

Case No. 19PD040

**Legal Description:**

Lot 1 of Thompson Tower Subdivision located in Section 14, T1N, R7E, BHM, Rapid City, Pennington County, South Dakota



August 27, 2019

Mr. Ken Young  
 Director Department of Community Development  
 City of Rapid City  
 300 Sixth Street  
 Rapid City, SD 57701

Subject: Hughes Network Systems, LLC Request to Install a 10M Antenna at the Golden West Tower Road Site

Dear Mr. Young:

Hughes Network Systems, LLC (HUGHES) is the global leader in broadband satellite technology and services for home and office. Its flagship high-speed satellite Internet service is HughesNet®, the world's largest satellite network with over 1.3 million residential and business customers across North and South America. Our current customer base in South Dakota is 4,435 users of HughesNet. The JUPITER™ System is the world's most widely deployed High-Throughput Satellite (HTS) platform, operating on more than 20 satellites by leading service providers, delivering a wide range of broadband enterprise, mobility and cellular backhaul applications.

To keep pace with growing industry needs, Hughes is working on its next generation satellite, Jupiter 3, which is planned to launch in April/May 2021. In parallel with the satellite launch, Hughes is working to establish 20 Gateway locations throughout the United States, west of the Mississippi. The Golden West, Rapid City site is a key component in this new network.

Each gateway will consist of a 9.2M or 10M antenna and one rack of equipment which will be housed in the antenna pedestal. The Golden West/Rapid City site will have 10M antenna installed. The site prep for these gateways will begin in the summer of 2019 and will continue throughout 2020.

It is essential that each site selected have a clear view of the south sky, redundant infrastructure to include power, cooling and fiber along with the ability for smart hands service. These key features are all present at the Golden West site which makes it a preferred location and would eliminate duplication of infrastructure and the expense of over \$200K. The long-standing use of this location for other telecommunications facilities/structures and support utilities/ hardware including our Jupiter 1 Gateway make this a logical, economical and reasonable location for the new antenna. Locating the antenna interior to the existing site and improvements will result in negligible impact to any of the surrounding properties or uses.

On behalf of Hughes Network Systems and the customers that rely on our communications technology and support, we respectfully request your recommendation of approval for the Major Amendment to the Planned Development to allow an additional 10M dish antenna as part of the Golden West communications facility on Tower Road.

If you should have any questions, please feel free to contact me at 301.428.5829.

Sincerely,

James G. Muir, III  
 Vice President – Real Estate & Facilities

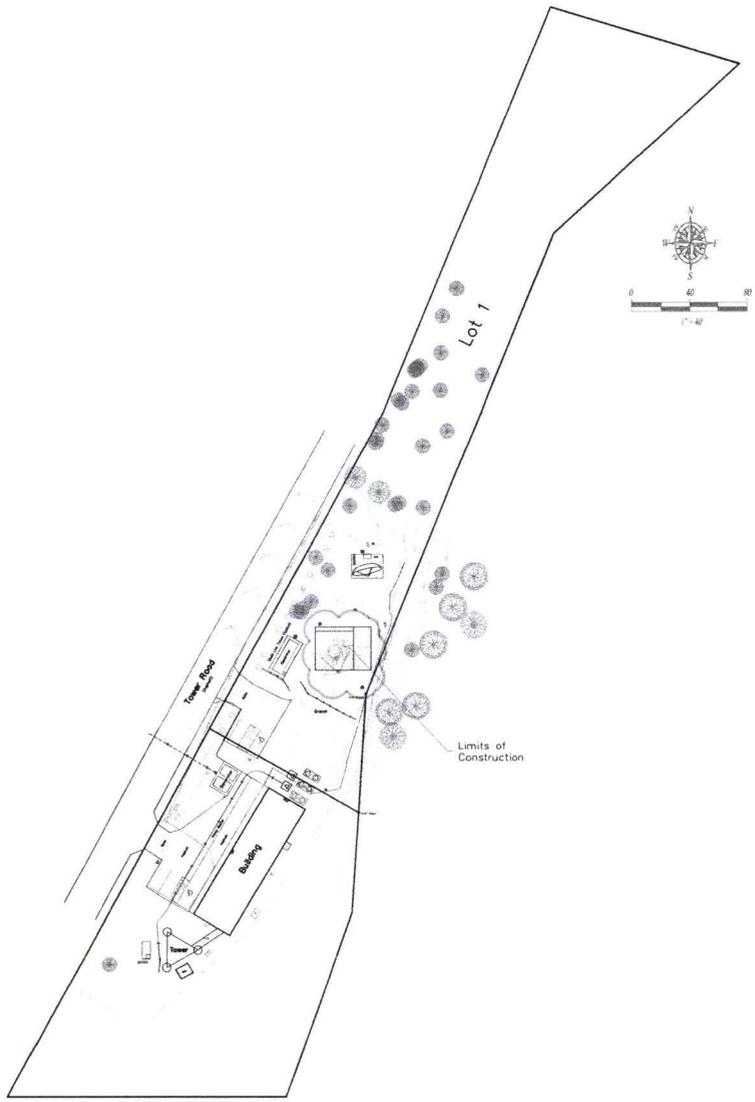
cc:  
 Bill Cook – Golden West

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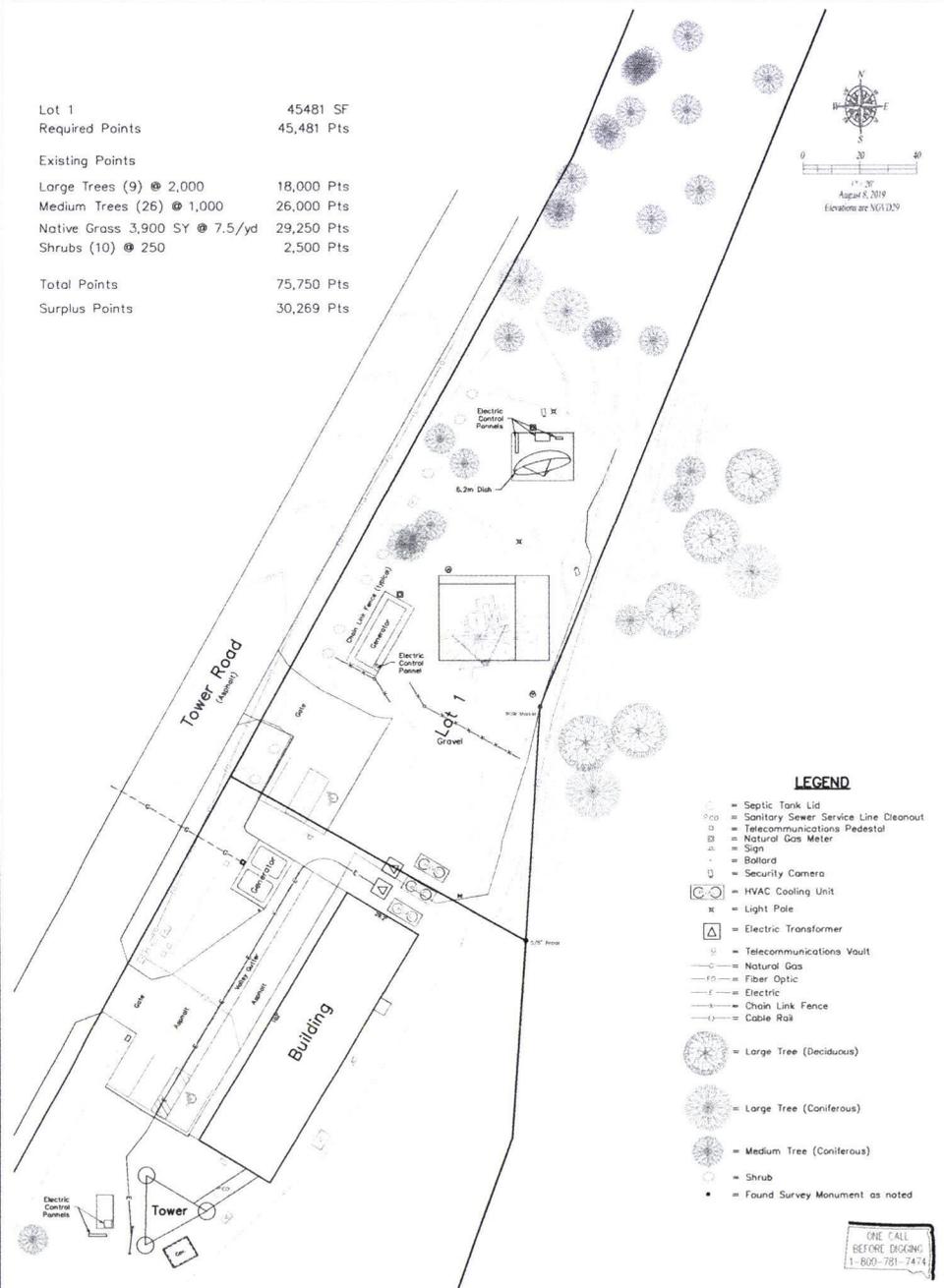
AUG 27 2019

RAPID CITY DEPARTMENT OF  
 COMMUNITY DEVELOPMENT





Lot 1	45481 SF
Required Points	45,481 Pts
Existing Points	
Large Trees (9) @ 2,000	18,000 Pts
Medium Trees (26) @ 1,000	26,000 Pts
Native Grass 3,900 SY @ 7.5/yd	29,250 Pts
Shrubs (10) @ 250	2,500 Pts
Total Points	75,750 Pts
Surplus Points	30,269 Pts



- LEGEND**
- = Septic Tank Lid
  - = Sanitary Sewer Service Line Cleanout
  - = Telecommunications Pedestal
  - = Natural Gas Meter
  - = Sign
  - = Bollard
  - = Security Camera
  - = HVAC Cooling Unit
  - = Light Pole
  - = Electric Transformer
  - = Telecommunications Vault
  - = Natural Gas
  - = Fiber Optic
  - = Electric
  - = Chain Link Fence
  - = Cable Rail
  - = Large Tree (Deciduous)
  - = Large Tree (Coniferous)
  - = Medium Tree (Coniferous)
  - = Shrub
  - = Found Survey Monument as noted

**Fisk Land Surveying & Consulting Engineers, Inc.**  
 1022 Main Street - P.O. Box 8194  
 Rapid City, South Dakota 57702  
 (605) 345-1538 (ph) (605) 341-1112 (fx)  
 fiske@midwestsurvey.com



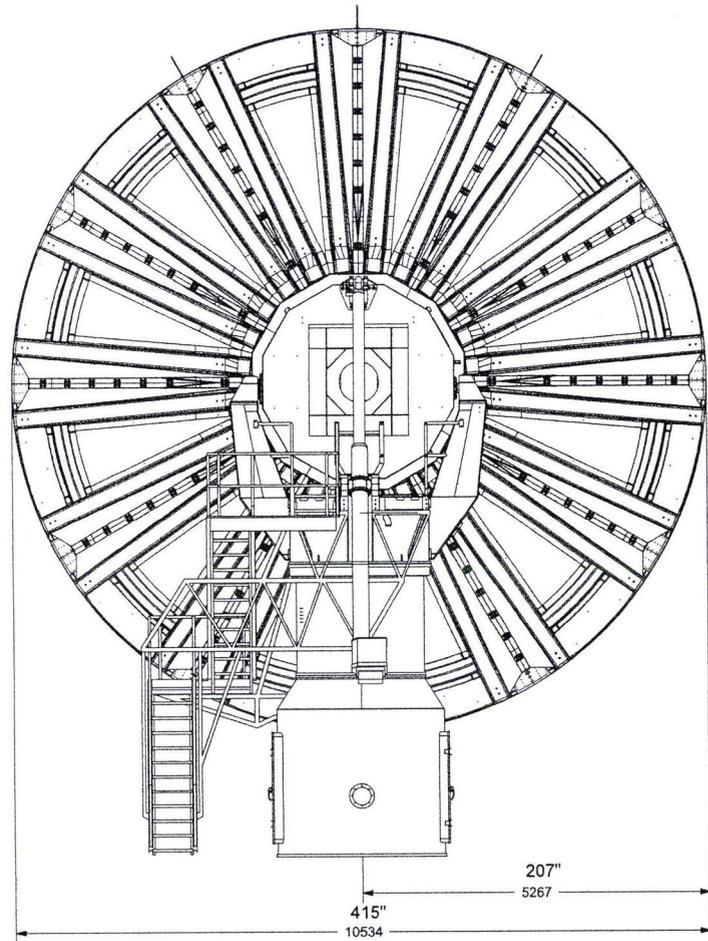
The information herein is copywritten material, and specific to the date, client and purpose as stated. No warranty or guarantee is expressed or implied to any party, for any other purpose at any time except as stated.

**Golden West Facility Site Improvements**  
 Portions of Lot 1 of Thompson Tower Subdivision located in the NW 1/4 Section 14, T1N, R7E, BHM, Rapid City, Pennington County, South Dakota

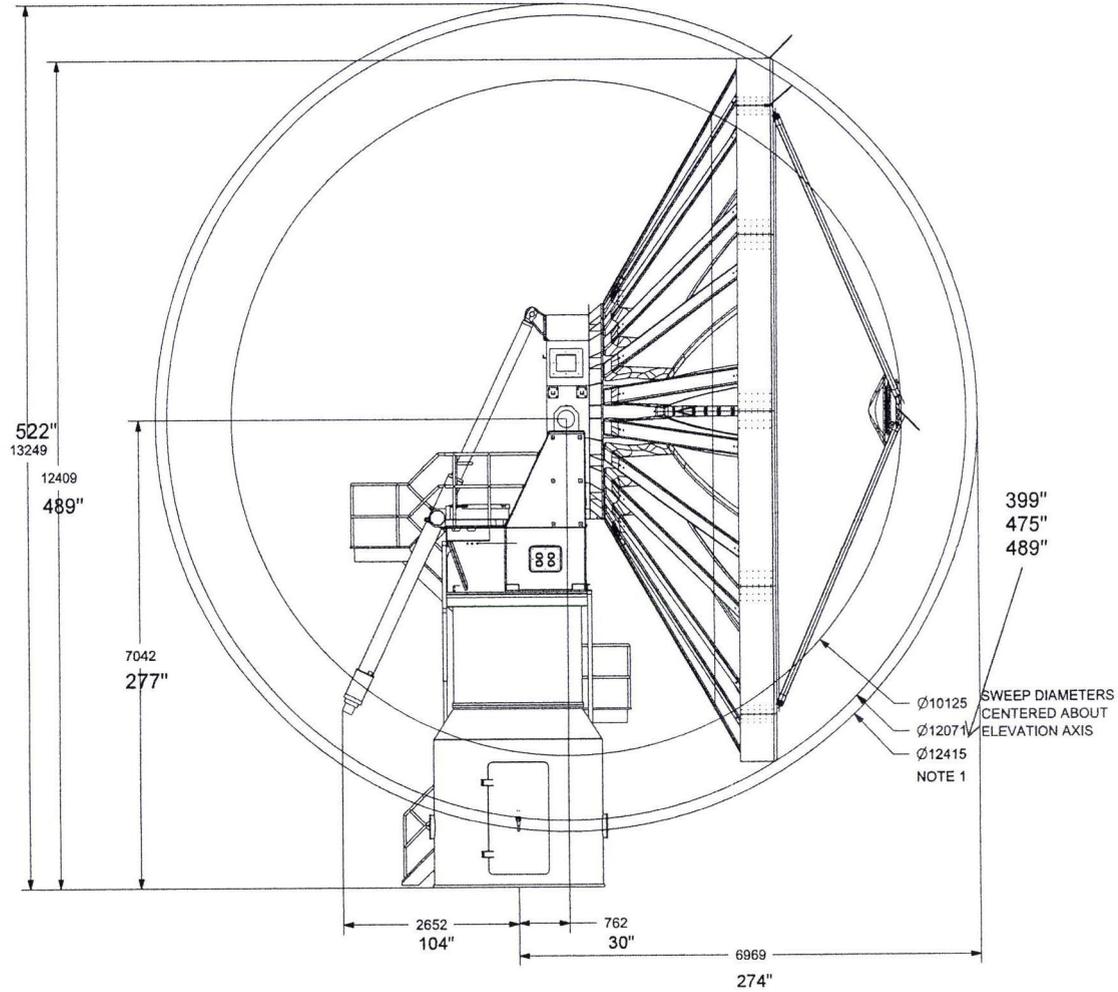
Surveyed by: CDD  
 Date: 8-8-19  
 Drawn by: CDD/RWF  
 Date: 8-8-19  
 Checked by: JF/SO1  
 Revisions  
 9-23-19 - Fence  
 Project No:  
 11-11-03

**Landscape Plan**

ONE CALL  
 BEFORE DIGGING  
 1-800-781-7474



REAR VIEW  
0° ELEVATION



SIDE VIEW  
0° ELEVATION

NOTE 1  
THIS DIMENSION MAY CHANGE A MARGINAL AMOUNT  
BASED ON THE FINAL ADJUSTMENT DESIGN. SWING  
RADIUS OF THIS COMPONENT WILL NOT EXCEED THE  
RIM EDGE

RECEIVED

8 MAY 2019

RAPID CITY DEPARTMENT OF  
COMMUNITY DEVELOPMENT

All 2D drawings are based off the corresponding 3D CAD geometry. Any discrepancies between the geometry and the drawings identified are to be reviewed with SED Research. It is the responsibility of manufacturers to ensure that their produced component matches both the drawing and the provided CAD file. It is the responsibility of the manufacturer to ensure the most up to date drawings provided to them are in use. All interpretations and internal drawings used by the manufacturer must be reviewed approved by SED Research. Any components that do not comply with the above or specified tolerances will not be accepted

<b>SED RESEARCH INC.</b>		PROPRIETARY AND CONFIDENTIAL - THE INFORMATION CONTAINED WITHIN THIS DRAWING IS THE SOLE PROPERTY OF SED RESEARCH INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF SED RESEARCH INC. IS PROHIBITED	
Date of issue:	23-May-2019	Title:	Jupiter 3 Antenna Dimensions
Drawn by:	JSG	Material:	
Checked by:		Revision:	Revision date:
Approved by:		Scale:	Sheet #: 1 OF 3

All dimensions are in mm unless otherwise specified. All tolerances are +0.5mm, +0.1" unless otherwise specified