



ALPINE CITY COUNCIL MEETING AGENDA

NOTICE is hereby given that the **CITY COUNCIL** of Alpine City, Utah will hold a meeting on **Tuesday, February 28, 2017 at 7:00 pm** at Alpine City Hall, 20 North Main, Alpine, Utah as follows:

I. CALL MEETING TO ORDER

- A. ***Roll Call:** Mayor Sheldon Wimmer
- B. **Prayer:** Lon Lott
- C. **Pledge of Allegiance:** By Invitation

II. PUBLIC COMMENT

III. CONSENT CALENDAR

- A. **Minutes of the February 14, 2017 City Council Meeting**

IV. REPORTS AND PRESENTATIONS

V. ACTION/DISCUSSION ITEMS

- A. **T-Mobile Wireless Telecommunication Upgrade and Collocation – 694 Rocky Mtn Dr. – Crown Castle:** The City Council will review a site plan that would include the installation of three antennas, 3 RRUs, 3 TMAs, 2 7/8 COAX cable, 1 1 5/8” HYBRID cable and 6 new 2 ½” pipes to the existing mount.
- B. **Resolution No. R2017-05 Appointing a Member Representative and Alternate Representative to the Utah Valley Dispatch Special Service District:** The City Council will consider appointing Jason Bond and Shane Sorensen as representatives to the Utah Valley Dispatch District.
- C. **2017 Municipal Election:** The Alpine City Council will consider contracting with Utah County to provide services for the 2107 Municipal Vote by Mail Election.
- D. **Alpine Days Budget:** The City Council will review a proposed budget for Alpine Days.

VI. STAFF REPORTS

VII. COUNCIL COMMUNICATION

VIII. EXECUTIVE SESSION: Discuss litigation, property acquisition or the professional character, conduct or competency of personnel.

ADJOURN

***Council Members may participate electronically by phone.**

Mayor Sheldon Wimmer
February 24, 2017

THE PUBLIC IS INVITED TO PARTICIPATE IN ALL CITY COUNCIL MEETINGS. If you need a special accommodation to participate, please call the City Recorder's Office at (801) 756-6241.
CERTIFICATE OF POSTING. The undersigned duly appointed recorder does hereby certify that the above agenda notice was on the bulletin board located inside City Hall at 20 North Main and sent by e-mail to The Daily Herald located in Provo, UT, a local newspaper circulated in Alpine, UT. This agenda is also available on our web site at www.alpinecity.org and on the Utah Public Meeting Notices website at www.utah.gov/pmn/index.html

PUBLIC MEETING AND PUBLIC HEARING ETIQUETTE

Please remember all public meetings and public hearings are now recorded.

- All comments **must** be recognized by the Chairperson and addressed through the microphone.
- When speaking to the City Council, please stand, speak slowly and clearly into the microphone, and state your name and address for the recorded record.
- Be respectful to others and refrain from disruptions during the meeting. Please refrain from conversation with others in the audience as the microphones are very sensitive and can pick up whispers in the back of the room.
- Keep comments constructive and not disruptive.
- Avoid verbal approval or dissatisfaction of the ongoing discussion (i.e., booing or applauding).
- Exhibits (photos, petitions, etc.) given to the City become the property of the City.
- Please silence all cellular phones, beepers, pagers or other noise making devices.
- Be considerate of others who wish to speak by limiting your comments to a reasonable length, and avoiding repetition of what has already been said. Individuals may be limited to two minutes and group representatives may be limited to five minutes.
- Refrain from congregating near the doors or in the lobby area outside the council room to talk as it can be very noisy and disruptive. If you must carry on conversation in this area, please be as quiet as possible. (The doors must remain open during a public meeting/hearing.)

Public Hearing v. Public Meeting

If the meeting is a **public hearing**, the public may participate during that time and may present opinions and evidence for the issue for which the hearing is being held. In a public hearing there may be some restrictions on participation such as time limits.

Anyone can observe a **public meeting**, but there is no right to speak or be heard there - the public participates in presenting opinions and evidence at the pleasure of the body conducting the meeting.

ALPINE CITY COUNCIL MEETING
Alpine City Hall, 20 N. Main, Alpine, UT
February 14, 2017

I. CALL MEETING TO ORDER: The meeting was called to order at 5:45 pm by Mayor Sheldon Wimmer. The following were present:

Mayor Sheldon Wimmer
 Council Members: Lon Lott, Roger Bennett, Ramon Beck, Troy Stout
 Council Members not present: Kimberly Bryant was excused.
 Staff: Shane Sorensen, Charmayne Warnock, David Church,
 Others: Barry Johnson

II. EXECUTIVE SESSION: Discuss litigation, property acquisition, or the professional character, conduct or competency of personnel.

MOTION: Troy Stout moved to go into closed session to discuss litigation. Lon Lott seconded. Ayes: 4 Nays: 0. Troy Stout, Ramon Beck, Roger Bennett, Lon Lott voted aye. Motion passed unanimously.

The City Council adjourned to closed session at 5:50 pm.

The City Council returned to open session at 6:50 pm and recessed for ten minutes.

III. RETURN TO OPEN MEETING

Mayor Sheldon Wimmer called the City Council Meeting to order at 7:00 pm.

A. Roll Call: The following were present:

Mayor Sheldon Wimmer
 Council Members: Lon Lott, Roger Bennett, Ramon Beck, Troy Stout
 Council Members not present: Kimberly Bryant was excused.
 Staff: Shane Sorensen, Charmayne Warnock, David Church, Jason Bond, Carolyn Riley, Chief Brian Gwilliam
 Others: Barry Johnson, Jeff Smith, Wayne Patterson, Loraine Lott, Scott Riley, Rob Antrim, Ray Warner, Sylvia Christiansen, Melanie Ewing, Ross Welch, Skylor Smith, Terry Smith, Steve Cosper,

B. Prayer: Troy Stout

C. Pledge of Allegiance: Mayor Sheldon Wimmer

IV. PUBLIC COMMENT: There were no comments.

V. CONSENT CALENDAR

A. Approve the minutes of the City Council meeting held January 24, 2017

B. Council Assignments

MOTION: Ramon Beck moved to approve the items on the Consent Calendar. Lon Lott seconded. Ayes: 4 Nays: 0. Ramon Beck, Lon Lott, Roger Bennett, Troy Stout voted aye. Motion passed unanimously.

VI. REPORTS AND PRESENTATIONS: None

VII. ACTION/DISCUSSION ITEMS

A. PUBLIC HEARING: AMENDMENTS TO THE ALPINE CITY ANNEXATION POLICY PLAN AND MAP: David Church said that under Utah law, a city was required to adopt an annexation policy plan. It put the county and other cities on notice as to the intentions of the city. Information that should be contained in the

1 annexation policy plan included the expected density of the area to be annexed, infrastructure needs, public and
 2 emergency services, economic impact on the city, etc. Having an annexation policy plan in place was a prerequisite
 3 for annexation. Several months ago, the City received an annexation petition from residents in the Alpine Cove
 4 subdivision. The City Council voted to accept the petition and to begin the annexation process. The next step in the
 5 process was to certify the petition. One of the requirements for certifying the petition is that the area had to be
 6 included in the annexation policy plan. Since Alpine Cove was not included in Alpine City Annexation Policy Plan,
 7 it could not be certified. Steps were then taken to update Alpine City's Annexation Policy Plan, and include Alpine
 8 Cove. Mr. Church said that approving the amendments to the Annexation Policy Plan did not automatically annex
 9 the property. It merely laid out the policy and described the possible effect of annexation should the current council
 10 or a future council decide to annex the land.

11
 12 Jason Bond presented the amended Annexation Policy Plan and Map. He said a lot of things remained the same. The
 13 area south of Box Elder subdivision was already included in the plan along with the "East" area consisting of 20
 14 acres, which was previously known as the Fitzgerald property. The two areas that were new to the plan were the
 15 Alpine Cove subdivision and Schoolhouse Springs. Schoolhouse Springs was owned by Lehi City and would remain
 16 undeveloped and be designated as a watershed. Some areas shown in the previous annexation plan were already
 17 annexed into the city. The unannexed areas included in the new plan were:

19 Alpine Cove	76.21 acres	62 lots
20 South of Box Elder	41 acres	59 lots
21 East area	20 acres	12 lots
22 Schoolhouse Springs	280.56 acre	0 lots

23
 24 Jason Bond said the finance director, Alice Winberg, had prepared charts showing the projected cost of municipal
 25 services for each area along with projected tax revenue from the annexed areas. These charts were shown in the
 26 Annexation Policy Plan.

27
 28 Jason Bond said Utah State law required cities to justify the exclusion of territory from its expansion area if the
 29 territory contained urban development and was within a half-mile of the municipality's boundary, which described
 30 Alpine Cove. In previous plans, Alpine Cove had been excluded because its residents indicated they didn't want to
 31 be annexed. Since that time, a number of residents had indicated they wanted to be annexed so it was being
 32 included. Mr. Bond said there was some dispute about the signatures on the petition, and whether or not enough of
 33 the residents wanted to be annexed to meet the requirements. It was possible they may need to submit a new
 34 petition.

35
 36 Jason Bond reviewed the population projections and showed the proposed Annexation Map. He said there was some
 37 interest in including other areas such as Pine Grove and the Melby properties in the Annexation Policy Plan and
 38 Map, but the Planning Commission could begin work on that later. He recommended the Council adopt the amended
 39 plan as shown.

40
 41 Sheldon Wimmer opened the Public Hearing to comment. There were no comments so he closed the Hearing.

42
 43 **B. Ordinance No. 2017-03, Adopting Amendments to the Alpine Annexation Policy Plan and Map:**
 44 Mayor Wimmer opened the discussion to the City Council.

45
 46 Troy Stout said annexing Schoolhouse Springs had obvious benefits. He questioned if annexing Alpine Cove would
 47 benefit the City since it was already developed, and they wouldn't be receiving any impact fees. He asked if the
 48 reduction in sewer revenue was considered when making the financial projections.

49
 50 Jason Bond said they had not considered some of those items at this stage. When they went through the actual
 51 annexation process, they would make a more detailed analysis of the revenues and expenses. Sheldon Wimmer said
 52 the fees from the county for fire suppression would also go away if Alpine Cove was annexed.

53
 54 Troy Stout said he also had questions about the area south of the Box Elder subdivision. If they annexed that land,
 55 would it create the requisite that the City pave the road through Lambert Park?
 56

1 Sheldon Wimmer said the last time they met with Utah County, it was identified as a gravel road. Mr. Stout said he
2 knew that was the current designation but was concerned that it could change in the near future.

3
4 Ramon Beck said the Planning Commission had recommended approving the amendment to the Annexation Policy
5 Plan with a four to three vote. He asked about the reasons for that.

6
7 Steve Cosper, Chairman of the Planning Commission, said there was a lot of discussion from people in the audience
8 who were opposed to annexing Alpine Cove, which probably swayed the vote.

9
10 Roger Bennett said he didn't think the proposed amendment went far enough. He felt the Annexation Plan should
11 include the Melby property and the Pine Grove property as well. However, he understood that people wanted to
12 move forward with what they had that evening, and he supported it. He then recommended that the Planning
13 Commission consider updating the plan again to include the Melby and Pine Grove properties.

14
15 Jason Bond said there were questions about whether or not the petition was valid. There needed to be enough signatures
16 to represent a majority of the owners of the land area. There may need to be a new petition.

17
18 David Church said it was an open question if they needed a new petition. When a petition was filed with the City
19 Recorder, she sent it to the City Council who voted to deny or accept it. If it was accepted, it started the process. The
20 City Recorder then certified the petition stating that it met the requirements for annexation. In this case, the
21 Recorder could not certify it because it was not included in Alpine City's Annexation Policy Plan. At that point the
22 City began the process to amend the Annexation Policy Plan and include Alpine Cove and Schoolhouse Springs in
23 the Plan. If the amended Annexation Plan was adopted, and the petition was certified, the annexation process would
24 continue.

25
26 Sheldon Wimmer called attention to the map in the packet which showed the proposed watershed protection areas. It
27 included Schoolhouse Springs and Lambert Park and other properties. It would be in conjunction with Draper City
28 and their open space with the appropriate trails. The watershed would protect the aquifers.

29
30 **MOTION:** Roger Bennett moved to adopt the Amended Annexation Policy Plan and Map as written to include
31 Alpine Cove and Schoolhouse Springs. Ramon Beck seconded. Ayes: 4 Nays: 0. Lon Lott, Roger Bennett, Ramon
32 Beck, Troy Stout voted aye. Motion passed unanimously.

33
34 Sheldon Wimmer said the Melby property had been rezoned to TR5 by the County, which would enable it to go
35 down to half-acre lots. In Alpine City's plan, the zoning for the Melby property would be a minimum lot size of one
36 acre. The only properties with a CE1 zoning in the county were the East Area property (formerly known as the
37 Fitzgerald property) and the Lehi property.

38
39 **MOTION:** Roger Bennett moved to instruct the Planning Commission to begin the study on another amendment to
40 the Alpine Annexation Policy Plan to include the Pine Grove and Melby properties. Ramon Beck seconded. Ayes: 3
41 Nays: 1. Lon Lott, Roger Bennett, Ramon Beck voted aye. Troy Stout voted nay. Motion passed.

42
43 **C. Summit Pointe Preliminary Plan:** Jason Bond said that normally the City Council did not review the
44 preliminary plats for subdivisions. The reason it was before them that evening was to review the alignment of the
45 right-of-way that would access the adjacent property belonging to Rich Hartvigsen. He said the Planning
46 Commission wanted the right-of-way issue resolved before the developers came back with a final plat.

47
48 Jason Bond presented the preliminary plat map which showed a shared driveway that ran across four large lots. The
49 developer's engineer had concluded that a road accessing the neighboring property was not feasible. The
50 neighboring property owner, Mr. Hartvigsen, had hired an engineer to determine feasibility. His engineer concluded
51 road access to the adjoining property was possible. Jed Muhlestein, the City Engineer, had looked at the proposed
52 plan which showed a right-of-way along the shared driveway, which then veered off to the Hartvigsen property, and
53 said he thought it could work.

54
55 The Planning Commission had made two motions on Summit Pointe preliminary plan. Jason Thelin moved to
56 approve the preliminary plat with three conditions which were: 1) The developer work with Alpine City concerning

1 the trail indicated on the Trails Master Plan going through the proposed subdivision; 2) The Planning Commission
2 recommended the first option presented by the Summit Pointe developer for access to the property to the north; 3)
3 Building permits would not be issued until the stated off-site improvements were complete.

4
5 The second motion made by Bryce Higbee stated that the access to adjoining property would be a right-of-way
6 easement and that the property owner to the north would bear the costs of building a road.

7
8 Jason Bond said it was on the City Council agenda because they would need to make a motion regarding the
9 alignment of the right-of-way, and the allocation of cost. If any party chose to appeal the Council's decision, it
10 would go to the Hearing Officer.

11
12 Jason Bond said Jed Muhlestein had done a slope analysis which he presented to the Planning Commission. The
13 information was also in the City Council packet. He said the alignment met the grade requirement as set forth in the
14 ordinance. If the road was ever built, the builder would have to address the storm drain and other issues.

15
16 David Church said that the City Council had an obligation to not leave a landowner worse off than he was before
17 because of development. According to Mr. Hartvigsen's engineer and the City Engineer, a road could be built. The
18 Planning Commission recommended the option submitted by the developer because the other alignment would
19 significantly impact the proposed development. Mr. Church said that if the developer benefited from the road, he
20 would have to participate in the cost of the road. But the road to the adjoining property provided no benefit to the
21 proposed development so the Planning Commission determined that the adjoining property owner would have to
22 bear the cost of building the road.

23
24 Lon Lott noted that either route would be difficult at best. Both of them would require cuts. He felt that this was the
25 best effort to provide access.

26
27 **MOTION:** Ramon Beck moved to approve the right-of-way access across the proposed Summit Pointe subdivision
28 and allocate the cost as recommended by the Planning Commission with the following conditions:

- 29
30 1. The developers work with the City concerning the trail indicated on the Trails Master Plan going
31 through the proposed subdivision.
32 2. The right-of-way would be the option (first option) presented by the Summit Pointe developer for access
33 to the property to the north.
34 3. Building permits would not be issued until the stated off-site improvements were complete.

35
36 Roger Bennett seconded. Ayes: 4 Nays: 0. Roger Bennett, Ramon Beck, Troy Stout, Lon Lott voted aye. Motion
37 passed unanimously.

38
39 **D. Parks Maintenance Building – 300 North:** Jason Bond said the Planning Commission had reviewed
40 the four options for the parks maintenance building which were: 1) a hip roof with brick facing, 2) a hip roof with
41 concrete masonry unit (CMU), 3) a flat roof with brick facing; 4) a flat roof with CMU facing. He said the Planning
42 Commission recommended a hip roof with CMU facing. They liked the brick but the cost of the CMU was about
43 \$40,000 less. Plus the siding would be largely hidden with berms and landscaping. He said they had one resident
44 attend the meeting and he preferred the hip roof. If the roof were flat, he would see it from his second-story window
45 with all the pipes sticking out.

46
47 Shane Sorensen said flat roofs needed a PVC membrane that made a white roof, which was highly visible. A shingle
48 roof would blend in better. Lon Lott said he liked the brick facing but like the Planning Commission, he was in favor
49 of saving money.

50
51 David Church said the City didn't have to go out to bid for the design. It could be negotiated. Steve Cosper said
52 there were some good, small architects in the area. They could pick three architects and negotiate rather than
53 sending out an RFP.

1 **MOTION:** Troy Stout moved to go forward with plans for the parks maintenance building with a hip roof and
2 CMU facing, and the colors to be designated in the plans. Ramon Beck seconded. Ayes: 4 Nays: 0. Troy Stout,
3 Ramon Beck, Roger Bennett, Lon Lott voted aye. Motion passed unanimously.
4

5 **E. Alpine Days Budget:** Shane Sorensen said that with the change in Council Assignments, Lon Lott
6 would be over Alpine Days and had requested that the Alpine Days budget be on the agenda for discussion.
7

8 Lon Lott said that he had asked for a budget analysis of what was spent on the previous Alpine Days events and the
9 rodeo. It appeared that the City subsidized the rodeo as well.
10

11 Troy Stout said the City had put in the rodeo lights and was supposed to recoup that expense over time. He asked if
12 that had happened. Shane Sorensen said it was his understanding that it had. Mr. Sorensen said the City had
13 budgeted \$25,000 for the rodeo and hadn't used any of it because of donations. The rodeo made a profit due to
14 sponsorships. He said he had talked to Cody Smith who said they had about \$16,000 in ticket sales. Some of the old
15 wood bleachers at the rodeo grounds were in need of repair and he wanted to spend some of the money from the
16 rodeo on that.
17

18 Lon Lott said he was going to suggest that they spend the revenue from the event as they earned it rather than make
19 expenditures first and hoping they had the revenue to cover it.
20

21 Mayor Wimmer suggested that Councilman Lott and Melanie Ewing sit down and discuss what was needed for
22 Alpine Days.
23

24 Roger Bennett said the Council needed to decide how much of their disposable income they wanted to spend on
25 Alpine Days. Troy Stout said that while they were considering the issue, they would want to take into account
26 the wear and tear on city facilities. He said the tennis courts were in bad shape after the teen dance. Gates were
27 broken and the fence damaged because kids were climbing over it.
28

29 Roger Bennett said that while they were planning events for Alpine Days, they should have activities for the youth,
30 teenagers, and adults.
31

32 Melanie Ewing said she would appreciate direction on Alpine Days. She said there wasn't enough money to hire
33 people to help so they needed more volunteers.
34

35 Troy Stout said one of the events they needed to look at was the teen dance. There were always difficulties with it.
36

37 Lon Lott said he would meet with Melanie Ewing and come back with a proposal. He would like to have Shane
38 Sorensen and Cody Smith at the meeting as well.
39

40 Melanie Ewing asked about combining the revenue from the rodeo and the Alpine Days events since she put a lot of
41 time into the website for the rodeo and ticket sales.
42

43 **VIII. STAFF REPORTS** 44

45 Jason showed the plans for the trail in the proposed Summit Pointe development. It would be a six-foot wide trail
46 along the property frontage. He noted that Chief Brian Gwilliam had been elected as the new president of the
47 Operations Dispatch Board.
48

49 Chief Gwilliam said the state legislature was looking at SB198 which would redistribute 911 fees. He said that if it
50 passed, they stood to lose between \$300,000 to \$500,000. The Utah League of Cities and Towns was going to
51 oppose the bill so it was something to be aware of.
52

53 Charmayne Warnock said that Alpine City's dog ordinance was seriously outdated and they would be reviewing an
54 updated ordinance at a future meeting. She also reported that Utah County Election Officials had met with all the
55 city recorders in the county and offered to run the upcoming election for the cities as a VBM (vote-by-mail)
56 election. The County had conducted Alpine City's vote-by-mail election in 2015, along with some of the other

1 cities. Voter turnout in the cities that participated in VBM had increased significantly. Since the County received a
2 special postal rate, their costs were considerably lower than what it would be if the cities did their own. She said the
3 decision of going with the County would be on a future agenda.

4
5 Shane Sorensen offered their congratulations to Jason Bond and his wife on the birth of their first baby.

6
7 Shane Sorensen said the staff was in the process of trying to collect payment on outstanding water bills. He invited
8 Carolyn Riley who worked in the utility department to report on what they were doing.

9
10 Carolyn Riley said there were about 48 accounts that were past due. They had started with the accounts having the
11 highest unpaid balances and let the homeowners know the city would be shutting of their water if the bill was not
12 paid. Thus far they had collected on six of the overdue accounts and there were others who were on a payment plan.

13
14 Shane Sorensen said staff needed direction from the Council on how hard of line they wanted to take with past due
15 bills. Ramon Beck asked how many of the overdue bills were from renters. Carolyn Riley said there were a few.
16 There were still cases where the renters moved out in the middle of the night and they didn't have the owners'
17 signatures as the responsible party. She said David Church was going to draw up a contract for the property owners
18 to sign so they would be responsible for the bill.

19
20 Shane Sorensen asked the Council if they were okay shutting off people's water if they didn't honor the contract.
21 The Council indicated the water should be shut off. David Church said that if the City wanted people to pay their
22 utility bill, there needed to be a credible way to enforce it. Shane Sorensen said the shut off letter restricted payment
23 to a major credit card or a money order. The Council indicated they agreed with that requirement.

24
25 Shane Sorensen said they were working on the budget for the next fiscal year so if there some items that anyone
26 wanted considered in the budget, to let him know. He said they had sold some surplus items for almost \$36,000.
27 Regarding water and potential flooding, he said they had the most snow pack they'd had in 22 years. The water in
28 Hog Hollow was running high enough that they had to tear out a culvert.

29
30 David Church recommended that they advise residents to clean out the waterways by their homes to reduce the risk
31 of flooding.

32
33 Mayor Wimmer referred to the map in the packet that showed areas in and around Alpine that he wanted to
34 designate as watershed areas. He said they would be discussing that further and consider those areas for an overlay
35 zone.

36
37 Ross Welch said it was the tenth anniversary for the River Meadows Senior Living Center and invited the City
38 officials to attend it on May 4th from 2 to 5 pm.

39
40 **MOTION:** Troy Stout moved to adjourn. Ramon Beck seconded. Ayes: 4 Nays: 0. Motion passed unanimously.

41
42 The meeting was adjourned at 8:55 pm.

ALPINE CITY COUNCIL AGENDA

SUBJECT: T-Mobile Wireless Telecommunication Tower Upgrade

FOR CONSIDERATION ON: 28 February 2017

PETITIONER: Crown Castle - Craig Chagnon

ACTION REQUESTED BY PETITIONER: Approve the Site Plan

APPLICABLE STATUTE OR ORDINANCE: Article 3.27 (Wireless Telecommunications)

PETITION IN COMPLIANCE WITH ORDINANCE: Yes

BACKGROUND INFORMATION:

Crown Castle has submitted a site plan for review that would include the installation of (3) antennas, (3) RRUs, (3) TMAs, (2) 7/8 COAX cable, (1) 1-5/8" HYBRID cable and (6) New 2-1/2" pipes to the existing mount. The site is located at 694 Rocky Mountain Drive (Shepherd's Hill).

State or local government may not deny, and shall approve, any eligible facilities request for a modification of an existing wireless tower or base station that does not substantially change the physical dimensions of such tower or base station. For purposes of this subsection, the term "eligible facilities request" means any request for modification of an existing wireless tower or base station that involves:

- (A) collocation of new transmission equipment;
- (B) removal of transmission equipment;
- (C) replacement of transmission equipment;

(Article 3.27.3 of the Alpine City Development Code)

PLANNING COMMISSION MOTION:

Jane Griener moved to recommend approval of the T-Mobile Wireless Telecommunications Upgrade and Collocation with the following condition:

1. Crown Castle consider replacing dead trees around their cell tower and adding additional foliage.

John Gubler seconded the motion. The motion passed with 4 Ayes and 0 Nays. Steve Cosper, Jane Griener, Carla Merrill, and John Gubler all voted Aye.

ARTICLE 3.27

WIRELESS TELECOMMUNICATIONS ORDINANCE

(Ord. No. 2006-06, 4/25/06; Amended by Ord. No. 2012-05, 7/10/12;
Ord. No. 2014-15, 09/23/14)

3.27.1 GENERAL PROVISIONS

1. Title. This Ordinance shall be known as the Wireless Telecommunications Ordinance.
2. Purpose & Intent. The unique character, landscapes and scenic vistas of Alpine are among its most valuable assets. Preserving and promoting those assets are essential to the long-range social and economic wellbeing of the City and its inhabitants. Protecting these assets requires sensitive placement and design of wireless communication facilities so that these facilities remain in scale and harmony with the existing character of the community.
 - a. To amend Ordinance No. 2006-06 to accommodate new technology and develop regulations on the use and development of City property for new cell tower facilities.
 - b. To regulate personal wireless services antennas, with or without support structures, and related electronic equipment and equipment structures.
 - c. To provide for the orderly establishment of personal wireless services facilities in the City.
 - d. To minimize the number of antenna support structures by encouraging the co-location of multiple antennas on a single new or existing structure.
 - e. To establish siting, appearance and safety standards that will help mitigate the potential impacts related to the construction, use and maintenance of personal wireless communication facilities.
 - f. To comply with the Telecommunication Act of 1996 by establishing regulations that (1) do not prohibit or have the effect of prohibiting the provision of personal wireless services, (2) do not unreasonably discriminate among providers of functionally equivalent services, and (3) are not based on the environmental effects of radio frequency emissions to the extent that such facilities comply with the Federal Communications Commission's regulations concerning such emissions.
3. Findings.
 - a. Personal wireless services facilities (PWSF) are an integral part of the rapidly growing and evolving telecommunications industry, and present unique zoning challenges and concerns by the City.
 - b. The City needs to balance the interests and desires of the telecommunications industry and its customers to provide competitive and effective telecommunications systems in the City, against the sometimes differing interests and desires of others concerning health, safety, welfare, and aesthetics, and orderly planning of the community.
 - c. The City has experienced an increased demand for personal wireless services facilities to be located in the City, and expects the increased demand to continue in the future.
 - d. It is in the best interests of the City to have quality personal wireless services facilities available, which necessarily entails the erection of personal wireless services facilities in the City.
 - e. The unnecessary proliferation of personal wireless services facilities through the City creates a negative visual impact on the community.
 - f. The visual effects of personal wireless services facilities can be mitigated by fair standards regulating their siting, construction, maintenance and use.
 - g. A private property owner who leases space for a personal wireless services facility is the only one who receives compensation for the facility, even though numerous other property owners in the area are adversely affected by the location of the facility.

- a. Amateur Radio. Any tower or antenna owned and operated by an amateur radio operator licensed by the Federal Communication Commission.
- b. Amateur T.V. Any tower or antenna owned and operated by an amateur T.V. operator licensed by the Federal Communication Commission.
- c. Satellite. Any device designed for over-the-air reception of television broadcast signals, multichannel multipoint distribution service or direct satellite service.
- d. Cable. Any cable television head-end or hub towers and antennas used solely for cable television services.

3.27.2 LOCATION AND TYPES OF TOWERS/ANTENNAS

1. Personal Wireless Services Facilities Site Locations. The following are currently approved locations:
 - a. Co-location on an existing tower.
 - b. City owned property.
 - c. Property in conjunction with a quasi-public or public use.
 - d. Commercial property in the business commercial zone.

No new towers shall be located in Lambert Park.

New towers shall be located no closer than a one-quarter (1/4) mile radius from another tower and shall be no closer to a residence than two (2) times the height of the tower.

If the applicant desires to locate on a site other than the approved sites listed above, the applicant shall have the burden of demonstrating to the City why it cannot locate on an approved site. To do so, the applicant shall provide the following information to the City:

- a. The identity and location of any approved sites located within the desired service area.
- b. The reason(s) why the approved sites are not technologically, legally, or economically feasible. The applicant must make a good faith effort to locate towers and antennas on an approved site. The City may request information from outside sources to justify or rebut the applicant's reason(s) for rejecting an approved site.
- c. Why the proposed site is essential to meet the service demands of the geographic service area and the citywide network. If the applicant desires to construct a monopole, the applicant shall also submit a detailed written description of why the applicant cannot obtain coverage using existing towers.

2. Permitted and Non-Permitted Towers and Antennas.

- a. Permitted. The following are permitted:
 1. Co-location on existing towers.
 2. Existing towers may be maintained, used, and upgraded or replaced. A replacement tower shall not exceed the height of the tower being replaced.
 3. Monopoles are permitted subject to the following:
 - a. A monopole shall not exceed eighty feet (80').
 4. Roof-mounted Antennas are permitted subject to the following:
 - a. A roof-mounted antenna shall be screened, constructed, and/or colored to match the structure to which it is attached.

- b. A roof-mounted antenna shall be set back from the building edge one (1) foot for every one (1) foot of antenna height and shall not exceed fifteen (15) feet in height.
5. All new antennas shall be slim-mounted or mounted to an existing array.

b. Not Permitted. The following are not permitted:

1. Lattice Towers. Lattice appearance is not permitted.
2. Guyed Towers.
3. Co-location Requirement. Unless otherwise authorized by the approving authority for good cause shown, every new tower shall be designed and constructed to be of sufficient size and capacity to accommodate at least two (2) additional wireless telecommunications providers on the structure in the future.
4. Lease Agreement. The City has no implied obligation to lease any particular parcel of City-owned property to an applicant. The City shall enter into a standard lease agreement with the applicant for any facility built on City property. The Mayor or designee is hereby authorized to execute the standard lease agreement on behalf of the City. The lease shall contain the condition that the approving authority must first approve the site plan before the lease can take effect, and that failure to obtain such approval renders the lease null and void.

3.27.3 PROCEDURE (Amended by Ord. No. 2014-15, 9/23/14)

State or local government may not deny, and shall approve, any eligible facilities request for a modification of an existing wireless tower or base station that does not substantially change the physical dimensions of such tower or base station. For purposes of this subsection, the term "eligible facilities request" means any request for modification of an existing wireless tower or base station that involves:

- (A) collocation of new transmission equipment;
- (B) removal of transmission equipment; or
- (C) replacement of transmission equipment.

1. Application Requirements. Any person desiring to develop, construct or establish a personal wireless services facility in the City shall submit an application for site plan approval to the City. A site plan shall be required for all new towers and antennas and any modification or replacement of a tower or antenna. The City shall not consider the application until all required information has been included. The application shall be submitted to the City Planner at least fourteen (14) days prior to the public meeting at which it will be presented to the Planning Commission. The applicant shall include the following:
 - a. Fee. The applicable fee shall be paid to the City Recorder, payable to Alpine City, as set forth in the Alpine City Consolidated Fee Schedule.
 - b. Site Plan. A site plan meeting the City's standard requirements for site plans.
 - c. Notification Letter. The applicant shall submit a list of all property owners within five hundred (500) feet of the boundaries of the property where the proposed tower or antenna is to be located. The applicant shall also submit envelopes that have been stamped and addressed to all property owners on the list. The City may require a greater distance if deemed necessary or appropriate. The City shall prepare a notification letter to be sent to the property owners on the list submitted by the applicant to be mailed out at

least seven (7) days prior to the public meeting at which the application will be presented to Planning Commission. The letter shall contain the following information:

1. Address or location of the proposed tower, co-location, tower modification, etc.
 2. Name of the applicant.
 3. Type of tower/antenna (e.g. monopole, roof antenna, etc.)
 4. Date, time, and place of the public meeting at which the application will be presented to the Planning Commission.
- d. Sign. The applicant shall erect a sign of sufficient durability, and print and size quality that is reasonably calculated to give notice to passers-by. The sign shall be posted at least fourteen (14) days prior to the public meeting at which the application will be presented to the Planning Commission. The sign:
1. Shall be 4 ft. (H) x 8 ft. (W)
 2. Shall not be more than six (6) feet in height from the ground to the highest point of the sign; and
 3. Shall be posted five (5) feet inside the property line in a visible location on the property where the tower/antenna is to be located. If the property is located in such a spot that the sign would not be visible from the street, the sign shall be erected in another location close by that will give notice to passers-by, or at Alpine City Hall. The applicant shall be responsible to obtain permission of the property owner to erect the sign. The sign shall include the following information:
 - a. Address of location of the proposed tower, co-location, tower modification, etc.
 - b. Type of tower/antenna (e.g. monopole, roof antenna, etc.)
 - c. Date, time, and place of the public meeting at which the application will be presented to the Planning Commission.
- e. Written Information. The following written information shall be submitted:
1. Maintenance. A description of the anticipated maintenance needs for the facility, including frequency of service, personnel needs, equipment needs, and traffic noise or safety impacts of such maintenance.
 2. Service Area. A description of the service area for the antenna or tower and a statement as to whether the antenna or tower is needed for coverage or capacity.
 3. Licenses and Permits. Copies of all licenses and permits required by other agencies and governments with jurisdiction over the design, construction, location and operation of the antenna.
 4. Radio Frequency Emissions. A written commitment to comply with applicable Federal Communications Commission radio frequency emission regulations.
 5. Liaison. The name of a contact person who can respond to questions concerning the application and the proposed facility. Include name, address, telephone number, facsimile number and electronic mail address, if applicable.
2. Approval Process. The application and site plan shall be reviewed by the City pursuant to its standard site plan approval process. The City shall process all applications within a reasonable time and shall not unreasonably discriminate among providers of functionally equivalent services. Any decision to deny a request to place, construct, or modify personal wireless service facilities shall be in writing and supported by substantial evidence contained in a written record. The application and site plan will be reviewed by Planning Commission for a recommendation to City Council. The City Council shall review the application and site plan and shall act as the land use authority in approving or denying the application and site plan.

The Planning Commission may, if it deems necessary, require each application to be reviewed independently by a certified radio frequency engineer, licensed to do such work in the State of Utah. The purpose of the review is to determine if other locations are available to achieve an equivalent signal distribution and not significantly affect the operation of the telecommunications facility. Such a review may be required when an applicant indicates that no other acceptable location exists. The costs of an independent review shall be borne by the applicant.

3. Building Permits.

- a. **General Requirements.** No tower or antenna support structure shall be constructed until the applicant obtains a building permit from the City. No building permit shall be issued for any project for which a site plan or amended site plan is required, until the site plan or amended site plan has been approved by the appropriate authority. If the design or engineering of the antenna support structure is beyond the expertise of the Building Official, the City may require third party review by an engineer selected by the City prior to the issuance of a building permit. The applicant shall pay an additional fee to cover the cost of the third party review.
- b. **Additional Requirements for New Towers.** If the applicant is constructing a new tower, the applicant shall, if requested by the City, submit a written report from a qualified structural engineer licensed in the State of Utah, documenting the following:
 1. Height and design of the new tower, including technical, engineering, economic, and other pertinent factors governing selection of the proposed design.
 2. Seismic load design and wind load design for the new tower.
 3. Total anticipated capacity of the new tower, including number and types of antennas which can be accommodated.
 4. Structural failure characteristics of the new tower and a demonstration that the site and setbacks are adequate size to contain debris.
 5. Soil investigation report, including structural calculations.

3.27.4 SAFETY

1. **Regulation Compliance.**
 - a. **Compliance with FCC and FAA Regulations.** All operators of personal wireless services facilities shall demonstrate compliance with applicable Federal Communication Commission (FCC) and Federal Aviation Administration (FAA) regulations, including FCC radio frequency regulations, at the time of application and periodically thereafter as requested by the City. Failure to comply with the applicable regulations shall be grounds for revoking a site plan.
 - b. **Other Licenses and Permits.** The operator of every personal wireless services facility shall submit copies of all licenses and permits required by other agencies and governments with the jurisdiction over the design, construction, location and operation of the facility to the City, shall maintain such licenses and permits in good standing, and shall provide evidence of renewal or extension thereof upon request by the City.
2. **Protection Against Climbing.** Towers shall be protected against unauthorized climbing by removing the climbing pegs from the lower 20 feet of the towers.
3. **Fencing.** Towers shall be fully enclosed by a minimum 6-foot tall fence or wall, as directed by the City, unless the City determines that a wall or fence is not needed or appropriate for a particular site due to conditions specific to the site.

4. Security Lighting Requirement. Towers shall comply with the FAA requirements for lighting. The City may also require security lighting for the site. If security lighting is used, the lighting impact on surrounding residential areas shall be minimized by using indirect lighting, where appropriate.
5. Emergency. The City shall have the authority to move or alter a personal wireless services facility in case of emergency. Before taking any such action, the City shall first notify the owner of the facility, if feasible.

3.27.5 ADDITIONAL REQUIREMENTS

1. Regulations for Accessory Structures.
 - a. Storage Areas and Solid Waste Receptacles. No outside storage or solid waste receptacles shall be permitted on site.
 - b. Equipment Enclosures. All electronic and other related equipment and appurtenances necessary for the operation of any personal wireless services facility shall, whenever possible, be located within a lawfully pre-existing structure or completely below grade. When a new structure is required to house such equipment, the structure shall be harmonious with, and blend with, the natural features, buildings and structures surrounding such structure.
 - c. Accessory Buildings. Freestanding accessory buildings used with a personal wireless services facility shall not exceed 450 square feet and shall comply with the setback requirements for structures in the zone in which the facility is located.
2. Parking. The City may require a minimum of one (1) parking stall for sites containing a personal wireless services facility and/or accessory buildings, if there is insufficient parking available on the site.
3. Maintenance Requirements. All personal wireless services facilities shall be maintained in a safe, neat, and attractive manner.
4. Landscaping. A landscaping plan shall be submitted to the Planning Commission who will make a recommendation to the City Council who will approve the landscape plan.
5. Site Restoration Upon Abandonment. All sites shall be restored to the original configuration upon abandonment.
6. Fencing. The City will determine the type of fencing used on wireless telecommunications sites on a case by case basis. In the case of the Rodeo Grounds, the fencing shall match the existing fencing. Fencing will recommend by the Planning Commission and approved by the City Council.
7. Color and material standards. The City shall make an administrative decision as to the color. To the extent the personal wireless services facilities extend above the height of the vegetation immediately surround it, they shall be painted in a nonreflective light gray, light blue or other hue, which blends with the skyline and horizon or a brown to blend in with the surrounding hillside.
8. Facility Lighting and Signage Standards. Facility lighting shall be designed so as to meet but not exceed minimum requirements for security, safety and/or FAA regulations. Lighting of antennas or support structures shall be prohibited unless required by the FAA and no other alternatives are available. In all instances, the lighting shall be designed so as to avoid glare and minimize illumination on adjacent properties. Lighting shall also comply with any applicable City lighting standards.
9. Facility Signs. Signs shall be limited to those needed to identify the numbers to contact in an emergency, public safety warnings, certifications or other required seals. These signs shall also comply with the requirements of the City's sign regulations.
10. Utility Lines. All utility lines serving new cell towers shall be located underground.
11. Business License. Each facility shall be considered as a separate use; and an annual business license shall be required for each facility.

T-Mobile

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

T-MOBILE SITE NUMBER: SL01122A
T-MOBILE SITE NAME: ALPINE SHEPHERD HILL
SITE TYPE: MONOPOLE
TOWER HEIGHT: 22'-0"

CROWN CASTLE BU #: 822343
SITE ADDRESS: 651 S BATEMAN ALPINE, UT 84004
COUNTY: UTAH
JURISDICTION: CITY OF ALPINE

CROWN CASTLE
116 INVERNESS DR. EAST STE# 280
ENGLEWOOD, CO 80112

SITE INFORMATION

SITE NAME: ALPINE_SHEPHERD_HILL
SITE ADDRESS: 651 S BATEMAN, ALPINE, UT 84004
COUNTY: UTAH
MAP/PARCEL #: 11-023-0117
AREA OF CONSTRUCTION: EXISTING
LATITUDE: 40° 26' 39.30"
LONGITUDE: -111° 46' 46.30"
LAT/LONG TYPE: NAD83

JURISDICTION: CITY OF ALPINE
OCCUPANCY CLASSIFICATION: U
TYPE OF CONSTRUCTION: VB
A.D.A. COMPLIANCE: FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION

PROPERTY OWNER: CLYDE SHEPHERD
694 ROCKY MOUNTAIN DR
ALPINE, UT 84004-1540

TOWER OWNER: CCTMO LLC
2000 CORPORATE DRIVE
CANONSBURG, PA 15317

APPLICANT/CARRIER: CROWN CASTLE
116 INVERNESS DR. EAST STE# 280
ENGLEWOOD, CO 80112

CROWN CASTLE APPLICATION ID: 369829

ELECTRIC PROVIDER: ROCKY MOUNTAIN POWER
(877) 548-3768

TEL.CO PROVIDER: CENTURY LINK
(281) 359-9519

DRAWING INDEX

SHEET #	SHEET DESCRIPTION
T-1	TITLE SHEET
T-2	GENERAL NOTES
C-1.1	SITE PLAN
C-1.2	EXISTING AND FINAL EQUIPMENT LAYOUTS
C-2	EXISTING AND FINAL ELEVATIONS
C-3	ANTENNA PLAN AND SCHEDULE
C-4	EQUIPMENT SPECIFICATIONS
C-5	PLUMBING DIAGRAM
C-6	RFDS
G-1	ANTENNA GROUNDING DETAILS
G-2	GROUNDING DETAILS
G-3	GROUNDING DETAILS

ALL DRAWINGS CONTAINED HEREIN ARE FORMATTED FOR FULL SIZE. CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

LOCATION MAP



DRIVING DIRECTIONS FROM T-MOBILE LOCAL OFFICE (121 W. ELECTION RD. SUITE 330 DRAPER UT, 84020):
HEAD WEST ON S ELECTION RD TOWARD LONE PEAK PKWY.
TAKE I-15 S, TIMPANOGOS HWY COMMUTER LN AND UT-92 E TO SUNSET DR IN ALPINE.
CONTINUE ON SUNSET DR AND TAKE BATEMAN LN TO W CASCADE AVE.

PROJECT DESCRIPTION

THE PURPOSE OF THIS PROJECT IS TO PROPOSE AN ANTENNA MODIFICATION ON AN EXISTING WIRELESS SITE.

- INSTALL (3) ANTENNAS
- INSTALL (3) RRU's
- REMOVE (3) TMA's
- INSTALL (2) 7/8" COAX CABLE
- INSTALL (1) 1-5/8" HYBRID CABLE
- INSTALL (6) NEW 2-1/2" HORIZONTAL PIPES W/ CROSSOVER HARDWARE TO (3) MOUNT

DESIGN PACKAGE BASED ON APPLICATION ID: 369829
REVISION: 0

DESIGN PACKAGE BASED ON RF DATA SHEET VERSION: 1.1
ISSUED: 8/4/16



CALL UTAH ONE CALL
(800) 862-4111
CALL 3 WORKING DAYS
BEFORE YOU DIG!



APPLICABLE CODES/REFERENCE DOCUMENTS

ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES:

CODE TYPE	CODE
BUILDING	UTAH STATE CONSTRUCTION CODE/2015 IBC
MECHANICAL	UTAH STATE CONSTRUCTION CODE/2015 IMC
ELECTRICAL	UTAH STATE CONSTRUCTION CODE/2014 NEC

REFERENCE DOCUMENTS:

STRUCTURAL ANALYSIS: CROWN CASTLE
DATED JANUARY 9, 2017

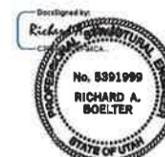
MOUNT ANALYSIS: BY OTHERS

SITE PHOTO:



ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DFS/QA
A	01/11/17	NJH	PRELIMINARY	CTR
0	01/26/17	NJH	CONSTRUCTION	RAB



1/26/2017 | 10:24:49 AM EST

Richard A. Boelter, P.E.
Professional Engineer License: #5391999
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

SHEET NUMBER: T-1
REVISION: 0

PROJECT TEAM

CROWN CASTLE A&E FIRM: CROWN CASTLE
2000 CORPORATE DRIVE
CANONSBURG, PA 15317
CROWN.AE.APPROVAL@CROWNCASTLE.COM

CROWN CASTLE CONTACTS: 116 INVERNESS DR. EAST STE# 280
ENGLEWOOD, CO 80112

GRANT STEINHAUSER - PROJECT MANAGER
(720) 450-3069

JEREMY EVERILL-LEE - CONSTRUCTION MANAGER
(801) 347-0768

RACHAEL CARSON - A&E PROJECT MANAGER
RACHAEL.CARSON.CONTRACTOR@CROWNCASTLE.COM
(602) 845-1721

SITE WORK GENERAL NOTES:

1. THE SUBCONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
2. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY CONTRACTOR. EXTREME CAUTION SHOULD BE USED BY THE SUBCONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. SUBCONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION B) CONFINED SPACE C) ELECTRICAL SAFETY D) TRENCHING AND EXCAVATION.
3. ALL SITE WORK TO COMPLY WITH QAS-STD-1006B "INSTALLATION STANDARDS FOR CONSTRUCTION ACTIVITIES ON CROWN CASTLE TOWER SITE" AND LATEST VERSION OF TIA 1019 "STANDARD FOR INSTALLATION, ALTERATION, AND MAINTENANCE OF ANTENNA SUPPORTING STRUCTURES AND ANTENNAS."
4. ALL SITE WORK SHALL BE AS INDICATED ON THE STAMPED CONSTRUCTION DRAWINGS AND PROJECT SPECIFICATIONS.
5. IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
6. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF CONTRACTOR, OWNER AND/OR LOCAL UTILITIES.
7. THE SUBCONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATION FOR SITE SIGNAGE.
8. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE BTS EQUIPMENT AND TOWER AREAS.
9. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
10. THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
11. THE AREAS OF THE OWNERS PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION AS SPECIFIED ON THE PROJECT SPECIFICATIONS.
12. SUBCONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.
13. NOTICE TO PROCEED- NO WORK TO COMMENCE PRIOR TO COMPANY'S WRITTEN NOTICE TO PROCEED AND THE ISSUANCE OF A PURCHASE ORDER.
14. ALL CONSTRUCTION MEANS AND METHODS; INCLUDING BUT NOT LIMITED TO, ERECTION PLANS, RIGGING PLANS, CLIMBING PLANS, AND RESCUE PLANS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR RESPONSIBLE FOR THE EXECUTION OF THE WORK CONTAINED HEREIN AND SHALL MEET ANSI/TIA 1019 (LATEST EDITION), OSHA, AND GENERAL INDUSTRY STANDARDS. ALL RIGGING PLANS SHALL ADHERE TO ANSI/TIA-1019 (LATEST EDITION) INCLUDING THE REQUIRED INVOLVEMENT OF A QUALIFIED ENGINEER FOR CLASS IV CONSTRUCTION.

STRUCTURAL STEEL NOTES:

1. ALL STEEL WORK SHALL BE PAINTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND IN ACCORDANCE WITH ASTM A36 UNLESS OTHERWISE NOTED.
2. BOLTED CONNECTIONS SHALL BE ASTM A325 BEARING TYPE (3/4") CONNECTIONS AND SHALL HAVE MINIMUM OF TWO BOLTS UNLESS NOTED OTHERWISE.
3. NON-STRUCTURAL CONNECTIONS FOR STEEL GRATING MAY USE 5/8" ASTM A307 BOLTS UNLESS NOTED OTHERWISE.
4. INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHOR, SHALL BE PER MANUFACTURER'S RECOMMENDED PROCEDURE. THE ANCHOR BOLT, DOWEL OR ROD SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBAR SHALL BE CUT WIT-OUT PRIOR CONTRACTOR APPROVAL WHEN DRILLING HOLES IN CONCRETE. SPECIAL INSPECTIONS, REQUIRED BY GOVERNING CODES, SHALL BE PERFORMED IN ORDER TO MAINTAIN MANUFACTURER'S MAXIMUM ALLOWABLE LOADS.

CONCRETE AND REINFORCING STEEL NOTES:

1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 336, ASTM A184, ASTM A185 AND THE DESIGN AND CONSTRUCTION SPECIFICATION FOR CAST-IN-PLACE CONCRETE.
2. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS, UNLESS NOTED OTHERWISE. SLAB FOUNDATION DESIGN ASSUMING ALLOWABLE SOIL BEARING PRESSURE OF 2000 PSF.
3. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, DEFORMED UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185 WELDED STEEL WIRE FABRIC UNLESS NOTED OTHERWISE. SPLICES SHALL BE CLASS "B" AND ALL HOOKS SHALL BE STANDARD, UNO.
4. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:
 CONCRETE CAST AGAINST EARTH.....3 IN.
 CONCRETE EXPOSED TO EARTH OR WEATHER:
 #6 AND LARGER.....2 IN.
 #5 AND SMALLER & WWF.....1 1/2 IN.
 CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR NOT CAST AGAINST THE GROUND:
 SLAB AND WALLS.....3/4 IN.
 BEAMS AND COLUMNS.....1 1/2 IN.
5. A CHAMFER 3/4" SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNLESS NOTED OTHERWISE, IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.

MASONRY NOTES:

1. HOLLOW CONCRETE MASONRY UNITS SHALL MEET A.S.T.M. SPECIFICATION C90, GRADE N, TYPE 1, THE SPECIFIED DESIGN COMPRESSIVE STRENGTH OF CONCRETE MASONRY (F'm) SHALL BE 1500 PSI.
2. MORTAR SHALL MEET THE PROPERTY SPECIFICATION OF A.S.T.M. C270 TYP. "S" MORTAR AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI.
3. GROUT SHALL MEET A.S.T.M. SPECIFICATION C475 AND HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 2000 PSI.
4. CONCRETE MASONRY SHALL BE LAID IN RUNNING (COMMON) BOND.
5. WALL SHALL RECEIVE TEMPORARY BRACING. TEMPORARY BRACING SHALL NOT BE REMOVED UNTIL GROUT IS FULLY CURED.

GENERAL NOTES:

1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:
 CONTRACTOR- GENERAL CONTRACTOR (CONSTRUCTION)
 SUBCONTRACTOR- T-MOBILE
 CARRIER- CROWN CASTLE
 TOWER OWNER- ORIGINAL EQUIPMENT MANUFACTURER
 OEM-
2. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING SUBCONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CONTRACTOR AND CROWN CASTLE.
3. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. SUBCONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
4. DRAWINGS PROVIDED HERE ARE NOT TO SCALE AND ARE INTENDED TO SHOW OUTLINE ONLY.
5. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
6. "KITTING LIST" SUPPLIED WITH THE BID PACKAGE IDENTIFIES ITEMS THAT WILL BE SUPPLIED BY CONTRACTOR. ITEMS NOT INCLUDED IN THE BILL OF MATERIALS AND KITTING LIST SHALL BE SUPPLIED BY THE SUBCONTRACTOR.
7. THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
8. IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE CONTRACTOR AND CROWN CASTLE PRIOR TO PROCEEDING WITH ANY SUCH CHANGE OF INSTALLATION.
9. SUBCONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER AND T1 CABLES, GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TELCO PLAN DRAWINGS.
10. THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.
11. SUBCONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
12. SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION. TRASH AND DEBRIS SHOULD BE REMOVED FROM SITE ON A DAILY BASIS.

ABBREVIATIONS AND SYMBOLS:

ABBREVIATIONS:

- AGL ABOVE GRADE LEVEL
- BTS BASE TRANSCIVER STATION
- (E) EXISTING
- MIN. MINIMUM
- REF REFERENCE
- RF RADIO FREQUENCY
- T.B.D. TO BE DETERMINED
- T.B.R. TO BE RESOLVED
- TYP TYPICAL
- REQ REQUIRED
- EGR EQUIPMENT GROUND RING
- AWG AMERICAN WIRE GAUGE
- MGB MASTER GROUND BAR
- EG EQUIPMENT GROUND
- BCW BARE COPPER WIRE
- SIAD SMART INTEGRATED ACCESS DEVICE
- GEN GENERATOR
- IGR INTERIOR GROUND RING (HALO)
- RBS RADIO BASE STATION

SYMBOLS:

- SOLID GROUND BUS BAR
- SOLID NEUTRAL BUS BAR
- SUPPLEMENTAL GROUND CONDUCTOR
- 2-POLE THERMAL-MAGNETIC CIRCUIT BREAKER
- SINGLE-POLE THERMAL-MAGNETIC CIRCUIT BREAKER
- CHEMICAL GROUND ROD
- TEST WELL
- DISCONNECT SWITCH
- METER
- EXOTHERMIC WELD (CADWELD) (UNLESS OTHERWISE NOTED)
- MECHANICAL CONNECTION
- GROUNDING WIRE

ELECTRICAL INSTALLATION NOTES:

1. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES/ORDINANCES.
2. CONDUIT ROUTINGS ARE SCHEMATIC. SUBCONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED AND TRIP HAZARDS ARE ELIMINATED.
3. WIRING, RACEWAY AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC. HILTI EPOXY ANCHORS ARE REQUIRED BY CROWN CASTLE.
4. ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC.
5. CABLES SHALL NOT BE ROUTED THROUGH LADDER-STYLE CABLE TRAY RUNGS.
6. EACH END OF EVERY POWER, POWER PHASE CONDUCTOR (I.E., HOTS), GROUNDING AND T1 CONDUCTOR AND CABLE SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2" PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC AND OSHA.
7. ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH PLASTIC TAPE PER COLOR SCHEDULE. ALL EQUIPMENT SHALL BE LABELED WITH THEIR VOLTAGE RATING, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING AND BRANCH CIRCUIT ID NUMBERS (I.E. PANEL BOARD AND CIRCUIT ID'S).
8. PANEL BOARDS (ID NUMBERS) AND INTERNAL CIRCUIT BREAKERS (CIRCUIT ID NUMBERS) SHALL BE CLEARLY LABELED WITH PLASTIC LABELS.
9. ALL TIE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES.
10. POWER, CONTROL AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE CONDUCTOR (#14 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90° C (WET & DRY) OPERATION LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED UNLESS OTHERWISE SPECIFIED.
11. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE CONDUCTOR (#6 AWG OR LARGER), 600V, OIL RESISTANT THHN OR THWN-2 GREEN INSULATION CLASS B STRANDED COPPER CABLE RATED FOR 90° C (WET AND DRY) OPERATION LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED UNLESS OTHERWISE SPECIFIED.
12. POWER AND CONTROL WIRING, NOT IN TUBING OR CONDUIT, SHALL BE MULTI-CONDUCTOR, TYPE TC CABLE (#14 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90° C (WET AND DRY) OPERATION WITH OUTER JACKET LISTED OR LABELED FOR THE LOCATION USED UNLESS OTHERWISE SPECIFIED.
13. ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP-STYLE, COMPRESSION WIRE LUGS AND WIRE NUTS BY THOMAS AND BETTS (OR EQUAL). LUGS AND WIRE NUTS SHALL BE RATED FOR OPERATION AT NO LESS THAN 75° C (90° C IF AVAILABLE).
14. RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND NEC.
15. ELECTRICAL METALLIC TUBING (EMT) OR RIGID NONMETALLIC CONDUIT (I.E. RIGID PVC SCHEDULE 40 OR RIGID PVC SCHEDULE 80 FOR LOCATIONS SUBJECT TO PHYSICAL DAMAGE) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.
16. ELECTRICAL METALLIC TUBING (EMT), ELECTRICAL NONMETALLIC TUBING (ENT) OR RIGID NONMETALLIC CONDUIT (RIGID PVC, SCHEDULE 40) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.
17. SCHEDULE 40 PVC UNDERGROUND ON STRAIGHTS AND SCHEDULE 80 PVC FOR ALL ELBOWS/90s AND ALL APPROVED ABOVE GRADE PVC CONDUIT.
18. LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.
19. CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED. SET SCREW FITTINGS ARE NOT ACCEPTABLE.
20. CABINETS, BOXES AND WIRE WAYS SHALL BE LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND NEC.
21. WIREWAYS SHALL BE EPOXY-COATED (GRAY) AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARDS; SHALL BE PANDUIT TYPE E (OR EQUAL); AND RATED NEMA 1 (OR BETTER).
22. CONDUITS SHALL BE FASTENED SECURELY IN PLACE WITH APPROVED NON-PERFORATED STRAPS AND HANGERS. EXPLOSIVE DEVICES FOR ATTACHING HANGERS TO STRUCTURE WILL NOT BE PERMITTED. CLOSELY FOLLOW THE LINES OF THE STRUCTURE, MAINTAIN CLOSE PROXIMITY TO THE STRUCTURE AND KEEP CONDUITS IN TIGHT ENVELOPES. CHANGES IN DIRECTION TO ROUTE AROUND OBSTACLES SHALL BE MADE WITH CONDUIT OUTLET BODIES. CONDUIT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. PARALLEL AND PERPENDICULAR TO STRUCTURE WALL AND CEILING LINES. ALL CONDUIT SHALL BE FISHED TO CLEAR OBSTRUCTIONS. ENDS OF CONDUITS SHALL BE TEMPORARILY CAPPED FLUSH TO FINISH GRADE TO PREVENT CONCRETE, PLASTER OR DIRT FROM ENTERING. CONDUITS SHALL BE RIGIDLY CLAMPED TO BOXES BY GALVANIZED MALLEABLE IRON BUSHIN ON INSIDE AND GALVANIZED MALLEABLE IRON LOCKNUT ON OUTSIDE AND INSIDE.
23. EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES AND PULL BOXES SHALL BE GALVANIZED OR EPOXY-COATED SHEET STEEL; SHALL MEET OR EXCEED UL 50 AND RATED NEMA 1 (OR BETTER) INDOORS OR NEMA 3R (OR BETTER) OUTDOORS.
24. METAL RECEPTACLE, SWITCH AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY-COATED OR NON-CORRODING; SHALL MEET OR EXCEED UL 514A AND NEMA OS 1; AND RATED NEMA 1 (OR BETTER) INDOORS OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
25. NONMETALLIC RECEPTACLE, SWITCH AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2; AND RATED NEMA 1 (OR BETTER) INDOORS OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
26. THE SUBCONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CONTRACTOR BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.
27. THE SUBCONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD LIFE AND PROPERTY.
28. INSTALL PLASTIC LABEL ON THE METER CENTER TO SHOW "T-MOBILE".
29. ALL CONDUITS THAT ARE INSTALLED ARE TO HAVE A METEDED MULE TAPE PULL CORD INSTALLED.

GREENFIELD GROUNDING NOTES:

1. ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION AND AC POWER GES'S) SHALL BE BONDED TOGETHER AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.
2. THE SUBCONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR GROUND ELECTRODE SYSTEMS. THE SUBCONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.
3. THE SUBCONTRACTOR IS RESPONSIBLE FOR PROPERLY SEQUENCING GROUNDING AND UNDERGROUND CONDUIT INSTALLATION AS TO PREVENT ANY LOSS OF CONTINUITY IN THE GROUNDING SYSTEM OR DAMAGE TO THE CONDUIT AND PROVIDE TESTING RESULTS.
4. METAL CONDUIT AND TRAY SHALL BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH #6 AWG COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.
5. METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPMENT.
6. EACH CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, 6 AWG STRANDED COPPER OR LARGER FOR INDOOR BTS; #2 AWG SOLID TINNED COPPER FOR OUTDOOR BTS.
7. CONNECTIONS TO THE GROUND BUS SHALL NOT BE DOUBLED UP OR STACKED BACK TO BACK CONNECTIONS ON OPPOSITE SIDE OF THE GROUND BUS ARE PERMITTED.
8. ALL EXTERIOR GROUND CONDUCTORS BETWEEN EQUIPMENT/GROUND BARS AND THE GROUND RING SHALL BE #2 AWG SOLID TINNED COPPER UNLESS OTHERWISE INDICATED.
9. ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
10. USE OF 90° BENDS IN THE PROTECTION GROUNDING CONDUCTORS SHALL BE AVOIDED WHEN 45° BENDS CAN BE ADEQUATELY SUPPORTED.
11. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
12. ALL GROUND CONNECTIONS ABOVE GRADE (INTERIOR AND EXTERIOR) SHALL BE FORMED USING HIGH PRESS CRIMPS.
13. COMPRESSION GROUND CONNECTIONS MAY BE REPLACED BY EXOTHERMIC WELD CONNECTIONS.
14. ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO THE BRIDGE AND THE TOWER GROUND BAR.
15. APPROVED ANTIOXIDANT COATINGS (I.E. CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
16. ALL EXTERIOR GROUND CONNECTIONS SHALL BE COATED WITH A CORROSION RESISTANT MATERIAL.
17. MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.
18. BOND ALL METALLIC OBJECTS WITHIN 6 FT. OF MAIN GROUND WIRES WITH 1-#2 AWG TIN-PLATED COPPER GROUND CONDUCTOR.
19. GROUND CONDUCTORS USED IN THE FACILITY GROUND AND LIGHTNING PROTECTION SYSTEMS SHALL NOT BE ROUTED THROUGH METALLIC OBJECTS THAT FORM A RING AROUND THE CONDUCTOR, SUCH AS METALLIC CONDUITS, METAL SUPPORT CLIPS OR SLEEVES THROUGH WALLS OR FLOORS, WHEN IT IS REQUIRED TO BE HOUSED IN CONDUIT TO MEET CODE REQUIREMENTS OR LOCAL CONDITIONS, NON-METALLIC MATERIAL SUCH AS PVC PLASTIC CONDUIT SHALL BE USED. WHERE USE OF METAL CONDUIT IS UNAVOIDABLE (E.G., NONMETALLIC CONDUIT PROHIBITED BY LOCAL CODE) THE GROUND CONDUCTOR SHALL BE BONDED TO EACH END OF THE METAL CONDUIT.
20. ALL GROUNDS THAT TRANSITION FROM BELOW GRADE TO ABOVE GRADE MUST BE #2 TINNED SOLID IN 3/4" LIQUID TIGHT CONDUIT FROM 24" BELOW GRADE TO WITHIN 3" TO 6" OF CAD-WELD TERMINATION POINT. THE EXPOSED END OF THE LIQUID TIGHT CONDUIT MUST BE SEALED WITH SILICONE CAULK. (ADD TRANSITIONING GROUND STANDARD DETAIL AS WELL).

NEC INSULATOR COLOR CODE		
DESCRIPTION	PHASE/CODE LETTER	WIRE COLOR
240/120 1Ø	LEG 1	BLACK
	LEG 2	RED
AC NEUTRAL	N	WHITE
GROUND (EGC)	G	GREEN
VDC POS	+	*RED-POLARITY MARK AT TERMINATION
VDC NEG	-	*BLACK-POLARITY MARK AT TERMINATION
	PHASE A	BLACK
240V OR 208V, 3Ø	PHASE B	RED(OR, IF HI LEG)
	PHASE C	BLUE
	PHASE A	BROWN
480V, 3Ø	PHASE B	ORANGE
	PHASE C	YELLOW

* SEE NEC 210.5(C)(1) AND (2)

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 ENGLEWOOD, CO 80112

T-MOBILE SITE NUMBER:
SL01122A

BU #: 822343
ALPINE_SHEPHERD_HILL

651 S BATEMAN
 ALPINE, UT 84004

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	01/11/17	NJH	PRELIMINARY	CTR
B	01/26/17	NJH	CONSTRUCTION	RAB

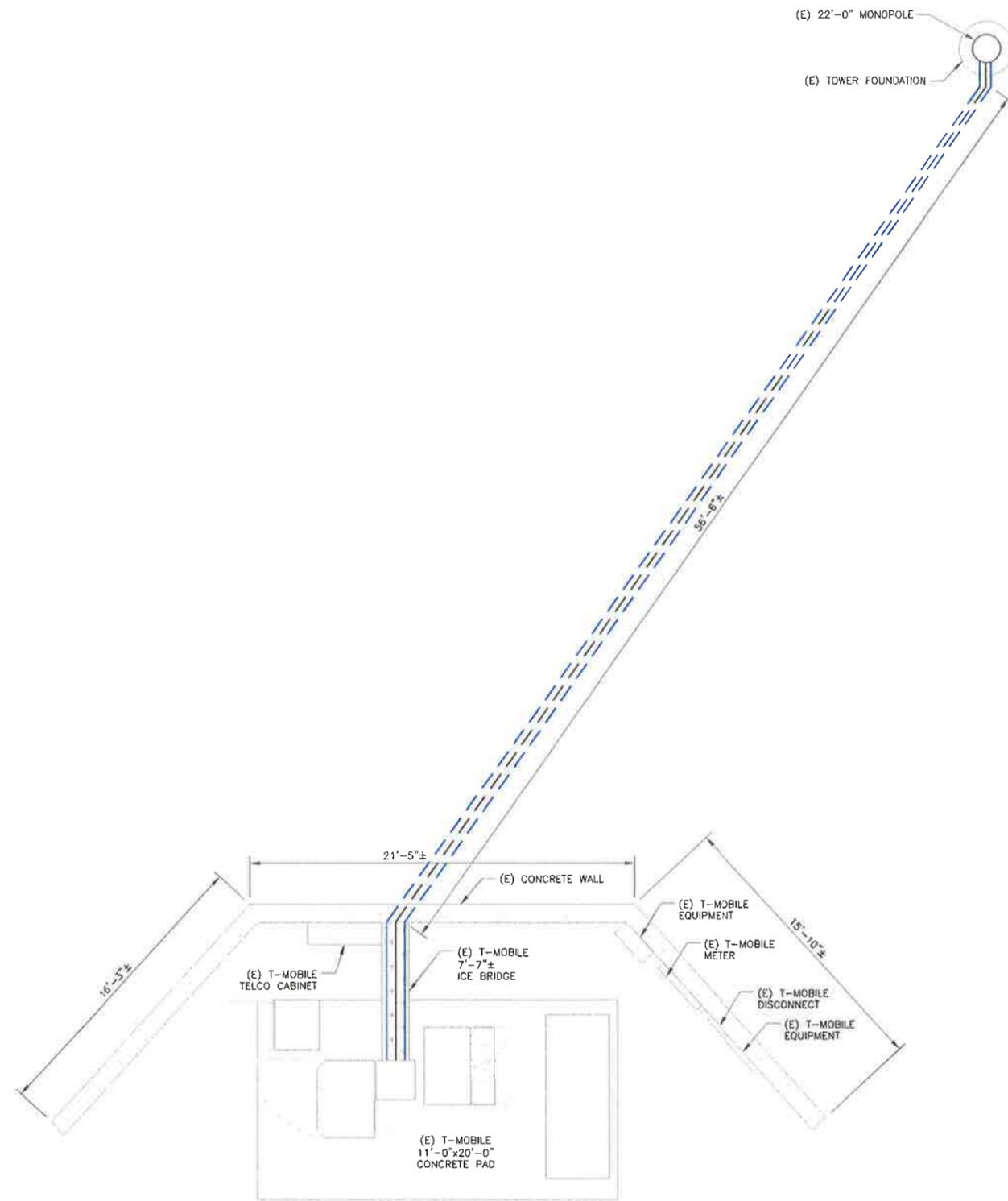
Richard A. Boelter, P.E.
 No. 8391999
 RICHARD A. BOELTER
 PROFESSIONAL ENGINEER
 STATE OF UTAH

1/26/2017 10:24:49 AM EST

Richard A. Boelter, P.E.
 Professional Engineer License: #5391999

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ALPINE_SHEPHERD_HILL
 651 S BATEMAN
 ALPINE, UT 84004
 EXISTING 22'-0" MONOPOLE

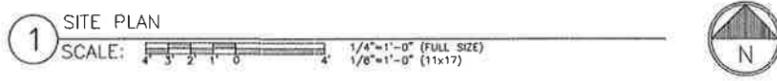
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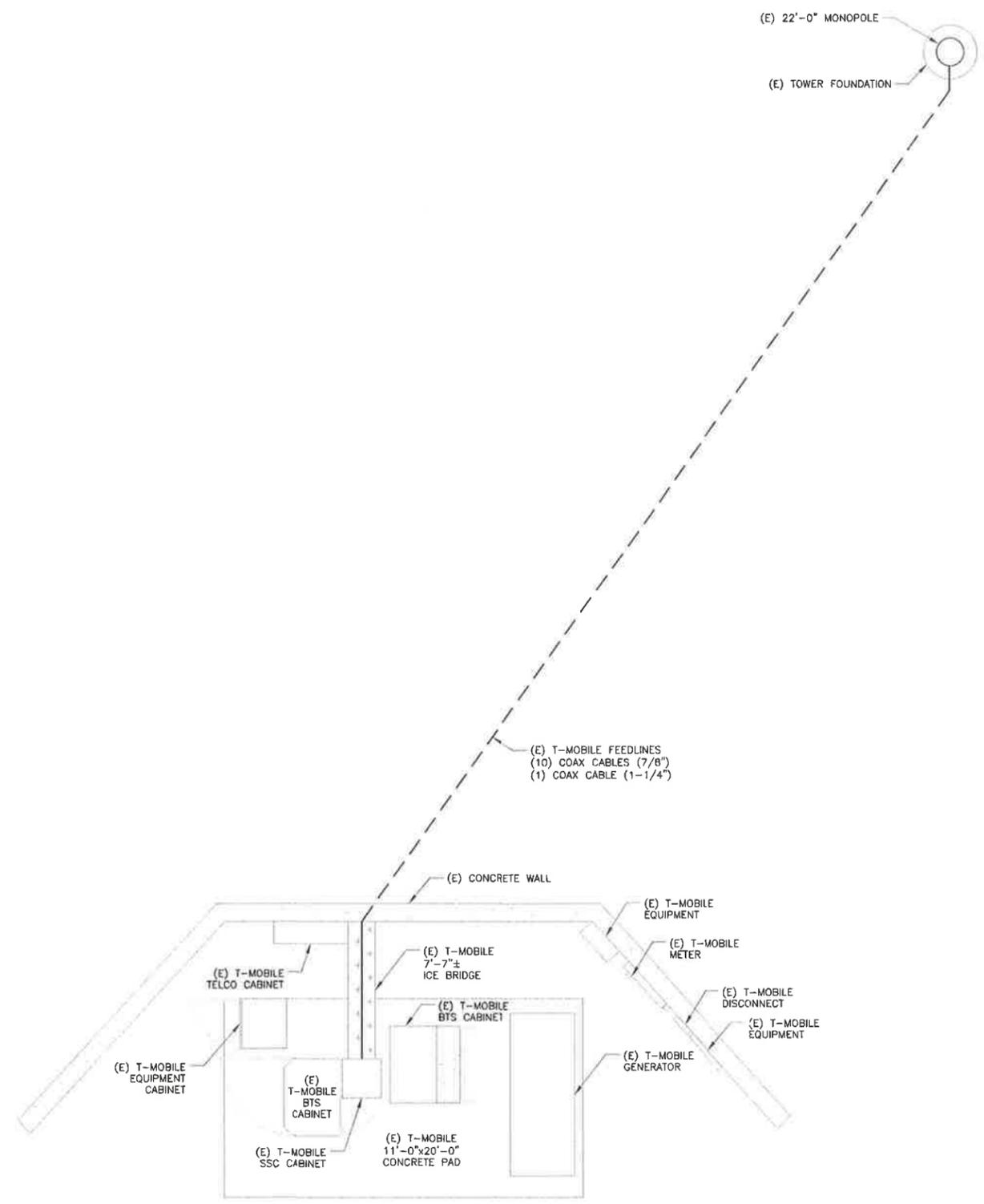


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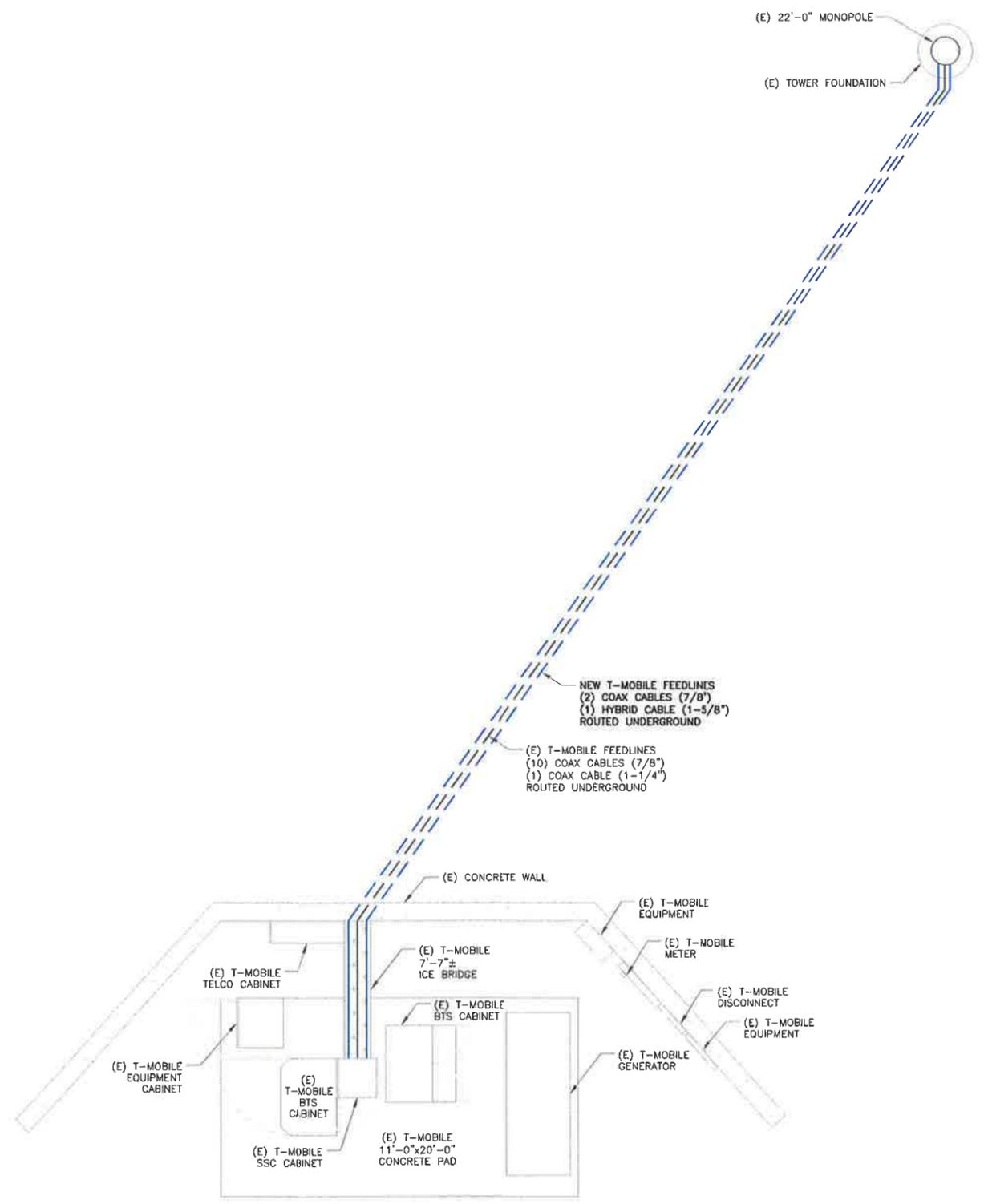
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1 EXISTING EQUIPMENT LAYOUT PLAN
 SCALE: 1/4"=1'-0" (FULL SIZE)
 1/8"=1'-0" (11x17)



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

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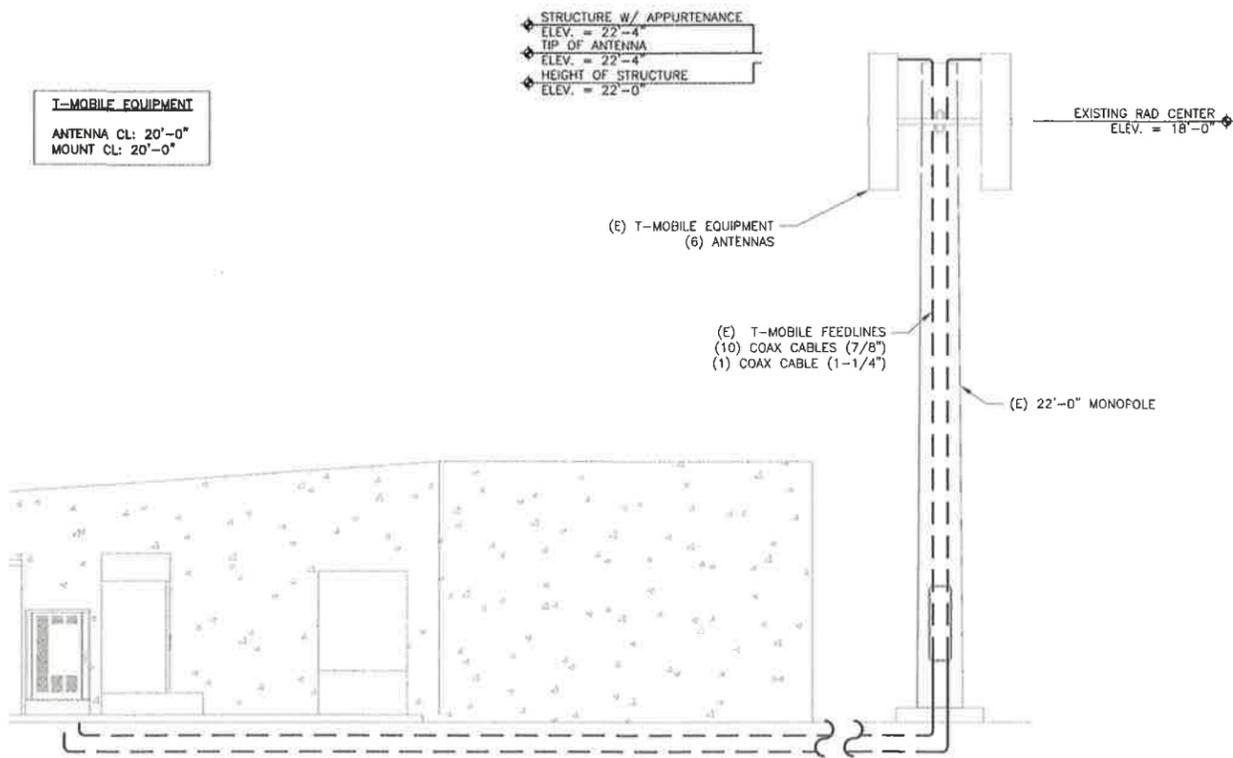
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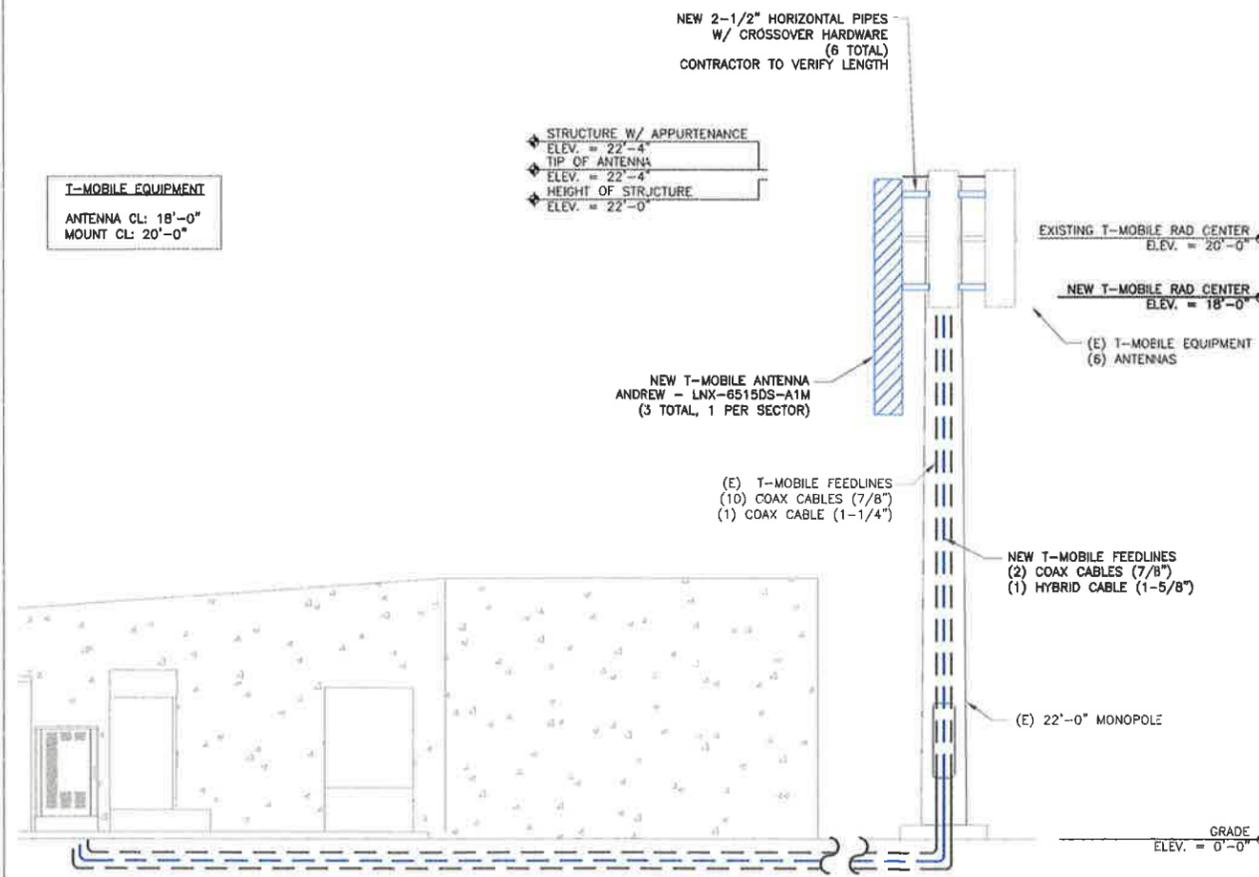
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Professional Engineer Seal:
 No. 8391999
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 STATE OF UTAH
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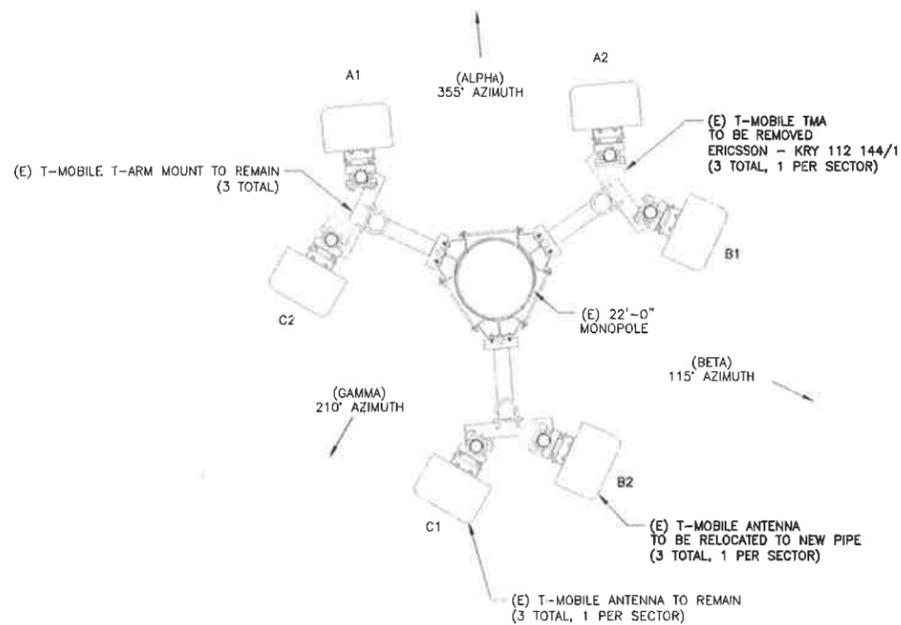
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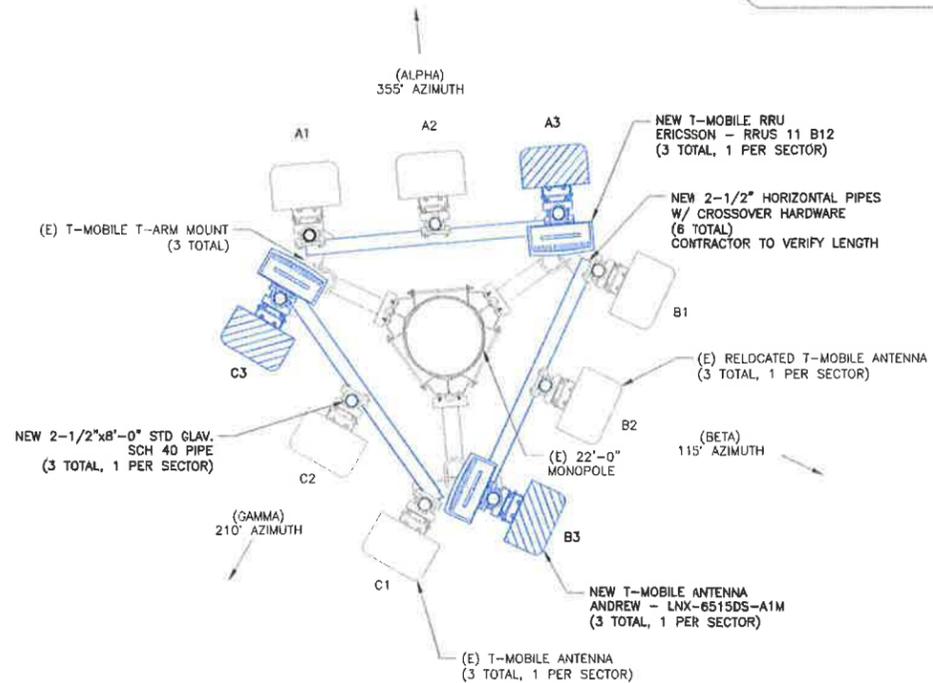
1 EXISTING ELEVATION
 SCALE: NOT TO SCALE



2 FINAL ELEVATION
 SCALE: NOT TO SCALE



1 EXISTING ANTENNA LAYOUT
SCALE: NOT TO SCALE



INSTALLER NOTE:
REPLACE EXISTING PIPE MOUNTS WITH NEW 2-1/2" STD (2-7/8" O.D.) GALV. SCH 40 PIPE AS REQ'D.

2 NEW ANTENNA LAYOUT
SCALE: NOT TO SCALE



3 ANTENNA PHOTO
SCALE: NOT TO SCALE

ANTENNA SCHEDULE										
SECTOR	POS.	TECHNOLOGY	RAD CENTER	AZIMUTH	ANTENNA MANUFACTURER	ANTENNA MODEL	MECH. TILT	ELECT. TILT	TOWER MOUNTED EQUIPMENT	FEEDLINE TYPE
ALPHA	A1	(UMTS/GSM) PCS	20'-0"	355°	ERICSSON	AIR 21 B2A B4P	0°	1°		COAX/HYBRID
ALPHA	A2	LTE AWS	20'-0"	355°	ERICSSON	AIR 21 B2A B4P	0°	1°		HYBRID
ALPHA	A3	LTE 700	18'-0"	355°	ANDREW	LNX-6515DS-A1M	0°	1°	(1) ERICSSON - RRUS 11 B12	COAX/HYBRID
BETA	B1	(UMTS/GSM) PCS	20'-0"	115°	ERICSSON	AIR 21 B2A B4P	0°	0°		COAX/HYBRID
BETA	B2	LTE AWS	20'-0"	115°	ERICSSON	AIR 21 B2A B4P	0°	0°		HYBRID
BETA	B3	LTE 700	18'-0"	115°	ANDREW	LNX-6515DS-A1M	0°	0°	(1) ERICSSON - RRUS 11 B12	COAX/HYBRID
GAMMA	C1	(UMTS/GSM) PCS	20'-0"	210°	ERICSSON	AIR 21 B2A B4P	0°	4°		COAX/HYBRID
GAMMA	C2	LTE AWS	20'-0"	210°	ERICSSON	AIR 21 B2A B4P	0°	6°		HYBRID
GAMMA	C3	LTE 700	18'-0"	210°	ANDREW	LNX-6515DS-A1M	0°	6°	(1) ERICSSON - RRUS 11 B12	COAX/HYBRID

4 ANTENNA SCHEDULE
SCALE: NOT TO SCALE

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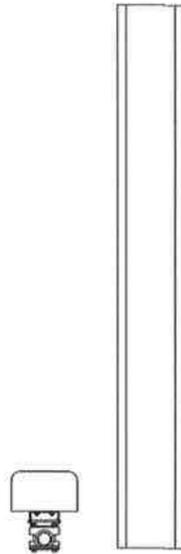
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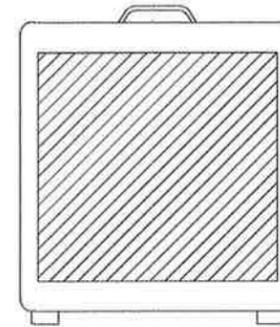
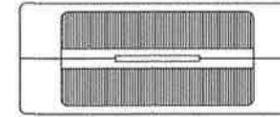
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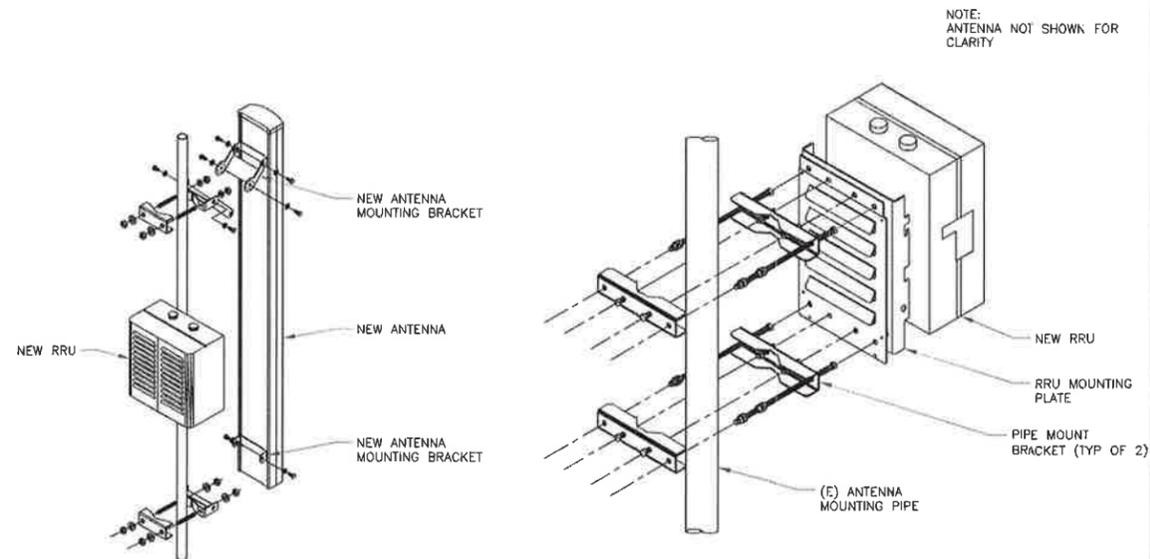
ANDREW - LNX-6515DS-A1M
 WEIGHT (WITHOUT MOUNTING HARDWARE): 43.7 LBS
 SIZE (HxWxD): 96.60x11.90x7.10 IN.
 MOUNTING HARDWARE P/N: DB380-3 & DB5063D
 RATED WIND VELOCITY: 149.8 MPH

1 ANDREW - LNX-6515DS-A1M
 SCALE: NOT TO SCALE



ERICSSON - RRUS 11 B12
 WEIGHT (FULLY EQUIPPED): 50.7 LBS
 SIZE (HxWxD): 19.7x17x7.2 IN.

2 ERICSSON - RRUS 11 B12
 SCALE: NOT TO SCALE



NOTE:
 ALL PIPES BRACKETS
 AND MISCELLANEOUS
 HARDWARE TO BE
 GALVANIZED UNLESS
 NOTED OTHERWISE

3 ANTENNA & RRU MOUNTING DETAIL
 SCALE: NOT TO SCALE

4 NOT USED
 SCALE: NOT TO SCALE

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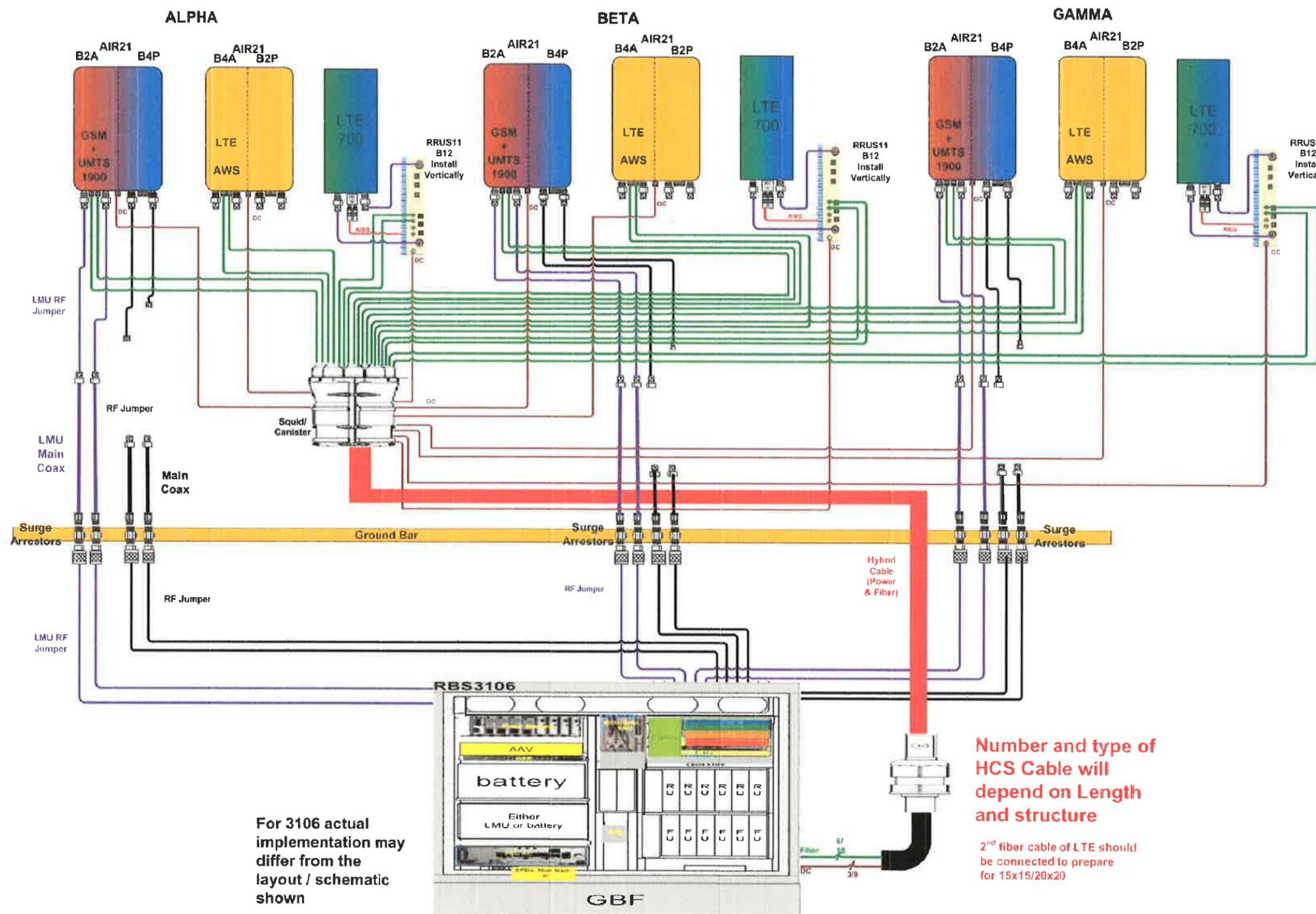
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Site Configuration 702Cu – AIR Based with RBS3106



For 3106 actual implementation may differ from the layout / schematic shown

Number and type of HCS Cable will depend on Length and structure

2nd fiber cable of LTE should be connected to prepare for 15x15/20x20

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1 PLUMBING DIAGRAM
 SCALE: NOT TO SCALE

SHEET NUMBER: **C-5** REVISION: **0**

Section 1 - Site Information

Site ID: SL01122A	Site Name: Alpine_Shepherd_Hill	Latitude: 40.44413936
Status: Final	Site Class: Monopole	Longitude: -111.77955800
Version: 1.1	Site Type: Structure Non Building	Address: 651 S Bateman
Project Type: L700	Solution Type:	City, State: Alpine, UT
Approved: 8/4/2016 1:46:01 PM	Plan Year:	Region: WEST
Approved By: GSM1600S/Shahne	Market: SALT LAKE CITY UT	
Last Modified: 8/4/2016 1:46:01 PM	Vendor: Ericsson	
Last Modified By: GSM1600S/Shahne	Location: Crown Castle-T3	

RAN Template: 702Cu Outdoor AL Template: 702Cu
 Sector Count: 3 Antenna Count: 9 Coax Line Count: 12 TMA Count: 0 RRU Count: 3

Proposed RAN Equipment	
Template: 702Cu Outdoor	
Enclosure	1
Enclosure Type	RBS 6131
Baseband	DUS41 (L2100) DLN20 (U1900) DUS20 (G1900)
Hybrid Cable System	Ericsson 9x18 HCS 40m
Multiplexer	XMU

Sector 1 (Proposed) view from behind					
Coverage Type	1		2		3
Antenna	1		2		3
Antenna Model	AR21 B2A/B4P (Quad)		AR21 B4A/B2P (Quad)		LNK-6515DS-A1M (Dual)
Azimuth	355		355		355
M. Tilt	0		0		0
Height	24		24		24
Ports	P1	P2	P3	P4	P5
Active Tech.	U1900	G1900	L2100		L700
Dark Tech.					
Restricted Tech.					
Decomm. Tech.					
E. Tilt	0		0		0
Cables	Fiber Jumper - 32 ft Fiber Jumper - 32 ft 7/8" Coax - 100 ft 7/8" Coax - 100 ft	7/8" Coax - 100 ft	Fiber Jumper - 32 ft		Fiber Jumper - 32 ft Fiber Jumper - 32 ft Coax Jumper - 10 ft Coax Jumper - 10 ft
TMA's					
Diplexers / Combiners					
Radio					RRUS11 B12
Sector Equipment	TRX	TRX			

Unconnected Equipment:

Scope of Work:
Removal of AWS TMA's require that the main lines on P2 be weatherproofed

Sector 2 (Proposed) view from behind					
Coverage Type	1		2		3
Antenna	1		2		3
Antenna Model	AR21 B2A/B4P (Quad)		AR21 B4A/B2P (Quad)		LNK-6515DS-A1M (Dual)
Azimuth	115		115		115
M. Tilt	0		0		0
Height	24		24		24
Ports	P1	P2	P3	P4	P5
Active Tech.	U1900	G1900	L2100		L700
Dark Tech.					
Restricted Tech.					
Decomm. Tech.					
E. Tilt	0		0		0
Cables	Fiber Jumper - 32 ft Fiber Jumper - 32 ft 7/8" Coax - 100 ft 7/8" Coax - 100 ft	7/8" Coax - 100 ft	Fiber Jumper - 32 ft		Fiber Jumper - 32 ft Fiber Jumper - 32 ft Coax Jumper - 10 ft Coax Jumper - 10 ft
TMA's					
Diplexers / Combiners					
Radio					RRUS11 B12
Sector Equipment	TRX	TRX			

Unconnected Equipment:

Scope of Work:
Removal of AWS TMA's require that the main lines on P2 be weatherproofed

Sector 3 (Proposed) view from behind					
Coverage Type	1		2		3
Antenna	1		2		3
Antenna Model	AR21 B2A/B4P (Quad)		AR21 B4A/B2P (Quad)		LNK-6515DS-A1M (Dual)
Azimuth	210		240		240
M. Tilt	0		0		0
Height	24		24		24
Ports	P1	P2	P3	P4	P5
Active Tech.	U1900	G1900	L2100		L700
Dark Tech.					
Restricted Tech.					
Decomm. Tech.					
E. Tilt	0		0		0
Cables	Fiber Jumper - 32 ft Fiber Jumper - 32 ft 7/8" Coax - 100 ft 7/8" Coax - 100 ft	7/8" Coax - 100 ft	Fiber Jumper - 32 ft		Fiber Jumper - 32 ft Fiber Jumper - 32 ft Coax Jumper - 10 ft Coax Jumper - 10 ft
TMA's					
Diplexers / Combiners					
Radio					RRUS11 B12
Sector Equipment	TRX	TRX			

Unconnected Equipment:

Scope of Work:
Removal of AWS TMA's require that the main lines on P2 be weatherproofed

1 RFDS SCALE: NOT TO SCALE



T-MOBILE SITE NUMBER:
SL01122A

BU #: 822343
ALPINE_SHEPHERD_HILL

651 S BATEMAN
ALPINE, UT 84004

EXISTING 22'-0" MONOPOLE

ISSUED FOR:				
REV	DATE	DRWN	DESCRIPTION	DES./QA
A	01/11/17	NJH	PRELIMINARY	CTR
0	01/26/17	NJH	CONSTRUCTION	RAB

Professional Engineer Seal for Richard A. Boelter, No. 6391999, State of Utah.

1/26/2017 | 10:24:49 AM EST

Richard A. Boelter, P.E.
Professional Engineer License: #5391999

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 SUITE 330
 DRAPER UT. 84020

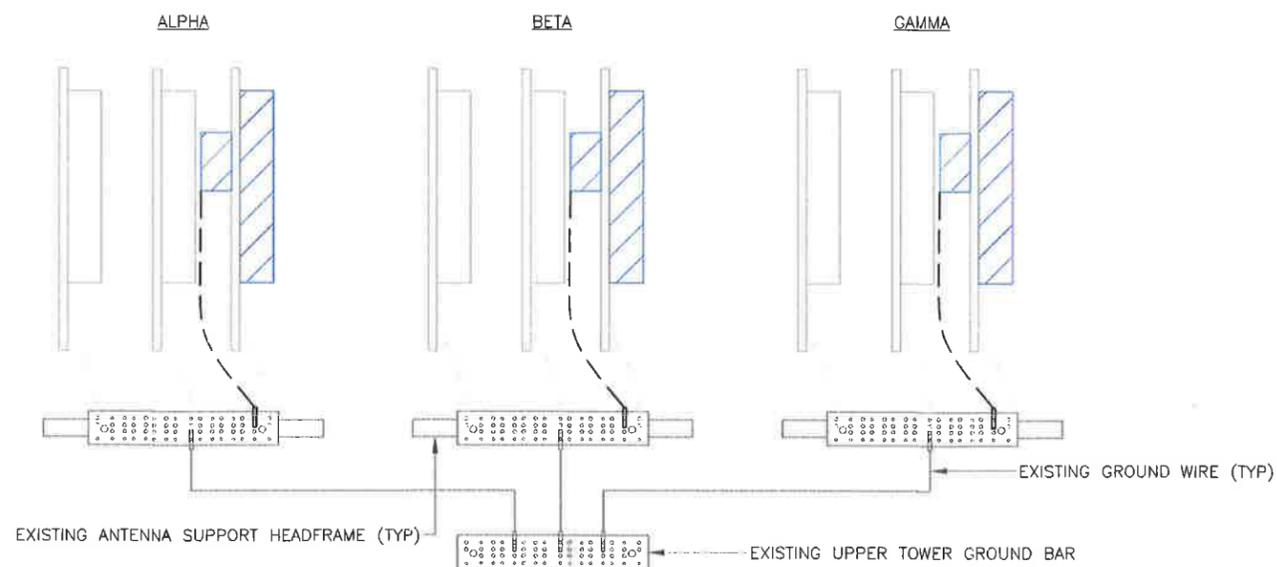
CROWN CASTLE
 116 INVERNESS DR. EAST STE# 280
 ENGLEWOOD, CO 80112

T-MOBILE SITE NUMBER:
SL01122A

BU #: **822343**
ALPINE_SHEPHERD_HILL

651 S BATEMAN
 ALPINE, UT 84004

EXISTING 22'-0" MONOPOLE



1 ANTENNA GROUND DIAGRAM
 SCALE: NOT TO SCALE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	01/11/17	NJH	PRELIMINARY	CTR
0	01/26/17	NJH	CONSTRUCTION	RAB

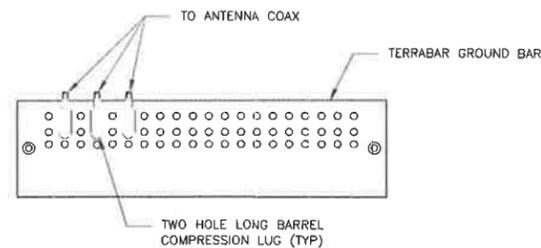


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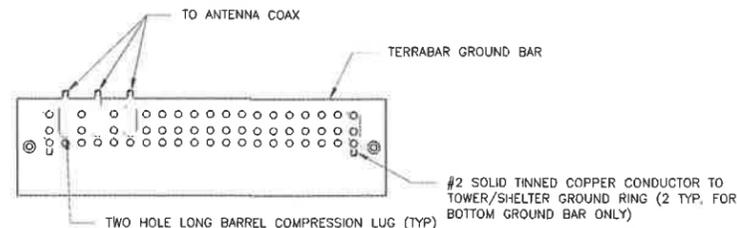
SHEET NUMBER: **G-1** REVISION: **0**



NOTES:

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

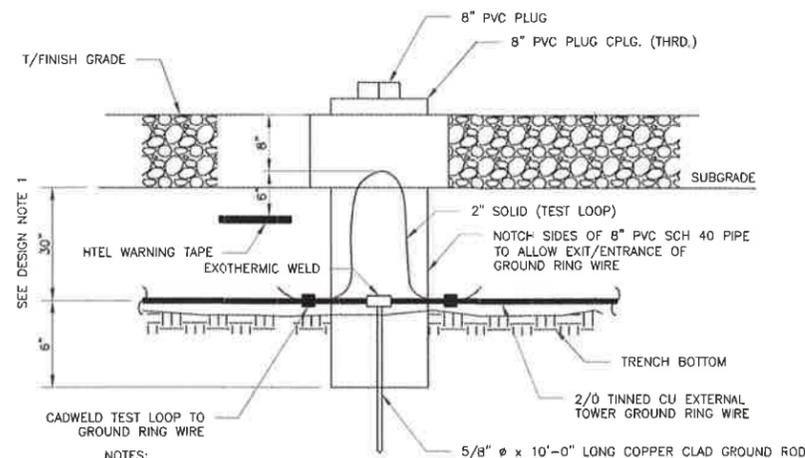
1 ANTENNA GROUND BAR DETAIL
SCALE: NOT TO SCALE



NOTES:

1. EXTERIOR ANTIOXIDANT JOINT COMPOUND TO BE USED ON ALL EXTERIOR CONNECTIONS.
2. GROUND BAR SHALL NOT BE ISOLATED FROM TOWER. MOUNT DIRECTLY TO TOWER STEEL (TOWER ONLY).
3. INSTALL GROUND BARS AT 75 FT. INTERVAL MAXIMUM.
4. GROUND BAR SHALL BE ISOLATED FROM BUILDING OR SHELTER.

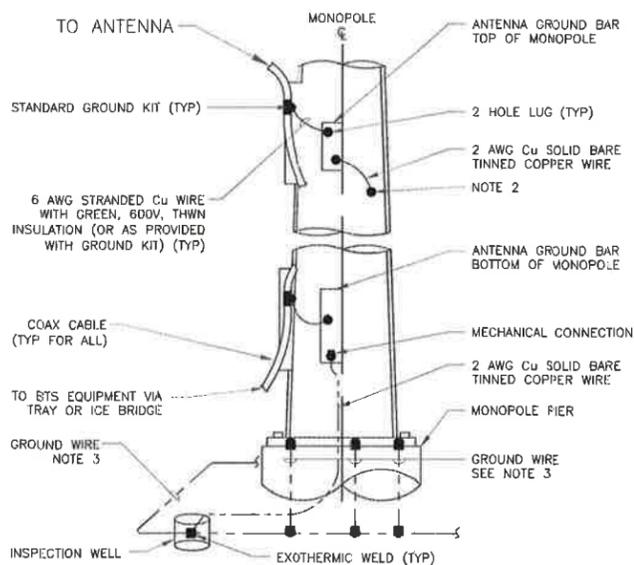
2 TOWER/SHELTER GROUND BAR DETAIL
SCALE: NOT TO SCALE



NOTES:

1. GROUND ROD SHALL BE DRIVEN VERTICALLY, NOT TO EXCEED 45 DEGREES FROM THE VERTICAL.
2. GROUND WIRE SHALL BE MIN. 30" BELOW GRADE OR 6" BELOW FROST LINE. (WHICH EVER IS GREATER) AS PER N.E.C. ARTICLE 250-50(D).

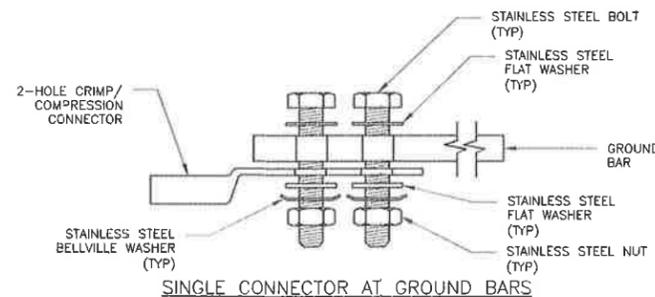
3 INSPECTION PORT DETAIL
SCALE: NOT TO SCALE



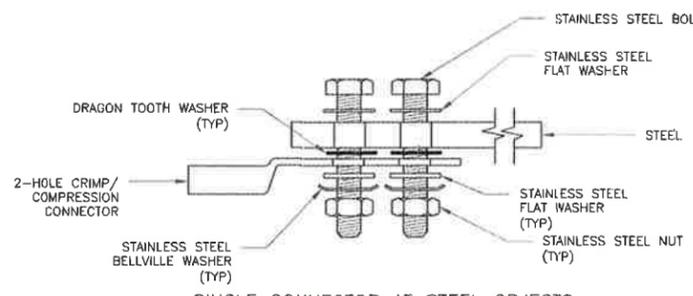
NOTES:

1. NUMBER OF GROUND BARS MAY VARY DEPENDING ON THE TYPE OF MONOPOLE, ANTENNA LOCATION AND CONNECTION ORIENTATION. COAXIAL CABLES EXCEEDING 200 FEET IN/ON THE POLE SHALL HAVE GROUND KITS AT THE MIDPOINT, PROVIDE AS REQUIRED.
2. ONLY MECHANICAL CONNECTIONS ARE ALLOWED TO BE MADE TO CROWN CASTLE TOWERS. ALL MECHANICAL CONNECTIONS SHALL BE TREATED WITH AN ANTI-OXIDANT COATING.
3. ALL TOWER GROUNDING SYSTEMS SHALL COMPLY WITH THE REQUIREMENTS OF ANSI/TIA 222. FOR TOWERS BEING BUILT TO REV G OF THE STANDARD, THE WIRE SIZE OF THE BURIED GROUND RING AND CONNECTIONS BETWEEN THE TOWER AND THE BURIED GROUND RING SHALL BE 2/0 AWG. STRANDED IN ADDITION, THE MINIMUM LENGTH OF THE GROUND RODS SHALL BE INCREASED FROM 8 FEET TO 10 FEET.

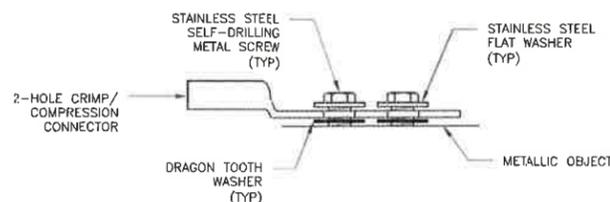
4 TYPICAL ANTENNA CABLE GROUNDING
SCALE: NOT TO SCALE



SINGLE CONNECTOR AT GROUND BARS

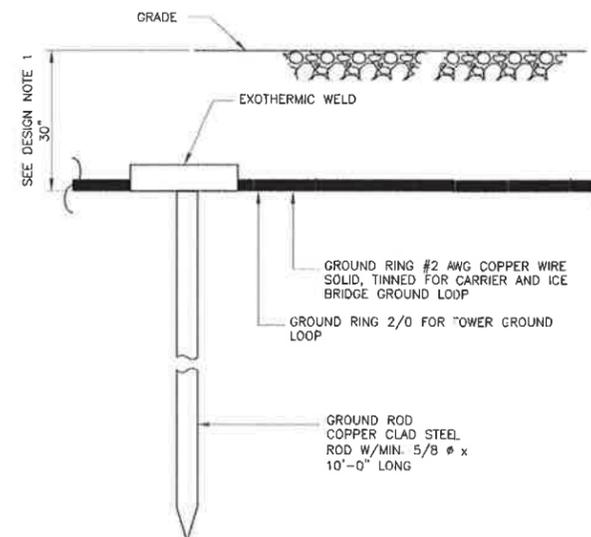


SINGLE CONNECTOR AT STEEL OBJECTS



SINGLE CONNECTOR AT METALLIC/STEEL OBJECTS

5 HARDWARE DETAIL FOR EXTERIOR CONNECTIONS
SCALE: NOT TO SCALE



NOTES:

1. GROUND ROD SHALL BE DRIVEN VERTICALLY, NOT TO EXCEED 45 DEGREES FROM THE VERTICAL.
2. GROUND WIRE SHALL BE MIN. 30" BELOW GRADE OR 6" BELOW FROST LINE. (WHICH EVER IS GREATER) AS PER N.E.C. ARTICLE 250-50(D).

6 GROUND ROD DETAIL
SCALE: NOT TO SCALE

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

CROWN CASTLE
116 INVERNESS DR. EAST STE.# 280
ENGLEWOOD, CO 80112

T-MOBILE SITE NUMBER:
SL01122A

BU #: **822343**
ALPINE_SHEPHERD_HILL

651 S BATEMAN
ALPINE, UT 84004

EXISTING 22'-0" MONOPOLE

ISSUED FOR:

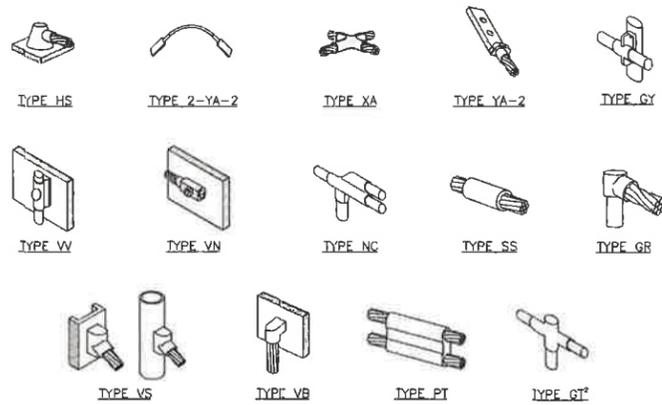
REV	DATE	DRWN	DESCRIPTION	DES./QA
A	01/11/17	NJH	PRELIMINARY	CTR
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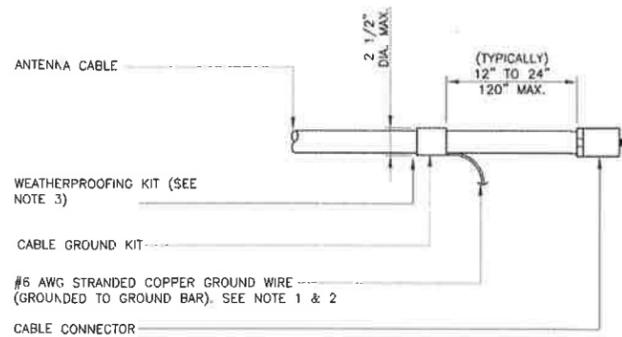
Richard A. Boelter, P.E.
Professional Engineer License: #5391999
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SHEET NUMBER: **G-2** REVISION: **0**



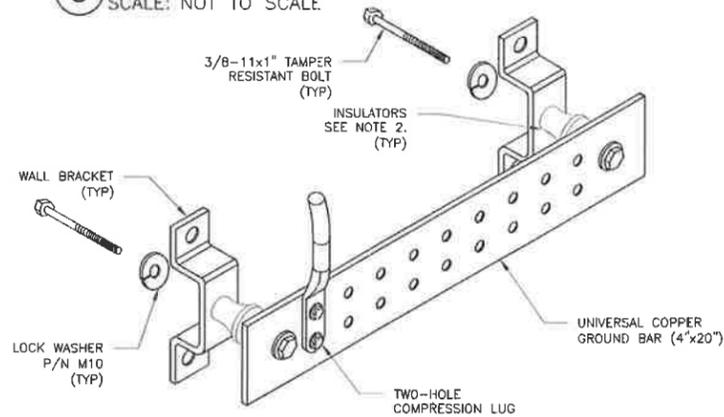
- NOTE:**
1. ERICO EXOTHERMIC "MOLD TYPES" SHOWN HERE ARE EXAMPLES. CONSULT WITH CONSTRUCTION MANAGER FOR SPECIFIC MOLDS TO BE USED FOR THIS PROJECT.
 2. MOLD TYPE ONLY TO BE USED BELOW GRADE WHEN CONNECTING GROUND RING TO GROUND ROD.

1 CADWELD GROUNDING CONNECTIONS
SCALE: NOT TO SCALE



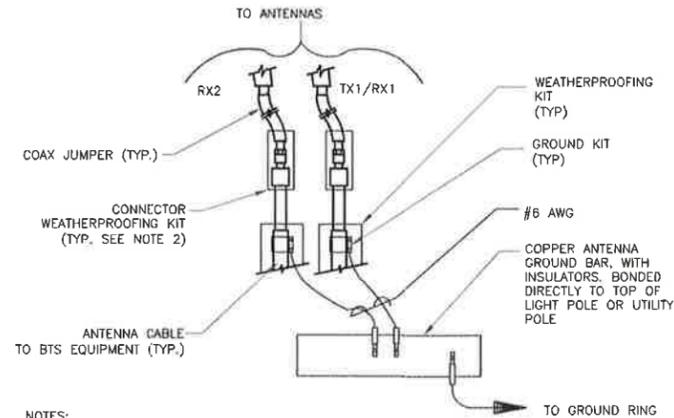
- NOTES:**
1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
 2. GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.
 3. WEATHER PROOFING SHALL BE TWO-PART TAPE KIT. COLD SHRINK SHALL NOT BE USED.

3 CABLE GROUND KIT CONNECTION
SCALE: NOT TO SCALE



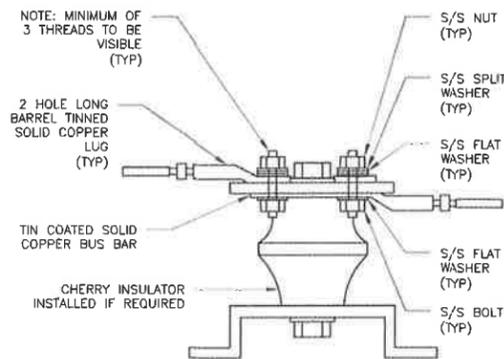
- NOTES:**
1. DOWN LEAD (HOME RUN) CONDUCTORS ARE NOT TO BE INSTALLED ON CROWN CASTLE TOWER, PER THE GROUNDING DOWN CONDUCTOR POLICY QAS-STD-10091. NO MODIFICATION OR DRILLING TO TOWER STEEL IS ALLOWED IN ANY FORM OR FASHION, CAD-WELDING ON THE TOWER AND/OR IN THE AIR ARE NOT PERMITTED.
 2. OMIT INSULATOR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

6 GROUND BAR DETAIL
SCALE: NOT TO SCALE



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

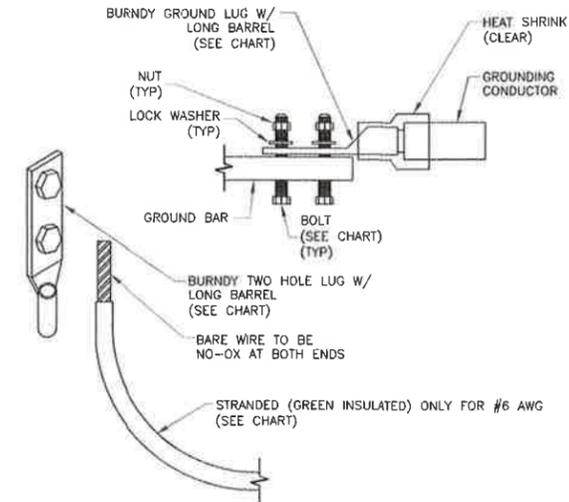
4 GROUND CABLE CONNECTION
SCALE: NOT TO SCALE



NOTE: MINIMUM OF 3 THREADS TO BE VISIBLE (TYP)

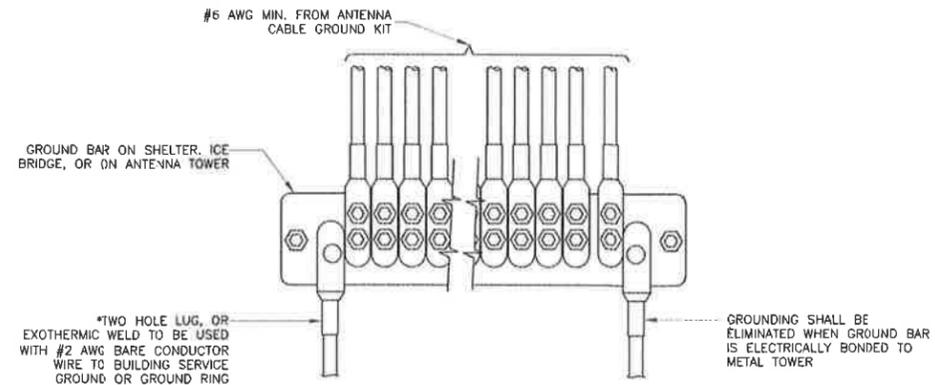
7 LUG DETAIL
SCALE: NOT TO SCALE

WIRE SIZE	BURNDY LUG	BOLT SIZE
#6 AWG GREEN INSULATED	YA6C-2TC38	3/8" - 16 NC S 2 BOLT
#2 AWG SOLID TINNED	YA3C-2TC38	3/8" - 16 NC S 2 BOLT
#2 AWG STRANDED	YA2C-2TC38	3/8" - 16 NC S 2 BOLT
#2/0 AWG STRANDED	YA2B-2TC38	3/8" - 16 NC S 2 BOLT
#4/0 AWG STRANDED	YA2B-2N	1/2" - 16 NC S 2 BOLT

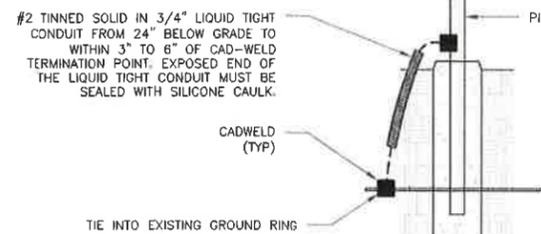


- NOTES:**
1. ALL GROUNDING LUGS ARE TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS. ALL HARDWARE BOLTS, NUTS, LOCK WASHERS SHALL BE STAINLESS STEEL. ALL HARDWARE ARE TO BE AS FOLLOWS: BOLT, FLAT WASHER, GROUND BAR, GROUND LUG, FLAT WASHER AND NUT.

2 MECHANICAL LUG CONNECTION
SCALE: NOT TO SCALE



5 GROUNDWIRE INSTALLATION
SCALE: NOT TO SCALE



8 TRANSITIONING GROUND DETAIL
SCALE: NOT TO SCALE

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EXISTING 22'-0" MONOPOLE

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SHEET NUMBER: G-3 **REVISION:** 0

RESOLUTION NO. R2017-05

**A RESOLUTION OF THE ALPINE CITY COUNCIL APPOINTING MEMBER
REPRESENTATIVE AND ALTERNATE REPRESENTATIVE
Utah Valley Dispatch Special Service District**

WHEREAS, the Board of County Commissioners of Utah County and several cities in Utah County initiated proceedings to create a special service district to provide consolidated 911 and emergency dispatch services within Utah County to be known as the Utah Valley Dispatch Special Service District (the "District"); and

WHEREAS, the Alpine City Council adopted Resolution 2008-05 which consented to the inclusion of area within Alpine City; and

WHEREAS, the District will be governed by a Board of Directors and the Alpine City Council desires to make a representative appointment to that Board; and

WHEREAS, all noticing required for vacancy on the Board has been followed pursuant to Utah State Code.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF ALPINE, UTAH, as follows:

1. That Jason Bond, Alpine City Planner is hereby appointed as the representative to the Utah Valley Dispatch Special Service District, together with such alternate or alternates as shall be appointed.
1. That Shane Sorensen, Alpine City Administrator is hereby appointed as the alternate representative to the Utah Valley Dispatch Special Service District, together with such alternate or alternates as shall be appointed.
2. That this resolution shall remain in effect until repealed by another resolution appointing a different representative to the Utah Valley Dispatch Special Service District.
3. The provisions of this resolution shall take effect immediately upon passage.

PASSED and APPROVED this 28th day of February, 2017.

ALPINE CITY

Sheldon Wimmer, Mayor

ATTEST:

Charmayne G. Warnock, City Recorder

ALPINE CITY COUNCIL AGENDA

SUBJECT: 2017 Municipal Election

FOR CONSIDERATION ON: 28 February 2017

PETITIONER: Charmayne Warnock

ACTION REQUESTED BY PETITIONER: Consider contracting with Utah County for the 2017 Election

BACKGROUND INFORMATION:

In 2015 Utah County conducted a vote-by-mail (VBM) election for several of the cities in the county because the county had a sales tax issue on the ballot. The response to the VBM election was very positive, especially in terms of voter turnout. Alpine's turnout increased from an average of 23% to 48%. Provo City went from a 7% voter turnout to a 30% turnout. Vineyard had a 68% turnout. A mother with young children called city hall in tears and said it was the first time she'd been able to vote in years. Standing in two-hour lines doesn't work for some people, especially as people get busier and travel more. Plus, it gets harder to find poll workers as more women join the work force.

Several weeks ago, the County Clerk Auditor Bryan Thompson met with all the city recorders in the county, and offered to conduct a VBM elections for all the cities. The county's voting equipment is getting old and in need of replacement, but rather than investing in old technology, they are looking toward county-wide VBM elections. The county receives a reduced postal rate of \$0.122 per ballot so it is a substantial savings for the cities in terms of mailing costs. Ballots would be counted by optical scan machines which is much faster than counting paper ballots.

Each city will still have a voting station on election day where citizens may drop off their ballot if they like or if for some reason they didn't receive a ballot or they lost their ballot, they can vote provisionally. Every registered voter will have an opportunity to vote.

Currently Alpine City has 5,893 registered voters. The cost per voter for the general election would be \$1.36 which would be \$8,014.48. The cost for the primary election, if one is held, would be \$7,543.04. The cost of Alpine City's general election in 2015 was \$8,101.70

Attached is a summary showing the trend of citizens to vote by mail, a memo from the county, and the number of current registered voters in the different cities.

STAFF RECOMMENDATION:

Consider contracting with Utah County to conduct the municipal election for 2017.

Voters Requesting to be on Absentee Voter List

<u>Year</u>	<u>Number of voters</u>
2011	101
2013	409
2015	1300+



Bryan E. Thompson, Clerk/Auditor
100 E Center, Suite 3600
Provo, UT 84606

(801) 851-8109
(801) 851-8232 - fax

Scott C. Hogensen, Chief Deputy
100 E Center, Suite 3100
Provo, UT 84606

(801) 851-8128
(801) 851-8122 - fax

MEMO

February 8, 2017

RE: 2017 Municipal Election Options & Cost

In 2015 Utah County administered both vote by mail (VBM) and traditional polling place Elections for the municipalities who contracted with us. In 2017 Utah County intends to administer only one type of Election for those that choose to contract with us.

Given the interest expressed in VBM we have prepared an estimate for this type of Election. The main assumptions for this are listed below the costs quoted below.

VBM Primary Election **\$1.28 per active voter as of 2/3/17**

VBM General Election **\$1.36 per active voter as of 2/3/17**

This is for an all by mail (VBM) Election conducted on the latest equipment provided by Dominion Voting Systems. Printing and mailing services are to be provided by K&H Integrated Printers, our long time VBM vendor. This includes both outbound and return postage.

Voter Registration - Active Only

COUNT ENTITY

5893 Alpine - All
13413 American Fork - All
197 Cedar Fort Town - All
5190 Cedar Hills - All
11293 Eagle Mountain - All
1682 Elk Ridge - All
78 Fairfield - All
664 Genola - All
344 Goshen Town
9463 Highland - All
26127 Lehi City - All
5648 Lindon City - All
5055 Mapleton - All
41592 Orem - Municipal
7705 Payson City - All
16202 Pleasant Grove Municipa
41547 Provo City - All
3852 Salem City - All
3836 Santaquin - All
11113 Saratoga - All
15589 Spanish Fork - All
13984 Springville - All
1311 Vineyard - All
828 Woodland Hills City - All

Alpine Days 2017 Budget		
Event	Expense	Projected Revenue
Sponsors		\$15,000.00
Fireworks	\$7,000.00	
Fireside	\$300.00	
movie in the park	\$1,000.00	
Car Show	\$500.00	
Drone Races	\$50.00	
Senior Dinner	\$0.00	North Stake
Storytelling	\$200.00	
Pet Show	\$400.00	
Teen Party	\$3,000.00	
Concert/Stage	\$20,000.00	
Family Night Dinner	\$10,000.00	\$10,000.00
Family Night Entertainment	\$1,500.00	
Carnival Friday & Saturday	\$50,000.00	\$40,000.00
Petting Zoo, archery, inflatables, games		
Fish Grab	\$1,200.00	\$800.00
Foam Party	\$1,500.00	\$1,500.00
Chalk Art	\$100.00	\$100.00
t-shirts	\$5,000.00	\$4,000.00
Pickleball	\$1,000.00	\$1,000.00
Mountain Bike Race	\$1,500.00	\$1,500.00
Soccer Tournament	\$500.00	\$500.00
Basketball tournament	\$500.00	\$500.00
5k	\$2,000.00	\$2,000.00
Parade	\$400.00	\$400.00
Boutique		\$4,000.00
Food Vendors		\$2,500.00
Event guide/Postage	\$3,400.00	

2017 Alpine Days Budget Proposal.xlsx - Sheet1

Social Media	\$1,000.00		
Website	\$500.00		
shade tent	\$3,000.00		
Portapotties	\$2,200.00		
Barricades	\$1,500.00		
Supplies	\$600.00		
Sales tax	\$3,000.00		
Incidetals	\$1,600.00		
Staff Overtime	\$5,000.00		
Event Cordinator	\$5,000.00		
Total	\$134,450.00	\$68,800.00	