



# TOWN OF JACKSON PLANNING & BUILDING DEPARTMENT

## TRANSMITTAL MEMO

### Town of Jackson

- ☒ Public Works/Engineering
- ☒ Building
- ☐ Title Company
- ☒ Town Attorney
- ☐ Police

### Joint Town/County

- ☐ Parks and Recreation
- ☐ Pathways
- ☐ Joint Housing Dept

### Teton County

- ☐ Planning Division

- ☐ Engineer
- ☐ Surveyor- *Nelson*
- ☐ Assessor
- ☐ Clerk and Recorder
- ☐ Road and Levee

### State of Wyoming

- ☐ Teton Conservation
- ☐ WYDOT
- ☐ TC School District #1
- ☐ Game and Fish
- ☐ DEQ

### Federal Agencies

- ☐ Army Corp of Engineers

### Utility Providers

- ☐ Qwest
- ☐ Lower Valley Energy
- ☐ Bresnan Communications

### Special Districts

- ☐ START
- ☒ Jackson Hole Fire/EMS
- ☐ Irrigation Company

|                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Date: October 31, 2025                                                                                                                                                         | <b>REQUESTS:</b><br><br>The applicant is submitting a request for a Basic Use Permit to modify existing wireless communication facility located at 275 N Willow Street, legally known PT. SW1/4SW1/4 SEC. 27, TWP. 41, RNG. 116 (CHURCH)<br><br>PIDN: 22-41-16-27-3-00-022<br><br>For questions, please call Andrew Bowen at 307-733-0440, x1306 or email to the address shown below. Thank you. |
| Item #: P25-200                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                  |
| Planner: Andrew Bowen<br><br>Phone: 307-733-0440 ext. 1306<br><br>Email: abowen@jacksonwy.gov                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Owner</b><br>Redeemer Lutheran Church<br>PO Box 1016<br>Jackson, WY 83001<br><br><b>Applicant:</b><br>Sarah Baird<br>Crown Castle<br>8020 Katy Freeway<br>Houston, TX 77024 |                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Please respond by: November 21, 2025 (with Comments)</b>                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                  |

**RESPONSE:** For Departments not using SmartGov, please send responses via email to [planning@jacksonwy.gov](mailto:planning@jacksonwy.gov)



8020 Katy Freeway  
Houston, TX 77024

Phone: (206) 336-3204  
www.crowncastle.com

October 16, 2025

Town of Jackson  
Planning Department  
150 E. Pearl Ave.  
Jackson, WY 83001

Via Email

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

RE: Request for Minor Modification to Existing Wireless Facility – Section 6409  
Site Address: 275 North Willow St, Jackson, Teton County, WY 83001  
Crown Site Number: 831885 / Crown Site Name: Jackson DT  
Customer Site Number: SL01206F / Application Number: 708594

On behalf of T-Mobile West LLC (“T-Mobile” or “Applicant”), Crown Castle USA Inc. (“Crown Castle”) is pleased to submit this request to modify the existing wireless facility noted above through the collocation, replacement and/or removal of the Applicant’s equipment as an eligible facilities request for a minor modification under Section 6409<sup>1</sup> and the rules of the Federal Communications Commission (“FCC”).<sup>2</sup>

Section 6409 mandates that state and local governments must approve any eligible facilities request for the modification of an existing wireless tower or base station that does not substantially change the physical dimensions of such tower or base station. Under Section 6409, to toll the review period, if the reviewing authority determines that the application is incomplete, it must provide written notice to the applicant within 30 days, which clearly and specifically delineates all missing documents or information reasonably related to whether the request meets the federal requirements.<sup>3</sup> Additionally, if a state or local government, fails to issue any approvals required for this request within 60 days, these approvals are deemed granted. The FCC has clarified that the 30-day and 60-day deadlines begins when an applicant: (1) takes the first step required under state or local law; and (2) submits information sufficient to inform the jurisdiction that this modification qualifies under the federal law<sup>4</sup>. Please note that with the submission of this letter and enclosed items, the thirty and sixty-day review periods have started. **Based on the date of this filing, the deadline for written notice of incomplete application is November 15, 2025, and the deadline for issuance of approval is December 15, 2025.**

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

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

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



8020 Katy Freeway  
Houston, TX 77024

Phone: (206) 336-3204  
[www.crowncastle.com](http://www.crowncastle.com)

The proposed scope of work for this project includes:

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

At the end of this letter is a checklist outlining the applicable substantial change criteria under Section 6409. Additionally, the following items are included in support of this request:

- Planning Permit Application
- Commercial Building Permit Application
- Letter of Authorization
- Structural Analysis
- Construction Drawings

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

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

Regards,

A handwritten signature in black ink that reads 'Sarah Baird'.

Sarah Baird  
Permitting Specialist, Tower Services  
Crown Castle, Agent for T-Mobile  
(206) 336-3204  
[Sarah.Baird@crowncastle.com](mailto:Sarah.Baird@crowncastle.com)



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

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

#### Criteria for Towers Outside of the Public Rights of Way

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

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



T-MOBILE SITE NUMBER: SL01206F

T-MOBILE SITE NAME: JACKSTON DOWNTOWN

SITE TYPE: STEALTH STRUCTURE

TOWER HEIGHT: 55'-0"

BUSINESS UNIT #: 831885

SITE ADDRESS: 275 NORTH WILLOW ST.  
JACKSON, WYOMING 83001

COUNTY: TETON

JURISDICTION: TOWN OF JACKSON, WY

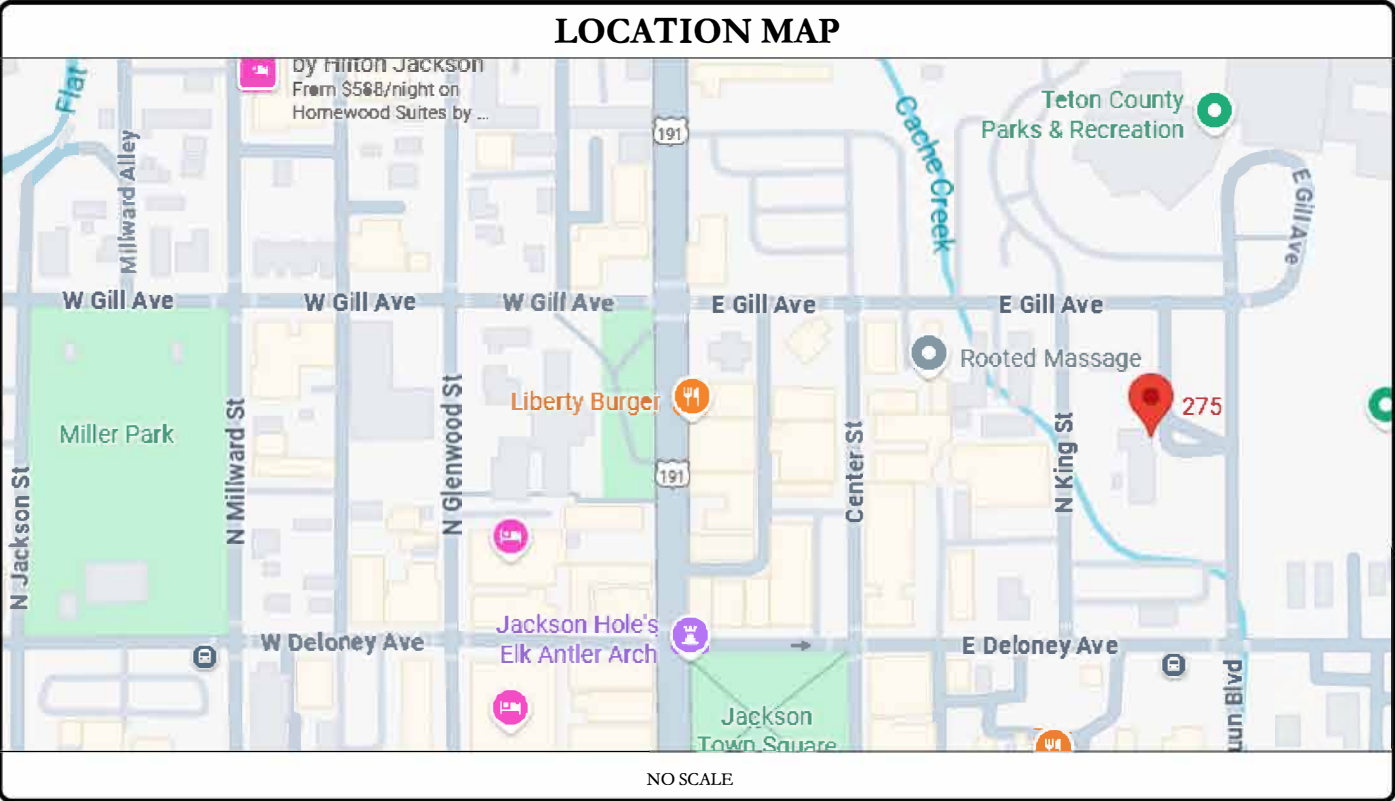
T-MOBILE ANCHOR

| SITE INFORMATION          |                                                                           |
|---------------------------|---------------------------------------------------------------------------|
| CROWN CASTLE USA INC.     | JACKSON DT                                                                |
| SITE NAME:                |                                                                           |
| SITE ADDRESS:             | 275 NORTH WILLOW ST.<br>JACKSON, WYOMING 83001                            |
| COUNTY:                   | TETON                                                                     |
| MAP/PARCEL #:             | ---                                                                       |
| AREA OF CONSTRUCTION:     | EXISTING                                                                  |
| LATTITUDE:                | 43° 28' 51.55"                                                            |
| LONGITUDE:                | -110° 45' 34.62"                                                          |
| LAT/LONG TYPE:            | NAD83                                                                     |
| GROUND ELEVATION:         | 6,236.5 FT.                                                               |
| CURRENT ZONING:           | UC - URBAN COMMERCIAL                                                     |
| JURISDICTION:             | TOWN OF JACKSON, WY                                                       |
| OCCUPANCY CLASSIFICATION: | U                                                                         |
| TYPE OF CONSTRUCTION:     | IIB                                                                       |
| A.D.A. COMPLIANCE:        | FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION                         |
| PROPERTY OWNER:           | REDEEMER LUTHERAN CHURCH<br>275 NORTH WILLOW ST.<br>JACKSON, WY 83001     |
| TOWER OWNER:              | CROWN CASTLE TOWERS 09 LL<br>2000 CORPORATE DRIVE<br>CANONSBURG, PA 15317 |
| CARRIER/APPLICANT:        | T-MOBILE<br>121 W. ELECTION RD., SUITE 330<br>DRAPER, UT 84020            |
| ELECTRIC PROVIDER:        | LOWER VALLEY ENERGY<br>(307) 885-3175                                     |
| TELCO PROVIDER:           | CENTURY LINK<br>(866) 642-0444                                            |

| PROJECT TEAM                             |                                                                          |
|------------------------------------------|--------------------------------------------------------------------------|
| A&E FIRM:                                | POD<br>11490 BLUEGRASS PARKWAY<br>LOUISVILLE, KY 40299<br>(502) 437-5252 |
| CROWN CASTLE USA INC. DISTRICT CONTACTS: | 2055 S. STEARMAN DRIVE<br>CHANDLER, AZ 85286                             |
|                                          | OLEG GAPANOV - AES<br>OLEG.GAPANOV@CROWNCastle.COM                       |
| T-MOBILE CONTACT:                        | KALAB COX<br>KALAB.COX@GMAIL.COM                                         |

| DRAWING INDEX                                                                                                                                                                                                                                                                         |                                          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|
| SHEET #                                                                                                                                                                                                                                                                               | SHEET DESCRIPTION                        |
| T-1                                                                                                                                                                                                                                                                                   | TITLE SHEET                              |
| T-2                                                                                                                                                                                                                                                                                   | GENERAL NOTES                            |
| C-1.1                                                                                                                                                                                                                                                                                 | SITE PLAN                                |
| C-1.2                                                                                                                                                                                                                                                                                 | EXISTING & FINAL EQUIPMENT PLAN          |
| C-2                                                                                                                                                                                                                                                                                   | EXISTING & FINAL TOWER PLAN              |
| C-3                                                                                                                                                                                                                                                                                   | EXISTING & FINAL ANTENNA PLAN            |
| C-4                                                                                                                                                                                                                                                                                   | FINAL EQUIPMENT SCHEDULE                 |
| C-5                                                                                                                                                                                                                                                                                   | TOWER EQUIPMENT DETAILS & SPECIFICATIONS |
| C-6.1                                                                                                                                                                                                                                                                                 | ENCLOSURE CLEARANCES                     |
| C-6.2                                                                                                                                                                                                                                                                                 | SITE SUPPORT CABINET SPECIFICATIONS      |
| C-6.3                                                                                                                                                                                                                                                                                 | BATTERY CABINET SPECIFICATIONS           |
| C-7                                                                                                                                                                                                                                                                                   | EQUIPMENT DETAILS & COAX COLOR CODING    |
| E-1                                                                                                                                                                                                                                                                                   | PANEL SCHEDULE & ONE LINE DIAGRAM        |
| G-1                                                                                                                                                                                                                                                                                   | GROUNDING SCHEMATIC                      |
| G-2                                                                                                                                                                                                                                                                                   | GROUNDING DETAILS                        |
| G-3                                                                                                                                                                                                                                                                                   | GROUNDING DETAILS                        |
| ALL DRAWINGS CONTAINED HEREIN ARE FORMATTED FOR 22X34. CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME. |                                          |

| PROJECT DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| THE PURPOSE OF THIS PROJECT IS TO ENHANCE BROADBAND CONNECTIVITY AND CAPACITY TO THE EXISTING ELIGIBLE WIRELESS FACILITY.                                                                                                                                                                                                                                                                                                                  |
| TOWER SCOPE OF WORK: <ul style="list-style-type: none"><li>REMOVE (3) COMMSCOPE AIR32 KRD901146/1 B66A B2A ANTENNA</li><li>REMOVE (2) ERICSSON - 6X12 HCS 6AWG HYBRID CABLE</li><li>INSTALL (3) ANDREW - FFV4-65B-R6 ANTENNA</li><li>INSTALL (3) ERICSSON - 4480 B71+B85 RADIOS</li><li>INSTALL (3) ERICSSON - 4460 B25+B66 RADIOS</li><li>INSTALL (3) ERICSSON - 8863 B41 RADIOS</li><li>INSTALL (3) HCS 6/24 40M HYBRID CABLES</li></ul> |
| GROUND SCOPE OF WORK: <ul style="list-style-type: none"><li>REMOVE (1) ERICSSON - RBS 6102 SITE SUPPORT CABINET</li><li>REMOVE (1) CSR - 7705 SAR M</li><li>INSTALL (1) ERICSSON - 6230 CABINET</li><li>INSTALL (2) 19 INCH RACKS</li><li>INSTALL (1) CSR IXRE V2</li><li>INSTALL (1) RP6672</li></ul>                                                                                                                                     |
| NOTE:<br>PRIOR TO ACCESSING/ENTERING THE SITE YOU MUST CONTACT THE CROWN NOC AT (800) 788-7011 & CROWN CONSTRUCTION MANAGER                                                                                                                                                                                                                                                                                                                |



| APPLICABLE CODES/REFERENCE DOCUMENTS                                                                                                                                                                                                                      |            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES: |            |
| CODE TYPE                                                                                                                                                                                                                                                 | CODE       |
| BUILDING                                                                                                                                                                                                                                                  | 2024 IBC   |
| MECHANICAL                                                                                                                                                                                                                                                | 2024 IMC   |
| ELECTRICAL                                                                                                                                                                                                                                                | 2023 NEC   |
| REFERENCE DOCUMENTS:                                                                                                                                                                                                                                      |            |
| STRUCTURAL ANALYSIS:                                                                                                                                                                                                                                      | TEP        |
| DATED:                                                                                                                                                                                                                                                    | 07/31/2025 |
| MOUNT ANALYSIS:                                                                                                                                                                                                                                           | TEP        |
| DATED:                                                                                                                                                                                                                                                    | 08/28/2025 |
| ORDER ID:                                                                                                                                                                                                                                                 | 708594     |
| REVISION:                                                                                                                                                                                                                                                 | 2          |



CALL WYOMING ONE CALL  
(800) 849-2476  
CALL 3 WORKING DAYS  
BEFORE YOU DIG!



T-Mobile

121 W. ELECTION RD., SUITE 330  
DRAPER, UT 84020

CROWN CASTLE

2055 S. STEARMAN DRIVE  
CHANDLER, AZ 85286

POD

POWER OF DESIGN

11490 BLUEGRASS PKWY  
LOUISVILLE, KY 40299  
502-437-5252

T-MOBILE SITE NUMBER:  
SL01206F

BU #: 831885  
JACKSON DT

275 NORTH WILLOW ST.  
JACKSON, WYOMING 83001

EXISTING 55'-0" STEALTH  
STRUCTURE

| ISSUED FOR: |            |      |              |         |
|-------------|------------|------|--------------|---------|
| REV         | DATE       | DRWN | DESCRIPTION  | DES./QA |
| 0           | 08/27/2025 | MB   | CONSTRUCTION | AH      |
| 1           | 10/02/2025 | MB   | CONSTRUCTION | AH      |
|             |            |      |              |         |
|             |            |      |              |         |

Professional Engineer  
19181  
WYOMING

10/03/2025

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

SHEET NUMBER:  
T-1

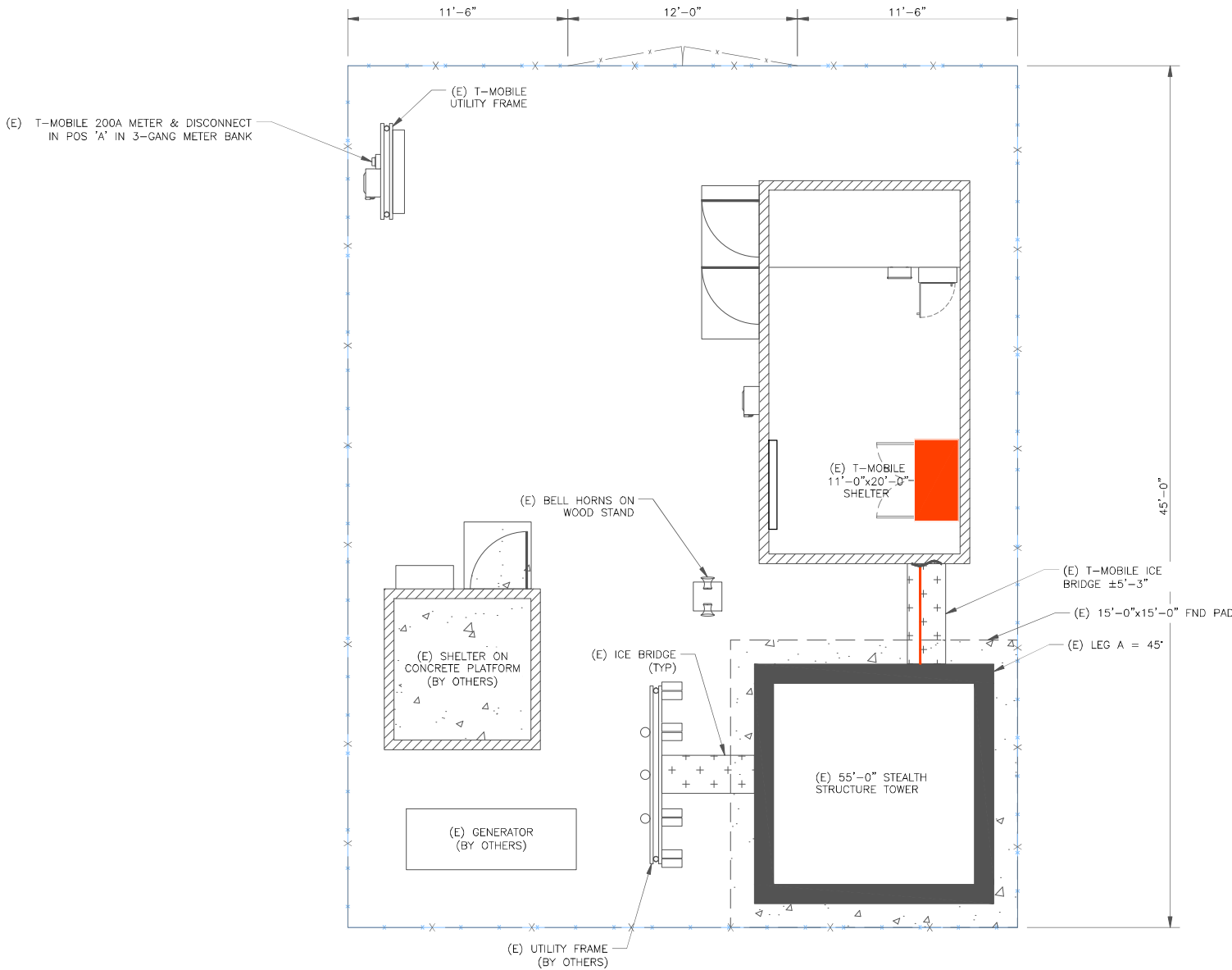
REVISION:  
1



NOTE: T-MOBILE CM/GC TO FIELD VERIFY EXISTING EQUIPMENT INSIDE OF SHELTER BEFORE INSTALLATION.

EQUIPMENT LEGEND:

- EXISTING
- TO BE RELOCATED/REMOVED
- NEW



1 SITE PLAN  
SCALE: 1/4"=1'-0" (FULL SIZE)  
1/8"=1'-0" (11x17)



121 W. ELECTION RD., SUITE 330  
DRAPER, UT 84020



2055 S. STEARMAN DRIVE  
CHANDLER, AZ 85286



11490 BLUEGRASS PKWY  
LOUISVILLE, KY 40299  
502-437-5252

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**SL01206F**

BU #: **831885**  
**JACKSON DT**

275 NORTH WILLOW ST.  
JACKSON, WYOMING 83001

EXISTING 55'-0" STEALTH  
STRUCTURE

ISSUED FOR:

| REV | DATE       | DRWN | DESCRIPTION  | DES./QA |
|-----|------------|------|--------------|---------|
| 0   | 08/27/2025 | MB   | CONSTRUCTION | AH      |
| 1   | 10/02/2025 | MB   | CONSTRUCTION | AH      |
|     |            |      |              |         |
|     |            |      |              |         |



10/03/2025

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SHEET NUMBER:

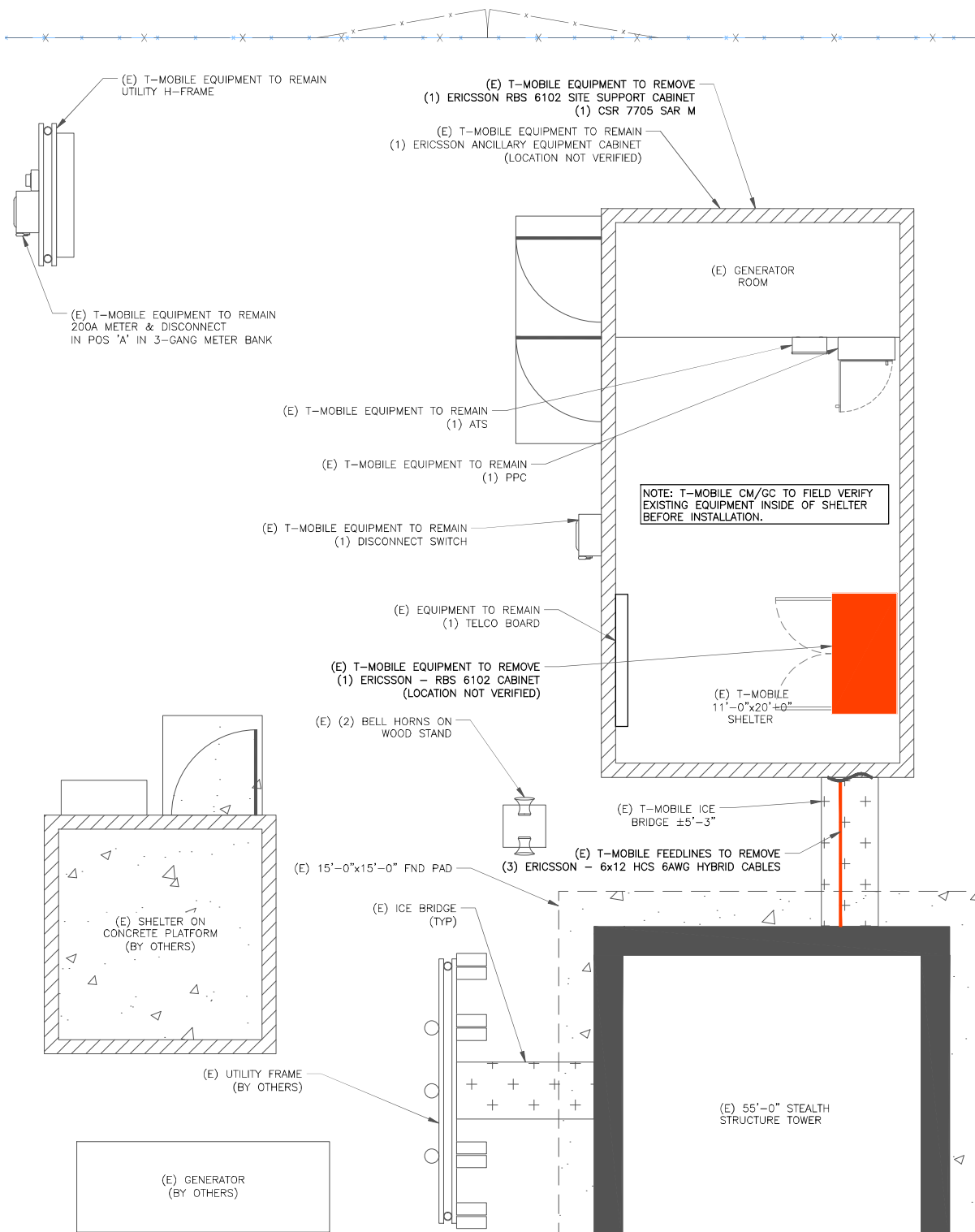
**C-1.1**

REVISION:

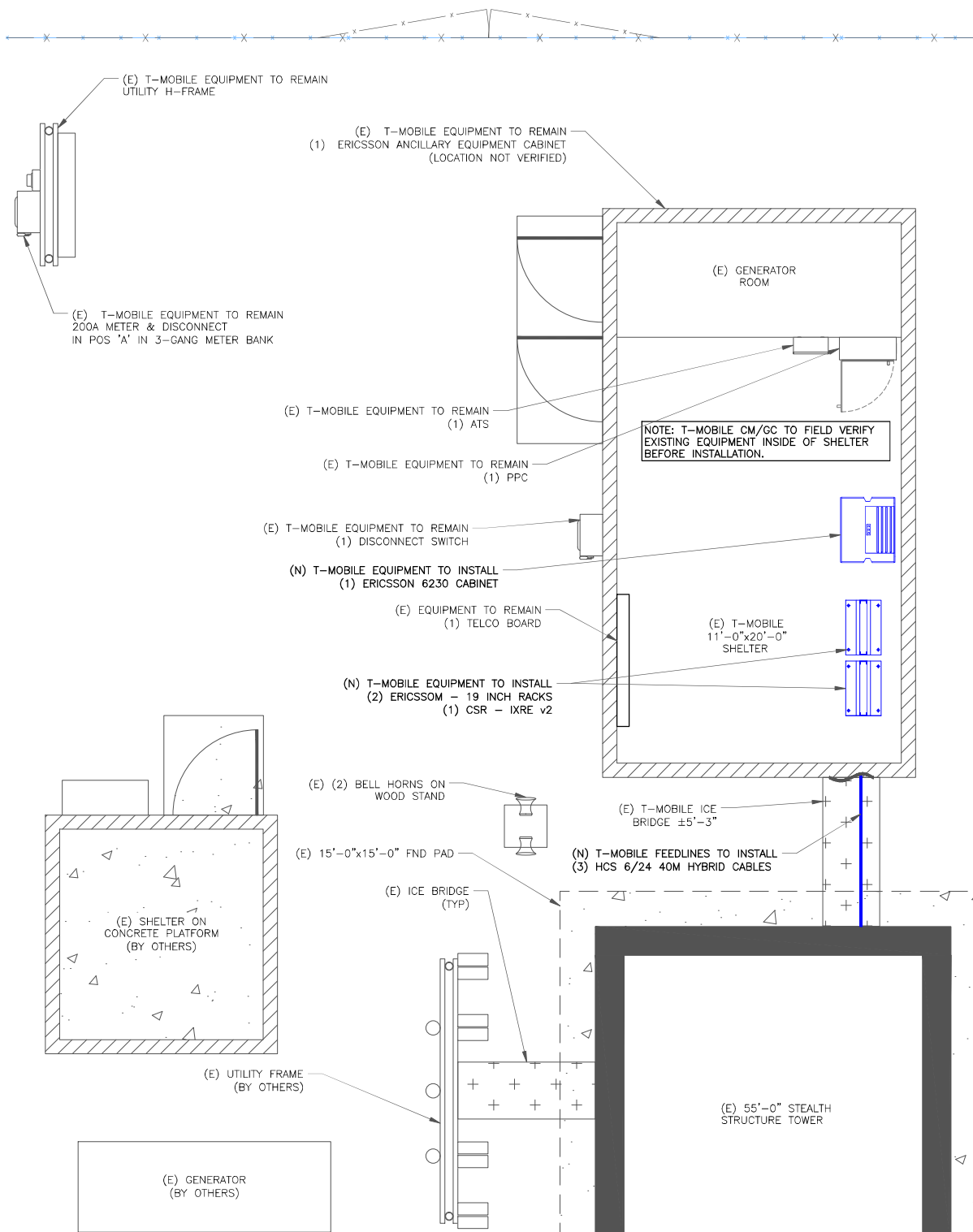
**1**

EQUIPMENT LEGEND:

- EXISTING  
TO BE RELOCATED/REMOVED  
NEW



1 EXISTING EQUIPMENT PLAN  
SCALE: 3/8"=1'-0" (FULL SIZE)  
3/16"=1'-0" (11x17)



2 FINAL EQUIPMENT PLAN  
SCALE: 3/8"=1'-0" (FULL SIZE)  
3/16"=1'-0" (11x17)



T-Mobile

121 W. ELECTION RD., SUITE 330  
DRAPER, UT 84020

CROWN  
CASTLE

2055 S. STEARMAN DRIVE  
CHANDLER, AZ 85286

POD  
POWER OF DESIGN

11490 BLUEGRASS PKWY  
LOUISVILLE, KY 40299  
502-437-5252

T-MOBILE SITE NUMBER:  
**SL01206F**

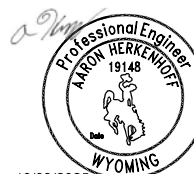
BU #: 831885  
**JACKSON DT**

275 NORTH WILLOW ST.  
JACKSON, WYOMING 83001

EXISTING 55'-0" STEALTH  
STRUCTURE

ISSUED FOR:

| REV | DATE       | DRWN | DESCRIPTION  | DES./QA |
|-----|------------|------|--------------|---------|
| 0   | 08/27/2025 | MB   | CONSTRUCTION | AH      |
| 1   | 10/02/2025 | MB   | CONSTRUCTION | AH      |
|     |            |      |              |         |
|     |            |      |              |         |



10/03/2025

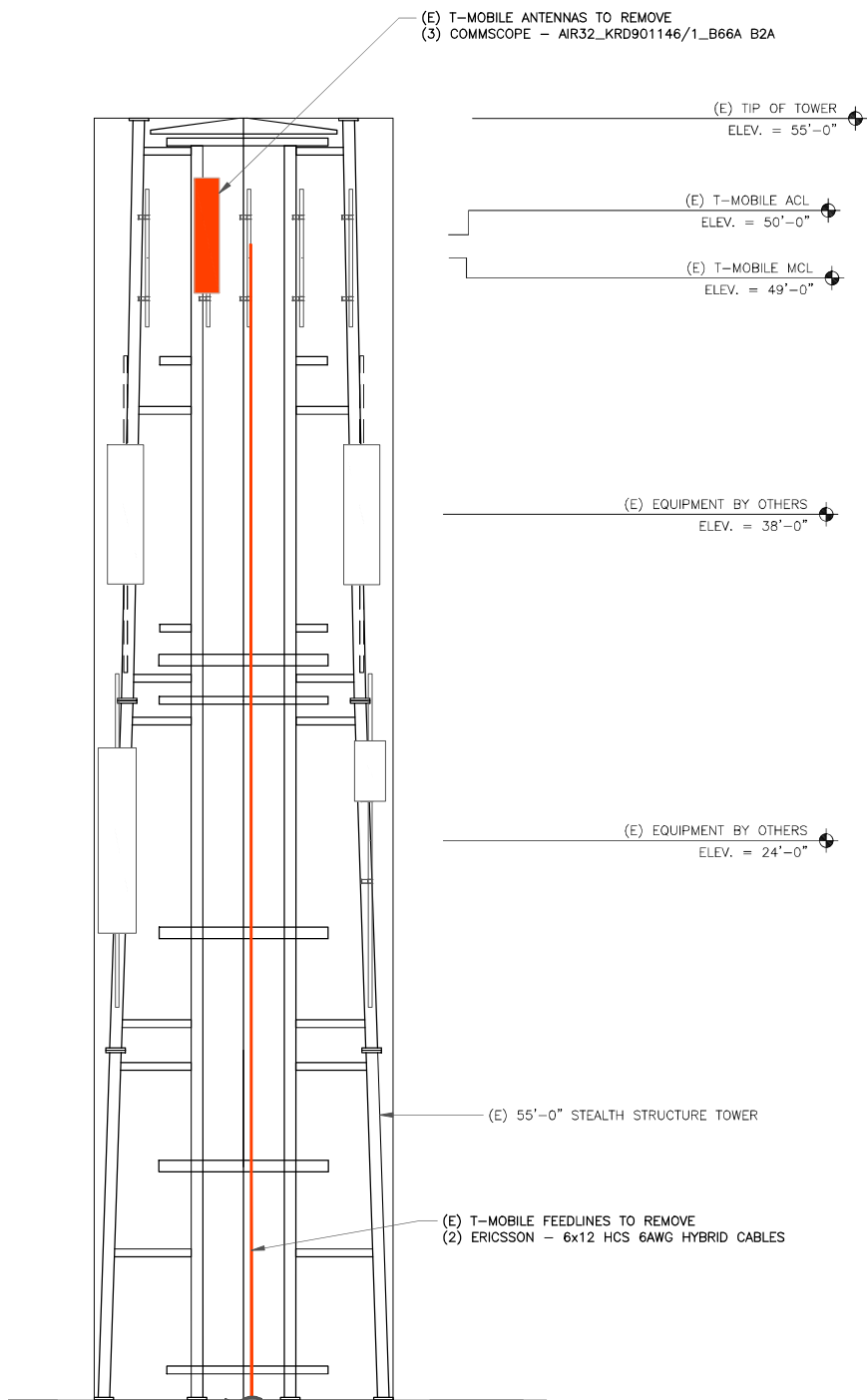
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TO ALTER THIS DOCUMENT.

SHEET NUMBER:

C-1.2

REVISION:

1



**INSTALLER NOTE:**  
DIRECT TOWER MOUNTED EQUIPMENT MUST NOT TRAP OR INTERFERE W/ CLIMBING PEGS/STEPS AND SAFETY CLIMB.

**EQUIPMENT LEGEND:**

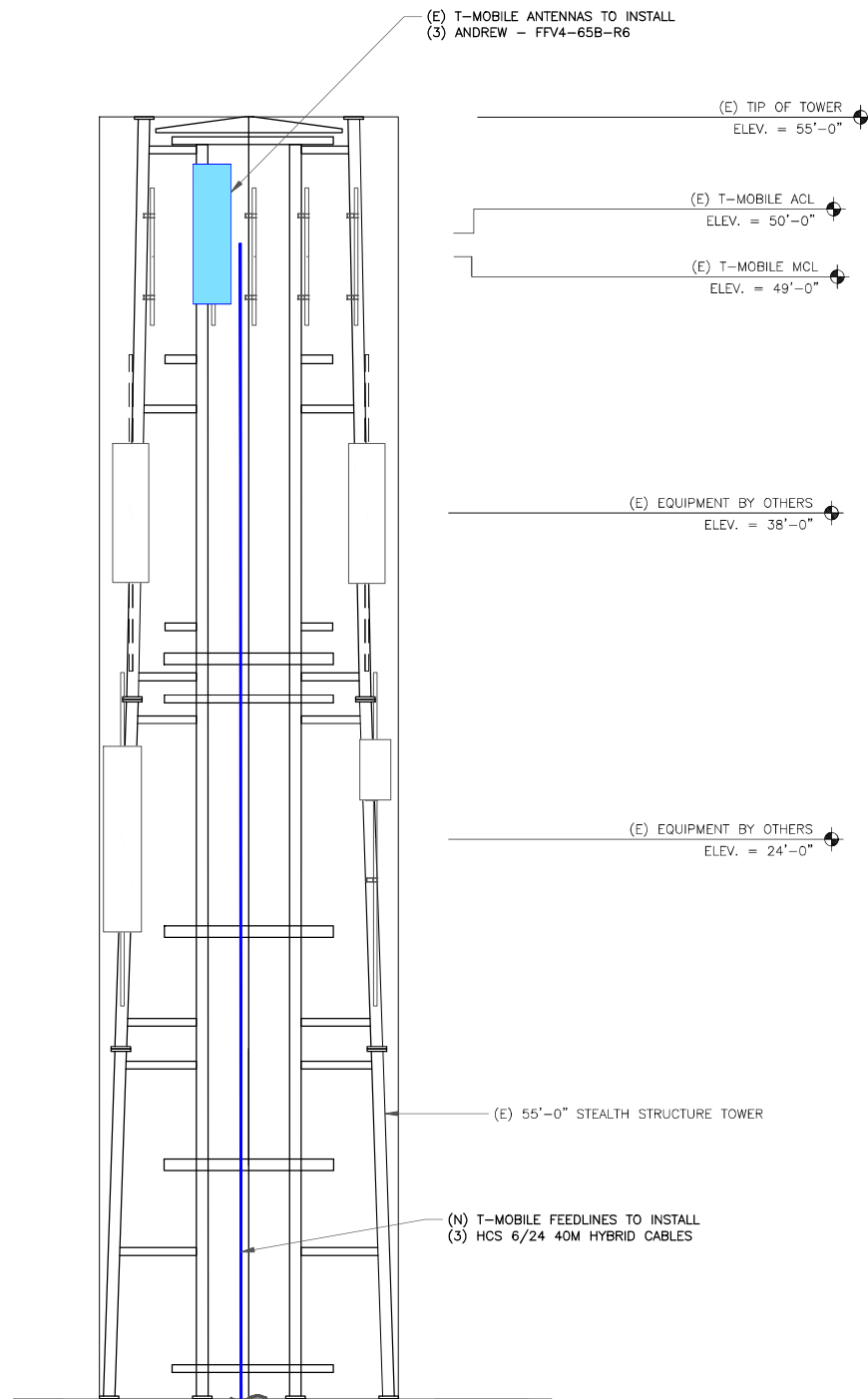
- EXISTING
- TO BE RELOCATED/REMOVED
- NEW

**T-MOBILE EQUIPMENT:**  
ANTENNA CL: 50'-5  
9/16"  
MOUNT CL: 49'-0"

**"LOOK UP" — CROWN CASTLE USA INC. SAFETY CLIMB REQUIREMENT:**

THE INTEGRITY OF THE SAFETY CLIMB AND ALL COMPONENTS OF THE CLIMBING FACILITY SHALL BE CONSIDERED DURING ALL STAGES OF DESIGN, INSTALLATION, AND INSPECTION. TOWER MODIFICATION MOUNT REINFORCEMENTS, AND/OR EQUIPMENT INSTALLATIONS SHALL NOT COMPROMISE THE INTEGRITY OR FUNCTIONAL USE OF THE SAFETY CLIMB OR ANY COMPONENTS OF THE CLIMBING FACILITY ON THE STRUCTURE. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO: PINCHING OF THE WIRE ROPE, BENDING OF THE WIRE ROPE FROM ITS SUPPORTS, DIRECT CONTACT OR CLOSE PROXIMITY TO THE WIRE ROPE WHICH MAY CAUSE FRICTIONAL WEAR, IMPACT TO THE ANCHORAGE POINTS IN ANY WAY, OR TO IMPEDE/BLOCK ITS INTENDED USE. ANY COMPROMISED SAFETY CLIMB, INCLUDING EXISTING CONDITIONS MUST BE TAGGED OUT AND REPORTED TO YOUR CROWN CASTLE USA INC. POC OR CALL THE NOC TO GENERATE A SAFETY CLIMB MAINTENANCE AND CONTRACTOR NOTICE TICKET.

1 EXISTING ELEVATION  
SCALE: 1/4"=1'-0" (FULL SIZE)  
1/8"=1'-0" (11x17)



2 FINAL ELEVATION  
SCALE: 1/4"=1'-0" (FULL SIZE)  
1/8"=1'-0" (11x17)

**T-Mobile**

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BU #: 831885  
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275 NORTH WILLOW ST.  
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EXISTING 55'-0" STEALTH  
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**ISSUED FOR:**

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10/03/2025

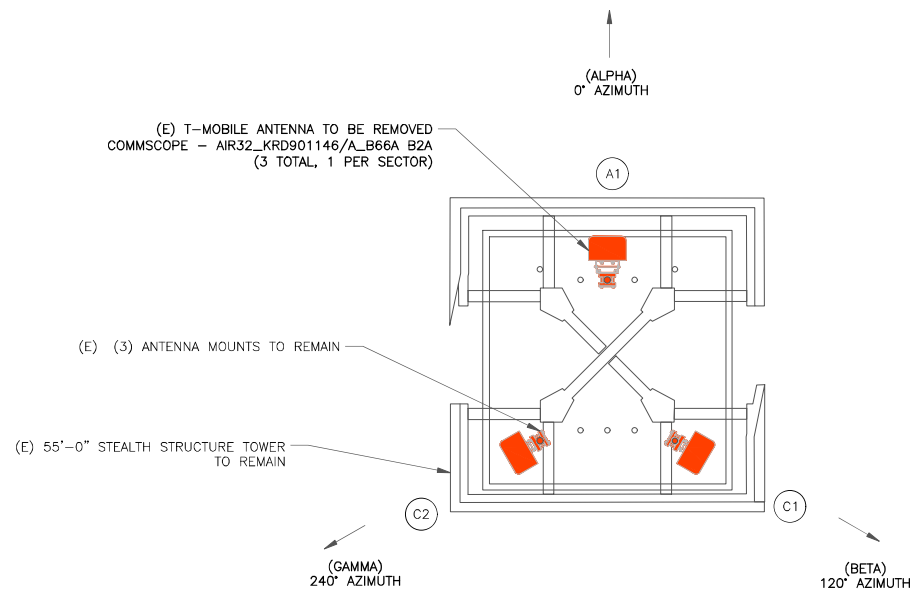
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SHEET NUMBER:

**C-2**

REVISION:

**1**



2 EXISTING ANTENNA LAYOUT  
SCALE: 3/4"=1'-0" (FULL SIZE)  
3/8"=1'-0" (11x17)



EQUIPMENT LEGEND:

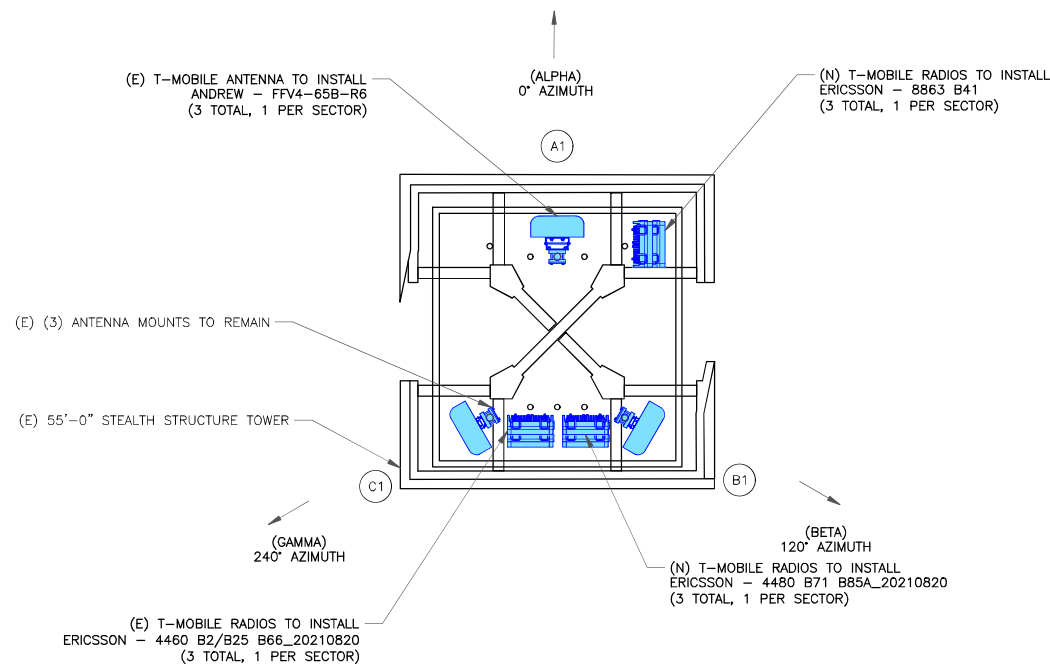
- EXISTING
- TO BE RELOCATED/REMOVED
- NEW

INSTALLER NOTE:

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"LOOK UP" - CROWN CASTLE USA INC.  
SAFETY CLIMB REQUIREMENT:

THE INTEGRITY OF THE SAFETY CLIMB AND ALL COMPONENTS OF THE CLIMBING FACILITY SHALL BE CONSIDERED DURING ALL STAGES OF DESIGN, INSTALLATION, AND INSPECTION. TOWER MODIFICATION, MOUNT REINFORCEMENTS, AND/OR EQUIPMENT INSTALLATIONS SHALL NOT COMPROMISE THE INTEGRITY OR FUNCTIONAL USE OF THE SAFETY CLIMB OR ANY COMPONENTS OF THE CLIMBING FACILITY ON THE STRUCTURE. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO: PINCHING OF THE WIRE ROPE, BENDING OF THE WIRE ROPE FROM ITS SUPPORTS, DIRECT CONTACT OR CLOSE PROXIMITY TO THE WIRE ROPE WHICH MAY CAUSE FRICTIONAL WEAR, IMPACT TO THE ANCHORAGE POINTS IN ANY WAY, OR TO IMPEDE/BLOCK ITS INTENDED USE. ANY COMPROMISED SAFETY CLIMB, INCLUDING EXISTING CONDITIONS MUST BE TAGGED OUT AND REPORTED TO YOUR CROWN CASTLE USA INC. POC OR CALL THE NOC TO GENERATE A SAFETY CLIMB MAINTENANCE AND CONTRACTOR NOTICE TICKET.



3 FINAL ANTENNA LAYOUT  
SCALE: 3/4"=1'-0" (FULL SIZE)  
3/8"=1'-0" (11x17)



121 W. ELECTION RD., SUITE 330  
DRAPER, UT 84020



2055 S. STEARMAN DRIVE  
CHANDLER, AZ 85286



11490 BLUEGRASS PKWY  
LOUISVILLE, KY 40299  
502-437-5252

T-MOBILE SITE NUMBER:  
**SL01206F**

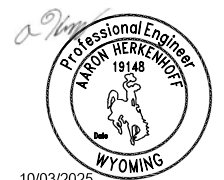
BU #: **831885**  
**JACKSON DT**

275 NORTH WILLOW ST.  
JACKSON, WYOMING 83001

EXISTING 55'-0" STEALTH  
STRUCTURE

ISSUED FOR:

| REV | DATE       | DRWN | DESCRIPTION  | DES./QA |
|-----|------------|------|--------------|---------|
| 0   | 08/27/2025 | MB   | CONSTRUCTION | AH      |
| 1   | 10/02/2025 | MB   | CONSTRUCTION | AH      |
|     |            |      |              |         |
|     |            |      |              |         |



10/03/2025

IT IS A VIOLATION OF LAW FOR ANY PERSON,  
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TO ALTER THIS DOCUMENT.

SHEET NUMBER:

**C-3**

REVISION:

**1**

| FINAL EQUIPMENT SCHEDULE<br>(VERIFY WITH CURRENT RFDS) |                                                     |                     |             |         |            |             |                                                                   |          |      |        |          |      |                  |      |              |        |                     |        |        |
|--------------------------------------------------------|-----------------------------------------------------|---------------------|-------------|---------|------------|-------------|-------------------------------------------------------------------|----------|------|--------|----------|------|------------------|------|--------------|--------|---------------------|--------|--------|
| ALPHA                                                  |                                                     |                     |             |         |            |             |                                                                   |          |      |        |          |      |                  |      |              |        |                     |        |        |
| POSITION                                               | ANTENNA                                             |                     |             |         | RADIO      |             |                                                                   | DIPLEXER |      |        | TMA      |      | SURGE PROTECTION |      |              | CABLES |                     |        |        |
|                                                        | TECH.                                               | STATUS/MANUFACTURER | MODEL       | AZIMUTH | RAD CENTER | QTY.        | STATUS/MODEL                                                      | LOCATION | QTY. | STATUS | LOCATION | QTY. | STATUS           | QTY. | STATUS/MODEL | QTY.   | STATUS/TYPE         | SIZE   | LENGTH |
| A1                                                     | N600, N1900, N2500, L600, L700, L1900, L2100, LAWS3 | (N) COMMSCOPE –     | FFV4–65B–R6 | 0°      | 50'–0"     | 1<br>1<br>1 | (N) ERICSSON – 4460<br>(N) ERICSSON – 4480<br>(N) ERICSSON – 8863 | TOWER    | –    | –      | –        | –    | –                | –    | –            | 1      | (N) HCS 6/24 HYBRID | 1–5/8" | 40M    |
| BETA                                                   |                                                     |                     |             |         |            |             |                                                                   |          |      |        |          |      |                  |      |              |        |                     |        |        |
| B1                                                     | N600, N1900, N2500, L600, L700, L1900, L2100, LAWS3 | (N) COMMSCOPE –     | FFV4–65B–R6 | 120°    | 50'–0"     | 1<br>1<br>1 | (N) ERICSSON – 4460<br>(N) ERICSSON – 4480<br>(N) ERICSSON – 8863 | TOWER    | –    | –      | –        | –    | –                | –    | –            | 1      | (N) HCS 6/24 HYBRID | 1–5/8" | 40M    |
| GAMMA                                                  |                                                     |                     |             |         |            |             |                                                                   |          |      |        |          |      |                  |      |              |        |                     |        |        |
| C1                                                     | N600, N1900, N2500, L600, L700, L1900, L2100, LAWS3 | (N) COMMSCOPE –     | FFV4–65B–R6 | 240°    | 50'–0"     | 1<br>1<br>1 | (N) ERICSSON – 4460<br>(N) ERICSSON – 4480<br>(N) ERICSSON – 8863 | TOWER    | –    | –      | –        | –    | –                | –    | –            | 1      | (N) HCS 6/24 HYBRID | 1–5/8" | 40M    |



121 W. ELECTION RD., SUITE 330  
DRAPER, UT 84020



2055 S. STEARMAN DRIVE  
CHANDLER, AZ 85286



11490 BLUEGRASS PKWY  
LOUISVILLE, KY 40299  
502-437-5252

T-MOBILE SITE NUMBER:  
**SL01206F**

BU #: **831885**  
**JACKSON DT**

275 NORTH WILLOW ST.  
JACKSON, WYOMING 83001

EXISTING 55'-0" STEALTH  
STRUCTURE

ISSUED FOR:

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|     |            |      |              |         |



10/03/2025

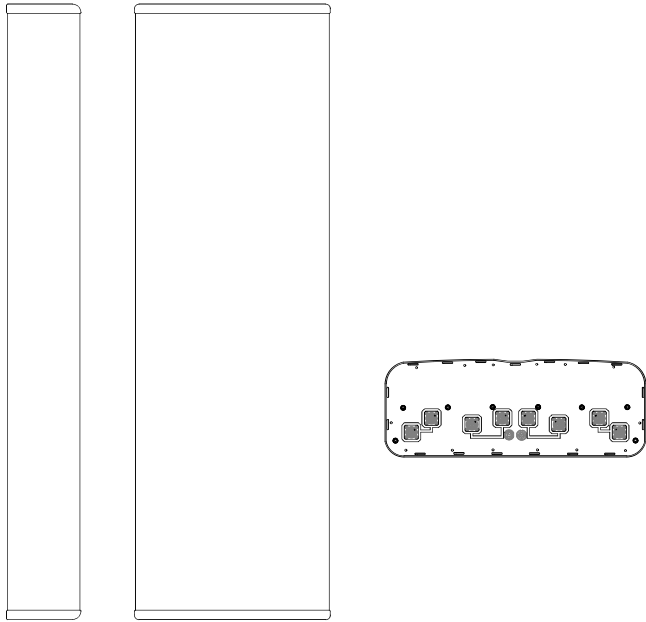
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SHEET NUMBER:

C-4

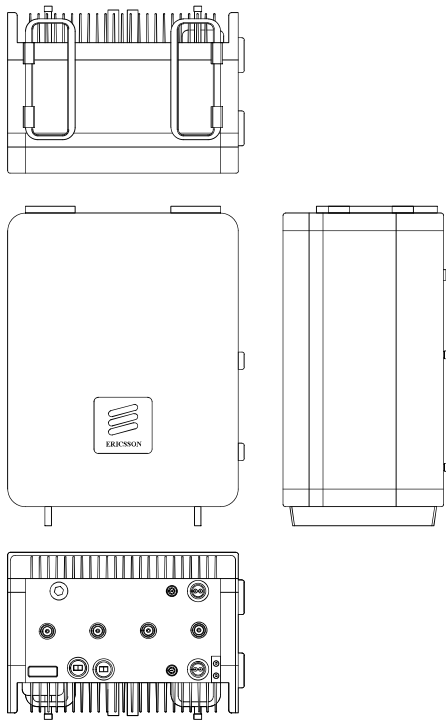
REVISION:

1



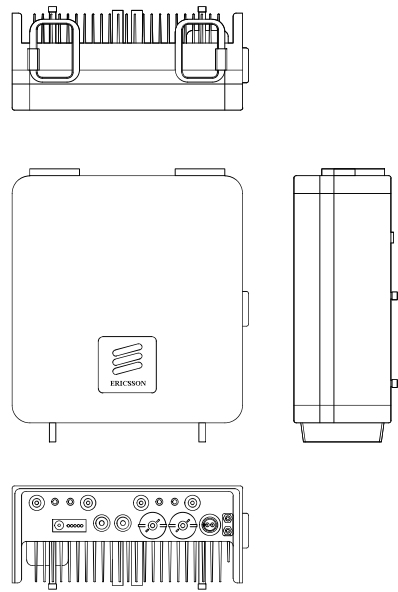
COMMSCOPE — FFV4-65B-R6  
WEIGHT (WITHOUT MOUNTING HARDWARE): 83.114 LBS  
SIZE (HxWxD): 71.969x19.606x7.756 IN.

1 COMMSCOPE — FFV4-65B-R6  
SCALE: NOT TO SCALE



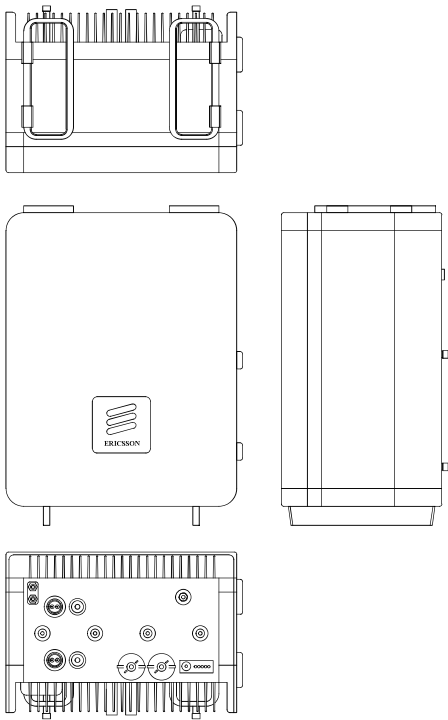
ERICSSON — RADIO 4460 B2/B25 B66\_20210820  
WEIGHT: 109 LBS  
SIZE (HxWxD): 19.70x15.80x12.20 IN.

2 ERICSSON — RADIO 4460 B2/B25 B66\_20210820  
SCALE: NOT TO SCALE



ERICSSON — RADIO 4480 B2/B25 B66\_20210820  
WEIGHT: 81 LBS  
SIZE (HxWxD): 21.90x15.70x7.50 IN.

3 ERICSSON — RADIO 4480 B2/B25 B66\_20210820  
SCALE: NOT TO SCALE



ERICSSON — 8863 B41  
WEIGHT: 53.10 LBS  
SIZE (HxWxD): 18.82x14.80x6.10

4 ERICSSON — 8863 B41  
SCALE: NOT TO SCALE

5 NOT USED  
SCALE: NOT TO SCALE

6 NOT USED  
SCALE: NOT TO SCALE



121 W. ELECTION RD., SUITE 330  
DRAPER, UT 84020



2055 S. STEARMAN DRIVE  
CHANDLER, AZ 85286



11490 BLUEGRASS PKWY  
LOUISVILLE, KY 40299  
502-437-5252

T-MOBILE SITE NUMBER:  
**SL01206F**

BU #: **831885**

**JACKSON DT**

275 NORTH WILLOW ST.  
JACKSON, WYOMING 83001

EXISTING 55'-0" STEALTH  
STRUCTURE

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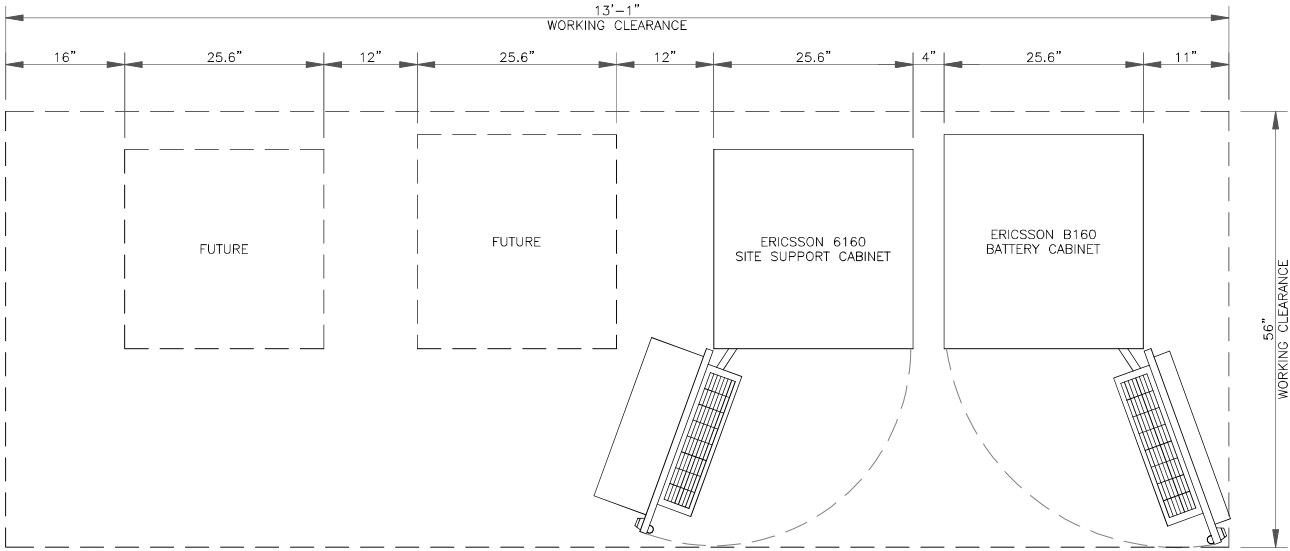
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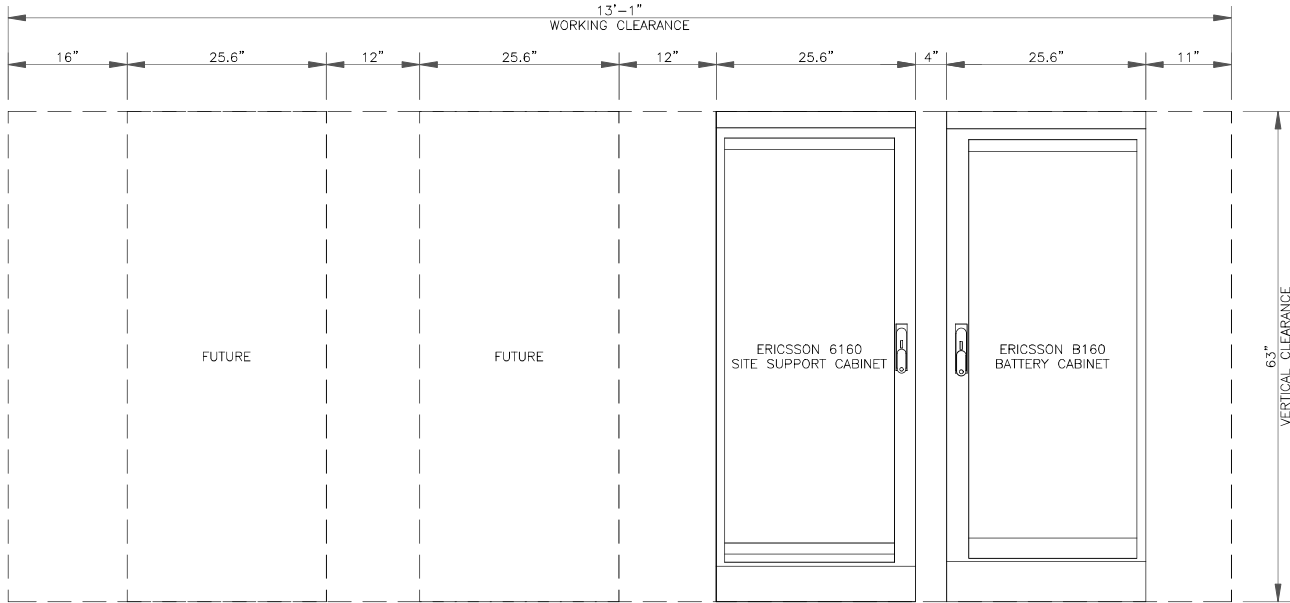
C-5

REVISION:

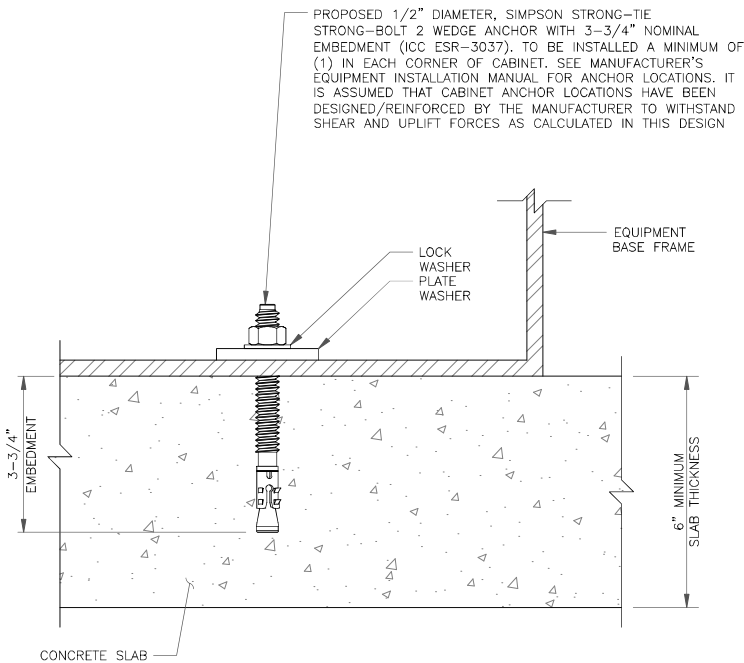
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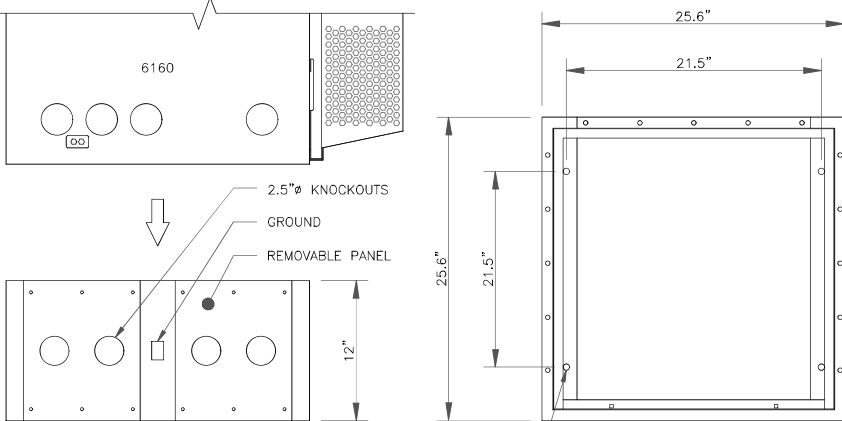
1 PLAN VIEW WORKING CLEARANCE 6160 & B160 LAYOUT  
SCALE: NOT TO SCALE



2 ELEVATION VIEW WORKING CLEARANCE 6160 & B160 LAYOUT  
SCALE: NOT TO SCALE



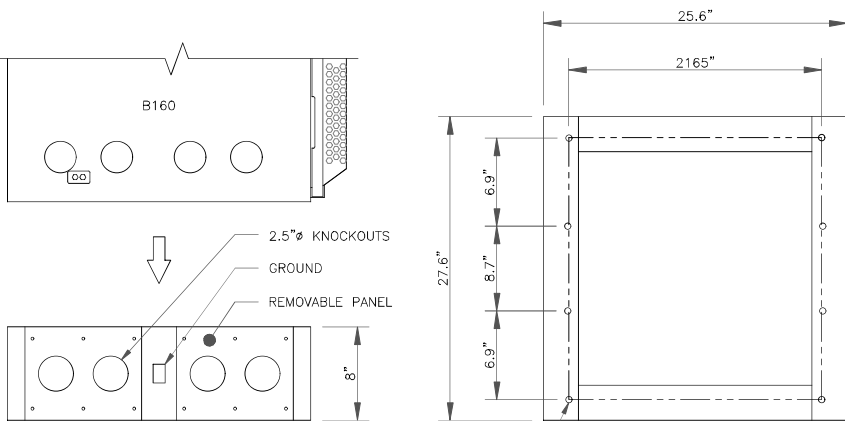
|                     |                                      |
|---------------------|--------------------------------------|
| MANUFACTURER:       | ERICSSON                             |
| MODEL:              | 6160 12" BASE FRAME (SXX 125 5009/1) |
| DIMENSIONS (HxWxD): | 12"x25.6"x25.6"                      |
| T-MOBILE SKU#       | T.B.D.                               |



SIDE VIEW PLAN VIEW  
CABINET BASE ATTACHED WITH 18mm BOLT 30NM

4 ERICSSON 6160 PLINTH DETAIL  
SCALE: NOT TO SCALE

|                     |                                  |
|---------------------|----------------------------------|
| MANUFACTURER:       | ERICSSON                         |
| MODEL:              | B160 BASE FRAME (SKU 125 5010/1) |
| DIMENSIONS (HxWxD): | 8"x27.5"x25.6"                   |
| T-MOBILE SKU#       | T.B.D.                           |



SIDE VIEW PLAN VIEW  
CABINET BASE ATTACHED WITH 18mm BOLT 30NM

5 ERICSSON B160 PLINTH DETAIL  
SCALE: NOT TO SCALE



121 W. ELECTION RD., SUITE 330  
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11490 BLUEGRASS PKWY  
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502-437-5252

T-MOBILE SITE NUMBER:  
**SL01206F**

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**JACKSON DT**

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JACKSON, WYOMING 83001

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SHEET NUMBER:

**C-6.1**

REVISION:

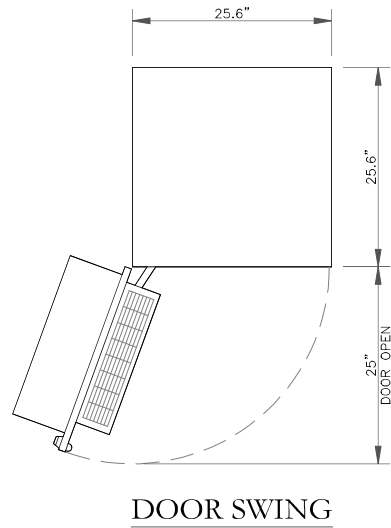
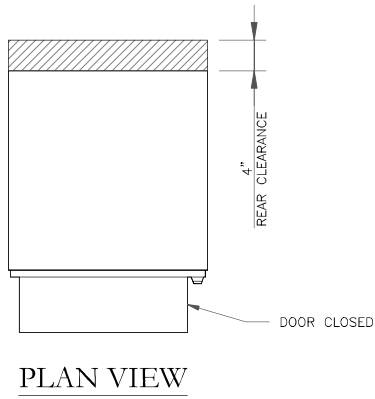
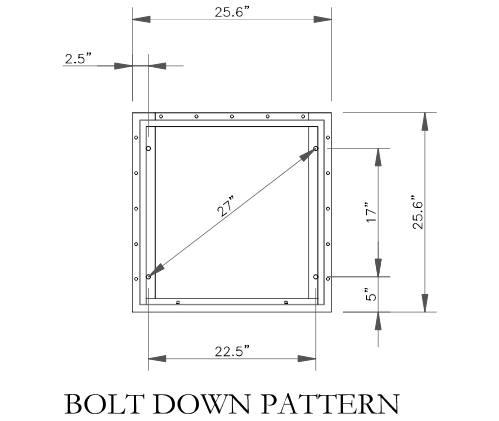
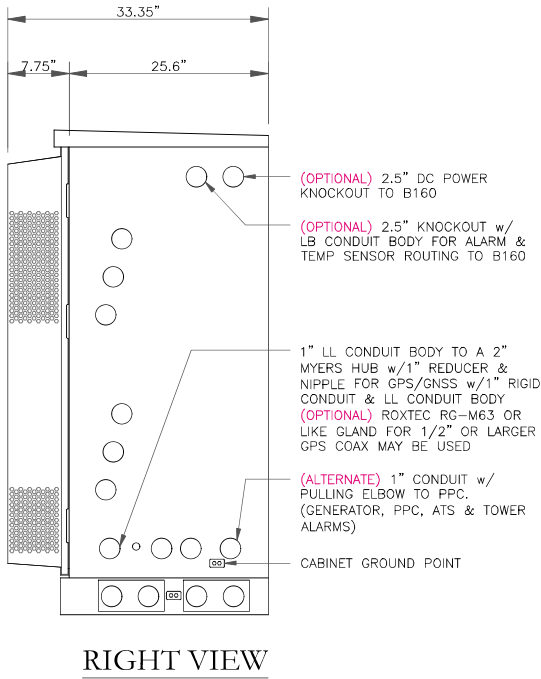
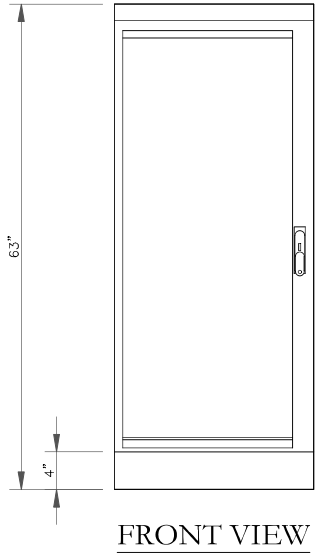
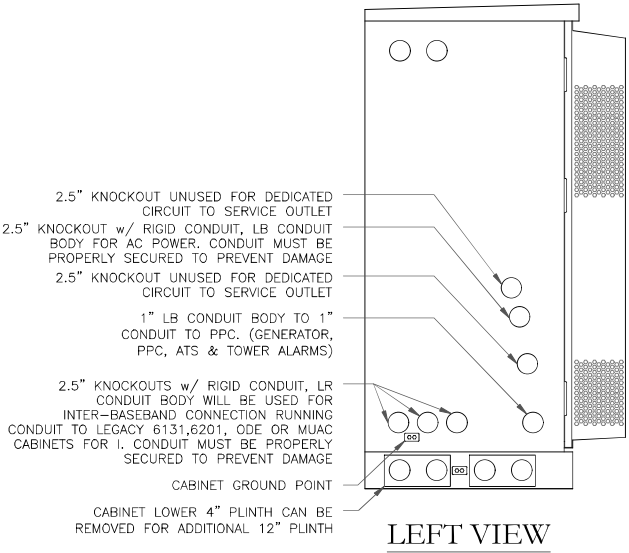
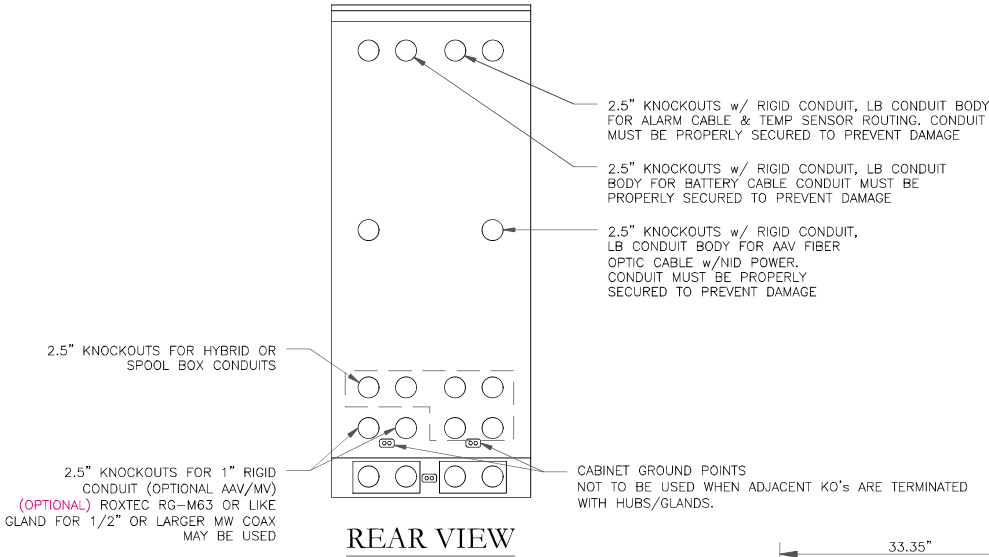
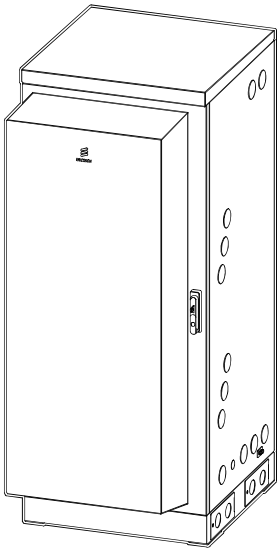
**1**

|                     |                            |
|---------------------|----------------------------|
| MANUFACTURER:       | ERICSSON                   |
| MODEL:              | (UTE6160_AC_V2) V2 CABINET |
| DIMENSIONS (HxWxD): | 63"x25.6"x25.6"            |
| WEIGHT:             | 433 LBS                    |
| SKU #:              | T.B.D.                     |

- NOTE:
- CORRECT KNOCKOUT TOOL REQUIRED FOR PUNCHING KNOCKOUTS. DO NOT DRILL THROUGH KNOCKOUTS
  - CONDUIT MUST BE PROPERLY SECURED TO PREVENT DAMAGE TO CABINETS AND OR CABLING

GROUNDING NOTE:

CABINET GROUNDING TO USE A SINGLE, #2 BTCW CONDUCTOR, W/ 2-HOLE, 1" C-C, LONG BARREL, WINDOW LUG, IN 3/4" LFNC TO GROUND RING. PLINTH GROUNDING IS NOT REQUIRED.



121 W. ELECTION RD., SUITE 330  
DRAPER, UT 84020



2055 S. STEARMAN DRIVE  
CHANDLER, AZ 85286



11490 BLUEGRASS PKWY  
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502-437-5252

T-MOBILE SITE NUMBER:  
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BU #: **831885**  
**JACKSON DT**

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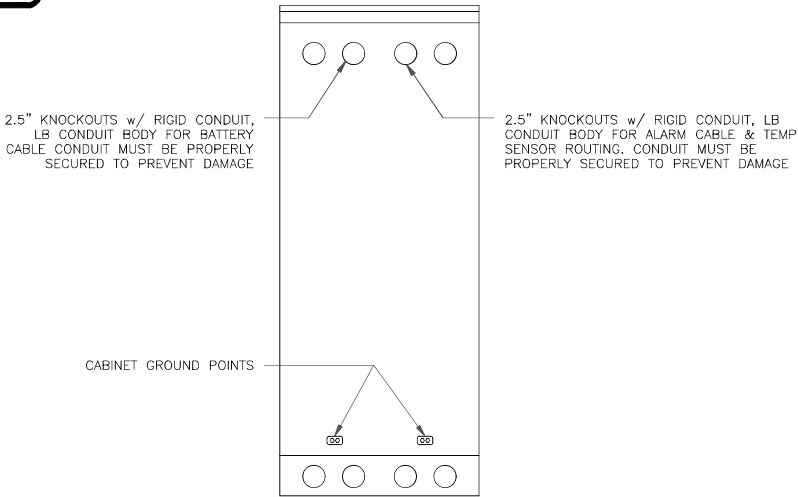
**C-6.2**

REVISION:

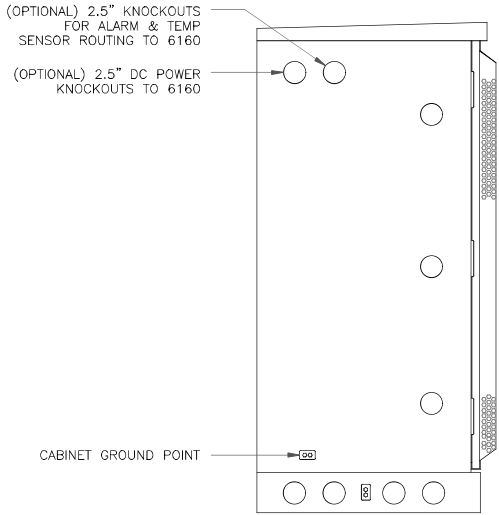
**1**

|                     |                             |
|---------------------|-----------------------------|
| MANUFACTURER:       | ERICSSON                    |
| MODEL:              | B160 BATTERY CABINET        |
| DIMENSIONS (HxWxD): | 63"x25.6"x29.5"             |
| WEIGHT:             | 295 LBS (WITHOUT BATTERIES) |
| SKU #:              | 33954                       |

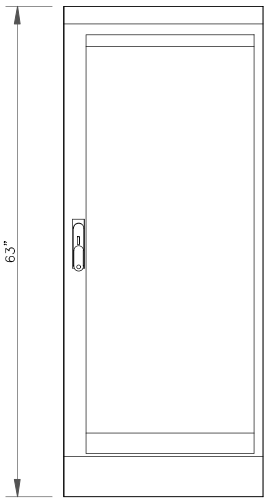
- NOTE:
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  - CONDUIT MUST BE PROPERLY SECURED TO PREVENT DAMAGE TO CABINETS AND OR CABLING



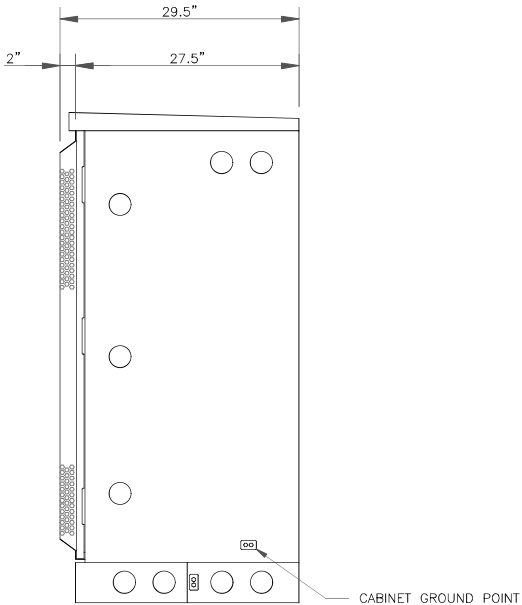
REAR VIEW



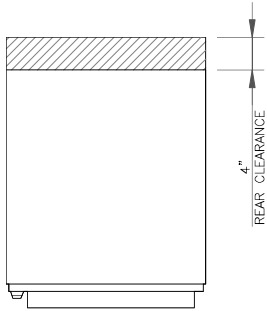
LEFT VIEW



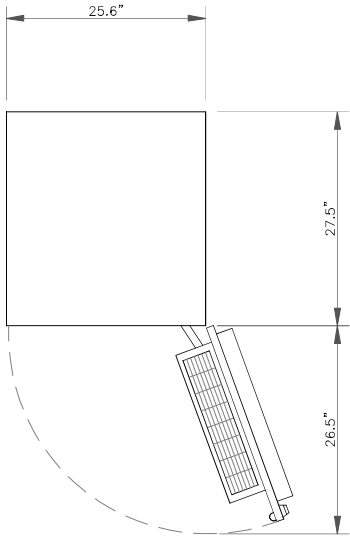
FRONT VIEW



RIGHT VIEW



PLAN VIEW



DOOR SWING

GROUNDING NOTE:

CABINET GROUNDING TO USE A SINGLE, #2 BTCW CONDUCTOR, W/ 2-HOLE, 1" C-C, LONG BARREL, WINDOW LUG, IN 3/4" LFNC TO GROUND RING. PLINTH GROUNDING IS NOT REQUIRED.



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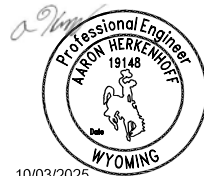
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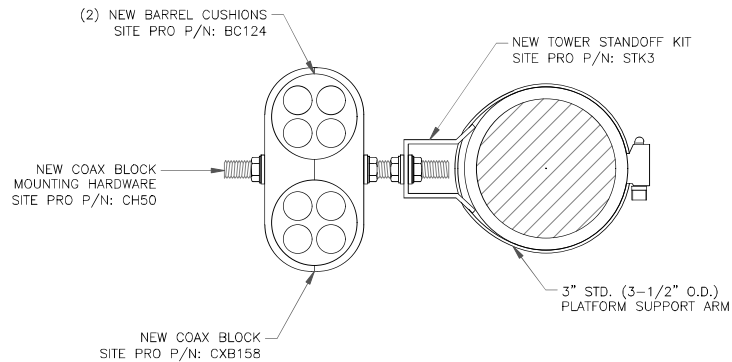
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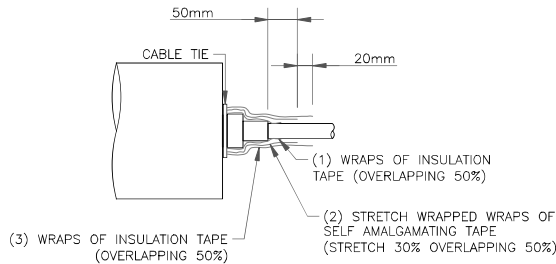
C-6.3

REVISION:

1



1 RF JUMPER DETAIL  
SCALE: NOT TO SCALE



2 RF JUMPER CONNECTION  
SCALE: NOT TO SCALE

### Coax Color Coding

- Antennas will be labeled (back of antenna view) right to left 1 - 4 ports
- Coax/jumper lines will be identified by sector color and by number of bands around the coax/jumper

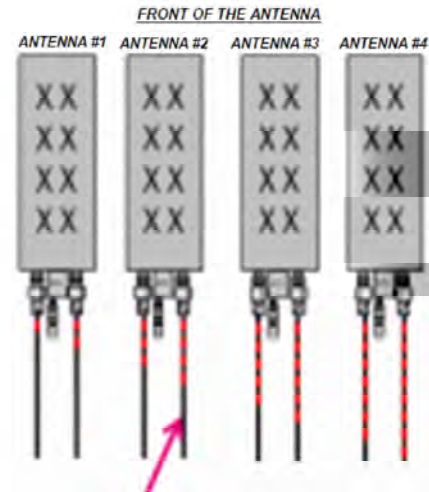
|                                |                                    |
|--------------------------------|------------------------------------|
| SECTOR A                       | RED                                |
| SECTOR B                       | GREEN                              |
| SECTOR C                       | BLUE                               |
| SECTOR D                       | YELLOW                             |
| SECTOR E                       | WHITE                              |
| SECTOR F                       | PURPLE                             |
| LMU                            | BROWN + SECTOR COLOR BANDS (1 & 2) |
| FIBER ID                       | GRAY                               |
| UNUSED COAX                    | PINK                               |
| MICROWAVE                      | ORANGE                             |
| DWE T-1'S + GPS DOWNLINK CABLE | ID W/LABEL MAKER                   |

#### COLOR CODING NOTES:

|       |             |
|-------|-------------|
| color | GSM         |
| color | UMTS 1900   |
| color | UMTS AWS    |
| color | LTE         |
| color | FIBER CABLE |

#### METALLIC TAG NOTES:

- TWO METALLIC TAGS SHALL BE ATTACHED AT EACH END OF EVERY CABLE LONGER THAN (3) THREE FEET
- CABLE LESS THAN (3) THREE FEET WILL HAVE TWO METALLIC TAGS ATTACHED AT THE CENTER OF THE CABLE.
- TAGS WILL BE FASTENED WITH STAINLESS STEEL ZIP TIES APPROPRIATE FOR CABLE DIAMETER.
- STANDARDIZED METALLIC TAG KIT WILL BE ASSEMBLED WITH TAGS ALREADY ENGRAVED TO ACCOMMODATE ALL CONFIGURATIONS.



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

#### ANTENNA AND COAXIAL CABLE SCHEDULE

- ALL ANTENNAS SHALL BE FURNISHED WITH DOWNTILT BRACKETS. CONTRACTOR SHALL COORDINATE REQUIRED MECHANICAL DOWNTILT FOR EACH ANTENNA WITH RF ENGINEER. ANTENNA DOWNTILT SHALL BE SET AND VERIFIED BY A SMART LEVEL.
- CONTRACTOR SHALL INSTALL COLOR CODE RINGS ON EACH OF THE HYBRID CABLES AND JUMPER CABLES WITH UV RESISTANT TAPE. ALL CABLE SHALL BE MARKED AT TOP AND BOTTOM WITH 2" COLOR TAPE OR STENCIL TAG. COLOR TAPE MAY BE OBTAINED FROM GRAYBAR ELECTRONICS.

3 NOT USED  
SCALE: NOT TO SCALE

4 COAX COLOR CODING  
SCALE: NOT TO SCALE

INSTALLER NOTE:  
JUMPERS TO BE TORQUED TO 221.27 IN/LBS.

T-Mobile

121 W. ELECTION RD., SUITE 330  
DRAPER, UT 84020

CROWN CASTLE

2055 S. STEARMAN DRIVE  
CHANDLER, AZ 85286

POD  
POWER OF DESIGN

11490 BLUEGRASS PKWY  
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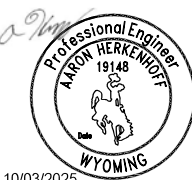
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|-----|------------|------|--------------|---------|
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| 1   | 10/02/2025 | MB   | CONSTRUCTION | AH      |
|     |            |      |              |         |
|     |            |      |              |         |



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SHEET NUMBER:

C-7

REVISION:

1

NOTE: CM/GC TO FIELD VERIFY EXISTING AMPERAGE AND BREAKERS BEFORE INSTALLATION OF NEW BREAKER.

T-MOBILE PANEL SCHEDULE (EXISTING)

| MAIN: 200 AMP MAIN BREAKER     |           |         |     | VOLTAGE/PHASE: 120/240V, 1-PHASE, 3-WIRE |           |         |                                                                                                                                                                                                                                    | SHORT CIRCUIT CURRENT RATING: N/A |         |           |                          |
|--------------------------------|-----------|---------|-----|------------------------------------------|-----------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|---------|-----------|--------------------------|
| MOUNTING: INSIDE PPC ENCLOSURE |           |         |     | ENCLOSURE: NEMA 3R                       |           |         |                                                                                                                                                                                                                                    | SURGE PROTECTION DEVICE: YES      |         |           |                          |
| DESCRIPTION                    | LOAD (VA) | C or NC | C/B | CIR No.                                  | LOAD (VA) |         | CIR No.                                                                                                                                                                                                                            | C/B                               | C or NC | LOAD (VA) | DESCRIPTION              |
|                                |           |         |     |                                          | A-PHASE   | B-PHASE |                                                                                                                                                                                                                                    |                                   |         |           |                          |
| SURGE PROTECTION DEVICE        | 30        | C       | 60  | 1                                        | 210       |         | 2                                                                                                                                                                                                                                  | 20                                | NC      | 180       | GFCI                     |
|                                | 30        | C       |     | 3                                        |           | 230     | 4                                                                                                                                                                                                                                  | 20                                | C       | 200       | INTERIOR/EXTERIOR LIGHTS |
| EXISTING 6102                  | 3725      | C       | 100 | 5                                        | 3905      |         | 6                                                                                                                                                                                                                                  | 20                                | C       | 180       | DUPLEX RECEPTACLE        |
|                                | 3725      | C       |     | 7                                        |           | 3905    | 8                                                                                                                                                                                                                                  | 20                                | C       | 180       | GFCI                     |
| FAA LIGHTS                     | 200       | C       | 20  | 9                                        | 254       |         | 10                                                                                                                                                                                                                                 | 15                                | C       | 54        | SMOKE DETECTOR           |
|                                |           |         |     | 11                                       |           | 0       | 12                                                                                                                                                                                                                                 |                                   |         |           |                          |
|                                |           |         |     | 13                                       | 0         |         | 14                                                                                                                                                                                                                                 |                                   |         |           |                          |
|                                |           |         |     | 15                                       |           | 0       | 16                                                                                                                                                                                                                                 |                                   |         |           |                          |
|                                |           |         |     | 17                                       | 0         |         | 18                                                                                                                                                                                                                                 |                                   |         |           |                          |
|                                |           |         |     | 19                                       |           | 0       | 20                                                                                                                                                                                                                                 |                                   |         |           |                          |
|                                |           |         |     | 21                                       | 0         |         | 22                                                                                                                                                                                                                                 |                                   |         |           |                          |
|                                |           |         |     | 23                                       |           | 0       | 24                                                                                                                                                                                                                                 |                                   |         |           |                          |
| BASE LOAD (VA) =               |           |         |     |                                          | 4369      | 4135    | C = CONTINUOUS LOAD; NC = NON-CONTINUOUS LOAD<br>** INDICATES NEW LOAD. ALL OTHER LOADS ARE EXISTING. NEW BREAKER TO BE SAME TYPE AND HAVE SAME AIC RATING AS EXISTING. CUSTOMER HAS NOT PROVIDED LOADS SHOWN ARE ESTIMATED VALUES |                                   |         |           |                          |
| 25% OF CONTINUOUS LOAD (VA) =  |           |         |     |                                          | 1047      | 1034    |                                                                                                                                                                                                                                    |                                   |         |           |                          |
| TOTAL LOAD (VA) =              |           |         |     |                                          | 5416      | 5169    |                                                                                                                                                                                                                                    |                                   |         |           |                          |
| TOTAL LOAD (A) =               |           |         |     |                                          | 46        | 44      |                                                                                                                                                                                                                                    |                                   |         |           |                          |

1 EXISTING PANEL SCHEDULE  
SCALE: NOT TO SCALE

NOTE: CM/GC TO FIELD VERIFY EXISTING AMPERAGE AND BREAKERS BEFORE INSTALLATION OF NEW BREAKER.

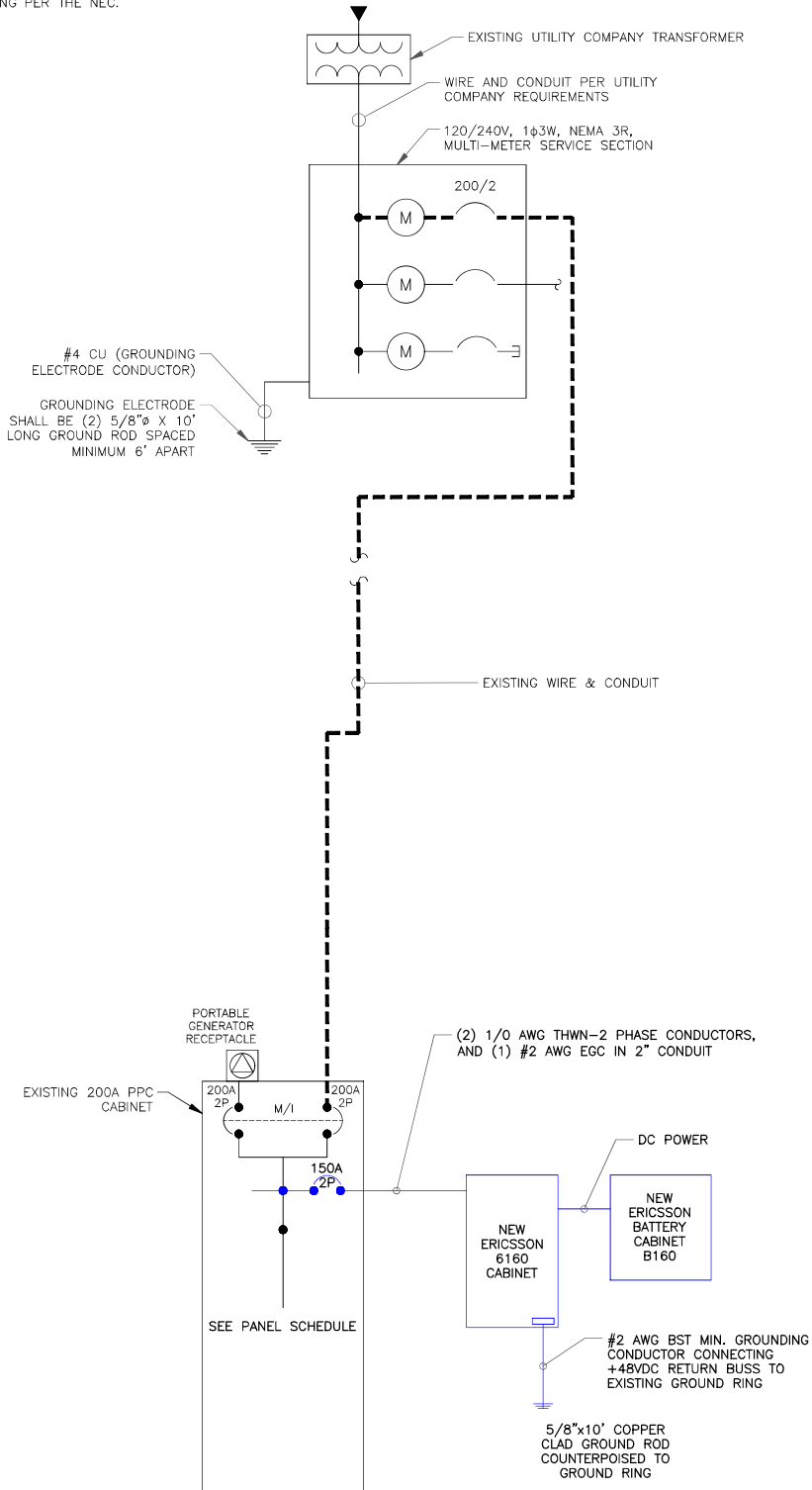
T-MOBILE PANEL SCHEDULE (FINAL)

| MAIN: 200 AMP MAIN BREAKER     |           |         |     | VOLTAGE/PHASE: 120/240V, 1-PHASE, 3-WIRE |           |         |                                                                                                                                                                                                                                    | SHORT CIRCUIT CURRENT RATING: N/A |         |           |                          |
|--------------------------------|-----------|---------|-----|------------------------------------------|-----------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|---------|-----------|--------------------------|
| MOUNTING: INSIDE PPC ENCLOSURE |           |         |     | ENCLOSURE: NEMA 3R                       |           |         |                                                                                                                                                                                                                                    | SURGE PROTECTION DEVICE: YES      |         |           |                          |
| DESCRIPTION                    | LOAD (VA) | C or NC | C/B | CIR No.                                  | LOAD (VA) |         | CIR No.                                                                                                                                                                                                                            | C/B                               | C or NC | LOAD (VA) | DESCRIPTION              |
|                                |           |         |     |                                          | A-PHASE   | B-PHASE |                                                                                                                                                                                                                                    |                                   |         |           |                          |
| SURGE PROTECTION DEVICE        | 30        | C       | 60  | 1                                        | 210       |         | 2                                                                                                                                                                                                                                  | 20                                | NC      | 180       | GFCI                     |
|                                | 30        | C       |     | 3                                        |           | 230     | 4                                                                                                                                                                                                                                  | 20                                | C       | 200       | INTERIOR/EXTERIOR LIGHTS |
|                                |           |         |     | 5                                        | 180       |         | 6                                                                                                                                                                                                                                  | 20                                | C       | 180       | DUPLEX RECEPTACLE        |
|                                |           |         |     | 7                                        |           | 180     | 8                                                                                                                                                                                                                                  | 20                                | C       | 180       | GFCI                     |
| FAA LIGHTS                     | 200       | C       | 20  | 9                                        | 254       |         | 10                                                                                                                                                                                                                                 | 15                                | C       | 54        | SMOKE DETECTOR           |
| NEW 6160_v2 CABINET**          | 8500      | C       | 150 | 11                                       |           | 8500    | 12                                                                                                                                                                                                                                 |                                   |         |           |                          |
|                                | 8500      | C       |     | 13                                       | 8500      |         | 14                                                                                                                                                                                                                                 |                                   |         |           |                          |
|                                |           | C       |     | 15                                       |           | 0       | 16                                                                                                                                                                                                                                 |                                   |         |           |                          |
|                                |           |         |     | 17                                       | 0         |         | 18                                                                                                                                                                                                                                 |                                   |         |           |                          |
|                                |           | C       |     | 19                                       |           | 0       | 20                                                                                                                                                                                                                                 |                                   |         |           |                          |
|                                |           |         |     | 21                                       | 0         |         | 22                                                                                                                                                                                                                                 |                                   |         |           |                          |
|                                |           |         |     | 23                                       |           | 0       | 24                                                                                                                                                                                                                                 |                                   |         |           |                          |
| BASE LOAD (VA) =               |           |         |     |                                          | 9144      | 8910    | C = CONTINUOUS LOAD; NC = NON-CONTINUOUS LOAD<br>** INDICATES NEW LOAD. ALL OTHER LOADS ARE EXISTING. NEW BREAKER TO BE SAME TYPE AND HAVE SAME AIC RATING AS EXISTING. CUSTOMER HAS NOT PROVIDED LOADS SHOWN ARE ESTIMATED VALUES |                                   |         |           |                          |
| 25% OF CONTINUOUS LOAD (VA) =  |           |         |     |                                          | 2241      | 2228    |                                                                                                                                                                                                                                    |                                   |         |           |                          |
| TOTAL LOAD (VA) =              |           |         |     |                                          | 11385     | 11138   |                                                                                                                                                                                                                                    |                                   |         |           |                          |
| TOTAL LOAD (A) =               |           |         |     |                                          | 95        | 93      |                                                                                                                                                                                                                                    |                                   |         |           |                          |

2 FINAL PANEL SCHEDULE  
SCALE: NOT TO SCALE

NOTES:

- ALL NEW CONDUCTORS TO BE INSTALLED SHALL BE COPPER. ALL CONDUCTORS SHALL BE THHW, THWN, THWN-2, XHHW, OR XHHW-2 UNLESS NOTED OTHERWISE.
- CONTRACTOR IS TO FIELD VERIFY ALL EXISTING ITEMS SHOWN ON THE ELECTRICAL ONE-LINE DIAGRAM AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
- ALL GROUNDING AND BONDING PER THE NEC.



3 ONE LINE DIAGRAM  
SCALE: NOT TO SCALE

T-Mobile

121 W. ELECTION RD., SUITE 330  
DRAPER, UT 84020

CROWN CASTLE

2055 S. STEARMAN DRIVE  
CHANDLER, AZ 85286

POD  
POWER OF DESIGN

11490 BLUEGRASS PKWY  
LOUISVILLE, KY 40299  
502-437-5252

T-MOBILE SITE NUMBER:  
SL01206F

BU #: 831885  
JACKSON DT

275 NORTH WILLOW ST.  
JACKSON, WYOMING 83001

EXISTING 55'-0" STEALTH  
STRUCTURE

ISSUED FOR:

| REV | DATE       | DRWN | DESCRIPTION  | DES./QA |
|-----|------------|------|--------------|---------|
| 0   | 08/27/2025 | MB   | CONSTRUCTION | AH      |
| 1   | 10/02/2025 | MB   | CONSTRUCTION | AH      |
|     |            |      |              |         |
|     |            |      |              |         |



10/03/2025

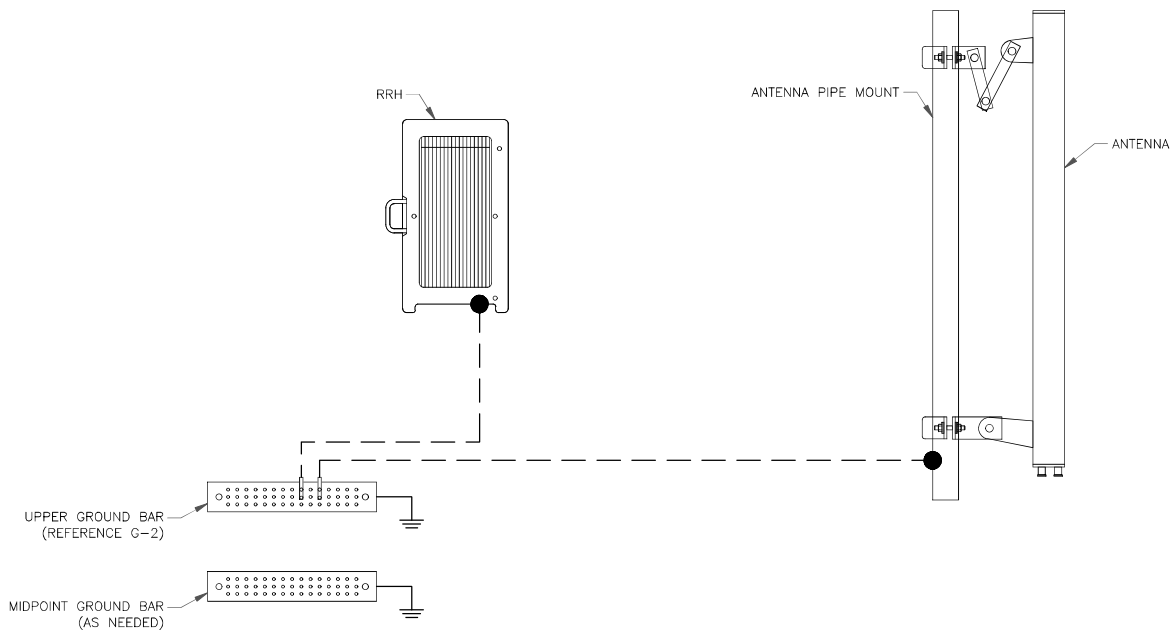
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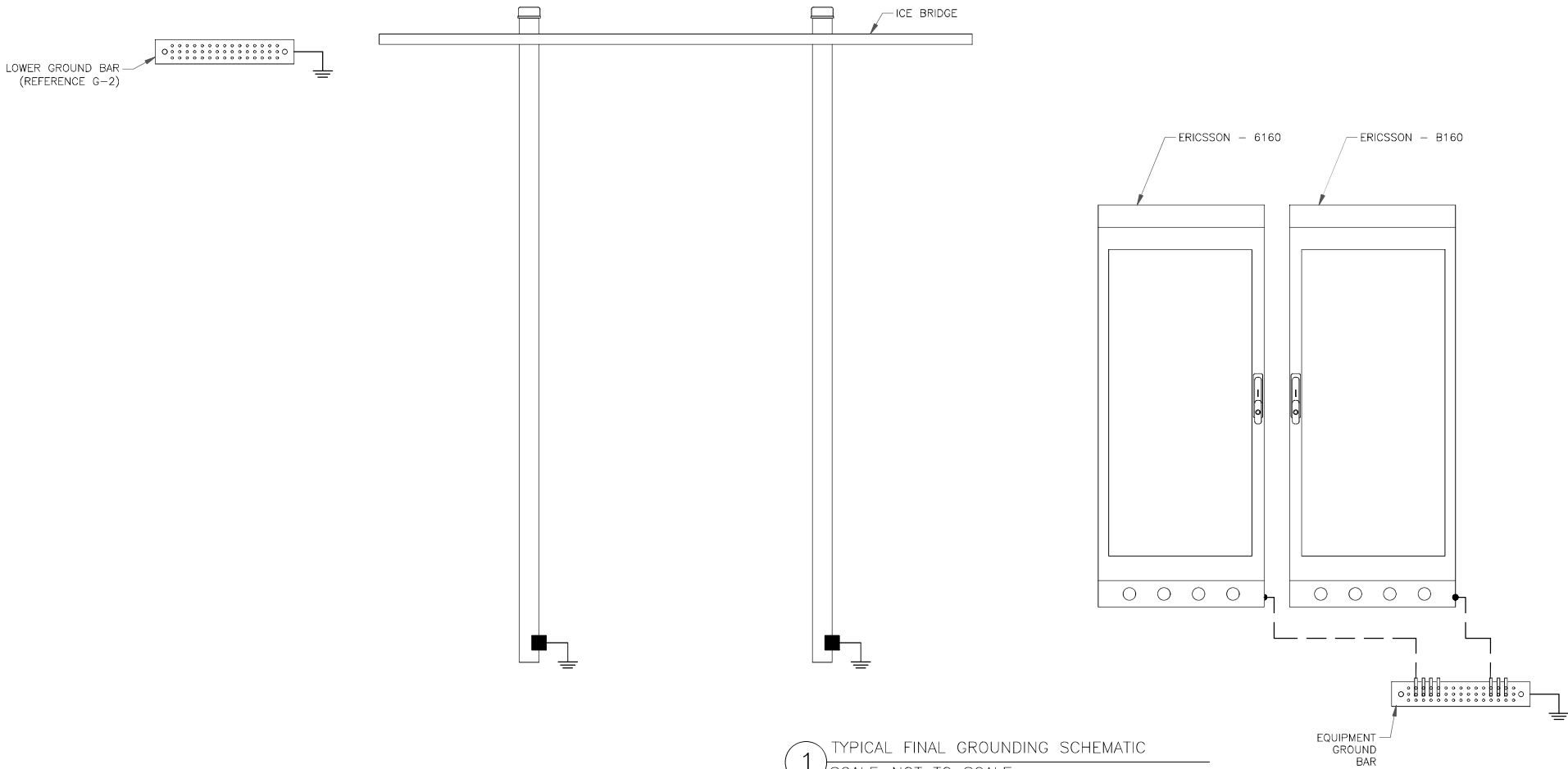
E-1

REVISION:

1



ANTENNA LEVEL  
GROUND LEVEL



1 TYPICAL FINAL GROUNDING SCHEMATIC  
SCALE: NOT TO SCALE

- GROUNDING PLAN LEGEND:
- — — #6 STRANDED COPPER WITH GREEN INSULATION GROUND WIRE
  - . — #2 STRANDED COPPER WITH GREEN INSULATION GROUND WIRE
  - . . — #2 BARE, SOLID, TINNED COPPER GROUND WIRE
  - EXOTHERMIC WELD
  - MECHANICAL CONNECTION
  - ⊙ COPPER GROUND ROD
  - ⊗ GROUND ROD W/ TEST WELL

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



121 W. ELECTION RD., SUITE 330  
DRAPER, UT 84020



2055 S. STEARMAN DRIVE  
CHANDLER, AZ 85286



11490 BLUEGRASS PKWY  
LOUISVILLE, KY 40299  
502-437-5252

T-MOBILE SITE NUMBER:  
**SL01206F**

BU #: **831885**  
**JACKSON DT**

275 NORTH WILLOW ST.  
JACKSON, WYOMING 83001

EXISTING 55'-0" STEALTH  
STRUCTURE

ISSUED FOR:

| REV | DATE       | DRWN | DESCRIPTION  | DES./QA |
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|     |            |      |              |         |
|     |            |      |              |         |



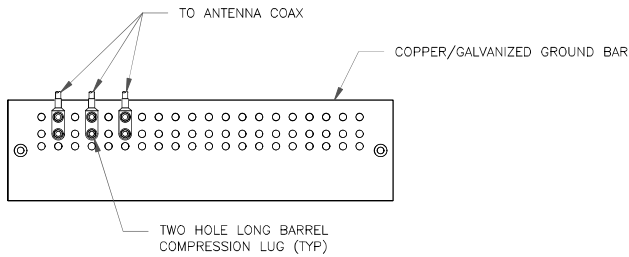
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G-1

REVISION:

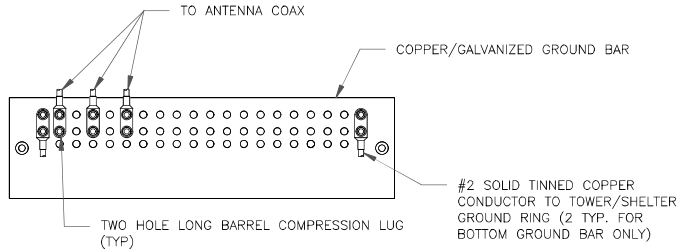
1



NOTES:

1. DOUBLING UP "OR STACKING" OF CONNECTIONS IS NOT PERMITTED.
2. EXTERIOR ANTIOXIDANT JOINT COMPOUND TO BE USED ON ALL EXTERIOR CONNECTIONS.
3. GROUND BAR SHALL NOT BE ISOLATED FROM TOWER. MOUNT DIRECTLY TO ANTENNA MOUNT STEEL.

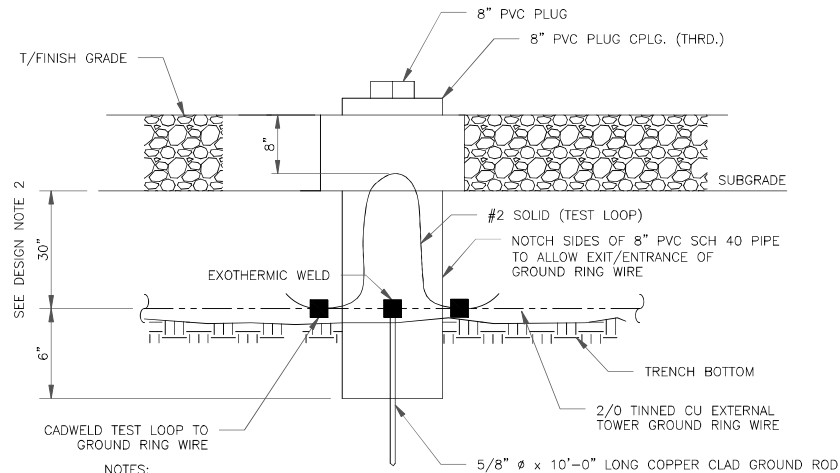
1 ANTENNA SECTOR GROUND BAR DETAIL  
SCALE: NOT TO SCALE



NOTES:

1. EXTERIOR ANTIOXIDANT JOINT COMPOUND TO BE USED ON ALL EXTERIOR CONNECTIONS.
2. GROUND BAR SHALL NOT BE ISOLATED FROM TOWER. MOUNT DIRECTLY TO TOWER STEEL (TOWER ONLY).
3. GROUND BAR SHALL BE ISOLATED FROM BUILDING OR SHELTER.

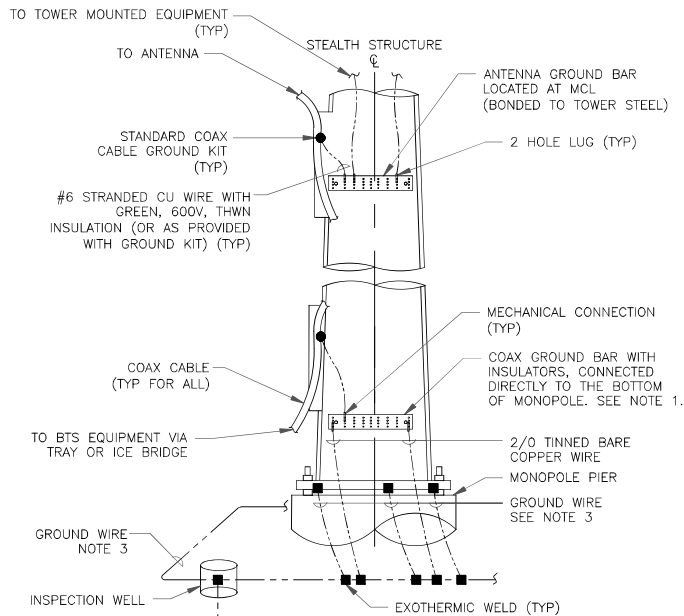
2 TOWER/SHELTER GROUND BAR DETAIL  
SCALE: NOT TO SCALE



NOTES:

1. GROUND ROD SHALL BE DRIVEN VERTICALLY, NOT TO EXCEED 45 DEGREES FROM THE VERTICAL.
2. GROUND WIRE SHALL BE MIN. 30\"/>

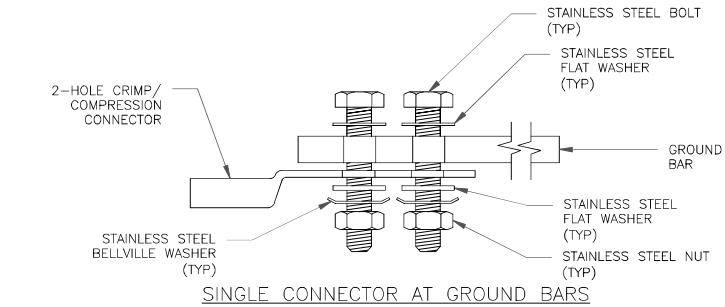
3 INSPECTION WELL DETAIL  
SCALE: NOT TO SCALE



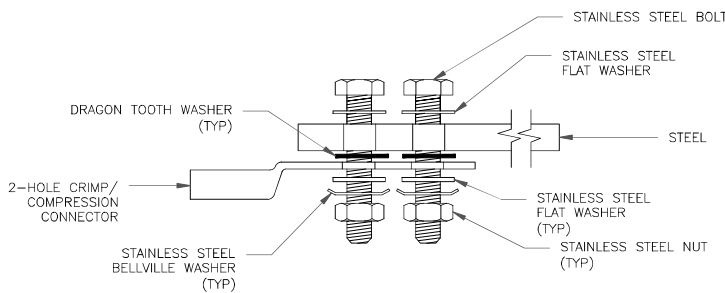
NOTES:

1. NUMBER OF GROUNDING BARS MAY VARY DEPENDING ON THE TYPE OF TOWER, ANTENNA LOCATIONS AND CONNECTION ORIENTATION. COAXIAL CABLES EXCEEDING 200 FEET ON THE TOWER SHALL HAVE GROUND KITS AT THE MIDPOINT. PROVIDE AS REQUIRED.
2. ONLY MECHANICAL CONNECTIONS ARE ALLOWED TO BE MADE TO CROWN CASTLE USA INC. TOWERS. ALL MECHANICAL CONNECTIONS SHALL BE TREATED WITH AN ANTI-OXIDANT COATING.
3. ALL TOWER GROUNDING SYSTEMS SHALL COMPLY WITH THE REQUIREMENTS OF THE RECOGNIZED EDITION OF ANSI/TIA 222 AND NFPA 780.

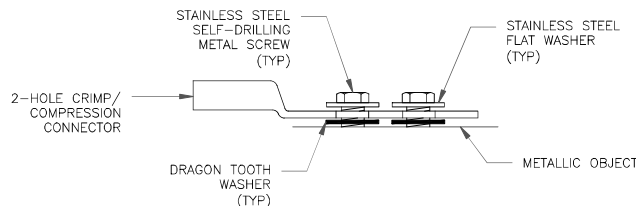
4 TYPICAL ANTENNA CABLE GROUNDING  
SCALE: NOT TO SCALE



SINGLE CONNECTOR AT GROUND BARS

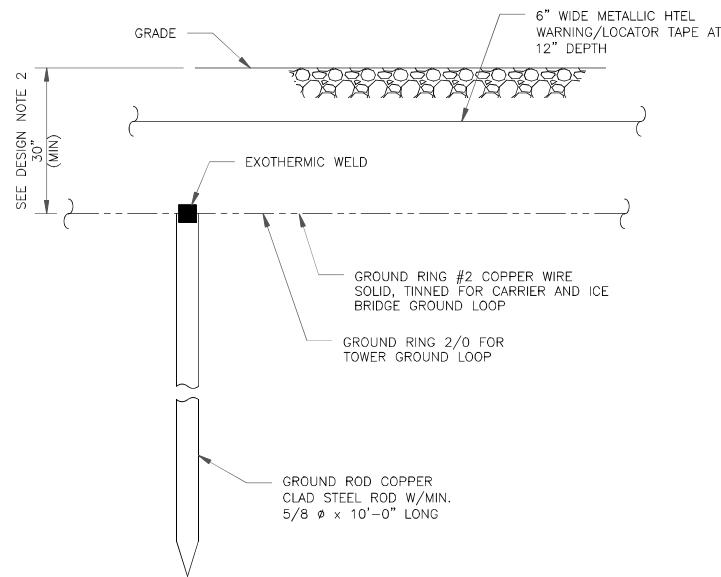


SINGLE CONNECTOR AT STEEL OBJECTS



SINGLE CONNECTOR AT METALLIC/STEEL OBJECTS

5 HARDWARE DETAIL FOR EXTERIOR CONNECTIONS  
SCALE: NOT TO SCALE



NOTES:

1. GROUND ROD SHALL BE DRIVEN VERTICALLY, NOT TO EXCEED 45 DEGREES FROM THE VERTICAL.
2. GROUND WIRE SHALL BE MIN. 30\"/>

6 GROUND ROD DETAIL  
SCALE: NOT TO SCALE

T-Mobile

121 W. ELECTION RD., SUITE 330  
DRAPER, UT 84020

CROWN  
CASTLE

2055 S. STEARMAN DRIVE  
CHANDLER, AZ 85286

POD  
POWER OF DESIGN

11490 BLUEGRASS PKWY  
LOUISVILLE, KY 40299  
502-437-5252

T-MOBILE SITE NUMBER:  
**SL01206F**

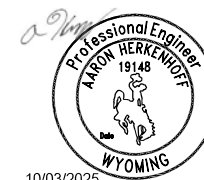
BU #: **831885**  
**JACKSON DT**

275 NORTH WILLOW ST.  
JACKSON, WYOMING 83001

EXISTING 55'-0" STEALTH  
STRUCTURE

ISSUED FOR:

| REV | DATE       | DRWN | DESCRIPTION  | DES./QA |
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10/03/2025

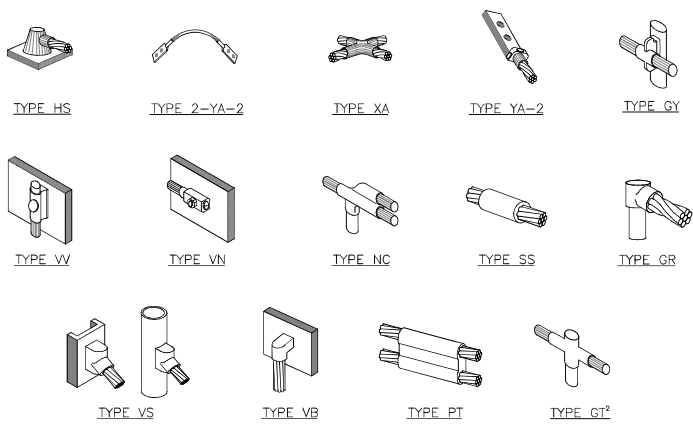
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SHEET NUMBER:

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REVISION:

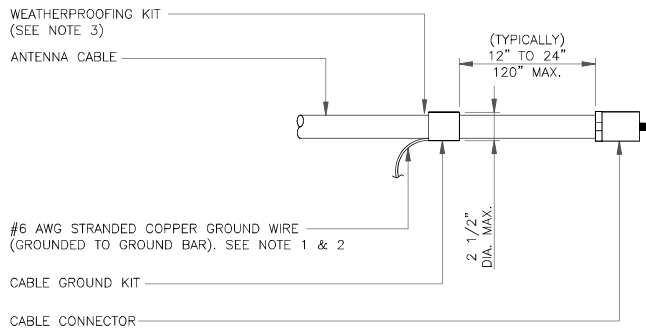
1



NOTE:

1. ERICO EXOTHERMIC "MOLD TYPES" SHOWN HERE ARE EXAMPLES. CONSULT WITH CONSTRUCTION MANAGER FOR SPECIFIC MOLDS TO BE USED FOR THIS PROJECT.
2. MOLD TYPE ONLY TO BE USED BELOW GRADE WHEN CONNECTING GROUND RING TO GROUND ROD.

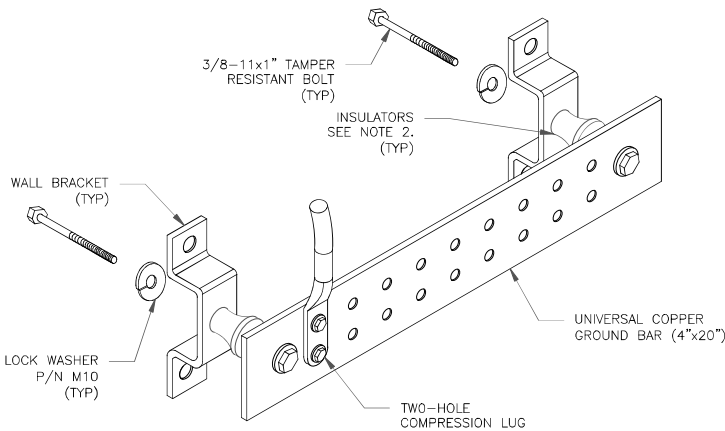
1 CADWELD GROUNDING CONNECTIONS  
SCALE: NOT TO SCALE



NOTES:

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

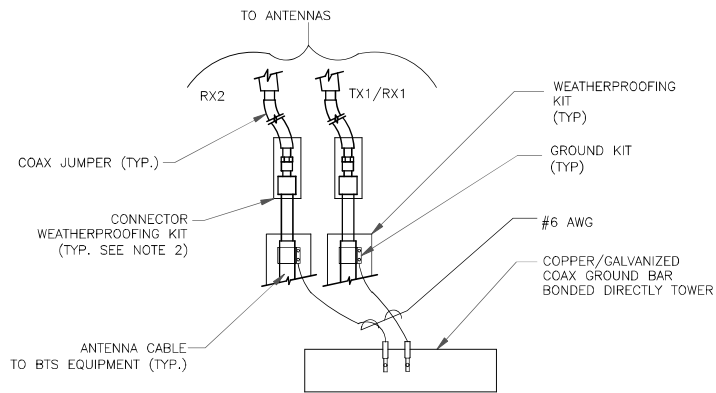
3 CABLE GROUND KIT CONNECTION  
SCALE: NOT TO SCALE



NOTES:

1. DOWN LEAD (HOME RUN) CONDUCTORS ARE NOT TO BE INSTALLED ON CROWN CASTLE USA INC. TOWER, PER THE GROUNDING DOWN CONDUCTOR POLICY QAS-STD-10091. NO MODIFICATION OR DRILLING TO TOWER STEEL IS ALLOWED IN ANY FORM OR FASHION, CAD-WELDING ON THE TOWER AND/OR IN THE AIR ARE NOT PERMITTED.
2. OMIT INSULATOR WHEN MOUNTING TO TOWER STEEL OR PLATFORM STEEL. USE INSULATORS WHEN ATTACHING TO BUILDING OR SHELTERS.

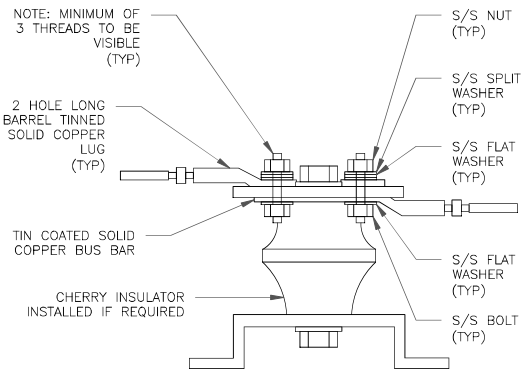
6 GROUND BAR DETAIL  
SCALE: NOT TO SCALE



NOTES:

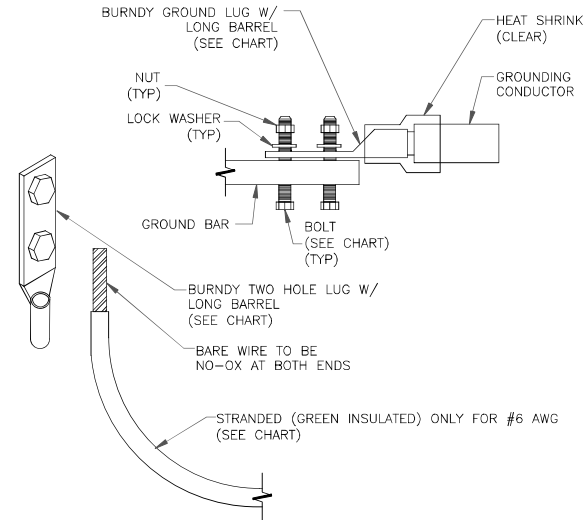
1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO ANTENNA GROUND BAR.
2. WEATHER PROOFING SHALL BE TWO-PART TAPE KIT, COLD SHRINK SHALL NOT BE USED.

4 GROUND CABLE CONNECTION  
SCALE: NOT TO SCALE



7 LUG DETAIL  
SCALE: NOT TO SCALE

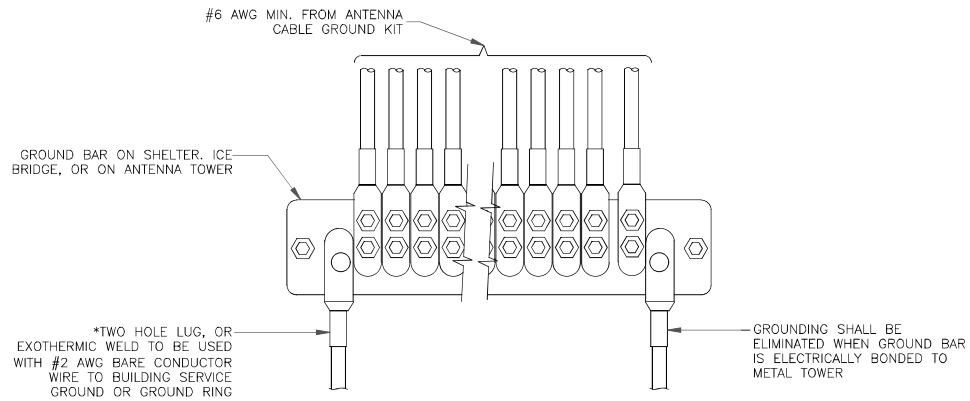
| WIRE SIZE              | BURNDY LUG | BOLT SIZE             |
|------------------------|------------|-----------------------|
| #6 AWG GREEN INSULATED | YA6C-2TC38 | 3/8" - 16 NC S 2 BOLT |
| #2 AWG SOLID TINNED    | YA3C-2TC38 | 3/8" - 16 NC S 2 BOLT |
| #2 AWG STRANDED        | YA2C-2TC38 | 3/8" - 16 NC S 2 BOLT |
| #2/0 AWG STRANDED      | YA26-2TC38 | 3/8" - 16 NC S 2 BOLT |
| #4/0 AWG STRANDED      | YA28-2N    | 1/2" - 16 NC S 2 BOLT |



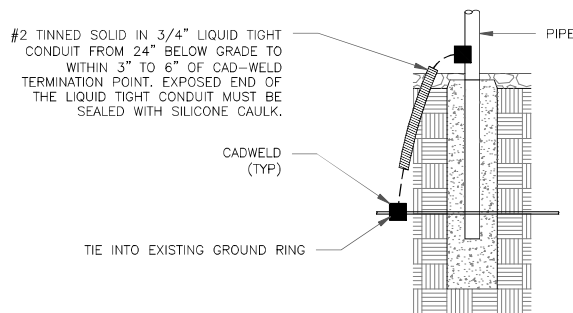
NOTES:

1. ALL GROUNDING LUGS ARE TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS. ALL HARDWARE BOLTS, NUTS, LOCK WASHERS SHALL BE STAINLESS STEEL. ALL HARDWARE ARE TO BE AS FOLLOWS: BOLT, FLAT WASHER, GROUND BAR, GROUND LUG, FLAT WASHER AND NUT.

2 MECHANICAL LUG CONNECTION  
SCALE: NOT TO SCALE



5 GROUNDWIRE INSTALLATION  
SCALE: NOT TO SCALE



8 TRANSITIONING GROUND DETAIL  
SCALE: NOT TO SCALE

**T-Mobile**  
121 W. ELECTION RD., SUITE 330  
DRAPER, UT 84020

**CROWN CASTLE**  
2055 S. STEARMAN DRIVE  
CHANDLER, AZ 85286

**POD**  
POWER OF DESIGN  
11490 BLUEGRASS PKWY  
LOUISVILLE, KY 40299  
502-437-5252

T-MOBILE SITE NUMBER:  
**SL01206F**

BU #: **831885**  
**JACKSON DT**

275 NORTH WILLOW ST.  
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EXISTING 55'-0" STEALTH  
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SHEET NUMBER:

**G-3**

REVISION:

**1**

Date: **September 11, 2025**



WY COA# E-1563

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

**Subject: Structural Analysis Report**

**Carrier Designation:**

**T-Mobile Co-Locate**

**Site Number:**

SL01206F

**Site Name:**

Jackson Downtown

**Crown Castle Designation:**

**BU Number:**

831885

**Site Name:**

Jackson DT

**JDE Job Number:**

2151602

**Work Order Number:**

2422174

**Order Number:**

708594 Rev. 2

**Engineering Firm Designation:**

**TEP Project Number:**

309257.1151610

**Site Data:**

**275 North Willow St., Jackson, Teton County, WY 83001**

**Latitude 43° 28' 51.55", Longitude -110° 45' 34.62"**

**55 Foot - Bell Tower**

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

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

LC7: Proposed Equipment Configuration

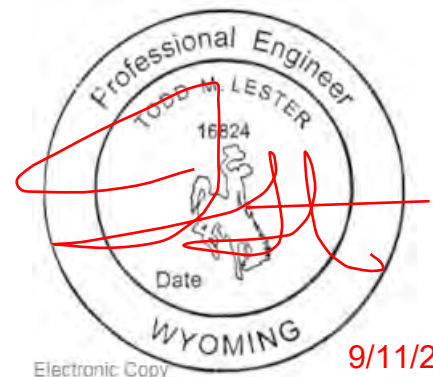
**Sufficient Capacity**

This analysis has been performed in accordance with the 2024 International Building Code based upon an ultimate 3-second gust wind speed of 105 mph. Applicable Standard references and design criteria are listed in Section 2 - Analysis Criteria.

Structural analysis prepared by: Paul Stewart, P.E. / SMS

Respectfully submitted by:

Todd Lester, P.E.



**9/11/2025**

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## 1) INTRODUCTION

This tower is a 55-ft bell tower designed by Vector Engineers.

## 2) ANALYSIS CRITERIA

|                            |           |
|----------------------------|-----------|
| <b>TIA-222 Revision:</b>   | TIA-222-I |
| <b>Risk Category:</b>      | II        |
| <b>Wind Speed:</b>         | 105 mph   |
| <b>Exposure Category:</b>  | C         |
| <b>Topographic Factor:</b> | 1.0       |
| <b>Seismic Ss:</b>         | 1.14      |
| <b>Seismic S1:</b>         | 0.33      |
| <b>Service Wind Speed:</b> | 60 mph    |
| <b>Ground Snow Load:</b>   | 140 psf   |

**Table 1 - Proposed Equipment Configuration**

| Mounting Level (ft) | Center Line Elevation (ft) | Number of Antennas | Antenna Manufacturer | Antenna Model                         | Number of Feed Lines | Feed Line Size (in) |
|---------------------|----------------------------|--------------------|----------------------|---------------------------------------|----------------------|---------------------|
| 49.0                | 50.0                       | 3                  | Commscope            | FFV4-65B-R6                           | 3                    | 1-5/8               |
|                     |                            | 3                  | Ericsson             | RADIO 4460 B2/B25<br>B66_20210820_TMO |                      |                     |
|                     |                            | 3                  | Ericsson             | RADIO 4480 B71<br>B85A_20210820_TMO   |                      |                     |
|                     |                            | 3                  | Ericsson             | RADIO 8863 B41_TMO                    |                      |                     |

**Table 2 - Other Considered Equipment**

| Mounting Level (ft) | Center Line Elevation (ft) | Number of Antennas | Antenna Manufacturer | Antenna Model             | Number of Feed Lines | Feed Line Size (in) |
|---------------------|----------------------------|--------------------|----------------------|---------------------------|----------------------|---------------------|
| 38.0                | 41.0                       | 8                  | Commscope            | NHHSS-45B-R2BT4           | 56                   | 1/2                 |
| 24.0                | 27.0                       | 3                  | Ericsson             | AIR 6419                  | 2                    | 1-5/8               |
|                     | 24.0                       | 3                  | Commscope            | NNH4SS-65C-R3BT8          |                      |                     |
|                     |                            | 3                  | Ericsson             | Radio 4490HP 44B5 44B13 C |                      |                     |
|                     |                            | 3                  | Ericsson             | Radio 4890HP B2/B25 B66   |                      |                     |
|                     |                            | 2                  | Raycap               | RCMDC-6627-PF-48          |                      |                     |

## 3) ANALYSIS PROCEDURE

**Table 3 - Documents Provided**

| Document                    | Reference | Source   |
|-----------------------------|-----------|----------|
| Geotechnical Report         | 10142711  | CCISites |
| Tower Foundation Drawings   | 10142716  | CCISites |
| Tower Manufacturer Drawings | 10142715  | CCISites |

### 3.1) Analysis Method

RISA-3D, a commercially available analysis software package, was used to create a three-dimensional model of the tower and calculate member stresses for various loading cases. Selected output from the analysis is included in Appendix A. When applicable, Crown Castle has calculated and provided the effective area for panel antennas using approved methods following the intent of the TIA-222 Standard.

### 3.2) Assumptions

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

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

## 4) ANALYSIS RESULTS

**Table 4 - Section Capacity (Summary)<sup>1</sup>**

| Elevation (ft) | Component Type   | Size            | Critical Element | % Capacity     | Pass / Fail |
|----------------|------------------|-----------------|------------------|----------------|-------------|
| 53.92 - 31.25  | Inner Leg        | HSS6X6X6        | -                | 37.5           | Pass        |
| 31.25 - 0.0    | Inner Leg        | HSS10X10X6      | -                | 19.9           | Pass        |
| 53.33 - 0.0    | Horizontal       | W12X22          | -                | 9.4            | Pass        |
| 53.67 - 0.0    | Outer Girt       | L4x4x4          | -                | 20.5           | Pass        |
| 53.92 - 0.0    | Mount Pipe       | PIPE_2.0NOMINAL | -                | 38.8           | Pass        |
| 53.33 - 29.83  | Outer Leg        | FRP HSS4x4x6    | -                | 25.9           | Pass        |
| 29.83 - 15.0   | Outer Leg        | FRP HSS4x4x6    | -                | 33.1           | Pass        |
| 15.0 - 0.0     | Outer Leg        | FRP HSS4x4x6    | -                | 22.5           | Pass        |
| 53.33          | Outer Horizontal | FRP HSS3x3x4    | -                | 11.6           | Pass        |
| 42.25          | Outer Horizontal | FRP HSS3x3x4    | -                | 12.4           | Pass        |
| 29.83          | Outer Horizontal | FRP HSS3x3x4    | -                | 12.7           | Pass        |
| 15.0           | Outer Horizontal | FRP HSS3x3x4    | -                | 15.7           | Pass        |
| 6.08 - 0.0     | Outer Horizontal | FRP HSS3x3x4    | -                | 19.7           | Pass        |
| 53.33          | Outrigger        | FRP HSS4x4x6    | -                | 18.0           | Pass        |
| 42.25          | Outrigger        | FRP HSS4x4x6    | -                | 17.5           | Pass        |
| 29.83          | Outrigger        | FRP HSS4x4x6    | -                | 10.5           | Pass        |
| 15.0           | Outrigger        | FRP HSS4x4x6    | -                | 8.7            | Pass        |
| 6.08           | Outrigger        | FRP HSS4x4x6    | -                | 6.7            | Pass        |
|                |                  |                 |                  | <b>Summary</b> |             |
|                |                  |                 | Inner Leg        | 37.5           | Pass        |
|                |                  |                 | Horizontal       | 9.4            | Pass        |
|                |                  |                 | Outer Girt       | 20.5           | Pass        |
|                |                  |                 | Mount Pipe       | 38.8           | Pass        |
|                |                  |                 | FRP              | 33.1           | Pass        |
|                |                  |                 | <b>Rating =</b>  | <b>38.8</b>    | <b>Pass</b> |

**Table 5 - Tower Component Stresses vs. Capacity - LC7**

| Notes | Component                        | Elevation (ft) | % Capacity | Pass / Fail |
|-------|----------------------------------|----------------|------------|-------------|
| 1,2   | Anchor Rods                      | -              | 24.6       | Pass        |
| 1,2   | Base Plate                       | -              | 12.0       | Pass        |
| 1,2   | Base Foundation Structural       | -              | 15.3       | Pass        |
| 1,2   | Base Foundation Soil Interaction | -              | 34.2       | Pass        |

|                                                     |              |
|-----------------------------------------------------|--------------|
| <b>Structure Rating (max from all components) =</b> | <b>38.8%</b> |
|-----------------------------------------------------|--------------|

Notes:

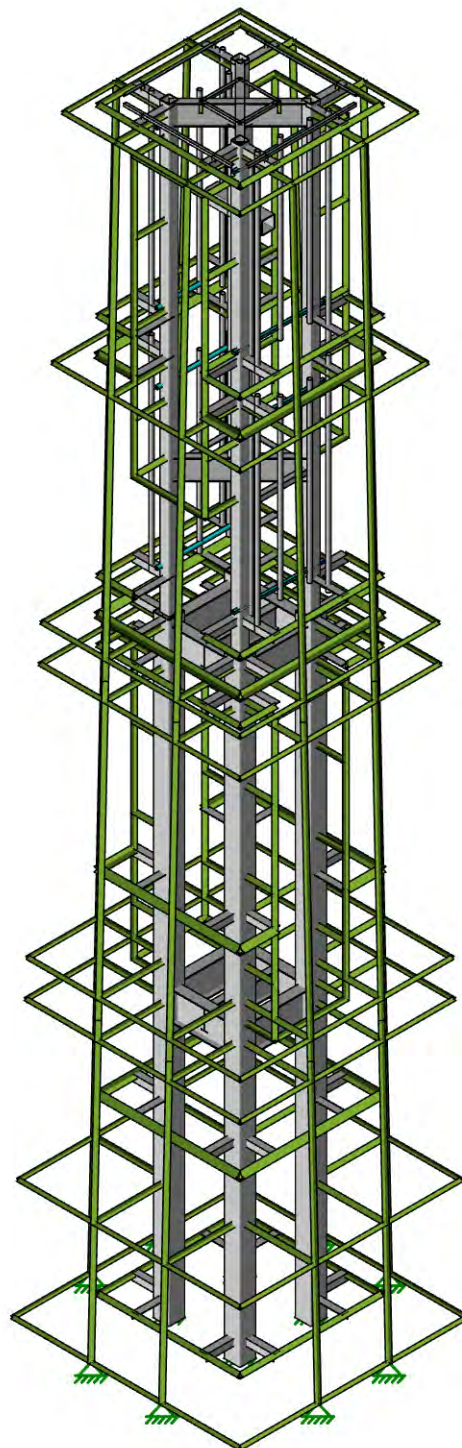
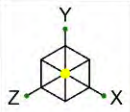
- 1) Rating per TIA-222-I Section 15.5
- 2) See additional documentation in "Appendix C - Additional Calculations" for calculations supporting the % capacity listed.

#### 4.1) Recommendations

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

## **APPENDIX A**

### **RISA-3D OUTPUT**



|                        |
|------------------------|
| TEP                    |
| PRS                    |
| TEP No. 309257.1151610 |

Jackson DT (BU 831885)

|                          |
|--------------------------|
| SK-1                     |
| Sep 08, 2025 at 11:01 AM |
| 831885_2422174_LC7.r3d   |



Company : TEP  
Designer : PRS  
Job Number : TEP No. 309257.1151610  
Model Name : Jackson DT (BU 831885)

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### Model Settings

|                                                    |     |
|----------------------------------------------------|-----|
| Number of Reported Sections                        | 5   |
| Number of Internal Sections                        | 100 |
| Member Area Load Mesh Size (in <sup>2</sup> )      | 144 |
| Consider Shear Deformation                         | Yes |
| Consider Torsional Warping                         | Yes |
| Approximate Mesh Size (in)                         | 12  |
| Transfer Forces Between Intersecting Wood Walls    | Yes |
| Increase Wood Wall Nailing Capacity for Wind Loads | Yes |
| Include P-Delta for Walls                          | Yes |
| Optimize Masonry and Wood Walls                    | Yes |
| Maximum Number of Iterations                       | 3   |
| Single                                             | No  |
| Multiple (Optimum)                                 | Yes |
| Maximum                                            | No  |

|                                                 |       |
|-------------------------------------------------|-------|
| Global Axis corresponding to vertical direction | Y     |
| Convert Existing Data                           | Yes   |
| Default Global Plane for z-axis                 | XZ    |
| Plate Local Axis Orientation                    | Nodal |

|                      |                         |
|----------------------|-------------------------|
| Hot Rolled Steel     | AISC 15th (360-16): ASD |
| Stiffness Adjustment | No                      |
| Notional Annex       | None                    |
| Connections          | None                    |
| Cold Formed Steel    | AISI S100-16: ASD       |
| Stiffness Adjustment | Yes (Iterative)         |
| Wood                 | None                    |
| Temperature          | < 100F                  |
| Concrete             | None                    |
| Masonry              | None                    |
| Aluminum             | None                    |
| Structure Type       | Building                |
| Stiffness Adjustment | No                      |
| Stainless            | None                    |
| Stiffness Adjustment | Yes (Iterative)         |

|                                                                |                          |
|----------------------------------------------------------------|--------------------------|
| Compression Stress Block                                       | Rectangular Stress Block |
| Analyze using Cracked Sections                                 | Yes                      |
| Leave room for horizontal rebar splices (2*d bar spacing)      | Yes                      |
| List forces which were ignored for design in the Detail Report | Yes                      |

|                                                           |           |
|-----------------------------------------------------------|-----------|
| Column Min Steel                                          | 1         |
| Column Max Steel                                          | 8         |
| Rebar Material Spec                                       | ASTM A615 |
| Warn if beam-column framing arrangement is not understood | No        |
| Number of Shear Regions                                   | 4         |
| Region 2 & 3 Spacing Increase Increment (in)              | 4         |

|               |           |
|---------------|-----------|
| Code          | ASCE 7-22 |
| Risk Category | I or II   |
| Drift Cat     | Other     |



Company : TEP  
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Model Name : Jackson DT (BU 831885)

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**Model Settings (Continued)**

|                                                         |      |
|---------------------------------------------------------|------|
| Base Elevation (ft)                                     |      |
| Include the weight of the structure in base shear calcs | Yes  |
| $S_s$ (g)                                               | 1    |
| $SD_1$ (g)                                              | 1    |
| $SD_s$ (g)                                              | 1    |
| $T_1$ (sec)                                             | 5    |
| T Z (sec)                                               |      |
| T X (sec)                                               |      |
| $C_z$                                                   | 0.02 |
| $C_x$                                                   | 0.02 |
| $C_{Exp. Z}$                                            | 0.75 |
| $C_{Exp. X}$                                            | 0.75 |
| R Z                                                     | 3    |
| R X                                                     | 3    |
| $\Omega_0 Z$                                            | 1    |
| $\Omega_0 X$                                            | 1    |
| $C_0 Z$                                                 | 1    |
| $C_0 X$                                                 | 1    |
| $\rho Z$                                                | 1    |
| $\rho X$                                                | 1    |



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### Hot Rolled Steel Properties

|   | Label      | E [ksi] | G [ksi] | Nu   | Therm. Coeff. [ $10^{-6} \text{F}^{-1}$ ] | Density [k/ft <sup>3</sup> ] | Yield [ksi] | Ry  | Fu [ksi] | Rt  |
|---|------------|---------|---------|------|-------------------------------------------|------------------------------|-------------|-----|----------|-----|
| 1 | A36 Gr.36  | 29000   | 11154   | 0.3  | 0.65                                      | 0.49                         | 36          | 1.5 | 58       | 1.2 |
| 2 | A572 Gr.50 | 29000   | 11154   | 0.3  | 0.65                                      | 0.49                         | 50          | 1.1 | 65       | 1.1 |
| 3 | A992       | 29000   | 11154   | 0.3  | 0.65                                      | 0.49                         | 50          | 1.1 | 65       | 1.1 |
| 4 | A500 Gr.42 | 29000   | 11154   | 0.3  | 0.65                                      | 0.49                         | 42          | 1.4 | 58       | 1.3 |
| 5 | A500 Gr.46 | 29000   | 11154   | 0.3  | 0.65                                      | 0.49                         | 46          | 1.4 | 58       | 1.3 |
| 6 | FRP        | 2600    | 450     | 0.35 | 0.44                                      | 0.13                         | 10          | 0   | 0        | 0   |
| 7 | A53-B-35   | 29000   | 11154   | 0.3  | 0.65                                      | 0.49                         | 35          | 1.5 | 60       | 1.2 |

### Cold Formed Steel Properties

|   | Label         | E [ksi] | G [ksi] | Nu  | Therm. Coeff. [ $10^{-6} \text{F}^{-1}$ ] | Density [k/ft <sup>3</sup> ] | Yield [ksi] | Fu [ksi] |
|---|---------------|---------|---------|-----|-------------------------------------------|------------------------------|-------------|----------|
| 1 | A570 Gr.33    | 29500   | 11346   | 0.3 | 0.65                                      | 0.49                         | 33          | 52       |
| 2 | A607 C1 Gr.55 | 29500   | 11346   | 0.3 | 0.65                                      | 0.49                         | 55          | 70       |

### Hot Rolled Steel Section Sets

|    | Label         | Shape           | Type   | Design List  | Material   | Design Rule | Area [in <sup>2</sup> ] | Iyy [in <sup>4</sup> ] | Izz [in <sup>4</sup> ] | J [in <sup>4</sup> ] |
|----|---------------|-----------------|--------|--------------|------------|-------------|-------------------------|------------------------|------------------------|----------------------|
| 1  | Mount Pipe    | PIPE 2.0NOMINAL | None   | None         | A53-B-35   | Typical     | 1.075                   | 0.666                  | 0.666                  | 1.331                |
| 2  | TWR_LEG T1    | HSS10X10X6      | Column | Tube         | A500 Gr.42 | Typical     | 13.2                    | 202                    | 202                    | 320                  |
| 3  | Inner Girt 1  | W18X35          | Beam   | Wide Flange  | A992       | Typical     | 10.3                    | 15.3                   | 510                    | 0.506                |
| 4  | Inner Girt 2  | W12X22          | Beam   | Wide Flange  | A992       | Typical     | 6.48                    | 4.66                   | 156                    | 0.293                |
| 5  | Inner Girt 3  | L3X3X5          | HBrace | Single Angle | A36 Gr.36  | Typical     | 1.78                    | 1.5                    | 1.5                    | 0.06                 |
| 6  | Outer Girt 1  | HSS4X4X6        | Beam   | Tube         | A500 Gr.42 | Typical     | 4.78                    | 10.3                   | 10.3                   | 17.5                 |
| 7  | TWR_LEG T2    | HSS6X6X6        | Column | Tube         | A500 Gr.42 | Typical     | 7.58                    | 39.5                   | 39.5                   | 64.6                 |
| 8  | Outer Girt 2  | L4X4X4          | HBrace | Single Angle | A36 Gr.36  | Typical     | 1.93                    | 3                      | 3                      | 0.044                |
| 9  | TWR_LEG OUTER | HSS4X4X6        | Column | Tube         | A500 Gr.42 | Typical     | 4.78                    | 10.3                   | 10.3                   | 17.5                 |
| 10 | Cross         | HSS8X8X6        | None   | None         | A500 Gr.42 | Typical     | 10.4                    | 100                    | 100                    | 160                  |

### Cold Formed Steel Section Sets

|   | Label | Shape          | Type | Design List | Material   | Design Rule | Area [in <sup>2</sup> ] | Iyy [in <sup>4</sup> ] | Izz [in <sup>4</sup> ] | J [in <sup>4</sup> ] |
|---|-------|----------------|------|-------------|------------|-------------|-------------------------|------------------------|------------------------|----------------------|
| 1 | UNI   | Unistrut 1.625 | Beam | None        | A570 Gr.33 | Typical     | 0.464                   | 0.121                  | 0.201                  | 0.002                |
| 2 | CF1A  | 1.5CU1.25X035  | Beam | None        | A570 Gr.33 | Typical     | 0.131                   | 0.022                  | 0.052                  | 5.4e-5               |

### Material Take-Off

|    | Material             | Size            | Pieces | Length[ft] | Weight[K] |
|----|----------------------|-----------------|--------|------------|-----------|
| 1  | General Members      |                 |        |            |           |
| 2  | FRP Structural Shape | FRPHSS4X4X6 GMA | 80     | 612.6      | 3.03      |
| 3  | FRP Structural Shape | FRP-L4X4X3/8    | 82     | 336.5      | 0.863     |
| 4  | FRP Structural Shape | FRP-L6X6X3/8    | 20     | 100.7      | 0.394     |
| 5  | RIGID                |                 | 66     | 11.5       | 0         |
| 6  | FRP Structural Shape | FRPHSS3X3X4     | 32     | 333.6      | 0.825     |
| 7  | Total General        |                 | 280    | 1394.8     | 5.113     |
| 8  |                      |                 |        |            |           |
| 9  | Hot Rolled Steel     |                 |        |            |           |
| 10 | A36 Gr.36            | L3X3X5          | 3      | 10.9       | 0.066     |
| 11 | A36 Gr.36            | L4X4X4          | 72     | 128.6      | 0.845     |
| 12 | A500 Gr.42           | HSS10X10X6      | 4      | 125        | 5.615     |
| 13 | A500 Gr.42           | HSS6X6X6        | 4      | 90.7       | 2.339     |
| 14 | A500 Gr.42           | L11/2X11/2X3    | 8      | 30         | 0.054     |
| 15 | A500 Gr.42           | HSS8X8X6        | 2      | 17.6       | 0.623     |
| 16 | A53-B-35             | PIPE 2.0NOMINAL | 26     | 246        | 0.899     |



Company : TEP  
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#### Material Take-Off (Continued)

|    | Material          | Size           | Pieces | Length[ft] | Weight[K] |
|----|-------------------|----------------|--------|------------|-----------|
| 17 | A992              | W12X22         | 6      | 27.8       | 0.612     |
| 18 | A992              | W18X35         | 8      | 29         | 1.016     |
| 19 | Total HR Steel    |                | 133    | 705.5      | 12.068    |
| 20 |                   |                |        |            |           |
| 21 | Cold Formed Steel |                |        |            |           |
| 22 | A570 Gr.33        | Unistrut 1.625 | 8      | 37         | 0.058     |
| 23 | Total CF Steel    |                | 8      | 37         | 0.058     |

#### Node Boundary Conditions

|    | Node Label | X [k/in] | Y [k/in] | Z [k/in] | X Rot [k-ft/rad] | Y Rot [k-ft/rad] | Z Rot [k-ft/rad] |
|----|------------|----------|----------|----------|------------------|------------------|------------------|
| 1  | N1         | Reaction | Reaction | Reaction | Reaction         | Reaction         | Reaction         |
| 2  | N2         | Reaction | Reaction | Reaction | Reaction         | Reaction         | Reaction         |
| 3  | N4         | Reaction | Reaction | Reaction | Reaction         | Reaction         | Reaction         |
| 4  | N3         | Reaction | Reaction | Reaction | Reaction         | Reaction         | Reaction         |
| 5  | N11        | Reaction | Reaction | Reaction |                  |                  |                  |
| 6  | N12        | Reaction | Reaction | Reaction |                  |                  |                  |
| 7  | N5         | Reaction | Reaction | Reaction |                  |                  |                  |
| 8  | N6         | Reaction | Reaction | Reaction |                  |                  |                  |
| 9  | N10        | Reaction | Reaction | Reaction |                  |                  |                  |
| 10 | N9         | Reaction | Reaction | Reaction |                  |                  |                  |
| 11 | N8         | Reaction | Reaction | Reaction |                  |                  |                  |
| 12 | N7         | Reaction | Reaction | Reaction |                  |                  |                  |

#### Member Primary Data

|    | Label | I Node | J Node | Rotate(deg) | Section/Shape | Type   | Design List  | Material             | Design Rule |
|----|-------|--------|--------|-------------|---------------|--------|--------------|----------------------|-------------|
| 1  | M1    | N1     | N29    |             | TWR LEG T1    | Column | Tube         | A500 Gr.42           | Typical     |
| 2  | M2    | N2     | N30    |             | TWR LEG T1    | Column | Tube         | A500 Gr.42           | Typical     |
| 3  | M3    | N4     | N32    |             | TWR LEG T1    | Column | Tube         | A500 Gr.42           | Typical     |
| 4  | M4    | N3     | N31    |             | TWR LEG T1    | Column | Tube         | A500 Gr.42           | Typical     |
| 5  | M5    | N29    | N25    |             | TWR LEG T2    | Column | Tube         | A500 Gr.42           | Typical     |
| 6  | M6    | N30    | N26    |             | TWR LEG T2    | Column | Tube         | A500 Gr.42           | Typical     |
| 7  | M7    | N32    | N28    |             | TWR LEG T2    | Column | Tube         | A500 Gr.42           | Typical     |
| 8  | M8    | N31    | N27    |             | TWR LEG T2    | Column | Tube         | A500 Gr.42           | Typical     |
| 9  | M9    | N45    | N46    |             | Inner Girt 1  | Beam   | Wide Flange  | A992                 | Typical     |
| 10 | M10   | N46    | N48    |             | Inner Girt 1  | Beam   | Wide Flange  | A992                 | Typical     |
| 11 | M11   | N48    | N47    |             | Inner Girt 1  | Beam   | Wide Flange  | A992                 | Typical     |
| 12 | M12   | N47    | N45    |             | Inner Girt 1  | Beam   | Wide Flange  | A992                 | Typical     |
| 13 | M13   | N49A   | N50A   |             | Inner Girt 1  | Beam   | Wide Flange  | A992                 | Typical     |
| 14 | M14   | N50A   | N52A   |             | Inner Girt 1  | Beam   | Wide Flange  | A992                 | Typical     |
| 15 | M15   | N52A   | N51A   |             | Inner Girt 1  | Beam   | Wide Flange  | A992                 | Typical     |
| 16 | M16   | N51A   | N49A   |             | Inner Girt 1  | Beam   | Wide Flange  | A992                 | Typical     |
| 17 | M17   | N53A   | N56A   |             | Inner Girt 2  | Beam   | Wide Flange  | A992                 | Typical     |
| 18 | M18   | N54A   | N55A   |             | Inner Girt 2  | Beam   | Wide Flange  | A992                 | Typical     |
| 19 | M19   | N57    | N60    |             | Inner Girt 2  | Beam   | Wide Flange  | A992                 | Typical     |
| 20 | M20   | N58    | N59    |             | Inner Girt 2  | Beam   | Wide Flange  | A992                 | Typical     |
| 21 | M21   | N55A   | N53A   | 90          | Inner Girt 3  | HBrace | Single Angle | A36 Gr.36            | Typical     |
| 22 | M22   | N53A   | N54A   | 90          | Inner Girt 3  | HBrace | Single Angle | A36 Gr.36            | Typical     |
| 23 | M23   | N54A   | N56A   | 90          | Inner Girt 3  | HBrace | Single Angle | A36 Gr.36            | Typical     |
| 24 | M26   | N40    | N91    |             | Outrigger     | Beam   | None         | FRP Structural Shape | DR1 2       |
| 25 | M28   | N48    | N97    |             | Outrigger     | Beam   | None         | FRP Structural Shape | DR1 2       |
| 26 | M30   | N16    | N99    |             | Outrigger     | Beam   | None         | FRP Structural Shape | DR1 2       |
| 27 | M30A  | N70    | N97A   |             | Outrigger     | Beam   | None         | FRP Structural Shape | DR1 2       |
| 28 | M31   | N74    | N98    |             | Outrigger     | Beam   | None         | FRP Structural Shape | DR1 2       |



Company : TEP  
Designer : PRS  
Job Number : TEP No. 309257.1151610  
Model Name : Jackson DT (BU 831885)

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### Member Primary Data (Continued)

|    | Label | I Node | J Node | Rotate(deg) | Section/Shape   | Type   | Design List  | Material             | Design Rule |
|----|-------|--------|--------|-------------|-----------------|--------|--------------|----------------------|-------------|
| 29 | M32   | N100   | N102   |             | Outrigger       | Beam   | None         | FRP Structural Shape | DR1 2       |
| 30 | M33   | N38    | N94    |             | Outrigger       | Beam   | None         | FRP Structural Shape | DR1 2       |
| 31 | M34   | N46    | N106   |             | Outrigger       | Beam   | None         | FRP Structural Shape | DR1 2       |
| 32 | M35   | N14    | N107   |             | Outrigger       | Beam   | None         | FRP Structural Shape | DR1 2       |
| 33 | M36   | N68    | N108   |             | Outrigger       | Beam   | None         | FRP Structural Shape | DR1 2       |
| 34 | M37   | N72    | N109   |             | Outrigger       | Beam   | None         | FRP Structural Shape | DR1 2       |
| 35 | M38   | N60    | N50    |             | Outrigger       | Beam   | None         | FRP Structural Shape | DR1 2       |
| 36 | M38A  | N98A   | N111   |             | Outrigger       | Beam   | None         | FRP Structural Shape | DR1 2       |
| 37 | M38B  | N6     | N107A  |             | Outer Tower Leg | Beam   | None         | FRP Structural Shape | DR1 2       |
| 38 | M39   | N58    | N49    |             | Outrigger       | Beam   | None         | FRP Structural Shape | DR1 2       |
| 39 | M39A  | N107A  | N108A  |             | Outer Tower Leg | Beam   | None         | FRP Structural Shape | DR1 2       |
| 40 | M40   | N108A  | N50    |             | Outer Tower Leg | Beam   | None         | FRP Structural Shape | DR1 2       |
| 41 | M41   | N5     | N111A  |             | Outer Tower Leg | Beam   | None         | FRP Structural Shape | DR1 2       |
| 42 | M42   | N111A  | N112   |             | Outer Tower Leg | Beam   | None         | FRP Structural Shape | DR1 2       |
| 43 | M43   | N112   | N49    |             | Outer Tower Leg | Beam   | None         | FRP Structural Shape | DR1 2       |
| 44 | M44   | N36    | N111B  | 180         | Outer Girt 2    | HBrace | Single Angle | A36 Gr.36            | Typical     |
| 45 | M45   | N44    | N113   | 180         | Outer Girt 2    | HBrace | Single Angle | A36 Gr.36            | Typical     |
| 46 | M46   | N66    | N114   | 180         | Outer Girt 2    | HBrace | Single Angle | A36 Gr.36            | Typical     |
| 47 | M47   | N114A  | N115   | 180         | Outer Girt 2    | HBrace | Single Angle | A36 Gr.36            | Typical     |
| 48 | M48   | N116   | N117   | 180         | Outer Girt 2    | HBrace | Single Angle | A36 Gr.36            | Typical     |
| 49 | M49   | N78    | N119   | 180         | Outer Girt 2    | HBrace | Single Angle | A36 Gr.36            | Typical     |
| 50 | M50   | N82    | N120   | 180         | Outer Girt 2    | HBrace | Single Angle | A36 Gr.36            | Typical     |
| 51 | M51   | N86    | N121   | 180         | Outer Girt 2    | HBrace | Single Angle | A36 Gr.36            | Typical     |
| 52 | M52   | N90    | N122   | 180         | Outer Girt 2    | HBrace | Single Angle | A36 Gr.36            | Typical     |
| 53 | M53   | N34    | N129   | 90          | Outer Girt 2    | HBrace | Single Angle | A36 Gr.36            | Typical     |
| 54 | M54   | N42    | N130   | 90          | Outer Girt 2    | HBrace | Single Angle | A36 Gr.36            | Typical     |
| 55 | M55   | N64    | N131   | 90          | Outer Girt 2    | HBrace | Single Angle | A36 Gr.36            | Typical     |
| 56 | M56   | N132   | N133   | 90          | Outer Girt 2    | HBrace | Single Angle | A36 Gr.36            | Typical     |
| 57 | M57   | N134   | N135   | 90          | Outer Girt 2    | HBrace | Single Angle | A36 Gr.36            | Typical     |
| 58 | M58   | N76    | N136   | 90          | Outer Girt 2    | HBrace | Single Angle | A36 Gr.36            | Typical     |
| 59 | M59   | N80    | N137   | 90          | Outer Girt 2    | HBrace | Single Angle | A36 Gr.36            | Typical     |
| 60 | M60   | N84    | N138   | 90          | Outer Girt 2    | HBrace | Single Angle | A36 Gr.36            | Typical     |
| 61 | M61   | N88    | N139   | 90          | Outer Girt 2    | HBrace | Single Angle | A36 Gr.36            | Typical     |
| 62 | M78   | N34    | N147   | 180         | Outer Girt 2    | HBrace | Single Angle | A36 Gr.36            | Typical     |
| 63 | M79   | N42    | N148   | 180         | Outer Girt 2    | HBrace | Single Angle | A36 Gr.36            | Typical     |
| 64 | M80   | N64    | N149   | 180         | Outer Girt 2    | HBrace | Single Angle | A36 Gr.36            | Typical     |
| 65 | M81   | N132   | N151   | 180         | Outer Girt 2    | HBrace | Single Angle | A36 Gr.36            | Typical     |
| 66 | M82   | N134   | N153   | 180         | Outer Girt 2    | HBrace | Single Angle | A36 Gr.36            | Typical     |
| 67 | M83   | N76    | N154   | 180         | Outer Girt 2    | HBrace | Single Angle | A36 Gr.36            | Typical     |
| 68 | M84   | N80    | N155   | 180         | Outer Girt 2    | HBrace | Single Angle | A36 Gr.36            | Typical     |
| 69 | M85   | N84    | N156   | 180         | Outer Girt 2    | HBrace | Single Angle | A36 Gr.36            | Typical     |
| 70 | M86   | N88    | N157   | 180         | Outer Girt 2    | HBrace | Single Angle | A36 Gr.36            | Typical     |
| 71 | M87   | N33    | N158   | 90          | Outer Girt 2    | HBrace | Single Angle | A36 Gr.36            | Typical     |
| 72 | M88   | N41    | N159   | 90          | Outer Girt 2    | HBrace | Single Angle | A36 Gr.36            | Typical     |
| 73 | M89   | N63    | N160   | 90          | Outer Girt 2    | HBrace | Single Angle | A36 Gr.36            | Typical     |
| 74 | M90   | N161   | N162   | 90          | Outer Girt 2    | HBrace | Single Angle | A36 Gr.36            | Typical     |
| 75 | M91   | N163   | N164   | 90          | Outer Girt 2    | HBrace | Single Angle | A36 Gr.36            | Typical     |
| 76 | M92   | N75    | N165   | 90          | Outer Girt 2    | HBrace | Single Angle | A36 Gr.36            | Typical     |
| 77 | M93   | N79    | N166   | 90          | Outer Girt 2    | HBrace | Single Angle | A36 Gr.36            | Typical     |
| 78 | M94   | N83    | N167   | 90          | Outer Girt 2    | HBrace | Single Angle | A36 Gr.36            | Typical     |
| 79 | M95   | N87    | N168   | 90          | Outer Girt 2    | HBrace | Single Angle | A36 Gr.36            | Typical     |
| 80 | M96   | N33    | N183   | 180         | Outer Girt 2    | HBrace | Single Angle | A36 Gr.36            | Typical     |
| 81 | M97   | N41    | N184   | 180         | Outer Girt 2    | HBrace | Single Angle | A36 Gr.36            | Typical     |
| 82 | M98   | N63    | N185   | 180         | Outer Girt 2    | HBrace | Single Angle | A36 Gr.36            | Typical     |
| 83 | M99   | N161   | N187   | 180         | Outer Girt 2    | HBrace | Single Angle | A36 Gr.36            | Typical     |



Company : TEP  
Designer : PRS  
Job Number : TEP No. 309257.1151610  
Model Name : Jackson DT (BU 831885)

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**Member Primary Data (Continued)**

|     | Label | I Node | J Node | Rotate(deg) | Section/Shape | Type   | Design List  | Material             | Design Rule |
|-----|-------|--------|--------|-------------|---------------|--------|--------------|----------------------|-------------|
| 84  | M100  | N163   | N189   | 180         | Outer Girt 2  | HBrace | Single Angle | A36 Gr.36            | Typical     |
| 85  | M101  | N75    | N190   | 180         | Outer Girt 2  | HBrace | Single Angle | A36 Gr.36            | Typical     |
| 86  | M102  | N79    | N191   | 180         | Outer Girt 2  | HBrace | Single Angle | A36 Gr.36            | Typical     |
| 87  | M103  | N83    | N192   | 180         | Outer Girt 2  | HBrace | Single Angle | A36 Gr.36            | Typical     |
| 88  | M104  | N87    | N193   | 180         | Outer Girt 2  | HBrace | Single Angle | A36 Gr.36            | Typical     |
| 89  | M105  | N35    | N194   | 90          | Outer Girt 2  | HBrace | Single Angle | A36 Gr.36            | Typical     |
| 90  | M106  | N43    | N195   | 90          | Outer Girt 2  | HBrace | Single Angle | A36 Gr.36            | Typical     |
| 91  | M107  | N65    | N196   | 90          | Outer Girt 2  | HBrace | Single Angle | A36 Gr.36            | Typical     |
| 92  | M108  | N197   | N198   | 90          | Outer Girt 2  | HBrace | Single Angle | A36 Gr.36            | Typical     |
| 93  | M109  | N199   | N200   | 90          | Outer Girt 2  | HBrace | Single Angle | A36 Gr.36            | Typical     |
| 94  | M110  | N77    | N201   | 90          | Outer Girt 2  | HBrace | Single Angle | A36 Gr.36            | Typical     |
| 95  | M111  | N81    | N202   | 90          | Outer Girt 2  | HBrace | Single Angle | A36 Gr.36            | Typical     |
| 96  | M112  | N85    | N203   | 90          | Outer Girt 2  | HBrace | Single Angle | A36 Gr.36            | Typical     |
| 97  | M113  | N89    | N204   | 90          | Outer Girt 2  | HBrace | Single Angle | A36 Gr.36            | Typical     |
| 98  | M114  | N35    | N219   | 180         | Outer Girt 2  | HBrace | Single Angle | A36 Gr.36            | Typical     |
| 99  | M115  | N43    | N220   | 180         | Outer Girt 2  | HBrace | Single Angle | A36 Gr.36            | Typical     |
| 100 | M116  | N191A  | N192A  | 180         | FRP Angle     | Beam   | None         | FRP Structural Shape | DR1 1       |
| 101 | M116A | N65    | N221   | 180         | Outer Girt 2  | HBrace | Single Angle | A36 Gr.36            | Typical     |
| 102 | M117  | N193A  | N194A  | 180         | Big FRP Angle | Beam   | None         | FRP Structural Shape | DR1 1       |
| 103 | M117A | N197   | N223   | 180         | Outer Girt 2  | HBrace | Single Angle | A36 Gr.36            | Typical     |
| 104 | M118  | N192A  | N196A  | 180         | FRP Angle     | Beam   | None         | FRP Structural Shape | DR1 1       |
| 105 | M118A | N199   | N225   | 180         | Outer Girt 2  | HBrace | Single Angle | A36 Gr.36            | Typical     |
| 106 | M119  | N194A  | N198A  | 180         | Big FRP Angle | Beam   | None         | FRP Structural Shape | DR1 1       |
| 107 | M119A | N77    | N226   | 180         | Outer Girt 2  | HBrace | Single Angle | A36 Gr.36            | Typical     |
| 108 | M120  | N196A  | N200A  | 180         | FRP Angle     | Beam   | None         | FRP Structural Shape | DR1 1       |
| 109 | M120A | N81    | N227   | 180         | Outer Girt 2  | HBrace | Single Angle | A36 Gr.36            | Typical     |
| 110 | M121  | N198A  | N202A  | 180         | Big FRP Angle | Beam   | None         | FRP Structural Shape | DR1 1       |
| 111 | M121A | N85    | N228   | 180         | Outer Girt 2  | HBrace | Single Angle | A36 Gr.36            | Typical     |
| 112 | M122  | N200A  | N191A  | 180         | FRP Angle     | Beam   | None         | FRP Structural Shape | DR1 1       |
| 113 | M122A | N89    | N229   | 180         | Outer Girt 2  | HBrace | Single Angle | A36 Gr.36            | Typical     |
| 114 | M123  | N202A  | N193A  | 180         | Big FRP Angle | Beam   | None         | FRP Structural Shape | DR1 1       |
| 115 | M123A | N36    | N230   | 90          | Outer Girt 2  | HBrace | Single Angle | A36 Gr.36            | Typical     |
| 116 | M124  | N199A  | N200B  |             | Inner Girt 2  | Beam   | Wide Flange  | A992                 | Typical     |
| 117 | M124A | N44    | N231   | 90          | Outer Girt 2  | HBrace | Single Angle | A36 Gr.36            | Typical     |
| 118 | M125  | N201A  | N202B  |             | Inner Girt 2  | Beam   | Wide Flange  | A992                 | Typical     |
| 119 | M125A | N66    | N232   | 90          | Outer Girt 2  | HBrace | Single Angle | A36 Gr.36            | Typical     |
| 120 | M126  | N114A  | N234   | 90          | Outer Girt 2  | HBrace | Single Angle | A36 Gr.36            | Typical     |
| 121 | M127  | N204A  | N205   | 180         | Big FRP Angle | Beam   | None         | FRP Structural Shape | DR1 1       |
| 122 | M127A | N116   | N236   | 90          | Outer Girt 2  | HBrace | Single Angle | A36 Gr.36            | Typical     |
| 123 | M128  | N204A  | N131   | 90          | Big FRP Angle | Beam   | None         | FRP Structural Shape | DR1 1       |
| 124 | M128A | N78    | N237   | 90          | Outer Girt 2  | HBrace | Single Angle | A36 Gr.36            | Typical     |
| 125 | M129  | N206   | N203A  | 180         | Big FRP Angle | Beam   | None         | FRP Structural Shape | DR1 1       |
| 126 | M129A | N203A  | N114   | 180         | Big FRP Angle | Beam   | None         | FRP Structural Shape | DR1 1       |
| 127 | M129B | N82    | N238   | 90          | Outer Girt 2  | HBrace | Single Angle | A36 Gr.36            | Typical     |
| 128 | M130  | N205   | N185   | 180         | Big FRP Angle | Beam   | None         | FRP Structural Shape | DR1 1       |
| 129 | M130A | N86    | N239   | 90          | Outer Girt 2  | HBrace | Single Angle | A36 Gr.36            | Typical     |
| 130 | M131  | N206   | N196   | 90          | Big FRP Angle | Beam   | None         | FRP Structural Shape | DR1 1       |
| 131 | M131A | N90    | N240   | 90          | Outer Girt 2  | HBrace | Single Angle | A36 Gr.36            | Typical     |
| 132 | M132  | N212   | N213   | 180         | FRP Angle     | Beam   | None         | FRP Structural Shape | DR1 1       |
| 133 | M133  | N214   | N211   | 180         | FRP Angle     | Beam   | None         | FRP Structural Shape | DR1 1       |
| 134 | M134  | N212   | N133   | 90          | FRP Angle     | Beam   | None         | FRP Structural Shape | DR1 1       |
| 135 | M135  | N211   | N115   | 180         | FRP Angle     | Beam   | None         | FRP Structural Shape | DR1 1       |
| 136 | M136  | N213   | N187   | 180         | FRP Angle     | Beam   | None         | FRP Structural Shape | DR1 1       |
| 137 | M137  | N214   | N198   | 90          | FRP Angle     | Beam   | None         | FRP Structural Shape | DR1 1       |
| 138 | M138  | N211A  | N212A  | 270         | Big FRP Angle | Beam   | None         | FRP Structural Shape | DR1 1       |



Company : TEP  
Designer : PRS  
Job Number : TEP No. 309257.1151610  
Model Name : Jackson DT (BU 831885)

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### Member Primary Data (Continued)

|     | Label | I Node | J Node | Rotate(deg) | Section/Shape | Type | Design List | Material             | Design Rule |
|-----|-------|--------|--------|-------------|---------------|------|-------------|----------------------|-------------|
| 139 | M139  | N212A  | N213A  | 270         | Big FRP Angle | Beam | None        | FRP Structural Shape | DR1_1       |
| 140 | M140  | N213A  | N214A  | 270         | Big FRP Angle | Beam | None        | FRP Structural Shape | DR1_1       |
| 141 | M141  | N214A  | N211A  | 270         | Big FRP Angle | Beam | None        | FRP Structural Shape | DR1_1       |
| 142 | M142  | N215   | N216   | 180         | FRP Angle     | Beam | None        | FRP Structural Shape | DR1_1       |
| 143 | M143  | N217   | N218   |             | FRP Angle     | Beam | None        | FRP Structural Shape | DR1_1       |
| 144 | M144  | N215   | N237   | 90          | FRP Angle     | Beam | None        | FRP Structural Shape | DR1_1       |
| 145 | M145  | N218   | N226   | 180         | FRP Angle     | Beam | None        | FRP Structural Shape | DR1_1       |
| 146 | M146  | N217   | N165   | 90          | FRP Angle     | Beam | None        | FRP Structural Shape | DR1_1       |
| 147 | M147  | N216   | N154   | 180         | FRP Angle     | Beam | None        | FRP Structural Shape | DR1_1       |
| 148 | M148  | N219A  | N220A  | 270         | Big FRP Angle | Beam | None        | FRP Structural Shape | DR1_1       |
| 149 | M149  | N221A  | N222   | 270         | Big FRP Angle | Beam | None        | FRP Structural Shape | DR1_1       |
| 150 | M150  | N219A  | N238   |             | Big FRP Angle | Beam | None        | FRP Structural Shape | DR1_1       |
| 151 | M151  | N222   | N227   | 270         | Big FRP Angle | Beam | None        | FRP Structural Shape | DR1_1       |
| 152 | M152  | N221A  | N166   |             | Big FRP Angle | Beam | None        | FRP Structural Shape | DR1_1       |
| 153 | M153  | N220A  | N155   | 270         | Big FRP Angle | Beam | None        | FRP Structural Shape | DR1_1       |
| 154 | M154  | N227A  | N228A  |             | FRP Angle     | Beam | None        | FRP Structural Shape | DR1_1       |
| 155 | M155  | N229A  | N230A  |             | FRP Angle     | Beam | None        | FRP Structural Shape | DR1_1       |
| 156 | M156  | N227A  | N239   | 90          | FRP Angle     | Beam | None        | FRP Structural Shape | DR1_1       |
| 157 | M157  | N230A  | N228   | 180         | FRP Angle     | Beam | None        | FRP Structural Shape | DR1_1       |
| 158 | M158  | N229A  | N167   | 90          | FRP Angle     | Beam | None        | FRP Structural Shape | DR1_1       |
| 159 | M159  | N228A  | N156   | 180         | FRP Angle     | Beam | None        | FRP Structural Shape | DR1_1       |
| 160 | M160  | N227B  | N228B  | 180         | FRP Angle     | Beam | None        | FRP Structural Shape | DR1_1       |
| 161 | M161  | N229B  | N230B  | 180         | FRP Angle     | Beam | None        | FRP Structural Shape | DR1_1       |
| 162 | M162  | N227B  | N230B  | 90          | FRP Angle     | Beam | None        | FRP Structural Shape | DR1_1       |
| 163 | M163  | N229B  | N228B  | 90          | FRP Angle     | Beam | None        | FRP Structural Shape | DR1_1       |
| 164 | M224  | N279   | N280   |             | Cross         | None | None        | A500 Gr.42           | Typical     |
| 165 | M225  | N62    | N279   |             | RIGID         | None | None        | RIGID                | Typical     |
| 166 | M226  | N61    | N280   |             | RIGID         | None | None        | RIGID                | Typical     |
| 167 | M227  | N283A  | N282A  |             | Cross         | None | None        | A500 Gr.42           | Typical     |
| 168 | M228  | N284A  | N285A  | 90          | L11/2X11/2X3  | None | None        | A500 Gr.42           | Typical     |
| 169 | M229  | N286A  | N284A  | 90          | L11/2X11/2X3  | None | None        | A500 Gr.42           | Typical     |
| 170 | M230  | N288   | N286A  | 90          | L11/2X11/2X3  | None | None        | A500 Gr.42           | Typical     |
| 171 | M231  | N285A  | N288   | 90          | L11/2X11/2X3  | None | None        | A500 Gr.42           | Typical     |
| 172 | M232  | N291A  | N290A  | 90          | L11/2X11/2X3  | None | None        | A500 Gr.42           | Typical     |
| 173 | M233  | N294A  | N293A  | 90          | L11/2X11/2X3  | None | None        | A500 Gr.42           | Typical     |
| 174 | M234  | N298A  | N297A  | 90          | L11/2X11/2X3  | None | None        | A500 Gr.42           | Typical     |
| 175 | M235  | N302   | N301   | 90          | L11/2X11/2X3  | None | None        | A500 Gr.42           | Typical     |
| 176 | M236  | N303   | N311   |             | RIGID         | None | None        | RIGID                | Typical     |
| 177 | M237  | N300   | N310   |             | RIGID         | None | None        | RIGID                | Typical     |
| 178 | M238  | N292A  | N305   |             | RIGID         | None | None        | RIGID                | Typical     |
| 179 | M239  | N289A  | N304   |             | RIGID         | None | None        | RIGID                | Typical     |
| 180 | M240  | N295A  | N307   |             | RIGID         | None | None        | RIGID                | Typical     |
| 181 | M241  | N292B  | N306   |             | RIGID         | None | None        | RIGID                | Typical     |
| 182 | M242  | N299   | N309   |             | RIGID         | None | None        | RIGID                | Typical     |
| 183 | M243  | N296A  | N308   |             | RIGID         | None | None        | RIGID                | Typical     |
| 184 | M244  | N284A  | N313   |             | RIGID         | None | None        | RIGID                | Typical     |
| 185 | M245  | N286A  | N314   |             | RIGID         | None | None        | RIGID                | Typical     |
| 186 | M246  | N288   | N315A  |             | RIGID         | None | None        | RIGID                | Typical     |
| 187 | M247  | N285A  | N321   |             | RIGID         | None | None        | RIGID                | Typical     |
| 188 | M248  | N317A  | N319A  | 180         | FRP Angle     | Beam | None        | FRP Structural Shape | DR1_1       |
| 189 | M249  | N319B  | N320A  | 270         | FRP Angle     | Beam | None        | FRP Structural Shape | DR1_1       |
| 190 | M251  | N323A  | N324A  | 180         | FRP Angle     | Beam | None        | FRP Structural Shape | DR1_1       |
| 191 | M252  | N325A  | N326A  | 180         | FRP Angle     | Beam | None        | FRP Structural Shape | DR1_1       |
| 192 | M253  | N327A  | N328A  | 180         | FRP Angle     | Beam | None        | FRP Structural Shape | DR1_1       |
| 193 | M253A | N327B  | N328B  | 90          | FRP Angle     | Beam | None        | FRP Structural Shape | DR1_1       |



Company : TEP  
Designer : PRS  
Job Number : TEP No. 309257.1151610  
Model Name : Jackson DT (BU 831885)

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### Member Primary Data (Continued)

|     | Label | I Node | J Node | Rotate(deg) | Section/Shape | Type | Design List | Material             | Design Rule |
|-----|-------|--------|--------|-------------|---------------|------|-------------|----------------------|-------------|
| 194 | M254  | N329A  | N330A  |             | FRP Angle     | Beam | None        | FRP Structural Shape | DR1 1       |
| 195 | M255  | N331A  | N332A  | 90          | FRP Angle     | Beam | None        | FRP Structural Shape | DR1 1       |
| 196 | M256  | N333   | N334   | 90          | FRP Angle     | Beam | None        | FRP Structural Shape | DR1 1       |
| 197 | M257  | N335   | N336   | 90          | FRP Angle     | Beam | None        | FRP Structural Shape | DR1 1       |
| 198 | M258  | N319A  | N328B  | 180         | FRP Angle     | Beam | None        | FRP Structural Shape | DR1 1       |
| 199 | M259  | N320A  | N330A  | 270         | FRP Angle     | Beam | None        | FRP Structural Shape | DR1 1       |
| 200 | M260  | N319A  | N320A  | 90          | FRP Angle     | Beam | None        | FRP Structural Shape | DR1 1       |
| 201 | M261  | N328B  | N330A  |             | FRP Angle     | Beam | None        | FRP Structural Shape | DR1 1       |
| 202 | M262  | N337   | N338   | 180         | FRP Angle     | Beam | None        | FRP Structural Shape | DR1 1       |
| 203 | M263  | N339   | N340   | 270         | FRP Angle     | Beam | None        | FRP Structural Shape | DR1 1       |
| 204 | M264  | N341   | N342   | 180         | FRP Angle     | Beam | None        | FRP Structural Shape | DR1 1       |
| 205 | M265  | N343   | N344   | 180         | FRP Angle     | Beam | None        | FRP Structural Shape | DR1 1       |
| 206 | M266  | N345   | N346   | 180         | FRP Angle     | Beam | None        | FRP Structural Shape | DR1 1       |
| 207 | M267  | N347   | N348   | 90          | FRP Angle     | Beam | None        | FRP Structural Shape | DR1 1       |
| 208 | M268  | N349   | N350   |             | FRP Angle     | Beam | None        | FRP Structural Shape | DR1 1       |
| 209 | M269  | N351   | N352   | 90          | FRP Angle     | Beam | None        | FRP Structural Shape | DR1 1       |
| 210 | M270  | N353   | N354   | 90          | FRP Angle     | Beam | None        | FRP Structural Shape | DR1 1       |
| 211 | M271  | N355   | N356   | 90          | FRP Angle     | Beam | None        | FRP Structural Shape | DR1 1       |
| 212 | M272  | N338   | N348   | 180         | FRP Angle     | Beam | None        | FRP Structural Shape | DR1 1       |
| 213 | M273  | N340   | N350   | 270         | FRP Angle     | Beam | None        | FRP Structural Shape | DR1 1       |
| 214 | M274  | N338   | N340   | 180         | FRP Angle     | Beam | None        | FRP Structural Shape | DR1 1       |
| 215 | M275  | N348   | N350   | 180         | FRP Angle     | Beam | None        | FRP Structural Shape | DR1 1       |
| 216 | M276  | N357   | N358   | 180         | FRP Angle     | Beam | None        | FRP Structural Shape | DR1 1       |
| 217 | M277  | N359   | N360   | 180         | FRP Angle     | Beam | None        | FRP Structural Shape | DR1 1       |
| 218 | M278  | N361   | N362   | 180         | FRP Angle     | Beam | None        | FRP Structural Shape | DR1 1       |
| 219 | M279  | N363   | N364   | 180         | FRP Angle     | Beam | None        | FRP Structural Shape | DR1 1       |
| 220 | M280  | N365   | N366   | 270         | FRP Angle     | Beam | None        | FRP Structural Shape | DR1 1       |
| 221 | M281  | N367   | N368   | 90          | FRP Angle     | Beam | None        | FRP Structural Shape | DR1 1       |
| 222 | M282  | N369   | N370   | 90          | FRP Angle     | Beam | None        | FRP Structural Shape | DR1 1       |
| 223 | M283  | N371   | N372   | 90          | FRP Angle     | Beam | None        | FRP Structural Shape | DR1 1       |
| 224 | M284  | N373   | N374   | 180         | FRP Angle     | Beam | None        | FRP Structural Shape | DR1 1       |
| 225 | M285  | N375   | N376   |             | FRP Angle     | Beam | None        | FRP Structural Shape | DR1 1       |
| 226 | M286  | N368   | N358   | 90          | FRP Angle     | Beam | None        | FRP Structural Shape | DR1 1       |
| 227 | M287  | N376   | N366   |             | FRP Angle     | Beam | None        | FRP Structural Shape | DR1 1       |
| 228 | M288  | N358   | N366   |             | FRP Angle     | Beam | None        | FRP Structural Shape | DR1 1       |
| 229 | M289  | N368   | N376   | 270         | FRP Angle     | Beam | None        | FRP Structural Shape | DR1 1       |
| 230 | M290  | N377   | N378   | 180         | FRP Angle     | Beam | None        | FRP Structural Shape | DR1 1       |
| 231 | M291  | N379   | N380   | 180         | FRP Angle     | Beam | None        | FRP Structural Shape | DR1 1       |
| 232 | M292  | N381   | N382   | 180         | FRP Angle     | Beam | None        | FRP Structural Shape | DR1 1       |
| 233 | M293  | N383   | N384   | 180         | FRP Angle     | Beam | None        | FRP Structural Shape | DR1 1       |
| 234 | M294  | N385   | N386   | 270         | FRP Angle     | Beam | None        | FRP Structural Shape | DR1 1       |
| 235 | M295  | N387   | N388   | 90          | FRP Angle     | Beam | None        | FRP Structural Shape | DR1 1       |
| 236 | M296  | N389   | N390   | 90          | FRP Angle     | Beam | None        | FRP Structural Shape | DR1 1       |
| 237 | M297  | N391   | N392   | 90          | FRP Angle     | Beam | None        | FRP Structural Shape | DR1 1       |
| 238 | M298  | N393   | N394   | 90          | FRP Angle     | Beam | None        | FRP Structural Shape | DR1 1       |
| 239 | M299  | N395   | N396   |             | FRP Angle     | Beam | None        | FRP Structural Shape | DR1 1       |
| 240 | M300  | N388   | N378   | 90          | FRP Angle     | Beam | None        | FRP Structural Shape | DR1 1       |
| 241 | M301  | N396   | N386   |             | FRP Angle     | Beam | None        | FRP Structural Shape | DR1 1       |
| 242 | M302  | N378   | N386   | 180         | FRP Angle     | Beam | None        | FRP Structural Shape | DR1 1       |
| 243 | M303  | N388   | N396   | 90          | FRP Angle     | Beam | None        | FRP Structural Shape | DR1 1       |
| 244 | M304  | N399   | N400   |             | UNI           | Beam | None        | A570 Gr.33           | Typical     |
| 245 | M305  | N401   | N397   |             | RIGID         | None | None        | RIGID                | Typical     |
| 246 | M306  | N402   | N398   |             | RIGID         | None | None        | RIGID                | Typical     |
| 247 | M307  | N405   | N406   |             | UNI           | Beam | None        | A570 Gr.33           | Typical     |
| 248 | M308  | N407   | N403   |             | RIGID         | None | None        | RIGID                | Typical     |



Company : TEP  
Designer : PRS  
Job Number : TEP No. 309257.1151610  
Model Name : Jackson DT (BU 831885)

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### Member Primary Data (Continued)

|     | Label | I Node | J Node | Rotate(deg) | Section/Shape | Type | Design List | Material             | Design Rule |
|-----|-------|--------|--------|-------------|---------------|------|-------------|----------------------|-------------|
| 249 | M309  | N408   | N404   |             | RIGID         | None | None        | RIGID                | Typical     |
| 250 | M311  | N413   | N409   |             | RIGID         | None | None        | RIGID                | Typical     |
| 251 | M312  | N414   | N410   |             | RIGID         | None | None        | RIGID                | Typical     |
| 252 | M314  | N419   | N415   |             | RIGID         | None | None        | RIGID                | Typical     |
| 253 | M315  | N420   | N416   |             | RIGID         | None | None        | RIGID                | Typical     |
| 254 | M317  | N425   | N421   |             | RIGID         | None | None        | RIGID                | Typical     |
| 255 | M318  | N426   | N422   |             | RIGID         | None | None        | RIGID                | Typical     |
| 256 | M319  | N429   | N430   |             | UNI           | Beam | None        | A570 Gr.33           | Typical     |
| 257 | M320  | N431   | N427   |             | RIGID         | None | None        | RIGID                | Typical     |
| 258 | M321  | N432   | N428   |             | RIGID         | None | None        | RIGID                | Typical     |
| 259 | M322  | N435   | N436   |             | UNI           | Beam | None        | A570 Gr.33           | Typical     |
| 260 | M323  | N437   | N433   |             | RIGID         | None | None        | RIGID                | Typical     |
| 261 | M324  | N438   | N434   |             | RIGID         | None | None        | RIGID                | Typical     |
| 262 | M326  | N443   | N439   |             | RIGID         | None | None        | RIGID                | Typical     |
| 263 | M327  | N444   | N440   |             | RIGID         | None | None        | RIGID                | Typical     |
| 264 | M329  | N449   | N445   |             | RIGID         | None | None        | RIGID                | Typical     |
| 265 | M330  | N450   | N446   |             | RIGID         | None | None        | RIGID                | Typical     |
| 266 | M332  | N455   | N451   |             | RIGID         | None | None        | RIGID                | Typical     |
| 267 | M333  | N456   | N452   |             | RIGID         | None | None        | RIGID                | Typical     |
| 268 | M334  | N459   | N460   |             | UNI           | Beam | None        | A570 Gr.33           | Typical     |
| 269 | M335  | N461   | N457   |             | RIGID         | None | None        | RIGID                | Typical     |
| 270 | M336  | N462   | N458   |             | RIGID         | None | None        | RIGID                | Typical     |
| 271 | M337  | N465   | N466   |             | UNI           | Beam | None        | A570 Gr.33           | Typical     |
| 272 | M338  | N467   | N463   |             | RIGID         | None | None        | RIGID                | Typical     |
| 273 | M339  | N468   | N464   |             | RIGID         | None | None        | RIGID                | Typical     |
| 274 | M341  | N473   | N469   |             | RIGID         | None | None        | RIGID                | Typical     |
| 275 | M342  | N474   | N470   |             | RIGID         | None | None        | RIGID                | Typical     |
| 276 | M344  | N479   | N475   |             | RIGID         | None | None        | RIGID                | Typical     |
| 277 | M345  | N480   | N476   |             | RIGID         | None | None        | RIGID                | Typical     |
| 278 | M347  | N485   | N481   |             | RIGID         | None | None        | RIGID                | Typical     |
| 279 | M348  | N486   | N482   |             | RIGID         | None | None        | RIGID                | Typical     |
| 280 | M349  | N489   | N490   |             | UNI           | Beam | None        | A570 Gr.33           | Typical     |
| 281 | M350  | N491   | N487   |             | RIGID         | None | None        | RIGID                | Typical     |
| 282 | M351  | N492   | N488   |             | RIGID         | None | None        | RIGID                | Typical     |
| 283 | M352  | N495   | N496   |             | UNI           | Beam | None        | A570 Gr.33           | Typical     |
| 284 | M353  | N497   | N493   |             | RIGID         | None | None        | RIGID                | Typical     |
| 285 | M354  | N498   | N494   |             | RIGID         | None | None        | RIGID                | Typical     |
| 286 | M356  | N503   | N499   |             | RIGID         | None | None        | RIGID                | Typical     |
| 287 | M357  | N504   | N500   |             | RIGID         | None | None        | RIGID                | Typical     |
| 288 | M359  | N509   | N505   |             | RIGID         | None | None        | RIGID                | Typical     |
| 289 | M360  | N510   | N506   |             | RIGID         | None | None        | RIGID                | Typical     |
| 290 | M362  | N515   | N511   |             | RIGID         | None | None        | RIGID                | Typical     |
| 291 | M362A | N38    | N247   |             | Outrigger     | Beam | None        | FRP Structural Shape | DR1 2       |
| 292 | M363  | N516   | N512   |             | RIGID         | None | None        | RIGID                | Typical     |
| 293 | M368  | N37    | N248   |             | Outrigger     | Beam | None        | FRP Structural Shape | DR1 2       |
| 294 | M372  | N550   | N549   |             | Cladding      | Beam | None        | FRP Structural Shape | DR1 2       |
| 295 | M376  | N553A  | N554   |             | Cladding      | Beam | None        | FRP Structural Shape | DR1 2       |
| 296 | M376A | N37    | N281   |             | Outrigger     | Beam | None        | FRP Structural Shape | DR1 2       |
| 297 | M377  | N557   | N562   |             | Cladding      | Beam | None        | FRP Structural Shape | DR1 2       |
| 298 | M378  | N558   | N563   |             | Cladding      | Beam | None        | FRP Structural Shape | DR1 2       |
| 299 | M379  | N559   | N564   |             | Cladding      | Beam | None        | FRP Structural Shape | DR1 2       |
| 300 | M380  | N560   | N565   |             | Cladding      | Beam | None        | FRP Structural Shape | DR1 2       |
| 301 | M381  | N561   | N566   |             | Cladding      | Beam | None        | FRP Structural Shape | DR1 2       |
| 302 | M382  | N556   | N555   |             | Cladding      | Beam | None        | FRP Structural Shape | DR1 2       |
| 303 | M382A | N39    | N282   |             | Outrigger     | Beam | None        | FRP Structural Shape | DR1 2       |



Company : TEP  
Designer : PRS  
Job Number : TEP No. 309257.1151610  
Model Name : Jackson DT (BU 831885)

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**Member Primary Data (Continued)**

|     | Label | I Node | J Node | Rotate(deg) | Section/Shape | Type | Design List | Material             | Design Rule |
|-----|-------|--------|--------|-------------|---------------|------|-------------|----------------------|-------------|
| 304 | M390A | N39    | N315   |             | Outrigger     | Beam | None        | FRP Structural Shape | DR1 2       |
| 305 | M396A | N40    | N316   |             | Outrigger     | Beam | None        | FRP Structural Shape | DR1 2       |
| 306 | MP-1  | N539   | N540   |             | Mount Pipe    | None | None        | A53-B-35             | Typical     |
| 307 | MP-2  | N423   | N424   |             | Mount Pipe    | None | None        | A53-B-35             | Typical     |
| 308 | MP-3  | N411   | N412   |             | Mount Pipe    | None | None        | A53-B-35             | Typical     |
| 309 | MP-4  | N417   | N418   |             | Mount Pipe    | None | None        | A53-B-35             | Typical     |
| 310 | MP-5  | N535   | N536   |             | Mount Pipe    | None | None        | A53-B-35             | Typical     |
| 311 | MP-6  | N547   | N548   |             | Mount Pipe    | None | None        | A53-B-35             | Typical     |
| 312 | MP-7  | N453   | N454   |             | Mount Pipe    | None | None        | A53-B-35             | Typical     |
| 313 | MP-8  | N441   | N442   |             | Mount Pipe    | None | None        | A53-B-35             | Typical     |
| 314 | MP-9  | N447   | N448   |             | Mount Pipe    | None | None        | A53-B-35             | Typical     |
| 315 | MP-10 | N543   | N544   |             | Mount Pipe    | None | None        | A53-B-35             | Typical     |
| 316 | MP-11 | N523   | N524   |             | Mount Pipe    | None | None        | A53-B-35             | Typical     |
| 317 | MP-12 | N483   | N484   |             | Mount Pipe    | None | None        | A53-B-35             | Typical     |
| 318 | MP-13 | N471   | N472   |             | Mount Pipe    | None | None        | A53-B-35             | Typical     |
| 319 | MP-14 | N477   | N478   |             | Mount Pipe    | None | None        | A53-B-35             | Typical     |
| 320 | MP-15 | N519   | N520   |             | Mount Pipe    | None | None        | A53-B-35             | Typical     |
| 321 | MP-16 | N531   | N532   |             | Mount Pipe    | None | None        | A53-B-35             | Typical     |
| 322 | MP-17 | N513   | N514   |             | Mount Pipe    | None | None        | A53-B-35             | Typical     |
| 323 | MP-18 | N501   | N502   |             | Mount Pipe    | None | None        | A53-B-35             | Typical     |
| 324 | MP-19 | N507   | N508   |             | Mount Pipe    | None | None        | A53-B-35             | Typical     |
| 325 | MP-20 | N527   | N528   |             | Mount Pipe    | None | None        | A53-B-35             | Typical     |
| 326 | M344A | N46    | N249   |             | Outrigger     | Beam | None        | FRP Structural Shape | DR1 2       |
| 327 | M345A | N14    | N250   |             | Outrigger     | Beam | None        | FRP Structural Shape | DR1 2       |
| 328 | M346  | N68    | N251   |             | Outrigger     | Beam | None        | FRP Structural Shape | DR1 2       |
| 329 | M347A | N72    | N252   |             | Outrigger     | Beam | None        | FRP Structural Shape | DR1 2       |
| 330 | M348A | N98A   | N255   |             | Outrigger     | Beam | None        | FRP Structural Shape | DR1 2       |
| 331 | M349A | N45    | N256   |             | Outrigger     | Beam | None        | FRP Structural Shape | DR1 2       |
| 332 | M350A | N13    | N257   |             | Outrigger     | Beam | None        | FRP Structural Shape | DR1 2       |
| 333 | M351A | N67    | N258   |             | Outrigger     | Beam | None        | FRP Structural Shape | DR1 2       |
| 334 | M352A | N71    | N259   |             | Outrigger     | Beam | None        | FRP Structural Shape | DR1 2       |
| 335 | M353A | N58    | N56    |             | Outrigger     | Beam | None        | FRP Structural Shape | DR1 2       |
| 336 | M354A | N97B   | N260   |             | Outrigger     | Beam | None        | FRP Structural Shape | DR1 2       |
| 337 | M355  | N57    | N55    |             | Outrigger     | Beam | None        | FRP Structural Shape | DR1 2       |
| 338 | M356A | N549   | N551   |             | Cladding      | Beam | None        | FRP Structural Shape | DR1 2       |
| 339 | M357A | N554   | N568   |             | Cladding      | Beam | None        | FRP Structural Shape | DR1 2       |
| 340 | M358  | N562   | N576   |             | Cladding      | Beam | None        | FRP Structural Shape | DR1 2       |
| 341 | M359A | N563   | N577   |             | Cladding      | Beam | None        | FRP Structural Shape | DR1 2       |
| 342 | M360A | N564   | N578   |             | Cladding      | Beam | None        | FRP Structural Shape | DR1 2       |
| 343 | M361  | N565   | N579   |             | Cladding      | Beam | None        | FRP Structural Shape | DR1 2       |
| 344 | M362B | N566   | N580   |             | Cladding      | Beam | None        | FRP Structural Shape | DR1 2       |
| 345 | M363A | N555   | N569   |             | Cladding      | Beam | None        | FRP Structural Shape | DR1 2       |
| 346 | M364  | N45    | N283   |             | Outrigger     | Beam | None        | FRP Structural Shape | DR1 2       |
| 347 | M365  | N13    | N284   |             | Outrigger     | Beam | None        | FRP Structural Shape | DR1 2       |
| 348 | M366  | N67    | N285   |             | Outrigger     | Beam | None        | FRP Structural Shape | DR1 2       |
| 349 | M367  | N71    | N286   |             | Outrigger     | Beam | None        | FRP Structural Shape | DR1 2       |
| 350 | M368A | N97B   | N289   |             | Outrigger     | Beam | None        | FRP Structural Shape | DR1 2       |
| 351 | M369  | N47    | N290   |             | Outrigger     | Beam | None        | FRP Structural Shape | DR1 2       |
| 352 | M370  | N15    | N291   |             | Outrigger     | Beam | None        | FRP Structural Shape | DR1 2       |
| 353 | M371  | N69    | N292   |             | Outrigger     | Beam | None        | FRP Structural Shape | DR1 2       |
| 354 | M372A | N73    | N293   |             | Outrigger     | Beam | None        | FRP Structural Shape | DR1 2       |
| 355 | M373  | N57    | N51    |             | Outrigger     | Beam | None        | FRP Structural Shape | DR1 2       |
| 356 | M374  | N99A   | N294   |             | Outrigger     | Beam | None        | FRP Structural Shape | DR1 2       |
| 357 | M375  | N59    | N52    |             | Outrigger     | Beam | None        | FRP Structural Shape | DR1 2       |
| 358 | M376B | N551   | N553   |             | Cladding      | Beam | None        | FRP Structural Shape | DR1 2       |



Company : TEP  
Designer : PRS  
Job Number : TEP No. 309257.1151610  
Model Name : Jackson DT (BU 831885)

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### Member Primary Data (Continued)

|     | Label | I Node | J Node | Rotate(deg) | Section/Shape   | Type | Design List | Material             | Design Rule |
|-----|-------|--------|--------|-------------|-----------------|------|-------------|----------------------|-------------|
| 359 | M377A | N568   | N582   |             | Cladding        | Beam | None        | FRP Structural Shape | DR1 2       |
| 360 | M378A | N576   | N590   |             | Cladding        | Beam | None        | FRP Structural Shape | DR1 2       |
| 361 | M379A | N577   | N591   |             | Cladding        | Beam | None        | FRP Structural Shape | DR1 2       |
| 362 | M380A | N578   | N592   |             | Cladding        | Beam | None        | FRP Structural Shape | DR1 2       |
| 363 | M381A | N579   | N593   |             | Cladding        | Beam | None        | FRP Structural Shape | DR1 2       |
| 364 | M382B | N580   | N594   |             | Cladding        | Beam | None        | FRP Structural Shape | DR1 2       |
| 365 | M383  | N569   | N583   |             | Cladding        | Beam | None        | FRP Structural Shape | DR1 2       |
| 366 | M384  | N47    | N317   |             | Outrigger       | Beam | None        | FRP Structural Shape | DR1 2       |
| 367 | M385  | N15    | N318   |             | Outrigger       | Beam | None        | FRP Structural Shape | DR1 2       |
| 368 | M386  | N69    | N319   |             | Outrigger       | Beam | None        | FRP Structural Shape | DR1 2       |
| 369 | M387  | N73    | N320   |             | Outrigger       | Beam | None        | FRP Structural Shape | DR1 2       |
| 370 | M388  | N99A   | N323   |             | Outrigger       | Beam | None        | FRP Structural Shape | DR1 2       |
| 371 | M389  | N48    | N324   |             | Outrigger       | Beam | None        | FRP Structural Shape | DR1 2       |
| 372 | M390  | N16    | N325   |             | Outrigger       | Beam | None        | FRP Structural Shape | DR1 2       |
| 373 | M391  | N70    | N326   |             | Outrigger       | Beam | None        | FRP Structural Shape | DR1 2       |
| 374 | M392  | N74    | N327   |             | Outrigger       | Beam | None        | FRP Structural Shape | DR1 2       |
| 375 | M393  | N59    | N53    |             | Outrigger       | Beam | None        | FRP Structural Shape | DR1 2       |
| 376 | M394  | N100   | N328   |             | Outrigger       | Beam | None        | FRP Structural Shape | DR1 2       |
| 377 | M395  | N60    | N54    |             | Outrigger       | Beam | None        | FRP Structural Shape | DR1 2       |
| 378 | M396  | N553   | N550   |             | Cladding        | Beam | None        | FRP Structural Shape | DR1 2       |
| 379 | M397  | N582   | N553A  |             | Cladding        | Beam | None        | FRP Structural Shape | DR1 2       |
| 380 | M398  | N590   | N557   |             | Cladding        | Beam | None        | FRP Structural Shape | DR1 2       |
| 381 | M399  | N591   | N558   |             | Cladding        | Beam | None        | FRP Structural Shape | DR1 2       |
| 382 | M400  | N592   | N559   |             | Cladding        | Beam | None        | FRP Structural Shape | DR1 2       |
| 383 | M401  | N593   | N560   |             | Cladding        | Beam | None        | FRP Structural Shape | DR1 2       |
| 384 | M402  | N594   | N561   |             | Cladding        | Beam | None        | FRP Structural Shape | DR1 2       |
| 385 | M403  | N583   | N556   |             | Cladding        | Beam | None        | FRP Structural Shape | DR1 2       |
| 386 | M386A | N12    | N261   |             | Outer Tower Leg | Beam | None        | FRP Structural Shape | DR1 2       |
| 387 | M387A | N261   | N262   |             | Outer Tower Leg | Beam | None        | FRP Structural Shape | DR1 2       |
| 388 | M388A | N262   | N56    |             | Outer Tower Leg | Beam | None        | FRP Structural Shape | DR1 2       |
| 389 | M389A | N11    | N263   |             | Outer Tower Leg | Beam | None        | FRP Structural Shape | DR1 2       |
| 390 | M390B | N263   | N264   |             | Outer Tower Leg | Beam | None        | FRP Structural Shape | DR1 2       |
| 391 | M391A | N264   | N55    |             | Outer Tower Leg | Beam | None        | FRP Structural Shape | DR1 2       |
| 392 | M392A | N7     | N295   |             | Outer Tower Leg | Beam | None        | FRP Structural Shape | DR1 2       |
| 393 | M393A | N295   | N296   |             | Outer Tower Leg | Beam | None        | FRP Structural Shape | DR1 2       |
| 394 | M394A | N296   | N51    |             | Outer Tower Leg | Beam | None        | FRP Structural Shape | DR1 2       |
| 395 | M395A | N8     | N297   |             | Outer Tower Leg | Beam | None        | FRP Structural Shape | DR1 2       |
| 396 | M396B | N297   | N298   |             | Outer Tower Leg | Beam | None        | FRP Structural Shape | DR1 2       |
| 397 | M397A | N298   | N52    |             | Outer Tower Leg | Beam | None        | FRP Structural Shape | DR1 2       |
| 398 | M398A | N9     | N329   |             | Outer Tower Leg | Beam | None        | FRP Structural Shape | DR1 2       |
| 399 | M399A | N329   | N330   |             | Outer Tower Leg | Beam | None        | FRP Structural Shape | DR1 2       |
| 400 | M400A | N330   | N53    |             | Outer Tower Leg | Beam | None        | FRP Structural Shape | DR1 2       |
| 401 | M401A | N10    | N331   |             | Outer Tower Leg | Beam | None        | FRP Structural Shape | DR1 2       |
| 402 | M402A | N331   | N332   |             | Outer Tower Leg | Beam | None        | FRP Structural Shape | DR1 2       |
| 403 | M403A | N332   | N54    |             | Outer Tower Leg | Beam | None        | FRP Structural Shape | DR1 2       |
| 404 | M404  | N588   | N600   |             | RIGID           | None | None        | RIGID                | Typical     |
| 405 | M405  | N595   | N601   |             | RIGID           | None | None        | RIGID                | Typical     |
| 406 | M406  | N595   | N605   |             | RIGID           | None | None        | RIGID                | Typical     |
| 407 | M407  | N589   | N604   |             | RIGID           | None | None        | RIGID                | Typical     |
| 408 | M408  | N589   | N609   |             | RIGID           | None | None        | RIGID                | Typical     |
| 409 | M409  | N587   | N608   |             | RIGID           | None | None        | RIGID                | Typical     |
| 410 | M410  | N597   | N602   |             | RIGID           | None | None        | RIGID                | Typical     |
| 411 | M411  | N599   | N603   |             | RIGID           | None | None        | RIGID                | Typical     |
| 412 | M412  | N599   | N607   |             | RIGID           | None | None        | RIGID                | Typical     |
| 413 | M413  | N598   | N606   |             | RIGID           | None | None        | RIGID                | Typical     |



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Designer : PRS  
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#### Member Primary Data (Continued)

|     | Label | I Node | J Node | Rotate(deg) | Section/Shape | Type | Design List | Material | Design Rule |
|-----|-------|--------|--------|-------------|---------------|------|-------------|----------|-------------|
| 414 | M414  | N598   | N611   |             | RIGID         | None | None        | RIGID    | Typical     |
| 415 | M415  | N596   | N610   |             | RIGID         | None | None        | RIGID    | Typical     |
| 416 | MP-21 | N618   | N612   |             | Mount Pipe    | None | None        | A53-B-35 | Typical     |
| 417 | MP-22 | N619   | N613   |             | Mount Pipe    | None | None        | A53-B-35 | Typical     |
| 418 | MP-23 | N621   | N615   |             | Mount Pipe    | None | None        | A53-B-35 | Typical     |
| 419 | MP-24 | N620   | N614   |             | Mount Pipe    | None | None        | A53-B-35 | Typical     |
| 420 | MP-25 | N623   | N617   |             | Mount Pipe    | None | None        | A53-B-35 | Typical     |
| 421 | MP-26 | N622   | N616   |             | Mount Pipe    | None | None        | A53-B-35 | Typical     |

#### Member Advanced Data

|    | Label | I Release | J Release | Col-Wall Vert Release | Physical | Deflection Ratio Options | Seismic DR |
|----|-------|-----------|-----------|-----------------------|----------|--------------------------|------------|
| 1  | M1    |           |           |                       | Yes      | ** NA **                 | None       |
| 2  | M2    |           |           |                       | Yes      | ** NA **                 | None       |
| 3  | M3    |           |           |                       | Yes      | ** NA **                 | None       |
| 4  | M4    |           |           |                       | Yes      | ** NA **                 | None       |
| 5  | M5    |           |           |                       | Yes      | ** NA **                 | None       |
| 6  | M6    |           |           |                       | Yes      | ** NA **                 | None       |
| 7  | M7    |           |           |                       | Yes      | ** NA **                 | None       |
| 8  | M8    |           |           |                       | Yes      | ** NA **                 | None       |
| 9  | M9    |           |           |                       | Yes      | N/A                      | None       |
| 10 | M10   |           |           |                       | Yes      | N/A                      | None       |
| 11 | M11   |           |           |                       | Yes      | N/A                      | None       |
| 12 | M12   |           |           |                       | Yes      | N/A                      | None       |
| 13 | M13   |           |           |                       | Yes      | N/A                      | None       |
| 14 | M14   |           |           |                       | Yes      | N/A                      | None       |
| 15 | M15   |           |           |                       | Yes      | N/A                      | None       |
| 16 | M16   |           |           |                       | Yes      | N/A                      | None       |
| 17 | M17   |           |           |                       | Yes      | N/A                      | None       |
| 18 | M18   |           |           |                       | Yes      | N/A                      | None       |
| 19 | M19   |           |           |                       | Yes      | N/A                      | None       |
| 20 | M20   |           |           |                       | Yes      | N/A                      | None       |
| 21 | M21   | BenPIN    | BenPIN    |                       | Yes      | ** NA **                 | None       |
| 22 | M22   | BenPIN    | BenPIN    |                       | Yes      | ** NA **                 | None       |
| 23 | M23   | BenPIN    | BenPIN    |                       | Yes      | ** NA **                 | None       |
| 24 | M26   |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 25 | M28   |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 26 | M30   |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 27 | M30A  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 28 | M31   |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 29 | M32   |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 30 | M33   |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 31 | M34   |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 32 | M35   |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 33 | M36   |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 34 | M37   |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 35 | M38   |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 36 | M38A  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 37 | M38B  |           |           |                       | Yes      | N/A                      | None       |
| 38 | M39   |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 39 | M39A  |           |           |                       | Yes      | N/A                      | None       |
| 40 | M40   |           |           |                       | Yes      | N/A                      | None       |
| 41 | M41   |           |           |                       | Yes      | N/A                      | None       |
| 42 | M42   |           |           |                       | Yes      | N/A                      | None       |
| 43 | M43   |           |           |                       | Yes      | N/A                      | None       |
| 44 | M44   |           | BenPIN    |                       | Yes      | ** NA **                 | None       |



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**Member Advanced Data (Continued)**

|    | Label | I Release | J Release | Col-Wall Vert Release | Physical | Deflection Ratio Options | Seismic DR |
|----|-------|-----------|-----------|-----------------------|----------|--------------------------|------------|
| 45 | M45   |           | BenPIN    |                       | Yes      | ** NA **                 | None       |
| 46 | M46   |           | BenPIN    |                       | Yes      | ** NA **                 | None       |
| 47 | M47   |           | BenPIN    |                       | Yes      | ** NA **                 | None       |
| 48 | M48   |           | BenPIN    |                       | Yes      | ** NA **                 | None       |
| 49 | M49   |           | BenPIN    |                       | Yes      | ** NA **                 | None       |
| 50 | M50   |           | BenPIN    |                       | Yes      | ** NA **                 | None       |
| 51 | M51   |           | BenPIN    |                       | Yes      | ** NA **                 | None       |
| 52 | M52   |           | BenPIN    |                       | Yes      | ** NA **                 | None       |
| 53 | M53   |           | BenPIN    |                       | Yes      | ** NA **                 | None       |
| 54 | M54   |           | BenPIN    |                       | Yes      | ** NA **                 | None       |
| 55 | M55   |           | BenPIN    |                       | Yes      | ** NA **                 | None       |
| 56 | M56   |           | BenPIN    |                       | Yes      | ** NA **                 | None       |
| 57 | M57   |           | BenPIN    |                       | Yes      | ** NA **                 | None       |
| 58 | M58   |           | BenPIN    |                       | Yes      | ** NA **                 | None       |
| 59 | M59   |           | BenPIN    |                       | Yes      | ** NA **                 | None       |
| 60 | M60   |           | BenPIN    |                       | Yes      | ** NA **                 | None       |
| 61 | M61   |           | BenPIN    |                       | Yes      | ** NA **                 | None       |
| 62 | M78   |           | BenPIN    |                       | Yes      | ** NA **                 | None       |
| 63 | M79   |           | BenPIN    |                       | Yes      | ** NA **                 | None       |
| 64 | M80   |           | BenPIN    |                       | Yes      | ** NA **                 | None       |
| 65 | M81   |           | BenPIN    |                       | Yes      | ** NA **                 | None       |
| 66 | M82   |           | BenPIN    |                       | Yes      | ** NA **                 | None       |
| 67 | M83   |           | BenPIN    |                       | Yes      | ** NA **                 | None       |
| 68 | M84   |           | BenPIN    |                       | Yes      | ** NA **                 | None       |
| 69 | M85   |           | BenPIN    |                       | Yes      | ** NA **                 | None       |
| 70 | M86   |           | BenPIN    |                       | Yes      | ** NA **                 | None       |
| 71 | M87   |           | BenPIN    |                       | Yes      | ** NA **                 | None       |
| 72 | M88   |           | BenPIN    |                       | Yes      | ** NA **                 | None       |
| 73 | M89   |           | BenPIN    |                       | Yes      | ** NA **                 | None       |
| 74 | M90   |           | BenPIN    |                       | Yes      | ** NA **                 | None       |
| 75 | M91   |           | BenPIN    |                       | Yes      | ** NA **                 | None       |
| 76 | M92   |           | BenPIN    |                       | Yes      | ** NA **                 | None       |
| 77 | M93   |           | BenPIN    |                       | Yes      | ** NA **                 | None       |
| 78 | M94   |           | BenPIN    |                       | Yes      | ** NA **                 | None       |
| 79 | M95   |           | BenPIN    |                       | Yes      | ** NA **                 | None       |
| 80 | M96   |           | BenPIN    |                       | Yes      | ** NA **                 | None       |
| 81 | M97   |           | BenPIN    |                       | Yes      | ** NA **                 | None       |
| 82 | M98   |           | BenPIN    |                       | Yes      | ** NA **                 | None       |
| 83 | M99   |           | BenPIN    |                       | Yes      | ** NA **                 | None       |
| 84 | M100  |           | BenPIN    |                       | Yes      | ** NA **                 | None       |
| 85 | M101  |           | BenPIN    |                       | Yes      | ** NA **                 | None       |
| 86 | M102  |           | BenPIN    |                       | Yes      | ** NA **                 | None       |
| 87 | M103  |           | BenPIN    |                       | Yes      | ** NA **                 | None       |
| 88 | M104  |           | BenPIN    |                       | Yes      | ** NA **                 | None       |
| 89 | M105  |           | BenPIN    |                       | Yes      | ** NA **                 | None       |
| 90 | M106  |           | BenPIN    |                       | Yes      | ** NA **                 | None       |
| 91 | M107  |           | BenPIN    |                       | Yes      | ** NA **                 | None       |
| 92 | M108  |           | BenPIN    |                       | Yes      | ** NA **                 | None       |
| 93 | M109  |           | BenPIN    |                       | Yes      | ** NA **                 | None       |
| 94 | M110  |           | BenPIN    |                       | Yes      | ** NA **                 | None       |
| 95 | M111  |           | BenPIN    |                       | Yes      | ** NA **                 | None       |
| 96 | M112  |           | BenPIN    |                       | Yes      | ** NA **                 | None       |
| 97 | M113  |           | BenPIN    |                       | Yes      | ** NA **                 | None       |
| 98 | M114  |           | BenPIN    |                       | Yes      | ** NA **                 | None       |
| 99 | M115  |           | BenPIN    |                       | Yes      | ** NA **                 | None       |



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**Member Advanced Data (Continued)**

|     | Label | I Release | J Release | Col-Wall Vert Release | Physical | Deflection Ratio Options | Seismic DR |
|-----|-------|-----------|-----------|-----------------------|----------|--------------------------|------------|
| 100 | M116  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 101 | M116A |           | BenPIN    |                       | Yes      | ** NA **                 | None       |
| 102 | M117  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 103 | M117A |           | BenPIN    |                       | Yes      | ** NA **                 | None       |
| 104 | M118  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 105 | M118A |           | BenPIN    |                       | Yes      | ** NA **                 | None       |
| 106 | M119  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 107 | M119A |           | BenPIN    |                       | Yes      | ** NA **                 | None       |
| 108 | M120  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 109 | M120A |           | BenPIN    |                       | Yes      | ** NA **                 | None       |
| 110 | M121  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 111 | M121A |           | BenPIN    |                       | Yes      | ** NA **                 | None       |
| 112 | M122  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 113 | M122A |           | BenPIN    |                       | Yes      | ** NA **                 | None       |
| 114 | M123  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 115 | M123A |           | BenPIN    |                       | Yes      | ** NA **                 | None       |
| 116 | M124  | BenPIN    | BenPIN    |                       | Yes      | N/A                      | None       |
| 117 | M124A |           | BenPIN    |                       | Yes      | ** NA **                 | None       |
| 118 | M125  | BenPIN    | BenPIN    |                       | Yes      | N/A                      | None       |
| 119 | M125A |           | BenPIN    |                       | Yes      | ** NA **                 | None       |
| 120 | M126  |           | BenPIN    |                       | Yes      | ** NA **                 | None       |
| 121 | M127  | BenPIN    | BenPIN    |                       | Yes      | N/A                      | None       |
| 122 | M127A |           | BenPIN    |                       | Yes      | ** NA **                 | None       |
| 123 | M128  |           |           |                       | Yes      | N/A                      | None       |
| 124 | M128A |           | BenPIN    |                       | Yes      | ** NA **                 | None       |
| 125 | M129  | BenPIN    | BenPIN    |                       | Yes      | N/A                      | None       |
| 126 | M129A |           |           |                       | Yes      | N/A                      | None       |
| 127 | M129B |           | BenPIN    |                       | Yes      | ** NA **                 | None       |
| 128 | M130  |           |           |                       | Yes      | N/A                      | None       |
| 129 | M130A |           | BenPIN    |                       | Yes      | ** NA **                 | None       |
| 130 | M131  |           |           |                       | Yes      | N/A                      | None       |
| 131 | M131A |           | BenPIN    |                       | Yes      | ** NA **                 | None       |
| 132 | M132  |           |           |                       | Yes      | N/A                      | None       |
| 133 | M133  |           |           |                       | Yes      | N/A                      | None       |
| 134 | M134  |           |           |                       | Yes      | N/A                      | None       |
| 135 | M135  |           |           |                       | Yes      | N/A                      | None       |
| 136 | M136  |           |           |                       | Yes      | N/A                      | None       |
| 137 | M137  |           |           |                       | Yes      | N/A                      | None       |
| 138 | M138  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 139 | M139  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 140 | M140  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 141 | M141  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 142 | M142  |           |           |                       | Yes      | N/A                      | None       |
| 143 | M143  |           |           |                       | Yes      | N/A                      | None       |
| 144 | M144  |           |           |                       | Yes      | N/A                      | None       |
| 145 | M145  |           |           |                       | Yes      | N/A                      | None       |
| 146 | M146  |           |           |                       | Yes      | N/A                      | None       |
| 147 | M147  |           |           |                       | Yes      | N/A                      | None       |
| 148 | M148  | BenPIN    | BenPIN    |                       | Yes      | N/A                      | None       |
| 149 | M149  | BenPIN    | BenPIN    |                       | Yes      | N/A                      | None       |
| 150 | M150  |           |           |                       | Yes      | N/A                      | None       |
| 151 | M151  |           |           |                       | Yes      | N/A                      | None       |
| 152 | M152  |           |           |                       | Yes      | N/A                      | None       |
| 153 | M153  |           |           |                       | Yes      | N/A                      | None       |
| 154 | M154  | BenPIN    | BenPIN    |                       | Yes      | N/A                      | None       |



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**Member Advanced Data (Continued)**

|     | Label | I Release | J Release | Col-Wall Vert Release | Physical | Deflection Ratio Options | Seismic DR |
|-----|-------|-----------|-----------|-----------------------|----------|--------------------------|------------|
| 155 | M155  | BenPIN    | BenPIN    |                       | Yes      | N/A                      | None       |
| 156 | M156  |           |           |                       | Yes      | N/A                      | None       |
| 157 | M157  |           |           |                       | Yes      | N/A                      | None       |
| 158 | M158  |           |           |                       | Yes      | N/A                      | None       |
| 159 | M159  |           |           |                       | Yes      | N/A                      | None       |
| 160 | M160  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 161 | M161  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 162 | M162  | BenPIN    |           |                       | Yes      | N/A                      | None       |
| 163 | M163  | BenPIN    |           |                       | Yes      | N/A                      | None       |
| 164 | M224  | BenPIN    | BenPIN    |                       | Yes      | ** NA **                 | None       |
| 165 | M225  |           |           |                       | Yes      | ** NA **                 | None       |
| 166 | M226  |           |           |                       | Yes      | ** NA **                 | None       |
| 167 | M227  |           |           |                       | Yes      | ** NA **                 | None       |
| 168 | M228  |           | BenPIN    |                       | Yes      | ** NA **                 | None       |
| 169 | M229  |           | BenPIN    |                       | Yes      | ** NA **                 | None       |
| 170 | M230  |           | BenPIN    |                       | Yes      | ** NA **                 | None       |
| 171 | M231  |           | BenPIN    |                       | Yes      | ** NA **                 | None       |
| 172 | M232  |           |           |                       | Yes      | ** NA **                 | None       |
| 173 | M233  |           |           |                       | Yes      | ** NA **                 | None       |
| 174 | M234  |           |           |                       | Yes      | ** NA **                 | None       |
| 175 | M235  |           |           |                       | Yes      | ** NA **                 | None       |
| 176 | M236  |           |           |                       | Yes      | ** NA **                 | None       |
| 177 | M237  | OOOXOX    |           |                       | Yes      | ** NA **                 | None       |
| 178 | M238  |           |           |                       | Yes      | ** NA **                 | None       |
| 179 | M239  | OOOXOX    |           |                       | Yes      | ** NA **                 | None       |
| 180 | M240  |           |           |                       | Yes      | ** NA **                 | None       |
| 181 | M241  | OOOXOX    |           |                       | Yes      | ** NA **                 | None       |
| 182 | M242  |           |           |                       | Yes      | ** NA **                 | None       |
| 183 | M243  | OOOXOX    |           |                       | Yes      | ** NA **                 | None       |
| 184 | M244  | BenPIN    |           |                       | Yes      | ** NA **                 | None       |
| 185 | M245  | BenPIN    |           |                       | Yes      | ** NA **                 | None       |
| 186 | M246  | BenPIN    |           |                       | Yes      | ** NA **                 | None       |
| 187 | M247  | BenPIN    |           |                       | Yes      | ** NA **                 | None       |
| 188 | M248  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 189 | M249  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 190 | M251  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 191 | M252  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 192 | M253  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 193 | M253A |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 194 | M254  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 195 | M255  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 196 | M256  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 197 | M257  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 198 | M258  |           |           |                       | Yes      | N/A                      | None       |
| 199 | M259  |           |           |                       | Yes      | N/A                      | None       |
| 200 | M260  |           |           |                       | Yes      | N/A                      | None       |
| 201 | M261  |           |           |                       | Yes      | N/A                      | None       |
| 202 | M262  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 203 | M263  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 204 | M264  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 205 | M265  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 206 | M266  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 207 | M267  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 208 | M268  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 209 | M269  |           | BenPIN    |                       | Yes      | N/A                      | None       |



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**Member Advanced Data (Continued)**

|     | Label | I Release | J Release | Col-Wall Vert Release | Physical | Deflection Ratio Options | Seismic DR |
|-----|-------|-----------|-----------|-----------------------|----------|--------------------------|------------|
| 210 | M270  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 211 | M271  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 212 | M272  |           |           |                       | Yes      | N/A                      | None       |
| 213 | M273  |           |           |                       | Yes      | N/A                      | None       |
| 214 | M274  |           |           |                       | Yes      | N/A                      | None       |
| 215 | M275  |           |           |                       | Yes      | N/A                      | None       |
| 216 | M276  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 217 | M277  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 218 | M278  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 219 | M279  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 220 | M280  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 221 | M281  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 222 | M282  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 223 | M283  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 224 | M284  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 225 | M285  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 226 | M286  |           |           |                       | Yes      | N/A                      | None       |
| 227 | M287  |           |           |                       | Yes      | N/A                      | None       |
| 228 | M288  |           |           |                       | Yes      | N/A                      | None       |
| 229 | M289  |           |           |                       | Yes      | N/A                      | None       |
| 230 | M290  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 231 | M291  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 232 | M292  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 233 | M293  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 234 | M294  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 235 | M295  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 236 | M296  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 237 | M297  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 238 | M298  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 239 | M299  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 240 | M300  |           |           |                       | Yes      | N/A                      | None       |
| 241 | M301  |           |           |                       | Yes      | N/A                      | None       |
| 242 | M302  |           |           |                       | Yes      | N/A                      | None       |
| 243 | M303  |           |           |                       | Yes      | N/A                      | None       |
| 244 | M304  |           |           |                       | Yes      | N/A                      | None       |
| 245 | M305  |           |           |                       | Yes      | ** NA **                 | None       |
| 246 | M306  |           |           |                       | Yes      | ** NA **                 | None       |
| 247 | M307  |           |           |                       | Yes      | N/A                      | None       |
| 248 | M308  |           |           |                       | Yes      | ** NA **                 | None       |
| 249 | M309  |           |           |                       | Yes      | ** NA **                 | None       |
| 250 | M311  |           | OOOXOX    |                       | Yes      | ** NA **                 | None       |
| 251 | M312  |           |           |                       | Yes      | ** NA **                 | None       |
| 252 | M314  |           | OOOXOX    |                       | Yes      | ** NA **                 | None       |
| 253 | M315  |           |           |                       | Yes      | ** NA **                 | None       |
| 254 | M317  |           | OOOXOX    |                       | Yes      | ** NA **                 | None       |
| 255 | M318  |           |           |                       | Yes      | ** NA **                 | None       |
| 256 | M319  |           |           |                       | Yes      | N/A                      | None       |
| 257 | M320  |           |           |                       | Yes      | ** NA **                 | None       |
| 258 | M321  |           |           |                       | Yes      | ** NA **                 | None       |
| 259 | M322  |           |           |                       | Yes      | N/A                      | None       |
| 260 | M323  |           |           |                       | Yes      | ** NA **                 | None       |
| 261 | M324  |           |           |                       | Yes      | ** NA **                 | None       |
| 262 | M326  |           | OOOXOX    |                       | Yes      | ** NA **                 | None       |
| 263 | M327  |           |           |                       | Yes      | ** NA **                 | None       |
| 264 | M329  |           | OOOXOX    |                       | Yes      | ** NA **                 | None       |



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Designer : PRS  
Job Number : TEP No. 309257.1151610  
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**Member Advanced Data (Continued)**

|     | Label | I Release | J Release | Col-Wall Vert Release | Physical | Deflection Ratio Options | Seismic DR |
|-----|-------|-----------|-----------|-----------------------|----------|--------------------------|------------|
| 265 | M330  |           |           |                       | Yes      | ** NA **                 | None       |
| 266 | M332  |           | OOOXOX    |                       | Yes      | ** NA **                 | None       |
| 267 | M333  |           |           |                       | Yes      | ** NA **                 | None       |
| 268 | M334  |           |           |                       | Yes      | N/A                      | None       |
| 269 | M335  |           |           |                       | Yes      | ** NA **                 | None       |
| 270 | M336  |           |           |                       | Yes      | ** NA **                 | None       |
| 271 | M337  |           |           |                       | Yes      | N/A                      | None       |
| 272 | M338  |           |           |                       | Yes      | ** NA **                 | None       |
| 273 | M339  |           |           |                       | Yes      | ** NA **                 | None       |
| 274 | M341  |           | OOOXOX    |                       | Yes      | ** NA **                 | None       |
| 275 | M342  |           |           |                       | Yes      | ** NA **                 | None       |
| 276 | M344  |           | OOOXOX    |                       | Yes      | ** NA **                 | None       |
| 277 | M345  |           |           |                       | Yes      | ** NA **                 | None       |
| 278 | M347  |           | OOOXOX    |                       | Yes      | ** NA **                 | None       |
| 279 | M348  |           |           |                       | Yes      | ** NA **                 | None       |
| 280 | M349  |           |           |                       | Yes      | N/A                      | None       |
| 281 | M350  |           |           |                       | Yes      | ** NA **                 | None       |
| 282 | M351  |           |           |                       | Yes      | ** NA **                 | None       |
| 283 | M352  |           |           |                       | Yes      | N/A                      | None       |
| 284 | M353  |           |           |                       | Yes      | ** NA **                 | None       |
| 285 | M354  |           |           |                       | Yes      | ** NA **                 | None       |
| 286 | M356  |           | OOOXOX    |                       | Yes      | ** NA **                 | None       |
| 287 | M357  |           |           |                       | Yes      | ** NA **                 | None       |
| 288 | M359  |           | OOOXOX    |                       | Yes      | ** NA **                 | None       |
| 289 | M360  |           |           |                       | Yes      | ** NA **                 | None       |
| 290 | M362  |           | OOOXOX    |                       | Yes      | ** NA **                 | None       |
| 291 | M362A |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 292 | M363  |           |           |                       | Yes      | ** NA **                 | None       |
| 293 | M368  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 294 | M372  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 295 | M376  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 296 | M376A |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 297 | M377  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 298 | M378  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 299 | M379  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 300 | M380  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 301 | M381  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 302 | M382  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 303 | M382A |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 304 | M390A |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 305 | M396A |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 306 | MP-1  |           |           |                       | Yes      | ** NA **                 | None       |
| 307 | MP-2  |           |           |                       | Yes      | ** NA **                 | None       |
| 308 | MP-3  |           |           |                       | Yes      | ** NA **                 | None       |
| 309 | MP-4  |           |           |                       | Yes      | ** NA **                 | None       |
| 310 | MP-5  |           |           |                       | Yes      | ** NA **                 | None       |
| 311 | MP-6  |           |           |                       | Yes      | ** NA **                 | None       |
| 312 | MP-7  |           |           |                       | Yes      | ** NA **                 | None       |
| 313 | MP-8  |           |           |                       | Yes      | ** NA **                 | None       |
| 314 | MP-9  |           |           |                       | Yes      | ** NA **                 | None       |
| 315 | MP-10 |           |           |                       | Yes      | ** NA **                 | None       |
| 316 | MP-11 |           |           |                       | Yes      | ** NA **                 | None       |
| 317 | MP-12 |           |           |                       | Yes      | ** NA **                 | None       |
| 318 | MP-13 |           |           |                       | Yes      | ** NA **                 | None       |
| 319 | MP-14 |           |           |                       | Yes      | ** NA **                 | None       |



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Designer : PRS  
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**Member Advanced Data (Continued)**

|     | Label | I Release | J Release | Col-Wall Vert Release | Physical | Deflection Ratio Options | Seismic DR |
|-----|-------|-----------|-----------|-----------------------|----------|--------------------------|------------|
| 320 | MP-15 |           |           |                       | Yes      | ** NA **                 | None       |
| 321 | MP-16 |           |           |                       | Yes      | ** NA **                 | None       |
| 322 | MP-17 |           |           |                       | Yes      | ** NA **                 | None       |
| 323 | MP-18 |           |           |                       | Yes      | ** NA **                 | None       |
| 324 | MP-19 |           |           |                       | Yes      | ** NA **                 | None       |
| 325 | MP-20 |           |           |                       | Yes      | ** NA **                 | None       |
| 326 | M344A |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 327 | M345A |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 328 | M346  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 329 | M347A |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 330 | M348A |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 331 | M349A |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 332 | M350A |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 333 | M351A |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 334 | M352A |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 335 | M353A |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 336 | M354A |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 337 | M355  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 338 | M356A |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 339 | M357A |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 340 | M358  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 341 | M359A |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 342 | M360A |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 343 | M361  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 344 | M362B |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 345 | M363A |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 346 | M364  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 347 | M365  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 348 | M366  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 349 | M367  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 350 | M368A |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 351 | M369  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 352 | M370  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 353 | M371  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 354 | M372A |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 355 | M373  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 356 | M374  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 357 | M375  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 358 | M376B |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 359 | M377A |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 360 | M378A |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 361 | M379A |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 362 | M380A |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 363 | M381A |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 364 | M382B |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 365 | M383  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 366 | M384  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 367 | M385  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 368 | M386  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 369 | M387  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 370 | M388  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 371 | M389  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 372 | M390  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 373 | M391  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 374 | M392  |           | BenPIN    |                       | Yes      | N/A                      | None       |



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### Member Advanced Data (Continued)

|     | Label | I Release | J Release | Col-Wall Vert Release | Physical | Deflection Ratio Options | Seismic DR |
|-----|-------|-----------|-----------|-----------------------|----------|--------------------------|------------|
| 375 | M393  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 376 | M394  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 377 | M395  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 378 | M396  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 379 | M397  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 380 | M398  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 381 | M399  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 382 | M400  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 383 | M401  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 384 | M402  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 385 | M403  |           | BenPIN    |                       | Yes      | N/A                      | None       |
| 386 | M386A |           |           |                       | Yes      | N/A                      | None       |
| 387 | M387A |           |           |                       | Yes      | N/A                      | None       |
| 388 | M388A |           |           |                       | Yes      | N/A                      | None       |
| 389 | M389A |           |           |                       | Yes      | N/A                      | None       |
| 390 | M390B |           |           |                       | Yes      | N/A                      | None       |
| 391 | M391A |           |           |                       | Yes      | N/A                      | None       |
| 392 | M392A |           |           |                       | Yes      | N/A                      | None       |
| 393 | M393A |           |           |                       | Yes      | N/A                      | None       |
| 394 | M394A |           |           |                       | Yes      | N/A                      | None       |
| 395 | M395A |           |           |                       | Yes      | N/A                      | None       |
| 396 | M396B |           |           |                       | Yes      | N/A                      | None       |
| 397 | M397A |           |           |                       | Yes      | N/A                      | None       |
| 398 | M398A |           |           |                       | Yes      | N/A                      | None       |
| 399 | M399A |           |           |                       | Yes      | N/A                      | None       |
| 400 | M400A |           |           |                       | Yes      | N/A                      | None       |
| 401 | M401A |           |           |                       | Yes      | N/A                      | None       |
| 402 | M402A |           |           |                       | Yes      | N/A                      | None       |
| 403 | M403A |           |           |                       | Yes      | N/A                      | None       |
| 404 | M404  |           |           |                       | Yes      | ** NA **                 | None       |
| 405 | M405  |           |           |                       | Yes      | ** NA **                 | None       |
| 406 | M406  |           |           |                       | Yes      | ** NA **                 | None       |
| 407 | M407  |           |           |                       | Yes      | ** NA **                 | None       |
| 408 | M408  |           |           |                       | Yes      | ** NA **                 | None       |
| 409 | M409  |           |           |                       | Yes      | ** NA **                 | None       |
| 410 | M410  |           |           |                       | Yes      | ** NA **                 | None       |
| 411 | M411  |           |           |                       | Yes      | ** NA **                 | None       |
| 412 | M412  |           |           |                       | Yes      | ** NA **                 | None       |
| 413 | M413  |           |           |                       | Yes      | ** NA **                 | None       |
| 414 | M414  |           |           |                       | Yes      | ** NA **                 | None       |
| 415 | M415  |           |           |                       | Yes      | ** NA **                 | None       |
| 416 | MP-21 |           |           |                       | Yes      | ** NA **                 | None       |
| 417 | MP-22 |           |           |                       | Yes      | ** NA **                 | None       |
| 418 | MP-23 |           |           |                       | Yes      | ** NA **                 | None       |
| 419 | MP-24 |           |           |                       | Yes      | ** NA **                 | None       |
| 420 | MP-25 |           |           |                       | Yes      | ** NA **                 | None       |
| 421 | MP-26 |           |           |                       | Yes      | ** NA **                 | None       |

### Hot Rolled Steel Design Parameters

|   | Label | Shape      | Length [ft] | Lb y-y [ft] | Lb z-z [ft] | K y-y | K z-z | Channel Conn. | a [ft] | Function |
|---|-------|------------|-------------|-------------|-------------|-------|-------|---------------|--------|----------|
| 1 | M1    | TWR LEG T1 | 31.25       |             |             | 0.65  | 0.65  | N/A           | N/A    | Lateral  |
| 2 | M2    | TWR LEG T1 | 31.25       |             |             | 0.65  | 0.65  | N/A           | N/A    | Lateral  |
| 3 | M3    | TWR LEG T1 | 31.25       |             |             | 0.65  | 0.65  | N/A           | N/A    | Lateral  |
| 4 | M4    | TWR LEG T1 | 31.25       |             |             | 0.65  | 0.65  | N/A           | N/A    | Lateral  |
| 5 | M5    | TWR LEG T2 | 22.667      |             |             | 2.1   | 2.1   | N/A           | N/A    | Lateral  |



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Designer : PRS  
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### Hot Rolled Steel Design Parameters (Continued)

|    | Label | Shape        | Length [ft] | Lb y-y [ft] | Lb z-z [ft] | K y-y | K z-z | Channel Conn. | a [ft] | Function |
|----|-------|--------------|-------------|-------------|-------------|-------|-------|---------------|--------|----------|
| 6  | M6    | TWR LEG T2   | 22.667      |             |             | 2.1   | 2.1   | N/A           | N/A    | Lateral  |
| 7  | M7    | TWR LEG T2   | 22.667      |             |             | 2.1   | 2.1   | N/A           | N/A    | Lateral  |
| 8  | M8    | TWR LEG T2   | 22.667      |             |             | 2.1   | 2.1   | N/A           | N/A    | Lateral  |
| 9  | M9    | Inner Girt 1 | 3.625       |             |             | 0.65  | 0.65  | N/A           | N/A    | Lateral  |
| 10 | M10   | Inner Girt 1 | 3.625       |             |             | 0.65  | 0.65  | N/A           | N/A    | Lateral  |
| 11 | M11   | Inner Girt 1 | 3.625       |             |             | 0.65  | 0.65  | N/A           | N/A    | Lateral  |
| 12 | M12   | Inner Girt 1 | 3.625       |             |             | 0.65  | 0.65  | N/A           | N/A    | Lateral  |
| 13 | M13   | Inner Girt 1 | 3.625       |             |             | 0.65  | 0.65  | N/A           | N/A    | Lateral  |
| 14 | M14   | Inner Girt 1 | 3.625       |             |             | 0.65  | 0.65  | N/A           | N/A    | Lateral  |
| 15 | M15   | Inner Girt 1 | 3.625       |             |             | 0.65  | 0.65  | N/A           | N/A    | Lateral  |
| 16 | M16   | Inner Girt 1 | 3.625       |             |             | 0.65  | 0.65  | N/A           | N/A    | Lateral  |
| 17 | M17   | Inner Girt 2 | 5.127       |             |             | 0.65  | 0.65  | N/A           | N/A    | Lateral  |
| 18 | M18   | Inner Girt 2 | 5.127       |             |             | 0.65  | 0.65  | N/A           | N/A    | Lateral  |
| 19 | M19   | Inner Girt 2 | 5.127       |             |             | 0.65  | 0.65  | N/A           | N/A    | Lateral  |
| 20 | M20   | Inner Girt 2 | 5.127       |             |             | 0.65  | 0.65  | N/A           | N/A    | Lateral  |
| 21 | M21   | Inner Girt 3 | 3.625       |             |             | 1     | 1     | N/A           | N/A    | Lateral  |
| 22 | M22   | Inner Girt 3 | 3.625       |             |             | 1     | 1     | N/A           | N/A    | Lateral  |
| 23 | M23   | Inner Girt 3 | 3.625       |             |             | 1     | 1     | N/A           | N/A    | Lateral  |
| 24 | M44   | Outer Girt 2 | 1.786       |             |             | 0.8   | 0.8   | N/A           | N/A    | Lateral  |
| 25 | M45   | Outer Girt 2 | 1.786       |             |             | 0.8   | 0.8   | N/A           | N/A    | Lateral  |
| 26 | M46   | Outer Girt 2 | 1.786       |             |             | 0.8   | 0.8   | N/A           | N/A    | Lateral  |
| 27 | M47   | Outer Girt 2 | 1.786       |             |             | 0.8   | 0.8   | N/A           | N/A    | Lateral  |
| 28 | M48   | Outer Girt 2 | 1.786       |             |             | 0.8   | 0.8   | N/A           | N/A    | Lateral  |
| 29 | M49   | Outer Girt 2 | 1.786       |             |             | 0.8   | 0.8   | N/A           | N/A    | Lateral  |
| 30 | M50   | Outer Girt 2 | 1.786       |             |             | 0.8   | 0.8   | N/A           | N/A    | Lateral  |
| 31 | M51   | Outer Girt 2 | 1.786       |             |             | 0.8   | 0.8   | N/A           | N/A    | Lateral  |
| 32 | M52   | Outer Girt 2 | 1.786       |             |             | 0.8   | 0.8   | N/A           | N/A    | Lateral  |
| 33 | M53   | Outer Girt 2 | 1.786       |             |             | 0.8   | 0.8   | N/A           | N/A    | Lateral  |
| 34 | M54   | Outer Girt 2 | 1.786       |             |             | 0.8   | 0.8   | N/A           | N/A    | Lateral  |
| 35 | M55   | Outer Girt 2 | 1.786       |             |             | 0.8   | 0.8   | N/A           | N/A    | Lateral  |
| 36 | M56   | Outer Girt 2 | 1.786       |             |             | 0.8   | 0.8   | N/A           | N/A    | Lateral  |
| 37 | M57   | Outer Girt 2 | 1.786       |             |             | 0.8   | 0.8   | N/A           | N/A    | Lateral  |
| 38 | M58   | Outer Girt 2 | 1.786       |             |             | 0.8   | 0.8   | N/A           | N/A    | Lateral  |
| 39 | M59   | Outer Girt 2 | 1.786       |             |             | 0.8   | 0.8   | N/A           | N/A    | Lateral  |
| 40 | M60   | Outer Girt 2 | 1.786       |             |             | 0.8   | 0.8   | N/A           | N/A    | Lateral  |
| 41 | M61   | Outer Girt 2 | 1.786       |             |             | 0.8   | 0.8   | N/A           | N/A    | Lateral  |
| 42 | M78   | Outer Girt 2 | 1.786       |             |             | 0.8   | 0.8   | N/A           | N/A    | Lateral  |
| 43 | M79   | Outer Girt 2 | 1.786       |             |             | 0.8   | 0.8   | N/A           | N/A    | Lateral  |
| 44 | M80   | Outer Girt 2 | 1.786       |             |             | 0.8   | 0.8   | N/A           | N/A    | Lateral  |
| 45 | M81   | Outer Girt 2 | 1.786       |             |             | 0.8   | 0.8   | N/A           | N/A    | Lateral  |
| 46 | M82   | Outer Girt 2 | 1.786       |             |             | 0.8   | 0.8   | N/A           | N/A    | Lateral  |
| 47 | M83   | Outer Girt 2 | 1.786       |             |             | 0.8   | 0.8   | N/A           | N/A    | Lateral  |
| 48 | M84   | Outer Girt 2 | 1.786       |             |             | 0.8   | 0.8   | N/A           | N/A    | Lateral  |
| 49 | M85   | Outer Girt 2 | 1.786       |             |             | 0.8   | 0.8   | N/A           | N/A    | Lateral  |
| 50 | M86   | Outer Girt 2 | 1.786       |             |             | 0.8   | 0.8   | N/A           | N/A    | Lateral  |
| 51 | M87   | Outer Girt 2 | 1.786       |             |             | 0.8   | 0.8   | N/A           | N/A    | Lateral  |
| 52 | M88   | Outer Girt 2 | 1.786       |             |             | 0.8   | 0.8   | N/A           | N/A    | Lateral  |
| 53 | M89   | Outer Girt 2 | 1.786       |             |             | 0.8   | 0.8   | N/A           | N/A    | Lateral  |
| 54 | M90   | Outer Girt 2 | 1.786       |             |             | 0.8   | 0.8   | N/A           | N/A    | Lateral  |
| 55 | M91   | Outer Girt 2 | 1.786       |             |             | 0.8   | 0.8   | N/A           | N/A    | Lateral  |
| 56 | M92   | Outer Girt 2 | 1.786       |             |             | 0.8   | 0.8   | N/A           | N/A    | Lateral  |
| 57 | M93   | Outer Girt 2 | 1.786       |             |             | 0.8   | 0.8   | N/A           | N/A    | Lateral  |
| 58 | M94   | Outer Girt 2 | 1.786       |             |             | 0.8   | 0.8   | N/A           | N/A    | Lateral  |
| 59 | M95   | Outer Girt 2 | 1.786       |             |             | 0.8   | 0.8   | N/A           | N/A    | Lateral  |
| 60 | M96   | Outer Girt 2 | 1.786       |             |             | 0.8   | 0.8   | N/A           | N/A    | Lateral  |



Company : TEP  
Designer : PRS  
Job Number : TEP No. 309257.1151610  
Model Name : Jackson DT (BU 831885)

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### Hot Rolled Steel Design Parameters (Continued)

|     | Label | Shape        | Length [ft] | Lb y-y [ft] | Lb z-z [ft] | K y-y | K z-z | Channel Conn. | a [ft] | Function |
|-----|-------|--------------|-------------|-------------|-------------|-------|-------|---------------|--------|----------|
| 61  | M97   | Outer Girt 2 | 1.786       |             |             | 0.8   | 0.8   | N/A           | N/A    | Lateral  |
| 62  | M98   | Outer Girt 2 | 1.786       |             |             | 0.8   | 0.8   | N/A           | N/A    | Lateral  |
| 63  | M99   | Outer Girt 2 | 1.786       |             |             | 0.8   | 0.8   | N/A           | N/A    | Lateral  |
| 64  | M100  | Outer Girt 2 | 1.786       |             |             | 0.8   | 0.8   | N/A           | N/A    | Lateral  |
| 65  | M101  | Outer Girt 2 | 1.786       |             |             | 0.8   | 0.8   | N/A           | N/A    | Lateral  |
| 66  | M102  | Outer Girt 2 | 1.786       |             |             | 0.8   | 0.8   | N/A           | N/A    | Lateral  |
| 67  | M103  | Outer Girt 2 | 1.786       |             |             | 0.8   | 0.8   | N/A           | N/A    | Lateral  |
| 68  | M104  | Outer Girt 2 | 1.786       |             |             | 0.8   | 0.8   | N/A           | N/A    | Lateral  |
| 69  | M105  | Outer Girt 2 | 1.786       |             |             | 0.8   | 0.8   | N/A           | N/A    | Lateral  |
| 70  | M106  | Outer Girt 2 | 1.786       |             |             | 0.8   | 0.8   | N/A           | N/A    | Lateral  |
| 71  | M107  | Outer Girt 2 | 1.786       |             |             | 0.8   | 0.8   | N/A           | N/A    | Lateral  |
| 72  | M108  | Outer Girt 2 | 1.786       |             |             | 0.8   | 0.8   | N/A           | N/A    | Lateral  |
| 73  | M109  | Outer Girt 2 | 1.786       |             |             | 0.8   | 0.8   | N/A           | N/A    | Lateral  |
| 74  | M110  | Outer Girt 2 | 1.786       |             |             | 0.8   | 0.8   | N/A           | N/A    | Lateral  |
| 75  | M111  | Outer Girt 2 | 1.786       |             |             | 0.8   | 0.8   | N/A           | N/A    | Lateral  |
| 76  | M112  | Outer Girt 2 | 1.786       |             |             | 0.8   | 0.8   | N/A           | N/A    | Lateral  |
| 77  | M113  | Outer Girt 2 | 1.786       |             |             | 0.8   | 0.8   | N/A           | N/A    | Lateral  |
| 78  | M114  | Outer Girt 2 | 1.786       |             |             | 0.8   | 0.8   | N/A           | N/A    | Lateral  |
| 79  | M115  | Outer Girt 2 | 1.786       |             |             | 0.8   | 0.8   | N/A           | N/A    | Lateral  |
| 80  | M116A | Outer Girt 2 | 1.786       |             |             | 0.8   | 0.8   | N/A           | N/A    | Lateral  |
| 81  | M117A | Outer Girt 2 | 1.786       |             |             | 0.8   | 0.8   | N/A           | N/A    | Lateral  |
| 82  | M118A | Outer Girt 2 | 1.786       |             |             | 0.8   | 0.8   | N/A           | N/A    | Lateral  |
| 83  | M119A | Outer Girt 2 | 1.786       |             |             | 0.8   | 0.8   | N/A           | N/A    | Lateral  |
| 84  | M120A | Outer Girt 2 | 1.786       |             |             | 0.8   | 0.8   | N/A           | N/A    | Lateral  |
| 85  | M121A | Outer Girt 2 | 1.786       |             |             | 0.8   | 0.8   | N/A           | N/A    | Lateral  |
| 86  | M122A | Outer Girt 2 | 1.786       |             |             | 0.8   | 0.8   | N/A           | N/A    | Lateral  |
| 87  | M123A | Outer Girt 2 | 1.786       |             |             | 0.8   | 0.8   | N/A           | N/A    | Lateral  |
| 88  | M124  | Inner Girt 2 | 3.625       |             |             | 1     | 1     | N/A           | N/A    | Lateral  |
| 89  | M124A | Outer Girt 2 | 1.786       |             |             | 0.8   | 0.8   | N/A           | N/A    | Lateral  |
| 90  | M125  | Inner Girt 2 | 3.625       |             |             | 1     | 1     | N/A           | N/A    | Lateral  |
| 91  | M125A | Outer Girt 2 | 1.786       |             |             | 0.8   | 0.8   | N/A           | N/A    | Lateral  |
| 92  | M126  | Outer Girt 2 | 1.786       |             |             | 0.8   | 0.8   | N/A           | N/A    | Lateral  |
| 93  | M127A | Outer Girt 2 | 1.786       |             |             | 0.8   | 0.8   | N/A           | N/A    | Lateral  |
| 94  | M128A | Outer Girt 2 | 1.786       |             |             | 0.8   | 0.8   | N/A           | N/A    | Lateral  |
| 95  | M129B | Outer Girt 2 | 1.786       |             |             | 0.8   | 0.8   | N/A           | N/A    | Lateral  |
| 96  | M130A | Outer Girt 2 | 1.786       |             |             | 0.8   | 0.8   | N/A           | N/A    | Lateral  |
| 97  | M131A | Outer Girt 2 | 1.786       |             |             | 0.8   | 0.8   | N/A           | N/A    | Lateral  |
| 98  | M224  | Cross        | 14.708      |             |             | 1     | 1     | N/A           | N/A    | Lateral  |
| 99  | M227  | Cross        | 2.885       |             |             | 2.1   | 2.1   | N/A           | N/A    | Lateral  |
| 100 | M228  | L11/2X11/2X3 | 2           |             |             | 0.8   | 0.8   | N/A           | N/A    | Lateral  |
| 101 | M229  | L11/2X11/2X3 | 2           |             |             | 0.8   | 0.8   | N/A           | N/A    | Lateral  |
| 102 | M230  | L11/2X11/2X3 | 2           |             |             | 0.8   | 0.8   | N/A           | N/A    | Lateral  |
| 103 | M231  | L11/2X11/2X3 | 2           |             |             | 0.8   | 0.8   | N/A           | N/A    | Lateral  |
| 104 | M232  | L11/2X11/2X3 | 5.5         |             |             | 2.1   | 2.1   | N/A           | N/A    | Lateral  |
| 105 | M233  | L11/2X11/2X3 | 5.5         |             |             | 2.1   | 2.1   | N/A           | N/A    | Lateral  |
| 106 | M234  | L11/2X11/2X3 | 5.5         |             |             | 2.1   | 2.1   | N/A           | N/A    | Lateral  |
| 107 | M235  | L11/2X11/2X3 | 5.5         |             |             | 2.1   | 2.1   | N/A           | N/A    | Lateral  |
| 108 | MP-1  | Mount Pipe   | 10.5        | Segment     | Segment     | 2.1   | 2.1   | N/A           | N/A    | Lateral  |
| 109 | MP-2  | Mount Pipe   | 9           | Segment     | Segment     | 2.1   | 2.1   | N/A           | N/A    | Lateral  |
| 110 | MP-3  | Mount Pipe   | 9           | Segment     | Segment     | 2.1   | 2.1   | N/A           | N/A    | Lateral  |
| 111 | MP-4  | Mount Pipe   | 9           | Segment     | Segment     | 2.1   | 2.1   | N/A           | N/A    | Lateral  |
| 112 | MP-5  | Mount Pipe   | 10.5        | Segment     | Segment     | 2.1   | 2.1   | N/A           | N/A    | Lateral  |
| 113 | MP-6  | Mount Pipe   | 10.5        | Segment     | Segment     | 2.1   | 2.1   | N/A           | N/A    | Lateral  |
| 114 | MP-7  | Mount Pipe   | 9           | Segment     | Segment     | 2.1   | 2.1   | N/A           | N/A    | Lateral  |
| 115 | MP-8  | Mount Pipe   | 9           | Segment     | Segment     | 2.1   | 2.1   | N/A           | N/A    | Lateral  |



Company : TEP  
Designer : PRS  
Job Number : TEP No. 309257.1151610  
Model Name : Jackson DT (BU 831885)

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### Hot Rolled Steel Design Parameters (Continued)

|     | Label | Shape      | Length [ft] | Lb y-y [ft] | Lb z-z [ft] | K y-y | K z-z | Channel Conn. | a [ft] | Function |
|-----|-------|------------|-------------|-------------|-------------|-------|-------|---------------|--------|----------|
| 116 | MP-9  | Mount Pipe | 9           | Segment     | Segment     | 2.1   | 2.1   | N/A           | N/A    | Lateral  |
| 117 | MP-10 | Mount Pipe | 10.5        | Segment     | Segment     | 2.1   | 2.1   | N/A           | N/A    | Lateral  |
| 118 | MP-11 | Mount Pipe | 10.5        | Segment     | Segment     | 2.1   | 2.1   | N/A           | N/A    | Lateral  |
| 119 | MP-12 | Mount Pipe | 9           | Segment     | Segment     | 2.1   | 2.1   | N/A           | N/A    | Lateral  |
| 120 | MP-13 | Mount Pipe | 9           | Segment     | Segment     | 2.1   | 2.1   | N/A           | N/A    | Lateral  |
| 121 | MP-14 | Mount Pipe | 9           | Segment     | Segment     | 2.1   | 2.1   | N/A           | N/A    | Lateral  |
| 122 | MP-15 | Mount Pipe | 10.5        | Segment     | Segment     | 2.1   | 2.1   | N/A           | N/A    | Lateral  |
| 123 | MP-16 | Mount Pipe | 10.5        | Segment     | Segment     | 2.1   | 2.1   | N/A           | N/A    | Lateral  |
| 124 | MP-17 | Mount Pipe | 9           | Segment     | Segment     | 2.1   | 2.1   | N/A           | N/A    | Lateral  |
| 125 | MP-18 | Mount Pipe | 9           | Segment     | Segment     | 2.1   | 2.1   | N/A           | N/A    | Lateral  |
| 126 | MP-19 | Mount Pipe | 9           | Segment     | Segment     | 2.1   | 2.1   | N/A           | N/A    | Lateral  |
| 127 | MP-20 | Mount Pipe | 10.5        | Segment     | Segment     | 2.1   | 2.1   | N/A           | N/A    | Lateral  |
| 128 | MP-21 | Mount Pipe | 9           | Segment     | Segment     | 2.1   | 2.1   | N/A           | N/A    | Lateral  |
| 129 | MP-22 | Mount Pipe | 9           | Segment     | Segment     | 2.1   | 2.1   | N/A           | N/A    | Lateral  |
| 130 | MP-23 | Mount Pipe | 9           | Segment     | Segment     | 2.1   | 2.1   | N/A           | N/A    | Lateral  |
| 131 | MP-24 | Mount Pipe | 9           | Segment     | Segment     | 2.1   | 2.1   | N/A           | N/A    | Lateral  |
| 132 | MP-25 | Mount Pipe | 9           | Segment     | Segment     | 2.1   | 2.1   | N/A           | N/A    | Lateral  |
| 133 | MP-26 | Mount Pipe | 9           | Segment     | Segment     | 2.1   | 2.1   | N/A           | N/A    | Lateral  |

### Basic Load Cases

|    | BLC Description            | Category | Y Gravity | Point | Distributed | Area(Member) |
|----|----------------------------|----------|-----------|-------|-------------|--------------|
| 1  | Dead                       | None     | -1        | 50    |             | 11           |
| 2  | 0 Wind - No Ice            | None     |           |       |             | 7            |
| 3  | 90 Wind - No Ice           | None     |           |       |             | 7            |
| 4  | 180 Wind - No Ice          | None     |           |       |             | 7            |
| 5  | 270 Wind - No Ice          | None     |           |       |             | 7            |
| 6  | Snow Load                  | None     |           |       |             | 1            |
| 7  | BLC 1 Transient Area Loads | None     |           |       | 385         |              |
| 8  | BLC 2 Transient Area Loads | None     |           |       | 149         |              |
| 9  | BLC 3 Transient Area Loads | None     |           |       | 149         |              |
| 10 | BLC 4 Transient Area Loads | None     |           |       | 149         |              |
| 11 | BLC 5 Transient Area Loads | None     |           |       | 149         |              |
| 12 | BLC 6 Transient Area Loads | None     |           |       | 14          |              |

### Load Combinations

|    | Description                          | Solve | P-Delta | BLC | Factor | BLC | Factor | BLC | Factor | BLC | Factor |
|----|--------------------------------------|-------|---------|-----|--------|-----|--------|-----|--------|-----|--------|
| 1  | D                                    | Yes   | Y       | 1   | 1      |     |        |     |        |     |        |
| 2  | D + 0.7S                             | Yes   | Y       | 1   | 1      | 6   | 0.7    |     |        |     |        |
| 3  | D+0.6 0-Wind                         | Yes   | Y       | 1   | 1      | 2   | 0.6    |     |        |     |        |
| 4  | D+0.6 45-Wind                        | Yes   | Y       | 1   | 1      | 2   | 0.424  | 3   | 0.424  |     |        |
| 5  | D+0.6 90-Wind                        | Yes   | Y       | 1   | 1      | 3   | 0.6    |     |        |     |        |
| 6  | D+0.6 135-Wind                       | Yes   | Y       | 1   | 1      | 3   | 0.424  | 4   | 0.424  |     |        |
| 7  | D+0.6 180-Wind                       | Yes   | Y       | 1   | 1      | 4   | 0.6    |     |        |     |        |
| 8  | D+0.6 225-Wind                       | Yes   | Y       | 1   | 1      | 4   | 0.424  | 5   | 0.424  |     |        |
| 9  | D+0.6 270-Wind                       | Yes   | Y       | 1   | 1      | 5   | 0.6    |     |        |     |        |
| 10 | D+0.6 315-Wind                       | Yes   | Y       | 1   | 1      | 5   | 0.424  | 2   | 0.424  |     |        |
| 11 | D + 0.75(0.6 0-Wind) + 0.75(0.7 S)   | Yes   | Y       | 1   | 1      | 2   | 0.45   | 6   | 0.525  |     |        |
| 12 | D + 0.75(0.6 45-Wind) + 0.75(0.7 S)  | Yes   | Y       | 1   | 1      | 2   | 0.318  | 3   | 0.318  | 6   | 0.525  |
| 13 | D + 0.75(0.6 90-Wind) + 0.75(0.7 S)  | Yes   | Y       | 1   | 1      | 3   | 0.45   | 6   | 0.525  |     |        |
| 14 | D + 0.75(0.6 135-Wind) + 0.75(0.7 S) | Yes   | Y       | 1   | 1      | 3   | 0.318  | 4   | 0.318  | 6   | 0.525  |
| 15 | D + 0.75(0.6 180-Wind) + 0.75(0.7 S) | Yes   | Y       | 1   | 1      | 4   | 0.45   | 6   | 0.525  |     |        |
| 16 | D + 0.75(0.6 225-Wind) + 0.75(0.7 S) | Yes   | Y       | 1   | 1      | 4   | 0.318  | 5   | 0.318  | 6   | 0.525  |
| 17 | D + 0.75(0.6 270-Wind) + 0.75(0.7 S) | Yes   | Y       | 1   | 1      | 5   | 0.45   | 6   | 0.525  |     |        |



Company : TEP  
Designer : PRS  
Job Number : TEP No. 309257.1151610  
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### Load Combinations (Continued)

|    | Description                          | Solve | P-Delta | BLC | Factor | BLC | Factor | BLC | Factor | BLC | Factor |
|----|--------------------------------------|-------|---------|-----|--------|-----|--------|-----|--------|-----|--------|
| 18 | D + 0.75(0.6 315-Wind) + 0.75(0.7 S) | Yes   | Y       | 1   | 1      | 5   | 0.318  | 2   | 0.318  | 6   | 0.525  |
| 19 | 0.6D+0.6 0-Wind                      | Yes   | Y       | 1   | 0.6    | 2   | 0.6    |     |        |     |        |
| 20 | 0.6D+0.6 45-Wind                     | Yes   | Y       | 1   | 0.6    | 2   | 0.424  | 3   | 0.424  |     |        |
| 21 | 0.6D+0.6 90-Wind                     | Yes   | Y       | 1   | 0.6    | 3   | 0.6    |     |        |     |        |
| 22 | 0.6D+0.6 135-Wind                    | Yes   | Y       | 1   | 0.6    | 3   | 0.424  | 4   | 0.424  |     |        |
| 23 | 0.6D+0.6 180-Wind                    | Yes   | Y       | 1   | 0.6    | 4   | 0.6    |     |        |     |        |
| 24 | 0.6D+0.6 225-Wind                    | Yes   | Y       | 1   | 0.6    | 4   | 0.424  | 5   | 0.424  |     |        |
| 25 | 0.6D+0.6 270-Wind                    | Yes   | Y       | 1   | 0.6    | 5   | 0.6    |     |        |     |        |
| 26 | 0.6D+0.6 315-Wind                    | Yes   | Y       | 1   | 0.6    | 5   | 0.424  | 2   | 0.424  |     |        |
| 27 | 1.4D                                 |       | Y       | 1   | 1.4    |     |        |     |        |     |        |
| 28 | 1.2D+0.3S                            |       | Y       | 1   | 1.2    | 6   | 0.3    |     |        |     |        |
| 29 | 1.2D+1.0S+0.5 0-Wind                 |       | Y       | 1   | 1.2    | 6   | 1      | 2   | 0.5    |     |        |
| 30 | 1.2D+1.0S+0.5 45-Wind                |       | Y       | 1   | 1.2    | 6   | 1      | 2   | 0.354  | 3   | 0.354  |
| 31 | 1.2D+1.0S+0.5 90-Wind                |       | Y       | 1   | 1.2    | 6   | 1      | 3   | 0.5    |     |        |
| 32 | 1.2D+1.0S+0.5 135-Wind               |       | Y       | 1   | 1.2    | 6   | 1      | 3   | 0.354  | 4   | 0.354  |
| 33 | 1.2D+1.0S+0.5 180-Wind               |       | Y       | 1   | 1.2    | 6   | 1      | 4   | 0.5    |     |        |
| 34 | 1.2D+1.0S+0.5 225-Wind               |       | Y       | 1   | 1.2    | 6   | 1      | 4   | 0.354  | 5   | 0.354  |
| 35 | 1.2D+1.0S+0.5 270-Wind               |       | Y       | 1   | 1.2    | 6   | 1      | 5   | 0.5    |     |        |
| 36 | 1.2D+1.0S+0.5 315-Wind               |       | Y       | 1   | 1.2    | 6   | 1      | 5   | 0.354  | 2   | 0.354  |
| 37 | 1.2D+1.0 0-Wind+0.3S                 |       | Y       | 1   | 1.2    | 6   | 0.3    | 2   | 1      |     |        |
| 38 | 1.2D+1.0 45-Wind+0.3S                |       | Y       | 1   | 1.2    | 6   | 0.3    | 2   | 0.707  | 3   | 0.707  |
| 39 | 1.2D+1.0 90-Wind+0.3S                |       | Y       | 1   | 1.2    | 6   | 0.3    | 3   | 1      |     |        |
| 40 | 1.2D+1.0 135-Wind+0.3S               |       | Y       | 1   | 1.2    | 6   | 0.3    | 3   | 0.707  | 4   | 0.707  |
| 41 | 1.2D+1.0 180-Wind+0.3S               |       | Y       | 1   | 1.2    | 6   | 0.3    | 4   | 1      |     |        |
| 42 | 1.2D+1.0 225-Wind+0.3S               |       | Y       | 1   | 1.2    | 6   | 0.3    | 4   | 0.707  | 5   | 0.707  |
| 43 | 1.2D+1.0 270-Wind+0.3S               |       | Y       | 1   | 1.2    | 6   | 0.3    | 5   | 1      |     |        |
| 44 | 1.2D+1.0 315-Wind+0.3S               |       | Y       | 1   | 1.2    | 6   | 0.3    | 5   | 0.707  | 2   | 0.707  |
| 45 | 0.9D+1.0 0-Wind                      |       | Y       | 1   | 0.9    | 2   | 1      |     |        |     |        |
| 46 | 0.9D+1.0 45-Wind                     |       | Y       | 1   | 0.9    | 2   | 0.707  | 3   | 0.707  |     |        |
| 47 | 0.9D+1.0 90-Wind                     |       | Y       | 1   | 0.9    | 3   | 1      |     |        |     |        |
| 48 | 0.9D+1.0 135-Wind                    |       | Y       | 1   | 0.9    | 3   | 0.707  | 4   | 0.707  |     |        |
| 49 | 0.9D+1.0 180-Wind                    |       | Y       | 1   | 0.9    | 4   | 1      |     |        |     |        |
| 50 | 0.9D+1.0 225-Wind                    |       | Y       | 1   | 0.9    | 4   | 0.707  | 5   | 0.707  |     |        |
| 51 | 0.9D+1.0 270-Wind                    |       | Y       | 1   | 0.9    | 5   | 1      |     |        |     |        |
| 52 | 0.9D+1.0 315-Wind                    |       | Y       | 1   | 0.9    | 5   | 0.707  | 2   | 0.707  |     |        |

### Nodal Loads and Enforced Displacements

No Data to Print...

### Member Point Loads (BLC 1 : Dead)

|    | Member Label | Direction | Magnitude [k, k-ft] | Location [(ft, %)] |
|----|--------------|-----------|---------------------|--------------------|
| 1  | MP-3         | Y         | -0.048              | 1.83               |
| 2  | MP-8         | Y         | -0.048              | 1.83               |
| 3  | MP-10        | Y         | -0.048              | 1.83               |
| 4  | MP-3         | Y         | -0.081              | 4.33               |
| 5  | MP-8         | Y         | -0.081              | 4.33               |
| 6  | MP-10        | Y         | -0.081              | 4.33               |
| 7  | MP-3         | Y         | -0.053              | 4.33               |
| 8  | MP-8         | Y         | -0.053              | 4.33               |
| 9  | MP-3         | Y         | -0.109              | 4.33               |
| 10 | MP-8         | Y         | -0.109              | 4.33               |
| 11 | MP-10        | Y         | -0.109              | 4.33               |
| 12 | MP-11        | Y         | -0.05               | 0.25               |
| 13 | MP-12        | Y         | -0.05               | 0.25               |



Company : TEP  
Designer : PRS  
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Model Name : Jackson DT (BU 831885)

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### Member Point Loads (BLC 1 : Dead) (Continued)

|    | Member Label | Direction | Magnitude [k, k-ft] | Location [(ft, %)] |
|----|--------------|-----------|---------------------|--------------------|
| 14 | MP-14        | Y         | -0.05               | 0.25               |
| 15 | MP-15        | Y         | -0.05               | 0.25               |
| 16 | MP-16        | Y         | -0.05               | 0.25               |
| 17 | MP-17        | Y         | -0.05               | 0.25               |
| 18 | MP-19        | Y         | -0.05               | 0.25               |
| 19 | MP-20        | Y         | -0.05               | 0.25               |
| 20 | MP-21        | Y         | -0.063              | 0.5                |
| 21 | MP-22        | Y         | -0.028              | 0.2                |
| 22 | MP-23        | Y         | -0.063              | 0.5                |
| 23 | MP-24        | Y         | -0.028              | 0.2                |
| 24 | MP-25        | Y         | -0.063              | 0.5                |
| 25 | MP-26        | Y         | -0.028              | 0.2                |
| 26 | MP-21        | Y         | -0.032              | 4.5                |
| 27 | MP-21        | Y         | -0.068              | 4.5                |
| 28 | MP-22        | Y         | -0.068              | 4.5                |
| 29 | MP-23        | Y         | -0.068              | 4.5                |
| 30 | MP-24        | Y         | -0.068              | 4.5                |
| 31 | MP-25        | Y         | -0.068              | 4.5                |
| 32 | MP-26        | Y         | -0.068              | 4.5                |
| 33 | MP-26        | Y         | -0.032              | 4.5                |
| 34 | MP-3         | Y         | -0.048              | 6.833              |
| 35 | MP-8         | Y         | -0.048              | 6.833              |
| 36 | MP-10        | Y         | -0.048              | 6.833              |
| 37 | MP-11        | Y         | -0.05               | 6.25               |
| 38 | MP-12        | Y         | -0.05               | 6.25               |
| 39 | MP-14        | Y         | -0.05               | 6.25               |
| 40 | MP-15        | Y         | -0.05               | 6.25               |
| 41 | MP-16        | Y         | -0.05               | 6.25               |
| 42 | MP-17        | Y         | -0.05               | 6.25               |
| 43 | MP-19        | Y         | -0.05               | 6.25               |
| 44 | MP-20        | Y         | -0.05               | 6.25               |
| 45 | MP-21        | Y         | -0.063              | 8.5                |
| 46 | MP-22        | Y         | -0.028              | 2.8                |
| 47 | MP-23        | Y         | -0.063              | 8.5                |
| 48 | MP-24        | Y         | -0.028              | 2.8                |
| 49 | MP-25        | Y         | -0.063              | 8.5                |
| 50 | MP-26        | Y         | -0.028              | 2.8                |

### Member Area Loads (BLC 1 : Dead)

|    | Node A | Node B | Node C | Node D | Direction | Load Direction | A Magnitude [ksf] | B Magnitude [ksf] | C Magnitude [ksf] | D Magnitude [ksf] | Exclude Braces |
|----|--------|--------|--------|--------|-----------|----------------|-------------------|-------------------|-------------------|-------------------|----------------|
| 1  | N55A   | N53A   | N54A   | N56A   | Y         | Two Way        | -0.012            | -0.012            | -0.012            | -0.012            | Yes            |
| 2  | N51A   | N49A   | N50A   | N52A   | Y         | Two Way        | -0.012            | -0.012            | -0.012            | -0.012            | Yes            |
| 3  | N297A  | N286A  | N288   | N298A  | Y         | Two Way        | -0.003            | -0.003            | -0.003            | -0.003            | Yes            |
| 4  | N294A  | N286A  | N284A  | N293A  | Y         | Two Way        | -0.003            | -0.003            | -0.003            | -0.003            | Yes            |
| 5  | N291A  | N284A  | N285A  | N290A  | Y         | Two Way        | -0.003            | -0.003            | -0.003            | -0.003            | Yes            |
| 6  | N302   | N285A  | N288   | N301   | Y         | Two Way        | -0.003            | -0.003            | -0.003            | -0.003            | Yes            |
| 7  | N288   | N286A  | N284A  | N285A  | Y         | Two Way        | -0.003            | -0.003            | -0.003            | -0.003            | Yes            |
| 8  | N583   | N556   | N550   | N553   | Y         | Two Way        | -0.01             | -0.01             | -0.01             | -0.01             | Yes            |
| 9  | N556   | N555   | N549   | N550   | Y         | Two Way        | -0.01             | -0.01             | -0.01             | -0.01             | Yes            |
| 10 | N555   | N569   | N551   | N549   | Y         | Two Way        | -0.01             | -0.01             | -0.01             | -0.01             | Yes            |
| 11 | N569   | N583   | N553   | N551   | Y         | Two Way        | -0.01             | -0.01             | -0.01             | -0.01             | Yes            |



Company : TEP  
Designer : PRS  
Job Number : TEP No. 309257.1151610  
Model Name : Jackson DT (BU 831885)

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#### Member Area Loads (BLC 2 : 0 Wind - No Ice)

|   | Node A | Node B | Node C | Node D | Direction | Load Direction | A Magnitude [ksf] | B Magnitude [ksf] | C Magnitude [ksf] | D Magnitude [ksf] | Exclude Braces |
|---|--------|--------|--------|--------|-----------|----------------|-------------------|-------------------|-------------------|-------------------|----------------|
| 1 | N550   | N553A  | N554   | N549   | X         | Two Way        | -0.017            | -0.017            | -0.017            | -0.017            | Yes            |
| 2 | N553A  | N557   | N562   | N554   | X         | Two Way        | -0.017            | -0.017            | -0.017            | -0.017            | Yes            |
| 3 | N557   | N558   | N563   | N562   | X         | Two Way        | -0.017            | -0.017            | -0.017            | -0.017            | Yes            |
| 4 | N558   | N559   | N564   | N563   | X         | Two Way        | -0.019            | -0.019            | -0.019            | -0.019            | Yes            |
| 5 | N559   | N560   | N565   | N564   | X         | Two Way        | -0.019            | -0.019            | -0.019            | -0.019            | Yes            |
| 6 | N560   | N561   | N566   | N565   | X         | Two Way        | -0.02             | -0.02             | -0.02             | -0.02             | Yes            |
| 7 | N561   | N556   | N555   | N566   | X         | Two Way        | -0.022            | -0.022            | -0.022            | -0.022            | Yes            |

#### Member Area Loads (BLC 3 : 90 Wind - No Ice)

|   | Node A | Node B | Node C | Node D | Direction | Load Direction | A Magnitude [ksf] | B Magnitude [ksf] | C Magnitude [ksf] | D Magnitude [ksf] | Exclude Braces |
|---|--------|--------|--------|--------|-----------|----------------|-------------------|-------------------|-------------------|-------------------|----------------|
| 1 | N553   | N582   | N553A  | N550   | Z         | Two Way        | -0.017            | -0.017            | -0.017            | -0.017            | Yes            |
| 2 | N582   | N590   | N557   | N553A  | Z         | Two Way        | -0.017            | -0.017            | -0.017            | -0.017            | Yes            |
| 3 | N590   | N591   | N558   | N557   | Z         | Two Way        | -0.017            | -0.017            | -0.017            | -0.017            | Yes            |
| 4 | N591   | N592   | N559   | N558   | Z         | Two Way        | -0.019            | -0.019            | -0.019            | -0.019            | Yes            |
| 5 | N592   | N593   | N560   | N559   | Z         | Two Way        | -0.019            | -0.019            | -0.019            | -0.019            | Yes            |
| 6 | N593   | N594   | N561   | N560   | Z         | Two Way        | -0.02             | -0.02             | -0.02             | -0.02             | Yes            |
| 7 | N594   | N583   | N556   | N561   | Z         | Two Way        | -0.022            | -0.022            | -0.022            | -0.022            | Yes            |

#### Member Area Loads (BLC 4 : 180 Wind - No Ice)

|   | Node A | Node B | Node C | Node D | Direction | Load Direction | A Magnitude [ksf] | B Magnitude [ksf] | C Magnitude [ksf] | D Magnitude [ksf] | Exclude Braces |
|---|--------|--------|--------|--------|-----------|----------------|-------------------|-------------------|-------------------|-------------------|----------------|
| 1 | N551   | N568   | N582   | N553   | X         | Two Way        | 0.017             | 0.017             | 0.017             | 0.017             | Yes            |
| 2 | N568   | N576   | N590   | N582   | X         | Two Way        | 0.017             | 0.017             | 0.017             | 0.017             | Yes            |
| 3 | N576   | N577   | N591   | N590   | X         | Two Way        | 0.017             | 0.017             | 0.017             | 0.017             | Yes            |
| 4 | N577   | N578   | N592   | N591   | X         | Two Way        | 0.019             | 0.019             | 0.019             | 0.019             | Yes            |
| 5 | N578   | N579   | N593   | N592   | X         | Two Way        | 0.019             | 0.019             | 0.019             | 0.019             | Yes            |
| 6 | N579   | N580   | N594   | N593   | X         | Two Way        | 0.02              | 0.02              | 0.02              | 0.02              | Yes            |
| 7 | N580   | N569   | N583   | N594   | X         | Two Way        | 0.022             | 0.022             | 0.022             | 0.022             | Yes            |

#### Member Area Loads (BLC 5 : 270 Wind - No Ice)

|   | Node A | Node B | Node C | Node D | Direction | Load Direction | A Magnitude [ksf] | B Magnitude [ksf] | C Magnitude [ksf] | D Magnitude [ksf] | Exclude Braces |
|---|--------|--------|--------|--------|-----------|----------------|-------------------|-------------------|-------------------|-------------------|----------------|
| 1 | N549   | N554   | N568   | N551   | Z         | Two Way        | 0.017             | 0.017             | 0.017             | 0.017             | Yes            |
| 2 | N554   | N562   | N576   | N568   | Z         | Two Way        | 0.017             | 0.017             | 0.017             | 0.017             | Yes            |
| 3 | N562   | N563   | N577   | N576   | Z         | Two Way        | 0.017             | 0.017             | 0.017             | 0.017             | Yes            |
| 4 | N563   | N564   | N578   | N577   | Z         | Two Way        | 0.019             | 0.019             | 0.019             | 0.019             | Yes            |
| 5 | N564   | N565   | N579   | N578   | Z         | Two Way        | 0.019             | 0.019             | 0.019             | 0.019             | Yes            |
| 6 | N565   | N566   | N580   | N579   | Z         | Two Way        | 0.02              | 0.02              | 0.02              | 0.02              | Yes            |
| 7 | N566   | N555   | N569   | N580   | Z         | Two Way        | 0.022             | 0.022             | 0.022             | 0.022             | Yes            |

#### Member Area Loads (BLC 6 : Snow Load)

|   | Node A | Node B | Node C | Node D | Direction | Load Direction | A Magnitude [ksf] | B Magnitude [ksf] | C Magnitude [ksf] | D Magnitude [ksf] | Exclude Braces |
|---|--------|--------|--------|--------|-----------|----------------|-------------------|-------------------|-------------------|-------------------|----------------|
| 1 | N555   | N556   | N583   | N569   | Y         | Two Way        | -0.118            | -0.118            | -0.118            | -0.118            | Yes            |

#### Envelope Node Reactions

|   | Node Label |     | X [k]  | LC | Y [k]   | LC | Z [k]  | LC | MX [k-ft] | LC | MY [k-ft] | LC | MZ [k-ft] | LC |
|---|------------|-----|--------|----|---------|----|--------|----|-----------|----|-----------|----|-----------|----|
| 1 | N1         | max | 1.343  | 19 | 26.914  | 4  | 1.345  | 5  | 11.05     | 5  | 0.125     | 6  | 11.827    | 7  |
| 2 |            | min | -1.624 | 7  | -18.511 | 24 | -1.617 | 9  | -11.795   | 9  | -0.116    | 26 | -11.035   | 3  |
| 3 | N2         | max | 1.619  | 3  | 26.751  | 6  | 1.342  | 21 | 11.026    | 5  | 0.131     | 8  | 11.054    | 7  |
| 4 |            | min | -1.346 | 7  | -18.609 | 26 | -1.622 | 9  | -11.82    | 9  | -0.11     | 20 | -11.807   | 3  |



Company : TEP  
 Designer : PRS  
 Job Number : TEP No. 309257.1151610  
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#### Envelope Node Reactions (Continued)

| Node Label |         |     | X [k]  | LC | Y [k]   | LC | Z [k]  | LC | MX [k-ft] | LC | MY [k-ft] | LC | MZ [k-ft] | LC |
|------------|---------|-----|--------|----|---------|----|--------|----|-----------|----|-----------|----|-----------|----|
| 5          | N4      | max | 1.623  | 3  | 26.828  | 8  | 1.617  | 5  | 11.792    | 5  | 0.125     | 10 | 11.024    | 7  |
| 6          |         | min | -1.342 | 23 | -18.626 | 20 | -1.345 | 9  | -11.051   | 9  | -0.115    | 22 | -11.831   | 3  |
| 7          | N3      | max | 1.344  | 3  | 26.963  | 10 | 1.622  | 5  | 11.817    | 5  | 0.131     | 4  | 11.796    | 7  |
| 8          |         | min | -1.618 | 7  | -18.545 | 22 | -1.342 | 25 | -11.028   | 9  | -0.11     | 24 | -11.057   | 3  |
| 9          | N11     | max | -0.009 | 19 | 3.405   | 12 | 0.07   | 12 | 0         | 26 | 0         | 26 | 0         | 26 |
| 10         |         | min | -0.099 | 7  | 1.074   | 24 | -0.078 | 25 | 0         | 1  | 0         | 1  | 0         | 1  |
| 11         | N12     | max | 0.099  | 3  | 3.37    | 14 | 0.074  | 14 | 0         | 26 | 0         | 26 | 0         | 26 |
| 12         |         | min | 0.01   | 23 | 1.094   | 26 | -0.073 | 25 | 0         | 1  | 0         | 1  | 0         | 1  |
| 13         | N5      | max | 0.078  | 19 | 3.401   | 14 | -0.009 | 21 | 0         | 26 | 0         | 26 | 0         | 26 |
| 14         |         | min | -0.07  | 14 | 1.07    | 26 | -0.099 | 9  | 0         | 1  | 0         | 1  | 0         | 1  |
| 15         | N6      | max | 0.073  | 19 | 3.44    | 16 | 0.099  | 5  | 0         | 26 | 0         | 26 | 0         | 26 |
| 16         |         | min | -0.076 | 16 | 1.093   | 20 | 0.01   | 25 | 0         | 1  | 0         | 1  | 0         | 1  |
| 17         | N10     | max | 0.099  | 3  | 3.33    | 16 | 0.078  | 21 | 0         | 26 | 0         | 26 | 0         | 26 |
| 18         |         | min | 0.009  | 23 | 1.072   | 20 | -0.068 | 16 | 0         | 1  | 0         | 1  | 0         | 1  |
| 19         | N9      | max | -0.01  | 19 | 3.375   | 18 | 0.073  | 21 | 0         | 26 | 0         | 26 | 0         | 26 |
| 20         |         | min | -0.099 | 7  | 1.095   | 22 | -0.074 | 18 | 0         | 1  | 0         | 1  | 0         | 1  |
| 21         | N8      | max | 0.07   | 18 | 3.406   | 18 | 0.099  | 5  | 0         | 26 | 0         | 26 | 0         | 26 |
| 22         |         | min | -0.078 | 23 | 1.075   | 22 | 0.009  | 25 | 0         | 1  | 0         | 1  | 0         | 1  |
| 23         | N7      | max | 0.074  | 12 | 3.38    | 12 | -0.01  | 21 | 0         | 26 | 0         | 26 | 0         | 26 |
| 24         |         | min | -0.073 | 23 | 1.097   | 24 | -0.099 | 9  | 0         | 1  | 0         | 1  | 0         | 1  |
| 25         | Totals: | max | 6.3    | 3  | 49.087  | 2  | 6.298  | 5  |           |    |           |    |           |    |
| 26         |         | min | -6.3   | 7  | 25.438  | 26 | -6.298 | 9  |           |    |           |    |           |    |

#### Envelope AISC 15TH (360-16): ASD Member Steel Code Checks

| Member | Shape | Code Check      | Loc [ft] | LC     | Shear Check | Loc [ft] | Dir    | LC | Pnc/om [k] | Pnt/om [k] | Mnyy/om [k-ft] | Mnzz/om [k-ft] | Cb    | Eqn    |
|--------|-------|-----------------|----------|--------|-------------|----------|--------|----|------------|------------|----------------|----------------|-------|--------|
| 1      | MP-26 | PIPE 2.0NOMINAL | 0.407    | 8.438  | 4           | 0.001    | 8.438  | 10 | 2.462      | 22.52      | 1.329          | 1.329          | 1     | H1-1a  |
| 2      | MP-21 | PIPE 2.0NOMINAL | 0.396    | 8.438  | 6           | 0.001    | 8.438  | 8  | 2.462      | 22.52      | 1.329          | 1.329          | 1     | H1-1a  |
| 3      | M5    | HSS6X6X6        | 0.394    | 0      | 4           | 0.019    | 10.861 | y  | 7          | 18.197     | 190.635        | 33.114         | 2.016 | H1-1a  |
| 4      | M8    | HSS6X6X6        | 0.383    | 0      | 10          | 0.019    | 10.861 | y  | 7          | 18.197     | 190.635        | 33.114         | 2.032 | H1-1a  |
| 5      | M6    | HSS6X6X6        | 0.38     | 0      | 6           | 0.019    | 10.861 | y  | 3          | 18.197     | 190.635        | 33.114         | 2.06  | H1-1a  |
| 6      | M7    | HSS6X6X6        | 0.377    | 0      | 8           | 0.019    | 10.861 | y  | 3          | 18.197     | 190.635        | 33.114         | 2.051 | H1-1a  |
| 7      | MP-24 | PIPE 2.0NOMINAL | 0.37     | 8.438  | 10          | 0.001    | 8.438  | 19 | 2.462      | 22.52      | 1.329          | 1.329          | 1     | H1-1a  |
| 8      | MP-25 | PIPE 2.0NOMINAL | 0.369    | 8.438  | 10          | 0.001    | 8.438  | 19 | 2.462      | 22.52      | 1.329          | 1.329          | 1     | H1-1a  |
| 9      | MP-22 | PIPE 2.0NOMINAL | 0.368    | 8.438  | 8           | 0.001    | 8.438  | 7  | 2.462      | 22.52      | 1.329          | 1.329          | 1     | H1-1a  |
| 10     | MP-23 | PIPE 2.0NOMINAL | 0.363    | 8.438  | 8           | 0.001    | 8.438  | 7  | 2.462      | 22.52      | 1.329          | 1.329          | 1     | H1-1a  |
| 11     | MP-10 | PIPE 2.0NOMINAL | 0.307    | 9.516  | 8           | 0.002    | 9.516  | 9  | 1.809      | 22.52      | 1.329          | 1.329          | 1     | H1-1a  |
| 12     | MP-1  | PIPE 2.0NOMINAL | 0.222    | 9.516  | 10          | 0.002    | 9.516  | 9  | 1.809      | 22.52      | 1.329          | 1.329          | 1     | H1-1a  |
| 13     | MP-5  | PIPE 2.0NOMINAL | 0.222    | 9.516  | 4           | 0.002    | 9.516  | 9  | 1.809      | 22.52      | 1.329          | 1.329          | 1     | H1-1a  |
| 14     | MP-6  | PIPE 2.0NOMINAL | 0.217    | 9.516  | 6           | 0.002    | 9.516  | 5  | 1.809      | 22.52      | 1.329          | 1.329          | 1     | H1-1a  |
| 15     | M103  | L4X4X4          | 0.215    | 0      | 7           | 0.044    | 0.893  | y  | 7          | 33.226     | 41.605         | 2.088          | 1.5   | H2-1   |
| 16     | M4    | HSS10X10X6      | 0.209    | 0      | 10          | 0.019    | 14.974 | z  | 5          | 261.545    | 331.976        | 98.922         | 2.443 | H1-1b  |
| 17     | M1    | HSS10X10X6      | 0.209    | 0      | 4           | 0.019    | 15.625 | y  | 7          | 261.545    | 331.976        | 98.922         | 2.442 | H1-1b  |
| 18     | M3    | HSS10X10X6      | 0.209    | 0      | 8           | 0.019    | 15.625 | y  | 3          | 261.545    | 331.976        | 98.922         | 2.442 | H1-1b  |
| 19     | M2    | HSS10X10X6      | 0.209    | 0      | 6           | 0.019    | 14.974 | z  | 9          | 261.545    | 331.976        | 98.922         | 2.446 | H1-1b  |
| 20     | MP-20 | PIPE 2.0NOMINAL | 0.191    | 10.172 | 3           | 0.002    | 10.172 | 4  | 1.658      | 22.52      | 1.329          | 1.329          | 1     | H1-1b* |
| 21     | M104  | L4X4X4          | 0.19     | 0      | 4           | 0.045    | 0.893  | y  | 3          | 33.226     | 41.605         | 2.088          | 1.5   | H2-1   |
| 22     | MP-16 | PIPE 2.0NOMINAL | 0.189    | 10.172 | 3           | 0.002    | 10.172 | 10 | 1.658      | 22.52      | 1.329          | 1.329          | 1     | H1-1b* |
| 23     | MP-15 | PIPE 2.0NOMINAL | 0.181    | 10.172 | 7           | 0.002    | 10.172 | 8  | 1.658      | 22.52      | 1.329          | 1.329          | 1     | H1-1b* |
| 24     | MP-11 | PIPE 2.0NOMINAL | 0.178    | 10.172 | 7           | 0.001    | 10.172 | 6  | 1.658      | 22.52      | 1.329          | 1.329          | 1     | H1-1b* |
| 25     | M234  | L11/2X11/2X3    | 0.176    | 0.974  | 3           | 0.002    | 0.974  | z  | 9          | 0.354      | 13.254         | 0.227          | 1.5   | H2-1   |
| 26     | M232  | L11/2X11/2X3    | 0.164    | 0.974  | 7           | 0.002    | 0.974  | z  | 5          | 0.354      | 13.254         | 0.227          | 1.5   | H2-1   |
| 27     | M60   | L4X4X4          | 0.162    | 0      | 3           | 0.033    | 0.893  | z  | 3          | 33.226     | 41.605         | 2.088          | 1.5   | H2-1   |
| 28     | M51   | L4X4X4          | 0.162    | 0      | 3           | 0.033    | 0      | y  | 4          | 33.226     | 41.605         | 2.088          | 1.5   | H2-1   |
| 29     | M112  | L4X4X4          | 0.159    | 0      | 7           | 0.034    | 0.893  | z  | 7          | 33.226     | 41.605         | 2.088          | 1.5   | H2-1   |
| 30     | M113  | L4X4X4          | 0.142    | 0      | 10          | 0.035    | 0.893  | z  | 23         | 33.226     | 41.605         | 2.088          | 1.5   | H2-1   |



Company : TEP  
Designer : PRS  
Job Number : TEP No. 309257.1151610  
Model Name : Jackson DT (BU 831885)

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**Envelope AISC 15TH (360-16): ASD Member Steel Code Checks (Continued)**

| Member | Shape | Code            | CheckLoc[ft] | LC    | Shear | CheckLoc[ft] | Dir   | LC   | Pnc/om [k] | Pnt/om [k] | Mnyy/om [k-ft] | Mnzz/om [k-ft] | Cb    | Eqn    |
|--------|-------|-----------------|--------------|-------|-------|--------------|-------|------|------------|------------|----------------|----------------|-------|--------|
| 31     | MP-8  | PIPE 2.0NOMINAL | 0.141        | 8.438 | 3     | 0.004        | 8.438 | 5    | 2.462      | 22.52      | 1.329          | 1.329          | 1     | H1-1b* |
| 32     | MP-3  | PIPE 2.0NOMINAL | 0.141        | 8.438 | 7     | 0.004        | 8.438 | 9    | 2.462      | 22.52      | 1.329          | 1.329          | 1     | H1-1b* |
| 33     | M61   | L4X4X4          | 0.138        | 0     | 6     | 0.035        | 0.893 | z 19 | 33.226     | 41.605     | 2.088          | 4.468          | 1.5   | H2-1   |
| 34     | M52   | L4X4X4          | 0.138        | 0     | 8     | 0.035        | 0.893 | y 19 | 33.226     | 41.605     | 2.088          | 4.468          | 1.5   | H2-1   |
| 35     | M101  | L4X4X4          | 0.133        | 0     | 3     | 0.031        | 0.893 | y 4  | 33.226     | 41.605     | 2.088          | 4.468          | 1.5   | H2-1   |
| 36     | M110  | L4X4X4          | 0.132        | 0     | 3     | 0.031        | 0.893 | z 10 | 33.226     | 41.605     | 2.088          | 4.468          | 1.5   | H2-1   |
| 37     | M59   | L4X4X4          | 0.128        | 0     | 3     | 0.026        | 0.893 | z 3  | 33.226     | 41.605     | 2.088          | 4.468          | 1.5   | H2-1   |
| 38     | M49   | L4X4X4          | 0.127        | 0     | 7     | 0.03         | 0.893 | y 8  | 33.226     | 41.605     | 2.088          | 4.468          | 1.5   | H2-1   |
| 39     | M50   | L4X4X4          | 0.126        | 0     | 3     | 0.026        | 0.893 | y 3  | 33.226     | 41.605     | 2.088          | 4.468          | 1.5   | H2-1   |
| 40     | M58   | L4X4X4          | 0.125        | 0     | 7     | 0.029        | 0.893 | z 6  | 33.226     | 41.605     | 2.088          | 4.468          | 1.5   | H2-1   |
| 41     | M111  | L4X4X4          | 0.121        | 0     | 7     | 0.024        | 0.893 | z 7  | 33.226     | 41.605     | 2.088          | 4.468          | 1.5   | H2-1   |
| 42     | M102  | L4X4X4          | 0.12         | 0     | 7     | 0.024        | 0.893 | y 6  | 33.226     | 41.605     | 2.088          | 4.468          | 1.5   | H2-1   |
| 43     | M10   | W18X35          | 0.099        | 0     | 9     | 0.08         | 3.625 | y 9  | 261.947    | 308.383    | 20.11          | 165.918        | 2.263 | H1-1b  |
| 44     | M12   | W18X35          | 0.099        | 0     | 5     | 0.08         | 3.625 | y 5  | 261.947    | 308.383    | 20.11          | 165.918        | 2.263 | H1-1b  |
| 45     | M9    | W18X35          | 0.098        | 3.625 | 7     | 0.081        | 3.625 | y 7  | 261.947    | 308.383    | 20.11          | 165.918        | 2.26  | H1-1b  |
| 46     | M11   | W18X35          | 0.098        | 3.625 | 3     | 0.081        | 3.625 | y 3  | 261.947    | 308.383    | 20.11          | 165.918        | 2.26  | H1-1b  |
| 47     | M18   | W12X22          | 0.092        | 0     | 10    | 0.04         | 3.418 | y 10 | 161.458    | 194.012    | 9.132          | 73.104         | 2.184 | H1-1b  |
| 48     | M17   | W12X22          | 0.092        | 0     | 8     | 0.04         | 3.364 | y 8  | 161.458    | 194.012    | 9.132          | 73.104         | 2.199 | H1-1b  |
| 49     | M235  | L11/2X11/2X3    | 0.072        | 4.526 | 10    | 0.003        | 4.526 | z 3  | 0.354      | 13.254     | 0.227          | 0.434          | 1.5   | H2-1   |
| 50     | M46   | L4X4X4          | 0.071        | 0     | 3     | 0.009        | 0     | y 3  | 33.226     | 41.605     | 2.088          | 4.468          | 1.5   | H2-1   |
| 51     | M98   | L4X4X4          | 0.071        | 0     | 7     | 0.009        | 0     | y 7  | 33.226     | 41.605     | 2.088          | 4.468          | 1.5   | H2-1   |
| 52     | M107  | L4X4X4          | 0.071        | 0     | 7     | 0.009        | 0     | z 7  | 33.226     | 41.605     | 2.088          | 4.468          | 1.5   | H2-1   |
| 53     | M55   | L4X4X4          | 0.071        | 0     | 3     | 0.009        | 0     | z 3  | 33.226     | 41.605     | 2.088          | 4.468          | 1.5   | H2-1   |
| 54     | M19   | W12X22          | 0.066        | 0     | 3     | 0.02         | 1.121 | y 3  | 161.458    | 194.012    | 9.132          | 73.104         | 2.469 | H1-1b  |
| 55     | M15   | W18X35          | 0.066        | 3.625 | 3     | 0.05         | 3.625 | y 3  | 261.947    | 308.383    | 20.11          | 165.918        | 2.265 | H1-1b  |
| 56     | M13   | W18X35          | 0.066        | 3.625 | 7     | 0.049        | 3.625 | y 7  | 261.947    | 308.383    | 20.11          | 165.918        | 2.264 | H1-1b  |
| 57     | M14   | W18X35          | 0.065        | 0     | 5     | 0.049        | 3.625 | y 9  | 261.947    | 308.383    | 20.11          | 165.918        | 2.261 | H1-1b  |
| 58     | M16   | W18X35          | 0.065        | 0     | 9     | 0.049        | 0     | y 9  | 261.947    | 308.383    | 20.11          | 165.918        | 2.262 | H1-1b  |
| 59     | M20   | W12X22          | 0.064        | 5.127 | 3     | 0.02         | 4.005 | y 3  | 161.458    | 194.012    | 9.132          | 73.104         | 2.583 | H1-1b  |
| 60     | M233  | L11/2X11/2X3    | 0.064        | 4.526 | 6     | 0.003        | 4.526 | z 7  | 0.354      | 13.254     | 0.227          | 0.434          | 1.5   | H2-1   |
| 61     | MP-19 | PIPE 2.0NOMINAL | 0.054        | 8.438 | 18    | 0.004        | 8.438 | 5    | 2.462      | 22.52      | 1.329          | 1.329          | 1     | H1-1b* |
| 62     | MP-17 | PIPE 2.0NOMINAL | 0.054        | 8.438 | 4     | 0.003        | 8.438 | 9    | 2.462      | 22.52      | 1.329          | 1.329          | 1     | H1-1b* |
| 63     | MP-12 | PIPE 2.0NOMINAL | 0.054        | 8.438 | 16    | 0.003        | 8.438 | 5    | 2.462      | 22.52      | 1.329          | 1.329          | 1     | H1-1b* |
| 64     | MP-14 | PIPE 2.0NOMINAL | 0.054        | 8.438 | 14    | 0.003        | 8.438 | 9    | 2.462      | 22.52      | 1.329          | 1.329          | 1     | H1-1b* |
| 65     | M115  | L4X4X4          | 0.053        | 0     | 4     | 0.011        | 0     | y 3  | 33.226     | 41.605     | 2.088          | 4.468          | 1.5   | H2-1   |
| 66     | M79   | L4X4X4          | 0.053        | 0     | 8     | 0.011        | 0     | y 7  | 33.226     | 41.605     | 2.088          | 4.468          | 1.5   | H2-1   |
| 67     | M97   | L4X4X4          | 0.053        | 0     | 6     | 0.011        | 0     | y 5  | 33.226     | 41.605     | 2.088          | 4.468          | 1.5   | H2-1   |
| 68     | M45   | L4X4X4          | 0.053        | 0     | 10    | 0.011        | 0     | y 9  | 33.226     | 41.605     | 2.088          | 4.468          | 1.5   | H2-1   |
| 69     | M124A | L4X4X4          | 0.053        | 0     | 6     | 0.011        | 0     | z 7  | 33.226     | 41.605     | 2.088          | 4.468          | 1.5   | H2-1   |
| 70     | M88   | L4X4X4          | 0.053        | 0     | 10    | 0.011        | 0     | z 3  | 33.226     | 41.605     | 2.088          | 4.468          | 1.5   | H2-1   |
| 71     | M54   | L4X4X4          | 0.053        | 0     | 4     | 0.011        | 0     | z 5  | 33.226     | 41.605     | 2.088          | 4.468          | 1.5   | H2-1   |
| 72     | M106  | L4X4X4          | 0.053        | 0     | 8     | 0.011        | 0     | z 9  | 33.226     | 41.605     | 2.088          | 4.468          | 1.5   | H2-1   |
| 73     | M93   | L4X4X4          | 0.053        | 0     | 9     | 0.008        | 0     | z 9  | 33.226     | 41.605     | 2.088          | 4.468          | 1.5   | H2-1   |
| 74     | M94   | L4X4X4          | 0.052        | 0     | 9     | 0.008        | 0     | z 9  | 33.226     | 41.605     | 2.088          | 4.468          | 1.5   | H2-1   |
| 75     | M84   | L4X4X4          | 0.052        | 0     | 9     | 0.008        | 0     | y 9  | 33.226     | 41.605     | 2.088          | 4.468          | 1.5   | H2-1   |
| 76     | M120A | L4X4X4          | 0.052        | 0     | 5     | 0.008        | 0     | y 5  | 33.226     | 41.605     | 2.088          | 4.468          | 1.5   | H2-1   |
| 77     | M130A | L4X4X4          | 0.052        | 0     | 5     | 0.007        | 0     | z 5  | 33.226     | 41.605     | 2.088          | 4.468          | 1.5   | H2-1   |
| 78     | M129B | L4X4X4          | 0.052        | 0     | 5     | 0.008        | 0     | z 5  | 33.226     | 41.605     | 2.088          | 4.468          | 1.5   | H2-1   |
| 79     | M85   | L4X4X4          | 0.052        | 0     | 9     | 0.007        | 0     | y 9  | 33.226     | 41.605     | 2.088          | 4.468          | 1.5   | H2-1   |
| 80     | M121A | L4X4X4          | 0.051        | 0     | 5     | 0.007        | 0     | y 5  | 33.226     | 41.605     | 2.088          | 4.468          | 1.5   | H2-1   |
| 81     | M80   | L4X4X4          | 0.05         | 0     | 7     | 0.01         | 0     | y 7  | 33.226     | 41.605     | 2.088          | 4.468          | 1.5   | H2-1   |
| 82     | M89   | L4X4X4          | 0.05         | 0     | 3     | 0.01         | 0     | z 3  | 33.226     | 41.605     | 2.088          | 4.468          | 1.5   | H2-1   |
| 83     | M116A | L4X4X4          | 0.05         | 0     | 3     | 0.01         | 0     | y 3  | 33.226     | 41.605     | 2.088          | 4.468          | 1.5   | H2-1   |
| 84     | M125A | L4X4X4          | 0.05         | 0     | 7     | 0.01         | 0     | z 7  | 33.226     | 41.605     | 2.088          | 4.468          | 1.5   | H2-1   |
| 85     | MP-7  | PIPE 2.0NOMINAL | 0.049        | 8.438 | 9     | 0.002        | 8.438 | 5    | 2.462      | 22.52      | 1.329          | 1.329          | 1     | H1-1b  |



Company : TEP  
 Designer : PRS  
 Job Number : TEP No. 309257.1151610  
 Model Name : Jackson DT (BU 831885)

9/8/2025  
 11:03:44 AM  
 Checked By : SMS

### Envelope AISC 15TH (360-16): ASD Member Steel Code Checks (Continued)

| Member | Shape | Code Check      | Loc[ft] | LC     | Shear Check | Loc[ft] | Dir   | LC | Pn/om [k] | Pnt/om [k] | Mnyy/om [k-ft] | Mnzz/om [k-ft] | Cb     | Eqn          |
|--------|-------|-----------------|---------|--------|-------------|---------|-------|----|-----------|------------|----------------|----------------|--------|--------------|
| 86     | MP-2  | PIPE 2.0NOMINAL | 0.049   | 8.438  | 5           | 0.002   | 8.438 | 9  | 2.462     | 22.52      | 1.329          | 1.329          | 1      | H1-1b        |
| 87     | MP-4  | PIPE 2.0NOMINAL | 0.049   | 8.438  | 9           | 0.002   | 8.438 | 9  | 2.462     | 22.52      | 1.329          | 1.329          | 1      | H1-1b        |
| 88     | MP-9  | PIPE 2.0NOMINAL | 0.048   | 8.438  | 5           | 0.002   | 8.438 | 5  | 2.462     | 22.52      | 1.329          | 1.329          | 1      | H1-1b        |
| 89     | M95   | L4X4X4          | 0.044   | 0      | 10          | 0.014   | 1.34  | y  | 5         | 33.226     | 41.605         | 2.088          | 4.468  | 1.5 H2-1     |
| 90     | M131A | L4X4X4          | 0.04    | 0      | 6           | 0.017   | 1.34  | y  | 9         | 33.226     | 41.605         | 2.088          | 4.468  | 1.5 H2-1     |
| 91     | M122A | L4X4X4          | 0.039   | 0      | 4           | 0.014   | 1.34  | y  | 4         | 33.226     | 41.605         | 2.088          | 4.468  | 1.5 H2-1     |
| 92     | M86   | L4X4X4          | 0.039   | 0      | 8           | 0.015   | 1.34  | y  | 8         | 33.226     | 41.605         | 2.088          | 4.468  | 1.5 H2-1     |
| 93     | MP-18 | PIPE 2.0NOMINAL | 0.039   | 8.438  | 5           | 0.007   | 8.438 | 5  | 2.462     | 22.52      | 1.329          | 1.329          | 1      | H1-1b        |
| 94     | MP-13 | PIPE 2.0NOMINAL | 0.039   | 8.438  | 9           | 0.007   | 8.438 | 9  | 2.462     | 22.52      | 1.329          | 1.329          | 1      | H1-1b        |
| 95     | M228  | L11/2X11/2X3    | 0.035   | 0      | 3           | 0.002   | 2     | z  | 18        | 10.181     | 13.254         | 0.227          | 0.503  | 1.119 H2-1   |
| 96     | M230  | L11/2X11/2X3    | 0.033   | 0      | 7           | 0.002   | 0     | z  | 16        | 10.181     | 13.254         | 0.227          | 0.504  | 1.138 H2-1   |
| 97     | M229  | L11/2X11/2X3    | 0.027   | 1      | 9           | 0.002   | 0     | z  | 12        | 10.181     | 13.254         | 0.227          | 0.504  | 1.134 H2-1   |
| 98     | M231  | L11/2X11/2X3    | 0.024   | 1.083  | 5           | 0.002   | 2     | z  | 5         | 10.181     | 13.254         | 0.227          | 0.503  | 1.118 H2-1   |
| 99     | M82   | L4X4X4          | 0.024   | 0      | 7           | 0.004   | 0     | y  | 7         | 33.226     | 41.605         | 2.088          | 4.468  | 1.5 H2-1     |
| 100    | M91   | L4X4X4          | 0.024   | 0      | 3           | 0.004   | 0     | z  | 3         | 33.226     | 41.605         | 2.088          | 4.468  | 1.5 H2-1     |
| 101    | M118A | L4X4X4          | 0.024   | 0      | 3           | 0.004   | 0     | y  | 3         | 33.226     | 41.605         | 2.088          | 4.468  | 1.5 H2-1     |
| 102    | M127A | L4X4X4          | 0.024   | 0      | 7           | 0.004   | 0     | z  | 7         | 33.226     | 41.605         | 2.088          | 4.468  | 1.5 H2-1     |
| 103    | M109  | L4X4X4          | 0.023   | 0      | 8           | 0.004   | 0     | z  | 9         | 33.226     | 41.605         | 2.088          | 4.468  | 1.5 H2-1     |
| 104    | M48   | L4X4X4          | 0.023   | 0      | 10          | 0.004   | 0     | y  | 9         | 33.226     | 41.605         | 2.088          | 4.468  | 1.5 H2-1     |
| 105    | M100  | L4X4X4          | 0.023   | 0      | 6           | 0.004   | 0     | y  | 5         | 33.226     | 41.605         | 2.088          | 4.468  | 1.5 H2-1     |
| 106    | M57   | L4X4X4          | 0.023   | 0      | 4           | 0.004   | 0     | z  | 5         | 33.226     | 41.605         | 2.088          | 4.468  | 1.5 H2-1     |
| 107    | M22   | L3X3X5          | 0.019   | 1.813  | 5           | 0.004   | 3.625 | z  | 7         | 28.623     | 38.371         | 1.34           | 2.985  | 1.136 H2-1   |
| 108    | M21   | L3X3X5          | 0.016   | 1.813  | 10          | 0.005   | 3.625 | z  | 5         | 28.623     | 38.371         | 1.34           | 2.985  | 1.136 H2-1   |
| 109    | M23   | L3X3X5          | 0.016   | 1.813  | 8           | 0.005   | 3.625 | z  | 9         | 28.623     | 38.371         | 1.34           | 2.985  | 1.136 H2-1   |
| 110    | M114  | L4X4X4          | 0.016   | 0      | 4           | 0.003   | 0     | y  | 6         | 33.226     | 41.605         | 2.088          | 4.468  | 1.5 H2-1     |
| 111    | M78   | L4X4X4          | 0.016   | 0      | 8           | 0.003   | 0     | y  | 10        | 33.226     | 41.605         | 2.088          | 4.468  | 1.5 H2-1     |
| 112    | M96   | L4X4X4          | 0.016   | 0      | 6           | 0.003   | 0     | y  | 8         | 33.226     | 41.605         | 2.088          | 4.468  | 1.5 H2-1     |
| 113    | M44   | L4X4X4          | 0.016   | 0      | 10          | 0.003   | 0     | y  | 4         | 33.226     | 41.605         | 2.088          | 4.468  | 1.5 H2-1     |
| 114    | M123A | L4X4X4          | 0.016   | 0      | 6           | 0.003   | 0     | z  | 4         | 33.226     | 41.605         | 2.088          | 4.468  | 1.5 H2-1     |
| 115    | M87   | L4X4X4          | 0.016   | 0      | 10          | 0.003   | 0     | z  | 8         | 33.226     | 41.605         | 2.088          | 4.468  | 1.5 H2-1     |
| 116    | M105  | L4X4X4          | 0.016   | 0      | 8           | 0.003   | 0     | z  | 6         | 33.226     | 41.605         | 2.088          | 4.468  | 1.5 H2-1     |
| 117    | M53   | L4X4X4          | 0.016   | 0      | 4           | 0.003   | 0     | z  | 10        | 33.226     | 41.605         | 2.088          | 4.468  | 1.5 H2-1     |
| 118    | M117A | L4X4X4          | 0.014   | 0      | 5           | 0.004   | 0     | y  | 7         | 33.226     | 41.605         | 2.088          | 4.468  | 1.5 H2-1     |
| 119    | M126  | L4X4X4          | 0.014   | 0      | 5           | 0.004   | 0     | z  | 3         | 33.226     | 41.605         | 2.088          | 4.468  | 1.5 H2-1     |
| 120    | M81   | L4X4X4          | 0.014   | 0      | 9           | 0.004   | 0     | y  | 3         | 33.226     | 41.605         | 2.088          | 4.468  | 1.5 H2-1     |
| 121    | M90   | L4X4X4          | 0.014   | 0      | 9           | 0.004   | 0     | z  | 7         | 33.226     | 41.605         | 2.088          | 4.468  | 1.5 H2-1     |
| 122    | M128A | L4X4X4          | 0.009   | 0      | 5           | 0.006   | 0     | z  | 5         | 33.226     | 41.605         | 2.088          | 4.468  | 1.5 H2-1     |
| 123    | M119A | L4X4X4          | 0.009   | 0      | 5           | 0.006   | 0     | y  | 5         | 33.226     | 41.605         | 2.088          | 4.468  | 1.5 H2-1     |
| 124    | M83   | L4X4X4          | 0.009   | 0      | 9           | 0.006   | 0     | y  | 9         | 33.226     | 41.605         | 2.088          | 4.468  | 1.5 H2-1     |
| 125    | M92   | L4X4X4          | 0.009   | 0      | 9           | 0.006   | 0     | z  | 9         | 33.226     | 41.605         | 2.088          | 4.468  | 1.5 H2-1     |
| 126    | M47   | L4X4X4          | 0.008   | 0      | 10          | 0.004   | 0     | y  | 3         | 33.226     | 41.605         | 2.088          | 4.468  | 1.5 H2-1     |
| 127    | M108  | L4X4X4          | 0.008   | 0      | 8           | 0.004   | 0     | z  | 7         | 33.226     | 41.605         | 2.088          | 4.468  | 1.5 H2-1     |
| 128    | M99   | L4X4X4          | 0.008   | 0      | 6           | 0.004   | 0     | y  | 7         | 33.226     | 41.605         | 2.088          | 4.468  | 1.5 H2-1     |
| 129    | M56   | L4X4X4          | 0.008   | 0      | 4           | 0.004   | 0     | z  | 3         | 33.226     | 41.605         | 2.088          | 4.468  | 1.5 H2-1     |
| 130    | M224  | HSS8X8X6        | 0.004   | 14.708 | 2           | 0       | 0.46  | z  | 10        | 214.362    | 261.557        | 61.617         | 61.617 | 1.361 H1-1b* |
| 131    | M125  | W12X22          | 0       | 3.625  | 9           | 0.001   | 0     | y  | 3         | 157.426    | 194.012        | 9.132          | 73.104 | 1.158 H1-1b* |
| 132    | M124  | W12X22          | 0       | 3.625  | 25          | 0.001   | 3.625 | y  | 7         | 157.426    | 194.012        | 9.132          | 73.104 | 1.136 H1-1b* |
| 133    | M227  | HSS8X8X6        | 0       | 2.885  | 26          | 0.001   | 1.443 | y  | 18        | 252.871    | 261.557        | 61.617         | 61.617 | 1.563 H1-1b* |

### Envelope AISI S100-16: ASD Member Cold Formed Steel Code Checks

| Member | Shape | Code Check     | Loc[ft] | LC    | Shear Check | Loc[ft] | Dir   | LC | Pn/om [k] | Tn/om [k] | Mnyy/om [k-ft] | Mnzz/om [k-ft] | Vny/om [k] | Vnz/om [k] | Cb  | Eqn          |
|--------|-------|----------------|---------|-------|-------------|---------|-------|----|-----------|-----------|----------------|----------------|------------|------------|-----|--------------|
| 1      | M307  | Unistrut 1.625 | 0.491   | 0.53  | 9           | 0.201   | 4.095 | y  | 5         | 3.68      | 9.167          | 0.184          | 0.408      | 1.35       | 2.7 | 1.605 H1.2-1 |
| 2      | M322  | Unistrut 1.625 | 0.489   | 4.095 | 9           | 0.201   | 4.095 | y  | 9         | 3.68      | 9.167          | 0.236          | 0.423      | 1.35       | 2.7 | 1.606 F3.1-1 |
| 3      | M349  | Unistrut 1.625 | 0.314   | 0.53  | 4           | 0.058   | 4.095 | y  | 8         | 3.68      | 9.167          | 0.184          | 0.408      | 1.35       | 2.7 | 2.01 H1.2-1  |
| 4      | M334  | Unistrut 1.625 | 0.31    | 0.53  | 8           | 0.059   | 4.095 | y  | 4         | 3.68      | 9.167          | 0.184          | 0.408      | 1.35       | 2.7 | 2.01 H1.2-1  |



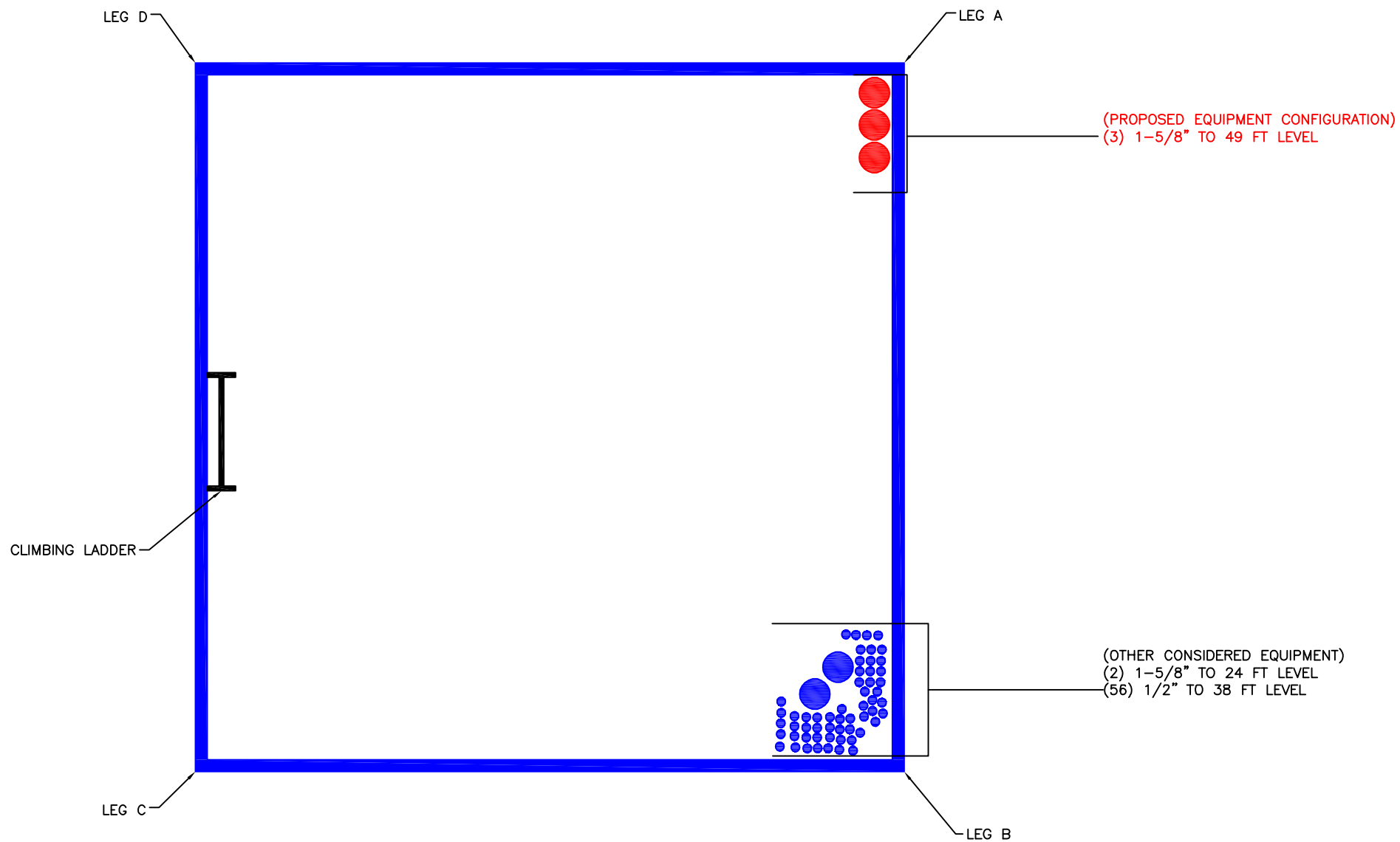
Company : TEP  
Designer : PRS  
Job Number : TEP No. 309257.1151610  
Model Name : Jackson DT (BU 831885)

9/8/2025  
11:03:44 AM  
Checked By : SMS

**Envelope AISI S100-16: ASD Member Cold Formed Steel Code Checks (Continued)**

| Member | Shape | Code           | Check | Loc[ft] | LC | Shear | Check | Loc[ft] | Dir | LC   | Pn/Om[k] | Tn/Om[k] | Mnyy/Om[k-ft] | Mnzz/Om[k-ft] | Vny/Om[k] | Vnz/Om[k] | Cb     | Eqn |
|--------|-------|----------------|-------|---------|----|-------|-------|---------|-----|------|----------|----------|---------------|---------------|-----------|-----------|--------|-----|
| 5      | M337  | Unistrut 1.625 | 0.253 | 4.095   | 4  | 0.144 | 0.53  | y       | 9   | 3.68 | 9.167    | 0.194    | 0.408         | 1.35          | 2.7       | 1.888     | H1.2-1 |     |
| 6      | M352  | Unistrut 1.625 | 0.252 | 0.53    | 6  | 0.144 | 0.53  | y       | 5   | 3.68 | 9.167    | 0.194    | 0.408         | 1.35          | 2.7       | 1.889     | H1.2-1 |     |
| 7      | M319  | Unistrut 1.625 | 0.117 | 3.806   | 9  | 0.101 | 3.806 | y       | 9   | 3.68 | 9.167    | 0.236    | 0.423         | 1.35          | 2.7       | 1.871     | F3.1-1 |     |
| 8      | M304  | Unistrut 1.625 | 0.117 | 3.806   | 5  | 0.101 | 3.806 | y       | 5   | 3.68 | 9.167    | 0.236    | 0.423         | 1.35          | 2.7       | 1.885     | F3.1-1 |     |

**APPENDIX B**  
**BASE LEVEL DRAWING**



## **APPENDIX C**

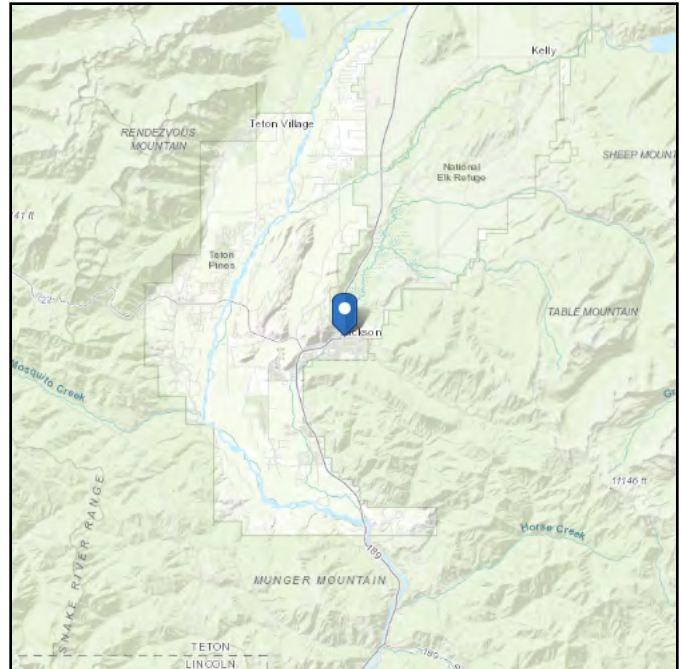
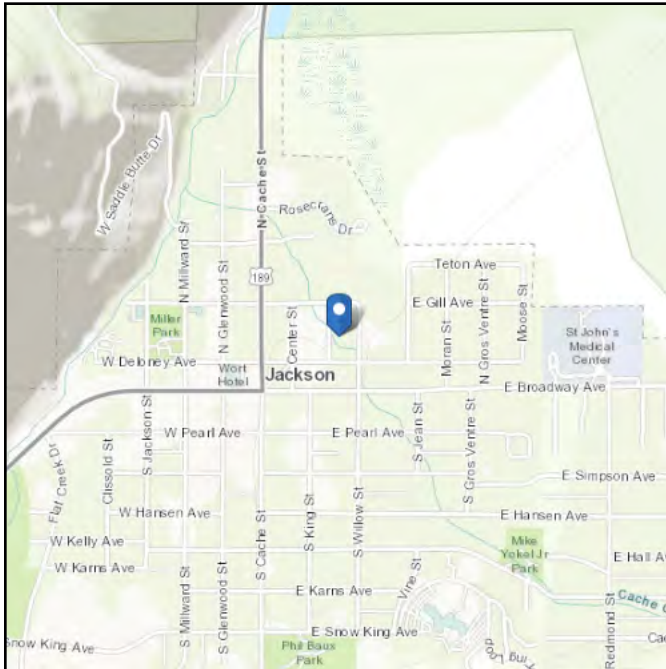
### **ADDITIONAL CALCULATIONS**

# ASCE Hazards Report

**Address:**  
No Address at This Location

**Standard:** ASCE/SEI 7-22  
**Risk Category:** II  
**Soil Class:** D - Stiff Soil

**Latitude:** 43.480986  
**Longitude:** -110.759617  
**Elevation:** 6235.0421808139945 ft (NAVD 88)



## Wind

### Results:

|                    |          |
|--------------------|----------|
| Wind Speed         | 105 Vmph |
| 10-year MRI        | 75 Vmph  |
| 25-year MRI        | 81 Vmph  |
| 50-year MRI        | 86 Vmph  |
| 100-year MRI       | 91 Vmph  |
| 300-year MRI       | 99 Vmph  |
| 700-year MRI       | 105 Vmph |
| 1,700-year MRI     | 112 Vmph |
| 3,000-year MRI     | 116 Vmph |
| 10,000-year MRI    | 126 Vmph |
| 100,000-year MRI   | 143 Vmph |
| 1,000,000-year MRI | 161 Vmph |

Data Source: ASCE/SEI 7-22, Fig. 26.5-1B and Figs. CC.2-1–CC.2-4, and Section 26.5.2  
Date Accessed: Mon Sep 08 2025



Value provided is 3-second gust wind speeds at 33 ft above ground for Exposure C Category, based on linear interpolation between contours. Wind speeds are interpolated in accordance with the 7-22 Standard. Wind speeds correspond to approximately a 7% probability of exceedance in 50 years (annual exceedance probability = 0.00143, MRI = 700 years). Values for 10-year MRI, 25-year MRI, 50-year MRI and 100-year MRI are Service Level wind speeds, all other wind speeds are Ultimate wind speeds.

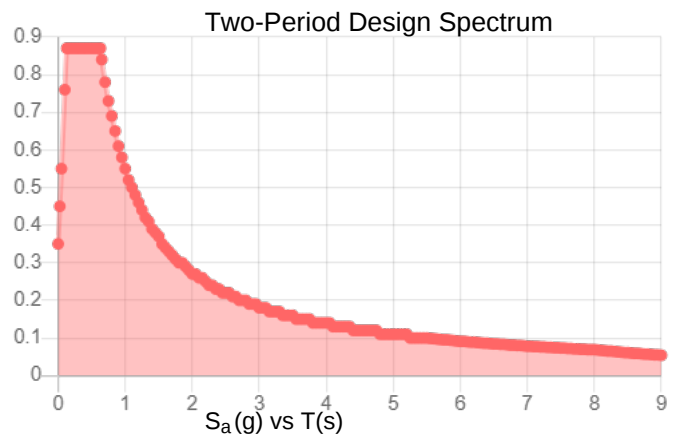
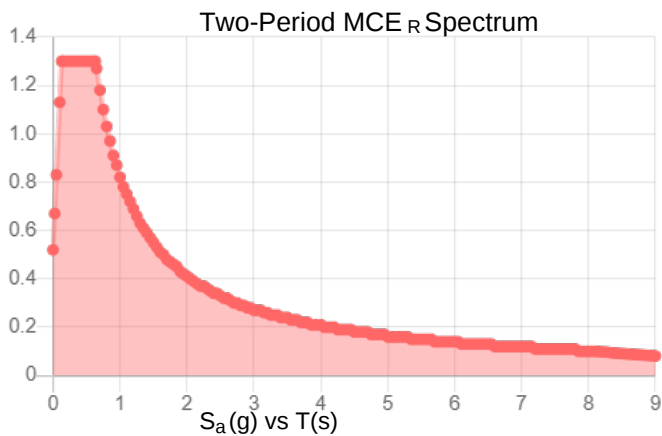
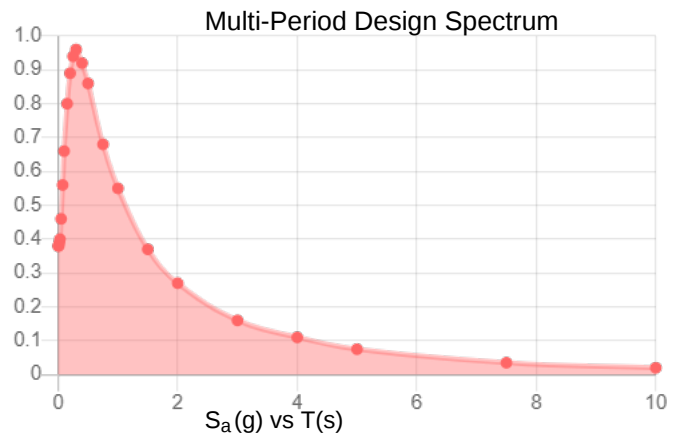
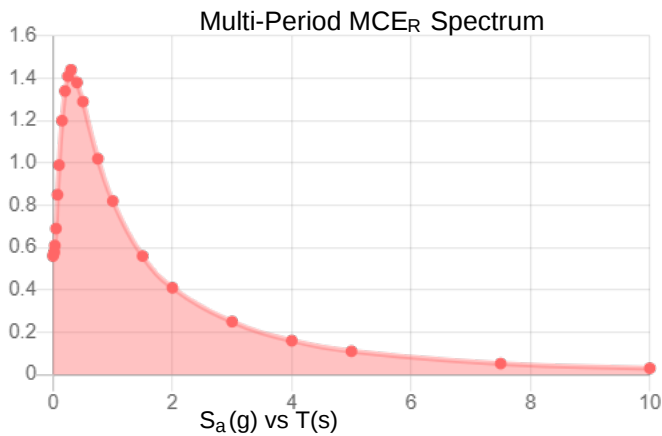
Site is not in a hurricane-prone region as defined in ASCE/SEI 7-22 Section 26.2.

**Site Soil Class:** D - Stiff Soil

**Results:**

|                    |      |                    |      |
|--------------------|------|--------------------|------|
| PGA <sub>M</sub> : | 0.52 | T <sub>L</sub> :   | 8    |
| S <sub>MS</sub> :  | 1.3  | S <sub>S</sub> :   | 1.14 |
| S <sub>M1</sub> :  | 0.82 | S <sub>1</sub> :   | 0.33 |
| S <sub>DS</sub> :  | 0.87 | V <sub>S30</sub> : | 260  |
| S <sub>D1</sub> :  | 0.55 |                    |      |

**Seismic Design Category: D**



MCE<sub>R</sub> Vertical Response Spectrum  
Vertical ground motion data has not yet been made available by USGS.

Design Vertical Response Spectrum  
Vertical ground motion data has not yet been made available by USGS.



**Data Accessed:** Mon Sep 08 2025

**Date Source:**

USGS Seismic Design Maps based on ASCE/SEI 7-22 and ASCE/SEI 7-22 Table 1.5-2. Additional data for site-specific ground motion procedures in accordance with ASCE/SEI 7-22 Ch. 21 are available from USGS.

## Ice

---

### Results:

Ice Thickness: 0.25 in.  
 Concurrent Temperature: 5 F  
 3-s Gust Speed: 59 mph

**Data Source:** Standard ASCE/SEI 7-22, Figs. 10-2 through 10-8

**Date Accessed:** Mon Sep 08 2025

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

Values provided are equivalent radial ice thicknesses due to freezing rain for 250, 500, 1,000, and 1,400-year mean recurrence intervals along with concurrent 3-s gust speeds and concurrent air temperatures. The shading indicates special icing regions, with elevations above 2,100 ft (640 m) in the east, 6,000 ft (1829 m) in the west, and 1,600 ft (488 m) in Alaska, with sparse weather station data for determining design ice loads. In these regions, as well as in regions with complex terrain causing unusual icing conditions and regions where snow or in-cloud icing results in larger loads, the mapped values should be adjusted based on a combination of local historical records and experience, reanalysis data, and numerical weather prediction systems.

## Snow

---

### Results:

Ground Snow Load,  $p_g$  : 140 lb/ft<sup>2</sup>  
 20-year MRI Value: 77.74 lb/ft<sup>2</sup>  
 Winter Wind Parameter: 0.35  
 Mapped Elevation: 6441.2 ft

**Data Source:** ASCE/SEI 7-22, Figures 7.6-1 and 7.6-2 A-D

**Date Accessed:** Mon Sep 08 2025

Values provided are ground snow loads. In areas designated "case study required," extreme local variations in ground snow loads preclude mapping at this scale. Site-specific case studies are required to establish ground snow loads at elevations not covered.

Snow load values are mapped to a 0.5 mile resolution. This resolution can create a mismatch between the mapped elevation and the site-specific elevation in topographically complex areas. Engineers should consult the local authority having jurisdiction in locations where the reported 'elevation' and 'mapped elevation' differ significantly from each other.

Ground Snow Loads for IRC only,  $p_{g(asd)}$  : 98.0 lb/ft<sup>2</sup>

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

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Jackson DT (BU 831885)

TEP No. 309257.1151610  
Analysis By: PRS 9/8/2025  
Checked By: SMS 9/8/2025

Code Revisions: 

|           |          |
|-----------|----------|
| TIA-222-I | IBC 2024 |
|-----------|----------|

Wind Inputs:

$V_{ult}$ : 105.0 mph  
Exposure: C  
Ground Elevation: 6235 ft  
 $h/w$ : 4.65

$K_{es}$ : 0.95 Annex S  
 $K_e$ : 0.798 Section 2.6.8  
 $K_{zt}$ : 1 Section 2.6.6  
 $K_d$ : 0.85 Table 2-2  
 $G_h$ : 0.85 Section 2.6.9.1,  $h < 450$  ft  
 $C_f$ : 1.30 Section 2.6.11 - Calculate  $C_f$  per Table 2-9 for fully shrouded sections

| $\alpha$ | $z_g$ |
|----------|-------|
| 9.8      | 2460  |

| $z$ (ft) | $K_z$ | $q_z$ (psf) | $q_z * G_h * C_f$ (psf) |
|----------|-------|-------------|-------------------------|
| 3.04     | 0.851 | 15.48       | 17.05                   |
| 11.00    | 0.851 | 15.48       | 17.05                   |
| 23.33    | 0.931 | 16.94       | 18.66                   |
| 36.50    | 1.021 | 18.56       | 20.44                   |
| 47.79    | 1.078 | 19.61       | 21.60                   |



Jackson DT (BU 831885)

TEP No. 309257.1151610

Analysis By: PRS 9/8/2025

Checked By: SMS 9/8/2025

|                 |                      |          |
|-----------------|----------------------|----------|
| Code Revisions: | TIA-222-I            | IBC 2024 |
| Tower Type:     | 4 Sided Self-Support |          |

## Wind Inputs:

|                     |      |        |
|---------------------|------|--------|
| Ult. Wind Velocity: | 105  | mph    |
| Live Load Velocity: | 30   | mph    |
| Ice Wind Velocity:  | 50   | mph    |
| Base Ice Thickness: | 0.00 | inches |
| Mount Centerline:   | 49.0 | ft     |
| Antenna Centerline: | 50.0 | ft     |
| Exposure Category:  | C    |        |
| Topo Category:      | 1    |        |
| Risk Category:      | II   |        |
| Ground Elevation:   | 6235 | ft     |

## Wind Calculations:

|                   |       |                         |
|-------------------|-------|-------------------------|
| $K_{zt}$ :        | 1.000 | Section 2.6.6           |
| $K_d$ :           | 0.950 |                         |
| $K_{z-Mount}$ :   | 1.084 | Section 2.6.5.2         |
| $K_{z-Antenna}$ : | 1.088 | Section 2.6.5.2         |
| $K_{iz}$ :        | 1.041 | Section 2.6.10          |
| Ice Thickness:    | 0.000 | inches - Section 2.6.10 |
| $K_{es-wind}$ :   | 0.95  | Annex S (Table S-1)     |
| $K_{es-ice}$ :    | 0.85  | Annex S (Table S-1)     |

| Without Ice - (psf)           | With Ice - (psf)             |
|-------------------------------|------------------------------|
| $(q_z G_h)_{Mount}$ : 22.03   | $(q_z G_h)_{Mount}$ : 5.26   |
| $(q_z G_h)_{Antenna}$ : 22.12 | $(q_z G_h)_{Antenna}$ : 5.28 |

|                         |           |
|-------------------------|-----------|
| Seismic Code Revisions: | TIA-222-I |
| Seismic Risk Category:  | II        |

## Seismic Input

|            |       |                                                  |
|------------|-------|--------------------------------------------------|
| $S_{DS}$ : | 0.870 | Design Short Period Spectral Accel.              |
| $I_p$ :    | 1.0   | Importance Factor                                |
| $R_p$ :    | 2.0   | Response Modification Factor                     |
| $\rho$ :   | 1.0   |                                                  |
| $A_s$ :    | 1.0   | Applification Factor - TIA-222-I Section 2.7.9.1 |
| $S_1$ :    | 0.330 | Spectral Acceleration at a Period of 1 Second    |

## Seismic Design Force

|         |       |          |                     |
|---------|-------|----------|---------------------|
| Cs:     | 0.435 | kips/kip | TIA-I Sec 2.7.8.1.1 |
| Cs-min: | 0.038 | kips/kip | TIA-I Sec 2.7.8.1.1 |



Jackson DT (BU 831885)  
TEP No. 309257.1151610  
Analysis By: PRS 9/08/2025  
Checked By: SMS 9/08/2025

F<sub>x</sub> and C<sub>a</sub>A<sub>s</sub> values calculated in accordance with TIA-222-I, unless otherwise noted.  
Azimuth is the absolute angle measured clockwise from RISA-3D global X-axis.

| MFR       | Model                           | Height (in) | Width (in) | Depth (in) | Wt. (lbs) | Azimuth* | Qty | Shape | Member Label | Distance Along Member (ft) |        |        | C <sub>a</sub> A <sub>s</sub> (ft <sup>2</sup> ) |      | F <sub>x</sub> (lbs) |      | K <sub>s</sub> |
|-----------|---------------------------------|-------------|------------|------------|-----------|----------|-----|-------|--------------|----------------------------|--------|--------|--------------------------------------------------|------|----------------------|------|----------------|
|           |                                 |             |            |            |           |          |     |       |              | Loc. 1                     | Loc. 2 | Loc. 3 | Front                                            | Side | Front                | Side |                |
| COMMSCOPE | FFV4-65B-R6                     | 0.00        | 0.00       | 0.00       | 96.80     | 0.00     | 1   | Flat  | MP-3         | 1.83                       | 6.83   |        | 0.00                                             | 0.00 | 0.00                 | 0.00 | 1.0            |
| COMMSCOPE | FFV4-65B-R6                     | 0.00        | 0.00       | 0.00       | 96.80     | 120.00   | 1   | Flat  | MP-8         | 1.83                       | 6.83   |        | 0.00                                             | 0.00 | 0.00                 | 0.00 | 1.0            |
| COMMSCOPE | FFV4-65B-R6                     | 0.00        | 0.00       | 0.00       | 96.80     | 240.00   | 1   | Flat  | MP-10        | 1.83                       | 6.83   |        | 0.00                                             | 0.00 | 0.00                 | 0.00 | 1.0            |
| ERICSSON  | ADIO 4480 B71 B85A_20210820_TM  | 0.00        | 0.00       | 0.00       | 81.00     | 0.00     | 1   | Flat  | MP-3         | 4.33                       |        |        |                                                  |      |                      |      | 1.0            |
| ERICSSON  | ADIO 4480 B71 B85A_20210820_TM  | 0.00        | 0.00       | 0.00       | 81.00     | 120.00   | 1   | Flat  | MP-8         | 4.33                       |        |        |                                                  |      |                      |      | 1.0            |
| ERICSSON  | ADIO 4480 B71 B85A_20210820_TM  | 0.00        | 0.00       | 0.00       | 81.00     | 240.00   | 1   | Flat  | MP-10        | 4.33                       |        |        |                                                  |      |                      |      | 1.0            |
| ERICSSON  | RADIO 8863 B41_TMO              | 0.00        | 0.00       | 0.00       | 53.10     | 0.00     | 2   | Flat  | MP-3         | 4.33                       |        |        |                                                  |      |                      |      | 1.0            |
| ERICSSON  | RADIO 8863 B41_TMO              | 0.00        | 0.00       | 0.00       | 53.10     | 120.00   | 1   | Flat  | MP-8         | 4.33                       |        |        |                                                  |      |                      |      | 1.0            |
| ERICSSON  | DIO 4460 B2/B25 B66_20210820_TM | 0.00        | 0.00       | 0.00       | 109.00    | 0.00     | 1   | Flat  | MP-3         | 4.33                       |        |        |                                                  |      |                      |      | 1.0            |
| ERICSSON  | DIO 4460 B2/B25 B66_20210820_TM | 0.00        | 0.00       | 0.00       | 109.00    | 120.00   | 1   | Flat  | MP-8         | 4.33                       |        |        |                                                  |      |                      |      | 1.0            |
| ERICSSON  | DIO 4460 B2/B25 B66_20210820_TM | 0.00        | 0.00       | 0.00       | 109.00    | 240.00   | 1   | Flat  | MP-10        | 4.33                       |        |        |                                                  |      |                      |      | 1.0            |
| COMMSCOPE | NHHSS-45B-R2BT4                 | 0.00        | 0.00       | 0.00       | 100.54    | 0.00     | 1   | Flat  | MP-11        | 0.25                       | 6.25   |        | 0.00                                             | 0.00 | 0.00                 | 0.00 | 1.0            |
| COMMSCOPE | NHHSS-45B-R2BT4                 | 0.00        | 0.00       | 0.00       | 100.54    | 0.00     | 1   | Flat  | MP-12        | 0.25                       | 6.25   |        | 0.00                                             | 0.00 | 0.00                 | 0.00 | 1.0            |
| COMMSCOPE | NHHSS-45B-R2BT4                 | 0.00        | 0.00       | 0.00       | 100.54    | 90.00    | 1   | Flat  | MP-14        | 0.25                       | 6.25   |        | 0.00                                             | 0.00 | 0.00                 | 0.00 | 1.0            |
| COMMSCOPE | NHHSS-45B-R2BT4                 | 0.00        | 0.00       | 0.00       | 100.54    | 90.00    | 1   | Flat  | MP-15        | 0.25                       | 6.25   |        | 0.00                                             | 0.00 | 0.00                 | 0.00 | 1.0            |
| COMMSCOPE | NHHSS-45B-R2BT4                 | 0.00        | 0.00       | 0.00       | 100.54    | 180.00   | 1   | Flat  | MP-16        | 0.25                       | 6.25   |        | 0.00                                             | 0.00 | 0.00                 | 0.00 | 1.0            |
| COMMSCOPE | NHHSS-45B-R2BT4                 | 0.00        | 0.00       | 0.00       | 100.54    | 180.00   | 1   | Flat  | MP-17        | 0.25                       | 6.25   |        | 0.00                                             | 0.00 | 0.00                 | 0.00 | 1.0            |
| COMMSCOPE | NHHSS-45B-R2BT4                 | 0.00        | 0.00       | 0.00       | 100.54    | 270.00   | 1   | Flat  | MP-19        | 0.25                       | 6.25   |        | 0.00                                             | 0.00 | 0.00                 | 0.00 | 1.0            |
| COMMSCOPE | NHHSS-45B-R2BT4                 | 0.00        | 0.00       | 0.00       | 100.54    | 270.00   | 1   | Flat  | MP-20        | 0.25                       | 6.25   |        | 0.00                                             | 0.00 | 0.00                 | 0.00 | 1.0            |
| COMMSCOPE | NNH45S-65C-R3BT8                | 0.00        | 0.00       | 0.00       | 125.89    | 310.00   | 1   | Flat  | MP-21        | 0.50                       | 8.50   |        | 0.00                                             | 0.00 | 0.00                 | 0.00 | 1.0            |
| ERICSSON  | AIR 6419                        | 0.00        | 0.00       | 0.00       | 55.40     | 310.00   | 1   | Flat  | MP-22        | 0.20                       | 2.80   |        | 0.00                                             | 0.00 | 0.00                 | 0.00 | 1.0            |
| COMMSCOPE | NNH45S-65C-R3BT8                | 0.00        | 0.00       | 0.00       | 125.89    | 90.00    | 1   | Flat  | MP-23        | 0.50                       | 8.50   |        | 0.00                                             | 0.00 | 0.00                 | 0.00 | 1.0            |
| ERICSSON  | AIR 6419                        | 0.00        | 0.00       | 0.00       | 55.40     | 90.00    | 1   | Flat  | MP-24        | 0.20                       | 2.80   |        | 0.00                                             | 0.00 | 0.00                 | 0.00 | 1.0            |
| COMMSCOPE | NNH45S-65C-R3BT8                | 0.00        | 0.00       | 0.00       | 125.89    | 190.00   | 1   | Flat  | MP-25        | 0.50                       | 8.50   |        | 0.00                                             | 0.00 | 0.00                 | 0.00 | 1.0            |
| ERICSSON  | AIR 6419                        | 0.00        | 0.00       | 0.00       | 55.40     | 190.00   | 1   | Flat  | MP-26        | 0.20                       | 2.80   |        | 0.00                                             | 0.00 | 0.00                 | 0.00 | 1.0            |
| RAYCAP    | RCMDC-6627-PF-48                | 0.00        | 0.00       | 0.00       | 32.00     | 310.00   | 1   | Flat  | MP-21        | 4.50                       |        |        |                                                  |      |                      |      | 1.0            |
| ERICSSON  | RADIO 4490HP 44B5 44B13 C       | 0.00        | 0.00       | 0.00       | 68.40     | 310.00   | 1   | Flat  | MP-21        | 4.50                       |        |        |                                                  |      |                      |      | 1.0            |
| ERICSSON  | RADIO 4490HP 44B5 44B13 C       | 0.00        | 0.00       | 0.00       | 68.40     | 310.00   | 1   | Flat  | MP-22        | 4.50                       |        |        |                                                  |      |                      |      | 1.0            |
| ERICSSON  | RADIO 4490HP 44B5 44B13 C       | 0.00        | 0.00       | 0.00       | 68.40     | 90.00    | 1   | Flat  | MP-23        | 4.50                       |        |        |                                                  |      |                      |      | 1.0            |
| ERICSSON  | RADIO 4890HP B2/B25 B66         | 0.00        | 0.00       | 0.00       | 68.00     | 90.00    | 1   | Flat  | MP-24        | 4.50                       |        |        |                                                  |      |                      |      | 1.0            |
| ERICSSON  | RADIO 4890HP B2/B25 B66         | 0.00        | 0.00       | 0.00       | 68.00     | 190.00   | 1   | Flat  | MP-25        | 4.50                       |        |        |                                                  |      |                      |      | 1.0            |
| ERICSSON  | RADIO 4890HP B2/B25 B66         | 0.00        | 0.00       | 0.00       | 68.00     | 190.00   | 1   | Flat  | MP-26        | 4.50                       |        |        |                                                  |      |                      |      | 1.0            |
| RAYCAP    | RCMDC-6627-PF-48                | 0.00        | 0.00       | 0.00       | 32.00     | 190.00   | 1   | Flat  | MP-26        | 4.50                       |        |        |                                                  |      |                      |      | 1.0            |



FRP Tube Outer Legs 29.83 ft - 53.33 ft

Jackson DT (BU 831885)

TEP No. 309257.1151610  
Analysis By: PRS 9/8/2025  
Checked By: SMS 9/8/2025

#### Input - Loads (From RISA)

P 1534 lbs  
V 383 lbs  
M 784 lb-ft  
Controlling Member M391A

#### Results Summary\*

Axial 8.6% OK  
Bending 17.3% OK  
Interaction 25.9% OK  
Shear 10.0% OK

\* Rating per TIA-222-I Section 15.5

#### Input - Material Properties

FRP Series Strongwell Extren Series 500/525  
E 2600000 psi

#### Input - Shape Properties

Member Size HSS4x4x3/8  
A 5.48 in<sup>2</sup>  
Aw 2.44 in<sup>2</sup>  
b 4 in  
t 0.375 in  
r 1.48 in  
I 11.9 in<sup>4</sup>  
S 5.95 in<sup>3</sup>

K 1.0  
L 23.83 ft  
Lu 11.50 ft  
KLu/r 93.2

#### Compression

Factor of Safety 3  
Fu 21728 psi - short column mode  
Fa 7243 psi - short column mode  
Fu' 9299 psi - long column mode  
Fa' 3100 psi - long column mode  
Pa 16985.31 lbs

Axial Capacity\* = 8.6% OK

#### Bending

Factor of Safety 2.5  
Fu 21728 psi  
Fb 8691 psi  
Ma 4309 lb-ft

Bending Capacity\* = 17.3% OK

Interaction Capacity\* = 25.9% OK

#### Shear

Factor of Safety 3  
Fu 4500 psi  
Fv 1500 psi  
Va 3660 lbs

Shear Capacity\* = 10.0% OK

FRP Square Tube Analysis

Tower Engineering Professionals, Inc.

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FRP Tube Outer Legs 15.0 ft - 29.83 ft

Jackson DT (BU 831885)

TEP No. 309257.1151610  
Analysis By: PRS 9/8/2025  
Checked By: SMS 9/8/2025

#### Input - Loads (From RISA)

P 2413 lbs  
V 389 lbs  
M 780 lb-ft  
Controlling Member M390B

#### Results Summary\*

Axial 15.9% OK  
Bending 17.2% OK  
Interaction 33.1% OK  
Shear 10.1% OK

\* Rating per TIA-222-I Section 15.5

#### Input - Material Properties

FRP Series Strongwell Extren Series 500/525  
E 2600000 psi

#### Input - Shape Properties

Member Size HSS4x4x3/8  
A 5.48 in<sup>2</sup>  
Aw 2.44 in<sup>2</sup>  
b 4 in  
t 0.375 in  
r 1.48 in  
I 11.9 in<sup>4</sup>  
S 5.95 in<sup>3</sup>

K 1.0  
L 14.83 ft  
Lu 13.00 ft  
KLu/r 105.4

#### Compression

Factor of Safety 3  
Fu 21728 psi - short column mode  
Fa 7243 psi - short column mode  
Fu' 7929 psi - long column mode  
Fa' 2643 psi - long column mode  
Pa 14482.86 lbs

Axial Capacity\* = 15.9% OK

#### Bending

Factor of Safety 2.5  
Fu 21728 psi  
Fb 8691 psi  
Ma 4309 lb-ft

Bending Capacity\* = 17.2% OK

Interaction Capacity\* = 33.1% OK

#### Shear

Factor of Safety 3  
Fu 4500 psi  
Fv 1500 psi  
Va 3660 lbs

Shear Capacity\* = 10.1% OK

FRP Square Tube Analysis

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# FRP Tube Outer Legs 0 ft - 15.0 ft

Jackson DT (BU 831885)

TEP No. 309257.1151610  
Analysis By: PRS 9/8/2025  
Checked By: SMS 9/8/2025

## Input - Loads (From RISA)

P 3339 lbs  
V 384 lbs  
M 492 lb-ft  
Controlling Member M38B

## Results Summary\*

Axial 11.7% OK  
Bending 10.9% OK  
Interaction 22.5% OK  
Shear 10.0% OK

\* Rating per TIA-222-I Section 15.5

## Input - Material Properties

FRP Series Strongwell Extren Series 500/525  
E 2600000 psi

## Input - Shape Properties

Member Size HSS4x4x3/8  
A 5.48 in<sup>2</sup>  
Aw 2.44 in<sup>2</sup>  
b 4 in  
t 0.375 in  
r 1.48 in  
I 11.9 in<sup>4</sup>  
S 5.95 in<sup>3</sup>

K 1.0  
L 14.83 ft  
Lu 8.00 ft  
KLu/r 64.9

## Compression

Factor of Safety 3  
Fu 21728 psi - short column mode  
Fa 7243 psi - short column mode  
Fu' 14904 psi - long column mode  
Fa' 4968 psi - long column mode  
Pa 27224.73 lbs

Axial Capacity\* = 11.7% OK

## Bending

Factor of Safety 2.5  
Fu 21728 psi  
Fb 8691 psi  
Ma 4309 lb-ft

Bending Capacity\* = 10.9% OK

Interaction Capacity\* = 22.5% OK

## Shear

Factor of Safety 3  
Fu 4500 psi  
Fv 1500 psi  
Va 3660 lbs

Shear Capacity\* = 10.0% OK

FRP Square Tube Analysis

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# FRP Tube Horizontals 53.33 ft

Jackson DT (BU 831885)

TEP No. 309257.1151610  
Analysis By: PRS 9/8/2025  
Checked By: SMS 9/8/2025

## Input - Loads (From RISA)

P 26 lbs  
V 178 lbs  
M 183 lb-ft  
Controlling Member M363A

## Results Summary\*

Axial 0.1% OK  
Bending 11.4% OK  
Interaction 11.6% OK  
Shear 9.0% OK

\* Rating per TIA-222-I Section 15.5

## Input - Material Properties

FRP Series Strongwell Extren Series 500/525  
E 2600000 psi

## Input - Shape Properties

Member Size HSS3x3x1/4  
A 2.74 in<sup>2</sup>  
Aw 1.25 in<sup>2</sup>  
b 3 in  
t 0.25 in  
r 1.13 in  
I 3.5 in<sup>4</sup>  
S 2.33 in<sup>3</sup>

K 1.0  
L 9.00 ft  
Lu 3.63 ft  
KLu/r 38.5

## Compression

Factor of Safety 3  
Fu 19658 psi - short column mode  
Fa 6553 psi - short column mode  
Fu' 29369 psi - long column mode  
Fa' 9790 psi - long column mode  
Pa 17954.72 lbs

Axial Capacity\* = 0.1% OK

## Bending

Factor of Safety 2.5  
Fu 19658 psi  
Fb 7863 psi  
Ma 1527 lb-ft

Bending Capacity\* = 11.4% OK

Interaction Capacity\* = 11.6% OK

## Shear

Factor of Safety 3  
Fu 4500 psi  
Fv 1500 psi  
Va 1875 lbs

Shear Capacity\* = 9.0% OK

FRP Square Tube Analysis

Tower Engineering Professionals, Inc.

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# FRP Tube Horizontals 42.25 ft

Jackson DT (BU 831885)

TEP No. 309257.1151610  
Analysis By: PRS 9/8/2025  
Checked By: SMS 9/8/2025

## Input - Loads (From RISA)

P 61 lbs  
V 128 lbs  
M 194 lb-ft  
Controlling Member M402

## Results Summary\*

Axial 0.3% OK  
Bending 12.1% OK  
Interaction 12.4% OK  
Shear 6.5% OK

\* Rating per TIA-222-I Section 15.5

## Input - Material Properties

FRP Series Strongwell Extren Series 500/525  
E 2600000 psi

## Input - Shape Properties

Member Size HSS3x3x1/4  
A 2.74 in<sup>2</sup>  
Aw 1.25 in<sup>2</sup>  
b 3 in  
t 0.25 in  
r 1.13 in  
I 3.5 in<sup>4</sup>  
S 2.33 in<sup>3</sup>

K 1.0  
L 9.54 ft  
Lu 3.63 ft  
KLu/r 38.5

## Compression

Factor of Safety 3  
Fu 19658 psi - short column mode  
Fa 6553 psi - short column mode  
Fu' 29369 psi - long column mode  
Fa' 9790 psi - long column mode  
Pa 17954.72 lbs

Axial Capacity\* = 0.3% OK

## Bending

Factor of Safety 2.5  
Fu 19658 psi  
Fb 7863 psi  
Ma 1527 lb-ft

Bending Capacity\* = 12.1% OK

Interaction Capacity\* = 12.4% OK

## Shear

Factor of Safety 3  
Fu 4500 psi  
Fv 1500 psi  
Va 1875 lbs

Shear Capacity\* = 6.5% OK

FRP Square Tube Analysis

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# FRP Tube Horizontals 29.83 ft

Jackson DT (BU 831885)

TEP No. 309257.1151610  
Analysis By: PRS 9/8/2025  
Checked By: SMS 9/8/2025

## Input - Loads (From RISA)

P 132 lbs  
V 109 lbs  
M 192 lb-ft  
Controlling Member M360A

## Results Summary\*

Axial 0.7% OK  
Bending 12.0% OK  
Interaction 12.7% OK  
Shear 5.5% OK

\* Rating per TIA-222-I Section 15.5

## Input - Material Properties

FRP Series Strongwell Extren Series 500/525  
E 2600000 psi

## Input - Shape Properties

Member Size HSS3x3x1/4  
A 2.74 in<sup>2</sup>  
Aw 1.25 in<sup>2</sup>  
b 3 in  
t 0.25 in  
r 1.13 in  
I 3.5 in<sup>4</sup>  
S 2.33 in<sup>3</sup>

K 1.0  
L 10.18 ft  
Lu 3.63 ft  
KLu/r 38.5

## Compression

Factor of Safety 3  
Fu 19658 psi - short column mode  
Fa 6553 psi - short column mode  
Fu' 29369 psi - long column mode  
Fa' 9790 psi - long column mode  
Pa 17954.72 lbs

Axial Capacity\* = 0.7% OK

## Bending

Factor of Safety 2.5  
Fu 19658 psi  
Fb 7863 psi  
Ma 1527 lb-ft

Bending Capacity\* = 12.0% OK

Interaction Capacity\* = 12.7% OK

## Shear

Factor of Safety 3  
Fu 4500 psi  
Fv 1500 psi  
Va 1875 lbs

Shear Capacity\* = 5.5% OK

FRP Square Tube Analysis

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**FRP Tube Horizontals 15.0 ft****Jackson DT (BU 831885)**

**TEP No.** 309257.1151610  
**Analysis By:** PRS 9/8/2025  
**Checked By:** SMS 9/8/2025

**Input - Loads (From RISA)**

P 148 lbs  
V 120 lbs  
M 239 lb-ft  
Controlling Member M377

**Results Summary\***

Axial 0.8% OK  
Bending 14.9% OK  
Interaction 15.7% OK  
Shear 6.1% OK

\* Rating per TIA-222-I Section 15.5

**Input - Material Properties**

FRP Series Strongwell Extren Series 500/525  
E 2600000 psi

**Input - Shape Properties**

Member Size HSS3x3x1/4  
A 2.74 in<sup>2</sup>  
Aw 1.25 in<sup>2</sup>  
b 3 in  
t 0.25 in  
r 1.13 in  
I 3.5 in<sup>4</sup>  
S 2.33 in<sup>3</sup>

K 1.0  
L 10.90 ft  
Lu 3.63 ft  
KLu/r 38.5

**Compression**

Factor of Safety 3  
Fu 19658 psi - short column mode  
Fa 6553 psi - short column mode  
Fu' 29316 psi - long column mode  
Fa' 9772 psi - long column mode  
Pa 17954.72 lbs

Axial Capacity\* = 0.8% OK

**Bending**

Factor of Safety 2.5  
Fu 19658 psi  
Fb 7863 psi  
Ma 1527 lb-ft

Bending Capacity\* = 14.9% OK

Interaction Capacity\* = 15.7% OK

**Shear**

Factor of Safety 3  
Fu 4500 psi  
Fv 1500 psi  
Va 1875 lbs

Shear Capacity\* = 6.1% OK



# FRP Tube Horizontals 0 ft - 6.083 ft

Jackson DT (BU 831885)

TEP No. 309257.1151610  
Analysis By: PRS 9/8/2025  
Checked By: SMS 9/8/2025

## Input - Loads (From RISA)

P 64 lbs  
V 155 lbs  
M 311 lb-ft  
Controlling Member M376

## Results Summary\*

Axial 0.3% OK  
Bending 19.4% OK  
Interaction 19.7% OK  
Shear 7.9% OK

\* Rating per TIA-222-I Section 15.5

## Input - Material Properties

FRP Series Strongwell Extren Series 500/525  
E 2600000 psi

## Input - Shape Properties

Member Size HSS3x3x1/4  
A 2.74 in<sup>2</sup>  
Aw 1.25 in<sup>2</sup>  
b 3 in  
t 0.25 in  
r 1.13 in  
I 3.5 in<sup>4</sup>  
S 2.33 in<sup>3</sup>

K 1.0  
L 11.58 ft  
Lu 3.98 ft  
KLu/r 42.3

## Compression

Factor of Safety 3  
Fu 19658 psi - short column mode  
Fa 6553 psi - short column mode  
Fu' 26010 psi - long column mode  
Fa' 8670 psi - long column mode  
Pa 17954.72 lbs

Axial Capacity\* = 0.3% OK

## Bending

Factor of Safety 2.5  
Fu 19658 psi  
Fb 7863 psi  
Ma 1527 lb-ft

Bending Capacity\* = 19.4% OK

Interaction Capacity\* = 19.7% OK

## Shear

Factor of Safety 3  
Fu 4500 psi  
Fv 1500 psi  
Va 1875 lbs

Shear Capacity\* = 7.9% OK

FRP Square Tube Analysis

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## FRP Tube Outriggers 53.33 ft

Jackson DT (BU 831885)

TEP No. 309257.1151610  
Analysis By: PRS 9/8/2025  
Checked By: SMS 9/8/2025

### Input - Loads (From RISA)

P 242 lbs  
V 511 lbs  
M 789 lb-ft  
Controlling Member M38

### Results Summary\*

Axial 0.6% OK  
Bending 17.4% OK  
Interaction 18.0% OK  
Shear 13.3% OK

\* Rating per TIA-222-I Section 15.5

### Input - Material Properties

FRP Series Strongwell Extren Series 500/525  
E 2600000 psi

### Input - Shape Properties

Member Size HSS4x4x3/8  
A 5.48 in<sup>2</sup>  
Aw 2.44 in<sup>2</sup>  
b 4 in  
t 0.375 in  
r 1.48 in  
I 11.9 in<sup>4</sup>  
S 5.95 in<sup>3</sup>

K 1.0  
L 1.79 ft  
Lu 1.79 ft  
KLu/r 14.5

### Compression

Factor of Safety 3  
Fu 21728 psi - short column mode  
Fa 7243 psi - short column mode  
Fu' 104379 psi - long column mode  
Fa' 34793 psi - long column mode  
Pa 39690.65 lbs

Axial Capacity\* = 0.6% OK

### Bending

Factor of Safety 2.5  
Fu 21728 psi  
Fb 8691 psi  
Ma 4309 lb-ft

Bending Capacity\* = 17.4% OK

Interaction Capacity\* = 18.0% OK

### Shear

Factor of Safety 3  
Fu 4500 psi  
Fv 1500 psi  
Va 3660 lbs

Shear Capacity\* = 13.3% OK

FRP Square Tube Analysis

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## FRP Tube Outriggers 42.25 ft

Jackson DT (BU 831885)

TEP No. 309257.1151610  
Analysis By: PRS 9/8/2025  
Checked By: SMS 9/8/2025

### Input - Loads (From RISA)

P 750 lbs  
V 247 lbs  
M 710 lb-ft  
Controlling Member M388

### Results Summary\*

Axial 1.8% OK  
Bending 15.7% OK  
Interaction 17.5% OK  
Shear 6.4% OK

\* Rating per TIA-222-I Section 15.5

### Input - Material Properties

FRP Series Strongwell Extren Series 500/525  
E 2600000 psi

### Input - Shape Properties

Member Size HSS4x4x3/8  
A 5.48 in<sup>2</sup>  
Aw 2.44 in<sup>2</sup>  
b 4 in  
t 0.375 in  
r 1.48 in  
I 11.9 in<sup>4</sup>  
S 5.95 in<sup>3</sup>

K 1.0  
L 2.15 ft  
Lu 2.15 ft  
KLu/r 17.4

### Compression

Factor of Safety 3  
Fu 21728 psi - short column mode  
Fa 7243 psi - short column mode  
Fu' 82253 psi - long column mode  
Fa' 27418 psi - long column mode  
Pa 39690.65 lbs

Axial Capacity\* = 1.8% OK

### Bending

Factor of Safety 2.5  
Fu 21728 psi  
Fb 8691 psi  
Ma 4309 lb-ft

Bending Capacity\* = 15.7% OK

Interaction Capacity\* = 17.5% OK

### Shear

Factor of Safety 3  
Fu 4500 psi  
Fv 1500 psi  
Va 3660 lbs

Shear Capacity\* = 6.4% OK

FRP Square Tube Analysis

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## FRP Tube Outriggers 29.83 ft

Jackson DT (BU 831885)

TEP No. 309257.1151610  
Analysis By: PRS 9/8/2025  
Checked By: SMS 9/8/2025

### Input - Loads (From RISA)

P 558 lbs  
V 135 lbs  
M 416 lb-ft  
Controlling Member M30A

### Results Summary\*

Axial 1.3% OK  
Bending 9.2% OK  
Interaction 10.5% OK  
Shear 3.5% OK

\* Rating per TIA-222-I Section 15.5

### Input - Material Properties

FRP Series Strongwell Extren Series 500/525  
E 2600000 psi

### Input - Shape Properties

Member Size HSS4x4x3/8  
A 5.48 in<sup>2</sup>  
Aw 2.44 in<sup>2</sup>  
b 4 in  
t 0.375 in  
r 1.48 in  
I 11.9 in<sup>4</sup>  
S 5.95 in<sup>3</sup>

K 1.0  
L 2.41 ft  
Lu 2.41 ft  
KLu/r 19.5

### Compression

Factor of Safety 3  
Fu 21728 psi - short column mode  
Fa 7243 psi - short column mode  
Fu' 70909 psi - long column mode  
Fa' 23636 psi - long column mode  
Pa 39690.65 lbs

Axial Capacity\* = 1.3% OK

### Bending

Factor of Safety 2.5  
Fu 21728 psi  
Fb 8691 psi  
Ma 4309 lb-ft

Bending Capacity\* = 9.2% OK

Interaction Capacity\* = 10.5% OK

### Shear

Factor of Safety 3  
Fu 4500 psi  
Fv 1500 psi  
Va 3660 lbs

Shear Capacity\* = 3.5% OK

FRP Square Tube Analysis

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## FRP Tube Outriggers 15.0 ft

Jackson DT (BU 831885)

TEP No. 309257.1151610  
Analysis By: PRS 9/8/2025  
Checked By: SMS 9/8/2025

### Input - Loads (From RISA)

P 761 lbs  
V 96 lbs  
M 312 lb-ft  
Controlling Member M30

### Results Summary\*

Axial 1.8% OK  
Bending 6.9% OK  
Interaction 8.7% OK  
Shear 2.5% OK

\* Rating per TIA-222-I Section 15.5

### Input - Material Properties

FRP Series Strongwell Extren Series 500/525  
E 2600000 psi

### Input - Shape Properties

Member Size HSS4x4x3/8  
A 5.48 in<sup>2</sup>  
Aw 2.44 in<sup>2</sup>  
b 4 in  
t 0.375 in  
r 1.48 in  
I 11.9 in<sup>4</sup>  
S 5.95 in<sup>3</sup>

K 1.0  
L 2.89 ft  
Lu 2.89 ft  
KLu/r 23.4

### Compression

Factor of Safety 3  
Fu 21728 psi - short column mode  
Fa 7243 psi - short column mode  
Fu' 56122 psi - long column mode  
Fa' 18707 psi - long column mode  
Pa 39690.65 lbs

Axial Capacity\* = 1.8% OK

### Bending

Factor of Safety 2.5  
Fu 21728 psi  
Fb 8691 psi  
Ma 4309 lb-ft

Bending Capacity\* = 6.9% OK

Interaction Capacity\* = 8.7% OK

### Shear

Factor of Safety 3  
Fu 4500 psi  
Fv 1500 psi  
Va 3660 lbs

Shear Capacity\* = 2.5% OK

FRP Square Tube Analysis

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## FRP Tube Outriggers 6.083 ft

Jackson DT (BU 831885)

TEP No. 309257.1151610  
Analysis By: PRS 9/8/2025  
Checked By: SMS 9/8/2025

### Input - Loads (From RISA)

P 412 lbs  
V 76 lbs  
M 256 lb-ft  
Controlling Member M26

### Results Summary\*

Axial 1.0% OK  
Bending 5.7% OK  
Interaction 6.7% OK  
Shear 2.0% OK

\* Rating per TIA-222-I Section 15.5

### Input - Material Properties

FRP Series Strongwell Extren Series 500/525  
E 2600000 psi

### Input - Shape Properties

Member Size HSS4x4x3/8  
A 5.48 in<sup>2</sup>  
Aw 2.44 in<sup>2</sup>  
b 4 in  
t 0.375 in  
r 1.48 in  
I 11.9 in<sup>4</sup>  
S 5.95 in<sup>3</sup>

K 1.0  
L 3.14 ft  
Lu 3.14 ft  
KLu/r 25.5

### Compression

Factor of Safety 3  
Fu 21728 psi - short column mode  
Fa 7243 psi - short column mode  
Fu' 50270 psi - long column mode  
Fa' 16757 psi - long column mode  
Pa 39690.65 lbs

Axial Capacity\* = 1.0% OK

### Bending

Factor of Safety 2.5  
Fu 21728 psi  
Fb 8691 psi  
Ma 4309 lb-ft

Bending Capacity\* = 5.7% OK

Interaction Capacity\* = 6.7% OK

### Shear

Factor of Safety 3  
Fu 4500 psi  
Fv 1500 psi  
Va 3660 lbs

Shear Capacity\* = 2.0% OK

FRP Square Tube Analysis

Tower Engineering Professionals, Inc.

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Monopole Base Plate Connection

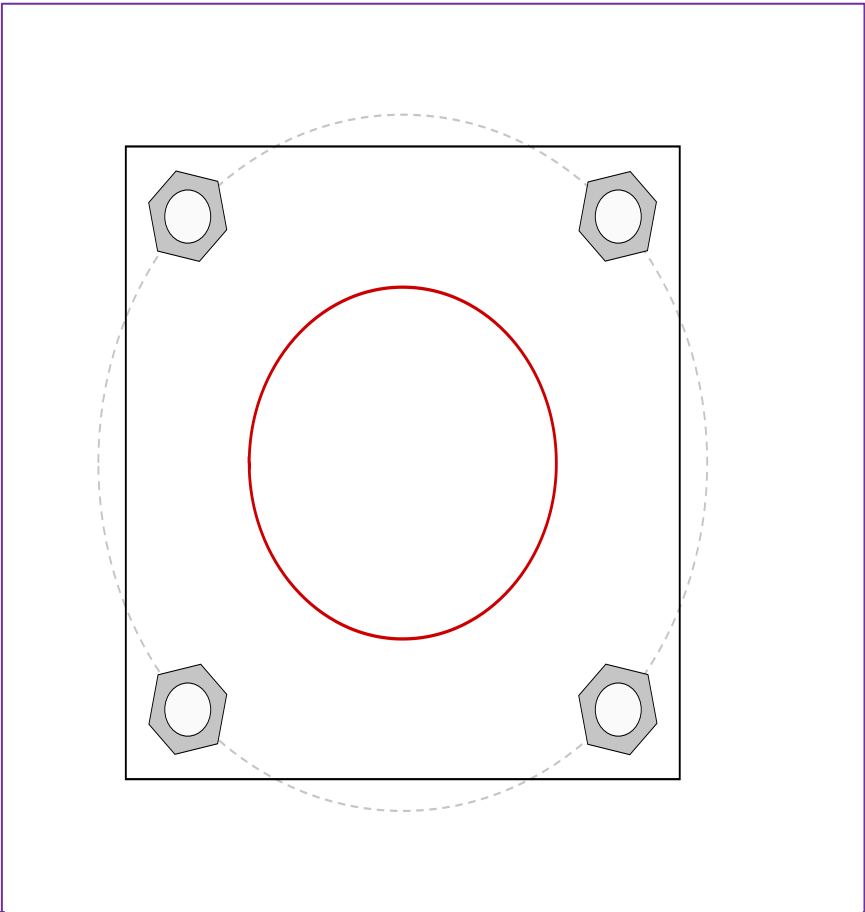


| Site Info |               |
|-----------|---------------|
| BU #      | 831885        |
| Site Name | Jackson DT    |
| Order #   | 708594 Rev. 2 |

| Analysis Considerations |    |
|-------------------------|----|
| TIA-222 Revision        | I  |
| Grout Considered:       | No |
| $l_{ar}$ (in)           | 0  |

| Applied Loads      |       |
|--------------------|-------|
| Moment (kip-ft)    | 19.47 |
| Axial Force (kips) | 43.22 |
| Shear Force (kips) | 2.69  |

\*TIA-222-I Section 15.5 Applied



| Connection Properties                                                                 |  | Analysis Results                                         |                                           |
|---------------------------------------------------------------------------------------|--|----------------------------------------------------------|-------------------------------------------|
| <b>Anchor Rod Data</b>                                                                |  | <b>Anchor Rod Summary</b> <i>(units of kips, kip-in)</i> |                                           |
| (4) 1-1/2" $\varnothing$ bolts (F1554-55 N; $F_y=55$ ksi, $F_u=75$ ksi) on 19.799" BC |  | $Pu\_c = 22.58$                                          | $\phi Pn\_c = 87.47$ <b>Stress Rating</b> |
| <b>Base Plate Data</b>                                                                |  | $Vu = 0.67$                                              | $\phi Vn = 39.36$ <b>24.6%</b>            |
| 18" W x 2.25" Plate (A572-50; $F_y=50$ ksi, $F_u=65$ ksi); Clip: 0 in                 |  | $Mu = n/a$                                               | $\phi Mn = n/a$ <b>Pass</b>               |
| <b>Stiffener Data</b>                                                                 |  | <b>Base Plate Summary</b>                                |                                           |
| N/A                                                                                   |  | Max Stress (ksi):                                        | 5.66 (Flexural)                           |
| <b>Pole Data</b>                                                                      |  | Allowable Stress (ksi):                                  | 45                                        |
| 10" x 0.375" 4-sided pole (A500 Gr.42; $F_y=42$ ksi, $F_u=58$ ksi)                    |  | Stress Rating:                                           | <b>12.0%</b> <b>Pass</b>                  |

Self Support Anchor Rod Capacity



| Site Info |               |
|-----------|---------------|
| BU #      | 831885        |
| Site Name | Jackson DT    |
| Order #   | 708594 Rev. 2 |

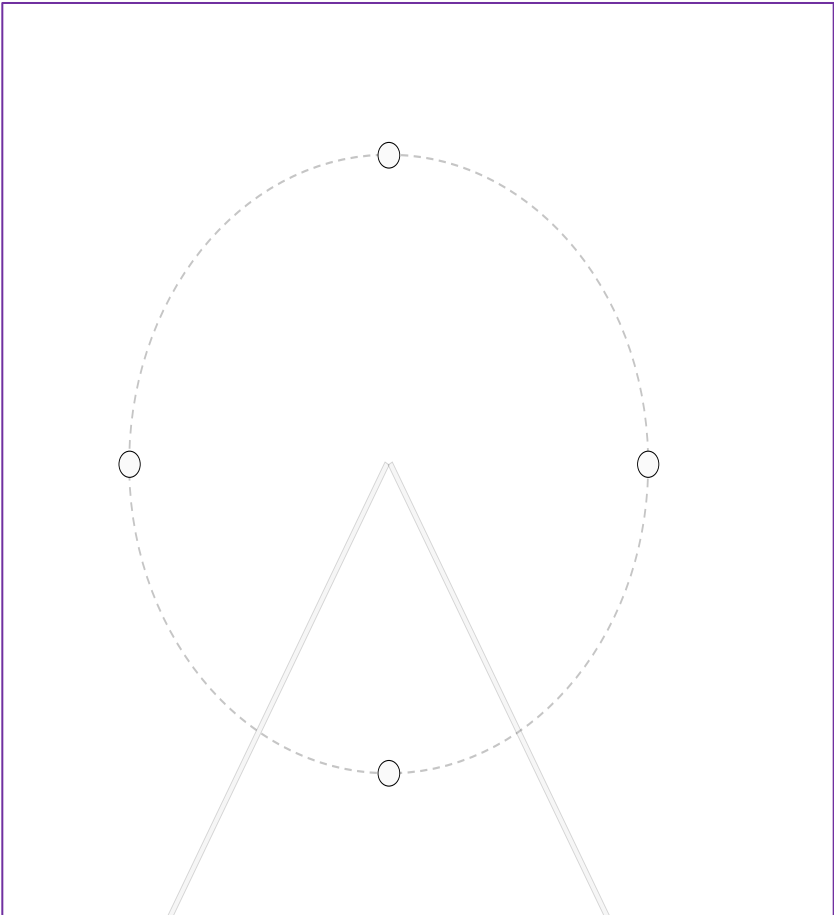
| Analysis Considerations |    |
|-------------------------|----|
| TIA-222 Revision        | I  |
| Grout Considered:       | No |
| $I_{ar}$ (in)           | 0  |

| Applied Loads      |       |        |
|--------------------|-------|--------|
|                    | Comp. | Uplift |
| Axial Force (kips) | 4.29  | 0.00   |
| Shear Force (kips) | 0.01  | 0.00   |

\*TIA-222-I Section 15.5 Applied

| Considered Eccentricity   |       |
|---------------------------|-------|
| Leg Mod Eccentricity (in) | 0.000 |
| Anchor Rod N.A Shift (in) | 0.000 |
| Total Eccentricity (in)   | 0.000 |

\*Anchor Rod Eccentricity Applied



| Connection Properties | Analysis Results |
|-----------------------|------------------|
|-----------------------|------------------|

| Anchor Rod Data                                                          |
|--------------------------------------------------------------------------|
| (4) 1/2" $\phi$ bolts (HILTI KWIK TZ N; $F_y$ =84.8 ksi, $F_u$ =106 ksi) |
| $I_{ar}$ (in): 0                                                         |

| Anchor Rod Summary |                         |               | (units of kips, kip-in) |
|--------------------|-------------------------|---------------|-------------------------|
| $P_{u\_c}$ = 1.07  | $\phi P_{n\_c}$ = 14.99 | Stress Rating |                         |
| $V_u$ = 0          | $\phi V_n$ = 6.74       | 6.8%          |                         |
| $M_u$ = n/a        | $\phi M_n$ = n/a        | Pass          |                         |

## SST on Mat Foundation - TIA-222-I

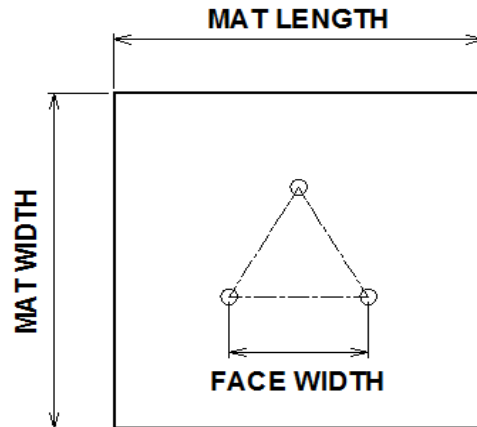
### Site Data

Site Name: Jackson DT  
TEP Job Number: 309257.1151610  
Client Job Number: BU 831885

### Factored Reactions from TNX

|        |  |      |
|--------|--|------|
| Axial  |  | k    |
| Shear  |  | k    |
| Moment |  | k-ft |

\*Factored Reactions from TNX assumed LC 1.2D+1.0W



### Tower & Foundation Properties

|                  |        |     |
|------------------|--------|-----|
| Tower Face Width | 11.583 | ft  |
| Mat Thickness    | 3.0    | ft  |
| Mat Width        | 15.0   | ft  |
| Mat Length       | 15.0   | ft  |
| Concrete Weight  | 150    | pcf |
| Concrete f'c     | 4000   | psi |

### Soil Properties

|               |     |     |
|---------------|-----|-----|
| $q_{allow}$   | 3.5 | ksf |
| FS            | 2.0 |     |
| Subgrade Mod. | 126 | kcf |

### Mat Foundation Results

Max Bearing Stress 1.88 ksf  
Bearing Capacity,  $\phi q_{allow}$  5.25 ksf  
% Capacity\* 34.2% **Pass**

### Mat Flexural Results

Mat Flexure (from RISA) 273.42 k-ft  
Flexural Capacity,  $\phi M_n$  1702.1 k-ft  
% Capacity\* 15.3% **Pass**

\* Rating per TIA-222-I Section 15.5

## RECTANGULAR CONCRETE BEAM/SECTION ANALYSIS

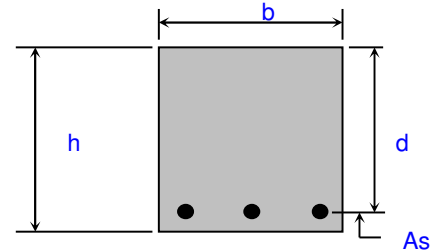
### Ultimate Moment Capacity of Singly or Doubly Reinforced Sections

Per ACI 318-11 Code

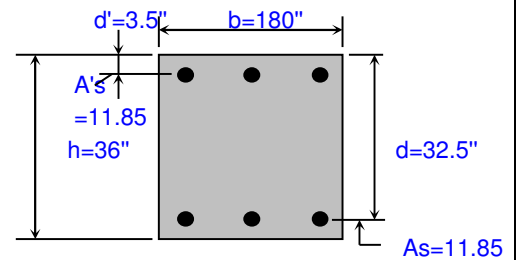
|             |                        |             |     |
|-------------|------------------------|-------------|-----|
| Job Name:   | Jackson DT (BU 831885) | Subject:    |     |
| Job Number: | 309257.1151610         | Originator: | PRS |
|             |                        | Checker:    | SMS |

#### Input Data:

|                                     |         |         |
|-------------------------------------|---------|---------|
| Beam or Slab Section?               | Slab    |         |
| Reinforcing Yield Strength, $f_y$ = | 60      | ksi     |
| Concrete Comp. Strength, $f_c'$ =   | 4       | ksi     |
| Slab Section Width, $b$ =           | 180.000 | in.     |
| Depth to Tension Reinforcing, $d$ = | 32.500  | in.     |
| Total Slab Section Depth, $h$ =     | 36.000  | in.     |
| Ultimate Design Moment, $M_u$ =     | 273.42  | ft-kips |
| Tension Reinforcing, $A_s$ =        | 11.850  | in.^2   |
| Depth to Compression Reinf., $d'$ = | 3.500   | in.     |
| Compression Reinforcing, $A_s'$ =   | 11.850  | in.^2   |



**Singly Reinforced Section**



**Doubly Reinforced Section**

(Note: this worksheet excludes sections that qualify as "Deep Beams" per ACI 318-11 Code, Section 10.7.)

#### Results:

##### Stress Block Data:

|             |           |                                                             |
|-------------|-----------|-------------------------------------------------------------|
| $\beta_1$ = | 0.85      | $\beta_1 = 1.05 - 0.05 \cdot f'_c \geq 0.65$                |
| $c$ =       | 1.367 in. | $c = (A_s \cdot f_y) / (0.85 \cdot f'_c \cdot b) / \beta_1$ |
| $a$ =       | 1.162 in. | $a = \beta_1 \cdot c$                                       |

##### Reinforcing Criteria:

|                       |                                 |                                                                                                                                                                                                                                                                                                                |
|-----------------------|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| $\rho$ =              | 0.00203                         | $\rho = A_s / (b \cdot d)$                                                                                                                                                                                                                                                                                     |
| $\rho_b$ =            | 0.02851                         | $\rho_b = 0.85 \cdot \beta_1 \cdot f'_c / f_y \cdot (87 / (87 + f_y))$                                                                                                                                                                                                                                         |
| $\rho(\min)$ =        | 0.00333                         | $\rho(\min) \geq 3 \cdot \text{SQRT}(f'_c) / f_y \geq 200 / f_y$                                                                                                                                                                                                                                               |
| $A_s(\min)$ =         | N.A.                            | $A_s(\min) = \rho(\min) \cdot b \cdot d$                                                                                                                                                                                                                                                                       |
| $\rho(\text{temp})$ = | 0.00180                         | $\rho(\text{temp}) = 0.0018 \cdot 60 / f_y$ for $f_y \geq 60$ , else $0.002 - 0.00002 \cdot (f_y - 50)$                                                                                                                                                                                                        |
| $A_s(\text{temp})$ =  | 11.664 in. <sup>2</sup> (total) | $A_s(\text{temp}) = \rho(\text{temp}) \cdot b \cdot h$                                                                                                                                                                                                                                                         |
| $\rho(\max)$ =        | 0.02064                         | $\rho(\max) = A_s(\max) / (b \cdot d)$                                                                                                                                                                                                                                                                         |
| $A_s(\max)$ =         | 120.761 in. <sup>2</sup>        | $A_s(\max) = \rho(\max) \cdot b \cdot d$ for singly reinforced, or for doubly reinforced:<br>$A_s(\max) = (0.85 \cdot f'_c \cdot \beta_1 \cdot c \cdot b + A'_s \cdot (c - d') / c \cdot e_c \cdot E_s) / f_y$ for $c = \epsilon_c \cdot d' / (\epsilon_c + 0.004)$<br>$\geq A_s = 11.85 \text{ in.}^2$ , O.K. |

##### Ultimate Moment Capacity:

|                 |                 |                                                                                                                                                                                                                                                      |
|-----------------|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| $\epsilon'_s$ = | N.A.            | $\epsilon'_s = \epsilon_c \cdot (c - d') / c$ < $f_y / E_s$ , $f'_s$ does not yield                                                                                                                                                                  |
| $f'_s$ =        | N.A.            | $f'_s = \epsilon'_s \cdot E_s$ < $f_y / E_s$ , $f'_s$ does not yield                                                                                                                                                                                 |
| $\epsilon_t$ =  | 0.06834         | $\epsilon_t = \epsilon_c \cdot (d - c) / c \geq 0.005$ , Tension-controlled                                                                                                                                                                          |
| $\phi$ =        | 0.900           | $\phi = 0.65 + 0.25 \cdot (\epsilon_t - f_y / E_s) / (0.005 - f_y / E_s) \leq 0.90$                                                                                                                                                                  |
| $\phi M_n$ =    | 1702.09 ft-kips | for singly reinforced: $\phi M_n = \phi \cdot (A_s \cdot f_y \cdot (d - a / 2))$<br>for doubly reinforced: $\phi M_n = \phi \cdot (A_s \cdot f_y \cdot (d - a / 2) + A'_s \cdot f'_s \cdot (d - d'))$<br>$\geq M_u = 273.415 \text{ ft-kips}$ , O.K. |

#### Comments:

# Drilled Pier Foundation

|                   |               |
|-------------------|---------------|
| BU # :            | 831885        |
| Site Name:        | Jackson DT    |
| Order Number:     | 708594 Rev. 2 |
| TIA-222 Revision: | I             |
| Tower Type:       | Self Support  |

| Applied Loads      |        |        |
|--------------------|--------|--------|
|                    | Comp.  | Uplift |
| Moment (kip-ft)    | 18.396 | 19.472 |
| Axial Force (kips) | 43.222 | 31.715 |
| Shear Force (kips) | 2.693  | 2.681  |

| Material Properties      |    |     |
|--------------------------|----|-----|
| Concrete Strength, f'c:  | 4  | ksi |
| Rebar Strength, Fy:      | 60 | ksi |
| Tie Yield Strength, Fyt: | 60 | ksi |

| Pier Design Data                        |      |    |
|-----------------------------------------|------|----|
| Depth                                   | 2    | ft |
| Ext. Above Grade                        | 0.5  | ft |
| Pier Section 1                          |      |    |
| From 0.5' above grade to 2' below grade |      |    |
| Pier Diameter                           | 3.25 | ft |
| Rebar Quantity                          | 8    |    |
| Rebar Size                              | 8    |    |
| Clear Cover to Ties                     | 3    | in |
| Tie Size                                | 4    |    |
| Tie Spacing                             | 4    | in |

Rebar & Pier Options  
Embedded Pole Inputs  
Belled Pier Inputs

## Analysis Results

| Reinforced Concrete Flexure  | Compression | Uplift |
|------------------------------|-------------|--------|
| Critical Depth (ft from TOC) | 0.62        | 0.61   |
| Critical Moment (kip-ft)     | 19.91       | 21.23  |
| Critical Moment Capacity     | 501.15      | 422.39 |
| Rating*                      | 3.8%        | 4.8%   |
| Reinforced Concrete Shear    | Compression | Uplift |
| Critical Depth (ft from TOC) | 1.56        | 1.56   |
| Critical Shear (kip)         | 21.10       | 22.58  |
| Critical Shear Capacity      | 316.77      | 232.72 |
| Rating*                      | 6.3%        | 9.2%   |

|                               |      |
|-------------------------------|------|
| Structural Foundation Rating* | 9.2% |
|-------------------------------|------|

\*Rating per TIA-222-I Section 15.5

| Soil Profile      |     |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-------------------|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Groundwater Depth | N/A |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                   |     |  |  |  |  |  |  |  |  |  |  |  |  |  |

| Layer | Top (ft) | Bottom (ft) | Thickness (ft) | Y <sub>soil</sub> (pcf) | Y <sub>concrete</sub> (pcf) | Cohesion (ksf) | Angle of Friction (degrees) | Calculated Ultimate Skin Friction Comp (ksf) | Calculated Ultimate Skin Friction Uplift (ksf) | Ultimate Skin Friction Comp Override (ksf) | Ultimate Skin Friction Uplift Override (ksf) | Ult. Net Bearing Capacity (ksf) | SPT Blow Count | Soil Type |
|-------|----------|-------------|----------------|-------------------------|-----------------------------|----------------|-----------------------------|----------------------------------------------|------------------------------------------------|--------------------------------------------|----------------------------------------------|---------------------------------|----------------|-----------|
| 1     | 0        | 2           | 2              | 105                     | 150                         | 0.001          | 0                           | 0.001                                        | 0.001                                          | 0.00                                       | 0.00                                         | 7                               |                | Cohesive  |



| Check Limitation                      |                                     |
|---------------------------------------|-------------------------------------|
| Apply TIA-222-I Section 15.5:         | <input checked="" type="checkbox"/> |
| Apply TIA-222-I Section 15.7:         | <input type="checkbox"/>            |
| Design Options                        |                                     |
| Input Effective Depths (else Actual): | <input type="checkbox"/>            |
| Consider non-tapered moment capacity: | <input type="checkbox"/>            |
| Check Shear along Depth of Pier:      | <input checked="" type="checkbox"/> |
| Utilize Shear-Friction Methodology:   | <input type="checkbox"/>            |
| Override Critical Depth:              | <input type="checkbox"/>            |

[Go to Soil Calculations](#)

# Drilled Pier Foundation

|                   |               |
|-------------------|---------------|
| BU # :            | 831885        |
| Site Name:        | Jackson DT    |
| Order Number:     | 708594 Rev. 2 |
| TIA-222 Revision: | I             |
| Tower Type:       | Self Support  |

| Applied Loads      |       |        |
|--------------------|-------|--------|
|                    | Comp. | Uplift |
| Moment (kip-ft)    | 0.622 | 0.577  |
| Axial Force (kips) | 5.761 | 2.544  |
| Shear Force (kips) | 0.146 | 0.158  |

| Material Properties      |    |     |
|--------------------------|----|-----|
| Concrete Strength, f'c:  | 4  | ksi |
| Rebar Strength, Fy:      | 60 | ksi |
| Tie Yield Strength, Fyt: | 60 | ksi |

| Pier Design Data                        |     |    |
|-----------------------------------------|-----|----|
| Depth                                   | 2   | ft |
| Ext. Above Grade                        | 0.5 | ft |
| Pier Section 1                          |     |    |
| From 0.5' above grade to 2' below grade |     |    |
| Pier Diameter                           | 2   | ft |
| Rebar Quantity                          | 5   |    |
| Rebar Size                              | 5   |    |
| Clear Cover to Ties                     | 3   | in |
| Tie Size                                | 4   |    |
| Tie Spacing                             | 6   | in |

Rebar & Pier Options  
Embedded Pole Inputs  
Belled Pier Inputs

## Analysis Results

| Reinforced Concrete Flexure  | Compression | Uplift |
|------------------------------|-------------|--------|
| Critical Depth (ft from TOC) | 0.67        | 0.69   |
| Critical Moment (kip-ft)     | 0.71        | 0.67   |
| Critical Moment Capacity     | 59.84       | 53.95  |
| Rating*                      | 1.1%        | 1.2%   |
| Reinforced Concrete Shear    | Compression | Uplift |
| Critical Depth (ft from TOC) | 1.59        | 1.59   |
| Critical Shear (kip)         | 0.77        | 0.73   |
| Critical Shear Capacity      | 122.92      | 94.10  |
| Rating*                      | 0.6%        | 0.7%   |

|                               |      |
|-------------------------------|------|
| Structural Foundation Rating* | 1.2% |
|-------------------------------|------|

\*Rating per TIA-222-I Section 15.5

| Soil Profile      |     |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-------------------|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Groundwater Depth | N/A |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                   |     |  |  |  |  |  |  |  |  |  |  |  |  |  |

| Layer | Top (ft) | Bottom (ft) | Thickness (ft) | Y <sub>soil</sub> (pcf) | Y <sub>concrete</sub> (pcf) | Cohesion (ksf) | Angle of Friction (degrees) | Calculated Ultimate Skin Friction Comp (ksf) | Calculated Ultimate Skin Friction Uplift (ksf) | Ultimate Skin Friction Comp Override (ksf) | Ultimate Skin Friction Uplift Override (ksf) | Ult. Net Bearing Capacity (ksf) | SPT Blow Count | Soil Type |
|-------|----------|-------------|----------------|-------------------------|-----------------------------|----------------|-----------------------------|----------------------------------------------|------------------------------------------------|--------------------------------------------|----------------------------------------------|---------------------------------|----------------|-----------|
| 1     | 0        | 2           | 2              | 105                     | 150                         | 0.001          | 0                           | 0.001                                        | 0.001                                          | 0.00                                       | 0.00                                         | 7                               |                | Cohesive  |



| Check Limitation                      |                                     |
|---------------------------------------|-------------------------------------|
| Apply TIA-222-I Section 15.5:         | <input checked="" type="checkbox"/> |
| Apply TIA-222-I Section 15.7:         | <input type="checkbox"/>            |
| Design Options                        |                                     |
| Input Effective Depths (else Actual): | <input type="checkbox"/>            |
| Consider non-tapered moment capacity: | <input type="checkbox"/>            |
| Check Shear along Depth of Pier:      | <input checked="" type="checkbox"/> |
| Utilize Shear-Friction Methodology:   | <input type="checkbox"/>            |
| Override Critical Depth:              | <input type="checkbox"/>            |

[Go to Soil Calculations](#)



**PLANNING PERMIT APPLICATION**  
**Planning & Building Department**

150 E Pearl Ave. | ph: (307) 733-0440  
P.O. Box 1687 | [www.townofjackson.com](http://www.townofjackson.com)  
Jackson, WY 83001

**For Office Use Only**

Fees Paid \_\_\_\_\_ Date & Time Received \_\_\_\_\_  
Application #s \_\_\_\_\_

**Please note:** Applications received after 3 PM will be processed the next business day.

**PROJECT.**

Name/Description: 831885\_708594 - T-Mobile Anchor  
Physical Address: 275 North Willow St.  
Lot, Subdivision: \_\_\_\_\_ PIDN: 22-41-16-27-3-00-022

**PROPERTY OWNER.**

Name: Redeemer Lutheran Church Phone: \_\_\_\_\_  
Mailing Address: PO Box 1016, Jackson, WY ZIP: 83001  
E-mail: \_\_\_\_\_

**APPLICANT/AGENT.**

Name: T-Mobile West LLC, by Sarah Baird, Crown Castle USA Inc. Phone: 206-336-3204  
Mailing Address: 6210 Fleming St., Everett, WA ZIP: 98203  
E-mail: sarah.baird@crowncastle.com

**DESIGNATED PRIMARY CONTACT.**

\_\_\_\_\_ Property Owner \_\_\_\_\_ Applicant/Agent

**TYPE OF APPLICATION.** Please check all that apply; review the type of application at [www.townofjackson/200/Planning](http://www.townofjackson/200/Planning)

**Use Permit**

\_\_\_\_\_ Basic Use  
\_\_\_\_\_ Conditional Use  
\_\_\_\_\_ Special Use

**Relief from the LDRs**

\_\_\_\_\_ Administrative Adjustment  
\_\_\_\_\_ Variance  
\_\_\_\_\_ Beneficial Use Determination  
\_\_\_\_\_ Appeal of an Admin. Decision

**Physical Development**

\_\_\_\_\_ Sketch Plan  
\_\_\_\_\_ Development Plan  
\_\_\_\_\_ Design Review

**Subdivision/Development Option**

\_\_\_\_\_ Subdivision Plat  
\_\_\_\_\_ Boundary Adjustment (replat)  
\_\_\_\_\_ Boundary Adjustment (no plat)  
\_\_\_\_\_ Development Option Plan

**Interpretations**

\_\_\_\_\_ Formal Interpretation  
\_\_\_\_\_ Zoning Compliance Verification

**Amendments to the LDRs**

\_\_\_\_\_ LDR Text Amendment  
\_\_\_\_\_ Map Amendment

**Miscellaneous**

\_\_\_\_\_ Other: Eligible Facilities Request  
\_\_\_\_\_ Environmental Analysis

**PRE-SUBMITTAL STEPS.** To see if pre-submittal steps apply to you, go to [www.townofjackson.com/200/Planning](http://www.townofjackson.com/200/Planning) and select the relevant application type for requirements. Please submit all required pre-submittal steps with application.

Pre-application Conference #: \_\_\_\_\_ Environmental Analysis #: \_\_\_\_\_

Original Permit #: \_\_\_\_\_ Date of Neighborhood Meeting: \_\_\_\_\_

**SUBMITTAL REQUIREMENTS.** Please ensure all submittal requirements are included. The Planning Department will not hold or process incomplete applications. Partial or incomplete applications will be returned to the applicant. Go to [www.townofjackson.com/200/Planning](http://www.townofjackson.com/200/Planning) and select the relevant application type for submittal requirements.

Have you attached the following?

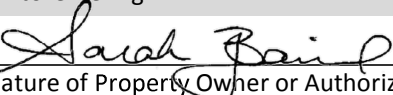
\_\_\_\_\_ **Application Fee.** Fees are cumulative. Go to [www.townofjackson.com/200/Planning](http://www.townofjackson.com/200/Planning) and select the relevant application type for the fees.

☒ **Notarized Letter of Authorization.** A notarized letter of consent from the landowner is required if the applicant is not the owner, or if an agent is applying on behalf of the landowner. Please see the Letter of Authorization template at <http://www.townofjackson.com/DocumentCenter/View/845/LetterOfAuthorization-PDF>.

\_\_\_\_\_ **Response to Submittal Requirements.** The submittal requirements can be found on the TOJ website for the specific application. If a pre-application conference is required, the submittal requirements will be provided to applicant at the conference. The submittal requirements are at [www.townofjackson.com/200/Planning](http://www.townofjackson.com/200/Planning) under the relevant application type.

**Note:** Information provided by the applicant or other review agencies during the planning process may identify other requirements that were not evident at the time of application submittal or a Pre-Application Conference, if held. Staff may request additional materials during review as needed to determine compliance with the LDRs.

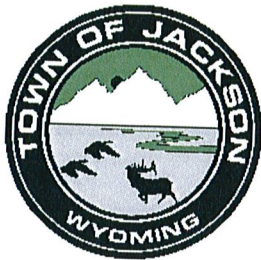
Under penalty of perjury, I hereby certify that I have read this application and associated checklists and state that, to the best of my knowledge, all information submitted in this request is true and correct. I agree to comply with all county and state laws relating to the subject matter of this application, and hereby authorize representatives of Teton County to enter upon the above-mentioned property during normal business hours, after making a reasonable effort to contact the owner/applicant prior to entering.

  
\_\_\_\_\_  
Signature of Property Owner or Authorized Applicant/Agent

T-Mobile West LLC, by Sarah Baird, Crown Castle USA Inc.  
\_\_\_\_\_  
Name Printed

10/16/2025  
\_\_\_\_\_  
Date

Permitting Specialist  
\_\_\_\_\_  
Title



Town of Jackson  
150 E Pearl Avenue  
PO Box 1687, Jackson, WY 83001  
P: (307)733-3932 F: (307)739-0919  
www.jacksonwy.gov

Date:

## LETTER OF AUTHORIZATION

### NAMING APPLICANT AS OWNER'S AGENT

**PRINT** full name of property owner as listed on the deed when it is an individual OR print full name and title of President or Principal Officer when the owner listed on the deed is a corporation or an entity other than an individual: Ron Campbell Title: President

Being duly sworn, deposes and says that Redeemer Lutheran Church is the owner in fee of the premises located at: \_\_\_\_\_  
Name of legal property owner as listed on deed

Address of Premises: 275 North Willow St., Jackson, WY 83001

Legal Description: PT. SW1/4SW1/4 SEC. 27, TWP. 41, RNG. 116 (CHURCH)

Please attach additional sheet for additional addresses and legal descriptions

And, that the person named as follows: Name of Applicant/agent: Sarah Baird, Crown Castle

Mailing address of Applicant/agent: 8020 Katy Freeway, Houston, TX 77024

Email address of Applicant/agent: sarah.baird@crowncastle.com

Phone Number of Applicant/agent: 206-336-3204

Is authorized to act as property owner's agent and be the applicant for the application(s) checked below for a permit to perform the work specified is this(these) application(s) at the premises listed above:

- ☐ Development/Subdivision Plat Permit Application ☒ Building Permit Application  
☐ Public Right of Way Permit ☐ Grading and Erosion Control Permit ☐ Business License Application  
☐ Demolition Permit ☐ Home Occupation ☒ Other (describe) Eligible Facilities Request

Under penalty of perjury, the undersigned swears that the foregoing is true and, if signing on behalf of a corporation, partnership, limited liability company or other entity, the undersigned swears that this authorization is given with the appropriate approval of such entity, if required.

Property Owner Signature

R Campbell  
President

Title if signed by officer, partner or member of corporation, LLC (secretary or corporate owner) partnership or other non-individual Owner

STATE OF Wyoming )  
COUNTY OF Teton ) SS.

The foregoing instrument was acknowledged before me by Ron Campbell this 4th day of August. WITNESS my hand and official seal.

Notary Public

VICTORIA E BOTT  
Public - State of Wyoming  
My commission expires: # 144061  
My Commission Expires  
March 30, 2030

March 30, 2030