

TOWN OF AUSTERLITZ

Columbia County
New York

Lee Tilden

Planning Board Chairman

**Planning Board Meeting/Public Hearing
March 4, 2021
7:00 p.m.**

*******AGENDA*******

- 1.)Public Hearing: PL-2021-1**
- 2.) Close Public Hearing**
- 3.) Open Regular Planning Board Meeting**
- 4.) Moment of Silence, Followed by the Pledge of Allegiance**
- 5.) Roll Call**
- 6.) Minutes**
- 7.) Old Business**
 - A.) PL-2020-03 Special Use Permit Robert Beckmann**
 - B.) PL-2021-01 Special Use Permit 648 State Rte 203 LLC**
- 8.) New Business**
 - A.) PL-2021-02 Special Use Permit**
- 9.) Public Comment**
- 10.) Adjournment**

Town of Austerlitz
Planning Board Meeting
February 4, 2021

The February 4, 2021 Planning Board Meeting was held via Zoom in accordance with the Governor's Executive Order 202.1. Meeting instructions were on the Town website.

Present: Lee Tilden, Chair, Deborah Lans, Eric Sieber, Jane Magee and Perry Samowitz, Members. Susan Haag, Town Clerk also present.

Applicant Andy Didio, Taconic Engineering, DPC and property owner Dale Madsen in attendance.

Meeting called to order at 7:00 P.M.

Moment of Silence, followed by Pledge of Allegiance.

Minutes

A motion to accept the January 7, 2021 Planning Board minutes was made by D. Lans and seconded by J. Magee.

Lee Tilden: yes

Deborah Lans: yes

Eric Sieber: yes

Perry Samowitz: yes

Jane Magee: yes

Motion carried 5:0

Reference Material

MAR 04 2021

Planning Board Meeting

Old Business

Planning Board Application #3-2020.

Property Owner: Otto Maier

Applicant: Robert Beckmann

Project Property: 309 Rigor Hill Road SBL:94.-1-15

Zoning: Rural Residential

Project: The proposed project consists of building and using an auto repair and towing facility, 40' x 60' one story building, 2400 Square feet. Site currently has a foundation. Was the site of O's Diner. Fenced in area for 20-30 vehicles.

No new documents were submitted for review. Applicant asked to hold over for the March 2021 meeting.

New Business

Planning Board Application #1-2021.

Property Owner: 648 Rte 203 LLC, Dale Madsen

Applicant: Taconic Engineering, DPC, Andy Didio

Project Property: 648 State Route 203 SBL:86.-1-10

Zoning: Rural Residential

Project: The proposed project consists of building a 4800 sf building, 26.4' tall at ridge line, 1 story and using the building for storage of construction equipment and materials.

Applicant Andy Didio noted the following as he screen shared and went over specs of the project:

*Pre-engineered building for storage of equipment with bump out on one side for ~~restrooms~~ **Restrooms Material**
Opposite side has covered wing.

*Cut into the bank slightly.

*Expanded parking area for truck turn around.

*Fill ravine and place an underground culvert for drainage.

*NYS Department of Health has been onsite and conducted drainage and perk testing. Project approval given by NYSDOH. Approval does note that site plan approval must be sent to the NYSDOH for their file. NYSDOH approval notice will be provided to the Town by the applicant.

*NYS Department of Transportation has also been onsite and approve State Route 203 entrance to site. Applicant to provide Town with NYSDOT approval notice.

*Erosion plan on maps discussed. Area of disturbance was identified and advised it was under an acre.

*Front elevation from State Route 203 noted and advised that screening will be done with trees. The only part of the building that can be seen from the road is the 3 doors in front.

*Sign shown in drawings on front of building will probably not be there per D. Madsen. A. Didio will check the Town of Austerlitz Code for sign regulations just in case.

Chairman Lee Tilden questioned if the restroom would only have a toilet and a sink and be the only one in the building. A. Didio answered that there may be 2 restrooms. One on the side as shown and maybe one in the main part of the building. Both would be hooked to the same septic system.

Chairman Tilden questioned if all the activity would happen in the building or would there be activity outside as well. A. Didio noted that equipment would be stored inside and the side area wing would hold material. There might be some equipment parked outside from time to time, but primarily the equipment would be inside. Dale Madsen advised that most of his equipment moves from job to job so little would be stored in the building. Equipment in the building would be there for maintenance and any parked outside would be there short term.

Chairman Tilden questioned lighting. A. Didio noted there would be outside lighting.

Planning Board Member Perry Samowitz questioned the exact area on State Route 203 this would be located. A. Didio screen shared a map of the area showing the section of State Route 203 where this project would be located. D. Madsen advised that the property previously was owned by Tom Whiffen. D. Madsen purchased the property, torn down the house and cleaned up around the area. Member Samowitz questioned the residential property on either side of this project. A. Didio advised that this area is a mix of residences and commercial properties.

Planning Board Member Deborah Lans questioned the layout of the area, whether uphill or flat. A. Didio advised that the land slides up gently, gradually.

Chairman Tilden asked if there would be any fencing. D. Madsen noted he was not planning on putting any up.

Chairman Tilden noted this project would require a public hearing according to code. If the Planning Board so chooses, a SEQRA determination could be rendered tonight and a public hearing scheduled for the next Planning Board Meeting.

In looking to SEQRA, Chairman Tilden noted that this project is located on the edge of a archaeological zone. A. Didio spoke concerning these 'hits' that sometimes happen and show up. No information is given as to what they are. The hit seems to be on the outskirts of the property. Chairman Tilden does not consider this a hinderance to the project.

Chairman Tilden believes this project falls under an unlisted action under SEQRA. Planning Board Member Jane Magee concurs. Chairman Tilden asks if there are any objections from the Planning Board. None were heard.

A motion to accept Planning Board Site Plan Application PL-2021-1 as complete was made by D. Lans and seconded by P. Samowitz.

By roll call vote:

Lee Tilden: yes

Deborah Lans: yes

Eric Sieber: yes

Perry Samowitz: yes

Jane Magee: yes

Motion carried 5:0

Reference Material

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A motion to designate Planning Board Site Plan Application PL-2021-1 as an unlisted action under SEQRA was made by E. Sieber and seconded by P. Samowitz.

By roll call vote:

Lee Tilden: yes

Deborah Lans: yes

Eric Sieber: yes

Perry Samowitz: yes

Jane Magee: yes

Motion carried 5:0

Chairman Tilden advised that the actual SERQA paperwork will be completed after the Public Hearing.

A motion to schedule a Public Hearing for Planning Board Site Plan Application PL-2021-01 for March 4, 2021 beginning at 7:00 p.m. via Zoom was made by D. Lans and seconded by E. Sieber.

Lee Tilden: yes

Deborah Lans: yes

Eric Sieber: yes

Perry Samowitz: yes
Jane Magee: yes
Motion carried 5:0

Chairman Tilden asked Dale Madsen if members of the Planning Board could visit the proposed site and was given permission to do so from D. Madsen.

Andy Didio asked whether the Planning Board wanted the short or long SEQRA form. A. Didio submitted the short form. Chairman Tilden believes the short form is sufficient since this is an unlisted action.

Andy Didio and Dale Madsen thanked the Planning Board.

L. Tilden discussed what was taught in a class given by the NY Planning Federation entitled Open Government in Planning and Zoning Decision Making. It was taught that a Planning or Zoning Board can visit the site of a project as a group versus individually. This is not considered a formal meeting therefore this visit does not need to be noticed and minutes do not need to be taken. The Board can not debate the application during this visit. This visit would only be for educational purposes and to gather information. Because these projects are on private property, a Board can not tell an applicant he has to have the public on his property.

In addition, information can be sent via email between board members. A board can not legislate, discuss or debate over email. Town Clerk Haag advised that any email correspondence is F.O.I.L.able regardless of whether a board member is using a private email address or not.

Public Commit

None

Adjournment

A motion to adjourn was made by P. Samowitz and seconded by J. Magee.

Lee Tilden: yes

Deborah Lans: yes

Eric Sieber: yes

Perry Samowitz: yes

Jane Magee: yes

Motion carried 5:0. Meeting adjourned at 7:33 p.m.

Respectfully Submitted,
Susan Haag, Town Clerk


Reference Material

MAR 04 2021

Planning Board Meeting

SHaag

From:
Sent:
To:


Tuesday, February 23, 2021 11:45 AM
SHaag

Richard Beckmann

Morning Sue, As per our phone conversation this morning. I am requesting that My Application for site plan review (O's Diner) be put on a 3 month hold. Due to circumstances beyond my control I will have to forgo proceeding forward at this time. Thank You for your patience.. Bob Beckmann



Reference Material

MAR 04 2021

Planning Board Meeting

**Town of Austerlitz Planning Board
Application for Site Plan Review/Special Use Permit**

Reference Material

MAR 04 2021

Planning Board Meeting

Application Date: 2 / 9 / 2021

Approval Request for: (check all that apply)

Site Plan ☒ Site Plan Amendment ☐ Special Use Permit ☒

Applicant: Name: Taconic Engineering, DPC Email: adidio@taconicengineering.com

Mailing Address: PO Box 272

City: Chatham State: NY Zip: 12037 Telephone: (518)-392-6660

Owner: If different than applicant, if more than one owner provide information for each on separate sheet

Name: 648 Rte 203 LLC ^{c/o Dale} Email: madsen@fairpoint.net
Madsen

Street Address: 238 Schoolhouse Road

City: Ghent State: NY Zip: 12075 Telephone: _____

Project Information: Tax Map Number: 86.-2-10 Parcel Acreage 7.40

Location of Project/Street Address: 648 Route 203, Austerlitz, NY, 12165

Current Land Use of Site: None, previously residential

Current Condition of Site: Partially developed (existing driveway)

Character of abutting parcels: Residential, suburban, office

Reference Material

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Proposed Use(s) of site:

☐ Utilities

☐ Multi-family project

☐ In-Home Business

☒ Commercial Project

☐ Other (describe use below)

Detailed Description of Proposed Use, including primary and secondary uses (use separate sheet if necessary):

Storage of construction equipment and materials

Description of buildings to be used height, number of stories, square feet:

For residential projects include the number of dwelling units and size in square feet

4,800 sf building, 26.4' tall at ridge line, 1 story

Is the property within 500 feet of ?

☐ A municipal boundary

☐ County or State Park or recreation either existing or proposed

☒ State or County road or right-of-way, either existing or proposed

☐ State or County owned building or institution

☐ Stream or drainage channel owned by County or for which channel lines have been established

☐ Active farm operation within an Agricultural District

If any of the above is true the site plan must also be reviewed by the County Planning Board.

Applicants Signature: 

Date: 2/9/21

FOR OFFICE USE ONLY

Date Received: _____ Project ID: _____

Preliminary Review Date: _____ Final Review Date: _____

Final Decision: _____ Site Plan Unnecessary _____ Approved

_____ Approved with conditions _____ Denied



Columbia County Department of Health

325 Columbia Street, Suite 100, Hudson, NY 12534
(518) 828-3358 Fax (518) 828-2666
www.columbiacountyny.com

John J. Mabb, MA
Public Health Director

January 26, 2021

Mr. Dale Madsen
Madsen Excavation
238 Schoolhouse Road
Ghent, NY 12075

Reference Material

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Re: Confirmation of Soils Testing
Tax Map # 86-2-10 (5.52 Acres)
648 SR 203
T/O Austerlitz

Dear Mr. Madsen,

This letter is to confirm that deep tests were witnessed at the above-referenced property (on January 19, 2021) to determine the suitability for onsite sewage treatment to serve a proposed work shop for your construction business that will house seven (7) employees.

Deep tests were prepared for witness on a flat area up gradient from the proposed building structure and parking area.

The results of the deep tests indicate 12 to 15 inches of permeable topsoil overlying dense mottled silt loam soils with seepage at 18" below existing grade.

Based upon the above, the requirements for onsite wastewater treatment are as follows:

1. Install a 1,000 gallon concrete seamless septic tank (preferably fitted with PVC sanitary tees on both the inlet and outlet of the tank).
2. Install a 40 foot long by 25 foot wide by 4 foot deep raised bed fill system to contain 4-35 foot trenches at 6 foot on center spacing with a 20 foot perimeter berm consisting of a denser material or onsite excavation spoils. The run of bank (ROB) septic fill material should be perc-tested prior to placement of the trenches. The tiles shall be placed shallow (i.e. no deeper than 18 inches below final topsoil grade).
3. Install a 500 gallon concrete dose tank with the on/off settings set for a 70 gallon dose. The pump tank must be vented and the reservoir level in the tank (off setting) should cover the pump to keep cool.

As stated during our field visit, a site plan review from the town will be required where a survey map depicting the proposed structure, parking area and appurtenant utilities, including the proposed well and septic system layout will be shown.

A copy of this map should be submitted to the department for the approval to remain in effect.

If you should have any further questions, please call me at (518) 828-3158 Ext. 1238

Sincerely,



Michael S. DeRuzzio, P.E.
Environmental Health Engineer

CC: Glenn Smith, Austerlitz Building Inspector/Town Code Enforcement Officer

Reference Material

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Andy Didio

From: Dale Madsen <madsen@fairpoint.net>
Sent: Wednesday, January 20, 2021 10:28 AM
To: Andy Didio
Subject: Fwd: Std Minor Commercial Dwy Detail
Attachments: Commercial D-Way (002).pdf

Sent from my iPhone

Begin forwarded message:

From: "Reilly, Tina (DOT)" <Tina.Reilly@dot.ny.gov>
Date: January 20, 2021 at 9:04:11 AM EST
To: madsen@fairpoint.net
Subject: Std Minor Commercial Dwy Detail

Reference Material
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Good morning, Dale ~

Attached is our standard commercial driveway detail. As discussed, a 20' width driveway is preferred (24' is shown on the detail). As we also discussed, you don't need to install curb at this site just swale the end of the driveway to continue the ditch line to the low side. You'll sawcut at the outside edge of white line and start the full-depth shoulder from there. If you wish to do anything different, please let me know and we can discuss.

If you need any other information, please don't hesitate to contact me.

Thank you,

Tina J. Reilly

Permit Engineer / ARE, Residency 8-1

New York State Department of Transportation, Hudson Valley Region

307 Route 66, Hudson, NY 12534

315.534.3111 | Tina.Reilly@dot.ny.gov





Columbia County, New York
Planning Board

VIA EMAIL ONLY

16 February 2021

Mr. Lee Tilden, Chairman
Town of Austerlitz Planning Board
P.O. Box 238
Spencertown, New York 12165
gfd381@earthlink.net

Reference Material

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RE: Referral #21-006V – Taconic Engineering DPC (Dale Madsen), Site Plan Review

Dear Chairman Tilden:

Pursuant to the provisions of New York State General Municipal Law (NYSGML) §239-1 and §239-m, please find the Columbia County Planning Board (CCPB) recommendation concerning the request of the Taconic Engineering DPC (Dale Madsen) for Site Plan Review. The proposed action is to construct a commercial storage building. The site is located at 648 Route 203 in the Town of Austerlitz, New York.

Pursuant to NYSGML §239-1 and §239-m, the CCPB reviews proposed actions for inter-community or county-wide considerations and shall recommend Approval, Modification or Disapproval of the proposed action, or report that the proposed action has no significant county-wide or intercommunity impact. Upon recommendation of Modification or Disapproval, "...the referring body shall not act contrary to such recommendation except by a vote of majority plus one of all the members thereof". The CCPB may make informal comments to the referring body on the proposed action with any of the recommendations made.

Recommendation: The CCPB finds that this proposed action has no significant county-wide or intercommunity impacts associated with it. Therefore, the Town of Austerlitz Planning Board may take final action with a simple majority vote. However, the following informal comments are offered for consideration:

Comments:

1. Access: The CCPB notes that the proposed improvements required for the commercial access off of NYS Route 203 require review and approval by the New York State Department of Transportation (NYSDOT), and that this process is underway.
2. Septic: The CCPB notes that the applicant submitted an application to Columbia County Department of Health for the proposed on-lot septic system and the review process is underway.

Referral #21-006V – Taconic Engineering DPC (Dale Madsen), Site Plan Review

3. Parcel Size: The site plan submitted denotes the lot acreage as 5.520 acres, and the Short Environmental Assessment Plan (SEAF) indicates that the site is 7.4 acres. Clarification is necessary.
4. Well: The CCPB suggests that the well location be delineated on the site plan

Please note that within thirty (30) days after final action is taken, the Town of Austerlitz Planning Board shall file a report of the final action it has taken with the CCPB. Please contact Columbia County Planning Department at 518.828.3375 or patrice.perry@columbiacountyny.com for additional information.

Sincerely yours,



Timothy Stalker
Chair

Cc: Susan Haag, Town Clerk, Town of Austerlitz - SHAag@austerlitzny.com

Reference Material

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**TOWN OF AUSTERLITZ NEW YORK
BUILDING PERMIT APPLICATION**

TAX MAP # 10220-87.-2-51.112

Expiration Date: _____

Permit # _____

Permit fee _____

1. LOCATION:

House No. 321 Road Name West Hill Road

Subdivision Name & Lot No. (if any) _____

2. PROPERTY OWNER Columbia County PHONE _____CURRENT ADDRESS 401 State StreetCITY & STATE Hudson, NY ZIP 125343. CONTRACT OR BUILDER Crown Castle USA PHONE 585-445-5896

CURRENT ADDRESS _____

CITY & STATE 4545 East River Road, Suite 320, West Henrietta, NY ZIP 145864. ZONING DISTRICT ☐ RR - RURAL RESIDENTIAL ☒ A - HM AUSTERLITZ HAMLET ☐ S - HM SPENCERTOWN HAMLET5. EXISTING USE & OCCUPANCY: telecom facility6. INTENDED USE & OCCUPANCY: telecom facility7. NATURE OF WORK: ☐ NEW BUILDING ☒ ADDITION ☐ ALTERATION ☐ DECK ☐ SHED ☐ SWIMMING POOL☐ DEMOLITION ☐ OTHER8. ADDITIONAL DESCRIPTION T-Mobile proposing to add eight (8) antennas and ancillary equipment to existing cell tower.T-Mobile also proposing a 16'x21" compound expansion to accommodate new equipment cabinets as well as a 40kw diesel backup generator. See enclosed drawings for additional detail.

9. WILL THIS PROPOSAL: (Please answer yes or no to each question)

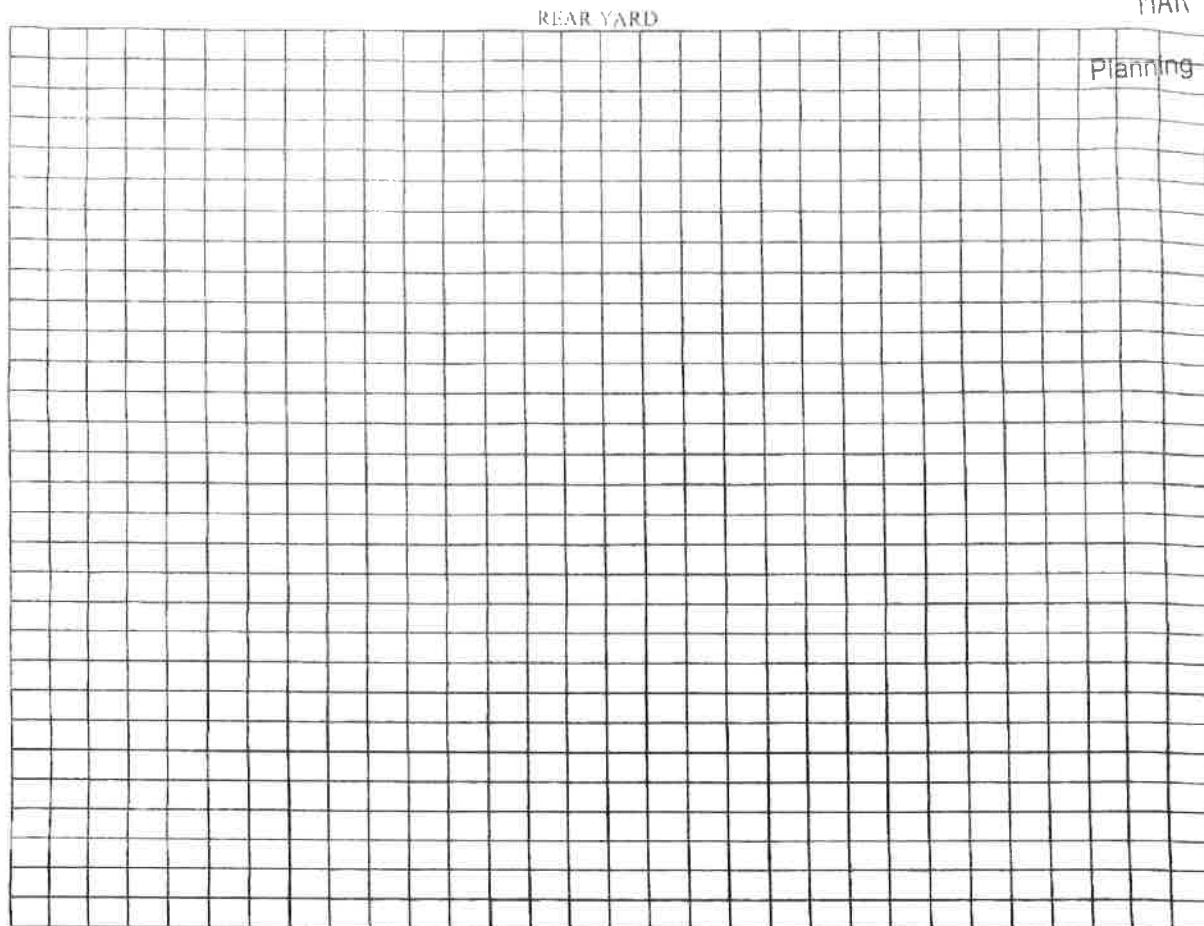
a. Involve new, or alterations to, electrical wiring? Yesb. Involve new, or alterations to, or additional use of, a sewage disposal system? Noc. Require installation, or changes in location, of a driveway? Nod. Involve a change in use or occupancy? No10. SIZE OF BUILDING _____ NUMBER OF STORIES _____ DEPTH _____ WIDTH _____ HEIGHT 300'

11. LOT DIMENSIONS _____ WIDTH _____ DEPTH _____

12. ESTIMATED COST \$ 75,000.00over

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12. SET BACKS - LEFT YARD _____ RIGHT YARD _____ REAR YARD _____ FRONT YARD _____

13. Please sketch and locate structure or object within grid showing front, back and side setbacks.

14. APPLICATION IS HEREBY MADE to the Building Department for the issuance of a Building Permit pursuant to the New York State Uniform Fire Prevention and Building Code (Title 9 NYCRR) for the construction of buildings, additions or alterations, or for removal or demolition as herein described. The applicant agrees to comply with all applicable laws, ordinances and regulations, including New York State Energy Code requirements, and the Town of Austerlitz Zoning Ordinance.

Signature of Applicant _____

Date 2/17/2021

Approved ☐ YES ☒ NO By E. Carter Date 2/23/21 Title CEO

Fee Paid \$ _____ Date Received _____ Check# _____

PERMIT DENIED ☒

REASON Section 195-21 Telecommunication tower shared use of existing tower

REFERRED TO PLANNING BOARD ☒

Town of Austerlitz Planning Board
Application for Site Plan Review/Special Use Permit



Application Date: 2/19/2021

Approval Request for: (check all that apply)

Site Plan ☐ Site Plan Amendment ☒ Special Use Permit ☒

Applicant: Richard Zajac / Crown Castle as agent for T-
Name: Mobile Email: richard.zajac@crowncastle.com
Mailing Address: 4545 East River Road, Suite 320
City: West Henrietta State: NY Zip: 14586 Telephone: 585-445-5896

Owner: If different than applicant, if more than one owner provide information for each on separate sheet
Name: Columbia County (property owner) Email: _____
Street Address: 401 State Street
City: Hudson State: NY Zip: 12534 Telephone: _____

Project Information: Tax Map Number: 10220-87.-2-51.112 -1 Parcel Acreage: _____

Location of Project/Street Address: 321 West Hill Road

Current Land Use of Site: telecom facility (cell tower)

Current Condition of Site: wooded forest, acreage

Character of abutting parcels: same - wooded forest

Reference Material
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Proposed Use(s) of site:

- ☐ Utilities ☐ Multi-family project
☐ In-Home Business ☐ Commercial Project ☒ Other (describe use below)
telecom

Detailed Description of Proposed Use, including primary and secondary uses (use separate sheet if necessary):

T-Mobile proposing to add eight (8) antennas and ancillary equipment to existing cell tower. T-Mobile also proposing a 16'x21' compound expansion to accommodate new equipment cabinets as well as a 40kw diesel backup generator.

Description of buildings to be used height, number of stories, square feet:

For residential projects include the number of dwelling units and size in square feet

Reference Material
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Is the property within 500 feet of ?

- ☐ A municipal boundary
☐ County or State Park or recreation either existing or proposed
☐ State or County road or right-of-way, either existing or proposed
☐ State or County owned building or institution
☐ Stream or drainage channel owned by County or for which channel lines have been established
☐ Active farm operation within an Agricultural District

If any of the above is true the site plan must also be reviewed by the County Planning Board.

Applicants Signature: _____ Date: 2/19/2021

Planning 2/23/21

FOR OFFICE USE ONLY

Date Received: 2/22/21

Project ID: PL-2021-02

Preliminary Review Date: 3/4/21

Final Review Date: _____

Final Decision: _____ Site Plan Unnecessary _____ Approved
_____ Approved with conditions _____ Denied

Short Environmental Assessment Form

Part 1 - Project Information

Instructions for Completing

Part 1 – Project Information. The applicant or project sponsor is responsible for the completion of Part 1. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification. Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information.

Complete all items in Part 1. You may also provide any additional information which you believe will be needed by or useful to the lead agency; attach additional pages as necessary to supplement any item.

Part 1 – Project and Sponsor Information			Reference Material	
T-Mobile antenna collocation				
Name of Action or Project:				
T-Mobile antenna collocation				
Project Location (describe, and attach a location map):				
321 West Hill Road				
Brief Description of Proposed Action:				
T-Mobile proposing to add eight (8) antennas and ancillary equipment to existing cell tower. T-Mobile also proposing a 16'x21' compound expansion to accommodate new equipment cabinets as well as a 40kw diesel backup generator				
Name of Applicant or Sponsor:			Telephone: 585-445-5896	
Richard Zajac / Crown Castle USA as agent for T-Mobile			E-Mail: richard.zajac@crowncastle.com	
Address:				
4545 East River Road, Suite 320				
City/PO:		State:		Zip Code:
West Henrietta		NY		14586
1. Does the proposed action only involve the legislative adoption of a plan, local law, ordinance, administrative rule, or regulation?			NO	YES
If Yes, attach a narrative description of the intent of the proposed action and the environmental resources that may be affected in the municipality and proceed to Part 2. If no, continue to question 2.			<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Does the proposed action require a permit, approval or funding from any other government Agency?			NO	YES
If Yes, list agency(s) name and permit or approval: Town of Austerlitz building permit			<input type="checkbox"/>	<input checked="" type="checkbox"/>
3. a. Total acreage of the site of the proposed action? _____ acres				
b. Total acreage to be physically disturbed? _____ acres				
c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? _____ acres				
4. Check all land uses that occur on, are adjoining or near the proposed action:				
5. <input type="checkbox"/> Urban <input type="checkbox"/> Rural (non-agriculture) <input type="checkbox"/> Industrial <input type="checkbox"/> Commercial <input type="checkbox"/> Residential (suburban)				
<input checked="" type="checkbox"/> Forest <input type="checkbox"/> Agriculture <input type="checkbox"/> Aquatic <input type="checkbox"/> Other(Specify):				
<input type="checkbox"/> Parkland				

Reference Material

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5. Is the proposed action,	NO	YES	NA
a. A permitted use under the zoning regulations?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. Consistent with the adopted comprehensive plan?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6. Is the proposed action consistent with the predominant character of the existing built or natural landscape?	NO	YES	
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
7. Is the site of the proposed action located in, or does it adjoin, a state listed Critical Environmental Area?	NO	YES	
If Yes, identify: _____	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
8. a. Will the proposed action result in a substantial increase in traffic above present levels?	NO	YES	
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b. Are public transportation services available at or near the site of the proposed action?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c. Are any pedestrian accommodations or bicycle routes available on or near the site of the proposed action?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
9. Does the proposed action meet or exceed the state energy code requirements?	NO	YES	
If the proposed action will exceed requirements, describe design features and technologies: _____ _____	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
10. Will the proposed action connect to an existing public/private water supply?	NO	YES	
If No, describe method for providing potable water: _____	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
11. Will the proposed action connect to existing wastewater utilities?	NO	YES	
If No, describe method for providing wastewater treatment: _____	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
12. a. Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or district which is listed on the National or State Register of Historic Places, or that has been determined by the Commissioner of the NYS Office of Parks, Recreation and Historic Preservation to be eligible for listing on the State Register of Historic Places?	NO	YES	
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b. Is the project site, or any portion of it, located in or adjacent to an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
13. a. Does any portion of the site of the proposed action, or lands adjoining the proposed action, contain wetlands or other waterbodies regulated by a federal, state or local agency?	NO	YES	
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b. Would the proposed action physically alter, or encroach into, any existing wetland or waterbody?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
If Yes, identify the wetland or waterbody and extent of alterations in square feet or acres: _____ _____ _____			

14. Identify the typical habitat types that occur on, or are likely to be found on the project site. Check all that apply:

- ☐ Shoreline
 ☒ Forest
 ☐ Agricultural/grasslands
 ☐ Early mid-successional
☐ Wetland
 ☐ Urban
 ☐ Suburban

15. Does the site of the proposed action contain any species of animal, or associated habitats, listed by the State or Federal government as threatened or endangered?

NO YES



16. Is the project site located in the 100-year flood plan?

NO YES



17. Will the proposed action create storm water discharge, either from point or non-point sources?

NO YES

If Yes,



a. Will storm water discharges flow to adjacent properties?



b. Will storm water discharges be directed to established conveyance systems (runoff and storm drains)?



If Yes, briefly describe:

18. Does the proposed action include construction or other activities that would result in the impoundment of water or other liquids (e.g., retention pond, waste lagoon, dam)?

NO YES

If Yes, explain the purpose and size of the impoundment:



19. Has the site of the proposed action or an adjoining property been the location of an active or closed solid waste management facility?

NO YES

If Yes, describe:



20. Has the site of the proposed action or an adjoining property been the subject of remediation (ongoing or completed) for hazardous waste?

NO YES

If Yes, describe:



I CERTIFY THAT THE INFORMATION PROVIDED ABOVE IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE

Applicant/sponsor/name: Richard Zajac / Crown Castle USA

Date: 2/19/2021

Signature: _____

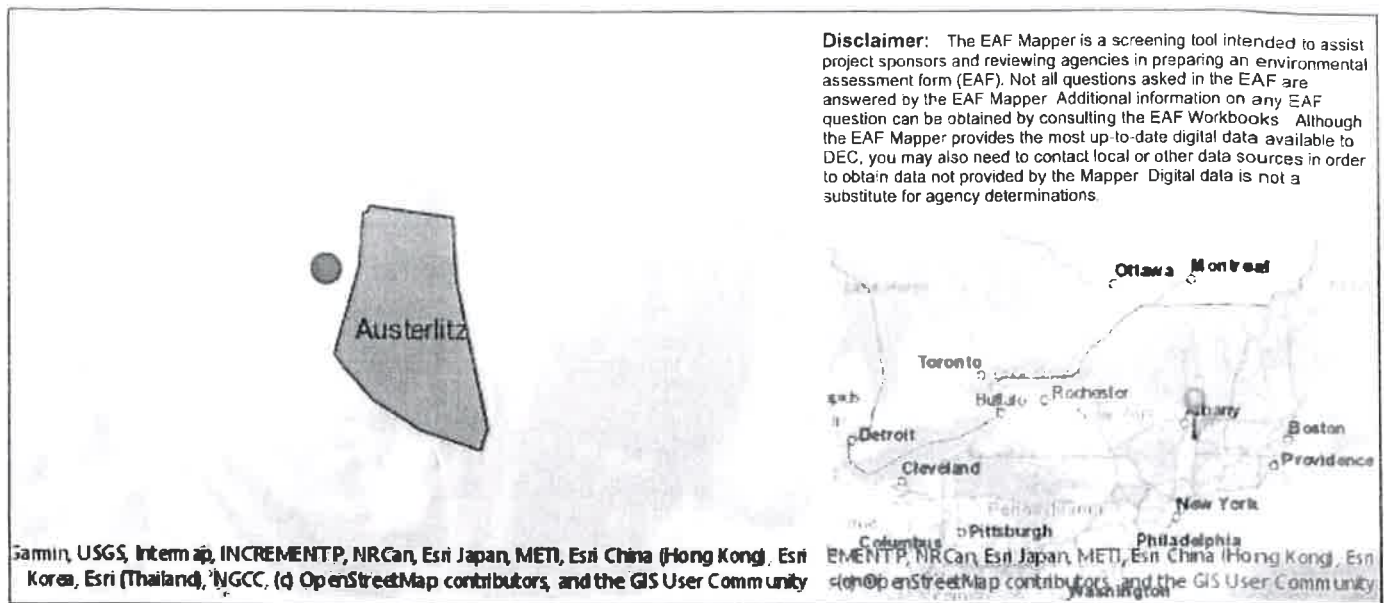
Title: Site Acquisition Specialist

Reference Material
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PRINT FORM

EAF Mapper Summary Report

Friday, February 19, 2021 10:16 AM



Part 1 / Question 7 [Critical Environmental Area]	No
Part 1 / Question 12a [National or State Register of Historic Places or State Eligible Sites]	No
Part 1 / Question 12b [Archeological Sites]	No
Part 1 / Question 13a [Wetlands or Other Regulated Waterbodies]	No
Part 1 / Question 15 [Threatened or Endangered Animal]	No
Part 1 / Question 16 [100 Year Flood Plain]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
Part 1 / Question 20 [Remediation Site]	No

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4545 E River Rd, Suite 320
West Henrietta, NY 14586

Phone (585) 445-5896
www.crowncastle.com

February 17, 2021

NY - TOWN OF AUSTERLITZ
Building Inspector / Code Enforcement
Erin Reis
816 Route 203, PO Box 238
SPENCERTOWN, NY 12165
Via Electronic Submittal

Reference Material

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

RE: Request for Minor Modification to Existing Wireless Facility – Section 6409
Site Address: 321 W. Hill Road Stop 132, AUSTERLITZ, NY 12017
Crown Site Number: 871864 / Crown Site Name: Austerlitz
Customer Site Number: UP40248E / Application Number: 528493

Dear Erin Reis:

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

Section 6409 mandates that state and local governments must approve any eligible facilities request for the modification of an existing wireless tower or base station that does not substantially change the physical dimensions of such tower or base station. 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 60 day deadline 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. Please allow this letter to confirm that, on February 17, 2021, Applicant submitted its electronic application through the appropriate forum. This letter supplements the electronic filing for purposes of starting the review period. Accordingly, the deadline for issuance of approval is April 18, 2021.

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

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



4545 E River Rd, Suite 320
West Henrietta, NY 14586

Phone (585) 445-5893
www.crowncastle.com

The proposed scope of work for this project includes:

Collocation of antennas, ancillary equipment and ground equipment as per plans on an existing wireless communication facility.

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

- (1) Completed permit application;
- (2) Certificates of Insurance;
- (3) Construction Drawings;
- (4) Mount Analysis;
- (5) Structural Analysis; and
- (6) Section 6409 Substantial Change Checklist.

Reference Material

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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 blue ink, appearing to read 'Richard Zajac', written over a faint circular stamp.

Richard Zajac
Site Acquisition Specialist
Crown Castle
Agent for Applicant
(585) 445-5896
Richard.Zajac@crowncastle.com



4545 E River Rd, Suite 320
West Henrietta, NY 14586

Phone (585) 445-5898
www.crowncastle.com

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

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

Criteria for Towers Outside the Public Rights of Way

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

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

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CERTIFICATE OF LIABILITY INSURANCE

 DATE (MM/DD/YYYY)
02/11/2021

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER
Willis Towers Watson Northeast, Inc.
c/o 26 Century Blvd
P.O. Box 305191
Nashville, TN 37205191 USA

CONTACT NAME: Willis Towers Watson Certificate Center
PHONE (A/C, No, Ext): 1-877-945-7378 FAX (A/C, No): 1-888-457-2378
E-MAIL ADDRESS: certificates@willis.com

INSURED
Crown Castle International
See Attached Named Insured List
1220 Augusta Dr. Suite 600
Houston, TX 77057

INSURER(S) AFFORDING COVERAGE	NAIC #
INSURER A: Federal Insurance Company	20291
INSURER B: National Union Fire Insurance Company of P	19445
INSURER C: Berkshire Hathaway Specialty Insurance Com	22276
INSURER D: New Hampshire Insurance Company	23841
INSURER E:	
INSURER F:	

COVERAGES

CERTIFICATE NUMBER: W20066250

REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADOL SUBR INSD WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY					EACH OCCURRENCE \$ 1,000,000
	<input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR					DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 1,000,000
			3605-3335	04/01/2020	04/01/2021	MED EXP (Any one person) \$ 10,000
	GEN'L AGGREGATE LIMIT APPLIES PER:					PERSONAL & ADV INJURY \$ 1,000,000
	<input checked="" type="checkbox"/> POLICY <input type="checkbox"/> PROJECT <input type="checkbox"/> LOC					GENERAL AGGREGATE \$ 2,000,000
	OTHER					PRODUCTS - COM/OP AGG \$ 2,000,000
B	AUTOMOBILE LIABILITY					COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000
	<input checked="" type="checkbox"/> ANY AUTO		CA 6631248	04/01/2020	04/01/2021	BODILY INJURY (Per person) \$
	<input type="checkbox"/> OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS NON-OWNED AUTOS ONLY					BODILY INJURY (Per accident) \$
	<input type="checkbox"/> HIRED AUTOS ONLY					PROPERTY DAMAGE (Per accident) \$
C	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR					EACH OCCURRENCE \$ 5,000,000
	<input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE		47-UMD-303445-05	04/01/2020	04/01/2021	AGGREGATE \$ 5,000,000
	DED <input checked="" type="checkbox"/> RETENTION \$ 25,000					\$
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY					<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTHER
D	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH)	Y/N No	WC 023096097	04/01/2020	04/01/2021	E.L. EACH ACCIDENT \$ 1,000,000
	If yes, describe under DESCRIPTION OF OPERATIONS below	N/A				E.L. DISEASE - EA EMPLOYEE \$ 1,000,000
						E.L. DISEASE - POLICY LIMIT \$ 1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

This Voids and Replaces Previously Issued Certificate Dated 03/30/2020 WITH ID: W15992184.

RE: Building Permit Application = BU#871864 - West Hill Rd, Austerlitz, NY 12017.

CERTIFICATE HOLDER

Town of Austerlitz
816 Route 203
PO Box 238
Spencertown, NY 12165

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

Joseph Spina

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Crown Castle International Corp. Consolidated Subsidiaries as Named Insureds

Entity Name	7/23/19 Edition
24/7 Chesapeake Holdings, LLC	Crown Castle GT Corp.
24/7 Mid-Atlantic Network of Virginia, LLC	Crown Castle GT Holding Sub LLC
24/7 Mid-Atlantic Network, LLC	Crown Castle International Corp.
Access Fiber Group Holdings LLC	Crown Castle International Corp. de Puerto Rico
Access Fiber Group, Inc.	Crown Castle International LLC
AirComm of Avon, L.L.C.	Crown Castle Investment Corp.
Atlantic Coast Communications LLC	Crown Castle Investment II Corp.
CA - CLEC LLC	Crown Castle MM Holding Corp.
CC Castle International LLC	Crown Castle MM Holding LLC
CC Edge LLC	Crown Castle MU LLC
CC Edge Solutions LLC	Crown Castle MUPA LLC
CC Finance LLC	Crown Castle NG Atlantic LLC
CC FN Holdings LLC	Crown Castle NG Central LLC
CC Holdings GS V LLC	Crown Castle NG East LLC
CC Site Acquisitions II LLC	Crown Castle NG Networks LLC
CC Sunesys Fiber Networks LLC	Crown Castle NG West LLC
CC TM PA LLC	Crown Castle Operating Company
CC Towers Guarantor LLC	Crown Castle Operating LLC
CC Towers Holding LLC	Crown Castle Orlando Corp.
CC TS LLC	Crown Castle PR LLC
CCATT Holdings LLC	Crown Castle PR Solutions LLC
CCATT LLC	Crown Castle PT Inc.
CCATT PR LLC	Crown Castle Puerto Rico Corp.
CCGS Holdings Corp.	Crown Castle Services LLC
CCPE Acquisitions LLC	Crown Castle Solutions LLC
CCPR VI Tower Newco LLC	Crown Castle South LLC
CCS & E LLC	Crown Castle TDC LLC
CCT2 Holdings LLC	Crown Castle TLA LLC
CCTM Holdings LLC	Crown Castle Towers 05 LLC
CCTM1 LLC	Crown Castle Towers 06-2 LLC
CCTM2 LLC	Crown Castle Towers 09 LLC
CCTMO LLC	Crown Castle Towers LLC
Chesapeake Fiber, LLC	Crown Castle USA Inc.
Coastal Antennas LLC	Crown Communication LLC
ComSite Venture, Inc.	Crown Communication New York, Inc.
Coverage Plus Antenna Systems LLC	Crown Mobile Systems, Inc.
Cross Connect Solutions, Inc. (PA)	DAS Development Corporation
Crown Atlantic Company LLC	Fiber Technologies Networks, L.L.C. (NY)
Crown Castle AS LLC	Fibernet Direct Florida LLC
Crown Castle Atlantic LLC	Fibernet Direct Holdings LLC
Crown Castle Augusta LLC	Fibernet Direct TEL LLC
Crown Castle BP ATT LLC	Fibernet Direct Texas LLC
Crown Castle CA Corp.	Fibertech Facilities Corp. (NY)
Crown Castle Fiber Holdings Corp. (formerly LTS Group Holdings LLC)	Fibertech Holdings Corp.
Crown Castle Fiber Enterprise LLC (formerly Sunesys Enterprise LLC)	Fibertech Networks, LLC
Crown Castle Fiber LLC f/k/a Lightower Fiber Networks II, LLC	Freedom Telecommunications, LLC
Crown Castle GS III Corp.	Global Signal Acquisitions II LLC
Crown Castle GT Company LLC	Global Signal Acquisitions III LLC

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Crown Castle International Corp. Consolidated Subsidiaries as Named Insureds

Entity Name	7/23/19 Edition
Global Signal Acquisitions IV LLC	P3 OASA-1, LLC
Global Signal Acquisitions LLC	P3 PBA-1, LLC
Global Signal GP LLC	PA - CLEC LLC
Global Signal Holdings III LLC	Pinnacle San Antonio L.L.C.
Global Signal Holdings IV LLC	Pinnacle St. Louis LLC
Global Signal Operating Partnership, L.P.	Pinnacle Towers Acquisition Holdings LLC
Global Signal Services LLC	Pinnacle Towers Acquisition LLC
GoldenState Towers, LLC	Pinnacle Towers Asset Holding LLC
GS Savings Inc.	Pinnacle Towers Canada, Inc.
GSPN Intangibles LLC	Pinnacle Towers III LLC
High Point Management Co. LLC	Pinnacle Towers Limited
ICB Towers, LLC	Pinnacle Towers LLC
InfraSource FI, LLC	Pinnacle Towers V Inc.
InSITE Fiber of Virginia LLC	PR Site Development Corporation
InSITE Solutions LLC	PR TDC Corporation
Interstate Tower Communications LLC	Princeton Ancillary Services II LLC
Intracoastal City Towers LLC	Princeton Ancillary Services III LLC
IX2 Center, LLC	Radio Station WGLD LLC
IX2 Wiltshire, LLC	RGP Tower Group, LLC
JBCM Towers LLC	Shaffer & Associates, Inc.
Light Tower Clearinghouse LLC	Sidera Networks UK Limited (UK)
Light Tower Fiber New York, Inc. (NY)	Sidera Networks, Inc.
Light Tower Holdings LLC	Sierra Towers, Inc.
Light Tower Management, Inc.	Sunesys Enterprise LLC n/k/a Crown Castle Fiber Enterprise LLC
Light Tower Metro Fiber LLC	Sunesys of Massachusetts, LLC
Lighttower Fiber Infrastructure Corp.	Sunesys of Virginia, Inc.
Lighttower Fiber Networks I, LLC	Sunesys, LLC
Lighttower Fiber Networks II, LLC n/k/a Crown Castle Fiber LLC	Thunder Towers LLC
LL Q1-18, LLC	Tower Development Corporation
LTS Buyer LLC	Tower Systems LLC
LTS Group Holdings LLC n/k/a Crown Castle Fiber Holdings Corp	Tower Technology Company of Jacksonville LLC
LTS Intermediate Holdings A LLC	Tower Ventures III, LLC
LTS Intermediate Holdings B LLC	TowerOne 2012, LLC
LTS Intermediate Holdings C LLC	TowerOne Allentown 001, LLC
Md7 Capitol One, LLC	TowerOne Bethlehem 001, LLC
Mobile Media California LLC	TowerOne Doylestown, LLC
Mobile Media National LLC	TowerOne East Rockhill 001, LLC
Modeo LLC	TowerOne Marple, LLC
MW Cell REIT 1 LLC	TowerOne Middletown 001, LLC
MW Cell TRS 1 LLC	TowerOne Middletown 002, LLC
NEON Transcom, Inc.	TowerOne Middletown 003, LLC
NewPath Networks Holding LLC	TowerOne North Coventry, LLC
NewPath Networks LLC	TowerOne Partners, LLC
NY - CLEC LLC	TowerOne Richland, LLC
OP 2 LLC	TowerOne Upper Pottsgrove 002, LLC
OP LLC	TowerOne Upper Pottsgrove, LLC
P3 CHB-1, LLC	TowerOne Warminster 001, LLC
P3 Holdings 2014 LLC	TowerOne Warrington 002, LLC

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Crown Castle International Corp. Consolidated Subsidiaries as Named Insureds**Entity Name****7/23/19 Edition**

Towers Finco II LLC
Towers Finco III LLC
Towers Finco LLC
TriStar Investors LLC
TVHT, LLC
WA - CLEC LLC
WCP Wireless Lease Subsidiary, LLC
WCP Wireless Site Funding LLC
WCP Wireless Site Holdco LLC
WCP Wireless Site Non-RE Funding LLC
WCP Wireless Site Non-RE Holdco LLC
WCP Wireless Site RE Funding LLC
WCP Wireless Site RE Holdco LLC
Wilcon Holdings LLC
Wilcon Operations LLC
Wilshire Connection, LLC
Wilshire Services, LLC
Wireless Funding, LLC
Wireless Realty Holdings II, LLC
Wireless Revenue Properties, LLC
Yankee Metro Parent, Inc.

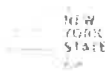
Reference Material**MAR 04 2021**

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Workers' Compensation Board

CERTIFICATE OF INSURANCE COVERAGE DISABILITY AND PAID FAMILY LEAVE BENEFITS LAW

PART 1. To be completed by Disability and Paid Family Leave Benefits Carrier or Licensed Insurance Agent of that Carrier

<p>1a. Legal Name & Address of Insured (use street address only)</p> <p>Crown Castle USA Inc. 1220 Augusta Drive, Suite 600 Houston, TX 77057</p> <p><small>Work Location of Insured (Only required if coverage is specifically limited to certain locations in New York State, i.e., Wrap-Up Policy)</small></p>	<p>1b. Business Telephone Number of Insured</p> <p>1c. Federal Employer Identification Number of Insured or Social Security Number</p> <p>25-1695742</p>
<p>2. Name and Address of Entity Requesting Proof of Coverage (Entity Being Listed as the Certificate Holder)</p> <p>Town of Austerlitz 816 Route 203 P.O. Box 238 Spencertown, NY 12165 RE: Building Permit</p>	<p>3a. Name of Insurance Carrier</p> <p>The Prudential Insurance Company of America</p> <p>3b. Policy Number of Entity Listed in Box "1a"</p> <p>CG-52958-NY</p> <p>3c. Policy effective period</p> <p>01/01/2021 to 12/31/2021</p>

4. Policy provides the following benefits:

- ☒ A. Both disability and paid family leave benefits.
☐ B. Disability benefits only.
☐ C. Paid family leave benefits only.

5. Policy covers:

- ☒ A. All of the employer's employees eligible under the NYS Disability and Paid Family Leave Benefits Law.
☐ B. Only the following class or classes of employer's employees:

Under penalty of perjury, I certify that I am an authorized representative or licensed agent of the insurance carrier referenced above and that the named insured has NYS Disability and/or Paid Family Leave Benefits insurance coverage as described above.

Date Signed February 12, 2021

By

[Signature]
Signature of Insurance carrier's authorized representative or NYS Licensed Insurance Agent of that insurance carrier)

Telephone Number (215) 784-2883

Name and Title Vice President, Contracts

IMPORTANT: If Boxes 4A and 5A are checked, and this form is signed by the insurance carrier's authorized representative or NYS Licensed Insurance Agent of that carrier, this certificate is COMPLETE. Mail it directly to the certificate holder.

If Box 4B, 4C or 5B is checked, this certificate is NOT COMPLETE for purposes of Section 220, Subd. 8 of the NYS Disability and Paid Family Leave Benefits Law. It must be mailed for completion to the Workers' Compensation Board, Plans Acceptance Unit, PO Box 5200, Binghamton, NY 13902-5200.

PART 2. To be completed by the NYS Workers' Compensation Board (Only if Box 4C or 5B of Part 1 has been checked)

State of New York Workers' Compensation Board

According to information maintained by the NYS Workers' Compensation Board, the above-named employer has complied with the NYS Disability and Paid Family Leave Benefits Law with respect to all of his/her employees.

Date Signed _____ By _____

(Signature of Authorized NYS Workers' Compensation Board Employee)

Telephone Number _____

Name and Title _____

Please Note: Only insurance carriers licensed to write NYS disability and paid family leave benefits insurance policies and NYS licensed insurance agents of those insurance carriers are authorized to issue Form DB-120.1. Insurance brokers are NOT authorized to issue this form.



Additional Instructions for Form DB-120.1

By signing this form, the insurance carrier identified in Box 3 on this form is certifying that it is insuring the business referenced in box "1a" for disability and/or paid family leave benefits under the New York State Disability and Paid Family Leave Benefits Law. The Insurance Carrier or its licensed agent will send this Certificate of Insurance to the entity listed as the certificate holder in Box 2.

The insurance carrier must notify the above certificate holder and the Workers' Compensation Board within 10 days IF a policy is cancelled due to nonpayment of premiums or within 30 days IF there are reasons other than nonpayment of premiums that cancel the policy or eliminate the insured from coverage indicated on this Certificate. (These notices may be sent by regular mail.) Otherwise, this Certificate is valid for one year after this form is approved by the insurance carrier or its licensed agent, or until the policy expiration date listed in Box 3c, whichever is earlier

This certificate is issued as a matter of information only and confers no rights upon the certificate holder. This certificate does not amend, extend or alter the coverage afforded by the policy listed, nor does it confer any rights or responsibilities beyond those contained in the referenced policy.

This certificate may be used as evidence of a Disability and/or Paid Family Leave Benefits contract of insurance only while the underlying policy is in effect.

Please Note: Upon the cancellation of the disability and/or paid family leave benefits policy indicated on this form, if the business continues to be named on a permit, license or contract issued by a certificate holder, the business must provide that certificate holder with a new Certificate of NYS Disability and/or Paid Family Leave Benefits Coverage or other authorized proof that the business is complying with the mandatory coverage requirements of the New York State Disability and Paid Family Leave Benefits Law.

DISABILITY AND PAID FAMILY LEAVE BENEFITS LAW

§220. Subd. 8

(a) The head of a state or municipal department, board, commission or office authorized or required by law to issue any permit for or in connection with any work involving the employment of employees in employment as defined in this article, and notwithstanding any general or special statute requiring or authorizing the issue of such permits, shall not issue such permit unless proof duly subscribed by an insurance carrier is produced in a form satisfactory to the chair, that the payment of disability benefits and after January first, two thousand and twenty-one, the payment of family leave benefits for all employees has been secured as provided by this article. Nothing herein, however, shall be construed as creating any liability on the part of such state or municipal department, board, commission or office to pay any disability benefits to any such employee if so employed.

(b) The head of a state or municipal department, board, commission or office authorized or required by law to enter into any contract for or in connection with any work involving the employment of employees in employment as defined in this article and notwithstanding any general or special statute requiring or authorizing any such contract, shall not enter into any such contract unless proof duly subscribed by an insurance carrier is produced in a form satisfactory to the chair, that the payment of disability benefits and after January first, two thousand eighteen, the payment of family leave benefits for all employees has been secured as provided by this article.

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Workers'
Compensation
Board

CERTIFICATE OF
NYS WORKERS' COMPENSATION INSURANCE COVERAGE

1a. Legal Name & Address of Insured (use street address only) CROWN CASTLE USA INC 2000 CORPORATE DRIVE CANONSBURG, PA 15317 <i>Work Location of Insured (Only required if coverage is specifically limited to certain locations in New York State, i.e., a Wrap-Up Policy)</i>	1b. Business Telephone Number of Insured 724-416-2253 1c. NYS Unemployment Insurance Employer Registration Number of Insured LNY614813 1d. Federal Employer Identification Number of Insured or Social Security Number 25-1695742
2. Name and Address of Entity Requesting Proof of Coverage (Entity Being Listed as the Certificate Holder) Town of Austerlitz 816 Route 203 PO Box 238 Spencertown, NY 12165 RE: Building Permit	3a. Name of Insurance Carrier New Hampshire Insurance Company 3b. Policy Number of Entity Listed in Box "1a" WC 023096097 3c. Policy effective period 04/01/2020 to 04/01/2021 3d. The Proprietor, Partners or Executive Officers are <input checked="" type="checkbox"/> included. (Only check box if all partners/officers included) <input type="checkbox"/> all excluded or certain partners/officers excluded.

This certifies that the insurance carrier indicated above in box "3" insures the business referenced above in box "1a" for workers' compensation under the New York State Workers' Compensation Law. (To use this form, New York (NY) must be listed under Item 3A on the INFORMATION PAGE of the workers' compensation insurance policy). The Insurance Carrier or its licensed agent will send this Certificate of Insurance to the entity listed above as the certificate holder in box "2".

The insurance carrier must notify the above certificate holder and the Workers' Compensation Board within 10 days IF a policy is canceled due to nonpayment of premiums or within 30 days IF there are reasons other than nonpayment of premiums that cancel the policy or eliminate the insured from the coverage indicated on this Certificate. (These notices may be sent by regular mail.) Otherwise, this Certificate is valid for one year after this form is approved by the insurance carrier or its licensed agent, or until the policy expiration date listed in box "3c", whichever is earlier.

This certificate is issued as a matter of information only and confers no rights upon the certificate holder. This certificate does not amend, extend or alter the coverage afforded by the policy listed, nor does it confer any rights or responsibilities beyond those contained in the referenced policy.

This certificate may be used as evidence of a Workers' Compensation contract of insurance only while the underlying policy is in effect.

Please Note: Upon cancellation of the workers' compensation policy indicated on this form, if the business continues to be named on a permit, license or contract issued by a certificate holder, the business must provide that certificate holder with a new Certificate of Workers' Compensation Coverage or other authorized proof that the business is complying with the mandatory coverage requirements of the New York State Workers' Compensation Law.

Under penalty of perjury, I certify that I am an authorized representative or licensed agent of the insurance carrier referenced above and that the named insured has the coverage as depicted on this form.

Approved by: Michael Price
(Print name of authorized representative or licensed agent of insurance carrier)

Approved by: [Signature] 02/12/2021
(Signature) (Date)

Title: CEO North America

Telephone Number of authorized representative or licensed agent of insurance carrier: 212-770-7000

Please Note: Only insurance carriers and their licensed agents are authorized to issue Form C-105.2. Insurance brokers are NOT authorized to issue it.

Workers' Compensation Law

Section 57. Restriction on issue of permits and the entering into contracts unless compensation is secured.

1. The head of a state or municipal department, board, commission or office authorized or required by law to issue any permit for or in connection with any work involving the employment of employees in a hazardous employment defined by this chapter, and notwithstanding any general or special statute requiring or authorizing the issue of such permits, shall not issue such permit unless proof duly subscribed by an insurance carrier is produced in a form satisfactory to the chair, that compensation for all employees has been secured as provided by this chapter. Nothing herein, however, shall be construed as creating any liability on the part of such state or municipal department, board, commission or office to pay any compensation to any such employee if so employed.
2. The head of a state or municipal department, board, commission or office authorized or required by law to enter into any contract for or in connection with any work involving the employment of employees in a hazardous employment defined by this chapter, notwithstanding any general or special statute requiring or authorizing any such contract, shall not enter into any such contract unless proof duly subscribed by an insurance carrier is produced in a form satisfactory to the chair, that compensation for all employees has been secured as provided by this chapter.

Reference Material

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Date: December 2, 2020

Darcy Tarr
Crown Castle
6325 Ardrey Kell Road, Suite 600
Charlotte, NC 28277
(704) 405-6589



520 South Main Street, Suite 2531
Akron, Ohio 44311
(216) 927-8663
CrownMA@gpdgroup.com

Reference Material

MAR 04 2021

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Subject: Mount Analysis Report

Carrier Designation: T-Mobile Loading Modification
Carrier Site Number: UP40248E
Carrier Site Name: Austerlitz

Crown Castle Designation: Crown Castle BU Number: 871864
Crown Castle Site Name: Austerlitz
Crown Castle JDE Job Number: 620556
Crown Castle Order Number: 528493 Rev. 0

Engineering Firm Designation: GPD Report Designation: 2021777.871864.06

Site Data: 321 W. Hill Road, Austerlitz, Columbia County, NY 12017
Latitude 42° 18' 21.77" Longitude -73° 29' 27.12"

Structure Information: Tower Height & Type: 300.0 ft Guyed Tower
Mount Elevation: 288.0 ft
Mount Type: 12.5 ft Sector Mount

Dear Darcy Tarr,

GPD is pleased to submit this "Mount Analysis Report" to determine the structural integrity of T-Mobile's antenna mounting system with the proposed appurtenance and equipment addition on the above mentioned supporting tower structure. Analysis of the existing supporting tower structure is to be completed by others and therefore is not part of this analysis. Analysis of the antenna mounting system as a tie-off point for fall protection or rigging is not part of this document.

The purpose of the analysis is to determine acceptability of the mount stress level. Based on our analysis we have determined the mount stress level to be:

Sector Mount

Sufficient

This analysis utilizes an ultimate 3-second gust wind speed of 112 mph as required by the 2020 New York State Uniform Code. Applicable Standard references and design criteria are listed in Section 2 - Analysis Criteria..

Mount analysis prepared by: Brandon Brookbank

Respectfully Submitted by:

Christopher J. Scheeks, P.E.
New York #: 093566-1



WARNING - IT IS A VIOLATION OF LAW FOR ANY
PERSON TO REPRODUCE OR TRANSMIT THIS
INFORMATION WITHOUT THE WRITTEN PERMISSION OF A LICENSED
PROFESSIONAL ENGINEER.

12/2/2020

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Reference Material

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1) INTRODUCTION

This is a proposed 12.5' Sector Mount designed by Site Pro 1 (Drawing #: VFA12-HD, dated 12/13/2017). The sectors will be connected together using pipes to form a six-sided interconnected mount.

2) ANALYSIS CRITERIA

Building Code:	2018 IBC
TIA-222 Revision:	TIA-222-H
Risk Category:	II
Ultimate Wind Speed:	112 mph
Exposure Category:	B
Topographic Factor at Base:	1
Topographic Factor at Mount:	1
Ice Thickness:	1 in
Wind Speed with Ice:	40 mph
Live Loading Wind Speed:	30 mph
Man Live Load at Mid/End-Points:	250 lb
Man Live Load at Mount Pipes:	500 lb

Reference Material
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Table 1 - Proposed Equipment Configuration

Mount Centerline (ft)	Antenna Centerline (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Mount Details
288.0	288.0	4	Andrew	HBXX-6517DS-A2M	(3) 12.5 ft. Sector Mounts
		4	RFS/Celwave	APXVAALL24 43-U-NA20 TMO	
		4	Ericsson	RADIO 4415 B66A	
		4	Ericsson	RADIO 4424 B25 TMO	
		4	Ericsson	RADIO 4449 B71/B85A	

3) ANALYSIS PROCEDURE

Table 2 - Documents Provided

Document	Remarks	Reference	Source
CCI Application	Crown Order Number 528493 Rev. 0	-	CCI
RF Data Sheet	T-Mobile RFDS #: UP40248E, dated 11/30/2020	-	CCI
Mount Design	Site Pro 1 Drawing #: VFA12-HD, dated 12/13/2017	-	CCI

3.1) Analysis Method

RISA-3D Edition (Version 17.0.2), a commercially available analysis software package, was used to create a three-dimensional model of the antenna mounting system and calculate member stresses for various loading cases.

A tool internally developed by GPD, using Microsoft Excel, was used to calculate wind loading on all appurtenances, dishes, and mount members for various load cases. Selected output from the analysis is included in Appendix B.

This analysis was performed in accordance with Crown Castle's ENG-SOW-10208 *Tower Mount Analysis* (Revision C).

3.2) Assumptions

- 1) The antenna mounting system was properly fabricated, installed and maintained in good condition in accordance with its original design and manufacturer's specifications.
- 2) The configuration of antennas, mounts, and other appurtenances are as specified in Table 1 and the referenced drawings.
- 3) All member connections are assumed to have been designed to meet or exceed the load carrying capacity of the connected member unless otherwise specified in this report.
- 4) This analysis assumes all information reference in Table 2 is current and correct.
- 5) Steel grades have been assumed as follows, unless noted otherwise:

Solid Round, Plate	ASTM A36 (GR 36)
Pipe	ASTM A53 (GR 35)
Connection Bolts	ASTM A325

Reference Material

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

4) ANALYSIS RESULTS

Table 3a - Mount Component Stresses vs. Capacity (Sector Mount, Alpha Sector)

Notes	Component	Critical Member	Centerline (ft)	% Capacity	Pass / Fail
1,3	Front Horizontals	A5	288.0	21.0	Pass
	Standoff Horizontals	A10		19.8	Pass
	Standoff Diagonals	A15		13.8	Pass
	Standoff Verticals	A14		27.0	Pass
	Connection Plate	A24		32.2	Pass
	Mount Pipe	A34		25.8	Pass
	Tie Back	A33		6.2	Pass
	Connection Pipes	A132		15.5	Pass
2,3	Mount to Tower Connection	-	288.0	30.4	Pass
	Tieback to Tower Connection	-		9.0	Pass

Table 3b - Mount Component Stresses vs. Capacity (Sector Mount, Beta Sector)

Notes	Component	Critical Member	Centerline (ft)	% Capacity	Pass / Fail
1,3	Front Horizontals	B46	288.0	16.9	Pass
	Standoff Horizontals	B49		19.0	Pass
	Standoff Diagonals	B55		13.6	Pass
	Standoff Verticals	B54		26.1	Pass
	Connection Plate	B64		31.2	Pass
	Mount Pipe	BP2		25.7	Pass
	Tie Back	B73		5.0	Pass
	Connection Pipes	B144		10.9	Pass
2,3	Mount to Tower Connection	-	288.0	24.7	Pass
	Tieback to Tower Connection	-		7.0	Pass

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12.5 ft Sector Mount Analysis
Order 528493 Rev. 0

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CCI BU No 871864
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Table 3c - Mount Component Stresses vs. Capacity (Sector Mount, Gamma Sector)

Notes	Component	Critical Member	Centerline (ft)	% Capacity	Pass / Fail
1,3	Front Horizontals	C85	288.0	20.6	Pass
	Standoff Horizontals	C88		19.8	Pass
	Standoff Diagonals	C97		14.0	Pass
	Standoff Verticals	C91		27.1	Pass
	Connection Plate	C100		33.3	Pass
	Mount Pipe	CP2		25.7	Pass
	Tie Back	C117		5.2	Pass
	Connection Pipes	M126		9.6	Pass
2,3	Mount to Tower Connection			29.2	Pass
	Tieback to Tower Connection			7.5	Pass

Structure Rating (max from all components) =	33.3%³
---	--------------------------

Notes:

- 1) See additional documentation in "Appendix C - Software Analysis Output" for calculations supporting the % capacity consumed.
- 2) See additional documentation in "Appendix D - Additional Calculations" for calculations supporting the % capacity consumed.
- 3) Ratings per TIA-222-H section 15.5.

Table 4 - Tieback Connection Data Table

Tower Connection Node No.	Existing / Proposed	Resultant End Reaction (lb)	Connected Member Type	Connected Member Size	Member Compressive Capacity (lb) ³	Notes
A53	Proposed	1305.5	Leg	ROHN 2.5 EH	3808.5	1
A55	Proposed	1311.9	Leg	ROHN 2.5 EH	3808.5	1
B114	Proposed	1021.8	Leg	ROHN 2.5 EH	3808.5	1
B116	Proposed	800.8	Leg	ROHN 2.5 EH	3808.5	1
C174	Proposed	1078.4	Leg	ROHN 2.5 EH	3808.5	1
C176	Proposed	1091.0	Leg	ROHN 2.5 EH	3808.5	1

Notes:

- 1) Tieback connection point is within 25% of either end of the connected tower member
- 2) Tieback connection point is NOT within 25% of either end of the connected tower member
- 3) Reduced member compressive capacity according to CED-STD-10294 Standard for Installation of Mounts and Appurtenances

4.1) Recommendations

The mount has sufficient capacity to carry the proposed loading configuration. No modifications are required at this time.



Date: **December 16, 2020**

Cheryl Schultz
Crown Castle
6325 Ardrey Kell Rd, Suite 600
Charlotte, NC 28277

Crown Castle
2000 Corporate Drive
Canonsburg, PA 15317
(724) 416-2000

Subject: **Structural Analysis Report**

Carrier Designation: **T-Mobile Co-Locate**
Carrier Site Number: UP40248E
Carrier Site Name: Austerlitz

Crown Castle Designation: **Crown Castle BU Number:** 871864
Crown Castle Site Name: Austerlitz
Crown Castle JDE Job Number: 620556
Crown Castle Work Order Number: 1905763
Crown Castle Order Number: 528493 Rev. 0

Engineering Firm Designation: **Crown Castle Project Number:** 1905763

Site Data: **321 W. Hill Road Stop 132, AUSTERLITZ, Columbia County, NY**
Latitude 42° 18' 21.77", Longitude -73° 29' 27.12"
300 Foot - Guyed Tower

Dear Cheryl Schultz,

Crown Castle 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 2020 New York State Uniform Code based upon an ultimate 3-second gust wind speed of 112 mph. Applicable Standard references and design criteria are listed in Section 2 - "Analysis Criteria".

Structural analysis prepared by: Kenneth Sukitch, E.I.T.

Respectfully submitted by:

Reference Material

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Rohit Soni, P.E.
Senior Project Engineer



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tnxTower Output

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Additional Calculations

Reference Material

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1) INTRODUCTION

This tower is a 300 ft Guyed tower designed by Rohn and mapped by Vertical Solutions.

2) ANALYSIS CRITERIA

TIA-222 Revision: TIA-222-H
 Risk Category: II
 Wind Speed: 112 mph
 Exposure Category: B
 Topographic Factor: 1
 Ice Thickness: 1 in
 Wind Speed with Ice: 40 mph
 Service Wind Speed: 60 mph

Reference Material

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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)
290.0	290.0	4	sitepro 1	VFA12-HD	1 4	1/2 1-5/8
	288.0	4	andrew	HBXX-6517DS-A2M w/ Mount Pipe		
		4	ericsson	RADIO 4415 B66A		
		4	ericsson	RADIO 4424 B25_TMO		
		4	ericsson	RADIO 4449 B71/B85A		
		4	rfs celwave	APXVAALL24_43-U-NA20_TMO w/ Mount Pipe		

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)
300.0	305.0	1	decibel	DB806T6-Z	1	1/2
	304.0	1	sinclair	SRL-210A	1	7/8
		3		7' Arch Frame		
298.0	298.0	6	commscope	NNH4-65C-R6 w/ Mount Pipe	2 9	3/8 3/4
		3	ericsson	4449		
		3	ericsson	4478		
		3	ericsson	8843		
		2	raycap	DC9-48-60-24-8C-EV		
278.0	278.0	1	rfs celwave	PAD6-59BC	1	E60
		1	tower mounts	Pipe Mount [PM 601-1]		
270.0	270.0	1	decibel	DB212-1	1	7/8
245.0	245.0	1	decibel	DB212-1	1	7/8
225.0	235.0	1	rfs celwave	PD220-1	1	7/8
	225.0	1	tower mounts	Side Arm Mount [SO 201-1]		
		3	alcatel lucent	B13 RRR 4X30		
216.0	217.0	6	andrew	SBNHH-1D65B w/ Mount Pipe	1	1-5/8
		1	raycap	RRFDC-3315-PF-48		

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
	216.0	3	-	12' Curved Sector Mount		
196.0	204.0	1	andrew	ASP682	1	7/8
	196.0	1	tower mounts	Side Arm Mount [SO 306-1]		
178.0	183.0	2	scala	OGB9-900		
	178.0	2	tower mounts	Side Arm Mount [SO 306-1]		
168.0	170.0	1	decibel	DB201-A	1	1/2
	168.0	1	-	10' Standoff		
142.0	145.0	1	til-tek	TA-2350-DAB-T6	1	1/2
134.0	144.0	1	rfi antennas	COL54-166	1	7/8
	134.0	1	tower mounts	Side Arm Mount [SO 308-1]		
130.0	130.0	1	rfs celwave	PAD6-59BC	1	E60
		1	tower mounts	Pipe Mount [PM 601-1]		
120.0	120.0	1	tower mounts	Pipe Mount [PM 601-1]	-	-
116.0	116.0	1	kathrein	PR-950	1	7/8
109.0	119.0	1	rfi antennas	COL54-166	1	7/8
	109.0	1	tower mounts	Side Arm Mount [SO 306-1]		
103.0	113.0	1	rfi antennas	BA4040-41-DIN	1	7/8
	103.0	1	tower mounts	Side Arm Mount [SO 307-1]		
82.0	92.0	1	rfs celwave	220-1N	1	1/2
	82.0	1	tower mounts	Side Arm Mount [SO 201-1]		
78.0	88.0	1	rfs celwave	220-1N	1	1/2
	78.0	1	-	10' Standoff		

3) ANALYSIS PROCEDURE

Table 3 - Documents Provided

Document	Remarks	Reference	Source
4-GEOTECHNICAL REPORTS	FDH	1360042	CCISITES
4-TOWER FOUNDATION DRAWINGS/DESIGN/SPECS	FDH (Mapping)	1360112	CCISITES
4-TOWER MANUFACTURER DRAWINGS	Vertical Solutions (Mapping)	2146313	CCISITES

3.1) Analysis Method

tnxTower (version 8.0.7.5), 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) 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.

tnxTower Report - version 8.0.7.5

Reference Material

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Reference Material

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300 Ft Guyed Tower Structural Analysis
 Project Number 1905763, Order 528493, Revision 0

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

4) ANALYSIS RESULTS

Table 4 - Section Capacity (Summary)

Section No.	Elevation (ft)	Component Type	Size	Critical Element	P (K)	SF*P_allow (K)	% Capacity	Pass / Fail
T1	300 - 280	Leg	ROHN 2.5 EH	1	-29.083	79.978	36.4	Pass
T2	280 - 260	Leg	ROHN 2.5 STD	34	-26.808	61.326	43.7	Pass
T3	260 - 240	Leg	ROHN 2.5 STD	67	-23.247	61.326	37.9	Pass
T4	240 - 220	Leg	ROHN 2 EH	101	-35.854	46.048	77.9	Pass
T5	220 - 200	Leg	ROHN 2.5 STD	134	-32.448	61.326	52.9	Pass
T6	200 - 180	Leg	ROHN 2.5 STD	166	-33.169	61.326	54.1	Pass
T7	180 - 160	Leg	ROHN 2.5 EH	200	-35.374	79.978	44.2	Pass
T8	160 - 140	Leg	ROHN 2.5 EH	233	-44.426	79.978	55.5	Pass
T9	140 - 120	Leg	ROHN 2.5 EH	266	-56.717	79.978	70.9	Pass
T10	120 - 100	Leg	ROHN 2.5 EH	299	-56.968	79.978	71.2	Pass
T11	100 - 80	Leg	ROHN 2.5 EH	332	-47.922	79.978	59.9	Pass
T12	80 - 60	Leg	ROHN 2.5 EH	364	-49.714	79.978	62.2	Pass
T13	60 - 40	Leg	ROHN 2.5 EH	397	-53.111	79.978	66.4	Pass
T14	40 - 20	Leg	ROHN 2.5 EH	430	-53.270	79.978	66.6	Pass
T15	20 - 4.81771	Leg	ROHN 2.5 EH	463	-52.453	79.978	65.6	Pass
T16	4.81771 - 0	Leg	ROHN 2.5 STD	491	-53.862	75.174	71.6	Pass
T1	300 - 280	Diagonal	ROHN 1.5 x 11GA	18	-6.433	11.828	54.4 63.0 (b)	Pass
T2	280 - 260	Diagonal	ROHN 1.5 x 11GA	65	-3.232	11.828	27.3 31.5 (b)	Pass
T3	260 - 240	Diagonal	ROHN 1.5 x 11GA	78	-2.255	11.828	19.1 21.9 (b)	Pass
T4	240 - 220	Diagonal	ROHN 1.5 x 11GA	110	-4.384	11.655	37.6 48.6 (b)	Pass
T5	220 - 200	Diagonal	ROHN 1.5 x 11GA	164	-3.856	11.828	32.6 37.5 (b)	Pass
T6	200 - 180	Diagonal	ROHN 1.5 x 11GA	196	-1.681	11.828	14.2 16.4 (b)	Pass
T7	180 - 160	Diagonal	ROHN 1.5 x 11GA	209	-2.702	11.828	22.8 26.3 (b)	Pass
T8	160 - 140	Diagonal	ROHN 1.5 x 11GA	257	-4.096	11.828	34.6 40.2 (b)	Pass
T9	140 - 120	Diagonal	ROHN 1.5 x 11GA	296	-3.352	11.828	28.3 32.6 (b)	Pass
T10	120 - 100	Diagonal	ROHN 1.5 x 11GA	308	-2.891	11.828	24.4 28.1 (b)	Pass
T11	100 - 80	Diagonal	ROHN 1.5 x 11GA	341	-4.618	11.828	39.0 45.0 (b)	Pass
T12	80 - 60	Diagonal	ROHN 1.5 x 11GA	393	-2.768	11.828	23.4 27.9 (b)	Pass
T13	60 - 40	Diagonal	ROHN 1.5 x 11GA	428	-1.659	11.828	14.0 16.7 (b)	Pass
T14	40 - 20	Diagonal	ROHN 1.5 x 11GA	441	-2.070	11.828	17.5 20.1 (b)	Pass
T15	20 - 4.81771	Diagonal	ROHN 1.5 x 11GA	474	-2.458	11.828	20.8 23.9 (b)	Pass

Section No.	Elevation (ft)	Component Type	Size	Critical Element	P (K)	SF*P_allow (K)	% Capacity	Pass / Fail
T16	4.81771 - 0	Horizontal	L4x4x1/4	498	-0.584	61.857	6.2	Pass
T1	300 - 280	Top Girt	ROHN 1.5 x 11GA	4	-0.715	14.231	5.0 7.0 (b)	Pass
T2	280 - 260	Top Girt	ROHN 1.5 x 11GA	38	-1.061	14.231	7.5 14.9 (b)	Pass
T3	260 - 240	Top Girt	ROHN 1.5 x 11GA	71	-0.505	14.231	3.6 6.3 (b)	Pass
T4	240 - 220	Top Girt	ROHN 1.5 x 11GA	105	-0.949	14.092	6.7 11.1 (b)	Pass
T5	220 - 200	Top Girt	ROHN 1.5 x 11GA	137	-1.533	14.231	10.8 19.7 (b)	Pass
T6	200 - 180	Top Girt	ROHN 1.5 x 11GA	169	0.857	20.649	4.1 8.3 (b)	Pass
T7	180 - 160	Top Girt	ROHN 1.5 x 11GA	204	0.768	20.649	3.7 7.5 (b)	Pass
T8	160 - 140	Top Girt	ROHN 1.5 x 11GA	236	1.275	20.649	6.2 12.4 (b)	Pass
T9	140 - 120	Top Girt	ROHN 1.5 x 11GA	270	-1.154	14.231	8.1 12.8 (b)	Pass
T10	120 - 100	Top Girt	ROHN 1.5 x 11GA	301	-0.580	14.231	4.1 5.8 (b)	Pass
T11	100 - 80	Top Girt	ROHN 1.5 x 11GA	335	-1.002	14.231	7.0 10.5 (b)	Pass
T12	80 - 60	Top Girt	ROHN 1.5 x 11GA	367	1.285	20.649	6.2 12.5 (b)	Pass
T13	60 - 40	Top Girt	ROHN 1.5 x 11GA	401	-0.711	14.231	5.0 6.9 (b)	Pass
T14	40 - 20	Top Girt	ROHN 1.5 x 11GA	435	-0.312	14.231	2.2 3.0 (b)	Pass
T15	20 - 4.81771	Top Girt	ROHN 1.5 x 11GA	468	-0.838	14.231	5.9 8.2 (b)	Pass
T16	4.81771 - 0	Top Girt	L4x4x1/4	495	8.900	62.856	14.2	Pass
T1	300 - 280	Bottom Girt	ROHN 1.5 x 11GA	8	-2.076	14.231	14.6 20.2 (b)	Pass
T2	280 - 260	Bottom Girt	ROHN 1.5 x 11GA	40	-0.621	14.231	4.4 6.0 (b)	Pass
T3	260 - 240	Bottom Girt	ROHN 1.5 x 11GA	75	-0.956	14.231	6.7 10.2 (b)	Pass
T4	240 - 220	Bottom Girt	ROHN 1.5 x 11GA	106	-1.749	14.092	12.4 19.4 (b)	Pass
T5	220 - 200	Bottom Girt	ROHN 1.5 x 11GA	139	-0.784	14.231	5.5 7.6 (b)	Pass
T6	200 - 180	Bottom Girt	ROHN 1.5 x 11GA	174	-0.575	14.231	4.0 5.6 (b)	Pass
T7	180 - 160	Bottom Girt	ROHN 1.5 x 11GA	205	-1.281	14.231	9.0 13.4 (b)	Pass
T8	160 - 140	Bottom Girt	ROHN 1.5 x 11GA	240	-1.312	14.231	9.2 13.4 (b)	Pass
T9	140 - 120	Bottom Girt	ROHN 1.5 x 11GA	273	0.761	20.649	3.7 7.4 (b)	Pass
T10	120 - 100	Bottom Girt	ROHN 1.5 x 11GA	305	-0.847	14.231	5.9 10.6 (b)	Pass
T11	100 - 80	Bottom Girt	ROHN 1.5 x 11GA	338	-1.907	14.231	13.4 23.3 (b)	Pass
T12	80 - 60	Bottom Girt	ROHN 1.5 x 11GA	371	0.935	20.649	4.5 9.1 (b)	Pass
T13	60 - 40	Bottom Girt	ROHN 1.5 x 11GA	405	0.386	20.649	1.9 3.8 (b)	Pass

Section No.	Elevation (ft)	Component Type	Size	Critical Element	P (K)	SF*P_allow (K)	% Capacity	Pass / Fail
T14	40 - 20	Bottom Girt	ROHN 1.5 x 11GA	438	0.941	20.649	4.6 9.2 (b)	Pass
T15	20 - 4.81771	Bottom Girt	ROHN 1.5 x 11GA	471	2.529	19.665	12.9 24.6 (b)	Pass
T1	300 - 280	Guy A @ 282.523	5/8 (ECP - 23000)	543	12.757	26.711	47.8	Pass
T4	240 - 220	Guy A @ 222.523	7/16 (ECP - 23000)	528	7.080	13.104	54.0	Pass
T8	160 - 140	Guy A @ 159.385	1/2 (ECP - 23000)	516	12.021	16.947	70.9	Pass
T12	80 - 60	Guy A @ 79.3854	7/16 (ECP - 23000)	510	9.893	13.104	75.5	Pass
T1	300 - 280	Guy B @ 282.523	5/8 (ECP - 23000)	540	13.232	26.711	49.5	Pass
T4	240 - 220	Guy B @ 222.523	7/16 (ECP - 23000)	525	7.246	13.104	55.3	Pass
T8	160 - 140	Guy B @ 159.385	1/2 (ECP - 23000)	515	12.418	16.947	73.3	Pass
T12	80 - 60	Guy B @ 79.3854	7/16 (ECP - 23000)	509	10.310	13.104	78.7	Pass
T1	300 - 280	Guy C @ 282.523	5/8 (ECP - 23000)	532	13.095	26.711	49.0	Pass
T4	240 - 220	Guy C @ 222.523	7/16 (ECP - 23000)	517	7.122	13.104	54.3	Pass
T8	160 - 140	Guy C @ 159.385	1/2 (ECP - 23000)	511	12.112	16.947	71.5	Pass
T12	80 - 60	Guy C @ 79.3854	7/16 (ECP - 23000)	505	10.129	13.104	77.3	Pass
T1	300 - 280	Top Guy Pull-Off @ 282.523	2L2x2x1/4x3/8	538	-7.382	45.798	16.1	Pass
T4	240 - 220	Top Guy Pull-Off @ 222.523	2L2x2x1/4x3/8	521	-5.048	45.153	11.2	Pass
T8	160 - 140	Top Guy Pull-Off @ 159.385	4 1/2x3/8	513	4.136	57.409	7.2	Pass
T12	80 - 60	Top Guy Pull-Off @ 79.3854	4 1/2x3/8	506	-0.317	3.227	9.8	Pass
T1	300 - 280	Torque Arm Top @ 282.523	C15x33.9	541	2.627	338.839	25.5	Pass
T4	240 - 220	Torque Arm Top @ 222.523	C10x15.3	526	-1.404	129.627	39.2	Pass
Summary								
Leg (T4)							77.9	Pass
Diagonal (T1)							63.0	Pass
Horizontal (T16)							6.2	Pass
Top Girt (T5)							19.7	Pass
Bottom Girt (T15)							24.6	Pass
Guy A (T12)							75.5	Pass
Guy B (T12)							78.7	Pass
Guy C (T12)							77.3	Pass
Top Guy Pull-Off (T1)							16.1	Pass
Torque Arm Top (T4)							39.2	Pass
Bolt Checks							63.0	Pass
Rating =							78.7	Pass

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Table 5 - Tower Component Stresses vs. Capacity - LC7

Notes	Component	Elevation (ft)	% Capacity	Pass / Fail
1	Base Foundation (Structure)	0	15.9	Pass
1	Base Foundation (Soil Interaction)	0	25.9	Pass
1	Guy Anchor Shaft	0	58.9	Pass
1	Guy Anchor Foundation Soil Interaction	0	11.2	Pass
Structure Rating (max from all components) =				76.7%

Notes:

- 1) See additional documentation in "Appendix C – Additional Calculations" for calculations supporting the % capacity consumed.

4.1) Recommendations

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

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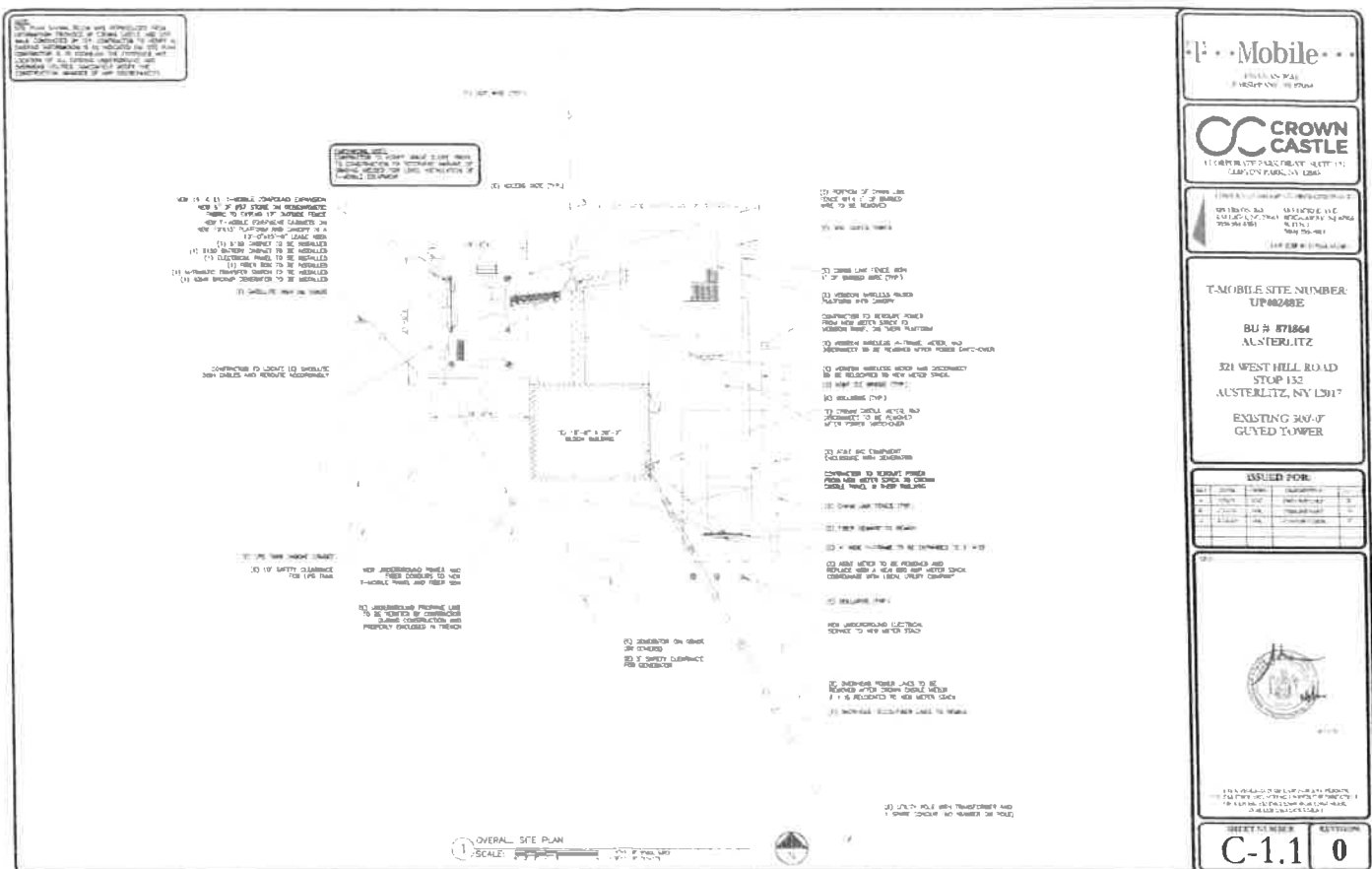
1270644 45748123 92323

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101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	

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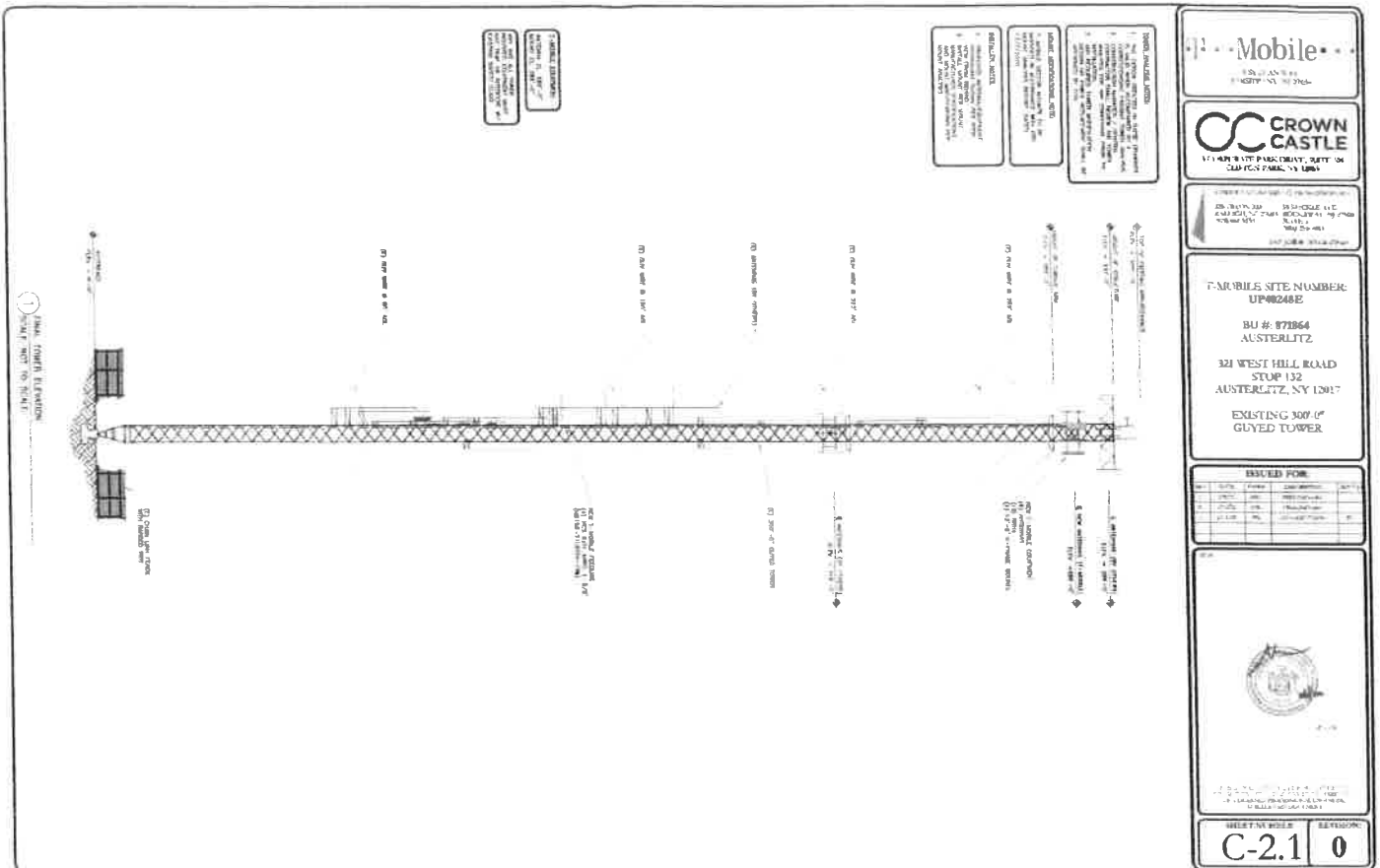
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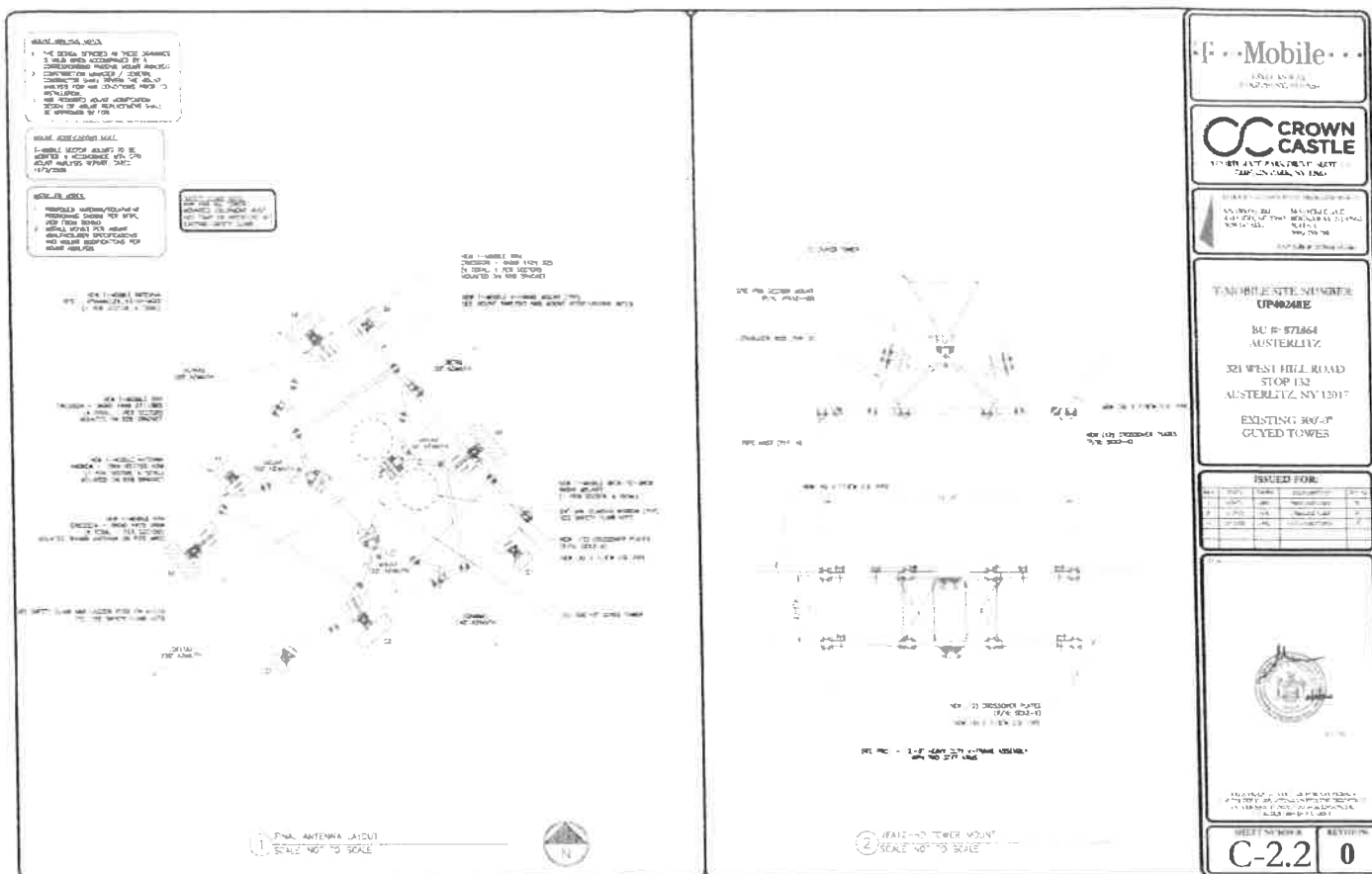
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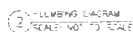
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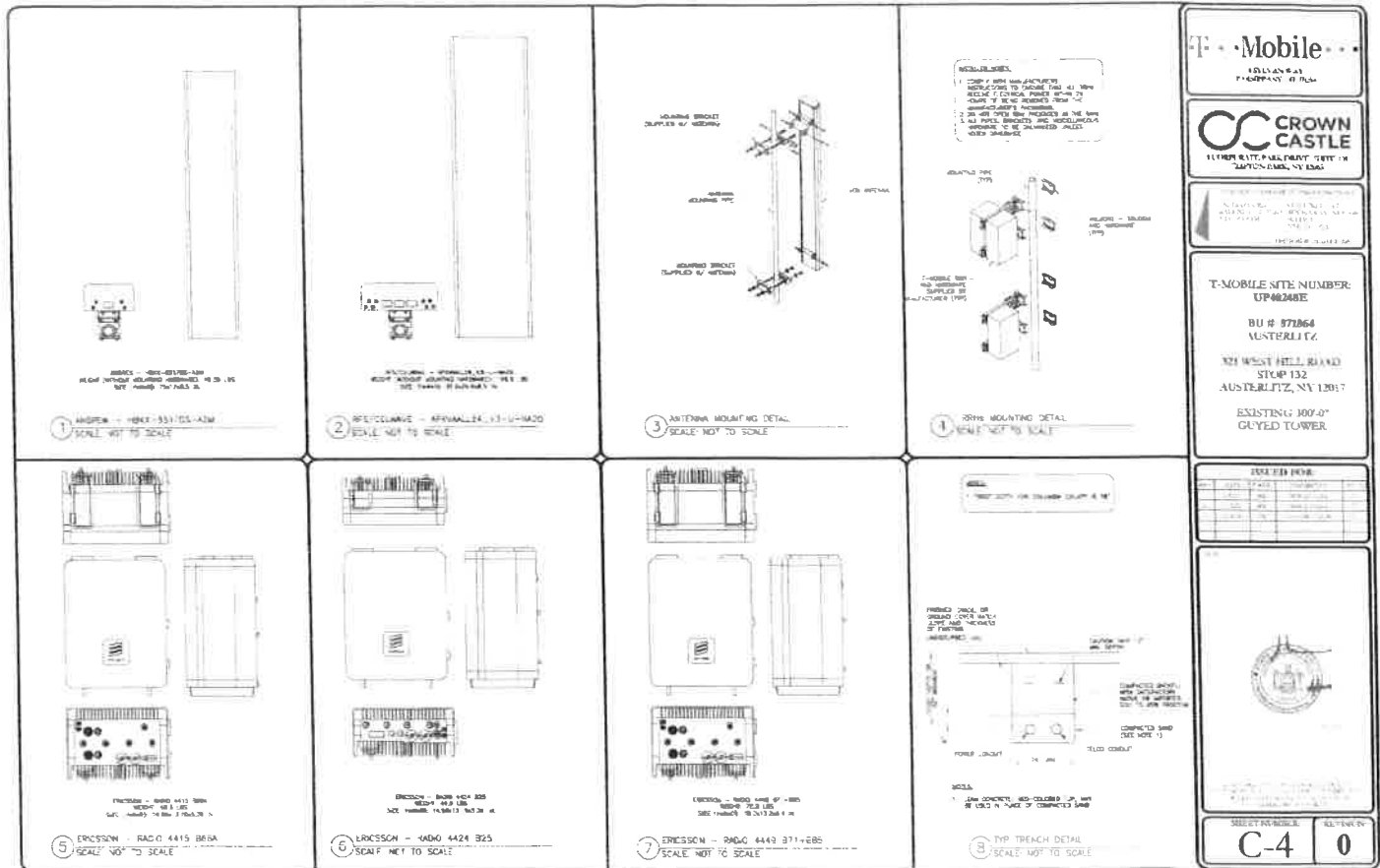
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NEW TABLE SCHEDULE			
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NEW	TABLE	1234	---
NEW	TABLE	1234	---
TABLE STATUS			

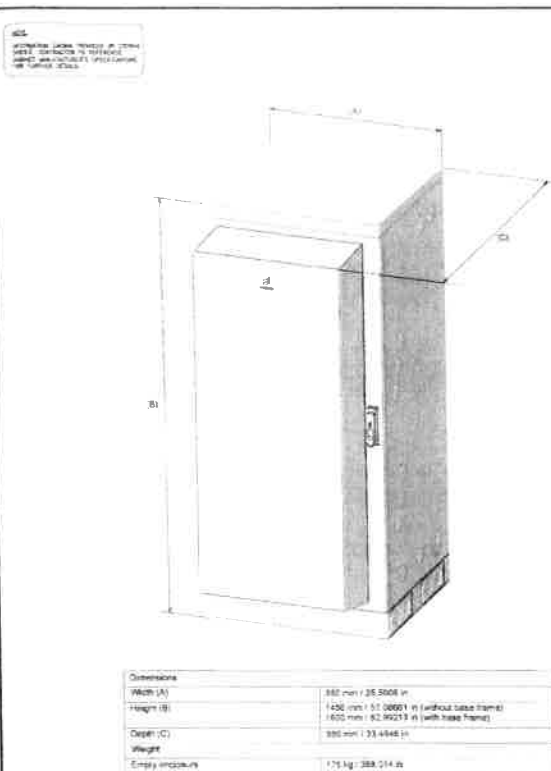
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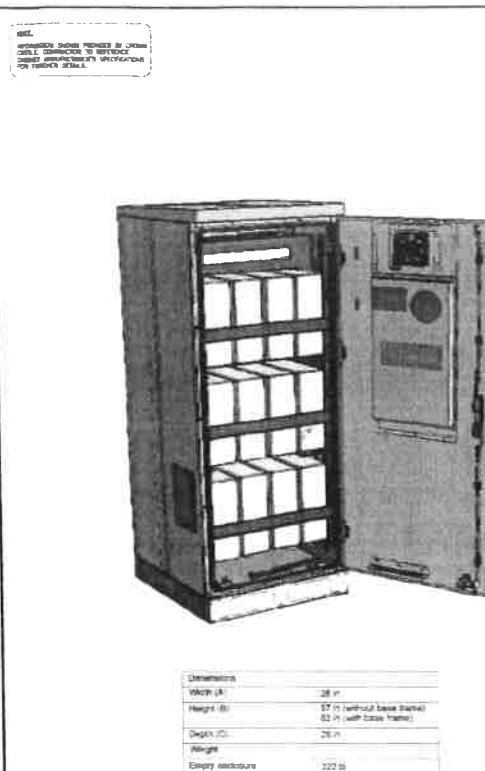
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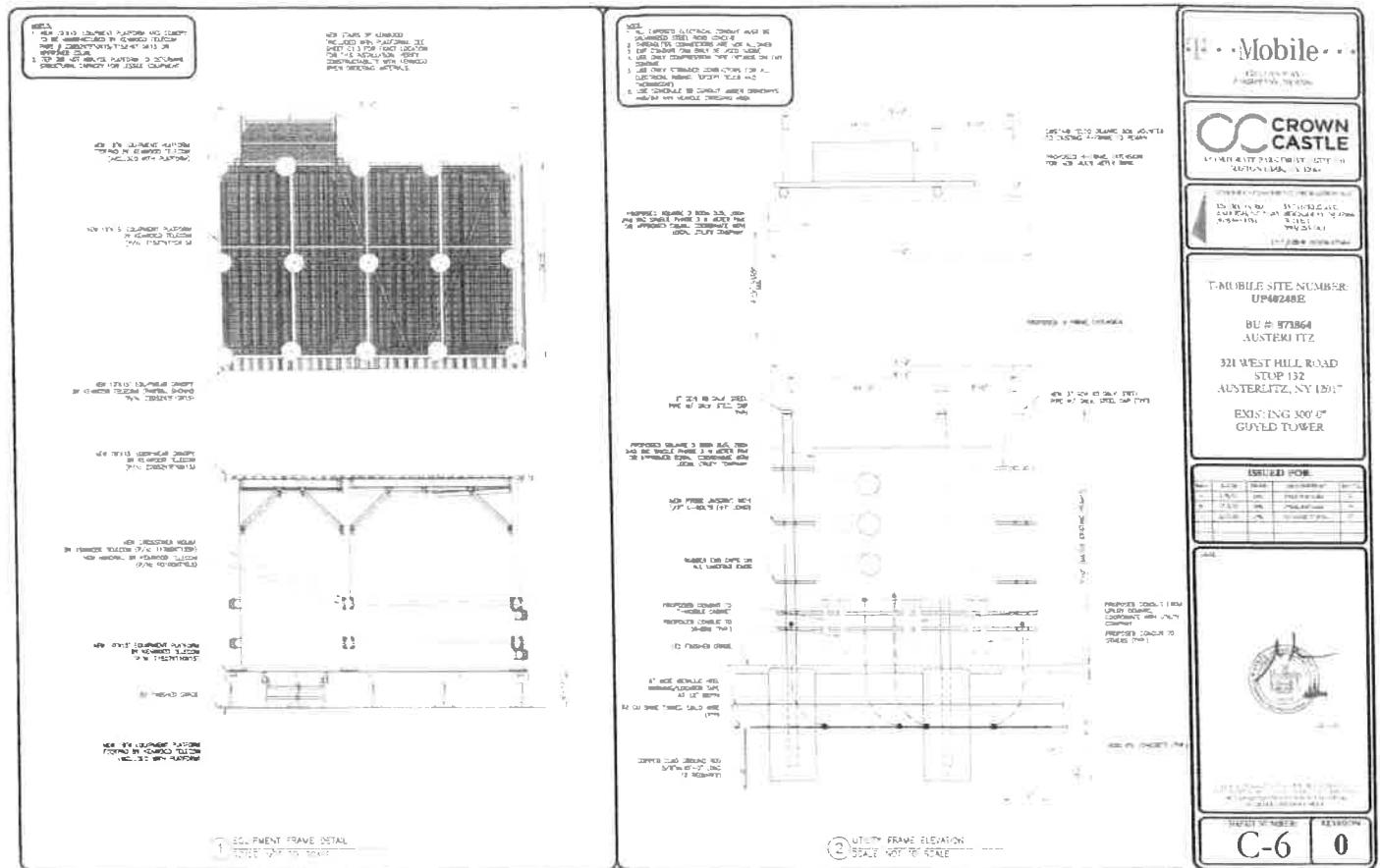
1 ERICSSON 3180 CABINET DETAILS
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2 ERICSSON 3150 CABINET DETAILS
SCALE NOT TO SCALE

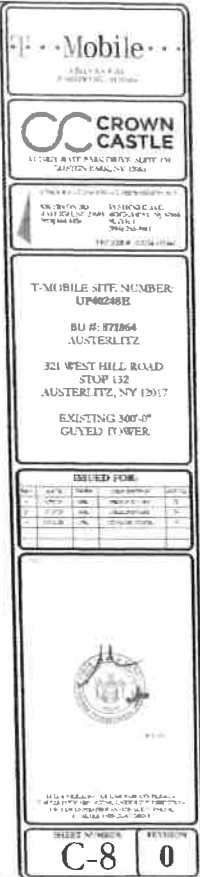
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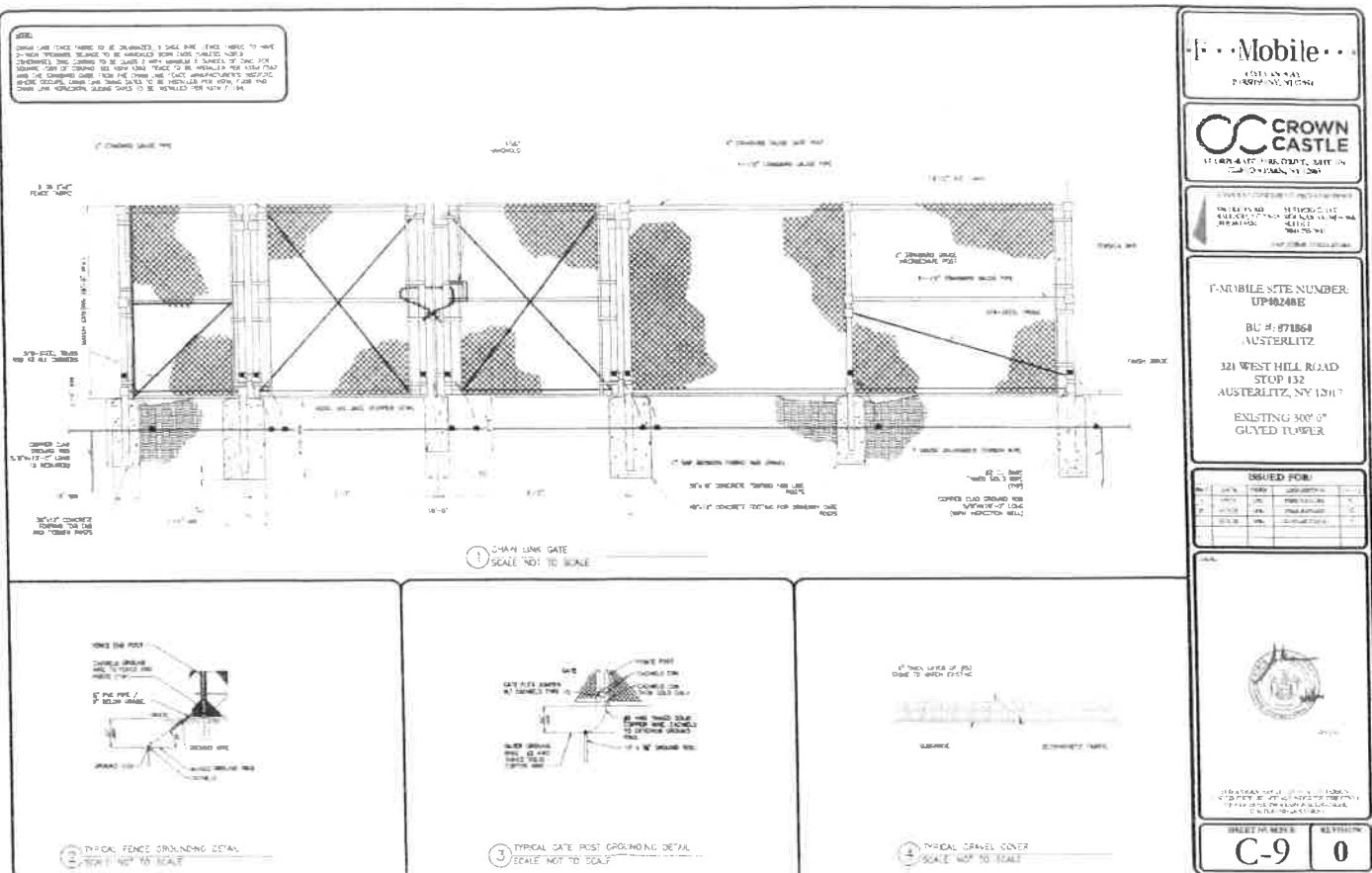


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DATE _____
 DEPARTMENT SHALL BE 3 WEEKS FOR



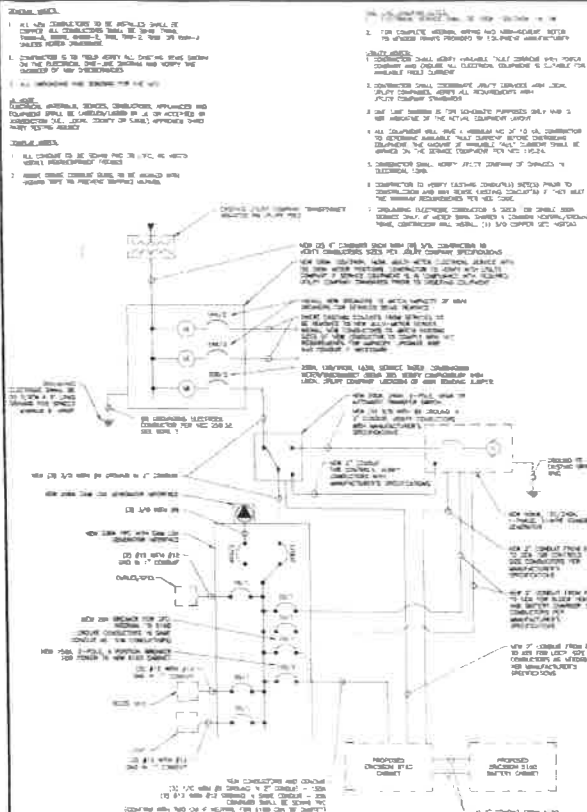
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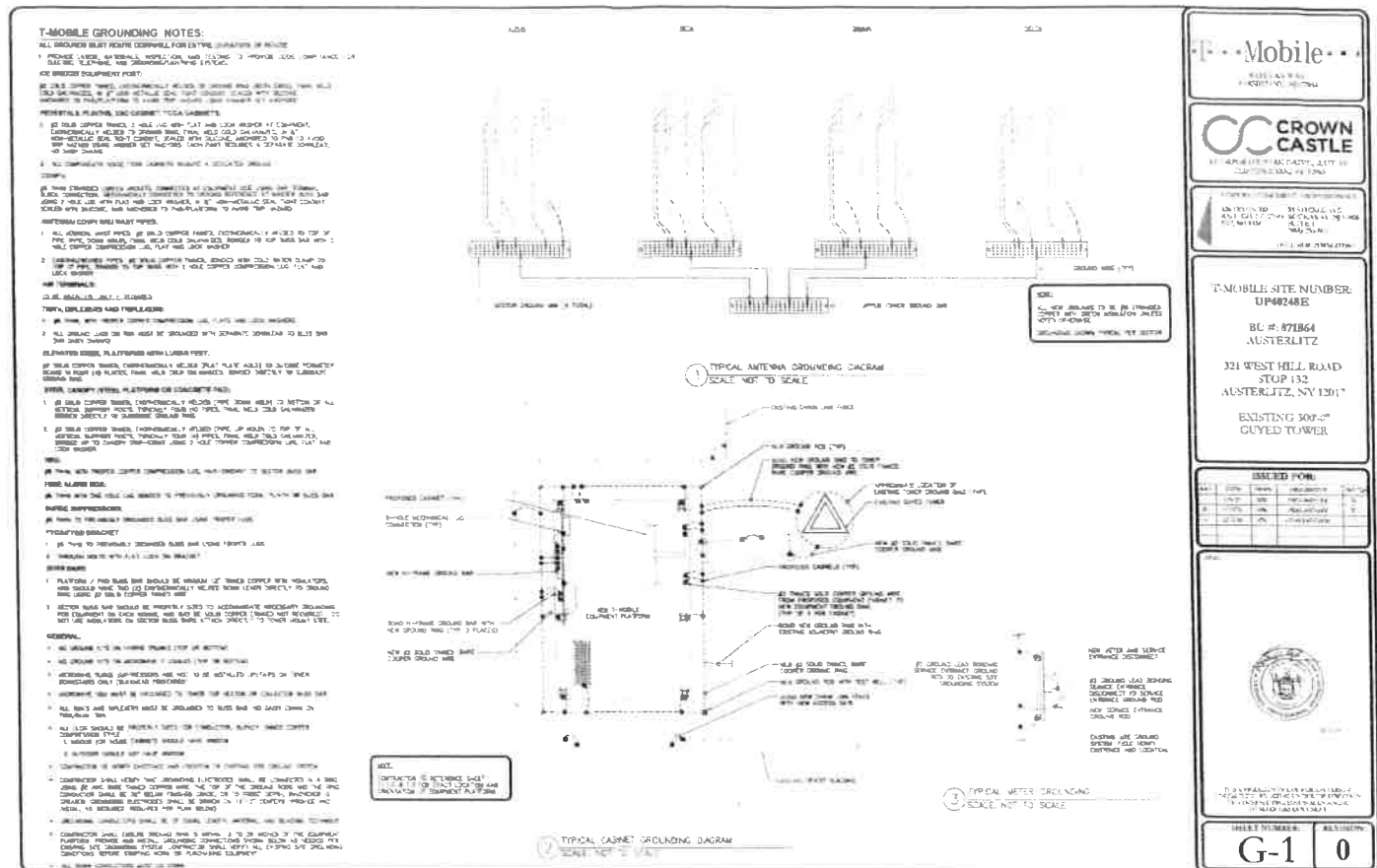
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SHEET NUMBER:	REVISED:
E-1	0

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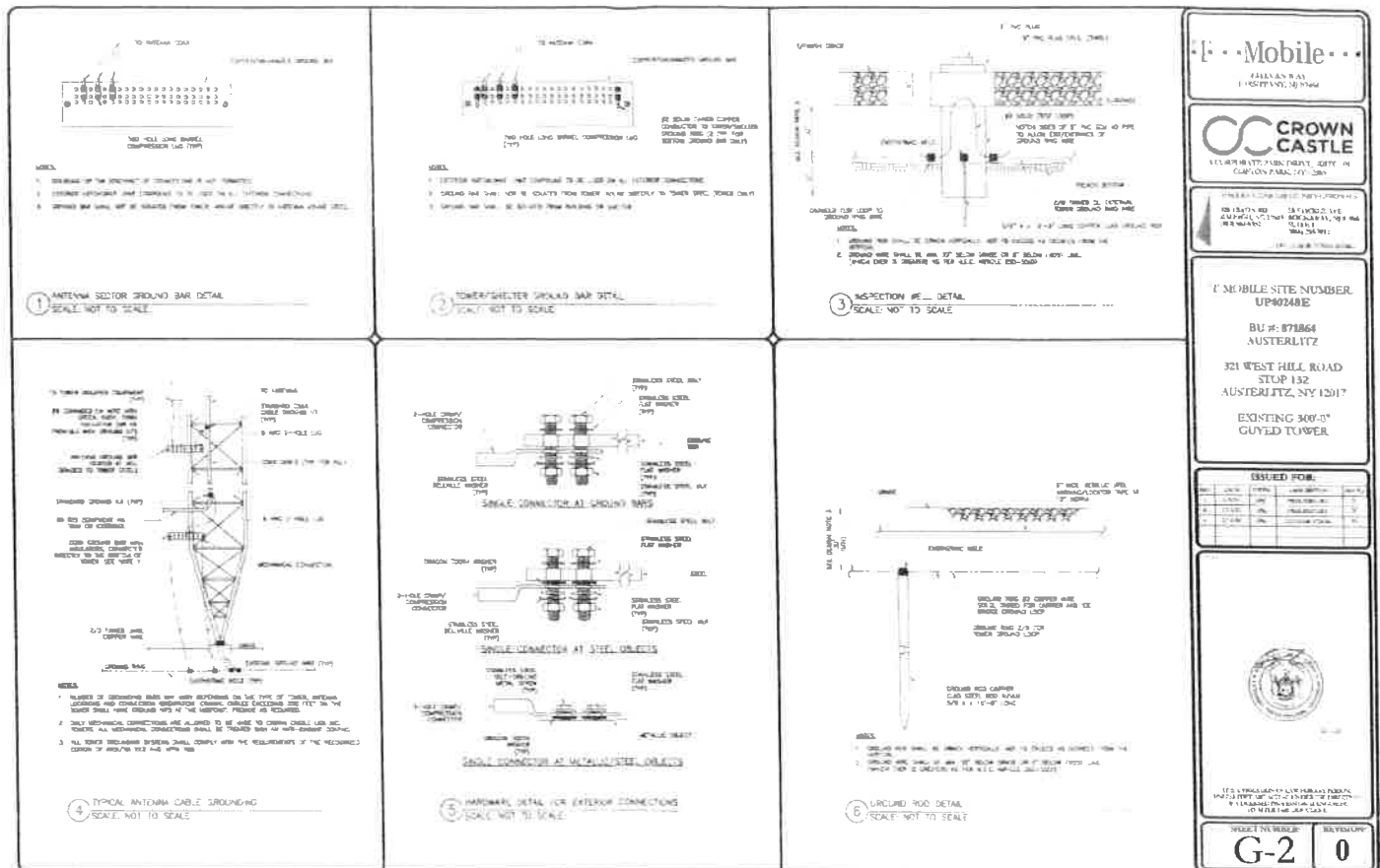
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1 DETAILED GROUNDING CONNECTIONS
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WIRE SIZE	CLAMP SIZE	CLAMP TYPE
1/2" - 1/4" (1/2" - 1/4")	1/2" - 1/4"	1/2" - 1/4"
1/4" - 1/8" (1/4" - 1/8")	1/4" - 1/8"	1/4" - 1/8"
1/8" - 1/16" (1/8" - 1/16")	1/8" - 1/16"	1/8" - 1/16"
1/16" - 1/32" (1/16" - 1/32")	1/16" - 1/32"	1/16" - 1/32"
1/32" - 1/64" (1/32" - 1/64")	1/32" - 1/64"	1/32" - 1/64"
1/64" - 1/128" (1/64" - 1/128")	1/64" - 1/128"	1/64" - 1/128"

2 MECHANICAL LUG CONNECTION
SCALE: NOT TO SCALE

3 GROUND CABLE CONNECTION
SCALE: NOT TO SCALE

4 GROUNDING BAR DETAIL
SCALE: NOT TO SCALE

5 GROUNDING BAR DETAIL
SCALE: NOT TO SCALE

6 GROUNDING BAR DETAIL
SCALE: NOT TO SCALE

7 GROUNDING BAR DETAIL
SCALE: NOT TO SCALE

8 GROUNDING BAR DETAIL
SCALE: NOT TO SCALE

9 GROUNDING BAR DETAIL
SCALE: NOT TO SCALE

Mobile

CROWN CASTLE

1000 WEST HILL ROAD
SUITE 100
WESTERLITZ, NY 12141

TEL: 518-486-1100
FAX: 518-486-1101
WWW.CROWNCASTLE.COM

MOBILE SITE NUMBER
UP40245E

AL # 471864
WESTERLITZ, NY 12141

EXISTING 90' GUYED TOWER

ISSUED FOR:

DATE	BY	REVISION
10/1/2010	W. J. HARRIS	1
10/1/2010	W. J. HARRIS	2
10/1/2010	W. J. HARRIS	3
10/1/2010	W. J. HARRIS	4
10/1/2010	W. J. HARRIS	5
10/1/2010	W. J. HARRIS	6
10/1/2010	W. J. HARRIS	7
10/1/2010	W. J. HARRIS	8
10/1/2010	W. J. HARRIS	9
10/1/2010	W. J. HARRIS	10
10/1/2010	W. J. HARRIS	11
10/1/2010	W. J. HARRIS	12
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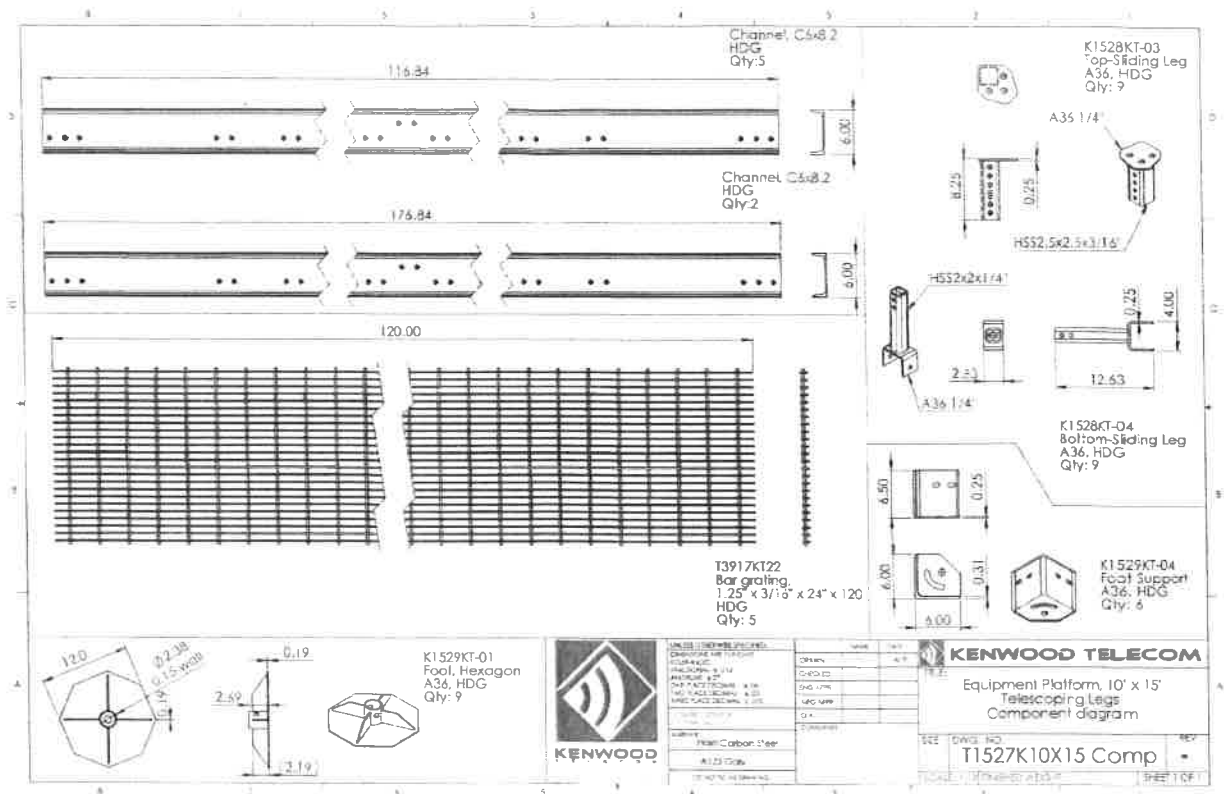
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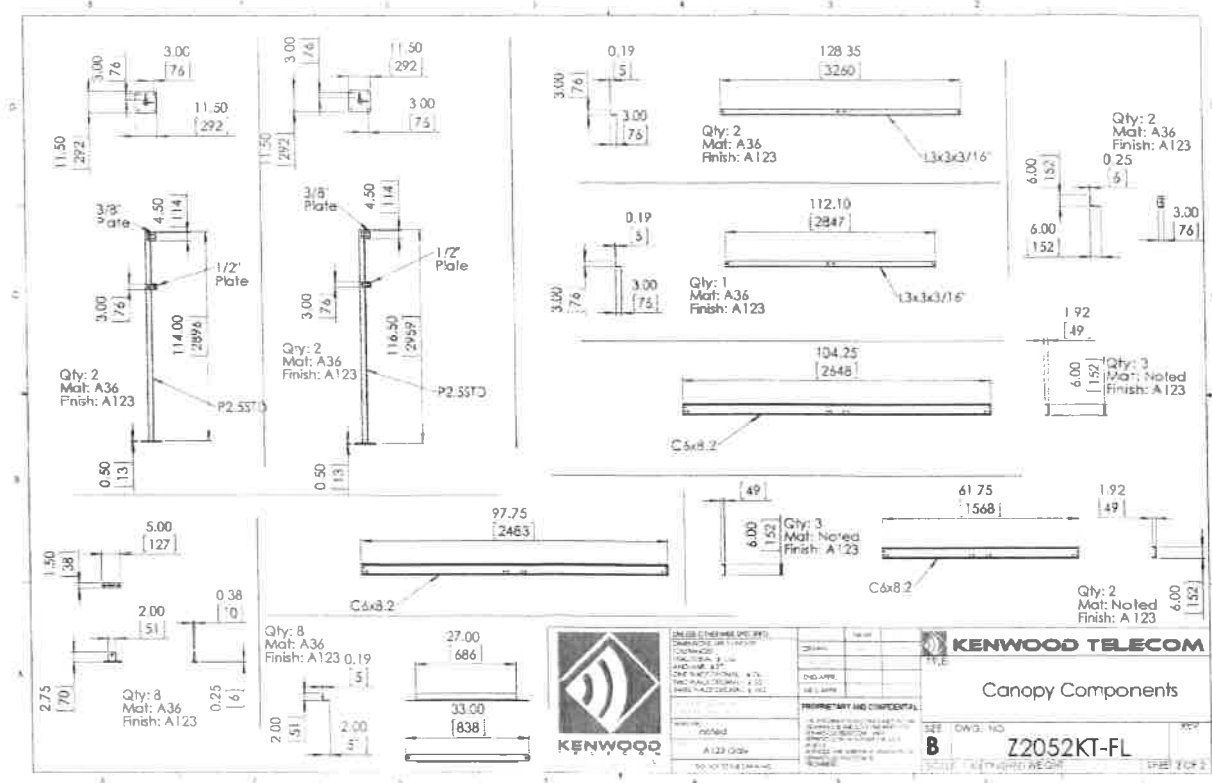
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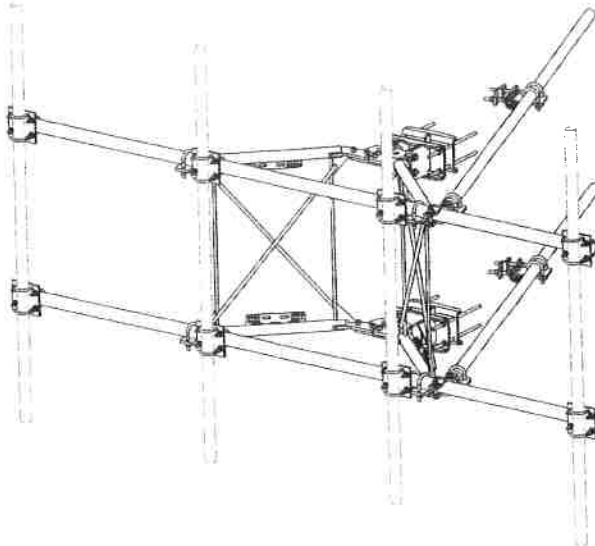
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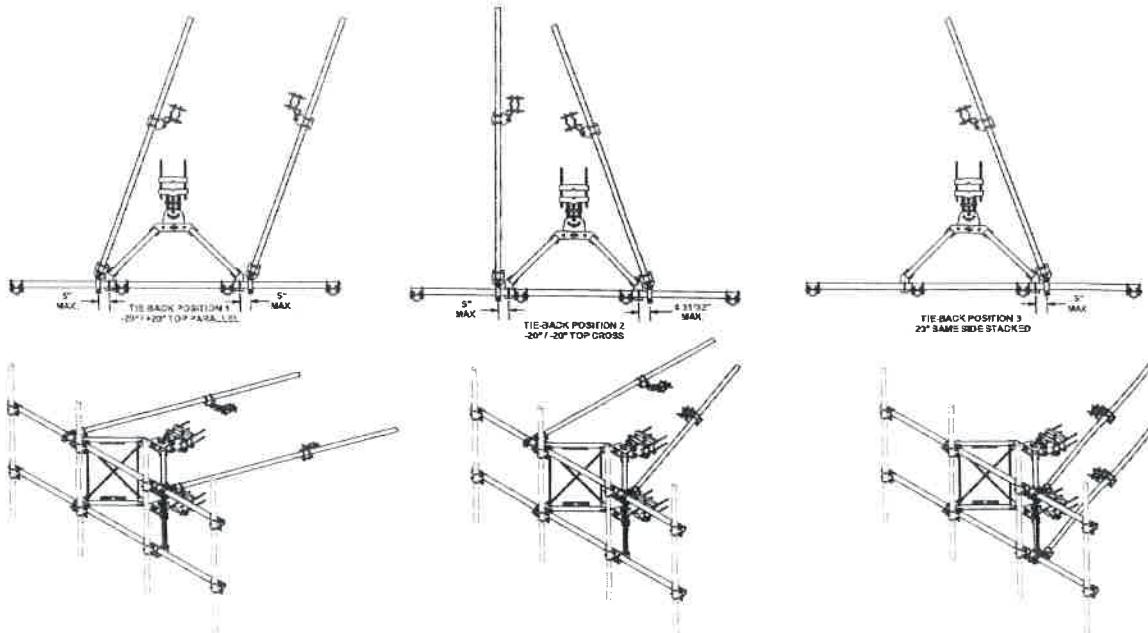


PARTS LIST						
ITEM	QTY	PART NO	PART DESCRIPTION	LENGTH	UNIT WT	NET WT
1	2	K3FAW	SUPPORT ARM		71.41	142.81
2	1	KHDCAM13W	CLAMP WELDMENT FOR SCAM-H		33.90	33.90
3	1	KHFAH10	1/2" HOLE TAPER PLATE WELDMENT		36.34	36.34
4	1	KHFAH4	1/4" HOLE TAPER PLATE WELDMENT	12 in	15.88	31.77
5	3	KLCBPA	BENT BACKING PLATE		40.29	120.87
6	1	K-HDCAMBS	ANGLE ADJUSTMENT WELDMENT FOR SCAM-H		18.39	18.39
7	4	E-5FTB	SLIDING RITE BACK PLATE	5 1/2 in	5.87	23.48
8	1	HDCAMSP	POSITIONING PLATE WELDMENT FOR SCAM-H		2.58	2.58
9	4	K-TBCA	TEE BACK CLIP ANGLE		2.01	8.03
11	9	BCK2	GRDSOVER PLATE	7 in	8.80	38.37
13	4	BCP	CLAMP 1/4" HOLE, 1 1/8" LONG	12 1/16 in	5.59	14.37
14	4	BCP	1/2" THICK, 5/8" DIA, CENTER TO CENTER CLAMP HALF	9 1/8 in	1.98	7.92
15	2	P2115	2.5"x3" 120° (3" SCH.) 40 GALVANIZED PIPE	128 in	40.79	81.50
16	2	P30150	2 1/8" X 100" (2 1/8" SCH.) 40 GALVANIZED PIPE	100 in	76.54	153.07
15	4	A34212	3/4" x 2-1/2" UNC HEX BOLT (A325)	2 1/2 in	0.48	1.92
16	4	G34FW	3/4" HDG USS FLATWASHER		0.06	0.24
17	4	G34LW	3/4" HDG LOCKWASHER		0.24	0.97
18	4	G34HUT	3/4" HDG HEAVY ZH HEX NUT		0.41	0.85
19	8	G34R18	5/8" x 1 1/2" THREADED ROD (HDG)		1.37	11.04
20	4	G34R12	5/8" x 12" THREADED ROD (HDG)		2.79	11.16
21	4	G34R18	5/8" x 18" THREADED ROD (HDG)		3.79	2.79
22	4	XUB5500	5/8" x 3" x 5/16" x 3/4" U-BOLT (HDG)		1.15	4.63
23	3	XUB5258	5/8" x 2.58" x 4/12" x 3/4" U-BOLT (HDG)		1.00	8.39
24	2	G5907	5/8" x 7" HDG HEX BOLT GR5 FULL THREAD	7 in	0.70	1.41
25	1	G5907	5/8" x 4" HDG HEX BOLT GR5 FULL THREAD	9 in	0.82	0.82
26	8	G5904	5/8" x HDG HEX BOLT GR5		0.44	3.55
27	8	G5902	3/4" x 7" HDG HEX BOLT GR5		0.44	3.55
28	9	A32114	5/8" x 2 1/4" HDG A325 HEX BOLT	2 1/4 in	0.31	2.90
29	29	G58FW	5/8" HDG USS FLATWASHER	1 1/8 in	0.97	1.76
30	58	G58LW	5/8" HDG LOCKWASHER		0.93	1.72
31	7	G58HUT	5/8" HDG HEAVY ZH HEX NUT		0.13	9.73
32	32	KUB1300	1/2" x 3/4" x 4" x 2" U-BOLT		0.74	23.64
33	18	XUB1913	1/2" x 1 1/2" x 4/12" x 3/4" U-BOLT (HDG)		0.80	9.55
34	54	G10FW	1/2" HDG USS FLATWASHER	8 3/32 in	0.51	2.76
35	4	G12LW	1/2" HDG LOCKWASHER	1 1/8 in	0.01	0.88
36	54	G12HUT	1/2" HDG HEAVY ZH HEX NUT		0.02	4.56
					TOTAL WT	8740.25

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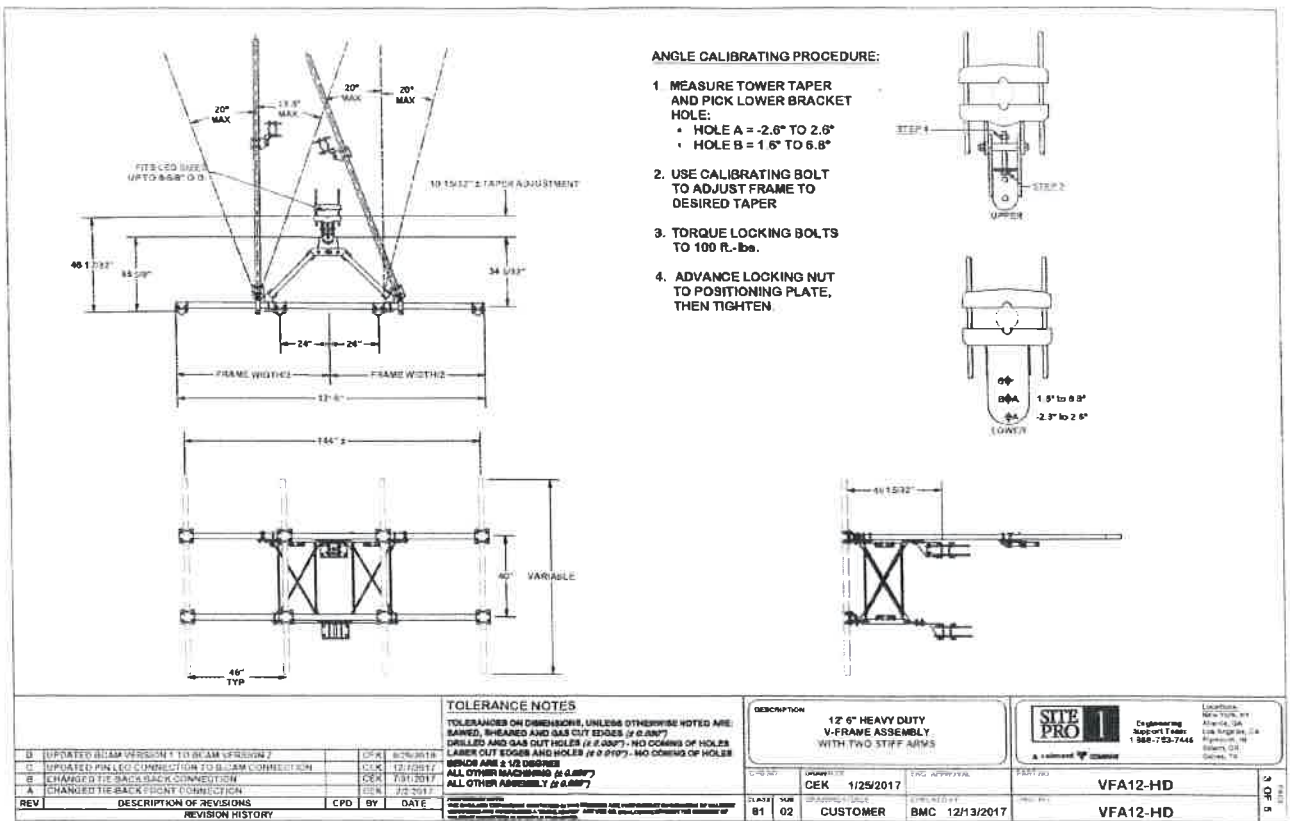
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TIE-BACK POSITIONS

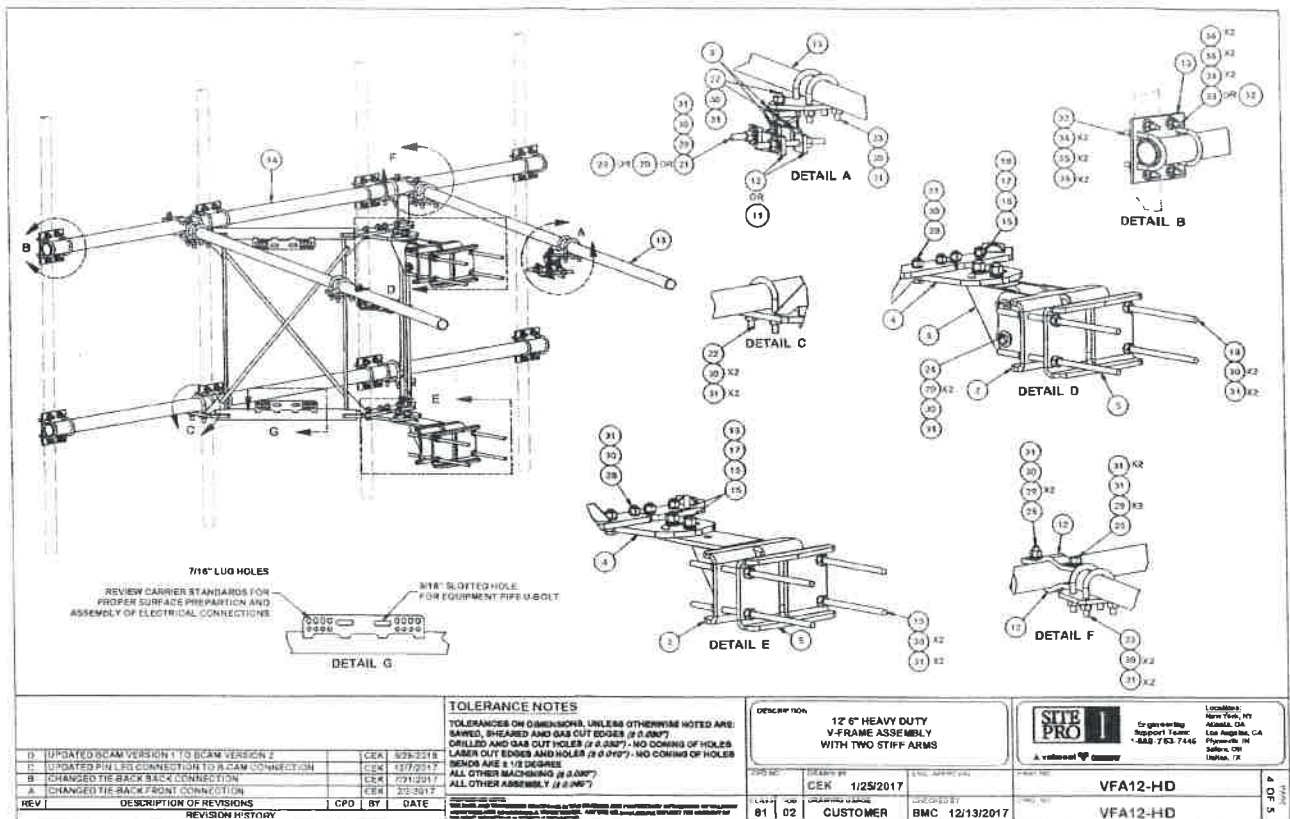


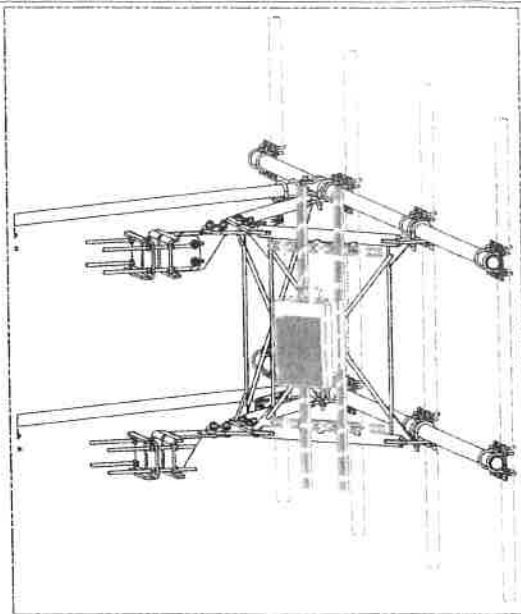
TOLERANCE NOTES				DESCRIPTION			
TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE: SAVED, SHAVED AND GAS CUT EDGES (± 0.007") DRILLED AND GAS CUT HOLES (± 0.007") - NO CONING OF HOLES LARGER CUT EDGES AND HOLES (± 0.010") - NO CONING OF HOLES BORE AND 1/2 DEGREE ALL OTHER MACHINING (± 0.007") ALL OTHER ASSEMBLY (± 0.007")				12 5" HEAVY DUTY V-FRAME ASSEMBLY WITH TWO STIFF ARMS			
REVISION HISTORY				SITE PRO 1			
REV	DESCRIPTION OF REVISIONS	OPD	BY	DATE	CUSTOMER		
1	UPDATED FROM VERSION 1 TO 2	CEK	1/25/2017		BMC 12/13/2017		
2	UPDATED FROM CONNECTION TO 3-ARM CONNECTION	CEK	1/27/2017		VFA12-HD		
3	CHANGED THE BACK BACK CONNECTION	CEK	1/27/2017		VFA12-HD		
4	CHANGED THE BACK FRONT CONNECTION	CEK	1/27/2017		VFA12-HD		

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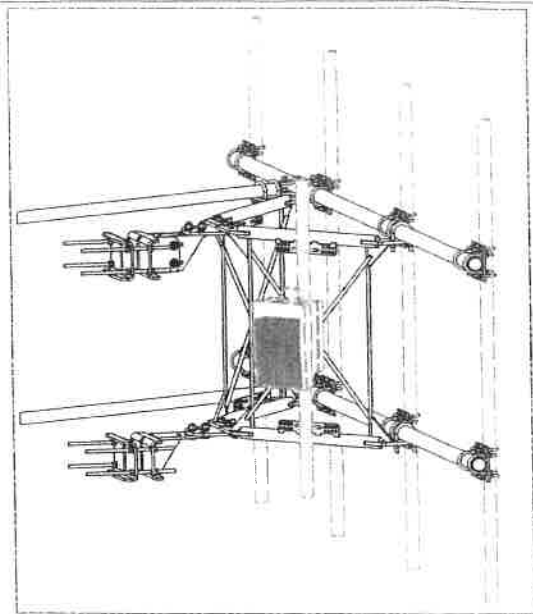


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UNISTRUT AND HARDWARE
SOLD SEPARATELY.
REQUIRES 3/8" HARDWARE



EQUIPMENT PIPE AND HARDWARE
SOLD SEPARATELY.
REQUIRES 1/2" HARDWARE
AND 2-3/8" TO 4-1/2" O.D. PIPE

				TOLERANCE NOTES				DESCRIPTION				SITE PRO 1				Engineering New York, NY Atlanta, GA Support Team 1-866-753-7448 Phoenix, AZ Dallas, TX			
				TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE: SAVED, SHEARED AND GAS CUT EDGES (± 0.007") DRILLED AND GAS CUT HOLES (± 0.007") - NO CORING OF HOLES LARGER CUT EDGES AND HOLES (± 0.015") - NO CORING OF HOLES BENDS ARE ± 0.005" ALL OTHER MACHINING (± 0.007") ALL OTHER ASSEMBLY (± 0.007")				12" 6" HEAVY DUTY V-FRAME ASSEMBLY WITH TWO STIFF ARMS											
D	UPDATED B-CAM VERSION 1 TO B-CAM VERSION 2	CEK	1/25/2017	CPO NO	CEK	1/25/2017	CLASS	81	02	CUSTOMER	BMC	12/13/2017	DATE						
C	UPDATED PIN-LEG CONNECTION TO B-CAM CONNECTION	CEK	1/25/2017																
B	CHANGED THE BACK BACK CONNECTION	CEK	1/25/2017																
A	CHANGED THE BACK FRONT CONNECTION	CEK	1/25/2017																
REV	DESCRIPTION OF REVISIONS	CPO	BY	DATE															
REVISION HISTORY																			

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Model: 40RE0ZK

208-600 V Diesel

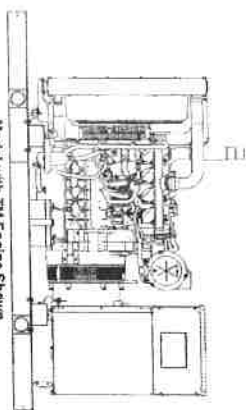
Tier 3 EPA-Certified for Stationary Emergency Applications

Standard Features

- Kohler Co. provides on-site source responsibility for the generating system and accessories.
- The generator set and its components are prototype-tested, factory-built, and production-tested.
- The 60-Hz generator set offers a UL 2200 listing.
- The generator set accepts rated load in one step.
- The 60-Hz generator set meets NFPA 110, Level 1, when equipped with the necessary accessories.

Ratings Range

Standby:	60 Hz
Prime:	37-42 kW
	37-52 kVA
	34-37 kW
	34-46 kVA



Model with TM Engine Shown

Generator Set Ratings

Alternator	Voltage	Ph	Hz	130°C Rise		105°C Rise	
				Standby Rating	Prime Rating	Standby Rating	Prime Rating
4D5X	120/240	1	00	40/40	168	36/36	150

- o Kohler designed conditions for pure source system integration and remote communication. See Contradictions on page 3.
- o The low coolant level shutdown prevents overheating (standard on radiator models only).
- o Integral vibration isolation eliminates the need for under-unit vibration spring isolators.
- o The generator set for 45-state applications is equipped with the KOI 3404 TM engine. The generator set that is CARB compliant/California South Coast Air Quality Management District (SCAQMD) pre-certified is equipped with the KOI 3404 TCR engine.

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Alternator Specifications

Specifications	Alternator
Manufacturer	Kohler
Type	4-Pole, Rotating-Field
Exciter Type	Brushless, Rare-Earth Permanent Magnet
Leads: quantity, type	12, Reconnectable
Voltage regulator	4, 110-120/220-240 V
Insulation:	Rigid Stator, Vulkaritz NEMA MG1
Material	Class H
Temperature rise	130°C, Standby
Rating: quantity, type	1, Sealed
Coupling	Flange Disc
Armature windings	Full
Voltage regulation, no-load to full-load	Controller Dependent
One-step load acceptance	100% of Rating
Unbalanced load capability	100% of Rated Standby Current

Application Data

Engine Electrical

Specifications	Alternator
Rated motor starting kVA:	(35% dip for voltages below)
480 V	138
480 V	180
480 V	180
240 V	92
240 V	113

Engine Electrical

Engine Electrical System	48-State Engine	California SCAQMD
Battery charging alternator:		
Ground (negative/positive)	Negative	
Voltage (DC)	12	
Amperage rating	90	
Starter motor rated voltage (DC)	12	
Battery, recommended cold cranking amps (CCA):		
Quantity, CCA rating	One, 650	
Battery voltage (DC)	12	

Fuel

Fuel System	48-State Engine	California SCAQMD
Fuel supply line, min. ID, mm (in.)	9.0 (0.31)	
Fuel return line, min. ID, mm (in.)	6.0 (0.25)	
Max. fuel flow, LPH (gph)	6.0 (20.0)	3.7 (12.1)
Max. fuel flow, LPH (gph)	46 (12.2)	87.4 (23.1)
Max. return line restriction, kPa (in. Hg)	20 (5.9)	11.7 (5.2)
Fuel filter	74 Microns	
Profilier	5 Microns @ 5 Microns @	
Primary/Water Separator	85% Efficiency	
Recommended fuel	#2 Ultra Low Sulfur Diesel	

Lubrication

Lubricating System	48-State Engine	California SCAQMD
Type	Full Pressure	
Oil pan capacity, L (qt.) §	15.3 (16.2)	
Oil pan capacity with filter, L (qt.) §	15.6 (16.5)	
Oil filter quantity, type §	1, Canridge	
Oil cooler	Water-Cooled	
§ Kohler recommends the use of Kohler Genuine oil and filters		

Exhaust	48-State Engine	California SCAQMD
Exhaust manifold type	Dry	
Exhaust flow at rated kW, m ³ /min (cfm)	8.1 (286)	
Exhaust temperature at rated kW, dry exhaust, °C (°F)	440 (814)	471 (880)
Minimum/maximum allowable back pressure, kPa (in. Hg)	6 (1.6)	8 (2.0)
Exhaust outlet size at engine hookup, mm (in.)	8 (2.7)	10.5 (4.0)
		63.5 (2.5)

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Application Data

Cooling

Radiator System	46-State Engine	California SCAOMD
Ambient temperature, °C (°F) *	50 (122)	
Engine jacket water capacity, L (gal)	4.5 (1.19)	
Radiator system capacity, including engine, L (gal)	12.3 (3.2)	
Engine jacket water flow, Lpm (gpm)	125 (3.3)	120 (3.2)
Water rejected to cooling water at rated kW, dry exhaust, kW (Btu/min.)	32 (182.1)	35 (198.1)
Water rejected to air charge cooler at rated kW, dry exhaust, kW (Btu/min.)	11 (62.8)	7.7 (43.7)
Water pump type	Centrifugal	
Fan diameter, including blades, mm (in)	587 (23.5)	
Fan, kWm (HP)	1.8 (2.3)	
Max. restriction of cooling air, intake and discharge side of radiator, kPa (in. H ₂ O)	0.125 (0.5)	

* Enclosure reduces ambient temperature capability by 5°C (9°F).

Operation Requirements

Air Requirements	46-State Engine	California SCAOMD
radiator-cooled cooling air, m ³ /min. (scfm) †	96.3 (34.00)	
Combustion air, m ³ /min. (cfm)	4.5 (1.59)	3.7 (1.32)
Heat rejected to ambient air:		
Engine, kW (Btu/min.)	10.5 (60.0)	
Alternator, kW (Btu/min.)	7.6 (42.5)	
Max. air intake restriction, kPa (in. Hg)	5.2 (1.54)	4.2 (1.24)

† Air density = 1.20 kg/m³ (0.075 lbm/ft³)

Fuel Consumption	46-State Engine	California SCAOMD
Diesel, Lph (gph) at % load	14.0 (3.7)	
100%	11.7 (3.1)	
75%	8.1 (2.1)	
50%	4.9 (1.3)	
Diesel, Lph (gph) at % load	Prime Rating	
100%	13.2 (3.5)	
75%	10.6 (2.8)	
50%	7.6 (2.0)	
25%	4.9 (1.3)	
Fuel Consumption	California SCAOMD Engine	Standby Rating
Diesel, Lph (gph) at % load	12.3 (3.2)	
100%	9.4 (2.6)	
75%	6.7 (1.8)	
50%	4.2 (1.1)	
Diesel, Lph (gph) at % load	Prime Rating	
100%	11.1 (2.9)	
75%	8.6 (2.3)	
50%	6.2 (1.6)	
25%	3.8 (1.0)	

Controllers



AP4402 Controller

- Provides advanced control, system monitoring, and system diagnostics for optimum performance and compatibility.
- Digital display and menu control provide easy local data access
 - Measurements are selectable in metric or English units
 - Remote communication thru a PC via network or serial configuration
 - Controller supports Modbus™ protocol
 - Integrated hybrid voltage regulator with ±0.5% regulation
 - Built-in alternator thermal overload protection
 - NFPA 110 Level 1 capability
- Refer to GS-101 for additional controller features and accessories.



(Available with the 46-State generator set only.)

- Decision-Maker 560 Controller provides advanced control, system monitoring, and system diagnostics with remote monitoring capabilities.
- Digital display and menu control provide easy local data access
 - Measurements are selectable in metric or English units
 - Remote communication thru a PC via network or modem configuration
 - Controller supports Modbus™ protocol
 - Integrated voltage regulator with ±0.25% regulation
 - Built-in alternator thermal overload protection
 - NFPA 110 Level 1 capability
- Refer to GS-101 for additional controller features and accessories.

Modbus™ is a registered trademark of Siemens Electric.

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