyatt Jones  
 Structural Engineer



COA: CA1343

ATC Tower Services, LLC - 1 Fernon Man, Suite 300 - Qiry, NC 27311 - 819.448.2112 Office - 819.446.3414 Fax - www.americantower.com



Eng. Number 15440745\_C8\_04  
 January 2, 2026  
 Page 3

### Introduction

The purpose of this report is to summarize results of the mount analysis performed for AT&T Mobility at 144.5 ft.

### Supporting Documents

Specifications Sheet:	Site Pro 1 VFA12-HD-S, dated June 29, 2018
Previous Analysis:	ATC Project #15440745_C8_04, dated December 12, 2025
Radio Frequency Data Sheet:	RFDS ID #10147225, dated November 13, 2025
Reference Photos:	Site photos from 2025

### Analysis

This mount was analyzed using American Tower Corporation's Mount Analysis Program and RISA-3D

Basic Wind Speed:	111 mph (3-Second Gust)
Basic Wind Speed w/ Ice:	51 mph (3-Second Gust) w/ 1.14" radial ice concurrent
Codes:	ANSI/TIA-222-1 / 2018 IBC
Exposure Category:	C
Risk Category:	II
Topographic Factor Procedure:	Method 1
Feature:	Flat
Crest Height (H):	0 ft
Crest Length (L):	0 ft
Spectral Response:	Sds = 0.081, Sd1 = 0.071
Site Class:	Default
Live Loads:	Lm = 500 lbs, Lv = 250 lbs

\*Live Load(s) reduction is confirmed to either not govern or not be applicable

### Conclusion

Based on the analysis results, the antenna mount meets the requirements per the applicable codes listed above provided the modifications listed below are completed:

- Install P2 (2.375" x 120") in mount pipe position 2F and 3F, as well as in positions MA1 and MA2. Connect 2F and 3F pipe with Site Pro 1 SCX7-U (or approved equivalent) crossover plate kit. Connect MA1 and MA2 pipe with Site Pro 1 UB1400 U-Bolts.
- For gamma sector, rotate existing mount(s) to 280 deg to align with antenna azimuths.
- Install Site Pro 1 DCP12K kits in mount pipe position 2 and 3. Install the top clamp kit 6" above the (upper) mount face horizontal and install the bottom clamp kit 6" below the (lower) mount face horizontal.
- Remove mount pipe in position 4 and evenly space remaining mount pipes. For beta sector, reposition pipes in positions 2 and 3 as shown in 3D view below (4ft apart while retaining B1 position). For gamma sector, reposition pipes in positions 1 and 2 with equal spacing as beta sector.
- No structural failures were addressed with the noted contingencies. Contingencies address Carrier's antenna spacing requirements.
- The rough cost estimate, pre-MOD design, is estimated to be ≤\$10k.

ATC Tower Services, LLC - 1 Fernon Man, Suite 300 - Qiry, NC 27311 - 819.448.2112 Office - 819.446.3414 Fax - www.americantower.com



REV	DATE	DESCRIPTION	INITIALS
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D	01/16/26	ISSUED FOR REVIEW	RV
D	01/20/26	ISSUED FOR CONSTRUCTION	EC

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FOR  
REFERENCE  
ONLY

E/// MODERNIZATION  
 10147225  
 MILFORD  
 2015 O STREET RD  
 PLEASANT DALE, NE  
 68423-9036

SHEET TITLE

SUPPLEMENTAL

SHEET NUMBER

R1

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Eng. Number 15440745\_CB\_04  
January 2, 2026  
Page 4

If you have any questions or require additional information, please reach out to your American Tower contact. If you do not have an American Tower contact and have an Engineering question, please contact [MountAnalysis@americantower.com](mailto:MountAnalysis@americantower.com). Please include the American Tower site name, site number, and engineering number in the subject line for any questions.

**Application Loading**

Mount Centerline (ft)	Equipment Centerline (ft)	Qty	Equipment Manufacturer & Model
144.5	148.0	3	Ericsson AIR 6472 B77G B77M (67.2LBS)
		3	CellMax CMA-UBTLBLBHHP/6517/17/21/21/21/21
	146.0	3	CellMax CMA-UBTULBLBHHP/6516/16/21/21
		3	Ericsson RADIO 4471 B30 (28.4LBS)
		3	Ericsson RADIO 4472HP B12A (30.6 LBS)
		3	Ericsson RADIO 4494 44B14 20B29 M01
		3	Ericsson RADIO 4890HP 48B7/B75 48B66 M01 (68.3LBS)
		1	Raycap DC6-48-60-18-8C-EV (ENCLOSURE)
		1	Raycap DC9-48-60-24-8C-EV (ENCLOSURE)

**Structure Usages**

Structural Component	Controlling Usage	Pass/Fail
Horizontals	81%	Pass
Verticals	42%	Pass
Diagonals	18%	Pass
Tie-Backs	7%	Pass
Mount Pipes	29%	Pass
Tower Leg Check	77%	Pass
Clamp Connection Check	18%	Pass

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**Fullerton**  
LLEWELLYN DEVELOPMENT CORPORATION  
1100 E WOODFIELD ROAD, SUITE 500  
SCHAMBURG, ILLINOIS 60173  
TEL: 947-908-8400  
COA# CA0892  
[www.fullerton.com](http://www.fullerton.com)

REV	DATE	REVISIONS DESCRIPTION	INITIALS
A	12/15/25	ISSUED FOR REVIEW	RV
B	01/09/26	ISSUED FOR REVIEW	RV
C	01/12/26	ISSUED FOR REVIEW	RV
D	01/16/26	ISSUED FOR REVIEW	RV
D	01/20/26	ISSUED FOR CONSTRUCTION	LC

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FOR REFERENCE ONLY

E/// MODERNIZATION  
10147225  
MILFORD  
2015 O STREET RD  
PLEASANT DALE, NE  
68423-9036

SHEET TITLE  
SUPPLEMENTAL

SHEET NUMBER  
**R2**





**LETTER OF AUTHORIZATION FOR PERMITTING**

**Licensee Name:** New Cingular Wireless PCS, LLC d/b/a AT&T Mobility  
**ATC Site Name:** PLEASANT DALE / **ATC Site #:** 98575 / **Project #:** 15440745  
**Site Address:** 2015 O Street Rd, Pleasant Dale, NE 68423-9036  
**Site Coordinates:** 40.813751, -96.99362  
**Site Acquisition Vendor (applicant representative):** Fullerton Engineering Consultants

I, Regan Buckley, Senior Vice President, Global Property Management, American Tower\*, owner/operator of the tower facility located at the address identified above (the "Tower Facility"), do hereby authorize New Cingular Wireless PCS, LLC d/b/a AT&T Mobility, Fullerton Engineering Consultants, their successor(s), assign(s), and/or agent(s), (collectively, the "Licensee") to act as American Tower's non-exclusive agent for the sole purpose of filing and consummating any land-use, building, or electrical permit application(s) as may be required by the applicable permitting authorities for Licensee's telecommunications' installation/modification on the Tower Facility.

I understand that these applications may be approved with conditions. The above authorization is limited to the acceptance by Licensee only of conditions related to Licensee's installation and any such conditions of approval or modifications will be Licensee's sole responsibility.

Signature:   
Print Name: Regan Buckley  
SVP, Global Property Management  
American Tower\*

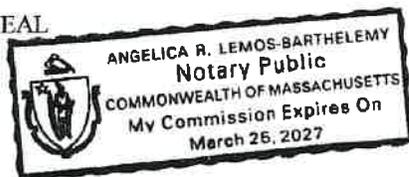
**NOTARY BLOCK**

Commonwealth of MASSACHUSETTS  
County of Middlesex

This instrument was acknowledged before me by Regan Buckley, Senior Vice President, Global Property Management for American Tower\*, personally known to me (or proved to me based on satisfactory evidence of identification) to be the person whose name is signed on the preceding or attached document and acknowledged to me that they signed it voluntarily for its stated purpose.

WITNESS my hand and official seal, this 26<sup>th</sup> day of January 2026

NOTARY SEAL



  
Notary Public  
My Commission Expires: March 25, 2027

\* American Tower is defined as American Tower Corporation and any of its affiliates or subsidiaries.



**AMERICAN TOWER®**  
CORPORATION

## Structural Analysis Report

**Structure** : 180 ft Guyed Tower  
**ATC Asset Name** : PLEASANT DALE  
**ATC Asset Number** : 98575  
**Engineering Number** : 15440745\_C3\_03  
**Proposed Carrier** : AT&T MOBILITY  
**Carrier Site Name** : Milford  
**Carrier Site Number** : WSUMW0033307  
**Site Location** : 2015 O Street Rd  
Pleasant Dale, NE 68423-9036  
40.8138° N, 96.9936° W  
**County** : Seward  
**Date** : November 24, 2025  
**Max Usage** : 75%  
**Analysis Result** : Pass



COA: CA1343



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Introduction .....3

Supporting Documents .....3

Analysis .....3

Conclusion .....3

Structure Usages .....4

Maximum Reactions .....4

Tower Loading .....5

Standard Conditions ..... Attached

Calculations ..... Attached

## Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 180 ft Guyed tower to reflect the change in loading by AT&T MOBILITY.

## Supporting Documents

<b>Tower:</b>	Sabre Project #SA0696-G, dated July 24, 1996
<b>Foundation:</b>	Sabre Project #SA0696-G, dated July 24, 1996
<b>Geotechnical:</b>	Geotechnical Services Job #2405225, dated July 16, 1996

## Analysis

The tower was analyzed using American Tower Corporation's tower analysis software. This program considers an elastic three-dimensional model and second-order effects per ANSI/TIA-222.

<b>Basic Wind Speed:</b>	111 mph (3-second gust)
<b>Basic Wind Speed w/ Ice:</b>	51 mph (3-second gust) w/ 1.14" radial ice concurrent
<b>Code(s):</b>	ANSI/TIA-222-I / 2018 IBC
<b>Exposure Category:</b>	C
<b>Risk Category:</b>	II
<b>Topographic Factor Procedure:</b>	Method 1
<b>Feature:</b>	Flat
<b>Crest Height (H):</b>	0 ft
<b>Crest Length (L):</b>	0 ft
<b>Spectral Response:</b>	$S_{ps} = 0.08, S_{bt} = 0.07$
<b>Site Class:</b>	Default

## Conclusion

Based on the analysis results, the structure meets the requirements per the applicable codes listed above. The tower and foundation can support the equipment as described in this report.

If you have any questions or require additional information, please reach out to your American Tower contact. If you do not have an American Tower contact and have an Engineering question, please contact [Engineering@americantower.com](mailto:Engineering@americantower.com). Please include the American Tower asset name, asset number, and engineering number in the subject line for any questions.

**Structure Usages**

Structural Component	Usage	Control	Location	Result
Leg	51.3%	Member X	Section 3	Pass
Diagonal	32.0%	Member X	Section 11	Pass
Horizontal	14.1%	Member X	Section 11	Pass
Bolt	4.5%	-	Section 11	Pass
Torque Arm	7.1%	Tension	Elevation 57 ft	Pass
Cable	60.0%	Tension	Elevation 117 ft	Pass
Serviceability Usage	6.2%	Rotation	Elevation 180 ft	Pass
Mat & Pier	74.9%	Bearing [Soil]	Node 1	Pass
Guy Anchor	48.1%	Shear [Soil]	Node A1	Pass
Guy Anchor	48.1%	Shear [Soil]	Node A1a	Pass
Guy Anchor	48.1%	Shear [Soil]	Node A1b	Pass

**Maximum Reactions**

Foundation	Moment (k-ft)	Axial (k)	Uplift (k)	Shear (k)
Guyed – Pivot Base	-	81.0	-	0.7
Guyed Anchor - A1	-	-	18.5	20.9

*\*Reactions shown are maximum overall and not limited by Load Case excluding Overstrength Load Cases*

Structure base reactions were analyzed using available geotechnical and foundation information.



**AT&T MOBILITY Final Loading**

Elev (ft)	Qty	Equipment	Lines
148.0	3	Ericsson AIR 6472 B77G B77M (67.2lbs)	-
146.0	1	Raycap DC6-48-60-18-8C-EV (Enclosure)	(1) 0.39" (10mm) Fiber Trunk (1) 0.40" (10.3mm) Fiber (2) 0.78" (19.7mm) 8 AWG 6 (3) 0.96" (24.3mm) Cable
	1	Raycap DC9-48-60-24-8C-EV (Enclosure)	
	3	CellMax CMA-UBTLBLBHHHP/6517/17/21/21/21/21	
	3	CellMax CMA-UBTULBULBHHP/6516/16/21/21	
	3	Ericsson Radio 4471 B30 (28.4lbs)	
	3	Ericsson Radio 4472HP B12A (30.6 lbs)	
	3	Ericsson Radio 4494 44B14 20B29 M01	
	3	Ericsson Radio 4890HP 48B2/B25 48B66 M01 (68.3lbs)	
	3	Light Sector Frame	

Install proposed lines alongside existing AT&T MOBILITY lines.

**Other Existing/Reserved Loading**

Elev (ft)	Qty	Equipment	Lines
178.0	2	Antel RWA-80017LS ___ 5° 25%	(6) 7/8" Coax
	3	Ericsson Radio 4449	
	4	Antel RWA-80017LS ___ 3° 25%	
	6	CSS X7C-865-VRO	
176.0	1	Platform with Handrails	-
171.0	1	Raycap RCMDC-6627-PF-48	(1) 1 5/8" Hybriflex
155.0	1	Side Arm	-
103.0	1	Valmont GSA ISMD6	-
94.0	1	Andrew UHX6-107-P3A/K	(1) EW61
75.0	1	RFS SUX4-107BC	(1) E65

*(If table breaks across pages, please see previous page for data in merged cells)*



### **Standard Conditions**

All engineering services performed by ATC Tower Services LLC are prepared on the basis that the information used is current and correct. This information may consist of, but is not limited to the following:

- Information supplied by the client regarding antenna, mounts, and feed line loading
- Information from drawings, design and analysis documents, and field notes in the possession of ATC Tower Services LLC

It is the responsibility of the client to ensure that the information provided to ATC Tower Services LLC and used in the performance of our engineering services is correct and complete.

All assets of American Tower Corporation, its affiliates, and subsidiaries (collectively "American Tower") are inspected at regular intervals. Based upon these inspections and in the absence of information to the contrary, American Tower assumes that all structures were constructed in accordance with the drawings and specifications.

Unless explicitly agreed by both the client and ATC Tower Services LLC, all services will be performed in accordance with the current revision of ANSI/TIA-222.

All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. ATC Tower Services LLC is not responsible for the conclusions, opinions and recommendations made by others based on the information supplied herein.

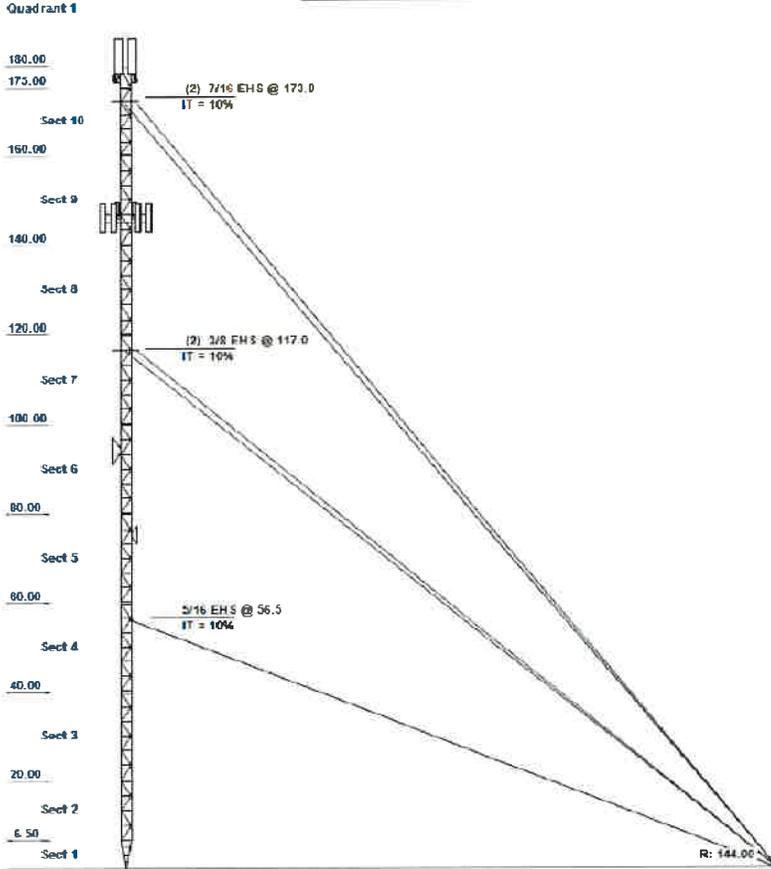
**ANALYSIS PARAMETERS**

Design Wind: 111 mph	Ice Wind: 51 mph w/ 1.14" ice	Service Wind: 60 mph
Risk Category II	Exposure: C	S <sub>DS</sub> : 0.081 S <sub>D1</sub> : 0.071
Topo Factor: Method 1	Topo Feature: Flat	
Structure Height: 180 ft	Base Elevation: 0 ft	Shape: Triangle
Base Width: 3.00 ft	Top Width: 3.00 ft	Base Type: Pivot

**TOWER SECTION PROPERTIES**

Section	Leg Members	Diagonal Members	Horizontal Members
1	SOL 50 ksi 1 3/4" SOLID		PL 36 ksi PL 8 x 0.5"
2	SOL 50 ksi 1 3/4" SOLID	SOL 36 ksi 1 1/4" SOLID	SOL 36 ksi 7/8" SOLID
3	SOL 50 ksi 1 3/4" SOLID	SOL 36 ksi 1" SOLID	SOL 36 ksi 7/8" SOLID
4	SOL 50 ksi 1 3/4" SOLID	SOL 36 ksi 1 1/4" SOLID	SOL 36 ksi 7/8" SOLID
5	SOL 50 ksi 1 3/4" SOLID	SOL 36 ksi 1" SOLID	SOL 36 ksi 7/8" SOLID
6 - 10	SOL 50 ksi 1 3/4" SOLID	SOL 36 ksi 1 1/4" SOLID	SOL 36 ksi 7/8" SOLID
11	SOL 50 ksi 2" SOLID	SOL 36 ksi 1 1/4" SOLID	SOL 36 ksi 7/8" SOLID

**Tower Elevation View**



**DISCRETE APPURTENANCE**

Elev (ft)	Description
178.0	(6) CSS X7C-865-VR0
178.0	(3) Ericsson Radio 4449
178.0	(4) Antel RWA-80017LS ___ 3° 25%
178.0	(2) Antel RWA-80017LS ___ 5° 25%
176.0	(1) Generic Round Platform with Handrail
173.0	(1) Torque Arms
171.0	(1) Raycap RCMD C-6627-PF-48
155.0	(1) Generic Round Side Arm
148.0	(3) Ericsson AIR 6472 B77G B77M (67.2l
146.0	(3) Ericsson Radio 4494 44B14 20B29 M0
146.0	(3) Ericsson Radio 4472HP B12A (30.6 lb
146.0	(3) Ericsson Radio 4890HP 48B2/B25 48
146.0	(3) CellMax CMA-UBTLBLBHHHP/6517/
146.0	(1) Raycap DC9-48-60-24-8C-EV (Enclos
146.0	(3) CellMax CMA-UBTULBULBHHP/6516/
146.0	(1) Raycap DC6-48-60-18-8C-EV (Enclos
146.0	(3) Generic Flat Light Sector Frame
146.0	(3) Ericsson Radio 4471 B30 (28.4lbs)
117.0	(1) Torque Arms
103.0	(1) Valmont GSA ISMD6
94.0	(1) Andrew UHX6-107-P3A/K
75.0	(1) RFS SUX4-107BC

**LINEAR APPURTENANCE**

Elev (ft)	Description
178.0	(6) 7/8" Coax
171.0	(1) 1 5/8" Hybriflex
146.0	(2) 0.96" (24.3mm) Cable
146.0	(1) 0.96" (24.3mm) Cable
146.0	(1) 0.39" (10mm) Fiber Trunk
146.0	(1) 0.40" (10.3mm) Fiber
146.0	(2) 0.78" (19.7mm) 8 AWG 6
94.0	(1) EW61
75.0	(1) E65

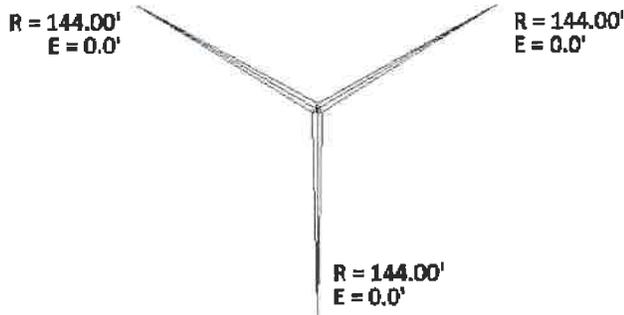
**GUY ANCHOR REACTIONS**

Radius (ft)	Drop (ft)	Azimuth (°)	Uplift (k)	Shear (k)
144.0	0.00	0	18.51	20.85
144.0	0.00	120	18.48	20.87
144.0	0.00	240	18.48	20.87

**BASE REACTIONS**

Axial (k):	81.04
Shear (k):	0.73

**Tower Plan View**



ASSET: 98575, PLEASANT DALE  
CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-I  
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#### ANALYSIS PARAMETERS

<b>Location:</b>	Seward County, NE	<b>Height:</b>	180 ft
<b>Type and Shape:</b>	Guyed, Triangle	<b>Base Elevation:</b>	0.00 ft
<b>Manufacturer:</b>	Sabre	<b>Bottom Face Width:</b>	3.00 ft
<b>Kd</b>	0.85	<b>Top Face Width:</b>	3.00 ft
<b>Ke:</b>	0.95		

#### ICE & WIND PARAMETERS

<b>Exposure Category:</b>	C	<b>Design Wind Speed Without Ice:</b>	111 mph
		<b>Design Wind Speed with Ice:</b>	51 mph
<b>Risk Category:</b>	II	<b>Operational Windspeed:</b>	60 mph
<b>Topographic Factor Procedure:</b>	Method 1		
<b>Crest Height(H):</b>	0 ft	<b>Design Ice Thickness:</b>	1.14 in
<b>Crest Length(L):</b>	0 ft	<b>HMSL:</b>	1540 ft
<b>Feature:</b>	Flat	<b>Distance from Apex (x):</b>	0
		<b>Upwind/Downwind:</b>	Upwind

#### SEISMIC PARAMETERS

<b>Analysis Method:</b>	Equivalent Lateral Force Method		
<b>Site Class:</b>	Default	<b>Period Based on Rayleigh Method (sec):</b>	1.09
<b>T<sub>L</sub> (sec):</b>	12	<b>P:</b>	1.3
<b>S<sub>ds</sub>:</b>	0.081	<b>S<sub>d1</sub>:</b>	0.071
		<b>C<sub>s</sub>:</b>	0.030
		<b>C<sub>s, Max</sub>:</b>	0.030
		<b>C<sub>s, Min</sub>:</b>	0.030

#### LOAD CASES

1.2D + 1.0W Normal	1.2D + 1.0W Normal - 111 mph Wind with No Ice
1.2D + 1.0W 60°	1.2D + 1.0W 60° - 111 mph Wind with No Ice
1.2D + 1.0W 90°	1.2D + 1.0W 90° - 111 mph Wind with No Ice
1.2D + 1.0W 120°	1.2D + 1.0W 120° - 111 mph Wind with No Ice
1.2D + 1.0W 180°	1.2D + 1.0W 180° - 111 mph Wind with No Ice
1.2D + 1.0W 210°	1.2D + 1.0W 210° - 111 mph Wind with No Ice
1.2D + 1.0W 240°	1.2D + 1.0W 240° - 111 mph Wind with No Ice
1.2D + 1.0W 300°	1.2D + 1.0W 300° - 111 mph Wind with No Ice
1.2D + 1.0W 330°	1.2D + 1.0W 330° - 111 mph Wind with No Ice
1.2D + 1.0Di + 1.0Wi Normal	1.2D + 1.0Di + 1.0Wi Normal - 51 mph Wind with 1.14" Radial Ice
1.2D + 1.0Di + 1.0Wi 60°	1.2D + 1.0Di + 1.0Wi 60° - 51 mph Wind with 1.14" Radial Ice
1.2D + 1.0Di + 1.0Wi 90°	1.2D + 1.0Di + 1.0Wi 90° - 51 mph Wind with 1.14" Radial Ice
1.2D + 1.0Di + 1.0Wi 120°	1.2D + 1.0Di + 1.0Wi 120° - 51 mph Wind with 1.14" Radial Ice
1.2D + 1.0Di + 1.0Wi 180°	1.2D + 1.0Di + 1.0Wi 180° - 51 mph Wind with 1.14" Radial Ice
1.2D + 1.0Di + 1.0Wi 210°	1.2D + 1.0Di + 1.0Wi 210° - 51 mph Wind with 1.14" Radial Ice
1.2D + 1.0Di + 1.0Wi 240°	1.2D + 1.0Di + 1.0Wi 240° - 51 mph Wind with 1.14" Radial Ice
1.2D + 1.0Di + 1.0Wi 300°	1.2D + 1.0Di + 1.0Wi 300° - 51 mph Wind with 1.14" Radial Ice
1.2D + 1.0Di + 1.0Wi 330°	1.2D + 1.0Di + 1.0Wi 330° - 51 mph Wind with 1.14" Radial Ice
1.2D + 1.0Ev + 1.0Eh Normal	1.2D + 1.0Ev + 1.0Eh Normal - Seismic
1.2D + 1.0Ev + 1.0Eh 60°	1.2D + 1.0Ev + 1.0Eh 60° - Seismic
1.2D + 1.0Ev + 1.0Eh 90°	1.2D + 1.0Ev + 1.0Eh 90° - Seismic
1.2D + 1.0Ev + 1.0Eh 120°	1.2D + 1.0Ev + 1.0Eh 120° - Seismic
1.2D + 1.0Ev + 1.0Eh 180°	1.2D + 1.0Ev + 1.0Eh 180° - Seismic
1.2D + 1.0Ev + 1.0Eh 210°	1.2D + 1.0Ev + 1.0Eh 210° - Seismic
1.2D + 1.0Ev + 1.0Eh 240°	1.2D + 1.0Ev + 1.0Eh 240° - Seismic
1.2D + 1.0Ev + 1.0Eh 300°	1.2D + 1.0Ev + 1.0Eh 300° - Seismic

ASSET: 98575, PLEASANT DALE  
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LOAD CASES

1.2D + 1.0Ev + 1.0Eh 330°	1.2D + 1.0Ev + 1.0Eh 330° - Seismic
1.0D + 1.0W Service Normal	1.0D + 1.0W Service Normal - 60 mph Wind with No Ice
1.0D + 1.0W Service 60°	1.0D + 1.0W Service 60° - 60 mph Wind with No Ice
1.0D + 1.0W Service 90°	1.0D + 1.0W Service 90° - 60 mph Wind with No Ice
1.0D + 1.0W Service 120°	1.0D + 1.0W Service 120° - 60 mph Wind with No Ice
1.0D + 1.0W Service 180°	1.0D + 1.0W Service 180° - 60 mph Wind with No Ice
1.0D + 1.0W Service 210°	1.0D + 1.0W Service 210° - 60 mph Wind with No Ice
1.0D + 1.0W Service 240°	1.0D + 1.0W Service 240° - 60 mph Wind with No Ice
1.0D + 1.0W Service 300°	1.0D + 1.0W Service 300° - 60 mph Wind with No Ice
1.0D + 1.0W Service 330°	1.0D + 1.0W Service 330° - 60 mph Wind with No Ice
1.2D + 1.0Ev + 1.5Eh Normal	1.2D + 1.0Ev + 1.5Eh Normal - Seismic Overstrength
1.2D + 1.0Ev + 1.5Eh 60°	1.2D + 1.0Ev + 1.5Eh 60° - Seismic Overstrength
1.2D + 1.0Ev + 1.5Eh 90°	1.2D + 1.0Ev + 1.5Eh 90° - Seismic Overstrength
1.2D + 1.0Ev + 1.5Eh 120°	1.2D + 1.0Ev + 1.5Eh 120° - Seismic Overstrength
1.2D + 1.0Ev + 1.5Eh 180°	1.2D + 1.0Ev + 1.5Eh 180° - Seismic Overstrength
1.2D + 1.0Ev + 1.5Eh 210°	1.2D + 1.0Ev + 1.5Eh 210° - Seismic Overstrength
1.2D + 1.0Ev + 1.5Eh 240°	1.2D + 1.0Ev + 1.5Eh 240° - Seismic Overstrength
1.2D + 1.0Ev + 1.5Eh 300°	1.2D + 1.0Ev + 1.5Eh 300° - Seismic Overstrength
1.2D + 1.0Ev + 1.5Eh 330°	1.2D + 1.0Ev + 1.5Eh 330° - Seismic Overstrength

ASSET: 98575, PLEASANT DALE  
 CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-I  
 PROJECT: 15440745\_C3\_03

TOWER LOADING - DISCRETE APPURTENANCE

Discrete Appurtenance Properties for LC: 1.2D + 1.0W

Elev (ft)	Description	Qty	Wt. (lb)	EPA (sf)	Length (ft)	Width (in)	Depth (in)	K <sub>a</sub>	Orient. Factor	Vert. Ecc. (ft)	M <sub>u</sub> (lb-ft)	Q <sub>z</sub> (psf)	F <sub>a</sub> (WL) (lb)	P <sub>a</sub> (DL) (lb)
178.0	Ericsson Radio 4449	3	85	3.5	2.3	15.0	10.0	0.75	0.67	2.0	321.45	35.84	161	306
178.0	Antel RWA-80017LS ___ 5° 25%	2	31	10.9	8.0	11.2	5.9	0.75	0.68	2.0	677.98	35.84	339	74
178.0	Antel RWA-80017LS ___ 3° 25%	4	31	10.9	8.0	11.2	5.9	0.75	0.68	2.0	1,355.96	35.84	678	149
178.0	CSS X7C-865-VR0	6	40	11.9	8.0	12.5	7.1	0.75	0.69	2.0	2,242.81	35.84	1121	288
176.0	Generic Round Platform with Ha	1	2500	27.2	0.0	0.0	0.0	1.00	1.00	0.0	0.00	35.67	825	3000
173.0	Torque Arms	1	500	15.0	0.0	0.0	0.0	1.00	1.00	0.0	0.00	35.55	453	600
171.0	Raycap RCMDC-6627-PF-48	1	32	4.1	2.5	16.5	12.6	0.75	1.00	0.0	0.00	35.46	92	38
155.0	Generic Round Side Arm	1	188	5.2	0.0	0.0	0.0	1.00	1.00	0.0	0.00	34.76	154	225
148.0	Ericsson AIR 6472 B77G B77M (6	3	67	4.8	3.0	15.8	7.4	0.80	0.65	0.0	0.00	34.43	218	242
146.0	Ericsson Radio 4472HP B12A (30	3	31	1.2	1.2	10.3	5.7	0.80	0.50	0.0	0.00	34.34	42	110
146.0	Ericsson Radio 4471 B30 (28.4I	3	28	1.4	1.3	10.6	5.4	0.80	0.50	0.0	0.00	34.34	50	102
146.0	Ericsson Radio 4494 44B14 20B2	3	57	2.2	1.5	15.1	5.6	0.80	0.67	0.0	0.00	34.34	103	206
146.0	Ericsson Radio 4890HP 48B2/B25	3	68	2.2	1.5	15.1	6.9	0.80	0.67	0.0	0.00	34.34	103	246
146.0	Raycap DC9-48-60-24-8C-EV (Enc	1	19	2.7	2.2	12.4	9.7	0.80	1.00	0.0	0.00	34.34	62	22
146.0	Raycap DC6-48-60-18-8C-EV (Enc	1	16	2.7	2.2	12.4	9.7	0.80	1.00	0.0	0.00	34.34	63	19
146.0	CellMax CMA-UBTULBULBHHHP/6516/	3	126	14.8	6.0	24.0	10.4	0.80	0.64	0.0	0.00	34.34	663	452
146.0	CellMax CMA-UBTLBLBHHHHHP/6517/	3	143	15.8	6.4	24.0	8.0	0.80	0.62	0.0	0.00	34.34	686	515
146.0	Generic Flat Light Sector Fram	3	800	17.9	0.0	0.0	0.0	0.75	0.67	0.0	0.00	34.34	788	2880
117.0	Torque Arms	1	500	15.0	0.0	0.0	0.0	1.00	1.00	0.0	0.00	32.82	418	600
103.0	Valmont GSA ISMD6	1	300	2.4	0.3	72.0	62.0	1.00	1.00	0.0	0.00	31.98	65	360
94.0	Andrew UHX6-107-P3A/K	1	320	41.3	6.5	77.5	53.3	1.00	1.00	0.1	110.29	31.39	1103	384
75.0	RFS SUX4-107BC	1	77	18.4	4.3	51.7	32.1	1.00	1.00	0.0	0.00	29.97	469	92
<b>Totals</b>		<b>49</b>	<b>9,093</b>	<b>461.9</b>									<b>8,656</b>	<b>10,912</b>

Discrete Appurtenance Properties for LC: 1.2D + 1.0Di + 1.0Wi

Elev (ft)	Description	Qty	Ice Wt (lb)	Ice EPA (sf)	Length (ft)	Width (in)	Depth (in)	K <sub>a</sub>	Orient. Factor	Vert. Ecc. (ft)	M <sub>u</sub> (lb-ft)	Q <sub>z</sub> (psf)	F <sub>a</sub> (WL) (lb)	P <sub>a</sub> (DL) (lb)
178.0	Ericsson Radio 4449	3	164	4.5	2.3	15.0	10.0	0.75	0.67	2.0	87.05	7.57	44	543
178.0	Antel RWA-80017LS ___ 5° 25%	2	208	12.2	8.0	11.2	5.9	0.75	0.68	2.0	160.09	7.57	80	429
178.0	Antel RWA-80017LS ___ 3° 25%	4	208	12.2	8.0	11.2	5.9	0.75	0.68	2.0	320.18	7.57	160	859
178.0	CSS X7C-865-VR0	6	217	14.4	8.0	12.5	7.1	0.75	0.69	2.0	573.86	7.57	287	1351
176.0	Generic Round Platform with Ha	1	3754	46.1	0.0	0.0	0.0	1.00	1.00	0.0	0.00	7.53	295	4254
173.0	Torque Arms	1	715	21.4	0.0	0.0	0.0	1.00	1.00	0.0	0.00	7.50	137	815
171.0	Raycap RCMDC-6627-PF-48	1	130	5.1	2.5	16.5	12.6	0.75	1.00	0.0	0.00	7.49	24	136
155.0	Generic Round Side Arm	1	257	7.3	0.0	0.0	0.0	1.00	1.00	0.0	0.00	7.34	45	295
148.0	Ericsson AIR 6472 B77G B77M (6	3	155	6.0	3.0	15.8	7.4	0.80	0.65	0.0	0.00	7.27	57	505
146.0	Ericsson Radio 4472HP B12A (30	3	57	1.8	1.2	10.3	5.7	0.80	0.50	0.0	0.00	7.25	13	191
146.0	Ericsson Radio 4471 B30 (28.4I	3	58	2.0	1.3	10.6	5.4	0.80	0.50	0.0	0.00	7.25	15	192
146.0	Ericsson Radio 4494 44B14 20B2	3	99	2.9	1.5	15.1	5.6	0.80	0.67	0.0	0.00	7.25	29	332
146.0	Ericsson Radio 4890HP 48B2/B25	3	114	2.9	1.5	15.1	6.9	0.80	0.67	0.0	0.00	7.25	29	383
146.0	Raycap DC9-48-60-24-8C-EV (Enc	1	82	3.5	2.2	12.4	9.7	0.80	1.00	0.0	0.00	7.25	17	86
146.0	Raycap DC6-48-60-18-8C-EV (Enc	1	80	3.6	2.2	12.4	9.7	0.80	1.00	0.0	0.00	7.25	18	83
146.0	CellMax CMA-UBTULBULBHHHP/6516/	3	371	17.0	6.0	24.0	10.4	0.80	0.64	0.0	0.00	7.25	161	1188
146.0	CellMax CMA-UBTLBLBHHHHHP/6517/	3	381	18.1	6.4	24.0	8.0	0.80	0.62	0.0	0.00	7.25	166	1228
146.0	Generic Flat Light Sector Fram	3	1649	29.4	0.0	0.0	0.0	0.75	0.67	0.0	0.00	7.25	273	5427
117.0	Torque Arms	1	706	21.2	0.0	0.0	0.0	1.00	1.00	0.0	0.00	6.93	125	806
103.0	Valmont GSA ISMD6	1	745	4.0	0.3	72.0	62.0	1.00	1.00	0.0	0.00	6.75	23	805
94.0	Andrew UHX6-107-P3A/K	1	913	44.0	6.5	77.5	53.3	1.00	1.00	0.1	24.81	6.63	248	977
75.0	RFS SUX4-107BC	1	338	20.2	4.3	51.7	32.1	1.00	1.00	0.0	0.00	6.33	108	353
<b>Totals</b>		<b>49</b>	<b>19,418</b>	<b>589.7</b>									<b>2355</b>	<b>21,236</b>

Discrete Appurtenance Properties for LC: 1.0D + 1.0W Service

Elev (ft)	Description	Qty	Wt. (lb)	EPA (sf)	Length (ft)	Width (in)	Depth (in)	K <sub>a</sub>	Orient. Factor	Vert. Ecc. (ft)	M <sub>u</sub> (lb-ft)	Q <sub>z</sub> (psf)	F <sub>a</sub> (WL) (lb)	P <sub>a</sub> (DL) (lb)
178.0	Ericsson Radio 4449	3	85	3.5	2.3	15.0	10.0	0.75	0.67	2.0	93.92	10.47	47	255
178.0	Antel RWA-80017LS ___ 5° 25%	2	31	10.9	8.0	11.2	5.9	0.75	0.68	2.0	198.09	10.47	99	62
178.0	Antel RWA-80017LS ___ 3° 25%	4	31	10.9	8.0	11.2	5.9	0.75	0.68	2.0	396.19	10.47	198	124
178.0	CSS X7C-865-VR0	6	40	11.9	8.0	12.5	7.1	0.75	0.69	2.0	655.31	10.47	328	240
176.0	Generic Round Platform with Ha	1	2500	27.2	0.0	0.0	0.0	1.00	1.00	0.0	0.00	10.42	241	2500
173.0	Torque Arms	1	500	15.0	0.0	0.0	0.0	1.00	1.00	0.0	0.00	10.39	132	500
171.0	Raycap RCMDC-6627-PF-48	1	32	4.1	2.5	16.5	12.6	0.75	1.00	0.0	0.00	10.36	27	32
155.0	Generic Round Side Arm	1	188	5.2	0.0	0.0	0.0	1.00	1.00	0.0	0.00	10.16	45	188
148.0	Ericsson AIR 6472 B77G B77M (6	3	67	4.8	3.0	15.8	7.4	0.80	0.65	0.0	0.00	10.06	64	202
146.0	Ericsson Radio 4472HP B12A (30	3	31	1.2	1.2	10.3	5.7	0.80	0.50	0.0	0.00	10.03	12	92
146.0	Ericsson Radio 4471 B30 (28.4I	3	28	1.4	1.3	10.6	5.4	0.80	0.50	0.0	0.00	10.03	15	85
146.0	Ericsson Radio 4494 44B14 20B2	3	57	2.2	1.5	15.1	5.6	0.80	0.67	0.0	0.00	10.03	30	172
146.0	Ericsson Radio 4890HP 48B2/B25	3	68	2.2	1.5	15.1	6.9	0.80	0.67	0.0	0.00	10.03	30	205
146.0	Raycap DC9-48-60-24-8C-EV (Enc	1	19	2.7	2.2	12.4	9.7	0.80	1.00	0.0	0.00	10.03	18	18
146.0	Raycap DC6-48-60-18-8C-EV (Enc	1	16	2.7	2.2	12.4	9.7	0.80	1.00	0.0	0.00	10.03	18	16
146.0	CellMax CMA-UBTULBULBHHHP/6516/	3	126	14.8	6.0	24.0	10.4	0.80	0.64	0.0	0.00	10.03	194	377
146.0	CellMax CMA-UBTLBLBHHHHHP/6517/	3	143	15.8	6.4	24.0	8.0	0.80	0.62	0.0	0.00	10.03	201	429
146.0	Generic Flat Light Sector Fram	3	800	17.9	0.0	0.0	0.0	0.75	0.67	0.0	0.00	10.03	230	2400
117.0	Torque Arms	1	500	15.0	0.0	0.0	0.0	1.00	1.00	0.0	0.00	9.59	122	500

ASSET: 98575, PLEASANT DALE  
 CUSTOMER: AT&T MOBILITY

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Elev (ft)	Description	Qty	Wt. (lb)	EPA (sf)	Length (ft)	Width (in)	Depth (in)	K <sub>a</sub>	Orient. Factor	Vert. Ecc. (ft)	M <sub>u</sub> (lb-ft)	Q <sub>z</sub> (psf)	F <sub>a</sub> (WL) (lb)	P <sub>a</sub> (DL) (lb)
103.0	Valmont GSA ISMD6	1	300	2.4	0.3	72.0	62.0	1.00	1.00	0.0	0.00	9.34	19	300
94.0	Andrew UHX6-107-P3A/K	1	320	41.3	6.5	77.5	53.3	1.00	1.00	0.1	32.23	9.17	322	320
75.0	RFS SUX4-107BC	1	77	18.4	4.3	51.7	32.1	1.00	1.00	0.0	0.00	8.76	137	77
<b>Totals</b>		<b>49</b>	<b>9,093</b>	<b>461.9</b>									<b>2,529</b>	<b>9,093</b>

ASSET: 98575, PLEASANT DALE  
 CUSTOMER: AT&T MOBILITY

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TOWER LOADING – LINEAR APPURTENANCE

Linear Appurtenance Properties

Elev From (ft)	Elev To (ft)	Description	Qty	Width (in)	Weight (lb/ft)	% In Wind	Spread On Faces	Bundling	Cluster Dia (in)	Out of Zone	Spacing (in)	Orient. Factor	K <sub>s</sub> Override
5.0	178.0	7/8" Coax	6	1.09	0.33	50	1	Block	0.00	N	1.00	1.00	0.00
5.0	94.0	EW61	1	2.20	0.68	100	3	Individual	0.00	N	1.00	1.00	0.00
0.0	171.0	1 5/8" Hybriflex	1	1.98	1.30	100	1	Individual	0.00	N	1.00	1.00	0.00
0.0	146.0	0.78" (19.7mm) 8 AWG 6	2	0.78	0.59	100	2	Individual	0.00	N	1.00	1.00	0.00
0.0	146.0	0.39" (10mm) Fiber Trunk	1	0.39	0.06	100	2	Individual	0.00	N	1.00	1.00	0.00
0.0	146.0	0.96" (24.3mm) Cable	1	0.96	0.88	100	2	Individual	0.00	N	1.00	1.00	0.00
0.0	146.0	0.96" (24.3mm) Cable	2	0.96	0.88	100	2	Individual	0.00	N	1.00	1.00	0.00
0.0	146.0	0.40" (10.3mm) Fiber	1	0.40	0.09	100	2	Individual	0.00	N	1.00	1.00	0.00
0.0	75.0	E65	1	2.00	0.50	100	1	Individual	0.00	N	1.00	1.00	0.00

**SECTION FORCES**

1.2D + 1.0W Normal  
 111 mph Wind with No Ice

Gust Response Factor (Gh): 0.85  
 Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q <sub>z</sub> (psf)	A <sub>r</sub> (sf)	A <sub>r</sub> (sf)	Ice A <sub>r</sub> (sf)	e	C <sub>t</sub>	D <sub>t</sub>	D <sub>r</sub>	T <sub>lz</sub> (in)	A <sub>e</sub> (sf)	EPA <sub>a</sub> (sf)	EPA <sub>ai</sub> (sf)	Wt (lb)	Ice Wt (lb)	F <sub>st</sub> (lb)	F <sub>a</sub> (lb)	Force (lb)
11	178	35.74	0.000	2.637	0.00	0.166	2.71	1.00	1.00	0.0	1.53	4.14	0.00	327	0	126	36	161
10	168	35.32	0.000	7.730	0.00	0.164	2.72	1.00	1.00	0.0	4.48	12.19	0.00	942	0	366	216	582
9	150	34.53	0.000	9.973	0.00	0.158	2.74	1.00	1.00	0.0	5.76	15.79	0.00	1252	0	464	355	819
8	130	33.54	0.000	9.973	0.00	0.158	2.74	1.00	1.00	0.0	5.76	15.79	0.00	1318	0	450	470	921
7	110	32.41	0.000	9.973	0.00	0.158	2.74	1.00	1.00	0.0	5.76	15.79	0.00	1318	0	435	455	890
6	90	31.11	0.000	9.973	0.00	0.158	2.74	1.00	1.00	0.0	5.76	15.79	0.00	1330	0	418	485	903
5	70	29.56	0.000	9.436	0.00	0.150	2.77	1.00	1.00	0.0	5.44	15.08	0.00	1200	0	379	526	905
4	50	27.59	0.500	9.765	0.00	0.163	2.72	1.00	1.00	0.0	6.14	16.74	0.00	1359	0	393	505	898
3	30	24.86	0.000	9.436	0.00	0.150	2.77	1.00	1.00	0.0	5.44	15.08	0.00	1203	0	319	455	774
2	13	21.55	0.000	6.770	0.00	0.159	2.74	1.00	1.00	0.0	3.91	10.71	0.00	912	0	196	266	463
1	3	21.55	4.611	1.962	0.00	0.614	1.80	1.00	1.00	0.0	6.09	10.93	0.00	616	0	200	52	252
<b>Totals</b>														<b>11,776</b>	<b>0</b>	<b>7,566</b>		

1.2D + 1.0W 60°  
 111 mph Wind with No Ice

Gust Response Factor (Gh): 0.85  
 Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q <sub>z</sub> (psf)	A <sub>r</sub> (sf)	A <sub>r</sub> (sf)	Ice A <sub>r</sub> (sf)	e	C <sub>t</sub>	D <sub>t</sub>	D <sub>r</sub>	T <sub>lz</sub> (in)	A <sub>e</sub> (sf)	EPA <sub>a</sub> (sf)	EPA <sub>ai</sub> (sf)	Wt (lb)	Ice Wt (lb)	F <sub>st</sub> (lb)	F <sub>a</sub> (lb)	Force (lb)
11	178	35.74	0.000	2.637	0.00	0.166	2.71	0.80	1.00	0.0	1.53	4.14	0.00	327	0	126	36	161
10	168	35.32	0.000	7.730	0.00	0.164	2.72	0.80	1.00	0.0	4.48	12.19	0.00	942	0	366	216	582
9	150	34.53	0.000	9.973	0.00	0.158	2.74	0.80	1.00	0.0	5.76	15.79	0.00	1252	0	464	355	819
8	130	33.54	0.000	9.973	0.00	0.158	2.74	0.80	1.00	0.0	5.76	15.79	0.00	1318	0	450	470	921
7	110	32.41	0.000	9.973	0.00	0.158	2.74	0.80	1.00	0.0	5.76	15.79	0.00	1318	0	435	455	890
6	90	31.11	0.000	9.973	0.00	0.158	2.74	0.80	1.00	0.0	5.76	15.79	0.00	1330	0	418	485	903
5	70	29.56	0.000	9.436	0.00	0.150	2.77	0.80	1.00	0.0	5.44	15.08	0.00	1200	0	379	526	905
4	50	27.59	0.500	9.765	0.00	0.163	2.72	0.80	1.00	0.0	6.04	16.46	0.00	1359	0	386	505	891
3	30	24.86	0.000	9.436	0.00	0.150	2.77	0.80	1.00	0.0	5.44	15.08	0.00	1203	0	319	455	774
2	13	21.55	0.000	6.770	0.00	0.159	2.74	0.80	1.00	0.0	3.91	10.71	0.00	912	0	196	266	463
1	3	21.55	4.611	1.962	0.00	0.614	1.80	0.80	1.00	0.0	5.17	9.28	0.00	616	0	170	52	222
<b>Totals</b>														<b>11,776</b>	<b>0</b>	<b>7,529</b>		

1.2D + 1.0W 90°  
 111 mph Wind with No Ice

Gust Response Factor (Gh): 0.85  
 Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q <sub>z</sub> (psf)	A <sub>r</sub> (sf)	A <sub>r</sub> (sf)	Ice A <sub>r</sub> (sf)	e	C <sub>t</sub>	D <sub>t</sub>	D <sub>r</sub>	T <sub>lz</sub> (in)	A <sub>e</sub> (sf)	EPA <sub>a</sub> (sf)	EPA <sub>ai</sub> (sf)	Wt (lb)	Ice Wt (lb)	F <sub>st</sub> (lb)	F <sub>a</sub> (lb)	Force (lb)
11	178	35.74	0.000	2.637	0.00	0.166	2.71	0.85	1.00	0.0	1.53	4.14	0.00	327	0	126	36	161
10	168	35.32	0.000	7.730	0.00	0.164	2.72	0.85	1.00	0.0	4.48	12.19	0.00	942	0	366	216	582
9	150	34.53	0.000	9.973	0.00	0.158	2.74	0.85	1.00	0.0	5.76	15.79	0.00	1252	0	464	355	819
8	130	33.54	0.000	9.973	0.00	0.158	2.74	0.85	1.00	0.0	5.76	15.79	0.00	1318	0	450	470	921
7	110	32.41	0.000	9.973	0.00	0.158	2.74	0.85	1.00	0.0	5.76	15.79	0.00	1318	0	435	455	890
6	90	31.11	0.000	9.973	0.00	0.158	2.74	0.85	1.00	0.0	5.76	15.79	0.00	1330	0	418	485	903
5	70	29.56	0.000	9.436	0.00	0.150	2.77	0.85	1.00	0.0	5.44	15.08	0.00	1200	0	379	526	905
4	50	27.59	0.500	9.765	0.00	0.163	2.72	0.85	1.00	0.0	6.07	16.53	0.00	1359	0	388	505	893
3	30	24.86	0.000	9.436	0.00	0.150	2.77	0.85	1.00	0.0	5.44	15.08	0.00	1203	0	319	455	774
2	13	21.55	0.000	6.770	0.00	0.159	2.74	0.85	1.00	0.0	3.91	10.71	0.00	912	0	196	266	463
1	3	21.55	4.611	1.962	0.00	0.614	1.80	0.85	1.00	0.0	5.40	9.69	0.00	616	0	178	52	229
<b>Totals</b>														<b>11,776</b>	<b>0</b>	<b>7,538</b>		

1.2D + 1.0W 120°  
 111 mph Wind with No Ice

Gust Response Factor (Gh): 0.85  
 Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q <sub>z</sub> (psf)	A <sub>r</sub> (sf)	A <sub>r</sub> (sf)	Ice A <sub>r</sub> (sf)	e	C <sub>t</sub>	D <sub>t</sub>	D <sub>r</sub>	T <sub>lz</sub> (in)	A <sub>e</sub> (sf)	EPA <sub>a</sub> (sf)	EPA <sub>ai</sub> (sf)	Wt (lb)	Ice Wt (lb)	F <sub>st</sub> (lb)	F <sub>a</sub> (lb)	Force (lb)
11	178	35.74	0.000	2.637	0.00	0.166	2.71	1.00	1.00	0.0	1.53	4.14	0.00	327	0	126	36	161
10	168	35.32	0.000	7.730	0.00	0.164	2.72	1.00	1.00	0.0	4.48	12.19	0.00	942	0	366	216	582
9	150	34.53	0.000	9.973	0.00	0.158	2.74	1.00	1.00	0.0	5.76	15.79	0.00	1252	0	464	355	819
8	130	33.54	0.000	9.973	0.00	0.158	2.74	1.00	1.00	0.0	5.76	15.79	0.00	1318	0	450	470	921
7	110	32.41	0.000	9.973	0.00	0.158	2.74	1.00	1.00	0.0	5.76	15.79	0.00	1318	0	435	455	890
6	90	31.11	0.000	9.973	0.00	0.158	2.74	1.00	1.00	0.0	5.76	15.79	0.00	1330	0	418	485	903
5	70	29.56	0.000	9.436	0.00	0.150	2.77	1.00	1.00	0.0	5.44	15.08	0.00	1200	0	379	526	905
4	50	27.59	0.500	9.765	0.00	0.163	2.72	1.00	1.00	0.0	6.14	16.74	0.00	1359	0	393	505	898
3	30	24.86	0.000	9.436	0.00	0.150	2.77	1.00	1.00	0.0	5.44	15.08	0.00	1203	0	319	455	774
2	13	21.55	0.000	6.770	0.00	0.159	2.74	1.00	1.00	0.0	3.91	10.71	0.00	912	0	196	266	463
1	3	21.55	4.611	1.962	0.00	0.614	1.80	1.00	1.00	0.0	6.09	10.93	0.00	616	0	200	52	252
<b>Totals</b>														<b>11,776</b>	<b>0</b>	<b>7,566</b>		

1.2D + 1.0W 180°  
 111 mph Wind with No Ice

Gust Response Factor (Gh): 0.85  
 Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q <sub>z</sub> (psf)	A <sub>r</sub> (sf)	A <sub>r</sub> (sf)	Ice A <sub>r</sub> (sf)	e	C <sub>t</sub>	D <sub>t</sub>	D <sub>r</sub>	T <sub>lz</sub> (in)	A <sub>e</sub> (sf)	EPA <sub>a</sub> (sf)	EPA <sub>ai</sub> (sf)	Wt (lb)	Ice Wt (lb)	F <sub>st</sub> (lb)	F <sub>a</sub> (lb)	Force (lb)
11	178	35.74	0.000	2.637	0.00	0.166	2.71	0.80	1.00	0.0	1.53	4.14	0.00	327	0	126	36	161
10	168	35.32	0.000	7.730	0.00	0.164	2.72	0.80	1.00	0.0	4.48	12.19	0.00	942	0	366	216	582
9	150	34.53	0.000	9.973	0.00	0.158	2.74	0.80	1.00	0.0	5.76	15.79	0.00	1252	0	464	355	819
8	130	33.54	0.000	9.973	0.00	0.158	2.74	0.80	1.00	0.0	5.76	15.79	0.00	1318	0	450	470	921
7	110	32.41	0.000	9.973	0.00	0.158	2.74	0.80	1.00	0.0	5.76	15.79	0.00	1318	0	435	455	890

ASSET: 98575, PLEASANT DALE  
 CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-I  
 PROJECT: 15440745\_C3\_03

**SECTION FORCES**

1.2D + 1.0W 180° Gust Response Factor (Gh): 0.85  
 111 mph Wind with No Ice Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q <sub>z</sub> (psf)	A <sub>r</sub> (sf)	A <sub>r</sub> (sf)	Ice A <sub>r</sub> (sf)	e	C <sub>r</sub>	D <sub>r</sub>	D <sub>r</sub>	T <sub>lz</sub> (in)	A <sub>e</sub> (sf)	EPA <sub>a</sub> (sf)	EPA <sub>ai</sub> (sf)	Wt (lb)	Ice Wt (lb)	F <sub>st</sub> (lb)	F <sub>a</sub> (lb)	Force (lb)
6	90	31.11	0.000	9.973	0.00	0.158	2.74	0.80	1.00	0.0	5.76	15.79	0.00	1330	0	418	485	903
5	70	29.56	0.000	9.436	0.00	0.150	2.77	0.80	1.00	0.0	5.44	15.08	0.00	1200	0	379	526	905
4	50	27.59	0.500	9.765	0.00	0.163	2.72	0.80	1.00	0.0	6.04	16.46	0.00	1359	0	386	505	891
3	30	24.86	0.000	9.436	0.00	0.150	2.77	0.80	1.00	0.0	5.44	15.08	0.00	1203	0	319	455	774
2	13	21.55	0.000	6.770	0.00	0.159	2.74	0.80	1.00	0.0	3.91	10.71	0.00	912	0	196	266	463
1	3	21.55	4.611	1.962	0.00	0.614	1.80	0.80	1.00	0.0	5.17	9.28	0.00	616	0	170	52	222
<b>Totals</b>															<b>11,776</b>	<b>0</b>	<b>7,529</b>	

1.2D + 1.0W 210° Gust Response Factor (Gh): 0.85  
 111 mph Wind with No Ice Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q <sub>z</sub> (psf)	A <sub>r</sub> (sf)	A <sub>r</sub> (sf)	Ice A <sub>r</sub> (sf)	e	C <sub>r</sub>	D <sub>r</sub>	D <sub>r</sub>	T <sub>lz</sub> (in)	A <sub>e</sub> (sf)	EPA <sub>a</sub> (sf)	EPA <sub>ai</sub> (sf)	Wt (lb)	Ice Wt (lb)	F <sub>st</sub> (lb)	F <sub>a</sub> (lb)	Force (lb)
11	178	35.74	0.000	2.637	0.00	0.166	2.71	0.85	1.00	0.0	1.53	4.14	0.00	327	0	126	36	161
10	168	35.32	0.000	7.730	0.00	0.164	2.72	0.85	1.00	0.0	4.48	12.19	0.00	942	0	366	216	582
9	150	34.53	0.000	9.973	0.00	0.158	2.74	0.85	1.00	0.0	5.76	15.79	0.00	1252	0	464	355	819
8	130	33.54	0.000	9.973	0.00	0.158	2.74	0.85	1.00	0.0	5.76	15.79	0.00	1318	0	450	470	921
7	110	32.41	0.000	9.973	0.00	0.158	2.74	0.85	1.00	0.0	5.76	15.79	0.00	1318	0	435	455	890
6	90	31.11	0.000	9.973	0.00	0.158	2.74	0.85	1.00	0.0	5.76	15.79	0.00	1330	0	418	485	903
5	70	29.56	0.000	9.436	0.00	0.150	2.77	0.85	1.00	0.0	5.44	15.08	0.00	1200	0	379	526	905
4	50	27.59	0.500	9.765	0.00	0.163	2.72	0.85	1.00	0.0	6.07	16.53	0.00	1359	0	388	505	893
3	30	24.86	0.000	9.436	0.00	0.150	2.77	0.85	1.00	0.0	5.44	15.08	0.00	1203	0	319	455	774
2	13	21.55	0.000	6.770	0.00	0.159	2.74	0.85	1.00	0.0	3.91	10.71	0.00	912	0	196	266	463
1	3	21.55	4.611	1.962	0.00	0.614	1.80	0.85	1.00	0.0	5.40	9.69	0.00	616	0	178	52	229
<b>Totals</b>															<b>11,776</b>	<b>0</b>	<b>7,538</b>	

1.2D + 1.0W 240° Gust Response Factor (Gh): 0.85  
 111 mph Wind with No Ice Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q <sub>z</sub> (psf)	A <sub>r</sub> (sf)	A <sub>r</sub> (sf)	Ice A <sub>r</sub> (sf)	e	C <sub>r</sub>	D <sub>r</sub>	D <sub>r</sub>	T <sub>lz</sub> (in)	A <sub>e</sub> (sf)	EPA <sub>a</sub> (sf)	EPA <sub>ai</sub> (sf)	Wt (lb)	Ice Wt (lb)	F <sub>st</sub> (lb)	F <sub>a</sub> (lb)	Force (lb)
11	178	35.74	0.000	2.637	0.00	0.166	2.71	1.00	1.00	0.0	1.53	4.14	0.00	327	0	126	36	161
10	168	35.32	0.000	7.730	0.00	0.164	2.72	1.00	1.00	0.0	4.48	12.19	0.00	942	0	366	216	582
9	150	34.53	0.000	9.973	0.00	0.158	2.74	1.00	1.00	0.0	5.76	15.79	0.00	1252	0	464	355	819
8	130	33.54	0.000	9.973	0.00	0.158	2.74	1.00	1.00	0.0	5.76	15.79	0.00	1318	0	450	470	921
7	110	32.41	0.000	9.973	0.00	0.158	2.74	1.00	1.00	0.0	5.76	15.79	0.00	1318	0	435	455	890
6	90	31.11	0.000	9.973	0.00	0.158	2.74	1.00	1.00	0.0	5.76	15.79	0.00	1330	0	418	485	903
5	70	29.56	0.000	9.436	0.00	0.150	2.77	1.00	1.00	0.0	5.44	15.08	0.00	1200	0	379	526	905
4	50	27.59	0.500	9.765	0.00	0.163	2.72	1.00	1.00	0.0	6.14	16.74	0.00	1359	0	393	505	898
3	30	24.86	0.000	9.436	0.00	0.150	2.77	1.00	1.00	0.0	5.44	15.08	0.00	1203	0	319	455	774
2	13	21.55	0.000	6.770	0.00	0.159	2.74	1.00	1.00	0.0	3.91	10.71	0.00	912	0	196	266	463
1	3	21.55	4.611	1.962	0.00	0.614	1.80	1.00	1.00	0.0	6.09	10.93	0.00	616	0	200	52	252
<b>Totals</b>															<b>11,776</b>	<b>0</b>	<b>7,566</b>	

1.2D + 1.0W 300° Gust Response Factor (Gh): 0.85  
 111 mph Wind with No Ice Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q <sub>z</sub> (psf)	A <sub>r</sub> (sf)	A <sub>r</sub> (sf)	Ice A <sub>r</sub> (sf)	e	C <sub>r</sub>	D <sub>r</sub>	D <sub>r</sub>	T <sub>lz</sub> (in)	A <sub>e</sub> (sf)	EPA <sub>a</sub> (sf)	EPA <sub>ai</sub> (sf)	Wt (lb)	Ice Wt (lb)	F <sub>st</sub> (lb)	F <sub>a</sub> (lb)	Force (lb)
11	178	35.74	0.000	2.637	0.00	0.166	2.71	0.80	1.00	0.0	1.53	4.14	0.00	327	0	126	36	161
10	168	35.32	0.000	7.730	0.00	0.164	2.72	0.80	1.00	0.0	4.48	12.19	0.00	942	0	366	216	582
9	150	34.53	0.000	9.973	0.00	0.158	2.74	0.80	1.00	0.0	5.76	15.79	0.00	1252	0	464	355	819
8	130	33.54	0.000	9.973	0.00	0.158	2.74	0.80	1.00	0.0	5.76	15.79	0.00	1318	0	450	470	921
7	110	32.41	0.000	9.973	0.00	0.158	2.74	0.80	1.00	0.0	5.76	15.79	0.00	1318	0	435	455	890
6	90	31.11	0.000	9.973	0.00	0.158	2.74	0.80	1.00	0.0	5.76	15.79	0.00	1330	0	418	485	903
5	70	29.56	0.000	9.436	0.00	0.150	2.77	0.80	1.00	0.0	5.44	15.08	0.00	1200	0	379	526	905
4	50	27.59	0.500	9.765	0.00	0.163	2.72	0.80	1.00	0.0	6.04	16.46	0.00	1359	0	386	505	891
3	30	24.86	0.000	9.436	0.00	0.150	2.77	0.80	1.00	0.0	5.44	15.08	0.00	1203	0	319	455	774
2	13	21.55	0.000	6.770	0.00	0.159	2.74	0.80	1.00	0.0	3.91	10.71	0.00	912	0	196	266	463
1	3	21.55	4.611	1.962	0.00	0.614	1.80	0.80	1.00	0.0	5.17	9.28	0.00	616	0	170	52	222
<b>Totals</b>															<b>11,776</b>	<b>0</b>	<b>7,529</b>	

1.2D + 1.0W 330° Gust Response Factor (Gh): 0.85  
 111 mph Wind with No Ice Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q <sub>z</sub> (psf)	A <sub>r</sub> (sf)	A <sub>r</sub> (sf)	Ice A <sub>r</sub> (sf)	e	C <sub>r</sub>	D <sub>r</sub>	D <sub>r</sub>	T <sub>lz</sub> (in)	A <sub>e</sub> (sf)	EPA <sub>a</sub> (sf)	EPA <sub>ai</sub> (sf)	Wt (lb)	Ice Wt (lb)	F <sub>st</sub> (lb)	F <sub>a</sub> (lb)	Force (lb)
11	178	35.74	0.000	2.637	0.00	0.166	2.71	0.85	1.00	0.0	1.53	4.14	0.00	327	0	126	36	161
10	168	35.32	0.000	7.730	0.00	0.164	2.72	0.85	1.00	0.0	4.48	12.19	0.00	942	0	366	216	582
9	150	34.53	0.000	9.973	0.00	0.158	2.74	0.85	1.00	0.0	5.76	15.79	0.00	1252	0	464	355	819
8	130	33.54	0.000	9.973	0.00	0.158	2.74	0.85	1.00	0.0	5.76	15.79	0.00	1318	0	450	470	921
7	110	32.41	0.000	9.973	0.00	0.158	2.74	0.85	1.00	0.0	5.76	15.79	0.00	1318	0	435	455	890
6	90	31.11	0.000	9.973	0.00	0.158	2.74	0.85	1.00	0.0	5.76	15.79	0.00	1330	0	418	485	903
5	70	29.56	0.000	9.436	0.00	0.150	2.77	0.85	1.00	0.0	5.44	15.08	0.00	1200	0	379	526	905
4	50	27.59	0.500	9.765	0.00	0.163	2.72	0.85	1.00	0.0	6.07	16.53	0.00	1359	0	388	505	893
3	30	24.86	0.000	9.436	0.00	0.150	2.77	0.85	1.00	0.0	5.44	15.08	0.00	1203	0	319	455	774
2	13	21.55	0.000	6.770	0.00	0.159	2.74	0.85	1.00	0.0	3.91	10.71	0.00	912	0	196	266	463

ASSET: 98575, PLEASANT DALE  
 CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-I  
 PROJECT: 15440745\_C3\_03

SECTION FORCES

1.2D + 1.0W 330° Gust Response Factor (Gh): 0.85  
 111 mph Wind with No Ice Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q <sub>z</sub> (psf)	A <sub>r</sub> (sf)	A <sub>r</sub> (sf)	Ice A <sub>r</sub> (sf)	e	C <sub>r</sub>	D <sub>r</sub>	D <sub>r</sub>	T <sub>iz</sub> (in)	A <sub>e</sub> (sf)	EPA <sub>a</sub> (sf)	EPA <sub>ai</sub> (sf)	Wt (lb)	Ice Wt (lb)	F <sub>st</sub> (lb)	F <sub>a</sub> (lb)	Force (lb)	
1	3	21.55	4.611	1.962	0.00	0.614	1.80	0.85	1.00	0.0	5.40	9.69	0.00	616	0	178	52	229	
														<b>Totals</b>	<b>11,776</b>	<b>0</b>			<b>7,538</b>

1.2D + 1.0Di + 1.0Wi Normal Gust Response Factor (Gh): 0.85  
 51 mph Wind with 1.14" Radial Ice Wind Importance Factor (Iw): 1.00 Ice Dead Load Factor: 1.00

Section #	Elev (ft)	Q <sub>z</sub> (psf)	A <sub>r</sub> (sf)	A <sub>r</sub> (sf)	Ice A <sub>r</sub> (sf)	e	C <sub>r</sub>	D <sub>r</sub>	D <sub>r</sub>	T <sub>iz</sub> (in)	A <sub>e</sub> (sf)	EPA <sub>a</sub> (sf)	EPA <sub>ai</sub> (sf)	Wt (lb)	Ice Wt (lb)	F <sub>st</sub> (lb)	F <sub>a</sub> (lb)	Force (lb)	
11	178	7.54	0.000	7.473	4.84	0.441	1.99	1.00	1.00	1.3	4.92	9.79	4.84	572	245	63	11	73	
10	168	7.46	0.000	23.141	15.41	0.458	1.96	1.00	1.00	1.3	15.44	30.27	15.41	1839	896	192	69	261	
9	150	7.29	0.000	29.344	19.37	0.436	2.00	1.00	1.00	1.3	19.25	38.46	19.37	2544	1292	238	152	390	
8	130	7.08	0.000	29.069	19.10	0.432	2.00	1.00	1.00	1.3	19.02	38.12	19.10	2890	1571	229	260	489	
7	110	6.84	0.000	28.753	18.78	0.428	2.01	1.00	1.00	1.3	18.76	37.74	18.78	2852	1534	219	250	470	
6	90	6.57	0.000	28.380	18.41	0.423	2.02	1.00	1.00	1.3	18.45	37.28	18.41	2890	1560	208	260	469	
5	70	6.24	0.000	27.386	17.95	0.409	2.05	1.00	1.00	1.2	17.62	36.07	17.95	2774	1575	191	279	471	
4	50	5.83	0.500	27.121	17.36	0.413	2.04	1.00	1.00	1.2	18.01	36.72	17.36	2924	1565	182	260	442	
3	30	5.25	0.000	25.928	16.49	0.389	2.09	1.00	1.00	1.1	16.47	34.36	16.49	2618	1415	153	236	389	
2	13	4.55	0.000	17.138	10.37	0.382	2.10	1.00	1.00	1.0	10.85	22.78	10.37	1784	872	88	133	221	
1	3	4.55	4.611	5.120	3.16	0.833	1.84	1.00	1.00	0.9	9.28	17.11	3.16	818	202	66	12	78	
														<b>Totals</b>	<b>24,504</b>	<b>12,729</b>			<b>3,752</b>

1.2D + 1.0Di + 1.0Wi 60° Gust Response Factor (Gh): 0.85  
 51 mph Wind with 1.14" Radial Ice Wind Importance Factor (Iw): 1.00 Ice Dead Load Factor: 1.00

Section #	Elev (ft)	Q <sub>z</sub> (psf)	A <sub>r</sub> (sf)	A <sub>r</sub> (sf)	Ice A <sub>r</sub> (sf)	e	C <sub>r</sub>	D <sub>r</sub>	D <sub>r</sub>	T <sub>iz</sub> (in)	A <sub>e</sub> (sf)	EPA <sub>a</sub> (sf)	EPA <sub>ai</sub> (sf)	Wt (lb)	Ice Wt (lb)	F <sub>st</sub> (lb)	F <sub>a</sub> (lb)	Force (lb)	
11	178	7.54	0.000	7.473	4.84	0.441	1.99	0.80	1.00	1.3	4.92	9.79	4.84	572	245	63	11	73	
10	168	7.46	0.000	23.141	15.41	0.458	1.96	0.80	1.00	1.3	15.44	30.27	15.41	1839	896	192	69	261	
9	150	7.29	0.000	29.344	19.37	0.436	2.00	0.80	1.00	1.3	19.25	38.46	19.37	2544	1292	238	152	390	
8	130	7.08	0.000	29.069	19.10	0.432	2.00	0.80	1.00	1.3	19.02	38.12	19.10	2890	1571	229	260	489	
7	110	6.84	0.000	28.753	18.78	0.428	2.01	0.80	1.00	1.3	18.76	37.74	18.78	2852	1534	219	250	470	
6	90	6.57	0.000	28.380	18.41	0.423	2.02	0.80	1.00	1.3	18.45	37.28	18.41	2890	1560	208	260	469	
5	70	6.24	0.000	27.386	17.95	0.409	2.05	0.80	1.00	1.2	17.62	36.07	17.95	2774	1575	191	279	471	
4	50	5.83	0.500	27.121	17.36	0.413	2.04	0.80	1.00	1.2	17.91	36.52	17.36	2924	1565	181	260	441	
3	30	5.25	0.000	25.928	16.49	0.389	2.09	0.80	1.00	1.1	16.47	34.36	16.49	2618	1415	153	236	389	
2	13	4.55	0.000	17.138	10.37	0.382	2.10	0.80	1.00	1.0	10.85	22.78	10.37	1784	872	88	133	221	
1	3	4.55	4.611	5.120	3.16	0.833	1.84	0.80	1.00	0.9	8.36	15.41	3.16	818	202	60	12	72	
														<b>Totals</b>	<b>24,504</b>	<b>12,729</b>			<b>3,744</b>

1.2D + 1.0Di + 1.0Wi 90° Gust Response Factor (Gh): 0.85  
 51 mph Wind with 1.14" Radial Ice Wind Importance Factor (Iw): 1.00 Ice Dead Load Factor: 1.00

Section #	Elev (ft)	Q <sub>z</sub> (psf)	A <sub>r</sub> (sf)	A <sub>r</sub> (sf)	Ice A <sub>r</sub> (sf)	e	C <sub>r</sub>	D <sub>r</sub>	D <sub>r</sub>	T <sub>iz</sub> (in)	A <sub>e</sub> (sf)	EPA <sub>a</sub> (sf)	EPA <sub>ai</sub> (sf)	Wt (lb)	Ice Wt (lb)	F <sub>st</sub> (lb)	F <sub>a</sub> (lb)	Force (lb)	
11	178	7.54	0.000	7.473	4.84	0.441	1.99	0.85	1.00	1.3	4.92	9.79	4.84	572	245	63	11	73	
10	168	7.46	0.000	23.141	15.41	0.458	1.96	0.85	1.00	1.3	15.44	30.27	15.41	1839	896	192	69	261	
9	150	7.29	0.000	29.344	19.37	0.436	2.00	0.85	1.00	1.3	19.25	38.46	19.37	2544	1292	238	152	390	
8	130	7.08	0.000	29.069	19.10	0.432	2.00	0.85	1.00	1.3	19.02	38.12	19.10	2890	1571	229	260	489	
7	110	6.84	0.000	28.753	18.78	0.428	2.01	0.85	1.00	1.3	18.76	37.74	18.78	2852	1534	219	250	470	
6	90	6.57	0.000	28.380	18.41	0.423	2.02	0.85	1.00	1.3	18.45	37.28	18.41	2890	1560	208	260	469	
5	70	6.24	0.000	27.386	17.95	0.409	2.05	0.85	1.00	1.2	17.62	36.07	17.95	2774	1575	191	279	471	
4	50	5.83	0.500	27.121	17.36	0.413	2.04	0.85	1.00	1.2	17.94	36.57	17.36	2924	1565	181	260	441	
3	30	5.25	0.000	25.928	16.49	0.389	2.09	0.85	1.00	1.1	16.47	34.36	16.49	2618	1415	153	236	389	
2	13	4.55	0.000	17.138	10.37	0.382	2.10	0.85	1.00	1.0	10.85	22.78	10.37	1784	872	88	133	221	
1	3	4.55	4.611	5.120	3.16	0.833	1.84	0.85	1.00	0.9	8.59	15.84	3.16	818	202	61	12	73	
														<b>Totals</b>	<b>24,504</b>	<b>12,729</b>			<b>3,746</b>

1.2D + 1.0Di + 1.0Wi 120° Gust Response Factor (Gh): 0.85  
 51 mph Wind with 1.14" Radial Ice Wind Importance Factor (Iw): 1.00 Ice Dead Load Factor: 1.00

Section #	Elev (ft)	Q <sub>z</sub> (psf)	A <sub>r</sub> (sf)	A <sub>r</sub> (sf)	Ice A <sub>r</sub> (sf)	e	C <sub>r</sub>	D <sub>r</sub>	D <sub>r</sub>	T <sub>iz</sub> (in)	A <sub>e</sub> (sf)	EPA <sub>a</sub> (sf)	EPA <sub>ai</sub> (sf)	Wt (lb)	Ice Wt (lb)	F <sub>st</sub> (lb)	F <sub>a</sub> (lb)	Force (lb)	
11	178	7.54	0.000	7.473	4.84	0.441	1.99	1.00	1.00	1.3	4.92	9.79	4.84	572	245	63	11	73	
10	168	7.46	0.000	23.141	15.41	0.458	1.96	1.00	1.00	1.3	15.44	30.27	15.41	1839	896	192	69	261	
9	150	7.29	0.000	29.344	19.37	0.436	2.00	1.00	1.00	1.3	19.25	38.46	19.37	2544	1292	238	152	390	
8	130	7.08	0.000	29.069	19.10	0.432	2.00	1.00	1.00	1.3	19.02	38.12	19.10	2890	1571	229	260	489	
7	110	6.84	0.000	28.753	18.78	0.428	2.01	1.00	1.00	1.3	18.76	37.74	18.78	2852	1534	219	250	470	
6	90	6.57	0.000	28.380	18.41	0.423	2.02	1.00	1.00	1.3	18.45	37.28	18.41	2890	1560	208	260	469	
5	70	6.24	0.000	27.386	17.95	0.409	2.05	1.00	1.00	1.2	17.62	36.07	17.95	2774	1575	191	279	471	
4	50	5.83	0.500	27.121	17.36	0.413	2.04	1.00	1.00	1.2	18.01	36.72	17.36	2924	1565	182	260	442	
3	30	5.25	0.000	25.928	16.49	0.389	2.09	1.00	1.00	1.1	16.47	34.36	16.49	2618	1415	153	236	389	
2	13	4.55	0.000	17.138	10.37	0.382	2.10	1.00	1.00	1.0	10.85	22.78	10.37	1784	872	88	133	221	
1	3	4.55	4.611	5.120	3.16	0.833	1.84	1.00	1.00	0.9	9.28	17.11	3.16	818	202	66	12	78	
														<b>Totals</b>	<b>24,504</b>	<b>12,729</b>			<b>3,752</b>

**SECTION FORCES**

1.2D + 1.0Di + 1.0Wi 180°  
 51 mph Wind with 1.14" Radial Ice

Gust Response Factor (Gh): 0.85  
 Wind Importance Factor (Iw): 1.00  
 Ice Dead Load Factor: 1.00

Section #	Elev (ft)	Q <sub>z</sub> (psf)	A <sub>r</sub> (sf)	A <sub>r</sub> (sf)	Ice A <sub>r</sub> (sf)	e	C <sub>r</sub>	D <sub>r</sub>	D <sub>r</sub>	T <sub>iz</sub> (in)	A <sub>e</sub> (sf)	EPA <sub>a</sub> (sf)	EPA <sub>ai</sub> (sf)	Wt (lb)	Ice Wt (lb)	F <sub>st</sub> (lb)	F <sub>a</sub> (lb)	Force (lb)
11	178	7.54	0.000	7.473	4.84	0.441	1.99	0.80	1.00	1.3	4.92	9.79	4.84	572	245	63	11	73
10	168	7.46	0.000	23.141	15.41	0.458	1.96	0.80	1.00	1.3	15.44	30.27	15.41	1839	896	192	69	261
9	150	7.29	0.000	29.344	19.37	0.436	2.00	0.80	1.00	1.3	19.25	38.46	19.37	2544	1292	238	152	390
8	130	7.08	0.000	29.069	19.10	0.432	2.00	0.80	1.00	1.3	19.02	38.12	19.10	2890	1571	229	260	489
7	110	6.84	0.000	28.753	18.78	0.428	2.01	0.80	1.00	1.3	18.76	37.74	18.78	2852	1534	219	250	470
6	90	6.57	0.000	28.380	18.41	0.423	2.02	0.80	1.00	1.3	18.45	37.28	18.41	2890	1560	208	260	469
5	70	6.24	0.000	27.386	17.95	0.409	2.05	0.80	1.00	1.2	17.62	36.07	17.95	2774	1575	191	279	471
4	50	5.83	0.500	27.121	17.36	0.413	2.04	0.80	1.00	1.2	17.91	36.52	17.36	2924	1565	181	260	441
3	30	5.25	0.000	25.928	16.49	0.389	2.09	0.80	1.00	1.1	16.47	34.36	16.49	2618	1415	153	236	389
2	13	4.55	0.000	17.138	10.37	0.382	2.10	0.80	1.00	1.0	10.85	22.78	10.37	1784	872	88	133	221
1	3	4.55	4.611	5.120	3.16	0.833	1.84	0.80	1.00	0.9	8.36	15.41	3.16	818	202	60	12	72
<b>Totals</b>														<b>24,504</b>	<b>12,729</b>			<b>3,744</b>

1.2D + 1.0Di + 1.0Wi 210°  
 51 mph Wind with 1.14" Radial Ice

Gust Response Factor (Gh): 0.85  
 Wind Importance Factor (Iw): 1.00  
 Ice Dead Load Factor: 1.00

Section #	Elev (ft)	Q <sub>z</sub> (psf)	A <sub>r</sub> (sf)	A <sub>r</sub> (sf)	Ice A <sub>r</sub> (sf)	e	C <sub>r</sub>	D <sub>r</sub>	D <sub>r</sub>	T <sub>iz</sub> (in)	A <sub>e</sub> (sf)	EPA <sub>a</sub> (sf)	EPA <sub>ai</sub> (sf)	Wt (lb)	Ice Wt (lb)	F <sub>st</sub> (lb)	F <sub>a</sub> (lb)	Force (lb)
11	178	7.54	0.000	7.473	4.84	0.441	1.99	0.85	1.00	1.3	4.92	9.79	4.84	572	245	63	11	73
10	168	7.46	0.000	23.141	15.41	0.458	1.96	0.85	1.00	1.3	15.44	30.27	15.41	1839	896	192	69	261
9	150	7.29	0.000	29.344	19.37	0.436	2.00	0.85	1.00	1.3	19.25	38.46	19.37	2544	1292	238	152	390
8	130	7.08	0.000	29.069	19.10	0.432	2.00	0.85	1.00	1.3	19.02	38.12	19.10	2890	1571	229	260	489
7	110	6.84	0.000	28.753	18.78	0.428	2.01	0.85	1.00	1.3	18.76	37.74	18.78	2852	1534	219	250	470
6	90	6.57	0.000	28.380	18.41	0.423	2.02	0.85	1.00	1.3	18.45	37.28	18.41	2890	1560	208	260	469
5	70	6.24	0.000	27.386	17.95	0.409	2.05	0.85	1.00	1.2	17.62	36.07	17.95	2774	1575	191	279	471
4	50	5.83	0.500	27.121	17.36	0.413	2.04	0.85	1.00	1.2	17.94	36.57	17.36	2924	1565	181	260	441
3	30	5.25	0.000	25.928	16.49	0.389	2.09	0.85	1.00	1.1	16.47	34.36	16.49	2618	1415	153	236	389
2	13	4.55	0.000	17.138	10.37	0.382	2.10	0.85	1.00	1.0	10.85	22.78	10.37	1784	872	88	133	221
1	3	4.55	4.611	5.120	3.16	0.833	1.84	0.85	1.00	0.9	8.59	15.84	3.16	818	202	61	12	73
<b>Totals</b>														<b>24,504</b>	<b>12,729</b>			<b>3,746</b>

1.2D + 1.0Di + 1.0Wi 240°  
 51 mph Wind with 1.14" Radial Ice

Gust Response Factor (Gh): 0.85  
 Wind Importance Factor (Iw): 1.00  
 Ice Dead Load Factor: 1.00

Section #	Elev (ft)	Q <sub>z</sub> (psf)	A <sub>r</sub> (sf)	A <sub>r</sub> (sf)	Ice A <sub>r</sub> (sf)	e	C <sub>r</sub>	D <sub>r</sub>	D <sub>r</sub>	T <sub>iz</sub> (in)	A <sub>e</sub> (sf)	EPA <sub>a</sub> (sf)	EPA <sub>ai</sub> (sf)	Wt (lb)	Ice Wt (lb)	F <sub>st</sub> (lb)	F <sub>a</sub> (lb)	Force (lb)
11	178	7.54	0.000	7.473	4.84	0.441	1.99	1.00	1.00	1.3	4.92	9.79	4.84	572	245	63	11	73
10	168	7.46	0.000	23.141	15.41	0.458	1.96	1.00	1.00	1.3	15.44	30.27	15.41	1839	896	192	69	261
9	150	7.29	0.000	29.344	19.37	0.436	2.00	1.00	1.00	1.3	19.25	38.46	19.37	2544	1292	238	152	390
8	130	7.08	0.000	29.069	19.10	0.432	2.00	1.00	1.00	1.3	19.02	38.12	19.10	2890	1571	229	260	489
7	110	6.84	0.000	28.753	18.78	0.428	2.01	1.00	1.00	1.3	18.76	37.74	18.78	2852	1534	219	250	470
6	90	6.57	0.000	28.380	18.41	0.423	2.02	1.00	1.00	1.3	18.45	37.28	18.41	2890	1560	208	260	469
5	70	6.24	0.000	27.386	17.95	0.409	2.05	1.00	1.00	1.2	17.62	36.07	17.95	2774	1575	191	279	471
4	50	5.83	0.500	27.121	17.36	0.413	2.04	1.00	1.00	1.2	18.01	36.72	17.36	2924	1565	182	260	442
3	30	5.25	0.000	25.928	16.49	0.389	2.09	1.00	1.00	1.1	16.47	34.36	16.49	2618	1415	153	236	389
2	13	4.55	0.000	17.138	10.37	0.382	2.10	1.00	1.00	1.0	10.85	22.78	10.37	1784	872	88	133	221
1	3	4.55	4.611	5.120	3.16	0.833	1.84	1.00	1.00	0.9	9.28	17.11	3.16	818	202	66	12	78
<b>Totals</b>														<b>24,504</b>	<b>12,729</b>			<b>3,752</b>

1.2D + 1.0Di + 1.0Wi 300°  
 51 mph Wind with 1.14" Radial Ice

Gust Response Factor (Gh): 0.85  
 Wind Importance Factor (Iw): 1.00  
 Ice Dead Load Factor: 1.00

Section #	Elev (ft)	Q <sub>z</sub> (psf)	A <sub>r</sub> (sf)	A <sub>r</sub> (sf)	Ice A <sub>r</sub> (sf)	e	C <sub>r</sub>	D <sub>r</sub>	D <sub>r</sub>	T <sub>iz</sub> (in)	A <sub>e</sub> (sf)	EPA <sub>a</sub> (sf)	EPA <sub>ai</sub> (sf)	Wt (lb)	Ice Wt (lb)	F <sub>st</sub> (lb)	F <sub>a</sub> (lb)	Force (lb)
11	178	7.54	0.000	7.473	4.84	0.441	1.99	0.80	1.00	1.3	4.92	9.79	4.84	572	245	63	11	73
10	168	7.46	0.000	23.141	15.41	0.458	1.96	0.80	1.00	1.3	15.44	30.27	15.41	1839	896	192	69	261
9	150	7.29	0.000	29.344	19.37	0.436	2.00	0.80	1.00	1.3	19.25	38.46	19.37	2544	1292	238	152	390
8	130	7.08	0.000	29.069	19.10	0.432	2.00	0.80	1.00	1.3	19.02	38.12	19.10	2890	1571	229	260	489
7	110	6.84	0.000	28.753	18.78	0.428	2.01	0.80	1.00	1.3	18.76	37.74	18.78	2852	1534	219	250	470
6	90	6.57	0.000	28.380	18.41	0.423	2.02	0.80	1.00	1.3	18.45	37.28	18.41	2890	1560	208	260	469
5	70	6.24	0.000	27.386	17.95	0.409	2.05	0.80	1.00	1.2	17.62	36.07	17.95	2774	1575	191	279	471
4	50	5.83	0.500	27.121	17.36	0.413	2.04	0.80	1.00	1.2	17.91	36.52	17.36	2924	1565	181	260	441
3	30	5.25	0.000	25.928	16.49	0.389	2.09	0.80	1.00	1.1	16.47	34.36	16.49	2618	1415	153	236	389
2	13	4.55	0.000	17.138	10.37	0.382	2.10	0.80	1.00	1.0	10.85	22.78	10.37	1784	872	88	133	221
1	3	4.55	4.611	5.120	3.16	0.833	1.84	0.80	1.00	0.9	8.36	15.41	3.16	818	202	60	12	72
<b>Totals</b>														<b>24,504</b>	<b>12,729</b>			<b>3,744</b>

1.2D + 1.0Di + 1.0Wi 330°  
 51 mph Wind with 1.14" Radial Ice

Gust Response Factor (Gh): 0.85  
 Wind Importance Factor (Iw): 1.00  
 Ice Dead Load Factor: 1.00

Section #	Elev (ft)	Q <sub>z</sub> (psf)	A <sub>r</sub> (sf)	A <sub>r</sub> (sf)	Ice A <sub>r</sub> (sf)	e	C <sub>r</sub>	D <sub>r</sub>	D <sub>r</sub>	T <sub>iz</sub> (in)	A <sub>e</sub> (sf)	EPA <sub>a</sub> (sf)	EPA <sub>ai</sub> (sf)	Wt (lb)	Ice Wt (lb)	F <sub>st</sub> (lb)	F <sub>a</sub> (lb)	Force (lb)
11	178	7.54	0.000	7.473	4.84	0.441	1.99	0.85	1.00	1.3	4.92	9.79	4.84	572	245	63	11	73
10	168	7.46	0.000	23.141	15.41	0.458	1.96	0.85	1.00	1.3	15.44	30.27	15.41	1839	896	192	69	261
9	150	7.29	0.000	29.344	19.37	0.436	2.00	0.85	1.00	1.3	19.25	38.46	19.37	2544	1292	238	152	390
8	130	7.08	0.000	29.069	19.10	0.432	2.00	0.85	1.00	1.3	19.02	38.12	19.10	2890	1571	229	260	489
7	110	6.84	0.000	28.753	18.78	0.428	2.01	0.85	1.00	1.3	18.76	37.74	18.78	2852	1534	219	250	470

ASSET: 98575, PLEASANT DALE  
 CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-I  
 PROJECT: 15440745\_C3\_03

**SECTION FORCES**

1.2D + 1.0Di + 1.0Wi 330°

Gust Response Factor (Gh): 0.85

51 mph Wind with 1.14" Radial Ice

Wind Importance Factor (Iw): 1.00

Ice Dead Load Factor: 1.00

Section #	Elev (ft)	Q <sub>Z</sub> (psf)	A <sub>r</sub> (sf)	A <sub>r</sub> (sf)	Ice A <sub>r</sub> (sf)	e	C <sub>r</sub>	D <sub>r</sub>	D <sub>r</sub>	T <sub>lz</sub> (in)	A <sub>e</sub> (sf)	EPA <sub>a</sub> (sf)	EPA <sub>ai</sub> (sf)	Wt (lb)	Ice Wt (lb)	F <sub>st</sub> (lb)	F <sub>a</sub> (lb)	Force (lb)
6	90	6.57	0.000	28.380	18.41	0.423	2.02	0.85	1.00	1.3	18.45	37.28	18.41	2890	1560	208	260	469
5	70	6.24	0.000	27.386	17.95	0.409	2.05	0.85	1.00	1.2	17.62	36.07	17.95	2774	1575	191	279	471
4	50	5.83	0.500	27.121	17.36	0.413	2.04	0.85	1.00	1.2	17.94	36.57	17.36	2924	1565	181	260	441
3	30	5.25	0.000	25.928	16.49	0.389	2.09	0.85	1.00	1.1	16.47	34.36	16.49	2618	1415	153	236	389
2	13	4.55	0.000	17.138	10.37	0.382	2.10	0.85	1.00	1.0	10.85	22.78	10.37	1784	872	88	133	221
1	3	4.55	4.611	5.120	3.16	0.833	1.84	0.85	1.00	0.9	8.59	15.84	3.16	818	202	61	12	73
<b>Totals</b>														<b>24,504</b>	<b>12,729</b>			<b>3,746</b>

1.0D + 1.0W Service Normal

Gust Response Factor (Gh): 0.85

60 mph Wind with No Ice

Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q <sub>Z</sub> (psf)	A <sub>r</sub> (sf)	A <sub>r</sub> (sf)	Ice A <sub>r</sub> (sf)	e	C <sub>r</sub>	D <sub>r</sub>	D <sub>r</sub>	T <sub>lz</sub> (in)	A <sub>e</sub> (sf)	EPA <sub>a</sub> (sf)	EPA <sub>ai</sub> (sf)	Wt (lb)	Ice Wt (lb)	F <sub>st</sub> (lb)	F <sub>a</sub> (lb)	Force (lb)
11	178	10.44	0.000	2.637	0.00	0.166	2.71	1.00	1.00	0.0	1.53	4.14	0.00	272	0	37	10	47
10	168	10.32	0.000	7.730	0.00	0.164	2.72	1.00	1.00	0.0	4.48	12.19	0.00	785	0	107	63	170
9	150	10.09	0.000	9.973	0.00	0.158	2.74	1.00	1.00	0.0	5.76	15.79	0.00	1043	0	135	104	239
8	130	9.80	0.000	9.973	0.00	0.158	2.74	1.00	1.00	0.0	5.76	15.79	0.00	1099	0	132	137	269
7	110	9.47	0.000	9.973	0.00	0.158	2.74	1.00	1.00	0.0	5.76	15.79	0.00	1099	0	127	133	260
6	90	9.09	0.000	9.973	0.00	0.158	2.74	1.00	1.00	0.0	5.76	15.79	0.00	1108	0	122	142	264
5	70	8.64	0.000	9.436	0.00	0.150	2.77	1.00	1.00	0.0	5.44	15.08	0.00	1000	0	111	154	264
4	50	8.06	0.500	9.765	0.00	0.163	2.72	1.00	1.00	0.0	6.14	16.74	0.00	1133	0	115	148	262
3	30	7.26	0.000	9.436	0.00	0.150	2.77	1.00	1.00	0.0	5.44	15.08	0.00	1002	0	93	133	226
2	13	6.30	0.000	6.770	0.00	0.159	2.74	1.00	1.00	0.0	3.91	10.71	0.00	760	0	57	78	135
1	3	6.30	4.611	1.962	0.00	0.614	1.80	1.00	1.00	0.0	6.09	10.93	0.00	513	0	59	15	74
<b>Totals</b>														<b>9,813</b>	<b>0</b>			<b>2,211</b>

1.0D + 1.0W Service 60°

Gust Response Factor (Gh): 0.85

60 mph Wind with No Ice

Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q <sub>Z</sub> (psf)	A <sub>r</sub> (sf)	A <sub>r</sub> (sf)	Ice A <sub>r</sub> (sf)	e	C <sub>r</sub>	D <sub>r</sub>	D <sub>r</sub>	T <sub>lz</sub> (in)	A <sub>e</sub> (sf)	EPA <sub>a</sub> (sf)	EPA <sub>ai</sub> (sf)	Wt (lb)	Ice Wt (lb)	F <sub>st</sub> (lb)	F <sub>a</sub> (lb)	Force (lb)
11	178	10.44	0.000	2.637	0.00	0.166	2.71	0.80	1.00	0.0	1.53	4.14	0.00	272	0	37	10	47
10	168	10.32	0.000	7.730	0.00	0.164	2.72	0.80	1.00	0.0	4.48	12.19	0.00	785	0	107	63	170
9	150	10.09	0.000	9.973	0.00	0.158	2.74	0.80	1.00	0.0	5.76	15.79	0.00	1043	0	135	104	239
8	130	9.80	0.000	9.973	0.00	0.158	2.74	0.80	1.00	0.0	5.76	15.79	0.00	1099	0	132	137	269
7	110	9.47	0.000	9.973	0.00	0.158	2.74	0.80	1.00	0.0	5.76	15.79	0.00	1099	0	127	133	260
6	90	9.09	0.000	9.973	0.00	0.158	2.74	0.80	1.00	0.0	5.76	15.79	0.00	1108	0	122	142	264
5	70	8.64	0.000	9.436	0.00	0.150	2.77	0.80	1.00	0.0	5.44	15.08	0.00	1000	0	111	154	264
4	50	8.06	0.500	9.765	0.00	0.163	2.72	0.80	1.00	0.0	6.04	16.46	0.00	1133	0	113	148	260
3	30	7.26	0.000	9.436	0.00	0.150	2.77	0.80	1.00	0.0	5.44	15.08	0.00	1002	0	93	133	226
2	13	6.30	0.000	6.770	0.00	0.159	2.74	0.80	1.00	0.0	3.91	10.71	0.00	760	0	57	78	135
1	3	6.30	4.611	1.962	0.00	0.614	1.80	0.80	1.00	0.0	5.17	9.28	0.00	513	0	50	15	65
<b>Totals</b>														<b>9,813</b>	<b>0</b>			<b>2,200</b>

1.0D + 1.0W Service 90°

Gust Response Factor (Gh): 0.85

60 mph Wind with No Ice

Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q <sub>Z</sub> (psf)	A <sub>r</sub> (sf)	A <sub>r</sub> (sf)	Ice A <sub>r</sub> (sf)	e	C <sub>r</sub>	D <sub>r</sub>	D <sub>r</sub>	T <sub>lz</sub> (in)	A <sub>e</sub> (sf)	EPA <sub>a</sub> (sf)	EPA <sub>ai</sub> (sf)	Wt (lb)	Ice Wt (lb)	F <sub>st</sub> (lb)	F <sub>a</sub> (lb)	Force (lb)
11	178	10.44	0.000	2.637	0.00	0.166	2.71	0.85	1.00	0.0	1.53	4.14	0.00	272	0	37	10	47
10	168	10.32	0.000	7.730	0.00	0.164	2.72	0.85	1.00	0.0	4.48	12.19	0.00	785	0	107	63	170
9	150	10.09	0.000	9.973	0.00	0.158	2.74	0.85	1.00	0.0	5.76	15.79	0.00	1043	0	135	104	239
8	130	9.80	0.000	9.973	0.00	0.158	2.74	0.85	1.00	0.0	5.76	15.79	0.00	1099	0	132	137	269
7	110	9.47	0.000	9.973	0.00	0.158	2.74	0.85	1.00	0.0	5.76	15.79	0.00	1099	0	127	133	260
6	90	9.09	0.000	9.973	0.00	0.158	2.74	0.85	1.00	0.0	5.76	15.79	0.00	1108	0	122	142	264
5	70	8.64	0.000	9.436	0.00	0.150	2.77	0.85	1.00	0.0	5.44	15.08	0.00	1000	0	111	154	264
4	50	8.06	0.500	9.765	0.00	0.163	2.72	0.85	1.00	0.0	6.07	16.53	0.00	1133	0	113	148	261
3	30	7.26	0.000	9.436	0.00	0.150	2.77	0.85	1.00	0.0	5.44	15.08	0.00	1002	0	93	133	226
2	13	6.30	0.000	6.770	0.00	0.159	2.74	0.85	1.00	0.0	3.91	10.71	0.00	760	0	57	78	135
1	3	6.30	4.611	1.962	0.00	0.614	1.80	0.85	1.00	0.0	5.40	9.69	0.00	513	0	52	15	67
<b>Totals</b>														<b>9,813</b>	<b>0</b>			<b>2,203</b>

1.0D + 1.0W Service 120°

Gust Response Factor (Gh): 0.85

60 mph Wind with No Ice

Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q <sub>Z</sub> (psf)	A <sub>r</sub> (sf)	A <sub>r</sub> (sf)	Ice A <sub>r</sub> (sf)	e	C <sub>r</sub>	D <sub>r</sub>	D <sub>r</sub>	T <sub>lz</sub> (in)	A <sub>e</sub> (sf)	EPA <sub>a</sub> (sf)	EPA <sub>ai</sub> (sf)	Wt (lb)	Ice Wt (lb)	F <sub>st</sub> (lb)	F <sub>a</sub> (lb)	Force (lb)
11	178	10.44	0.000	2.637	0.00	0.166	2.71	1.00	1.00	0.0	1.53	4.14	0.00	272	0	37	10	47
10	168	10.32	0.000	7.730	0.00	0.164	2.72	1.00	1.00	0.0	4.48	12.19	0.00	785	0	107	63	170
9	150	10.09	0.000	9.973	0.00	0.158	2.74	1.00	1.00	0.0	5.76	15.79	0.00	1043	0	135	104	239
8	130	9.80	0.000	9.973	0.00	0.158	2.74	1.00	1.00	0.0	5.76	15.79	0.00	1099	0	132	137	269
7	110	9.47	0.000	9.973	0.00	0.158	2.74	1.00	1.00	0.0	5.76	15.79	0.00	1099	0	127	133	260
6	90	9.09	0.000	9.973	0.00	0.158	2.74	1.00	1.00	0.0	5.76	15.79	0.00	1108	0	122	142	264
5	70	8.64	0.000	9.436	0.00	0.150	2.77	1.00	1.00	0.0	5.44	15.08	0.00	1000	0	111	154	264
4	50	8.06	0.500	9.765	0.00	0.163	2.72	1.00	1.00	0.0	6.14	16.74	0.00	1133	0	115	148	262
3	30	7.26	0.000	9.436	0.00	0.150	2.77	1.00	1.00	0.0	5.44	15.08	0.00	1002	0	93	133	226
2	13	6.30	0.000	6.770	0.00	0.159	2.74	1.00	1.00	0.0	3.91	10.71	0.00	760	0	57	78	135

ASSET: 98575, PLEASANT DALE  
 CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-I  
 PROJECT: 15440745\_C3\_03

**SECTION FORCES**

1.0D + 1.0W Service 120°  
 60 mph Wind with No Ice

Gust Response Factor (Gh): 0.85  
 Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q <sub>z</sub> (psf)	A <sub>r</sub> (sf)	A <sub>r</sub> (sf)	Ice A <sub>r</sub> (sf)	e	C <sub>r</sub>	D <sub>r</sub>	D <sub>r</sub>	T <sub>lz</sub> (in)	A <sub>e</sub> (sf)	EPA <sub>a</sub> (sf)	EPA <sub>ai</sub> (sf)	Wt (lb)	Ice Wt (lb)	F <sub>st</sub> (lb)	F <sub>a</sub> (lb)	Force (lb)	
1	3	6.30	4.611	1.962	0.00	0.614	1.80	1.00	1.00	0.0	6.09	10.93	0.00	513	0	59	15	74	
														<b>Totals</b>	<b>9,813</b>	<b>0</b>			<b>2,211</b>

1.0D + 1.0W Service 180°  
 60 mph Wind with No Ice

Gust Response Factor (Gh): 0.85  
 Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q <sub>z</sub> (psf)	A <sub>r</sub> (sf)	A <sub>r</sub> (sf)	Ice A <sub>r</sub> (sf)	e	C <sub>r</sub>	D <sub>r</sub>	D <sub>r</sub>	T <sub>lz</sub> (in)	A <sub>e</sub> (sf)	EPA <sub>a</sub> (sf)	EPA <sub>ai</sub> (sf)	Wt (lb)	Ice Wt (lb)	F <sub>st</sub> (lb)	F <sub>a</sub> (lb)	Force (lb)	
11	178	10.44	0.000	2.637	0.00	0.166	2.71	0.80	1.00	0.0	1.53	4.14	0.00	272	0	37	10	47	
10	168	10.32	0.000	7.730	0.00	0.164	2.72	0.80	1.00	0.0	4.48	12.19	0.00	785	0	107	63	170	
9	150	10.09	0.000	9.973	0.00	0.158	2.74	0.80	1.00	0.0	5.76	15.79	0.00	1043	0	135	104	239	
8	130	9.80	0.000	9.973	0.00	0.158	2.74	0.80	1.00	0.0	5.76	15.79	0.00	1099	0	132	137	269	
7	110	9.47	0.000	9.973	0.00	0.158	2.74	0.80	1.00	0.0	5.76	15.79	0.00	1099	0	127	133	260	
6	90	9.09	0.000	9.973	0.00	0.158	2.74	0.80	1.00	0.0	5.76	15.79	0.00	1108	0	122	142	264	
5	70	8.64	0.000	9.436	0.00	0.150	2.77	0.80	1.00	0.0	5.44	15.08	0.00	1000	0	111	154	264	
4	50	8.06	0.500	9.765	0.00	0.163	2.72	0.80	1.00	0.0	6.04	16.46	0.00	1133	0	113	148	260	
3	30	7.26	0.000	9.436	0.00	0.150	2.77	0.80	1.00	0.0	5.44	15.08	0.00	1002	0	93	133	226	
2	13	6.30	0.000	6.770	0.00	0.159	2.74	0.80	1.00	0.0	3.91	10.71	0.00	760	0	57	78	135	
1	3	6.30	4.611	1.962	0.00	0.614	1.80	0.80	1.00	0.0	5.17	9.28	0.00	513	0	50	15	65	
														<b>Totals</b>	<b>9,813</b>	<b>0</b>			<b>2,200</b>

1.0D + 1.0W Service 210°  
 60 mph Wind with No Ice

Gust Response Factor (Gh): 0.85  
 Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q <sub>z</sub> (psf)	A <sub>r</sub> (sf)	A <sub>r</sub> (sf)	Ice A <sub>r</sub> (sf)	e	C <sub>r</sub>	D <sub>r</sub>	D <sub>r</sub>	T <sub>lz</sub> (in)	A <sub>e</sub> (sf)	EPA <sub>a</sub> (sf)	EPA <sub>ai</sub> (sf)	Wt (lb)	Ice Wt (lb)	F <sub>st</sub> (lb)	F <sub>a</sub> (lb)	Force (lb)	
11	178	10.44	0.000	2.637	0.00	0.166	2.71	0.85	1.00	0.0	1.53	4.14	0.00	272	0	37	10	47	
10	168	10.32	0.000	7.730	0.00	0.164	2.72	0.85	1.00	0.0	4.48	12.19	0.00	785	0	107	63	170	
9	150	10.09	0.000	9.973	0.00	0.158	2.74	0.85	1.00	0.0	5.76	15.79	0.00	1043	0	135	104	239	
8	130	9.80	0.000	9.973	0.00	0.158	2.74	0.85	1.00	0.0	5.76	15.79	0.00	1099	0	132	137	269	
7	110	9.47	0.000	9.973	0.00	0.158	2.74	0.85	1.00	0.0	5.76	15.79	0.00	1099	0	127	133	260	
6	90	9.09	0.000	9.973	0.00	0.158	2.74	0.85	1.00	0.0	5.76	15.79	0.00	1108	0	122	142	264	
5	70	8.64	0.000	9.436	0.00	0.150	2.77	0.85	1.00	0.0	5.44	15.08	0.00	1000	0	111	154	264	
4	50	8.06	0.500	9.765	0.00	0.163	2.72	0.85	1.00	0.0	6.07	16.53	0.00	1133	0	113	148	261	
3	30	7.26	0.000	9.436	0.00	0.150	2.77	0.85	1.00	0.0	5.44	15.08	0.00	1002	0	93	133	226	
2	13	6.30	0.000	6.770	0.00	0.159	2.74	0.85	1.00	0.0	3.91	10.71	0.00	760	0	57	78	135	
1	3	6.30	4.611	1.962	0.00	0.614	1.80	0.85	1.00	0.0	5.40	9.69	0.00	513	0	52	15	67	
														<b>Totals</b>	<b>9,813</b>	<b>0</b>			<b>2,203</b>

1.0D + 1.0W Service 240°  
 60 mph Wind with No Ice

Gust Response Factor (Gh): 0.85  
 Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q <sub>z</sub> (psf)	A <sub>r</sub> (sf)	A <sub>r</sub> (sf)	Ice A <sub>r</sub> (sf)	e	C <sub>r</sub>	D <sub>r</sub>	D <sub>r</sub>	T <sub>lz</sub> (in)	A <sub>e</sub> (sf)	EPA <sub>a</sub> (sf)	EPA <sub>ai</sub> (sf)	Wt (lb)	Ice Wt (lb)	F <sub>st</sub> (lb)	F <sub>a</sub> (lb)	Force (lb)	
11	178	10.44	0.000	2.637	0.00	0.166	2.71	1.00	1.00	0.0	1.53	4.14	0.00	272	0	37	10	47	
10	168	10.32	0.000	7.730	0.00	0.164	2.72	1.00	1.00	0.0	4.48	12.19	0.00	785	0	107	63	170	
9	150	10.09	0.000	9.973	0.00	0.158	2.74	1.00	1.00	0.0	5.76	15.79	0.00	1043	0	135	104	239	
8	130	9.80	0.000	9.973	0.00	0.158	2.74	1.00	1.00	0.0	5.76	15.79	0.00	1099	0	132	137	269	
7	110	9.47	0.000	9.973	0.00	0.158	2.74	1.00	1.00	0.0	5.76	15.79	0.00	1099	0	127	133	260	
6	90	9.09	0.000	9.973	0.00	0.158	2.74	1.00	1.00	0.0	5.76	15.79	0.00	1108	0	122	142	264	
5	70	8.64	0.000	9.436	0.00	0.150	2.77	1.00	1.00	0.0	5.44	15.08	0.00	1000	0	111	154	264	
4	50	8.06	0.500	9.765	0.00	0.163	2.72	1.00	1.00	0.0	6.14	16.74	0.00	1133	0	115	148	262	
3	30	7.26	0.000	9.436	0.00	0.150	2.77	1.00	1.00	0.0	5.44	15.08	0.00	1002	0	93	133	226	
2	13	6.30	0.000	6.770	0.00	0.159	2.74	1.00	1.00	0.0	3.91	10.71	0.00	760	0	57	78	135	
1	3	6.30	4.611	1.962	0.00	0.614	1.80	1.00	1.00	0.0	6.09	10.93	0.00	513	0	59	15	74	
														<b>Totals</b>	<b>9,813</b>	<b>0</b>			<b>2,211</b>

1.0D + 1.0W Service 300°  
 60 mph Wind with No Ice

Gust Response Factor (Gh): 0.85  
 Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q <sub>z</sub> (psf)	A <sub>r</sub> (sf)	A <sub>r</sub> (sf)	Ice A <sub>r</sub> (sf)	e	C <sub>r</sub>	D <sub>r</sub>	D <sub>r</sub>	T <sub>lz</sub> (in)	A <sub>e</sub> (sf)	EPA <sub>a</sub> (sf)	EPA <sub>ai</sub> (sf)	Wt (lb)	Ice Wt (lb)	F <sub>st</sub> (lb)	F <sub>a</sub> (lb)	Force (lb)	
11	178	10.44	0.000	2.637	0.00	0.166	2.71	0.80	1.00	0.0	1.53	4.14	0.00	272	0	37	10	47	
10	168	10.32	0.000	7.730	0.00	0.164	2.72	0.80	1.00	0.0	4.48	12.19	0.00	785	0	107	63	170	
9	150	10.09	0.000	9.973	0.00	0.158	2.74	0.80	1.00	0.0	5.76	15.79	0.00	1043	0	135	104	239	
8	130	9.80	0.000	9.973	0.00	0.158	2.74	0.80	1.00	0.0	5.76	15.79	0.00	1099	0	132	137	269	
7	110	9.47	0.000	9.973	0.00	0.158	2.74	0.80	1.00	0.0	5.76	15.79	0.00	1099	0	127	133	260	
6	90	9.09	0.000	9.973	0.00	0.158	2.74	0.80	1.00	0.0	5.76	15.79	0.00	1108	0	122	142	264	
5	70	8.64	0.000	9.436	0.00	0.150	2.77	0.80	1.00	0.0	5.44	15.08	0.00	1000	0	111	154	264	
4	50	8.06	0.500	9.765	0.00	0.163	2.72	0.80	1.00	0.0	6.04	16.46	0.00	1133	0	113	148	260	
3	30	7.26	0.000	9.436	0.00	0.150	2.77	0.80	1.00	0.0	5.44	15.08	0.00	1002	0	93	133	226	
2	13	6.30	0.000	6.770	0.00	0.159	2.74	0.80	1.00	0.0	3.91	10.71	0.00	760	0	57	78	135	
1	3	6.30	4.611	1.962	0.00	0.614	1.80	0.80	1.00	0.0	5.17	9.28	0.00	513	0	50	15	65	
														<b>Totals</b>	<b>9,813</b>	<b>0</b>			<b>2,200</b>

ASSET: 98575, PLEASANT DALE  
 CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-I  
 PROJECT: 15440745\_C3\_03

**SECTION FORCES**

1.0D + 1.0W Service 330°  
 60 mph Wind with No Ice

Gust Response Factor (G<sub>h</sub>): 0.85  
 Wind Importance Factor (I<sub>w</sub>): 1.00

Section #	Elev (ft)	Q <sub>z</sub> (psf)	A <sub>r</sub> (sf)	A <sub>r</sub> (sf)	Ice A <sub>r</sub> (sf)	e	C <sub>f</sub>	D <sub>r</sub>	D <sub>r</sub>	T <sub>iz</sub> (in)	A <sub>e</sub> (sf)	EPA <sub>a</sub> (sf)	EPA <sub>ai</sub> (sf)	Wt (lb)	Ice Wt (lb)	F <sub>st</sub> (lb)	F <sub>a</sub> (lb)	Force (lb)
11	178	10.44	0.000	2.637	0.00	0.166	2.71	0.85	1.00	0.0	1.53	4.14	0.00	272	0	37	10	47
10	168	10.32	0.000	7.730	0.00	0.164	2.72	0.85	1.00	0.0	4.48	12.19	0.00	785	0	107	63	170
9	150	10.09	0.000	9.973	0.00	0.158	2.74	0.85	1.00	0.0	5.76	15.79	0.00	1043	0	135	104	239
8	130	9.80	0.000	9.973	0.00	0.158	2.74	0.85	1.00	0.0	5.76	15.79	0.00	1099	0	132	137	269
7	110	9.47	0.000	9.973	0.00	0.158	2.74	0.85	1.00	0.0	5.76	15.79	0.00	1099	0	127	133	260
6	90	9.09	0.000	9.973	0.00	0.158	2.74	0.85	1.00	0.0	5.76	15.79	0.00	1108	0	122	142	264
5	70	8.64	0.000	9.436	0.00	0.150	2.77	0.85	1.00	0.0	5.44	15.08	0.00	1000	0	111	154	264
4	50	8.06	0.500	9.765	0.00	0.163	2.72	0.85	1.00	0.0	6.07	16.53	0.00	1133	0	113	148	261
3	30	7.26	0.000	9.436	0.00	0.150	2.77	0.85	1.00	0.0	5.44	15.08	0.00	1002	0	93	133	226
2	13	6.30	0.000	6.770	0.00	0.159	2.74	0.85	1.00	0.0	3.91	10.71	0.00	760	0	57	78	135
1	3	6.30	4.611	1.962	0.00	0.614	1.80	0.85	1.00	0.0	5.40	9.69	0.00	513	0	52	15	67
<b>Totals</b>														<b>9,813</b>	<b>0</b>	<b>2,203</b>		

ASSET: 98575, PLEASANT DALE  
 CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-I  
 PROJECT: 15440745\_C3\_03

EQUIVALENT LATERAL FORCE METHOD

Long-Period Transition Period ( $T_L$ - Seconds):	12
Importance Factor ( $I_e$ ):	1.00
Response Modification Coefficient (R):	3.00
Design Spectral Response Acceleration at Short Period ( $S_{ds}$ ):	0.08
Design Spectral Response Acceleration at 1.0 Second Period ( $S_{d1}$ ):	0.07
Seismic Response Coefficient ( $C_s$ ):	0.03
Upper Limit $C_s$ :	0.03
Lower Limit $C_s$ :	0.03
Period based on Rayleigh Method (sec):	1.09
Redundancy Factor ( $p$ ):	1.30
Seismic Force Distribution Exponent ( $k$ ):	1.30
Total Unfactored Dead Load:	18.91 k
Seismic Base Shear (E):	0.74 k

SEISMIC FORCES

1.2D + 1.0Ev + 1.0Eh

Section/Appurtenance	Height Above Base (ft)	Weight (lb)	$W_2$ (lb-ft)	Cvx	Horizontal Force (lb)	Vertical Force (lb)
11	177.50	272	222,958	0.023	17	331
10	167.50	785	596,723	0.062	45	955
9	150.00	1,043	687,037	0.071	52	1,269
8	130.00	1,099	601,211	0.062	46	1,336
7	110.00	1,099	484,231	0.050	37	1,336
6	90.00	1,108	376,629	0.039	29	1,348
5	70.00	1,000	245,354	0.025	19	1,216
4	50.00	1,133	179,767	0.019	14	1,377
3	30.00	1,002	82,080	0.008	6	1,219
2	13.25	760	21,603	0.002	2	925
1	3.25	513	2,361	0.000	0	624
Ericsson Radio 4449	178.00	255	209,654	0.022	16	310
Antel RWA-80017LS ___ 5° 25%	178.00	62	50,975	0.005	4	75
Antel RWA-80017LS ___ 3° 25%	178.00	124	101,949	0.010	8	151
CSS X7C-865-VR0	178.00	240	197,321	0.020	15	292
Generic Round Platform with Handrails	176.00	2,500	2,025,564	0.209	154	3,040
Torque Arms	173.00	500	396,191	0.041	30	608
Raycap RCMDC-6627-PF-48	171.00	32	24,977	0.003	2	39
Generic Round Side Arm	155.00	188	128,864	0.013	10	228
Ericsson AIR 6472 B77G B77M (67.2lbs)	148.00	202	130,504	0.014	10	245
Ericsson Radio 4472HP B12A (30.6 lbs)	146.00	92	58,388	0.006	4	112
Ericsson Radio 4471 B30 (28.4lbs)	146.00	85	54,190	0.006	4	104
Ericsson Radio 4494 44B14 20B29 M01	146.00	172	109,334	0.011	8	209
Ericsson Radio 4890HP 48B2/B25 48B66 M01 (68.3lbs)	146.00	205	130,323	0.014	10	249
Raycap DC9-48-60-24-8C-EV (Enclosure)	146.00	18	11,767	0.001	1	22
Raycap DC6-48-60-18-8C-EV (Enclosure)	146.00	16	10,177	0.001	1	19
CellMax CMA-UBTLBULBHHHP/6516/16/21/21	146.00	377	239,657	0.025	18	458
CellMax CMA-UBTLBBLBHHHP/6517/17/21/21/21/21	146.00	429	272,858	0.028	21	522
Generic Flat Light Sector Frame	146.00	2,400	1,526,480	0.158	116	2,919
Torque Arms	117.00	500	238,718	0.025	18	608
Valmont GSA ISMD6	103.00	300	121,435	0.013	9	365
Andrew UHX6-107-P3A/K	94.00	320	115,063	0.012	9	389
RFS SUX4-107BC	75.00	77	20,666	0.002	2	94
<b>Totals</b>		<b>18,906</b>	<b>9,675,009</b>	<b>1.000</b>	<b>737</b>	<b>22,994</b>

1.2D + 1.0Ev + 1.5Eh

Section/Appurtenance	Height Above Base (ft)	Weight (lb)	$W_2$ (lb-ft)	Cvx	Horizontal Force (lb)	Vertical Force (lb)
11	177.50	272	222,958	0.023	25	331
10	167.50	785	596,723	0.062	68	955
9	150.00	1,043	687,037	0.071	79	1,269
8	130.00	1,099	601,211	0.062	69	1,336
7	110.00	1,099	484,231	0.050	55	1,336
6	90.00	1,108	376,629	0.039	43	1,348
5	70.00	1,000	245,354	0.025	28	1,216
4	50.00	1,133	179,767	0.019	21	1,377
3	30.00	1,002	82,080	0.008	9	1,219
2	13.25	760	21,603	0.002	2	925

ASSET: 98575, PLEASANT DALE  
 CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-I  
 PROJECT: 15440745\_C3\_03

1	3.25	513	2,361	0.000	0	624
Ericsson Radio 4449	178.00	255	209,654	0.022	24	310
Antel RWA-80017LS ___ 5° 25%	178.00	62	50,975	0.005	6	75
Antel RWA-80017LS ___ 3° 25%	178.00	124	101,949	0.010	12	151
CSS X7C-865-VR0	178.00	240	197,321	0.020	23	292
Generic Round Platform with Handrails	176.00	2,500	2,025,564	0.209	232	3,040
Torque Arms	173.00	500	396,191	0.041	45	608
Raycap RCMD-6627-PF-48	171.00	32	24,977	0.003	3	39
Generic Round Side Arm	155.00	188	128,864	0.013	15	228
Ericsson AIR 6472 B77G B77M (67.2lbs)	148.00	202	130,504	0.014	15	245
Ericsson Radio 4472HP B12A (30.6 lbs)	146.00	92	58,388	0.006	7	112
Ericsson Radio 4471 B30 (28.4lbs)	146.00	85	54,190	0.006	6	104
Ericsson Radio 4494 44B14 20B29 M01	146.00	172	109,334	0.011	12	209
Ericsson Radio 4890HP 48B2/B25 48B66 M01 (68.3lbs)	146.00	205	130,323	0.014	15	249
Raycap DC9-48-60-24-8C-EV (Enclosure)	146.00	18	11,767	0.001	1	22
Raycap DC6-48-60-18-8C-EV (Enclosure)	146.00	16	10,177	0.001	1	19
CellMax CMA-UBTULBULBHHP/6516/16/21/21	146.00	377	239,657	0.025	27	458
CellMax CMA-UBTLBLBHHP/6517/17/21/21/21/21	146.00	429	272,858	0.028	31	522
Generic Flat Light Sector Frame	146.00	2,400	1,526,480	0.158	175	2,919
Torque Arms	117.00	500	238,718	0.025	27	608
Valmont GSA ISMD6	103.00	300	121,435	0.013	14	365
Andrew UHX6-107-P3A/K	94.00	320	115,063	0.012	13	389
RFS SUX4-107BC	75.00	77	20,666	0.002	2	94
<b>Totals</b>		<b>18,906</b>	<b>9,675,009</b>	<b>1.000</b>	<b>1,106</b>	<b>22,994</b>

ASSET: 98575, PLEASANT DALE  
 CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-I  
 PROJECT: 15440745\_C3\_03

FORCE/STRESS SUMMARY

Section 1 - 0.0' to 6.50'

Member Compression	Pu	Load Case	Len (ft)	Bracing %			F <sub>y</sub> (ksi)	Φ <sub>c</sub> P <sub>n</sub> (kip)	Shear ΦR <sub>nv</sub> (kip)	Bear ΦR <sub>n</sub> (kip)	# Bolt	# Hole	Use %	Controls	
	(kip)			X	Y	Z									KL/R
L SOL - 1 3/4" SOLID	-29.69	1.2D + 1.0Di + 1.0Wi 180°	1.682	100	100	100	46.13	50.00	92.64	0.00	0.00	0	0	32	Member X
H PL - PL 8 x 0.5"	-0.36	1.2D + 1.0W 90°	0.75	100	100	100	40.62	31.14	118.97	0.00	0.00	0	0	0	Member Y

Member Tension	Pu	Load Case	F <sub>y</sub> (ksi)	F <sub>u</sub> (ksi)	Φ <sub>c</sub> P <sub>n</sub> (kip)	Shear ΦR <sub>nv</sub> (kip)	Bear ΦR <sub>n</sub> (kip)	Blk Shear Φ <sub>l</sub> P <sub>n</sub> (kip)	# Bolt	# Hole	Use %	Controls
	(kip)											
H PL - PL 8 x 0.5"	4.09	1.2D + 1.0Di + 1.0Wi 210°	36.0	58	129.60	0.00	0.00	0.00	0	0	3	Member

Max Splice Forces	Pu (kip)	Load Case	ΦR <sub>nt</sub> (kip)	Use %	Num Bolts	Bolt Type

Section 2 - 6.5' to 20.00'

Member Compression	Pu	Load Case	Len (ft)	Bracing %			F <sub>y</sub> (ksi)	Φ <sub>c</sub> P <sub>n</sub> (kip)	Shear ΦR <sub>nv</sub> (kip)	Bear ΦR <sub>n</sub> (kip)	# Bolt	# Hole	Use %	Controls	
	(kip)			X	Y	Z									KL/R
L SOL - 1 3/4" SOLID	-30.19	1.2D + 1.0Di + 1.0Wi 180°	3.281	100	100	100	89.99	50.00	59.87	0.00	0.00	0	0	50	Member X
H SOL - 7/8" SOLID	-0.16	1.2D + 1.0W 120°	3	100	100	100	107.00	36.00	10.66	0.00	0.00	0	0	1	Member X
D SOL - 1 1/4" SOLID	-0.85	1.2D + 1.0W 120°	4.446	100	100	100	119.50	36.00	18.75	0.00	0.00	0	0	5	Member X

Member Tension	Pu	Load Case	F <sub>y</sub> (ksi)	F <sub>u</sub> (ksi)	Φ <sub>c</sub> P <sub>n</sub> (kip)	Shear ΦR <sub>nv</sub> (kip)	Bear ΦR <sub>n</sub> (kip)	Blk Shear Φ <sub>l</sub> P <sub>n</sub> (kip)	# Bolt	# Hole	Use %	Controls
	(kip)											
H SOL - 7/8" SOLID	0.35	1.2D + 1.0Di + 1.0Wi 120°	36.0	58	19.48	0.00	0.00	0.00	0	0	2	Member
D SOL - 1 1/4" SOLID	0.69	1.2D + 1.0W 210°	36.0	58	39.76	0.00	0.00	0.00	0	0	2	Member

Max Splice Forces	Pu (kip)	Load Case	ΦR <sub>nt</sub> (kip)	Use %	Num Bolts	Bolt Type

ASSET: 98575, PLEASANT DALE  
 CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-1  
 PROJECT: 15440745\_C3\_03

FORCE/STRESS SUMMARY

Section 3 - 20.0' to 40.00'

Member Compression	Pu	Load Case	Len (ft)	Bracing %			F <sub>y</sub> (ksi)	Φ <sub>c</sub> P <sub>n</sub> (kip)	Shear	Bear	# Bolt	# Hole	Use %	Controls	
	(kip)			Φ <sub>R<sub>nv</sub></sub> (kip)	Φ <sub>R<sub>n</sub></sub> (kip)										
L SOL - 1 3/4" SOLID	-30.83	1.2D + 1.0Di + 1.0Wi 180°	3.271	100	100	100	89.71	50.00	60.09	0.00	0.00	0	0	51	Member X
H SOL - 7/8" SOLID	-0.04	1.2D + 1.0W 60°	3	100	100	100	107.00	36.00	10.66	0.00	0.00	0	0	0	Member X
D SOL - 1" SOLID	-0.56	1.2D + 1.0Di + 1.0Wi 120°	4.438	100	100	100	149.12	36.00	7.98	0.00	0.00	0	0	7	Member X

Member Tension	Pu	Load Case	F <sub>y</sub> (ksi)	F <sub>u</sub> (ksi)	Φ <sub>c</sub> P <sub>n</sub> (kip)	Shear	Bear	Blk Shear	# Bolt	# Hole	Use %	Controls
	(kip)					Φ <sub>R<sub>nv</sub></sub> (kip)	Φ <sub>R<sub>n</sub></sub> (kip)	Φ <sub>t</sub> P <sub>n</sub> (kip)				
H SOL - 7/8" SOLID	0.18	1.2D + 1.0Di + 1.0Wi 240°	36.0	58	19.48	0.00	0.00	0.00	0	0	1	Member
D SOL - 1" SOLID	0.25	1.2D + 1.0Di + 1.0Wi 240°	36.0	58	25.45	0.00	0.00	0.00	0	0	1	Member

Max Splice Forces	Pu (kip)	Load Case	Φ <sub>R<sub>nt</sub></sub> (kip)	Use %	Num Bolts	Bolt Type

Section 4 - 40.0' to 60.00'

Member Compression	Pu	Load Case	Len (ft)	Bracing %			F <sub>y</sub> (ksi)	Φ <sub>c</sub> P <sub>n</sub> (kip)	Shear	Bear	# Bolt	# Hole	Use %	Controls	
	(kip)			Φ <sub>R<sub>nv</sub></sub> (kip)	Φ <sub>R<sub>n</sub></sub> (kip)										
L SOL - 1 3/4" SOLID	-30.30	1.2D + 1.0Di + 1.0Wi 180°	3.271	100	100	100	89.71	50.00	60.09	0.00	0.00	0	0	50	Member X
H SOL - 7/8" SOLID	-0.51	1.2D + 1.0W 120°	3	100	100	100	107.00	36.00	10.66	0.00	0.00	0	0	5	Member X
D SOL - 1 1/4" SOLID	-1.92	1.2D + 1.0W 210°	4.438	100	100	100	119.30	36.00	18.80	0.00	0.00	0	0	10	Member X

Member Tension	Pu	Load Case	F <sub>y</sub> (ksi)	F <sub>u</sub> (ksi)	Φ <sub>c</sub> P <sub>n</sub> (kip)	Shear	Bear	Blk Shear	# Bolt	# Hole	Use %	Controls
	(kip)					Φ <sub>R<sub>nv</sub></sub> (kip)	Φ <sub>R<sub>n</sub></sub> (kip)	Φ <sub>t</sub> P <sub>n</sub> (kip)				
H SOL - 7/8" SOLID	0.59	1.2D + 1.0W 300°	36.0	58	19.48	0.00	0.00	0.00	0	0	3	Member
D SOL - 1 1/4" SOLID	1.47	1.2D + 1.0W 120°	36.0	58	39.76	0.00	0.00	0.00	0	0	4	Member

Max Splice Forces	Pu (kip)	Load Case	Φ <sub>R<sub>nt</sub></sub> (kip)	Use %	Num Bolts	Bolt Type

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Section 5 - 60.0' to 80.00'

Member Compression	Pu	Load Case	Len (ft)	Bracing %			F <sub>y</sub> (ksi)	Φ <sub>c</sub> P <sub>n</sub> (kip)	Shear ΦR <sub>nv</sub> (kip)	Bear ΦR <sub>n</sub> (kip)	# Bolt	# Hole	Use %	Controls	
	(kip)			X	Y	Z									KL/R
L SOL - 1 3/4" SOLID	-29.34	1.2D + 1.0Di + 1.0Wi 180°	3.271	100	100	100	89.71	50.00	60.09	0.00	0.00	0	0	49	Member X
H SOL - 7/8" SOLID	-0.39	1.2D + 1.0W 300°	3	100	100	100	107.00	36.00	10.66	0.00	0.00	0	0	4	Member X
D SOL - 1" SOLID	-1.39	1.2D + 1.0W 120°	4.438	100	100	100	149.12	36.00	7.98	0.00	0.00	0	0	17	Member X

Member Tension	Pu	Load Case	F <sub>y</sub> (ksi)	F <sub>u</sub> (ksi)	Φ <sub>c</sub> P <sub>n</sub> (kip)	Shear ΦR <sub>nv</sub> (kip)	Bear ΦR <sub>n</sub> (kip)	Blk Shear Φ <sub>t</sub> P <sub>n</sub> (kip)	# Bolt	# Hole	Use %	Controls
	(kip)											
H SOL - 7/8" SOLID	0.45	1.2D + 1.0W 120°	36.0	58	19.48	0.00	0.00	0.00	0	0	2	Member
D SOL - 1" SOLID	1.38	1.2D + 1.0W 210°	36.0	58	25.45	0.00	0.00	0.00	0	0	5	Member

Max Splice Forces	Pu (kip)	Load Case	ΦR <sub>nt</sub> (kip)	Use %	Num Bolts	Bolt Type
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Section 6 - 80.0' to 100.00'

Member Compression	Pu	Load Case	Len (ft)	Bracing %			F <sub>y</sub> (ksi)	Φ <sub>c</sub> P <sub>n</sub> (kip)	Shear ΦR <sub>nv</sub> (kip)	Bear ΦR <sub>n</sub> (kip)	# Bolt	# Hole	Use %	Controls	
	(kip)			X	Y	Z									KL/R
L SOL - 1 3/4" SOLID	-29.03	1.2D + 1.0Di + 1.0Wi 180°	3.271	100	100	100	89.71	50.00	60.09	0.00	0.00	0	0	48	Member X
H SOL - 7/8" SOLID	-1.22	1.2D + 1.0W 120°	3	100	100	100	107.00	36.00	10.66	0.00	0.00	0	0	11	Member X
D SOL - 1 1/4" SOLID	-2.79	1.2D + 1.0W 120°	4.438	100	100	100	119.30	36.00	18.80	0.00	0.00	0	0	15	Member X

Member Tension	Pu	Load Case	F <sub>y</sub> (ksi)	F <sub>u</sub> (ksi)	Φ <sub>c</sub> P <sub>n</sub> (kip)	Shear ΦR <sub>nv</sub> (kip)	Bear ΦR <sub>n</sub> (kip)	Blk Shear Φ <sub>t</sub> P <sub>n</sub> (kip)	# Bolt	# Hole	Use %	Controls
	(kip)											
H SOL - 7/8" SOLID	1.36	1.2D + 1.0W 300°	36.0	58	19.48	0.00	0.00	0.00	0	0	7	Member
D SOL - 1 1/4" SOLID	2.58	1.2D + 1.0W 240°	36.0	58	39.76	0.00	0.00	0.00	0	0	6	Member

Max Splice Forces	Pu (kip)	Load Case	ΦR <sub>nt</sub> (kip)	Use %	Num Bolts	Bolt Type
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Section 7 - 100.0' to 120.00'

Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing %			F <sub>y</sub> (ksi)	Φ <sub>c</sub> P <sub>n</sub> (kip)	Shear	Bear	# Bolt	# Hole	Use %	Controls
				Φ <sub>R<sub>nv</sub></sub> (kip)	Φ <sub>R<sub>n</sub></sub> (kip)									
L SOL - 1 3/4" SOLID	-25.41	1.2D + 1.0W 120°	3.271	100	100	100	89.71	50.00	60.09	0.00	0	0	42	Member X
H SOL - 7/8" SOLID	-0.95	1.2D + 1.0W 120°	3	100	100	100	107.00	36.00	10.66	0.00	0	0	9	Member X
D SOL - 1 1/4" SOLID	-3.60	1.2D + 1.0W 240°	4.438	100	100	100	119.30	36.00	18.80	0.00	0	0	19	Member X

Member Tension	Pu (kip)	Load Case	F <sub>y</sub> (ksi)	F <sub>u</sub> (ksi)	Φ <sub>c</sub> P <sub>n</sub> (kip)	Φ <sub>R<sub>nv</sub></sub> (kip)	Φ <sub>R<sub>n</sub></sub> (kip)	Blk Shear	# Bolt	# Hole	Use %	Controls
								Φ <sub>1</sub> P <sub>n</sub> (kip)				
L SOL - 1 3/4" SOLID	4.97	1.2D + 1.0W 180°	50.0	65	108.24	0.00	0.00	0	0	0	5	Member
H SOL - 7/8" SOLID	1.51	1.2D + 1.0W 240°	36.0	58	19.48	0.00	0.00	0.00	0	0	8	Member
D SOL - 1 1/4" SOLID	3.37	1.2D + 1.0W 120°	36.0	58	39.76	0.00	0.00	0.00	0	0	8	Member

Max Splice Forces	Pu (kip)	Load Case	Φ <sub>R<sub>nt</sub></sub> (kip)	Use %	Num Bolts	Bolt Type

Section 8 - 120.0' to 140.00'

Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing %			F <sub>y</sub> (ksi)	Φ <sub>c</sub> P <sub>n</sub> (kip)	Shear	Bear	# Bolt	# Hole	Use %	Controls
				Φ <sub>R<sub>nv</sub></sub> (kip)	Φ <sub>R<sub>n</sub></sub> (kip)									
L SOL - 1 3/4" SOLID	-20.79	1.2D + 1.0W N	3.271	100	100	100	89.71	50.00	60.09	0.00	0	0	35	Member X
H SOL - 7/8" SOLID	-1.16	1.2D + 1.0W 60°	3	100	100	100	107.00	36.00	10.66	0.00	0	0	11	Member X
D SOL - 1 1/4" SOLID	-3.07	1.2D + 1.0W 90°	4.438	100	100	100	119.30	36.00	18.80	0.00	0	0	16	Member X

Member Tension	Pu (kip)	Load Case	F <sub>y</sub> (ksi)	F <sub>u</sub> (ksi)	Φ <sub>c</sub> P <sub>n</sub> (kip)	Φ <sub>R<sub>nv</sub></sub> (kip)	Φ <sub>R<sub>n</sub></sub> (kip)	Blk Shear	# Bolt	# Hole	Use %	Controls
								Φ <sub>1</sub> P <sub>n</sub> (kip)				
L SOL - 1 3/4" SOLID	3.06	1.2D + 1.0W 180°	50.0	65	108.24	0.00	0.00	0	0	0	3	Member
H SOL - 7/8" SOLID	0.85	1.2D + 1.0W 60°	36.0	58	19.48	0.00	0.00	0.00	0	0	4	Member
D SOL - 1 1/4" SOLID	3.40	1.2D + 1.0W 90°	36.0	58	39.76	0.00	0.00	0.00	0	0	9	Member

Max Splice Forces	Pu (kip)	Load Case	Φ <sub>R<sub>nt</sub></sub> (kip)	Use %	Num Bolts	Bolt Type
Bot Tension	3.00	1.2D + 1.0W 180°	120.41	2	4	0.75" A325

Section 9 - 140.0' to 160.00'

Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing %			F <sub>y</sub> (ksi)	Φ <sub>c</sub> P <sub>n</sub> (kip)	Shear	Bear	# Bolt	# Hole	Use %	Controls
				Φ <sub>R<sub>nv</sub></sub> (kip)	Φ <sub>R<sub>n</sub></sub> (kip)									
L SOL - 1 3/4" SOLID	-21.42	1.2D + 1.0W 300°	3.271	100	100	100	89.71	50.00	60.09	0.00	0	0	36	Member X
H SOL - 7/8" SOLID	-1.15	1.2D + 1.0W 120°	3	100	100	100	107.00	36.00	10.66	0.00	0	0	11	Member X
D SOL - 1 1/4" SOLID	-2.17	1.2D + 1.0W 300°	4.438	100	100	100	119.30	36.00	18.80	0.00	0	0	12	Member X

Member Tension	Pu (kip)	Load Case	F <sub>y</sub> (ksi)	F <sub>u</sub> (ksi)	Φ <sub>c</sub> P <sub>n</sub> (kip)	Φ <sub>R<sub>nv</sub></sub> (kip)	Φ <sub>R<sub>n</sub></sub> (kip)	Blk Shear	# Bolt	# Hole	Use %	Controls
								Φ <sub>1</sub> P <sub>n</sub> (kip)				
L SOL - 1 3/4" SOLID	4.74	1.2D + 1.0W 240°	50.0	65	108.24	0.00	0.00	0	0	0	4	Member
H SOL - 7/8" SOLID	1.23	1.2D + 1.0W 300°	36.0	58	19.48	0.00	0.00	0.00	0	0	6	Member
D SOL - 1 1/4" SOLID	2.38	1.2D + 1.0W 90°	36.0	58	39.76	0.00	0.00	0.00	0	0	6	Member

Max Splice Forces	Pu (kip)	Load Case	Φ <sub>R<sub>nt</sub></sub> (kip)	Use %	Num Bolts	Bolt Type

Section 10 - 160.0' to 175.00'

Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing %			F <sub>y</sub> (ksi)	Φ <sub>c</sub> P <sub>n</sub> (kip)	Shear	Bear	# Bolt	# Hole	Use %	Controls
				Φ <sub>R<sub>nv</sub></sub> (kip)	Φ <sub>R<sub>n</sub></sub> (kip)									
L SOL - 1 3/4" SOLID	-13.44	1.2D + 1.0W 90°	2.925	100	100	100	80.22	50.00	67.61	0.00	0	0	20	Member X
H SOL - 7/8" SOLID	-0.66	1.2D + 1.0W 120°	3	100	100	100	107.00	36.00	10.66	0.00	0	0	6	Member X
D SOL - 1 1/4" SOLID	-3.09	1.2D + 1.0W 240°	4.19	100	100	100	112.62	36.00	20.39	0.00	0	0	15	Member X

Member Tension	Pu (kip)	Load Case	F <sub>y</sub> (ksi)	F <sub>u</sub> (ksi)	Φ <sub>c</sub> P <sub>n</sub> (kip)	Φ <sub>R<sub>nv</sub></sub> (kip)	Φ <sub>R<sub>n</sub></sub> (kip)	Blk Shear	# Bolt	# Hole	Use %	Controls
								Φ <sub>1</sub> P <sub>n</sub> (kip)				
L SOL - 1 3/4" SOLID	6.87	1.2D + 1.0W 180°	50.0	65	108.24	0.00	0.00	0	0	0	6	Member

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	Pu (kip)	Load Case	ΦR <sub>nt</sub> (kip)	Use %	Num Bolts	Bolt Type
H SOL - 7/8" SOLID	1.76	1.2D + 1.0W 120°	36.0	58	19.48	0.00 0.00 0.00 0 0 9 Member
D SOL - 1 1/4" SOLID	3.56	1.2D + 1.0W 90°	36.0	58	39.76	0.00 0.00 0.00 0 0 9 Member

**Section 11 - 175.0' to 180.00'**

Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing %			F <sub>y</sub> (ksi)	Φ <sub>c</sub> P <sub>n</sub> (kip)	Shear ΦR <sub>nv</sub> (kip)	Bear ΦR <sub>n</sub> (kip)	# Bolt	# Hole	Use %	Controls	
L SOL - 2" SOLID	-3.74	1.2D + 1.0W 180°	4.624	100	100	100	110.98	50.00	57.45	0.00	0.00	0	0	7	Member X
H SOL - 7/8" SOLID	-1.50	1.2D + 1.0W 180°	3	100	100	100	107.00	36.00	10.66	0.00	0.00	0	0	14	Member X
D SOL - 1 1/4" SOLID	-4.05	1.2D + 1.0W N	5.512	100	100	100	148.16	36.00	12.63	0.00	0.00	0	0	32	Member X

Member Tension	Pu (kip)	Load Case	F <sub>y</sub> (ksi)	F <sub>u</sub> (ksi)	Φ <sub>c</sub> P <sub>n</sub> (kip)	Shear ΦR <sub>nv</sub> (kip)	Bear ΦR <sub>n</sub> (kip)	Blk Shear Φ <sub>t</sub> P <sub>n</sub> (kip)	# Bolt	# Hole	Use %	Controls
L SOL - 2" SOLID	5.41	1.2D + 1.0W 180°	50.0	65	141.37	0.00	0.00	0.00	0	0	4	Member
H SOL - 7/8" SOLID	1.47	1.2D + 1.0W 180°	36.0	58	19.48	0.00	0.00	0.00	0	0	8	Member
D SOL - 1 1/4" SOLID	4.05	1.2D + 1.0W 180°	36.0	58	39.76	0.00	0.00	0.00	0	0	10	Member

Max Splice Forces	Pu (kip)	Load Case	ΦR <sub>nt</sub> (kip)	Use %	Num Bolts	Bolt Type
Bot Tension	5.36	1.2D + 1.0W 180°	120.41	4	4	0.75" A325

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DETAILED CABLE FORCES

Load Case	Elevation (ft)	Cable	Anchor Node	Tower Node	Available Tension (kip)	Applied Tension (kip)	Use (%)
1.2D + 1.0W Normal	56.54	5/16 EHS	A1	25	6.72	0.07	1
		5/16 EHS	A1b	25a	6.72	3.13	47
		5/16 EHS	A1a	25b	6.72	3.13	47
	116.54	3/8 EHS	A1b	T2	9.24	4.58	50
		3/8 EHS	A1	T2	9.24	0.17	2
		3/8 EHS	A1a	T2a	9.24	4.41	48
		3/8 EHS	A1b	T2a	9.24	4.4	48
		3/8 EHS	A1a	T2b	9.24	4.57	49
		3/8 EHS	A1	T2b	9.24	0.17	2
	171.89	7/16 EHS	A1	T3	12.48	0.5	4
		7/16 EHS	A1b	T3	12.48	6.06	49
		7/16 EHS	A1a	T3a	12.48	5.74	46
		7/16 EHS	A1b	T3a	12.48	5.75	46
		7/16 EHS	A1a	T3b	12.48	6.07	49
		7/16 EHS	A1	T3b	12.48	0.5	4
	1.2D + 1.0W 60°	56.54	5/16 EHS	A1	25	6.72	0.7
5/16 EHS			A1b	25a	6.72	0.66	10
5/16 EHS			A1a	25b	6.72	3.84	57
116.54		3/8 EHS	A1b	T2	9.24	1.02	11
		3/8 EHS	A1	T2	9.24	1.11	12
		3/8 EHS	A1b	T2a	9.24	1.01	11
		3/8 EHS	A1a	T2a	9.24	5.26	57
		3/8 EHS	A1	T2b	9.24	0.97	11
		3/8 EHS	A1a	T2b	9.24	5.54	60
171.89		7/16 EHS	A1b	T3	12.48	1.69	14
		7/16 EHS	A1	T3	12.48	1.69	14
		7/16 EHS	A1a	T3a	12.48	6.83	55
		7/16 EHS	A1b	T3a	12.48	1.62	13
		7/16 EHS	A1	T3b	12.48	1.51	12
		7/16 EHS	A1a	T3b	12.48	7.01	56
1.2D + 1.0W 90°		56.54	5/16 EHS	A1	25	6.72	2
	5/16 EHS		A1b	25a	6.72	0.17	3
	5/16 EHS		A1a	25b	6.72	3.81	57
	116.54	3/8 EHS	A1	T2	9.24	3.06	33
		3/8 EHS	A1b	T2	9.24	0.37	4
		3/8 EHS	A1a	T2a	9.24	5.32	58
		3/8 EHS	A1b	T2a	9.24	0.35	4
		3/8 EHS	A1	T2b	9.24	2.66	29
		3/8 EHS	A1a	T2b	9.24	5.47	59
	171.89	7/16 EHS	A1	T3	12.48	4.06	33
		7/16 EHS	A1b	T3	12.48	0.76	6
		7/16 EHS	A1a	T3a	12.48	6.88	55
		7/16 EHS	A1b	T3a	12.48	0.72	6
		7/16 EHS	A1a	T3b	12.48	6.83	55
		7/16 EHS	A1	T3b	12.48	3.56	29
	1.2D + 1.0W 120°	56.54	5/16 EHS	A1	25	6.72	3.18
5/16 EHS			A1b	25a	6.72	0.06	1
5/16 EHS			A1a	25b	6.72	3.18	47
116.54		3/8 EHS	A1b	T2	9.24	0.16	2
		3/8 EHS	A1	T2	9.24	4.7	51
		3/8 EHS	A1a	T2a	9.24	4.53	49
		3/8 EHS	A1b	T2a	9.24	0.17	2
		3/8 EHS	A1a	T2b	9.24	4.55	49
		3/8 EHS	A1	T2b	9.24	4.31	47
171.89		7/16 EHS	A1b	T3	12.48	0.5	4
		7/16 EHS	A1	T3	12.48	6.11	49
		7/16 EHS	A1a	T3a	12.48	5.92	47
		7/16 EHS	A1b	T3a	12.48	0.51	4
		7/16 EHS	A1	T3b	12.48	5.6	45

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DETAILED CABLE FORCES

Load Case	Elevation (ft)	Cable	Anchor Node	Tower Node	Available Tension (kip)	Applied Tension (kip)	Use (%)	
1.2D + 1.0W 180°	56.54	7/16 EHS	A1a	T3b	12.48	5.71	46	
		5/16 EHS	A1	25	6.72	3.82	57	
	116.54	5/16 EHS	A1b	25a	6.72	0.68	10	
		5/16 EHS	A1a	25b	6.72	0.68	10	
		3/8 EHS	A1b	T2	9.24	1	11	
		3/8 EHS	A1	T2	9.24	5.34	58	
		3/8 EHS	A1a	T2a	9.24	1.07	12	
		3/8 EHS	A1b	T2a	9.24	1.07	12	
		3/8 EHS	A1	T2b	9.24	5.35	58	
		3/8 EHS	A1a	T2b	9.24	1	11	
		171.89	7/16 EHS	A1b	T3	12.48	1.56	12
			7/16 EHS	A1	T3	12.48	6.98	56
	7/16 EHS		A1a	T3a	12.48	1.67	13	
	7/16 EHS		A1b	T3a	12.48	1.67	13	
	1.2D + 1.0W 210°	56.54	7/16 EHS	A1	T3b	12.48	1.56	13
			5/16 EHS	A1	25	6.72	3.8	57
116.54		5/16 EHS	A1b	25a	6.72	1.98	29	
		5/16 EHS	A1a	25b	6.72	0.17	3	
		3/8 EHS	A1b	T2	9.24	2.84	31	
		3/8 EHS	A1	T2	9.24	5.22	56	
		3/8 EHS	A1a	T2a	9.24	0.38	4	
		3/8 EHS	A1b	T2a	9.24	2.9	31	
		3/8 EHS	A1a	T2b	9.24	0.34	4	
		3/8 EHS	A1	T2b	9.24	5.46	59	
		171.89	7/16 EHS	A1b	T3	12.48	3.68	30
			7/16 EHS	A1	T3	12.48	6.78	54
7/16 EHS			A1a	T3a	12.48	0.76	6	
7/16 EHS			A1b	T3a	12.48	3.94	32	
1.2D + 1.0W 240°		56.54	7/16 EHS	A1	T3b	12.48	7.09	57
			5/16 EHS	A1a	T3b	12.48	0.71	6
	116.54	5/16 EHS	A1	25	6.72	3.18	47	
		5/16 EHS	A1b	25a	6.72	3.18	47	
		5/16 EHS	A1a	25b	6.72	0.06	1	
		3/8 EHS	A1b	T2	9.24	4.56	49	
		3/8 EHS	A1	T2	9.24	4.3	47	
		3/8 EHS	A1a	T2a	9.24	0.17	2	
		3/8 EHS	A1b	T2a	9.24	4.53	49	
		3/8 EHS	A1a	T2b	9.24	0.16	2	
		3/8 EHS	A1	T2b	9.24	4.7	51	
		171.89	7/16 EHS	A1b	T3	12.48	5.69	46
	7/16 EHS		A1	T3	12.48	5.61	45	
	7/16 EHS		A1a	T3a	12.48	0.51	4	
	7/16 EHS		A1b	T3a	12.48	5.92	47	
	1.2D + 1.0W 300°	56.54	7/16 EHS	A1a	T3b	12.48	0.5	4
7/16 EHS			A1	T3b	12.48	6.11	49	
116.54		5/16 EHS	A1	25	6.72	0.7	10	
		5/16 EHS	A1b	25a	6.72	3.84	57	
		5/16 EHS	A1a	25b	6.72	0.66	10	
		3/8 EHS	A1	T2	9.24	0.97	10	
		3/8 EHS	A1b	T2	9.24	5.55	60	
		3/8 EHS	A1a	T2a	9.24	1.02	11	
		3/8 EHS	A1b	T2a	9.24	5.25	57	
		3/8 EHS	A1	T2b	9.24	1.11	12	
		3/8 EHS	A1a	T2b	9.24	1.02	11	
		171.89	7/16 EHS	A1	T3	12.48	1.51	12
7/16 EHS			A1b	T3	12.48	7	56	
7/16 EHS			A1a	T3a	12.48	1.62	13	
7/16 EHS			A1b	T3a	12.48	6.83	55	

ASSET: 98575, PLEASANT DALE  
 CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-I  
 PROJECT: 15440745\_C3\_03

DETAILED CABLE FORCES

Load Case	Elevation (ft)	Cable	Anchor Node	Tower Node	Available Tension (kip)	Applied Tension (kip)	Use (%)
1.2D + 1.0W 330°	56.54	7/16 EHS	A1a	T3b	12.48	1.69	14
		7/16 EHS	A1	T3b	12.48	1.69	14
	116.54	5/16 EHS	A1	25	6.72	0.18	3
		5/16 EHS	A1b	25a	6.72	3.78	56
		5/16 EHS	A1a	25b	6.72	1.94	29
		3/8 EHS	A1b	T2	9.24	5.48	59
		3/8 EHS	A1	T2	9.24	0.34	4
		3/8 EHS	A1b	T2a	9.24	5.24	57
		3/8 EHS	A1a	T2a	9.24	2.8	30
		3/8 EHS	A1	T2b	9.24	0.38	4
		3/8 EHS	A1a	T2b	9.24	2.85	31
		7/16 EHS	A1	T3	12.48	0.71	6
	171.89	7/16 EHS	A1b	T3	12.48	7.06	57
		7/16 EHS	A1a	T3a	12.48	3.78	30
7/16 EHS		A1b	T3a	12.48	6.79	54	
7/16 EHS		A1	T3b	12.48	0.75	6	
7/16 EHS		A1a	T3b	12.48	4.02	32	
7/16 EHS		A1	T3	12.48	2.32	19	
1.2D + 1.0Di + 1.0Wi Normal	56.54	5/16 EHS	A1	25	6.72	1.65	25
		5/16 EHS	A1b	25a	6.72	3.04	45
	116.54	5/16 EHS	A1a	25b	6.72	3.05	45
		3/8 EHS	A1	T2	9.24	1.85	20
		3/8 EHS	A1b	T2	9.24	3.83	41
		3/8 EHS	A1a	T2a	9.24	3.74	40
		3/8 EHS	A1b	T2a	9.24	3.73	40
		3/8 EHS	A1	T2b	9.24	1.86	20
		3/8 EHS	A1a	T2b	9.24	3.83	41
		7/16 EHS	A1b	T3	12.48	4.7	38
		7/16 EHS	A1	T3	12.48	2.32	19
		7/16 EHS	A1b	T3a	12.48	4.57	37
	171.89	7/16 EHS	A1a	T3a	12.48	4.56	37
		7/16 EHS	A1a	T3b	12.48	4.71	38
7/16 EHS		A1	T3b	12.48	2.31	19	
5/16 EHS		A1	25	6.72	2.05	31	
5/16 EHS		A1b	25a	6.72	2.02	30	
5/16 EHS		A1a	25b	6.72	3.52	52	
1.2D + 1.0Di + 1.0Wi 60°	56.54	3/8 EHS	A1	T2	9.24	2.56	28
		3/8 EHS	A1b	T2	9.24	2.53	27
	116.54	3/8 EHS	A1a	T2a	9.24	4.47	48
		3/8 EHS	A1b	T2a	9.24	2.46	27
		3/8 EHS	A1a	T2b	9.24	4.51	49
		3/8 EHS	A1	T2b	9.24	2.44	26
		7/16 EHS	A1	T3	12.48	3.34	27
		7/16 EHS	A1b	T3	12.48	3.35	27
		7/16 EHS	A1a	T3a	12.48	5.5	44
		7/16 EHS	A1b	T3a	12.48	3.22	26
		7/16 EHS	A1a	T3b	12.48	5.53	44
		7/16 EHS	A1	T3b	12.48	3.16	25
	171.89	5/16 EHS	A1	25	6.72	2.55	38
		5/16 EHS	A1b	25a	6.72	1.7	25
5/16 EHS		A1a	25b	6.72	3.4	51	
3/8 EHS		A1	T2	9.24	3.2	35	
3/8 EHS		A1b	T2	9.24	2.01	22	
3/8 EHS		A1b	T2a	9.24	2.01	22	
171.89	3/8 EHS	A1a	T2a	9.24	4.28	46	
	3/8 EHS	A1a	T2b	9.24	4.3	47	
	3/8 EHS	A1	T2b	9.24	3.05	33	
	7/16 EHS	A1b	T3	12.48	2.68	21	
	7/16 EHS	A1	T3	12.48	4.04	32	
	7/16 EHS	A1b	T3a	12.48	2.62	21	

ASSET: 98575, PLEASANT DALE  
 CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-I  
 PROJECT: 15440745\_C3\_03

DETAILED CABLE FORCES

Load Case	Elevation (ft)	Cable	Anchor Node	Tower Node	Available Tension (kip)	Applied Tension (kip)	Use (%)	
1.2D + 1.0Di + 1.0Wi 120°	56.54	7/16 EHS	A1a	T3a	12.48	5.25	42	
		7/16 EHS	A1a	T3b	12.48	5.23	42	
		7/16 EHS	A1	T3b	12.48	3.83	31	
	1.2D + 1.0Di + 1.0Wi 180°	56.54	5/16 EHS	A1	25	6.72	3.08	46
			5/16 EHS	A1b	25a	6.72	1.63	24
			5/16 EHS	A1a	25b	6.72	3.06	45
		116.54	3/8 EHS	A1b	T2	9.24	1.84	20
			3/8 EHS	A1	T2	9.24	3.84	42
			3/8 EHS	A1a	T2a	9.24	3.83	41
			3/8 EHS	A1b	T2a	9.24	1.86	20
			3/8 EHS	A1a	T2b	9.24	3.76	41
			3/8 EHS	A1	T2b	9.24	3.72	40
171.89			7/16 EHS	A1b	T3	12.48	2.34	19
			7/16 EHS	A1	T3	12.48	4.71	38
			7/16 EHS	A1a	T3a	12.48	4.68	38
1.2D + 1.0Di + 1.0Wi 210°	56.54	7/16 EHS	A1b	T3a	12.48	2.37	19	
		7/16 EHS	A1	T3b	12.48	4.53	36	
		7/16 EHS	A1a	T3b	12.48	4.56	37	
	116.54	5/16 EHS	A1	25	6.72	3.54	53	
		5/16 EHS	A1b	25a	6.72	2.03	30	
		5/16 EHS	A1a	25b	6.72	2.03	30	
		3/8 EHS	A1b	T2	9.24	2.46	27	
		3/8 EHS	A1	T2	9.24	4.47	48	
		3/8 EHS	A1a	T2a	9.24	2.55	28	
		3/8 EHS	A1b	T2a	9.24	2.55	28	
		3/8 EHS	A1a	T2b	9.24	2.45	27	
		3/8 EHS	A1	T2b	9.24	4.48	48	
171.89	7/16 EHS	A1b	T3	12.48	3.19	26		
	7/16 EHS	A1	T3	12.48	5.51	44		
	7/16 EHS	A1a	T3a	12.48	3.35	27		
	7/16 EHS	A1b	T3a	12.48	3.35	27		
	7/16 EHS	A1a	T3b	12.48	3.19	26		
	7/16 EHS	A1	T3b	12.48	5.5	44		
1.2D + 1.0Di + 1.0Wi 240°	56.54	5/16 EHS	A1	25	6.72	3.42	51	
		5/16 EHS	A1b	25a	6.72	2.53	38	
		5/16 EHS	A1a	25b	6.72	1.71	25	
	116.54	3/8 EHS	A1b	T2	9.24	3.08	33	
		3/8 EHS	A1	T2	9.24	4.25	46	
		3/8 EHS	A1a	T2a	9.24	2.03	22	
		3/8 EHS	A1b	T2a	9.24	3.19	34	
		3/8 EHS	A1a	T2b	9.24	1.99	22	
		3/8 EHS	A1	T2b	9.24	4.3	47	
		171.89	7/16 EHS	A1	T3	12.48	5.2	42
			7/16 EHS	A1b	T3	12.48	3.86	31
			7/16 EHS	A1a	T3a	12.48	2.69	22
116.54	7/16 EHS	A1b	T3a	12.48	4.03	32		
	7/16 EHS	A1a	T3b	12.48	2.59	21		
	7/16 EHS	A1	T3b	12.48	5.27	42		
	171.89	5/16 EHS	A1	25	6.72	3.08	46	
		5/16 EHS	A1b	25a	6.72	3.06	45	
		5/16 EHS	A1a	25b	6.72	1.63	24	
		3/8 EHS	A1	T2	9.24	3.71	40	
		3/8 EHS	A1b	T2	9.24	3.77	41	
		3/8 EHS	A1a	T2a	9.24	1.86	20	
171.89	3/8 EHS	A1b	T2a	9.24	3.82	41		
	3/8 EHS	A1a	T2b	9.24	1.84	20		
	3/8 EHS	A1	T2b	9.24	3.85	42		
171.89	7/16 EHS	A1	T3	12.48	4.54	36		
	7/16 EHS	A1b	T3	12.48	4.56	37		

ASSET: 98575, PLEASANT DALE  
 CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-I  
 PROJECT: 15440745\_C3\_03

DETAILED CABLE FORCES

Load Case	Elevation (ft)	Cable	Anchor Node	Tower Node	Available Tension (kip)	Applied Tension (kip)	Use (%)	
<b>1.2D + 1.0Di + 1.0Wi 300°</b>	56.54	7/16 EHS	A1b	T3a	12.48	4.69	38	
		7/16 EHS	A1a	T3a	12.48	2.36	19	
		7/16 EHS	A1	T3b	12.48	4.7	38	
		7/16 EHS	A1a	T3b	12.48	2.34	19	
		5/16 EHS	A1	25	6.72	2.05	31	
		5/16 EHS	A1b	25a	6.72	3.52	52	
	116.54	5/16 EHS	A1a	25b	6.72	2.02	30	
		3/8 EHS	A1b	T2	9.24	4.52	49	
		3/8 EHS	A1	T2	9.24	2.44	26	
		3/8 EHS	A1a	T2a	9.24	2.46	27	
		3/8 EHS	A1b	T2a	9.24	4.47	48	
		3/8 EHS	A1	T2b	9.24	2.56	28	
171.89	3/8 EHS	A1a	T2b	9.24	2.52	27		
	7/16 EHS	A1	T3	12.48	3.16	25		
	7/16 EHS	A1b	T3	12.48	5.52	44		
	7/16 EHS	A1a	T3a	12.48	3.21	26		
	7/16 EHS	A1b	T3a	12.48	5.51	44		
	7/16 EHS	A1	T3b	12.48	3.34	27		
<b>1.2D + 1.0Di + 1.0Wi 330°</b>	56.54	7/16 EHS	A1a	T3b	12.48	3.36	27	
		5/16 EHS	A1	25	6.72	1.73	26	
		5/16 EHS	A1b	25a	6.72	3.39	50	
		5/16 EHS	A1a	25b	6.72	2.52	37	
		116.54	3/8 EHS	A1	T2	9.24	1.99	22
			3/8 EHS	A1b	T2	9.24	4.31	47
	3/8 EHS		A1a	T2a	9.24	3.07	33	
	3/8 EHS		A1b	T2a	9.24	4.26	46	
	3/8 EHS		A1a	T2b	9.24	3.18	34	
	3/8 EHS		A1	T2b	9.24	2.04	22	
	171.89	7/16 EHS	A1	T3	12.48	2.56	21	
		7/16 EHS	A1b	T3	12.48	5.28	42	
7/16 EHS		A1a	T3a	12.48	3.87	31		
7/16 EHS		A1b	T3a	12.48	5.22	42		
7/16 EHS		A1a	T3b	12.48	4.05	32		
7/16 EHS		A1	T3b	12.48	2.67	21		
<b>1.2D + 1.0Ev + 1.0Eh Normal</b>	56.54	5/16 EHS	A1	25	6.72	1.06	16	
		5/16 EHS	A1b	25a	6.72	1.11	17	
		5/16 EHS	A1a	25b	6.72	1.11	17	
		116.54	3/8 EHS	A1b	T2	9.24	1.45	16
			3/8 EHS	A1	T2	9.24	1.28	14
			3/8 EHS	A1a	T2a	9.24	1.45	16
	3/8 EHS		A1b	T2a	9.24	1.45	16	
	3/8 EHS		A1a	T2b	9.24	1.44	16	
	3/8 EHS		A1	T2b	9.24	1.28	14	
	171.89	7/16 EHS	A1	T3	12.48	1.58	13	
		7/16 EHS	A1b	T3	12.48	1.91	15	
		7/16 EHS	A1a	T3a	12.48	1.9	15	
7/16 EHS		A1b	T3a	12.48	1.9	15		
7/16 EHS		A1a	T3b	12.48	1.91	15		
7/16 EHS		A1	T3b	12.48	1.57	13		
<b>1.2D + 1.0Ev + 1.0Eh 60°</b>	56.54	5/16 EHS	A1	25	6.72	1.08	16	
		5/16 EHS	A1b	25a	6.72	1.08	16	
		5/16 EHS	A1a	25b	6.72	1.12	17	
		116.54	3/8 EHS	A1b	T2	9.24	1.34	14
			3/8 EHS	A1	T2	9.24	1.33	14
			3/8 EHS	A1b	T2a	9.24	1.33	14
	3/8 EHS		A1a	T2a	9.24	1.5	16	
	3/8 EHS		A1	T2b	9.24	1.34	14	
	3/8 EHS		A1a	T2b	9.24	1.5	16	
	171.89	7/16 EHS	A1b	T3	12.48	1.69	14	

ASSET: 98575, PLEASANT DALE  
 CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-I  
 PROJECT: 15440745\_C3\_03

DETAILED CABLE FORCES

Load Case	Elevation (ft)	Cable	Anchor Node	Tower Node	Available Tension (kip)	Applied Tension (kip)	Use (%)		
1.2D + 1.0Ev + 1.0Eh 90°	56.54	7/16 EHS	A1	T3	12.48	1.69	14		
		7/16 EHS	A1a	T3a	12.48	2.01	16		
		7/16 EHS	A1b	T3a	12.48	1.68	13		
		7/16 EHS	A1	T3b	12.48	1.68	13		
		7/16 EHS	A1a	T3b	12.48	2.02	16		
	1.2D + 1.0Ev + 1.0Eh 120°	56.54	5/16 EHS	A1	25	6.72	1.09	16	
			5/16 EHS	A1b	25a	6.72	1.07	16	
			5/16 EHS	A1a	25b	6.72	1.12	17	
			116.54	3/8 EHS	A1	T2	9.24	1.39	15
				3/8 EHS	A1b	T2	9.24	1.3	14
3/8 EHS		A1a		T2a	9.24	1.49	16		
1.2D + 1.0Ev + 1.0Eh 180°		56.54	3/8 EHS	A1b	T2a	9.24	1.29	14	
			3/8 EHS	A1a	T2b	9.24	1.48	16	
			3/8 EHS	A1	T2b	9.24	1.39	15	
			171.89	7/16 EHS	A1b	T3	12.48	1.61	13
	7/16 EHS			A1	T3	12.48	1.8	14	
	7/16 EHS	A1a		T3a	12.48	1.98	16		
	1.2D + 1.0Ev + 1.0Eh 210°	56.54	7/16 EHS	A1b	T3a	12.48	1.61	13	
			7/16 EHS	A1	T3b	12.48	1.79	14	
			7/16 EHS	A1a	T3b	12.48	1.98	16	
			116.54	5/16 EHS	A1	25	6.72	1.11	16
5/16 EHS				A1b	25a	6.72	1.07	16	
5/16 EHS		A1a		25b	6.72	1.11	16		
1.2D + 1.0Ev + 1.0Eh 240°		56.54	3/8 EHS	A1b	T2	9.24	1.28	14	
			3/8 EHS	A1	T2	9.24	1.44	16	
			3/8 EHS	A1a	T2a	9.24	1.45	16	
			3/8 EHS	A1b	T2a	9.24	1.28	14	
	3/8 EHS		A1a	T2b	9.24	1.44	16		
	1.2D + 1.0Ev + 1.0Eh 270°	56.54	3/8 EHS	A1	T2b	9.24	1.45	16	
			171.89	7/16 EHS	A1b	T3	12.48	1.58	13
				7/16 EHS	A1	T3	12.48	1.91	15
				7/16 EHS	A1a	T3a	12.48	1.91	15
			1.2D + 1.0Ev + 1.0Eh 300°	56.54	7/16 EHS	A1b	T3a	12.48	1.58
7/16 EHS		A1			T3b	12.48	1.9	15	
7/16 EHS		A1a			T3b	12.48	1.9	15	
116.54		5/16 EHS			A1	25	6.72	1.12	17
		5/16 EHS			A1b	25a	6.72	1.08	16
		5/16 EHS		A1a	25b	6.72	1.08	16	
1.2D + 1.0Ev + 1.0Eh 330°	56.54	3/8 EHS		A1b	T2	9.24	1.34	14	
		3/8 EHS		A1	T2	9.24	1.5	16	
		3/8 EHS		A1a	T2a	9.24	1.34	14	
		3/8 EHS		A1b	T2a	9.24	1.33	14	
		3/8 EHS	A1	T2b	9.24	1.5	16		
	1.2D + 1.0Ev + 1.0Eh 360°	56.54	3/8 EHS	A1a	T2b	9.24	1.33	14	
			171.89	7/16 EHS	A1b	T3	12.48	1.68	13
				7/16 EHS	A1	T3	12.48	2.02	16
				7/16 EHS	A1a	T3a	12.48	1.69	14
			1.2D + 1.0Ev + 1.0Eh 0°	56.54	7/16 EHS	A1b	T3a	12.48	1.69
7/16 EHS		A1			T3b	12.48	2.01	16	
7/16 EHS		A1a			T3b	12.48	1.68	13	
116.54		5/16 EHS			A1	25	6.72	1.12	17
		5/16 EHS			A1b	25a	6.72	1.09	16
		5/16 EHS		A1a	25b	6.72	1.07	16	
1.2D + 1.0Ev + 1.0Eh 45°	56.54	3/8 EHS		A1b	T2	9.24	1.39	15	
		3/8 EHS		A1	T2	9.24	1.48	16	
		3/8 EHS		A1a	T2a	9.24	1.3	14	
		3/8 EHS		A1b	T2a	9.24	1.39	15	
		3/8 EHS	A1a	T2b	9.24	1.29	14		
	1.2D + 1.0Ev + 1.0Eh 90°	56.54	3/8 EHS	A1	T2b	9.24	1.49	16	
			116.54	7/16 EHS	A1b	T3	12.48	1.61	13
				7/16 EHS	A1	T3	12.48	1.8	14
				7/16 EHS	A1a	T3a	12.48	1.98	16
			1.2D + 1.0Ev + 1.0Eh 135°	56.54	7/16 EHS	A1b	T3a	12.48	1.61
7/16 EHS		A1			T3b	12.48	1.79	14	
7/16 EHS		A1a			T3b	12.48	1.98	16	
116.54		5/16 EHS			A1	25	6.72	1.11	16
		5/16 EHS			A1b	25a	6.72	1.07	16
		5/16 EHS		A1a	25b	6.72	1.11	16	
1.2D + 1.0Ev + 1.0Eh 180°	56.54	3/8 EHS		A1b	T2	9.24	1.28	14	
		3/8 EHS		A1	T2	9.24	1.44	16	
		3/8 EHS		A1a	T2a	9.24	1.45	16	
		3/8 EHS		A1b	T2a	9.24	1.28	14	
		3/8 EHS	A1a	T2b	9.24	1.44	16		
	1.2D + 1.0Ev + 1.0Eh 225°	56.54	3/8 EHS	A1	T2b	9.24	1.45	16	
			171.89	7/16 EHS	A1b	T3	12.48	1.58	13
				7/16 EHS	A1	T3	12.48	1.91	15
				7/16 EHS	A1a	T3a	12.48	1.91	15
			1.2D + 1.0Ev + 1.0Eh 270°	56.54	7/16 EHS	A1b	T3a	12.48	1.58
7/16 EHS		A1			T3b	12.48	1.9	15	
7/16 EHS		A1a			T3b	12.48	1.9	15	
116.54		5/16 EHS			A1	25	6.72	1.12	17
		5/16 EHS			A1b	25a	6.72	1.09	16
		5/16 EHS		A1a	25b	6.72	1.07	16	
1.2D + 1.0Ev + 1.0Eh 315°	56.54	3/8 EHS		A1b	T2	9.24	1.39	15	
		3/8 EHS		A1	T2	9.24	1.48	16	
		3/8 EHS		A1a	T2a	9.24	1.3	14	
		3/8 EHS		A1b	T2a	9.24	1.39	15	
		3/8 EHS	A1a	T2b	9.24	1.29	14		
	1.2D + 1.0Ev + 1.0Eh 360°	56.54	3/8 EHS	A1	T2b	9.24	1.49	16	
			116.54	7/16 EHS	A1b	T3	12.48	1.61	13
				7/16 EHS	A1	T3	12.48	1.8	14
				7/16 EHS	A1a	T3a	12.48	1.98	16

ASSET: 98575, PLEASANT DALE  
 CUSTOMER: AT&T MOBILITY

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DETAILED CABLE FORCES

Load Case	Elevation (ft)	Cable	Anchor Node	Tower Node	Available Tension (kip)	Applied Tension (kip)	Use (%)
	171.89	7/16 EHS	A1b	T3	12.48	1.79	14
		7/16 EHS	A1	T3	12.48	1.98	16
		7/16 EHS	A1a	T3a	12.48	1.61	13
		7/16 EHS	A1b	T3a	12.48	1.8	14
		7/16 EHS	A1	T3b	12.48	1.98	16
		7/16 EHS	A1a	T3b	12.48	1.61	13
<b>1.2D + 1.0Ev + 1.0Eh 240°</b>	56.54	5/16 EHS	A1	25	6.72	1.11	16
		5/16 EHS	A1b	25a	6.72	1.11	16
		5/16 EHS	A1a	25b	6.72	1.07	16
	116.54	3/8 EHS	A1b	T2	9.24	1.45	16
		3/8 EHS	A1	T2	9.24	1.44	16
		3/8 EHS	A1a	T2a	9.24	1.28	14
		3/8 EHS	A1b	T2a	9.24	1.44	16
		3/8 EHS	A1a	T2b	9.24	1.28	14
		3/8 EHS	A1	T2b	9.24	1.45	16
	171.89	7/16 EHS	A1b	T3	12.48	1.9	15
		7/16 EHS	A1	T3	12.48	1.9	15
		7/16 EHS	A1a	T3a	12.48	1.58	13
7/16 EHS		A1b	T3a	12.48	1.91	15	
7/16 EHS		A1a	T3b	12.48	1.58	13	
7/16 EHS		A1	T3b	12.48	1.91	15	
<b>1.2D + 1.0Ev + 1.0Eh 300°</b>	56.54	5/16 EHS	A1	25	6.72	1.08	16
		5/16 EHS	A1b	25a	6.72	1.12	17
		5/16 EHS	A1a	25b	6.72	1.08	16
	116.54	3/8 EHS	A1	T2	9.24	1.33	14
		3/8 EHS	A1b	T2	9.24	1.5	16
		3/8 EHS	A1a	T2a	9.24	1.34	14
		3/8 EHS	A1b	T2a	9.24	1.5	16
		3/8 EHS	A1	T2b	9.24	1.34	14
		3/8 EHS	A1a	T2b	9.24	1.33	14
	171.89	7/16 EHS	A1	T3	12.48	1.68	13
		7/16 EHS	A1b	T3	12.48	2.01	16
		7/16 EHS	A1a	T3a	12.48	1.68	13
7/16 EHS		A1b	T3a	12.48	2.02	16	
7/16 EHS		A1a	T3b	12.48	1.69	14	
7/16 EHS		A1	T3b	12.48	1.69	14	
<b>1.2D + 1.0Ev + 1.0Eh 330°</b>	56.54	5/16 EHS	A1	25	6.72	1.07	16
		5/16 EHS	A1b	25a	6.72	1.12	17
		5/16 EHS	A1a	25b	6.72	1.09	16
	116.54	3/8 EHS	A1b	T2	9.24	1.49	16
		3/8 EHS	A1	T2	9.24	1.29	14
		3/8 EHS	A1b	T2a	9.24	1.48	16
		3/8 EHS	A1a	T2a	9.24	1.39	15
		3/8 EHS	A1	T2b	9.24	1.3	14
		3/8 EHS	A1a	T2b	9.24	1.39	15
	171.89	7/16 EHS	A1	T3	12.48	1.61	13
		7/16 EHS	A1b	T3	12.48	1.98	16
		7/16 EHS	A1a	T3a	12.48	1.79	14
7/16 EHS		A1b	T3a	12.48	1.98	16	
7/16 EHS		A1	T3b	12.48	1.61	13	
7/16 EHS		A1a	T3b	12.48	1.8	14	
<b>1.0D + 1.0W Service Normal</b>	56.54	5/16 EHS	A1	25	6.72	0.55	8
		5/16 EHS	A1b	25a	6.72	1.42	21
		5/16 EHS	A1a	25b	6.72	1.42	21
	116.54	3/8 EHS	A1	T2	9.24	0.61	7
		3/8 EHS	A1b	T2	9.24	1.87	20
		3/8 EHS	A1b	T2a	9.24	1.82	20
		3/8 EHS	A1a	T2a	9.24	1.83	20
		3/8 EHS	A1	T2b	9.24	1.87	20
		3/8 EHS	A1a	T2b	9.24	1.87	20

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DETAILED CABLE FORCES

Load Case	Elevation (ft)	Cable	Anchor Node	Tower Node	Available Tension (kip)	Applied Tension (kip)	Use (%)	
	171.89	3/8 EHS	A1	T2b	9.24	0.61	7	
		7/16 EHS	A1	T3	12.48	0.81	7	
		7/16 EHS	A1b	T3	12.48	2.44	20	
		7/16 EHS	A1b	T3a	12.48	2.35	19	
		7/16 EHS	A1a	T3a	12.48	2.35	19	
		7/16 EHS	A1	T3b	12.48	0.81	6	
		7/16 EHS	A1a	T3b	12.48	2.44	20	
<b>1.0D + 1.0W Service 60°</b>	56.54	5/16 EHS	A1	25	6.72	0.84	12	
		5/16 EHS	A1b	25a	6.72	0.82	12	
		5/16 EHS	A1a	25b	6.72	1.74	26	
	116.54	3/8 EHS	A1b	T2	9.24	1.05	11	
		3/8 EHS	A1	T2	9.24	1.1	12	
		3/8 EHS	A1a	T2a	9.24	2.29	25	
		3/8 EHS	A1b	T2a	9.24	1.04	11	
		3/8 EHS	A1a	T2b	9.24	2.34	25	
		3/8 EHS	A1	T2b	9.24	1.01	11	
		7/16 EHS	A1b	T3	12.48	1.48	12	
	171.89	7/16 EHS	A1	T3	12.48	1.49	12	
		7/16 EHS	A1a	T3a	12.48	2.97	24	
		7/16 EHS	A1b	T3a	12.48	1.41	11	
		7/16 EHS	A1a	T3b	12.48	3	24	
7/16 EHS		A1	T3b	12.48	1.36	11		
<b>1.0D + 1.0W Service 90°</b>		56.54	5/16 EHS	A1	25	6.72	1.13	17
			5/16 EHS	A1b	25a	6.72	0.6	9
	5/16 EHS		A1a	25b	6.72	1.65	25	
	116.54	3/8 EHS	A1	T2	9.24	1.51	16	
		3/8 EHS	A1b	T2	9.24	0.71	8	
		3/8 EHS	A1a	T2a	9.24	2.17	23	
		3/8 EHS	A1b	T2a	9.24	0.73	8	
		3/8 EHS	A1a	T2b	9.24	2.21	24	
		3/8 EHS	A1	T2b	9.24	1.4	15	
		7/16 EHS	A1	T3	12.48	1.99	16	
	171.89	7/16 EHS	A1b	T3	12.48	1.04	8	
		7/16 EHS	A1a	T3a	12.48	2.81	23	
		7/16 EHS	A1b	T3a	12.48	1.01	8	
		7/16 EHS	A1a	T3b	12.48	2.8	22	
7/16 EHS		A1	T3b	12.48	1.83	15		
<b>1.0D + 1.0W Service 120°</b>		56.54	5/16 EHS	A1	25	6.72	1.44	21
			5/16 EHS	A1b	25a	6.72	0.53	8
	5/16 EHS		A1a	25b	6.72	1.43	21	
	116.54	3/8 EHS	A1b	T2	9.24	0.58	6	
		3/8 EHS	A1	T2	9.24	1.89	21	
		3/8 EHS	A1a	T2a	9.24	1.86	20	
		3/8 EHS	A1b	T2a	9.24	0.62	7	
		3/8 EHS	A1a	T2b	9.24	1.86	20	
		3/8 EHS	A1	T2b	9.24	1.8	19	
		7/16 EHS	A1b	T3	12.48	0.82	7	
	171.89	7/16 EHS	A1	T3	12.48	2.46	20	
		7/16 EHS	A1a	T3a	12.48	2.41	19	
		7/16 EHS	A1b	T3a	12.48	0.85	7	
		7/16 EHS	A1	T3b	12.48	2.32	19	
7/16 EHS		A1a	T3b	12.48	2.35	19		
<b>1.0D + 1.0W Service 180°</b>		56.54	5/16 EHS	A1	25	6.72	1.74	26
			5/16 EHS	A1b	25a	6.72	0.83	12
	5/16 EHS		A1a	25b	6.72	0.83	12	
	116.54	3/8 EHS	A1b	T2	9.24	1.04	11	
		3/8 EHS	A1	T2	9.24	2.3	25	
		3/8 EHS	A1a	T2a	9.24	1.08	12	
		3/8 EHS	A1b	T2a	9.24	1.08	12	

ASSET: 98575, PLEASANT DALE  
 CUSTOMER: AT&T MOBILITY

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DETAILED CABLE FORCES

Load Case	Elevation (ft)	Cable	Anchor Node	Tower Node	Available Tension (kip)	Applied Tension (kip)	Use (%)
		3/8 EHS	A1a	T2b	9.24	1.03	11
		3/8 EHS	A1	T2b	9.24	2.3	25
	171.89	7/16 EHS	A1b	T3	12.48	1.38	11
		7/16 EHS	A1	T3	12.48	3	24
		7/16 EHS	A1a	T3a	12.48	1.47	12
		7/16 EHS	A1b	T3a	12.48	1.47	12
		7/16 EHS	A1a	T3b	12.48	1.39	11
		7/16 EHS	A1	T3b	12.48	2.99	24
<b>1.0D + 1.0W Service 210°</b>	56.54	5/16 EHS	A1	25	6.72	1.66	25
		5/16 EHS	A1b	25a	6.72	1.13	17
		5/16 EHS	A1a	25b	6.72	0.6	9
	116.54	3/8 EHS	A1b	T2	9.24	1.44	16
		3/8 EHS	A1	T2	9.24	2.14	23
		3/8 EHS	A1a	T2a	9.24	0.75	8
		3/8 EHS	A1b	T2a	9.24	1.47	16
		3/8 EHS	A1a	T2b	9.24	0.7	8
		3/8 EHS	A1	T2b	9.24	2.2	24
	171.89	7/16 EHS	A1	T3	12.48	2.79	22
		7/16 EHS	A1b	T3	12.48	1.86	15
		7/16 EHS	A1a	T3a	12.48	1.05	8
		7/16 EHS	A1b	T3a	12.48	1.95	16
		7/16 EHS	A1	T3b	12.48	2.85	23
		7/16 EHS	A1a	T3b	12.48	0.99	8
<b>1.0D + 1.0W Service 240°</b>	56.54	5/16 EHS	A1	25	6.72	1.44	21
		5/16 EHS	A1b	25a	6.72	1.43	21
		5/16 EHS	A1a	25b	6.72	0.53	8
	116.54	3/8 EHS	A1b	T2	9.24	1.86	20
		3/8 EHS	A1	T2	9.24	1.8	19
		3/8 EHS	A1a	T2a	9.24	0.62	7
		3/8 EHS	A1b	T2a	9.24	1.86	20
		3/8 EHS	A1	T2b	9.24	1.9	21
		3/8 EHS	A1a	T2b	9.24	0.57	6
	171.89	7/16 EHS	A1	T3	12.48	2.33	19
		7/16 EHS	A1b	T3	12.48	2.34	19
		7/16 EHS	A1a	T3a	12.48	0.84	7
		7/16 EHS	A1b	T3a	12.48	2.41	19
		7/16 EHS	A1	T3b	12.48	2.45	20
		7/16 EHS	A1a	T3b	12.48	0.82	7
<b>1.0D + 1.0W Service 300°</b>	56.54	5/16 EHS	A1	25	6.72	0.84	12
		5/16 EHS	A1b	25a	6.72	1.74	26
		5/16 EHS	A1a	25b	6.72	0.82	12
	116.54	3/8 EHS	A1b	T2	9.24	2.35	25
		3/8 EHS	A1	T2	9.24	1.01	11
		3/8 EHS	A1a	T2a	9.24	1.05	11
		3/8 EHS	A1b	T2a	9.24	2.29	25
		3/8 EHS	A1a	T2b	9.24	1.05	11
		3/8 EHS	A1	T2b	9.24	1.1	12
	171.89	7/16 EHS	A1b	T3	12.48	2.99	24
		7/16 EHS	A1	T3	12.48	1.36	11
		7/16 EHS	A1a	T3a	12.48	1.41	11
		7/16 EHS	A1b	T3a	12.48	2.97	24
		7/16 EHS	A1	T3b	12.48	1.48	12
		7/16 EHS	A1a	T3b	12.48	1.48	12
<b>1.0D + 1.0W Service 330°</b>	56.54	5/16 EHS	A1	25	6.72	0.62	9
		5/16 EHS	A1b	25a	6.72	1.65	25
		5/16 EHS	A1a	25b	6.72	1.12	17
	116.54	3/8 EHS	A1b	T2	9.24	2.21	24
		3/8 EHS	A1	T2	9.24	0.7	8
		3/8 EHS	A1a	T2a	9.24	1.43	15

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DETAILED CABLE FORCES

Load Case	Elevation (ft)	Cable	Anchor Node	Tower Node	Available Tension (kip)	Applied Tension (kip)	Use (%)
		3/8 EHS	A1b	T2a	9.24	2.15	23
		3/8 EHS	A1a	T2b	9.24	1.46	16
		3/8 EHS	A1	T2b	9.24	0.76	8
	171.89	7/16 EHS	A1b	T3	12.48	2.84	23
		7/16 EHS	A1	T3	12.48	0.96	8
		7/16 EHS	A1a	T3a	12.48	1.88	15
		7/16 EHS	A1b	T3a	12.48	2.79	22
		7/16 EHS	A1a	T3b	12.48	1.97	16
		7/16 EHS	A1	T3b	12.48	1.04	8

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**MAXIMUM CABLE FORCES SUMMARY**

Load Case	Elevation (ft)	Cable	Anchor Node	Tower Node	Available Tension (kip)	Applied Tension (kip)	Use (%)
1.2D + 1.0W 60°	56.54	5/16 EHS	A1a	25b	6.72	3.84	57
1.2D + 1.0W 60°	116.54	3/8 EHS	A1a	T2b	9.24	5.54	60
1.2D + 1.0W 210°	171.89	7/16 EHS	A1	T3b	12.48	7.09	57

**MAXIMUM TORQUE ARM STRESS SUMMARY**

Load Case	Elevation (ft)	Member	Type	Compression (%)	Tension (%)
1.2D + 1.0W 300°	57.00	2X2X0.25	Horiz	0	7.1
1.2D + 1.0W 240°	117.00	C15 x 33.9	Torque Arm	0	1.1
1.2D + 1.0W 120°	173.00	C15 x 33.9	Torque Arm	0	1

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DEFLECTIONS AND ROTATIONS

Load Case	Elevation (ft)	Deflection (ft)	Twist (deg)	Sway (deg)	Resultant (deg)
1.0D + 1.0W Service 330° 60 mph Wind with No Ice	76.54	0.0915	-0.0336	0.0440	0.0553
1.0D + 1.0W Service 330° 60 mph Wind with No Ice	93.27	0.1005	-0.0287	0.0249	0.038
1.0D + 1.0W Service 330° 60 mph Wind with No Ice	103.46	0.1036	-0.0270	0.0190	0.033
1.0D + 1.0W Service 330° 60 mph Wind with No Ice	116.54	0.1074	-0.0262	0.1176	0.1205
1.0D + 1.0W Service 330° 60 mph Wind with No Ice	146.73	0.1279	-0.0113	0.0308	0.0328
1.0D + 1.0W Service 330° 60 mph Wind with No Ice	156.54	0.1312	-0.0072	0.0183	0.0196
1.0D + 1.0W Service 330° 60 mph Wind with No Ice	171.89	0.1325	-0.0015	0.2113	0.2113
1.0D + 1.0W Service 330° 60 mph Wind with No Ice	175.19	0.1335	-0.0016	0.0711	0.0712
1.0D + 1.0W Service 330° 60 mph Wind with No Ice	179.81	0.1348	-0.0018	0.2243	0.2243
1.0D + 1.0W Service 300° 60 mph Wind with No Ice	76.54	0.0981	-0.0834	0.0495	0.097
1.0D + 1.0W Service 300° 60 mph Wind with No Ice	93.27	0.1083	-0.0742	0.0224	0.0775
1.0D + 1.0W Service 300° 60 mph Wind with No Ice	103.46	0.1125	-0.0692	0.0240	0.0732
1.0D + 1.0W Service 300° 60 mph Wind with No Ice	116.54	0.1173	-0.0632	0.1171	0.1331
1.0D + 1.0W Service 300° 60 mph Wind with No Ice	146.73	0.1408	-0.0452	0.0365	0.0581
1.0D + 1.0W Service 300° 60 mph Wind with No Ice	156.54	0.145	-0.0397	0.0220	0.0452
1.0D + 1.0W Service 300° 60 mph Wind with No Ice	171.89	0.1468	-0.0317	0.2212	0.2234
1.0D + 1.0W Service 300° 60 mph Wind with No Ice	175.19	0.1482	-0.0319	0.1159	0.1202
1.0D + 1.0W Service 300° 60 mph Wind with No Ice	179.81	0.1493	-0.0321	0.2381	0.2403
1.0D + 1.0W Service 240° 60 mph Wind with No Ice	76.54	0.0935	-0.0786	0.0382	0.087
1.0D + 1.0W Service 240° 60 mph Wind with No Ice	93.27	0.0998	-0.0691	0.0077	0.0695
1.0D + 1.0W Service 240° 60 mph Wind with No Ice	103.46	0.1011	-0.0645	0.0091	0.0651
1.0D + 1.0W Service 240° 60 mph Wind with No Ice	116.54	0.1017	-0.0590	0.1202	0.1339
1.0D + 1.0W Service 240° 60 mph Wind with No Ice	146.73	0.1147	-0.0408	0.0150	0.0432
1.0D + 1.0W Service 240° 60 mph Wind with No Ice	156.54	0.1153	-0.0354	0.0043	0.0355
1.0D + 1.0W Service 240° 60 mph Wind with No Ice	171.89	0.1113	-0.0274	0.2118	0.2135
1.0D + 1.0W Service 240° 60 mph Wind with No Ice	175.19	0.1114	-0.0279	0.0980	0.1018
1.0D + 1.0W Service 240° 60 mph Wind with No Ice	179.81	0.1108	-0.0279	0.2499	0.2514
1.0D + 1.0W Service 210° 60 mph Wind with No Ice	76.54	0.093	-0.0343	0.0427	0.0548
1.0D + 1.0W Service 210° 60 mph Wind with No Ice	93.27	0.1012	-0.0290	0.0243	0.0378
1.0D + 1.0W Service 210° 60 mph Wind with No Ice	103.46	0.1037	-0.0274	0.0177	0.0326
1.0D + 1.0W Service 210° 60 mph Wind with No Ice	116.54	0.1069	-0.0260	0.1191	0.1219
1.0D + 1.0W Service 210° 60 mph Wind with No Ice	146.73	0.1268	-0.0112	0.0313	0.0332
1.0D + 1.0W Service 210° 60 mph Wind with No Ice	156.54	0.1302	-0.0070	0.0203	0.0213
1.0D + 1.0W Service 210° 60 mph Wind with No Ice	171.89	0.1317	-0.0008	0.2055	0.2055
1.0D + 1.0W Service 210° 60 mph Wind with No Ice	175.19	0.1326	-0.0011	0.0579	0.0579
1.0D + 1.0W Service 210° 60 mph Wind with No Ice	179.81	0.1341	-0.0010	0.2393	0.2393
1.0D + 1.0W Service 180° 60 mph Wind with No Ice	76.54	0.0954	-0.0052	0.0473	0.0476
1.0D + 1.0W Service 180° 60 mph Wind with No Ice	93.27	0.1054	-0.0044	0.0316	0.0319
1.0D + 1.0W Service 180° 60 mph Wind with No Ice	103.46	0.1086	-0.0047	0.0224	0.0229
1.0D + 1.0W Service 180° 60 mph Wind with No Ice	116.54	0.1135	-0.0051	0.1179	0.118
1.0D + 1.0W Service 180° 60 mph Wind with No Ice	146.73	0.138	0.0010	0.0390	0.039
1.0D + 1.0W Service 180° 60 mph Wind with No Ice	156.54	0.1426	0.0032	0.0271	0.0273
1.0D + 1.0W Service 180° 60 mph Wind with No Ice	171.89	0.1472	0.0066	0.2074	0.2075
1.0D + 1.0W Service 180° 60 mph Wind with No Ice	175.19	0.1485	0.0066	0.0167	0.018
1.0D + 1.0W Service 180° 60 mph Wind with No Ice	179.81	0.151	0.0067	0.2365	0.2366
1.0D + 1.0W Service 120° 60 mph Wind with No Ice	76.54	0.0931	0.0678	0.0382	0.0774
1.0D + 1.0W Service 120° 60 mph Wind with No Ice	93.27	0.1011	0.0588	0.0084	0.0594
1.0D + 1.0W Service 120° 60 mph Wind with No Ice	103.46	0.1007	0.0542	0.0078	0.0547
1.0D + 1.0W Service 120° 60 mph Wind with No Ice	116.54	0.1015	0.0492	0.1197	0.1294
1.0D + 1.0W Service 120° 60 mph Wind with No Ice	146.73	0.1153	0.0430	0.0135	0.045
1.0D + 1.0W Service 120° 60 mph Wind with No Ice	156.54	0.115	0.0414	0.0050	0.0417
1.0D + 1.0W Service 120° 60 mph Wind with No Ice	171.89	0.1116	0.0394	0.2113	0.2148
1.0D + 1.0W Service 120° 60 mph Wind with No Ice	175.19	0.1118	0.0396	0.0919	0.1001
1.0D + 1.0W Service 120° 60 mph Wind with No Ice	179.81	0.1113	0.0396	0.2492	0.2524
1.0D + 1.0W Service 90° 60 mph Wind with No Ice	76.54	0.0959	0.0953	0.0445	0.105
1.0D + 1.0W Service 90° 60 mph Wind with No Ice	93.27	0.1063	0.0844	0.0109	0.0851
1.0D + 1.0W Service 90° 60 mph Wind with No Ice	103.46	0.1074	0.0784	0.0213	0.0813
1.0D + 1.0W Service 90° 60 mph Wind with No Ice	116.54	0.1105	0.0714	0.1182	0.138
1.0D + 1.0W Service 90° 60 mph Wind with No Ice	146.73	0.1307	0.0652	0.0264	0.0703

ASSET: 98575, PLEASANT DALE  
 CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-I  
 PROJECT: 15440745\_C3\_03

DEFLECTIONS AND ROTATIONS

Load Case	Elevation (ft)	Deflection (ft)	Twist (deg)	Sway (deg)	Resultant (deg)
1.0D + 1.0W Service 90° 60 mph Wind with No Ice	156.54	0.1323	0.0636	0.0129	0.0648
1.0D + 1.0W Service 90° 60 mph Wind with No Ice	171.89	0.132	0.0612	0.2207	0.2289
1.0D + 1.0W Service 90° 60 mph Wind with No Ice	175.19	0.1329	0.0614	0.1187	0.1336
1.0D + 1.0W Service 90° 60 mph Wind with No Ice	179.81	0.1331	0.0615	0.2453	0.2528
1.0D + 1.0W Service 60° 60 mph Wind with No Ice	76.54	0.0977	0.0715	0.0494	0.0862
1.0D + 1.0W Service 60° 60 mph Wind with No Ice	93.27	0.1095	0.0625	0.0222	0.0663
1.0D + 1.0W Service 60° 60 mph Wind with No Ice	103.46	0.1122	0.0580	0.0284	0.0646
1.0D + 1.0W Service 60° 60 mph Wind with No Ice	116.54	0.117	0.0531	0.1171	0.1286
1.0D + 1.0W Service 60° 60 mph Wind with No Ice	146.73	0.1413	0.0476	0.0351	0.0589
1.0D + 1.0W Service 60° 60 mph Wind with No Ice	156.54	0.1447	0.0463	0.0211	0.0507
1.0D + 1.0W Service 60° 60 mph Wind with No Ice	171.89	0.1472	0.0446	0.2212	0.2256
1.0D + 1.0W Service 60° 60 mph Wind with No Ice	175.19	0.1485	0.0448	0.1114	0.12
1.0D + 1.0W Service 60° 60 mph Wind with No Ice	179.81	0.1497	0.0450	0.2350	0.2392
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	76.54	0.0882	-0.0051	0.0381	0.0384
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	93.27	0.0954	-0.0046	0.0218	0.0223
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	103.46	0.0968	-0.0046	0.0127	0.0135
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	116.54	0.0985	-0.0051	0.1180	0.1181
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	146.73	0.1135	0.0008	0.0179	0.018
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	156.54	0.1145	0.0029	0.0066	0.0071
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	171.89	0.1132	0.0061	0.1972	0.1973
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	175.19	0.1134	0.0061	0.0210	0.0218
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	179.81	0.1141	0.0061	0.2103	0.2104
1.2D + 1.0Ev + 1.0Eh 330° Seismic	76.54	0.0063	-0.0039	0.0099	0.0106
1.2D + 1.0Ev + 1.0Eh 330° Seismic	93.27	0.0087	-0.0029	0.0110	0.0114
1.2D + 1.0Ev + 1.0Eh 330° Seismic	103.46	0.0113	-0.0036	0.0134	0.0139
1.2D + 1.0Ev + 1.0Eh 330° Seismic	116.54	0.0147	-0.0053	0.1078	0.1079
1.2D + 1.0Ev + 1.0Eh 330° Seismic	146.73	0.0254	0.0003	0.0181	0.0181
1.2D + 1.0Ev + 1.0Eh 330° Seismic	156.54	0.0279	0.0022	0.0163	0.0165
1.2D + 1.0Ev + 1.0Eh 330° Seismic	171.89	0.0312	0.0061	0.1538	0.1539
1.2D + 1.0Ev + 1.0Eh 330° Seismic	175.19	0.032	0.0059	0.0256	0.0262
1.2D + 1.0Ev + 1.0Eh 330° Seismic	179.81	0.0333	0.0059	0.0147	0.0158
1.2D + 1.0Ev + 1.0Eh 300° Seismic	76.54	0.0063	-0.0039	0.0102	0.0109
1.2D + 1.0Ev + 1.0Eh 300° Seismic	93.27	0.0084	-0.0029	0.0107	0.0111
1.2D + 1.0Ev + 1.0Eh 300° Seismic	103.46	0.0114	-0.0036	0.0127	0.0132
1.2D + 1.0Ev + 1.0Eh 300° Seismic	116.54	0.0147	-0.0053	0.1041	0.1043
1.2D + 1.0Ev + 1.0Eh 300° Seismic	146.73	0.0251	0.0003	0.0179	0.0179
1.2D + 1.0Ev + 1.0Eh 300° Seismic	156.54	0.0277	0.0022	0.0160	0.0161
1.2D + 1.0Ev + 1.0Eh 300° Seismic	171.89	0.0309	0.0061	0.1542	0.1543
1.2D + 1.0Ev + 1.0Eh 300° Seismic	175.19	0.0317	0.0059	0.0275	0.0281
1.2D + 1.0Ev + 1.0Eh 300° Seismic	179.81	0.033	0.0059	0.0152	0.0163
1.2D + 1.0Ev + 1.0Eh 240° Seismic	76.54	0.0063	-0.0039	0.0103	0.011
1.2D + 1.0Ev + 1.0Eh 240° Seismic	93.27	0.0085	-0.0029	0.0109	0.0113
1.2D + 1.0Ev + 1.0Eh 240° Seismic	103.46	0.0114	-0.0036	0.0126	0.0131
1.2D + 1.0Ev + 1.0Eh 240° Seismic	116.54	0.0148	-0.0053	0.1091	0.1092
1.2D + 1.0Ev + 1.0Eh 240° Seismic	146.73	0.0255	0.0003	0.0183	0.0183
1.2D + 1.0Ev + 1.0Eh 240° Seismic	156.54	0.0282	0.0022	0.0169	0.017
1.2D + 1.0Ev + 1.0Eh 240° Seismic	171.89	0.0314	0.0061	0.1532	0.1533
1.2D + 1.0Ev + 1.0Eh 240° Seismic	175.19	0.0323	0.0059	0.0270	0.0277
1.2D + 1.0Ev + 1.0Eh 240° Seismic	179.81	0.0336	0.0059	0.0134	0.0146
1.2D + 1.0Ev + 1.0Eh 210° Seismic	76.54	0.0063	-0.0039	0.0099	0.0106
1.2D + 1.0Ev + 1.0Eh 210° Seismic	93.27	0.0087	-0.0029	0.0110	0.0113
1.2D + 1.0Ev + 1.0Eh 210° Seismic	103.46	0.0113	-0.0036	0.0126	0.0131
1.2D + 1.0Ev + 1.0Eh 210° Seismic	116.54	0.0147	-0.0053	0.1078	0.1079
1.2D + 1.0Ev + 1.0Eh 210° Seismic	146.73	0.0254	0.0003	0.0181	0.0181
1.2D + 1.0Ev + 1.0Eh 210° Seismic	156.54	0.0279	0.0022	0.0163	0.0165
1.2D + 1.0Ev + 1.0Eh 210° Seismic	171.89	0.0312	0.0061	0.1538	0.1539
1.2D + 1.0Ev + 1.0Eh 210° Seismic	175.19	0.032	0.0059	0.0256	0.0262
1.2D + 1.0Ev + 1.0Eh 210° Seismic	179.81	0.0333	0.0059	0.0147	0.0158
1.2D + 1.0Ev + 1.0Eh 180° Seismic	76.54	0.0063	-0.0039	0.0102	0.0109

ASSET: 98575, PLEASANT DALE  
 CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-I  
 PROJECT: 15440745\_C3\_03

DEFLECTIONS AND ROTATIONS

Load Case	Elevation (ft)	Deflection (ft)	Twist (deg)	Sway (deg)	Resultant (deg)
1.2D + 1.0Ev + 1.0Eh 180° Seismic	93.27	0.0091	-0.0029	0.0111	0.0115
1.2D + 1.0Ev + 1.0Eh 180° Seismic	103.46	0.0112	-0.0036	0.0128	0.0133
1.2D + 1.0Ev + 1.0Eh 180° Seismic	116.54	0.0147	-0.0053	0.1041	0.1043
1.2D + 1.0Ev + 1.0Eh 180° Seismic	146.73	0.0251	0.0003	0.0179	0.0179
1.2D + 1.0Ev + 1.0Eh 180° Seismic	156.54	0.0277	0.0022	0.0160	0.0161
1.2D + 1.0Ev + 1.0Eh 180° Seismic	171.89	0.0309	0.0061	0.1542	0.1543
1.2D + 1.0Ev + 1.0Eh 180° Seismic	175.19	0.0317	0.0059	0.0275	0.0281
1.2D + 1.0Ev + 1.0Eh 180° Seismic	179.81	0.033	0.0059	0.0152	0.0163
1.2D + 1.0Ev + 1.0Eh 120° Seismic	76.54	0.0063	-0.0039	0.0103	0.011
1.2D + 1.0Ev + 1.0Eh 120° Seismic	93.27	0.0098	-0.0029	0.0118	0.0121
1.2D + 1.0Ev + 1.0Eh 120° Seismic	103.46	0.0111	-0.0036	0.0140	0.0144
1.2D + 1.0Ev + 1.0Eh 120° Seismic	116.54	0.0148	-0.0053	0.1091	0.1092
1.2D + 1.0Ev + 1.0Eh 120° Seismic	146.73	0.0255	0.0003	0.0183	0.0183
1.2D + 1.0Ev + 1.0Eh 120° Seismic	156.54	0.0282	0.0022	0.0169	0.017
1.2D + 1.0Ev + 1.0Eh 120° Seismic	171.89	0.0314	0.0061	0.1532	0.1533
1.2D + 1.0Ev + 1.0Eh 120° Seismic	175.19	0.0323	0.0059	0.0270	0.0277
1.2D + 1.0Ev + 1.0Eh 120° Seismic	179.81	0.0336	0.0059	0.0134	0.0147
1.2D + 1.0Ev + 1.0Eh 90° Seismic	76.54	0.0063	-0.0039	0.0099	0.0106
1.2D + 1.0Ev + 1.0Eh 90° Seismic	93.27	0.0098	-0.0029	0.0117	0.0121
1.2D + 1.0Ev + 1.0Eh 90° Seismic	103.46	0.011	-0.0036	0.0142	0.0147
1.2D + 1.0Ev + 1.0Eh 90° Seismic	116.54	0.0147	-0.0053	0.1078	0.1079
1.2D + 1.0Ev + 1.0Eh 90° Seismic	146.73	0.0254	0.0003	0.0181	0.0181
1.2D + 1.0Ev + 1.0Eh 90° Seismic	156.54	0.0279	0.0022	0.0163	0.0165
1.2D + 1.0Ev + 1.0Eh 90° Seismic	171.89	0.0312	0.0061	0.1538	0.1539
1.2D + 1.0Ev + 1.0Eh 90° Seismic	175.19	0.032	0.0059	0.0256	0.0263
1.2D + 1.0Ev + 1.0Eh 90° Seismic	179.81	0.0333	0.0059	0.0147	0.0158
1.2D + 1.0Ev + 1.0Eh 60° Seismic	76.54	0.0063	-0.0039	0.0102	0.0109
1.2D + 1.0Ev + 1.0Eh 60° Seismic	93.27	0.0097	-0.0029	0.0116	0.0119
1.2D + 1.0Ev + 1.0Eh 60° Seismic	103.46	0.011	-0.0036	0.0143	0.0148
1.2D + 1.0Ev + 1.0Eh 60° Seismic	116.54	0.0147	-0.0053	0.1041	0.1043
1.2D + 1.0Ev + 1.0Eh 60° Seismic	146.73	0.0251	0.0003	0.0179	0.0179
1.2D + 1.0Ev + 1.0Eh 60° Seismic	156.54	0.0277	0.0022	0.0160	0.0161
1.2D + 1.0Ev + 1.0Eh 60° Seismic	171.89	0.0309	0.0061	0.1542	0.1543
1.2D + 1.0Ev + 1.0Eh 60° Seismic	175.19	0.0317	0.0059	0.0275	0.0281
1.2D + 1.0Ev + 1.0Eh 60° Seismic	179.81	0.033	0.0059	0.0152	0.0163
1.2D + 1.0Ev + 1.0Eh Normal Seismic	76.54	0.0066	-0.0042	0.0105	0.0113
1.2D + 1.0Ev + 1.0Eh Normal Seismic	93.27	0.0095	-0.0033	0.0114	0.0119
1.2D + 1.0Ev + 1.0Eh Normal Seismic	103.46	0.0116	-0.0038	0.0142	0.0147
1.2D + 1.0Ev + 1.0Eh Normal Seismic	116.54	0.0152	-0.0052	0.1090	0.1092
1.2D + 1.0Ev + 1.0Eh Normal Seismic	146.73	0.0259	0.0004	0.0183	0.0183
1.2D + 1.0Ev + 1.0Eh Normal Seismic	156.54	0.0286	0.0024	0.0168	0.017
1.2D + 1.0Ev + 1.0Eh Normal Seismic	171.89	0.0318	0.0062	0.1534	0.1535
1.2D + 1.0Ev + 1.0Eh Normal Seismic	175.19	0.0327	0.0061	0.0270	0.0276
1.2D + 1.0Ev + 1.0Eh Normal Seismic	179.81	0.034	0.0060	0.0133	0.0146
1.2D + 1.0Di + 1.0Wi 330° 51 mph Wind with 1.14" Radial Ice	76.54	0.2072	0.0064	0.0667	0.0669
1.2D + 1.0Di + 1.0Wi 330° 51 mph Wind with 1.14" Radial Ice	93.27	0.2147	0.0067	0.0269	0.0277
1.2D + 1.0Di + 1.0Wi 330° 51 mph Wind with 1.14" Radial Ice	103.46	0.214	0.0084	0.0389	0.0398
1.2D + 1.0Di + 1.0Wi 330° 51 mph Wind with 1.14" Radial Ice	116.54	0.2088	0.0118	0.3144	0.3146
1.2D + 1.0Di + 1.0Wi 330° 51 mph Wind with 1.14" Radial Ice	146.73	0.2013	0.0344	0.0839	0.0906
1.2D + 1.0Di + 1.0Wi 330° 51 mph Wind with 1.14" Radial Ice	156.54	0.1919	0.0424	0.0995	0.1081
1.2D + 1.0Di + 1.0Wi 330° 51 mph Wind with 1.14" Radial Ice	171.89	0.1761	0.0555	0.5072	0.51
1.2D + 1.0Di + 1.0Wi 330° 51 mph Wind with 1.14" Radial Ice	175.19	0.1733	0.0559	0.1303	0.1412
1.2D + 1.0Di + 1.0Wi 330° 51 mph Wind with 1.14" Radial Ice	179.81	0.1697	0.0564	0.1257	0.1378
1.2D + 1.0Di + 1.0Wi 300° 51 mph Wind with 1.14" Radial Ice	76.54	0.2279	-0.0994	0.0880	0.1328
1.2D + 1.0Di + 1.0Wi 300° 51 mph Wind with 1.14" Radial Ice	93.27	0.2433	-0.0920	0.0306	0.0969
1.2D + 1.0Di + 1.0Wi 300° 51 mph Wind with 1.14" Radial Ice	103.46	0.2484	-0.0876	0.0195	0.0898
1.2D + 1.0Di + 1.0Wi 300° 51 mph Wind with 1.14" Radial Ice	116.54	0.2497	-0.0815	0.2937	0.3048
1.2D + 1.0Di + 1.0Wi 300° 51 mph Wind with 1.14" Radial Ice	146.73	0.2579	-0.0570	0.0149	0.0589
1.2D + 1.0Di + 1.0Wi 300° 51 mph Wind with 1.14" Radial Ice	156.54	0.2548	-0.0494	0.0304	0.0576

ASSET: 98575, PLEASANT DALE  
 CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-I  
 PROJECT: 15440745\_C3\_03

DEFLECTIONS AND ROTATIONS

Load Case	Elevation (ft)	Deflection (ft)	Twist (deg)	Sway (deg)	Resultant (deg)
1.2D + 1.0Di + 1.0Wi 300° 51 mph Wind with 1.14" Radial Ice	171.89	0.2413	-0.0383	0.4936	0.495
1.2D + 1.0Di + 1.0Wi 300° 51 mph Wind with 1.14" Radial Ice	175.19	0.2391	-0.0371	0.0649	0.0747
1.2D + 1.0Di + 1.0Wi 300° 51 mph Wind with 1.14" Radial Ice	179.81	0.2353	-0.0367	0.2454	0.248
1.2D + 1.0Di + 1.0Wi 240° 51 mph Wind with 1.14" Radial Ice	76.54	0.2146	-0.0979	0.0309	0.1022
1.2D + 1.0Di + 1.0Wi 240° 51 mph Wind with 1.14" Radial Ice	93.27	0.2095	-0.0906	0.0576	0.1073
1.2D + 1.0Di + 1.0Wi 240° 51 mph Wind with 1.14" Radial Ice	103.46	0.1985	-0.0867	0.0774	0.1162
1.2D + 1.0Di + 1.0Wi 240° 51 mph Wind with 1.14" Radial Ice	116.54	0.1761	-0.0811	0.3486	0.3579
1.2D + 1.0Di + 1.0Wi 240° 51 mph Wind with 1.14" Radial Ice	146.73	0.1192	-0.0557	0.1455	0.1558
1.2D + 1.0Di + 1.0Wi 240° 51 mph Wind with 1.14" Radial Ice	156.54	0.0929	-0.0481	0.1687	0.175
1.2D + 1.0Di + 1.0Wi 240° 51 mph Wind with 1.14" Radial Ice	171.89	0.0422	-0.0379	0.5400	0.5411
1.2D + 1.0Di + 1.0Wi 240° 51 mph Wind with 1.14" Radial Ice	175.19	0.032	-0.0396	0.1165	0.123
1.2D + 1.0Di + 1.0Wi 240° 51 mph Wind with 1.14" Radial Ice	179.81	0.0167	-0.0412	0.3530	0.3553
1.2D + 1.0Di + 1.0Wi 210° 51 mph Wind with 1.14" Radial Ice	76.54	0.2134	0.0082	0.0623	0.0627
1.2D + 1.0Di + 1.0Wi 210° 51 mph Wind with 1.14" Radial Ice	93.27	0.2194	0.0089	0.0446	0.0455
1.2D + 1.0Di + 1.0Wi 210° 51 mph Wind with 1.14" Radial Ice	103.46	0.216	0.0098	0.0500	0.051
1.2D + 1.0Di + 1.0Wi 210° 51 mph Wind with 1.14" Radial Ice	116.54	0.2077	0.0133	0.3222	0.3225
1.2D + 1.0Di + 1.0Wi 210° 51 mph Wind with 1.14" Radial Ice	146.73	0.1976	0.0361	0.0922	0.0989
1.2D + 1.0Di + 1.0Wi 210° 51 mph Wind with 1.14" Radial Ice	156.54	0.1883	0.0441	0.1084	0.117
1.2D + 1.0Di + 1.0Wi 210° 51 mph Wind with 1.14" Radial Ice	171.89	0.1739	0.0569	0.5058	0.5086
1.2D + 1.0Di + 1.0Wi 210° 51 mph Wind with 1.14" Radial Ice	175.19	0.1713	0.0537	0.0800	0.096
1.2D + 1.0Di + 1.0Wi 210° 51 mph Wind with 1.14" Radial Ice	179.81	0.1687	0.0524	0.2368	0.2425
1.2D + 1.0Di + 1.0Wi 180° 51 mph Wind with 1.14" Radial Ice	76.54	0.2282	-0.0147	0.0832	0.0845
1.2D + 1.0Di + 1.0Wi 180° 51 mph Wind with 1.14" Radial Ice	93.27	0.2434	-0.0127	0.0294	0.032
1.2D + 1.0Di + 1.0Wi 180° 51 mph Wind with 1.14" Radial Ice	103.46	0.2452	-0.0126	0.0091	0.0156
1.2D + 1.0Di + 1.0Wi 180° 51 mph Wind with 1.14" Radial Ice	116.54	0.245	-0.0115	0.2989	0.2991
1.2D + 1.0Di + 1.0Wi 180° 51 mph Wind with 1.14" Radial Ice	146.73	0.2533	0.0035	0.0102	0.0105
1.2D + 1.0Di + 1.0Wi 180° 51 mph Wind with 1.14" Radial Ice	156.54	0.2497	0.0082	0.0254	0.0267
1.2D + 1.0Di + 1.0Wi 180° 51 mph Wind with 1.14" Radial Ice	171.89	0.2388	0.0157	0.4814	0.4817
1.2D + 1.0Di + 1.0Wi 180° 51 mph Wind with 1.14" Radial Ice	175.19	0.2367	0.0155	0.0502	0.0526
1.2D + 1.0Di + 1.0Wi 180° 51 mph Wind with 1.14" Radial Ice	179.81	0.2342	0.0155	0.1402	0.141
1.2D + 1.0Di + 1.0Wi 120° 51 mph Wind with 1.14" Radial Ice	76.54	0.2136	0.0696	0.0307	0.075
1.2D + 1.0Di + 1.0Wi 120° 51 mph Wind with 1.14" Radial Ice	93.27	0.2123	0.0640	0.0537	0.0836
1.2D + 1.0Di + 1.0Wi 120° 51 mph Wind with 1.14" Radial Ice	103.46	0.1978	0.0607	0.0789	0.0996
1.2D + 1.0Di + 1.0Wi 120° 51 mph Wind with 1.14" Radial Ice	116.54	0.1756	0.0580	0.3480	0.3528
1.2D + 1.0Di + 1.0Wi 120° 51 mph Wind with 1.14" Radial Ice	146.73	0.1206	0.0620	0.1443	0.1566
1.2D + 1.0Di + 1.0Wi 120° 51 mph Wind with 1.14" Radial Ice	156.54	0.0924	0.0635	0.1688	0.1803
1.2D + 1.0Di + 1.0Wi 120° 51 mph Wind with 1.14" Radial Ice	171.89	0.0429	0.0665	0.5396	0.5432
1.2D + 1.0Di + 1.0Wi 120° 51 mph Wind with 1.14" Radial Ice	175.19	0.0329	0.0678	0.1210	0.1383
1.2D + 1.0Di + 1.0Wi 120° 51 mph Wind with 1.14" Radial Ice	179.81	0.0182	0.0694	0.3526	0.3592
1.2D + 1.0Di + 1.0Wi 90° 51 mph Wind with 1.14" Radial Ice	76.54	0.2167	0.1546	0.0673	0.1672
1.2D + 1.0Di + 1.0Wi 90° 51 mph Wind with 1.14" Radial Ice	93.27	0.227	0.1451	0.0475	0.1526
1.2D + 1.0Di + 1.0Wi 90° 51 mph Wind with 1.14" Radial Ice	103.46	0.2216	0.1393	0.0590	0.1513
1.2D + 1.0Di + 1.0Wi 90° 51 mph Wind with 1.14" Radial Ice	116.54	0.2142	0.1331	0.3187	0.3449
1.2D + 1.0Di + 1.0Wi 90° 51 mph Wind with 1.14" Radial Ice	146.73	0.2046	0.1393	0.0944	0.168
1.2D + 1.0Di + 1.0Wi 90° 51 mph Wind with 1.14" Radial Ice	156.54	0.1945	0.1415	0.1131	0.1812
1.2D + 1.0Di + 1.0Wi 90° 51 mph Wind with 1.14" Radial Ice	171.89	0.1781	0.1453	0.5201	0.5393
1.2D + 1.0Di + 1.0Wi 90° 51 mph Wind with 1.14" Radial Ice	175.19	0.1756	0.1452	0.0722	0.1619
1.2D + 1.0Di + 1.0Wi 90° 51 mph Wind with 1.14" Radial Ice	179.81	0.172	0.1457	0.3369	0.3669
1.2D + 1.0Di + 1.0Wi 60° 51 mph Wind with 1.14" Radial Ice	76.54	0.2269	0.0708	0.0880	0.112
1.2D + 1.0Di + 1.0Wi 60° 51 mph Wind with 1.14" Radial Ice	93.27	0.2461	0.0651	0.0316	0.0723
1.2D + 1.0Di + 1.0Wi 60° 51 mph Wind with 1.14" Radial Ice	103.46	0.2476	0.0621	0.0252	0.067
1.2D + 1.0Di + 1.0Wi 60° 51 mph Wind with 1.14" Radial Ice	116.54	0.2491	0.0591	0.2937	0.2995
1.2D + 1.0Di + 1.0Wi 60° 51 mph Wind with 1.14" Radial Ice	146.73	0.2592	0.0640	0.0127	0.0653
1.2D + 1.0Di + 1.0Wi 60° 51 mph Wind with 1.14" Radial Ice	156.54	0.2543	0.0656	0.0311	0.0724
1.2D + 1.0Di + 1.0Wi 60° 51 mph Wind with 1.14" Radial Ice	171.89	0.2422	0.0683	0.4937	0.4983
1.2D + 1.0Di + 1.0Wi 60° 51 mph Wind with 1.14" Radial Ice	175.19	0.24	0.0672	0.0552	0.087
1.2D + 1.0Di + 1.0Wi 60° 51 mph Wind with 1.14" Radial Ice	179.81	0.2366	0.0668	0.2466	0.2555
1.2D + 1.0Di + 1.0Wi Normal 51 mph Wind with 1.14" Radial Ice	76.54	0.2036	-0.0149	0.0338	0.0367
1.2D + 1.0Di + 1.0Wi Normal 51 mph Wind with 1.14" Radial Ice	93.27	0.2013	-0.0137	0.0337	0.0363

ASSET: 98575, PLEASANT DALE  
 CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-I  
 PROJECT: 15440745\_C3\_03

DEFLECTIONS AND ROTATIONS

Load Case	Elevation (ft)	Deflection (ft)	Twist (deg)	Sway (deg)	Resultant (deg)
1.2D + 1.0Di + 1.0Wi Normal 51 mph Wind with 1.14" Radial Ice	103.46	0.1909	-0.0129	0.0629	0.0642
1.2D + 1.0Di + 1.0Wi Normal 51 mph Wind with 1.14" Radial Ice	116.54	0.172	-0.0124	0.3386	0.3389
1.2D + 1.0Di + 1.0Wi Normal 51 mph Wind with 1.14" Radial Ice	146.73	0.1211	0.0034	0.1356	0.1356
1.2D + 1.0Di + 1.0Wi Normal 51 mph Wind with 1.14" Radial Ice	156.54	0.0954	0.0082	0.1575	0.1577
1.2D + 1.0Di + 1.0Wi Normal 51 mph Wind with 1.14" Radial Ice	171.89	0.0489	0.0162	0.5227	0.5229
1.2D + 1.0Di + 1.0Wi Normal 51 mph Wind with 1.14" Radial Ice	175.19	0.0392	0.0150	0.1792	0.1797
1.2D + 1.0Di + 1.0Wi Normal 51 mph Wind with 1.14" Radial Ice	179.81	0.026	0.0151	0.0090	0.0176
1.2D + 1.0W 330° 111 mph Wind with No Ice	76.54	0.5305	-0.1894	0.3038	0.3577
1.2D + 1.0W 330° 111 mph Wind with No Ice	93.27	0.605	-0.1755	0.2479	0.3037
1.2D + 1.0W 330° 111 mph Wind with No Ice	103.46	0.6417	-0.1646	0.2207	0.2754
1.2D + 1.0W 330° 111 mph Wind with No Ice	116.54	0.6911	-0.1509	0.3006	0.3362
1.2D + 1.0W 330° 111 mph Wind with No Ice	146.73	0.8433	-0.1241	0.2581	0.286
1.2D + 1.0W 330° 111 mph Wind with No Ice	156.54	0.8818	-0.1153	0.2235	0.2509
1.2D + 1.0W 330° 111 mph Wind with No Ice	171.89	0.9297	-0.1015	0.4142	0.4262
1.2D + 1.0W 330° 111 mph Wind with No Ice	175.19	0.9417	-0.1097	0.2871	0.3059
1.2D + 1.0W 330° 111 mph Wind with No Ice	179.81	0.9595	-0.1146	0.9238	0.9309
1.2D + 1.0W 300° 111 mph Wind with No Ice	76.54	0.4166	-0.3895	0.2219	0.4483
1.2D + 1.0W 300° 111 mph Wind with No Ice	93.27	0.4689	-0.3612	0.1262	0.3826
1.2D + 1.0W 300° 111 mph Wind with No Ice	103.46	0.4908	-0.3421	0.1349	0.3677
1.2D + 1.0W 300° 111 mph Wind with No Ice	116.54	0.5192	-0.3174	0.1956	0.3725
1.2D + 1.0W 300° 111 mph Wind with No Ice	146.73	0.6298	-0.2664	0.1791	0.3209
1.2D + 1.0W 300° 111 mph Wind with No Ice	156.54	0.6529	-0.2500	0.1323	0.2814
1.2D + 1.0W 300° 111 mph Wind with No Ice	171.89	0.6743	-0.2243	0.4318	0.486
1.2D + 1.0W 300° 111 mph Wind with No Ice	175.19	0.682	-0.2309	0.4319	0.4898
1.2D + 1.0W 300° 111 mph Wind with No Ice	179.81	0.6905	-0.2354	0.8077	0.8413
1.2D + 1.0W 240° 111 mph Wind with No Ice	76.54	0.6169	-0.3052	0.3460	0.4601
1.2D + 1.0W 240° 111 mph Wind with No Ice	93.27	0.7032	-0.2700	0.2304	0.3549
1.2D + 1.0W 240° 111 mph Wind with No Ice	103.46	0.7445	-0.2549	0.2495	0.3567
1.2D + 1.0W 240° 111 mph Wind with No Ice	116.54	0.7961	-0.2345	0.3209	0.397
1.2D + 1.0W 240° 111 mph Wind with No Ice	146.73	0.9564	-0.1816	0.2659	0.3212
1.2D + 1.0W 240° 111 mph Wind with No Ice	156.54	0.9951	-0.1645	0.2194	0.2739
1.2D + 1.0W 240° 111 mph Wind with No Ice	171.89	1.0403	-0.1377	0.3844	0.4081
1.2D + 1.0W 240° 111 mph Wind with No Ice	175.19	1.0531	-0.1300	0.5245	0.5397
1.2D + 1.0W 240° 111 mph Wind with No Ice	179.81	1.0687	-0.1226	0.7498	0.7593
1.2D + 1.0W 210° 111 mph Wind with No Ice	76.54	0.5378	-0.1776	0.3028	0.3507
1.2D + 1.0W 210° 111 mph Wind with No Ice	93.27	0.6129	-0.1557	0.2213	0.2706
1.2D + 1.0W 210° 111 mph Wind with No Ice	103.46	0.6488	-0.1495	0.2190	0.2652
1.2D + 1.0W 210° 111 mph Wind with No Ice	116.54	0.6941	-0.1402	0.2910	0.3228
1.2D + 1.0W 210° 111 mph Wind with No Ice	146.73	0.84	-0.1081	0.2434	0.266
1.2D + 1.0W 210° 111 mph Wind with No Ice	156.54	0.8756	-0.0977	0.2045	0.2262
1.2D + 1.0W 210° 111 mph Wind with No Ice	171.89	0.9183	-0.0812	0.3828	0.3912
1.2D + 1.0W 210° 111 mph Wind with No Ice	175.19	0.9295	-0.0731	0.3408	0.3485
1.2D + 1.0W 210° 111 mph Wind with No Ice	179.81	0.9451	-0.0655	0.8221	0.8244
1.2D + 1.0W 180° 111 mph Wind with No Ice	76.54	0.4019	-0.0091	0.2163	0.2165
1.2D + 1.0W 180° 111 mph Wind with No Ice	93.27	0.4533	-0.0067	0.1661	0.1663
1.2D + 1.0W 180° 111 mph Wind with No Ice	103.46	0.4746	-0.0074	0.1369	0.1371
1.2D + 1.0W 180° 111 mph Wind with No Ice	116.54	0.504	-0.0072	0.1773	0.1774
1.2D + 1.0W 180° 111 mph Wind with No Ice	146.73	0.6187	0.0028	0.1887	0.1887
1.2D + 1.0W 180° 111 mph Wind with No Ice	156.54	0.6446	0.0059	0.1499	0.15
1.2D + 1.0W 180° 111 mph Wind with No Ice	171.89	0.6753	0.0101	0.3808	0.3809
1.2D + 1.0W 180° 111 mph Wind with No Ice	175.19	0.6832	0.0111	0.1058	0.1062
1.2D + 1.0W 180° 111 mph Wind with No Ice	179.81	0.6962	0.0111	0.8599	0.86
1.2D + 1.0W 120° 111 mph Wind with No Ice	76.54	0.6163	0.2894	0.3460	0.4511
1.2D + 1.0W 120° 111 mph Wind with No Ice	93.27	0.7056	0.2561	0.2346	0.3473
1.2D + 1.0W 120° 111 mph Wind with No Ice	103.46	0.7441	0.2402	0.2411	0.3403
1.2D + 1.0W 120° 111 mph Wind with No Ice	116.54	0.796	0.2208	0.3211	0.3897
1.2D + 1.0W 120° 111 mph Wind with No Ice	146.73	0.9576	0.1859	0.2646	0.323
1.2D + 1.0W 120° 111 mph Wind with No Ice	156.54	0.9947	0.1747	0.2183	0.2785
1.2D + 1.0W 120° 111 mph Wind with No Ice	171.89	1.0408	0.1560	0.3798	0.4104

ASSET: 98575, PLEASANT DALE  
 CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-I  
 PROJECT: 15440745\_C3\_03

DEFLECTIONS AND ROTATIONS

Load Case	Elevation (ft)	Deflection (ft)	Twist (deg)	Sway (deg)	Resultant (deg)
1.2D + 1.0W 120° 111 mph Wind with No Ice	175.19	1.0542	0.1465	0.5106	0.5309
1.2D + 1.0W 120° 111 mph Wind with No Ice	179.81	1.0701	0.1391	0.7497	0.7625
1.2D + 1.0W 90° 111 mph Wind with No Ice	76.54	0.5516	0.3622	0.3062	0.4743
1.2D + 1.0W 90° 111 mph Wind with No Ice	93.27	0.6301	0.3246	0.1833	0.3728
1.2D + 1.0W 90° 111 mph Wind with No Ice	103.46	0.6622	0.3035	0.2115	0.37
1.2D + 1.0W 90° 111 mph Wind with No Ice	116.54	0.7059	0.2770	0.2833	0.3962
1.2D + 1.0W 90° 111 mph Wind with No Ice	146.73	0.8473	0.2338	0.2256	0.3249
1.2D + 1.0W 90° 111 mph Wind with No Ice	156.54	0.8773	0.2198	0.1772	0.2822
1.2D + 1.0W 90° 111 mph Wind with No Ice	171.89	0.9117	0.1976	0.4293	0.4725
1.2D + 1.0W 90° 111 mph Wind with No Ice	175.19	0.9227	0.1945	0.5439	0.5776
1.2D + 1.0W 90° 111 mph Wind with No Ice	179.81	0.9344	0.1927	0.7105	0.7362
1.2D + 1.0W 60° 111 mph Wind with No Ice	76.54	0.4161	0.3726	0.2217	0.4324
1.2D + 1.0W 60° 111 mph Wind with No Ice	93.27	0.4707	0.3451	0.1245	0.3669
1.2D + 1.0W 60° 111 mph Wind with No Ice	103.46	0.4904	0.3269	0.1481	0.3589
1.2D + 1.0W 60° 111 mph Wind with No Ice	116.54	0.5188	0.3034	0.1939	0.36
1.2D + 1.0W 60° 111 mph Wind with No Ice	146.73	0.6306	0.2711	0.1751	0.3228
1.2D + 1.0W 60° 111 mph Wind with No Ice	156.54	0.6525	0.2604	0.1312	0.291
1.2D + 1.0W 60° 111 mph Wind with No Ice	171.89	0.675	0.2431	0.4322	0.4956
1.2D + 1.0W 60° 111 mph Wind with No Ice	175.19	0.6826	0.2491	0.4192	0.4876
1.2D + 1.0W 60° 111 mph Wind with No Ice	179.81	0.6912	0.2537	0.8004	0.8396
1.2D + 1.0W Normal 111 mph Wind with No Ice	76.54	0.595	-0.0092	0.3439	0.344
1.2D + 1.0W Normal 111 mph Wind with No Ice	93.27	0.6826	-0.0085	0.2882	0.2883
1.2D + 1.0W Normal 111 mph Wind with No Ice	103.46	0.7253	-0.0077	0.2583	0.2584
1.2D + 1.0W Normal 111 mph Wind with No Ice	116.54	0.781	-0.0076	0.3325	0.3325
1.2D + 1.0W Normal 111 mph Wind with No Ice	146.73	0.9534	0.0026	0.2927	0.2927
1.2D + 1.0W Normal 111 mph Wind with No Ice	156.54	0.9972	0.0058	0.2568	0.2569
1.2D + 1.0W Normal 111 mph Wind with No Ice	171.89	1.0559	0.0092	0.3579	0.358
1.2D + 1.0W Normal 111 mph Wind with No Ice	175.19	1.0703	0.0100	0.2105	0.2107
1.2D + 1.0W Normal 111 mph Wind with No Ice	179.81	1.092	0.0100	0.9601	0.9601

ASSET: 98575, PLEASANT DALE  
 CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-I  
 PROJECT: 15440745\_C3\_03

DETAILED REACTIONS

Load Case	Radius (ft)	Elevation (ft)	Azimuth (deg)	Node	*(-) Uplift and (+) Down		
					FX* (kip)	FY* (kip)	FZ* (kip)
1.2D + 1.0W Normal	0.00	0.00		1	0.00	55.80	-0.64
	144.00	0.00	0	A1	0.00	-0.95	0.69
	144.00	0.00	240	A1a	-14.84	-15.58	-9.18
	144.00	0.00	120	A1b	14.84	-15.58	-9.18
1.2D + 1.0W 60°	0.00	0.00		1	-0.63	49.81	-0.35
	144.00	0.00	0	A1	-0.45	-3.92	4.08
	144.00	0.00	240	A1a	-18.07	-18.48	-10.44
	144.00	0.00	120	A1b	3.31	-3.97	-2.43
1.2D + 1.0W 90°	0.00	0.00		1	-0.66	53.54	-0.05
	144.00	0.00	0	A1	-0.61	-10.00	11.06
	144.00	0.00	240	A1a	-18.11	-18.38	-10.14
	144.00	0.00	120	A1b	1.10	-1.59	-0.88
1.2D + 1.0W 120°	0.00	0.00		1	-0.56	55.70	0.33
	144.00	0.00	0	A1	-0.54	-15.54	17.45
	144.00	0.00	240	A1a	-15.37	-15.51	-8.27
	144.00	0.00	120	A1b	0.60	-0.95	-0.35
1.2D + 1.0W 180°	0.00	0.00		1	0.00	49.82	0.73
	144.00	0.00	0	A1	0.00	-18.51	20.85
	144.00	0.00	240	A1a	-3.76	-3.94	-1.65
	144.00	0.00	120	A1b	3.76	-3.94	-1.65
1.2D + 1.0W 210°	0.00	0.00		1	0.29	53.58	0.61
	144.00	0.00	0	A1	0.29	-18.42	20.75
	144.00	0.00	240	A1a	-1.31	-1.59	-0.51
	144.00	0.00	120	A1b	9.87	-10.00	-5.01
1.2D + 1.0W 240°	0.00	0.00		1	0.56	55.70	0.33
	144.00	0.00	0	A1	0.54	-15.54	17.44
	144.00	0.00	240	A1a	-0.60	-0.95	-0.35
	144.00	0.00	120	A1b	15.37	-15.51	-8.27
1.2D + 1.0W 300°	0.00	0.00		1	0.63	49.82	-0.35
	144.00	0.00	0	A1	0.45	-3.92	4.08
	144.00	0.00	240	A1a	-3.31	-3.97	-2.43
	144.00	0.00	120	A1b	18.07	-18.48	-10.44
1.2D + 1.0W 330°	0.00	0.00		1	0.37	53.65	-0.54
	144.00	0.00	0	A1	0.21	-1.58	1.38
	144.00	0.00	240	A1a	-9.27	-10.06	-6.05
	144.00	0.00	120	A1b	17.84	-18.43	-10.63
1.2D + 1.0Di + 1.0Wi Normal	0.00	0.00		1	0.00	80.50	-0.46
	144.00	0.00	0	A1	0.00	-4.88	6.44
	144.00	0.00	240	A1a	-11.88	-10.94	-7.62
	144.00	0.00	120	A1b	11.88	-10.94	-7.62
1.2D + 1.0Di + 1.0Wi 60°	0.00	0.00		1	-0.29	81.04	-0.16
	144.00	0.00	0	A1	-0.66	-7.18	9.07
	144.00	0.00	240	A1a	-14.60	-13.29	-8.43
	144.00	0.00	120	A1b	7.53	-7.22	-5.11
1.2D + 1.0Di + 1.0Wi 90°	0.00	0.00		1	-0.40	80.74	0.07
	144.00	0.00	0	A1	-0.82	-9.03	11.55
	144.00	0.00	240	A1a	-14.08	-12.57	-7.77
	144.00	0.00	120	A1b	6.04	-5.60	-3.85
1.2D + 1.0Di + 1.0Wi 120°	0.00	0.00		1	-0.41	80.52	0.24
	144.00	0.00	0	A1	-0.66	-10.92	14.10
	144.00	0.00	240	A1a	-12.55	-10.94	-6.48
	144.00	0.00	120	A1b	5.59	-4.92	-3.23
1.2D + 1.0Di + 1.0Wi 180°	0.00	0.00		1	0.00	81.03	0.34
	144.00	0.00	0	A1	0.00	-13.26	16.85
	144.00	0.00	240	A1a	-8.19	-7.21	-3.97
	144.00	0.00	120	A1b	8.19	-7.21	-3.97
1.2D + 1.0Di + 1.0Wi 210°	0.00	0.00		1	0.25	80.73	0.32
	144.00	0.00	0	A1	0.31	-12.55	16.06
	144.00	0.00	240	A1a	-6.35	-5.59	-3.30

ASSET: 98575, PLEASANT DALE  
 CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-I  
 PROJECT: 15440745\_C3\_03

DETAILED REACTIONS

Load Case	Radius (ft)	Elevation (ft)	Azimuth (deg)	Node	*(-) Uplift and (+) Down		
					FX* (kip)	FY* (kip)	FZ* (kip)
1.2D + 1.0Di + 1.0Wi 240°	144.00	0.00	120	A1b	10.41	-9.05	-5.07
	0.00	0.00		1	0.41	80.52	0.24
	144.00	0.00	0	A1	0.66	-10.92	14.10
	144.00	0.00	240	A1a	-5.59	-4.92	-3.23
	144.00	0.00	120	A1b	12.55	-10.94	-6.49
1.2D + 1.0Di + 1.0Wi 300°	0.00	0.00		1	0.29	81.04	-0.16
	144.00	0.00	0	A1	0.66	-7.18	9.07
	144.00	0.00	240	A1a	-7.53	-7.22	-5.11
	144.00	0.00	120	A1b	14.60	-13.29	-8.43
	0.00	0.00		1	0.15	80.72	-0.37
1.2D + 1.0Di + 1.0Wi 330°	144.00	0.00	0	A1	0.31	-5.56	7.14
	144.00	0.00	240	A1a	-9.59	-9.06	-6.48
	144.00	0.00	120	A1b	13.76	-12.57	-8.30
	0.00	0.00		1	0.00	38.00	0.01
	144.00	0.00	0	A1	0.00	-4.21	4.90
1.2D + 1.0Ev + 1.0Eh Normal	144.00	0.00	240	A1a	-4.87	-4.95	-2.81
	144.00	0.00	120	A1b	4.87	-4.95	-2.81
	0.00	0.00		1	0.01	37.99	0.01
	144.00	0.00	0	A1	0.00	-4.46	5.14
	144.00	0.00	240	A1a	-5.07	-5.19	-2.93
1.2D + 1.0Ev + 1.0Eh 60°	144.00	0.00	120	A1b	4.45	-4.46	-2.57
	0.00	0.00		1	0.01	37.99	0.00
	144.00	0.00	0	A1	0.00	-4.71	5.38
	144.00	0.00	240	A1a	-5.01	-5.13	-2.89
	144.00	0.00	120	A1b	4.30	-4.29	-2.48
1.2D + 1.0Ev + 1.0Eh 90°	0.00	0.00		1	0.01	37.99	-0.01
	144.00	0.00	0	A1	0.00	-4.95	5.62
	144.00	0.00	240	A1a	-4.86	-4.95	-2.81
	144.00	0.00	120	A1b	4.25	-4.22	-2.45
	0.00	0.00		1	0.00	37.99	-0.01
1.2D + 1.0Ev + 1.0Eh 120°	144.00	0.00	0	A1	0.00	-5.19	5.85
	144.00	0.00	240	A1a	-4.45	-4.46	-2.57
	144.00	0.00	120	A1b	4.45	-4.46	-2.57
	0.00	0.00		1	-0.01	37.99	-0.01
	144.00	0.00	0	A1	0.00	-5.13	5.79
1.2D + 1.0Ev + 1.0Eh 210°	144.00	0.00	240	A1a	-4.30	-4.29	-2.48
	144.00	0.00	120	A1b	4.66	-4.71	-2.69
	0.00	0.00		1	-0.01	37.99	-0.01
	144.00	0.00	0	A1	0.00	-4.95	5.62
	144.00	0.00	240	A1a	-4.25	-4.22	-2.45
1.2D + 1.0Ev + 1.0Eh 240°	144.00	0.00	120	A1b	4.86	-4.95	-2.81
	0.00	0.00		1	-0.01	37.99	0.01
	144.00	0.00	0	A1	0.00	-4.46	5.14
	144.00	0.00	240	A1a	-4.45	-4.46	-2.57
	144.00	0.00	120	A1b	5.07	-5.19	-2.93
1.2D + 1.0Ev + 1.0Eh 300°	0.00	0.00		1	-0.01	37.99	0.01
	144.00	0.00	0	A1	0.00	-4.29	4.97
	144.00	0.00	240	A1a	-4.66	-4.71	-2.69
	144.00	0.00	120	A1b	5.01	-5.13	-2.90
	0.00	0.00		1	0.00	34.46	-0.27
1.0D + 1.0W Service Normal	144.00	0.00	0	A1	0.00	-2.04	2.35
	144.00	0.00	240	A1a	-6.16	-6.29	-3.71
	144.00	0.00	120	A1b	6.16	-6.29	-3.71
	0.00	0.00		1	-0.21	34.97	-0.12
	144.00	0.00	0	A1	-0.13	-3.65	4.11
1.0D + 1.0W Service 60°	144.00	0.00	240	A1a	-7.78	-7.90	-4.49
	144.00	0.00	120	A1b	3.50	-3.66	-2.17
	0.00	0.00		1	-0.25	34.73	0.01
	144.00	0.00	0	A1	-0.17	-4.97	5.65
	1.0D + 1.0W Service 90°	144.00	0.00	0	A1	-0.17	-4.97

ASSET: 98575, PLEASANT DALE  
 CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-I  
 PROJECT: 15440745\_C3\_03

DETAILED REACTIONS

Load Case	Radius (ft)	Elevation (ft)	Azimuth (deg)	Node	*(-) Uplift and (+) Down		
					FX* (kip)	FY* (kip)	FZ* (kip)
1.0D + 1.0W Service 120°	144.00	0.00	240	A1a	-7.37	-7.42	-4.18
	144.00	0.00	120	A1b	2.44	-2.54	-1.48
	0.00	0.00		1	-0.24	34.47	0.14
	144.00	0.00	0	A1	-0.13	-6.29	7.20
1.0D + 1.0W Service 180°	144.00	0.00	240	A1a	-6.30	-6.29	-3.48
	144.00	0.00	120	A1b	2.04	-2.06	-1.17
	0.00	0.00		1	0.00	34.97	0.25
	144.00	0.00	0	A1	0.00	-7.89	8.97
1.0D + 1.0W Service 210°	144.00	0.00	240	A1a	-3.63	-3.66	-1.94
	144.00	0.00	120	A1b	3.63	-3.66	-1.94
	0.00	0.00		1	0.13	34.73	0.22
	144.00	0.00	0	A1	0.07	-7.43	8.47
1.0D + 1.0W Service 240°	144.00	0.00	240	A1a	-2.50	-2.53	-1.37
	144.00	0.00	120	A1b	4.98	-4.98	-2.69
	0.00	0.00		1	0.24	34.47	0.14
	144.00	0.00	0	A1	0.13	-6.29	7.20
1.0D + 1.0W Service 300°	144.00	0.00	240	A1a	-2.04	-2.06	-1.17
	144.00	0.00	120	A1b	6.30	-6.29	-3.49
	0.00	0.00		1	0.21	34.97	-0.12
	144.00	0.00	0	A1	0.13	-3.65	4.11
1.0D + 1.0W Service 330°	144.00	0.00	240	A1a	-3.50	-3.67	-2.17
	144.00	0.00	120	A1b	7.78	-7.90	-4.49
	0.00	0.00		1	0.12	34.73	-0.22
	144.00	0.00	0	A1	0.06	-2.52	2.85
1.2D + 1.0Ev + 1.5Eh Normal	144.00	0.00	240	A1a	-4.81	-4.99	-2.97
	144.00	0.00	120	A1b	7.30	-7.43	-4.29
	0.00	0.00		1	0.00	38.01	0.02
	144.00	0.00	0	A1	0.00	-3.97	4.65
1.2D + 1.0Ev + 1.5Eh 60°	144.00	0.00	240	A1a	-4.98	-5.09	-2.88
	144.00	0.00	120	A1b	4.98	-5.09	-2.88
	0.00	0.00		1	0.02	38.01	0.01
	144.00	0.00	0	A1	0.00	-4.34	5.02
1.2D + 1.0Ev + 1.5Eh 90°	144.00	0.00	240	A1a	-5.29	-5.45	-3.05
	144.00	0.00	120	A1b	4.35	-4.34	-2.51
	0.00	0.00		1	0.02	38.01	0.00
	144.00	0.00	0	A1	0.00	-4.71	5.38
1.2D + 1.0Ev + 1.5Eh 120°	144.00	0.00	240	A1a	-5.21	-5.35	-3.01
	144.00	0.00	120	A1b	4.12	-4.07	-2.38
	0.00	0.00		1	0.02	38.01	-0.01
	144.00	0.00	0	A1	0.00	-5.08	5.75
1.2D + 1.0Ev + 1.5Eh 180°	144.00	0.00	240	A1a	-4.98	-5.08	-2.87
	144.00	0.00	120	A1b	4.04	-3.97	-2.33
	0.00	0.00		1	0.00	38.01	-0.02
	144.00	0.00	0	A1	0.00	-5.45	6.11
1.2D + 1.0Ev + 1.5Eh 210°	144.00	0.00	240	A1a	-4.35	-4.34	-2.51
	144.00	0.00	120	A1b	4.35	-4.34	-2.51
	0.00	0.00		1	-0.01	38.01	-0.02
	144.00	0.00	0	A1	0.00	-5.35	6.01
1.2D + 1.0Ev + 1.5Eh 240°	144.00	0.00	240	A1a	-4.12	-4.07	-2.38
	144.00	0.00	120	A1b	4.66	-4.71	-2.69
	0.00	0.00		1	-0.02	38.01	-0.01
	144.00	0.00	0	A1	0.00	-5.08	5.75
1.2D + 1.0Ev + 1.5Eh 300°	144.00	0.00	240	A1a	-4.04	-3.97	-2.33
	144.00	0.00	120	A1b	4.98	-5.08	-2.87
	0.00	0.00		1	-0.02	38.01	0.01
	144.00	0.00	0	A1	0.00	-4.34	5.02
1.2D + 1.0Ev + 1.5Eh 330°	144.00	0.00	240	A1a	-4.35	-4.34	-2.51
	144.00	0.00	120	A1b	5.29	-5.45	-3.05
	0.00	0.00		1	-0.01	38.01	0.02
	144.00	0.00	0	A1	0.00	-5.08	5.75

ASSET: 98575, PLEASANT DALE  
CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-I  
PROJECT: 15440745\_C3\_03

DETAILED REACTIONS

Load Case	Radius (ft)	Elevation (ft)	Azimuth (deg)	Node	*(-) Uplift and (+) Down		
					FX* (kip)	FY* (kip)	FZ* (kip)
	144.00	0.00	0	A1	0.00	-4.07	4.76
	144.00	0.00	240	A1a	-4.66	-4.71	-2.69
	144.00	0.00	120	A1b	5.21	-5.35	-3.01

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 CUSTOMER: AT&T MOBILITY

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MAXIMUM GUY ANCHOR REACTIONS

Radius (ft)	Drop (ft)	Azimuth (deg)	Uplift (kip)	Shear (kip)
144.00	0.00	0	18.51	20.85
144.00	0.00	120	18.48	20.87
144.00	0.00	240	18.48	20.87

MAXIMUM REACTIONS SUMMARY

Base / Anchor Group	Vertical Load <i>(Compression for Base; Uplift for Anchor)</i>	Horizontal Shear
Guyed - Pivot Base	81.04 (kip)	0.73 (kip)
Guyed Anchor - A1	18.51 (kip)	20.87 (kip)

MAXIMUM GUY ANCHOR REACTIONS WITH OVERSTRENGTH

Radius (ft)	Drop (ft)	Azimuth (deg)	Uplift (kip)	Shear (kip)
144.00	0.00	0	18.51	20.85
144.00	0.00	120	18.48	20.87
144.00	0.00	240	18.48	20.87

MAXIMUM REACTIONS SUMMARY WITH OVERSTRENGTH

Base / Anchor Group	Vertical Load <i>(Compression for Base; Uplift for Anchor)</i>	Horizontal Shear
Guyed - Pivot Base w/Overstrength	81.04 (kip)	0.73 (kip)
Guyed Anchor - A1 w/Overstrength	18.51 (kip)	20.87 (kip)

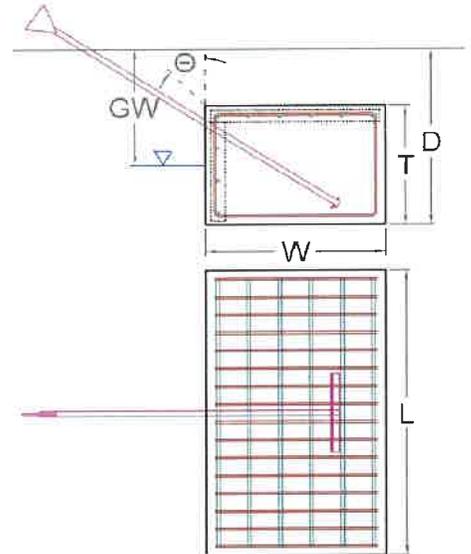
**GUY ANCHOR BLOCK FOUNDATION ANALYSIS (NODE A1a @ r = 144 ft)**

**APPLIED REACTIONS**

Uplift (k)	Shear (k)
18.48	20.87

**FOUNDATION PARAMETERS**

Base Depth:	D	10	ft
Block Width:	W	2.5	ft
Block Length:	L	12	ft
Block Thickness:	T	2	ft
Concrete Compressive Strength:		3,000	psi
Top Rebar Quantity, Size, & Yield:		(4) #7 bars [60 ksi]	
Side Rebar Quantity, Size, & Yield:		(3) #7 bars [60 ksi]	



**SOIL PARAMETERS**

Water Table Depth [BGL]:	GW	-	ft
Soil Unit Weight:		110	pcf
Friction Angle:		5	°
Cohesion:		500	psf
Ultimate Skin Friction:		0	psf
Coefficient of Shear Friction:		0.25	
Uplift Pullout Angle:	θ	5	°
Uplift at ____ of Anchor:		Top	

**SOIL STRENGTH ANALYSIS**

Uplift Strength Reduction Factor, $\Phi_u$	Shear Strength Reduction Factor, $\Phi_v$	Dead Load Factor
0.75	0.75	0.9

**SOIL UPLIFT ANALYSIS**

Uplift Resistance from Skin Friction and Soil Shear (k)	Additional Uplift Resistance (k)	Uplift Capacity, $\Phi T_n$ (k)	Soil Uplift Usage, $T_u / \Phi T_n$
58.74	0	75.92	24.3%

**SOIL SHEAR ANALYSIS**

Skin Friction Resistance (k)	Normal Force Resistance (k)	Passive Pressure (psf)	Passive Pressure Resistance (k)	Additional Shear Resistance (k)	Shear Capacity, $\Phi V_n$ (k)	Soil Shear Usage, $V_u / \Phi V_n$
0.00	3.34	2,270.35	54.49	0	43.38	48.1%

ASSET: 98575, PLEASANT DALE  
 CUSTOMER: AT&T MOBILITY

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**REINFORCING STEEL STRENGTH ANALYSIS**

Strength Shear Reduction Factor, $\phi_v$	Strength Reduction Factor for Lateral Flexure, $\phi_{bv}$	Strength Reduction Factor for Vertical Flexure, $\phi_{BT}$	Compression Zone Factor, $\beta_1$
0.75	0.9	0.9	0.65

**REINFORCING ONE WAY SHEAR ANALYSIS - SHEAR**

One Way Shear due to Shear, $V_u$ (k)	One Way Shear Capacity due to Shear, $\phi_c V_n$ (k)	Rebar One Way Shear Usage, $V_u / \phi_c V_n$
8.55	51.39	16.6%

**REINFORCING ONE WAY SHEAR ANALYSIS - UPLIFT**

One Way Shear due to Uplift, $V_u$ (k)	One Way Shear Capacity due to Uplift, $\phi_c V_n$ (k)	Rebar One Way Shear Usage, $V_u / \phi_c V_n$
7.96	49.45	16.1%

**REINFORCING FLEXURE ANALYSIS - SHEAR**

Flexure Load, $M_{uv}$ (k-ft)	Distance to steel, $d_v$ (in)	Whitney Block, $a_v$ (in)	Strain in Rebar, $\epsilon_t$ (in/in)	Flexural Capacity, $\phi_{bv} M_{nv}$ (k-ft)	Rebar Flexural Usage, $M_{uv} / \phi_{bv} M_{nv}$
31.30	26.062	1.765	0.0347	203.96	15.3%

**REINFORCING FLEXURE ANALYSIS - UPLIFT**

Flexure Load, $M_{ut}$ (k-ft)	Depth to steel, $d_t$ (in)	Whitney Block, $a_t$ (in)	Strain in Rebar, $\epsilon_t$ (in/in)	Flexural Capacity, $\phi_{bt} M_{nt}$ (k-ft)	Rebar Flexural Usage, $M_{ut} / \phi_{bt} M_{nt}$
27.72	20.062	1.882	0.0242	206.51	13.4%

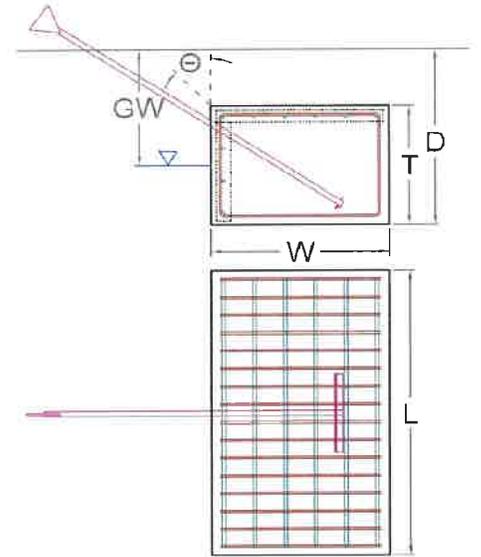
**GUY ANCHOR BLOCK FOUNDATION ANALYSIS (NODE A1b @ r = 144 ft)**

**APPLIED REACTIONS**

Uplift (k)	Shear (k)
18.48	20.87

**FOUNDATION PARAMETERS**

Base Depth:	D	10	ft
Block Width:	W	2.5	ft
Block Length:	L	12	ft
Block Thickness:	T	2	ft
Concrete Compressive Strength:		3,000	psi
Top Rebar Quantity, Size, & Yield:		(4) #7 bars [60 ksi]	
Side Rebar Quantity, Size, & Yield:		(3) #7 bars [60 ksi]	



**SOIL PARAMETERS**

Water Table Depth [BGL]:	GW	-	ft
Soil Unit Weight:		110	pcf
Friction Angle:		5	°
Cohesion:		500	psf
Ultimate Skin Friction:		0	psf
Coefficient of Shear Friction:		0.25	
Uplift Pullout Angle:	$\theta$	5	°
Uplift at ____ of Anchor:		Top	

**SOIL STRENGTH ANALYSIS**

Uplift Strength Reduction Factor, $\Phi_u$	Shear Strength Reduction Factor, $\Phi_v$	Dead Load Factor
0.75	0.75	0.9

**SOIL UPLIFT ANALYSIS**

Uplift Resistance from Skin Friction and Soil Shear (k)	Additional Uplift Resistance (k)	Uplift Capacity, $\Phi T_n$ (k)	Soil Uplift Usage, $T_u / \Phi T_n$
58.74	0	75.92	24.3% <span style="float: right;">✓</span>

**SOIL SHEAR ANALYSIS**

Skin Friction Resistance (k)	Normal Force Resistance (k)	Passive Pressure (psf)	Passive Pressure Resistance (k)	Additional Shear Resistance (k)	Shear Capacity, $\Phi V_n$ (k)	Soil Shear Usage, $V_u / \Phi V_n$
0.00	3.34	2,270.35	54.49	0	43.38	48.1% <span style="float: right;">✓</span>

**REINFORCING STEEL STRENGTH ANALYSIS**

Strength Shear Reduction Factor, $\Phi_v$	Strength Reduction Factor for Lateral Flexure, $\Phi_{BV}$	Strength Reduction Factor for Vertical Flexure, $\Phi_{BT}$	Compression Zone Factor, $\beta_1$
0.75	0.9	0.9	0.65

**REINFORCING ONE WAY SHEAR ANALYSIS - SHEAR**

One Way Shear due to Shear, $V_u$ (k)	One Way Shear Capacity due to Shear, $\Phi_c V_n$ (k)	Rebar One Way Shear Usage, $V_u / \Phi_c V_n$
8.55	51.39	16.6%

**REINFORCING ONE WAY SHEAR ANALYSIS - UPLIFT**

One Way Shear due to Uplift, $V_u$ (k)	One Way Shear Capacity due to Uplift, $\Phi_c V_n$ (k)	Rebar One Way Shear Usage, $V_u / \Phi_c V_n$
7.96	49.45	16.1%

**REINFORCING FLEXURE ANALYSIS - SHEAR**

Flexure Load, $M_{uv}$ (k-ft)	Distance to steel, $d_v$ (in)	Whitney Block, $a_v$ (in)	Strain in Rebar, $\epsilon_t$ (in/in)	Flexural Capacity, $\Phi_{bv} M_{nv}$ (k-ft)	Rebar Flexural Usage, $M_{uv} / \Phi_{bv} M_{nv}$
31.30	26.062	1.765	0.0347	203.96	15.3%

**REINFORCING FLEXURE ANALYSIS - UPLIFT**

Flexure Load, $M_{ut}$ (k-ft)	Depth to steel, $d_t$ (in)	Whitney Block, $a_t$ (in)	Strain in Rebar, $\epsilon_t$ (in/in)	Flexural Capacity, $\Phi_{bt} M_{nt}$ (k-ft)	Rebar Flexural Usage, $M_{ut} / \Phi_{bt} M_{nt}$
27.72	20.062	1.882	0.0242	206.51	13.4%

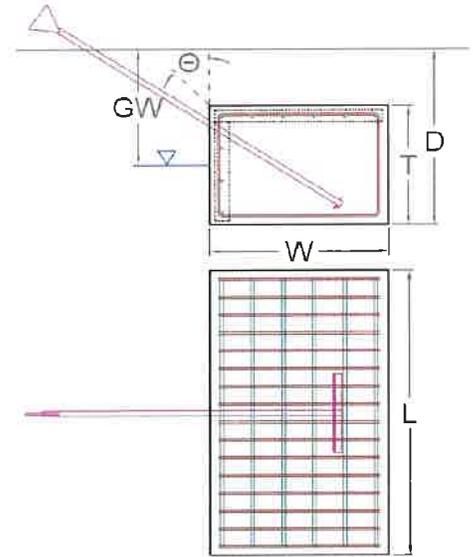
**GUY ANCHOR BLOCK FOUNDATION ANALYSIS (NODE A1 @ r = 144 ft)**

**APPLIED REACTIONS**

Uplift (k)	Shear (k)
18.51	20.85

**FOUNDATION PARAMETERS**

Base Depth:	D	10	ft
Block Width:	W	2.5	ft
Block Length:	L	12	ft
Block Thickness:	T	2	ft
Concrete Compressive Strength:		3,000	psi
Top Rebar Quantity, Size, & Yield:		(4) #7 bars [60 ksi]	
Side Rebar Quantity, Size, & Yield:		(3) #7 bars [60 ksi]	



**SOIL PARAMETERS**

Water Table Depth [BGL]:	GW	-	ft
Soil Unit Weight:		110	pcf
Friction Angle:		5	°
Cohesion:		500	psf
Ultimate Skin Friction:		0	psf
Coefficient of Shear Friction:		0.25	
Uplift Pullout Angle:	θ	5	°
Uplift at ___ of Anchor:		Top	

**SOIL STRENGTH ANALYSIS**

Uplift Strength Reduction Factor, $\Phi_u$	Shear Strength Reduction Factor, $\Phi_v$	Dead Load Factor
0.75	0.75	0.9

**SOIL UPLIFT ANALYSIS**

Uplift Resistance from Skin Friction and Soil Shear (k)	Additional Uplift Resistance (k)	Uplift Capacity, $\Phi T_n$ (k)	Soil Uplift Usage, $T_u / \Phi T_n$	
58.74	0	75.92	24.4%	✓

**SOIL SHEAR ANALYSIS**

Skin Friction Resistance (k)	Normal Force Resistance (k)	Passive Pressure (psf)	Passive Pressure Resistance (k)	Additional Shear Resistance (k)	Shear Capacity, $\Phi V_n$ (k)	Soil Shear Usage, $V_u / \Phi V_n$	
0.00	3.34	2,270.35	54.49	0	43.37	48.1%	✓

**REINFORCING STEEL STRENGTH ANALYSIS**

Strength Shear Reduction Factor, $\Phi_v$	Strength Reduction Factor for Lateral Flexure, $\Phi_{BV}$	Strength Reduction Factor for Vertical Flexure, $\Phi_{BT}$	Compression Zone Factor, $\beta_1$
0.75	0.9	0.9	0.65

**REINFORCING ONE WAY SHEAR ANALYSIS - SHEAR**

One Way Shear due to Shear, $V_u$ (k)	One Way Shear Capacity due to Shear, $\Phi_c V_n$ (k)	Rebar One Way Shear Usage, $V_u / \Phi_c V_n$	
8.54	51.39	16.6%	✓

ASSET: 98575, PLEASANT DALE  
 CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-I  
 PROJECT: 15440745

**REINFORCING ONE WAY SHEAR ANALYSIS - UPLIFT**

One Way Shear due to Uplift, $V_u$ (k)	One Way Shear Capacity due to Uplift, $\Phi_c V_n$ (k)	Rebar One Way Shear Usage, $V_u / \Phi_c V_n$	
7.97	49.45	16.1%	✔

**REINFORCING FLEXURE ANALYSIS - SHEAR**

Flexure Load, $M_{lv}$ (k-ft)	Distance to steel, $d_v$ (in)	Whitney Block, $a_v$ (in)	Strain in Rebar, $\epsilon_t$ (in/in)	Flexural Capacity, $\Phi_{bv} M_{nv}$ (k-ft)	Rebar Flexural Usage, $M_{lv} / \Phi_{bv} M_{nv}$	
31.28	26.062	1.765	0.0347	203.96	15.3%	✔

**REINFORCING FLEXURE ANALYSIS - UPLIFT**

Flexure Load, $M_{ut}$ (k-ft)	Depth to steel, $d_t$ (in)	Whitney Block, $a_t$ (in)	Strain in Rebar, $\epsilon_t$ (in/in)	Flexural Capacity, $\Phi_{bt} M_{nt}$ (k-ft)	Rebar Flexural Usage, $M_{ut} / \Phi_{bt} M_{nt}$	
27.76	20.062	1.882	0.0242	206.51	13.4%	✔

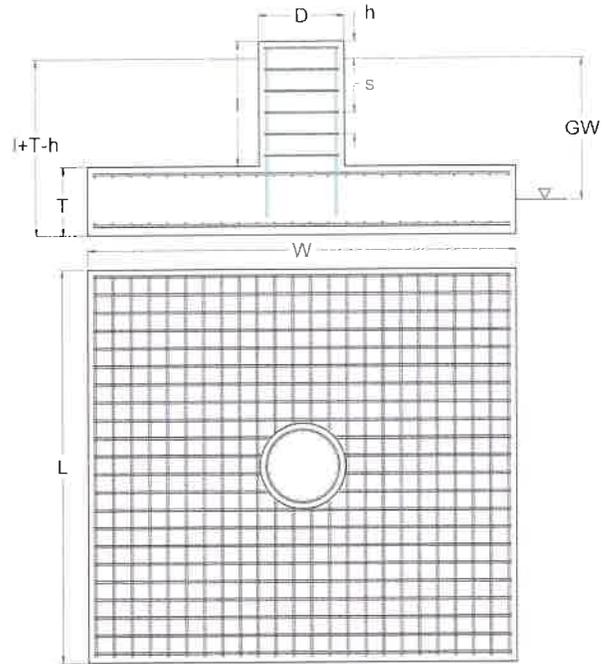
## MAT & PIER FOUNDATION ANALYSIS (NODE 1)

### APPLIED GLOBAL REACTIONS

Moment (k-ft)	Axial (k)	Shear (k)
0.00	81.04	0.33

### FOUNDATION PARAMETERS

Mat Length:	L	6	ft
Mat Width:	W	6	ft
Mat Thickness:	T	1.5	ft
Base Depth:	L+T-h	5	ft
Pier Shape:		Round	
Pier Diameter:	D	2.5	ft
Pier Height above Grade:	h	0.5	ft
Concrete Compressive Strength:		3,000	psi
Mat Bottom Rebar:		(12) #6 bars [60 ksi]	
Pier Vertical Rebar:		(6) #7 bars [60 ksi]	
Pier Rebar Ties:	s	#3 bars @ 12.0" c/c [60 ksi]	
Rebar Clear Cover:		3.0	in
Tower Eccentricity:	ecc	0	ft
Tower Leg Count		1	



### SOIL PARAMETERS

Water Table Depth [BGL]:	GW	ft
Soil Unit Weight:	110	pcf
Ultimate Skin Friction:	650	psf
Ultimate Bearing Pressure:	6,750	psf
Bearing Pressure Type:	Gross	
Coefficient of Shear Friction:	0.25	

### SOIL STRENGTH ANALYSIS

Soil Strength Reduction Factor, $\Phi_s$	Uplift Strength Reduction Factor, $\Phi_s$	Asset Dead Load Factor	Dead Load Factor
0.6	0.75	1.2	1.2

### SOIL OVERTURNING ANALYSIS

Design Moment, $M_{u,Design}$ (k-ft)	Nominal Overturning Capacity, $\Phi_m M_n$ (k-ft)	Soil Overturning Usage, $M_{u,Design} / \Phi_m M_n$
1.82	336.42	0.5% <span style="float: right;">✔</span>

### SOIL BEARING ANALYSIS

Net Bearing Pressure, $P_{u,Net}$ (psf)	Nominal Bearing Capacity, $\Phi_b P_n$ (psf)	Bearing Pressure Controlling Load Direction	Soil Bearing Usage, $P_{u,net} / \Phi_b P_n$
3,033.00	4,050.00	Parallel to Pad Edge	74.9% <span style="float: right;">✔</span>

### SOIL SLIDING SHEAR ANALYSIS

Applied Shear Force, $V_u$ (k)	Friction Resistance (k)	Passive Pressure (psf)	Passive Pressure Resistance (k)	Nominal Shear Capacity, $\Phi_s V_n$ (k)	Soil Sliding Shear Usage, $V_u / \Phi_s V_n$
0.33	22.64	467.5	4.21	16.11	2.0% <span style="float: right;">✔</span>

**MAT REINFORCING STEEL STRENGTH ANALYSIS**

Steel Elastic Modulus, E (ksi)	Strength Bending/Tension Reduction Factor, $\Phi_b$	Strength Shear Reduction Factor, $\Phi_v$	Strength Compression Reduction Factor, $\Phi_c$
29,000	0.9	0.75	0.65

**MAT REINFORCING ONE WAY SHEAR ANALYSIS**

One Way Design Shear, $V_u$ (k)	Nominal One Way Shear Capacity, $\Phi_c V_n$ (k)	One Way Shear Controlling Load Direction	Mat One Way Shear Usage, $V_u / \Phi_c V_n$
7.35	50.72	Diagonal to Pad Edge	14.5% <input checked="" type="checkbox"/>

**MAT REINFORCING PUNCHING SHEAR ANALYSIS**

Punching Shear Design Stress, $v_u$ (psi)	Nominal Punching Shear Capacity, $\Phi_c V_n$ (psi)	Mat Punching Shear Usage, $v_u / \Phi_c V_n$
36.7	164.3	22.3% <input checked="" type="checkbox"/>

**MAT REINFORCING MOMENT TRANSFER ANALYSIS**

Moment Transfer Effective Flexural Width, $w_f$ (in)	Neutral Axis Depth (in)	Pier Moment at Joint, $M_{jt}$ (k-in)	Nominal Moment Transfer Capacity, $\Phi M_{sc,f}$ (k-in)	Mat Moment Transfer Usage, $0.6 M_{jt} / \Phi M_{sc,f}$
7.00	1.86	0.00	4,822.8	0.0% <input checked="" type="checkbox"/>

**MAT REINFORCING FLEXURE ANALYSIS - LOWER STEEL**

Factored Moment, $M_u$ (k-ft)	Nominal Flexural Capacity, $\Phi M_n$ (k-ft)	Flexural Steel Controlling Load Direction	Mat Lower Rebar Flexure Usage, $M_u / \Phi M_n$
25.40	321.16	Parallel to Pad Edge	7.9% <input checked="" type="checkbox"/>

**PIER REINFORCING STEEL STRENGTH ANALYSIS**

Rebar Cage Diameter (in)	Steel Elastic Modulus, E (ksi)	Strength Bending/Tension Reduction Factor, $\Phi_b$	Strength Shear Reduction Factor, $\Phi_v$	Strength Compression Reduction Factor, $\Phi_c$
22.38	29,000	0.9	0.75	0.65

**PIER REINFORCING MOMENT ANALYSIS**

Design Moment, $M_u$ (k-ft)	Nominal Moment Capacity, $\Phi_b M_n$ (k-ft)	Bending Reinforcement Ratio	Pier Rebar Flexure Usage, $M_u / \Phi_b M_n$
1.32	181.24	0.005	0.7% <input checked="" type="checkbox"/>

**PIER REINFORCING COMPRESSION ANALYSIS**

Design Compression, $P_u$ (k)	Nominal Compressive Capacity, $\Phi_p P_n$ (k)	Pier Rebar Compressive Usage, $P_u / \Phi_p P_n$
81.04	951.24	8.5% <input checked="" type="checkbox"/>

**PIER REINFORCING SHEAR ANALYSIS**

Design Shear, $V_u$ (k)	Nominal Shear Capacity, $\Phi_v V_n$ (k)	Pier Rebar Shear Usage, $V_u / \Phi_v V_n$
0.33	81.20	0.4% <input checked="" type="checkbox"/>

BEFORE THE SEWARD COUNTY NEBRASKA COUNTY COMMISSIONERS

IN THE MATTER OF EQUIPMENT MODIFICATIONS/UPGRADES AT EXISTING SITE  
REQUESTED USE: EQUIPMENT MODIFICATION/UPGRADE PERMIT #TU-01-2026  
APPLICANT: American Tower & AT&T  
CURRENTLY ZONED: A-1

This matter came before the Seward County Commissioners at the request of the applicant. A public hearing was held on the 3rd day of March 2026. Notice of said hearing was publicized on the 25th day of February 2026.

The Seward County Commissioners recommends to:

- Approve the Wireless Upgrade or Equipment Add on to Existing Structure
- Deny the Wireless Upgrade or Equipment Add on to Existing Structure

With a roll call vote of:  For  Against  Absent Not Voting

Upon review of all necessary facts, the County Commissioners make the following findings:

1.  The use, in all other respects, conforms to the applicable regulations of the district in which it is located.
2.  The use will have adequate water and sewer facilities.
3.  The use will be in harmony with the character of the area and the most appropriate use of the land.
4.  The establishment, maintenance, or operation of the conditional use will not be detrimental to or endanger the public health, safety, moral, comfort, or general welfare of the county.
5.  The conditional use will not be injurious to the use and enjoyment of other property in the immediate vicinity for the purpose already permitted, nor substantially diminish and impair property values within the neighborhood.
6.  The establishment of conditional use will not impede the normal and orderly development of the surrounding property for uses permitted in the district.
7.  Adequate utilities, access roads, and drainage facilities have been or are being provided.
8.  That adequate measures have been or will be taken to provide ingress and egress so designed as to minimize traffic congestion in the public streets.
9.  The use does not include noise, which is objectionable due to volume, frequency, or beat unless muffled or otherwise controlled

10. \_\_\_ The use does not involve any pollution of the air by fly-ash, dust, vapors, or other substance which is harmful to health, animals, vegetation, or other property or which can cause soiling, discomfort, or irritation.
11. \_\_\_ The use does not involve any malodorous gas or matter, which is discernible on any adjoining lot or property.
12. \_\_\_ The use does not involve any direct or reflected glare, which is visible from any adjoining property or from any public street, road, or highway.
13. \_\_\_ The use does not involve any activity substantially increasing the movement of traffic on public streets unless procedures are instituted to limit traffic hazards and congestion.
14. \_\_\_ The use does not involve any activity substantially increasing the burden on any public utilities or facilities unless provisions are made for any necessary adjustments.

Further, the County Commissioners recommend the following specific conditions that are necessary or desirable to address the most appropriate use of the land, the conservation and stabilization of the value of property, the provision of adequate open space for light and air, concentration of populations, congestion of public streets, and the promotion of the general health, safety, welfare, convenience, and comfort of the public:

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Dated this 3rd day of March 2026.

\_\_\_\_\_  
County Commissioner Chair

\_\_\_\_\_  
Zoning Administrator

**RESOLUTION NO \_\_\_\_\_ OF THE SEWARD COUNTY BOARD OF COMMISSIONERS**

**WHEREAS** American Tower & AT&T have applied for a Wireless upgrade or equipment add on to an existing structure permit located in the North 1/2 of section 29, township 10 North, range 4 East of the 6pm, to remove 12 antennas, 9 radios, 3 TMA units and associated cabling and to install 9 antennas, 12 radios, 1 fiber trunk, 2 DC trunks and associated cabling.

**WHEREAS** The Seward County Planning Commission held a meeting on February 23, 2026, to consider the Wireless upgrade or equipment add on to existing structure permit, and

**WHEREAS** the Planning Commission recommended approval of the Wireless upgrade or equipment add on to existing structure permit with a vote of 7 For, 0 against, and 2 Absent and Not Voting, and

**WHEREAS** \_\_\_ No one appeared to oppose the Wireless Upgrade.

\_\_\_ Individuals appeared to oppose the Wireless Upgrade.

\_\_\_ No one appeared to support the Wireless Upgrade.

\_\_\_ Individuals appeared to support the Wireless Upgrade.

\_\_\_ Individuals appeared without commitment, and

**THEREFORE, BE IT RESOLVED** that the Seward County Board of Commissioners do hereby Approve \_\_\_\_\_, Deny \_\_\_\_\_ the Wireless upgrade or equipment add on to existing structure permit with Resolution NO: \_\_\_\_\_.

**THEREFORE, BE IT FURTHER RESOLVED** that approval is subject to the following conditions \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

MOTION BY: \_\_\_\_\_

SECONDED BY: \_\_\_\_\_

ROLL CALL

AYES: \_\_\_\_\_ NAYS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Chair, Board of Commissioners

March 3, 2026

ATTEST: \_\_\_\_\_

Brandy Johnson, Seward County Clerk

Proposal

MCNEIL MASONRY  
402-314-9218  
SHAWN MCNEIL

PROPOSAL NO. 238	DATE 12-5-25
BID NO.	ARCHITECT
WORK TO BE PERFORMED AT: SEWARD COURTHOUSE	
ADDRESS 261 S. 8TH ST	
CITY, STATE SEWARD NEBR.	
DATE OF PLANS	

TO  
ERIC / SEWARD COURTHOUSE

ADDRESS  
261 S. 8TH ST

CITY, STATE  
SEWARD, NEBR.

PHONE NO.  
450-3979

We hereby propose to furnish the materials and perform the labor necessary for the completion of \_\_\_\_\_

Area below for additional description and/or drawings:

SEWARD COURTHOUSE  
GRIND AND TUCKPOINT ALL CRACKS IN MORTAR  
SIX FEET UP ON ENTIRE BLOG.

TOTAL - 8,000

All material is guaranteed to be as specified, and the above work to be performed in accordance with the drawings and specifications submitted for above work and completed in a substantial workmanlike manner for the sum of \_\_\_\_\_ Dollars (\$) \_\_\_\_\_ ) with payments to be made as follows.

Any alteration or deviation from above specifications involving extra costs will be considered only upon written order, and will become an extra charge unless and where the estimate. All agreements contingent upon strikes, lockouts, or delays beyond our control.

Respectfully submitted \_\_\_\_\_  
Per \_\_\_\_\_  
Note - This proposal may be withdrawn by us if not accepted within \_\_\_\_\_ days.

**ACCEPTANCE OF PROPOSAL** The above prices, specifications, and conditions are satisfactory and are hereby accepted. You are authorized to do the work as specified. Payments will be made as outlined above.  
Signature Shawn B. McNeil  
Signature \_\_\_\_\_



**Stutzman Sealants**  
& S O N S L L C

**Seward Courthouse**

**10/28/25**

**To remove mortar & tuckpoint areas of missing and cracked mortar throughout bottom portion of courthouse.**

**Bid: \$8,000.00**

**Please contact Brandon at 402.314.1023 if you have any questions.**

**Thank you!**

**Seward County Courthouse**  
**Attn: Eric Hofer**  
**529 Seward Avenue**  
**Seward, NE 68434**

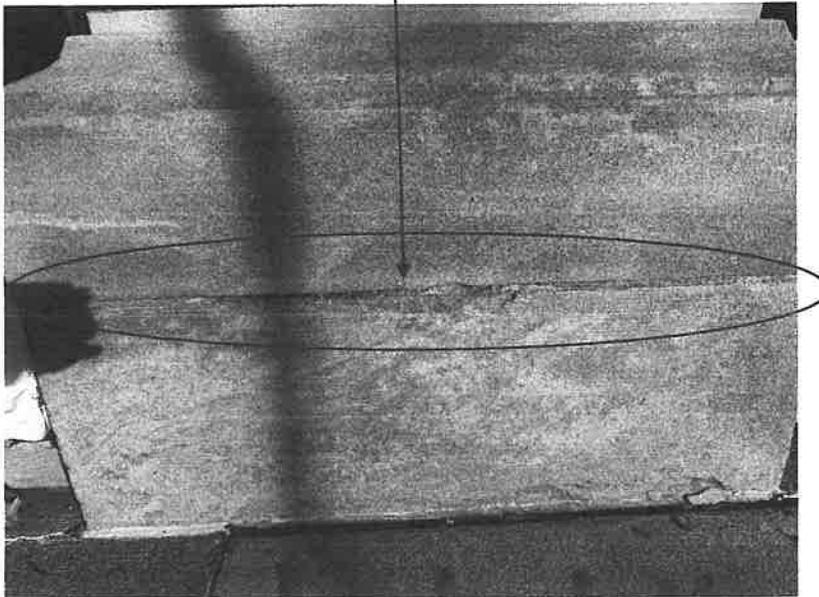
WE (Commercial Restoration Group) Have prepared a proposal for: **Seward County Courthouse**  
**Tuckpointing**

**Scope of Work:** We propose to furnish and install all necessary labor, materials, equipment, supervision, and insurance to complete the following:

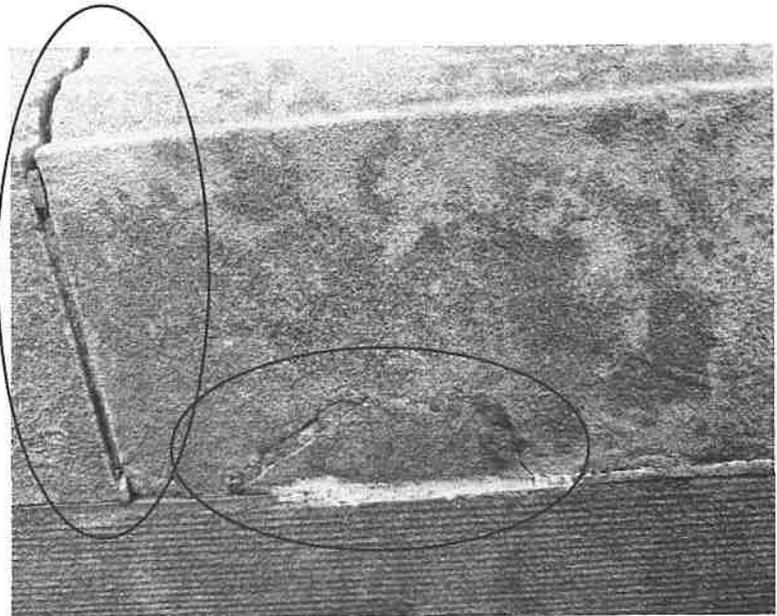
1. Our craftsmen will tuckpoint approximately 305 LF of deteriorated mortar and repair approximately 10 SF of deteriorated sandstone blocks. We will start by grinding the deteriorated mortar joints out, clean out the voids, install Type N mortar strike the mortar and finally wash off the residue. We will then cut out deteriorated sandstone areas up to 2" in depth, clean out the voids, install Conproco Matrix into the void and finish as closely as possible to existing finish. Once patches are completed we will wash the areas of any residue.

**Total: \$5,600.00**

Mortar Joints to be replaced.



Mortar Joints to be replaced  
and repair to be made.



**Project Specific Qualifications**

1. Normal working hours, Monday through Friday have been used for this proposal.
2. Written approval of color selections by the customer are required before any materials will be ordered and before scheduling of work.
3. Permits are not included for our portion of the work.
4. Barricades/Sidewalk protection will be provided.

Date Accepted: \_\_\_\_\_

Title: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Printed Name: \_\_\_\_\_

By: \_\_\_\_\_

Kevin Bailey

Title: Owner/Estimator

**General Terms and Conditions**

**1. CHANGES IN THE WORK.** It is understood that the type of work called for in this Agreement may require changes as the work progresses. Contractor will perform changes in the work (including changes requested by Customer) only after consultation with the Customer, and execution of a written agreement covering the changes in the scope of the work including any changes in Contract Price and time for performance.

~~2. PAYMENT TERMS. Payment of the Contract Price, shall be made monthly upon receipt of an invoice for a portion of the Work performed during that month. If any invoice remains unpaid to the 20<sup>th</sup> day following receipt by Customer, Customer agrees to pay Contractor interest at the rate of ten percent (10%) per annum from the due date until paid.~~ *KP 2/26/26*

**3. TAXES.** Contractor's price includes applicable taxes imposed on the work or materials included in this contract, to the extent required by law to be collected by contractor. Such taxes may be separately itemized on invoices.

**4. SECURITY FOR PAYMENT.** Customer understands that if Contractor is not paid it can assert a lien against the property. Contractor will issue waivers of its lien against the property. Contractor will issue waivers of its lien rights only to the extent it receives payment.

**5. DELAYS AND CLAIMS.**

**A. Liability Only for Acts Within Contractor's Control.** Contractor will be excused and will not be liable for any damages, whether direct, incidental or consequential, for any delay or failure in performance (including but not limited to delays due to strikes, fires, accidents, acts of God and delays in performance by Contractor's suppliers and carriers) except to the extent caused by, or within the direct control of Contractor.

**B. Notice of Claims, When.** Any claims by Customer against Contractor must be presented in writing with particulars to Contractor within 20 days after they arise; otherwise Contractor shall have no responsibility or liability for such claims

**6. INSURANCE AND INDEMNIFICATION.**

**A. Customer shall purchase and maintain property insurance on its property and liability insurance to cover the acts or omissions of its agents and employees at the Site.**

**B. Contractor maintains insurance as shown on the attached Insurance Addendum. A certificate showing coverage limits and Carriers will be issued to Customer prior to beginning work at the Site.**

**C. Contractor agrees to indemnify Customer from any loss, damage or expense which Customer suffers as a result of claims asserted against Customer by third parties (including Contractors employees) which arise out of Contractors work at the Site, to the extent caused by the negligent acts or omissions of Contractor or anyone for whom Contractor is responsible. Contractor agrees to indemnify Contractor for any loss, damage or expense, which Contractor suffers as a result of claims asserted against Contractor by third parties (including Customer's employees) which arise out of Customer's activities at the Site, to the extent caused by the negligent acts or omissions of Customers or anyone for whom Customer is responsible.**

**7. LIMITED WARRANTY AND EXCLUSIVE REMEDIES.**

**A. Workmanship.** For a period of one year from the date of substantial completion of Contractor's Work covered hereby, Contractor warrants that it will promptly repair or replace any improper or defective workmanship performed by Contractor under this contract; provided that Contractor has been paid for all work performed, and Contractor has received written notice from Customer of any such defective workmanship within 20 days after Customer first becomes aware thereof (provided such is within the aforesaid one-year period). Contractor will not pay for any inspections or repairs performed by others prior to receipt of notice and a reasonable opportunity to make repairs, if warranted.

**B. Warranty on Materials.** Contractor warrants that it will use only new materials unless specified otherwise in this contract, and will deliver to Customer standard warranties as issued by the manufacturer of the materials, if available. Contractor shall have no obligation under any such manufacturer's warranty, and shall not be required to seek changes to terms of such standard warranties.

**C. Disclaimer of Other Warranties.** THE PROVISIONS IN PARAGRAPHS A AND B ARE THE EXCLUSIVE WARRANTIES PROVIDED TO CUSTOMER AND ARE EXPRESSLY IN LIEU OF ANY OTHER EXPRESS OR IMPLIED WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE.

**D. Mold Exclusion.** Contractor specifically excludes from any and all warranties connected with this Work any warranty against the growth, infestation or spread of mold, mildew, or other fungal, bacterial or biological substance however caused.

**8. OBLIGATIONS OF CUSTOMER AT SITE OF WORK**

**A. Site Conditions.** For work performed by Contractor at the site, Customer shall provide without charge to Contractor (i) sufficient and proper space for handling and storing the materials and equipment of Contractor; (ii) sufficient power and water for the performance of the Work; (iii) removal of all obstructions to perform the Work as economically as possible.

**B. Unanticipated Conditions.** If Contractor encounters unanticipated conditions or structural features, not reasonably ascertainable upon such inspection or testing as was allowed by Customer, Contractor will so advise Customer, and the parties will work out a mutually acceptable adjustment to the Work, the Contract Price, and the time of completion prior to continuation of the work.

**C. Asbestos, Lead, Mold and PCB.** Contractor specifically excludes the abatement of any hazardous material, including but not limited to asbestos, lead, mold or polychlorinated biphenyl ("PCB"). Customer warrants that the Work will not expose Contractor's workers or any other persons to contract with or exposure to such substances. If Contractor encounters material reasonably believed to be asbestos, lead, mold or PCB or other hazardous substance which has not been rendered harmless, Contractor shall immediately stop Work in the area affected and report the condition to the Customer. The Work in the affected area shall not thereafter be resumed except by written agreement of the Customer and Contractor. The Work in the affected area shall be resumed in the absence of such hazardous substance, or when it has been rendered and so agreed in writing by the Customer and Contractor. All cost of testing for, removal of, or to render asbestos, lead, mold of PCB harmless, shall be born by Customer.

**9. DEFAULT BY CUSTOMER.** If Customer fails, or is unable for any reason, to make any payment when due, or prevents Contractor from completing its Work in a timely and uninterrupted manner, or fails to comply with any term, condition, or provision of this Contract, Contractor may resort to any remedy available to it by this Contract, or by law.

**10. REMEDIES OF CONTRACTOR.** In case of any default by Customer, including but not limited to failure to make timely payment, Contractor may, after reasonable notice and opportunity to cure, which need not exceed seven (7) days; (a) suspend all work at the site (b) demand payment of the contract price, less a sum equal to Contractor's cost of any labor and materials not yet furnished or ordered, (c) remove its equipment and any unused material from the Premises, (d) terminate the contract and demand payments referred to in item (b) above and, (e) pursue such other or additional remedies as may be provided by law.

**11. DISPUTE RESOLUTION.** The parties shall attempt to resolve disputes between themselves, using more senior officials of their respective organizations if necessary, and prior to the institution of any legal action, they agree to meet with a mutually agreeable or, upon mutual application, court appointed mediator for a minimum of one five hour session. In any such dispute resolution, each party shall bear their own expenses. In the event of any legal action to enforce the terms of this Contract, the prevailing party shall be entitled to recover reasonable attorney's fees from the other.

**12. HOURS OF WORK.** Contractor is obligated to perform the Work only during its regular working hours and has no responsibility to work beyond such regular hours. All time beyond regular hours which is required by Customer shall be paid for by Customer in addition to the contract price, at applicable premium rates of pay.

**13. ENTIRE AGREEMENT.** This Contract constitutes the entire agreement between the parties. No representations, statements, correspondence or discussions between Contractor and Customer or Customer's Representative shall be a part of this Contract unless specifically referred to in this Contract.

**14. MODIFICATION.** No waiver, alteration or modification of the terms and conditions of this Contract shall be binding unless said waiver, alteration or modification be in writing and signed by a duly authorized representative of each party.

RESOLUTION NUMBER \_\_\_\_\_

SEWARD COUNTY BOARD OF COMMISSIONERS

WHEREAS, Neb. Rev. Stat 39-2115 through 39-2119 require annual development and filing with the Nebraska Board of Public Roads Classifications and Standards (NBCS) a One- and Six-Year Plan of highway, road, and street improvements based on a priority of needs and calculated to contribute to the orderly development of an integrated statewide system of highway, roads, and streets.

WHEREAS, a One- and Six-Year Plan was prepared and proposed to the governing body.

WHEREAS, an advanced notice was published in the local newspaper, stating that a public hearing would be held on the proposed One- and Six-Year Plan in the County Commissioner's Room in the Seward County Courthouse, Seward, Nebraska, on Tuesday, February 24<sup>th</sup>, 2026, at 9:15 am.

WHEREAS, an advanced notice was posted at the following places where it was likely to attract attention: Seward Post Office, Seward County Courthouse, Seward City Hall, and the Seward Memorial Library.

WHEREAS, a public hearing was conducted on the proposed One- and Six-Year Plan, as stated in the advance notices, on Tuesday, February 24<sup>th</sup>, 2026, at 9:15am.

THEREFORE, BE IT RESOLVED by the Board of Commissioner's of Seward County, Nebraska, that the aforementioned approved One- and Six-Year Plan is hereby adopted for submittal to the Nebraska Board of Public Roads Classifications and Standards (NBCS).

Adopted this \_\_\_\_\_ day of March, 2026 at Seward, Nebraska.

MOTION BY: \_\_\_\_\_

SECONDED BY: \_\_\_\_\_

AYES:

NAYS:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
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Chairperson, Board of Commissioners

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Chairperson, Board of Commissioners

Attest: \_\_\_\_\_  
Brandy Johnson  
Seward County Clerk



**SEWARD COUNTY**  
**JOB DESCRIPTION**

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**Position:** Road Construction Crew Member  
**Last Revised:** Jan 2026  
**Job Status:** Non-exempt; Full-time  
**Reports to:** Highway Superintendent & Assistant Highway Superintendent  
**Supervisory Responsibilities:** None

**I. GENERAL FUNCTIONS**

The Road Construction Crew is responsible for operating heavy equipment in a safe and effective manner to ensure roadways are accessible, safe, and in good operating condition. Performs skilled and semi-skilled duties associated with the construction and repair of county roads and rights-of-way.

**II. ESSENTIAL DUTIES & RESPONSIBILITIES**

- Undertake laboring duties in the construction of gravel roads in accordance with a specified time frame and under the instructions and guidance of the Highway Superintendent and Assistant Highway Superintendent.
- Operate County owned motor vehicles and heavy equipment in a safe manner.
- Remove snow and trees from county roads and county right of way as needed.
- Under general supervision, operate maintenance and transportation equipment in a variety of road maintenance activities including excavating, grading, trenching, loading, and related operations according to required standards.
- Perform semiskilled and skilled activities while operating motor graders, excavators, dozers, scrapers and tractors during road construction operations.
- Perform general and preventative maintenance on vehicles and equipment safely, correctly, and in a timely manner. This includes equipment services, greasing, and changing tires.
- Loads and unloads construction equipment.
- Records vehicle maintenance and usage and keeps logs to record fuel and oil consumption, machine hours, and projects, etc.
- Operate grader controls to regulate height and angle of the grader blade and lower scarifier to loosen packed soil to permit grading.
- Use graders, loaders, excavators, dozers, scrapers, tractors, heavy equipment attachments, and trucks for grading, spreading, and compacting materials for gravel road construction.
- Placing signs and barricades to direct traffic around construction zone safely.
- Clearing rights-of-way, digging ditches, removing brush/trees, and preparing the base for new roads or repairs.

#### **IV. REQUIRED KNOWLEDGE, SKILLS, ABILITIES**

- Two years' experience operating heavy equipment, or the type of equipment used in work duties required of this position as stated in Essential Duties & Responsibilities.
- Understand, communicate, and carry-out written and oral instructions.
- Establish and maintain effective working relationships with the public, co-workers, supervisors, and others.
- Proficient in methods, techniques, and practices used in the construction and maintenance of roads, culverts, tree removal, and snow removal.
- Understand the operation and maintenance procedures for heavy equipment used in conjunction with work duties of this position.
- Recognize hazardous working conditions and work effectively using prescribed safety practices.
- Work in a harmonious and team-oriented manner with all Seward County Employees.
- Thorough knowledge of basic mathematics.

#### **V. DESIRABLE EXPERIENCE**

- Experience in understanding road maintenance and road construction.

#### **VI. MINIMUM QUALIFICATIONS**

- High school diploma or equivalent.
- Must be 19 years of age
- Valid Nebraska driver's license
- Valid Commercial Driver's License (CDL)-Class A at hire or within 6 months of start date.
- Must be able to legally work in the U.S.
- Must be able to lift a minimum of 75 lbs.

#### **VII. NECESSARY SPECIAL REQUIREMENTS**

- Must maintain an acceptable level of attendance, punctuality, and availability as determined by the county; must work such regularly scheduled hours as are determined by the county; must work any required overtime, weekends, and holidays.
- Must work at the assigned work site.
- Must travel as required.

#### **VIII. WORKING CONDITIONS & PHYSICAL EFFORT**

- Frequently required to stand and walk.
- Use hands to handle or operate objects, tools or controls.
- Reach with hands and arms.
- Required to sit, climb, crawl, crouch, grasp, lift, kneel, pull, push, reach, stand, stoop, and walk.
- Talk and listen on a two-way radio.
- Specific vision abilities required by this job include close vision, distance vision, color vision, peripheral vision, depth perception, and the ability to adjust focus.

- Perform work in both an indoor garage facility and outdoors in all types of weather conditions and temperature variations.
- Exposed to grease, fuel and other equipment materials, dirt, sun, and inclement weather conditions.
- Normal hazards are present in working with machinery and vehicles.
- Frequently works near moving mechanical parts and is occasionally exposed to wet and/or humid conditions, and vibration
- Noise level in the work environment is usually moderate and can sometimes be loud.

**IX. OTHER**

Please note this job description is not designed to cover or contain a comprehensive listing of activities, duties or responsibilities that are required of the employee for this job. Duties, responsibilities and activities may change at any time with or without notice.

**Employee Acknowledgment of Job Description**

This job description supersedes all previous job descriptions written for this position. I understand that this is a description of my current job duties and responsibilities. I understand that neither this nor the County's Personnel Manual is a contract for employment.

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Employee Signature

\_\_\_\_\_

Date

\_\_\_\_\_

HR Director/ Supervisor Signature

\_\_\_\_\_

Date

## Grade Crew Yearly Plan

- April 2026—Old Mill Rd from 196<sup>th</sup> to 140<sup>th</sup>. Road top, shoulders, and ditches (4/5 weeks)
- May 2026—Fletcher Rd from 210<sup>th</sup> to 196<sup>th</sup>. Total rebuild and reestablish center line of road. (4 weeks)
- June 2026—McKelvie Rd from 196<sup>th</sup> to 182<sup>nd</sup>. Rebuild and establish ditches. (3 weeks)
- July 2026—Pioneers Rd from 140<sup>th</sup> to 175<sup>th</sup>. Pioneers to Old Cheney on 168<sup>th</sup> and Old Cheney from 168<sup>th</sup> to 175<sup>th</sup>. Rebuild and clean ditches. (6 weeks)
- August 2026—Yankee Hill from 140<sup>th</sup> to 154<sup>th</sup>. Rebuild road and ditches. (2/3 weeks)
- September 2026—Rokeby from 308<sup>th</sup> to 322<sup>nd</sup>. Rebuild road and ditched. (2 weeks)
- October 2026—Denton Rd from 420<sup>th</sup> to 462<sup>nd</sup>. Clean ditches. (3 weeks)
- November 2026—Overflow month and project catch up. Update The Board on completed roads and next year's roads.
- December 2026—Clearing/Grubbing trees for roads needing done the next year, cleaning out ditches, servicing/cleaning equipment, snow removal as needed.
- January 2027—Clearing/Grubbing trees for roads needing done the next year, cleaning out ditches, servicing/cleaning equipment, snow removal as needed.
- February 2027—Clearing/Grubbing trees for roads needing done the next year, cleaning out ditches, servicing/cleaning equipment, snow removal as needed.
- March 2027—Clearing/Grubbing trees for roads needing done the next year, cleaning out ditches, servicing/cleaning equipment, snow removal as needed.

\*All project times are rough estimates.

\*Depending on weather in April, projects might have to start in May.

# GRADE CREW BUDGET

**April 1-June 30 (3 months/14 weeks/560 hrs)**

EQUIPMENT	COST
Grader	\$370,000.00
Contour Packer	\$32,000.00
Water Truck/Trailer	\$80,000.00
Used Pickup	\$20,000.00
<b>EQUIPMENT TOTAL</b>	<b>\$502,000.00</b>

PERSONNEL PAY	1 employee	4 employees	5 employees
(\$25/hr x 560hrs)	\$14,000.00	\$56,000.00	\$70,000.00
BENEFITS			
Retirement (6.75% of gross)	\$945.00	\$3,780.00	\$4,725.00
FICA (7.65% of gross)	\$1,071.00	\$4,284.00	\$5,355.00
Health Insurance (county cost per month \$2338.76)	\$7,016.28	\$28,065.12	\$35,081.40
<b>PAY &amp; BENEFITS TOTAL</b>	<b>\$23,032.28</b>	<b>\$92,129.12</b>	<b>\$115,161.40</b>
<b>PAY, BENEFITS &amp; EQUIP TOTAL</b>	<b>\$525,032.28</b>	<b>\$594,129.12</b>	<b>\$617,161.40</b>

# GRADE CREW BUDGET

**July 1-June 30 (1 year/52 weeks/2080 hrs)**

<u>PERSONNEL PAY</u> (\$25/hr x 2080hrs)	<u>1 employee</u>	<u>4 employees</u>	<u>5 employees</u>
	\$52,000.00	\$208,000.00	\$260,000.00
<u>BENEFITS</u>			
Retirement (6.75% of gross)	\$3,510.00	\$14,040.00	\$17,550.00
FICA (7.65% of gross)	\$3,978.00	\$15,912.00	\$19,890.00
Health Insurance (county cost per month \$2338.76)	\$7,016.28	\$28,065.12	\$35,081.40
<b>PAY &amp; BENEFITS TOTAL</b>	<b>\$66,504.28</b>	<b>\$266,017.12</b>	<b>\$332,521.40</b>

## BUDGET FOR 3% INCREASE

<u>PERSONNEL PAY</u> (\$25/hr x 2080hrs)	<u>1 employee</u>	<u>4 employees</u>	<u>5 employees</u>
	\$53,560.00	\$214,240.00	\$267,800.00
<u>BENEFITS</u>			
Retirement (6.75% of gross)	\$3,615.30	\$14,461.20	\$18,076.50
FICA (7.65% of gross)	\$4,097.34	\$16,389.36	\$20,486.70
Health Insurance (county cost per month \$2338.76)	\$7,016.28	\$28,065.12	\$35,081.40
<b>PAY &amp; BENEFITS TOTAL</b>	<b>\$68,288.92</b>	<b>\$273,155.68</b>	<b>\$341,444.60</b>

## BUDGET FOR "TEMP CONTRACTOR GRADE CREW"

**(8months/35 weeks/1400 hrs)**

<u>APRIL 1-NOVEMBER 30</u>	<u>1 temp</u>	<u>4 temps</u>	<u>5 temps</u>
\$35/hr with NO Benefits	<b>\$49,000.00</b>	<b>\$196,000.00</b>	<b>\$245,000.00</b>

# Seward County E-911 Road Map

Old Mill RD - 196<sup>th</sup> - 140<sup>th</sup> (4+5 weeks)

Fletcher RD - 210<sup>th</sup> - 196<sup>th</sup> (3 weeks)

McKelvie RD - 196<sup>th</sup> - 182<sup>nd</sup> (3 weeks)

Yankee Hill - 140<sup>th</sup> - 154<sup>th</sup> (2-3 weeks)

Pioneers RD - 140<sup>th</sup> - 175<sup>th</sup> (5 weeks)

Old Cheney RD - 175<sup>th</sup> - 168<sup>th</sup> (3 weeks)  
 Pioneers to Old Cheney

Denton RD - 420<sup>th</sup> - 462 (3 weeks)

Rokeby Rd - 308th - 322nd (2 weeks)

