

Chairman

Tom Bailer

Commissioners

David Reggiani

John Greenwood

Tom McGann

Scott Pegau

John Baenen

Allen Roemhildt

City Planner

Samantha Greenwood

Assistant Planner

Leif Stavig

PLANNING COMMISSION REGULAR MEETING

MAY 13, 2014 AT 7:00 PM

LIBRARY MEETING ROOM

AGENDA

1. CALL TO ORDER

2. ROLL CALL

Chairman Tom Bailer, Commissioners David Reggiani, John Greenwood, Tom McGann, Scott Pegau, John Baenen, Allen Roemhildt

3. APPROVAL OF REGULAR AGENDA (voice vote)

4. APPROVAL OF CONSENT CALENDAR (voice vote)

a. Minutes of 4-8-14 Regular Meeting Page 2-6

5. DISCLOSURES OF CONFLICTS OF INTEREST

6. CORRESPONDENCE

a. Public Notice from US Army Corps of Engineers..... Page 7-11

b. Public Notice from the State of Alaska..... Page 12-13

7. COMMUNICATIONS BY AND PETITIONS FROM VISITORS

a. Audience comments regarding agenda items (3 minutes per speaker)

8. PLANNER'S REPORT Page 14

9. NEW/MISCELLANEOUS BUSINESS

a. Preliminary Plat Approval for Tina Hammer Page 15-17

b. Final Plat Approval for Tina Hammer Page 18

c. CTC Telecommunication Tower Conditional Use Permit

i. Staff memo and attachments Page 19-36

ii. CTC application Page 37-112

1. Attachment APage 46-87

2. Attachment B.....Page 88-92

3. Attachment C.....Page 93-94

4. Structural Design ReportPage 95-105

5. Attachment DPage 106-110

6. Attachment E.....Page 111-112

10. PENDING CALENDAR

a. May 2014 Calendar..... Page 113

b. June 2014 Calendar..... Page 114

11. AUDIENCE PARTICIPATION

12. COMMISSION COMMENTS

13. ADJOURNMENT

**PLANNING COMMISSION REGULAR MEETING
APRIL 8, 2014 AT 6:30 PM
LIBRARY MEETING ROOM
MINUTES**

1. CALL TO ORDER

Chairman **Tom Bailer** called the Planning Commission Regular Meeting to order at 6:30 PM on April 8, 2014 in the Library Meeting Room.

2. ROLL CALL

Present for roll call were Chairman **Tom Bailer** and Commissioners **David Reggiani, John Greenwood, Tom McGann, Scott Pegau, John Baenen, and Allen Roemhildt.**

Also present were City Planner, **Samantha Greenwood**, and Assistant Planner, **Leif Stavig.**

There was 15 people in the audience.

3. APPROVAL OF AGENDA

M/Reggiani S/Pegau to approve the Agenda.

Upon voice vote, motion **passed** 7-0.

Yea: **Bailer, Greenwood, McGann, Pegau, Baenen, Roemhildt, Reggiani**

Nay: None

Absent: None

4. APPROVAL OF CONSENT CALENDAR

M/Reggiani S/Greenwood to approve the Consent Calendar.

Upon voice vote, motion **passed** 7-0.

Yea: **Bailer, Greenwood, McGann, Pegau, Baenen, Roemhildt, Reggiani**

Nay: None

Absent: None

5. DISCLOSURES OF CONFLICTS OF INTEREST

None.

6. CORRESPONDENCE

- a. Public Notice from Corps of Engineers

No comments.

7. COMMUNICATIONS BY AND PETITIONS FROM VISITORS

- a. Guest Speakers

- i. **Danielle Verna** (Copper River Watershed Project) – Snow Management

Verna said that the Watershed Project was working on a snow analysis project this year. They have contracted with DOWL Engineering in Anchorage to do analysis of snow management practices in town. During winter, the pollutants can accumulate in snow piles once they are plowed off the streets. In the springtime, the pollutants are washed directly into receiving water bodies or into Cordova's stormwater system. Their goal is to reduce pollutant loads. DOWL was here for two days in March; had long meetings with the City and DOT. After the meetings they went on ride-alongs to look at snow management. After the ride-alongs DOWL and the Watershed Project had an appreciation for the limited space for snow storage, which is something that should be considered by the commission. DOWL is coming back for another site visit during a period of rapid melt. They will produce a snow management and assessing guide. In the meantime, staff from the Watershed Project will be doing sampling at six areas in Figure 2 (In packet). The idea is to sample the water before and after the best management practices. Funding by the Exxon Valdez Oil Spill Trustee Council is in two parts. Depending on results of the first year of funding there may be additional funding. They suggest that the commission considers snow storage before selling City lots.

Pegau asked if they looked at snow storage off of Breakwater Avenue in the City parking lot. Verna said that they did not.

Roemhildt asked when the testing would be done. Verna said throughout the spring melt; twice a week.

b. Audience comments regarding agenda items

Brent Davis, ex-Harbor Commission member, fisherman, Harbor user, encouraged Commission to follow the recommendation from the Harbor Commission to not make available for sale any of the lots on the North Fill. Wait until additional areas are filled.

Mary Anne Bishop wanted to express her support for retaining as public the three City-owned lots in the North Fill boat ramp area, which includes taking off the available list the impound lot. Most of the Harbor lands have been sold off. What little public lands remain need to stay public to serve both the recreational as well as the commercial fishers. This commission is here to serve the public good. The best use for these lots is to keep them off the for sale list and keep them as public for the Harbor.

Alexis Cooper, representing Cordova District Fisherman United, wanted to say thank you to the clarifications made last month to the term "Not Available." She's here to support the Harbor Commission's recommended use. She's here to represent 323 dues-paying, permit-holding members who support use of that space to promote additional use that will alleviate congestion at the South Fill. She had 30-40 responses in support of the Harbormaster's plan for use. She encourages looking into other alternatives as looked in to last meeting: possible fill for North Fill is a great idea.

Mike Mickelson thinks it's important to retain status of the lots. He figures he puts \$40,000 into the local economy. The less places that are available around town to store this sort of equipment, the more people are going to store their stuff in Whittier or Anchorage, which takes money out of the economy.

Lauren Padawer echoes what others have said. She said that there is diminishing area available to sell and being able to develop infrastructure that is in line with the economic base of the community is a valid thing to consider.

Rosemary McGuire also echoes what everyone has said. The North Fill is important to her as a fisherman and community member. There's so little waterfront land available that we should prioritize it for marine-related activities.

Karen Swartzbart is in favor that the Harbor Commission and Harbor staff have identified the area as a critical area to improve upon serving not just the commercial fleet, but everybody. The area by Baja Taco is very congested and she would like to see the North Fill area improved upon.

8. PLANNER'S REPORT

S. Greenwood mentioned that City is going to work on cleaning up the stuff that is in the Right of Way across from the shipyard boat haul-out entrance. She introduced **Rich Rogers**, the new Public Works Director.

Pegau asked what the tideland permit was. **S. Greenwood** said Camtu's Wild Seafoods will be at the City Council Special Meeting on Thursday. Commission reviewed their Site Plan for their addition to put in a fish-processing area. In City Code, if you are going to use the tidelands you have to get a permit which goes to City Council. They are going to put an outfall line like Trident and Copper River Seafoods. They've gone through the process of getting a permit with DEC, DNR for an easement, and Corps permit.

Pegau asked what reviewing AML lease for mandatory lease increase was. **S. Greenwood** said that per 5.22 in the Code, whenever a lease is signed, every two years we are supposed to be reviewing the lease rate. We determine lease rate off of assessed value so we will be reviewing it.

Pegau said that he was happy about the plan to move forward with the addressing project.

McGann asked what the situation was with Harborside Pizza. **S. Greenwood** said that they will also be at the Council's Thursday meeting. They were deferred at the last meeting because **Randy Robertson** wasn't there.

9. UNFINISHED BUSINESS

a. Safe Routes to School Update

Reggiani said on Page 41 he was still confused if there was still enough room for two-way traffic on Third Street. After some discussion with Rogers, he said there appears to be about 22 feet total for both lanes.

Pegau wanted to confirm that the roadway on Page 32 was as surveyed. **S. Greenwood** said that the outline was of what was paved.

b. 2014 Land Disposal Maps

M/McGann S/Pegau to approve Resolution 14-03 a resolution of the Planning and Zoning Commission of the City of Cordova, Alaska, recommending the 2014 Land Disposal Maps to the City Council of the City of Cordova, Alaska.

Bailer said that he leans towards leaving the land for the Harbor. It does generate some money for the Harbor. He's been looking at it for 10-12 years and he can't remember anyone ever saying that they were going to put a boat shop in with welders and fiberglassers. If it happens in the future sometime then we can look at it.

McGann said that he supports the resolution. He thinks there should be discussion on the definition of the "Port of Cordova" as used in the Harbormaster's resolution. His reading of City Code eliminates any of the area, including the boat ramp, from the Port of Cordova. Definition should be changed. **Tony Schinella**, Harbormaster, said that it is City property and the Harbor is part of the City. Maybe it would give a little jurisdiction to the Harbormaster.

Reggiani said he thought there was confusion about the resolution. He likes the idea of putting a condition on the lots discussed at the previous meeting (Lot 3, Block 5; Lot 3A, Block 8) as Available, but available

for specific marine-based business. There were lots that everyone in the Commission agreed to leave to the Harbor; those were the four biggest lots out of the six which are adjacent to the tidelands. There was no discussion on Lot 1, Block 6; Lot 2, Block 6; Lot 4, Block 8; and Lot 5, Block 8. He still supports making the two lots (that were voted on at last meeting) available to a marine-based business. He doesn't support the resolution for all of the maps because he doesn't agree with the North Fill recommendation.

Pegau said that after the last meeting he spent time looking at other harbors of communities of Cordova's size. We are way below what most communities have. We have two wash pads, whereas Valdez has 10. Homer has four times the trailer storage area of what the South Fill used to be. We don't have the space available for normal Harbor usage associated with ramps at either ramps.

Baenen said that he couldn't support the resolution. He thinks there's a better use for that lot besides boat trailer storage. We should be pro-business. Lot 3A, Block 8 is mostly a road. If you were able to reorganize the other two lots, you could still use all the same space without having that whole lot be a road.

McGann agrees that the City should not be in the boat trailer storage business, but he realizes this plan is just being developed and if they (Harbor) come up with a long-range plan for doing something other than storing trailers he's all for it. We are going to revisit this again next year, and we will see.

Roemhildt said that we don't have the thousands of sport vessels coming through Cordova a year. The storage of trailers, where they can still find storage in town while they are gone for the duration of the year, is not the City's responsibility.

Schinella said we keep talking about businessmen; the fishing community is the businessmen. If we don't provide them a service, they're going to go somewhere else.

Greenwood said he was in favor of the motion. He wants to give the Harbor another chance to develop the lots and educate the fishermen more to direct more traffic there. The City provides services for the citizens not necessarily to make money. Until we have more land available, he doesn't want to get rid of it.

Reggiani said that they are all in agreement that we need to support our local fisheries. How do we best do that? Do we provide trailer parking? Or do we provide business opportunities that can help them in a different way? If we don't have buildable land for businesses to come in and start up then nothing will develop until we make new land.

Bailer said that there are off-site businesses that provide services. Cordova Outboard is located down there. The whole town benefits from the Harbor being there. It is in tough shape and it needs maintenance; if we can utilize these properties to bring money into that, he supports it.

Baenen said that if businesses don't need to be in North Fill then neither does boat storage. If the lots had leases there wouldn't be enough money from the trailer storage to pay the leases.

Greenwood said that there are no new businesses that are coming into town. There are currently two fishing related businesses for sale that have not been sold, there's been a hydraulic shop that did not sell.

Upon voice vote, main motion passed 4-3.

Yea: **Bailer, Greenwood, McGann, Pegau**

Nay: **Baenen, Roemhildt, Reggiani**

Absent: None

10. PENDING CALENDAR

S. Greenwood said she would be out of town 14th- 18th of next week. She will be back to work on the Friday.

11. AUDIENCE PARTICIPATION

Cooper wanted to say thank you.

12. COMMISSION COMMENTS

Pegau said that somewhere along the line we're going to have to address the Harbor as a whole. We need to work with the Harbor Commission to make sure that there is sufficient City property available for them to operate the Harbor in the way that they expect it. We need to take a hard look at where we are for long-term Harbor plan.

Baenen said one thing he noticed in discussion was that everyone who talked was in favor of getting more property filled. We should put that as a priority to move forward, get grants, whatever we need to do because it is going to take time.

Greenwood said that more land is a priority. He wants to comment to the Harbormaster and Commission members to make sure that we get some good advertising or education out to utilize that property to the maximum.

Roemhildt said if the fishermen absolutely need more land, we'll find a way to get it to them.

McGann thanked staff for the electronic packet.

13. ADJOURNMENT

M/Greenwood S/McGann to adjourn the Regular Meeting at 7:34 PM; with no objection, the meeting was adjourned.

Approved:

Tom Bailer, Chairman

Leif Stavig, Assistant Planner



US Army Corps
of Engineers
Alaska District

Special Public Notice

Regulatory Division (1145)
CEPOA-RD
Post Office Box 6898
JBER, Alaska 99506-0898

PUBLIC NOTICE DATE:	April 18, 2014
EXPIRATION DATE:	June 05, 2014
REFERENCE NUMBER:	SPN-2014-0162
WATERWAY:	Statewide

PUBLIC NOTICE

CLEAN WATER ACT INTERPRETIVE RULE FOR 404(f)(1)(A)

On 21 April 2014, the USEPA and the Corps of Engineers (Corps) are publishing a Notice of Availability and Public Comment to announce the availability of an interpretive rule regarding the applicability of the exemption from permitting provided under section 404(f)(1)(A) of the Clean Water Act (CWA) for discharges of dredged and/or fill material associated with certain agricultural conservation practices based on the Natural Resources Conservation Service (NRCS) conservation practice standards that are designed and implemented to protect and enhance water quality. The interpretive rule was effective on April 03, 2014.

Under the CWA, section 404 regulates the discharges of dredged and/or fill material into waters of the U.S. and section 404(f)(1) includes a list of activities that are exempt from regulation under section 404. Section 404(f)(1)(A) provides an exemption for discharges of dredged and/or fill material from "normal farming, silviculture, and ranching activities, such as plowing, seeding, cultivating, minor drainage, harvesting for the production of food, fiber, and forest products, or upland soil and water conservation practices." The interpretive rule clarifies that certain NRCS conservation practices that are designed and implemented to protect and enhance water quality are included under these "normal farming, silviculture, and ranching activities."

The USEPA, the Corps, and NRCS have also entered into a Memorandum of Understanding to guide their future coordination on the exemption. The interpretive rule, Memorandum of Understanding, as well as a list of NRCS practices that meet the exemption,

are available via the Internet on the USEPA websites:

<http://water.epa.gov/lawsregs/guidance/wetlands/agriculture.cfm> and
<http://www2.epa.gov/uswaters>; as well as on the Corps website under Latest News:
<http://www.usace.army.mil/Missions/CivilWorks/RegulatoryProgramandPermits.aspx>.

National Issues Concerning the Interpretive Rule: Similar public notices are being published concurrently by other Corps division or district offices. The Federal Register notice provides public opportunity to become familiar with the interpretive rule and understand what has become effective as of April 03, 2014. The agencies recognize the importance and value of receiving public input on the implementation of this interpretive rule; input which may inform future revisions to the list of activities included under the interpretive rule. The agencies welcome comments in response to the Notice of Availability within 45 days from date of publication in the Federal Register.

DATES: Submit comments on or before June 05, 2014.

ADDRESSES: Submit your comments, identified by Docket ID No. EPA-HQ-OW-2013-0820 by one of the following methods:

- *Federal eRulemaking Portal:* <http://www.regulations.gov>. Follow the instructions for submitting comments.
- *E-mail:* ow-docket@epa.gov. Include EPA-HQ-OW-2013-0820 in the subject line of the message.
- *Mail:* Send the original and three copies of your comments to: Water Docket, Environmental Protection Agency, Mail Code 2822T, 1200 Pennsylvania Avenue, NW, Washington, DC 20460, Attention: Docket ID No. EPA-HQ-OW-2013-0820.

Hand Delivery/Courier: Deliver your comments to EPA Docket Center, EPA West, Room 3334, 1301 Constitution Avenue, NW, Washington, DC 20460, Attention Docket ID No. EPA-HQ-OW-2013-0820. Such deliveries are accepted only during the Docket's normal hours of operation, which are 8:30 a.m. to 4:30 p.m., Monday through Friday, excluding legal holidays. Special arrangements should be made for deliveries of boxed information. The telephone number for the Public Reading Room is 202-566-1744 and the telephone number for the Water Docket is 202-566-2426.

FOR FURTHER INFORMATION CONTACT: Ms. Stacey M. Jensen, Regulatory Community of Practice (CECW-CO-R), U.S. Army Corps of Engineers, 441 G Street, NW, Washington, DC 20314; telephone number 202-761-5856; e-mail address: USACE_CWA_RULE@usace.army.mil; and include the EPA Docket ID No. EPA-HQ-OW-2013-0820 in the subject line of the message.



US Army Corps
of Engineers
Alaska District

Special Public Notice

Regulatory Division (1145)
CEPOA-RD
Post Office Box 6898
JBER, Alaska 99506-0898

PUBLIC NOTICE DATE: April 18, 2014

EXPIRATION DATE: July 21, 2014

REFERENCE NUMBER: SPN-2014-0161

WATERWAY: Statewide

PUBLIC NOTICE

CLEAN WATER ACT PROPOSED RULE FOR DEFINITION OF WATERS OF THE U.S.

On 21 April 2014, the USEPA and the Corps of Engineers (Corps) are publishing for public comment a proposed rule defining the scope of waters protected under the Clean Water Act (CWA), in light of the U.S. Supreme Court cases in *U.S. v. Riverside Bayview, Solid Waste Agency of Northern Cook County v. U.S. Army Corps of Engineers (SWANCC)*, and *Rapanos v. United States (Rapanos)*. The proposed rule was developed to enhance protection for the nation's public health and aquatic resources, and increase CWA program predictability and consistency by increasing clarity as to the scope of "waters of the United States" protected under the Act.

Developing a final rule to provide the intended level of certainty and predictability, and minimizing the number of case-specific determinations, will require significant public involvement and engagement. Such involvement and engagement will allow the agencies to make categorical determinations of jurisdiction, in a manner that is consistent with the scientific body of information before the agencies – particularly on the category of waters known as "other waters."

The agencies propose to define "waters of the United States" in section (a) of the proposed rule for all sections of the CWA to mean: traditional navigable waters; interstate waters, including interstate wetlands; the territorial seas; impoundments of traditional navigable waters, interstate waters, including interstate wetlands, the territorial seas, and tributaries, as defined, of such waters; tributaries, as defined, of traditional navigable waters, interstate waters, or the territorial seas; and adjacent waters, including adjacent wetlands. Waters in these categories would be jurisdictional "waters of the United States" by rule – no additional

analysis would be required. The agencies emphasize that the categorical finding of jurisdiction for tributaries and adjacent waters was not based on the mere connection of a water body to downstream waters, but rather a determination that the nexus, alone or in combination with similarly situated waters in the region, is significant based on data, science, the CWA, and case law.

In addition, the agencies propose that "other waters" (those not fitting in any of the above categories) could be determined to be "waters of the United States" through a case-specific showing that, either alone or in combination with similarly situated "other waters" in the region, they have a "significant nexus" to a traditional navigable water, interstate water, or the territorial seas. The proposed rule also offers a definition of significant nexus and explains how similarly situated "other waters" in the region should be identified.

The agencies propose to exclude specified waters from the definition of "waters of the United States" in section (b) of the proposed rule. The agencies propose no change to the exclusion for waste treatment systems designed consistent with the requirements of the CWA, no change to the exclusion for prior converted cropland, and no change to the regulatory status of water transfers. The agencies propose, for the first time, to exclude by regulation certain waters and features over which the agencies have generally not asserted CWA jurisdiction. Codifying these longstanding practices supports the agencies' goals of providing greater clarity, certainty, and predictability for the regulated public. Waters and features that are determined to be excluded under section (b) of the proposed rule will not be "recaptured" as jurisdictional waters under any of the categories in the proposed rule under section (a).

The agencies' decision on how best to address jurisdiction over "other waters" in the final rule will be informed by the final version of the EPA's Office of Research and Development synthesis of published peer-reviewed scientific literature discussing the nature of connectivity and effects of streams and wetlands on downstream waters (U.S. Environmental Protection Agency, *Connectivity of Streams and Wetlands to Downstream Waters: A Review and Synthesis of the Scientific Evidence*, (Washington, D.C.: U.S. Environmental Protection Agency, 2013)) ("Report") and other available scientific information.

The goal of the agencies is to ensure the regulatory definition is consistent with the CWA, as interpreted by the Supreme Court, and as supported by science, and to provide maximum clarity to the public, as the agencies work to fulfill the CWA's objectives and policy to protect water quality, public health, and the environment.

National Issues Concerning the Proposed Rule: Similar public notices are being published concurrently by other Corps division or district offices. The Federal Register notice is the public's opportunity to provide comment on the proposed rule. For more information on the proposed rule, please visit:
<http://www.usace.army.mil/Missions/CivilWorks/RegulatoryProgramandPermits/NationalNoticeandProgramInitiatives.aspx>.

DATES: Submit comments on or before July 21, 2014.

ADDRESSES: Submit your comments, identified by Docket ID No. EPA-HQ-OW-2011-0880 by one of the following methods:

- **Federal eRulemaking Portal:** <http://www.regulations.gov>. Follow the instructions for submitting comments.
- **E-mail:** ow-docket@epa.gov. Include EPA-HQ-OW-2011-0880 in the subject line of the message.
- **Mail:** Send the original and three copies of your comments to: Water Docket, Environmental Protection Agency, Mail Code 2822T, 1200 Pennsylvania Avenue, NW, Washington, DC 20460, Attention: Docket ID No. EPA-HQ-OW-2011-0880.
- **Hand Delivery/Courier:** Deliver your comments to EPA Docket Center, EPA West, Room 3334, 1301 Constitution Avenue, NW, Washington, DC 20460, Attention Docket ID No. EPA-HQ-OW-2011-0880. Such deliveries are accepted only during the Docket's normal hours of operation, which are 8:30 a.m. to 4:30 p.m., Monday through Friday, excluding legal holidays. Special arrangements should be made for deliveries of boxed information. The telephone number for the Water Docket is 202-566-2426.

FOR FURTHER INFORMATION CONTACT: Ms. Donna Downing, Office of Water (4502-T), Environmental Protection Agency, 1200 Pennsylvania Avenue, NW, Washington, DC 20460; telephone number 202-566-2428; e-mail address: CWAwaters@epa.gov. Ms. Stacey M. Jensen, Regulatory Community of Practice (CECW-CO-R), U.S. Army Corps of Engineers, 441 G Street, NW, Washington, DC 20314; telephone number 202-761-5856; email address: USACE_CWA_Rule@usace.army.mil; and include the EPA Docket ID No. EPA-HQ-OW-2011-0880 in the subject line of the message.



THE STATE
of **ALASKA**
GOVERNOR SEAN PARNELL

Department of Transportation
and Public Facilities

STATEWIDE AVIATION
Northern Region Aviation Leasing

2301 Peger Road
Fairbanks, Alaska 99709-5399
Main: 907-451-2216
Fax: 907-451-2253

RECEIVED
MAY 05 2014
City of Cordova

April 30, 2014

Re: Cordova Airport
Lease ADA-72217
Public Notice

DISTRIBUTION

Enclosed is a Public Notice regarding a leasehold interest disposal of State land.
Public Notice is required by the Alaska Constitution.

We are sending you this copy for your information only; no action is required on your part.
However, you are welcome to post this notice in the public view.

If you have any questions, please call me at (907) 451-5201.

Sincerely,

A handwritten signature in cursive script, appearing to read "Diana Osborne".
Diana M. Osborne
Airport Leasing Specialist

jkb

Enclosure: Public Notice

cc: Robert Mattson, Jr., Airport Manager

Distribution:

Chugach Alaska Corp., 3800 Centerpoint Dr., Ste. 601, Anchorage, AK 99503-5826
City of Cordova, PO Box 1210, Cordova, AK 99574
Eyak Corporation, PO Box 340, Cordova, AK 99574

"Keep Alaska Moving through service and infrastructure."

PROPOSAL TO LEASE STATE AIRPORT LAND: The Alaska Department of Transportation & Public Facilities proposes to lease Lot 3 and 4, Block 100 and Item 28, consisting of approximately 47,664.70 square feet (ADA-72217 successive lease to ADA-02561), at Cordova Airport for 15 years, to expire July 1, 2029. Applicant: Alaska Airlines. Authorized uses: aviation – Operation of an airline terminal building; open storage of air cargo; parking of airline ground and support vehicles; well and waterline. Annual rent: \$5,862.76.

This is an application filed under AS 02.15.090(c), which allows the Department to grant the proposed lease without competition. Written comments must be received by 4:30 p.m., June 2, 2014, after which the Department will determine whether or not to execute the lease. The Department's decision will be sent only to persons who submit written comment or objection at the address and by the date and time specified in this notice, and include their return address. Information is available from Diana M. Osborne, Aviation Leasing, 2301 Peger Road, Fairbanks, AK 99709-5399, (907) 451-5201. Anyone needing hearing impaired accommodation may call TDD (907) 451-2363.

The Department reserves the right to correct technical defects, term, or purposes and may reject any or all comments.

BY: Penelope Adler
Penelope Adler, SRWA, CM
Chief, Northern Region Aviation Leasing

DATE: April 30, 2014

PLEASE LEAVE POSTED AND FULLY VISIBLE THROUGH JUNE 2, 2014

Note: A person who removes, obscures or causes to be removed or obscured a notice posted in a public place before the removal date stated in this notice is subject to disqualification from receiving any lease, permit, or concession related to this notice.

Planner's Report

To: Planning Commission
From: Planning Staff
Date: 5/13/14
Re: Recent Activities and Updates

- Five building permits issued since last Planning Commission meeting.
- Modular housing was placed on Ocean Beauty lots currently finishing water and sewer
- Worked with Clerk's office and Tax assessor to get city leased property assessed on regular basis so that the lease rate can be adjusted according to CMC
- Culvert on Thomas will be completed by end of the week.
- Camtu Wild Seafood was granted a tideland permit by City council and the outfall is complete
- Harborside pizza performance deed of trust was extended for the additional 2 years as provided in the performance deed of trust.
- Working with Public works on street cutting permit with public works
- Infra-red machine asphalt patching machine has left the factory!!
- Worked with Ski club and State of Alaska on operation plan as required by the contract between the City and State
- Ad for removal of personal property across from shipyard will be in Fridays paper, scanner, web page, and radio

Memorandum

To: Planning Commission
From: Planning Staff
Date: 5/6/14
Re: Preliminary Plat Approval for Tina Hammer

PART I – GENERAL INFORMATION

Requested Actions: Preliminary Plat Approval
Applicant: Tina Hammer
Address: Lot on Crest Circle
Parcel Number: 02-099-220
Zoning: Unrestricted

PART II – SUGGESTED FINDINGS

1. The proposed plat conforms to the Comprehensive Plan Policies and serves the public use, health, and safety.
2. There are no known physical conditions present which may be hazardous to the future inhabitants of these tracts.

PART III – STAFF RECOMMENDATION

If no changes are needed, staff recommend the Planning Commission approve the Preliminary Plat.

PART IV – SUGGESTED MOTION

“I move to approve the Preliminary Plat request for Replat, Portion of Lot 3 Alaska State Land Survey No. 81-28, Plat 81-28, Creating Lots 3A and 3B Alaska State Land Survey No. 81-28.”



Memorandum

To: Planning Commission
From: Planning Staff
Date: 5/6/14
Re: Final Plat Approval for Tina Hammer

PART I – GENERAL INFORMATION

Requested Actions: Final Plat Approval
Applicant: Tina Hammer
Address: Lot on Crest Circle
Parcel Number: 02-099-220
Zoning: Unrestricted

PART II – STAFF RECOMMENDATION

Staff recommend the Planning Commission approve the Final Plat.

PART III – SUGGESTED MOTION

“I move to approve the Final Plat request for Replat, Portion of Lot 3 Alaska State Land Survey No. 81-28, Plat 81-28, Creating Lots 3A and 3B Alaska State Land Survey No. 81-28.”

Memorandum

To: Planning Commission
From: Planning Staff
Date: 5/6/14
Re: CTC Telecommunication Tower Conditional Use Permit

PART I – GENERAL INFORMATION

Requested Actions: Telecommunication Tower – Conditional Use Permit
Applicant: Cordova Telephone Cooperative, Inc.
Address: Ski Hill Area – Tripod Hill
Parcel Number: 02-061-900
Zoning: Parks and Open Space District

PART II – HISTORY

1972 – City entered lease agreement with the State for what is generally called the Ski Hill Area and includes Tripod Hill.

1993 – CTC entered into a sublease agreement with the City for a 40' telecommunication tower (Attached; page 24-26). State filed a consent to sublease (Attached; page 27-31).

1999 – Parks and Open Space District was created.

? – At some point prior to 2008, CTC constructed a new 50' tower and moved the site of the tower slightly closer to the ski lift.

Early 2010 – Copper Valley Wireless submitted a Conditional Use Permit for a 50' telecommunication tower located on Tripod Hill. In a Record of Decision from the State (Attached; page 32-36), the State decided to limit the total number of towers on Tripod Hill to three (the City of Cordova's tower, CTC's, and the new Copper Valley Wireless tower).

Copper Valley Wireless was granted a Conditional Use Permit for the tower by the Planning Commission under several conditions, one of which was that any further co-location would require a Conditional Use Permit.

July 2010 – Conditional Use requirements for telecommunication towers was added to the Cordova Municipal Code.

September 2011 – Copper Valley Wireless was granted a Conditional Use Permit for a 90' cell tower in the Eyak Acres Subdivision.

March 2013 – Marine Exchange of Alaska was granted a Conditional Use Permit for a 30' tower.

?, 2014 – CTC commenced work on Tripod Hill.

4/24/14 – The City received a letter from the State stating, “It has come to the attention of the State of Alaska that Cordova Telephone Cooperative (CTC) may be in the process of either making changes to their existing tower and/or building a new tower which is located within the state lease identified as AOL 57396. The State of Alaska is hereby notifying the City of Cordova of this possible activity and expressing concerns about the lack of communication and notification being taken by CTC.”

Per the lease agreement, CTC is required to get prior approval from the City to “make alterations, attach fixtures, and erect additions, structures or signs.” The City was unaware of CTC’s activities on the Ski Hill.

4/30/14 – The City issued CTC a Stop Work Order as their activity was in violation of multiple provisions of the CMC. The violations that were referenced in the Stop Work Order were 18.76.070 (CTC failed to obtain a building permit) and 18.04.030 (CTC failed to comply with the conditional use regulations for the zoning district).

5/1/14 – CTC submitted an application for a Building Permit and a Conditional Use Permit. Because the work had already commenced on the project, the City asked CTC to provide an update on the project for the Planning Commission. Response from CTC:

The tower foundation is partially complete, we have anchors set and some concrete poured for the footings which consists of a two foot wide 12” sauna tube on the ground in four adjacent spots representing each leg of the tower. There is no tower construction started. The building foundation has been welded in place for the extension, no further work is being done on that.

PART III – BACKGROUND

The Conditional Use Permit being requested by CTC is for an extension on their existing building and for the construction of a new 50’ telecommunication tower which will replace the existing 50’ telecommunication tower. Because the existing building appears to be the original building that was approved and built at the beginning of CTC’s lease with the City, CTC has been permitted to continue maintenance on the *existing building only*, and not on the proposed extension of the building. The existing tower is *not* the original 40’ radio tower approved when the lease first began, therefor the existing tower is not a permitted nonconforming use.

PART IV – REVIEW OF APPLICABLE CRITERIA & SUGGESTED FINDINGS

The applicable CMC regulations for this Conditional Use Permit are the following sections:

Chapter 18.17 PARKS AND OPEN SPACE DISTRICT

18.17.040 Conditional uses and structures.

The Planning Commission may grant a conditional use permit for communications and electric power transmission poles and towers.

Chapter 18.60 CONDITIONAL USE PERMIT

18.60.015 Conditional use for a telecommunication tower.

The Planning Commission may grant a conditional use permit for a telecommunication tower in any district subject to all of the conditions listed in this section.

The following Conditional Use Standards have been met:

1. The requested Conditional Use Permit is reasonably necessary for the public's health, safety, and general welfare.

CTC has a large presence in Cordova and this permit will allow CTC to improve their communication services.

2. The requested conditional use will not permanently or substantially injure the lawful use of neighboring properties.

This site has been designated a communication site. The tower is located well within the leased land area and is replacing an older tower of the same size.

3. The requested conditional use is a conditional use expressly permitted by the zoning ordinance in which it is requested.

The Parks and Open Space district specifically identifies “communications and electric power transmission poles and towers” as a conditional use.

PART V – STAFF RECOMMENDATION

Staff recommend that the Planning Commission approve the Conditional Use Permit for CTC with the special conditions below.

PART VI – CONSIDERATIONS FOR SPECIAL CONDITIONS

While the lease agreement between the City of Cordova and CTC has been breached by CTC, both the State and the City intend to update the lease concurrently with this Conditional Use Permit so that CTC can continue operating and working on Tripod Hill. While the State has expressed concern about the unpermitted and unauthorized projects CTC has done in the past, they have acknowledged that even though they are the underlying land owner, the lease gives the management rights to the City. Staff asks that the Planning Commission evaluate the Conditional Use Permit taking note of the Special Condition requiring the lease to be updated.

In the ‘Conditional use for a telecommunication tower’ (18.60.015) section of code, B. 12. requires that “A certificate from an engineer licensed in Alaska that the telecommunication tower, and all antennas and other equipment located on it, are built and installed to approved specifications and

will contain only equipment meeting Federal Communications Commission requirements.” Because this requirement can only be met after project completion, we have added this requirement under Special Conditions.

Planning Staff contacted the State Fire Marshall about the project and have determined that a Fire and Life Safety Permit is not needed for this project.

When the Planning Commission approved a Conditional Use Permit for Copper Valley Wireless in 2010 on Tripod Hill, the Commission gave them a Special Condition requiring “Any further co-location will require a Conditional Use Permit.” Staff added that to the Special Conditions for this application as well.

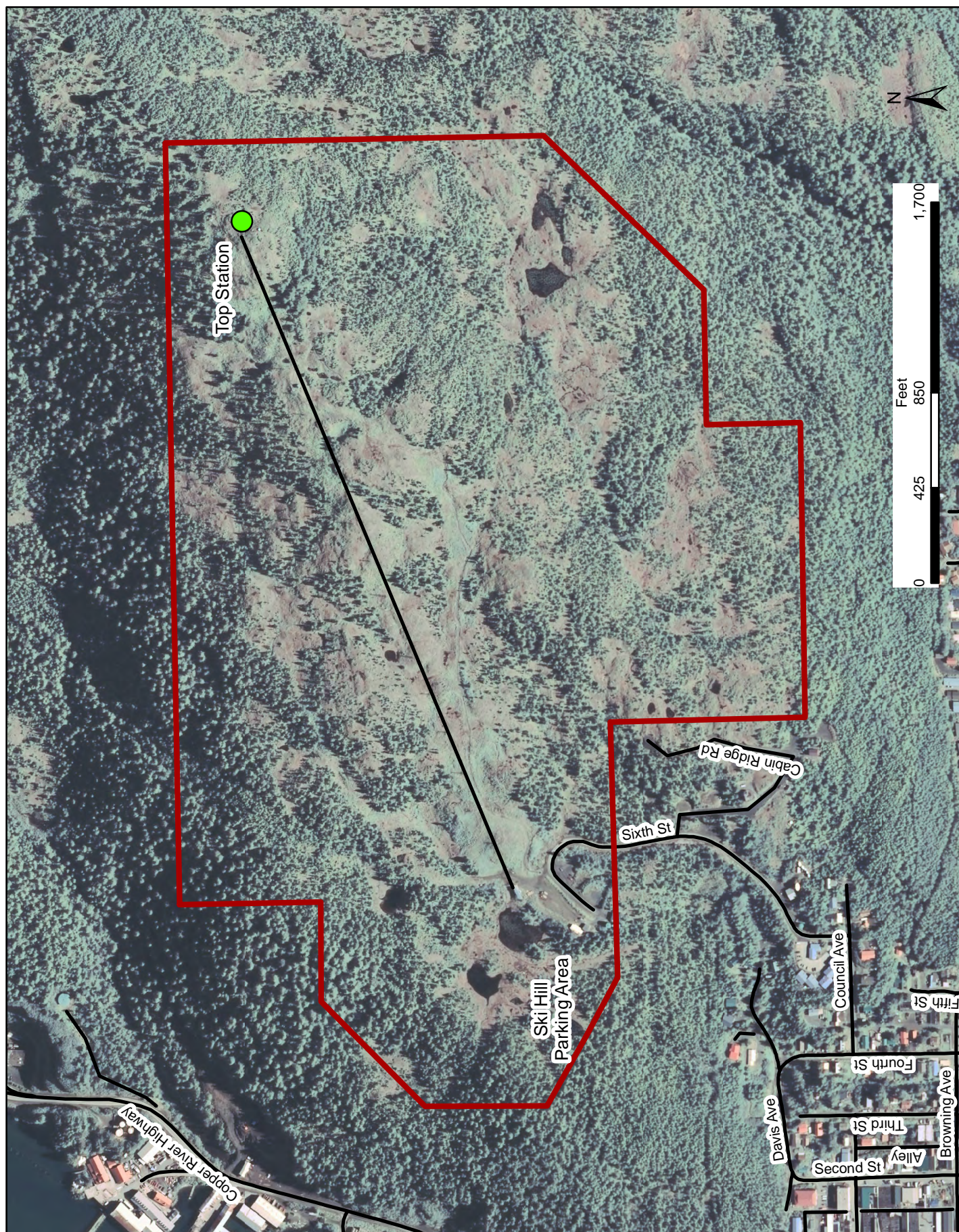
PART VII– SPECIAL CONDITIONS

1. Upon 30 days after project completion, CTC will provide the City of Cordova a certificate from an engineer licensed in Alaska that the telecommunication tower, and all antennas and other equipment located on it, are built and installed to approved specifications and will contain only equipment meeting Federal Communications Commission requirements.
2. Any further co-location will require a Conditional Use Permit.
3. Within 60 days of the granting of this Conditional Use Permit, CTC, the State, and the City will renegotiate and update lease terms and conditions to meet current uses of the lease area.

PART VIII – SUGGESTED MOTION

“I move to approve the request by Cordova Telephone Cooperative, Inc for a Conditional Use Permit to construct a telecommunication tower and building extension on Township 15 South, Range 3 West, Copper River Meridian with the special conditions and as described in their application.”

Location of Conditional Use Application Request



LEASE

between

City of Cordova

and

Cordova Telephone Cooperative, Inc.

For and in consideration of the mutual covenants contained herein and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, this Lease, made and entered into this 19th day of May, 1993, by and between the City of Cordova, whose address is 602 Railroad Avenue, Post Office Box 1210, Cordova, Alaska 99574, and for its successors and assigns, hereinafter called the "City," and Cordova Telephone Cooperative, Inc., whose address is Post Office Box 459, Cordova, Alaska 99574, and for its successors and assigns, hereinafter called "CTC,"

WITNESSETH:

The parties hereto covenant and agree as follows:

1. For the term beginning May, 1993, and running contemporaneously with that certain lease and any extensions thereof between the State of Alaska and the City, the City hereby leases to CTC for the maintenance and operation of an IMTS radio telephone facility:

Township 15 South, Range 3 West, Copper River Meridian

A 50' x 50' parcel of land located within U.S. Survey 1765 (which is within a 55-year land lease between the City of Cordova and the State of Alaska) for the construction and operation of an equipment building and radio tower.

(a) Together with a right-of-way for ingress to and egress from the premises; a right-of-way or rights-of-way for establishing and maintaining a pole line or pole lines for extending electric power, and telecommunications facilities to the premises; and a right-of-way for subsurface power and communication to the premises; all of said rights-of-way to be over the said lands and adjoining lands of the City and, unless herein described by metes and bounds, to be by routes mutually determined to be the most convenient to the City and CTC;

(b) and the right of grading, conditioning, and installing drainage facilities; seeding the soil of the premises; and the removal of all obstructions from the premises which may constitute a hindrance to the establishment and maintenance of the IMTS radio telephone facility;

(c) and the right, upon prior approval by the City, which approval shall not be unreasonably withheld, to make alterations, attach fixtures, and erect additions, structures, or signs in or upon the premises hereby leased, which alterations, fixtures, additions, structures, or signs so placed in or upon or attached to the said premises shall be and remain the property of CTC and may be removed upon the date of expiration or termination of this lease, or within ninety (90) days thereafter, by or on behalf of CTC, its grantees, or purchasers of said alterations, fixtures, additions, structures, or signs.

2. CTC shall pay the sum of \$1 a year for the term of the lease. The payment is due on the first day of June each year; provided, however, in the event the City of Cordova must in the future pay annual rental pursuant to its lease from the State of Alaska, CTC's annual rental shall be adjusted accordingly on a pro rata basis.

3. There shall be coordination between the City and CTC regarding installation of facilities at the site. If any interference occurs, immediate action will be taken by the party causing the interference to eliminate the problem.

4. CTC shall surrender possession of the premises upon the date of expiration or termination of this lease. Upon expiration or termination of this lease, CTC, at its option, shall, within ninety (90) days after such expiration or termination, or within such additional time as may be mutually agreed upon, restore the premises under this lease, changes to the premises in accordance with paragraphs 1(a), 1(b), and 1(c), above, ordinary wear and tear, damage by natural elements and by circumstances over which CTC has no control excepted.

5. CTC agrees to defend, indemnify, and hold harmless the City from all claims that may arise as a result of negligent acts of CTC or its employees on the leased property in the construction, operation, or maintenance of the IMTS radio telephone facility.

6. CTC shall pay the City its pro rata share of electric bills for power used by CTC at the IMTS facility.

7. All notices sent to the parties under the lease shall be addressed as follows:

To the Lessor: City of Cordova
Box 1210
Cordova, Alaska 99574

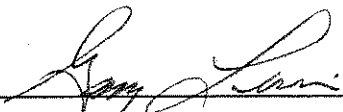
To the Lessee: Cordova Telephone Cooperative, Inc.
Box 459
Cordova, Alaska 99574

8. CTC may not assign nor in any way transfer its rights or obligations under this lease without the consent of the City.

IN WITNESS WHEREOF, the parties hereto have hereunto subscribed their names as of the date first above written.

CITY OF CORDOVA

CORDOVA TELEPHONE COOPERATIVE, INC.

By: 

Title: City Manager

Date: 5-19-93

By: 

Title: General Manager

Date: 5/19/93

LEASE BETWEEN CITY OF CORDOVA AND
CORDOVA TELEPHONE COOPERATIVE, INC.

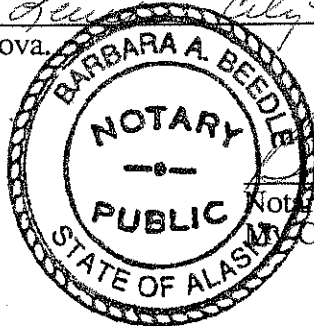
Page 2

STATE OF ALASKA

THIRD JUDICIAL DISTRICT

)
) ss.
)

The foregoing instrument was acknowledged before me this 19 day of
May, 1993, by Darryl Lee, City Manager of the City of Cordova, on
behalf of the City of Cordova.



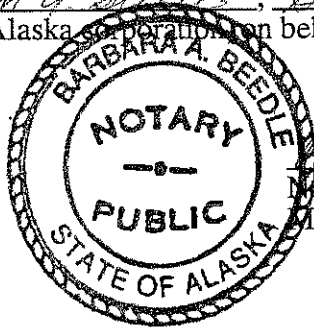
Barbara A. Beedle
Notary Public in and for the State of Alaska
My Commission Expires: July 28, 1996

STATE OF ALASKA

THIRD JUDICIAL DISTRICT

)
) ss.
)

The foregoing instrument was acknowledged before me this 19 day of
May, 1993, by Kath A. Stecker, Gen Manager of Cordova Telephone
Cooperative, Inc., an Alaska corporation, on behalf of the corporation.



Barbara A. Beedle
Notary Public in and for the State of Alaska
My Commission Expires: July 28, 1996

STATE OF ALASKA DEPARTMENT OF NATURAL RESOURCES
DIVISION OF LAND

☐ Northern Region
3700 Airport Way
Fairbanks, AK 99709
(907) 451-2705

☐ Southcentral Region
PO Box 107005
Anchorage, AK 99510-7005
(907) 762-2284

☐ Contract Administration
PO Box 107005
Anchorage, AK 99510-7005
(907) 762-2243

☐ Southeast Region
400 Willoughby, #400
Juneau, AK 99801
(907) 465-3400

CONSENT TO SUBLEASE

Non-refundable filing fee: \$100.00;
\$200.00 if sublessor is a corporation

92-6000138
Federal Tax I.D. or SSN # (optional)

57396
ADL #

For value received, I (We) City of Cordova (sublessor),
whose mailing address is: Post Office Box 1210, Cordova, Alaska 99574

lessee(s) under the lease designated as ADL No. 57396 and covering the following described property:

Section _____, Township 15 S, Range 3 W, Copper River Meridian
do hereby sublease, for good and valuable consideration and subject to all rents, covenants, and conditions in the above
lease the following described parcel: a 50' x 50' parcel of land for the construction and
operation of an equipment building and radio tower together with a right-of-way
for ingress and egress and for extending electric power and telecommunication
facilities to the premises as shown in the attached map.

Section _____, Township _____, Range _____, _____ Meridian
to Cordova Telephone Cooperative, Inc. (sublessee)
whose mailing address is: Post Office Box 459, Cordova, Alaska 99574

and sublessee's successors and assigns, effective on May 19, 1993, and expires
on expiration of ADL 57396, 19XXXXXX.

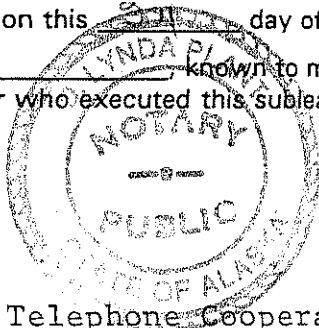
The sublessor herein agrees that subleasing the above described parcel does not relieve the sublessor of any obligation
to the state under the original lease.

[Signature]
City Manager - City of Cordova
Sublessor(S)

CONSENT TO SUBLEASE
ADL 57396
Page 2

STATE OF ALASKA)
) s.s.
 3 Judicial District)

THIS IS TO CERTIFY that on this 21 day of August, 1993, before me appeared Darry Lewis known to me (or proven to me on the basis of satisfactory evidence) to be the person named as sublessor who executed this sublease and acknowledged voluntarily signing the same.



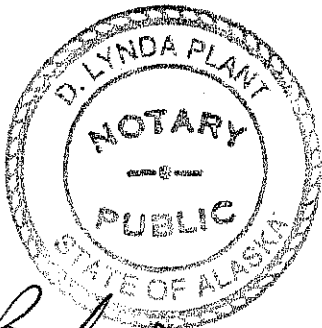
D. Lynda Plant
Notary Public in and for the state of Alaska
My Commission Expires 9-3-94

The Sublessee(s), Cordova Telephone Cooperative, Inc.
herein agree(s) to be bound by the terms and conditions of the original lease, and represent(s) and warrant(s) that this sublease does not violate or conflict with any term or condition of the original lease.

Ruth A. Steele
Gen.Mgr., Cordova Telephone Coop.
Sublessee(S)

STATE OF ALASKA)
) s.s.
 3rd Judicial District)

THIS IS TO CERTIFY that on this 24 day of August, 1993, before me appeared Ruth A. Steele known to me (or proven to me on the basis of satisfactory evidence) to be the person named as sublessee who executed this sublease and acknowledged voluntarily signing the same.



D. Lynda Plant
Notary Public in and for the State of Alaska
My Commission Expires 9-3-94

APPROVED:

Robert A. Baker
Division of Land Authorized Representative

10-15-93
Date

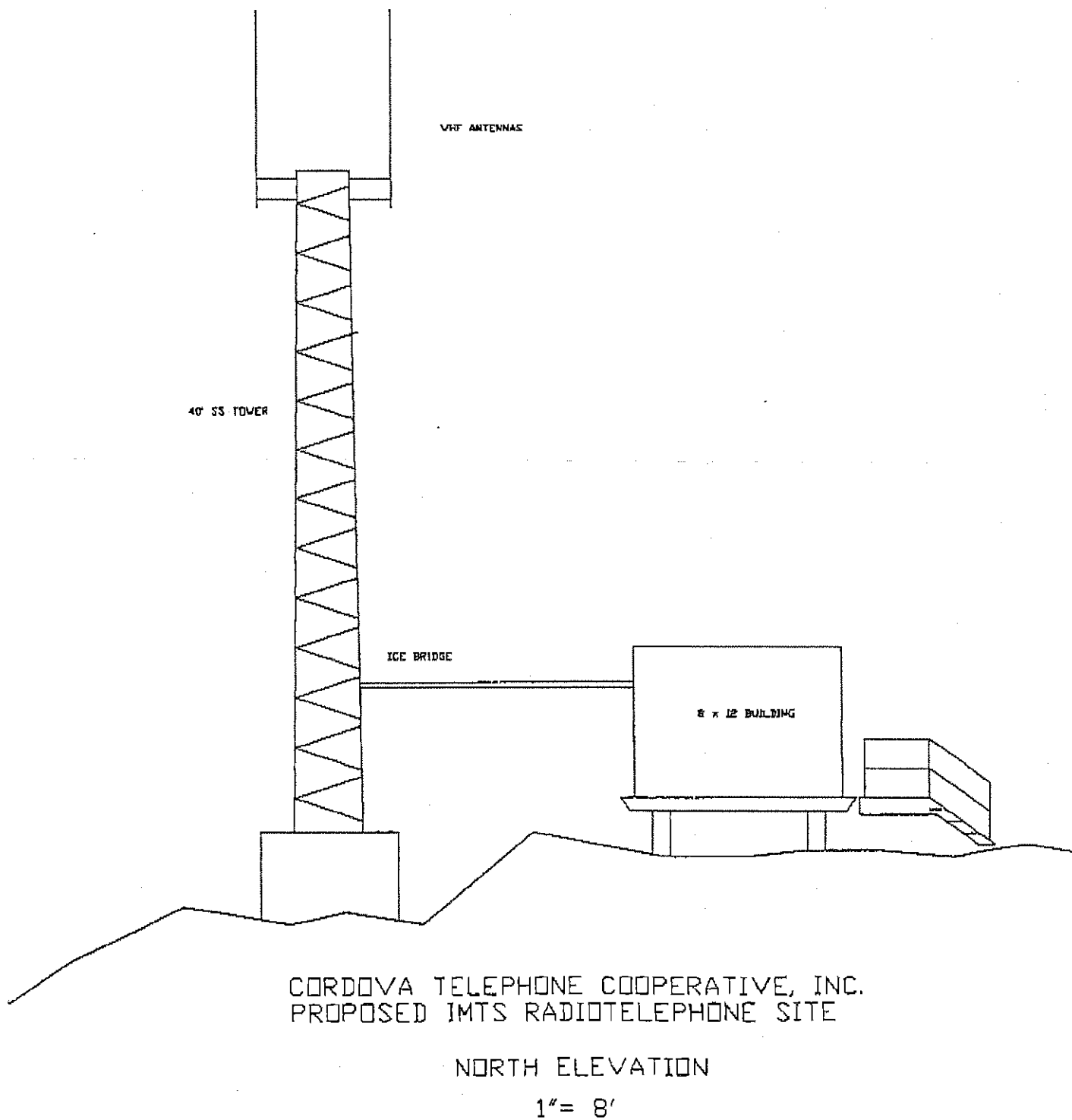
PLEASE ENSURE THAT YOU HAVE PROVIDED ALL OF THE FOLLOWING:

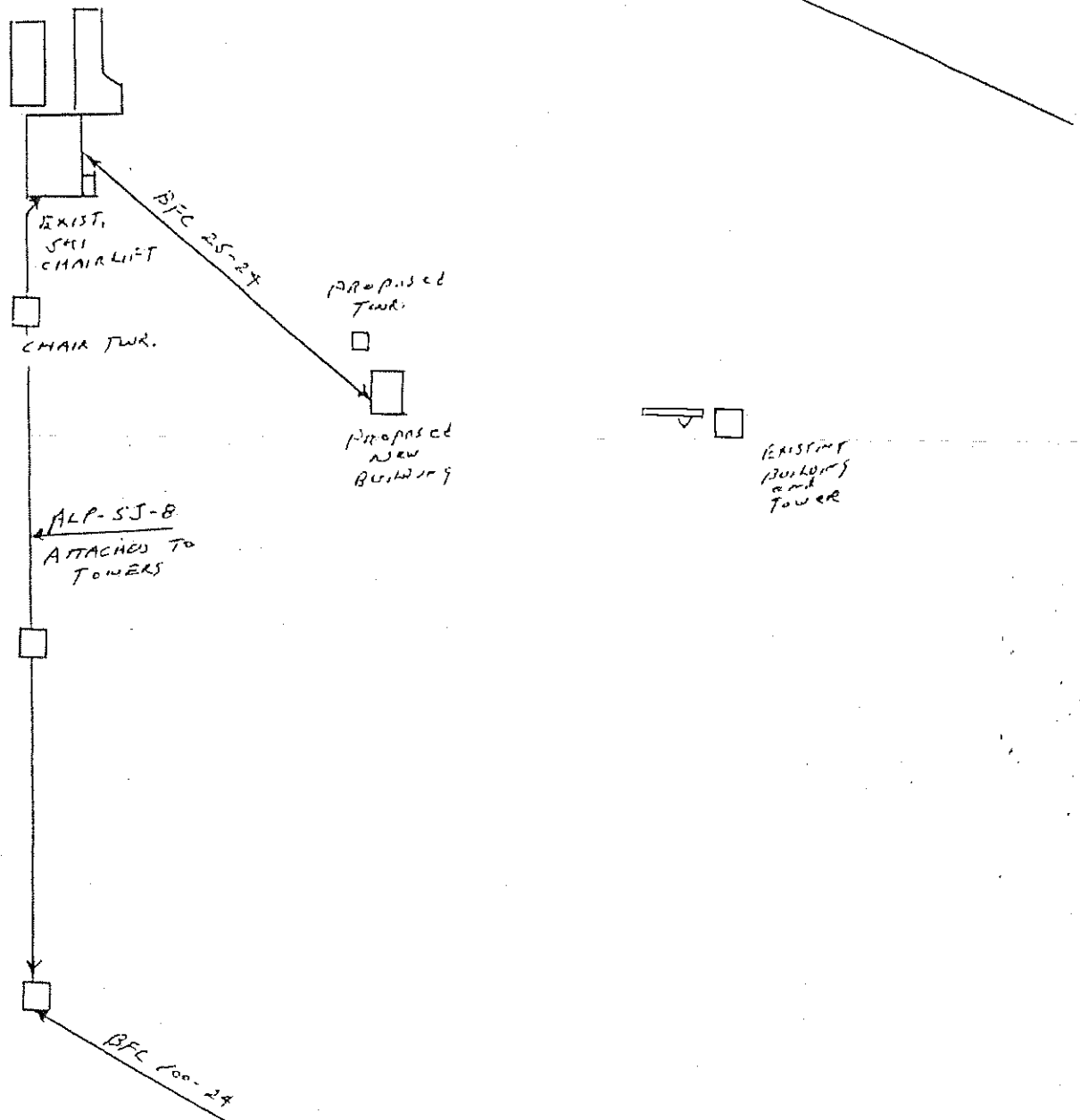
A. Filing fee; B. Three forms with original signatures and notarization on each; C. A current address for both sublessor and sublessee; D. Corporate signatures on a sublease require signature by a corporate officer on behalf of a corporation bearing an acknowledgment that the sublessee is an officer of, and has been authorized by the corporation to execute the sublease. The sublease must bear the corporate seal. Also submitted with the sublease should be a copy of the Articles of Incorporation and Corporate Resolution.



PRELIMINARY SITE PLAN
IMTS RADIOTELEPHONE SITE

29 of 114





STATE OF ALASKA DEPARTMENT OF NATURAL RESOURCES
DIVISION OF MINING, LAND AND WATER

☐ Northern Region
3700 Airport Way
Fairbanks, AK 99709
(907) 451-2705

☒ Southcentral Region
550 W 7th Avenue, Ste 900C
Anchorage, AK 99501-3577
(907) 269-8552

☐ Southeast Region
400 Willoughby
P.O. Box 111020
Juneau, AK 99801
(907) 465-3400

Record of Decision

City of Cordova-Mt. Eyak Ski Resort

ADL 57396

AS 38.05.810(a)

The State of Alaska, Department of Natural Resources (DNR), Division of Mining, Land and Water (ML&W), Southcentral Regional Office (SCRO), has made a decision to designate Tripod Hill located within the boundaries of Land Lease ADL 57396 as a communication site. Tripod Hill has been actively used for the placement of communication facilities since 1993 and the infrastructure and interest in the site continues to grow with competing interest. As a result SCRO has found it necessary to officially identify Tripod Hill as a communication site in order to manage the growth taking place.

This Record of Decision also constitutes an update to the land usage within the Public and Charitable land lease issued under AS 38.05.810(a) to the City of Cordova in 1972. This land lease, identified as ADL 57396, was issued for the development of the Mt. Eyak Ski Resort. The original lease review did not address or publically identify use of the lease site for communication purposes.

Overview:

SCRO was recently approached by Copper Valley Wireless (CVW) requesting a sub-lease approval with the City of Cordova to place another communication tower on Tripod Hill, near Cordova, Alaska. This location is within the lease boundaries issued to the City of Cordova for the Mt. Eyak Ski Resort. Although provisions within this lease allow the City to enter into sublease agreements, the City must first obtain approval in writing from SCRO.

CVW is proposing to place a 50 foot communication tower and a 12 x 14 foot support building on Tripod Hill. This proposed project in addition to the existing infrastructure currently present became a land management concern regarding the safety of recreating public using the Ski Resort area.

Tripod Hill is located approximately 60 feet east from the top of the ski lift servicing the resort and is physically separated by a small natural crevasse. Due to the extensive communication infrastructure presently on site, compounded by the CVW's request to add more, SCRO determined that Tripod Hill is being used in a manner that is beyond the scope of the original

lease. As a result, SCRO has made the decision to identify Tripod Hill as a communication site and provide the public the opportunity to comment on this Decision.

Historical Background:

A State of Alaska Public and Charitable land lease was issued to the City of Cordova in 1972 for a 200 acre ski resort. At some unknown date, the City of Cordova installed a 20 foot tower and equipment shed atop Tripod Hill. This 20 foot tower provides City wide service for EMS and police communications, public radio broadcasts, and the local taxi cab company. In 1993, Cordova Telephone entered into an approved sublease with the City of Cordova and installed a 40 foot tower and equipment shed at Tripod Hill to provide mobile radio communications to the community of Cordova.

In August of 2008, SCRO conducted site inspections of several leased sites within the Cordova area. At that time, it was discovered that the Mt Eyak Ski Resort was hosting multiple sub-leases located at the top and base of the ski lift, and further up the mountain outside the lease boundaries. SCRO is still working with the City to sort out all the details associated with these unauthorized sub-leases.

Of particular concern was the amount of equipment located near the top of the ski lift on Tripod Hill. The City of Cordova never informed SCRO that they installed the 20 foot communication tower on Tripod Hill or that the 40 foot tower authorized for Cordova Telephone had been replaced with a 50 foot tower and relocated slightly closer to the ski lift. While the amount of equipment was a surprise, it was determined that the current placement did not appear to be a hindrance to the activities of the ski resort.

Photo of current communication equipment on Tripod Hill near the top of the ski lift:



Record of Decision
ADL 57396
Comm site within the Ski Resort
Page 2 of 5

Legal Descriptions:

The state land where this communication site can be found is described as follows:

- Tripod Hill as depicted on USGS Quad: Cordova C-5
- The NW ¼ of the NW ¼ of Section 22 of Township 15 South, Range 3 West, Copper River Meridian
- Lat / Long: 60° 33' 12.726" N / 145° 43' 52.818" W
- Approximately 1 mile north northeast of Cordova, AK
- Municipality: Unorganized Borough
- Native Corporations/Federally Recognized Tribes: Chugach Alaska Corporation, Eyak Native Corporation
- Area Geographical Features: Mountainous
- Area Plan: Prince William Sound

Acreage:

The area of Tripod Hill currently being utilized as a communication site measures approximately 100 x 100 feet or about ¼ of an acre. If approval is granted for CVW to proceed with their proposed project an As-Built will be required to identify the area of Tripod Hill being utilized as a communication site and the location of all infrastructure in relation to the Ski Lift and established trails in the vicinity.

Administrative Records:

ADL 57396 constitutes the State of Alaska's administrative record for the leased parcel containing Tripod Hill.

Sub-lease Records involving Tripod Hill:

- ADL 57396-CVT constitutes the administrative record for the Copper Valley Telephone sub-lease. ADL
- 57396-CVW will constitute the administrative record for the proposed Copper Valley Wireless sub-lease.

DNR Area Plan:

Tripod Hill is subject to the Prince William Sound Area Plan, City of Cordova Management Unit, Subunit 27A-City of Cordova and Eyak Lake. This land's primary classification is Public Recreation with an addendum that the area will be managed for multiple uses. This means that Tripod Hill, as long as the ski resort and general public recreation is not hindered in any manner, can support other uses such as a communication site.

Agency Review and Public Notice:

A 30 day Interagency Review and a 30 day Public Notice (AS 38.05.945) for this Record of Decision will be run simultaneously, starting on **July 2, 2010**. The Public Notice will be run in both the **Anchorage Daily News** and the **Cordova Times** newspapers. Notices will be mailed to adjacent property owners, permit/lease holders and other interested parties located within a one

half mile radius of the site on **July 2, 2010** and circulated to the following agencies and interested parties:

- Department of Fish and Game
- Division of Habitat
- Department of Environmental Conservation
- Department of Transportation and Public Facilities
- DNR Division of Forestry
- DNR Division of Parks and Outdoor Recreation
- Office of History and Archaeology
- City of Cordova
- Copper Valley Wireless
- Copper Valley Telephone
- FAA
- Chugach Native Corporation
- Eyak Native Corporation
- Mount Eyak Ski Area

Comment(s):

This Decision is subject to both public and agency comments. **Written comments on this proposal must be submitted no later than 5:00 PM on July 30, 2010 to be considered.**

To submit comments, please choose one of the following methods:

Postal: Department of Natural Resources
Southcentral Region Office
ATTN: Jennifer Murrell
550 West 7th Avenue Suite 900C
Anchorage, AK 99501-3577

E-mail: jennifer.murrell@alaska.gov

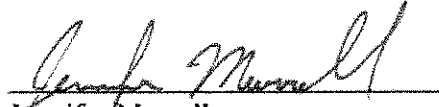
Fax: 907-269-8913

If submitted comments result in significant changes to this Record of Decision, an Amended Record of Decision will be issued. Questions about this site, or on how to comment, can be directed to Jennifer Murrell directly at 907-269-8111.

Signature page follows:

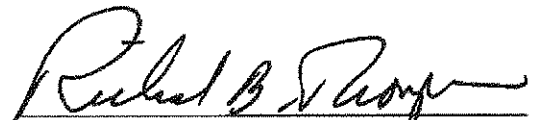
Recommendation:

It is SCRO's recommendation that the Tripod Hill be designated as a communication site to support no more than three self supporting tower (i.e. no guide wires) provided a safe distance is maintained from the ski lift and does not pose a safety hazard to the recreational uses established and taking place within the ski resort lease. Due to safety concerns for the recreational activity taking place, SCRO is limiting the total number of towers to be located on Tripod Hill to three with minimal supporting infrastructure. If there is future interest in placing more communication equipment on Tripod Hill a collocation agreement will be required on one of the existing towers.


Jennifer Murrell
Natural Resource Specialist II

6/22/10
Date

I find that the proposed action is in the State's best interest and is hereby approved.


Richard B. Thompson, Regional Manager
Southcentral Region/DML&W

6/22/2010
Date





Dear Planners,

The Cordova Telephone Cooperative respectfully ask you to approve our request to add a small extension to our existing shelter (80 sf) and to replace an existing tower with a new higher capacity 50' tower on Tri-Pod Hill. CTC has owned and operated a telecommunications site at this location for over 20 years and has outgrown the existing infrastructure.

You will find that our request meets all of the criteria required of us to proceed with this project. All questions have been answered and those answers are contained within the voluminous packet that represents our official application. CTC has provided stamped engineered drawings for these additions and all aspects of the project have been extremely scrutinized.

We look forward to receiving your approval so we can continue to improve and expand communication in and around Cordova for the public convenience, necessity and safety.

Thank you,

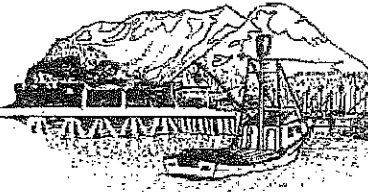
A handwritten signature in blue ink that reads "Paul Kelly".

Paul Kelly,
General Manager/ CEO
Cordova Telephone/ Cordova Wireless
907-424-2345 x 111



Everything's Faster on Fiber!

CITY OF CORDOVA



BUILDING PERMIT APPLICATION

City of Cordova, Alaska

INSTRUCTIONS	PERMIT TYPE	FEE
Print or type requested information. Incomplete applications will be returned to the applicant and will delay issuance of the permit. The Building Permit Application also serves as an application for a Zoning Compliance Certificate.	<input type="checkbox"/> Residential Building Permit	\$50
	<input type="checkbox"/> Multi-Family Building Permit	\$100
	<input checked="" type="checkbox"/> Commercial Building Permit	\$150
	<input type="checkbox"/> Industrial Building Permit	\$200

APPLICANT INFORMATION	
Name:	Cordova Telephone Cooperative, Inc.
Mailing Address:	PO Box 543
City/State/Zip:	Cordova, AK 99574
Phone Number:	907-424-2345
Email Address:	Paul@ctcak.coop

OWNER INFORMATION	
Name:	Same as above
Mailing Address:	
City/State/Zip:	
Phone Number:	
Email Address:	

*If different from applicant.

CONTRACTOR INFORMATION	
Contractor Name & License No.:	New Horizons Telecom, Inc. License # 19115
Contractor Name & License No.:	City of Cordova License # 1309
Contractor Name & License No.:	
Contractor Name & License No.:	

*List all contractors working on project. Contractors must have a Cordova Business License.

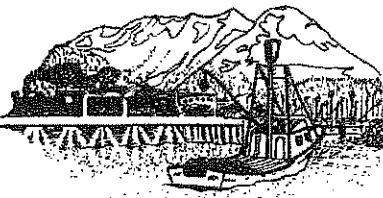
PROJECT INFORMATION	
Scope of Work:	Construct replacement telecom. tower & building extension.
Construction Start Date:	4/25/2014
Estimated Cost:	\$7.4 million

PROPERTY INFORMATION	
Address:	N/A
Legal Description:	Township 15 South, Range 3 West, Copper River Meridian
Tax Lot No.:	02-061-900
Zone District:	Parks and Open Space District

*Planning Department can fill out if unknown.

ADDITIONAL INFORMATION					
Describe Scope of Work in detail:		Please see narrative included with Conditional Use Permit application.			
Dimensions, height, and square footage of construction: Tower Specifications are detailed in Attachment A. Existing shelter dimensions: 9'H x, 9'2"L x and 24'3"W. 1220 sq. ft.					
Existing off-street parking spaces:		N/A			
Proposed off-street parking spaces:		N/A			
Required zoning setbacks:	Front:	N/A	Proposed setbacks:	Front:	N/A
	Rear:	N/A		Rear:	N/A
	Left:	N/A		Left:	N/A
	Right:	N/A		Right:	N/A
Required zoning height:		N/A		Proposed height: N/A	
OTHER QUESTIONS					
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Will you be installing a private septic system?			
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Are you developing a new driveway that exits onto a State Road?			
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Does property contain drainages, creeks, wetlands, or other water features?			
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Will you be using fill to develop the lot?			
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Is this Building Permit for a Mobile Home?			
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Is the property within a Flood Plain?			
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Is your property within the Eyak Lake Area Meriting Special Attention?			
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Do you intend to get a Sales Tax Exemption Card (\$150)?			
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Do you need to have a Site Plan Review (Zones WCP or WI)?			
*See Planning Staff for additional information if you don't understand any of these questions.					
ATTACHMENTS					
For new construction or substantial changes:			Residential building larger than a three-plex or any Commercial or Industrial building:		
<input checked="" type="checkbox"/> Detailed Plot Plan			<input type="checkbox"/> Fire and Life Safety Review		
<input checked="" type="checkbox"/> Front Elevation Drawing			Other:		
<input checked="" type="checkbox"/> Side Elevation Drawing			<input type="checkbox"/> _____		
<input type="checkbox"/> Recommended:			<input type="checkbox"/> _____		
<input type="checkbox"/> As-Built Survey			<input type="checkbox"/> _____		
<input type="checkbox"/> Photos			<input type="checkbox"/> _____		
<input type="checkbox"/> Additional Permits:			<input type="checkbox"/> _____		
<input type="checkbox"/> Variance Permit			<input type="checkbox"/> _____		
<input type="checkbox"/> Conditional Use Permit			<input type="checkbox"/> _____		
APPLICANT CERTIFICATION					
By the signature(s) attached hereto, I (we) certify that the information provided within this application and accompanying documentation is, to the best of my (our) knowledge, true and accurate. Furthermore, I (we) hereby authorize the City and its representatives to enter the property associated with this application for purposes of conducting necessary site inspections.					
Applicant Signature: <u>Paul Kelly</u>			Date: <u>4/30/2014</u>		
Print Name and Title: <u>Paul Kelly, General Manager/ CEO</u>					

CITY OF CORDOVA



CONDITIONAL USE PERMIT APPLICATION

City of Cordova, Alaska

INSTRUCTIONS	PERMIT TYPE	FEE
Print or type requested information. Incomplete applications will be returned to the applicant and will delay issuance of the permit. Attach this application to the Building Permit Application.	<input checked="" type="checkbox"/> Conditional Use Permit	\$200

STANDARDS FOR CONDITIONAL USE

The Planning Commission may only approve the conditional use if the Commission finds that ALL of the following standards are satisfied. Conditional uses are subject to strict review because of the potential they hold to harm neighboring properties.

Explain how the requested conditional use permit is reasonably necessary for the public's health, safety, and general welfare.

This is an existing site with existing structures installed in 1993 for communications of various types for public safety, convenience, necessity. Those served by these facilities include: Local Police, State Troopers, the US Coast Guard, interconnection facilities with competitors, the Airlines industry and local radio telephone service to remote areas.

Explain how the requested conditional use will not permanently or substantially injure the lawful use of neighboring properties.

All existing structures and their subsequent replacement/ improvements have and will be built to code and will not have any affect on any neighboring property.

Explain how the requested conditional use is a conditional use expressly permitted by the zoning ordinance in which it is requested.

Zoning ordinances and State ownership of this property both allow for maintenance, improvements and replacement of existing facilities.

Explain how the proposed conditional use will not have a permanent negative impact on pedestrian and vehicular traffic circulation and safety substantially greater than that anticipated from permitted development.

Nothing at this site has a permanent negative impact on pedestrian and vehicular traffic circulation and safety. Maintaining, replacing and improving existing facilities will not change this.

Explain how the proposed conditional use will not have a permanent negative impact on the demand for and availability of public services and facilities substantially greater than that anticipated from permitted development.

The proposed conditional use will not have a permanent negative impact on the demand for and availability of public services and facilities. Rather, the proposed conditional use will serve to enhance our ability to provide the public with telecommunications services.

OTHER REQUIREMENTS FOR CONDITIONAL USE

Any application approved by the planning commission shall be conditional upon the privilege granted being utilized within (12) months after the effective date of approval.


Site and Building Plan are required. The Site Plan needs to be drawn to scale, showing the location of all existing and proposed buildings or improvements, elevations of such buildings or alterations, and off-street parking areas.

Some conditional uses (telecommunication tower, coastal management areas, junkyard) are subject to additional conditions in Chapter 18.60 of the Cordova Municipal Code.

APPLICANT CERTIFICATION

By the signature(s) attached hereto, I (we) certify that the information provided within this application and accompanying documentation is, to the best of my (our) knowledge, true and accurate. Furthermore, I (we) hereby authorize the City and its representatives to enter the property associated with this application for purposes of conducting necessary site inspections.

Applicant Signature:



Date: 4/25/2014

Print Name and Title: Paul Kelly, General Manager/ CEO

Chapter 18.60 CONDITIONAL USE PERMITS

18.60.015 Conditional use for telecommunication tower.

- A. The planning commission may grant a conditional use permit for a telecommunication tower in any zoning district subject to the conditions in this section.
- B. The application for a conditional use permit for a telecommunication tower shall include the following information:
 - 1. A written narrative explaining why the proposed site has been chosen, why the telecommunication tower is necessary, why the requested height was chosen, and a full explanation regarding the telecommunication tower's ability to accommodate other providers; and

This site was chosen as a telecom site many years ago for its view shed and ability to transmit signal over a vast area. The height of the tower is restricted by the FAA and FCC and local codes, so is only 50' high. This tower will mostly be loaded with Cordova Telephone and Cordova Wireless telecommunications equipment but will accommodate the USCG, local police, Native Village of Eyak and the State Troopers with minimal antenna needs.

- 2. Specifications for the telecommunication tower and all antennas to be located on it, including a description of design characteristics and material;

Please see Attachment A

- 3. A site plan drawn to scale showing property boundaries, telecommunication tower location, telecommunication tower height, guy wires and anchors and existing structures and land uses on the site and on adjacent property;

Please see Attachment B

- 4. A map showing the locations of the applicant's existing telecommunication towers that serve customers in the city and of all telecommunication towers that the applicant proposes to construct to serve customers in the city;

Please see Attachment C

- 5. A report prepared by a person registered as a structural engineer in Alaska showing the capacity by type and number of the telecommunication tower and antennas, and that the telecommunication tower and antennas are designed to withstand winds in accordance with the latest revision of ASI/EIA/TIA/222 standards ("Structural standards for steel communications antenna towers and communications antenna supporting structures");

Please see Attached Structural Design Report prepared by Sabre Towers and Poles

- 6. Identification of the person or persons who own the telecommunication tower and the equipment that is to be located on it;

The telecommunications tower and equipment located on it belongs to Cordova Telephone Cooperative and Cordova Wireless Communications, LLC.

- 7. Written authorization for the application from the owner of the site;

This requirement has been met via phone call between the City of Cordova and the State of Alaska.

- 8. Evidence that the applicant has a valid FCC license for the use of the telecommunication tower;

See Attachment D

9. A line of sight analysis showing the potential visual and aesthetic impacts of the telecommunication tower on adjacent residential districts through the use of photo simulations of the telecommunication tower, including all antennas, structures, and equipment, using the vantage points and number of photo simulations requested by the planning department;

This tower is simply a replacement of an existing tower and will not have any significant visual impact beyond what exists on adjacent towers. This site is not adjacent to any residential districts.

10. A written agreement, on a form approved by the city attorney, to remove the telecommunication tower and restore the site to its original condition within one hundred eighty days after the telecommunication tower is substantially unused for a period of twelve consecutive months, and providing that if the telecommunication tower is not removed within this one hundred eighty-day period, the city may remove the telecommunication tower at the cost of the owner;

See Attachment E

11. A cell phone coverage map showing the applicant's proposed cell phone coverage within the city;

See Attachment C

12. A certificate from an engineer licensed in Alaska that the telecommunication tower, and all antennas and other equipment located on it, are built and installed to approved specifications and will contain only equipment meeting Federal Communications Commission requirements;

To be provided upon project completion

13. Any additional information required by the planning department during the application process. C.

The planning commission may approve an application under this section, with or without conditions, if the application meets the following criteria:

1. Location and Visual Impact. The proposed location of the telecommunication tower will minimize the visual impact on the surrounding area while allowing the telecommunication tower to function

in accordance with minimum standards imposed by the applicable telecommunications regulations and the applicant's technical design requirements. Telecommunication towers and attached antennas and equipment must be painted or coated in a color that blends with the surrounding environment. Muted colors, earth tones, and subdued hues, such as gray, shall be used. All associated structures such as equipment buildings, including the roofs, shall be painted with earth tone colors unless otherwise required under this code or other applicable law. Where necessary to make a telecommunication tower compatible with the historical, environmental or cultural character of its location, the planning commission may require that the telecommunication tower be disguised, hidden or screened, or integrated as an architectural feature of a structure, to reduce its visual impact.

There will be no additional view impact as opposed to existing. No residential property adjoins this site and earth tone colors will be used, specifically green.

2. Inability to Collocate. It is not feasible to locate the applicant's telecommunication antenna and other equipment on any existing structure or tower under the control of the applicant.

The Copper Valley tower that exists nearby is already loaded and our tower will be equally loaded, therefore no collocation ability exists. That said, we do facilitate the following parties: USGC, Native Village of Eyak, Public Safety, State Troopers and other small users.

3. Location in a Residential Zoning District. An applicant seeking to locate a telecommunication tower in a residential zoning district must show that the area cannot be adequately served by a telecommunication tower located in a nonresidential zoning district for valid technical reasons.

CTC's tower is not located in a residential district so this question does not apply.

4. Location on Public Property or Other Private Property. If the applicant proposes to acquire a site on private property for the telecommunication tower, the applicant must show that no available publicly owned site or available privately owned site occupied by a compatible use is suitable under applicable communications regulations and the applicant's technical design requirements.

The site exists on an existing lease via the City of Cordova, via the State of Alaska.

5. Design for Future Use. A new telecommunication tower shall be designed to allow collocation of telecommunication antennas equal in number to the applicant's present and reasonably foreseeable future requirements.

Our tower is designed for future additional use, hence the reason for the replacement of the old one which is over-capacitated at this time.

6. Safety Code Met. The telecommunication tower meets all applicable laws and code requirements, including without limitation health, nuisance, noise, fire, building and safety code requirements.

Please refer to the tower and building drawings provided. They will meet all building and safety codes.

7. Distance from Existing Telecommunication Towers. A telecommunications tower shall not be approved if it is located within one-half mile (two thousand six hundred forty feet) of an existing telecommunication tower, unless the applicant certifies that the existing telecommunication tower does not meet the applicant's structural specifications and technical design requirements, or that a collocation agreement could not be obtained.

This is a replacement of an existing tower. The fact that it is there should grandfather the existence of it at this site and in close proximity to other towers. Please understand, this communication tower is vital for public safety, convenience and necessity.

8. Zoning Requirements. With the exception of requirements for setback and height, which are established in this section, the telecommunication tower must comply with all applicable zoning laws and regulations, including, without limitation, all laws governing land development, visibility, fencing, screening, landscaping, parking, access, lot size, exterior illumination, and sign, storage.

As this was an existing site with an existing tower, it has always met and will continue to meet all zoning requirements. Please refer to the tower specifications provided in Attachment A.

9. Setback. In all zoning districts, a telecommunication tower must be located no less than a distance equal to the tower height from all lot lines.

The new tower will meet all set back requirements as those property lines define the 40 acre parcel granted to the city by the State and do not refer to the property lines of the 50' square the site is built on.

10. Signs. No signs may be located on a telecommunication tower except for identification signage.

No signs will be installed.

11. Lighting. No lighting may be located on a telecommunication tower except as reasonably required for safety purposes or as required by the Federal Communications Commission, Federal Aviation Administration or other government agency with jurisdiction.

No lighting is required by the FAA or desired by the owner.

12. Fencing. A fence with a minimum height of eight feet must be placed on the perimeter of the site of a telecommunications tower site to limit access by the public.

This is a new rule that came to light in 2010. The adjacent tower and facility is not fenced and for good reason. A fence becomes a hazard in deep snow conditions. A person could posthole through the snow and impale themselves on the fence. Further, the site is built on solid rock and a rock drill would have to be used to drill every hole. The terrain is extremely uneven and a fence would impede access to the owner as well as the public due the difficulty in opening the gate in feet of frozen snow. However, if planning and zoning requires us to build a fence, we'll build a fence.

12. Height. The height of a telecommunications tower may not exceed the maximum tower height specified in the conditional use permit or in this section.

The height of the tower is only 50' therefore falls under local zoning, FAA and FCC regulation for this location.

- D. No decision regulating the placement, construction or modification of a telecommunication tower may be made on the basis of environmental or health effects of radio frequency emission if the antennas and other equipment on the telecommunication tower comply with Federal Communications Commission regulations.

No. 1070.

ATTACHMENT A

Specifications for Tower and Antennas

- There will be 6 panel antennas,
- Four Omni antennas as we see the need at this time and
- One microwave 4' dish. This shoots a signal to Boswell bay allowing CTC to provide telephone and internet service to an otherwise unserved area.
- There will also be 6 Yagi antennas that are so old we have no specs for that will be moved over from the old tower to the new, those provide Basic Exchange Radio Telephone Service (BERTS) to customers on the islands across the bay.

5/6/2014

Unlicensed Microwave Antennas, 2.4/5.8 GHz, Parabolic | TESSCO 800 472 7373

Login | Register | Worksheet Find

Base Station Infrastructure > Antennas & Filter Products > Microwave Antennas > 2.4/5.8 GHz, Parabolic

2.4/5.8 GHz, Parabolic

Filter Results Less Detail

Page 1 of 2 Next >>

Go To Page >>

Manufacturer	Radio Waves	General Dynamics	Radio Waves	Radio Waves	Radio Waves	Radio Waves
Product Name	SP1-2/5NS	SSP2-2357	SP4-2/5	SP3-2.4	SPD4-2.4	G6-2.4NF
Product Description	2.4-2.5/5.7-5.8GHz 14/23dBi 1' Parabolic, N Female	2.3-2.5/5.725-5.85GHz 20.7/28.3dBi 2' Dish Antenna	2.4-2.5/5.7-5.8GHz 27/35dBi 4' Parabolic, N Female	2.4-2.5 GHz 24.3dBi 3' Parabolic Dish, N Female	2.4-2.7 GHz 27.5dBi 4' Parabolic Dish, N Female	2.4-2.5 GHz 30.8dBi 6' Grid Antenna, N Female
Item#	51781 1 Add <input type="checkbox"/> Compare	77770 1 Add <input type="checkbox"/> Compare	14343 1 Add <input type="checkbox"/> Compare ON SALE	51741 1 Add <input type="checkbox"/> Compare	51752 1 Add <input type="checkbox"/> Compare	51671 1 Add <input type="checkbox"/> Compare
Image						
UPC	729198517816	729198777708	729198143435	729198517410	729198517526	729198516710
GSA	Contract: GS-35F-0548P Schedule: 70 - Information Technology	n/a	Contract: GS-35F-0548P Schedule: 70 - Information Technology	Contract: GS-35F-0548P Schedule: 70 - Information Technology	Contract: GS-35F-0548P Schedule: 70 - Information Technology	Contract: GS-35F-0548P Schedule: 70 - Information Technology
Narrative	Lightweight and rugged Spread Spectrum/ISM band parabolic dual band antenna. Mount provides fine adjustment of azimuth and elevation. Radome is included.	Dual Band - Spread Spectrum / ISM solid parabolic antennas with plane polarization. Feeds are easily installed from rear of the antenna. All aluminum back structure for excellent strength/weight combination.	Lightweight and rugged Spread Spectrum/ISM band parabolic dual band antenna. Mount provides fine adjustment of azimuth and elevation.	Lightweight and rugged Spread Spectrum/ISM band parabolic antenna. Mount provides fine adjustment of azimuth and elevation.	Lightweight and rugged Spread Spectrum/ISM band parabolic antenna. Mount provides fine adjustment of azimuth and elevation. Dual polarized.	Rugged, lightweight grid antenna. Reduced windload. Adjustable elevation mount.
Specific Frequency (MHz)	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified
Diameter	1	2	4	3'	4'	6
RF Connector	N Female	N Female	N Female	N-Female	N-Female	N Female
Weight (lb)	15	45	60	35	60	80
Size (L x W x H)	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified
Maximum Power (Watts)	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified
Gain at High (dBi)	Not Specified	21.1/28.4	Not Specified	N/A	N/A	Not Specified
Gain at Mid (dBi)	14 / 23.3	20.7/28.3	27 / 34.6	24.3	27	30.3
Gain at Low (dBi)	Not Specified	20.3/28.2	Not Specified	N/A	N/A	Not Specified
Return Loss (dB)	14	14	14	N/A	N/A	14.0
XPD (dB)	17	23/20	17 / 25	30	30	25
Ship Dimensions (L x W x H)	16"x 16" x 9"	30" x 14" x 34"	59" x 18" x 60"	42" x 42" x 35"	55" x 55" x 40"	74" x 18" x 77"
Qty/ Uom	1 EACH	1 EACH	1 EACH	1 EACH	1 EACH	1 EACH

5/6/2014

TESSCO Image Zoom, click window to close.



Click window to close

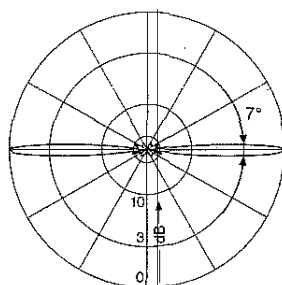
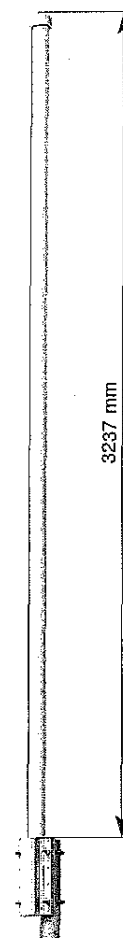
Omnidirectional Antenna **Vertical Polarization**

806-894
V

KATHREIN
Antennen · Electronic

VPol Omni 806-894 360° 11dBi

Type No.	738192
Frequency range	806 – 894 MHz
Polarization	Vertical
Gain	11 dBi
Impedance	50 Ω
VSWR	< 1.5
Intermodulation IM3	< -150 dBc (2 x 43 dBm carrier)
Max. power	500 W (at 50 °C ambient temperature)



Vertical Pattern

Mechanical specifications

Input	7-16 female
Connector position	Bottom
Weight	8.5 kg
Radome diameter	51 mm
Wind load	230 N (at 150 km/h)
Max. wind velocity	180 km/h
Packing size	3516 x 148 x 112 mm
Height	3237 mm

936.1375/h Subject to alteration.

ATTACHMENT A (answers B2)

Internet: www.kathrein.de

738192 Page 1 of 2

KATHREIN-Werke KG · Anton-Kathrein-Straße 1 – 3 · P.O. Box 10 04 44 · 83004 Rosenheim · Germany · Phone +49 8031 184-0 · Fax +49 8031 184-973

Accessories General Information

KATHREIN
Antennen · Electronic

Accessories (order separately)

Type No.	Description	Remarks	Weight approx.	Units per antenna
738 908	2 clamps	Mast: 94 – 125 mm diameter	2.8 kg	1
737 398	Side-mounting bracket	Mast: 40 – 105 mm diameter	6.4 kg	1

Mounting: The antenna can be attached laterally at the tip of a tubular mast of 50 – 94 mm diameter with two U-bolt brackets supplied with the antenna (connecting cable runs outside the mast).

Material: **Radiator:** Copper and brass. **Radome:** Fiberglass, colour: Grey.
Base: Weather-proof aluminum.
Mounting kit, screws and nuts: Stainless steel.

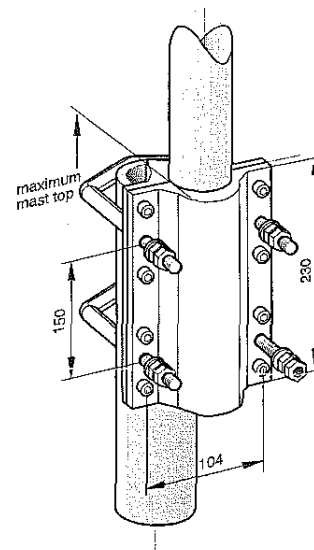
Solid, reliable construction: Omnidirectional antennas are often installed at exposed sites on the top of masts, so special attention has been paid to their mechanical construction.
The exceptionally stiff fiberglass tube with low tip deflection will withstand wind velocities of up to 180 km/h.

Anti-static protection: All metal parts of the antenna as well as the supplied clamp attachment are grounded. The inner conductor is capacitively coupled.

Lightning protection: The antenna is designed to withstand a lightning current of up to 150 kA (impulse: 10/350 μ s), according to IEC 62305 parts 1–4 and VDE 0855-300, and thereby fulfils the requirements of lightning protection class II. Grounding cross-section: 22 mm² copper.

Environmental conditions: Kathrein-cellular antennas are designed to operate under the environmental conditions as described in ETS 300 019-1-4 class 4.1 E.
The antennas exceed this standard with regard to the following items:
– Low temperature: –55 °C
– High temperature (dry): +60 °C

Environmental tests: Kathrein antennas have passed environmental tests as recommended in ETS 300 019-2-4. The homogenous design of Kathrein's antenna families use identical modules and materials. Extensive tests have been performed on typical samples and modules.



Please note:

As a result of more stringent legal regulations and judgements regarding product liability, we are obliged to point out certain risks that may arise when products are used under extraordinary operating conditions.

The mechanical design is based on the environmental conditions as stipulated in ETS 300 019-1-4 and thereby respects the static mechanical load imposed on an antenna by wind at maximum velocity. Extraordinary operating conditions, such as heavy icing or exceptional dynamic stress (e.g. strain caused by oscillating support structures), may result in the breakage of an antenna or even cause it to fall to the ground. These facts must be considered during the site planning process.

The installation team must be properly qualified and also be familiar with the relevant national safety regulations.

The details given in our data sheets have to be followed carefully when installing the antennas and accessories.

The limits for the coupling torque of RF-connectors, recommended by the connector manufacturers must be obeyed.

Any previous datasheet issues have now become invalid.

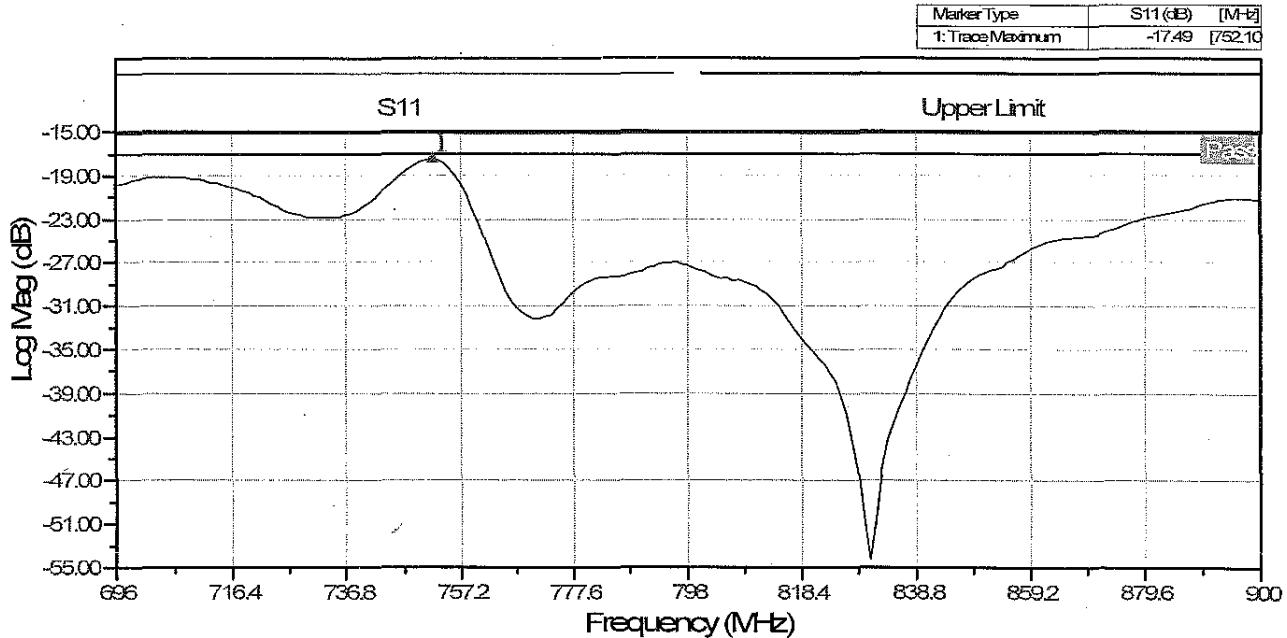


Subject to alteration.
936.1375/n

Small



Model Number 21639000	Test Date/Time 6/21/2013 08:33 AM
Serial Number 664602	Test Station SPC3
SO# 0133780	Tester Suada



PIM Test Details

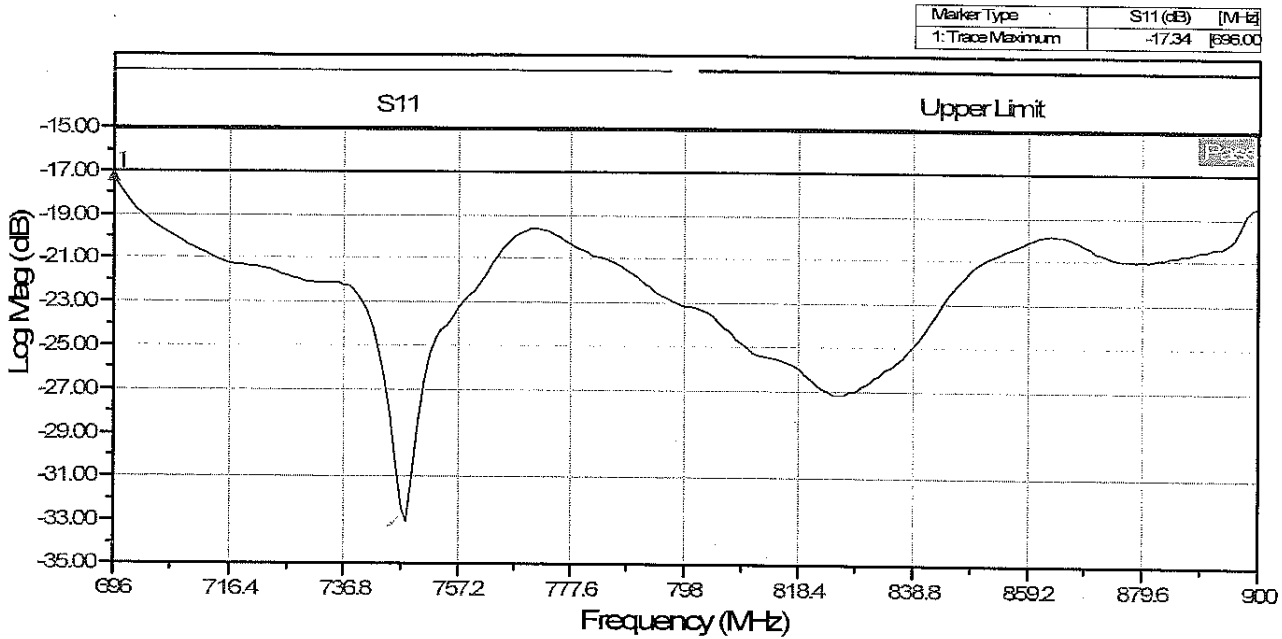
STIMULUS SETTINGS			ALC On		
CARRIER 1			CARRIER 2		
Frequency, MHz	Requested Power, Watt	Offset	Frequency, MHz	Requested Power, Watt	Offset
869.0	20.0	-	894.0	20.0	-
Measured Power	20.0 Watt		Measured Power	20.4 Watt	

REVERSE PIM RESPONSE		Averaging Normal	
PIM Order	PIM Frequency, MHz	PIM Limit, dBc	PIM Level, dBc
IMB	844.00	-150.0	-159.3
Pass			

Large



Model Number 21638060	Test Date/Time 6/21/2013 08:42 AM
Serial Number 664597	Test Station SPC3
SO# 0133780	Tester Suada



PIM Test Details

STIMULUS SETTINGS			ALC On		
CARRIER 1			CARRIER 2		
Frequency, MHz	Requested Power, Watt	Offset	Frequency, MHz	Requested Power, Watt	Offset
869.0	20.0	-	894.0	20.0	-
Measured Power	20.1 Watt		Measured Power	20.0 Watt	
REVERSE PIM RESPONSE			Averaging Normal		
PIM Order	PIM Frequency, MHz	PIM Limit, dBc	PIM Level, dBc		
IMB	844.00	-150.0	-159.8		
Pass					

696-900 MHz



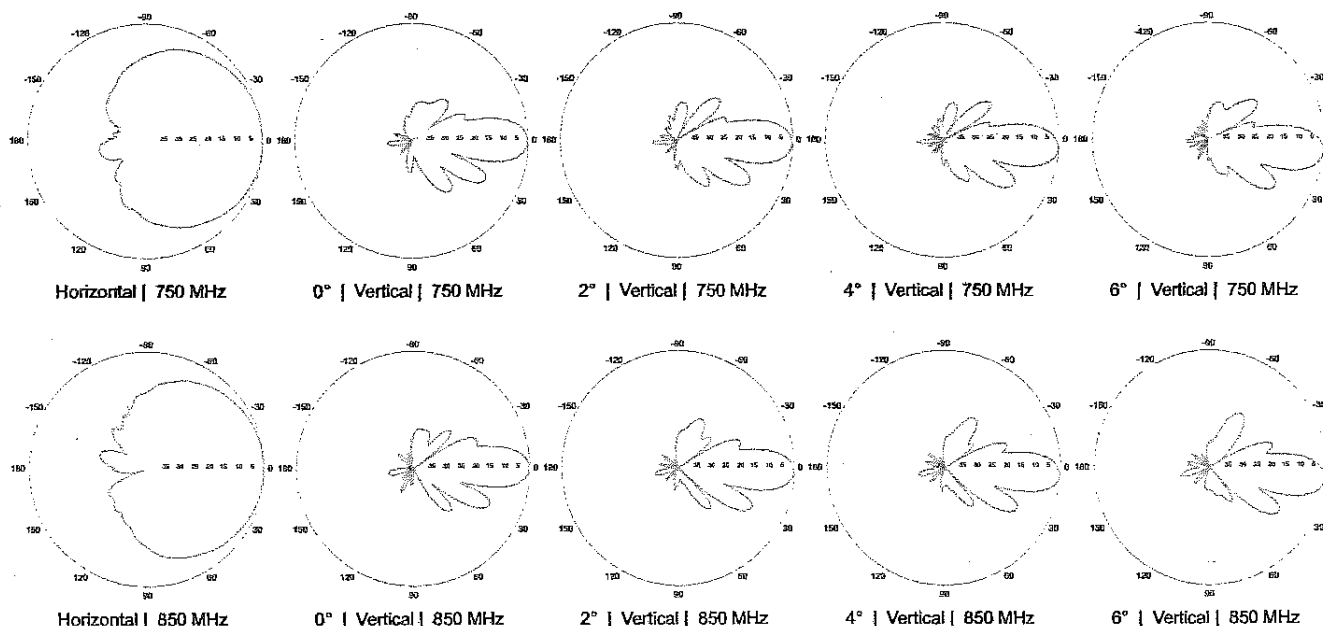
HTXC8514x000

X-Pol | VET Panel | 85° | 13.4 dBi

Replace "L" with "M" for manual electrical tilt or "R" for remote electrical tilt.

HTXC8514x000 - Manual Electrical Tilt Antenna
HTXC8514x000 - Remote Electrical Tilt Antenna

Electrical Characteristics		696-900 MHz			
Frequency bands	696-806 MHz		806-900 MHz		
Polarization	±45°				
Horizontal beamwidth	83°		85°		
Vertical beamwidth	17°		15°		
Gain	10.8 dBd (12.9 dBi)		11.3 dBd (13.4 dBi)		
Electrical downtilt	0-16°				
Impedance	50Ω				
VSWR	≤1.5:1				
Upper sidelobe suppression (0°)	> 16 dB		> 16 dB		
Front-to-back ratio (+/-30°)	> 30 dB		> 30 dB		
Isolation between ports	< -25 dB				
Input power	500 W				
Lightning protection	Direct Ground				
Connector(s)	2 Ports / EDIN or NE / Female / Bottom				
Mechanical Characteristics					
Dimensions HTXC8514x000 (LxWxD)	1305 x 300 x 175 mm		51.4 x 11.8 x 6.9 in		
Dimensions HTXC8514x000 (LxWxD)	1480 x 300 x 175 mm		58.3 x 11.8 x 6.9 in		
Depth with z-brackets	215 mm		8.5 in		
Weight without mounting brackets	9.3 kg		21 lbs		
Survival wind speed	> 201 km/hr		> 125 mph		
Wind loads (160 km/hr or 100 mph)	Front: 652 N; Side: 380 N		Front: 146; Side: 85 lbf		
RET Type / Part Number	External / RETU-EA01				
Mounting Options		Part Number	Fits Pipe Diameter		Weight
2-Point Mounting Bracket Kit	36210002	50-160 mm	2.0-6.3 in	4.5 kg	10 lbs
2-Point Downtilt Bracket Kit	36114003	50-160 mm	2.0-6.3 in	4.9 kg	11 lbs
Downtilt Mounting Applications	A mounting bracket and downtilt bracket kit must be ordered for downtilt applications				



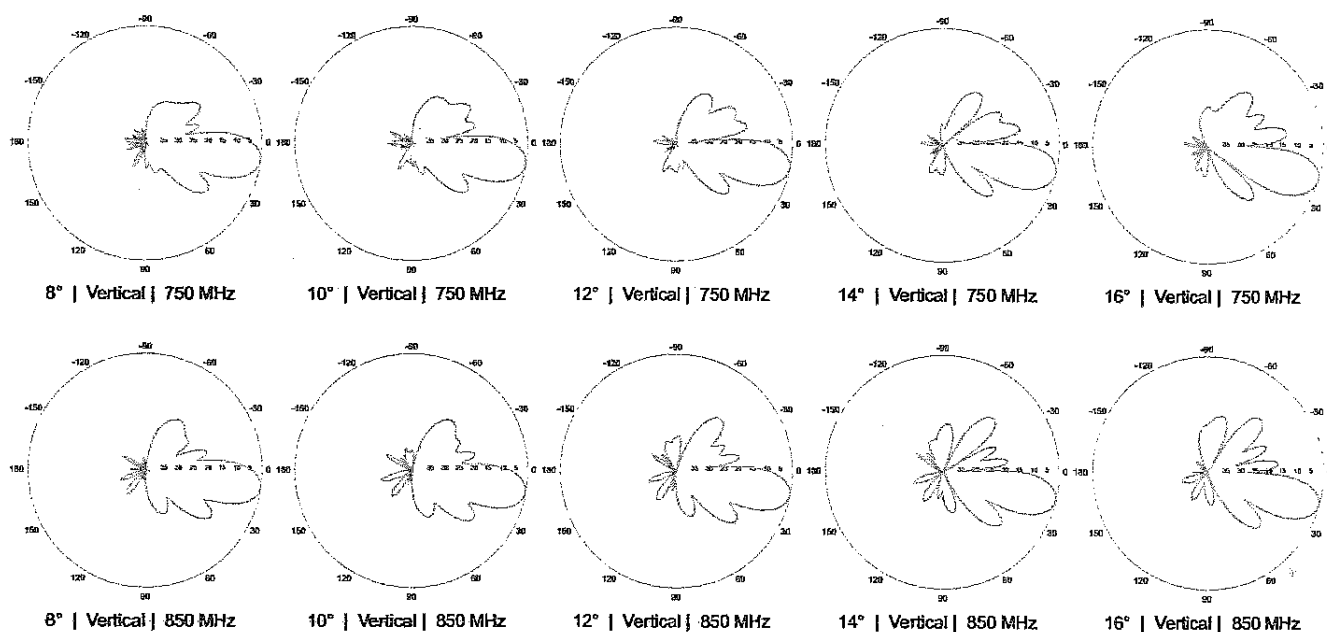
Quoted performance parameters are provided to offer typical or range values only and may vary as a result of normal manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our control. Such conditions may result in damage to this product. Improvements to product may be made without notice.



696-900 MHz

HTXC8514x000

X-Pol | VET Panel | 85° | 13.4 dBi



Quoted performance parameters are provided to offer typical or range values only and may vary as a result of normal manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our control. Such conditions may result in damage to this product. Improvements to product may be made without notice.



91140

NOTICE

ALL PARTS ARE TO BE INVENTORIED AND ANY SHORTAGES
REPORTED WITHIN 48 HOURS OF DELIVERY
TO THE CONTRACTING ERECTOR.

SHORTAGES REPORTED AFTER THIS TIME
PERIOD WILL BE CHARGED TO THE CONTRACTOR.

CALL 712-258-6690

TO REACH THE CONTRACTS DEPARTMENT

AVISO

Todas las partes serán inventariadas y los faltantes reportados
por el contratista dentro de las 48 horas a partir de la entrega.

Los faltantes reportados después de 48 horas serán cargados al contratista.

Para aclaraciones llame a:

Sabre-Departamento de Contrataciones

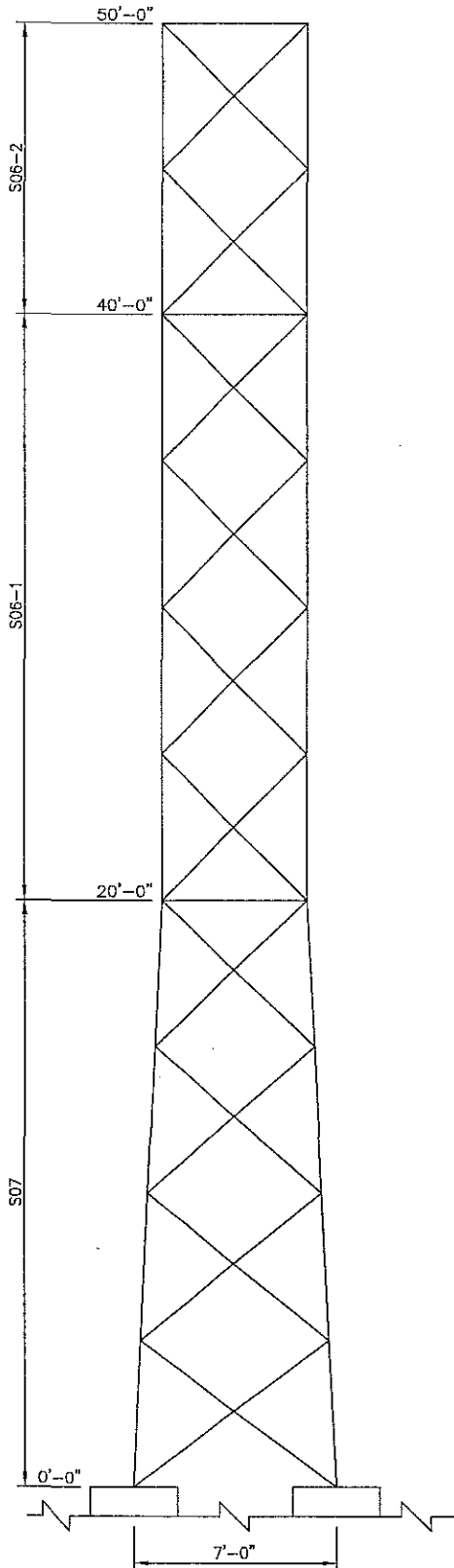
(001) 712-258-6690

MIKE BRADBURY EXT. 11652

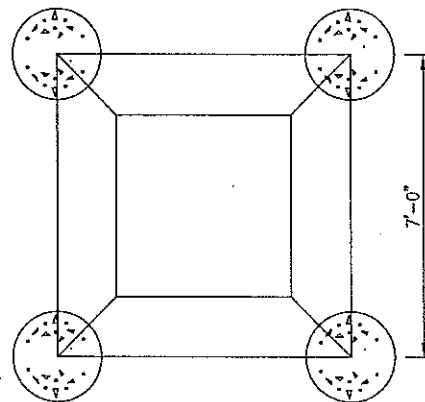
ATTACHMENT A (answers B2, B8)



LEGS	5.563 OD X .375	4.000 OD X .318	2.875 OD X .203
DIAGONALS	L 2 1/2 X 2 1/2 X 5/16	L 3 1/2 X 3 1/2 X 5/16	L 2 X 2 X 1/4
HORIZONTALS	L 2 1/2 X 2 1/2 X 1/4	L 3 X 3 X 1/4	L 2 X 2 X 1/4
BRACE	L 3 X 3 X 3/16		L 2 X 2 X 3/16
BAYS/SECTION	4 BAYS		2 BAYS
SECTION WEIGHT	3440 LBS.	3302 LBS.	938 LBS.



ELEVATION VIEW



PLAN VIEW

ATTACHMNET A (answers B2, B8)

Sabre Industries[®] Towers and Poles		MASTER: 50 FT. MODEL S4TL SITE: DRB CTC, AK CUSTOMER: NEW HORIZONS TELECOM INC	
UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES TOLERANCES: FRACTIONS $\pm 1/16"$ ANGLES $\pm 1/2$ DEG. DECIMALS $\pm .010"$	MATERIAL: TOLERANCES DO NOT APPLY TO RAW MATERIAL	JOB NO. 91140 DATE 11/02/13 DRAWN BY LRS CHECKED BY ZAK Y	SIZE B DRAWING NO. 91140-MS SCALE NONE REV 0 PAGE 1 OF 2
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REV	DATE	DESCRIPTION	



DRAWING LIST

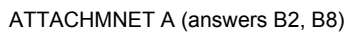
9031315 ANCHOR BOLT LAYOUT
900537 TOWER BASE INSTALLATION
91140-S07 SECTION 0 FT. - 20 FT.
91140-S06-1 SECTION 20 FT. - 40 FT.
91140-S06-2 SECTION 40 FT. - 50 FT.
91140-CL1 CLIMBING LADDER INSTALLATION
907812 CLIMBING LADDER
907813 LADDER BASE
SEE MANUAL W/KIT CABLE SAFETY CLIMB DEVICE
91140-WG1 WAVEGUIDE LADDER INSTALLATION
91140-WG2 WAVEGUIDE LADDER INSTALLATION
907338 WAVEGUIDE LADDER (12 HOLE)
9030894 LEG CAPS & BEACON MOUNT
C301511 TOWER GROUNDING KIT (STD. T.I.A. - REV. G)
9014671 BOLT INSTALLATION
906956 TOWER NAME PLATE
907901 INVENTORY REQUIREMENT SHEET
BOM-1 BILL OF MATERIAL

TOWER DESIGN INFORMATION

THIS ERECTION DRAWING PACKAGE IS BASED ON THE STRUCTURAL ANALYSIS NO. 91140 (REV. A).
TOWER DESIGNED AT 130 MPH WITH NO ICE & 60 MPH WITH 1/2" ICE PER ANSI/TIA-222-G,
STRUCTURE CLASS II, EXPOSURE CATEGORY C AND TOPOGRAPHIC CATEGORY 3, WITH A CREST HEIGHT
OF 1273'.

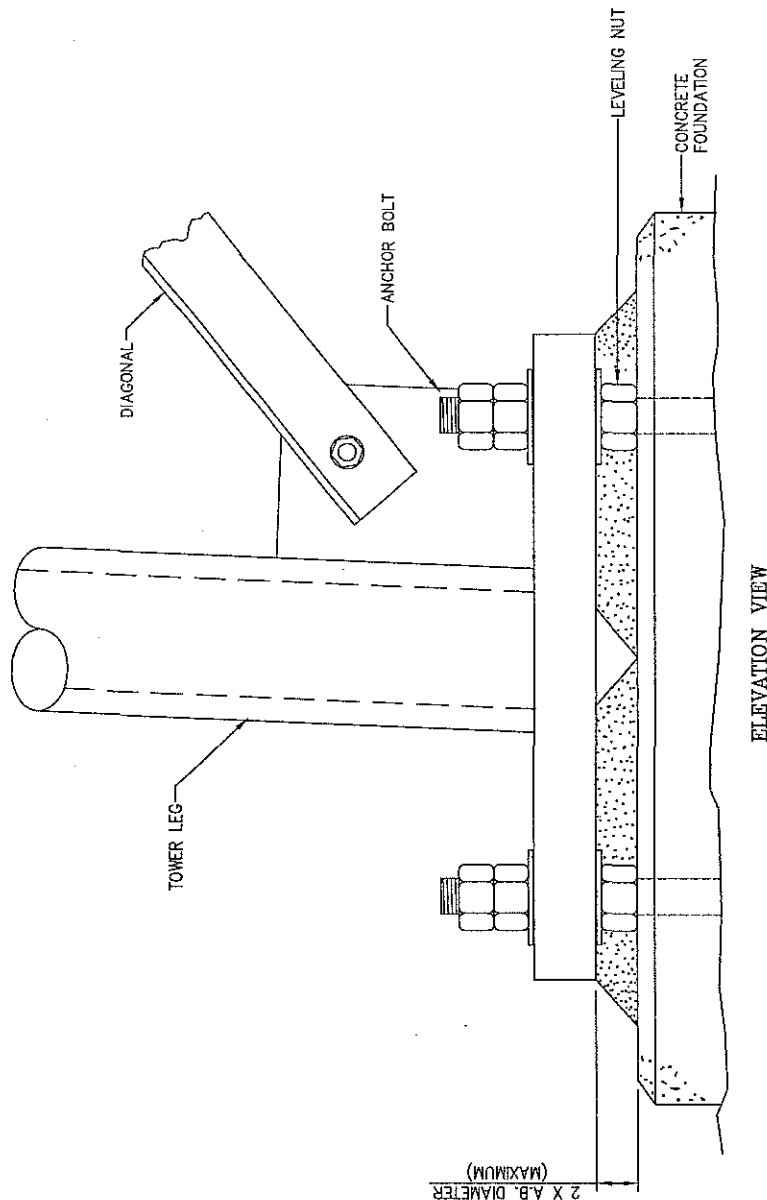
TOWER DESIGNED ANTENNA LOADING	
ELEV.	ANTENNAS
50'	(1) LIGHTNING ROD (OPTIONAL)
50'	(1) 6' SOLID DISH
50'	(1) 6' SOLID DISH
50'	(1) 6' SOLID DISH
50'	(1) 6' SOLID DISH
30'	(1) 8' SOLID DISH
30'	(1) 6' SOLID DISH
30'	(1) 6' SOLID DISH

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES TOLERANCES: FRACTIONS ± 1/16" DECIMALS ± .010"		MATERIAL: TOLERANCES DO NOT APPLY TO RAW MATERIAL		<p>Sabre Industries Towers and Poles</p> <p>CONFIDENTIAL This document and the information contained herein is the confidential trade secret property of Sabre Communications Corporation ("Sabre") and must not be reproduced, copied or used, in whole or in part, for any purpose without the prior written consent of Sabre. © 2013 Sabre Communications Corporation. All rights reserved.</p>	
REV	DATE	DRW/CHK	DESCRIPTION	<p>MASTER: 50 FT. MODEL S4TL SITE: DRB CTC, AK CUSTOMER: NEW HORIZONS TELECOM INC</p>	
			JOB NO. 91140	SIZE B	DRAWING NO. 91140-MS
			DATE 11/02/13	LRS	REV 0
			CHECKED BY ZAK	SCALE NONE	PAGE 2 OF 2





1. AFTER THE TOWER HAS BEEN PARTIALLY ERECTED, AND PLUMBED, INSTALL GROUT BETWEEN THE BASE PLATE AND THE TOP OF THE FOUNDATION.
2. WHEN INSTALLING GROUT, PROPER DRAINAGE MUST BE ASSURED. "VEE" THE GROUT UNDER THE TOWER LEGS.
3. GROUT IS TO BE A NON-SHRINK, HIGH STRENGTH, GROUT WITH A MINIMUM COMPRESSIVE STRENGTH OF 5000 psi. INSTALL GROUT PER MANUFACTURER'S RECOMMENDATIONS.



ELEVATION VIEW

[illegible]

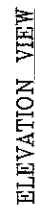
Sabre Industries™
Towers and Poles

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TOWER BASE INSTALLATION

DATE	11/22/85	SIZE	DRAWING NO.	REV
DRAWN BY	DEM			
CHECKED BY	D.W			
			900537	10
			SCALE	PAGE
			None	1 OF 1



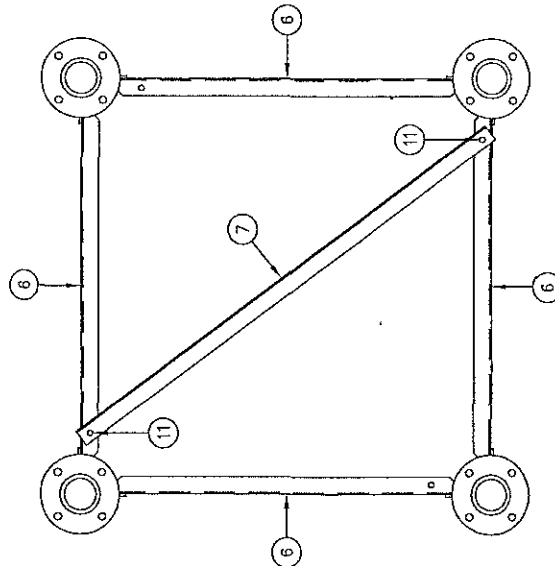
1. THE PART NUMBERS FOR ALL LEGS ARE LOCATED AT THE TOP OF EACH PART.

60 of 114

LIST OF MATERIAL

TOTAL SECTION WEIGHT - INCLUDES 3 LEGS, BRACING AND HARDWARE KIT	3440
--	------

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES TOLERANCES: FRACTIONS ± 1/16" ANGLES ± 1/2 DEG. DECIMALS ± .010"		<div><div>Sabre Industries™</div><div>Towers and Poles</div></div>		SECTION ERECTION: 07 07-T8200138 SITE: DRB CTC, AK CUSTOMER: NEW HORIZONS TELECOM INC				
MATERIAL:		<div>CONFIDENTIAL</div> <div>This document and the information contained herein is the confidential trade secret property of Sabre Communications Corporation ("Sabre") and must not be reproduced, copied or used, in whole or in part, for any purposes without the prior written consent of Sabre Communications Corporation. All rights reserved.</div>		JOB NO. 81140		SIZE	DRAWING NO.	REV
TOLERANCES DO NOT APPLY TO RAW MATERIAL				DATE		10/18/13	B	91140-S07
REV	DATE	DRAWING NO.	SCALE	PAGE				

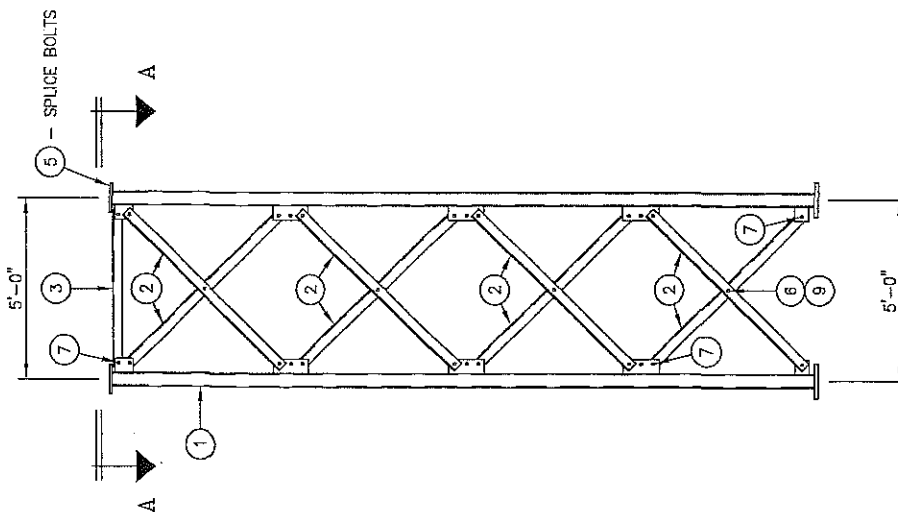


SECTION A-A

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<p>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES TOLERANCES: FRACTIONS $\pm 1/16"$ ANGLES $\pm 1/2$ DEG. DECIMALS $\pm .010"$</p>	<p>MATERIAL</p> <p>TOLERANCES DO NOT APPLY TO RAW MATERIAL</p>	<p>JOB NO. 91140 DATE 10/18/13 DRAWN BY DPJ CHECKED BY DLK</p>	<p>SIZE B DRAWING NO. 91140-S07 SCALE None REV 0 PAGE 2 OF 2</p>
REV	DATE	DESCRIPTION	DRW/CHK



LIST OF MATERIAL



ELEVATION VIEW

06--LEGS

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
1	4	06-11170304	SECT. 6 LEG 4 ϕ X .315 X 20'-0 5/16	1501
TOTAL WEIGHT LBS				1501

06--T8200139 BRACING KIT

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
2	32	TS07183	ANGLE, DIAGONAL 3 1/2 X 3 1/2 X 5/16 X 6'-2 13/16	1494
3	4	TS07184	ANGLE, HORIZONTAL 3 X 3 X 1/4 X 4'-5 1/2	91
4	1	TS07185	ANGLE, INTERNAL 3 X 3 X 3/16 X 6'-0 11/16	23
TOTAL WEIGHT LBS				1608

SPLICE BOLTS

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
5	17	C40026078	BOLT ASSEMBLY, 1 ϕ X 4 1/4 A325	37
TOTAL WEIGHT LBS				37

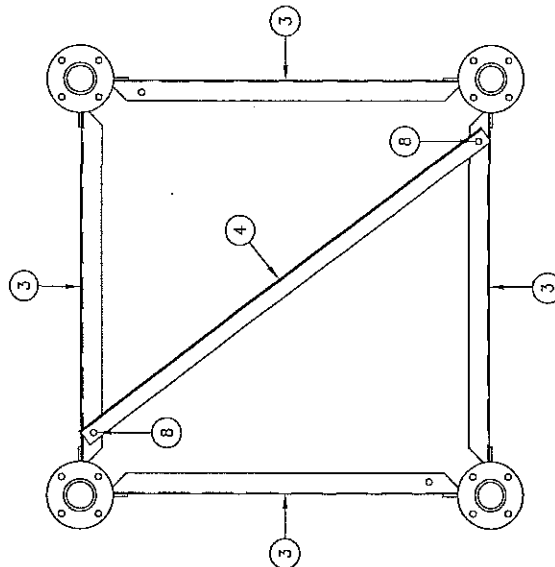
TK00915 HARDWARE KIT

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
6	17	C40026072	BOLT ASSEMBLY, 1 ϕ X 2 3/4 A325	29
7	74	C40026071	BOLT ASSEMBLY, 1 ϕ X 2 1/2 A325	121
8	3	C40026108	BOLT ASSEMBLY, 1 ϕ X 2 1/4 A325	5
9	17	C40047007	RINGFILL, 3/8 THICK -- 1" ϕ BOLT	1
TOTAL WEIGHT LBS				156


TOTAL SECTION WEIGHT -- INCLUDES 3 LEGS, BRACING AND HARDWARE KIT 3302

<p>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES</p> <p>TOLERANCES: FRACTIONS $\pm 1/16"$ ANGLES $\pm 1/2$ DEG. DECIMALS $\pm .010"$</p>		<p>MATERIAL</p> <p>TOLERANCES DO NOT APPLY TO RAW MATERIAL</p>		<p>Sabre IndustriesTM Towers and Poles</p> <p>CONFIDENTIAL This document and the information contained herein is the confidential secret property of Sabre Communications Corporation ("Sabre") and must not be reproduced, copied or used, in whole or in part, for any purpose without the prior written consent of Sabre Communications Corporation. © 2013 Sabre Communications Corporation. All rights reserved.</p>		<p>SECTION ERECTION: 06-20 06-T8200139</p> <p>SITE: DRB CTC, AK</p> <p>CUSTOMER: NEW HORIZONS TELECOM INC</p>	
REV	DATE	BY	DESCRIPTION	JOB NO. 91140	SIZE B	DRAWING NO. 91140-S06-1	REV 0
				DATE 10/18/13			
				DRAWN BY DPJ			PAGE 1 OF 2
				CHECKED BY DLK		SCALE None	

FIELD NOTE:
1. THE PART NUMBERS FOR ALL LEGS ARE LOCATED AT THE TOP OF EACH PART.



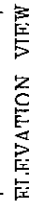
SECTION A—A

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES TOLERANCES: FRACTIONS ± 1/16" ANGLES ± 1/2 DEG. DECIMALS ± .010"		MATERIAL	<div><div>Sabre Industries® Towers and Poles</div></div>		SECTION ERECTION: 06-20 06-T8200139			
TOLERANCES DO NOT APPLY TO RAW MATERIAL			<div>CONFIDENTIAL</div> <div>This document and the information contained herein is the confidential secret property of Sabre Communications Corporation ("Sabre") and must not be reproduced, copied or used, in whole or in part, for any purposes without the prior written consent of Sabre Communications Corporation. All rights reserved.</div>		SITE: DRB CTC, AK			
					CUSTOMER: NEW HORIZONS TELECOM INC			
			JOB NO. 91140		SIZE	DRAWING NO.	REV	
			DATE		10/19/13	B	91140-S06-1	0
			DRWN BY		DPJ			
REV	DATE	DESCRIPTION	CHECKED BY		DLK	✓	SCALE	PAGE
							None	2 OF 2

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[illegible]06-LEGS06-T8200140 BRACING KITTK00916 HARDWARE KIT

TOTAL SECTION WEIGHT -- INCLUDES 3 LEGS, BRACING AND HARDWARE KIT

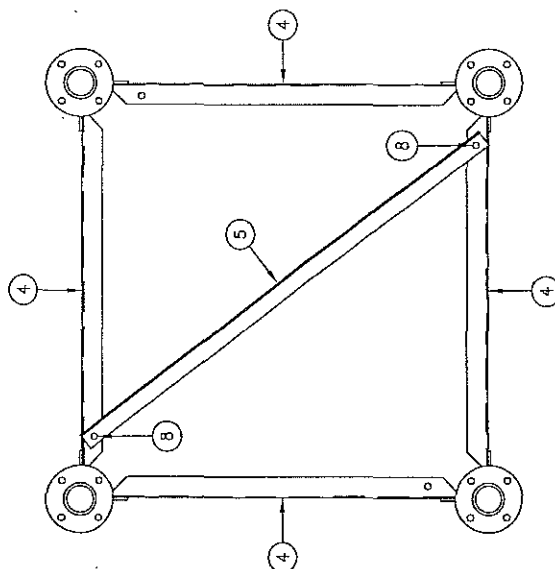


1. THE PART NUMBERS FOR ALL LEGS ARE LOCATED AT THE TOP OF EACH PART.


Sabre Industries™
Towers and Poles

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SIZE	DRAWING NO.
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SECTION A-A

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES TOLERANCES: FRACTIONS $\pm 1/16"$ ANGLES $\pm 1/2$ DEG. DECIMALS $\pm .010"$		MATERIAL		 Sabre Industries towers and Poles CONFIDENTIAL This document and the information contained herein is the confidential trade secret property of Sabre Communications Corporation ("Sabre") and must not be reproduced, copied, or disseminated in any form or by any means without the prior written consent of Sabre. © 2013 Sabre Communications Corporation. All rights reserved.	
SECTION ERECTION: 06-10 06-TB200140		SITE: DRB CTC, AK		CUSTOMER: NEW HORIZONS TELECOM INC	
JOB NO. 91140	SIZE B	DRAWING NO. 91140-S06-2	REV 0		
DATE 10/19/13	DPJ	CHECKED BY DLK V	SCALE None	PAGE 2 OF 2	

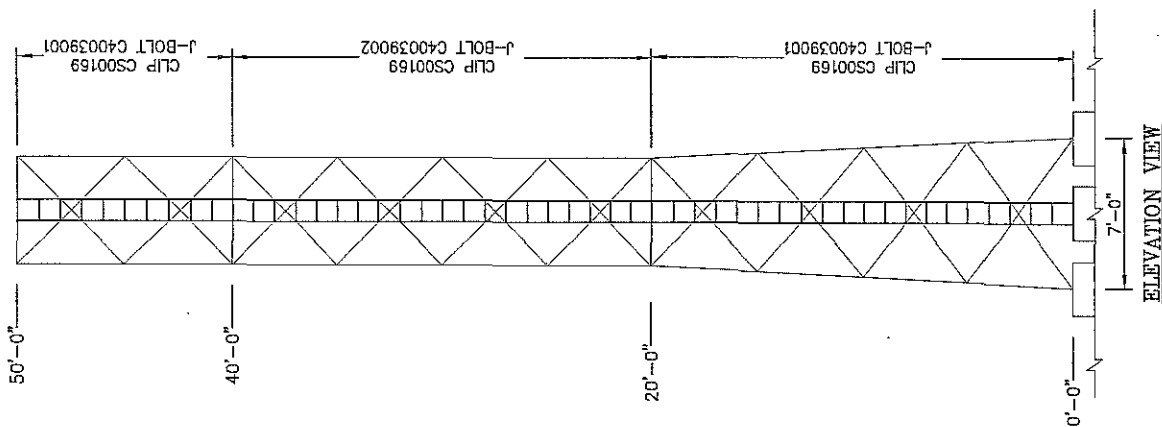


CLIMBING LADDER				
ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
1	2	CW00031	WELDMENT, 20 FT. CLIMBING LADDER 12" WIDE	149
2	1	CW00029	WELDMENT, 10 FT. CLIMBING LADDER 12" WIDE	37
3	4	CS00037	PLATE, LADDER SPLICE	2
4	2	CS00242	ANGLE, LADDER BASE SUPPORT	15
5	10	CS00169	CLIP, LADDER ATTACHMENT	8
TOTAL WEIGHT LBS				209

LADDER HARDWARE				
ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
6	4	C40039002	J-BOLT ASSEMBLY, 3/8" Ø X 7 1/4" I.L.	1
7	6	C40039001	J-BOLT ASSEMBLY, 3/8" Ø X 5 3/4" I.L.	2
8	10	C40024004	BOLT ASSEMBLY, 3/8" Ø X 1 1/2" GRD 5	1
TOTAL WEIGHT LBS				4

FIELD NOTES

1. FROM ELEVATION 0'-0" TO 50'-0" ATTACH LADDER TO EVERY OTHER DIAGONAL.
2. SEE REFERENCE DWG. 907812 FOR CLIMBING LADDER INSTALLATION FROM ELEVATION 0'-0" TO 50'-0".
3. SEE REFERENCE DWG. 907813 FOR CLIMBING LADDER BASE INSTALLATION.
4. NO CONSTRUCTION STEP BOLTS REQUIRED.
5. SEE CUSTOMER REQUESTS FOR PROPER FACE POSITIONING OF ALL LADDERS.

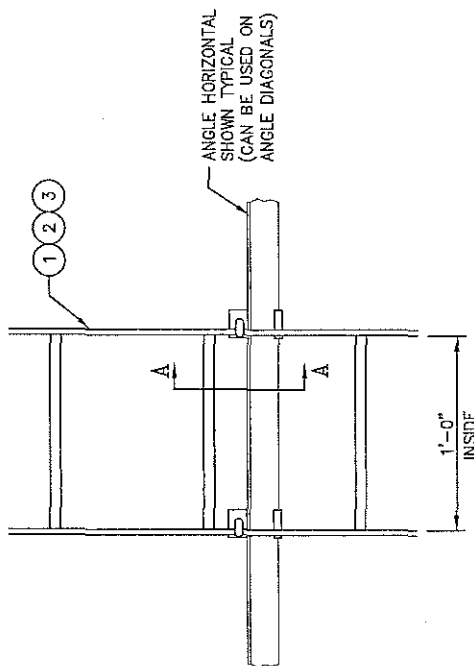


ATTACHMNET A (answers B2, B8)

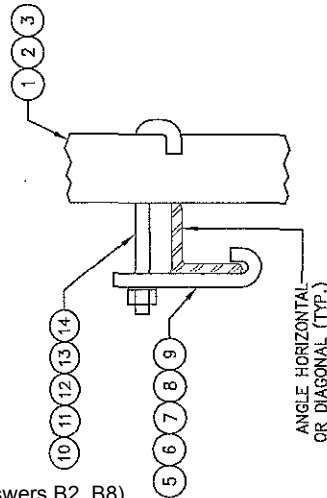
<p>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES TOLERANCES: FRACTIONS $\pm 1/16"$ ANGLES $\pm 1/2$ DEG. DECIMALS $\pm .010"$</p>		<p>MATERIAL TOLERANCES DO NOT APPLY TO RAW MATERIAL</p>		<p>Sabre Industries™ Towers and Poles</p>		<p>CLIMBING LADDER: 50 FT. MODEL S4TL SITE: DRB CTC, AK CUSTOMER: NEW HORIZONS TELECOM INC</p>	
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REV	DATE	BY/CHK	DESCRIPTION				

LIST OF MATERIAL			
ITEM	QTY.	PART NO.	DESCRIPTION
1.	A/R	CW00031	WELDMENT, 20 FT CLIMBING LADDER
2.	A/R	CW00029	WELDMENT, 10 FT CLIMBING LADDER
3.	A/R	CW00025	WELDMENT, 5 FT CLIMBING LADDER
4.	A/R	CS00037	PLATE, LADDER SPLICE
5.	A/R	CS00169	CLIP, LADDER ATTACHMENT (1 1/2" - 4" ANGLES)
6.	A/R	CS00170	CLIP, LADDER ATTACHMENT (5" - 6" ANGLES, 3/8" THK. & UNDER)
7.	A/R	CS00171	CLIP, LADDER ATTACHMENT (1 1/2" - 6" ANGLES)
8.	A/R	CS00808	CLIP, LADDER ATTACHMENT (4" - 6" ANGLES, 1/2" TO 3/4" THK.)
9.	A/R	CS01212	CLIP, LADDER ATTACHMENT (6" ANGLES)
10.	A/R	C40039001	J-BOLT ASSY., 3/8 (1 1/2" - 2 1/2" ANGLES)
11.	A/R	C40039002	J-BOLT ASSY., 3/8 (3" - 4" ANGLES)
12.	A/R	C40039003	J-BOLT ASSY., 3/8 (5" - 6" ANGLES)
13.	A/R	C40039009	J-BOLT ASSY., 3/8 (3" - 6" ANGLES, 1/2" & 3/4" THK.)
14.	A/R	C40039012	J-BOLT ASSY., 3/8 (6" ANGLES, 1/2" & 3/4" THK.)
15.	A/R	C40024004	BOLT ASSEMBLY, 3/8 X 1 1/2 GR5
			TOTAL WEIGHT

*SEE JOB SPECIFIC BILL OF MATERIAL FOR QTY'S.

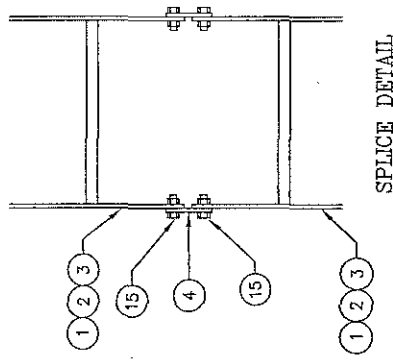


ELEVATION
(TYPICAL MOUNTING DETAIL)



SECTION A-A

NOTE:
MAXIMUM SPACING OF LADDER CLIPS
UP THE TOWER TO BE ±10'-0".



SPLICE DETAIL

REV	DATE	DESCRIPTION
1	11/13/07	FOR 10' TOWER, 10' TOWER CORRECTED NUMBERS IN BUBBLES
2	11/13/07	FOR 10' TOWER, 10' TOWER CORRECTED NUMBERS IN BUBBLES
3	11/13/07	FOR 10' TOWER, 10' TOWER CORRECTED NUMBERS IN BUBBLES
4	11/13/07	FOR 10' TOWER, 10' TOWER CORRECTED NUMBERS IN BUBBLES
5	11/13/07	FOR 10' TOWER, 10' TOWER CORRECTED NUMBERS IN BUBBLES
6	11/13/07	FOR 10' TOWER, 10' TOWER CORRECTED NUMBERS IN BUBBLES
7	11/13/07	FOR 10' TOWER, 10' TOWER CORRECTED NUMBERS IN BUBBLES
8	11/13/07	FOR 10' TOWER, 10' TOWER CORRECTED NUMBERS IN BUBBLES
9	11/13/07	FOR 10' TOWER, 10' TOWER CORRECTED NUMBERS IN BUBBLES
10	11/13/07	FOR 10' TOWER, 10' TOWER CORRECTED NUMBERS IN BUBBLES
11	11/13/07	FOR 10' TOWER, 10' TOWER CORRECTED NUMBERS IN BUBBLES
12	11/13/07	FOR 10' TOWER, 10' TOWER CORRECTED NUMBERS IN BUBBLES
13	11/13/07	FOR 10' TOWER, 10' TOWER CORRECTED NUMBERS IN BUBBLES
14	11/13/07	FOR 10' TOWER, 10' TOWER CORRECTED NUMBERS IN BUBBLES
15	11/13/07	FOR 10' TOWER, 10' TOWER CORRECTED NUMBERS IN BUBBLES

Sabre Industries
Towers and Poles

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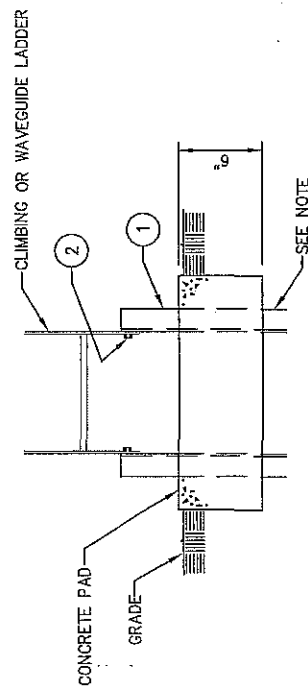
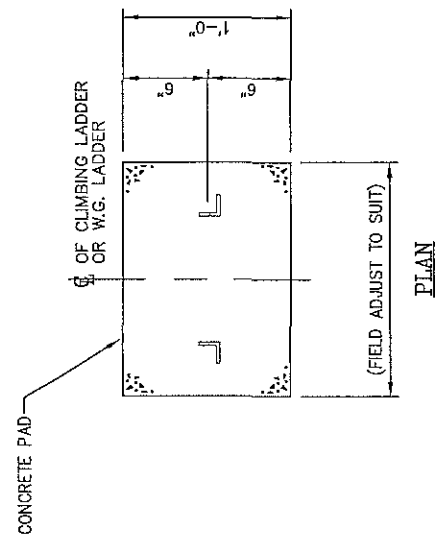
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TYPICAL CLIMBING LADDER INSTALLATION
(STANDARD 12" WIDE LADDER)

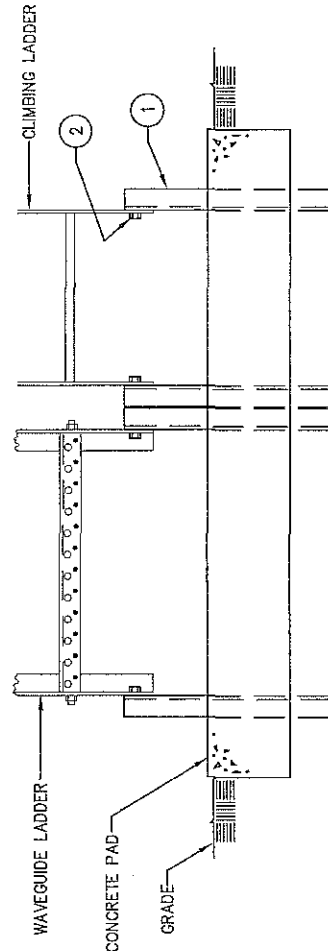
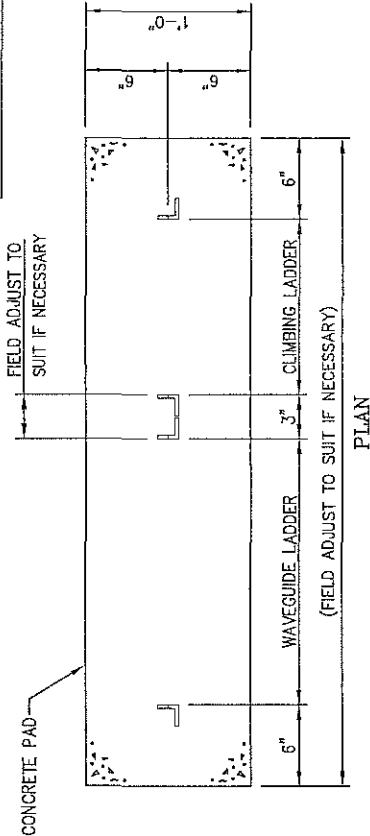
DATE	4/18/97	SIZE	B	DRAWING NO.	907812	REV	10
DRAWN BY	ZAK	CHECKED BY	DLW	SCALE	None	PAGE	1 OF 1

LIST OF MATERIAL			
ITEM	QTY.	PART NO.	DESCRIPTION
1.	A/R	CS00242	ANGLE, LADDER BASE SUPPORT
2.	A/R	C40024004	BOLT ASSEMBLY, 3/8 X 1 1/2 GR5
			TOTAL WEIGHT



SINGLE LADDER BASE INSTALLATION FOR HD SERIES

NOTE:
SUPPORT ANGLES MAY BE CUT IN FIELD TO PREVENT PROTRUDING THROUGH THE BOTTOM OF THE CONCRETE BLOCK.



DOUBLE LADDER BASE INSTALLATION FOR 29, S3R & VARIOUS SERIES

REV	DATE	BY	CHK	DESCRIPTION
1	8/23/78	WAVEGUIDE	WAVEGUIDE	WAVEGUIDE
2	8/23/78	WAVEGUIDE	WAVEGUIDE	WAVEGUIDE
3	8/23/78	WAVEGUIDE	WAVEGUIDE	WAVEGUIDE
4	8/23/78	WAVEGUIDE	WAVEGUIDE	WAVEGUIDE
5	8/23/78	WAVEGUIDE	WAVEGUIDE	WAVEGUIDE
6	8/23/78	WAVEGUIDE	WAVEGUIDE	WAVEGUIDE

UNLESS OTHERWISE SPECIFIED
ALL DIMENSIONS INCLUDE
FINISHES AND ARE IN INCHES
TOLERANCES: FRACTIONS $\pm 1/16"$
DECIMALS $\pm .010"$
TO RAW MATERIAL

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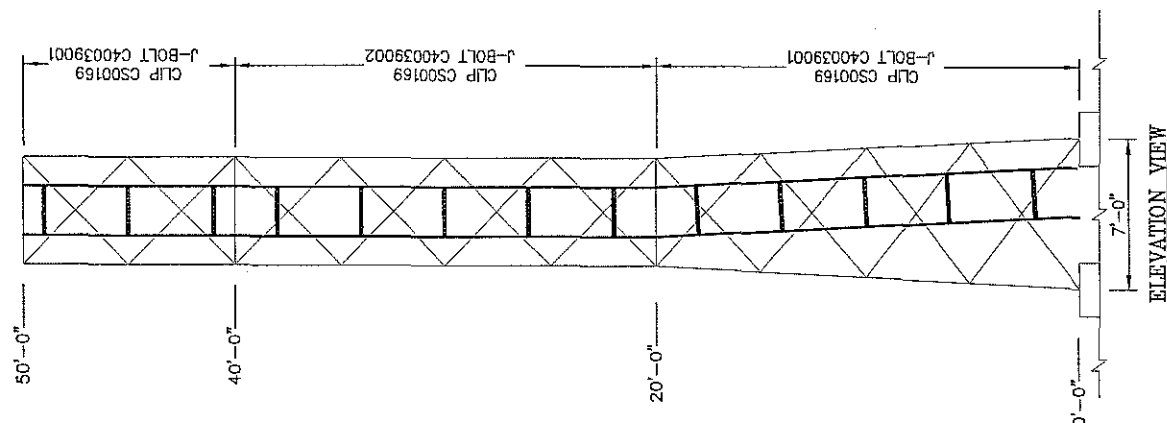
LADDER BASE INSTALLATION FOR
SELF-SUPPORTING TOWERS

		SIZE	DRAWING NO.	REV
DATE	4/18/97	B	907813	6
DRAWN BY	ZAK	SCALE		PAGE
CHECKED BY	DLW	None		1 OF 1



WAVEGUIDE LADDER				
ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
1	4	CS00146	ANGLE, WAVEGUIDE LADDER RAIL 20 FT. W/4 FT. RUNG SPC	120
2	2	CS00148	ANGLE, WAVEGUIDE LADDER RAIL 10 FT. W/4 FT. RUNG SPC	30
3	13	CS00151	ANGLE, WAVEGUIDE SUPPORT (12 HOLE)	49
4	4	CS00037	PLATE, LADDER SPLICE	2
5	10	CS00169	CLIP, LADDER ATTACHMENT	6
TOTAL WEIGHT LBS				207

LADDER HARDWARE				
ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
6	4	C40039002	J-BOLT ASSEMBLY, 3/8" Ø X 7 1/4" I.L.	1
7	6	C40039001	J-BOLT ASSEMBLY, 3/8" Ø X 5 3/4" I.L.	2
8	34	C40024004	BOLT ASSEMBLY, 3/8" Ø X 1 1/2" GRD 5	3
TOTAL WEIGHT LBS				6

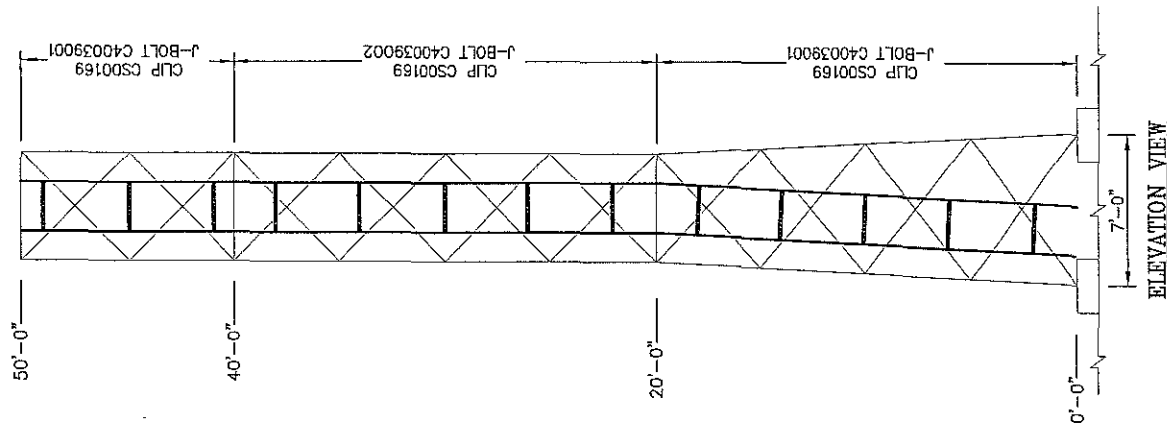


ATTACHMNET A (answers B2, B8)

FIELD NOTES

1. FROM ELEVATION 0'-0" TO 50'-0" ATTACH WAVEGUIDE LADDER TO EVERY OTHER TOWER DIAGONAL.
2. SEE REFERENCE DWG. 907338 FOR WAVEGUIDE LADDER INSTALLATION AND ATTACHMENT DETAIL.
3. SEE CUSTOMER REQUESTS FOR PROPER FACE POSITIONING OF ALL LADDERS.
4. WAVEGUIDE LADDERS ARE NEVER TO BE USED AS A CLIMBING DEVICE.

Sabre Industries™ Towers and Poles		W/G LADDER: 50 FT. MODEL S4TL	
		SITE: DRB CTC, AK	
CUSTOMER: NEW HORIZONS TELECOM INC		JOB NO. 91140	DRAWING NO. 91140-WG1
DATE 11/01/13	SIZE B	LRS	SCALE NONE
DRAWN BY	CHECKED BY ZAKV	PAGE 1	OF 1
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UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE FINISHES AND ARE IN INCHES TOLERANCES: FRACTIONS ± 1/16" ANGLES ± 1/2 DEG. DECIMALS ± .010"	MATERIAL	TOLERANCES DO NOT APPLY TO RAW MATERIAL	DESCRIPTION
REV	DATE	DRWING	



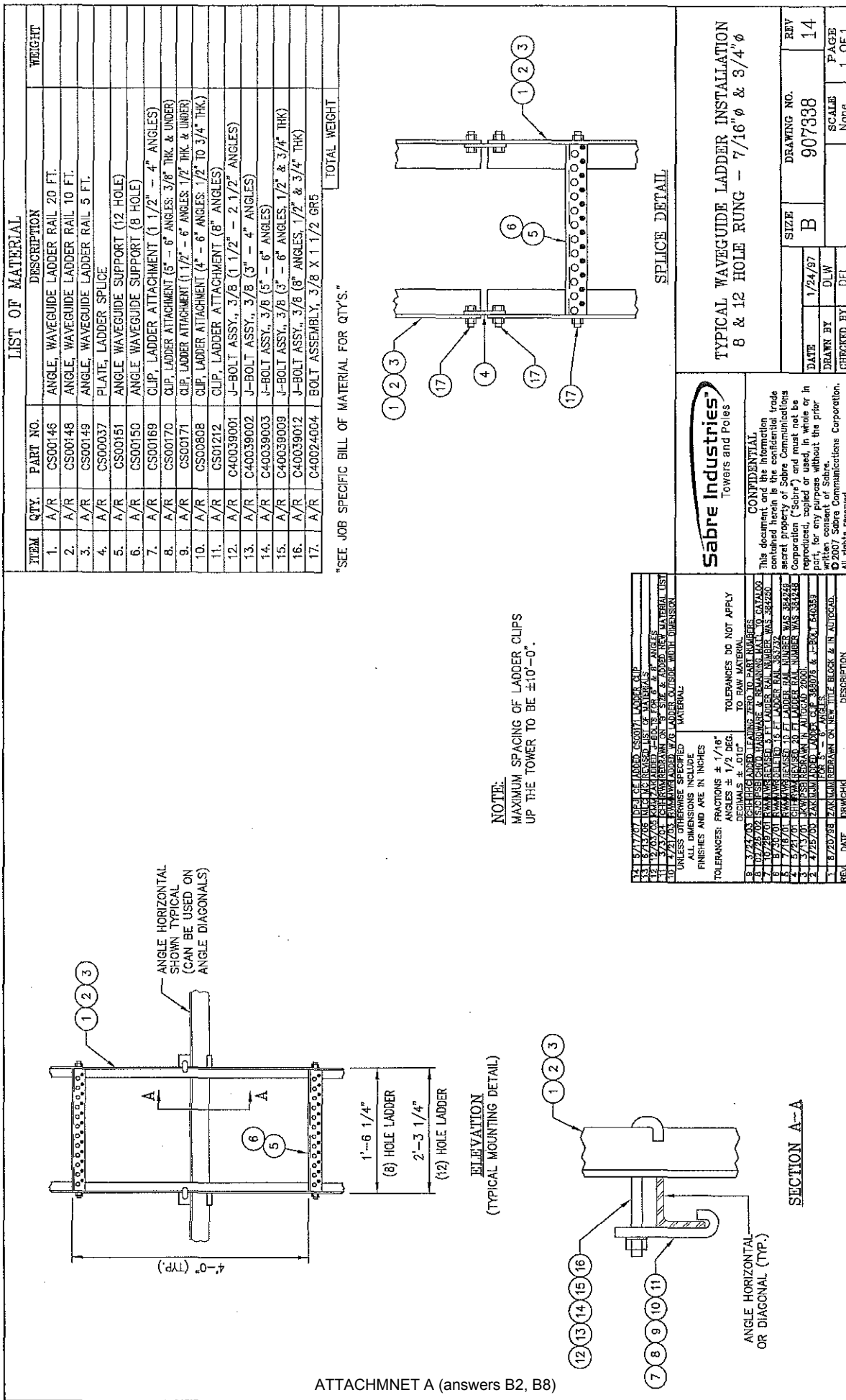
WAVEGUIDE LADDER				
ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
1	4	CS00146	ANGLE, WAVEGUIDE LADDER RAIL 20 FT. W/4 FT. RUNG SPC	120
2	2	CS00148	ANGLE, WAVEGUIDE LADDER RAIL 10 FT. W/4 FT. RUNG SPC	30
3	13	CS00151	ANGLE, WAVEGUIDE SUPPORT (12 HOLE)	49
4	4	CS00037	PLATE, LADDER SPLICE	2
5	10	CS00169	CLIP, LADDER ATTACHMENT	6
TOTAL WEIGHT LBS				207

LADDER HARDWARE				
ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
6	4	C40039002	J-BOLT ASSEMBLY, 3/8" Ø X 7 1/4" I.L.	1
7	6	C40039001	J-BOLT ASSEMBLY, 3/8" Ø X 5 3/4" I.L.	2
8	34	C40024004	BOLT ASSEMBLY, 3/8" Ø X 1 1/2" GRD 5	3
TOTAL WEIGHT LBS				6

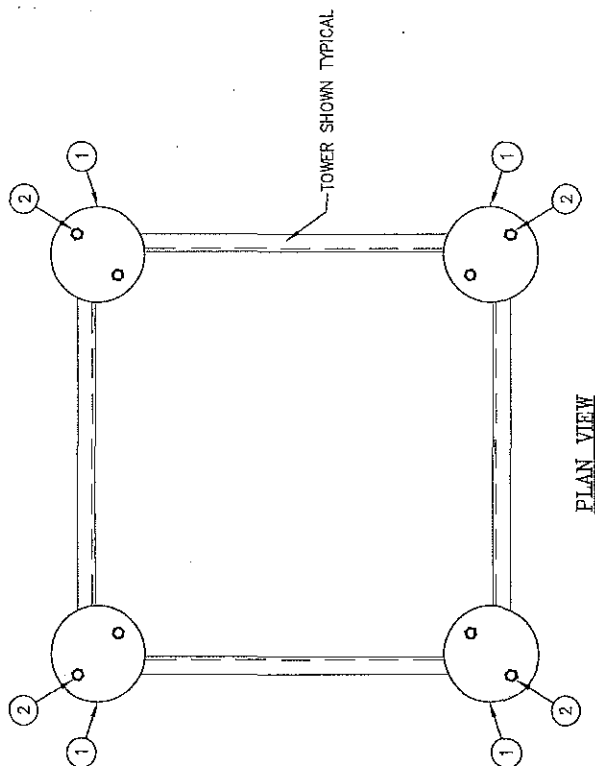
FIELD NOTES

1. FROM ELEVATION 0'-0" TO 50'-0" ATTACH WAVEGUIDE LADDER TO EVERY OTHER TOWER DIAGONAL.
2. SEE REFERENCE DWG. 907338 FOR WAVEGUIDE LADDER INSTALLATION AND ATTACHMENT DETAIL.
3. SEE CUSTOMER REQUESTS FOR PROPER FACE POSITIONING OF ALL LADDERS.
4. WAVEGUIDE LADDERS ARE NEVER TO BE USED AS A CLIMBING DEVICE.

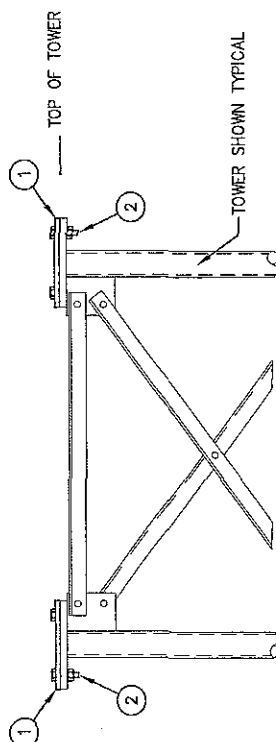
Sabre Industries™ Towers and Poles <small>CONFIDENTIAL</small> <small>This document and the information contained herein is the confidential trade secret property of Sabre Communications Corporation ("Sabre") and must not be reproduced, copied or used, in whole or in part, without the prior written consent of Sabre.</small> <small>© 2013 Sabre Communications Corporation. All rights reserved.</small>		W/G LADDER: 50 FT. MODEL S4TL SITE: DRB CTC, AK CUSTOMER: NEW HORIZONS TELECOM INC	
		JOE NO. 91140 DATE: 11/01/13 DRAWN BY: LRS CHECKED BY: ZAKV	SIZE: /B DRAWING NO. 91140-WG2 REV 0
<small>UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS AND FINISHES ARE IN INCHES</small> <small>TOLERANCES: FRACTIONS ± 1/16"</small> <small>ANGLES ± 1/2 DEG.</small> <small>DECIMALS ± .010"</small>		<small>TOLERANCES DO NOT APPLY TO RAW MATERIAL</small>	
REF	DATE	DRWCHK	DESCRIPTION



ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT
1.	4	CS01489	PLATE, LEG CAP	8.0#
2.	8	C40026044	BOLT ASSEMBLY, 3/4" Ø X 2 1/4" A325	5.9#
TOTAL WEIGHT				13.9#

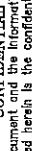


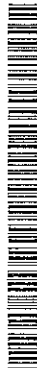
PLAN VIEW



ELEVATION VIEW

ATTACHMNET A (answers B2, B8)

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES TOLERANCES: FRACTIONS $\pm 1/16"$ ANGLES $\pm 1/2$ DEG. DECIMALS $\pm .010"$	MATERIAL: FITS 13/16" \times 1 HOLES ON A 5 1/2" BOLT CIRCLE.		<p>CONFIDENTIAL</p> <p>This document and the information contained herein is the confidential trade secret property of Sabre Communications Corporation ("Sabre") and must not be reproduced, copied or used, in whole or in part, for any purpose without the prior consent of Sabre Communications Corporation. All rights reserved.</p>	LEG CAP INSTALLATION FOR S4TL TOWER (3/4" THICK SPLICE PLATE)							
				DATE	3/22/11	SIZE	B	DRAWING NO.	9030894	REV	0
				DRAWN BY	DLK	CHECKED BY	CF	SCALE	None	PAGE	1 OF 1



TIA-222-G GROUNDING KITS FOR SELF SUPPORTING TOWERS

KIT NUMBER	TOWER LEG QTY.	ANCHOR BOLT DIA.	ITEM #1 GROUND ROD 5/8 X 10'-0" GALV. STEEL	ITEM #2 GROUND ROD CLAMP 5/8	ITEM #3 GROUND LUG (AT TOWER LEG)	ITEM #4 GROUND WIRE 2/0 STRANDED BARE COPPER	ITEM #5 GROUNDING ATTACHMENT PLATE	ITEM #6 BOLT ASSY 1/4 X 1 S.S.	KIT WEIGHT
C30151101	3	1 1/2"	C30096006	C30097008	C30093000	C30095103	C30098007	C40012003	129#
C30151102	3	3/4"	C30096006	C30097008	C30093000	C30095103	C30098001	C40012003	132#
C30151103	3	7/8" & 1"	C30096006	C30097008	C30093000	C30095103	C30098002	C40012003	132#
C30151104	3	1 1/4" & 1 1/2"	C30096006	C30097008	C30093000	C30095103	C30098003	C40012003	132#
C30151105	3	1 3/4"	C30096006	C30097008	C30093000	C30095103	C30098004	C40012003	132#
C30151106	3	2"	C30096006	C30097008	C30093000	C30095103	C30098005	C40012003	132#
C30151107	3	2 1/4"	C30096006	C30097008	C30093000	C30095103	C30098006	C40012003	132#
C30151108	3	2 1/2"	C30096006	C30097008	C30093000	C30095103	C30098008	C40012003	132#
C30151151	4	1 1/2"	C30096006	C30097008	C30093000	C30095103	C30098007	C40012003	129#
C30151152	4	3/4"	C30096006	C30097008	C30093000	C30095103	C30098001	C40012003	134#
C30151153	4	7/8" & 1"	C30096006	C30097008	C30093000	C30095103	C30098002	C40012003	134#
C30151154	4	1 1/4" & 1 1/2"	C30096006	C30097008	C30093000	C30095103	C30098003	C40012003	134#
C30151155	4	1 3/4"	C30096006	C30097008	C30093000	C30095103	C30098004	C40012003	134#
C30151156	4	2"	C30096006	C30097008	C30093000	C30095103	C30098005	C40012003	134#
C30151157	4	2 1/4"	C30096006	C30097008	C30093000	C30095103	C30098006	C40012003	134#
C30151158	4	2 1/2"	C30096006	C30097008	C30093000	C30095103	C30098008	C40012003	134#

NOTES:

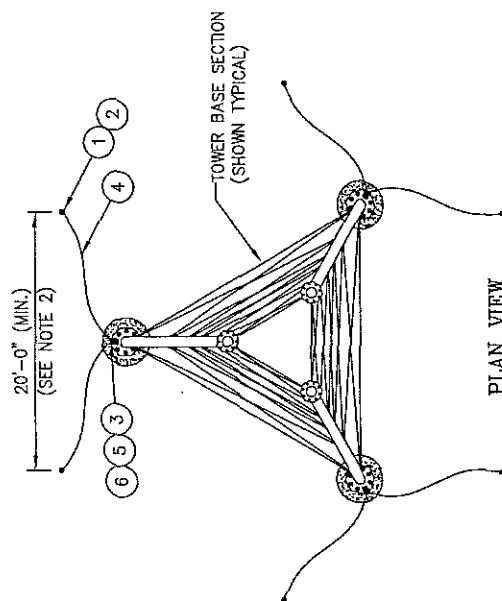
- LEG TYPE AND ANCHOR BOLT QUANTITY SHOWN TYPICAL. DRAWING CAN BE USED FOR ROUND OR ANGULAR LEGS.
- THERE SHALL BE A MINIMUM OF (6) GROUNDING ELECTRODES INSTALLED SYMMETRICALLY AROUND THE BASE OF THE STRUCTURE AT A MINIMUM 20 FT. SPACING.
- A MINIMUM OF (1) LEAD SHALL BE CONNECTED TO EACH LEG ON (4) LEG TOWERS.
- ALL BENDS IN GROUND WIRE TO BE WELL ROUNDED CURVES FREE OF KINKS, TWISTS, ETC.

EACH GROUNDING KIT FOR (3) LEG TOWERS CONSISTS OF:

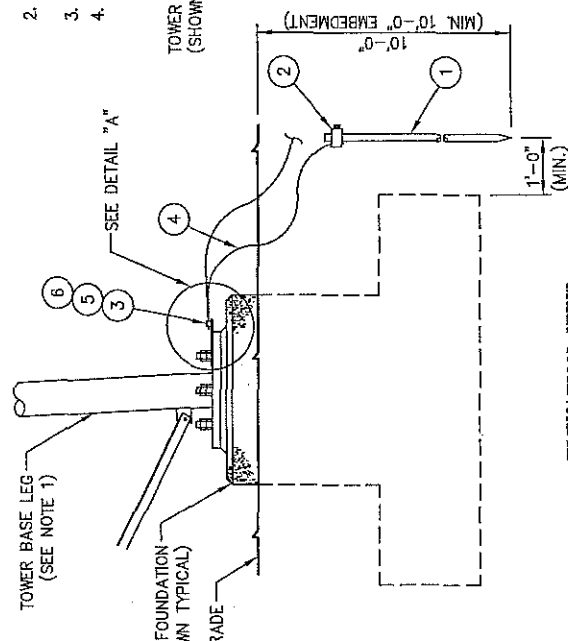
- (6) GROUND ROD 5/8 X 10'-0" GALV. STEEL
- (6) GROUND ROD CLAMP 5/8 (HARGER 302LGRG OR EQUAL)
- (3) GROUND LUG (BURNIDY K2A28U OR EQUAL)
- (6) 25 FT. RUN OF 2/0 STRANDED BARE COPPER WIRE
- (3) GROUNDING ATTACHMENT PLATE
- (3) BOLT ASSEMBLY 1/4 X 1 S.S.

EACH GROUNDING KIT FOR (4) LEG TOWERS CONSISTS OF:

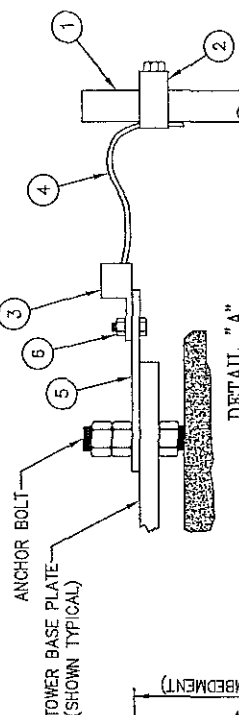
- (6) GROUND ROD 5/8 X 10'-0" GALV. STEEL
- (6) GROUND ROD CLAMP 5/8 (HARGER 302LGRG OR EQUAL)
- (4) GROUND LUG (BURNIDY K2A28U OR EQUAL)
- (6) 25 FT. RUN OF 2/0 STRANDED BARE COPPER WIRE
- (4) GROUNDING ATTACHMENT PLATE
- (4) BOLT ASSEMBLY 1/4 X 1 S.S.



PLAN VIEW



ELEVATION VIEW
(TYPICAL AT EACH LEG)



DETAIL "A"

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES		MATERIAL:
TOLERANCES: FRACTIONS: $\pm 1/16"$ DECIMALS: $\pm .010"$		TOLERANCES DO NOT APPLY TO RAW MATERIAL
REV	DATE	DESCRIPTION
1	7/2/05	REVISED PER 2 TWS C30093001 & C30093002
2	7/2/05	REVISED PER 2 TWS C30093001 & C30093002

Sabre Industries
Towers and Poles

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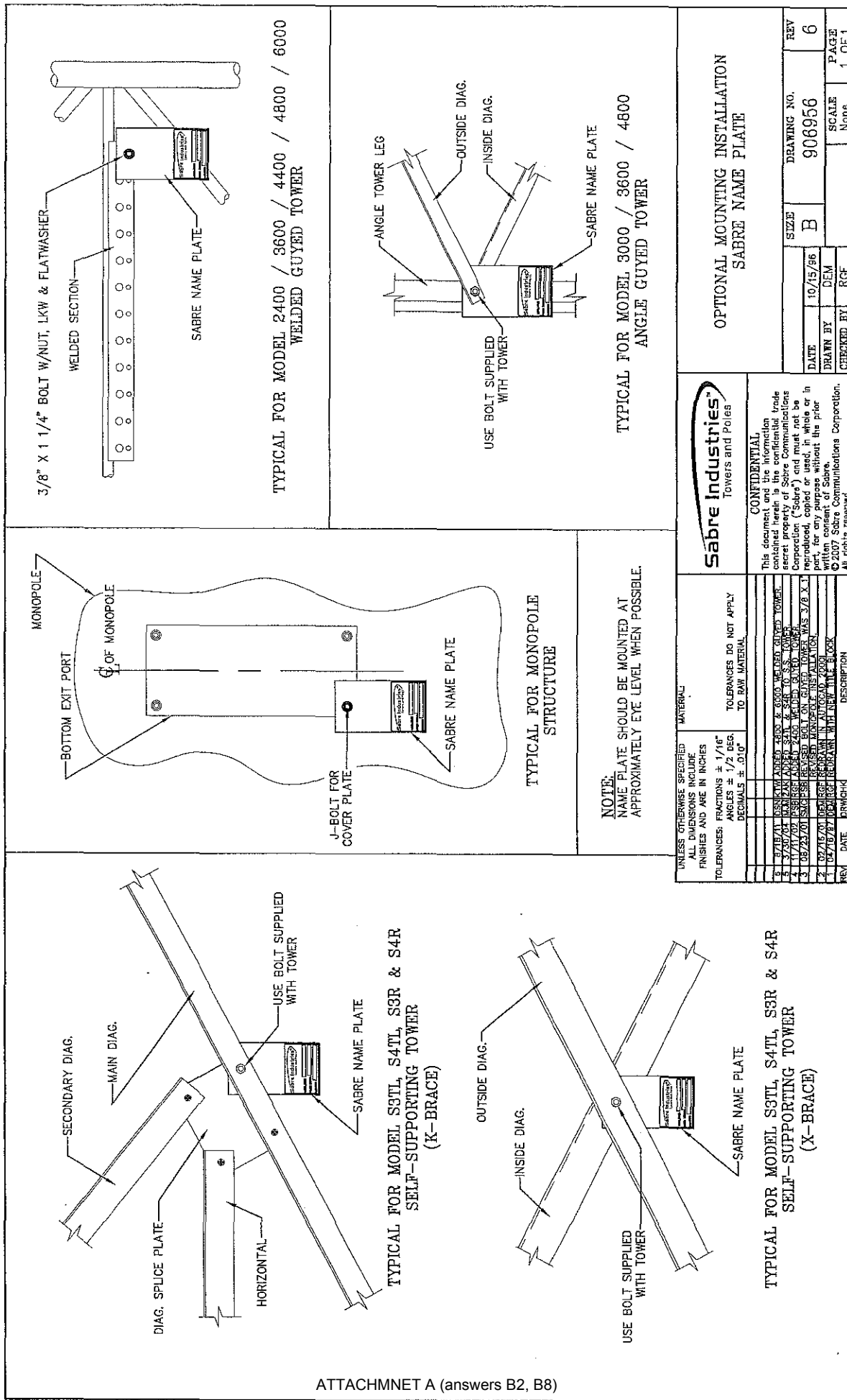
TOWER GROUNDING KITS
PER TIA-222-G SPECIFICATIONS
FOR SELF SUPPORTING TOWERS

DATE	12/07/05	SIZE	B	DRAWING NO.	C301511	REV	2
DRAWN BY	MLC	CHECKED BY	WMN	SCALE	None	PAGE	1 OF 1

BOLT INSTALLATION DETAILS:

1. INSTALLATION OF BOLTS: BOLTS FOR TOWERS AND ANTENNAS SHALL BE INSTALLED WITH THE NUTS FACING TO THE OUTSIDE AND/OR TO THE TOP OF THE TOWER, UNLESS PROHIBITED BY LACK OF CLEARANCE.
2. TIGHTENING OF BOLTS: ALL HIGH STRENGTH BOLTS SHALL BE TIGHTENED TO A SNUG-TIGHT CONDITION, AS DEFINED BY AISC.
3. NUT LOCKING DEVICE: ALL NUTS SHALL BE EQUIPPED WITH SOME TYPE OF NUT LOCKING DEVICE. SEE THE INDIVIDUAL DRAWINGS FOR THE TYPE OF NUT LOCKING DEVICE TO BE USED FOR EACH INDIVIDUAL APPLICATION.

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES		MATERIAL		 <p>Sabre Industries™ Towers and Poles</p> <p>CONFIDENTIAL This document and the information contained herein is the confidential trade secret property of Sabre Communications Corporation ("Sabre") and must not be reproduced, copied or used, in whole or in part, without the prior written consent of Sabre. © 2017 Sabre Communications Corporation. All rights reserved.</p>		BOLT INSTALLATION DETAILS	
TOLERANCES: FRACTIONS ± 1/16" ANGLES ± 1/2 DEG. DECIMALS ± .010"		TOLERANCES DO NOT APPLY TO RAW MATERIAL					
REV	DATE	DRW/CHK	DESCRIPTION				
3	02/15/2017	KJL/DLW	REVISED PER KJL INITIAL				
2	03/04/2017	PSB/ZAC	REWORK ON 10' 8" SIZE TOWER DOG				
1	03/06/2017	DKW/PSB	REWORK IN AUTOCAD 2009				
				DATE	01/28/20	SIZE	B
				DRAWN BY	MJM	DRAWING NO.	9014671
				CHECKED BY	KJT/DLW	SCALE	None
						PAGE	1 OF 1



ATTACHMNET A (answers B2, B8)

NOTICE

ALL PARTS ARE TO BE INVENTORIED AND ANY
SHORTAGES REPORTED WITHIN 48 HOURS OF DELIVERY
TO THE CONTRACTING ERECTOR.

SHORTAGES REPORTED AFTER THIS TIME PERIOD WILL
BE CHARGED TO THE CONTRACTOR.

CALL 712-258-6690

TO REACH THE SABRE CONTRACTS DEPARTMENT.

AVISO


Todas las partes serán inventariadas y los faltantes reportados
por el contratista dentro de las 48 horas a partir de la entrega.

Los faltantes reportados después de 48 horas serán cargados al contratista.

Para aclaraciones llame a:

Sabre-Departamento de Contrataciones

(001) 712 258-6690

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES TOLERANCES: FRACTIONS $\pm 1/16"$ ANGLES $\pm 1/2$ DEG. DECIMALS $\pm .010"$		MATERIAL:		 <p>Sabre Industries™ Towers and Poles</p>		INVENTORY REQUIREMENT SHEET							
TOLERANCES DO NOT APPLY TO RAW MATERIAL				<p>CONFIDENTIAL</p> <p>This document and the information contained herein is the confidential trade secret property of Sabre Communications Corporation ("Sabre") and must not be reproduced, copied, in whole or in part, or otherwise disseminated without the prior written consent of Sabre. © 2008 Sabre Communications Corporation. All rights reserved.</p>		DATE	05/12/97	SIZE	B	DRAWING NO.	907901	REV	3
						DRAWN BY	ZAK			SCALE	None	PAGE	1 OF 1
						CHECKED BY	JD						

CUSTOMER NEW HORIZONS TELECOM INC				PC=PIECE OR=ORANGE PLT=PALLET WH=WHITE BDL=BUNDLE O/W=OR & WH CRT=CRATE N/R=NOT REQ'D D=DRUM SP=SPECIAL BX=BOX						
SITE DRB CTC, AK				PACKING						
B.O.M. 50 FT. MODEL S4TL SELF-SUPPORTING TOWER										
ITEM NO.	NO. REQ'D.	DRAWING NUMBER	REV	PART NO.	DESCRIPTION	TOTAL WEIGHT LBS.	PAINT	KIT	QTY. OF PKG'S.	PKG. NO.
1.					PRESHIP					
2.	16	C40041094	0	C40041094	ANCHOR BOLT ASSEMBLY, 1 1/4" x 4'-3" (F 1554 GRADE 105)	365				
3.					W/(5) NUTS 1 1/4" HEAVY HEX (A563 DH)					
4.					(2) FLATWASHERS 1 1/4" (F436)					
5.	8	C30139391	0	C30139391	PLATE, ANCHOR BOLT TEMPLATE 1 1/4" x 9 1/2" B.C.	78				
6.										
7.										
8.										
9.										
10.										
11.										
12.										
13.										
14.										
15.										
16.										
17.										
18.										
19.										
20.										

DATE	10/16/13	JOB NO.	91140
DRAWN BY	DPJ	PRINT NO.	BOM-1
CHECKED BY	DLKV	PAGE	1 OF 11

REV	DATE	DRW/CHK	DESCRIPTION

CUSTOMER NEW HORIZONS TELECOM INC				PC=PIECE OR=ORANGE PLT=PALLET WH=WHITE BDL=BUNDLE O/W=OR & WH CRT=CRATE N/R=NOT REQ'D D=DRUM SP=SPECIAL BX=BOX						
SITE DRB CTC, AK				PACKING						
B.O.M. 50 FT. MODEL S4TL SELF-SUPPORTING TOWER										
ITEM NO.	NO. REQ'D.	DRAWING NUMBER	REV	PART NO.	DESCRIPTION	TOTAL WEIGHT LBS.	PAINT	KIT	QTY. OF PKG'S.	PKG. NO.
1.					TOWER LEGS					
2.	4	07-T1170302	0	07-T1170302	SECT. 7 LEG 5 9/16" X .375 X 20'-0 5/16	2089	N/R			
3.	4	06-T1170304	0	06-T1170304	SECT. 6 LEG 4" X .318 X 20'-0 5/16	1501	N/R			
4.	4	06-T1170306	0	06-T1170306	SECT. 6 LEG 2 7/8" X .203 X 10'-2 5/16	504	N/R			
5.										
6.										
7.										
8.										
9.										
10.										
11.										
12.										
13.										
14.										
15.										
16.										
17.										
18.										
19.										
20.										

DATE	10/18/13	JOB NO.	91140
DRAWN BY	DPJ	PRINT NO.	BOM-1
CHECKED BY	DLK	PAGE	2 OF 11


REV	DATE	DRW/CHK	DESCRIPTION

CUSTOMER NEW HORIZONS TELECOM INC				PC=PIECE OR=ORANGE PLT=PALLET WH=WHITE BDL=BUNDLE O/W=OR & WH CRT=CRATE N/R=NOT REQ'D D=DRUM SP=SPECIAL BX=BOX						
SITE DRB CTC, AK										
B.O.M. 50 FT. MODEL S4TL SELF-SUPPORTING TOWER				PACKING						
ITEM NO.	NO. REQ'D.	DRAWING NUMBER	REV	PART NO.	DESCRIPTION	TOTAL WEIGHT LBS.	UNIT	KIT	QTY. OF PKG'S.	PKG. NO.
1.					TOWER BRACING					
2.	1 KIT				BRACING #07-T8200138 SECTION 07	1243				
3.					CONSISTING OF THE MATERIAL LISTED BELOW					
4.	8	TS00586	0	TS00586	ANGLE, DIAGONAL 2 1/2 X 2 1/2 X 5/16 X 7'-5 1/2	310	N/R			
5.	8	TS00587	0	TS00587	ANGLE, DIAGONAL 2 1/2 X 2 1/2 X 5/16 X 7'-0 13/16	294	N/R			
6.	8	TS00588	0	TS00588	ANGLE, DIAGONAL 2 1/2 X 2 1/2 X 5/16 X 6'-8 5/16	278	N/R			
7.	8	TS00589	0	TS00589	ANGLE, DIAGONAL 2 1/2 X 2 1/2 X 5/16 X 6'-3 15/16	263	N/R			
8.	4	TS06539	0	TS06539	ANGLE, HORIZONTAL 2 1/2 X 2 1/2 X 1/4 X 4'-4 3/8	74	N/R			
9.	1	TS07182	0	TS07182	ANGLE, INTERNAL BRACE 3 X 3 X 3/16 X 6'-2 1/8	24	N/R			
10.					SPLICE BOLTS TOP OF SECTION 07					
11.	17			C40026078	BOLT ASSEMBLY, 1 Ø X 4 1/4 A325	37				
12.	1 KIT				HARDWARE #TK00892 SECTION 07	71				
13.					CONSISTING OF THE MATERIAL LISTED BELOW					
14.	17			C40026045	BOLT ASSEMBLY, 3/4 Ø X 2 1/2 A325	13				
15.	76			C40026043	BOLT ASSEMBLY, 3/4 Ø X 2 A325	54				
16.	3			C40026042	BOLT ASSEMBLY, 3/4 Ø X 1 3/4 A325	2				
17.	17			C40047004	RINGFILL, 3/8 THICK - 3/4 Ø BOLT	2				
18.										
19.										
20.										

DATE	10/18/13	JOB NO.	91140
DRAWN BY	DPJ	PRINT NO.	BOM-1
CHECKED BY	DLK	PAGE	3 OF 11

CUSTOMER NEW HORIZONS TELECOM INC				PC=PIECE OR=ORANGE PLT=PALLET WH=WHITE						
SITE DRB CTC, AK				BDL=BUNDLE O/W=OR & WH CRT=CRATE N/R=NOT REQ'D						
B.O.M. 50 FT. MODEL S4TL SELF-SUPPORTING TOWER				D=DRUM SP=SPECIAL BX=BOX						
				PACKING						
ITEM NO.	NO. REQ'D.	DRAWING NUMBER	REV	PART NO.	DESCRIPTION	TOTAL WEIGHT LBS.	PAINT	KIT	QTY. OF PKG'S.	PKG. NO.
1.					TOWER BRACING CONT'D					
2.	1 KIT				BRACING #06-T8200139 SECTION 06-20	1608				
3.					CONSISTING OF THE MATERIAL LISTED BELOW					
4.	32	TS07183	0	TS07183	ANGLE, DIAGONAL 3 1/2 X 3 1/2 X 5/16 X 6'-2 13/16	1494	N/R			
5.	4	TS07184	0	TS07184	ANGLE, HORIZONTAL 3 X 3 X 1/4 X 4'-5 1/2	91	N/R			
6.	1	TS07185	0	TS07185	ANGLE, INTERNAL 3 X 3 X 3/16 X 6'-0 11/16	23	N/R			
7.					SPLICE BOLTS TOP OF SECTION 06-20					
8.	17			C40026078	BOLT ASSEMBLY, 1 Ø X 4 1/4 A325	37				
9.	1 KIT				HARDWARE #TK00915 SECTION 06-20	156				
10.					CONSISTING OF THE MATERIAL LISTED BELOW					
11.	17			C40026072	BOLT ASSEMBLY, 1 Ø X 2 3/4 A325	29				
12.	74			C40026071	BOLT ASSEMBLY, 1 Ø X 2 1/2 A325	121				
13.	3			C40026108	BOLT ASSEMBLY, 1 Ø X 2 1/4 A325	5				
14.	17			C40047007	RINGFILL, 3/8 THICK - 1" Ø BOLT	1				
15.										
16.										
17.										
18.										
19.										
20.										

DATE	10/18/13	JOB NO.	91140
DRAWN BY	DPJ	PRINT NO.	BOM-1
CHECKED BY	DLK	PAGE	4 OF 11

CUSTOMER NEW HORIZONS TELECOM INC										PC=PIECE OR=ORANGE PLT=PALLET WH=WHITE BOL=BUNDLE O/W=OR & WH CRT=CRATE N/R=NOT REQ'D D=DRUM SP=SPECIAL BX=BOX	
SITE DRB CTC, AK											
B.O.M. 50 FT. MODEL S4TL SELF-SUPPORTING TOWER											
										PACKING	
ITEM NO.	NO. REQ'D.	DRAWING NUMBER	REV	PART NO.	DESCRIPTION	TOTAL WEIGHT LBS.	PAINT	KIT	QTY. OF PKG'S.	PKG. NO.	
1.					TOWER BRACING CONT'D						
2.	1 KIT				BRACING #06--T8200140 SECTION 06--10	408					
3.					CONSISTING OF THE MATERIAL LISTED BELOW						
4.	8	TS07186	0	TS07186	ANGLE, DIAGONAL 2 X 2 X 1/4 X 6'-3 3/16	166	N/R				
5.	8	TS07187	0	TS07187	ANGLE, DIAGONAL 2 X 2 X 1/4 X 6'-3 3/16	166	N/R				
6.	4	TS07188	0	TS07188	ANGLE, HORIZONTAL 2 X 2 X 1/4 X 4'-6 1/8	60	N/R				
7.	1	TS07189	0	TS07189	ANGLE, INTERNAL 2 X 2 X 3/16 X 6'-4 5/8	16	N/R				
8.	1 KIT				HARDWARE #TK00916 SECTION 06--10	26					
9.					CONSISTING OF THE MATERIAL LISTED BELOW						
10.	9			C40026024	BOLT ASSEMBLY, 5/8 Ø X 2 1/4 A325	5					
11.	42			C40026023	BOLT ASSEMBLY, 5/8 Ø X 2 A325	19					
12.	3			C40026022	BOLT ASSEMBLY, 5/8 Ø X 1 3/4 A325	1					
13.	9			C40047003	RINGFILL, 3/8 THICK - 5/8 Ø BOLT	1					
14.											
15.											
16.											
17.											
18.											
19.											
20.											

DATE	10/18/13	JOB NO.	91140
DRAWN BY	DPJ	PRINT NO.	BOM-1
CHECKED BY	DLK	PAGE	5 OF 11

CUSTOMER NEW HORIZONS TELECOM INC				PC=PIECE OR=ORANGE PLT=PALLET WH=WHITE BDL=BUNDLE O/W=OR & WH CRT=CRATE N/R=NOT REQ'D D=DRUM SP=SPECIAL BX=BOX						
SITE DRB CTC, AK										
B.O.M. 50 FT. MODEL S4TL SELF-SUPPORTING TOWER				PACKING						
ITEM NO.	NO. REQ'D.	DRAWING NUMBER	REV	PART NO.	DESCRIPTION	TOTAL WEIGHT LBS.	PAINT	KIT	QTY. OF PKG'S.	PKG. NO.
1.					SAFETY CLIMB MATERIAL					
2.	1 KIT			C30188102	50' D.B.I. SAFETY CLIMB MATERIAL	50				
3.										
4.										
5.										
6.										
7.										
8.										
9.										
10.										
11.										
12.										
13.										
14.										
15.										
16.										
17.										
18.										
19.										
20.										

DATE	10/18/13	JOB NO.	91140
DRAWN BY	DPJ	PRINT NO.	BOM-1
CHECKED BY	DLK	PAGE	6 OF 11

REV	DATE	DRW/CHK	DESCRIPTION

CUSTOMER NEW HORIZONS TELECOM INC										PC=PIECE	OR=ORANGE
SITE DRB CTC, AK										PLT=PALLET	WH=WHITE
B.O.M. 50 FT. MODEL S4TL SELF-SUPPORTING TOWER										BOL=BUNDLE	O/W=OR & WH
										CRT=CRATE	N/R=NOT REQ'D
										D=DRUM	SP=SPECIAL
										BX=BOX	
										PACKING	
ITEM NO.	NO. REQ'D.	DRAWING NUMBER	REV	PART NO.	DESCRIPTION	TOTAL WEIGHT LBS.	PAINT	KIT	QTY. OF PKG'S.	PKG. NO.	
1.					CLIMBING LADDER (SEE DWG 91140-CL1)						
2.	2	CW00031	2	CW00031	WELDMENT, 20 FT. CLIMBING LADDER 12" WIDE	149	N/R				
3.	1	CW00029	2	CW00029	WELDMENT, 10 FT. CLIMBING LADDER 12" WIDE	37	N/R				
4.	6	CS00037	2	CS00037	PLATE, LADDER SPLICE	2	N/R				
5.	2	CS00242	1	CS00242	ANGLE, LADDER BASE SUPPORT	15	N/R				
6.	14	CS00169	2	CS00169	CLIP, LADDER ATTACHMENT	8	N/R				
7.											
8.					LADDER HARDWARE (SEE DWG 91140-CL1)						
9.	6			C40039002	J-BOLT ASSEMBLY, 3/8" X 7 1/4" I.L.	2					
10.	8			C40039001	J-BOLT ASSEMBLY, 3/8" X 5 3/4" I.L.	2					
11.	15			C40024004	BOLT ASSEMBLY, 3/8" X 1 1/2" GRD 5	2					
12.											
13.											
14.											
15.											
16.											
17.											
18.											
19.											
20.											

DATE	11/01/13	JOB NO.	91140
DRAWN BY	LRS	PRINT NO.	BOM-1
CHECKED BY	ZAK	PAGE	7 OF 11

REV	DATE	DRW/CHK	DESCRIPTION

CUSTOMER NEW HORIZONS TELECOM INC				PC=PIECE OR=ORANGE PLT=PALLET WH=WHITE BDL=BUNDLE O/W=OR & WH CRT=CRATE N/R=NOT REQ'D D=DRUM SP=SPECIAL BX=BOX						
SITE DRB CTC, AK										
B.O.M. 50 FT. MODEL S4TL SELF-SUPPORTING TOWER				PACKING						
ITEM NO.	NO. REQ'D.	DRAWING NUMBER	REV	PART NO.	DESCRIPTION	TOTAL WEIGHT LBS.	PAINT	KIT	QTY. OF PKG'S.	PKG. NO.
1.					WAVEGUIDE LADDER (SEE DWG 91140-WG1)					
2.	4	CS00146	2	CS00146	ANGLE, WAVEGUIDE LADDER RAIL 20 FT. W/4 FT. RUNG SPC	120	N/R			
3.	2	CS00148	2	CS00148	ANGLE, WAVEGUIDE LADDER RAIL 10 FT. W/4 FT. RUNG SPC	30	N/R			
4.	13	CS00151	2	CS00151	ANGLE, WAVEGUIDE SUPPORT (12 HOLE)	49	N/R			
5.	6	CS00037	2	CS00037	PLATE, LADDER SPLICE	2	N/R			
6.	14	CS00169	2	CS00169	CLIP, LADDER ATTACHMENT	8	N/R			
7.										
8.					LADDER HARDWARE (SEE DWG 91140-WG1)					
9.	6			C40039002	J-BOLT ASSEMBLY, 3/8 x 7 1/4 I.L.	2				
10.	8			C40039001	J-BOLT ASSEMBLY, 3/8 x 5 3/4 I.L.	2				
11.	40			C40024004	BOLT ASSEMBLY, 3/8 x 1 1/2 GRD 5	4				
12.										
13.										
14.										
15.										
16.										
17.										
18.										
19.										
20.										


DATE	11/01/13	JOB NO.	91140
DRAWN BY	LRS	PRINT NO.	BOM-1
CHECKED BY	ZAK	PAGE	8 OF 11

REV	DATE	DRW/CHK	DESCRIPTION

CUSTOMER NEW HORIZONS TELECOM INC SITE DRB CTC, AK B.O.M. 50 FT. MODEL S4TL SELF-SUPPORTING TOWER										PC=PIECE OR=ORANGE PLT=PALLET WH=WHITE BDL=BUNDLE O/W=OR & WH CRT=CRATE N/R=NOT REQ'D D=DRUM SP=SPECIAL BX=BOX	
										PACKING	
ITEM NO.	NO. REQ'D.	DRAWING NUMBER	REV	PART NO.	DESCRIPTION	TOTAL WEIGHT LBS.	PAINT	KIT	QTY. OF PKG'S.	PKG. NO.	
1.					WAVEGUIDE LADDER (SEE DWG 91140-WG2)						
2.	4	CS00146	2	CS00146	ANGLE, WAVEGUIDE LADDER RAIL 20 FT. W/4 FT. RUNG SPC	120	N/R				
3.	2	CS00148	2	CS00148	ANGLE, WAVEGUIDE LADDER RAIL 10 FT. W/4 FT. RUNG SPC	30	N/R				
4.	13	CS00151	2	CS00151	ANGLE, WAVEGUIDE SUPPORT (12 HOLE)	49	N/R				
5.	6	CS00037	2	CS00037	PLATE, LADDER SPLICE	2	N/R				
6.	14	CS00169	2	CS00169	CLIP, LADDER ATTACHMENT	8	N/R				
7.											
8.					LADDER HARDWARE (SEE DWG 91140-WG2)						
9.	6			C40039002	J-BOLT ASSEMBLY, 3/8" X 7 1/4" I.L.	2					
10.	8			C40039001	J-BOLT ASSEMBLY, 3/8" X 5 3/4" I.L.	2					
11.	40			C40024004	BOLT ASSEMBLY, 3/8" X 1 1/2" GRD 5	4					
12.											
13.											
14.											
15.											
16.											
17.											
18.											
19.											
20.											

DATE	11/01/13	JOB NO.	91140
DRAWN BY	LRS	PRINT NO.	BOM-1
CHECKED BY	ZAK	PAGE	9 OF 11

REV	DATE	DRW/CHK	DESCRIPTION

 <p>Sabre Industries™ Towers and Poles</p>				<p>CUSTOMER NEW HORIZONS TELECOM INC</p> <p>SITE DRB CTC, AK</p> <p>B.O.M. 50 FT. MODEL S4TL SELF-SUPPORTING TOWER</p>				<p>PC=PIECE OR=ORANGE PLT=PALLET WH=WHITE BDL=BUNDLE O/W=OR & WH CRT=CRATE N/R=NOT REQ'D D=DRUM SP=SPECIAL BX=BOX</p>			
				PACKING							
ITEM NO.	NO. REQ'D.	DRAWING NUMBER	REV	PART NO.	DESCRIPTION	TOTAL WEIGHT LBS.	PAINT	KIT	QTY. OF PKG'S.	PKG. NO.	
1.					<u>LEG CAPS</u>						
2.	4	CS01499	0	CS01499	PLATE, LEG CAP	8	N/R				
3.											
4.					<u>GROUNDING</u>						
5.	1 KIT			C30151154	T.I.A. GROUNDING KIT, 4 TOWER LEGS (1 1/4" & 1 1/2" ANCHOR BOLT)	134					
6.											
7.											
8.											
9.											
10.											
11.											
12.											
13.											
14.											
15.											
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19.											
20.											

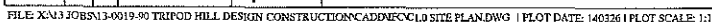
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DRAWN BY LRS		PRINT NO. BOM-1	
CHECKED BY ZAK		PAGE 10 OF 11	

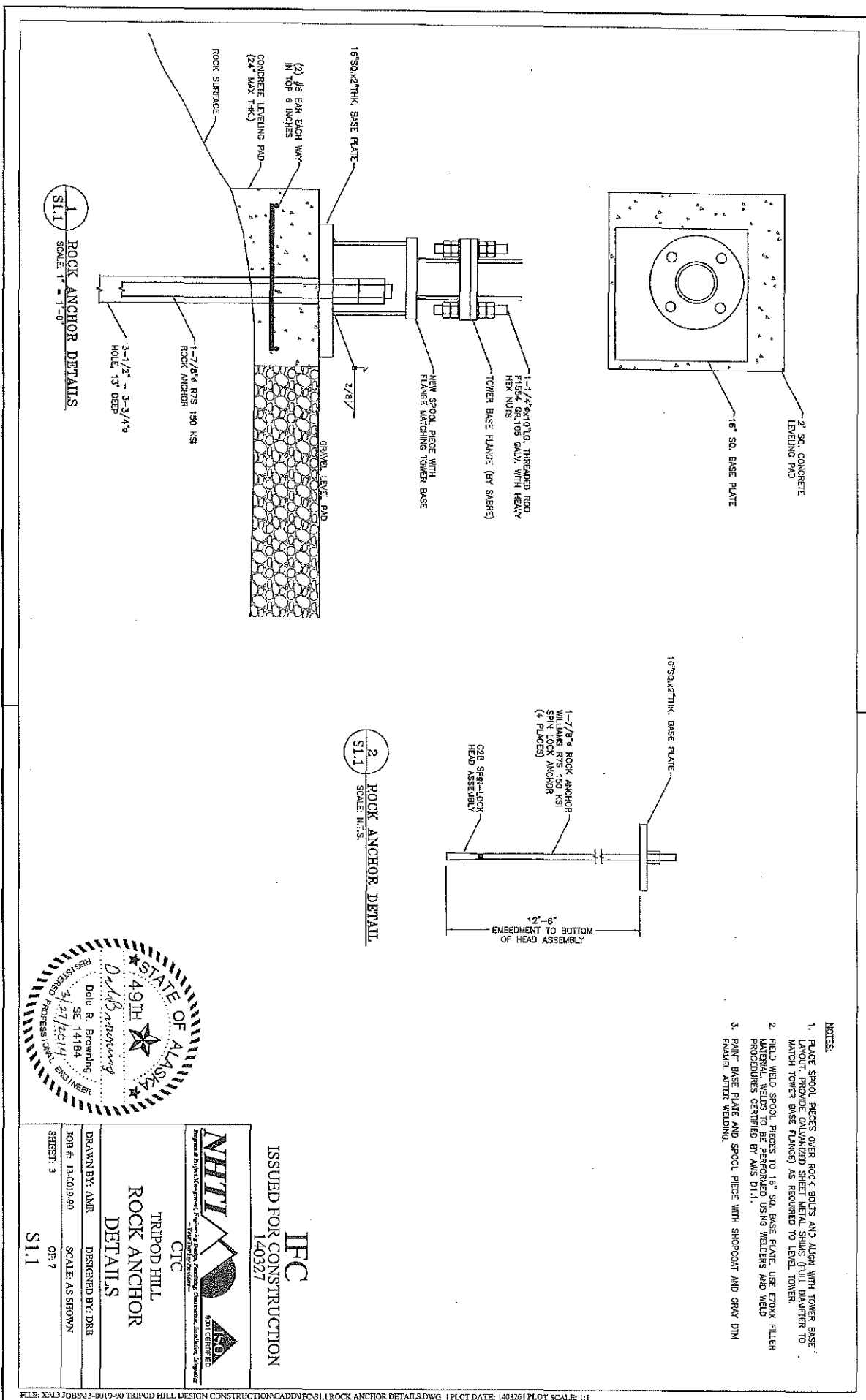
REV	DATE	DRW/CHK	DESCRIPTION

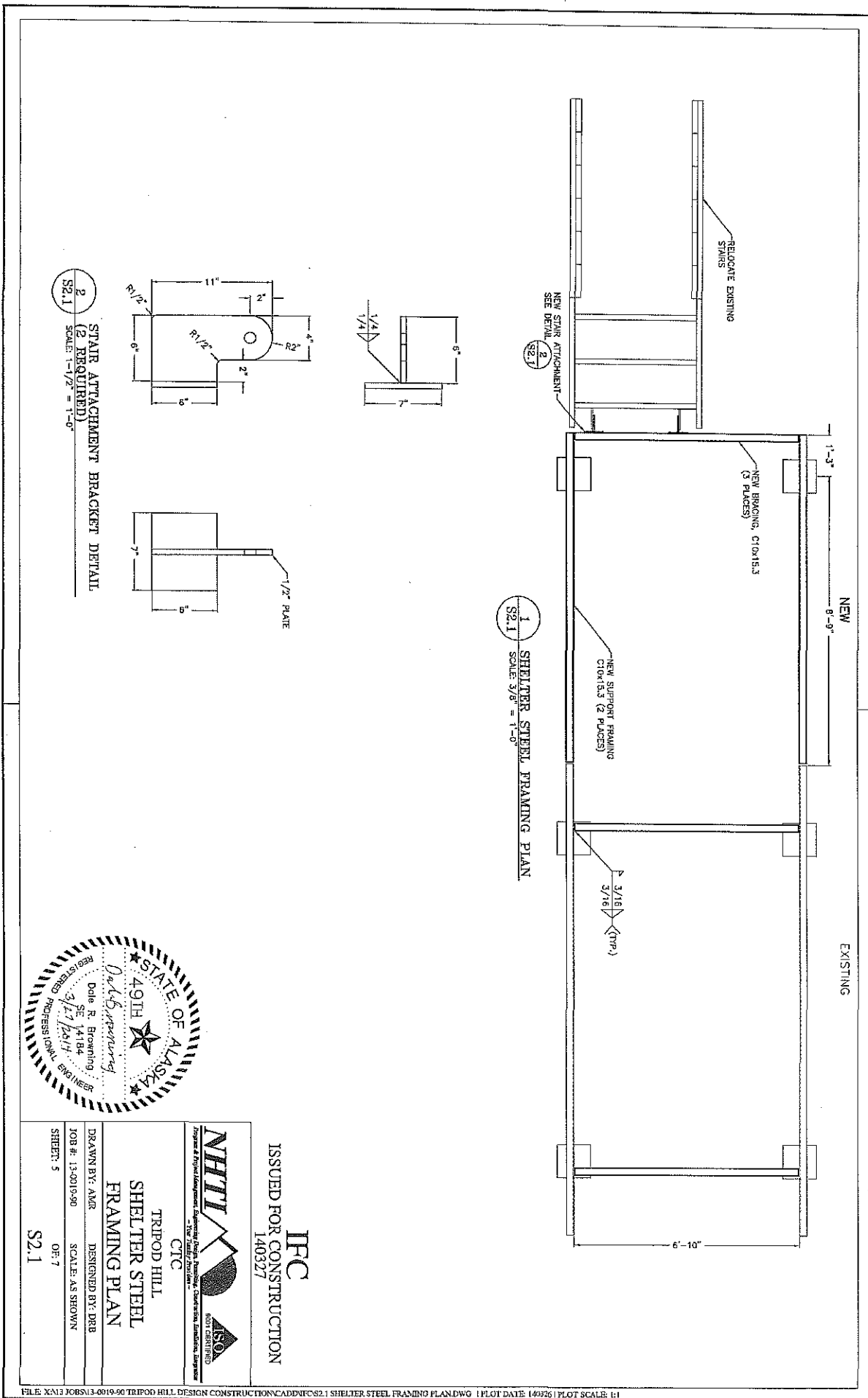
87 of 114

ATTACHMENT B

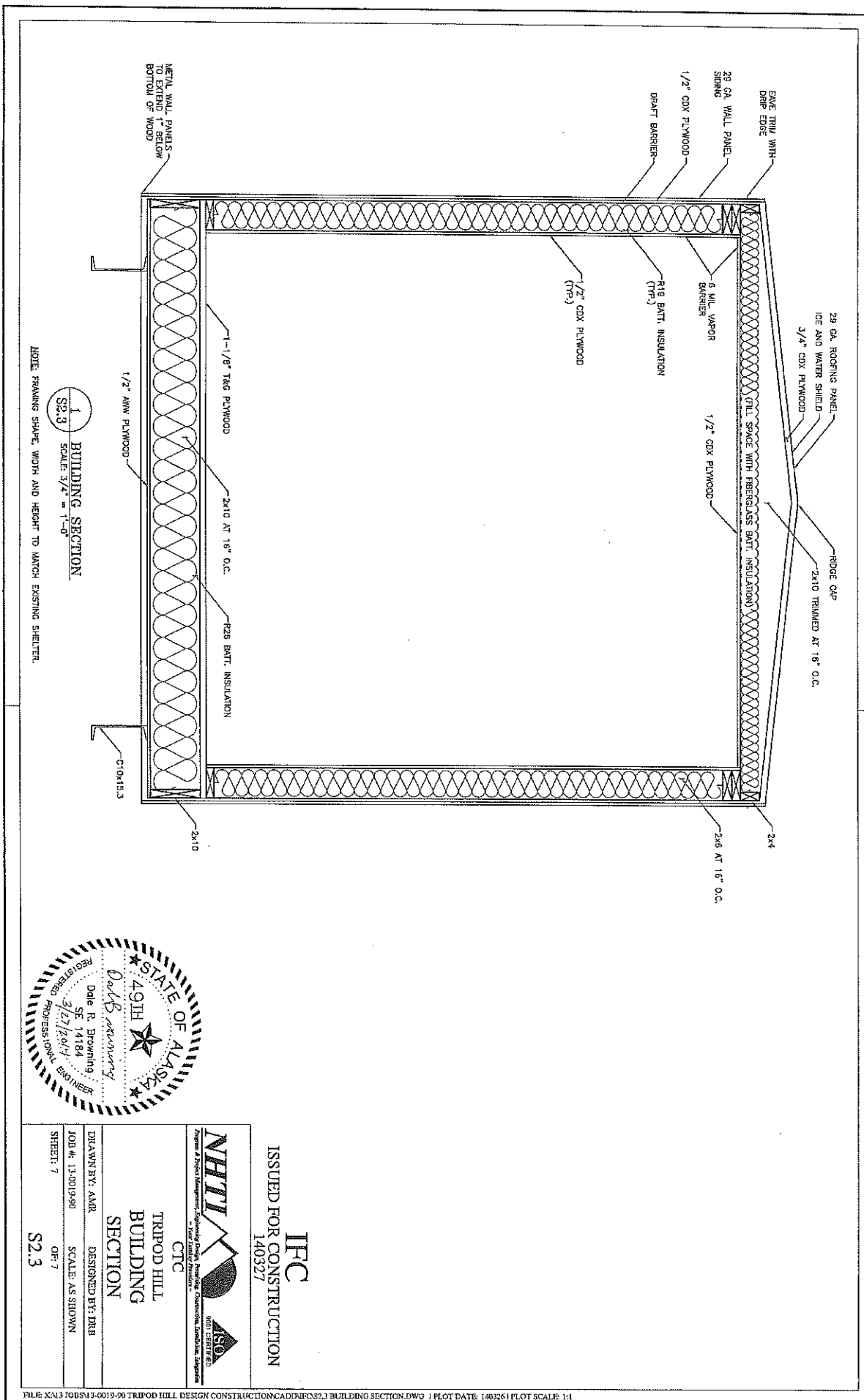
Building Site Plan







ATTACHMNET B (answers B-3)

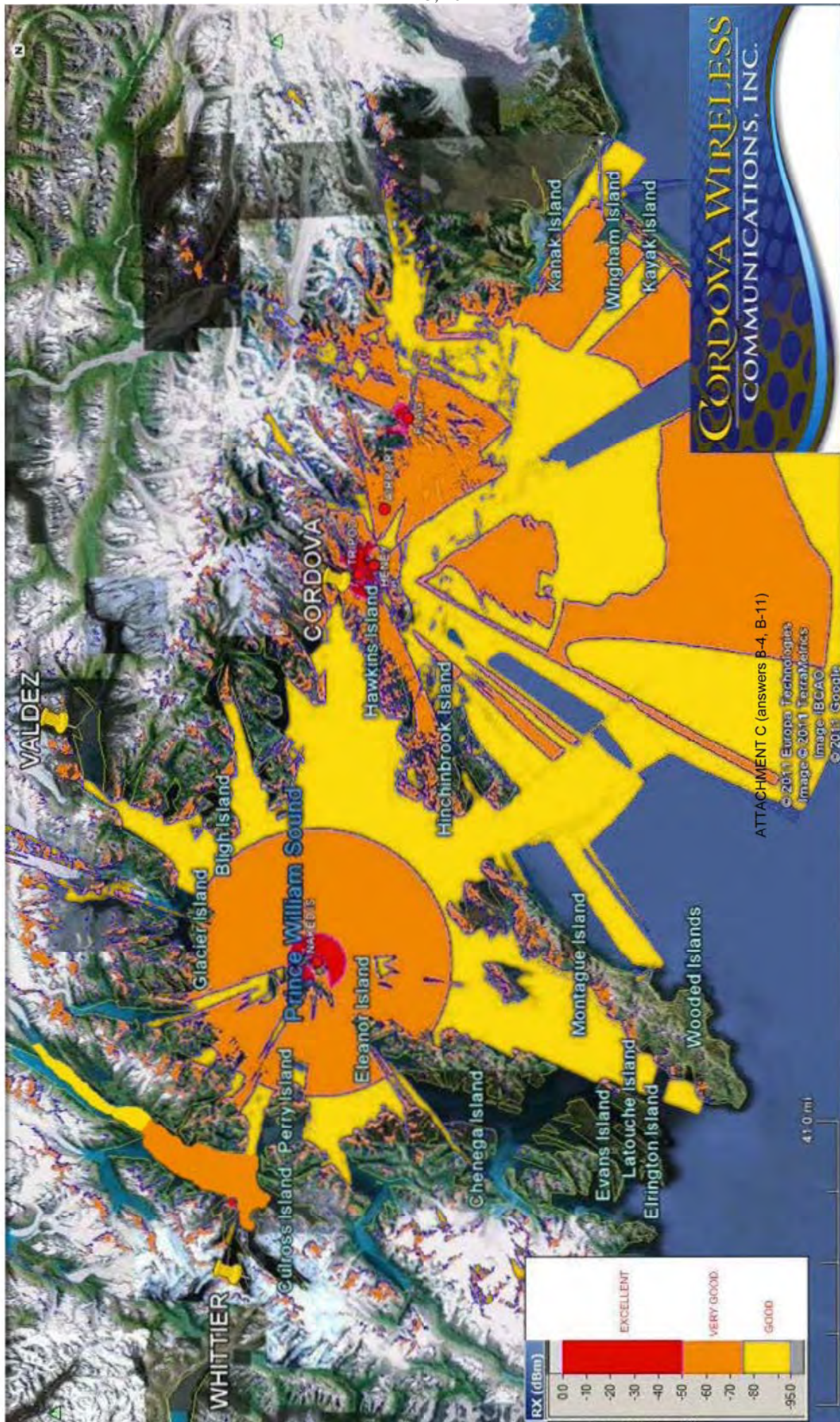


NHTI <small>Transportation & Technical Management, Engineering, Design, Planning, Construction, Land Use, Airports</small> <small>— Your Quality Partner —</small>	
CTC	DESIGNED BY: DMB
TRIPOD HILL BUILDING SECTION	SCALE: AS SHOWN
DRAWN BY: AMR	SHEET: 7
JOB #: 13-0019-90	DATE: 07-17
S2.3	

ISSUED FOR CONSTRUCTION
140327

ATTACHMENT C

Cell Coverage Map- detailing locations of existing towers



STRUCTURAL DESIGN REPORT

Prepared by Saber Towers and Poles

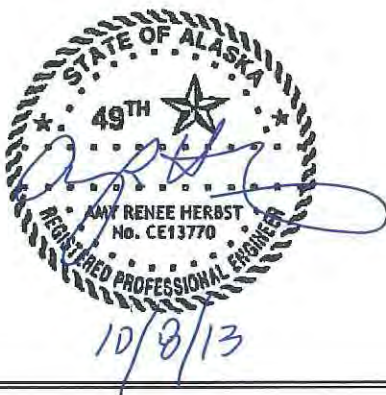


Structural Design Report
50' S4TL Self-Supporting Tower
Site: DRB CTC, AK

Prepared for: New Horizons Telecom Inc
by: Sabre Towers & Poles TM

Job Number: 91140
Revision A
October 8, 2013

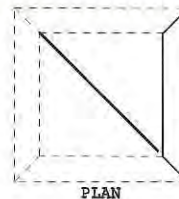
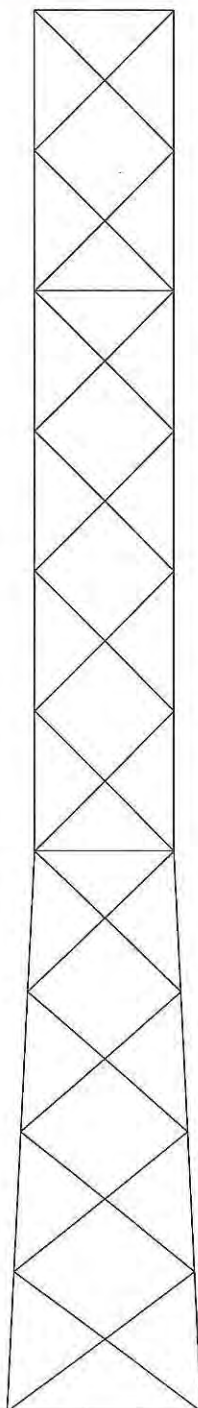
Tower Profile.....	1
Maximum Leg Loads.....	2
Maximum Diagonal Loads.....	3
Maximum Foundation Loads.....	4
Calculations.....	5-9



ENGINEER REPORT (answers B5)

DrawTower (c) Guymast Inc., 2012 Phone: (416) 736-7453

Leg	50 ksi	5.5625"x0.3750" PIPE	4.0000"x0.3180" PIPE	2.8750"x0.2030" PIPE	50.0'
Diagonal	36 ksi	L 2-1/2"x2-1/2"x5/16"	L 3-1/2"x3-1/2"x5/16"	L 2"x2"x1/4"	45.0'
Horizontal	36 ksi	L 2"x2"x1/4"	L 2"x2"x1/4"	L 2"x2"x1/4"	40.0'
Brace	A325X	A	A	B	35.0'
Brace Bolts		(1) 3/4"	(1) 1"	(1) 5/8"	30.0'
Face Width	7.0'	5.0'	5.0'	5.0'	25.0'
Panel Height # Panels		10 @ 5.0'			20.0'
					15.0'
					10.0'
					5.0'
					0.0'



NOTES:

1. The tower model is an S4TL.
2. Transmission lines are to be attached to standard 12 hole waveguide ladders.
3. Azimuths are relative (not based on true north).
4. Foundation loads shown are maximums.
5. (4) 1-1/4" dia. F1554 grade 105 anchor bolts per leg. Minimum 35" embedment from top of concrete to top of nut.
6. All unequal angles are oriented with the short leg vertical.
7. This tower was designed for Structure Class II, Exposure Category C and Topographic Category 3, with a Crest Height of 1273'.
8. The foundation loads shown below are factored loads.

ANTENNA LIST

NO	ELEV	ANTENNA	TX-LINE
1	50'	(1) Lightning Rod (Optional)	
2	50'	(1) 6' Solid Dish	(4) 1 1/4
3	50'	(1) 6' Solid Dish	(4) 1 1/4
4	50'	(1) 6' Solid Dish	(4) 1 1/4
5	50'	(1) 6' Solid Dish	(4) 1 1/4
6	30'	(1) 8' Solid Dish	(1) 1 1/4
7	30'	(1) 8' Solid Dish	(1) 1 1/4
8	30'	(1) 6' Solid Dish	(1) 1 1/4
9	30'	(1) 6' Solid Dish	(1) 1 1/4

MATERIAL LIST

NO	TYPE
A	L 3"x3"x3/16"
B	L 2"x2"x3/16"

TOTAL FOUNDATION LOADS

H=59.63 k
V=27.89 k
M=1915.24 k-ft
T=-78.51 k-ft

INDIVIDUAL FOOTING LOADS

H=20.52 k
V=196.10 k
U=-191.14 k



Sabre Communications Corporation

2101 Murray Street (P.O. Box 658), Sioux City, Iowa 51102-0658

Phone: (712) 258-6690

Fax: (712) 258-8250

Client: NEW HORIZONS TELECOM INC

Job No: 91140

Date: 8 oct 2013

Location: DRB CTC, AK

Total Height: 50.00'

Tower Height: 50.00'

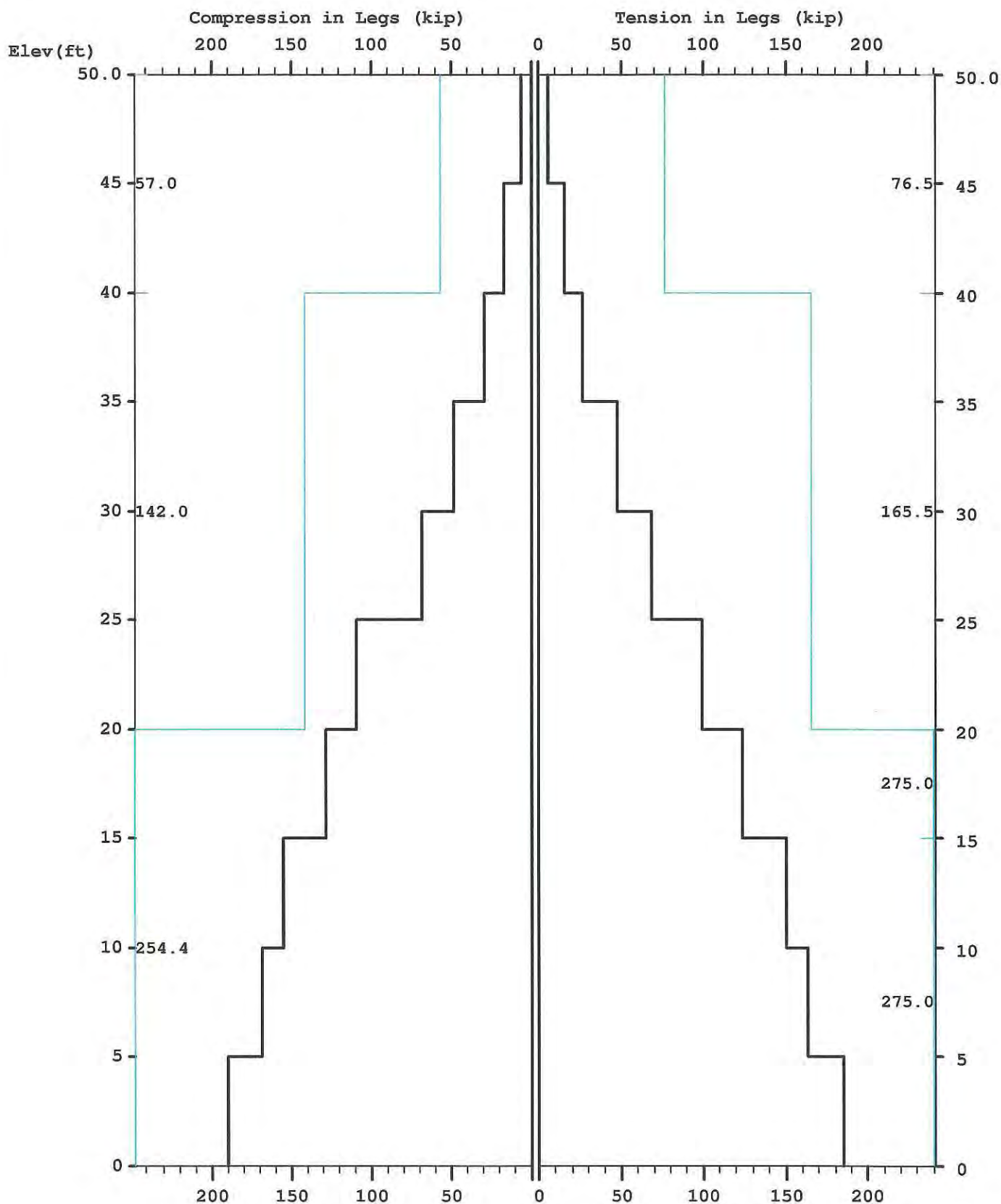
Standard: TIA 222-G

Design Wind & Ice: 130mph 0" ice & 60mph 0.5" ice

DrawResults Copyright (C) Guymast Inc. 2010 Phone: (416) 736-745
Licensed to: Sabre Communications Corporation

4 oct 2013
12:04:48

50' S3TL / DRB CTC
Maximum



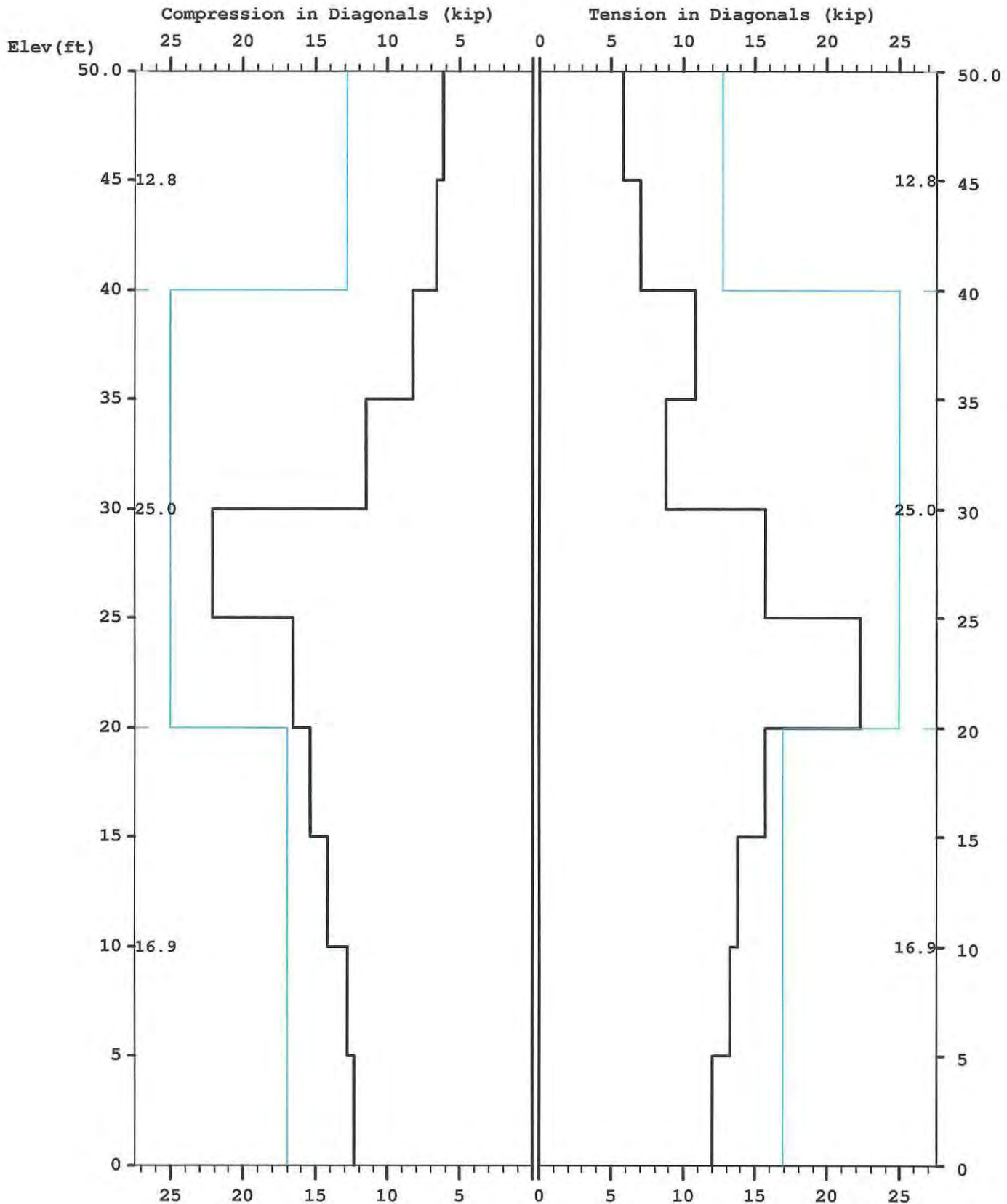
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4 oct 2013

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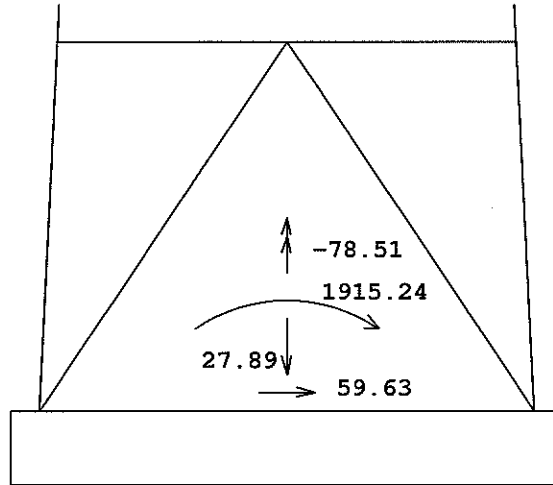
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50' S3TL / DRB CTC
Maximum

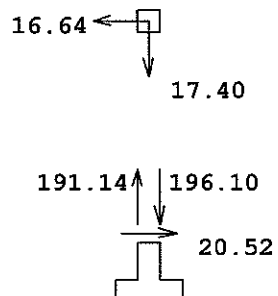


50' S3TL / DRB CTC
Maximum

TOTAL FOUNDATION LOADS (kip, ft-kip)



INDIVIDUAL FOOTING LOADS (kip)



91140A.txt

MAST G- Latticed Tower Analysis (Unguyed) (c)2011 Guymast Inc. 416-736-7453
Processed under license at:

Sabre Communications Corporation on: 4 oct 2013 at: 12:04:48

50' S3TL / DRB CTC

MAST GEOMETRY (ft)

PANEL TYPE	NO.OF LEGS	ELEV.AT BOTTOM	ELEV.AT TOP	F.W..AT BOTTOM	F.W..AT TOP	TYPICAL PANEL HEIGHT
X	4	45.00	50.00	5.00	5.00	5.00
X	4	40.00	45.00	5.00	5.00	5.00
X	4	35.00	40.00	5.00	5.00	5.00
X	4	20.00	35.00	5.00	5.00	5.00
X	4	15.00	20.00	5.50	5.00	5.00
X	4	0.00	15.00	7.00	5.50	5.00

MEMBER PROPERTIES

MEMBER TYPE	BOTTOM ELEV ft	TOP ELEV ft	X-SECTN AREA in.sq	RADIUS OF GYRAT in	ELASTIC MODULUS ksi	THERMAL EXPANSN /deg
LE	40.00	50.00	1.704	0.947	29000.	0.0000116
LE	20.00	40.00	3.678	0.947	29000.	0.0000116
LE	0.00	20.00	6.111	0.947	29000.	0.0000116
DI	40.00	50.00	0.938	0.609	29000.	0.0000116
DI	20.00	40.00	2.090	0.609	29000.	0.0000116
DI	0.00	20.00	1.465	0.609	29000.	0.0000116
HO	45.00	50.00	0.938	0.609	29000.	0.0000116
HO	35.00	40.00	0.938	0.609	29000.	0.0000116
HO	15.00	20.00	0.938	0.609	29000.	0.0000116
BR	45.00	50.00	0.715	0.617	29000.	0.0000116
BR	35.00	40.00	1.090	0.617	29000.	0.0000116
BR	15.00	20.00	1.090	0.617	29000.	0.0000116

FACTORED MEMBER RESISTANCES

BOTTOM ELEV ft	TOP ELEV ft	LEGS		DIAGONALS		HORIZONTALS		INT	BRACING
		COMP kip	TENS kip	COMP kip	TENS kip	COMP kip	TENS kip	COMP kip	TENS kip
45.0	50.0	57.04	76.50	12.78	12.78	10.95	10.95	3.50	3.50
40.0	45.0	57.04	76.50	12.78	12.78	0.00	0.00	0.00	0.00
35.0	40.0	141.99	165.53	25.00	25.00	10.95	10.95	3.50	3.50
20.0	35.0	141.99	165.53	25.00	25.00	0.00	0.00	0.00	0.00
15.0	20.0	254.44	275.00	16.94	16.94	10.95	10.95	3.50	3.50
0.0	15.0	254.44	275.01	16.94	16.94	0.00	0.00	0.00	0.00

*8 wind directions were analyzed. Three conditions are shown in full.

LOADING CONDITION A

130 mph wind with no ice. wind Azimuth: 0°

MAST LOADING

LOAD TYPE	ELEV ft	APPLY..LOAD..AT RADIUS ft	AZI	LOAD AZIFORCES.....	MOMENTS.....	
					HORIZ kip	DOWN kip	VERTICAL ft-kip	TORSNAL ft-kip
C	50.0	0.00	0.0	0.0	0.15	0.18	0.00	0.00
D	50.0	0.00	22.3	0.0	0.59	0.13	0.02	0.02
D	45.0	0.00	22.3	0.0	0.59	0.13	0.02	0.02
D	45.0	0.00	22.3	0.0	0.53	0.10	0.02	0.02
D	40.0	0.00	22.3	0.0	0.53	0.10	0.02	0.02
D	40.0	0.00	22.3	0.0	0.66	0.22	0.02	0.02
D	35.0	0.00	22.3	0.0	0.66	0.22	0.02	0.02

91140A.txt

D	35.0	0.00	22.3	0.0	0.60	0.19	0.02	0.02
D	30.0	0.00	22.3	0.0	0.60	0.19	0.02	0.02
D	30.0	0.00	33.6	0.0	0.59	0.19	0.02	0.04
D	20.0	0.00	33.6	0.0	0.59	0.19	0.02	0.05
D	20.0	0.00	33.6	0.0	0.58	0.23	0.02	0.04
D	15.0	0.00	33.6	0.0	0.58	0.23	0.02	0.04
D	15.0	0.00	33.5	0.0	0.53	0.21	0.02	0.03
D	0.0	0.00	33.4	0.0	0.56	0.21	0.02	0.02

ANTENNA LOADING

.....ANTENNA.....	ATTACHMENTANTENNA FORCES.....						
TYPE	ELEV	AZI	RAD	AZI	AXIAL	SHEAR	GRAVITY	TORSION
	ft		ft		kip	kip	kip	ft-kip
STD	50.0	180.0	5.0	225.0	-3.62	0.00	0.20	0.00
STD	50.0	90.0	5.0	135.0	-0.04	-1.18	0.20	-2.70
STD	50.0	0.0	5.0	45.0	5.32	0.00	0.20	0.00
STD	50.0	270.0	5.0	315.0	-0.04	1.18	0.20	2.70
STD	30.0	90.0	5.0	135.0	-0.04	-1.08	0.20	-2.48
STD	30.0	180.0	5.0	225.0	-5.90	0.00	0.32	0.00
STD	30.0	0.0	5.0	45.0	8.68	0.00	0.32	0.00
STD	30.0	270.0	5.0	315.0	-0.04	1.08	0.20	2.48

SUPPRESS PRINTING

LOADS	...FOR THIS LOADING...MAXIMUMS.....						
INPUT	DISPL	MEMBER	FOUNDN	ALL	DISPL	MEMBER	FOUNDN	
		FORCES	LOADS			FORCES	LOADS	
no	yes	yes	yes	no	no	no	no	

LOADING CONDITION I

130 mph wind with no ice. wind Azimuth: 0°

MAST LOADING

LOAD	ELEV	APPLY..LOAD..AT	LOADFORCES.....MOMENTS.....			
TYPE	ft	RADIUS	AZI	AZI	HORIZ	DOWN	VERTICAL	TORSNAL
		ft			kip	kip	ft-kip	ft-kip
C	50.0	0.00	0.0	0.0	0.15	0.14	0.00	0.00
D	50.0	0.00	22.3	0.0	0.59	0.09	0.02	0.02
D	45.0	0.00	22.3	0.0	0.59	0.09	0.02	0.02
D	45.0	0.00	22.3	0.0	0.53	0.08	0.02	0.02
D	40.0	0.00	22.3	0.0	0.53	0.08	0.02	0.02
D	40.0	0.00	22.3	0.0	0.66	0.16	0.02	0.02
D	35.0	0.00	22.3	0.0	0.66	0.16	0.02	0.02
D	35.0	0.00	22.3	0.0	0.60	0.14	0.02	0.02
D	30.0	0.00	22.3	0.0	0.60	0.14	0.02	0.02
D	30.0	0.00	33.6	0.0	0.59	0.14	0.02	0.04
D	20.0	0.00	33.6	0.0	0.59	0.14	0.02	0.05
D	20.0	0.00	33.6	0.0	0.58	0.17	0.02	0.04
D	15.0	0.00	33.6	0.0	0.58	0.17	0.02	0.04
D	15.0	0.00	33.5	0.0	0.53	0.16	0.02	0.03
D	0.0	0.00	33.4	0.0	0.56	0.16	0.01	0.02

ANTENNA LOADING

.....ANTENNA.....	ATTACHMENTANTENNA FORCES.....						
TYPE	ELEV	AZI	RAD	AZI	AXIAL	SHEAR	GRAVITY	TORSION
	ft		ft		kip	kip	kip	ft-kip
STD	50.0	180.0	5.0	225.0	-3.62	0.00	0.15	0.00
STD	50.0	90.0	5.0	135.0	-0.04	-1.18	0.15	-2.70
STD	50.0	0.0	5.0	45.0	5.32	0.00	0.15	0.00
STD	50.0	270.0	5.0	315.0	-0.04	1.18	0.15	2.70
STD	30.0	90.0	5.0	135.0	-0.04	-1.08	0.15	-2.48
STD	30.0	180.0	5.0	225.0	-5.90	0.00	0.24	0.00
STD	30.0	0.0	5.0	45.0	8.68	0.00	0.24	0.00
STD	30.0	270.0	5.0	315.0	-0.04	1.08	0.15	2.48

SUPPRESS PRINTING

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=====

LOADS INPUT	...FOR THIS LOADING..		MAXIMUMS.....			
	DISPL	MEMBER FORCES	FOUNDN LOADS	ALL	DISPL	MEMBER FORCES	FOUNDN LOADS
no	yes	yes	yes	no	no	no	no

=====

LOADING CONDITION Q

60 mph wind with 0.5 ice. Wind Azimuth: 0°

MAST LOADING

=====

LOAD TYPE	ELEV ft	APPLY.. RADIUS ft	LOAD..AT AZI	LOAD AZIFORCES.....	MOMENTS.....	
					HORIZ kip	DOWN kip	VERTICAL ft-kip	TORSNAL ft-kip
C	50.0	0.00	0.0	0.0	0.09	0.46	0.00	0.00
D	50.0	0.00	18.6	0.0	0.14	0.36	0.10	0.01
D	45.0	0.00	18.6	0.0	0.14	0.36	0.10	0.01
D	45.0	0.00	18.6	0.0	0.13	0.29	0.10	0.01
D	40.0	0.00	18.6	0.0	0.13	0.29	0.10	0.01
D	40.0	0.00	18.5	0.0	0.14	0.49	0.10	0.01
D	35.0	0.00	18.5	0.0	0.14	0.49	0.10	0.01
D	35.0	0.00	18.6	0.0	0.13	0.41	0.10	0.01
D	30.0	0.00	18.6	0.0	0.13	0.41	0.10	0.01
D	30.0	0.00	31.8	0.0	0.13	0.42	0.10	0.01
D	20.0	0.00	31.8	0.0	0.13	0.42	0.10	0.01
D	20.0	0.00	31.5	0.0	0.13	0.50	0.10	0.01
D	15.0	0.00	31.5	0.0	0.13	0.50	0.10	0.01
D	15.0	0.00	31.0	0.0	0.13	0.45	0.10	0.01
D	10.0	0.00	31.0	0.0	0.13	0.45	0.10	0.01
D	10.0	0.00	30.4	0.0	0.14	0.47	0.10	0.01
D	0.0	0.00	29.8	0.0	0.15	0.49	0.10	0.00

ANTENNA LOADING

=====

.....ANTENNA..... TYPE	ELEV ft	AZI	ATTACHMENT	ANTENNA FORCES.....			
			RAD ft	AZI	AXIAL kip	SHEAR kip	GRAVITY kip	TORSION ft-kip
STD	50.0	180.0	5.0	225.0	-0.52	0.00	0.64	0.00
STD	50.0	90.0	5.0	135.0	-0.01	-0.17	0.64	-0.40
STD	50.0	0.0	5.0	45.0	0.76	0.00	0.64	0.00
STD	50.0	270.0	5.0	315.0	-0.01	0.17	0.64	0.40
STD	30.0	90.0	5.0	135.0	0.00	-0.16	0.62	-0.37
STD	30.0	180.0	5.0	225.0	-0.83	0.00	1.07	0.00
STD	30.0	0.0	5.0	45.0	1.22	0.00	1.07	0.00
STD	30.0	270.0	5.0	315.0	0.00	0.16	0.62	0.37

SUPPRESS PRINTING

=====

LOADS INPUT	...FOR THIS LOADING..		MAXIMUMS.....			
	DISPL	MEMBER FORCES	FOUNDN LOADS	ALL	DISPL	MEMBER FORCES	FOUNDN LOADS
no	yes	yes	yes	no	no	no	no

=====

MAXIMUM MAST DISPLACEMENTS:

=====

ELEV ft	-----DEFLECTIONS (ft)-----			--TILTS (DEG)--		TWIST DEG
	NORTH	EAST	DOWN	NORTH	EAST	
50.0	-0.242 A	0.211 G	0.002 R	-0.417 A	0.370 G	-0.169 J
45.0	-0.205 A	0.178 G	0.001 R	-0.409 A	0.362 G	-0.153 J
40.0	-0.168 A	0.145 G	0.001 R	-0.386 A	0.340 G	-0.136 B
35.0	-0.134 A	0.115 G	0.001 Q	-0.367 A	0.321 G	-0.128 B

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30.0	-0.102 A	0.087 G	0.001 R	-0.334 A	0.291 G	-0.120 J
25.0	-0.073 A	0.062 G	0.001 X	-0.288 A	0.249 G	-0.100 J
20.0	-0.048 A	0.041 G	0.001 X	-0.215 A	0.185 G	-0.080 J
15.0	-0.029 A	0.025 G	0.000 W	-0.164 A	0.141 G	-0.054 J
10.0	-0.015 A	0.012 G	0.000 X	-0.115 A	0.098 G	-0.033 B
5.0	-0.005 A	0.004 G	0.000 X	-0.056 A	0.047 G	-0.015 J
0.0	0.000 A	0.000 A	0.000 A	0.000 A	0.000 A	0.000 A

MAXIMUM ANTENNA AND REFLECTOR ROTATIONS:

ELEV ft	AZI deg	TYPE *	PITCH	BEAM YAW	DEFLECTIONS (deg) ROLL	TOTAL
50.0	180.0	STD	0.370 G	0.168 J	-0.417 A	0.371 C
50.0	90.0	STD	0.417 A	0.169 J	0.370 G	0.419 E
50.0	0.0	STD	-0.370 G	0.168 J	0.417 A	0.371 C
50.0	270.0	STD	-0.417 A	0.169 J	-0.370 G	0.419 E
30.0	90.0	STD	0.334 A	0.120 J	0.291 G	0.335 E
30.0	180.0	STD	0.291 G	0.119 J	-0.334 A	0.292 C
30.0	0.0	STD	-0.291 G	0.119 J	0.334 A	0.292 C
30.0	270.0	STD	-0.334 A	0.120 J	-0.291 G	0.335 E

MAXIMUM TENSION IN MAST MEMBERS (kip)

ELEV ft	LEGS	DIAG	HORIZ	BRACE
50.0	-----	-----	2.02 N	0.18 M
	5.41 J	5.82 B		
45.0	-----	-----	0.05 E	0.00 X
	15.46 N	7.02 B		
40.0	-----	-----	1.90 F	0.05 A
	27.04 L	10.78 J		
35.0	-----	-----	0.47 D	0.00 H
	48.09 N	8.74 A		
30.0	-----	-----	0.23 P	0.00 P
	68.70 N	15.71 I		
25.0	-----	-----	0.49 A	0.00 H
	99.32 N	22.31 D		
20.0	-----	-----	2.90 L	0.61 P
	123.37 N	15.69 J		
15.0	-----	-----	0.32 A	0.00 T
	150.24 N	13.79 B		
10.0	-----	-----	0.07 M	0.00 L
	163.72 J	13.17 J		
5.0	-----	-----	0.20 A	0.00 X
	185.04 J	11.97 B		
0.0	-----	-----	0.00 A	0.00 A

MAXIMUM COMPRESSION IN MAST MEMBERS (kip)

ELEV ft	LEGS	DIAG	HORIZ	BRACE
50.0	-----	-----	-2.64 B	-0.96 D
	-5.97 B	-6.14 J		
45.0	-----	-----	-0.05 I	0.00 A
	-16.63 B	-6.62 J		
40.0	-----	-----	-2.76 J	-0.49 P
	-29.32 H	-8.26 B		
35.0	-----	-----	-0.42 I	0.00 P
	-48.18 B	-11.48 J		
30.0	-----	-----	-0.37 H	0.00 H
	-68.38 B	-22.09 D		
25.0	-----	-----	-0.46 I	0.00 P
	-109.49 H	-16.63 I		
20.0	-----	-----	-3.72 H	-1.70 D
	-128.10 H	-15.35 B		
15.0	-----	-----	-0.31 I	0.00 L
	-154.87 H	-14.18 J		
10.0	-----	-----	-0.07 A	0.00 D
	-168.08 B	-12.84 B		
5.0	-----	-----	-0.20 I	0.00 L
	-190.03 F	-12.33 J		
0.0	-----	-----	0.00 A	0.00 A

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MAXIMUM INDIVIDUAL FOUNDATION LOADS: (kip)

```
=====
-----LOAD-----COMPONENTS-----
NORTH      EAST      DOWN      UPLIFT      TOTAL
-17.40 J    -16.64 B    196.10 F    -191.14 J    20.52 J
=====
```

MAXIMUM TOTAL LOADS ON FOUNDATION : (kip & kip-ft)

```
=====
-----HORIZONTAL-----      DOWN      -----OVERTURNING-----      TORSION
NORTH      EAST      TOTAL      NORTH      EAST      TOTAL
@ 222.3      @ 42.4
-57.1      47.6      59.6      27.9      -1810.0    1537.2    1915.2    -78.5
I          G          J          Q          A          G          F          B
=====
```

ATTACHMENT D

Evidence of Valid FCC license for use of telecommunications tower

REFERENCE COPY

This is not an official FCC license. It is a record of public information contained in the FCC's licensing database on the date that this reference copy was generated. In cases where FCC rules require the presentation, posting, or display of an FCC license, this document may not be used in place of an official FCC license.



**Federal Communications Commission
Wireless Telecommunications Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: CORDOVA WIRELESS COMMUNICATIONS, LLC

ATTN: PAUL KELLY
CORDOVA WIRELESS COMMUNICATIONS, LLC
621 2ND STREET
PO BOX 438
CORDOVA, AK 99574

Call Sign WPOL372	File Number
Radio Service CL - Cellular	
Market Numer CMA316	Channel Block A
Sub-Market Designator 0	

FCC Registration Number (FRN): 0004333589

Market Name Alaska 2 - Bethel				
Grant Date 11-15-2004	Effective Date 06-12-2013	Expiration Date 10-01-2014	Five Yr Build-Out Date	Print Date 07-31-2013

Site Information:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
1	60-33-10.0 N	145-43-57.0 W	347.2	11.3	

Address: TRIPOD HILL, 1.7 KILOMETERS NORTHEAST OF

City: CORDOVA **County:** **State:** AK **Construction Deadline:**

Antenna: 1 Azimuth (from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	122.500	-301.700	129.200	252.600	199.300	284.900	267.600	329.700
Transmitting ERP (watts)	12.620	1.520	3.720	41.790	182.420	372.450	282.530	87.310

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: CORDOVA WIRELESS COMMUNICATIONS,

Call Sign: WPOL372

File Number:

Print Date: 07-31-2013

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
2	60-31-29.0 N	145-41-43.0 W	644.0	7.0	

Address: 1.75 KILOMETERS EAST OF MT. ECCLES ON HENEY RIDGE

City: CORDOVA **County:** **State:** AK **Construction Deadline:**

Antenna: 1 Azimuth (from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	445.600	138.000	609.200	645.800	644.900	303.500	583.600	616.000
Transmitting ERP (watts)	204.000	204.000	204.000	204.000	204.000	204.000	204.000	204.000

Control Points:

Waivers/Conditions:

THIS AUTHORIZATION IS SUBJECT TO THE CONDITION THAT, IN THE EVENT THAT CELLULAR SYSTEMS USING THE SAME FREQUENCY BLOCK AS GRANTED HEREIN ARE AUTHORIZED IN ADJACENT TERRITORY IN CANADA, COORDINATION OF ANY OF THE LICENSEE'S TRANSMITTER INSTALLATIONS WHICH ARE WITHIN 45 MILES OF THE U.S. CANADA BORDER SHALL BE REQUIRED TO ELIMINATE ANY HARMFUL INTERFERENCE THAT MIGHT OTHERWISE EXIST AND TO INSURE CONTINUANCE OF EQUAL ACCESS TO THE FREQUENCY BLOCK BY BOTH COUNTRIES.

This license is conditioned upon compliance with the provisions of Applications of AT&T Wireless Services, Inc. and Cingular Wireless Corporation For Consent to Transfer Control of Licenses and Authorizations, Memorandum Opinion and Order, FCC 04-255 (rel. Oct. 26, 2004).

Commission approval of this application and the licenses contained therein are subject to the conditions set forth in the Memorandum Opinion and Order, adopted on December 29, 2006 and released on March 26, 2007, and revised in the Order on Reconsideration, adopted and released on March 26, 2007. See AT&T Inc. and BellSouth Corporation Application for Transfer of Control, WC Docket No. 06-74, Memorandum Opinion and Order, FCC 06-189 (rel. Mar. 26, 2007); AT&T Inc. and BellSouth Corporation, WC Docket No. 06-74, Order on Reconsideration, FCC 07-44 (rel. Mar. 26, 2007).

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**Federal Communications Commission
Wireless Telecommunications Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: CORDOVA WIRELESS COMMUNICATIONS, LLC

ATTN: PAUL KELLY
CORDOVA WIRELESS COMMUNICATIONS, LLC
621 2ND STREET
PO BOX 438
CORDOVA, AK 99574

Call Sign WPOL372	File Number
Radio Service CL - Cellular	
Market Numer CMA316	Channel Block A
Sub-Market Designator 0	

FCC Registration Number (FRN): 0004333589

Market Name Alaska 2 - Bethel				
Grant Date 11-15-2004	Effective Date 06-12-2013	Expiration Date 10-01-2014	Five Yr Build-Out Date	Print Date 07-31-2013

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Antenna: 1 Azimuth (from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	445.600	138.000	609.200	645.800	644.900	303.500	583.600	616.000
Transmitting ERP (watts)	204.000	204.000	204.000	204.000	204.000	204.000	204.000	204.000

Control Points:

Waivers/Conditions:

THIS AUTHORIZATION IS SUBJECT TO THE CONDITION THAT, IN THE EVENT THAT CELLULAR SYSTEMS USING THE SAME FREQUENCY BLOCK AS GRANTED HEREIN ARE AUTHORIZED IN ADJACENT TERRITORY IN CANADA, COORDINATION OF ANY OF THE LICENSEE'S TRANSMITTER INSTALLATIONS WHICH ARE WITHIN 45 MILES OF THE U.S. CANADA BORDER SHALL BE REQUIRED TO ELIMINATE ANY HARMFUL INTERFERENCE THAT MIGHT OTHERWISE EXIST AND TO INSURE CONTINUANCE OF EQUAL ACCESS TO THE FREQUENCY BLOCK BY BOTH COUNTRIES.

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ATTACHMENT E

Written agreement to remove/ restore in vent of abandonment



Cordova Telephone Coop. Inc.
PO Box 459
Cordova, AK 99574

April 30, 2014

RE: Conditional Use Permit Application

Cordova Telephone Communications, Inc. does agree to remove the telecommunications tower located at Tripod hill and restore the site to its original condition within one hundred and eighty days should the telecommunications tower be unused for a period of twelve consecutive months.

If the tower is not removed in the time frame referenced above, the city may remove the telecommunications tower at the cost of Cordova Telephone Cooperative, Inc.

Paul Kelly
Signature

4-30-14
Date

State of Alaska

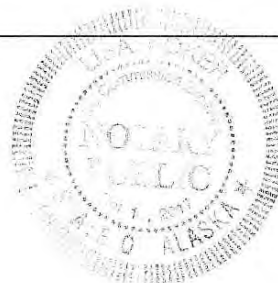
County of Valdez-Cordova

This instrument was signed before me on April 30, 2014

by Paul Kelly
Print name of signer(s)

Rosa Koser
Notary Signature

Affix seal/stamp as close to signature as possible.



May 2014						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1	2	3
4	5	6	7 City Council Regular Meeting Library Conference Room 7:30 PM	8	9	10
11 Mother's Day	12	13 P&Z Meeting Library Conference Room 6:30PM	14 Harbor Commission Meeting 7:00 PM City Hall	15	16	17
18	19	20	21 City Council Regular Meeting Library Conference Room 7:30 PM	22	23	24
25	26 Memorial Day City Closed	27	28	29	30	31

June 2014						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	2	3	4 City Council Regular Meeting Library Conference Room 7:30 PM	5	6	7
8	9	10 P&Z Meeting Library Conference Room 6:30PM	11 Harbor Commission Meeting 7:00 PM City Hall	12	13	14
15 Father's Day	16	17	18 City Council Regular Meeting Library Conference Room 7:30 PM	19	20	21
22	23	24	25	26	27	28
29	30					