



**COCHISE COUNTY
COMMUNITY DEVELOPMENT**

"Public Programs... Personal Service"

**COCHISE COUNTY PLANNING DEPARTMENT
COMMERCIAL USE/BUILDING PERMIT/SPECIAL USE PERMIT QUESTIONNAIRE
(TO BE PRINTED IN INK OR TYPED)**

TAX PARCEL NUMBER 407-61-023H

APPLICANT Carmelina Seigliano, Tectonic Engineering for Uniti Towers

ADDRESS 4545 W. Paul Spur Road, Douglas, AZ 85607

CONTACT TELEPHONE NUMBER (520) 241-2388

EMAIL ADDRESS: Cseigliano@TectonicEngineering.com

PROPERTY OWNER (IF OTHER THAN APPLICANT) Larry + Anne Brasher

ADDRESS 3865 W. Highway 80

Douglas, AZ 85607

DATE SUBMITTED _____

Special Use Permit Public Hearing Fee (if applicable)	\$ <u>300.00</u>
Building/Use Permit Fee	\$ _____
Total paid	\$ <u>300.00</u>

PART ONE - REQUIRED SUBMITTALS

1. Cochise County Joint Application (attached).
2. Questionnaire with all questions completely answered (attached).
3. A minimum of (6) copies of a site plan drawn to scale and completed with all the information requested on the attached Sample Site Plan and list of Non-residential Site Plan Requirements. **(Please note that nine (9) copies will be required for projects occurring inside the Uniform Building Code enforcement area. In addition, if the site plan is larger than 11 by 17 inches, please provide one reduced copy.)**
4. Proof of ownership/agent. If the applicant is not the property owner, provide a notarized letter from the property owner stating authorization of the Commercial Building/Use/Special Use Application.
5. Proof of Valid Commercial Contractor's License. (Note: any building used by the public and/or employees must be built by a Commercial Contractor licensed in the State of Arizona.)

6. Hazardous or Polluting Materials Questionnaire, if applicable.

OTHER ATTACHMENTS THAT MAY BE REQUIRED DEPENDING ON THE SCOPE OF THE PROJECT

1. Construction Plans (possibly stamped by a licensed Engineer or Architect)
2. Off-site Improvement Plans
3. Soils Engineering Report
4. Landscape Plan
5. Hydrology/Hydraulic Report
6. Traffic Impact Analysis (TIA): **Where existing demonstrable traffic problems have already been identified such as high number of accidents, substandard road design or surface, or the road is near or over capacity, the applicant may be required to submit additional information on a TIA.**
7. Material Safety Data Sheets
8. Extremely Hazardous Materials Tier Two Reports
9. Detailed Inventory of Hazardous or Polluting Materials along with a Contingency Plan for spills or releases

The Commercial Permit Coordinator/Planner will advise you as soon as possible if and when any of the above attachments are required.

PART TWO - QUESTIONNAIRE

In the following sections, thoroughly describe the proposed use that you are requesting. **Attach separate pages if the lines provided are not adequate for your response.** Answer each question as completely as possible to avoid confusion once the permit is issued.

SECTION A - General Description (Use separate sheets as needed)

1. What is the existing use of the property? Vacant Raw land + Cattle
graving.
2. What is the proposed use or improvement? Build a 190' (top of steel) SSL
Tower for Wireless Telecommunications facilities. The
tower is self collapsing within a 100' X 100' compound. Able
to accomodate 3 Carriers on the tower + compound.
3. Describe all activities that will occur as part of the proposed use. In your estimation, what impacts do you think these activities will have on neighboring properties? Approx. Once per
month a Tech will visit site + service as needed.
Site is unmanned.
4. Describe all intermediate and final products/services that will be produced/offered/sold.
Cell phone Carriers will be able to provide
new and or improved
wireless services for this area.

5. What materials will be used to construct the building(s)? (Note, if an existing building(s), please list the construction type(s), i.e., factory built building, wood, block, metal)

NO building being built.

6. Will the project be constructed/completed within one year or phased? One Year Phased if phased, describe the phases and depict on the site plan.

7. Provide the following information (when applicable):

A. Days and hours of operation: Days: Hours (from AM to PM) N/A Unmanned

B. Number of employees: Initially: Future: N/A - Not a store or service center
Number per shift Seasonal changes

C. Total average daily traffic generated:

(1) How many vehicles will be entering and leaving the site.

After construction is complete, usually 2 vehicle.

(2) Total trucks (e.g., by type, number of wheels, or weight)

N/A

(3) Estimate which direction(s) and on which road(s) the traffic will travel from the site?

N/A - or depends on which direction the truck is coming from.

(4) If more than one direction, estimate the percentage that travel in each direction

N/A

(5) At what time of day, day of week and season (if applicable) is traffic the heaviest

N/A

Circle whether you will be on public water system or private well. If private well, show the location on the site plan. N/A
NO water used on site.

D. Estimated total gallons of water used: per day N/A per year

Will you use a septic system? Yes No If yes, is the septic tank system existing?

Yes No Show the septic tank, leach field and 100% expansion area on the site plan.

G. Does your parcel have permanent legal access*? Yes No if no, what steps are you taking to obtain such access?

*Section 1807.02A of the Cochise County Zoning Regulations stipulates that no building permit for a non-residential use shall be issued unless a site has permanent and direct access to a publicly maintained street or street where a private maintenance agreement is in place. Said access shall be not less than twenty (20) feet wide throughout its entire length and shall adjoin the site for a minimum distance of twenty (20) feet. If access is from a private road or easement provide documentation of your right to use this road or easement and a private maintenance agreement.

H. For Special Uses only - provide deed restrictions that apply to this parcel if any.

Attached NA

8. Identify how the following services will be provided:

Service	Utility Company/Service Provider	Provisions to be made
Water <i>N/A</i>	_____	_____
Sewer/Septic <i>N/A</i>	_____	_____
Electricity	_____	_____ <i>X</i>
Natural Gas <i>N/A</i>	_____	_____
Telephone	_____	_____ <i>X</i>
Fire Protection	_____	_____ <i>X</i>

SECTION B - Outdoors Activities/Off-site Impacts

1. Describe any activities that will occur outdoors.

_____ *N/A*

2. Will outdoor storage of equipment, materials or products be needed? Yes No if yes, show the location on the site plan. Describe any measures to be taken to screen this storage from neighboring properties.

3. Will any noise be produced that can be heard on neighboring properties? Yes No if yes; describe the level and duration of this noise. What measures are you proposing to prevent this noise from being heard on neighboring properties?

4. Will any vibrations be produced that can be felt on neighboring properties? Yes No If yes; describe the level and duration of vibrations. What measures will be taken to prevent vibrations from impacting neighboring properties?

5. Will odors be created? Yes No If yes, what measures will be taken to prevent these odors from escaping onto neighboring properties?

6. Will any activities attract pests, such as flies? Yes No If yes, what measures will be taken to prevent a nuisance on neighboring properties?

7. Will outdoor lighting be used? Yes No If yes, show the location(s) on the site plan. Indicate how neighboring properties and roadways will be shielded from light spillover. Please provide manufacturer's specifications. Perhaps a spot light by equipment. Will specify on Construction Drawing for the Building permit.

8. Do signs presently exist on the property? Yes No If yes, please indicate type (wall, freestanding, etc.) and square footage for each sign and show location on the site plan.

A. B. C. D.

9. Will any new signs be erected on site? Yes No If yes, show the location(s) on the site plan. Also, draw a sketch of the sign to scale, show the copy that will go on the sign and **FILL OUT A SIGN PERMIT APPLICATION** (attached).

10. Show on-site drainage flow on the site plan. Will drainage patterns on site be changed?
Yes No

If yes, will storm water be directed into the public right-of-way? Yes No

Will washes be improved with culverts, bank protection, crossings or other means?
Yes No

If yes to any of these questions, describe and/or show on the site plan.

11. What surface will be used for driveways, parking and loading areas? (i.e., none, crushed aggregate, chipseal, asphalt, other)

Crushed gravel will specify in Construction Drawing for Building Permit.

12. Show dimensions of parking and loading areas, width of driveway and exact location of these areas on the site plan. (See site plan requirements checklist.)

13. Will you be performing any off-site construction (e.g., access aprons, driveways, and culverts)?
Yes No If yes, show details on the site plan. **Note: The County may require off-site improvements reasonably related to the impacts of the use such as road or drainage improvements.**

SECTION C - Water Conservation and Land Clearing

1. If the developed portion of the site is one acre or larger, specific measures to conserve water on-site must be addressed. Specifically, design features that will be incorporated into the development to reduce water use, provide for detention and conserve and enhance natural recharge areas must be described. The Planning Department has prepared a *Water Wise Development Guide* to assist applicants. This guide is available upon request. If the site one acre or larger, what specific water conservation measures are proposed? Describe here or show on the site plan submitted with this application.

N/A

Site compound is 100' x 100'

2. How many acres will be cleared?
If more than one acre is to be cleared describe the proposed dust and erosion control measures to be used (Show on site plan if appropriate.)

SECTION D - Hazardous or Polluting Materials

Some businesses involve materials that can contaminate the soil, air, water, waste disposal system or environment in general. Precautions must be taken to protect the environment when such products are distributed to or from the site, stored, manufactured, processed, disposed of, or released as raw materials, products, wastes, emissions, or discharges (When sold or incorporated in a product these materials are required to have Material Safety Data Sheets (MSDS) supplied by the manufacturer.) Examples of such products include but are not limited to paint, solvents, chemicals and chemical wastes, oil, pesticides, herbicides, fertilizers, radioactive materials, biological wastes etc.

Does the proposed use have any activities involving such materials?

Yes No If yes, complete the attached *Hazardous or Polluting Materials Use Questionnaire*.

Note: Depending on quantities, this question does not apply to ordinary household or office products or wastes such as cleansers, waxes or office supplies. Answer YES only if the materials are involved in the commercial or special use process or if landscaping or maintenance chemicals (pesticides, fertilizers, paints, etc.) will be present in quantities greater than 50 pounds (solids) or 25 gallons (liquids).

If you answer NO to this question but in the County's experience, the type of business proposed typically uses such materials, you will be asked to complete the *Hazardous or Polluting Materials Questionnaire* prior to processing this Commercial Use/ Building/ Special Use Permit.

Applications that involve hazardous or polluting materials may take a longer than normal processing time due to the need for additional research. The Arizona Department of Environmental Quality Compliance Assistance Program can address questions about Hazardous Materials (1-800-234-5677, ext. 4333).

SECTION E - Applicant's Statement

I hereby certify that I am the owner or duly authorized owner's agent and all information in this questionnaire, in the Joint Permit Application and on the site plan is accurate. I understand that if any information is false, it may be grounds for revocation of the Commercial Use/ Building/ Special Use Permit.

Applicant's Signature _____

Print Applicant's Name

Date signed

Re: Unity Tower_ Preliminary Zoning Drawings for review + Permission to go through Jurisdictional process Required

Larry Brasher <brasherlarry@yahoo.com>

Wed 1/16/2019 3:17 AM

To: Scigliano, Carmelina <CScigliano@tectonicengineering.com>;

morning Carmelina
I looked over and approve your preliminary zoning drawings
And you have my permission to submit it to zoning
Thanks

On Tuesday, January 15, 2019 6:53 PM, "Scigliano, Carmelina" <CScigliano@tectonicengineering.com> wrote:

Good day Larry & Anne,

Attached are the preliminary zoning drawings for your review and comment/approval. Please review and advise ASAP. Once approved I can set up a preliminary zoning mtg. with Cochise County.

Also, owner permission is required to submit for zoning. Do I have your permission to take the Unity Leased Tower Site Area located at 4545 W. Paul Spur Road, Douglas AZ 85607 through the Cochise County Zoning process? Please advise.

I look forward to hearing from you soon! Thank you very kindly!

Regards,

Carmelina Scigliano

Sr. SAQ PM

Representing Tectonic Engineering

Master Acquisitions

520-241-2388

Cscigliano@tectonicengineering.com<mailto:Cscigliano@tectonicengineering.com>

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Report of Title

5039 COMPREHENSIVE FULL TITLE REPORT (INCLUDES 50 YEAR DEED HISTORY & ORIGINAL COPIES)

This Report of Title is for informational purposes only and is not to be considered as a commitment to issue any form of title insurance policy. The report is for the use and benefit of the addressee only, and liability is hereby limited to the amount of the fee paid therefore.

US TITLE SOLUTIONS FILE NO.61481-AZ1808-5039
REFERENCE NO. 9043 Douglas SITE NAME Douglas

PREPARED FOR:

Tectonic Engineering - Southeast Market on behalf of
Verizon
Mary Williams
8639 Maryland Dr., Suite 102
Richmond, VA 23294

PREMISES:

W. Highway 80 & W. Paul Spur Road, Douglas, AZ 85607
Parcel 407-61-023H

COUNTY:

Cochise

US Title Solutions
3 Werner Way, Lebanon, NJ 08833
Telephone (908) 849-3011 Facsimile (908) 849-7981
www.ustitlesolutions.com
Report powered by LandIT

US TITLE SOLUTIONS**FILE NO. 61481-AZ1808-5039 REFERENCE NO. 9043 Douglas****REPORT OF TITLE****1 DATE OF THIS REPORT** 9/17/2018

EXAMINED FROM 10/8/1946

EXAMINED THRU 9/5/2018

2 THE ESTATE OR INTEREST IN THE LAND DESCRIBED OR REFERRED TO IN THIS REPORT IS:

Fee Simple

3 TITLE TO SAID ESTATE OR INTEREST IN THE LAND DESCRIBED OR REFERRED TO IN THIS REPORT IS AT THE EFFECTIVE DATE HEREOF VESTED IN:

Larry Wayne Brasher and Anne Marie Brasher, husband and wife, as community property with right of survivorship

SOURCE OF TITLE:

Warranty Deed made by H. Ursula Christiansen, a widow dated Dec 19, 2014 recorded on Dec 22, 2014 in instrument no. 2014-22392.

4 THE LAND REFERRED TO IN THIS REPORT IS DESCRIBED AS FOLLOWS:

That portion of the Southeast quarter of the Southwest quarter and the South half of the Southeast quarter in Section 5, Township 24 South, Range 26 East of the Gila and Salt River Base and Meridian, Cochise County, Arizona, more particularly described as follows:

BEGINNING at the Southeast corner of the Southeast quarter of said Section 5; thence West 2,987.00 feet; thence North 62°00' East 1,119.00 feet; thence South 82°53' East 2,045.00 feet to the East line of the Southeast quarter; thence South 280.00 feet to the POINT OF BEGINNING; and

The Northeast quarter of Section 8, Township 24 South, Range 26 East of the Gila and Salt River Base and Meridian, Cochise County, Arizona;

EXCEPT any portion lying within the following described parcels (A), (B), (C), and (D):

(A) COMMENCING at an LS 11281 aluminum cap monument for the North quarter corner of said Section 8; thence North 89°15'18" West (West record), 316.41 feet along the line of said Section to the POINT OF BEGINNING; thence North 61°37'57" East (North 62°60' East record) 177.86 feet; thence

South 02°20'00" West 696.57 feet; thence North 89°15'18" West 274.93 feet; thence North 02°20'00" East 610.00 feet; thence South 89°15'18" East (East record), 121.94 feet along said Section line to the POINT OF BEGINNING;

(B) BEGINNING at a 1 inch pipe monument in pavement for the Northwest corner of said Section 8; thence South 89° 15'18" East, a distance of 1,987.00 feet along the line of said Section 8; thence South 00°40'54" West, a distance of 609.77 feet; thence South 89°15'18" East, a distance of 662.30 feet; thence North 00°40'54" East; a distance of 797.70 feet along the mid-line and its' projection, to a point in said Section 5; thence North 61°37'57" East, a distance of 114.39 feet along the Southerly line of Paul Spur Road; thence South 00°40'54" West, a distance of 2,879.64 feet along a line parallel, and 100.00 feet distant from the mid-line of said Section 8; thence North 89°14'06" West, a distance of 2,748.76 feet along the mid-line of said Section 8; thence North 00°40'08" East, a distance of 2,635.10 feet along the line of said Section 8 to the POINT OF BEGINNING;

(C) COMMENCING at a LS 11281 aluminum cap monument for the North quarter corner of said Section 8; thence North 89°15'18" West 459.62 feet along the line of said section to the POINT OF BEGINNING; thence South 02°20'00" West 610.00 feet; thence North 89°15'18" West 185.10 feet; thence North 00°40'54" East 609.77 feet; thence South 89°15'18" East 202.68 feet along the line of said section to the POINT OF BEGINNING;

(D) BEGINNING at a LS 11281 aluminum cap monument for the North quarter corner of said Section 8; thence South 00°40'54" West, 609.76 feet along the mid-line of said Section 8; thence North 89°15'18" West 202.28 feet; thence North 02°20'00" East 696.57 feet to the line of Paul Spur Road; thence North 61°37'57" East 208.42 feet along said road line; thence South 00°40'54" West 187.93 feet to the POINT OF BEGINNING.

US TITLE SOLUTIONS
FILE NO. 61481-AZ1808-5039 REFERENCE NO. 9043 Douglas

SCHEDULE B

THIS IS NOT A COMMITMENT OR PRELIMINARY REPORT OF TITLE TO ISSUE A POLICY OR POLICIES OF TITLE INSURANCE. THE EXHIBITS SET FORTH HEREIN ARE INTENDED TO PROVIDE YOU WITH NOTICE OF MATTERS AFFECTING TITLE TO THE LAND DESCRIBED IN THIS REPORT.

1. Taxes, tax liens, tax sales, water rates, sewer and assessments set forth in schedule herein.
2. Mortgages returned herein. (-0-). See Separate Mortgage Schedule.
3. Any state of facts which an accurate survey might show or survey exceptions set forth herein.
4. Rights of tenants or person in possession.

(Judgments, Liens and UCC)

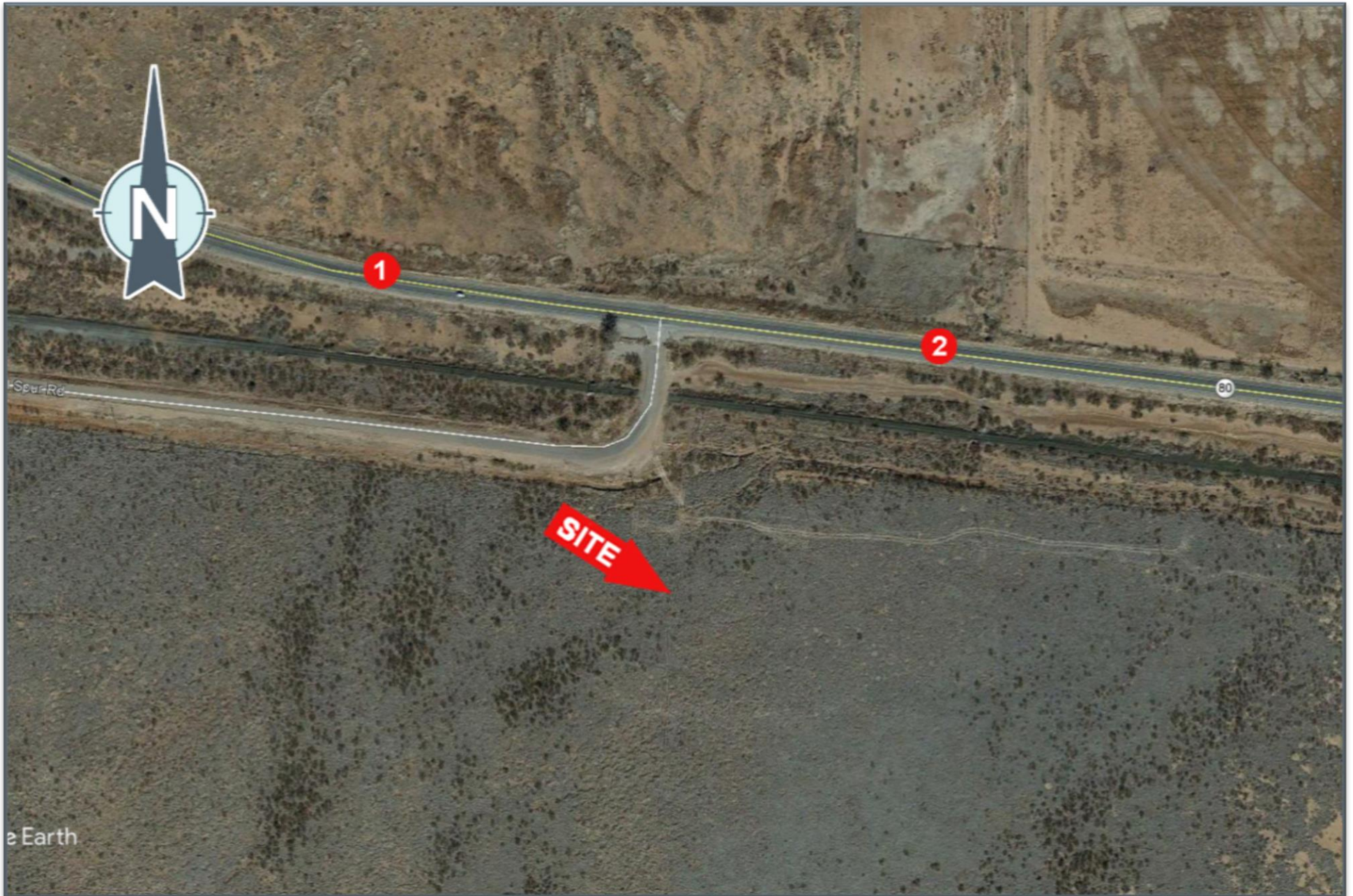
- 5 None within period searched

(Covenants/Restrictions)

- 6 None within period searched

(Easements and Rights of Way)

- 7 None within period searched











FAA Airspace Study

Prepared For: Tectonic Engineering



Site Name: Douglas
Site Address: Douglas, AZ
Ground Elevation: 4143' AMSL
Study Height: 199' AGL
Total Height: 4342' AMSL
Latitude: 31°-21'-54.02"
Longitude: 109°-43'-1.57"
Report Writer: Thomas Muse-Tessier

Generation Date: February 26, 2019

Notice Requirements

Notice is required





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1 Site Summary Analysis 3
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1 Site Summary Analysis

<u>Maximum Height Determinations</u>	<u>AGL (ft)</u>	<u>AMSL (ft)</u>	<u>FAR Rule Exceedance(s)</u>
Without Notice to FAA	71	4214	77.9(b)
Without Need For Extended Study	167	4307	77.17(a)(3)
Without Being a Hazard	203	4346	

On February 26, 2019 an evaluation for the proposed telecommunications site for Tectonic Engineering was conducted. The study was to determine if the proposed structure would create any adverse effect on the navigable airspace. All heights depicted in this report relate only to this study point using the referenced coordinates.

Part 77 of the Federal Air Regulations and Part 17 of the FCC Rules and Regulations were used as the primary reference for this study.

The closest public use or military landing facility is the COCHISE COLLEGE airport (Identity P03). The distance from the proposed structure to the facility is 1.444 NM on a bearing of 74.64 degrees (true) to the facility.

2 Notice Requirement Determination

Structure Height: Notice is required for the proposed height of 199' AGL. At this proposed height, there are FAR rule exceedances. See Site Summary Analysis table for further height considerations with respect to FAA Regulations set forth in Part 77.

Private use landing facilities are not a factor for this location. An AM study is not required.

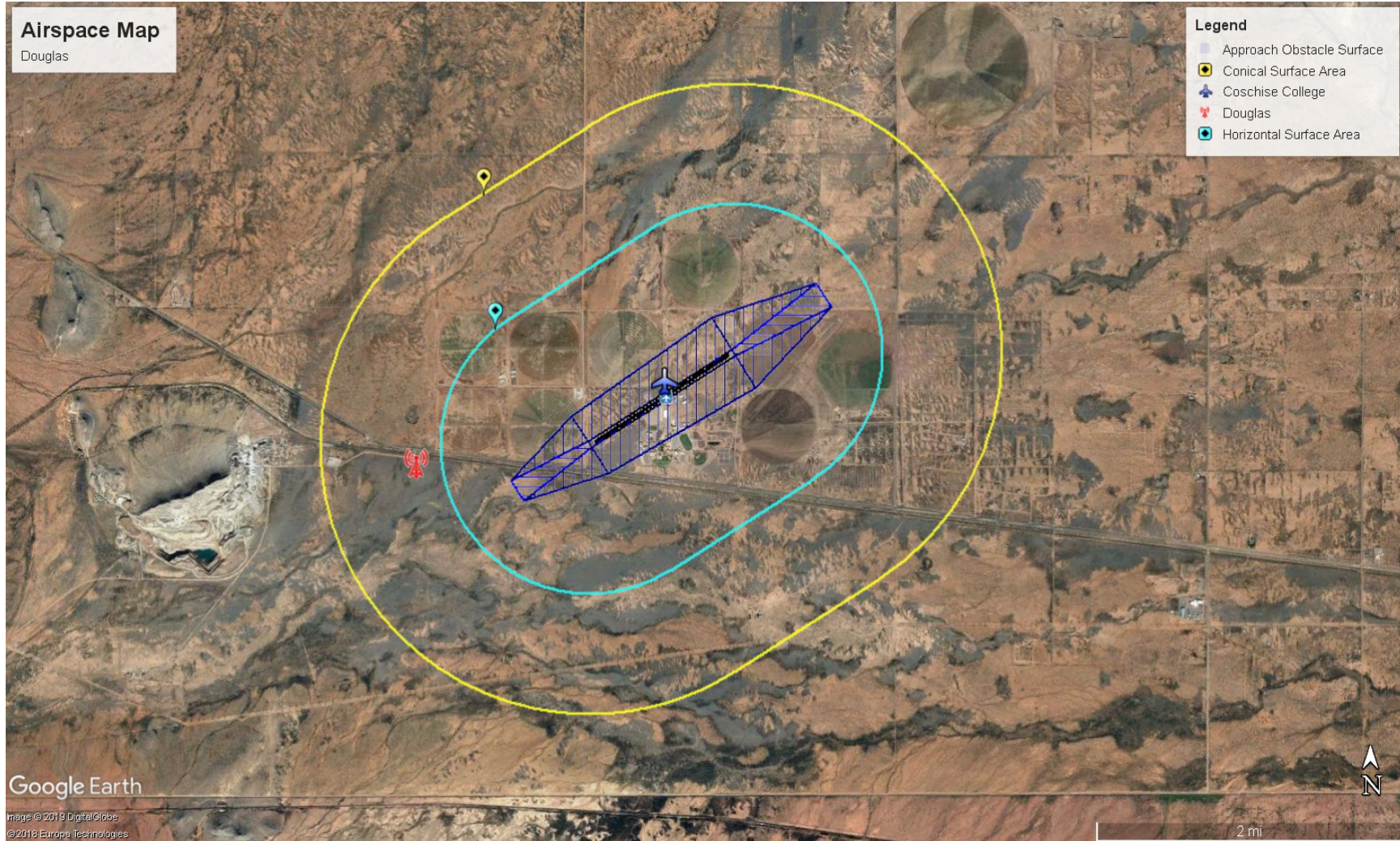
For additional information or questions about this study, please contact David Kiser.

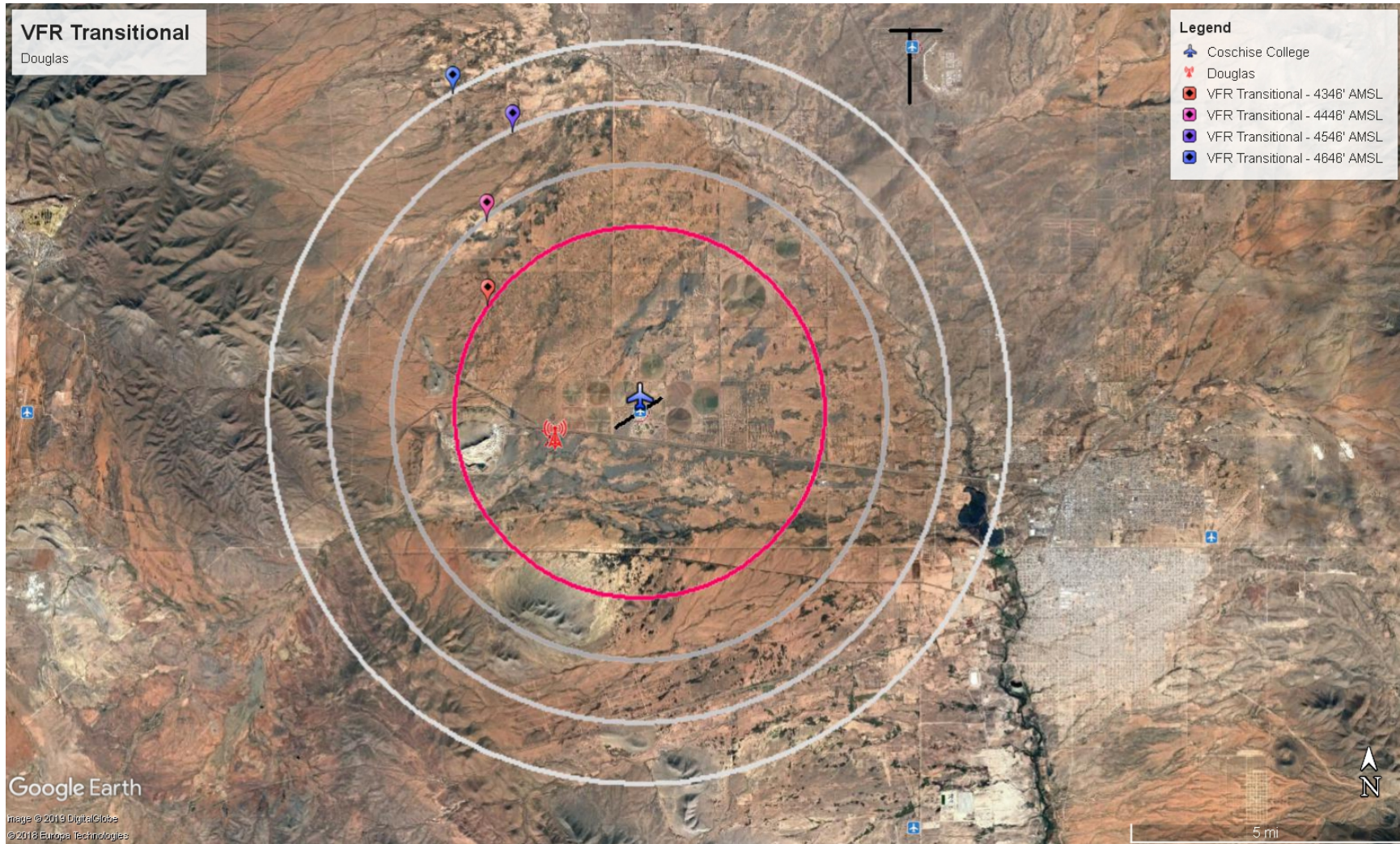
David H. Kiser

David H. Kiser
FAA Compliance
dkiser@waterfordconsultants.com
(703) 596-1022 x 138



3 FAR Part 77 Diagram







4 Airspace Summary Appendix

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*****
*           Federal Airways & Airspace           *
*           Summary Report: New Construction       *
*           Antenna Structure                     *
*****

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Airspace User: David Kiser

File: DOUGLAS

Location: Douglas, AZ

Latitude: 31°-21'-54.02" Longitude: 109°-43'-1.57"

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SITE ELEVATION AMSL.....4143 ft.
STRUCTURE HEIGHT.....199 ft.
OVERALL HEIGHT AMSL.....4342 ft.
SURVEY HEIGHT AMSL.....4342 ft.

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NOTICE CRITERIA

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FAR 77.9(a): NNR (DNE 200 ft AGL)
FAR 77.9(b): NR (Exceeds Notice Slope, Maximum: 4214 ft.)
FAR 77.9(c): NNR (Not a Traverse Way)
FAR 77.9: NNR FAR 77.9 IFR Straight-In Notice Criteria for P03
FAR 77.9: NNR FAR 77.9 IFR Straight-In Notice Criteria for DUG
FAR 77.9(d): NNR (Off Airport Construction)

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NR = Notice Required
NNR = Notice Not Required
PNR = Possible Notice Required (depends upon actual IFR procedure)
For new construction review Air Navigation Facilities at bottom
of this report.

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Notice to the FAA is required because height exceeds Notice Slope criteria. The maximum height to avoid notice is 4214 ft AMSL.

OBSTRUCTION STANDARDS

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FAR 77.17(a) (1): DNE 499 ft AGL
FAR 77.17(a) (2): DNE - Airport Surface
FAR 77.19(a): DNE - Horizontal Surface
FAR 77.19(b): DNE - Conical Surface
FAR 77.19(c): DNE - Primary Surface
FAR 77.19(d): DNE - Approach Surface
FAR 77.19(e): DNE - Approach Transitional Surface
FAR 77.19(e): DNE - Abeam Transitional Surface

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VFR TRAFFIC PATTERN AIRSPACE FOR: P03: COCHISE COLLEGE

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Type: A    RD: 6157.253    RE: 4153
FAR 77.17(a) (1): DNE
FAR 77.17(a) (2): DNE - Height No Greater Than 200 feet AGL.
VFR Horizontal Surface: DNE
VFR Conical Surface: DNE
VFR Primary Surface: DNE
VFR Approach Surface: DNE
VFR Transitional Surface: DNE

```

The structure is within VFR - Traffic Pattern Airspace Climb/Descent Area. Structures exceeding the greater of 350' AAE, 77.17(a) (2), or VFR horizontal and conical surfaces will receive a hazard determination from the FAA.



Maximum AMSL of Climb/Descent Area is 4496 feet.

VFR TRAFFIC PATTERN AIRSPACE FOR: DUG: BISBEE DOUGLAS INTL

Type: A RD: 47833.32 RE: 4082

FAR 77.17(a) (1): DNE

FAR 77.17(a) (2): DNE - Greater Than 5.99 NM.

VFR Horizontal Surface: DNE

VFR Conical Surface: DNE

VFR Primary Surface: DNE

VFR Approach Surface: DNE

VFR Transitional Surface: DNE

TERPS DEPARTURE PROCEDURE (FAA Order 8260.3, Volume 4)

FAR 77.17(a) (3) Departure Surface Criteria (40:1)

The Maximum Height Permitted is 4307 ft AMSL

MINIMUM OBSTACLE CLEARANCE ALTITUDE (MOCA)

FAR 77.17(a) (4): DNE - No Airway Found

PRIVATE LANDING FACILITIES

No Private Landing Facilities Are Within 6 NM

AIR NAVIGATION ELECTRONIC FACILITIES

FAC	ST	DIST	DELTA	GRND	APCH					
IDNT	TYPE	AT	FREQ	VECTOR	(ft)	ELEVA	ST	LOCATION	ANGLE	BEAR
FCC	FCC MONITOR	Y		21.74	53121	+247	AZ	DOUGLAS	.27	
DUG	VORTAC	I	108.8	42.48	53126	+211	AZ	DOUGLAS	.23	
FHU	RADAR	ON		292.44	206716	-354	AZ	SIERRA VISTA MUNI	-.1	
ARH	TACAN	R	111.6	292.64	209826	-318	AZ	FORT HUACHUCA	-.09	

CFR Title 47, §1.30000-§1.30004

AM STUDY NOT REQUIRED: Structure is not near a FCC licensed AM station.

Movement Method Proof as specified in §73.151(c) is not required.

Please review 'AM Station Report' for details.

Nearest AM Station: ELSI @ 9059 meters.

Airspace® Summary Version 19.1.523

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02-25-2019

14:46:12

February 22, 2019

Ms. Jen Schaumburg
Uniti - Project Manager
10801 Executive Center Drive
Shannon Building Suite 100
Little Rock, AR 72211

RE: 190' Self-Supporting Tower for Douglas, AZ

Dear Ms. Schaumburg,

Upon receipt of order, we propose to design and supply the above referenced tower for an Ultimate Wind Speed of 105 mph with no ice, Structure Class II, Exposure Category C, and Topographic Category 1, in accordance with the Telecommunications Industry Association Standard ANSI/TIA-222-G, "Structural Standard for Antenna Supporting Structures and Antennas" and ASCE 7-16.

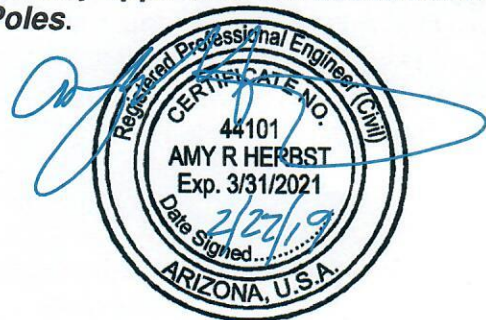
When designed according to this standard, the wind pressures and steel strength capacities include several safety factors, resulting in an overall minimum safety factor of 25%. Therefore, it is highly unlikely that the tower will fail structurally in a wind event where the design wind speed is exceeded within the range of the built-in safety factors.

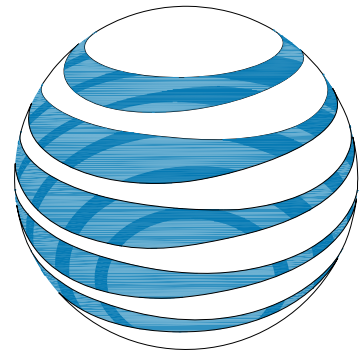
Should the wind speed increase beyond the capacity of the built-in safety factors, to the point of failure of one or more structural elements, the most likely location of the failure would be within one or more of the tower members in the upper portion. This would result in a buckling failure mode, where the loaded member would bend beyond its elastic limit (beyond the point where the member would return to its original shape upon removal of the wind load).

Therefore, it is likely that the overall effect of such an extreme wind event would be localized buckling of a tower section. Assuming that the wind pressure profile is similar to that used to design the tower, the tower is most likely to buckle at the location of the highest combined stress ratio in the upper portion of the tower. This would result in the portion of the tower above the failure location "folding over" onto the portion of the tower below the failure location. This would effectively result in a "zero radius fall zone" at ground level. **Please note that this letter only applies to the above referenced tower designed and manufactured by Sabre Towers & Poles.**

Sincerely,

Amy R. Herbst, P.E.
Senior Design Engineer





at&t
mobility corp.

SITE ID: TBD (AZTUC2004)
SITE NAME: DOUGLAS

FA# 10093301

4545 W PAUL SPUR RD
DOUGLAS, AZ 85607
COCHISE COUNTY

Vendor:

 10801 EXECUTIVE CENTER DR
 SHANNON BLDG, STE 100
 LITTLE ROCK, AR 72211

PREPARED FOR

ENGINEER:
Tectonic
 PRACTICAL SOLUTIONS, EXCEPTIONAL SERVICE.
Tectonic Engineering Consultants P.C.
 3923 South McClintock Drive
 Suite 409
 Tempe, AZ 85282
 Phone: (480) 629-5533
 (800) 829-6531
 www.tectonicengineering.com

TEC WO #: 9043.DOUGLAS
 DRAWN BY: DAI
 CHECKED BY: AHM

AZTUC2004
DOUGLAS
 4545 W PAUL SPUR RD
 DOUGLAS, AZ 85607
 COCHISE COUNTY

FA#: 10093301
PACE#:
PT#:

REV	DATE	DESCRIPTION
B	02/22/19	TOP OF LIGHTNING ROD
A	01/25/19	FOR COMMENT

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 TITLE:
TITLE SHEET

SHEET NUMBER:
T-1

SITE INFORMATION	
SITE ADDRESS:	4545 W PAUL SPUR RD DOUGLAS, AZ 85607
LATITUDE (NAD 83):	N 31° 21' 54.02" (31.365010°)
LONGITUDE (NAD 83):	W 109° 43' 01.57" (-109.717100°)
GROUND ELEVATION:	4142.8' (AMSL)
JURISDICTION:	COCHISE COUNTY
JURISDICTION CONTACT:	PAUL ESPARZA (820) 432-9240
ZONING:	SPECIAL USE
PARCEL/MAP NUMBER:	407-61-023H
PARCEL OWNER:	BRASHER, LARRY W & ANNE M 3865 W HIGHWAY 80 DOUGLAS, AZ 85607
TOWER OWNER:	UNITI TOWERS, LLC 10801 EXECUTIVE CENTER DRIVE SHANNON BLDG, STE 100 LITTLE ROCK, AR 72211
STRUCTURE TYPE:	SELF SUPPORT TOWER
STRUCTURE HEIGHT:	190.0' (AGL)
POWER SUPPLIER:	ARIZONA PUBLIC SERVICE TBD REF # TBD
TELCO SUPPLIER:	CENTURY LINK TBD REF # TBD



DIRECTIONS

FROM AT&T OFFICE:
 TBD

CODE COMPLIANCE

ALL WORK AND MATERIALS SHALL BE PERFORMED AND 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 THE LATEST EDITIONS OF THE FOLLOWING CODES.

- 2012 BUILDING CODE
- 2011 NATIONAL ELECTRICAL CODE
- 2009 NFPA 101, LIFE SAFETY CODE
- 2009 IFC
- AMERICAN CONCRETE INSTITUTE
- AMERICAN INSTITUTE OF STEEL CONSTRUCTION
- MANUAL OF STEEL CONSTRUCTION 13TH EDITION
- ANSITIA-222-G
- TIA 607
- INSTITUTE FOR ELECTRICAL & ELECTRONICS ENGINEER 81
- IEEE C2 NATIONAL ELECTRIC SAFETY CODE LATEST EDITION
- TELECORDIA GR-1275
- ANSIT 311

DRAWING INDEX	
T-1	TITLE SHEET
LS-1	SURVEY BOUNDARY DETAIL
LS-2	SURVEY DETAIL
C-1	SITE PLAN
C-2	COMPOUND PLAN
C-3	ELEVATIONS
C-4	ANTENNA PLAN AND RF SCHEDULE

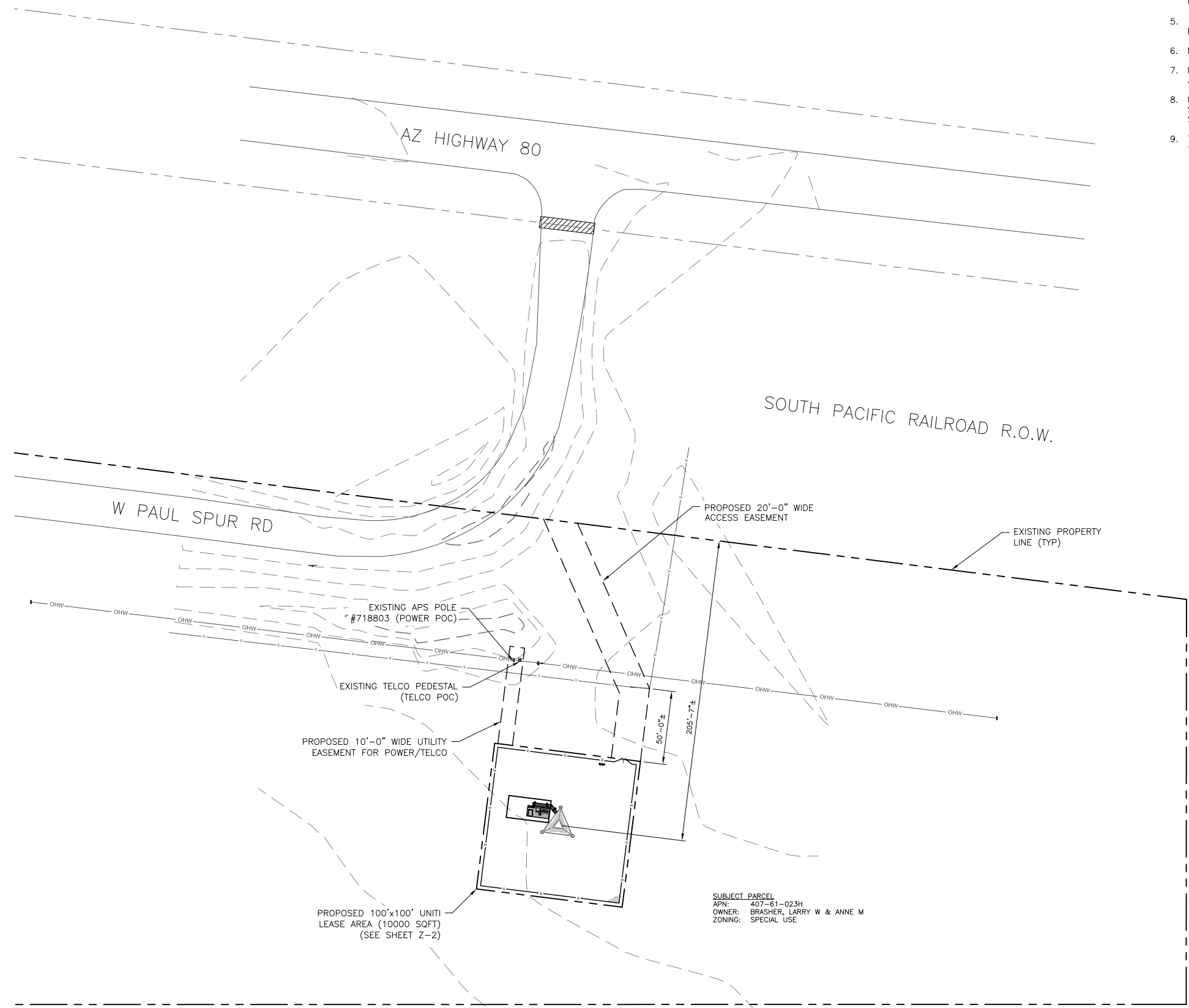
DRAWING SCALE

THESE DRAWINGS ARE SCALED TO FULL SIZE AT 22"X34" AND HALF SIZE AT 11"X17". CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE DESIGNER / ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR MATERIAL ORDERS OR BE RESPONSIBLE FOR THE SAME. CONTRACTOR SHALL USE BEST MANAGEMENT PRACTICE TO PREVENT STORM WATER POLLUTION DURING CONSTRUCTION.

SCOPE OF WORK

THIS PROJECT CONSISTS OF:
 • TBD

PROJECT TEAM	
APPLICANT:	AT&T MOBILITY CORPORATION TBD TBD
PROJECT MANAGEMENT FIRM:	UNITI TOWERS, LLC 10801 EXECUTIVE CENTER DRIVE SHANNON BLDG, STE 100 LITTLE ROCK, AR 72211 (501) 398-9716
A+E FIRM:	TECTONIC ENGINEERING CONSULTANTS P.C. 3923 S McCLINTOCK DR STE 409 TEMPE, AZ 85282 ADRIAN MASSIE, P.E. (480) 629-5533
LEASING AND ZONING:	TECTONIC ENGINEERING CONSULTANTS P.C. 3923 S McCLINTOCK DR STE 409 TEMPE, AZ 85282 CARMELINA SCIGLIANO (520) 241-2388



SUBJECT PARCEL
 APN: 407-61-023H
 OWNER: BRASHER, LARRY W & ANNE M
 ZONING: SPECIAL USE

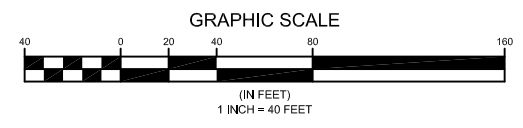
1 SITE PLAN
 C-1 SCALE: 1" = 40'

GENERAL NOTES

- EXISTING FEATURES SHOWN ARE BASED ON FIELD SURVEY BY RLF CONSULTING PERFORMED 12/21/18 AND IS LIMITED TO FEATURES OF INTEREST.
- THIS PLAN IS NOT A BOUNDARY SURVEY. PROPERTY BOUNDARY INFORMATION SHOWN IS FOR REFERENCE ONLY. RLF CONSULTING DID NOT VERIFY BOUNDARY AS PART OF THIS SURVEY. DEED BEARING AND DISTANCE IN PARENTHESIS.
- VERTICAL DATUM IS NAVD88 BASED ON GPS OBSERVATIONS REFERENCED TO THE NGS CORS NETWORK.
- HORIZONTAL DATUM IS NAD 83, STATE PLANE COORDINATES OF ARIZONA AND ESTABLISHED GPS OBSERVATIONS REFERENCED TO THE NGS CORS NETWORK.
- NO WETLANDS INVESTIGATION WAS PERFORMED AS PART OF THIS SURVEY.
- NO INVESTIGATION OF THE PRESENCE OF HAZARDOUS MATERIALS WAS PERFORMED AS A PART OF THIS SURVEY.
- UTILITIES SHOWN PER FIELD LOCATIONS FROM ABOVE GROUND INSPECTION OF THE SITE AND UTILITY MARK-OUTS IN THE FIELD. UTILITIES THAT EXIST MAY NOT BE SHOWN.
- THIS PLAN WAS PREPARED WITH THE BENEFIT OF A TITLE REPORT PREPARED BY US TITLE SOLUTIONS DATED 9/17/18 FILE NO. 61481-AZ1808-5039.

LEGEND	
	PROPERTY LINE - SUBJECT PARCEL
	EXISTING SETBACK LINE
	PROPOSED LEASE AREA
	PROPOSED EASEMENT
	PROPOSED FENCE LINE
	EXISTING ROAD
	EXISTING OVERHEAD UTILITIES
	EXISTING BUILDING

ZONING INFORMATION	
JURISDICTION:	COCHISE COUNTY
ZONING:	RU-4
TOWER SETBACKS TO PROPERTY LINES: (FROM TOWER CENTER)	
NORTH:	215' - 11"±
SOUTH:	111' - 6"±
WEST:	1924' - 9"±
EAST:	426' - 7"±



Vendor:

 10801 EXECUTIVE CENTER DR
 SHANNON BLDG, STE 100
 LITTLE ROCK, AR 72211

PREPARED FOR

ENGINEER:

 PRACTICAL SOLUTIONS, EXCEPTIONAL SERVICE.
 Tectonic Engineering Consultants P.C.
 3923 South McClintock Drive
 Suite 407
 Tempe, AZ 85282
 Phone: (480) 429-5533
 (800) 829-6531
 www.tectoniceengineering.com

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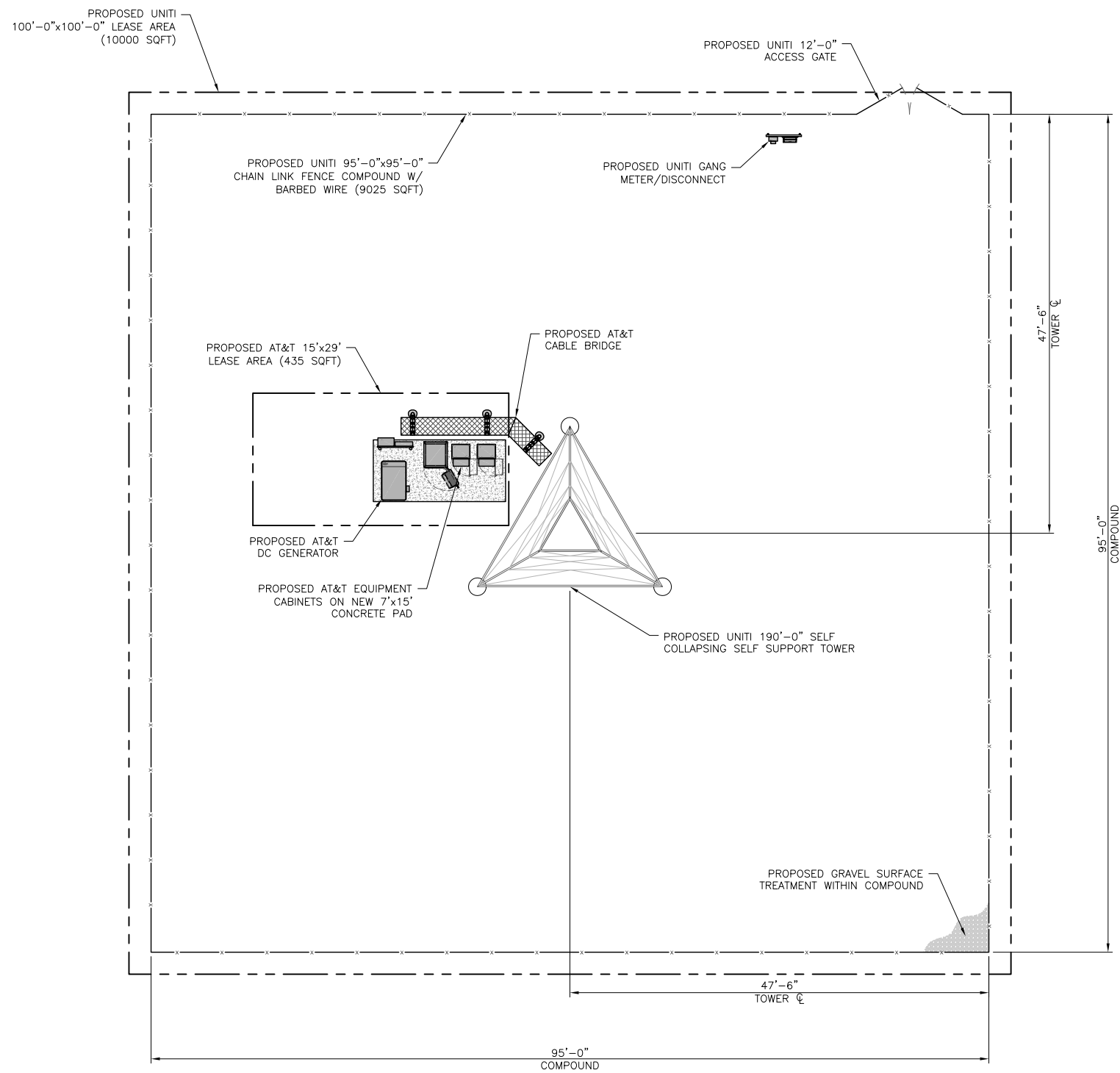
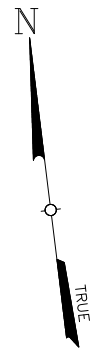
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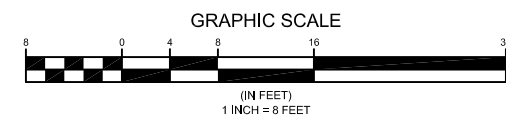
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SHEET TITLE:
SITE PLAN

SHEET NUMBER:
C-1




1
C-2
COMPOUND PLAN
SCALE: 1" = 8'



Vendor:

 10801 EXECUTIVE CENTER DR
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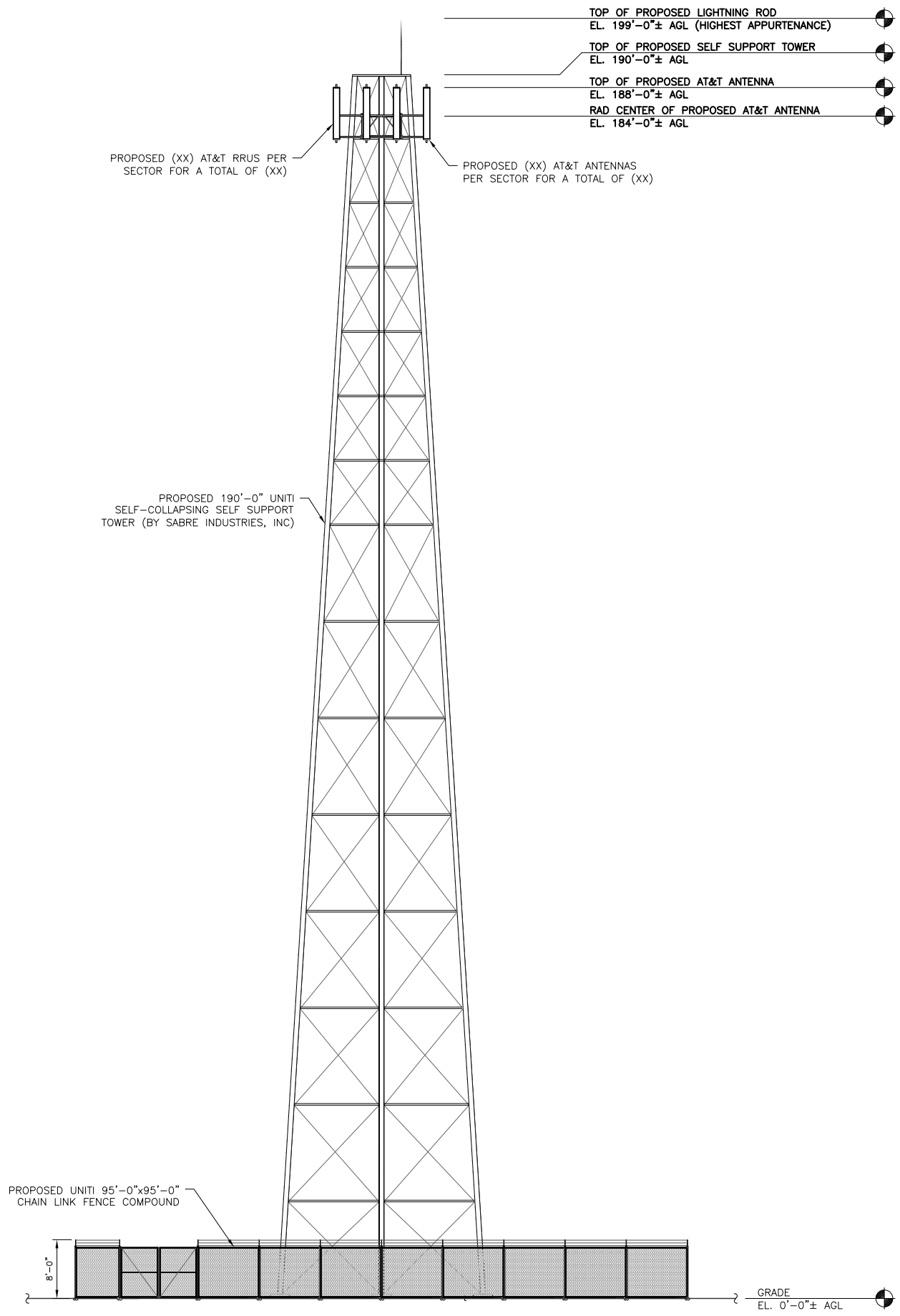
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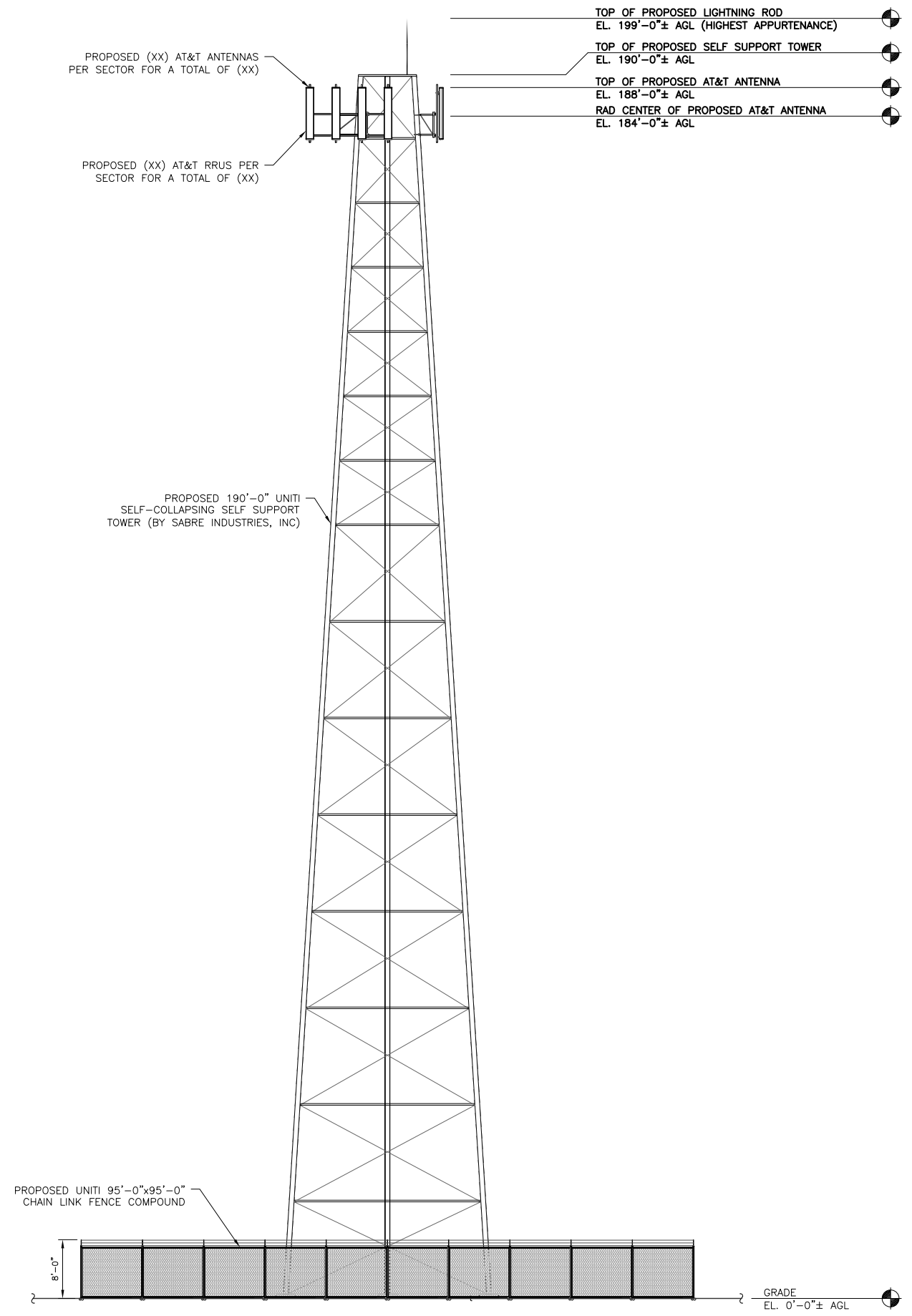
COMPOUND PLAN

SHEET NUMBER:

C-2



1 NORTH ELEVATION
 C-3 SCALE: 3/32" = 1'-0"



2 EAST ELEVATION
 C-3 SCALE: 3/32" = 1'-0"

Vendor:

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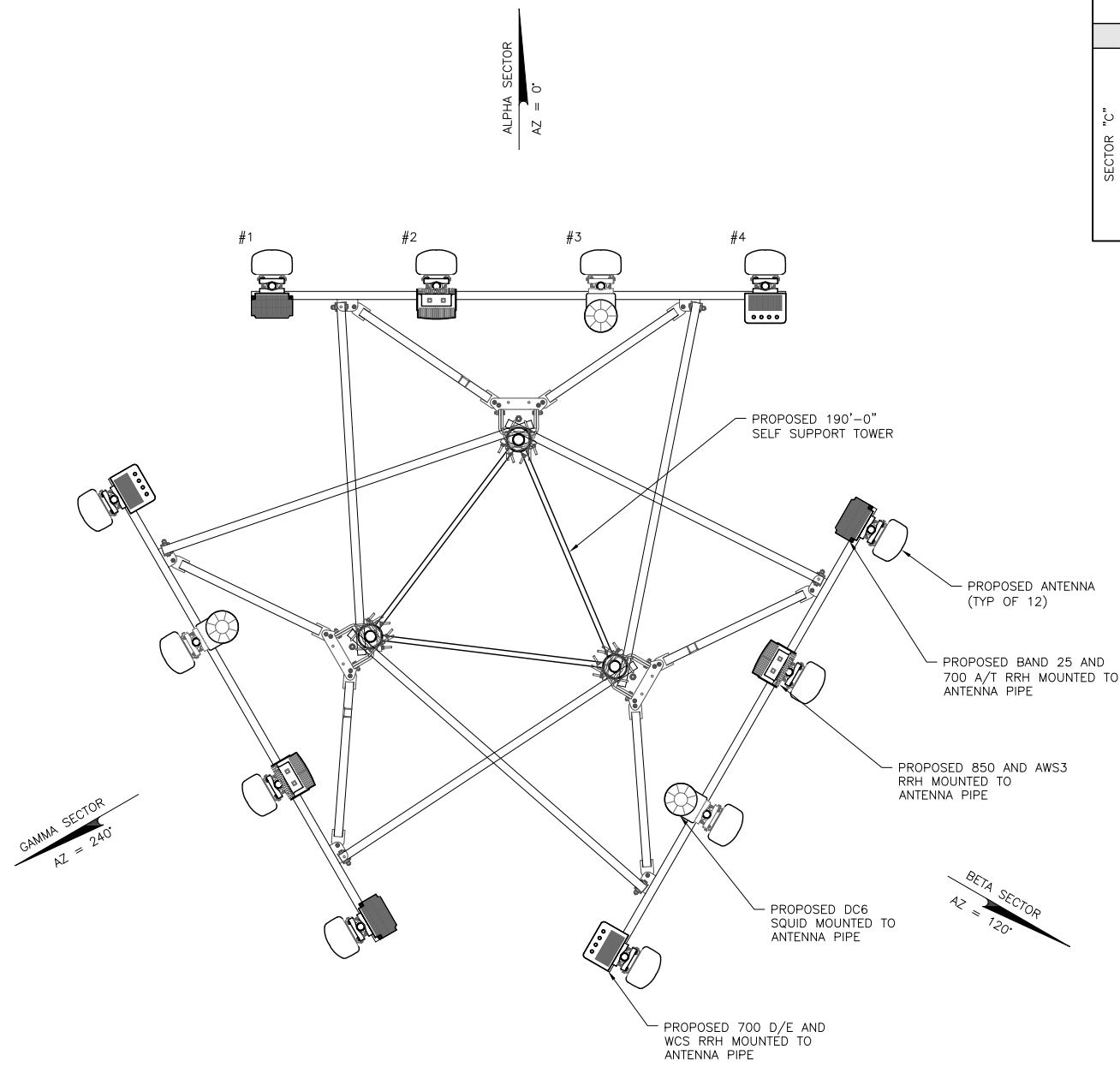
SHEET TITLE:

ELEVATIONS

SHEET NUMBER:

C-3

RF SCHEDULE										
SECTOR	ANTENNA MODEL NO.	AZIMUTH	RAD CENTER	RRU	TMA	FIBER LENGTH	COAX LENGTH	COAX DIA.	NO.	
SECTOR "A"	1	SBNHH-1D65C	0'	184-0"±	(1) RRH	-	200'-0"±	200'-0"±	X"	X
					(1) RRH					
	2	SBNHH-1D65C	0'	184-0"±	--	-	200'-0"±	200'-0"±	X"	X
					--					
SECTOR "B"	3	SBNHH-1D65C	0'	184-0"±	(1) RRH	-	200'-0"±	200'-0"±	X"	X
					(1) RRH					
	4	SBNHH-1D65C	0'	184-0"±	(1) RRH	-	200'-0"±	200'-0"±	X"	X
					(1) RRH					
SECTOR "C"	1	SBNHH-1D65C	120'	184-0"±	(1) RRH	-	200'-0"±	200'-0"±	X"	X
					(1) RRH					
	2	SBNHH-1D65C	120'	184-0"±	--	-	200'-0"±	200'-0"±	X"	X
					--					
SECTOR "C"	3	SBNHH-1D65C	120'	184-0"±	(1) RRH	-	200'-0"±	200'-0"±	X"	X
					(1) RRH					
	4	SBNHH-1D65C	120'	184-0"±	(1) RRH	-	200'-0"±	200'-0"±	X"	X
					(1) RRH					
SECTOR "C"	1	SBNHH-1D65C	240'	184-0"±	(1) RRH	-	200'-0"±	200'-0"±	X"	X
					(1) RRH					
	2	SBNHH-1D65C	240'	184-0"±	--	-	200'-0"±	200'-0"±	X"	X
					--					
SECTOR "C"	3	SBNHH-1D65C	240'	184-0"±	(1) RRH	-	200'-0"±	200'-0"±	X"	X
					(1) RRH					
	4	SBNHH-1D65C	240'	184-0"±	(1) RRH	-	200'-0"±	200'-0"±	X"	X
					(1) RRH					



1 ANTENNA PLAN
C-4 SCALE: 1/2" = 1'-0"

Vendor:

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SHEET TITLE:
ANTENNA PLAN AND RF SCHEDULE

SHEET NUMBER:
C-4