

Development Review Committee

1020 East Pioneer Road Draper, Utah 84020

STAFF REPORT

February 23, 2022

То:	Jennifer Jastremsky, Zoning Administrator	
	Approved	Date

From: Maryann Pickering, AICP, Planner III

(801) 576-6391 or maryann.pickering@draperutah.gov

Re: AT&T Downtown Draper UTL02188 - Permitted Use Permit Request

Application No.: USE-013-2022

Applicant: Cierra House of Smartlink Group on behalf of AT&T

Project Location: Approximately 11901 S. 700 East Current Zoning: CN (Neighborhood Commercial) Zone

Acreage: Approximately 1.01 acres (approximately 43,995 square feet)
Request: Request for approval of a permitted use permit in the CN 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 1.01 acres located on the east side of 700 East, at approximately 11901 S. 700 East (Exhibit B). The property is currently zoned CN. The parcel is owned by Orian W. Collinsworth and Marjory J. McKenna and is more commonly known as the business located on it, Pirate O's. 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 June 6, 2002. The application was Conditional Use Permit #02-027. The monopole has been in continuous use since that approval.



ANALYSIS

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

Neighborhood Commercial

LAND USE DESCRIPTIO	N
CHARACTERISTICS	 Small-scale commercial land uses that serve local residents in adjacent neighborhoods Minimal impact in predominantly residential areas Well-landscaped street frontages Limited traffic access points and pedestrian access from surrounding residential areas Don't overcrowd commercial lots; i.e., require adequate setback and landscape buffers Screened parking and adequate ingress and egress to parking areas Adequate drainage Low noise standards
LAND USE MIX	Small-scale commercialPlanned retailOffice
COMPATIBLE ZONING	 Neighborhood Commercial (CN) Institutional Care (IC) Commercial Services (CS)
LOCATION	Adjacent to neighborhoodAlong local roads

The property has been assigned the CN zoning classification (Exhibit D). According to DCMC Section 9-8-020 the purpose of the CN zone is to "The purpose of the CN zone is to provide areas where convenience buying outlets, having small trade areas, may be established to serve surrounding residential neighborhoods. This zone is intended to promote a combination of retail and service facilities which, in character and scale, meet day to day needs of nearby residents." The property is surrounded by CN zoning to the north, RA1 (Residential Agricultural, 40,000 square foot minimum) to the east across the Trax line, CC (Community Commercial) to the south and RM2 (Multiple Family Residential) to the west across 700 East.

<u>Requested Modification</u>. The applicant is proposing an upgrade to the existing equipment within the tower. The application requests that the additions be approved as an eligible facilities request under the Federal Spectrum Act and FCC regulations.



Electronic Code of Federal Regulations Title 47, Chapter I, Subchapter A, Part 1, Subpart U, §1.6100

- (b) Definitions.
 - (3) Eligible facilities request. Any request for modification of an existing tower or base station that does not substantially change the physical dimensions of such tower or base station, involving:
 - (i) Collocation of new transmission equipment;
 - (ii) Removal of transmission equipment; or
 - (iii) Replacement of transmission equipment.
 - (7) Substantial change. A modification substantially changes the physical dimensions of an eligible support structure if it meets any of the following criteria:
 - (i) For towers other than towers in the public rights-of-way, it increases the height of the tower by more than 10% or by the height of one additional antenna array with separation from the nearest existing antenna not to exceed twenty feet, whichever is greater; for other eligible support structures, it increases the height of the structure by more than 10% or more than ten feet, whichever is greater;
 - (A) Changes in height should be measured from the original support structure in cases where deployments are or will be separated horizontally, such as on buildings' rooftops; in other circumstances, changes in height should be measured from the dimensions of the tower or base station, inclusive of originally approved appurtenances and any modifications that were approved prior to the passage of the Spectrum Act.
 - (ii) For towers other than towers in the public rights-of-way, it involves adding an appurtenance to the body of the tower that would protrude from the edge of the tower more than twenty feet, or more than the width of the tower structure at the level of the appurtenance, whichever is greater; for other eligible support structures, it involves adding an appurtenance to the body of the structure that would protrude from the edge of the structure by more than six feet;
 - (iii) For any eligible support structure, it involves installation of more than the standard number of new equipment cabinets for the technology involved, but not to exceed four cabinets; or, for towers in the public rights-of-way and base stations, it involves installation of any new equipment cabinets on the ground if there are no pre-existing ground cabinets associated with the structure, or else involves installation of ground cabinets that are more than 10% larger in height or overall volume than any other ground cabinets associated with the structure;
 - (iv) It entails any excavation or deployment outside of the current site, except that, for towers other than towers in the public rights-of-way, it entails any excavation or deployment of transmission equipment



- outside of the current site by more than 30 feet in any direction. The site boundary from which the 30 feet is measured excludes any access or utility easements currently related to the site;
- (v) It would defeat the concealment elements of the eligible support structure; or
- (vi) It does not comply with conditions associated with the siting approval of the construction or modification of the eligible support structure or base station equipment, provided however that this limitation does not apply to any modification that is non-compliant only in a manner that would not exceed the thresholds identified in §1.40001(b)(7)(i) through (iv).
- (c) Review of applications. A State or local government may not deny and shall approve any eligible facilities request for modification of an eligible support structure that does not substantially change the physical dimensions of such structure.

The proposed additions to the tower and ground area for the co-location are not considered to be substantial under the FCC regulations and the request complies with listed standards to be considered as an eligible facilities request. The following is proposed:

- Removing six antennas and installing nine newer technology antennas.
- Removing nine RRHs (remote radio heads) and installing (9) newer technology RRHs.
- Removing six TMAs (tower mounted amplifiers) and installing one DC9 squid, two DC power trunks, and one fiber trunk.

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

<u>Criteria for Approval.</u> 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.

The proposed co-location and installation of proposed appurtenances conform generally to applicable requirements of the code under 9-5-070(E), and FCC issued regulations.

The criteria for review and approval of an Eligible facilities request are found in the Electronic Code of Federal Regulations Title 47, Chapter I, Subchapter A, Part 1, Subpart U, §1.6100, (c). This section depicts the standard of review for such requests as:

(c) Review of applications. A State or local government may not deny and shall approve any eligible facilities request for modification of an eligible support structure that does not substantially change the physical dimensions of such structure.

REVIEWS

<u>Planning Division Review</u>. 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.

<u>Engineering and Public Works Divisions Review</u>. 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.

<u>Fire Division Review</u>. 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.

<u>Noticing</u>. 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.

Draper City Public Works Department	Draper City Planning Division
Draper City Fire Department	Draper City Legal Counsel
 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

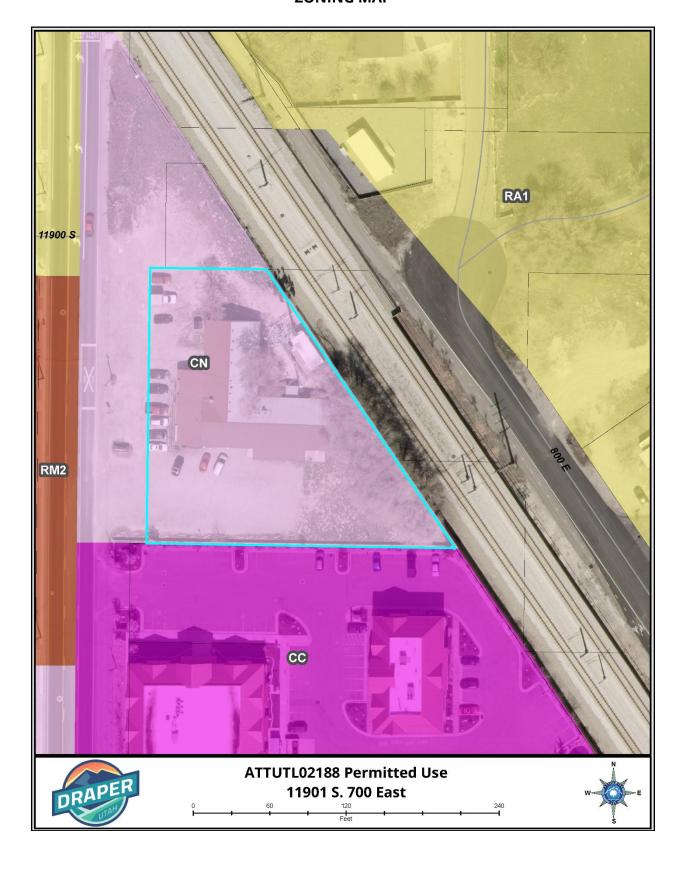


EXHIBIT E PROPOSED PLANS



UPGRADE:

LTE 5G NR/ANTENNA MOD 4TXRX



DRIVING DIRECTIONS

FROM: 776 N TERMINAL DR, SALT LAKE CITY, UT

TO: 11901 SOUTH 700 EAST, DRAPER, ut 84020

- GET ON 1-80 E FROM CROSSBAR AND TERMINAL DR
 SLIGHT RIGHT
 USE THE MIDDLE LANE TO TURN RIGHT TOWARD N 3700 W
 USE THE LEFT LANE TO TURN SLIGHTLY RIGHT ONTO N 3700 W
 CONTINUE ONTO CROSSBAR
 TAKE THE RAMP ONTO TERMINAL DR
 USE THE LEFT 2 LANES TO TAKE THE I-80 E RAMP TO CITY CENTER/OCDEN/PROVO
 KEEP LEFT AT THE Y JUNCTION, FOLLOW SIGNS FOR I-80 E AND MERGE WITH I-80 E
 TAKE I-15 S TO UT-175/W 11400 S. TAKE EXIT 292 FROM I-15 S
 MERGE WITH I-80 E
 USE ANY LANE TO TAKE EXIT 121 TO MERGE WITH I-15 S/I-80 E TOWARD CHEYENNE/L
 VECAS
- ANY LANE TO TAKE EXIT 121 TO MERGE WITH I-15 S/I-80 E TOWARD CHEYENNE/LAS
- VEUA3: KEEP LEFT TO CONTINUE ON I-15 S. KEEP LEFT TO STAY ON I-15 S. VEST THE RIGHT 2 LANES TO TAKE EXIT 292 FOR UT-175 E CONTINUE ON W 11400 S. DRIVE TO UT-71 S/S 700 E IN DRAPER

PROJECT INFORMATION

SITE NAME: DOWNTOWN DRAPER RFDS NAME: UTL02188 SITE TYPE: MONOPOLE

SALT LAKE

JURISDICTION: CITY OF DRAPER

ZONING:

COUNTY:

LATITUDE:

40.5340700°/ N 40° 32' 02.95" LONGITUDE: -111.8706100°/ W 111° 52' 13.82"

AMSL: ±4505'(ASML)

SITE ADDRESS: 11901 SOUTH 700 EAST DRAPER, UT 84020

APN-28291510160000 PROPERTY OWNER:

ORIAN W. COLLINSWORTH AND MARJORY J. MCKENNA

TOWER OWNER: CROWN CASTLE SITE ID:

UTI 02188

FA NUMBER:

10088379

RFDS NAME:

UTL02188

SITE NAME:

DOWNTOWN DRAPER

LTE NEXT CARRIER PACE:

MRUTH045566/MRUTH045631/MRUTH045634 /MRUTH045661/MRUTH046490

SITE ADDRESS:

11901 SOUTH 700 EAST DRAPER, UT 84020

PROJECT DESCRIPTION

THE PROJECT WILL BE COMPRISED OF

MODIFICATION TO AT&T ANTENNA ARRAY:

• INSTALL (3) (N) C-BAND ANTENNAS N IN TOP LOCATION (1 PER SECTOR)

INSTALL (3) (N) AEQK C-BAND ANTENNAS IN BOTTOM LOCATION (1 PER SECTOR)

REMOVE (3) (E) ANDREW SBNHH-1D65C ANTENNAS & REPLACE W/ (3) (N) NNH4-65C-R6-V3

REMOVE (3) (E) POWERWAVE 7750 ANTENNAS

REMOVE (3) (E) RRUS RRH2x40W_7L & REPLACE W/ (3) (N) AIRSCALE TRI RRH 4T4R

REMOVE (3) (E) RRUS RRH B25 RRH4X30-4R & REPLACE W/ (3) (N) AIRSCALE DUAL RRH 4T4R B25/66 320W AHFIB

REMOVE (3) (E) RRUS FRIB & REPLACE W/ (3) (N) AIRSCALE RRH 4T4R B5 160W AHCA REMOVE (6) (E) TMAS INSTALL (1) (N) RAYCAP DC9-48-60-24-EV

INSTALL (2) (N) DC POWER TRUNKS & (1) (N) FIBER TRUNK

MODIFICATION TO AT&T EQUIPMENT ENCLOSURE:

REMOVE (1) (E) TYCO GPS2424 +24VDC POWER PLANT
REMOVE (1) (E) BATTERY RACK

INSTALL (1) (N) 7100 POWER PLANT

INSTALL (1) (N) SEISMIC RATED BATTERY RACK

INSTALL (11) (N) -48V RECTIFIER IN NEW POWER PLANT
INSTALL (2) ABIA, (1) ASIA, (1) AMIA, (2) ASIK & (4) ABIL
AC POWER LOAD ESTIMATED @ 198A, EXISTING 200A ELECTRICAL SERVICE IS SUFFICENT

NO PERMANENT STANDBY GENERATOR, MINIMUM REQUIRED BATTERY BACKUP TIME IS 4.0 HOURS

REUSE (16) CELLS OF EXISTING MARATHON M12V180FT BATTERIES. INSTALL (4) NEW MARATHON BATTERIES FOR A TOTAL OF (20) CELLS CONFIGURED AS PLACE (12) BATTERIES IN POWER PLANT & (8) BATTERIES ON BATTERY RACK. FIVE BATTERY STRINGS WILL PROVIDE 4.39 HRS OF BATTERY RESERVE CAPACITY

ELECTRICAL PANEL SCHEDULE: SEE PANEL SCHEDULE

SITE HAS TWO EXISTING "BARD" 5-TON HVAC UNITS [SUFFICIENT]

PROJECT TEAM

APPLICANT COMPANY: ADDRESS:

AT&T MOBILITY 161 INVERNESS DR. W., 2ND FL. ENGLEWOOD, CO 80112

PROJECT MANAGER PHONE: COMPANY

425-919-7445 TRYLON 1825 W. WALNUT HILL LANE, SUITE 120 IRVING, TX 75038

CONSTRUCTION MANAGER PHONE: COMPANY **ADDRESS**

BRYAN SVENONIUS 858-531-5308 BLACK & VEATCH 8965 SOUTH EASTERN AVE, LAS VEGAS, NV 89123

TAMARA SHIVELEY

DANIFLLE FINLAY

SITE ACQUISITION: PHONE: COMPANY:

801-230-4877 SMARTLINK, LLC 1997 ANNAPOLIS EXCHANGE PARKWAY, SUITE 200 ANNAPOLIS, MD 21401

ARCHITECT/ENGINEER PHONE:

ATTN: KATYA SERAVALLE 1-855-669-5421 KATYA.SERAVALLE@TRYLON.COM EMAIL: COMPANY: TRYLON TSF 1825 W. WALNUT HILL LANE, SUITE 120 **ADDRESS**

ALL WORK & MATERIALS SHALL BE PERFORMED & 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:

1. 2018 INTERNATIONAL BUILDING CODE WITH APPENDIX "J" 2. 2018 INTERNATIONAL MECHANICAL CODE

3. 2015 INTERNATIONAL RESIDENTIAL CODE WITH APPENDIX "E"
4. 2017 NATIONAL ELECTRICAL CODE

THIS FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. THIS FACILITY IS NON-OCCUPIABLE AND ACCESSIBLE ONLY TO SERVICE PERSONNEL.

SHEET INDEX

SHEET #	DESCRIPTION	REVISION #
T-1	TITLE SHEET	0
GN-1	GENERAL NOTES	0
A-1	SITE PLAN	0
A-2	ENLARGED SITE PLAN	0
A-3	EXISTING & PROPOSED EQUIPMENT SHELTER PLANS	0
A-4	EXISTING & PROPOSED ANTENNA PLANS	0
A-5	EXISTING & PROPOSED TOWER ELEVATIONS	0
A-6	ANTENNA AND EQUIPMENT SCHEDULE	0
A-7	EQUIPMENT DETAILS	0
A-8	EQUIPMENT DETAILS	0
A-9 - A-12	EQUIPMENT DETAILS	0
E-1	GROUNDING PLAN	0
E-2 & E-3	AC PANEL SCHEDULE & SINGLE LINE DIAGRAM	0
E-4	GROUNDING DETAILS	0







1825 W. WALNUT HILL LANE, SUITE 120 IRVING, TEXAS 75038 1-855-669-5421



DRAWING SCALES ARE INTENDED FOR 11"x17" SIZE PRINTED MEDIA ONLY.

SUBMITTALS REV DATE DESCRIPTION BY A 09/23/21 90% CD DHR 10/21/21 DHR 90% CD 10/25/21 90% CD SUA 0 11/01/21 100% CD SUA

SITE INFORMATION

SITE ID: UTL02188

RFDS NAME: UTL02188

SITE NAME: DOWNTOWN DRAPER

SITE ADDRESS: 11901 SOUTH 700 EAST DRAPER, UT 84020

SHEET DESCRIPTION

TITLE SHEET

SHEET No.

T-1

1. GENERAL REQUIREMENTS

A PURPOSE AND INTENT

I.THE DRAWING AND SPECIFICATION ARE INTENDED TO BE FULLY EXPLANATORY AND SUPPLEMENTARY, HOWEVER, SHOULD ANYTHING BE SHOWN, INDICATED, OR SPECIFIED ON ONE AND NOT THE OTHER, IT BE DONE THE SAME AS IF DISCREPANCIES BETWEEN REQUIREMENTS SHOWN IN BOTH, THE MORE STRINGENT REQUIREMENTS SHALL APPLY. THE INTENTION OF THE DOCUMENT IS TO INCLUDE ALL LABOR

AND MATERIALS REASONABLY NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK AS STIPULATED IN THE CONTRACT.

A. CONFLICTS

1. VERIFY ALL MEASUREMENTS AT THE SITE BEFORE ORDERING MATERIAL OR DOING ANY WORK, NO EXTRA CHARGE OR COMPENSATION WILL BE ALLOWED DUE TO DIFFERENCES BETWEEN ACTUAL DIMENSIONS OF DIMENSIONS SHOWN ON PLANS SUBMIT NOTICE OF ANY DISCREPANCY IN DIMENSIONS OR OTHERWISE TO AT&T FOR RESOLUTION BEFORE PROCEEDING WITH THE WORK

2. NO PLEA OF IGNORANCE OF CONDITIONS THAT EXIST, OR OF DIFFICULTIES OR CONDITIONS THAT MAY BE ENCOUNTERED, OR OF ANY OTHER RELEVANT MATTER CONCERNING THE EXECUTION OF THE WORK WILL BE ACCEPTED AS AN EXCUSE FOR ANY FAILURE OR OMISSION ON THE PART OF THE CONTRACTOR TO FULFILL EVERY DETAIL OF ALL THE REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS GOVERNING THE

A. CLEANING

1. KEEP THE SITE FREE FROM ACCUMULATION OF WASTE AND RUBBISH CAUSED BY EMPLOYEES AT THE COMPLETION OF THE WORK, REMOVE ALL WASTE AND NON-CONSTRUCTION MATERIAL INCLUDING ALL CONTRACT TOOLS, SCAFFOLDING, AND SURPLUS MATERIAL AND LEAVE SITE CLEAN AND READY FOR USE.

CODES

1.CONTRACTOR SHALL BE RESPONSIBLE FOR FOLLOWING ALL LAWS. REGULATIONS, AND RULES PROMULGATED BY FEDERAL STATE AND LOCAL AUTHORITIES WITH JURISDICTION OVER THE SALTIER. THIS RESPONSIBILITY IS IN EFFECT REGARDLESS OF WEATHER THE LAW, ORDINANCE, REGULATION OR RULE IS MENTIONED IN THESE SPECIFICATIONS

A. LICENSING

1. CONTRACTOR SHALL HAVE AND MAINTAIN A VALID CONTRACTOR'S LICENSE FOR THE LOCATION IN WHICH THE WORK IS TO BE PERFORMED. FOR JURISDICTIONS THAT LICENSE INDIVIDUAL TRADES, THE TRADESMAN OR SUBCONTRACTOR PERFORMING THOSE SHALL BE LICENSED. RESEARCHED. AND COMPLY WITH THE LICENSING LAWS, PAY LICENSE FEES, AND SELECT AND INFORM SUBCONTRACTORS REGARDING THESE LAWS

1. FOLLOW ALL APPLICABLE RULES AND REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATIONS AND STATE LAWS
BASED IN THE FEDERAL OCCUPATION SAFETY AND HEALTH ACT. THESE REGULATIONS INCLUDE, BUT ARE NOT LIMITED TO, REGULATIONS DEALING WITH TOWER CONSTRUCTION AND SAFETY, EXCAVATION AND TRENCHING, AND WORK IN CONFINED SPACES. ENSURE THAT EMPLOYEES AND SUBCONTRACTORS WEAR HARD HATS AT ALL TIMES DURING CONSTRUCTION.

A. PHOTOS

1. PROVIDE PHOTOGRAPHIC EVIDENCE OF ALL FOUNDATION INSTALLATIONS, GROUNDING, AND TRENCHING AFTER PLACEMENT OF UTILITIES PRIOR TO BACKELL

A. BUILDING PERMITS

1. CONTRACTOR WILL SUBMIT CONSTRUCTION DOCUMENTS TO THE JURISDICTIONAL AUTHORITY FOR PLAN CHECK AND REVIEW. CONTRACTOR WILL SUBMIT LICENSING AND WORKMAN'S COMPENSATION INFORMATION TO THE JURISDICTION AS REQUIRED TO OBTAIN THE BUILDING PERMIT. CONTRACTOR SHALL COORDINATE AND SCHEDULE REQUIRED INSPECTIONS AND POST REQUIRED PERMITS AT THE JOB SITE COMPLY WITH SPECIFIC PROJECT RELATED REQUESTS AND SUGGESTIONS MADE BY BUILDING INSPECTOR, AND INFORM CONSTRUCTION MANAGER OF ANY SUCH WORK THAT MAY BE BEYOND THE SCOPE OF THE CONTRACT OR DEVIATE FROM THE CONSTRUCTION DOCUMENT. AT&T WILL REIMBURSE THE CONTRACTOR FEES FOR PLAN REVIEW, BUILDING PERMIT, CONNECTIONS, AND INSPECTIONS. (INCLUDED IN THE BASE PROPOSAL)

A. ZONING REGULATIONS AND CONDITIONAL USE PERMITS 1. CONTRACTOR WILL SUBMIT ALL ZONING AND CONDITIONAL USE

PERMITS. SOME USE PERMITS MAY HAVE SPECIFIC REQUIREMENTS FOR THE SITE RELATED TO CONSTRUCTION, SUCH AS NOISE REGULATIONS, HOURS OF WORK, ACCESS LIMITATIONS, ETC. THE CONSTRUCTION MANAGER WILL INFORM THE CONTRACTOR OF THESE REQUIREMENTS AT THE PRE-BID MEETING OR AS SHOWN IN THE CONSTRUCTION DOCUMENTS.

A. FAA PERMIT AND TOWER LIGHTING

1. REFER TO CONSTRUCTION DOCUMENTS AND CONSTRUCTION MANAGER FOR FAA AND STATE LIGHTING REQUIREMENTS. CONTRACTOR SHALL PROVIDE TEMPORARY FM APPROVED LIGHTING UNTIL PERMANENT LIGHTING IS OPERATIONAL.

A. TOWER SECURITY

1. IF REQUIRED, TOWER MUST BE FENCED, TEMPORARILY OR PERMANENTLY WITHIN 24 HOURS OF ERECTION. DO NOT ALLOW THE GATE ACCESSING THE TOWER AREA TO REMAIN OPEN OR UNATTENDED ANY TIME FOR ANY REASON. KEEP THE GATE CLOSED AND LOCKED WHEN NOT IN

. THE CONTRACTOR IS COMPLETELY RESPONSIBLE FOR CONTAINMENT OF SEDIMENT AND CONTROL OF EROSION AT THE SITE, ANY DAMAGE TO ADJACENT OR DOWNSTREAM PROPERTIES WILL BE CORRECTED BY THE CONTRACTOR AT NO EXPENSE TO AT&T.
2. THE CONTRACTOR IS TO MAINTAIN ADEQUATE DRAINAGE AT ALL

TIMES. DO NOT ALLOW WATER TO STAND OR POND. ANY DAMAGE TO STRUCTURES OR WORK ON THE SITE CAUSED BY INADEQUATE MAINTENANCE OF DRAINAGE PROVISIONS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AND ANY COST ASSOCIATED WITH REPAIRS FOR SUCH DAMAGE WILL BE AT THE CONTRACTOR'S EXPENSE

3. ALL WASTE MATERIAL SHALL BE PROPERLY DISPOSED OF OFF-SITE OR AS DIRECTED BY CONSTRUCTION MANAGER AND IN ACCORDANCE WITH JURISDICTIONAL AUTHORITIES.

M. LIVESTOCK PROTECTION

PROTECT AND SECURE LIVESTOCK. MAINTAIN AND SECURE EXISTING PERIMETER FENCE AND/OR GATE ENCLOSURES.

2. SITE PREPARATION

A. SCOPE OF WORK INCLUDES

 PROTECTION OF EXISTING TREES, VEGETATION AND LANDSCAPING
MATERIALS WHICH MIGHT BE DAMAGED BY CONSTRUCTION ACTIVITIES. 2. TRIMMING OF EXISTING TREES AND VEGETATION AS REQUIRED FOR PROTECTION DURING CONSTRUCTION ACTIVITIES.

CLEANING AND GRUBBING OF STUMPS, VEGETATION, DEBRIS, RUBBISH, DESIGNATED TREES AND SITE IMPROVEMENTS 4. TOPSOIL STRIPPING AND STOCKPILING.

5. TEMPORARY EROSION CONTROL, SILTATION CONTROL, AND DUST CONTROL CONFORMING TO LOCAL REQUIREMENTS AS APPLICABLE. 6. TEMPORARY PROTECTION OF ADJACENT PROPERTY, STRUCTURES, BENCHMARKS, AND MONUMENTS.

PROTECTION AND TEMPORARY RELOCATION, STORAGE AND RE-INSTALLATION OF EXISTING FENCE AND OTHER SITE IMPROVEMENTS

8. REMOVAL AND LEGAL DISPOSAL OF CLEARED MATERIALS.

B. PRODUCTS AND MATERIALS (AS APPROVED BY CONSTRUCTION MANAGER OR AS NOTED IN CONSTRUCTION DOCUMENTS) MATERIALS USED FOR TREE PROTECTION, FROSION CONTROL.

3. EARTHWORK

A. SCOPE OF WORK INCLUDES

SILTATION CONTROL, AND DUST CONTROL.

EXCAVATION, TRENCHING, FILLING, COMPACTION, AND GRADING FOR STRUCTURES. SITE IMPROVEMENTS AND UTILITIES 2. MATERIALS FOR SUB-BASE, DRAINAGE, BACKFILL AND GRAVEL FOR SLABS, PAVEMENT AND IMPROVEMENTS.

3. ROCK EXCAVATION WITHOUT BLASTING. 4. SUPPLY OF ADDITIONAL MATERIALS FOR OFFSITE AS REQUIRED. 5. REMOVAL AND LEGAL DISPOSAL OF EXCAVATED MATERIAL AS

B. QUALITY ASSURANCE

. COMPACTION

A. UNDER STRUCTURES, BUILDING SLABS, PAVEMENTS AND WALKWAYS WILL OBTAIN A 95% COMPACTION AT A MINIMUM DRY DENSITY AS DETERMINED BY ASTM 0-1557 OR WITH PLUS OR MINUS 3% OF THE

2. GRADING TOLFRANCES OUTSIDE BUILDING LINES. A. LAWNS, UNPAVED AREAS AND WALKS PLUS OR MINUS 1

B. UNDER PAVEMENTS PLUS OR MINUS 1/2 INCH.

3. GRADING TOLERANCES FOR FILL UNDER CONCRETE APPLICATIONS

A. PLUS OR MINUS $\frac{1}{2}$ INCH MEASURED WITH 10 FOOT STRAIGHT

C. PRODUCTS AND MATERIALS (AS APPROVED BY CONSTRUCTION MANAGER OR AS NOTED IN CONSTRUCTION DOCUMENTS) SUB-BASE MATERIAL: GRADED MIXTURE OF NATURAL OR CRUSHED

GRAVEL CRUSHED STONE OR SLAG, AND NATURAL SAND. 2. WASHED MATERIAL, EVENLY GRADED MIXTURE OF CRUSHED STONE OR GRAVEL WITH 95% PASSING A 1-1/2 INCH SIEVE.

3. GRADING MATERIAL WILL CONSIST OF SATISFACTORY NATIVE OR

MPORTED SOIL MATERIALS FREE OF CLAY, ROCK OR GRAVEL NOT LARGER THAN 2 INCHES IN ANY DIMENSION, DEBRIS, WASTE, FROZEN MATERIALS AND OTHER UNSUITABLE MATERIALS WILL NOT BE ALLOWED FOR USE. IMPORTED MATERIALS SHALL HAVE A CLAY CONTENT OF NO MORE THAN

4. GRAVEL MATERIAL: EVENLY GRADED MIXTURE OF CRUSHED STONE OR GRAVEL WITH 95% PASSING A 1-1/2 INCH SIEVE. 5. GEOTEXTILE FABRIC: AS PER CONSTRUCTION DOCUMENTS.

D. CLEARING AND GRUBBING

1. REMOVE ALL VEGETATION AND MATERIALS AS REQUIRED. REMOVE STUMPS COMPLETELY UNDER FOUNDATIONS AND ROADWAYS. DISPOSE OF CLEARING AND GRUBBING OFF-SITE OR IN AN ON-SITE LOCATION APPROVED BY CONSTRUCTION MANAGER

F STRIPPING

STRIP NOT LESS 3 INCHES OF SOD AND TOPSOIL FROM AREAS THAT WILL UNDERLAY GRAVEL, PAVEMENT, NEW STRUCTURES OR EMBANKMENTS. STOCKPILE STRIPPING ON-SITE FOR RE-USE AND FINAL LANDSCAPING.

G. EMBANKMENT

CONSTRUCT EMBANKMENT TO THE LINES AND GRADES SHOWN ON THE DRAWING

2. CONSTRUCT EMBANKMENT FROM ON-SITE EXCAVATION MATERIAL WHEN SUITABLE. USE IMPORTED BACKFILL ONLY AFTER AVAILABLE ON-SITE EXCAVATION MATERIAL HAS BEEN USED.

3. CONSTRUCT IN LIFTS OF NOT MORE THAN 12 INCHES IN LOOSE DEPTH. THE FULL WIDTH OF THE CROSS SECTION SHALL BE BROUGHT

4. MATERIAL SHALL BE PLACED IN LAYERS AND SHALL BE NEAR OPTIMUM MOISTURE CONTENT BEFORE ROLLING TO OBTAIN THE PRESCRIBED COMPACTION. WETTING OR DRYING OF THE MATERIAL AND MANIPULATION TO SECURE A UNIFORM MOISTURE CONTENT THROUGHOUT THE LAYERS MAY BE REQUIRED. SUCH OPERATIONS SHALL BE INCLUDED IN THE APPROPRIATE BID ITEM. SHOULD THE MATERIAL BE TOO WET TO PERMIT PROPER COMPACTION, IT IS THE CONTRACTOR'S RESPONSIBILITY TO UTILIZE MATERIAL WITH AN ACCEPTABLE MOISTURE CONTENT. 5. DO NOT PLACE FROZEN MATERIAL IN THE EMBANKMENT AND DO NOT

PLACE EMBANKMENT MATERIAL UPON FROZEN MATERIAL. 6. CONTRACTOR SHALL BE RESPONSIBLE FOR THE STABILITY OF EMBANKMENTS AND THE REPLACEMENT OF ANY PORTION WHICH HAS BECOME DISPLACED DUE TO CONTRACTOR'S OPERATIONS.

7. START LAYERS IN THE DEEPEST PORTION OF THE FILL AND AS PLACEMENT PROGRESSES, CONSTRUCT LAYERS APPROXIMATELY PARALLEL TO THE FINISH GRADE LINE.

8. ROUTE EQUIPMENT BOTH LOADED AND EMPTY, OVER THE FULL WIDTH

THE EMBANKMENT TO ENSURE UNIFORMITY OF MATERIAL PLACEMENT. 9. COMPACT EMBANKMENT UNDERLYING NEW GRAVEL PAVING. FLOOR SLABS AND STRUCTURES TO BE 95% COMPACTION AT A MINIMUM DRY DENSITY AS DETERMINED BY ASTM 0-1557 OR WITHIN PLUS OR MINUS 3% OF OPTIMUM MOISTURE CONTENT. COMPACT NON-STRUCTURAL AREA EMBANKMENTS TO A MINIMUM OF 90% OF ASTM 0-1557.

H. SITE GRADING

1. USING ON-SITE EXCAVATION MATERIAL, SHAPE, TRIM, FINISH AND COMPACT SURFACE AREAS TO CONFORM TO THE LINES. GRADES AND CROSS SECTIONS SHOWN ON THE DRAWING OR AS DESIGNATED BY THE CONSTRUCTION MANAGER.

GRADE SURFACES TO DRAIN AND ELIMINATE ANY PONDING OR EROSION.

ELIMINATE WHEEL RUTS BY REGRADING.

4. COMPACT AREAS OF UNDERLYING NEW GRAVEL, PAVING, FLOOR SLABS AND STRUCTURES TO BE AT 95% COMPACTION AT A MAXIMUM DRY DENSITY AS DETERMINED BY THE ASTM 0-1557 OR WITHIN PLUS OR MINUS 3% OF OPTIMUM MOISTURE CONTENT. 5. CONSTRUCT FINISH SURFACE OF SITE GRADING AREAS WITHIN 1 INCH

FROM SPECIFIED GRADE.

SUBGRADE PREPARATION

SHAPE TOP OF SUBGRADE TO THE LINES AND GRADES SHOWN ON THE DRAWINGS

MAINTAIN TOP OF SUBGRADE IN A FREE-DRAINING CONDITION. 3. DO NOT STOCK PILE MATERIAL ON TOP OF SUBGRADE UNLESS AUTHORIZED BY CONSTRUCTION MANAGER.

COMPACT THE TOP 12 INCHES OF SUBGRADE TO A 95% COMPACTION AT A MAXIMUM DRY DENSITY AS DETERMINED BY ASTM 0-1557 OR WITHIN PLUS OR MINUS 3% OF THE OPTIMUM MOISTURE CONTENT 5. CONSTRUCT TOP OF SUBGRADE WITHIN 1 INCH OF ESTABLISHED GRADE AND CROSS SECTION.

J. GEOTEXTILE FABRIC

LAY GEOTEXTILE FABRIC OVER COMPACTED SUBGRADE IN THE COMPOUND AREA AND UNDER LENGTH OF ROAD (WHEN REQUIRED). LAP ALL JOINTS TO A MINIMUM OF 36 INCHES.

1. CONSTRUCT GRAVEL SURFACING AREAS USING CRUSHED AGGREGATE BASE AND FINISH COURSES AS SPECIFIED BY CONSTRUCTION MANAGER. SPREAD GRAVEL AND RAKE TO OBTAIN A UNIFORM SURFACE AREA.

L. LANDSCAPING

FURNISH, INSTALL AND MAINTAIN LANDSCAPE WORK AS SHOWN AND/OR REQUIRED WITHIN THE CONSTRUCTION DOCUMENTS OR AS SPECIFIED IN THE CONSTRUCTION SPECIFICATIONS.

M. CONCRETE FORM WORK

FORMS: SMOOTH AND FREE OF SURFACE IRREGULARITIES. UTILIZE FORM RELEASE AGENTS

2. CHAMFER EXPOSED EDGES OF ALL TOWER FOUNDATION SHALL RECEIVE A 3 INCH BY 3 INCH 45 DEGREE CHAMFER. OTHER EXPOSED RECEIVE A TOOLED RADIUS FINISH 3. UPON COMPLETION, REMOVE ALL FORMS INCLUDING THOSE

4. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.

4. GENERAL NOTES

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO EXAMINE ALL PLAN SHEETS AND SPECIFICATIONS AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS TO ENSURE THAT WORK PROGRESSION IS NOT INTERRUPTED.

2. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING A NEAT AND ORDERLY SITE, YARD AND GROUNDS. CONTRACTOR SHALL REMOVE AND DISPOSE OFF SITE ALL RUBBISH, WASTE MATERIAL, LITTER AND ALL FOREIGN SUBSTANCES. REMOVE PETROCHEMICAL SPILLS, STAINS AND OTHER FOREIGN DEPOSITS. RAKE GROUND TO A SMOOTH EVEN-TEXTURED SURFACE.

3. THE PLANS SHOW SOME KNOWN SUBSURFACE STRUCTURE ABOVE GROUND STRUCTURES AND/OR UTILITIES BELIEVED TO EXIST IN THE WORKING AREA, EXACT LOCATION OF WHICH MAY VARY FROM THE LOCATION INDICATED. IN PARTICULAR THE CONTRACTOR IS WARNED THAT THE EXACT OR EVEN APPROXIMATE LOCATION OF SUCH PIPELINES, SUBSURFACE STRUCTURES AND/OR UTILITIES IN THE AREA MAY BE SHOWN OR MAY NOT BE SHOWN AND IT SHALL BE HIS RESPONSIBILITY TO PROCEED WITH GREAT CARE IN 48 HOURS BEFORE YOU DIG, DRILL OR BLAST CALL LOCAL UTILITIES LOCATOR COMPANY.

4. THE OWNER OR OWNER'S REPRESENTATIVE SHALL BE NOTIFIED IN WRITING OF ANY CONDITIONS THAT VARY FROM THOSE SHOWN ON THE PLANS. THE CONTRACTOR'S WORK SHALL NOT VARY FROM THE PLANS WITHOUT THE EXPRESSED APPROVAL OF THE OWNER OR THE OWNER'S REPRESENTATIVE.

5. THE CONTRACTOR IS INSTRUCTED TO COOPERATE WITH ANY AND ALL OTHER CONTRACTORS PERFORMING WORK ON THE SITE DURING THE PERFORMANCE OF THIS CONTRACT.

6. THE CONTRACTOR SHALL RESTORE ALL DAMAGED, PUBLIC OR

PRIVATE PROPERTY TO AT LEAST AS GOOD OF CONDITION AS BEFORE DISTURBED AS DETERMINED BY THE OWNER OR OWNER'S REPRESENTATIVE. 7. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIRED PERMITS.
8. THE CONTRACTOR SHALL PROTECT EXISTING PROPERTY LINE

MONUMENTATION. ANY MONUMENTATION DISTURBED OR DESTROYED. AS JUDGED BY THE OWNER OR OWNER'S REPRESENTATIVE. SHALL BE REPLACED. 9 ALL TRENCH EXCAVATION AND ANY REQUIRED SHEETING AND

SHORING SHALL BE DONE IN ACCORDANCE WITH OSHA REGULATIONS FOR CONSTRUCTION. 10.CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING AND THE MAINTENANCE OF SURFACE DRAINAGE DURING THE COURSE OF

11ALL UTILITY WORK INVOLVING CONNECTIONS TO EXISTING SYSTEMS SHALL BE COORDINATED WITH THE OWNER OR OWNER'S REPRESENTATIVE BEFORE EACH AND EVERY CONNECTION TO EXISTING SYSTEMS IS MADE

2MAINTAIN FLOW FOR ALL EXISTING UTILITIES

13ALL SITE FILL SHALL MEET SELECTED FILL STANDARDS AS DEFINED BY THE OWNER OF OWNER'S REPRESENTATIVE ON THE DRAWINGS GEOTECHNICAL REPORT RECOMMENDATIONS.

14CONTRACTOR TO GRADE ALL AREAS OF THE SITE TO PROVIDE POSITIVE DRAINAGE AWAY FROM THE BUILDING OR EQUIPMENT PAD AND THE TOWER.

15IF NECESSARY, THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING

AND REGRADING ROADWAY AND ANY DISTURBED AREAS FOLLOWING INSTALLATION OF UTILITIES. 16NO COMMERCIAL MESSAGES TO BE DISPLAYED ON TOWER 17WATER AND SEWER SERVICES ARE NOT REQUIRED FOR THE

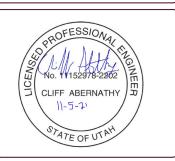
DEVEL OPMENT 18THE CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIAL UNLESS OTHERWISE NOTED.

19ELECTRICAL DRAWINGS HAVE BEEN REVIEWED AND SEALED FOR STRUCTURAL PURPOSES ONLY.









DRAWING SCALES ARE INTENDED FOR 11"x17" SIZE PRINTED MEDIA ONLY.

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I	SUBMITTALS							
I	REV	DATE	DESCRIPTION	BY				
l	A	09/23/21	90% CD	DHR				
I	В	10/21/21	90% CD	DHR				
I	С	10/25/21	90% CD	SUA				
I	0	11/01/21	100% CD	SUA				
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SITE INFORMATION

SITE ID: UTL02188

RFDS NAME: UTL02188

SITE NAME: DOWNTOWN DRAPER

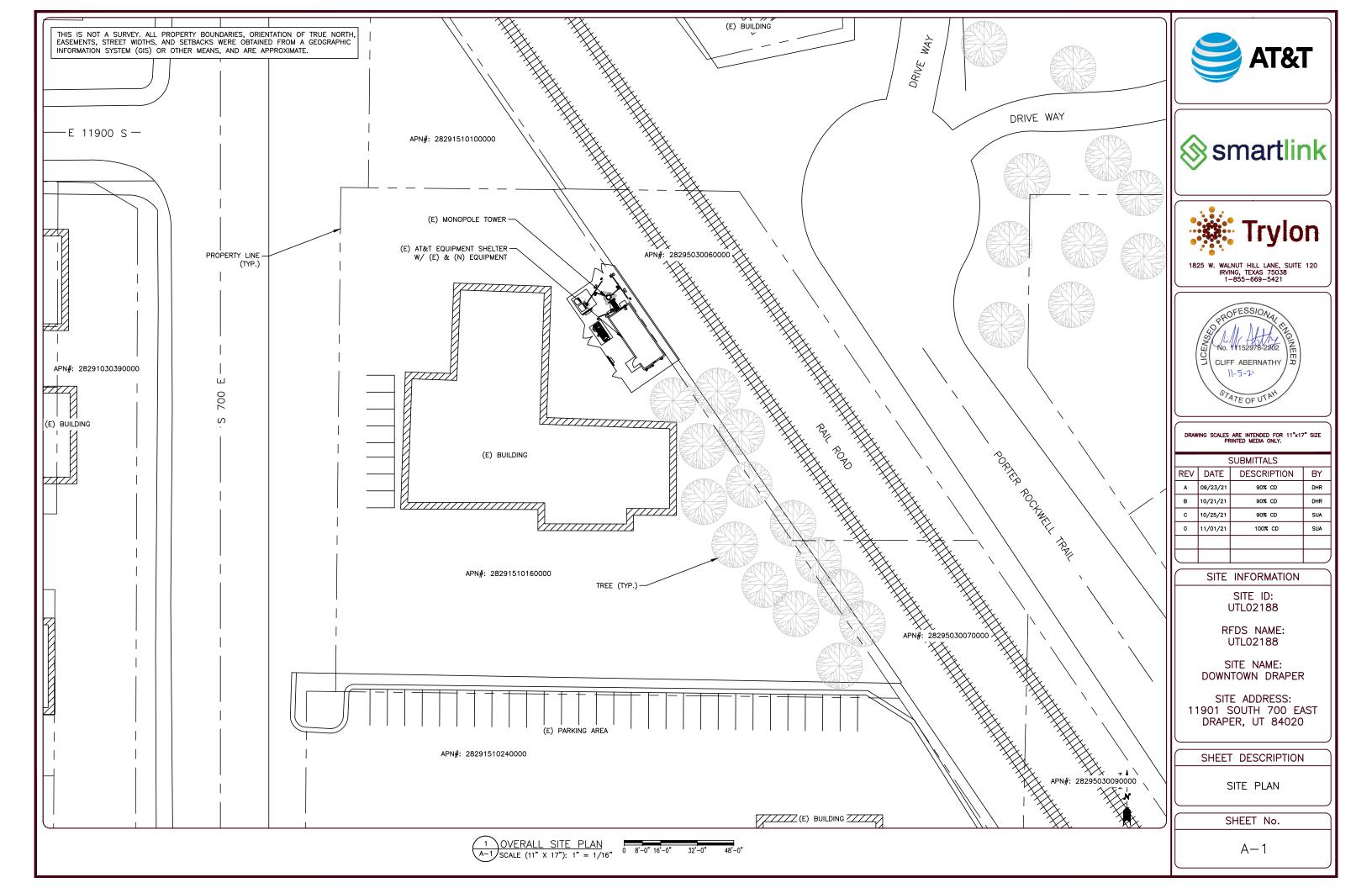
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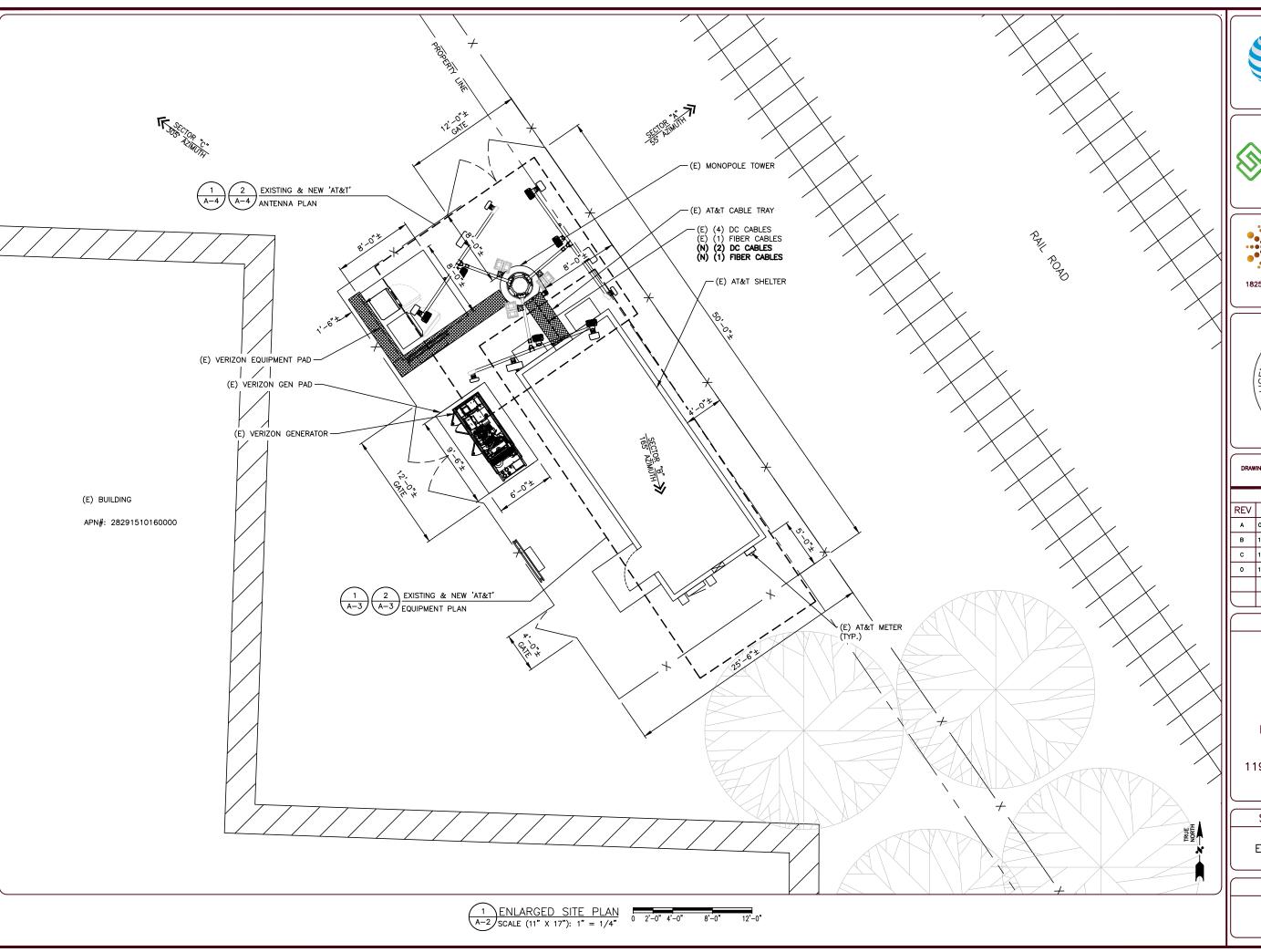
SHEET DESCRIPTION

GENERAL NOTES

SHEET No.

GN-1











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П	0	11/01/21	100% CD	SUA					
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RFDS NAME: UTL02188

SITE NAME: DOWNTOWN DRAPER

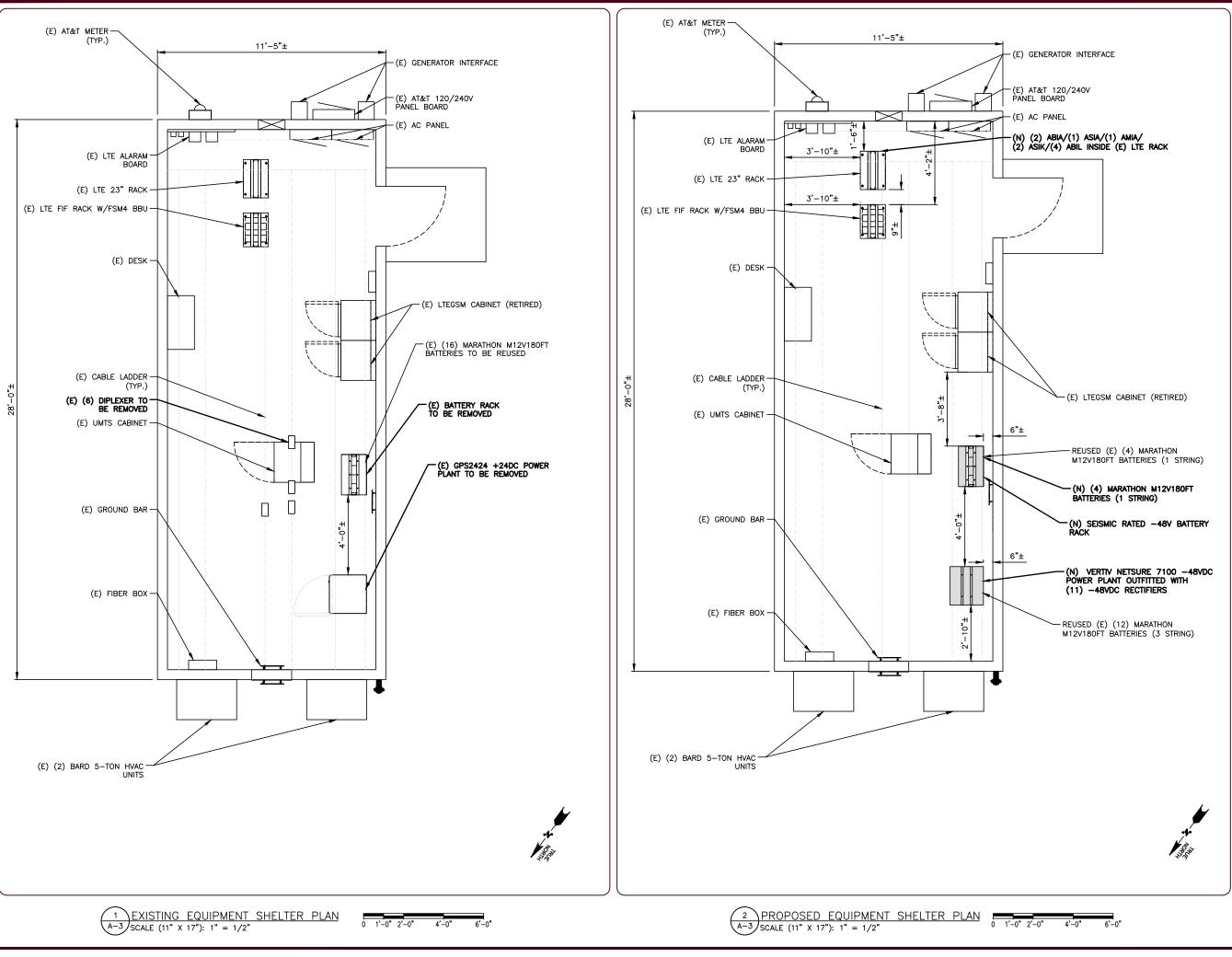
SITE ADDRESS: 11901 SOUTH 700 EAST DRAPER, UT 84020

SHEET DESCRIPTION

ENLARGED SITE PLAN

SHEET No.

A-2











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RFDS NAME: UTL02188

SITE NAME: DOWNTOWN DRAPER

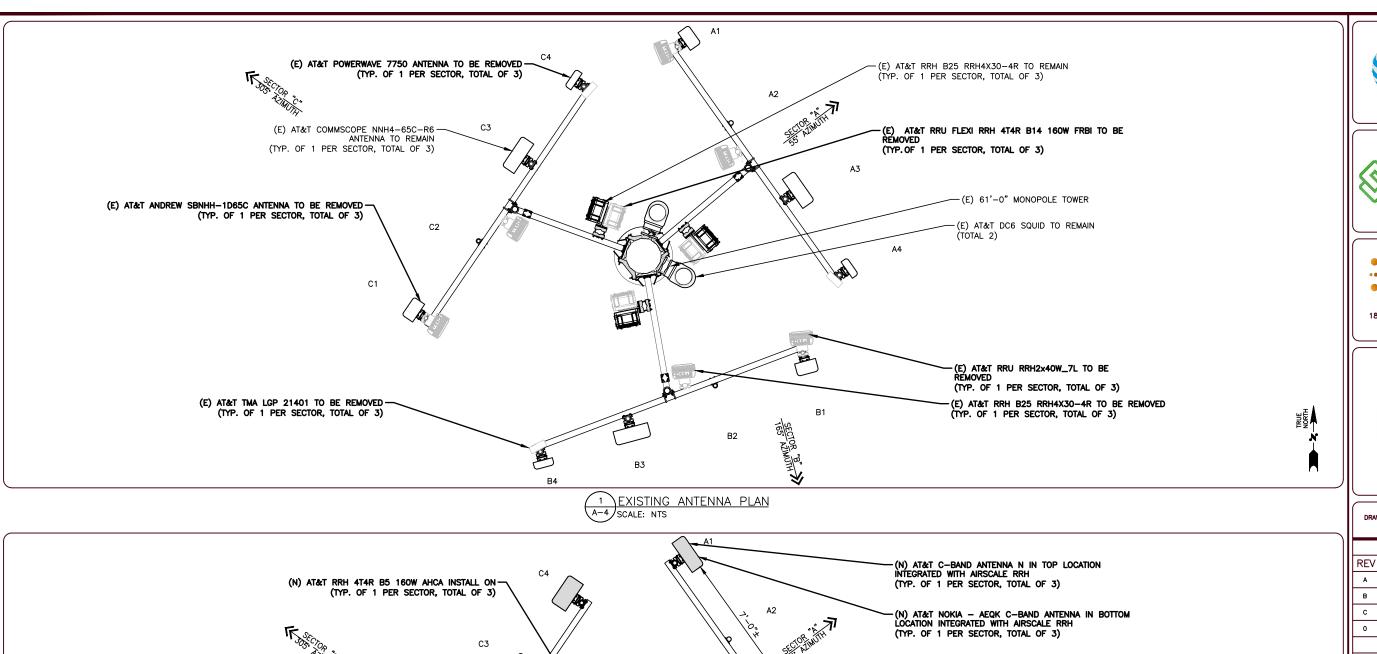
SITE ADDRESS: 11901 SOUTH 700 EAST DRAPER, UT 84020

SHEET DESCRIPTION

EXISTING & PROPOSED EQUIPMENT SHELTER PLANS

SHEET No.

A-3



2 PROPOSED ANTENNA PLAN

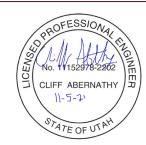
A-4 SCALE: NTS







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SITE INFORMATION

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RFDS NAME: UTL02188

SITE NAME: DOWNTOWN DRAPER

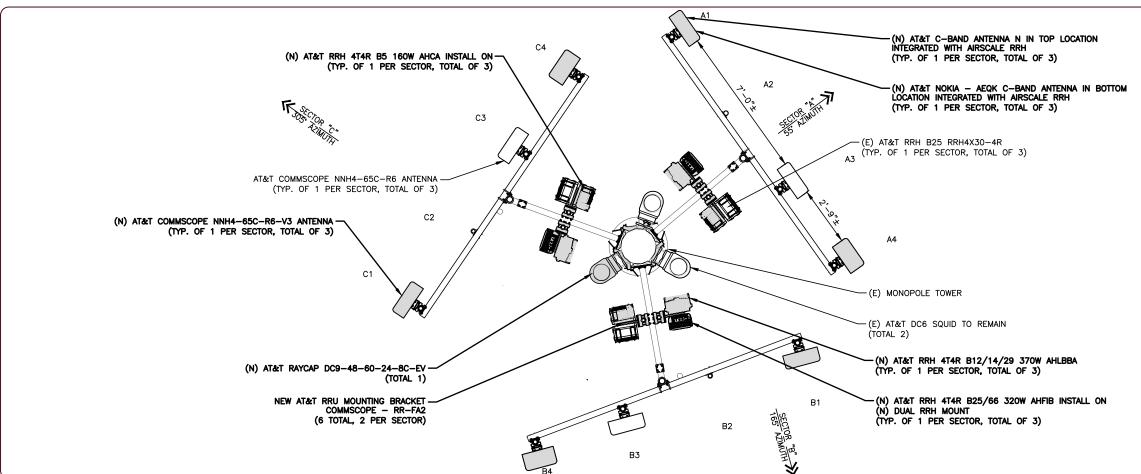
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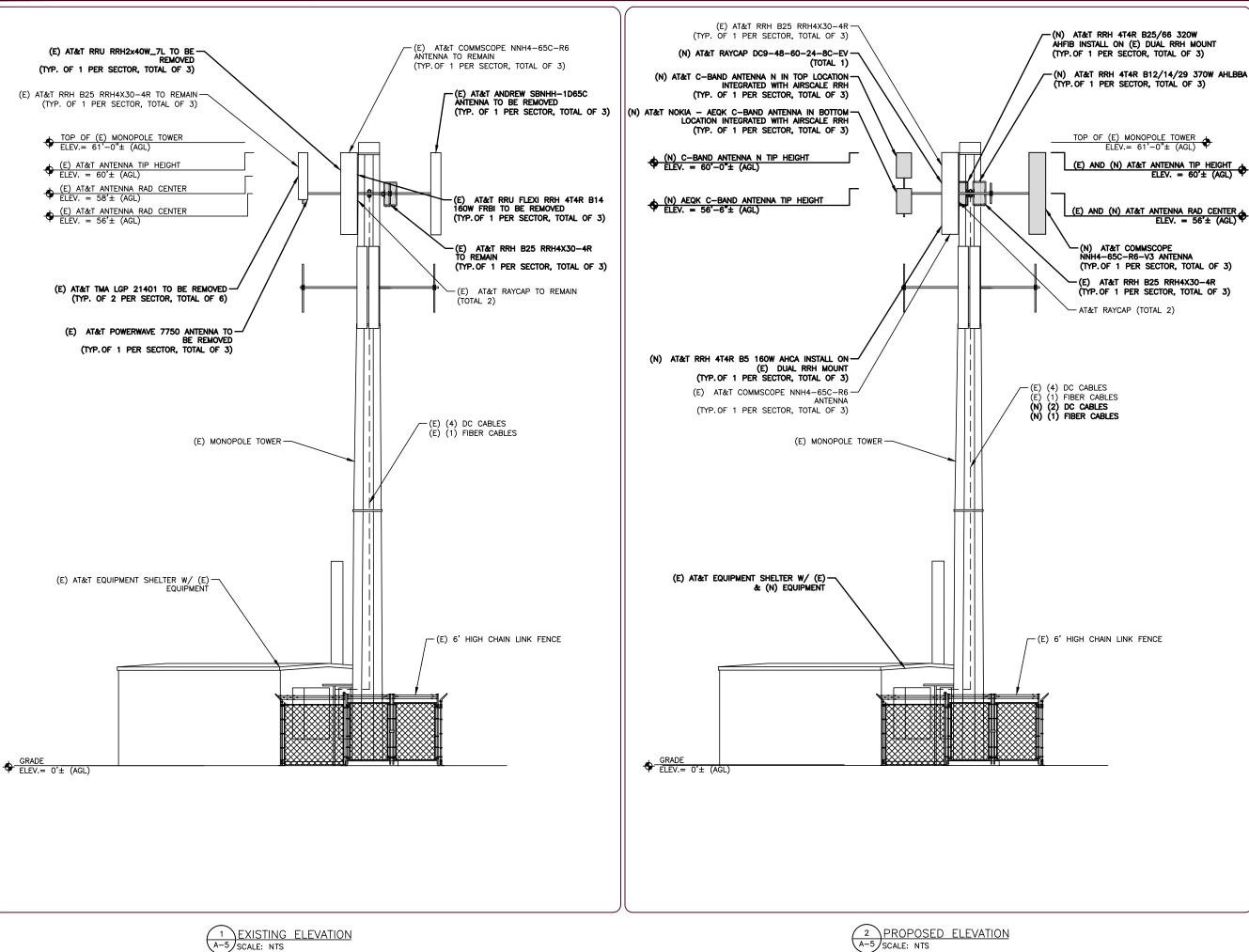
EXISTING & PROPOSED ANTENNA PLANS

SHEET No.

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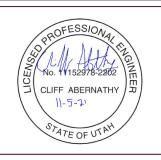








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RFDS NAME: UTL02188

SITE NAME: DOWNTOWN DRAPER

SITE ADDRESS: 11901 SOUTH 700 EAST DRAPER, UT 84020

SHEET DESCRIPTION

EXISTING & PROPOSED TOWER ELEVATIONS

SHEET No.

A-5

2 PROPOSED ELEVATION A-5 SCALE: NTS

					UTL02188 ANTENNA	AND EQUIPMEN	T SCHED	ULE UTLO	2188	
		TEOU			ANTENNA					
SEC	SECTOR TECH		AZIMUTH	MANUFACTURER	MODEL NO. (PORT)	SIZE & WEIGHT	STATUS	RAD CENTER	RADIOS/TMAs	HYBRID CABLES
	1	LTE 700/ 1900	55*	ANDREW	SBNHH-1D65C	96.4"x11.9"x7.1" (49.6 lbs)	EXISTING	56'-0"	(1) RRH2×40W_7L (1) B25 RRH4X30-4R	
,-	2	EMPTY	-	-	-	-	-	-	-	
SECTOR	3	LTE 700/ 1900	55*	COMMSCOPE	NNH4- <u>-</u> 65C-R6	96"x19.6"x7.8" (99.2" lbs)	EXISTING	56'-0"	(1) FLEXI RRH 4T4R B14 160W FRBI (1) B25 RRH4X30-4R	
"	4	UMTS/850 1900	55*	POWERWAVE	7750.00	55"x11"x4" (39 lbs)	EXISTING	58'-0"	(2) LGP 21903* (2) LGP 21401	
	1	LTE 700/ 1900	165°	ANDREW	SBNHH-1D65C	96.4"x11.9"x7.1" (49.6 lbs)	EXISTING	56'-0"	(1) RRH2x40W_7L (1) B25 RRH4X30-4R	(1) (E) FIBER CABLE
7, 7,	2	EMPTY	-	-	-	-	-	-	-	(4) (E) DC POWER CABLE
SECTOR	3	LTE 700/ 1900	165°	COMMSCOPE	NNH4- <u>-</u> 65C-R6	96"x19.6"x7.8" (99.2 lbs)	-	56'-0"	(1) FLEXI RRH 4T4R B14 160W FRBI (1) B25 RRH4X30-4R	
	4	UMTS/850 1900	165°	POWERWAVE	7750.00	55"x11"x4" (39 lbs)	EXISTING	58'-0"	(2) LGP 21903* (2) LGP 21401	
	1	LTE 700/ 1900	305°	ANDREW	SBNHH-1D65C	96.4"x11.9"x7.1" (49.6 lbs)	EXISTING	56'-0"	(1) RRH2x40W_7L (1) B25 RRH4X30-4R	
R '3'	2	EMPTY	_	-	-	-	-	-	-	
SECTOR	3	LTE 700/ 1900	305°	COMMSCOPE	NNH4- <u>-</u> 65C-R6	96"x19.6"x7.8" (99.2 lbs)	EXISTING	56'-0"	(1) FLEXI RRH 4T4R B14 160W FRBI (1) B25 RRH4X30-4R	
	4	UMTS/850 1900	305°	POWERWAVE	7750.00	55"x11"x4" (39 lbs)	EXISTING	58'-0"	(2) LGP 21903* (2) LGP 21401	

* - DENOTES EQUIPMENT ON GROUND

EXISTING ANTENNA SCHEDULE

SCALE:
N.T.S.

1

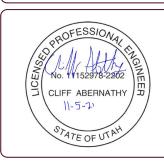
					UTL02188 ANTENNA	AND EQUIPMEN	T SCHED	ULE UTLO	02188	
CEO.	TOD	TEOU	A 711 41 1T1 1		Al	NTENNA				HYBRID CABLES
SECTOR		TECH	AZIMUTH	MANUFACTURER	MODEL NO. (PORT)	SIZE & WEIGHT	STATUS	RAD CENTER	RADIOS/TMAs	HIBRID CABLES
. [1	LTE 700/ 1900	55°	COMMSCOPE	NNH4-65C-R6-V3	96"x19.6"x7.8" (99.2 lbs)	NEW	56'-0"	(1) RRH4T4R B12/14/29 370W AHLBBA (1) RRH 4T4R B25/66 320W AHFIB	
٦.	2	EMPTY	-	-	-	_	-	-	-	
SECTOR	3	LTE 1900/ 5G/850	55°	COMMSCOPE	NNH4-65C-R6	96"x19.6"x7.8" (99.2 lbs)	EXISTING	56'-0"	(1) RRH 4T4R B5 160W AHCA (1) RRH B25 RRH4X30-4R	
S	4	5G	55°	NOKIA	C—BAND ANTENNA N AEQK	59"x17.7"x9.5" (198.4 lbs)	NEW	58'-9"	INTEGRATED	
	1	LTE 700/ 1900	165°	COMMSCOPE	NNH4-65C-R6-V3	96"x19.6"x7.8" (99.2 lbs)	NEW		(1) RRH4T4R B12/14/29 370W AHLBBA (1) RRH 4T4R B25/66 320W AHFIB	(1) (E) FIBER CABLE
'2,	2	EMPTY	-	-	-	_	-	_	-	(4) (E) DC POWER CABLE
SECTOR	3	LTE 1900/ 5G/850	165°	COMMSCOPE	NNH4-65C-R6	96"x19.6"x7.8" (99.2 lbs)	EXISTING	56'-0"	(1) RRH 4T4R B5 160W AHCA (1) RRH B25 RRH4X30-4R	(2) (N) DC CABLE
•	4	5G	165°	NOKIA	C-BAND ANTENNA N AEQK	59"x17.7"x9.5" (198.4 lbs)	NEW	58'-9"	INTEGRATED	(2) (N) DO CABLE
بن بن آن	1	LTE 700/ 1900	305°	COMMSCOPE	NNH4-65C-R6-V3	96"x19.6"x7.8" (99.2 lbs)	NEW	56'-0"	(1) RRH4T4R B12/14/29 370W AHLBBA (1) RRH 4T4R B25/66 320W AHFIB	(1) (N) FIBER CABLE
	2	EMPTY	-	-	-	-	-	-	-	
SECTOR	3	LTE 1900/ 5G/850	305*	COMMSCOPE	NNH4-65C-R6	96"x19.6"x7.8" (99.2 lbs)	EXISTING	56'-0"	(1) RRH 4T4R B5 160W AHCA (1) RRH B25 RRH4X30-4R	
-,	4	5G	305°	NOKIA	C—BAND ANTENNA N AEQU	59"x17.7"x9.5" (198.4 lbs)	NEW	58'-9"	INTEGRATED	







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١	SUBMITTALS							
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١	С	10/25/21	90% CD	SUA				
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SITE INFORMATION

SITE ID: UTL02188

RFDS NAME: UTL02188

SITE NAME: DOWNTOWN DRAPER

SITE ADDRESS: 11901 SOUTH 700 EAST DRAPER, UT 84020

SHEET DESCRIPTION

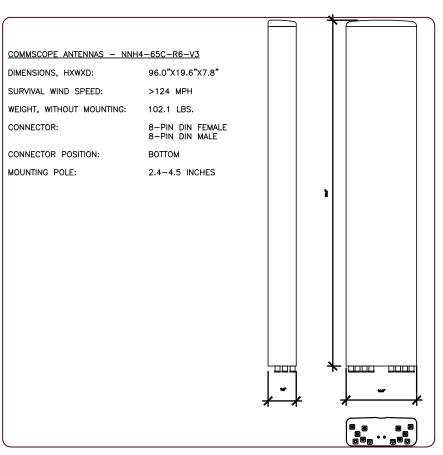
ANTENNA AND EQUIPMENT SCHEDULE

SHEET No.

A - 6

NEW ANTENNA SCHEDULE

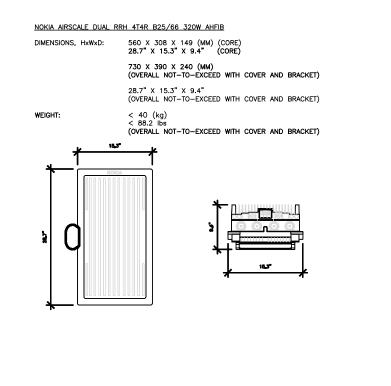
SCALE: 2





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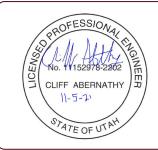
SCALE: NTS



PROPOSED RRU AHFIB DETAIL

SCALE: NTS





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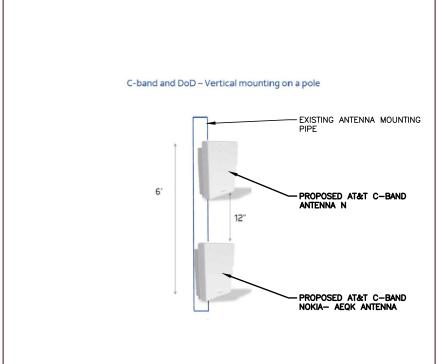
SHEET DESCRIPTION

EQUIPMENT DETAILS

SHEET No.

A - 7

PROPOSED ANTENNA NNH4-65C-R6-V3 DETAIL
SCALE: NTS

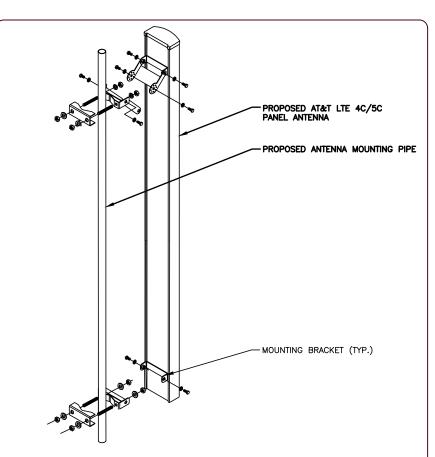


PROPOSED RRU AHLBBA DETAIL

NOKIA NOKIA AIRSCALE RRH 4T4R B5 160W AHCA

DIMENSIONS, HXWXD: 337 × 295 × 165 (MM)
13.3" × 11.6" × 6.5"

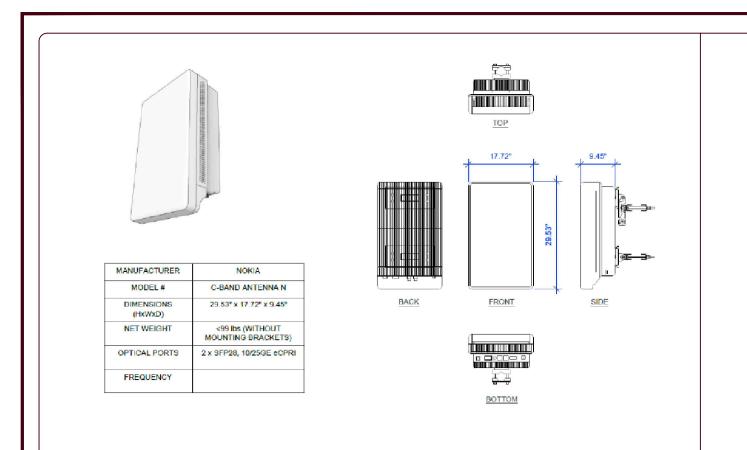
WEIGHT: 16.7 (kg)
36.8 lbs

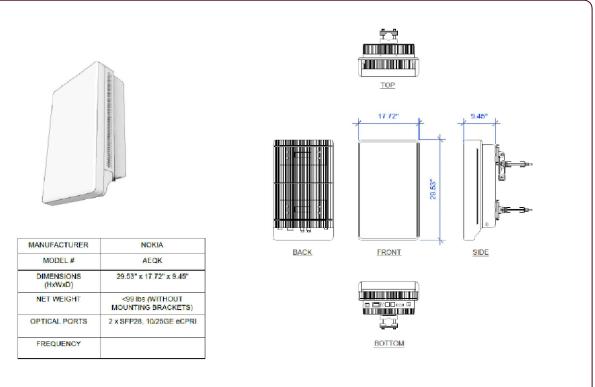


4 ANTENNA MOUNTING DETAILL scale: NTS

5 C-BAND STACK MOUNTING INSTRUCTION AND SEPRATION SCALE: NTS

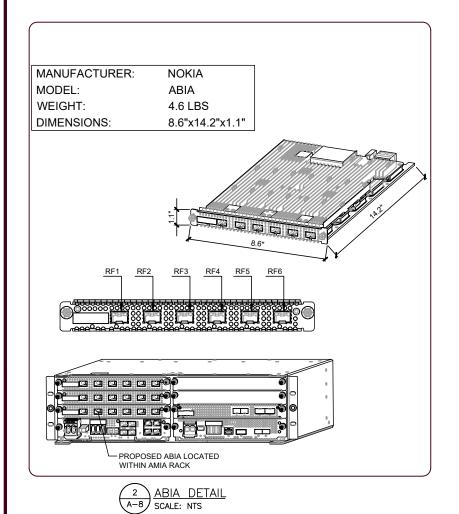
6 PROPOSED RRU AHCA DETAIL SCALE: NTS

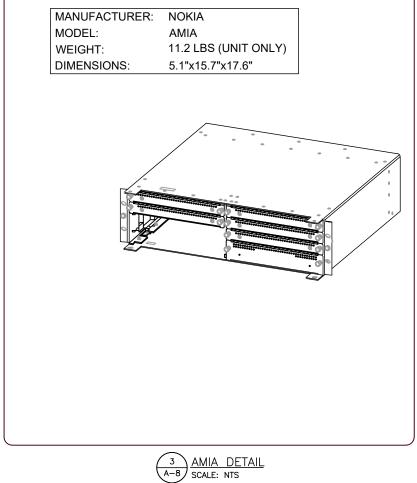


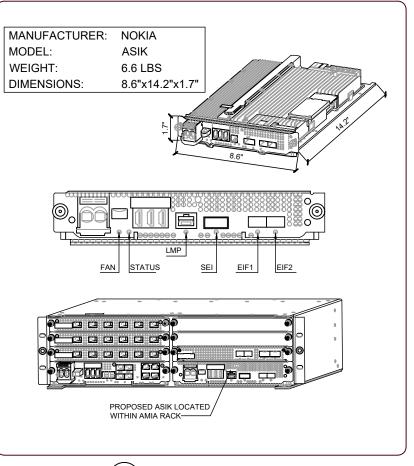


PROPOSED C-BAND ANTENNA N DETAIL
SCALE: NTS

2 PROPOSED AEQK C—BAND ANTENNA DETAIL SCALE: NTS



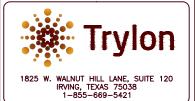


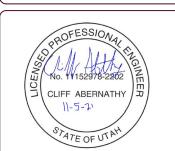












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SITE NAME: DOWNTOWN DRAPER

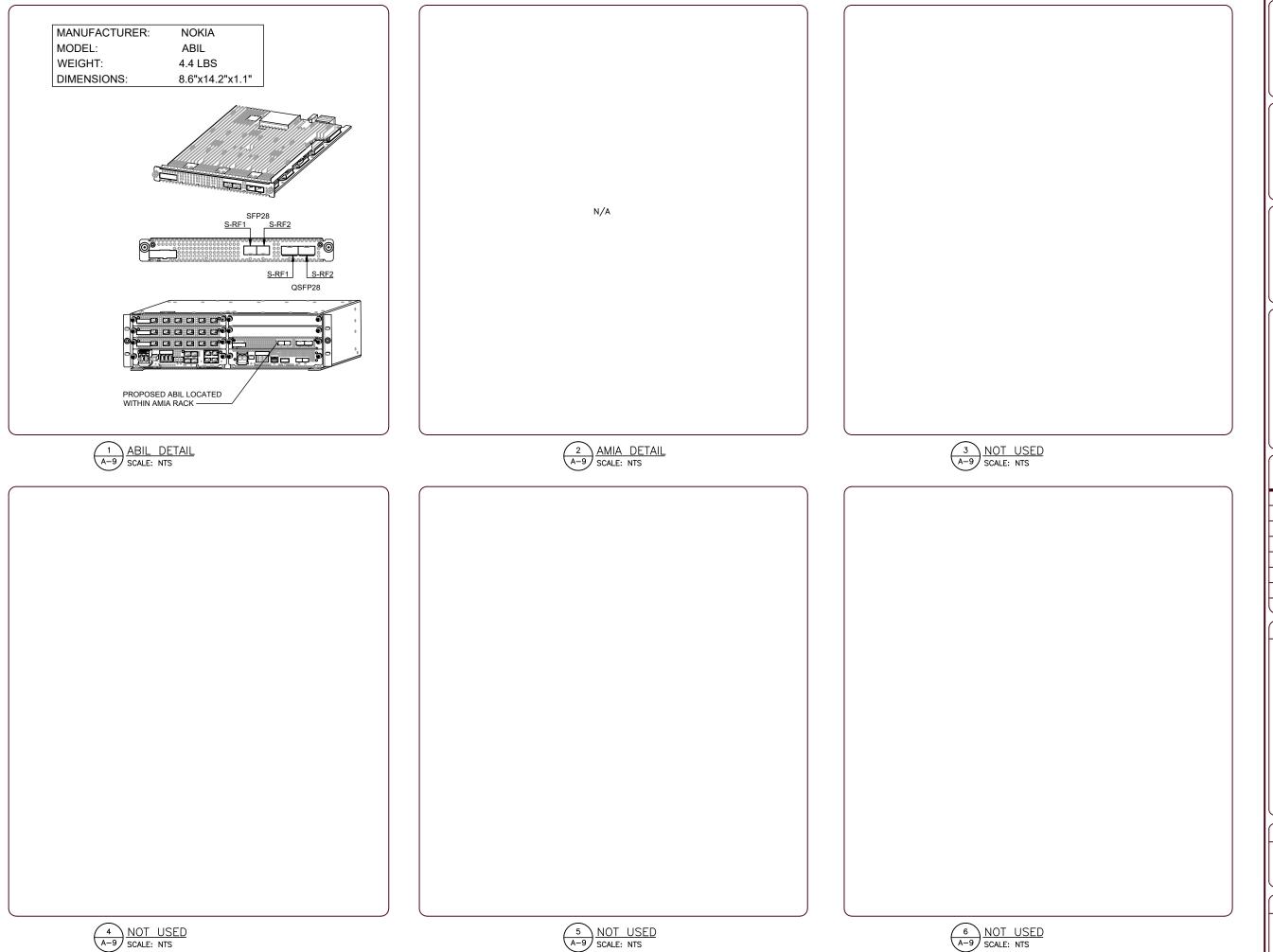
SITE ADDRESS: 11901 SOUTH 700 EAST DRAPER, UT 84020

SHEET DESCRIPTION

EQUIPMENT DETAILS

SHEET No.

A-8

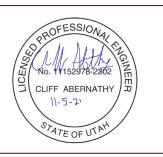








1825 W. WALNUT HILL LANE, SUITE 120 IRVING, TEXAS 75038 1-855-669-5421



DRAWING SCALES ARE INTENDED FOR 11"x17" SIZE PRINTED MEDIA ONLY.

	SUBMITTALS									
REV	DATE	DESCRIPTION	BY							
Α	09/23/21	90% CD	DHR							
В	10/21/21	90% CD	DHR							
С	10/25/21	90% CD	SUA							
0	11/01/21	100% CD	SUA							

SITE INFORMATION

SITE ID: UTL02188

RFDS NAME: UTL02188

SITE NAME: DOWNTOWN DRAPER

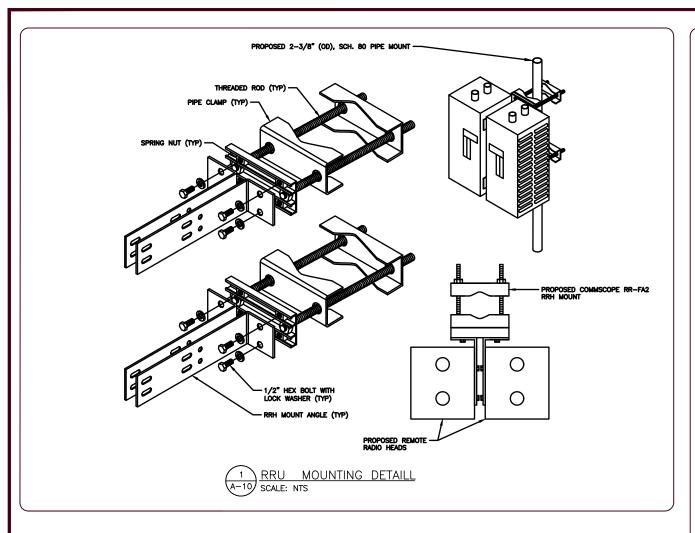
SITE ADDRESS: 11901 SOUTH 700 EAST DRAPER, UT 84020

SHEET DESCRIPTION

EQUIPMENT DETAILS

SHEET No.

A - 9





Dimensions

Height 416.56 mm | 16.4 in

Width 218.44 mm | 8.6 in

Length 457.2 mm | 18 in

Mounting Diameter 2, maximum 142.24 mm | 5.6 in

Mounting Diameter 2, minimum 0 mm | 0 in

Mounting Diameter, maximum 142.24 mm | 5.6 in

Mounting Diameter, minimum 0 mm | 0 in

Material Specifications

Material Type Hot dip galvanized steel

Packaging and Weights

Included Clamps | Hardware

Packaging quantity 2

Weight, net 16.329 kg | 36 lb

COMMSCOPE - RR-FA2 BRACKET DETAIL
SCALE: NTS



Technical Specifications

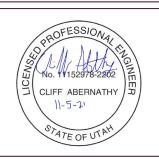
SYSTEM FEATURES	
DC Output Voltage	-48 VDC (nominal)
AC Input Voltage	208/240 VAC single phase (nominal)
RATED OUTPUT CAPAC	CITY
System	1000 amps at -48 VDC, 520 amps at +24 VDC
Shelf	250 amps at -48 VDC, 187.5 amps at +24 VDC
Distribution Panel	600 amps at -48 VDC, 520 amps at +24 VDC
PHYSICAL CHARACTE	RISTICS
Framework Type	Relay rack
Width	25.5 Inches
Depth	22 Inches
Height	84 Inches
Access	Front access for installation, operation and maintenance
ENVIRONMENTAL	
Operating	-40 °F to 104 °F (-40 °C to 40 °C) continuous operation
Storage	-40 °F to 185 °F (-40 °C to 85 °C)
Humidity	0% to 95% relative humidity, non-condensing
Ventilation	Rectifiers/converters are fan-cooled front to rear
EMI/RFI Suppression	Conforms to FCC rules Part 15, Subpart B, Class B and EN55022 Class B, radiated and conducted
Safety Compliance	UL Listed to 1801, cUL, NEBS Level 3 Certified







1825 W. WALNUT HILL LANE, SUITE 120 IRVING, TEXAS 75038 1-855-669-5421



DRAWING SCALES ARE INTENDED FOR 11"x17" SIZ

I	SUBMITTALS									
I	REV	REV DATE DESCRIPTION								
I	Α	09/23/21	90% CD	DHR						
I	В	10/21/21	90% CD	DHR						
I	С	10/25/21	90% CD	SUA						
I	0	11/01/21	100% CD	SUA						
l										
۱										

SITE INFORMATION

SITE ID: UTL02188

RFDS NAME: UTL02188

SITE NAME: DOWNTOWN DRAPER

SITE ADDRESS: 11901 SOUTH 700 EAST DRAPER, UT 84020

SHEET DESCRIPTION

EQUIPMENT DETAILS

SHEET No.

A - 10

PROPOSED NETSURE 7100 POWER PLANT DETAIL SCALE: NTS



Applications

From the World Leader in

VRLA Battery Technology
Designed for durability in Telecommunications and Electric Utility applications, the GNB Industrial
Power MARATHON® M12V180FT Battery provides high performance and reliability in long duration
discharge applications. The location of the terminals on the front (vs. the top) of the battery greatly
facilitates the installation and maintenance of the product when placed in a cabinet enclosure or on a
standard relay rack tray. The MARATHON® M12V160FT Battery highlights another example of GNB
Industrial Power's extensive experience and world wide leadership in VRLA technology.

"Designed in" Quality Manufacturing
Quality manufacturing processes for the MARATHON® M12V180FT Battery incorporates the industry's most advanced technologies including; an automated helium leak detection system, a computer
controlled "fill by weight" acid filler, and a temperature controlled water bath formation process. Each
and every unit is capacity tested.

High Performance MARATHON® M12V180FT Features

- Patented "Diamond Side-Wall" Design maintains structural integrity in higher operating temperatures Durable Flame Relardant Polygropylene Gontainer and Cover compiles with UL94 Y-0; 28% L.O.I.
- Garry Handles facilitates ease of installation
- High-Compression Absorbent Glass Mat (AGM) Technology ensures greater than 99% recombination efficiency
- Integrated Flash Arrestor ultrasonically welded into cover for secure and safe protection ultrasorically weided into cover for secure and safe protection

 10 Year Design Life
 in float applications # 25°C (7" F); 12 year # 20°C (88" F)

 Superior Lead-Tim-Calcium Positive Alloy
 helps to resist corrosion

 Higher Vent Opening Pressure
 minimizes unnecessary passing; one-way self resealing device

 Front Accessible Copper Alloy, 6 mm, Female Terminals
 ensures for resistance, high integrity connections

- Front Accessible Copper Alloy, 6 mm, Female Terminals ensures tow resistance, Inji integrity connections

 Basy OniEasy Off Terminal Post Protector provides added safety

 Wider Bushing
 allows access for larger probes

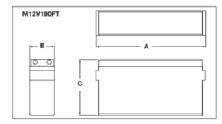
 Footprint Ready
 fits in all standard 23* Reliay Rack Applications

 Compliance: Designed in accedance with IEC 60896-21-22

 No Transport Restrictions Complies with IATMICAO Special Provision A67; DOT-CFR Title 49; IMDG Amendment 34-08

MARATH N°

		Capaci	Nominal Dimensions							Nominal	
44.47		A. L			Inches		Millimeters			Weight	
Model Number	Voltage		10 hr to 1.80 VPC @ 20°C	А	В	c	A	В	С	Ibs.	Kg
M12V180FT	12	180	175	22.00	4.90	12.50	559	124	318	133	60



Float Voltage & Charging

Recommended float voltage: 2.27 VPC € 25°C (77°F) Float Voltage Range: 2.25 to 2.30 VPG @ 25°C (77°F)

NOTE: Design and/or specifications subject to change without notice if questions arise, context your local GNB industrial Power sales representative for charifostion

Marathon® M12V180FT Electrical Data

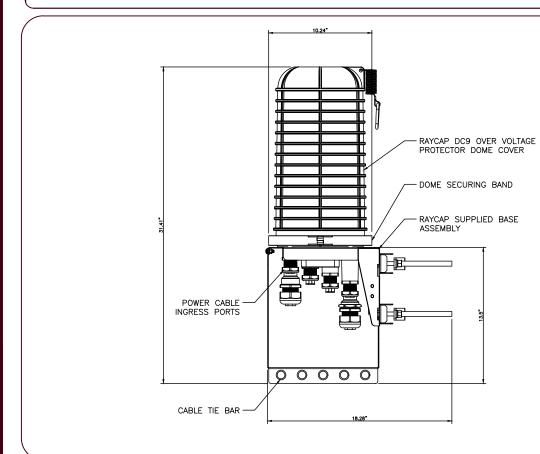
Model Number	Short Circuit Current Amps	Internal Resistance (mOhms)
M12V180FT	4147	3.0

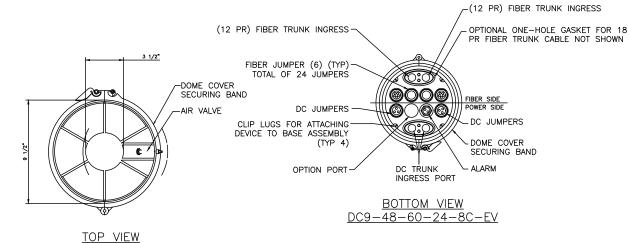
Marathon M12V180FT Performance Specifications

End Voltage									Tima							
Per Cell	24 hr	20 ly:	12 hr	10 hr	9 hr	Bite	7 hr	6 hr	5 eth	4 hr	3 hr	2.5 hr	2 hr	1.5 hr	1 br	9.5-hr
:94 Final Volts Per Cell	8.4	7.6	12.2	14.4	15.9	17.7	20.0	22.5	26.1	31.2	39.4	45.8	54.6	89.1	89.8	134.0
.92 Final Volts Per Cell	6.8	8.0	12.9	15.3	16.9	18.9	21.1	23.8	27.6	33.1	41.9	48.6	58.3	73.1	96.1	144.5
.90 Final Volts Per Cell	7.1	8.4	13.6	16.1	17.8	19.9	22.0	24.9	28.9	34.8	44.0	51.2	61.5	76.6	101.7	154.6
.87 Final Volts Per Cell	7.5	8.9	14.3	16.9	18.6	20.8	23.6	26.5	30.6	36.5	45.8	52.8	63.0	79.0	108.7	167.9
J85 Final Volts Per Cell	7.7	9.1	14.6	17.3	19.1	21.3	24.1	27.1	31.3	37.4	47.1	54.4	65.0	81.7	112.7	175.2
.83 Final Volts Per Cell	7.9	9.3	14.9	17.6	19.5	21.7	24.6	27.6	31.9	38.2	48.0	55.6	66.5	83.8	115.9	181.6
.81 Final Volta Per Cell	7.9	9.4	15.1	17.9	19.7	22.0	24.9	27.9	32.3	38.7	48.8	56.5	67.6	85.3	118.2	188.4
.80 Final Volts Per Cell	8.0	9.4	15.2	18.0	19.8	22.1	25.0	28.0	32.5	38.9	49.1	56.8	68.0	85.8	119.1	199.5
.78 Final Volts Per Cell	8.0	9.5	15.3	18.1	20.0	22.3	25.2	28.2	32.7	39.2	49.5	57.4	68.7	86.7	120.3	191.9
.75 Final Volts Per Cell	8.1	9.6	154	18.3	20.2	99.15	25.5	28.4	33.0	39.5	49.9	57.9	69.4	B7.6	121.7	194.5

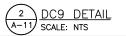


MARATHON M12V180FT BATTERY DETAIL





RAYCAP DC9 (SQUID)						
LENGTH (H)	18.28"					
WIDTH (W)	10.24"					
HEIGHT (D)	31.4"					
WEIGHT: SYSTEM MOUNT	16.0 LBS 10.2 LBS					
TOTAL:	26.2 LBS					

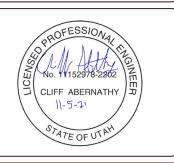








1825 W. WALNUT HILL LANE, SUITE 120 IRVING, TEXAS 75038 1-855-669-5421



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ш										
l	SUBMITTALS									
l	REV	DATE	DESCRIPTION	BY						
l	Α	09/23/21	90% CD	DHR						
l	В	10/21/21	90% CD	DHR						
l	С	10/25/21	90% CD	SUA						
l	0	11/01/21	100% CD	SUA						
l										
l										

SITE INFORMATION

SITE ID: UTL02188

RFDS NAME: UTL02188

SITE NAME: DOWNTOWN DRAPER

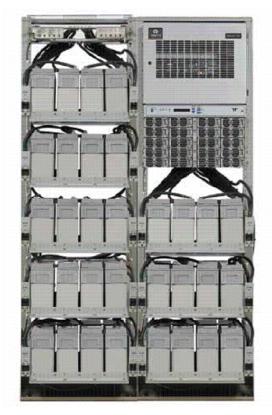
SITE ADDRESS: 11901 SOUTH 700 EAST DRAPER, UT 84020

SHEET DESCRIPTION

EQUIPMENT DETAILS

SHEET No.

A - 11



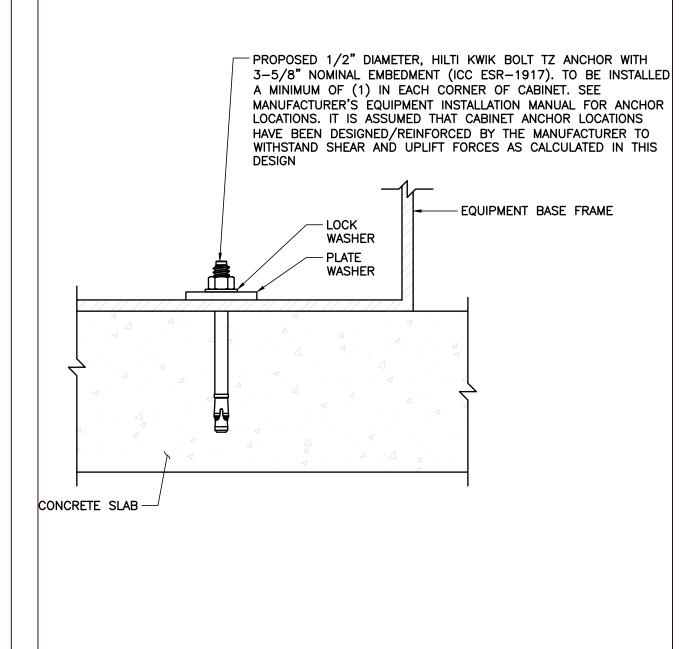
+24V, Five-Tray (10 Strings) Battery Rack with NetSure* 700 DC Power System



Single-Bay Battery Rack

Technical Specifications

+24 Volts DC or -48 Volts DC
1200 amps per bay
84' x 25.5' x 24.4'
600 lbs.
-40 °C to +40 °C (-40 °F to +104 °F)
-40 °C to +85 °C (-40 °F to +185 °F)
UL Listed and Seismic Zone 4 compliant

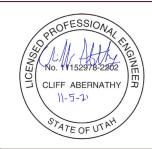








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SUBMITTALS									
REV	DATE	DATE DESCRIPTION							
A	09/23/21	90% CD	DHR						
В	10/21/21	90% CD	DHR						
С	10/25/21	10/25/21 90% CD 11/01/21 100% CD							
0	11/01/21								

SITE INFORMATION

SITE ID: UTL02188

RFDS NAME: UTL02188

SITE NAME: DOWNTOWN DRAPER

SITE ADDRESS: 11901 SOUTH 700 EAST DRAPER, UT 84020

SHEET DESCRIPTION

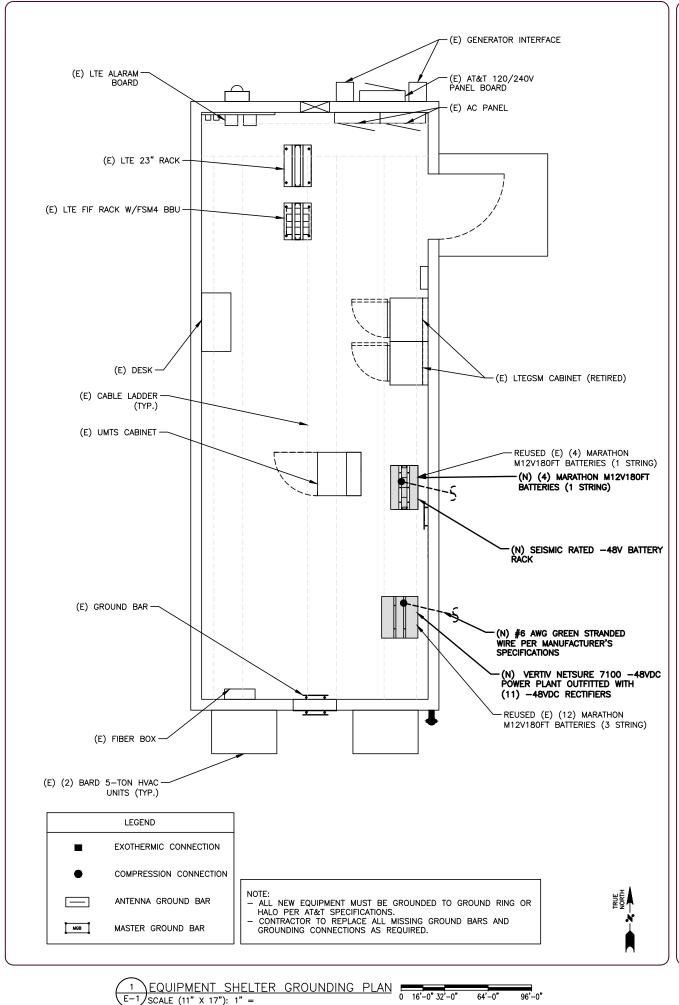
EQUIPMENT DETAILS

SHEET No.

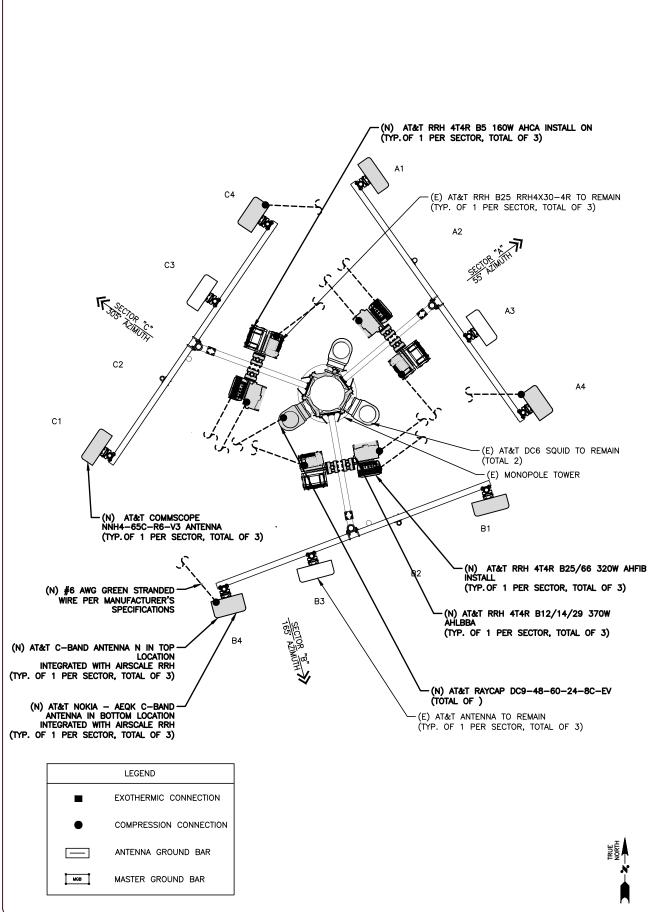
A - 12

1 A-12 BATTERY RACK DETAIL SCALE: NTS





E-1 SCALE (11" X 17"): 1" =

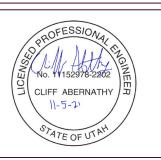








1825 W. WALNUT HILL LANE, SUITE 120 IRVING, TEXAS 75038 1-855-669-5421



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	SUBMITTALS										
REV	DATE	DESCRIPTION	BY								
A	09/23/21	90% CD	DHR								
В	10/21/21	90% CD	DHR								
С	10/25/21	90% CD	SUA								
0	11/01/21	100% CD	SUA								

SITE INFORMATION

SITE ID: UTL02188

RFDS NAME: UTL02188

SITE NAME: DOWNTOWN DRAPER

SITE ADDRESS: 11901 SOUTH 700 EAST DRAPER, UT 84020

SHEET DESCRIPTION

GROUNDING PLAN

SHEET No.

E-1

2 ANTENNA MOUNT GROUNDING PLAN E-1 SCALE: NTS

_	UTI 02100 / DO	NAVNITON	D EV	ICTINIC	AC DAN	IEL "	Λ" E\	/ICTI	NC DDE	AKER SCHEDULE	_		
	01102100 / 00	VVIVIOV			K, EA	DVIICE	AC PAN	VEL /		_	NG BRE	AKER SCHEDULE	$\overline{}$
			JO.	ons					Sno	ᅙ			
	LOAD		LOAD LOADS CONJUNIOON OABS CONJUNIOON SAME SERVER REPORT OF THE SAME OADS CONJUNIOONS OADS		BREAKER	LOAD PER PHASE		BREAKER	LOADS	INENC		LOAD	
	DESCRIPTION	VOLT- AMPS	VOLT- 8		BR	"A"	"B"	iii	LOADS	LOADS CONTINUOUS	VOLT- AMPS	DESCRIPTION	
1	1000 0 44	2964		NC	60	4404		20		С	1440	TOWER LIGHT	2
3	HVAC#1	2964		NC	60		2973	15		С	9	SMOKE DETECTOR	4
5	RECTIFIER #1	1924		NC	30	3848		30	NC		1924	RECTIFIER #2	6
7	RECTIFIER#1	1924		NC	30		3848	30	NC		1924	RECTIFIER #2	8
9	RECTIFIER #3	1924		NC	30	3848		20	NC		1924	RECTIFIER #4	10
11	RECTIFIER #3	1924		NC	30		3848	30	NC		1924	RECTIFIER #4	12
13	OB4 DE (OEE)				30	0		30				OB A DE (OFF)	14
15	SPARE (OFF)				30		0	30				SPARE (OFF)	16
17	0.D.L.DE (0.E.E.)				00	0						00 (DE (OEE)	18
19	SPARE (OFF)				30		0	30				SPARE (OFF)	20
21	00.00.000					0						00.00.000	22
23	SPARE (OFF)				30		0	30				SPARE (OFF)	24
25						0							26
27	SPARE (OFF)				30		0	30				SPARE (OFF)	28
29	INTERIOR RECEPTACLES	720		NC	15	1860		20	NC		1140	INTERIOR/EXTERIOR LIGHTS	30
31	CORD REEL	180		NC	20		900	15	NC		720	INTERIOR RECEPTACLES	32
33	BLANK					0						BLANK	34
35	BLANK						0					BLANK	36
37	BLANK					0	1					BLANK	38
39	BLANK						0						40
41	BLANK					0		30				AUXILIARY SERVICES (OFF)	42
		CONNECTE	PHA	SE TOTA	IS VA:	13960	11569	i –					
		CONNECTED PHASE TOTALS, VA: 13960 11569					۸٥	AC PANEL DATA					
	CONI	VECTED LOA	DDFR	DHASE	AM/DS-	116	96	1	S	VSTEM	240	+	
		NECTED LO		_	_	13.960	11.569		SYSTEM VOLTAGE: MAIN BREAKER:			200	+ -
-	COI	TOTAL CON			,	25.		BUSS RATING:			200		
		IOTALCOR	VINECT	ED LUA	J, KVA:	23.	323						+ -
_	Navigan	TINUI DE LO		D DILLEC	F 10.41	40.500	44 500				LUG ONLY:	N/A	-
		TINUOUS LC			_	12.520	11.560				IC RATING:	65/10 KAIC SERIES-RATED	-
	TOTA	LNONCON	INUO	US LOAI	D, KVA:	24.	080		NOTES	5:			
	CON	TIN UOUS LC	AD PE	R PHAS	E, KVA:	1.800	0.011		1				
		TOTAL CON	TIN UO	US LOA	D, KVA:	1.3	811						
	DEMAND LOAD (CONT + NONCONT) PER PHASE, KVA:					14.320	11.571						
	TOTAL DEMAND LOAD (CONTINUOUS + NONCONTINUOUS), KVA:					25.	891						
	TOTAL DEMAND LO	DAD (CONT	+ NON	ICONT),	AMPS:	119	96						
		P/	NELC	APACIT	Y, KVA:	48.	000						
		SPARE PA	NELC	APACIT	Y, KVA:	22.	109	i					
			_					_	_		_		

EXISTING AC PANEL "A", EXISTING BREAKER SCHEDULE

	U1L02188 / DO	WNIOV	VN D	RAPE	R, EX	ISTING	AC PAN	NEL "I	B", EX	(ISTI	NG BREA	AKER SCHEDULE	
			SUC	US					JS	SUC			
			ğ	9	~			~	9	ğ			
	LOAD			LOADS	CONTINU	LOAD PE	R PHASE	BREAKER	LOADS	EN		LOAD	
	DESCRIPTION VI		LOADS CONTINUOUS	LOADS	BR	"A"	"B"	**	LOADS	LOADS CONTINUOUS	VOLT- AMPS	DESCRIPTION	
1	18710 #0	2964		NC	00	3144		20	NC		180	EXTERIOR RECEPTACLE	2
3	HVAC#2	2964		NC	60		2964	20				SPARE (OFF)	4
5	RECTIFIER #5	1924		NC	30	3848		30	NC		1924	RECTIFIER #6	6
7	RECTIFIER #5	1924		NC	30		3848	30	NC		1924	RECTIFIER #6	8
9	RECTIFIER #9	1924		NC	30	3848		30	NC		1924	RECTIFIER #8	1
11	RECTIFIER #9	1924		NC	30		3848	30	NC		1924	RECTIFIER #8	1
13	00105 (055)				20	0		30				ODADE (OFF)	1
15	SPARE (OFF)				30		0	30				SPARE (OFF)	1
17	ant pe (ase)				00	0						00405 (055)	13
19	SPARE (OFF)				30		0	30				SPARE (OFF)	20
21						0							2
23	SPARE (OFF)				30		0	30				SPARE (OFF)	2
25						0							2
27	SPARE (OFF)				30		0	30				SPARE (OFF)	2
29						840		15	NC		840	INTERIOR LIGHTS	30
31	SPARE (OFF)				30		0	20				SPARE (OFF)	32
33	BLANK					0		20				SPARE (OFF)	34
35	BLANK						0	20				SPARE (OFF)	3
37	BLANK					0		20				SPARE (OFF)	3
39							0						4
41	AUXILIARY SERVICES (OFF)				30	0		30				AUXILIARY SERVICES (OFF)	4
		ONNECTE	D PHAS	SE TOTA	LS. VA:	11680	10660	<u> </u>					
-						11000					AC	PANEL DATA	1
Ť	CONN	ECTED LOA	D PER	PHASE	AMPS-	97	89	1	SVSTEN			240	1
- 1		NECTED LC				11,680	10,660			SYSTEM VOLTAGE: MAIN BREAKER:		200	+
- 1		TOTAL CON			,		340				S RATING:	225	+
_ L		IUIALCU	VIVECT	ED LUAL	J, KVA:	22.	340		-		LUG ONLY:	N/A	+
- 1	LI OLI COLIT			D DILLEC	F 10.41	44.000	40.000						+
- 1	NONCONT					11.680	10.660				C RATING:	65/10 KAIC SERIES-RATED	4
_	TOTAL	NONCON	TINUO	US LOAL	D, KVA:	22.	340		NOTES				
T	CONT	IN UOUS LO	AD PE	R PHASI	E, KVA:	0.000	0.000	İ					H
	TOTAL CONTINUOUS LOAD, KVA:					0.0	000						
	BELLINE 187 - 7		rum) r			44.00	40.00-		<u> </u>				_
-	DEMAND LOAD (CON					11.680	10.660	-					
-	TOTAL DEMAND LOAD (CONTINUE						340						
_ [TOTAL DEMAND LO	AD (CONT	+ NON	CONT),	AMPS:	97	89						
		P/	NELC	APACIT'	Y, KVA:	48.	000						
- 1	SPARE PANEL CAPACITY, KVA:						660	l					

2 EXISTING AC PANEL "B", EXISTING BREAKER SCHEDULE

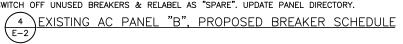
			ons	Snc					Sno	ons			
	LOAD		TOAD LOAD SOM		LOADS CONTINUO BREAKER		LOAD PER PHASE		LOADS	UNITNO	LOAD		
	DESCRIPTION	VOLT- AMPS	LOADS CONTINUOUS	LOADS	BR	"A"	"B"	BREAKER	LOADS NONCONTINUOUS	LOADS CONTINUOUS	VOLT- AMPS	DESCRIPTION	
1	HVAC#1	2964		NC	60	4404		20		С	1440	TOWER LIGHT	T
3	HVAC#1	2964		NC	00		2973	15		C	9	SM OKE DETECTOR	
5	VERTIV RECTIFIERS #1 & #2*	2000		NC	30	4000		30	NC		2000	VERTIV RECTIFIERS #3 & #4*	1
7	VERTIVIAECTIFIERS #1 0 #2	2000		NC	30		4000	30	NC		2000	VERTIVIAECTIFIERS #3 & #4	
9	VERTIV RECTIFIER \$ #5 & #6*	2000		NC	30	4000		30	NC		2000	VERTIV RECTIFIERS #7 & #8*	1
11	VERTIVIACCITIENS #3 Q #0	2000		NC	30		4000	30	NC		2000	VERTIVIAECTII TERS #7 & #0	1
13	SPARE (OFF)				30	0		30				SPARE (OFF)	1
15	5.7.1.2 (611)						0	30				5.7.1.2 (011)	1
17	SPARE (OFF)				30	0		30				SPARE (OFF)	1
19	OT AIRE (OTT)				50		0	00				OF AIRE (OFF)	2
21	SPARE (OFF)				30	0		30				SPARE (OFF)	2
23	OF FAILE (OFF)						0					OF ALLE (OFF)	2
25	SPARE (OFF)			\Box	30	0		30				SPARE (OFF)	2
27							0					· · · · · · · · · · · · · · · · · · ·	2
29	INTERIOR RECEPTACLES	720		NC	15	1860		20	NC		1140	INTERIOR/EXTERIOR LIGHTS	3
31	CORD REEL	180		NC	20		900	15	NC		720	INTERIOR RECEPTACLES	3
33	BLANK					0						BLANK	3
35	BLANK						0					BLANK	3
37	BLANK					0						BLANK	3
39	BLANK						0	30				AUXILIARY SERVICES (OFF)	4
41	BLANK					0		-				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	4
	(CONNECTED	PHAS	ETOTA	LS, VA:	14264	11873						_
											AC	PANEL DATA	┸
	CONN	ECTED LOA	D PER	PHASE,	AMPS:	119	99		SYSTEM VOLTAGE:			240	
	CON	NECTED LO	ADPE	R PHAS	E, KVA:	14.264	11.873			MAIN	BREAKER:	200	Τ
		TOTAL CON	NECT	ED LOAE	D, KVA:	26.	137			BUS	S RATING:	225	1
										MAIN	LUG ONLY:	N/A	1
	NONCONT	INUOUS LO	ADPE	R PHAS	E, KVA:	12.824	11.864			KAI	C RATING:	65/10 KAIC SERIES-RATED	1
	TOTAL	NONCONT	INUO	US LOAD	D. KVA:	24.	688		NOTES	S:			1
					,								Г
Ť	CONT	IN UOUS LO	ADPE	R PHAS	F. KVA:	1.800	0.011						Н
		OTALCONT			,	1.8			1				
_				US LOAL	, m.								
- 1	DEMAND LOAD (CONT	T + NONCO	NT) PE	R DHAC	E KVA-	14.624	11.875						4
	TOTAL DEMAND LOAD (CONTINUE				,	26.							
-							99						
_	TOTAL DEMAND LO	_				122 48.							
	PANEL CAPACITY, KVA:												
		SPARE PA			,	21.	1100						

CHANGES ARE INDICATED IN BOLD FONT WITH AN ASTERISK (*). CONNECT NEW RECTIFIERS TO EXISTING 30A/2P BREAKERS, SWITCH OFF UNUSED BREAKERS & RELABEL AS "SPARE". UPDATE PANEL DIRECTORY.

3 EXISTING AC PANEL "A", PROPOSED BREAKER SCHEDULE

			nons	Snor					snor	non			
LOAD			NENO	LOADS	CONTINU	LOAD PE	OAD PER PHASE		LOADS	NENO	LOAD		
	DESCRIPTION VOLT- AMPS		LOADS CONTINUOUS	LOADS	BB	"A"	"B"	BREAKER	LOADS NONCONTINUOUS	LOADS CONTINUOUS	VOLT- AMPS	DESCRIPTION	
1	HVAC#2	2964		NC	60	3144		20	NC		180	EXTERIOR RECEPTACLE	
3	HVAC#2	2964		NC	00		2964	20				SPARE (OFF)	
5	VERTIV RECTIFIERS #9 & #10*	2000		NC	30	4000		30	NC		2000	VERTIV RECTIFIER #11*	L
7	VERTIVINECTITIENS #3 & #10	2000		NC	30		4000	30	NC		2000	VERTIVIAECTITIER #11	
9	SPARE (OFF)*				30	0		30				SPARE (OFF)*	1
11							0						1
13	SPARE (OFF)				30	0		30				SPARE (OFF)	_ 1
15	or rate (or ry				-		0					0.711.2 (0.17)	1
17	SPARE (OFF)				30	0		30				SPARE (OFF)	_1
19							0	-	\perp				2
21	SPARE (OFF)				30	0		30	\vdash		\Box	SPARE (OFF)	2
23	The state of the s						0		\longrightarrow			1. 20 aprox 20 april 12 april	1
25	SPARE (OFF)				30	0	-	30				SPARE (OFF)	Ŀ
27						0.40	0	45	NO		2.01	BUTTERIOR LIGHTO	2
29	SPARE (OFF)				30	840		15	NC		840	INTERIOR LIGHTS	3
31	DI ANIC		_	-		0	0	20	+			SPARE (OFF)	3
33	BLANK BLANK		-			U	0	20	+			SPARE (OFF) SPARE (OFF)	3
35	BLANK					0	U	20	1			SPARE (OFF)	3
39	BLAINK					U	0	20	_			SPARE (OFF)	-
41	AUXILIARY SERVICES (OFF)		-		30	0	U	30	\vdash			AUXILIARY SERVICES (OFF)	-
41		ONNECTE	DRHA	ETOTA	IC VA-	7984	6964	-	_				
-		ONNECTE	D F FIA.	SETOTA	LS, VA.	1304	0304		_		۸۵	PANEL DATA	┪-
- 1	CONN	FCTED LOA	D DED	DUACE	A A AD.C.	67	58	1	- 0	CTEAA	VOLTAGE:	240	+
-		ECTED LOA				7.984	6,964		_				╀
-		NECTED LO			_		948		-		BREAKER:	200	+
		TOTAL COP	VINECT	ED LUA	D, KVA:	14.	940		BUSS RATING: MAIN LUG ONLY:			225	╀
-									-			N/A	+
-	NONCONT					7.984	6.964 948		NOTE:		C RATING:	65/10 KAIC SERIES-RATED	+
	TOTAL	NONCON	IINUO	US LOA	D, KVA:	14.	948		NOTES	4			H
-													Н
_		INUOUS LC			_	0.000	0.000	-	-				Н
_		OTAL CON	IINUO	US LOA	D, KVA:	0.0	000		-				Н
_	PR-1110-101-1	. Nonce		D DIII -	E 10.17	700/	0.007		-				1
_	DEMAND LOAD (CONT		_			7.984	6.964	-					
_	TOTAL DEMAND LOAD (CONTINUOUS + NONCONTINUOUS), KVA:					67	948	-					
_	TOTAL DEMAND LOAD (CONT + NONCONT), AMPS:						58	-					
		SPARE PA		APACIT			000						
			052										

CHANGES ARE INDICATED IN BOLD FONT WITH AN ASTERISK (*). CONNECT NEW RECTIFIERS TO EXISTING 30A/2P BREAKERS, SWITCH OFF UNUSED BREAKERS & RELABEL AS "SPARE". UPDATE PANEL DIRECTORY.

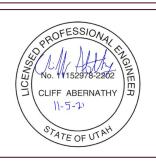








1825 W. WALNUT HILL LANE, SUITE 120 IRVING, TEXAS 75038 1-855-669-5421



DRAWING SCALES ARE INTENDED FOR 11"x17" SIZE PRINTED MEDIA ONLY.

	SUBMITTALS										
REV	DATE	DESCRIPTION	BY								
A	09/23/21	90% CD	DHR								
В	10/21/21	90% CD	DHR								
С	10/25/21	90% CD	SUA								
0	11/01/21	100% CD	SUA								

SITE INFORMATION

SITE ID: UTL02188

RFDS NAME: UTL02188

SITE NAME: DOWNTOWN DRAPER

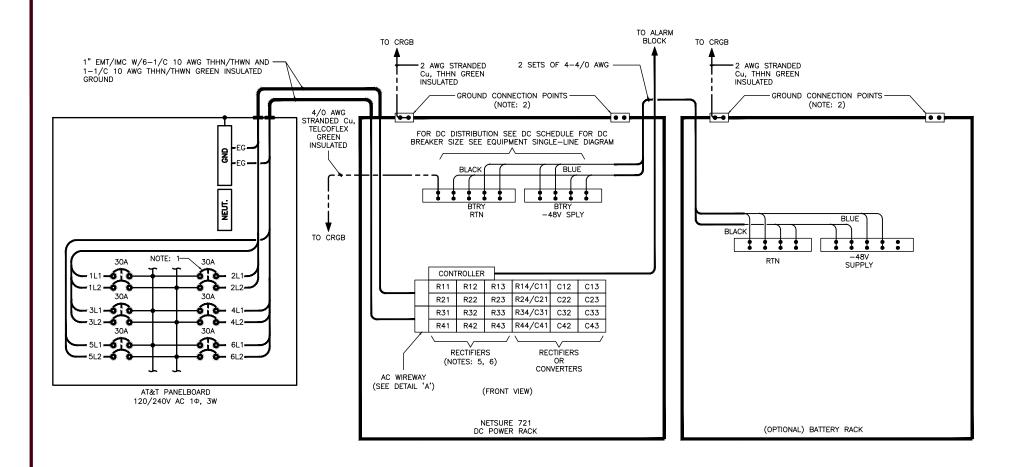
SITE ADDRESS: 11901 SOUTH 700 EAST DRAPER, UT 84020

SHEET DESCRIPTION

AC PANEL SCHEDULE

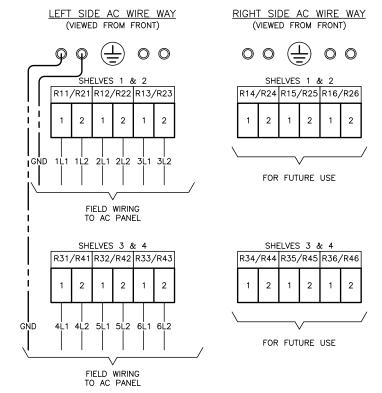
SHEET No.

E-2



- REFER TO AC PANEL SCHEDULE FOR CIRCUIT BREAKER REQUIREMENTS AND POSITION LOCATION.
- 2. GROUND CONNECTION POINT 1/4"-20, 5/8" C-C STUDS AND HARDWARE FOR 2-HOLE TERMINALS.
- 3. REFER TO MANUFACTURERS INSTALLATION GUIDES FOR MOUNTING AND CONNECTION INSTRUCTIONS.

 5. PREFERRED INSTALLATION IS RECTIFIERS IN RECTIFIER POSITIONS 1 THRU 4 AND
- C = CONVERTER
 FIRST DIGIT REPRESENTS SHELF NUMBER. SECOND DIGIT REPRESENTS POSITION NUMBER.
- CONVERTERS IN CONVERTER POSITIONS 2 AND 3.



DETAIL 'A'

RECTIFIER AC INPUT CONNECTIONS

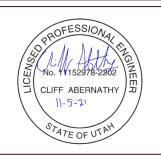
AC SINGLE-LINE DIAGRAM
FOR EMERSON NETSURE TM 7100 DUAL VOLTAGE POWER
AND OPTIONAL BATTERY RACK (-48V PRIMARY/24V SECONDARY)







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DRAWING SCALES ARE INTENDED FOR 11"x17" SIZE PRINTED MEDIA ONLY.

	9	CLIDMITTAL C								
		SUBMITTALS								
REV	DATE	DESCRIPTION	BY							
Α	09/23/21	90% CD	DHR							
В	10/21/21	90% CD	DHR							
С	10/25/21	90% CD	SUA							
0	11/01/21	100% CD	SUA							
	В	A 09/23/21 B 10/21/21 C 10/25/21	A 09/23/21 90% CD B 10/21/21 90% CD C 10/25/21 90% CD							

SITE INFORMATION

SITE ID: UTL02188

RFDS NAME: UTL02188

SITE NAME: DOWNTOWN DRAPER

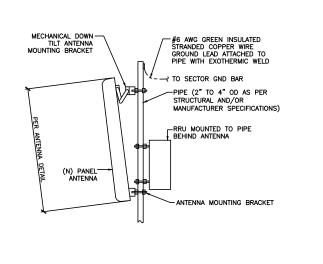
SITE ADDRESS: 11901 SOUTH 700 EAST DRAPER, UT 84020

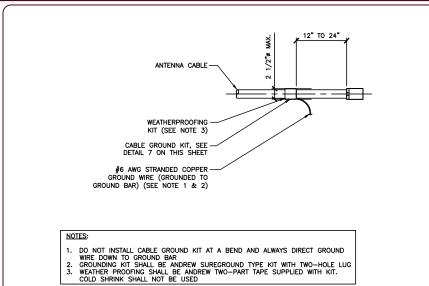
SHEET DESCRIPTION

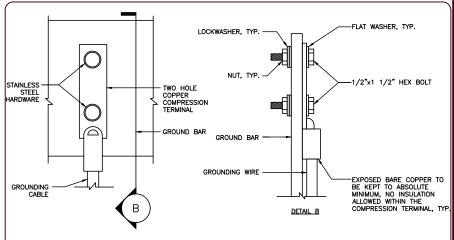
VERTIV DC POWER PLANT SINGLE-LINE DIAGRAM

SHEET No.

E-3









AT&T



1825 W. WALNUT HILL LANE, SUITE 120 IRVING, TEXAS 75038 1-855-669-5421



DRAWING SCALES ARE INTENDED FOR 11"x17" SIZE

PRINTED MEDIA ONLY.											
SUBMITTALS											
REV	DATE	DESCRIPTION	BY								
A	09/23/21	90% CD	DHR								
В	10/21/21	90% CD	DHR								
С	10/25/21	90% CD	SUA								
0	11/01/21	100% CD	SUA								

SITE INFORMATION

SITE ID: UTL02188

RFDS NAME: UTL02188

SITE NAME: DOWNTOWN DRAPER

SITE ADDRESS: 11901 SOUTH 700 EAST DRAPER, UT 84020

SHEET DESCRIPTION

GROUNDING DETAILS

SHEET No.

E-4



1 ANTENNA PIPE MOUNT GROUNDING DETAIL

-T&B CO. "C-TAP", CAT. #54730, CRIMP TYPE PARALLED TAP OR EQUIVALENT -DIRECTION OF BOND TO TURN TO SHORTEST DISTANCE TO MGB #6 AWG GREEN INSULATED STRANDED

COPPER WIRE (UNIT BOND)

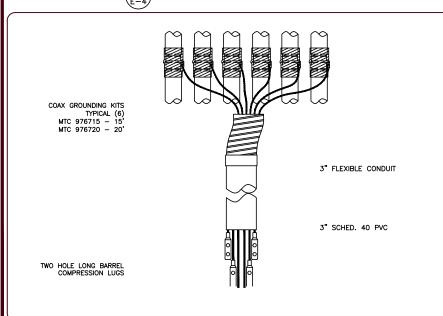
2 CABLE GROUND KIT DETAIL TO LOW NOISE AMPLIFIER UNITS TO TRANSMIT (LNA) (WHEN REQUIRED) AND RECEIVE ANTENNA ANTENNA RX1/RX2 RX1/RX2 COAX JUMPER REQUIRED PER MANUFACTURER'S RECOMMENDATION OR FOR STANDARD GROUNDING KIT, TYP., SEE DETAIL 7 ON THIS SHEET EASE OF CONNECTION (TYP) ANTENNA CABLE TO BTS. TYP. CONNECTOR WEATHERPROOFING KIT, TYP. 6 AWG STRANDED COPPER CONDUCTOR WITH GREEN, 600V, THWN-2 INSULATION GROUNDING BAR, ANDREW PART - GROUNDING BAR, ANDREW PARI
UGBKIT-0424-T (TINNED). A
LOCKBOX IS REQUIRED AT
GRADE TASSCO PART # 351546.
ANTENNA HEIGHT WILL
DETERMINE NUMBER OF
GROUNDING BARS AND THEIR
LOCATION (WHEN REQUIRED) 2 AWG TINNED, SOLID

 \odot \odot \odot \odot \odot \odot \odot \odot \odot \odot \odot 2 000 -• 2.500 -2.875 -3.500 -4.000 -0 .562¢ (8) NO. R4150A4 INSULATOR MANUFACTURER: HARGER OR APPROVED EQUAL - TOWER BRACING MEMBER

"DOUBLING UP" OR "STACKING" OF CONNECTIONS IS NOT PERMITTED.
 OXIDE INHIBITING COMPOUND TO BE USED AT ALL LOCATIONS AND TO BE APPLIED PRIOR TO ADDING HARDWARE.

 $\overbrace{\frac{3}{E-4}} \underline{\text{TYPICAL GROUND LUG CONNECTION DETAIL}}$

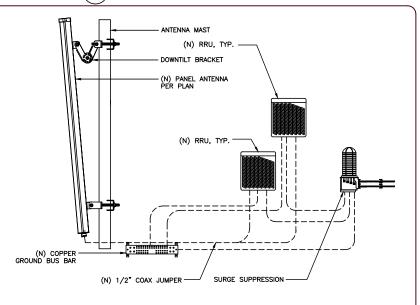
4 GROUNDING WIRE CONNECTION



7 COAX GROUND KIT

 $\overbrace{ \begin{array}{c} 5 \\ E-4 \end{array} }^{\text{ANTENNA}} \text{ GROUNDING BAR CONNECTION DETAIL}$

COPPER CONDUCTOR EXOTHERMIC WELD TO



6 ANTENNA (12") GROUND BAR DETAIL M M TYPE SS TYPE TA TYPE GR TYPE PH TYPE VB °°°° F TYPE NC TYPE XA TYPE GT TYPE PC TYPE GL LUG TYPE LJ TYPE HA TYPE VS TYPE NX1 TYPE RR

RRU GROUNDING DETAIL 9 TYPICAL CADWELD TYPES

TYPE PG