Development Review Committee
1020 East Pioneer Road
Draper, Utah 84020

STAFF REPORT
February 9, 2022

To: Jennifer Jastremsky, Zoning Administrator

Jennifer Jastremsky
Digitally signed by Jennifer Jastremsky
DN: C=US, E=jennifer.jastremsky@draperutah.gov, O=Planning Division, OU=Draper City, CN=Jennifer Jastremsky
Date: 2022.02.14 17:20:08-07'00'

Approved Date

From: Maryann Pickering, AICP, Planner III
(801) 576-6391 or maryann.pickering@draperutah.gov

Re: **Verizon Sal Sand Jump – Permitted Use Permit Request**

Application No.:	USE-117-2021
Applicant:	Keleigh Glass of J5 Infrastructure
Project Location:	Approximately 15101 S. Minuteman Drive
Current Zoning:	M1 (Light Manufacturing) Zone
Acreage:	Approximately 3.88 acres (approximately 169,012 square feet)
Request:	Request for approval of a permitted use permit in the M1 zone regarding an existing wireless facility equipment upgrade.

SUMMARY AND BACKGROUND

This application is a request for approval of a permitted use permit for approximately 3.88 acres located on the east side of Minuteman Drive, at approximately 15101 S. Minuteman Drive (Exhibit B). The property is currently zoned M1. The parcel is owned by Box N Lock Storage Draper, LLC. Since the monopole has all necessary permits, and since no additional monopole height is being requested, this request may be approved at staff level and without a public hearing.

The subject monopole was approved by the Draper Planning Commission on August 28, 2014. The application was #140715-15101S. The monopole has been in continuous use since that approval.

ANALYSIS

General Plan and Zoning. The Land Use Map of the General Plan calls for the Community Commercial land use designation for the subject property (Exhibit C). This category is characterized as follows:

Community Commercial

LAND USE DESCRIPTION	
CHARACTERISTICS	• Includes the full scope of commercial land uses that require and utilize exposure to the freeway • Intended to be traveler-or commuter-oriented and should provide lodging, food, personal services and other similar uses • Frontage roads • Deeper setbacks for landscaping and enhancements • Limited traffic access points • Visual unity • Uniform design standards and aesthetics • Access to individual properties should be provided only from frontage roads • Well landscaped street frontages • Limited traffic access points for the site • Common off-street traffic circulation and parking areas • Pedestrian access from surrounding residential areas
LAND USE MIX	• Large-scale, master-planned commercial centers • Big-box stores and offices
COMPATIBLE ZONING	• Community Commercial (CC) • General Commercial (CG) • Interchange Commercial (CI) • Institutional Care (IC)
LOCATION	• Strategically placed along high-traffic corridors with convenient points of traffic access to and from residential areas

The property has been assigned the M1 zoning classification. The purpose of the M1 zone is to *"provide areas for uses involving processing and assembly of manufactured goods, warehousing, and material storage. Uses which generate excessive noise, vibration, odor, dust, and fumes are excluded from this zone."* The property is surrounded by CC (Community Commercial) zoning to the north, CR (Regional Commercial) to the east and Interstate 15 to the west. M1 zoning is located to the south.

Requested Modification. The applicant is proposing an upgrade to the existing equipment within the tower. The following is proposed:

- Remove six existing panel antennas at approximately 85'-0".

- Remove nine existing remote radio head (RRH) units at approximately 85'-0".
- Install three new panel antennas at approximately 85'-0".
- Install three new 5G L-Sub6 antennas at approximately 85'-0".
- Install six new remote radio head (RRH) units at approximately 85'-0".

There will be no changes to the height of the structure or ground space. The proposed plan set is included at Exhibit E.

Criteria for Approval. The criteria for review and potential approval of a permitted use request is found in Section 9-5-070(E) of the Draper City Municipal Code. This section depicts the standard of review for such requests as:

E. Approval Standards: The following standards shall apply to the issuance of a permitted use permit. A permitted use shall:
   1. Be allowed as a permitted use in the applicable zone;
   2. Conform to development standards of the applicable zone;
   3. Conform to applicable regulations of general applicability and regulations for specific uses set forth in this title;
   4. Not be located on any land classified as a primary or secondary conservation area or sensitive land area, except as expressly permitted by provisions of this title;
   5. Not be located in any protected area as shown on a natural resource inventory; and
   6. Conform to any other applicable requirements of this code.

REVIEWS

Planning Division Review. The Draper City Planning Division has completed their review of the Permitted Use Permit submission. Comments from this division, if any, can be found in Exhibit A.

Engineering and Public Works Divisions Review. The Draper City Engineering and Public Works Divisions have completed their reviews of the Permitted Use Permit submission. Comments from these divisions, if any, can be found in Exhibit A.

Fire Division Review. The Draper City Fire Marshal has completed his review of the Permitted Use Permit submission. Comments from this division, if any, can be found in Exhibit A.

Noticing. Notice has been properly issued in the manner outlined in the City and State Codes.

STAFF RECOMMENDATION

Staff finds that the application complies with the DCMC and recommends that the Zoning Administrator review the request and approve the application based on the findings listed below and the criteria for approval, as listed within the staff report.

If the Zoning Administrator decides to approve the request, staff recommends they include the following conditions of approval:

1. That the proposed changes will have no perceptible visual impact.
2. That the proposed changes are compliant with Section 9-41-050(E) of the DCMC.
3. The applicant shall obtain all applicable permits from Draper City Fire and the Building Division for this upgrade.

DEVELOPMENT REVIEW COMMITTEE ACKNOWLEDGEMENT

We, the undersigned, as duly appointed members of the Draper City Development Review Committee, do acknowledge that the application which provides the subject for this staff report has been reviewed by the Committee and has been found to be appropriate for review by the Draper City Planning Commission and/or City Council.

Brien Maxfield

Digitally signed by Brien Maxfield
DN: cn=Brien Maxfield, o=Draper City, ou=PW - Engineering, email=brien.maxfield@draperutah.gov, c=US
Date: 2022.02.14 09:13:44 -07'00'

Draper City Public Works Department

Jennifer Jastremsky

Digitally signed by Jennifer Jastremsky
DN: C=US, E=jennifer.jastremsky@draperutah.gov, O=Planning Division, OU=Draper City, CN=Jennifer Jastremsky
Date: 2022.02.11 09:25:39-07'00'

Draper City Planning Division

Don Buckley

Digitally signed by Don Buckley
DN: C=US, E=don.buckley@draper.ut.us, O=Draper City Fire Department, OU=Fire Marshal, CN=Don Buckley
Date: 2022.02.11 11:08:37-07'00'

Draper City Fire Department

Mike Barker

Digitally signed by Mike Barker
Date: 2022.02.11 10:05:49 -07'00'

Draper City Legal Counsel

Keith Collier

Digitally signed by Keith Collier
DN: C=US, E=keith.collier@draperutah.gov, O=Draper City, OU=Building Official, CN=Keith Collier
Date: 2022.02.11 10:18:43-07'00'

Draper City Building Division

EXHIBIT A
DEPARTMENT REVIEWS

REVIEWS ARE NOT MEANT TO BE AN ALL INCLUSIVE LIST OF POSSIBLE COMMENTS OR CONDITIONS.

Planning Division Review
No additional comments provided.

Engineering and Public Works Divisions Review.
No additional comments provided.

Fire Division Review.

1. 2A-10BC Fire Extinguishers required. The extinguisher needs to be a serviceable type meaning metal head and metal neck. Extinguishers need to be located in a conspicuous location where they will be readily accessible and immediately available for use. Placed on every level of the home. If in cabinet or not the extinguisher or cabinet needs to be mounted so that the top is not more than five (5) feet above the floor.
2. Fire Department Access is required to be maintained. Vehicles cannot park in such a way to impede fire department or emergency vehicle access.
3. Hazardous Material Permit – A Draper City Fire Hazardous Material Permit may need to be obtained. This is for all new and existing installations.

EXHIBIT B
AERIAL MAP

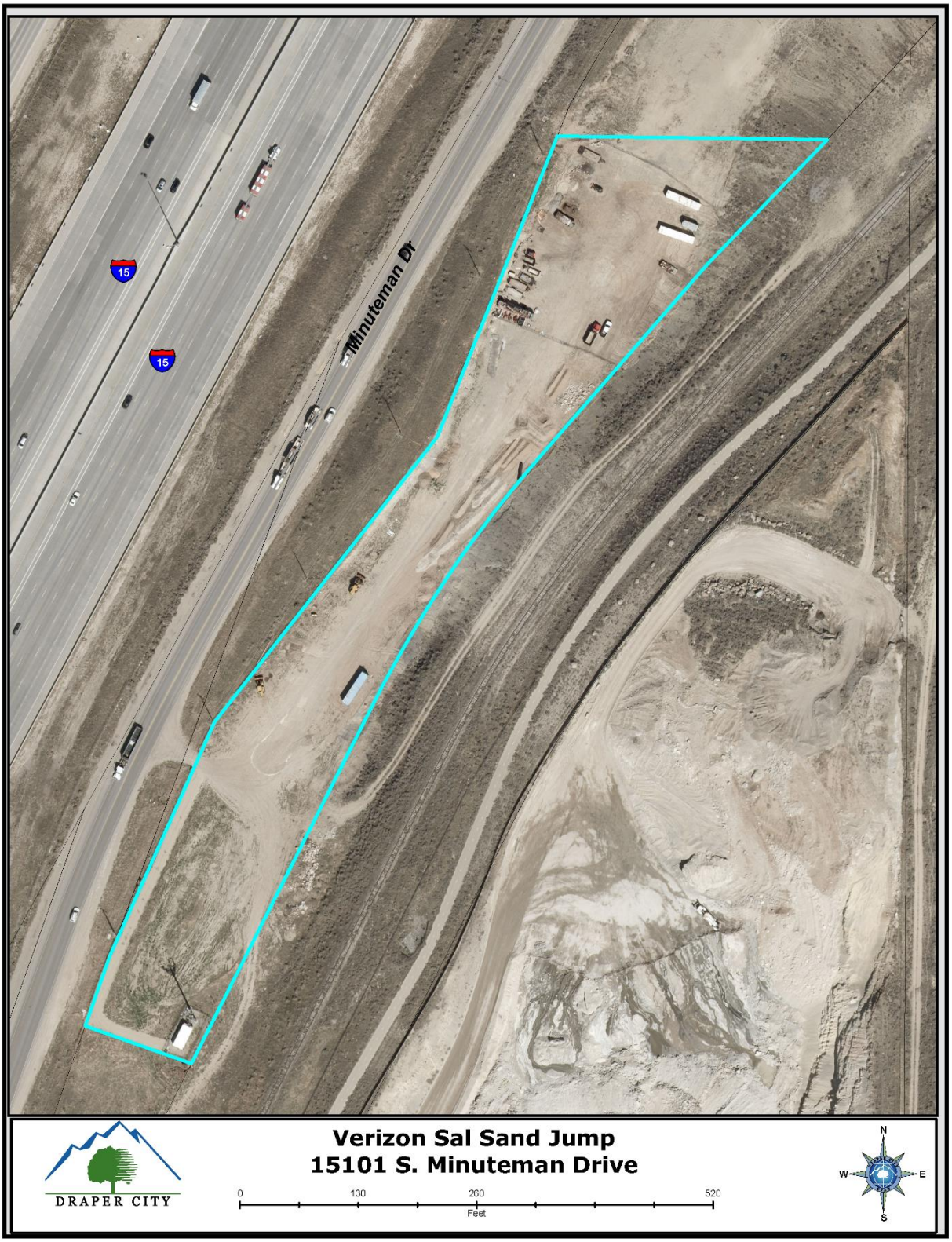


EXHIBIT C
LAND USE MAP

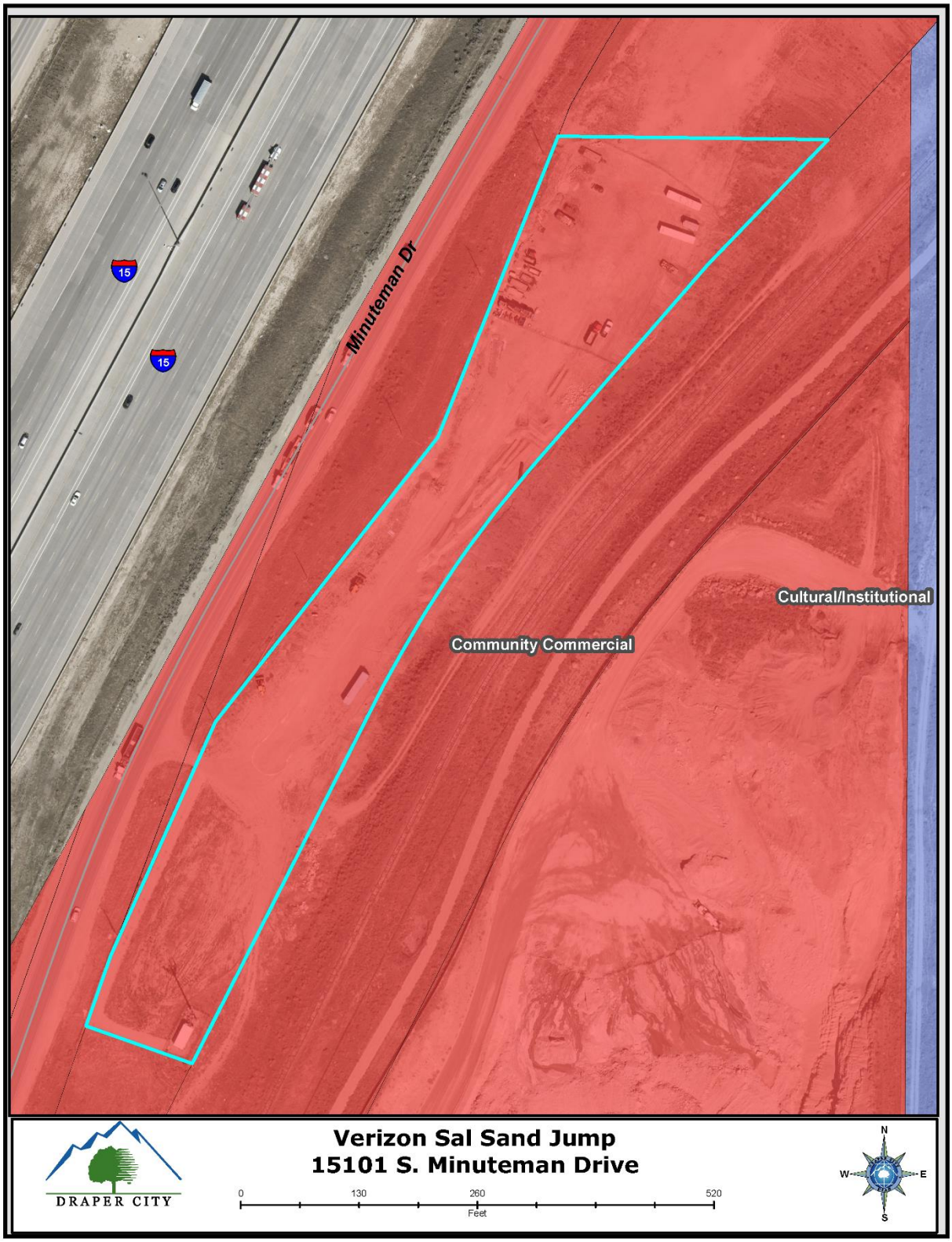


EXHIBIT D
ZONING MAP

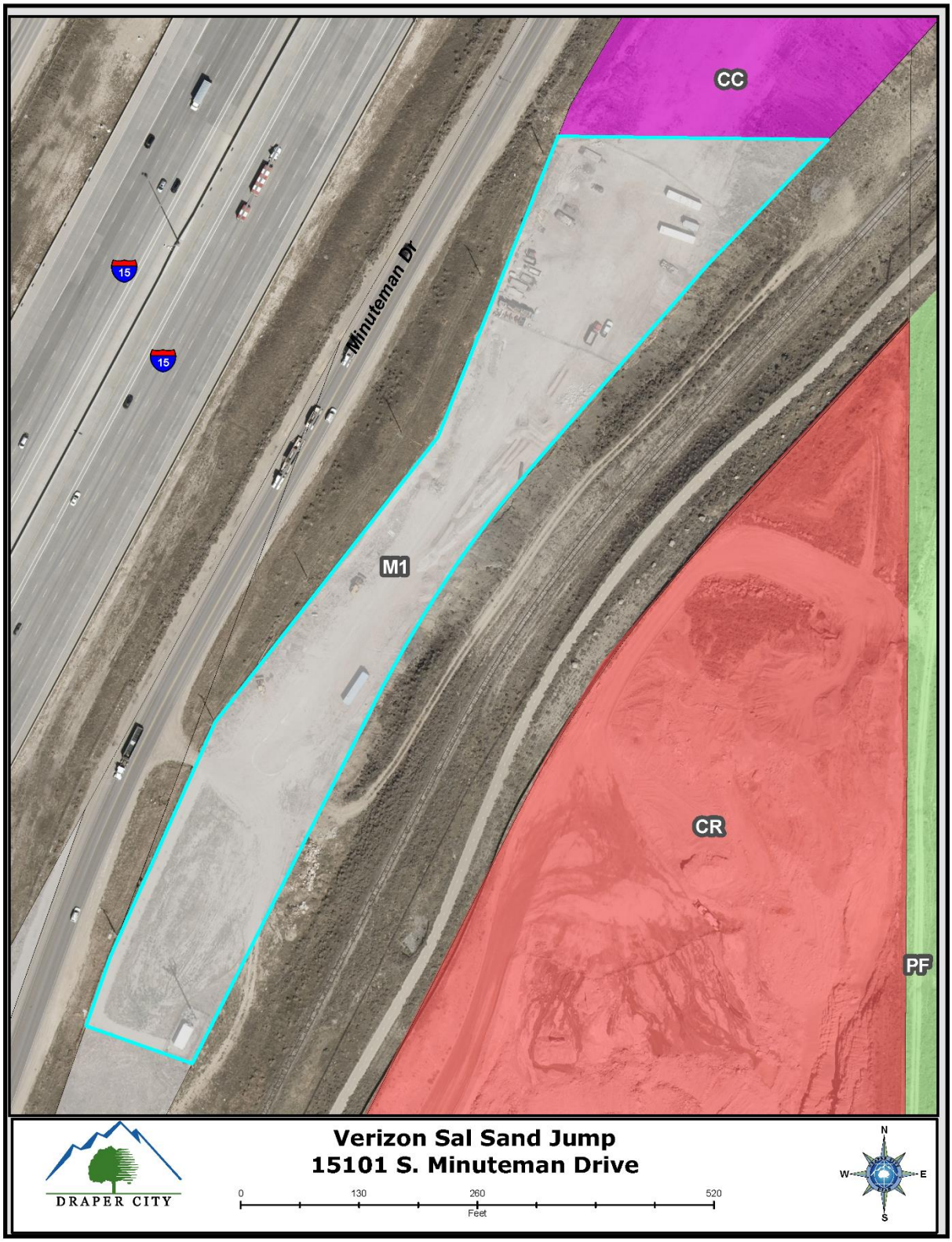


EXHIBIT E
PROPOSED PLANS

EXISTING EQUIPMENT/EASEMENT	ACCESS EASEMENT	UTILITY EASEMENT	LEASE AREA	POWER	FIBER	HYBRID/COAX	RRHS	ANTENNAS	PENETRATIONS

CONTRACTOR PMI REQUIREMENTS:	
PMI ACCESS:	http://pmi.vzwsmart.com
SMART TOOL PROJECT NUMBER:	10017146
VZW LOCATION CODE: (PLSC):	266111

verizon

SAL SAND JUMP

15101 S MINUTEMAN DR
DRAPER, UTAH 84020
SALT LAKE COUNTY

EXISTING COMMUNICATION SITE
C-BAND INSTALLATION PROJECT

DESIGNED FOR:

verizon

9656 SOUTH PROSPERITY ROAD
WEST JORDAN, UTAH 84081

DESIGNED BY:

J5 INFRASTRUCTURE PARTNERS

REV	DESCRIPTION	DATE	BY	CHK
0	APPROVED FOR CONSTRUCTION	4/16/21	JSP	AW

SHEET INDEX:

PROJECT INDEX:

APPLICANT:
VERIZON WIRELESS
9656 SOUTH PROSPERITY ROAD
WEST JORDAN, UTAH 84081

CONTACT: CLIFF HEIB
PHONE: 208-251-7500

ENGINEERS/DESIGNERS:
J5 INFRASTRUCTURE PARTNERS
5225 WILEY POST WAY, SUITE 410
SALT LAKE CITY, UT 84116

CONTACT: ALYSSA WINTERTON
PHONE: 801-336-4694 EXT. 173

SITE/AQ:
J5 INFRASTRUCTURE PARTNERS
5225 WILEY POST WAY, SUITE 410
SALT LAKE CITY, UTAH 84116

CONTACT: KELEIGH GLASS
PHONE: 801-336-4694 EXT. 166

ADA COMPLIANCE:

THIS FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. LANDINGS AND EXITS SHALL COMPLY WITH ALL APPLICABLE BUILDING CODES.

GENERAL PROJECT NOTES:

1. PRIOR TO SUBMITTING A BID, THE CONTRACTOR SHALL FAMILIARIZE HIMSELF/HERSELF WITH THE SCOPE OF WORK AND ALL CONDITIONS AFFECTING THE NEW PROJECT.
2. CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS AND DIMENSIONS OF THE JOB SITE AND CONFIRM THAT WORK AS INDICATED ON THESE CONSTRUCTION DOCUMENTS CAN BE ACCOMPLISHED AS SHOWN PRIOR TO COMMENCEMENT OF ANY WORK.
3. ALL FIELD MODIFICATIONS BEFORE, DURING, OR AFTER CONSTRUCTION SHALL BE APPROVED IN WRITING BY A VERIZON REPRESENTATIVE.
4. INSTALL ALL EQUIPMENT AND MATERIALS PER THE MANUFACTURER'S RECOMMENDATIONS, U.N.O.
5. NOTIFY VERIZON, IN WRITING, OF ANY MAJOR DISCREPANCIES REGARDING THE CONTRACT DOCUMENTS, EXISTING CONDITIONS, AND DESIGN INTENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATIONS FROM A VERIZON REPRESENTATIVE AND ADJUSTING THE BID ACCORDINGLY.
6. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF THE WORK UNDER THE CONTRACT.
7. CONTRACTOR SHALL PROTECT ALL EXISTING IMPROVEMENTS AND FINISHES THAT ARE TO REMAIN. CONTRACTOR SHALL REPAIR ANY DAMAGE THAT MAY OCCUR DURING THE CONSTRUCTION TO THE SATISFACTION OF A VERIZON REPRESENTATIVE.
8. THE CONTRACTOR IS RESPONSIBLE FOR RED-LINING THE CONSTRUCTION PLANS TO ILLUSTRATE THE AS BUILT CONDITION OF THE SITE. FOLLOWING THE FINAL INSPECTION BY VERIZON, THE CONTRACTOR SHALL PROVIDE VERIZON WITH ONE COPY OF ALL RED-LINED DRAWINGS.
9. VERIFY ALL FINAL EQUIPMENT WITH A VERIZON REPRESENTATIVE. ALL EQUIPMENT LAYOUT, SPECS, PERFORMANCE INSTALLATION AND THEIR FINAL LOCATION ARE TO BE APPROVED BY VERIZON. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING HIS/HER WORK WITH THE WORK AND CLEARANCES REQUIRED BY OTHERS RELATED TO SAID INSTALLATIONS.

PROJECT INFORMATION:

PROPERTY OWNER:	BOX N LOCK STORAGE DRAPER 15101 S MINUTEMAN DR DRAPER, UT 84020
JURISDICTION:	DRAPER, UT 1020 E PIONEER RD PHONE: 801-571-6535
PUBLIC RECORD PARCEL NO:	33131000180000
OCCUPANCY CLASSIFICATION:	U - UTILITY & MISC.
TYPE OF CONSTRUCTION:	TYPE II-B

DRIVING DIRECTIONS:

LATITUDE:	40°28'32.8188"N
LONGITUDE:	111°54'13.4712"W

FROM THE VERIZON OFFICE LOCATED AT 9656 S PROSPERITY ROAD IN WEST JORDAN: HEAD SOUTH ON PROSPERITY ROAD (0.7 MI), TURN LEFT ONTO 10200 S (0.4 MI), TURN RIGHT ONTO UT-85 (4.5 MI), TURN LEFT ONTO 13400 S (1.1 MI), TURN RIGHT ONTO BANGERTER HWY (5.2 MI), USE THE RIGHT LANE TO MERGE ONTO I-15 S (1.3 MI), USE THE 2ND FROM THE RIGHT LANE TO TAKE EXIT 288 FOR UT-140 TOWARD 14600 S (0.2 MI), KEEP LEFT AT THE FORK (463 FT), CONTINUE STRAIGHT ONTO UT-140 E (0.2 MI), TURN RIGHT ONTO MINUTEMAN DR (0.6 MI) TURN LEFT (40 FT), TURN RIGHT (0.1 MI), TURN LEFT (100 FT), DESTINATION WILL BE STRAIGHT AHEAD.

PROJECT DESCRIPTION:

THIS PROJECT CONSISTS OF THE FOLLOWING:

REMOVAL
- SIX (6) EXISTING PANEL ANTENNAS
- NINE (9) EXISTING RRH UNITS
- ONE (1) EXISTING 3315 OVP UNIT
- ONE (1) EXISTING 2260 OVP UNIT (IN BBU RACK)
- ONE (1) EXISTING 6x12 HYBRID CABLE

INSTALLATION
- FOUR (4) NEW PANEL ANTENNAS
- THREE (3) NEW 4449 RRH UNITS
- THREE (3) NEW 8843 RRH UNITS
- FIVE (5) NEW RECTIFIERS (WITHIN PDF RACK)
- TWO (2) NEW 6630 BBU UNITS (WITHIN BBU RACK)
- ONE (1) NEW 6648 BBU UNIT (WITHIN BBU RACK)
- TWO (2) NEW POWERSHIFT UP CONVERTER UNITS (WITHIN CABINET)
- ONE (1) NEW 6627 OVP UNIT
- ONE (1) NEW 4520 OVP UNIT
- ONE (1) NEW 12x24 HYBRID CABLE

VICINITY MAP
SCALE: N.T.S.

NORTH

REG. NO. 11372141-2202
SEUNG TAE KIM
STATE OF UTAH
PROFESSIONAL ENGINEER

4/16/21

PROJECT NAME:

SAL SAND JUMP

C-BAND INSTALLATION PROJECT

PROJECT ADDRESS:

15101 S MINUTEMAN DR
DRAPER, UTAH 84020
SALT LAKE COUNTY

SHEET TITLE:

TITLE SHEET

SAVE DATE:

4/16/2021 1:40 PM

SHEET NUMBER:

T1

EXISTING EQUIPMENT/EASEMENT	ACCESS EASEMENT	UTILITY EASEMENT	LEASE AREA	POWER	FIBER	HYBRID/COAX	RRHS	ANTENNAS	PENETRATIONS

GENERAL PROJECT NOTES:

1.	CONTRACTOR IS RESPONSIBLE FOR ERECTING TEMPORARY BARRICADES AND/OR FENCING TO PROTECT THE SAFETY OF THE PUBLIC DURING CONSTRUCTION. THE CONTRACTOR SHALL REMOVE ALL TEMPORARY BARRIERS AND REPAIR ALL DAMAGE TO PROPERTY ON THE SITE CAUSED BY THIS CONSTRUCTION. THE COST OF REPAIR IS THE CONTRACTOR'S RESPONSIBILITY.
2.	ALL WORK SHALL BE IN ACCORDANCE WITH APPLICABLE LOCAL, STATE, AND FEDERAL REQUIREMENTS.
3.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL MEASUREMENTS AT THE SITE PRIOR TO ORDERING ANY MATERIALS OR CONDUCTING ANY WORK.
4.	EXCESS SOIL MATERIAL AND DEBRIS CAUSED BY THIS CONSTRUCTION SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LEGAL MANNER.
5.	CONTRACTOR SHALL MAKE ADJUSTMENTS TO GRADING ELEVATIONS AS NECESSARY TO ENSURE A SITE FREE OF DRAINAGE PROBLEMS.
6.	CONTRACTOR SHALL COORDINATE A CONSTRUCTION LAYDOWN AREA WITH THE PROPERTY OWNER. CONSTRUCTION LAYDOWN AREA SHALL BE FENCED–IN WITH TEMPORARY (45 DAY) CONSTRUCTION FENCE. THE TEMPORARY FENCE SHALL BE CONSTRUCTED OF 6' HIGH CHAIN LINK FABRIC AND IS TO BE REMOVED AT THE END OF CONSTRUCTION. LAYDOWN AREA IS TO BE RESTORED TO ITS ORIGINAL CONDITION AFTER FENCE REMOVAL.
7.	SURVEY INFORMATION SHOWN WAS CREATED FROM RECORD INFORMATION AND DOES NOT CONSTITUTE A LEGAL BOUNDARY SURVEY.
8.	THESE PLANS DO NOT ADDRESS THE SAFETY AND STABILITY OF THE STRUCTURE DURING ASSEMBLY AND ERECTION, WHICH ARE THE RESPONSIBILITY OF THE ERECTOR, BASED ON THE MEANS AND METHODS CHOSEN BY THE ERECTOR.

GENERAL CONTRACTOR NOTES:

1.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE PROJECT SCOPE OF WORK DEFINED UNDER THE REQUEST FOR PROPOSAL (RFP) FOR THIS PROJECT AND ALL ASSOCIATED ATTACHMENTS AND DOCUMENTS PROVIDED. THE RFP AND ALL ASSOCIATED DOCUMENTS SHALL DEFINE THE COMPLETE PROJECT SCOPE OF WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH ALL DOCUMENTS AND IS SOLELY RESPONSIBLE FOR ALL WORK. ALL DOCUMENTS INCLUDED WITHIN THE PROJECT REQUEST FOR PROPOSAL ARE REQUIRED FOR THE COMPLETE PROJECT SCOPE OF WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK (EQUIPMENT, MATERIAL, INSTALLATION, TESTING, ETC.) INDICATED IN ALL DOCUMENTS. THE RFP, VERIZON NETWORK STANDARDS AND PROJECT ADDENDUMS AND CLARIFICATIONS ARE COMPLEMENTARY TO EACH OTHER. THE FORMAT OF THE SPECIFICATIONS AND DRAWING NUMBERING PER DISCIPLINE IS NOT INTENDED TO IMPLY SEGREGATION OF SUB CONTRACTOR WORK. CONTRACTOR SHALL ASSIGN ALL SUB CONTRACTOR WORK AND VERIZON WILL NOT ACCEPT ANY CHANGE ORDERS FOR INTERNAL CONTRACTOR WORK ASSIGNMENTS. CONTRACTOR SHALL BE RESPONSIBLE FOR DISTRIBUTING ALL RFP DOCUMENTS TO THEIR SUB CONTRACTORS. ALL RFP DOCUMENTS ARE REQUIRED TO INDICATE THE PROJECT SCOPE OF WORK. PARTIAL SUB CONTRACTOR DOCUMENT PACKAGES ARE HIGHLY DISCOURAGED. IN THE EVENT OF A CONFLICT BETWEEN THE DRAWINGS, SPECIFICATIONS, REFERENCED STANDARDS, VERIZON STANDARDS, OR AGREEMENT TERMS AND CONDITIONS THE ARCHITECT/ ENGINEER SHALL BE CONTACTED FOR FORMAL INTERPRETATION OF THE REQUIREMENTS. THE CONTRACTOR SHALL BE DEEMED TO HAVE PROVIDED THE DETAILED AND EXTENSIVE INTERPRETATION. ANY WORK INSTALLED IN CONFLICT WITH THE ARCHITECT/ ENGINEER INTERPRETATIONS SHALL BE CORRECTED BY THE CONTRACTOR AT NO EXPENSE TO VERIZON.
2.	ALL ANTENNAS MUST BE PIM TESTED WITHIN 48 HOURS OF THEM BEING RECEIVED BY THE INSTALLATION CONTRACTOR. THOSE RESULTS MUST BE SENT BACK TO THE VERIZON CONSTRUCTION ENGINEER AND EQUIPMENT ENGINEER WITHIN THE SAME 48 HOURS. IF YOU MISS THE 48HR TIMELINE AND THE ANTENNAS DO NOT PASS UPON INSTALLATION, YOUR COMPANY WILL BE CHARGED FOR THE COST OF THE ANTENNAS FOR REPLACEMENT.
3.	ALL LOADS MUST BE SECURED PROPERLY TO THE VEHICLE OR TRAILER. VERIZON WILL PASS ALONG THE COST OF ANY REPLACEMENTS DUE TO DAMAGE OR LOSS WHETHER IT IS NEW OR USED.

ANTENNA, MOUNTS & HARDWARE INSTALLATION NOTES:

1.	CONTRACTOR TO INSTALL ANTENNAS, MOUNTS AND TOWER HARDWARE PER MANUFACTURER'S RECOMMENDATIONS (OR AS REQUIRED BY THE OWNER/PROVIDER).
2.	ALL BOLTS SHALL BE TIGHTENED PER AISC REQUIREMENTS.
3.	ANY GALVANIZED SURFACES THAT ARE DAMAGED BY ABRASIONS, CUTS, DRILLING OR FIELD WELDING DURING SHIPPING OR ERECTION SHALL BE TOUCHED–UP WITH TWO COATS OF COLD GALVANIZING COMPOUND MEETING THE REQUIREMENTS OF ASTM A780.
4.	ANTENNA MOUNTS SHALL NOT BE USED AS A CLIMBING DEVICE. WORKERS SHALL ALWAYS TIE OFF TO AN APPROVED CLIMBING POINT.
5.	SEE ALSO GENERAL ANTENNA NOTES ON SHEET RF1 (IF APPLICABLE).

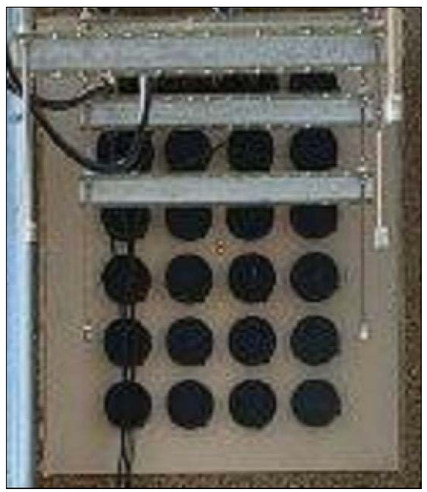
MAIN OVP, SECTOR BOX, RRH, TMA, & DIPLEXER INSTALLATION NOTES:

1.	CONTRACTOR TO INSTALL MAIN OVP, SECTOR BOXES, REMOTE RADIO HEADS, TOWER MOUNTED AMPLIFIERS, AND/OR DIPLEXERS PER MANUFACTURER'S RECOMMENDATIONS.
2.	ALL BOLTS SHALL BE TIGHTENED PER AISC REQUIREMENTS.
3.	ANY GALVANIZED SURFACES THAT ARE DAMAGED BY ABRASIONS, CUTS, DRILLING OR FIELD WELDING DURING SHIPPING OR ERECTION SHALL BE TOUCHED–UP WITH TWO COATS OF COLD GALVANIZING COMPOUND MEETING THE REQUIREMENTS OF ASTM A780.

COAX PORT NOTES:

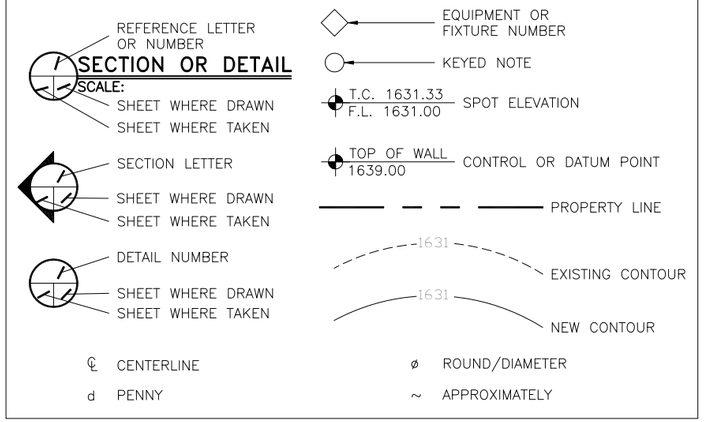
1.	REQUIRED ADDITIONAL COAX PORTS TO BE ADDED AS NEEDED BY CONTRACTOR.
2.	ANY ADDITIONAL COAX PORTS TO BE INSTALLED BELOW THE EXISTING, WHERE POSSIBLE.
3.	CONTRACTOR TO INVESTIGATE INTERIOR OF SHELTER/EQUIPMENT ROOM FOR CLEAREST PENETRATION POINT.
4.	ADDITIONAL COAX PORTS TO BE INSTALLED PER INDUSTRY STANDARDS.

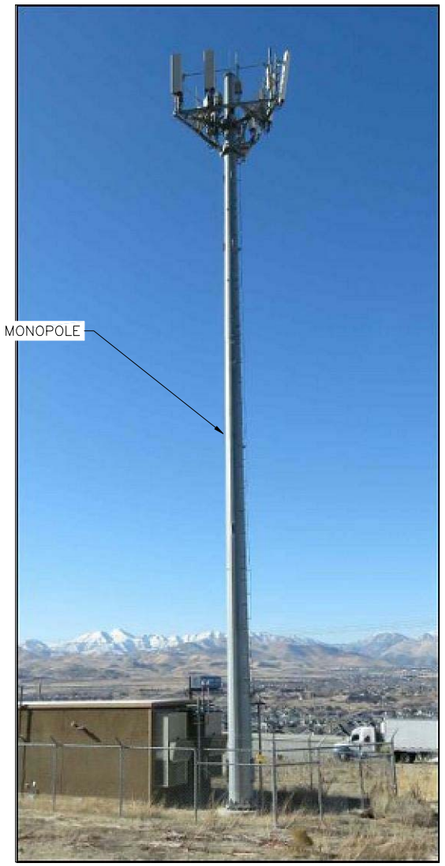
VIEW OF EXISTING ANTENNAS



VIEW OF EXISTING COAX PORT

LEGEND OF SYMBOLS:





VIEW OF EXISTING BUILDING
(LOOKING SOUTHWEST)

DESIGNED FOR:

verizon

9656 SOUTH PROSPERITY ROAD
WEST JORDAN, UTAH 84081

DESIGNED BY:

J5 INFRASTRUCTURE PARTNERS

REV	DESCRIPTION	DATE	BY	CHK
0	APPROVED FOR CONSTRUCTION	4/16/21	JSP	AW

REGISTERED PROFESSIONAL ENGINEER
NO. 11372141-2202
SEUNG TAE KIM
STATE OF UTAH
4/16/21

PROJECT NAME:

SAL SAND JUMP

C-BAND INSTALLATION PROJECT

PROJECT ADDRESS:

15101 S MINUTEMAN DR
DRAPER, UTAH 84020
SALT LAKE COUNTY

SHEET TITLE:

SPECIFICATION
& PHOTO SHEET

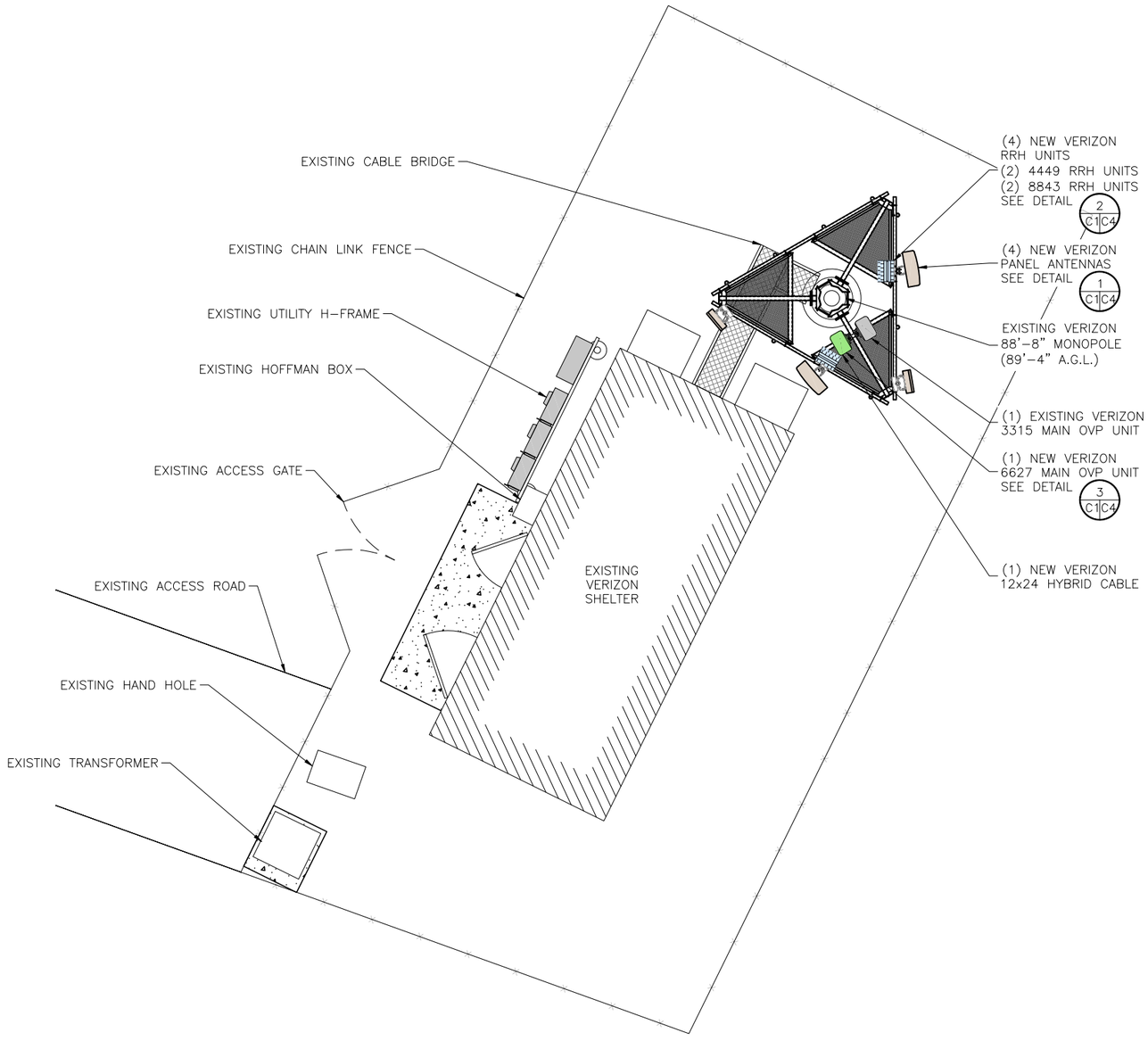
SAVE DATE:

4/16/2021 1:40 PM

SHEET NUMBER:

SP1

EXISTING EQUIPMENT/EASEMENT | ACCESS EASEMENT | UTILITY EASEMENT | LEASE AREA | POWER | FIBER | HYBRID/COAX | RRHS | ANTENNAS | PENETRATIONS



8'-0" 0 8'-0"
6' 4' 2'
SCALE: ⅛" = 1'-0"

SITE PLAN

NORTH

DESIGNED FOR:

verizon

9656 SOUTH PROSPERITY ROAD
WEST JORDAN, UTAH 84081

DESIGNED BY:

J5 INFRASTRUCTURE PARTNERS

REV	DESCRIPTION	DATE	BY	CHK
0	APPROVED FOR CONSTRUCTION	4/16/21	JSP	AW

REGISTERED PROFESSIONAL ENGINEER
NO. 11372141-2202
SEUNG TAE KIM
STATE OF UTAH
4/16/21

PROJECT NAME:

SAL SAND JUMP

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15101 S MINUTEMAN DR
DRAPER, UTAH 84020
SALT LAKE COUNTY

SHEET TITLE:

SITE PLAN

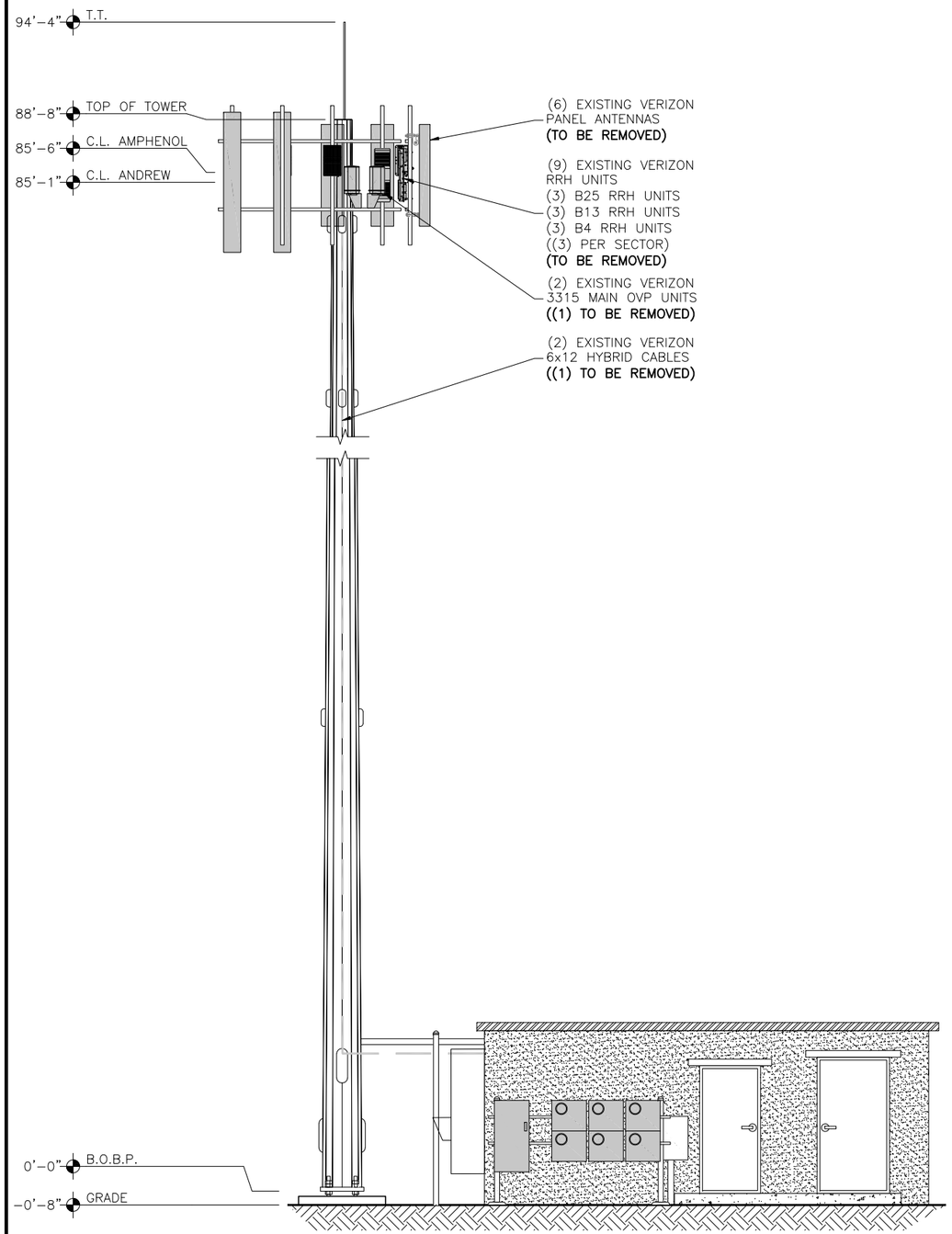
SAVE DATE:

4/16/2021 1:40 PM

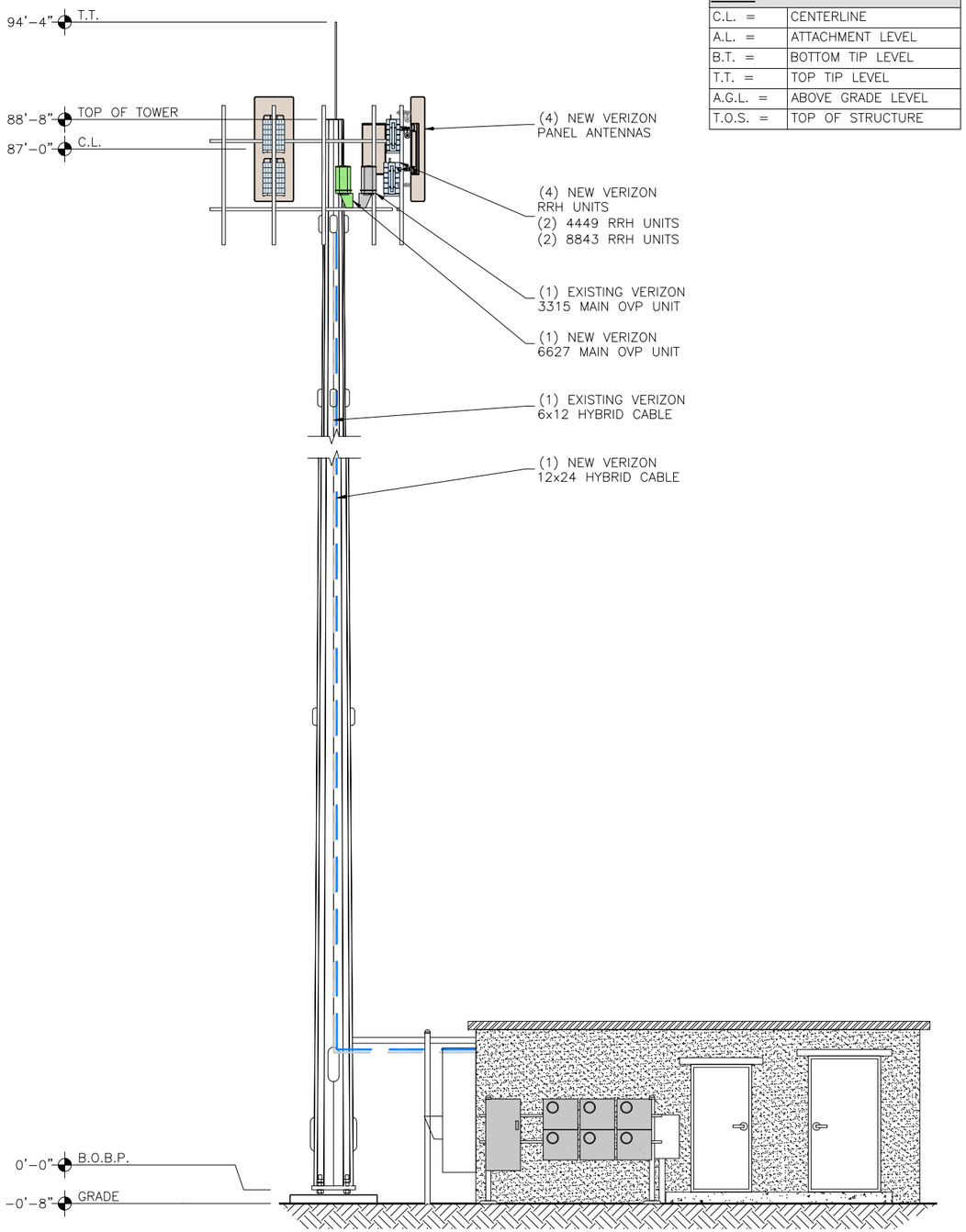
SHEET NUMBER:

C1

EXISTING EQUIPMENT/EASEMENT | ACCESS EASEMENT | UTILITY EASEMENT | LEASE AREA | POWER | FIBER | HYBRID/COAX | RRHS | ANTENNAS | PENETRATIONS



EXISTING SOUTH ELEVATION
SCALE:1/8"=1'-0"



NEW SOUTH ELEVATION
SCALE:1/8"=1'-0"

KEY:	
C.L. =	CENTERLINE
A.L. =	ATTACHMENT LEVEL
B.T. =	BOTTOM TIP LEVEL
T.T. =	TOP TIP LEVEL
A.G.L. =	ABOVE GRADE LEVEL
T.O.S. =	TOP OF STRUCTURE

DESIGNED FOR:

verizon

9656 SOUTH PROSPERITY ROAD
WEST JORDAN, UTAH 84081

DESIGNED BY:

J5 INFRASTRUCTURE PARTNERS

REV	DESCRIPTION	DATE	BY	CHK
0	APPROVED FOR CONSTRUCTION	4/16/21	JSP	AW

REGISTERED PROFESSIONAL ENGINEER
NO. 11372141-2202
SEUNG TAE KIM
STATE OF UTAH
4/16/21

PROJECT NAME:

SAL SAND JUMP

C-BAND INSTALLATION PROJECT

PROJECT ADDRESS:

15101 S MINUTEMAN DR
DRAPER, UTAH 84020
SALT LAKE COUNTY

SHEET TITLE:

ELEVATIONS

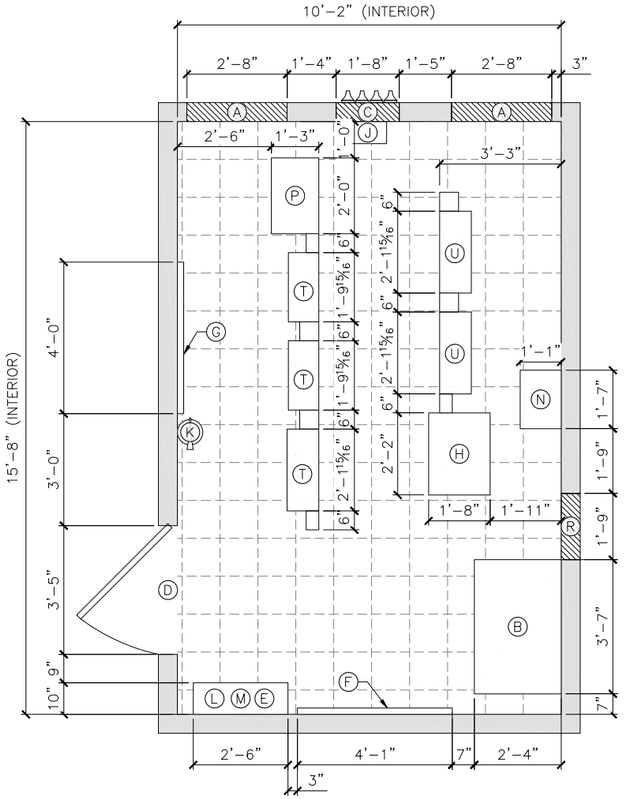
SAVE DATE:

4/16/2021 1:40 PM

SHEET NUMBER:

C2

EXISTING EQUIPMENT/EASEMENT | ACCESS EASEMENT | UTILITY EASEMENT | LEASE AREA | POWER | FIBER | HYBRID/COAX | RRHS | ANTENNAS | PENETRATIONS



SHELTER MAPPING
SCALE: 1/4"=1'-0"

NORTH

KEYED NOTES:

(A)	HVAC
(B)	BATTERY RACK
(C)	COAX PORT
(D)	ACCESS DOOR
(E)	INTEGRATED LOAD CENTER
(F)	TELCO BOARD
(G)	SAFETY BOARD
(H)	DC POWER DISTRIBUTION CENTER
(J)	TEMPERATURE CONTROL
(K)	FIRE EXTINGUISHER
(L)	AUTOMATIC TRANSFER SWITCH
(M)	A/C PANEL
(N)	DEHYDRATOR
(P)	FIBER/OVP/BBU RACK
(R)	VENT
(T)	CRAN RACK
(U)	ONE FIBER 23" RACK

POWER INFORMATION:

BATTERIES:

TYPE: POWERSAFE ENERSYS
MODEL #: DDMP85-15
QUANTITY: 48

PDF:

TYPE: GE
MODEL #: H5692448 G104

RECTIFIERS:

TYPE: GE
MODEL #: NE050AC48ATEZ
QUANTITY: 4

CONVERTERS:

TYPE: GE
MODEL #: NE075DC24A
QUANTITY: 2

GENERATOR:

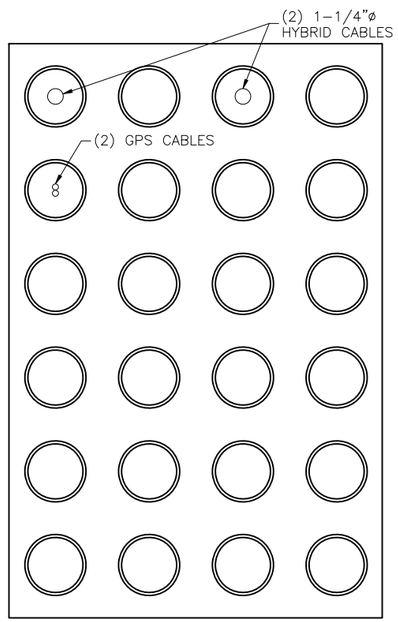
TYPE: GENERAC
MODEL #: 0062900
TANK: 210 GALLONS
SIZE: 48KW

NEW HYBRID CABLE LENGTHS:

FROM (OVP) TO (C-BAND ANTENNAS)				
C-BAND ANTENNA JUMPERS	SECTOR	CABLE/COAX SIZE (NOMINAL)	CABLE/COAX (QUANTITY)	CABLE/COAX LENGTH
	BETA	HYB 1X1	**(1) NEW**	10'
	GAMMA	HYB 1X1	**(1) NEW**	10'
FROM (RRH) TO (ANTENNAS)				
LTE ANTENNA JUMPERS	SECTOR	CABLE/COAX SIZE (NOMINAL)	CABLE/COAX (QUANTITY)	CABLE/COAX LENGTH
	BETA	½"ø	(12) NEW	CUT TO FIT
	GAMMA	½"ø	(12) NEW	CUT TO FIT
FROM (MOVP) TO (RRH)				
RRH JUMPERS	SECTOR	CABLE/COAX SIZE (NOMINAL)	CABLE/COAX (QUANTITY)	CABLE/COAX LENGTH
	BETA	HYB 1X1	(2) NEW	10'
	GAMMA	HYB 1X1	(2) NEW	10'
FROM (MOVP) TO (MOVP)				
MAIN TRUNK	SECTOR	CABLE/COAX SIZE (NOMINAL)	CABLE/COAX (QUANTITY)	CABLE/COAX LENGTH
	–	HYB 6X12	(1) EXISTING	~120'
	–	HYB 12X24	(1) NEW	~120'

PROJECT NOTES:

1. INSTALL (5) 48V, 50A RECTIFIERS (IN PDF RACK).
2. INSTALL (2) NEW BBU 6630 UNITS AND (1) NEW BBU 6648 UNIT (WITHIN BBU RACK).
3. REPLACE (1) EXISTING 2260 OVP WITH (1) NEW 4520 OVP UNIT (IN BBU RACK).
4. INSTALL (2) NEW POWERSHIFT UP CONVERTERS (IN PDF RACK).



COAX PORT DIAGRAM

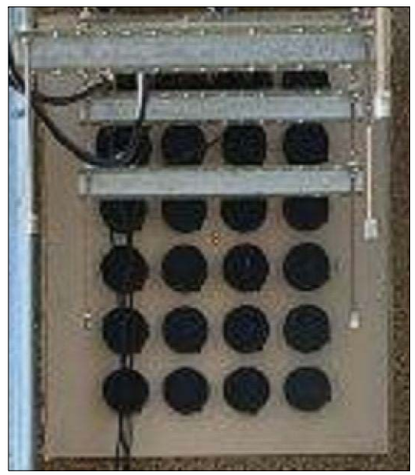


PHOTO OF
EXISTING COAX PORT

DESIGNED FOR:

verizon

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DRAPER, UTAH 84020
SALT LAKE COUNTY

SHEET TITLE:

SHELTER MAPPING
& RRH CABLE CHART

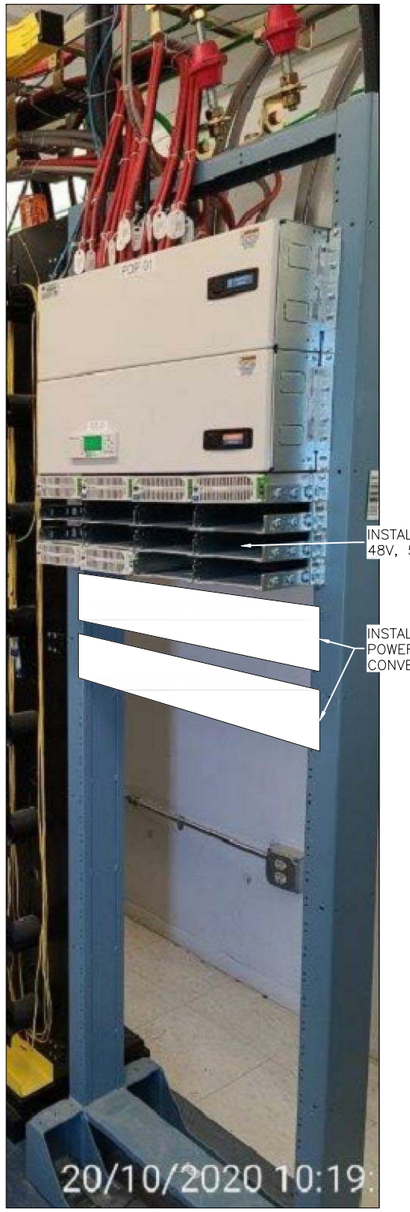
SAVE DATE:

4/16/2021 1:40 PM

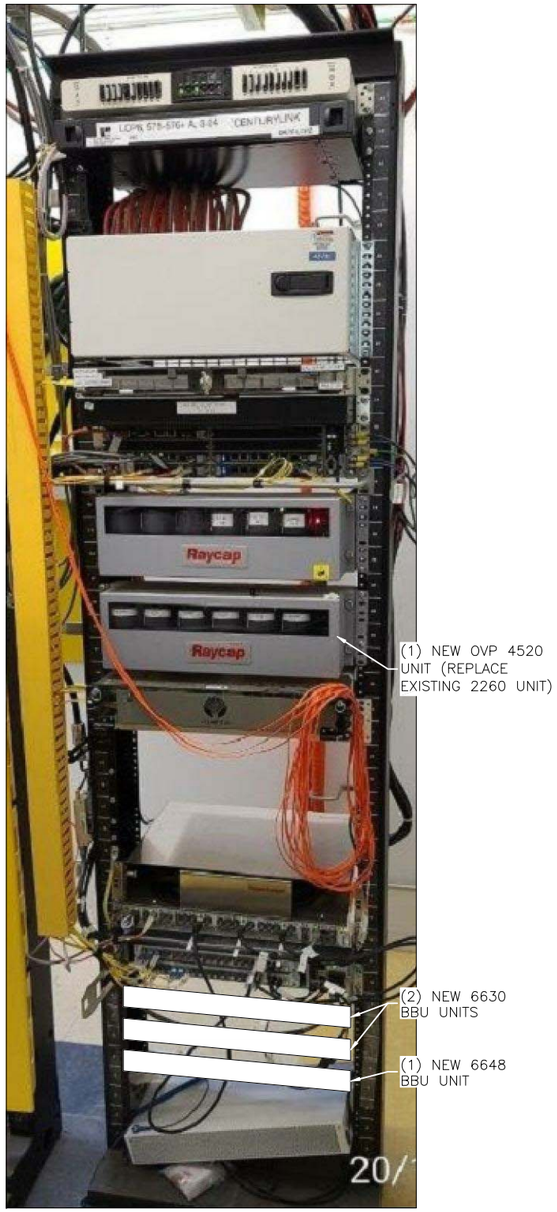
SHEET NUMBER:

C3

EXISTING EQUIPMENT/EASEMENT | ACCESS EASEMENT | UTILITY EASEMENT | LEASE AREA | POWER | FIBER | HYBRID/COAX | RRHS | ANTENNAS | PENETRATIONS



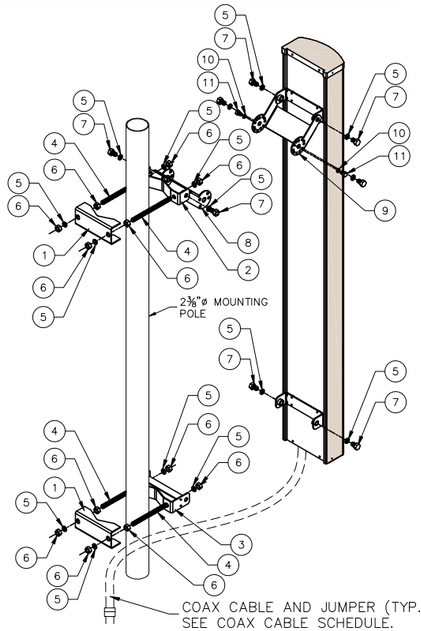
UPDATED PDF RACK CONFIGURATION



UPDATED BBU RACK CONFIGURATION

NOTE:

CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL MOUNTING HARDWARE

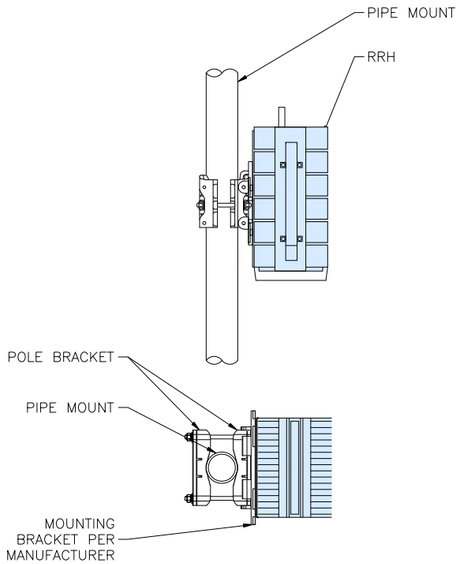


1 C1 C4 ANTENNA ATTACHMENT DETAIL
SCALE: N.T.S.

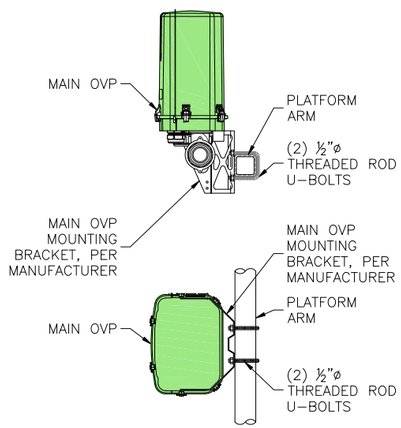
ANTENNA ATTACHMENT HARDWARE:

ITEM	PART NO.	QTY.	DESCRIPTION
①	601553-1	2	BRACKET, CLAMP
②	601539-1	1	ADAPTER, POLE
③	802355-4	1	ADAPTER, POLE LOWER
④	ROD190003	4	½" x 7" THREADED ROD
⑤	WSH150003	12	½" SPLIT WASHER
⑥	NUT150001	12	½" HEX HEAD NUT
⑦	BLT140002	6	½" x 1" HEX HEAD BOLT
⑧	601730-1	1	BRACKET, DOWNTILT POLE
⑨	601735-1	1	BRACKET, DOWNTILT, ANTENNA
⑩	WSH150006	2	5/16" SPLIT WASHER
⑪	BLT140004	2	5/16" HEX HEAD BOLT

OVERALL WEIGHT: 10.75 LBS.



2 C1 C4 RRH MOUNTING DETAIL
SCALE: N.T.S.



3 C1 C4 MAIN OVP BOX MOUNTING DETAIL
SCALE: N.T.S.

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C-BAND INSTALLATION PROJECT

PROJECT ADDRESS:

15101 S MINUTEMAN DR
DRAPER, UTAH 84020
SALT LAKE COUNTY

SHEET TITLE:

SECTIONS & DETAILS

SAVE DATE:

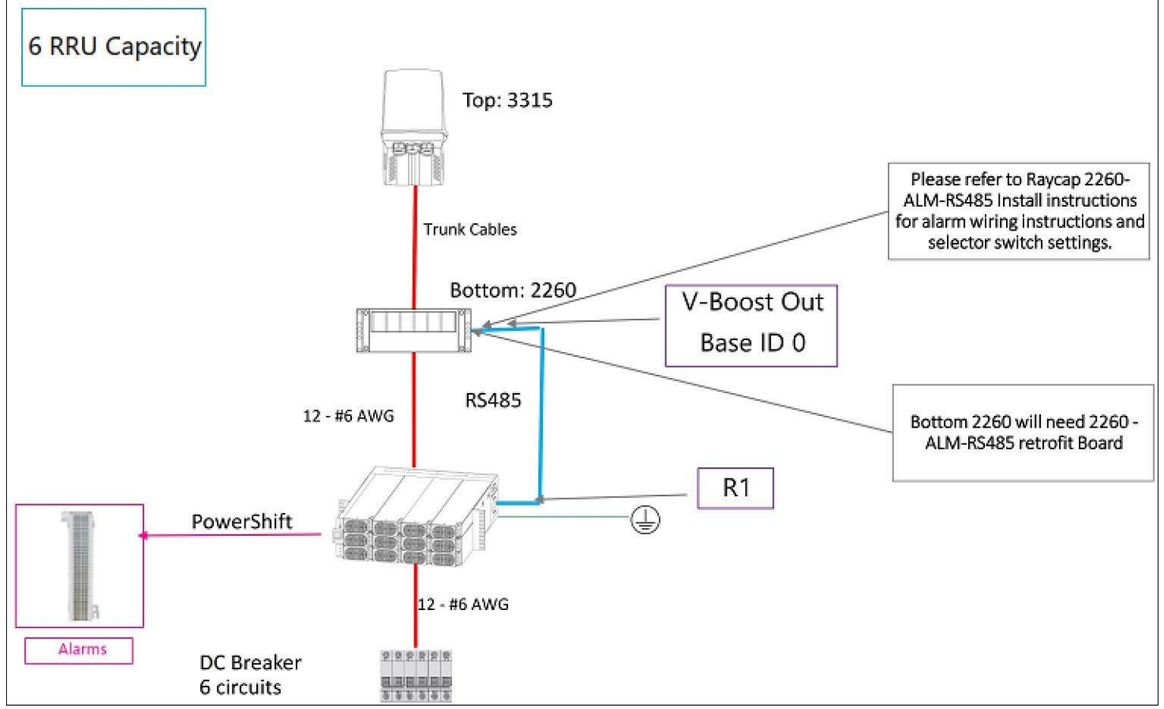
4/16/2021 1:40 PM

SHEET NUMBER:

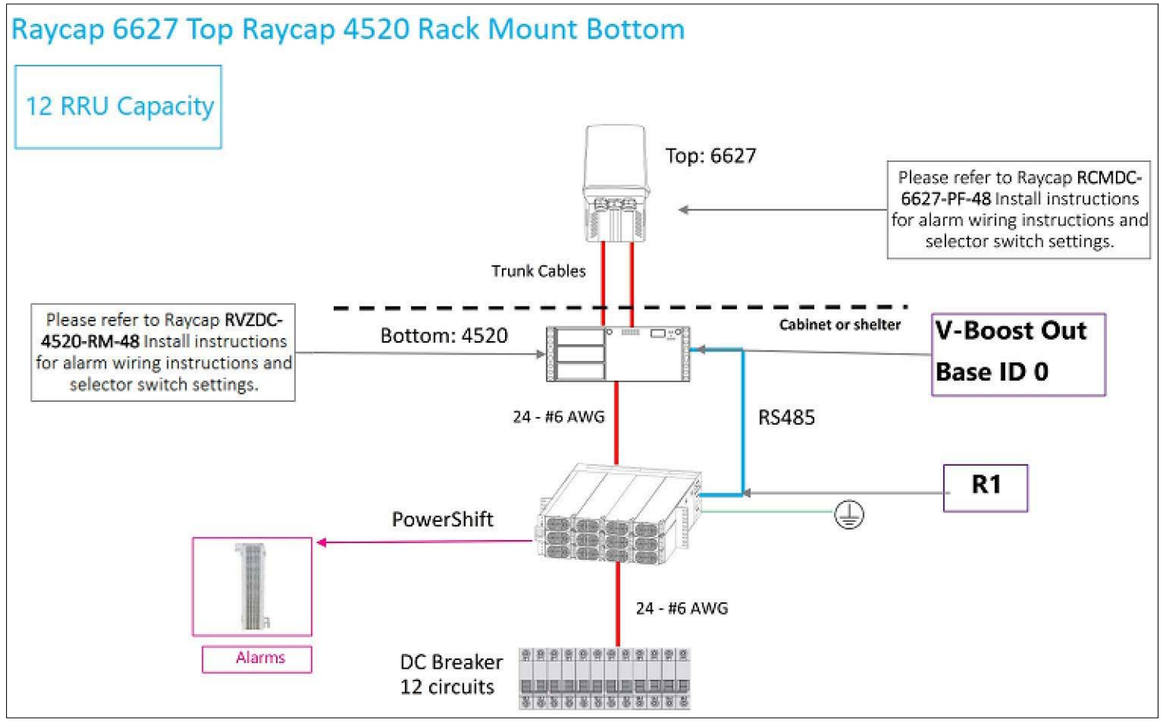
C4

EXISTING EQUIPMENT/EASEMENT | ACCESS EASEMENT | UTILITY EASEMENT | LEASE AREA | POWER | FIBER | HYBRID/COAX | RRHS | ANTENNAS | PENETRATIONS

Retrofit Site Raycap 3315 Top and Raycap 2260 Bottom



Raycap 6627 Top Raycap 4520 Rack Mount Bottom



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SHEET TITLE:

WIRING DIAGRAM

SAVE DATE:

4/16/2021 1:40 PM

SHEET NUMBER:

C5

EXISTING EQUIPMENT/EASEMENT | ACCESS EASEMENT | UTILITY EASEMENT | LEASE AREA | POWER | FIBER | HYBRID/COAX | RRHS | ANTENNAS | PENETRATIONS

EXISTING VERIZON ANTENNA SCHEDULE:

ATTACH LEVEL (CL)	AZIMUTHS (DEG., TN)	ANTENNA TYPE	ANTENNA QUANTITY	MOUNT TYPE	COAX (QUANTITY) SIZE (NOMINAL)	NOTES
85'-1"	330°	ANDREW SBNHH-1D65C 8' PANEL ANTENNA	2	PIPE MOUNT	(2) 6x12 HYBRID CABLES	TO BE REMOVED
85'-6"	90° 185°	AMPHENOL HEX456CW0000G 6' PANEL ANTENNA	4			TO BE REMOVED

NOTES:
1. ALL EXISTING AZIMUTHS REFERENCE TRUE NORTH.
2. ALL EXISTING AZIMUTHS REFERENCE DATA COLLECTED FROM A RECENT SITE VISIT.

NOTICE:

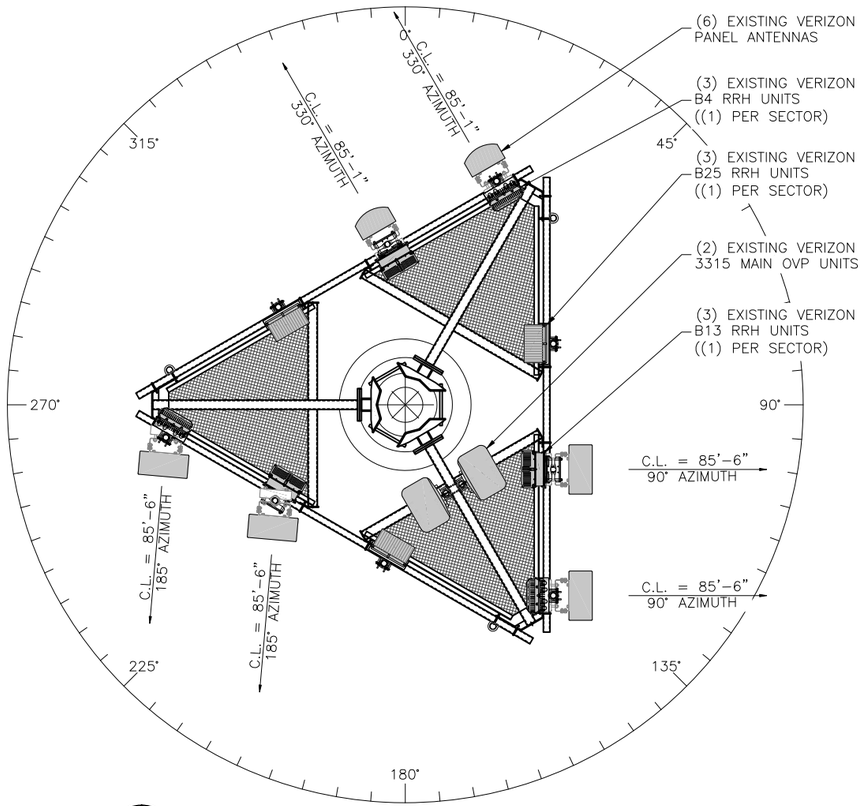
1. CONTRACTOR SHALL NOT SUBMIT BIDS OR PERFORM CONSTRUCTION WORK ON THIS PROJECT WITHOUT ACCESS TO THE CURRENT COMPLETE SET OF DRAWINGS LISTED IN THE TITLE-SHEET INDEX.

GROUNDING NOTE:

1. ALL NEW EQUIPMENT & COAX TO BE GROUNDED PER VERIZON GROUNDING SPECS

PROJECT NOTES:

1. ALL EXISTING ANTENNAS AND RRH UNITS ARE TO BE REMOVED.
2. SITE IS MOVING TO 2 SECTORS ONLY.



EXISTING ANTENNA SECTION AT 85'-1" & 85'-6"
SCALE: 1/4"=1'-0"
NORTH

NEW VERIZON ANTENNA SCHEDULE:

ATTACH LEVEL (CL)	AZIMUTHS (DEG., TN)	ANTENNA TYPE	ANTENNA QUANTITY	MOUNT TYPE	COAX (QUANTITY) SIZE (NOMINAL)	COAX CABLE LENGTH	MECHANICAL DOWN TILT
87'-0"	80° 230°	COMMSCOPE NHH-33B-R2B 6' PANEL ANTENNA	2 (NEW)	PIPE (EXISTING)	(1) 6x12 HYBRID CABLE (EXISTING) + (1)12x24 HYBRID CABLE (NEW)	SEE CHART ON C3	SEE RFDS
		C-BAND 3' PANEL ANTENNA	2 (NEW)				

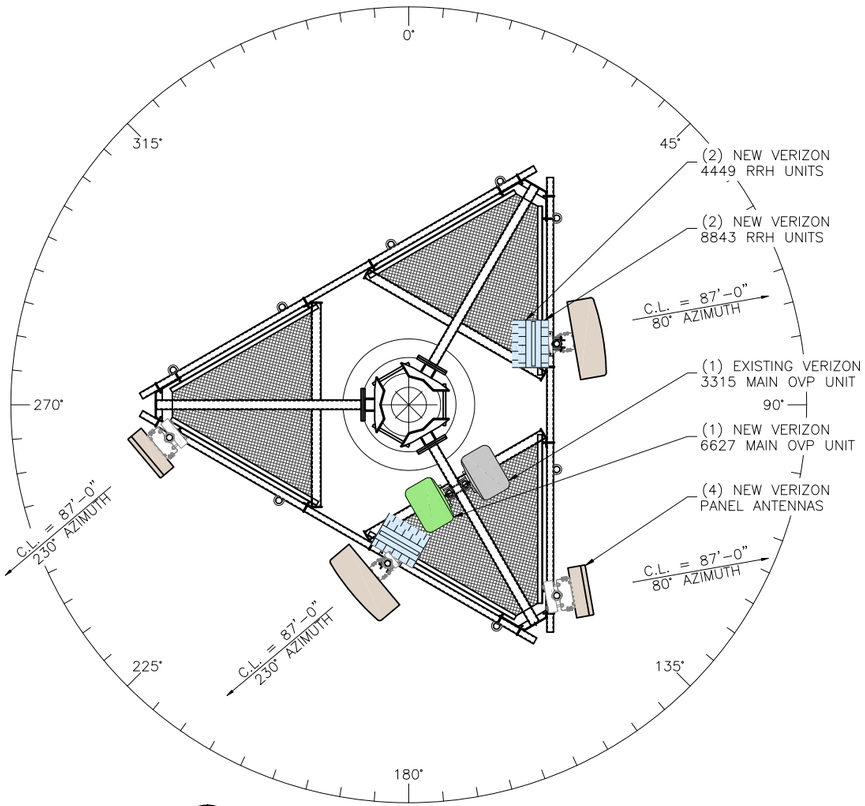
NOTES:
1. FOR EXACT ANTENNA INFORMATION REFER TO THE RF DESIGN.
2. ALL NEW COAX SHALL BE INSTALLED ON EXISTING FEEDLINE LADDER, ADJACENT TO EXISTING LESSEE COAX. INSIDE OF MONOPOLE (IF POSSIBLE).
3. ALL UNUSED COAX SHALL BE REMOVED.
4. CONTRACTOR TO INSTALL DIPLEXERS IN SHELTER AND ON TOWER AS REQUIRED BY RF DESIGN, (IF APPLICABLE)

GENERAL ANTENNA NOTES:

1. CONTRACTOR TO VERIFY MECHANICAL DOWNTILT WITH FINAL SMR/RF ENGINEER.
2. DUAL POLAR ANTENNAS REQUIRE TWO RUNS OF COAX PER ANTENNA.
3. CONTRACTOR TO VERIFY ALL ACTUAL LENGTHS IN FIELD PRIOR TO INSTALLATION AND NOTIFY THE FIELD ENGINEER FOR VERIFICATION OF SIZES OF CABLES.
4. CONTRACTOR TO PROVIDE AS BUILT FOR THE LENGTH OF CABLES UPON COMPLETION OF INSTALLATION.
5. CONTRACTOR TO PROVIDE FINAL CABLE LENGTHS AND RETURN LOSSES FOR ALL CABLES.
6. ALL AZIMUTHS REFERENCE TRUE NORTH. CONSULT REQUIRED QUADRANGLE MAP FOR NECESSARY MAGNETIC DECLINATION.

CONTRACTOR PMI REQUIREMENTS:

1. NO SPECIAL PMI REQUIREMENTS ON THE MOUNT ANALYSIS.



NEW ANTENNA SECTION AT 87'-0"
SCALE: 1/4"=1'-0"
NORTH

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SALT LAKE COUNTY

SHEET TITLE:
ANTENNA INFORMATION

SAVE DATE:
4/16/2021 1:40 PM

SHEET NUMBER:
RF1

EXISTING EQUIPMENT/EASEMENT | ACCESS EASEMENT | UTILITY EASEMENT | LEASE AREA | POWER | FIBER | HYBRID/COAX | RRHS | ANTENNAS | PENETRATIONS

Antenna Summary

Added

700	850	1900	AWS	AWS3	28 GHz	31 GHz	39 GHz	CBRS	LAA	L-Sub6	Make	Model	Centerline	Tip Height	Azimuth	RET	4xRx	Inst. Type	Quantity
LTE	LTE	LTE	LTE	LTE							COMMSCOPE	NHH-33B-R2B	87	90	80(02) 230(03)	true	true	PHYSICAL	2
											TBD	nL-Sub6 Antenna	87	89.1	80(0002) 230(0003)	false	false	PHYSICAL	2

Removed

700	850	1900	AWS	AWS3	28 GHz	31 GHz	39 GHz	CBRS	LAA	L-Sub6	Make	Model	Centerline	Tip Height	Azimuth	RET	4xRx	Inst. Type	Quantity
		LTE									AMPHENOL	HEX456CW0000GP 00EDT (221116)	87	90	191(03)	false	false	PHYSICAL	1
		LTE									AMPHENOL	HEX456CW0000GP 10EDT (235925)	87	90	91(02)	false	false	PHYSICAL	1
LTE											AMPHENOL	HEX456CW0000X7 10EDT (216649)	87	90	91(02) 190(03)	false	false	PHYSICAL	2
			LTE								AMPHENOL	HEX456CW0000XA 05EDT (216969)	87	90	190(03)	false	false	PHYSICAL	1
			LTE								AMPHENOL	HEX456CW0000XA 10EDT (216979)	87	90	91(02)	false	false	PHYSICAL	1
LTE		LTE	LTE								ANDREW	SBNHH-1D65C	87	91	330(01)	false	false	PHYSICAL	1

Retained

700	850	1900	AWS	AWS3	28 GHz	31 GHz	39 GHz	CBRS	LAA	L-Sub6	Make	Model	Centerline	Tip Height	Azimuth	RET	4xRx	Inst. Type	Quantity

No data available.

Added: 4 | Removed: 7 | Retained: 0

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RFDS ANTENNA SUMMARY

SAVE DATE:

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RF2

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THERE IS NO PLUMBING DIAGRAM IN THE CURRENT VERSION OF THE RFDS

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RFDS PLUMBING DIAGRAM

SAVE DATE:

4/16/2021 1:40 PM

SHEET NUMBER:

RF3