Staff Report

PLANNING DIVISION
DEPARTMENT of COMMUNITY and NEIGHBORHOODS

To: Planning Commission

From: Sara Javoronok, AICP, Senior Planner, 385-226-4448, sara.javoronok@slcgov.com

Date: January 13, 2021

Re: Conditional Use for an AT&T Communications Site (PLNPCM2020-00819)

Conditional Use

PROPERTY ADDRESS: 1550 South 5600 West
MASTER PLAN: Northwest Quadrant Master Plan
ZONING DISTRICT: M-1 - Light Manufacturing zoning district

REQUEST: The petitioner, Brian Sieck of Smartlink, is seeking Conditional Use approval for a new unmanned communications site for AT&T with an 80-foot tall monopole and associated equipment on a property located at 1550 South 5600 West in the M-1 – Light Manufacturing zoning district. Monopoles in the M-1 zone and in excess of 60 feet require Conditional Use review and the site is located within the Inland Port overlay district and all Conditional Uses in the Inland Port require Planning Commission review.

RECOMMENDATION: Based on the information in this staff report, planning staff recommends that the Planning Commission approve the proposed conditional use for the telecommunications facility with 80-foot monopole.

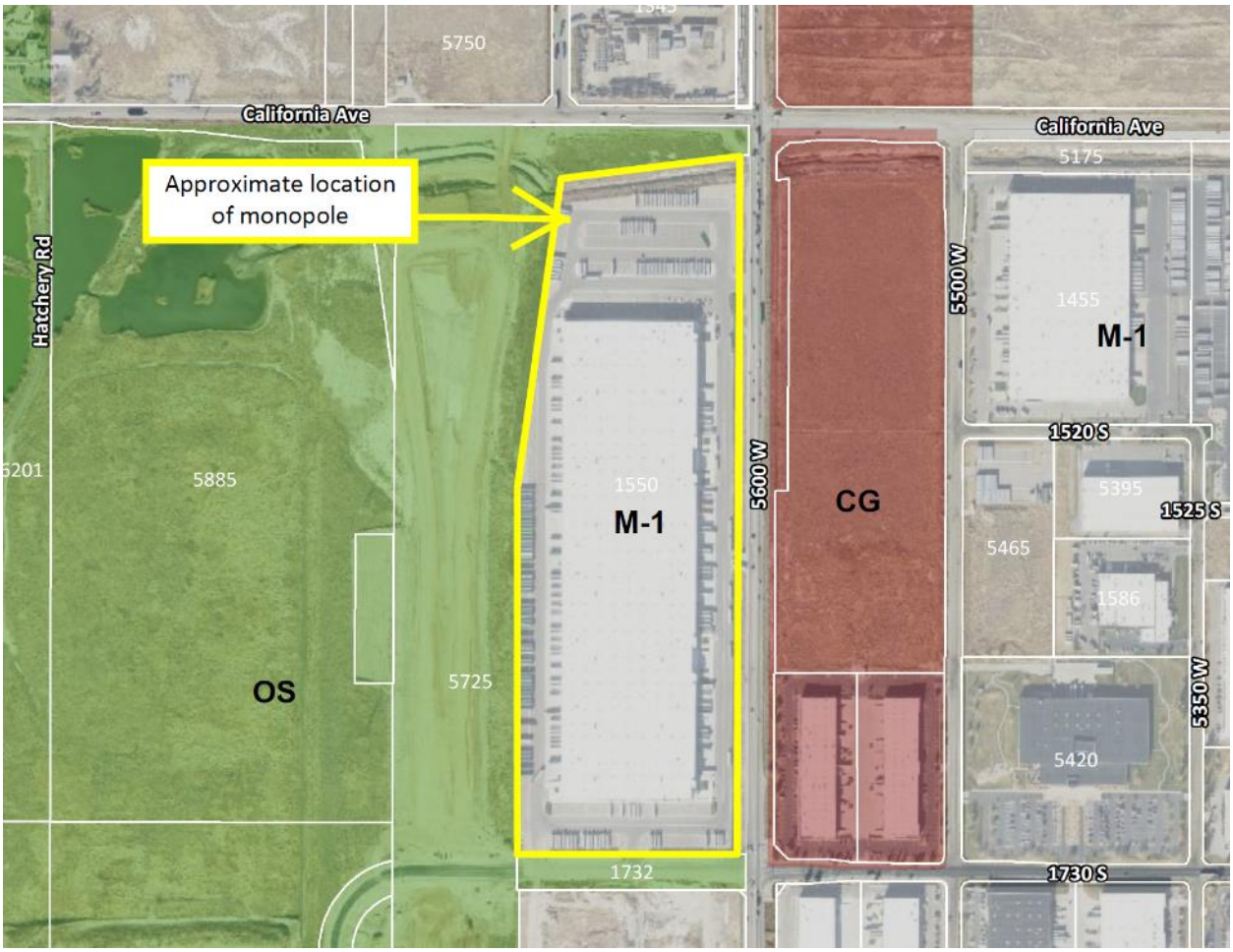
1. Any modifications to the approved plans after the issuance of a building permit must be specifically requested by the applicant and approved by the Planning Division prior to execution.
2. Applicant shall comply with all other department/division requirements.

ATTACHMENTS:

- **A. Vicinity Aerial**
- **B. Applicant's Narrative**
- **C. Site and Facility Plans**
- **D. Existing Conditions and Development Standards**
- **E. Analysis of Standards**

F. Public Process and Comments
G. Department Review Comments

BACKGROUND/PROJECT DESCRIPTION:
The Planning Commission reviewed and approved an application for this site in September 2019 (PLNPCM2020-00542). This approval has expired, and the applicant has reapplied. The subject property is approximately 47 acres in size and a large warehouse building occupies the majority of the site. The proposed wireless facility will be located in an approximately 48' x 50' area in the northwest corner of the site. The property is located in the M-1 – Light Manufacturing zoning district, the Airport Flight Path Protection overlay district, and the Inland Port overlay district. A monopole is a permitted use in the zone. However, per Table 21A.40.090.E of the Zoning Ordinance, all monopoles taller than 60 feet in the M-1 zone require Conditional Use approval, and per section 21A.34.150.B, all Conditional Uses within the Inland Port overlay require Planning Commission approval. The location of the facility in relation to Zoning Ordinance requirements is discussed in more detail in the Key Considerations section below.



KEY CONSIDERATIONS:
The key considerations were identified through the analysis of the project (Attachment E) and department review comments (Attachment G) and are discussed further in the following section of this report.

Consideration 1 – Visual and Neighborhood Impacts: The property has an existing warehouse building that was constructed in 2016 and the remainder of the site is used for long haul trucking storage. The property to the east is vacant and zoned CG (General Commercial), which allows for a wide range of uses. The other surrounding property is zoned OS (Open Space) and is under construction for the future Mountain View Corridor. On the north side of California Ave. the property is zoned M-1 and is used for container storage. The Lee Kay Ponds are located to the west of the future Mountain View Corridor.

Given the industrial nature of the area and activities that take place on adjacent properties, no detrimental impacts on surrounding properties are anticipated. At 80-feet in height, the monopole would be taller than other buildings in the area and visible from other properties. However, the M-1 district generally allows buildings up to 65-feet in height. Railroad offloading structures, such as cranes and lifts up to 85 feet, and distillation column structures used for manufacturing processing purposes may be allowed up to a height of 120-feet, with approval from the Salt Lake City Department of Airports and in compliance with any additional requirements in Airport Flight Path Protection (AFPP) Overlay District. The airport did not have objections to the proposal and requested an avigation easement. Additionally, the antenna will provide service connectivity to those in and traveling through the area.

Approximate location of proposed monopole

View from just west of 5600 West looking west towards the proposed location

View of parking area and warehouse from near the proposed location

Consideration 2 – Inland Port

The property is located within the Inland Port Overlay District, which was adopted in December 2018. The overlay district requires that the Planning Commission review all conditional uses within the Inland Port. 21A.34.150.D.2 provides additional standards for conditional uses within the Inland Port regarding state and federal permits, an impact mitigation plan, and specific standards for conditional uses within the Inland Port. The applicant has identified that additional state and federal permits are not required for this site. The use is exempted from the impact mitigation plan by subsection D.3. D.2.c provides the following:

> *c. Specific Conditional Use Standards For The IP Inland Port Overlay: In addition to the standards of review for conditional uses in chapter 21A.54, "Conditional Uses", of this title in the IP Inland Port Overlay District shall comply with the following:*

(1) Any detrimental impact or effect from the proposed use shall not exceed those that could reasonably be expected to arise from a use that is permitted in the district.
(2) A conditional use that is considered an inland port use shall meet the objectives for an inland port use stated in Utah Code chapter 11-58.

The proposed monopole is a conditional use due to its height. It is 15 feet higher than the permitted height in the district, and a conditional use is required for monopoles greater than 60 feet in height. As detailed above, the M-1 Light Manufacturing District provides exceptions for railroad offloading structures up to 85 feet and distillation column structures up to 120 feet. Since other columnar structures in the district are permitted up to 120 feet, the proposed monopole is unlikely to have a detrimental impact or effect that exceeds other uses that are reasonably expected to arise.

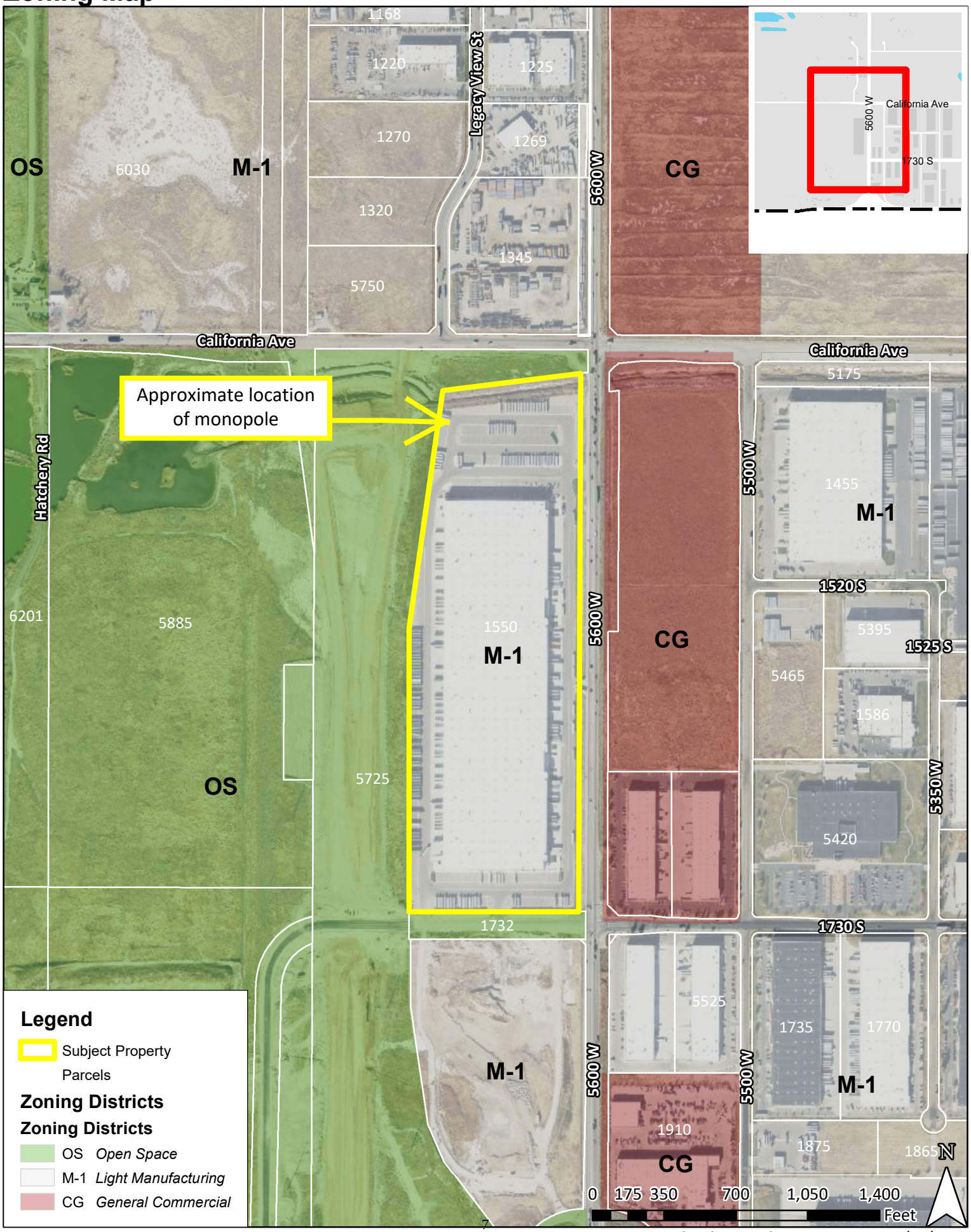
DISCUSSION:
The proposed wireless facility is allowed as a conditional use in the M-1 - Light Industrial zoning district. The use for the wireless telecommunications facility should be approved if reasonable conditions are proposed, or can be imposed, to mitigate the reasonably detrimental effects of the proposed use.

The proposed use meets the Conditional Use standards and Detrimental Effects Determination as analyzed and discussed in Attachment E of this report. No detrimental impacts are anticipated and as such, the conditional use should be approved by the Planning Commission.

NEXT STEPS:
If the conditional use is approved, the applicant will be required to comply with all other department/division requirements and obtain all necessary building permits for the project.

ATTACHMENT A: VICINITY AERIAL

Zoning Map



Salt Lake City Planning Division, 10/26/2020

ATTACHMENT B: APPLICANT'S NARRATIVE

October 15th, 2020
Salt Lake City Planning Division
451 State St
Salt Lake City, UT 84111

Re: AT&T proposal to construct a new unmanned communication site with an 80' monopole

To Whom It May Concern

AT&T is requesting approval of a conditional use permit for a new unmanned communication site 1550 South 5600 West in Salt Lake City. This property is zoned Industrial and is used for long-haul trucking storage. The property to the West and North of the site is industrial. The property to the East across 1300 West is commercial as is the property to the South. These property owners were not contacted pertaining to this proposal for an unmanned communication site.

This new site will consist of an 80' monopole with 12 antennas, 18 remote radio heads and a microwave dish. This site will be constructed within a 48' x 50' site area enclosed with a six-foot chain link fence and three strands of barbed wire. All power lines will be brought into the site below grade and tower climbing pegs will be remove at least 20' above grade. There will also be a walk-in equipment cabinet that is approximately 8' x 8' that will be located within the fenced site area. An emergency back -up 30kw diesel generator will also be installed.

This site is located in an industrial area in the western portion of Salt Lake. The proposal fits the zoning code under Section 212A.40.090: Antenna Regulations, part E. Wireless Telecommunications Facilities, 2.d: Monopole with Antennas and Antenna Support Structure Greater Than Two Feet in Width.

The proposal is to install twelve (12) eight-foot antennas with a tip height of 79' on this 80' tower. The horizontal width will not exceed the 13' distance as stated in the code. This site has no residential zone within 300' of the property. The tower is located at least 130' from the North property line and 35' from the West or rear property line.

This unmanned communication site will be operating 24 hours per day, 7 days per week. There will be no employees on site however, a site technician will visit the site once every few months. There is no need for additional parking places as this is an unmanned communication site.

Brian Sieck
Real Estate Specialist
Smartlink
c. 505.410.1893

ATTACHMENT C: SITE AND FACILITY PLANS

PROJECT TEAM

APPLICANT:	
COMPANY:	AT&T
ADDRESS:	161 INVERNESS DRIVE W, 2ND FLOOR
CITY, STATE, ZIP:	ENGLEWOOD, CO 80112
SITE ACQUISITION/ZONING:	
COMPANY:	SMARTLINK LLC
ADDRESS:	1997 ANNAPOLIS EXCHANGE PARKWAY, SUITE 200
CITY, STATE, ZIP:	ANNAPOLIS, MD 21401
CONTACT:	DOUG KOFFORD
PHONE:	(425) 306-7886
EMAIL:	DOUGLAS.KOFFORD@SMARTLINKLLC.COM
ARCHITECT & ENGINEER:	
COMPANY:	TRYLON TSF
ADDRESS:	1825 W. WALNUT HILL LANE, SUITE 120
CITY, STATE, ZIP:	IRVING, TX 75038
CONTACT:	KATYA SERAVALLE
PHONE:	1-855-669-5421
EMAIL:	KATYA.SERAVALLE@TRYLON.COM

GENERAL NOTES

DO NOT SCALE DRAWINGS

CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT/ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. A TECHNICIAN WILL VISIT THE SITE AS REQUIRED FOR ROUTINE MAINTENANCE. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT DISTURBANCE OR EFFECT ON DRAINAGE; NO SANITARY SEWER SERVICE, PORTABLE WATER, OR TRASH DISPOSAL IS REQUIRED, NO COMMERCIAL SIGNAGE AND NO LANDSCAPING IS PROPOSED

PROJECT INFORMATION

SITE ADDRESS:	1550 SOUTH 5600 WEST, SALT LAKE CITY, UT 84104
PARCEL NUMBER (APN):	14142260010000
PARCEL OWNER:	LANDMARK WEST LLC,
STRUCTURE TYPE:	80'-0" MONOPOLE
SITE TYPE:	NEW SITE BUILD
TOWER OWNER:	AT&T 161 INVERNESS DRIVE W, 2 ND FLOOR ENGLEWOOD, CO 80112
TOWER SITE ID:	UTL01221
LATITUDE (NAD 83):	40.73923139° / 40° 44' 21.233" N
LONGITUDE (NAD 83):	-112.0275458° / 112° 01' 39.2" W
GROUND ELEVATION:	4227'± (AMSL)
OCCUPANCY GROUP:	UNMANNED
TYPE OF CONSTRUCTION:	II-B
COUNTY:	SALT LAKE COUNTY
ZONING JURISDICTION:	SALT LAKE CITY
ZONING CLASSIFICATION:	M-1
AT&T LEASE AREA:	2292.7 SQ. FT.
PROPOSED USE:	UNMANNED TELECOMMUNICATIONS FACILITY
HANDICAP REQUIREMENTS:	FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS NOT REQUIRED.
POWER PROVIDER:	ROCKY MOUNTAIN POWER
TELCO PROVIDER:	LNS

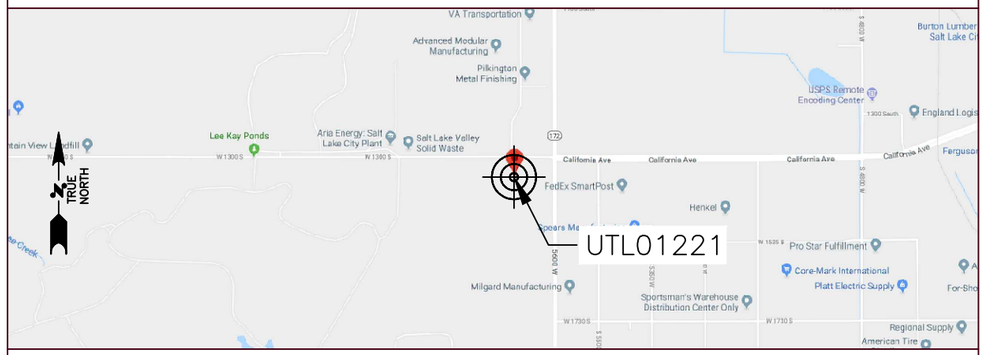
811 Know what's below. Call before you dig.

TO OBTAIN LOCATION OF PARTICIPANTS UNDERGROUND FACILITIES BEFORE YOU DIG IN UTAH, CALL BLUE STAKES OF UTAH
TOLL FREE: 1-800-662-4111 OR www.bluestakes.org
UTAH STATUTE REQUIRES MIN OF 2 WORKING DAYS NOTICE BEFORE YOU EXCAVATE

AT&T

PROJECT: AT&T NEW BUILD
SITE #: UTL01221
SITE NAME: 1300 S 5600 W
FA#: 14431264
USID: 225844
PACE#: MRUTH027205/MRUTH029873 MRUTH029773/MRUTH029828 MRUTH029807
SITE ADDRESS: 1550 SOUTH 5600 WEST, SALT LAKE CITY, UT 84104
JURISDICTION: SALT LAKE CITY

VICINITY MAP



DRIVING DIRECTIONS

FROM SALT LAKE CITY INTERNATIONAL AIRPORT, 776 N TERMINAL DR, SALT LAKE CITY, UT 84122, USA:

TAKE CROSSBAR RD AND TERMINAL DR TO 4000 W. HEAD NORTHEAST ON N 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. KEEP RIGHT. CONTINUE ONTO CROSSBAR RD. TAKE THE RAMP ONTO TERMINAL DR. KEEP RIGHT TO STAY ON TERMINAL DR, 0.5 MI. DRIVE TO CALIFORNIA AVE. CONTINUE ONTO 4000 W. TURN RIGHT ONTO CALIFORNIA AVE.

BUILDING CODES

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

1. 2018 INTERNATIONAL BUILDING CODE
2. 2018 INTERNATIONAL FIRE CODE
3. 2018 NATIONAL RESIDENTIAL CODE
4. 2000 – LIGHTNING PROTECTION CODE
5. AMERICAN CONCRETE INSTITUTE (ACI) 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
6. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), MANUAL OF STEEL CONSTRUCTION, ASD, NINTH EDITION
7. TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-G, STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWER AND ANTENNA SUPPORTING STRUCTURES
8. TIA 607, COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS
9. TELCORDIA GR-1275, GENERAL INSTALLATION REQUIREMENTS
10. TELCORDIA GR-1503, COAXIAL CABLE CONNECTIONSN
11. ANSI T1.311, FOR TELECOM – DC POWER SYSTEMS – TELECOM, ENVIRONMENTAL PROTECTION

FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE REQUIREMENT SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND A SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.

RFDS DATA

RFDS ID: 2596699 DATED: 10/08/2018
REVISION: N/A VERSION: 1.00
UPDATED BY: sa111v
DATE/TIME UPDATED: 11/29/2018 @ 12:22:04 PM

NUMBER OF SECTORS:	3
NUMBER OF ANTENNAS:	6
NUMBER OF RRHs:	15
NUMBER OF FIBER/DC SQUIDS:	3
NUMBER OF FIBER TRUNK CABLES:	3
NUMBER OF DC TRUNK CABLES:	6

APPROVALS

AT&T (RF): _____ DATE: _____

AT&T (CONST): _____ DATE: _____

AT&T (SAM): _____ DATE: _____

PROPERTY OWNER: _____ DATE: _____

PROJECT SCOPE

☒ 1C ☒ 3C ☒ 5C ☐ 4T4R ☐ 2ND RRH ADD

☒ 2C ☒ 4C ☒ 6C ☐ RRH SWAP

PROJECT DESCRIPTION

THIS PROJECT WILL BE COMPRISED OF:

PROPOSED 80'-0" MONOPOLE SCOPE OF WORK:

- PROPOSED (6) ANTENNAS, (2) PER SECTOR
- PROPOSED (15) RRH'S, (5) PER SECTOR
- PROPOSED (3) AT&T VFA12-M3-WLL ANTENNA MOUNT (1) PER SECTOR
- PROPOSED (3) RAYCAP SURGE SUPPRESSOR
- PROPOSED (3) FIBER LINES
- PROPOSED (6) DC POWER LINES

PROPOSED AT&T GROUND SCOPE OF WORK:

- PROPOSED (1) AT&T WALK-IN-CABINET
- PROPOSED (1) 30kW DIESEL GENERATOR
- PROPOSED 2' WIDE ICE BRIDGE
- PROPOSED AT&T GPS ANTENNA
- PROPOSED 1-TON HVAC WALL MOUNT UNIT

SHEET INDEX

SHEET #	DESCRIPTION	REVISION #
T-1	TITLE SHEET	0
T-2	GENERAL NOTES	0
A-1	OVERALL SITE PLAN	0
A-1.1	GENERAL NOTES & LEGAL DESCRIPTION	0
A-2	ENLARGED SITE PLAN	0
A-3	EQUIPMENT PLAN	0
A-4	ANTENNA LAYOUT AND SCHEDULE	0
A-5	ELEVATIONS	0
D-6	DETAILS	0
D-7	DETAILS	0
D-8	DETAILS	0
D-9	WALK-IN-CABINET DETAILS	0
D-10	GENERATOR DETAILS	0
D-11	DETAILS	0
D-12	DETAILS	0
D-13	FOUNDATION DETAILS	0
D-14	ICE BRIDGE DETAIL	0
E-1	SWIC PANEL SCHEDULE	0
E-2	SINGLE LINE DIAGRAM AND FAULT CALCULATIONS	0
G-1	GROUNDING PLAN	0
G-2	GROUNDING DETAILS	0
G-3	GROUNDING DETAILS	0

AT&T
161 INVERNESS DRIVE W, 2ND FLOOR
ENGLEWOOD, CO 80112

smartlink
1997 ANNAPOLIS EXCHANGE PARKWAY, SUITE 200
ANNAPOLIS, MD 21401

Trylon
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	08/02/19	90% CD	SKS
B	01/09/20	90% CD	SKS
C	01/16/20	90% CD	PTN
0	01/21/20	100% CD	PTN

REGISTERED PROFESSIONAL ENGINEER
No. 5088359-2202
KIRK REED HALL
STATE OF UTAH

1-21-2020

SITE INFORMATION

LTE 1C/2C/3C/4C/5C/6C

UTL01221

1300 S 5600 W

FA#: 14431264

SITE ADDRESS:

1550 SOUTH 5600 WEST, SALT LAKE CITY, UT 84104

SALT LAKE COUNTY

SHEET DESCRIPTION

TITLE SHEET

SHEET NO.

T-1

GENERAL NOTES

GENERAL CONSTRUCTION

1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:
   - 1.1. CONTRACTOR – T.B.D
   - 1.2. SUB–CONTRACTOR – GENERAL CONTRACTOR (CONSTRUCTION)
   - 1.3. OWNER – AT&T MOBILITY
   - 1.4. OEM – ORIGINAL EQUIPMENT MANUFACTURER
2. ALL SITE WORK SHALL BE AS INDICATED ON THE DRAWINGS AND PROJECT SPECIFICATIONS.
3. GENERAL CONTRACTOR SHALL VISIT THE SITE AND SHALL FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING THE PROPOSED WORK AND SHALL MAKE PROVISIONS. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH ALL CONTRACT DOCUMENTS, FIELD CONDITIONS, DIMENSIONS, AND CONFIRMING THAT THE WORK MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
4. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. SUBCONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK.
5. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
6. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
7. THE PLANS ARE NOT TO BE SCALED. THESE PLANS ARE INTENDED TO BE A DIAGRAMMATIC OUTLINE ONLY UNLESS OTHERWISE NOTED. DIMENSIONS SHOWN ARE TO FINISH SURFACES UNLESS OTHERWISE NOTED. SPACING BETWEEN EQUIPMENT IS THE MINIMUM REQUIRED CLEARANCE. THEREFORE, IT IS CRITICAL TO FIELD VERIFY DIMENSIONS, SHOULD THERE BE ANY QUESTIONS REGARDING THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A CLARIFICATION FROM THE ENGINEER PRIOR TO PROCEEDING WITH THE WORK. DETAILS ARE INTENDED TO SHOW DESIGN INTENT. MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF WORK AND PREPARED BY THE ENGINEER PRIOR TO PROCEEDING WITH WORK.
8. THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
9. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE ENGINEER PRIOR TO PROCEEDING.
10. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF WORK AREA, ADJACENT AREAS AND BUILDING OCCUPANTS THAT ARE LIKELY TO BE AFFECTED BY THE WORK UNDER THIS CONTRACT. WORK SHALL CONFORM TO ALL OSHA REQUIREMENTS AND THE LOCAL JURISDICTION.
11. GENERAL CONTRACTOR SHALL COORDINATE WORK AND SCHEDULE WORK ACTIVITIES WITH OTHER DISCIPLINES.
12. ERECTION SHALL BE DONE IN A WORKMAN–LIKE MANNER BY COMPETENT EXPERIENCED WORKMAN IN ACCORDANCE WITH APPLICABLE CODES AND THE BEST ACCEPTED PRACTICE. ALL MEMBERS SHALL BE LAID PLUMB AND TRUE AS INDICATED ON THE DRAWINGS.
13. SEAL PENETRATIONS THROUGH FIRE RATED AREAS WITH UL LISTED MATERIALS APPROVED BY LOCAL JURISDICTION. SUBCONTRACTOR SHALL KEEP AREA CLEAN, HAZARD FREE, AND DISPOSE OF ALL DEBRIS.
14. WORK PREVIOUSLY COMPLETED IS REPRESENTED BY LIGHT SHADED LINES AND NOTES. THE SCOPE OF WORK FOR THIS PROJECT IS REPRESENTED BY DARK SHADED LINES AND NOTES. SUBCONTRACTOR SHALL NOTIFY THE GENERAL CONTRACTOR OF ANY EXISTING CONDITIONS THAT DEVIATE FROM THE DRAWINGS PRIOR TO BEGINNING CONSTRUCTION.
15. CONTRACTOR SHALL PROVIDE WRITTEN NOTICE TO THE CONSTRUCTION MANAGER 48 HOURS PRIOR TO COMMENCEMENT OF WORK.
16. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
17. THE CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
18. GENERAL CONTRACTOR SHALL COORDINATE AND MAINTAIN ACCESS FOR ALL TRADES AND SUBCONTRACTORS TO THE SITE AND/OR BUILDING.
19. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SECURITY OF THE SITE FOR THE DURATION OF CONSTRUCTION UNTIL JOB COMPLETION.
20. THE GENERAL CONTRACTOR SHALL MAINTAIN IN GOOD CONDITION ONE COMPLETE SET OF PLANS WITH ALL REVISIONS, ADDENDA, AND CHANGE ORDERS ON THE PREMISES AT ALL TIMES.
21. THE GENERAL CONTRACTOR AND SUBCONTRACTOR SHALL PROVIDE PORTABLE FIRE EXTINGUISHERS WITH A RATING OF NOT LESS THAN 2A TO 2A:10B:C AND SHALL BE WITHIN 25 FEET OF TRAVEL DISTANCE TO ALL PORTIONS OF WHERE THE WORK IS BEING COMPLETED DURING CONSTRUCTION.
22. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY THE ENGINEER. EXTREME CAUTION SHOULD BE USED BY THE SUBCONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. SUBCONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS SHALL INCLUDE BUT NOT BE LIMITED TO: A) FALL PROTECTION, B) CONFINED SPACE, C) ELECTRICAL SAFETY, AND D) TRENCHING & EXCAVATION.
23. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED, CAPPED, PLUGGED OR OTHERWISE DISCONNECTED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, AS DIRECTED BY THE RESPONSIBLE ENGINEER, AND SUBJECT TO THE APPROVAL OF THE OWNER AND/OR LOCAL UTILITIES.
24. THE AREAS OF THE OWNER'S PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION.
25. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO THE EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE FEDERAL AND LOCAL JURISDICTION FOR EROSION AND SEDIMENT CONTROL.
26. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUNDING. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
27. THE SUBGRADE SHALL BE BROUGHT TO A SMOOTH UNIFORM GRADE AND COMPACTED TO 95 PERCENT STANDARD PROCTOR DENSITY UNDER PAVEMENT AND STRUCTURES AND 80 PERCENT STANDARD PROCTOR DENSITY IN OPEN SPACE. ALL TRENCHES IN PUBLIC RIGHT OF WAY SHALL BE BACKFILLED WITH FLOWABLE FILL OR OTHER MATERIAL PRE–APPROVED BY THE LOCAL JURISDICTION.
28. ALL NECESSARY RUBBISH, STUMPS, DEBRIS, STICKS, STONES, AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LAWFUL MANNER.
29. ALL BROCHURES, OPERATING AND MAINTENANCE MANUALS, CATALOGS, SHOP DRAWINGS, AND OTHER DOCUMENTS SHALL BE TURNED OVER TO THE GENERAL CONTRACTOR AT COMPLETION OF CONSTRUCTION AND PRIOR TO PAYMENT.
30. CONTRACTOR SHALL SUBMIT A COMPLETE SET OF AS–BUILT REDLINES TO THE GENERAL CONTRACTOR UPON COMPLETION OF PROJECT AND PRIOR TO FINAL PAYMENT.
31. CONTRACTOR SHALL LEAVE PREMISES IN A CLEAN CONDITION.
32. THE PROPOSED FACILITY WILL BE UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SEWER SERVICE, AND IS NOT FOR HUMAN HABITAT (NO HANDICAP ACCESS REQUIRED).
33. OCCUPANCY IS LIMITED TO PERIODIC MAINTENANCE AND INSPECTION, APPROXIMATELY 2 TIMES PER MONTH, BY AT&T TECHNICIANS.
34. NO OUTDOOR STORAGE OR SOLID WASTE CONTAINERS ARE PROPOSED.
35. ALL MATERIAL SHALL BE FURNISHED AND WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST REVISION OF AT&T GROUNDING STANDARD "GROUNDING AND BONDING REQUIREMENTS FOR NETWORK FACILITIES (ATT–TP–76416) AND "TECHNICAL SPECIFICATION FOR CONSTRUCTION OF GSM/GPRS WIRELESS SITES" (ATT–TP–76300). IN CASE OF A CONFLICT BETWEEN THE CONSTRUCTION SPECIFICATION AND THE DRAWINGS, THE DRAWINGS SHALL GOVERN.
36. CONTRACTORS SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS REQUIRED FOR CONSTRUCTION. IF CONTRACTOR CANNOT OBTAIN A PERMIT, THEY MUST NOTIFY THE GENERAL CONTRACTOR IMMEDIATELY.
37. CONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
38. INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED FROM SITE VISITS AND/OR DRAWINGS PROVIDED BY THE SITE OWNER. CONTRACTORS SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
39. NO WHITE STROBIC LIGHTS ARE PERMITTED. LIGHTING IF REQUIRED, WILL MEET FAA STANDARDS AND REQUIREMENTS.
40. ALL COAXIAL CABLE INSTALLATIONS TO FOLLOW MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.

ANTENNA MOUNTING

41. DESIGN AND CONSTRUCTION OF ANNTENNA SUPPORTS SHALL CONFORM TO CURRENT ANSI/TIA–222 OR APPLICABLE LOCAL CODES.
42. ALL STEEL MATERIALS SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 "ZINC (HOT–DIP GALVANIZED) COATINGS ON IRON AND STEEL PRODUCTS", UNLESS NOTED OTHERWISE.
43. ALL BOLTS, ANCHORS AND MISCELLANEOUS HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 "ZINC–COATING (HOT–DIP) ON IRON AND STEEL HARDWARE", UNLESS NOTED OTHERWISE.
44. DAMAGED GALVANIZED SURFACES SHALL BE REPAIRED BY COLD GALVANIZING IN ACCORDANCE WITH ASTM A780.
45. ALL ANTENNA MOUNTS SHALL BE INSTALLED WITH LOCK WASHERS AND/OR DOUBLE NUTS, AND SHALL BE TORQUED TO MANUFACTURER'S RECOMMENDATIONS.
46. CONTRACTOR SHALL INSTALL ANTENNA PER MANUFACTURER'S RECOMMENDATION FOR INSTALLATION AND GROUNDING.
47. ALL UNUSED PORTS ON ANY ANTENNAS SHALL BE TERMINATED WITH A 50–OHM LOAD TO ENSURE ANTENNAS PERFORM AS DESIGNED.
48. PRIOR TO SETTING ANTENNA AZIMUTHS AND DOWNTILTS, ANTENNA CONTRACTOR SHALL CHECK THE ANTENNA MOUNT FOR TIGHTNESS AND ENSURE THAT THEY ARE PLUMB. ANTENNA AZIMUTHS SHALL BE SET FROM TRUE NORTH AND BE ORIENTED WITHIN ±3° AS DEFINED BY THE RFDS. ANTENNA DOWNTILTS SHALL BE WITHIN ±0.5° AS DEFINED BY THE RFDS. REFER TO ND–00246.
49. JUMPERS FROM THE TOWER MOUNTED AMPLIFIERS MUST TERMINATE TO OPPOSITE POLARIZATIONS IN EACH SECTOR.
50. CONTRACTOR SHALL RECORD THE SERIAL NUMBER, SECTOR, AND POSITION OF EACH ACTUATOR INSTALLED AT THE ANTENNAS AND PROVIDE THE INFORMATION TO AT&T.
51. TOWER MOUNTED AMPLIFIERS SHALL BE MOUNTED ON PIPE DIRECTLY BEHIND ANTENNAS AS CLOSE TO ANTENNA AS FEASIBLE IN A VERTICAL POSITION.
52. ANTENNAS SHALL HAVE A 3'–0" MINIMUM CENTER–TO–CENTER HORIZONTAL SEPARATION.

TORQUE REQUIREMENTS

53. ALL RF CONNECTIONS SHALL BE TIGHTENED BY A TORQUE WRENCH.
54. A TORQUE MARK FORMING A CONTINUOUS STRAIGHT LINE IS TO BE MADE IN THE FOLLOWING APPLICATIONS:
    - A. RF CONNECTIONS – MARK BOTH SIDES OF THE CONNECTOR
    - B. GROUNDING AND ANTENNA HARDWARE – MARK ON THE NUT SIDE OF THE BOLT, STARTING FROM THE THREADS TO THE SOLID SURFACE. SOLID SURFACE EXAMPLES INCLUDE A GROUND BAR OR ANTENNA BRACKET METAL.
55. ALL 8M ANTENNA HARDWARE SHALL BE TIGHTENED TO 9 LB–FT (12 NM).
56. ALL 12M ANTENNA HARDWARE SHALL BE TIGHTENED TO 43 LB–FT (58 NM).
57. ALL GROUNDING HARDWARE SHALL BE TIGHTENED UNTIL THE LOCK WASHER COLLAPSES AND THE GROUNDING HARDWARE IS NO LONGER LOOSE.
58. ALL DIN TYPE CONNECTIONS SHALL BE TIGHTENED TO 18–22 LB–FT (24.4 – 29.8 NM).
59. ALL N TYPE CONNECTIONS SHALL BE TIGHTENED TO 15–20 LB–IN (1.7 – 2.3 NM).

FIBER & POWER CABLE MOUNTING

60. THE FIBER OPTIC TRUNK CABLES SHALL BE INSTALLED IN CONDUITS, CHANNEL CABLE TRAYS, OR CABLE TRAY. WHEN INSTALLING FIBER OPTIC TRUNK CABLES INTO A CABLE TRAY SYSTEM, THEY SHALL BE INSTALLED INTO AN INTER DUCT AND A PARTITION BARRIER SHALL BE INSTALLED BETWEEN THE 600 VOLT CABLES AND THE INTER DUCT IN ORDER TO SEGREGATE CABLE TYPES. OPTIC FIBER TRUNK CABLES SHALL HAVE APPROVED CABLE RESTRAINTS EVERY (60) SIXTY FEET AND SHALL BE SECURELY FASTENED TO THE CABLE TRAY SYSTEM. NFPA 70 (NEC) ATRICLE 770 RULES SHALL APPLY.
61. TYPE TC–ER CABLES SHALL BE INSTALLED INTO CONDUITS OR CABLE TRAYS, AND SHALL BE SECURED AT INTERVALS NOT EXCEEDING (6) FEET. WHERE TYPE TC–ER CABLES ARE NOT SUBJECT TO PHYSICAL DAMAGE, CABLES SHALL BE PERMITTED TO MAKE A TRANSITION BETWEEN CONDUITS OR CABLE TRAYS THAT ARE SERVICING UTILIZATION EQUIPMENT OR DEVICES. A TRANSITION DISTACE EXCEEDING (6) FEET REQUIRES CONTINUOUS SUPPORTING. NFPA 70 (NEC) ARTICLES 336 AND 392 RULES SHALL APPLY.
62. WHEN INSTALLING OPTIC FIBER TRUNK CABLES OR TYPE TC–ER CABLES INTO CONDUITS, NFPA 70 (NEC) ARTICLE 300 RULES SHALL APPLY.

COAXIAL CABLE NOTES

63. TYPES AND SIZES OF THE ANTENNA CABLES ARE BASED ON ESTIMATED LENGTHS. PRIOR TO ORDERING CABLE, CONTRACTOR SHALL VERIFY ACTUAL LENGTH BASED ON CONSTRUCTION LAYOUT AND NOTIFY THE PROJECT MANAGER IF ACTUAL LENGTHS EXCEED ESTIMATED LENGTHS.
64. CONTRACTOR SHALL VERIFY THAT THE DOWNTILT OF EACH ANTENNA IS WITHIN +/– 0.5 DEGREES OF SPECIFICATION WITH AN OCI APPROVED DIGITAL LEVEL.
65. CONTRACTOR SHALL CONFIRM COAX COLOR CODING PRIOR TO CONSTRUCTION. REFER TO "ANTENNA SYSTEM LABELING STANDARD" ND–00027 LATEST VERSION.
66. ALL JUMPERS TO THE ANTENNAS FROM THE MAIN TRANSMISSION LINE SHALL BE 1/2" DIA. LDF AND SHALL NOT EXCEED 6'–0".
67. ALL COAXIAL CABLE SHALL BE SECURED TO THE DESIGNED SUPPORT STRUCTURE, IN AN APPROVED MANNER, NOT TO EXCEED 4'–0" OC.
68. COAXIAL CABLE SHALL BE SECURED TO THE DESIGNATED SUPPORT STRUCTURE(S) PER MANUFACTURER'S SPECIFICATIONS.
69. CONTRACTOR SHALL FOLLOW ALL MANUFACTURER'S RECOMMENDATIONS REGARDING BOTH THE INSTALLATION AND GROUNDING OF ALL COAXIAL CABLES, CONNECTORS, ANTENNAS, AND ALL OTHER EQUIPMENT.
70. CONTRACTOR SHALL WEATHERPROOF ALL ANTENNA CONNECTORS WITH SELF AMALGAMATING TAPE. WEATHERPROOFING SHALL BE COMPLETED IN STRICT ACCORDANCE WITH AT&T STANDARDS.

GENERAL CABLE AND EQUIPMENT NOTES

71. CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY ANTENNA, TMAS, DIPLEXERS, COAX CONFIGURATION, MAKES, AND MODELS PRIOR TO INSTALLATION.
72. ALL CONNECTIONS FOR HANGERS, SUPPORTS, BRACING, ETC. SHALL BE INSTALLED PER TOWER MANUFACTURER'S RECOMMENDATIONS.
73. CONTRACTOR SHALL REFERENCE THE TOWER STRUCTURAL ANALYSIS/DESIGN DRAWINGS FOR DIRECTIONS ON CABLE DISTRIBUTION/ROUTING.
74. AFTER INSTALLATION AND FINAL CONNECTIONS ARE MADE, ALL OUTDOOR RF CONNECTORS/CONNECTIONS SHALL BE WEATHERPROOFED, EXCEPT THE RET CONNECTORS, USING BUTYL TAPE OR OTHER APPROVED WEATHERPROOFING METHODS PER AT&T SPECIFICATIONS. BUTYL TAPE SHALL HAVE A MINIMUM OF ONE–HALF TAPE WIDTH OVERLAP ON EACH TURN AND EACH LAYER SHALL BE WRAPPED THREE TIMES. WEATHERPROOFING SHALL BE SMOOTH WITHOUT BUCKLING. BUTYL BLEEDING IS NOT ALLOWED. SELF BONDING TAPE AND PLASTIC ENCLOSURES ARE PERMITTED PER ATT–002–290–041, SECTION 7.
75. IF REQUIRED TO PAINT ANTENNAS AND/OR COAX:
    - A. TEMPERATURE SHALL BE ABOVE 50 DEGREES FAHRENHEIT.
    - B. PAINT COLOR MUST BE APPROVED BY BUILDING OWNER/LANDLORD.
    - C. FOR REGULATED TOWERS, FAA/FCC APPROVED PAINT IS REQUIRED.
    - D. DO NOT PAINT OVER COLOR CODING OR ON EQUIPMENT MODEL NUMBERS.
76. ALL CABLES SHALL BE GROUNDED WITH COAXIAL CABLE GROUND KITS. FOLLOW THE MANUFACTURER'S RECOMMENDATIONS:
    - A. GROUNDING AT THE ANTENNA LEVEL.
    - B. GROUNDING AT THE MID LEVEL, TOWERS WHICH ARE OVER 200'–0", ADDITIONAL CABLE GROUNDING REQUIRED.
    - C. GROUNDING AT BASE OF TOWER PRIOR TO TURNING HORIZONTAL.
    - D. GROUNDING OUTSIDE THE EQUIPMENT SHELTER AT ENTRY PORT.
    - E. GROUNDING INSIDE THE EQUIPMENT SHELTER AT THE ENTRY PORT.
77. ANTENNA CONTRACTOR SHALL FURNISH AND INSTALL A 10'–0" T–BOOM SECTOR ANTENNA MOUNT INCLUDING ALL HARDWARE, IF APPLICABLE.

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1–855–669–5421

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SUBMITTALS

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REGISTERED PROFESSIONAL ENGINEER
No. 5088359–2202
KIRK REED HALL
STATE OF UTAH

1-21-2020

SITE INFORMATION

LTE 1C/2C/3C/4C/5C/6C

UTL01221

1300 S 5600 W

FA#: 14431264

SITE ADDRESS:

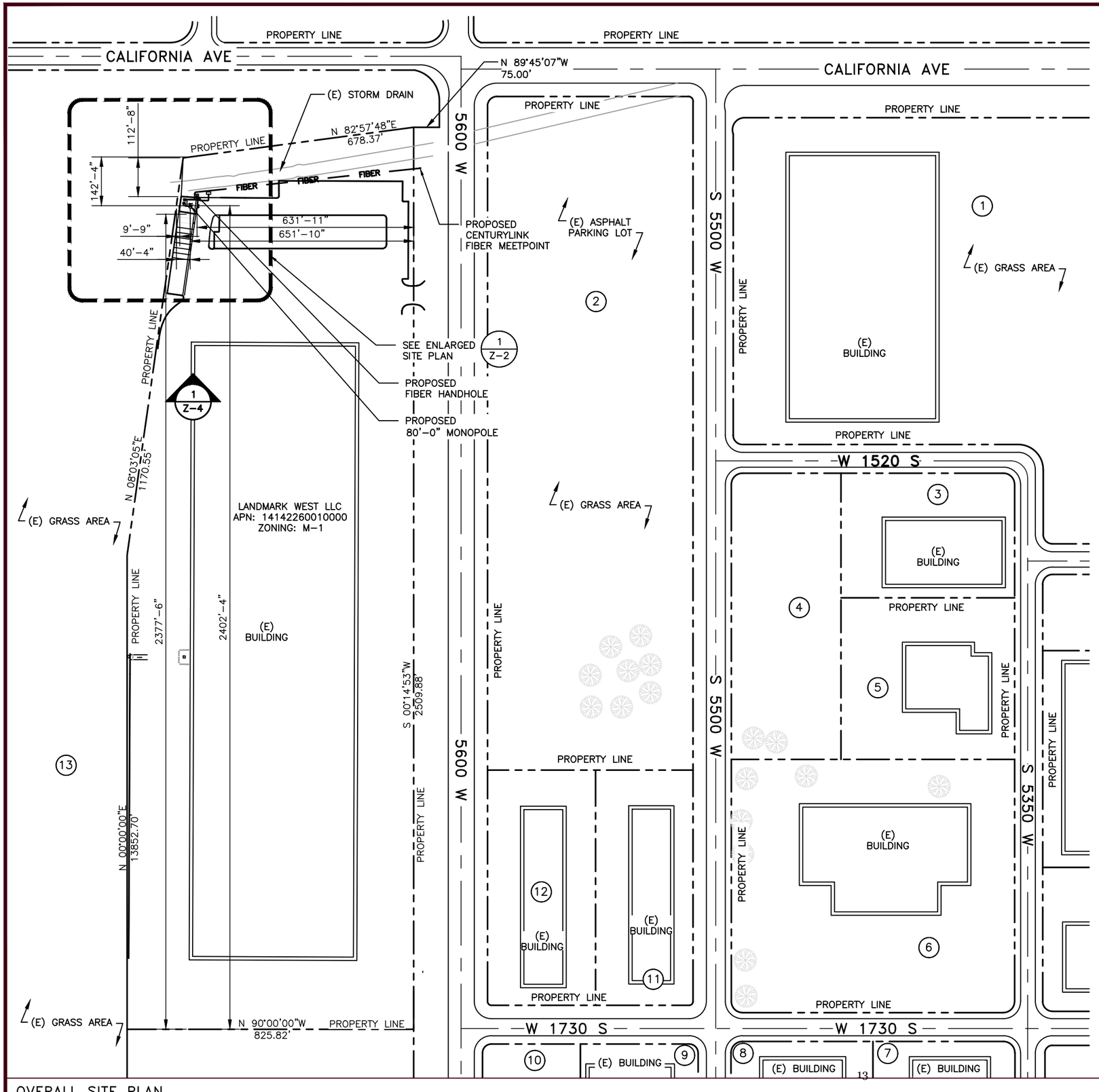
1550 SOUTH 5600 WEST,
SALT LAKE CITY, UT 84104
SALT LAKE COUNTY

SHEET DESCRIPTION

GENERAL NOTES

SHEET NO.

T–2



AERIAL VIEW | 2

LEGEND

EXISTING TREES/SHRUBS	
ACCESS ROAD	
EXISTING BUILDING	
FENCE LINE	—X—
TREE/BUSH LINE	
PROPERTY LINE	
EASEMENT LINE	
UTILITY POLE	
POWER LINE	— POWER —
FIBER LINE	— FIBER —
OVERHEAD WIRE	— O/H—

(#) SEE SHEET A-1.1 FOR APN NUMBER AND PROPERTY OWNER DETAILS

TRUE NORTH

0 75' 150' 300'

SCALE: 1"=300'-0" (11x17)
(OR) 2"=300'-0" (22x34)

OVERALL SITE PLAN | 1

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SALT LAKE CITY, UT 84104
SALT LAKE COUNTY

SHEET DESCRIPTION

OVERALL SITE PLAN

SHEET NO.

A-1

GENERAL NOTES:

1. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES ORDINANCES, LAWS AND REGULATIONS OF ALL MUNICIPALITIES, UTILITIES COMPANY OR OTHER PUBLIC AUTHORITIES.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS THAT MAY BE REQUIRED BY ANY FEDERAL, STATE, COUNTY OR MUNICIPAL AUTHORITIES.
3. THE CONTRACTOR SHALL NOTIFY THE AT&T CONSTRUCTION MANAGER IN WRITING, OF ANY CONFLICT, ERRORS OR OMISSION PRIOR TO THE SUBMISSION OF BIDS OR PERFORMANCE OF WORK. MINOR OMISSIONS OR ERRORS IN THE BID DOCUMENTS SHALL NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY FOR THE OVERALL INTENT OF THESE DRAWINGS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING SITE IMPROVEMENTS PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED AS A RESULT OF CONSTRUCTION OF THIS FACILITY.
5. THE SCOPE OF THE WORK FOR THIS PROJECT SHALL INCLUDE PROVIDING ALL MATERIALS, EQUIPMENT AND LABOR REQUIRED TO COMPLETE THIS PROJECT. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
6. THE CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO SUBMITTING A BID TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
7. CONTRACTOR SHALL MAKE A UTILITY "ONE CALL" TO LOCATE ALL UTILITIES AND NOTIFY UNDERGROUND FACILITIES PROTECTIVE ORGANIZATION AT (800) 424–5555 PRIOR TO EXCAVATION AT SITE.
8. ANY UNDERGROUND UTILITIES OR STRUCTURES THAT EXIST BENEATH THE PROJECT AREA, CONTRACTOR MUST LOCATE IT AND CONTACT THE APPLICANT & THE OWNER'S REPRESENTATIVE.
9. NO SIGNIFICANT NOISE, SMOKE, DUST, OR ODOR WILL RESULT FROM THIS FACILITY.
10. THE FACILITY IS UNMANNED AND NOT INTENDED FOR HUMAN HABITATION (NO HANDICAP ACCESS REQUIRED).
11. THE FACILITY IS UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SANITARY SERVICE.
12. POWER TO THE FACILITY WILL BE MONITORED BY A SEPARATE METER.
13. THERE ARE NO COMMERCIAL SIGNS PROPOSED FOR THIS INSTALLATION.
14. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED IN ANY FILL OR EMBANKMENT.
15. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES, AND WHERE DIRECTED BY UTILITY OWNER. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR PIER DRILLING AROUND OR NEAR UTILITIES.
16. THE AREAS DISTURBED DUE TO CONSTRUCTION ACTIVITY SHALL BE GRADED AND RESTORED PER CODE/LANDLORD REQUIREMENTS.
17. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION, EROSION CONTROL MEASURES SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL, AND COORDINATED WITH THE MUNICIPALITY.
18. UTILITY WARNING TAPE SHALL BE PLACED ABOVE ALL NEW CONDUITS AT MAX 18" DEPTH BELOW GRADE.
19. AT&T CONTRACTOR RESPONSIBILITIES:
    a. INSTALLATION OF POWER AND TELCO CONDUIT FROM MULTI–GANG METER RACK AND TELCO DEMARCATION.
    b. INSTALLATION OF WAVE GUIDE SUPPORT FROM AT&T LEASED AREA TO TOWER BASE.
    c. POWER AND FIBER LINES FROM AT&T GROUND EQUIPMENT TO ANTENNA MOUNT LOCATION ON TOWER.
    d. AT&T ANTENNAS, RRU's AND APPURTENANT AT&T EQUIPMENT TO ANTENNA MOUNTING PLATFORM AT RAD CENTER IN ACCORDANCE WITH AT&T RFDS.

LEGAL DESCRIPTION:

THE LAND REFERRED TO HEREIN IS SITUATED IN THE COUNTY OF SALT LAKE, STATE OF UTAH, AND IS DESCRIBED AS FOLLOWS:

A PARCEL OF LAND LOCATED IN THE NORTHEAST QUARTER AND THE SOUTHEAST QUARTER OF SECTION 14, TOWNSHIP 1 SOUTH, RANGE 2 WEST, SALT LAKE BASE AND MERIDIAN, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT ALONG THE EXISTING WESTERLY RIGHT OF WAY LINE OF 5600 WEST STREET, WHICH IS 150.16 FEET SOUTH 00°14'53" WEST ALONG THE SECTION LINE AND 75.00 FEET NORTH 89°45'07" WEST FROM THE NORTHEAST CORNER OF SAID SECTION 14;

AND RUNNING THENCE SOUTH 00°14'53" WEST 2509.88 FEET;

THENCE SOUTH 00°15'25" WEST 114.96 FEET;

THENCE WEST 825.82 FEET;

THENCE NORTH 1382.70 FEET;

THENCE NORTH 08°03'05" EAST 1170.55 FEET;

THENCE NORTH 82°57'48" EAST 678.37 FEET TO THE POINT OF BEGINNING.

APN NUMBER & PROPERTY OWNER DETAILS

NO:	APN:	PROPERTY OWNER:
1	14131010010000	LANDMARK BUILDING ONE LLC 1455 S 5500 W SALT LAKE, UT 84104
2	14131000100000	PARKWOOD ARIZONA LLC 5552 W 1730 S SALT LAKE, UT 84104
3	14131510030000	SPEARS, ROBERT W; ET AL 5395 W 1520 S SALT LAKE, UT 84104
4	14131510060000	NATOMAS MEADOWS LLC 1575 S 5500 W SALT LAKE, UT 84104
5	14131510050000	CINTAS CORPORATION # 3 1586 S 5350 W SALT LAKE, UT 84104
6	14131510010000	NOVUS DEVELOPMENT CORPORATION 5420 W 1730 S SALT LAKE, UT 84104
7	14133020020000	WESTERN B NORTHWEST UT, LLC 1770 S 5350 W SALT LAKE, UT 84104
8	14133020020000	WESTERN B NORTHWEST UT, LLC 1735 S 5500 W SALT LAKE, UT 84104
9	14133010130000	GOF UTAH, LLC; 32.50% IPP UTAH, LLC; 1775 S 5600 W SALT LAKE, UT 84104
10	14133010120000	GOF UTAH, LLC; 32.50% IPP UTAH, LLC; 1775 S 5600 W SALT LAKE, UT 84104
11	14131520020000	PARKWOOD ARIZONA LLC 1670 S 5500 W SALT LAKE, UT 84104
12	14131520010000	PARKWOOD ARIZONA LLC 5570 W 1730 S SALT LAKE, UT 84104
13	14142000030000	UTAH DEPARTMENT OF TRANSPORTATION 5775 W CALIFORNIA AVE SALT LAKE, UT 84104

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KIRK REED HALL
STATE OF UTAH

1-21-2020

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SALT LAKE COUNTY

SHEET DESCRIPTION

GENERAL NOTES &
LEGAL DESCRIPTION

SHEET NO.

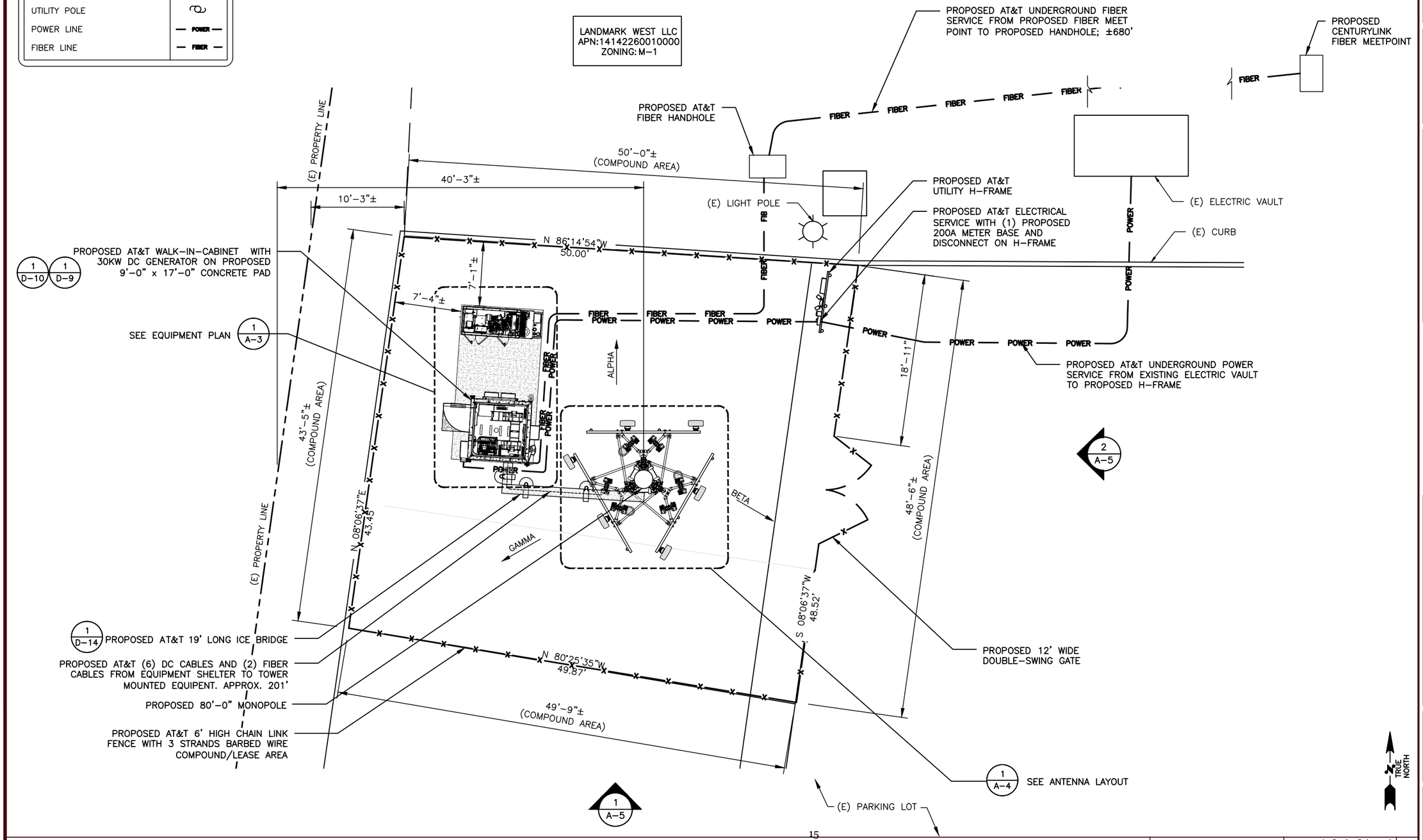
A–1.1

LEGEND

EXISTING TREES/SHRUBS	
ACCESS ROAD	
EXISTING BUILDING	
FENCE LINE	—X—
TREE/BUSH LINE	
PROPERTY LINE	
EASEMENT LINE	
UTILITY POLE	
POWER LINE	POWER
FIBER LINE	FIBER

NOTE:
THE CONTRACTOR MUST FIELD VERIFY ALL MEASUREMENTS AND FIELD CONDITIONS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

NOTE:
ALL DIGGING MUST NOT EXCEED 1FT (12") AND MUST NEVER DISTURB THE STRUCTURAL FABRIC HOLDING THE RETAINING WALL



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SHEET DESCRIPTION

ENLARGED SITE PLAN

SHEET NO.

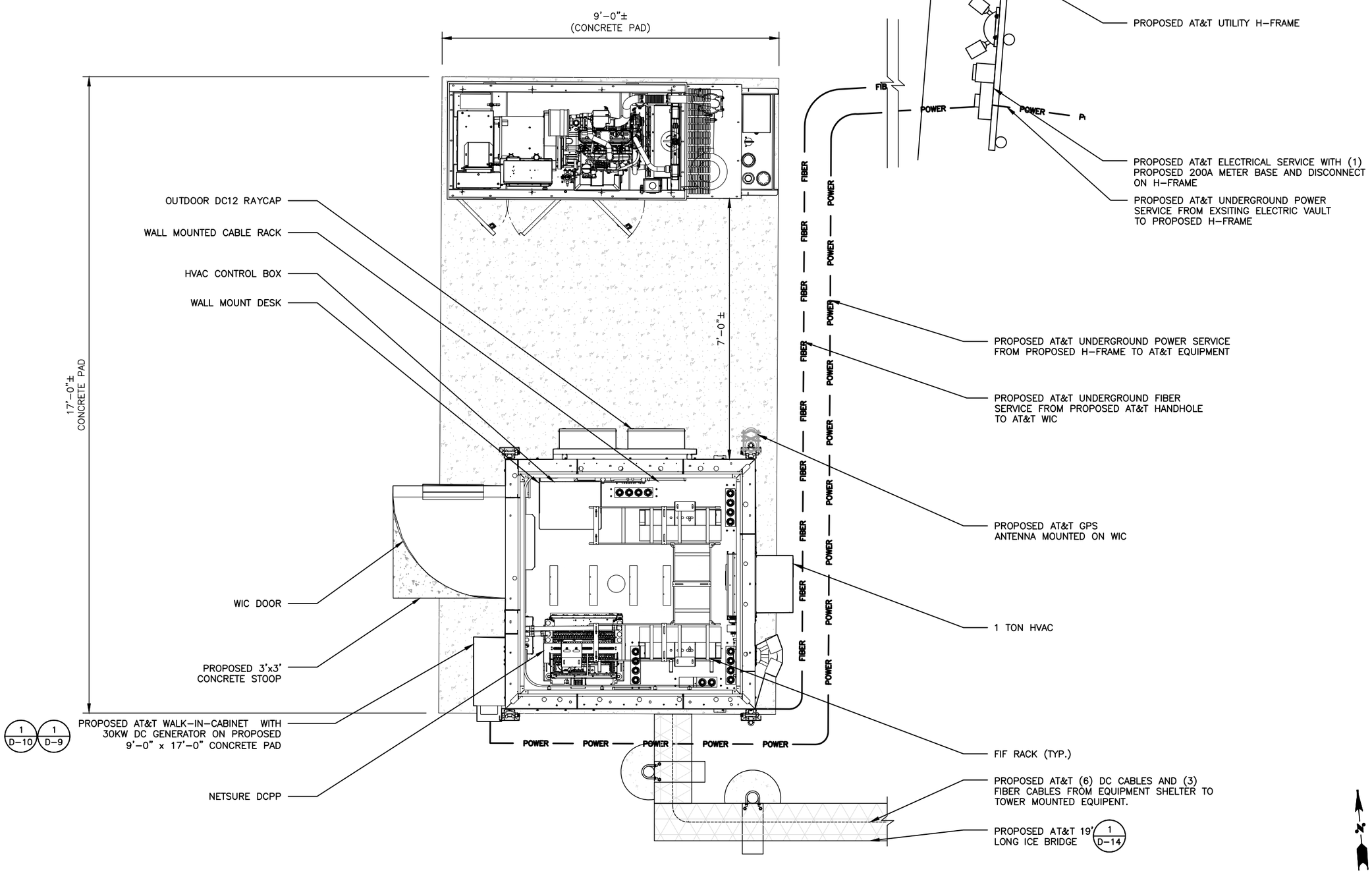
A-2

ENLARGED SITE PLAN

0 3' 6' 12'

SCALE: 3/32"=1'-0" (11x17)
(OR) 3/16"=1'-0" (22x34)

NOTE:
THE CONTRACTOR MUST FIELD VERIFY ALL MEASUREMENTS AND FIELD CONDITIONS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.



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REGISTERED PROFESSIONAL ENGINEER
No. 5088359-2202
KIRK REED HALL
STATE OF UTAH

1-21-2020

SITE INFORMATION

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UTL01221

1300 S 5600 W

FA#: 14431264

SITE ADDRESS:

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SALT LAKE CITY, UT 84104
SALT LAKE COUNTY

SHEET DESCRIPTION

EQUIPMENT PLAN

SHEET NO.

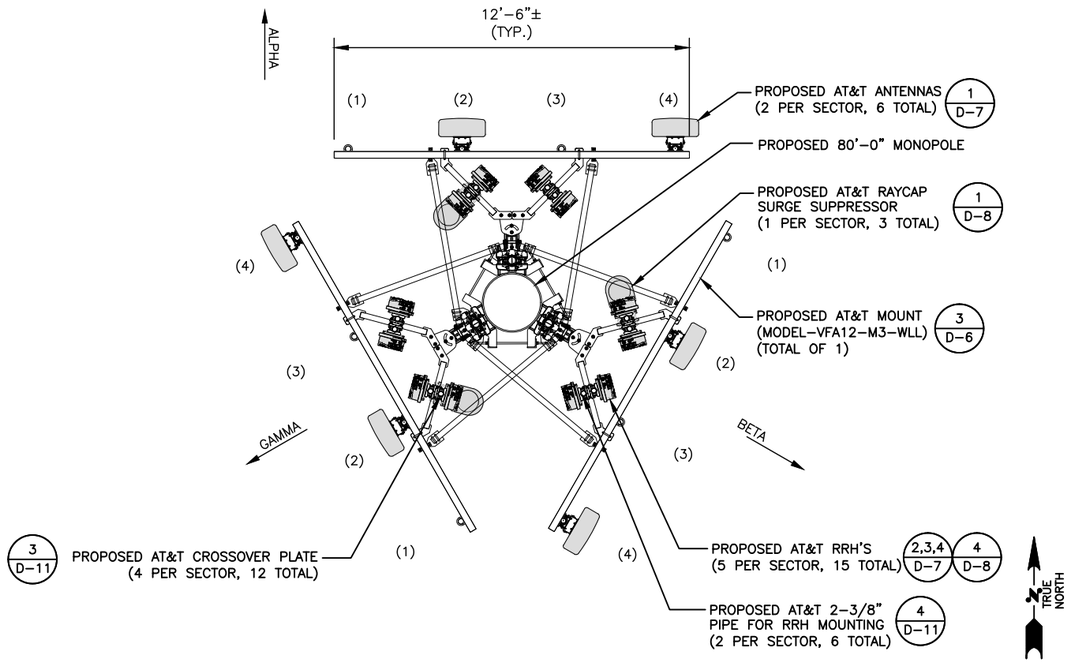
A-3

EQUIPMENT PLAN

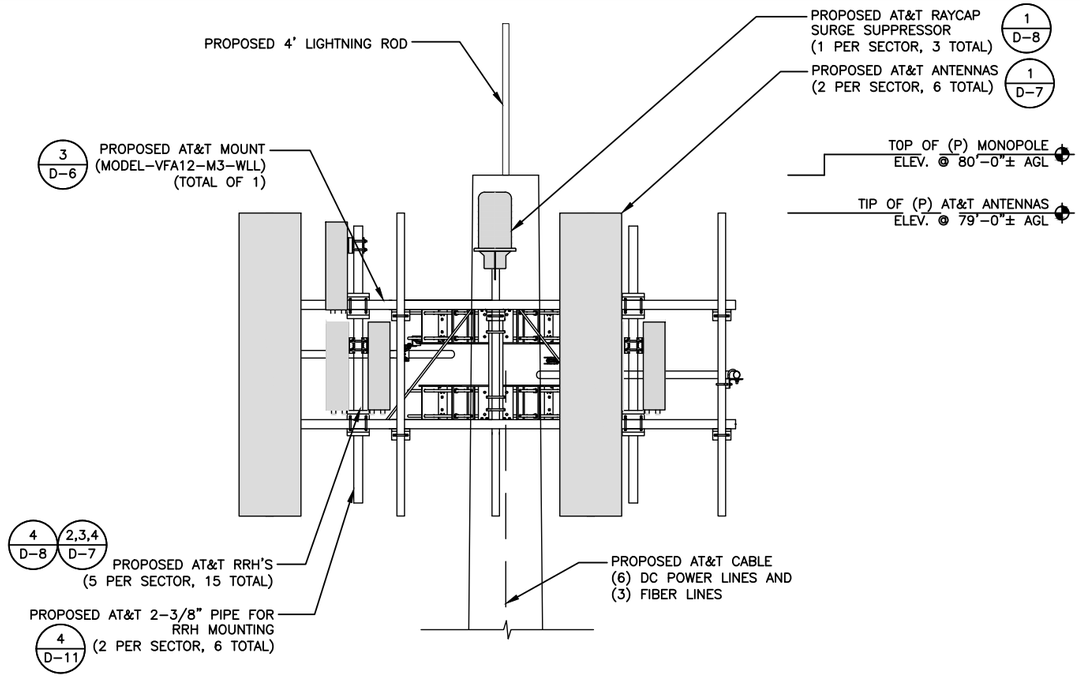
0 2' 4'

SCALE: 1/4"=1'-0" (11x17)
(OR) 1/2"=1'-0" (22x34)

1



PROPOSED ANTENNA LAYOUT | 0 3' 6' | SCALE: 3/16"=1'-0" (11x17) (OR) 3/8"=1'-0" (22x34) | 1



PROPOSED SECTOR PROFILE | 0 2' 4' | SCALE: 1/4"=1'-0" (11x17) (OR) 1/2"=1'-0" (22x34) | 2

ANTENNA SCHEDULE

SECTOR	ANTENNA POSITION	TECHNOLOGY	MANUFACTURER	MODEL NUMBER	STATUS	TIP HEIGHT	CABLE TYPE	APPROXIMATE CABLE LENGTH	SQUID	RADIO
ALPHA	1	–	–	–	–	–	(2) DC TRUNKS (1) FIBER TRUNK	–	(1) DC6-48-60-24-8C-EV	–
	2	LTE 850/LTE 1900 LTE AWS/LTE WCS	COMMSCOPE	NNH4-65C-R6*	NEW	79'-0"		110'-0"		(1) AIRSCALE RRH 4T4R B5 160W AHCA (1) AIRSCALE DUAL RRH 4T4R B25/66 320W AHFIB (1) AIRSCALE RRH 4T4R B30 100W AHNA
	3	–	–	–	–	–		–		–
	4	LTE 700/LTE 1900	COMMSCOPE	NNH4-65C-R6*	NEW	79'-0"		110'-0"		(1) B12/B14 AIRSCALE DUALBAND RRH 4T4R 320W (AHLBA) (1) AIRSCALE DUAL RRH 4T4R B25/66 320W AHFIB
BETA	1	–	–	–	–	–	(2) DC TRUNKS (1) FIBER TRUNK	–	(1) DC6-48-60-24-8C-EV	–
	2	LTE 850/LTE 1900 LTE AWS/LTE WCS	COMMSCOPE	NNH4-65C-R6*	NEW	79'-0"		110'-0"		(1) AIRSCALE RRH 4T4R B5 160W AHCA (1) AIRSCALE DUAL RRH 4T4R B25/66 320W AHFIB (1) AIRSCALE RRH 4T4R B30 100W AHNA
	3	–	–	–	–	–		–		–
	4	LTE 700/LTE 1900	COMMSCOPE	NNH4-65C-R6*	NEW	79'-0"		110'-0"		(1) B12/B14 AIRSCALE DUALBAND RRH 4T4R 320W (AHLBA) (1) AIRSCALE DUAL RRH 4T4R B25/66 320W AHFIB
GAMMA	1	–	–	–	–	–	(2) DC TRUNKS (1) FIBER TRUNK	–	(1) DC6-48-60-24-8C-EV	–
	2	LTE 850/LTE 1900 LTE AWS/LTE WCS	COMMSCOPE	NNH4-65C-R6*	NEW	79'-0"		110'-0"		(1) AIRSCALE RRH 4T4R B5 160W AHCA (1) AIRSCALE DUAL RRH 4T4R B25/66 320W AHFIB (1) AIRSCALE RRH 4T4R B30 100W AHNA
	3	–	–	–	–	–		–		–
	4	LTE 700/LTE 1900	COMMSCOPE	NNH4-65C-R6*	NEW	79'-0"		110'-0"		(1) B12/B14 AIRSCALE DUALBAND RRH 4T4R 320W (AHLBA) (1) AIRSCALE DUAL RRH 4T4R B25/66 320W AHFIB

* CONTRACTOR TO REFER TO FINAL RFDS FOR ALL RF DETAILS.

PROPOSED ANTENNA SCHEDULE | N.T.S. | 3

AT&T
161 INVERNESS DRIVE W, 2ND FLOOR
ENGLEWOOD, CO 80112

smartlink
1997 ANNAPOLIS EXCHANGE PARKWAY,
SUITE 200
ANNAPOLIS, MD 21401

Trylon
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
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B	01/09/20	90% CD	SKS
C	01/16/20	90% CD	PTN
0	01/21/20	100% CD	PTN

REGISTERED PROFESSIONAL ENGINEER
No. 5088399-2202
KIRK REED HALL
STATE OF UTAH

1-21-2020

SITE INFORMATION

LTE 1C/2C/3C/4C/5C/6C

UTL01221

1300 S 5600 W

FA#: 14431264

SITE ADDRESS:

1550 SOUTH 5600 WEST,
SALT LAKE CITY, UT 84104
SALT LAKE COUNTY

SHEET DESCRIPTION

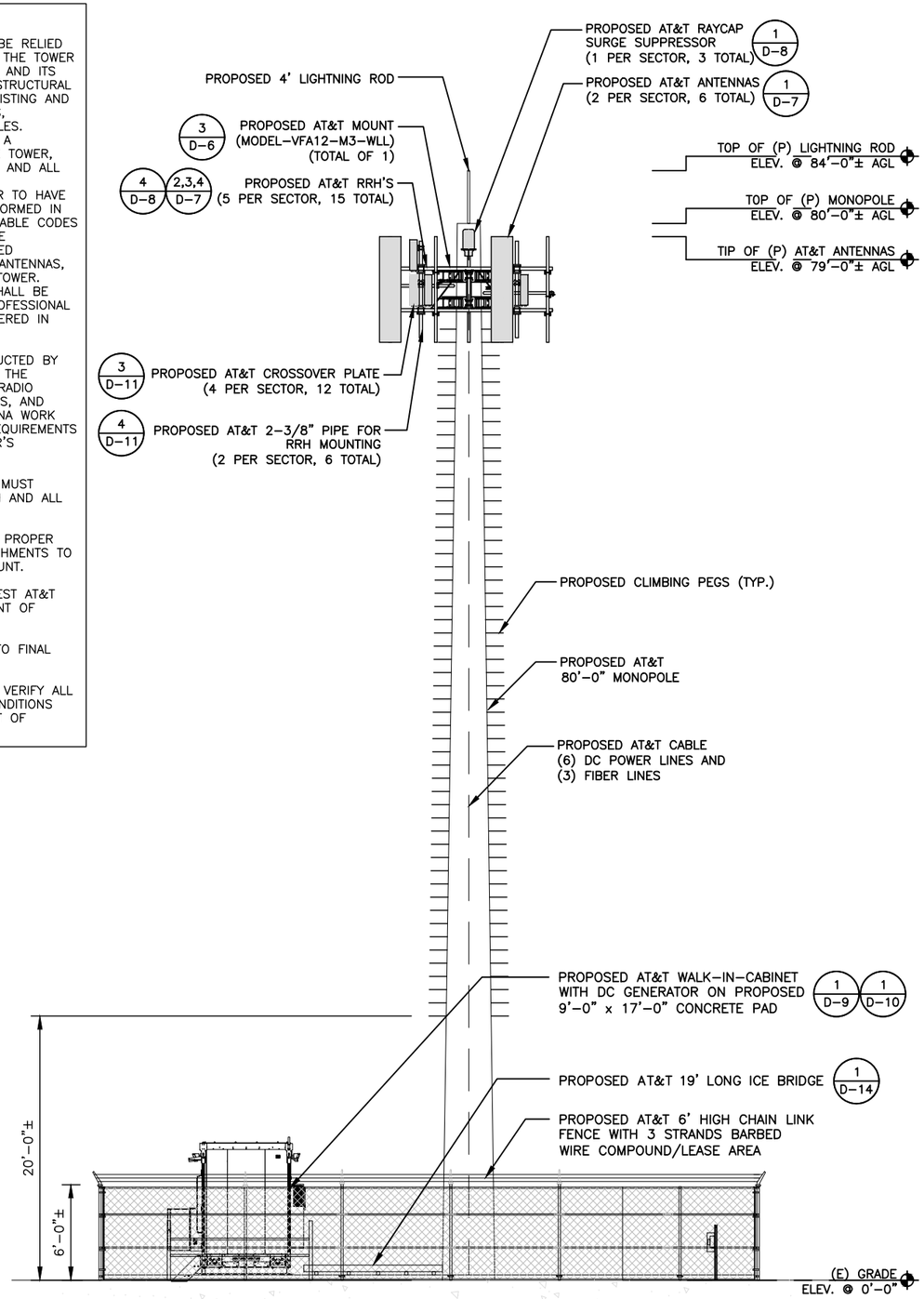
ANTENNA LAYOUT AND SCHEDULE

SHEET NO.

A-4

NOTES:

1. THESE DRAWINGS SHALL NOT BE RELIED UPON AS AN INDICATION THAT THE TOWER STRUCTURE, ITS COMPONENTS, AND ITS FOUNDATION HAVE ADEQUATE STRUCTURAL CAPACITY TO SUPPORT ALL EXISTING AND PROPOSED ANTENNAS, MOUNTS, EQUIPMENT, AND COAXIAL CABLES. TRYLON HAS NOT PERFORMED A STRUCTURAL ANALYSIS ON THE TOWER, FOUNDATION, ANTENNA MOUNT, AND ALL ITS COMPONENTS. IT IS THE RESPONSIBILITY OF THE OWNER TO HAVE A STRUCTURAL ANALYSIS PERFORMED IN ACCORDANCE WITH ALL APPLICABLE CODES AND STANDARDS PRIOR TO THE INSTALLATION OF ANY PROPOSED EQUIPMENT, COAXIAL CABLES, ANTENNAS, OR APPURTENANCES ON THE TOWER. THIS STRUCTURAL ANALYSIS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL STRUCTURAL ENGINEER REGISTERED IN UTAH.
2. INSTALLATION SHALL BE CONDUCTED BY FIELD CREWS EXPERIENCED IN THE ASSEMBLY AND ERECTION OF RADIO ANTENNAS, TRANSMISSION LINES, AND SUPPORT STRUCTURES. ANTENNA WORK TO BE INSTALLED PER THE REQUIREMENTS OF THE TOWER MANUFACTURER'S SPECIFICATION.
3. ANTENNA AND MOUNT DESIGN MUST COMPLY WITH ANSI/TIA-222-H AND ALL LOCAL CODES.
4. CONTRACTOR TO PROVIDE THE PROPER COAX JUMPER SUPPORT ATTACHMENTS TO THE TOWER AND ANTENNA MOUNT.
5. CONTRACTOR TO GET THE LATEST AT&T RFDS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
8. CONTRACTOR SHOULD REFER TO FINAL RFDS FOR ALL RF DETAILS.
9. THE CONTRACTOR MUST FIELD VERIFY ALL MEASUREMENTS AND FIELD CONDITIONS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

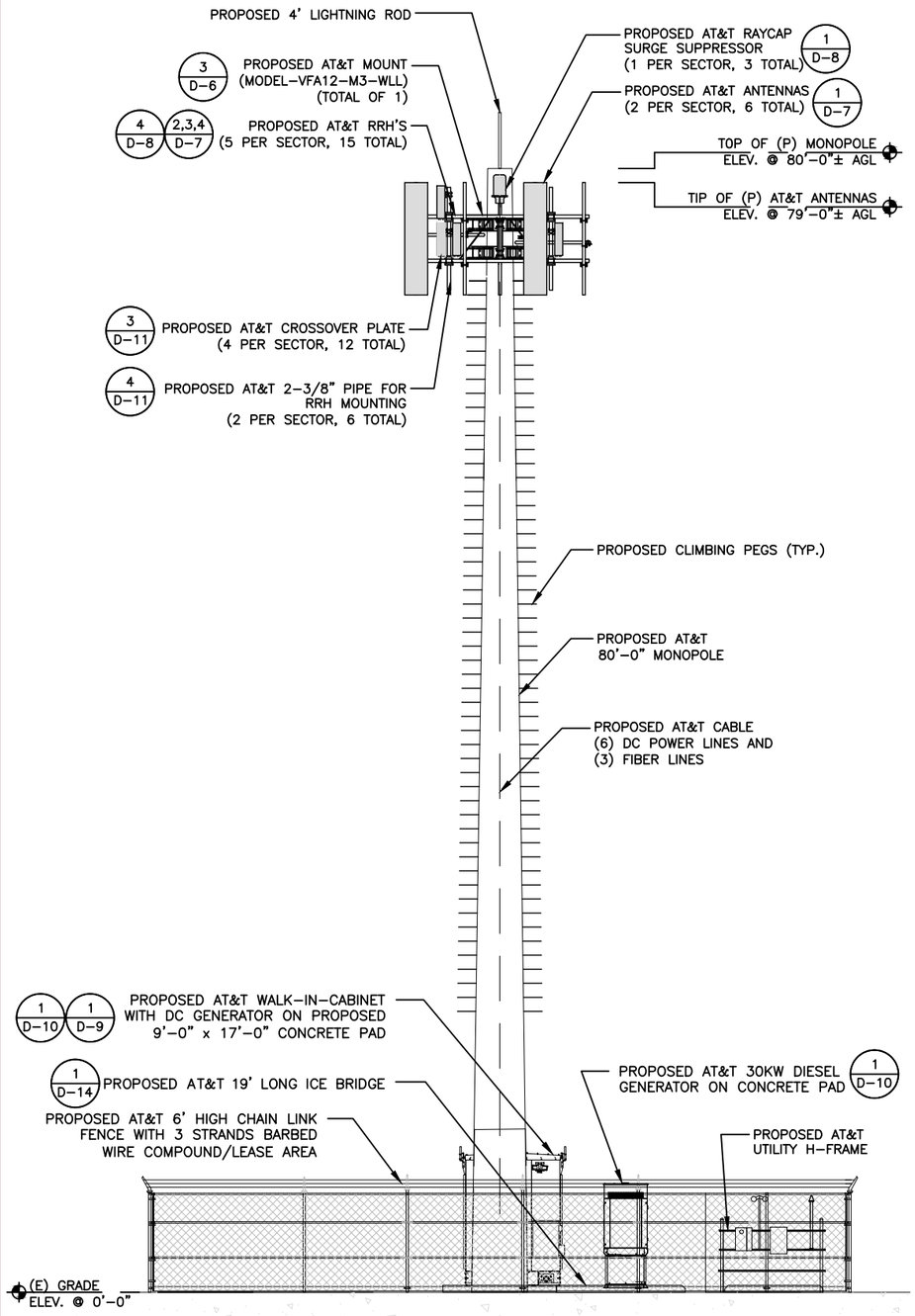


PROPOSED SOUTH ELEVATION

0 3' 6' 12'

SCALE: 3/32"=1'-0" (11x17)
(OR) 3/16"=1'-0" (22x34)

1



PROPOSED EAST ELEVATION

0 3' 6' 12'

SCALE: 3/32"=1'-0" (11x17)
(OR) 3/16"=1'-0" (22x34)

2

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KIRK REED HALL
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SALT LAKE COUNTY

SHEET DESCRIPTION

ELEVATIONS

SHEET NO.

A-5

CABLE LENGTH										
SECTOR	PDF	DISTANCE & CABLE TYPE		DC-12	DISTANCE & CABLE TYPE		SQUID	DISTANCE & CABLE TYPE		RRH	TOTAL CABLE LENGTH	FINAL VOLTAGE
ALPHA		15'	8 AWG		110'	8 AWG		15'	8 AWG		140'	42.719V
BETA		15'	8 AWG		110'	8 AWG		15'	8 AWG		140'	42.719V
GAMMA		15'	8 AWG		110'	8 AWG		15'	8 AWG		140'	42.719V

NOTE:
1. USE COMMSCOPE SNAPTAK CABLE HANGERS 10 FT. BELOW AND ABOVE ANTENNAS, AND 5 FT. BEHIND ANTENNAS TO MITIGATE PIM ISSUES. SEE DETAIL 2/D-6.
2. CONTRACTOR TO REFER TO FINAL RFDS FOR ALL RF DETAILS.

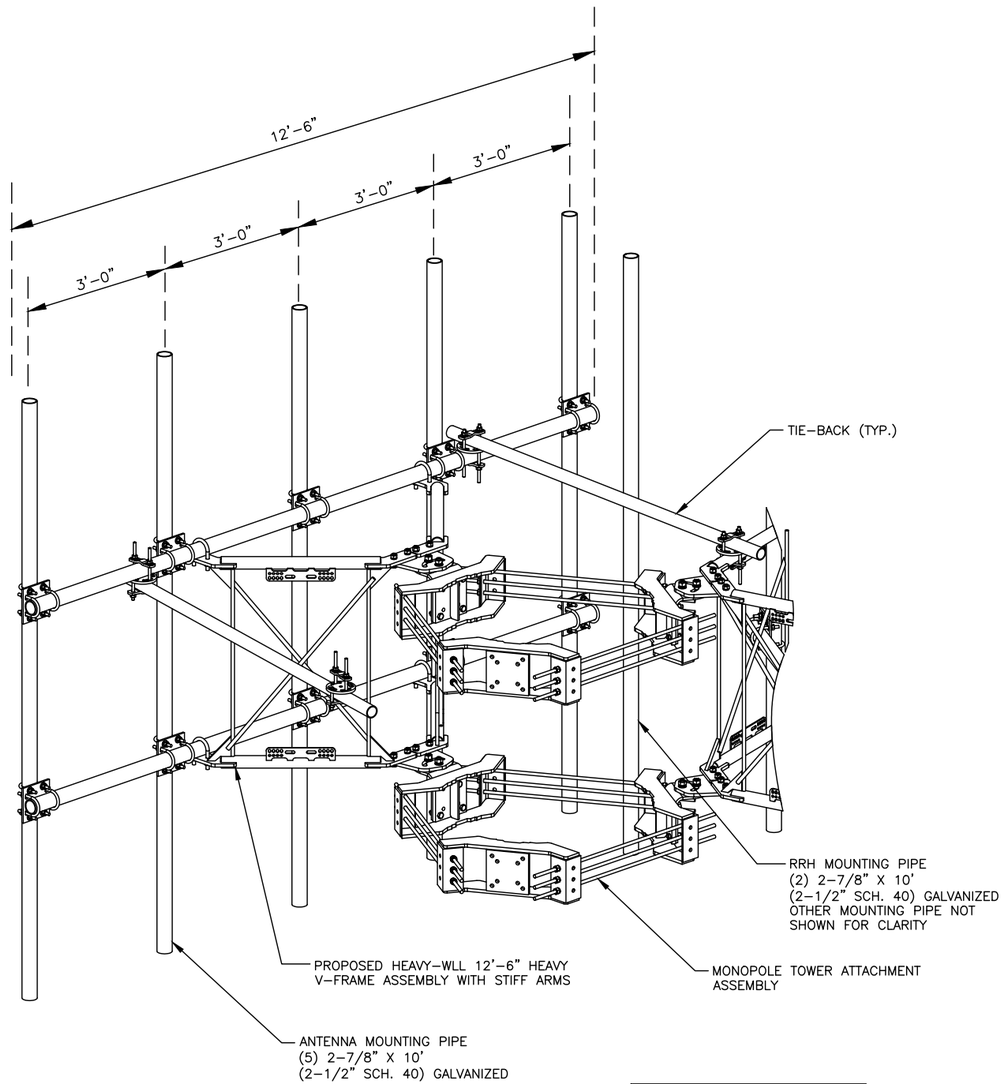
CABLE COUNT	
QUANTITY	CABLE TYPE
6	6 CONDUCTORS (3 PR) 3/4" DC CABLE
3	36 FIBER (18 PR) 3/8" FIBER

CABLE LENGTH AND COUNT — N.T.S. — 1

SNAPTAK PIM FREE POLYMER HANGERS				
	PART #	AT&T ITEM NUMBER	CABLE SIZE RANGE	AT&T APPROVED CABLES
	SSH-47	ANT. 16979	4.0 TO 7.0 MM	2 FIBER JUMPERS AND 4 FIBER JUMPERS
	SSH-710	ANT. 16980	7.1 TO 10.0 MM	RET CABLES
	SSH-1014	ANT. 16981	10.1 TO 14.0 MM	2 CONDUCTOR POWER CABLES
	SSH-1416	ANT. 16982	14.1 TO 16.0 MM	1/2" COAX CABLE JUMPERS

NOTE:
USE SNAPTAK PIM FREE POLYMER HANGERS FOR COAX, DC AND FIBER JUMPER SUPPORT.

SNAPTAK PIM FREE POLYMER HANGERS — N.T.S. — 2



NOTE:
ONE SECTOR ASSEMBLY SHOWN.

CLASSIFICATION	MANUFACTURER	PART #	DESCRIPTION	CEQ #	TOTAL WEIGHT
HEAVY WLL	SITE PRO 1	VFA12-M3-WLL	12'-6" HEAVY DUTY V-FRAME ASSEMBLY WITH TWO STIFF ARMS	ANT#17233	2999.58 Lbs.

PROPOSED MOUNT — N.T.S. — 3

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SALT LAKE COUNTY

SHEET DESCRIPTION

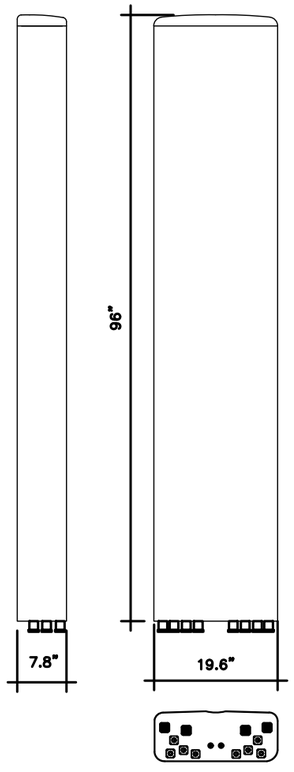
DETAILS

SHEET NO.

D-6

COMMSCOPE ANTENNAS NNH4-65C-R6

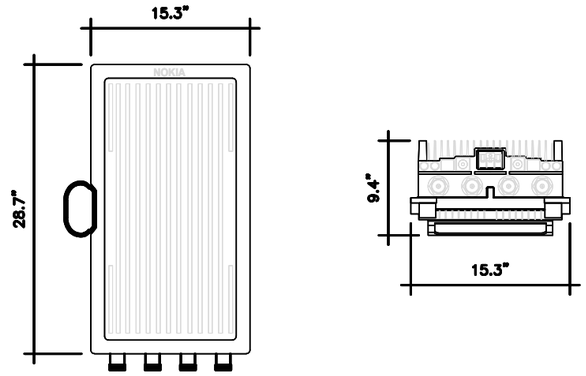
DIMENSIONS, HXWXD:	96"X19.6"X7.8"
SURVIVAL WIND SPEED:	>124 MPH
WEIGHT, WITHOUT MOUNTING:	99.2 LBS. (45 kg)
CONNECTOR:	8-PIN DIN FEMALE 8-PIN DIN MALE
CONNECTOR POSITION:	BOTTOM
MOUNTING POLE:	2.4-4.5 INCHES



NNH4-65C-R6 ANTENNA DETAIL | NOT TO SCALE | 1

NOKIA AIRSCALE DUAL RRH 4T4R B12/14 320W AHLBA

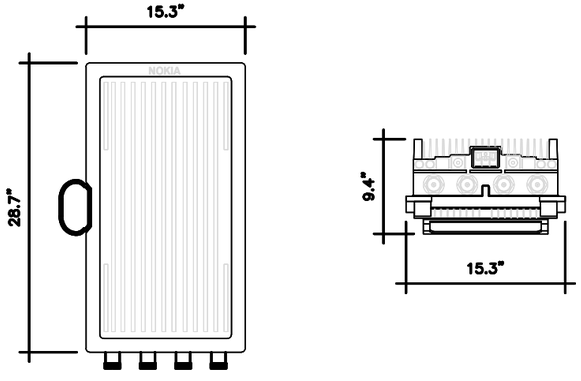
DIMENSIONS, HXWXD:	560 X 308 X 149 (MM) (CORE) 28.7" X 15.3" X 9.4" (CORE) 730 X 390 X 240 (MM) (OVERALL NOT-TO-EXCEED WITH COVER AND BRACKET) 28.7" X 15.3" X 9.4" (OVERALL NOT-TO-EXCEED WITH COVER AND BRACKET)
WEIGHT:	< 46 (kg) < 101.4 lbs (OVERALL NOT-TO-EXCEED WITH COVER AND BRACKET)



AIRSCALE DUAL RRH 4T4R B12/14 320W AHLBA DETAIL | NOT TO SCALE | 2

NOKIA AIRSCALE DUAL RRH 4T4R B25/66 320W AHFIB

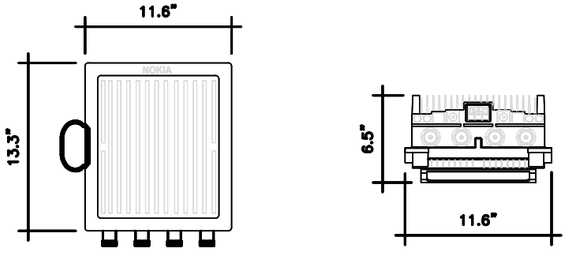
DIMENSIONS, HxWxD:	560 X 308 X 149 (MM) (CORE) 28.7" X 15.3" X 9.4" (CORE) 730 X 390 X 240 (MM) (OVERALL NOT-TO-EXCEED WITH COVER AND BRACKET) 28.7" X 15.3" X 9.4" (OVERALL NOT-TO-EXCEED WITH COVER AND BRACKET)
WEIGHT:	< 40 (kg) < 88.2 lbs (OVERALL NOT-TO-EXCEED WITH COVER AND BRACKET)



AIRSCALE DUAL RRH 4T4R B25/66 320W AHFIB DETAIL | NOT TO SCALE | 3

NOKIA NOKIA AIRSCALE RRH 4T4R B5 160W AHCA

DIMENSIONS, HXWXD:	337 X 295 X 165 (MM) 13.3" X 11.6" X 6.5"
WEIGHT:	16.7 (kg) 36.8 lbs



AIRSCALE RRH 4T4R B5 160W AHCA DETAIL | NOT TO SCALE | 4

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IRVING, TEXAS 75038
1-855-669-5421

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REGISTERED PROFESSIONAL ENGINEER
No. 5088359-2202
KIRK REED HALL
STATE OF UTAH

1-21-2020

SITE INFORMATION

LTE 1C/2C/3C/4C/5C/6C

UTL01221

1300 S 5600 W

FA#: 14431264

SITE ADDRESS:

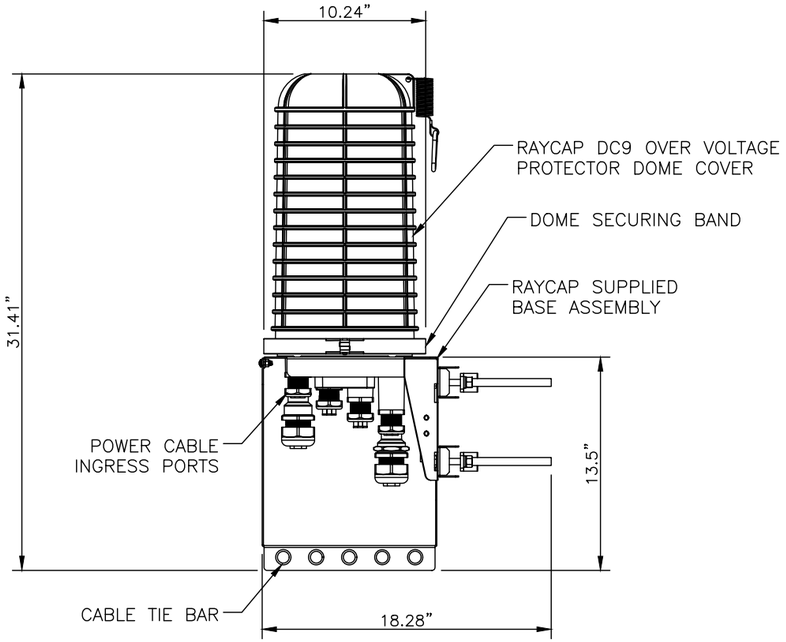
1550 SOUTH 5600 WEST,
SALT LAKE CITY, UT 84104
SALT LAKE COUNTY

SHEET DESCRIPTION

WALK IN CABINET DETAILS

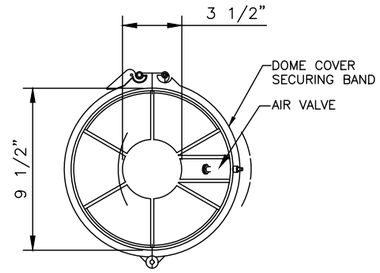
SHEET NO.

D-7



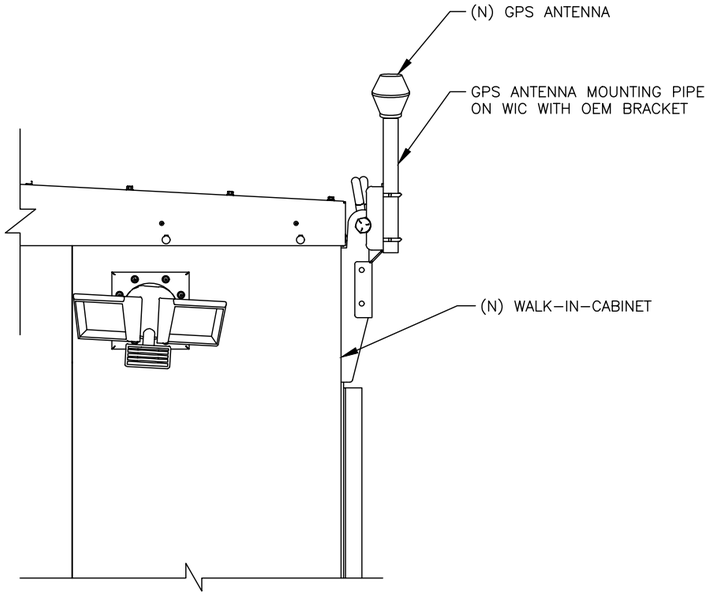
RAYCAP DC9 (SQUID)	
LENGTH (H)	18.28"
WIDTH (W)	10.24"
HEIGHT (D)	31.41"
WEIGHT: SYSTEM MOUNT TOTAL:	 16.0 LBS 10.2 LBS 26.2 LBS
COMBINED WIND LOADING SUSTAINED | GUST	105.7 LBS | 213.6 LBS

DC9-48-60-24-8C-EV



TOP VIEW

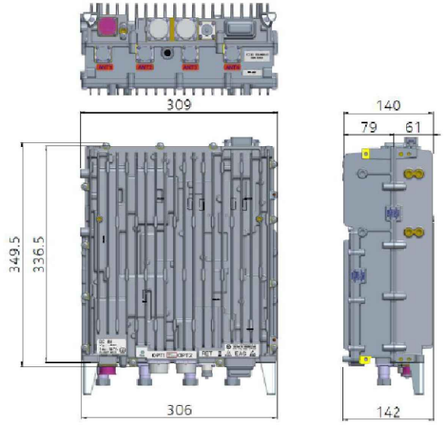
DC/FIBER SQUID DETAILS — NOT TO SCALE — 1



GPS ANTENNA MOUNTING DETAIL — NOT TO SCALE — 2

AHNA Volume and Weight Data

Core Unit Dimensions	336.5 x 306 x 140 mm / 13.25 x 12.05 x 5.51 inch
Core Unit weight	15.5 Kg / 34.17 lbs
Core Unit volume	14.4 Liters
Core Flange Dimensions	349.5 x 309 x 142 mm / 13.76 x 12.17 x 5.59 inch
Dimensions of Core Unit with AMGD cover	349 x 317 x 160 mm / 13.74 x 12.48 x 6.30 inch
Weight of Core Unit with bracket & AMGD cover	17.7 Kg / 39.02 lbs
Volume of Core Unit Unit with AMGD cover	17.7 Liters



NOKIA

AIRSCALE RRH 4T4R B30 100W AHNA DETAIL — NOT TO SCALE — 3

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SALT LAKE COUNTY

SHEET DESCRIPTION

GENERATOR DETAILS

SHEET NO.

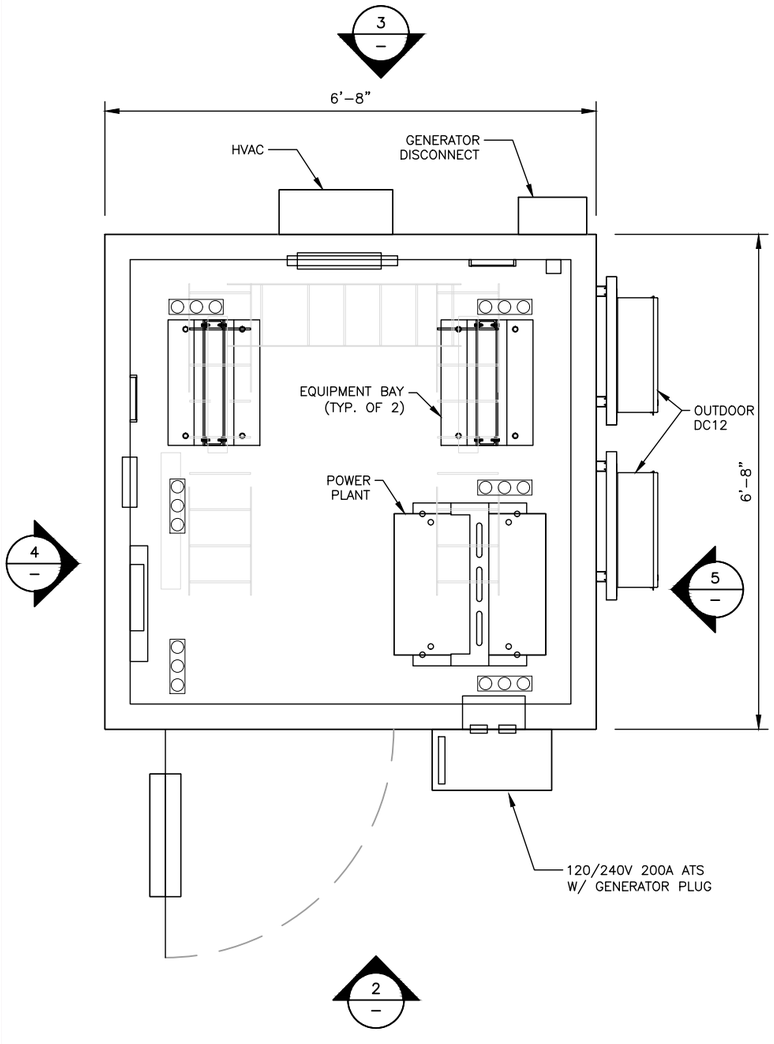
D-8

VERTIV

XTE 801 Series

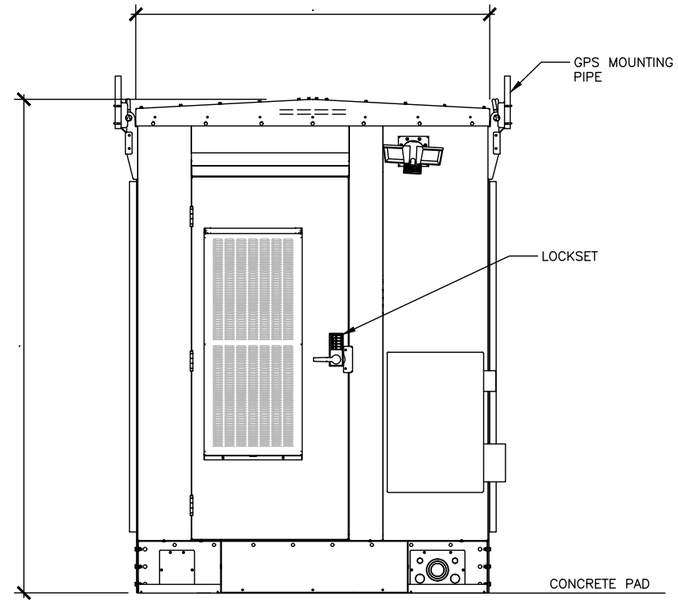
Steel Walk-In-Cabinet (SWIC)

VertiveCo.com
1050 Dearborn Drive
Columbus, OH 43085
(614) 888-0246

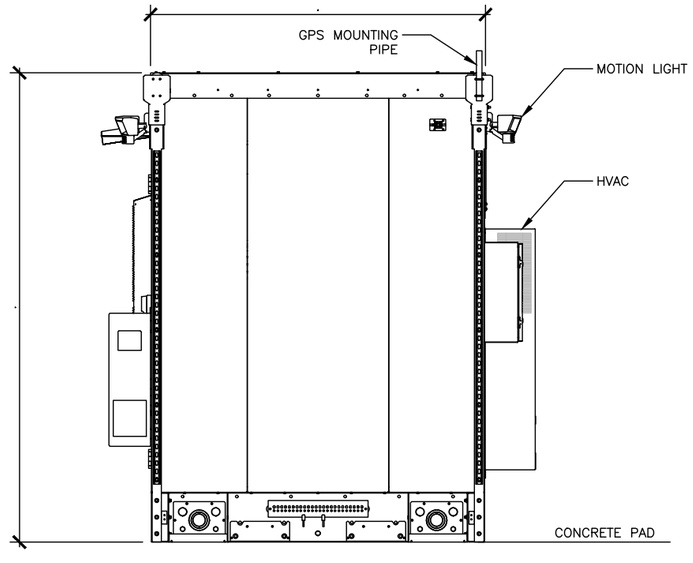


NOTE:
THE WIC IS EQUIPPED WITH TWO 19" WIDE EQUIPMENT BAYS AND EACH PROVIDES 45 RACK UNITS. ONE RACK COMES EQUIPPED WITH A FIBER PATCH PANEL (TELCO RACK) AND THE OTHER DOES NOT (LTE RACK).
RF EQUIPMENT IS TO BE IN ONE RACK, AND ANY POWER EQUIPMENT IS TO BE IN THE OTHER RACK (CIVIL VENDOR TO ENSURE RACKS ARE CORRECTLY SEPARATED).

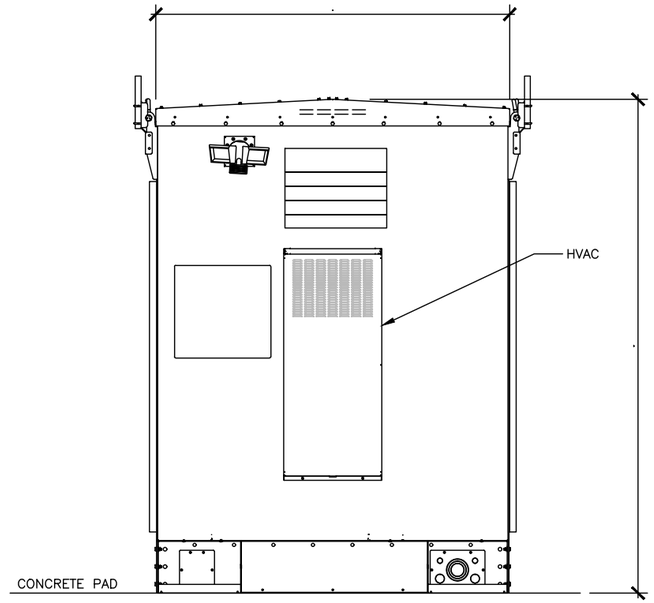
STEEL WALK-IN-CABINET PLAN (SWIC) — N.T.S.



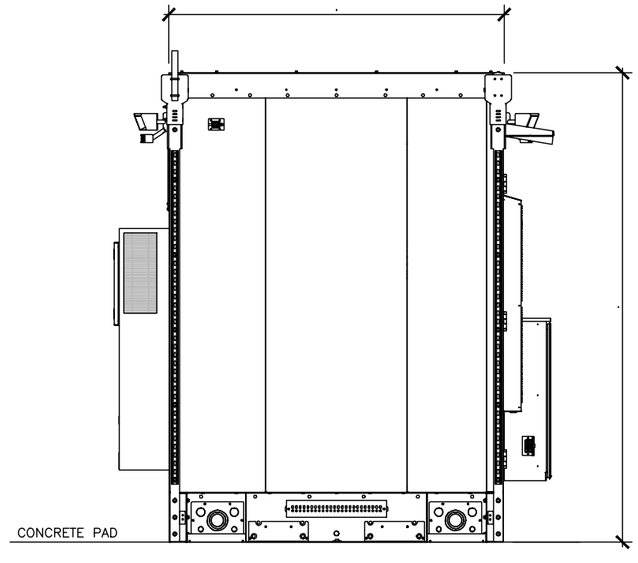
FRONT ELEVATION — N.T.S.



SIDE ELEVATION — N.T.S.



REAR ELEVATION — N.T.S.



SIDE ELEVATION — N.T.S.

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SHEET DESCRIPTION

WALK IN CABINET DETAILS

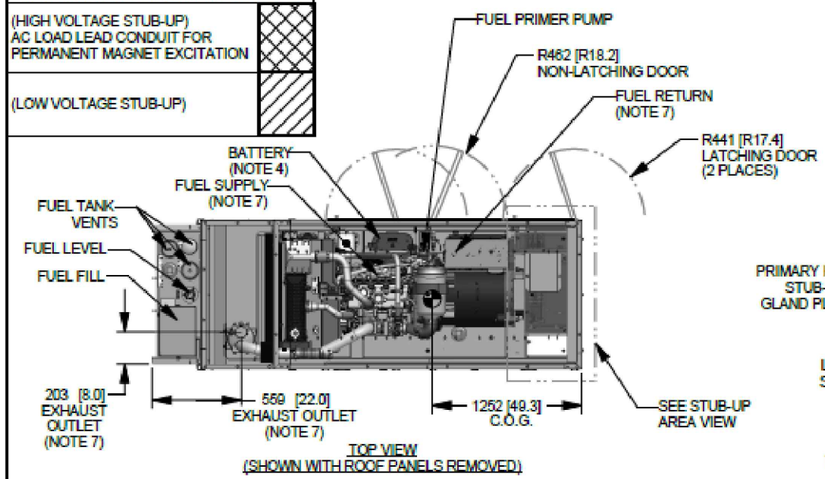
SHEET NO.

D-9

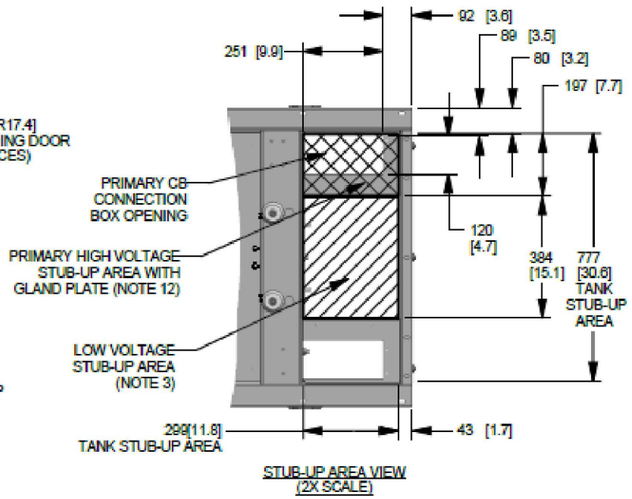
RECOMMENDED ELECTRICAL STUB-UPS

(HIGH VOLTAGE STUB-UP)
AC LOAD LEAD CONDUIT FOR PERMANENT MAGNET EXCITATION

(LOW VOLTAGE STUB-UP)

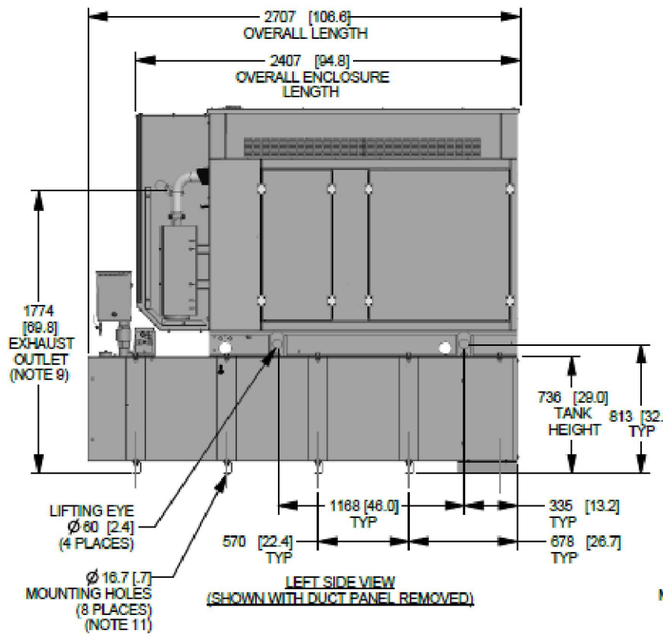


TOP VIEW
(SHOWN WITH ROOF PANELS REMOVED)

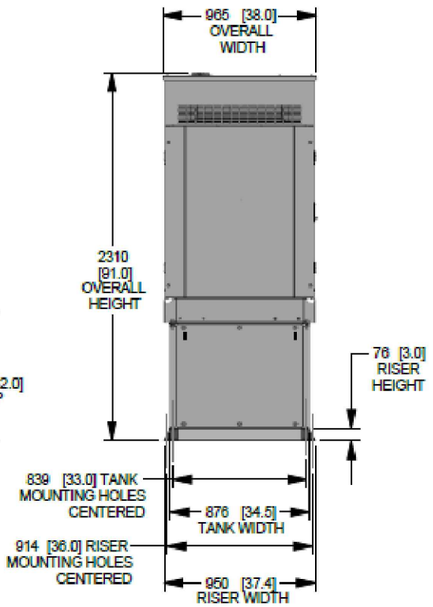


STUB-UP AREA VIEW
(2X SCALE)

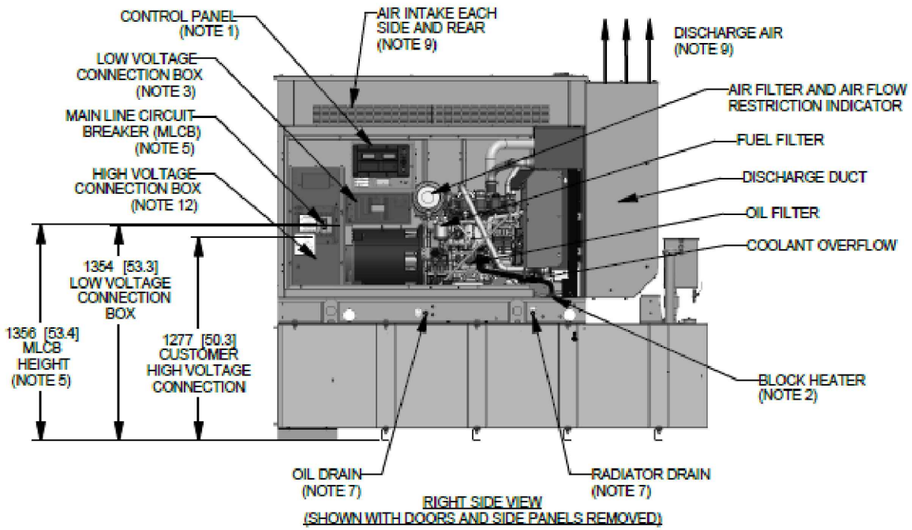
NOTES:
1. CONTROL PANEL (10A BATTERY CHARGER INSIDE)
2. 120V, 20A GFCI & 250V, 15A OUTLET
3. CONNECTION POINTS FOR CONTROL WIRES PROVIDED IN THE LOW VOLTAGE CONNECTION BOX (USE LOW VOLTAGE STUB-UP AREA)
4. BATTERY (12 VOLT NEGATIVE GROUND SYSTEM).
5. MAIN LINE CIRCUIT BREAKER (MLCB) (MLCB HEIGHT MAY VARY WITH CB SELECTION). AC LOAD LEADS CONNECT DIRECTLY TO BOTTOM OF BREAKER.
6. CENTER OF GRAVITY AND WEIGHT MAY SHIFT SLIGHTLY DUE TO UNIT OPTIONS
7. ENGINE SERVICE CONNECTIONS:
   FUEL SUPPLY = 3/8" NPT
   FUEL RETURN = 3/8" NPT
   OIL DRAIN = 1/2" NPT
   RADIATOR DRAIN = 1/2" NPT
   EXHAUST OUTLET = 2.5" I.D.
8. STUB-UPS: BASE TANK REQUIRES ALL STUB-UPS TO BE IN THE REAR TANK STUB-UP AREA.
9. GENERATOR SET MUST BE INSTALLED SUCH THAT FRESH COOLING AIR IS AVAILABLE AND DISCHARGE AIR IS NOT RECIRCULATED. SEE SPEC SHEET FOR MINIMUM AIR FLOW AND MAXIMUM RESTRICTION REQUIREMENTS.
10. BOTTOM OF GENERATOR SET MUST BE CLOSED TO PREVENT PEST INTRUSION AND RECIRCULATION OF DISCHARGE AIR AND/OR IMPROPER COOLING AIR FLOW.
11. BOLTS OR STUDS USED TO MOUNT UNIT TO PAD SHALL BE 5/8-11 GRADE 5. USE STANDARD SAE TORQUE SPECS.
12. HIGH VOLTAGE STUB-UP AREA INCLUDES THE AC LOAD LEAD CONNECTIONS TO MLCB, NEUTRAL CONNECTION AND AUXILIARY 120/240V CONNECTION.
13. 190 GALLON USEABLE CAPACITY BASETANK STANDARD WITH GENERATOR
14. 1500W 120 VAC ENGINE BLOCK HEATER WITH THREE PRONG CORD.
15. FUEL LINES ARE PLUMBED DIRECTLY TO BASE TANK
16. DOORS MUST BE ABLE TO OPEN AT LEAST 90° TO BE REMOVED.
17. GENERATOR MUST BE GROUNDED



LEFT SIDE VIEW
(SHOWN WITH DUCT PANEL REMOVED)



REAR VIEW



RIGHT SIDE VIEW
(SHOWN WITH DOORS AND SIDE PANELS REMOVED)

WEIGHT DATA: INCLUDES FUEL TANK
GENERATOR: 1358 [2995]
GENERATOR WITH SHIPPING SKID: 1424 [3139]

WEIGHT: KG [LBS]
DIMENSIONS: MM [INCHES]

DRAWING CREATED FROM PRO/ENGINEER 3D FILE. ECO MODIFICATION TO BE APPLIED TO SOLID MODEL ONLY.

INSTALLATION DRAWING

ELECTRONICALLY APPROVED
INSIDE WINDCHILL

GENERAC

TITLE
INSTALL D2.2L G22
30KW SSS L2A Y01 EXT

ISSUE DATE: 12/18/17

SIZE	CAGE NO	DWG NO	REV
B	N/A	10000019290	A

SCALE 0.030 | WT-KG SEE ABOVE | SHEET 1 of 1

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Trylon
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1-855-669-5421

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SUBMITTALS

REV	DATE	DESCRIPTION	BY
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B	01/09/20	90% CD	SKS
C	01/16/20	90% CD	PTN
0	01/21/20	100% CD	PTN

REGISTERED PROFESSIONAL ENGINEER
No. 5088359-2202
KIRK REED HALL
STATE OF UTAH

1-21-2020

SITE INFORMATION

LTE 1C/2C/3C/4C/5C/6C

UTL01221

1300 S 5600 W

FA#: 14431264

SITE ADDRESS:
1550 SOUTH 5600 WEST,
SALT LAKE CITY, UT 84104
SALT LAKE COUNTY

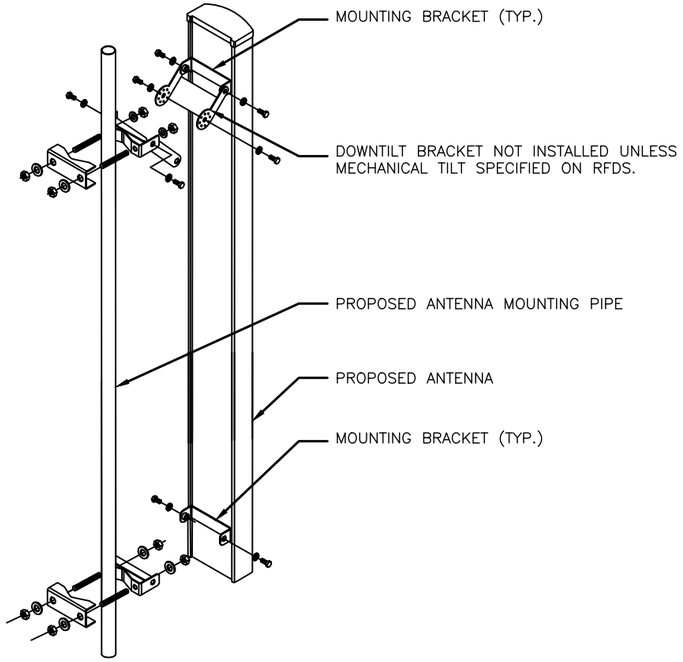
SHEET DESCRIPTION

GENERATOR DETAILS

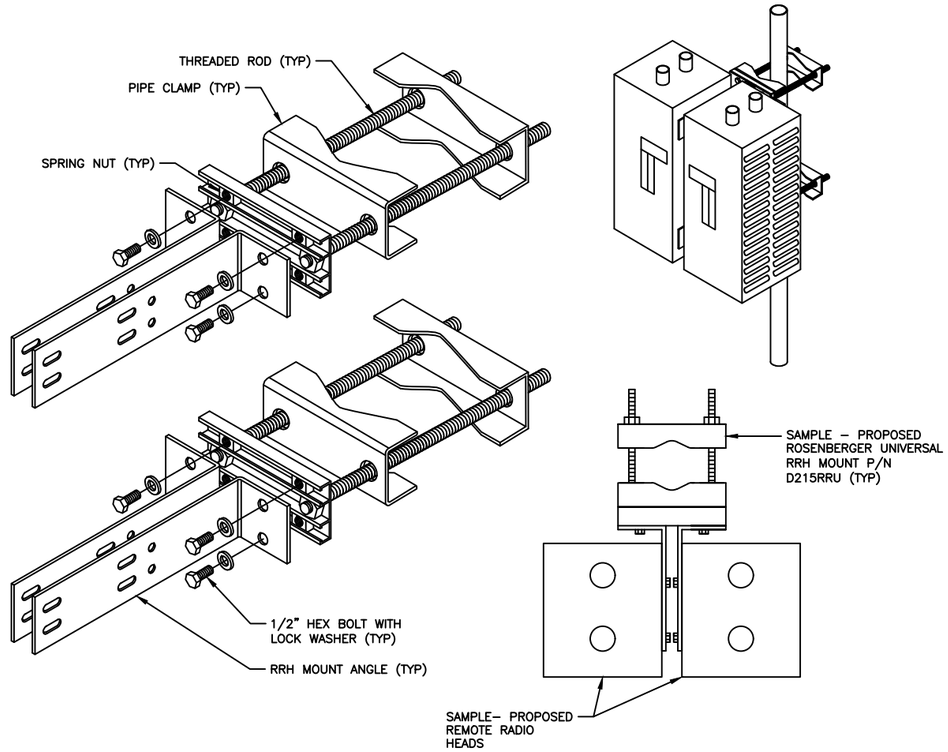
SHEET NO.

D-10

PROPOSED 30KW GENERATOR DETAIL | NOT TO SCALE | 1



ANTENNA MOUNTING DETAIL | NOT TO SCALE | 1



RRH MOUNTING DETAIL | NOT TO SCALE | 2

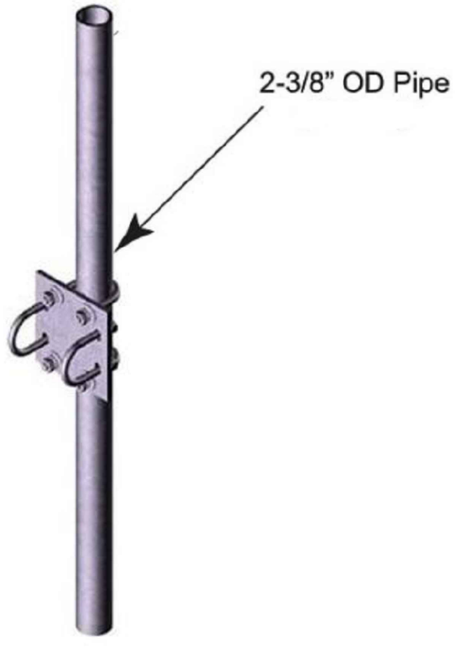
Dimensions

Height	76.2 mm | 3.0 in
Length	254.0 mm | 10.0 in
Mounting Diameter, maximum	88.9 mm | 3 1/2 in
Mounting Diameter, minimum	60.3 mm | 2 3/8 in
Weight	4.5 kg | 10.0 lb
Width	254.0 mm | 10.0 in

General Specifications

Includes	Plates | U-bolts
Material Type	Hot dip galvanized steel
Mounting	Crossover plate
Package Quantity	1
Tower Taper	Non-tapered

XP–2030 DETAIL | NOT TO SCALE | 3



2–3/8" PIPE DETAIL | NOT TO SCALE | 4

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STATE OF UTAH

1-21-2020

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UTL01221

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FA#: 14431264

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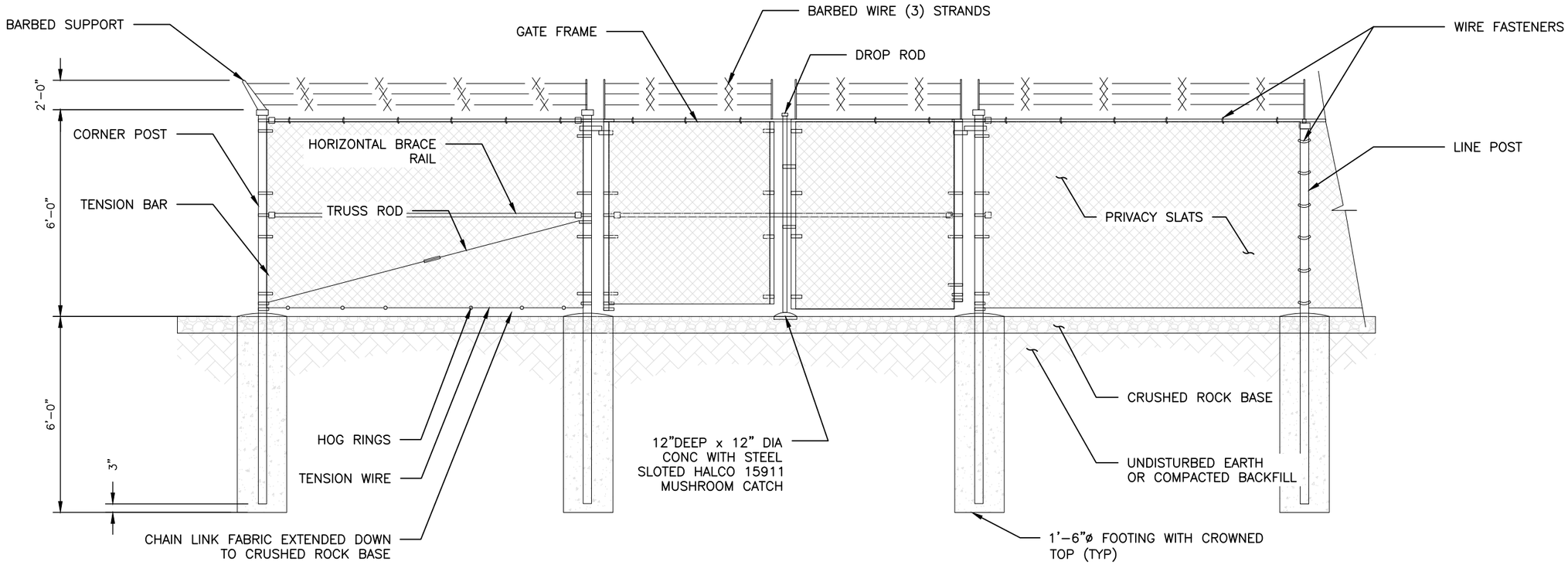
SALT LAKE CITY, UT 84104
SALT LAKE COUNTY

SHEET DESCRIPTION

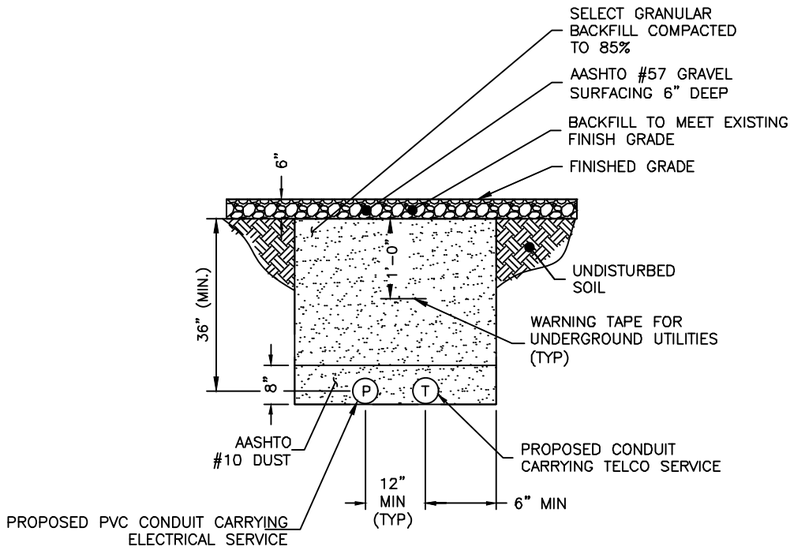
DETAILS

SHEET NO.

D–11

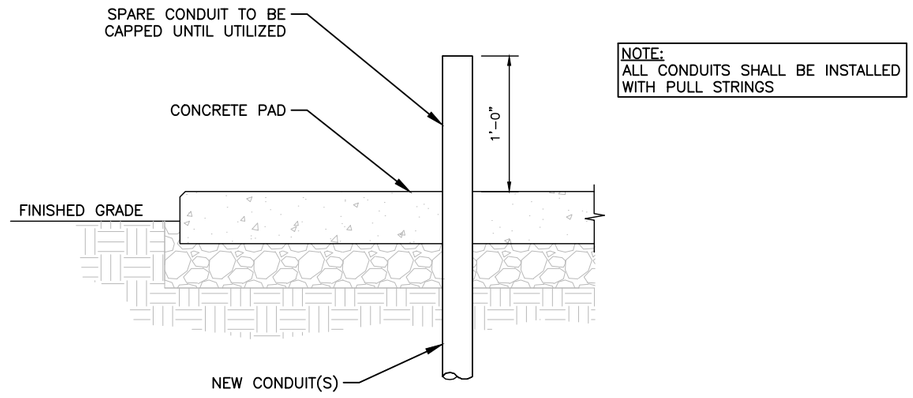


ICE BRIDGE DETAIL | NOT TO SCALE | 1



NOTE:
EXCAVATE EXISTING SUBGRADE AS REQUIRED TO INSTALL CONDUITS ACCORDING TO OSHA AND ALL APPLICABLE CODES.

TYPICAL TRENCH DETAIL | NOT TO SCALE | 2



NOTE:
ALL CONDUITS SHALL BE INSTALLED WITH PULL STRINGS

CONDUIT PENETRATION DETAIL | NOT TO SCALE | 3

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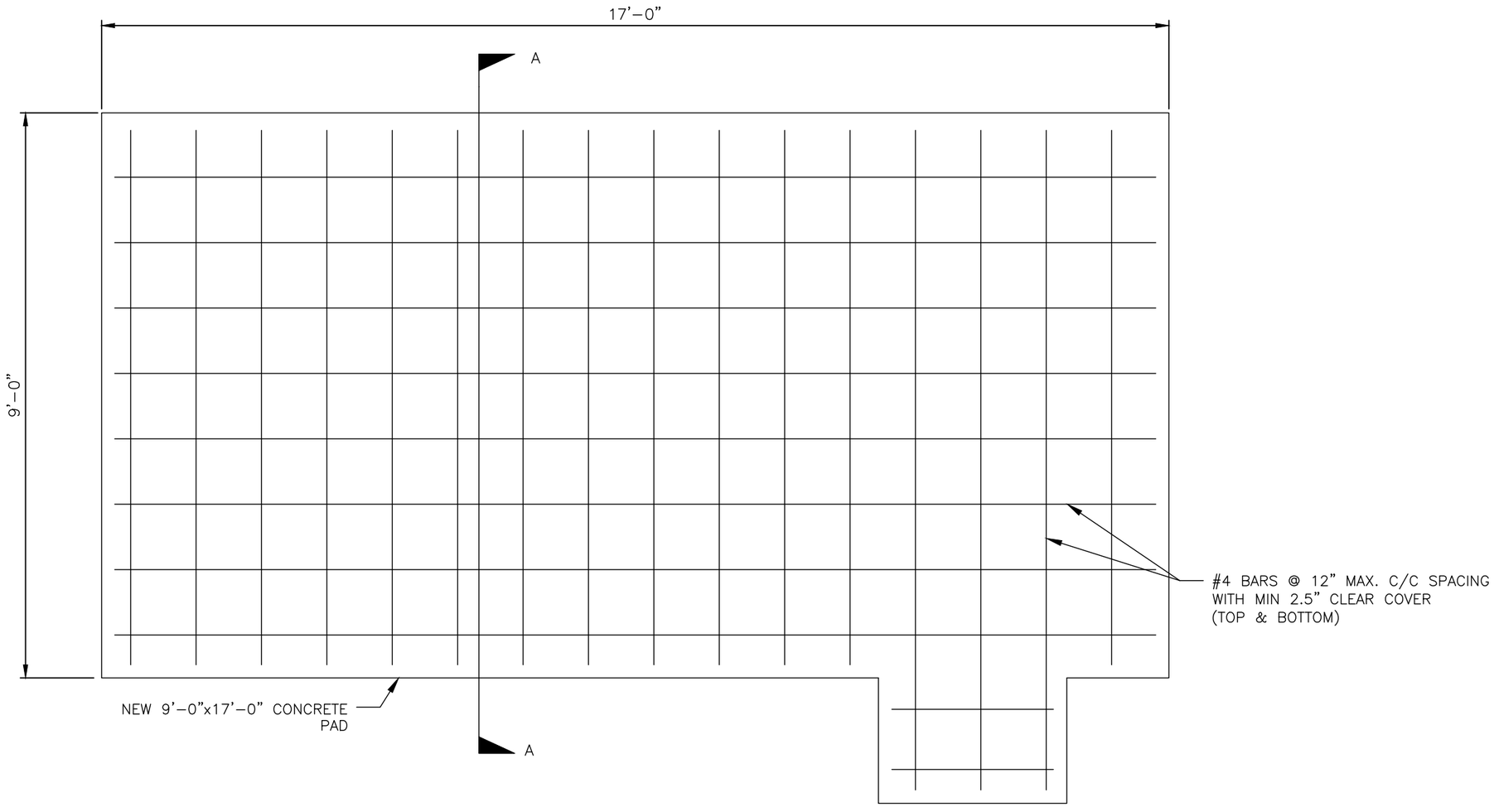
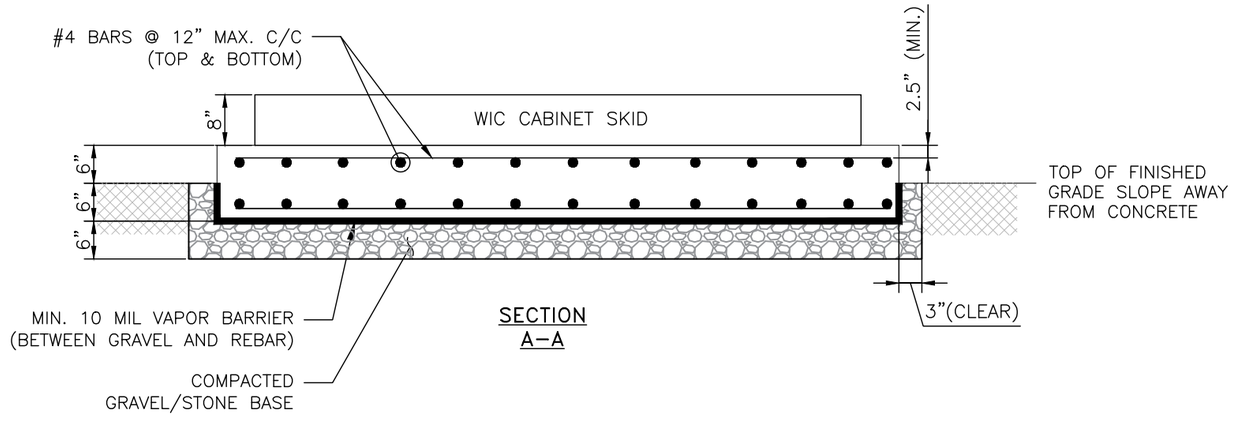
SHEET DESCRIPTION

DETAILS

SHEET NO.

D-12





SECTION
A–A

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SALT LAKE COUNTY

SHEET DESCRIPTION

FOUNDATION DETAILS

SHEET NO.

D–13

GENERATOR & SHELTER CONCRETE PAD DETAILS | NOT TO SCALE | 1

WB-K410-B15

Safety Grated Waveguide Bridge Kit, 24 in x 10 ft, with four 15 ft 4 in direct burial posts

Product Classification

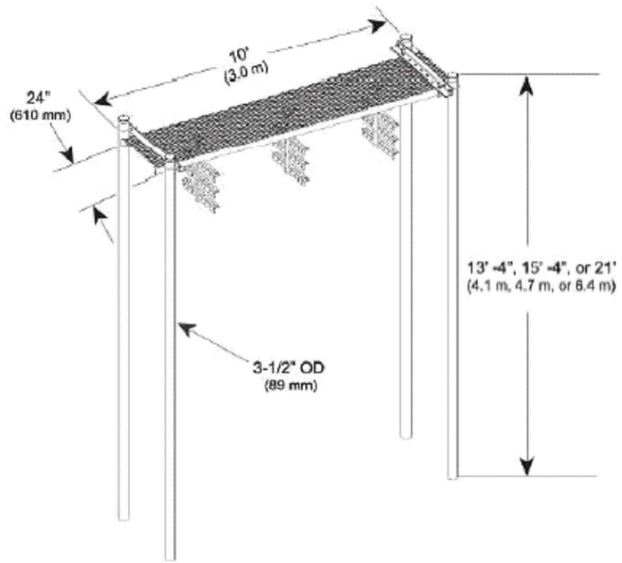
Product Type	Waveguide bridge kit

Dimensions

Height	4572.0 mm | 180.0 in
Length	3.0 m | 10.0 ft
Weight	270.4 kg | 596.0 lb

General Specifications

Application	Direct burial
Cable Runs, quantity	24
Includes	Caps | Channel | Hardware | Posts | Support brackets | Trapeze
Material Type	Hot dip galvanized steel
Package Quantity	1
Pipe Length	4.7 m | 15.3 ft
Pipe, quantity	4



MT-287

Wedge Anchor, 3/4 in x 7 in

Product Classification

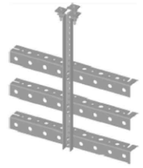
Product Type	Anchor

Dimensions

Pipe Outer Diameter	19.1 mm | 3/4 in
Height	25.4 mm | 1.0 in
Length	177.8 mm | 7.0 in
Width	25.4 mm | 1.0 in

General Specifications

Material Type	Plated steel
Includes	Anchors
Package Quantity	1



WB-T24-3

Trapeze Kit, triple tee, 24 in wide, three rungs

Product Classification

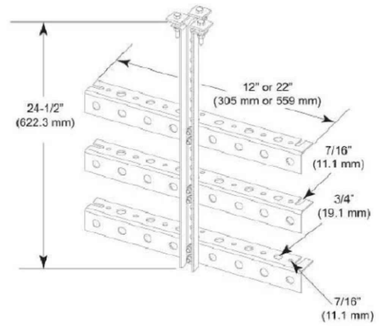
Product Type	Trapeze kit

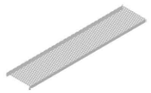
Dimensions

Width	609.6 mm | 24.0 in
Height	76.2 mm | 3.0 in
Length	635.0 mm | 25.0 in
Weight	5.9 kg | 13.0 lb

General Specifications

Application	Waveguide bridge kit, 24 in
Cable Runs, quantity	24
Hole Size	3/4 in | 7/16 in
Hole, quantity	24
Includes	Angle brackets | Mounting hardware
Material Type	Hot dip galvanized steel
Mounting	Waveguide bridge channel
Package Quantity	1
Rungs, quantity	3





WB-CY210

Safety Grated Waveguide Bridge Channel, 24 in x 10 ft

Product Classification

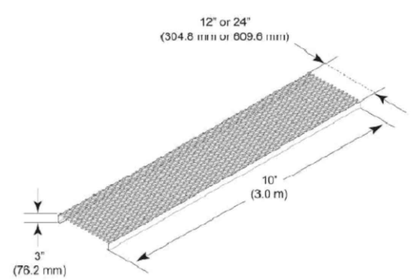
Product Type	Waveguide bridge channel

Dimensions

Height	76.2 mm | 3.0 in
Length	3.0 m | 10.0 ft
Weight	50.4 kg | 111.0 lb

General Specifications

Application	Waveguide bridge kit, 24 in
Includes	Bridge channel
Material Type	Hot dip galvanized steel
Package Quantity	1



MF-273

Direct Burial Pipe Column, 15 ft 4 in

Product Classification

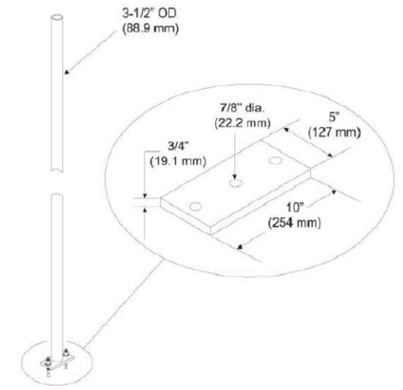
Product Type	Pipe column

Dimensions

Height	4673.6 mm | 184.0 in
Length	88.9 mm | 3.5 in
Pipe Outer Diameter	88.9 mm | 3 1/2 in
Weight	52.6 kg | 116.0 lb

General Specifications

Application	Direct burial
Includes	Anchors | Pipe
Material Type	Hot dip galvanized steel
Mounting	Waveguide bridge support bracket
Package Quantity	1
Pipe Length	4.7 m | 15.3 ft
Pipe, quantity	1



WB-CS24-3

Safety Grated Channel Support, 24 in wide for 3-1/2 in OD pipe

Product Classification

Product Type	Support bracket

Dimensions

Height	101.6 mm | 4.0 in
Length	101.6 mm | 4.0 in
Weight	8.2 kg | 18.0 lb

General Specifications

Application	Waveguide bridge kit, 24 in
Includes	Channel support bracket | Hardware
Material Type	Hot dip galvanized steel
Mounting	Pipe, 88.9 mm (3-1/2 in) OD
Package Quantity	1

ICE BRIDGE DETAIL

NOT TO SCALE

1

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IRVING, TEXAS 75038
1-855-669-5421

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KIRK REED HALL
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FA#: 14431264

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SALT LAKE CITY, UT 84104
SALT LAKE COUNTY

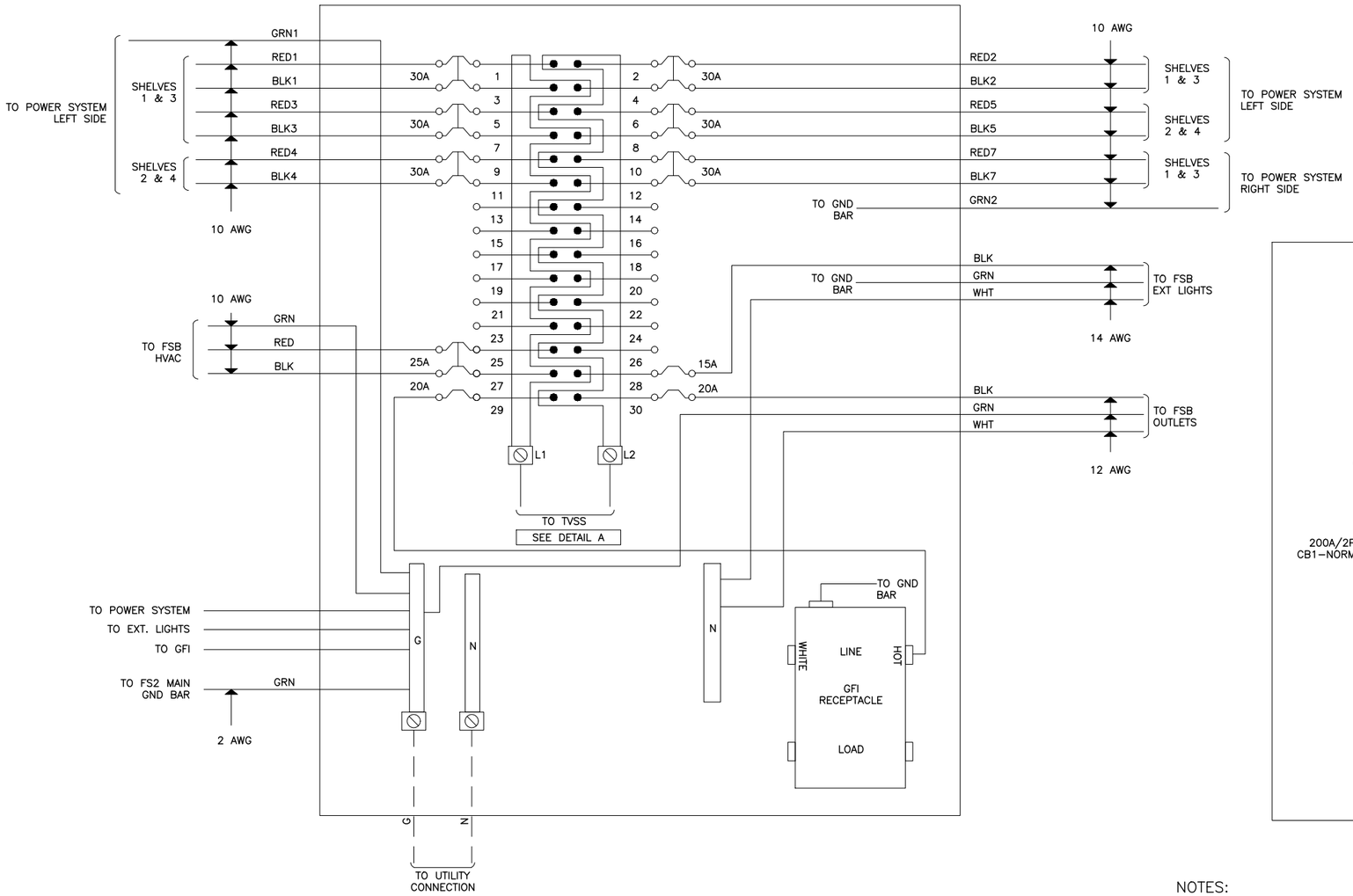
SHEET DESCRIPTION

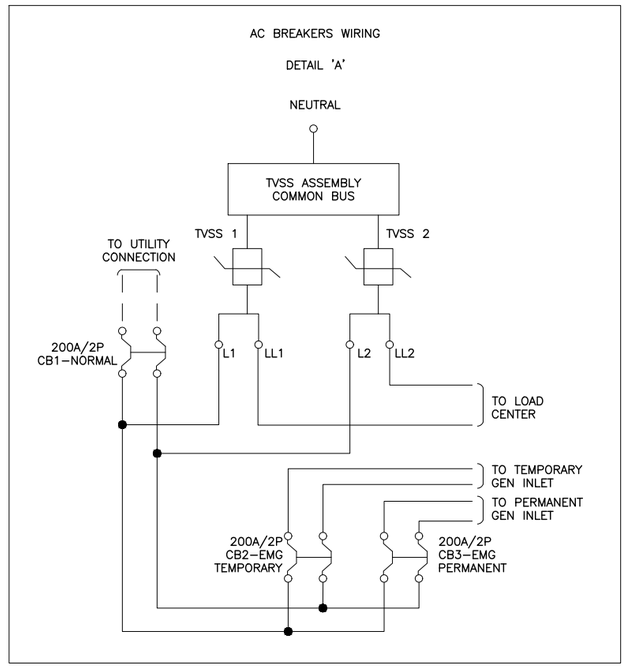
ICE BRIDGE DETAIL

SHEET NO.

D-14

AUTOMATIC TRANSFER SWITCH
(200A 1ϕ)





NOTES:

1. DO NOT SHARE NEUTRALS UNLESS OTHERWISE SPECIFIED.
2. WHEN AC & DC WIRING IS LOCATED IN THE SAME BOX, ENCLOSURE, OR WIREWAY, WIRES MUST BE LABELED WITH VOLTAGE TYPE.
3. DC VOLTAGE IS NEGATIVE FEED, CHANGE CONNECTION POINTS AT DEVICES SO THAT BLACK WIRES ARE CONNECTED TO POSITIVE(+) TERMINALS AND RED WIRES ARE CONNECTED TO NEGATIVE(–) TERMINALS.
4. ALL WIRES TO BE THHN TYPE RATED 90°C.
5. LABEL BREAKERS IN PTLC PANEL AS FOLLOWS:
   (1) BREAKER "GEN BLOCK HTR & BATT WARMER"
   (1) BREAKER "GEN BATT CHARGER"
6. LABEL EACH RECEPTACLE SAME AS IN PTLC PANEL.
7. OPTIONAL RECEPTACLE. USE ONLY WHEN REQUIRED.
8. ENSURE NEUTRAL & GROUND ARE NOT BONDED ON GENERATOR.

SWIC PANEL SCHEDULE | NOT TO SCALE | 1

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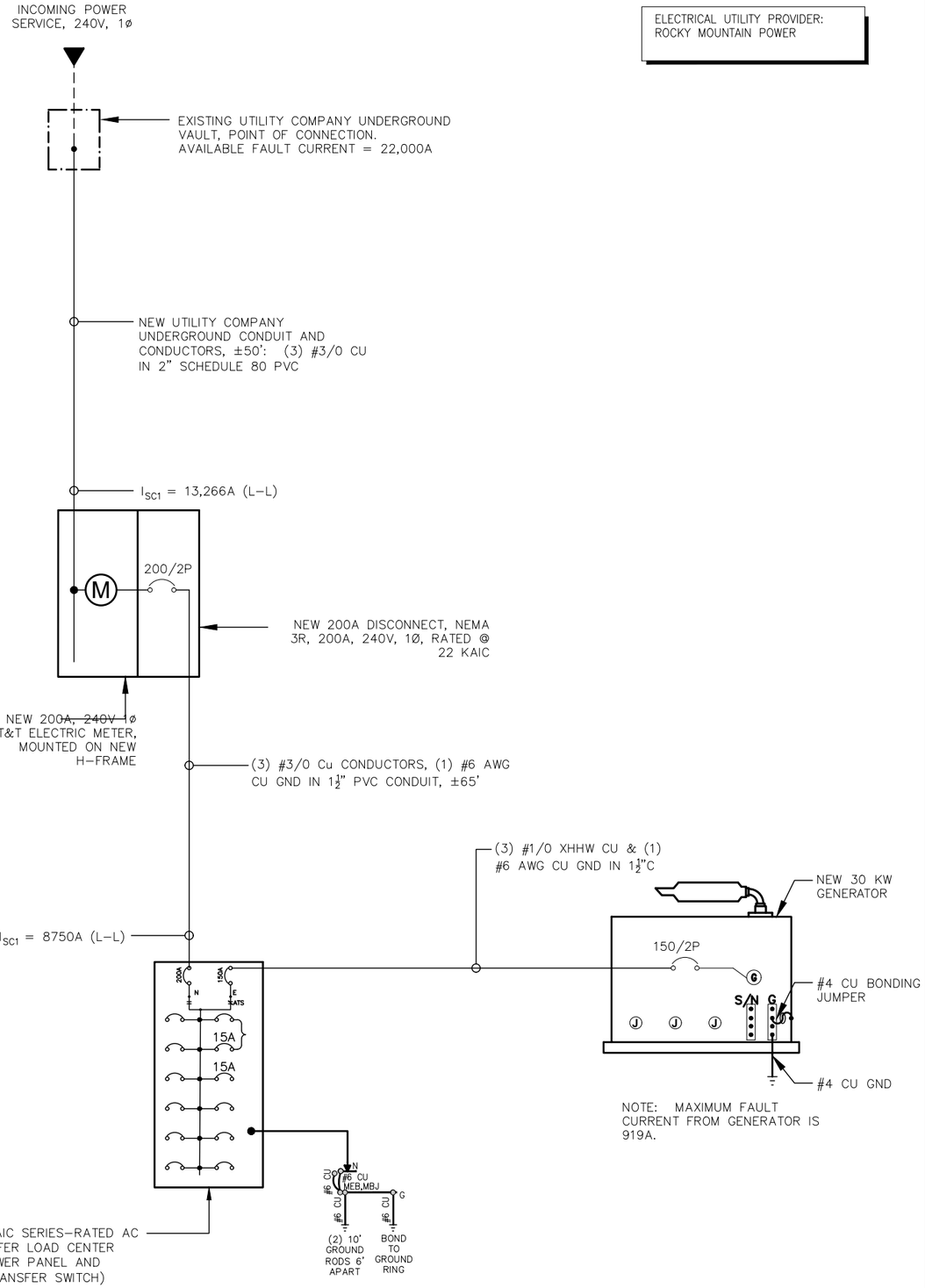
SHEET DESCRIPTION

SWIC PANEL SCHEDULE

SHEET NO.

E–1



SINGLE LINE DIAGRAM | NOT TO SCALE | 1

NOTES:

1) ALL CIRCUIT BREAKERS AND/OR FUSES SHALL BE SERIES RATED TO WITHSTAND THE MAXIMUM AVAILABLE FAULT CURRENT INDICATED. THE SERIES COMBINATION RATINGS SHALL BE MARKED ON THE EQUIPMENT BY THE MANUFACTURER IN ACCORDANCE WITH NEC ARTICLE 110.22 & 240.86.

2) PROVIDE WARNING LABELS PER N.E.C. 110.22 FOR BOTH THE PANEL AND MAIN DISCONNECT. THE MARKING SHALL BE READILY VISIBLE AND STATE THE FOLLOWING:
"CAUTION – SERIES COMBINATION SYSTEM RATED 22KAIC/10KAIC. IDENTIFIED REPLACEMENT COMPONENTS REQUIRED".

UTL01221 / LANDMARK WEST

AC POWER PANEL No. 001 (PROPOSED)
120/240 VOLTS, 1-PHASE, 3-WIRE, 200A

MAIN BREAKER RATING (A): 200 | SYSTEM VOLTAGE (V): 240

DESCRIPTION	VA	c/nc	BKR	POSN	L1	L2	POSN	BKR	c/nc	VA	DESCRIPTION
EMERSON RECTIFIERS #1 & #2	2000	nc	30	1	2240		2	20	nc	240	EXTERIOR LIGHTS
	2000	nc		3		2180	4	20	nc	180	EXTERIOR GFCI
EMERSON RECTIFIERS #3 & #4	2000	nc	30	5	2250		6	20	nc	250	GENERATOR BTTY CHARGER
	2000	nc		7		3000	8	20	nc	1000	GENERATOR BLOCK HEATER
EMERSON RECTIFIERS #5 & #6	2000	nc	30	9	2000		10				BLANK
	2000	nc		11		2000	12				BLANK
EMERSON RECTIFIERS #7 & #8	2000	nc	30	13	2000		14				BLANK
	2000	nc		15		2000	16				BLANK
FUTURE RECTIFIER (OFF)			30	17	0		18				BLANK
				19		0	20				BLANK
FUTURE RECTIFIER (OFF)			30	21	0		22				BLANK
				23		0	24				BLANK
BLANK				25	0		26				BLANK
BLANK				27		0	28				BLANK
BLANK				29	0		30				BLANK
BLANK				31		0	32				BLANK
BLANK				33	0		34				BLANK
BLANK				35		0	36				BLANK
BLANK				37	0		38				BLANK
BLANK				39		0	40				BLANK
BLANK				41	0		42				BLANK

PHASE TOTALS (VA):	8490	9180
CURRENT PER PHASE (A)	71	77
PANEL TOTAL (VA):	17670	

Amperes/phase cannot exceed main breaker rating
Legend: c = continuous, nc = non-continuous

PANEL CAPACITY (kVA):	48.0	CONNECTED LOAD (kVA):	17.7
PANEL LOADING (100% non-cont. load) (kVA):	17.7		
PANEL LOADING (125% continuous load) (kVA):	0.0		
PANEL LOADING (TOTAL) (kVA):	17.7		
SPARE CAPACITY (kVA):	30.3		

NOTES:
1. FURNISH PANEL DIRECTORY.

PROPOSED AC PANEL SCHEDULE

AC LINE-LINE FAULT CURRENT CALCULATIONS
NOTE: CALCULATIONS BASED UPON THE POINT-TO-POINT METHOD

ENTER THE FOLLOWING INPUTS:		
AVAILABLE FAULT CURRENT, FROM GOVERNING UTILITY COMPANY (LEAVE BLANK IF UNKNOWN)	22000	AMPS
FAULT CURRENT AT TRANSFORMER		
SHORT CIRCUIT CURRENT RMS SYMMETRICAL	22000	AMPS
LINE-LINE FAULT CURRENT AT SECONDARY: $I_{SC(L-L)} = I_{(L-L)}$/TOTAL IMPEDANCE	**22000**	**AMPS**
LINE-NEUTRAL FAULT CURRENT AT SECONDARY: $I_{SC(L-N)} = I_{(L-N)}$/TOTAL IMPEDANCE	**22000**	**AMPS**
FAULT CURRENT AT DISCONNECT SWITCH / METER		
CABLE LENGTH FROM TRANSFORMER TO DISCONNECT ("L")	50	FEET
TYPE OF CABLE ("Cu" FOR COPPER, "Al/u" FOR ALUMINUM)	Cu	1 CORE CABLE
SYSTEM VOLTAGE (LINE-LINE)	240	VOLTS
VOLTAGE SYSTEM, NUMBER OF PHASES	1	
SYSTEM VOLTAGE (LINE-NEUTRAL)	120	VOLTS
NUMBER OF CONDUCTORS PER PHASE ("N")	1	
CABLE SIZE, AWG	#3/0	
PHASE CONDUCTOR CROSS-SECTIONAL AREA (CIRCULAR MILS)	167800	
ENTER NEUTRAL CONDUCTOR CROSS-SECTIONAL AREA (CIRCULAR MILS). *IF DIFFERENT FROM CONDUCTOR SIZE*	167800	
TYPE OF RACEWAY	NONMAGNETIC	
PHASE CONDUCTOR CONSTANT ("C_1")	13923	
NEUTRAL CONDUCTOR CONSTANT ("C_2")	13923	
$F_{1(L-L)}$: $F_{1(L-L)}=(2 \times L \times I_{SC})/(C_1 \times N \times V_{(L-L)})$. SINGLE-PHASE OR $=(1.732 \times L \times I_{SC})/(C1 \times N \times V_{(L-L)})$. THREE-PHASE	0.6584	
$F_{2(L-N)}$: $F_{2(L-N)}=(2 \times L \times I_{SC})/(C_2 \times N \times V_{(L-N)})$. SINGLE-PHASE OR $=(1.732 \times L \times I_{SC})/(C2 \times N \times V_{(L-N)})$. THREE-PHASE	1.3168	
$M_{1(L-L)}$: $M_1=(1/(1+F_1))$	0.6030	
$M_{2(L-N)}$: $M_2=(1/(1+F_2))$	0.4316	
LINE-LINE FAULT CURRENT AT DISCONNECT SWITCH / METER: [ISC,L-L x M1]	**13266**	**AMPS**
LINE-NEUTRAL FAULT CURRENT AT DISCONNECT SWITCH / METER: [ISC,L-N x M2]	**9496**	**AMPS**
FAULT CURRENT AT NEW AC POWER PANEL		
CABLE LENGTH FROM DISCONNECT SWITCH / METER TO NEW AC POWER PANEL ("L")	65	FEET
TYPE OF CABLE ("Cu" FOR COPPER, "Al/u" FOR ALUMINUM)	Cu	1 CORE CABLE
SYSTEM VOLTAGE (LINE-LINE)	240	VOLTS
VOLTAGE SYSTEM, NUMBER OF PHASES	1	
SYSTEM VOLTAGE (LINE-NEUTRAL)	120	VOLTS
NUMBER OF CONDUCTORS PER PHASE ("N")	1	
CABLE SIZE, AWG	#3/0	
PHASE CONDUCTOR CROSS-SECTIONAL AREA (CIRCULAR MILS)	167800	
TYPE OF RACEWAY	NONMAGNETIC	
PHASE CONDUCTOR CONSTANT ("C_1")	13923	
NEUTRAL CONDUCTOR CONSTANT ("C_2")	13923	
$F_{1(L-L)}$: $F_{1(L-L)}=(2 \times L \times I_{SC})/(C_1 \times N \times V_{(L-L)})$. SINGLE-PHASE OR $=(1.732 \times L \times I_{SC})/(C1 \times N \times V_{(L-L)})$. THREE-PHASE	0.5161	
$F_{2(L-N)}$: $F_{2(L-N)}=(2 \times L \times I_{SC})/(C_2 \times N \times V_{(L-N)})$. SINGLE-PHASE OR $=(1.732 \times L \times I_{SC})/(C2 \times N \times V_{(L-N)})$. THREE-PHASE	0.7389	
$M_{1(L-L)}$: $M_1=(1/(1+F_1))$	0.6596	
$M_{2(L-N)}$: $M_2=(1/(1+F_2))$	0.5751	
LINE-LINE FAULT CURRENT AT NEW AC POWER PANEL: [ISC,L-L x M1]	**8750**	**AMPS**
LINE-NEUTRAL FAULT CURRENT AT NEW AC POWER PANEL: [ISC,L-N x M2]	**5461**	**AMPS**

FAULT CALCULATIONS | NOT TO SCALE | 2

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IRVING, TEXAS 75038
1-855-669-5421

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REGISTERED PROFESSIONAL ENGINEER
No. 5088359-2202
KIRK REED HALL
STATE OF UTAH

1-21-2020

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UTL01221

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FA#: 14431264

SITE ADDRESS:

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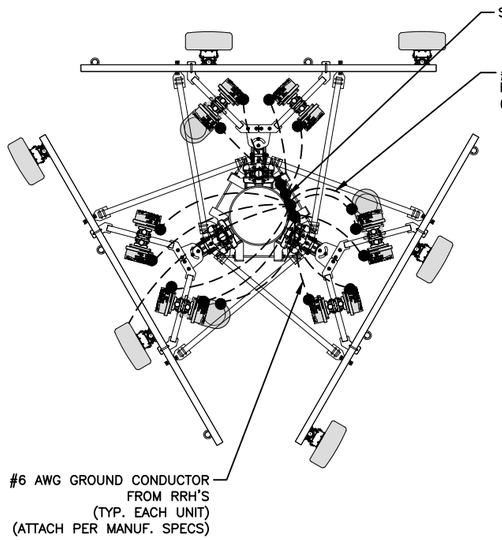
SALT LAKE CITY, UT 84104
SALT LAKE COUNTY

SHEET DESCRIPTION

SINGLE LINE DIAGRAM AND FAULT CALCULATIONS

SHEET NO.

E-2



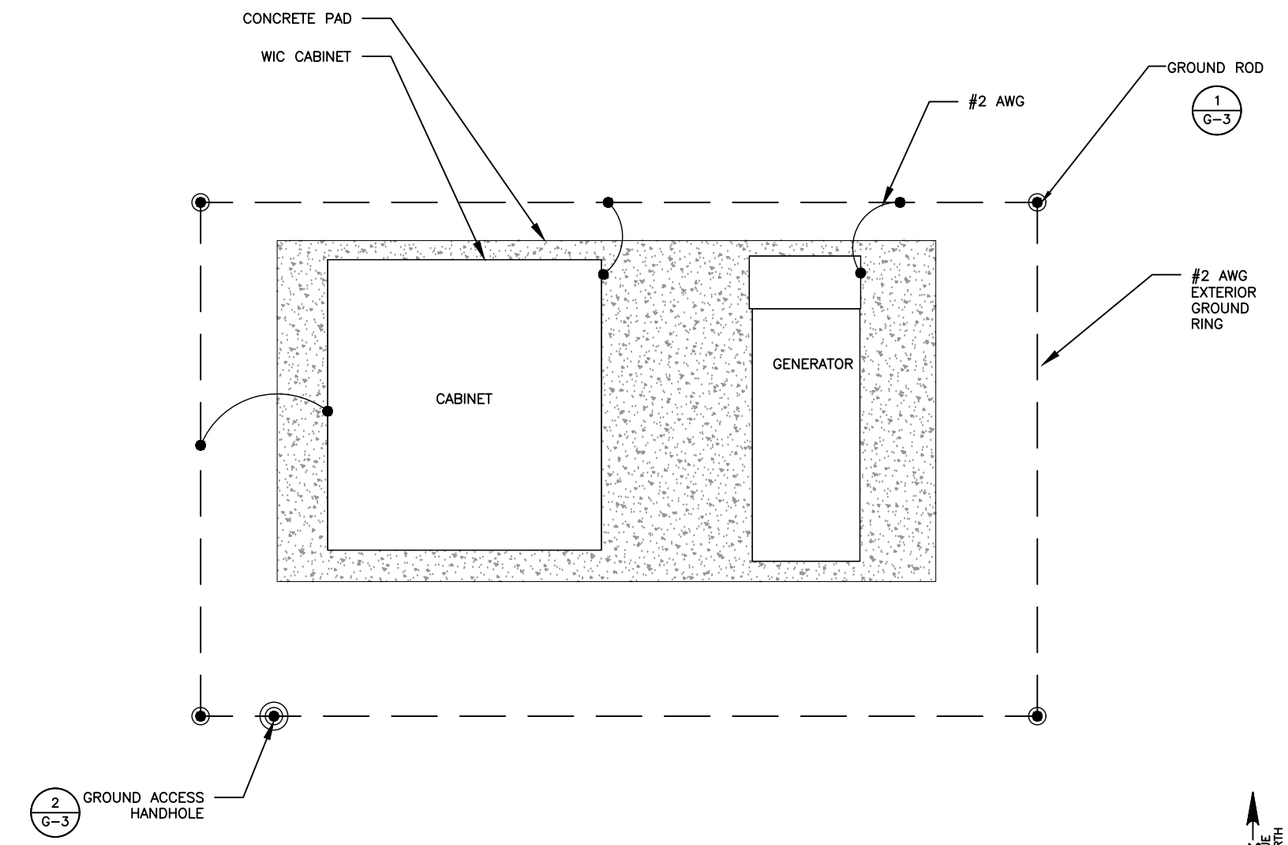
GROUNDING LEGEND	
●	MECHANICAL CONNECTION
■	EXOTHERMIC CONNECTION
▬	SECTOR GROUND BAR
— — —	GROUND WIRE

TRUE NORTH

ANTENNA GROUNDING PLAN

NOT TO SCALE

1



NOTES:

1. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
2. APPROVED ANTIOXIDANT COATINGS (I.E., CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
3. MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.
4. METAL CONDUIT AND TRAY SHALL BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH 6 AWG COPPER WIRE AND UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.
5. GROUND CONDUCTORS USED IN THE FACILITY GROUND AND LIGHTNING PROTECTION SYSTEMS SHALL NOT BE ROUTED THROUGH METALLIC OBJECTS THAT FORM A RING AROUND THE CONDUCTOR, SUCH AS METALLIC CONDUITS, METAL SUPPORT CLIPS OR SLEEVES THROUGH WALLS OR FLOORS. WHEN IT IS REQUIRED TO BE HOUSED IN CONDUIT TO MEET CODE REQUIREMENTS OR LOCAL CONDITIONS, NON-METALLIC MATERIAL SUCH AS PVC PLASTIC CONDUIT SHALL BE USED. WHERE USE OF METAL CONDUIT IS UNAVOIDABLE (E.G., NON-METALLIC CONDUIT PROHIBITED BY LOCAL CODE) THE GROUND CONDUCTOR SHALL BE BONDED TO EACH END OF THE METAL CONDUIT.
6. ANY EQUIPMENT, BOX, SKID TO BE GROUNDED AND DOES NOT HAVE A DESIGNATED GROUND CONNECTION SHALL BE DRILLED AS NECESSARY TO CONNECT A GROUND WIRE. REMOVE PAINT IN AREA UNDER LUG. APPLY ANTI-OXIDANT COMPOUND AND CONNECT WITH TWO-HOLE, COMPRESSION LUG.
7. GROUND BARS SHALL BE TINNED COPPER AND SHALL BE ENGRAVED OR IMPRESSED "STOLEN-DO NOT RECYCLE" AND/OR "PROPERTY OF AT&T", ETCHED OR STAMPED WITH SITE FA LOCATION AND SECURED WITH ANTI-THEFT HARDWARE.
8. THE SUBCONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING FOR GROUND ELECTRODE SYSTEMS. TESTING SHALL BE IN ACCORDANCE WITH IEEE STD 81.
9. THE SUBCONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS. WHEN ADDING ELECTRODES, CONTRACTOR SHALL MAINTAIN A MINIMUM DISTANCE BETWEEN THE ADDED ELECTRODE AND ANY OTHER EXISTING ELECTRODE EQUAL TO THE BURIED LENGTH OF THE ROD. IDEALLY, CONTRACTOR SHALL STRIVE TO KEEP THE SEPARATION DISTANCE EQUAL TO OR LESS THAN TWICE THE BURIED LENGTH OF THE RODS.
10. METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPMENT.
11. ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
12. EACH INTERIOR COMMUNICATION CABINET FRAME/PLINTH SHALL BE ELECTRICALLY ISOLATED FROM GROUNDS AND SHALL BE DIRECTLY CONNECTED TO THE CELL REFERENCE GROUND BAR WITH 6 AWG OR LARGER STRANDED, GREEN INSULATED GROUND WIRES.
13. GROUND WIRING INSTALLED OUTDOOR EXPOSED SHALL BE 600V, GREEN SUNLIGHT RESISTANT UL LISTED TYPE THW OR THWN OR XHHW, ANNEALED, TINNED, OR UN-TUNNED CLASS B OR CLASS I STRANDED COPPER, SIZE 6 UNLESS OTHERWISE SPECIFIED.
14. GROUND RODS SHOULD BE SPACED AT APPROXIMATELY TWICE THEIR LENGTH AS PER ATT-TP-76416 SPECIFICATIONS.

WIC SHELTER GROUNDING LAYOUT PLAN

0 1' 2' 3'

SCALE: 3/8"=1'-0" (11x17)
(OR) 3/4"=1'-0" (22x34)

2

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1300 S 5600 W

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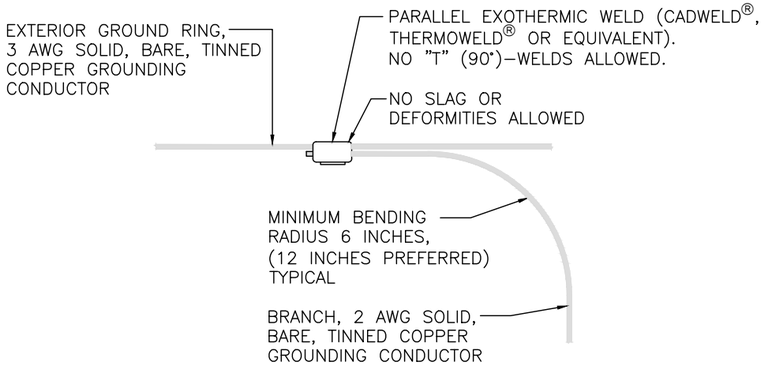
SALT LAKE CITY, UT 84104
SALT LAKE COUNTY

SHEET DESCRIPTION

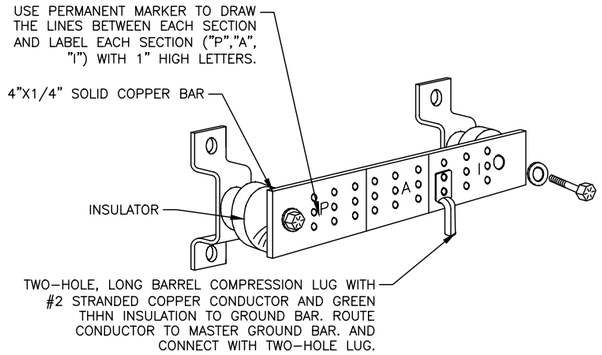
GROUNDING PLAN

SHEET NO.

G-1



TYPICAL EXTERIOR GROUND RING CONNECTION | NOT TO SCALE | 1

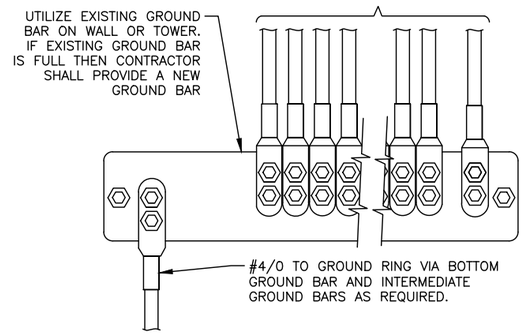


EACH GROUND CONDUCTOR TERMINATING ON ANY GROUND BAR SHALL HAVE AN IDENTIFICATION TAG ATTACHED AT EACH END THAT WILL IDENTIFY ITS ORIGIN AND DESTINATION.

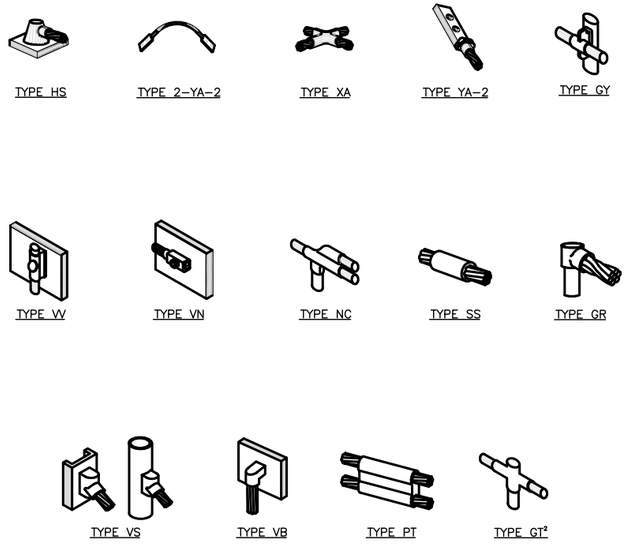
SECTION "P" – SURGE PRODUCERS

CABLE ENTRY PORTS (HATCH PLATES)
GENERATOR FRAMEWORK (IF AVAILABLE)
TELCO GROUND BAR
COMMERCIAL POWER COMMON NEUTRAL/GROUND BOND
+24V POWER SUPPLY RETURN BAR (#2)
–48V POWER SUPPLY RETURN BAR (#2)
RECTIFIER FRAMES

GROUND BAR | NOT TO SCALE | 2



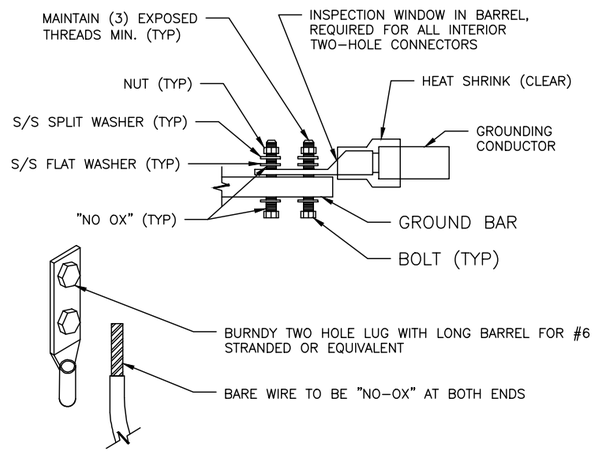
SECTOR GROUND BAR | NOT TO SCALE | 3



NOTE:

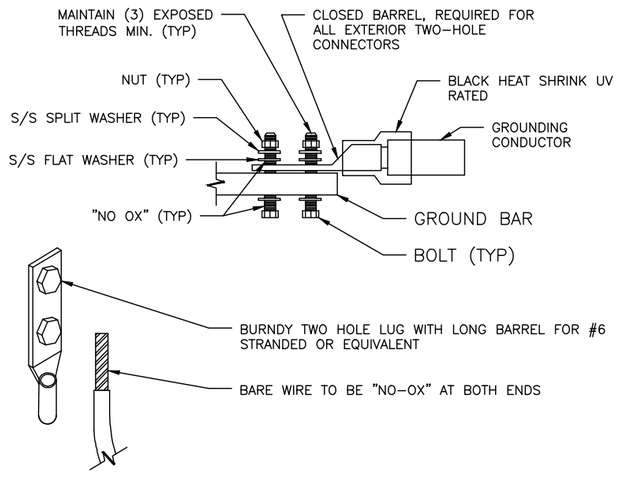
1. ERICO EXOTHERMIC "MOLD TYPES" SHOWN HERE ARE EXAMPLES. CONSULT WITH CONSTRUCTION MANAGER FOR SPECIFIC MOLDS TO BE USED FOR THIS PROJECT.
2. MOLD TYPE ONLY TO BE USED BELOW GRADE WHEN CONNECTING GROUND RING TO GROUND ROD.

CADWELD GROUNDING CONNECTIONS | NOT TO SCALE | 4



NOTES:
1. ALL HARDWARE SHALL BE 18–8 STAINLESS STEEL.
2. COAT ALL SURFACES WITH ANTIOXIDANT COMPOUND BEFORE MATING.
3. ALL EXPOSED EASILY ACCESSIBLE GROUND BARS SHALL BE TAGGED "DO NOT DISCONNECT".
4. COAT ALL BARRELS WITH ANTIOXIDANT BEFORE CRIMPING.

INTERIOR GROUND BAR LUG | NOT TO SCALE | 5



NOTES:
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2. COAT ALL SURFACES WITH ANTIOXIDANT COMPOUND BEFORE MATING.
3. ALL EXPOSED EASILY ACCESSIBLE GROUND BARS SHALL BE TAGGED "DO NOT DISCONNECT".
4. COAT ALL BARRELS WITH ANTIOXIDANT BEFORE CRIMPING.

EXTERIOR GROUND BAR LUG | NOT TO SCALE | 6

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REGISTERED PROFESSIONAL ENGINEER
No. 5088359-2202
KIRK REED HALL
STATE OF UTAH

1-21-2020

SITE INFORMATION

LTE 1C/2C/3C/4C/5C/6C

UTL01221

1300 S 5600 W

FA#: 14431264

SITE ADDRESS:

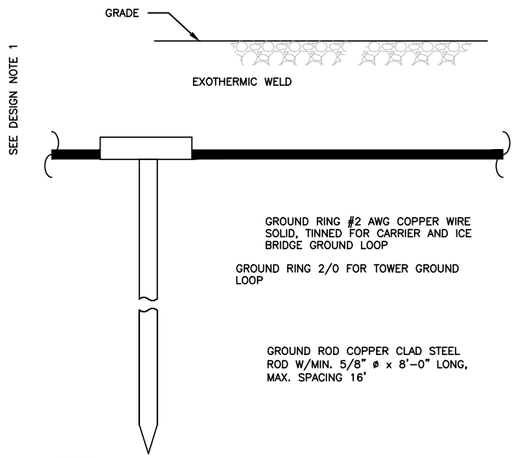
1550 SOUTH 5600 WEST,
SALT LAKE CITY, UT 84104
SALT LAKE COUNTY

SHEET DESCRIPTION

GROUNDING DETAILS

SHEET NO.

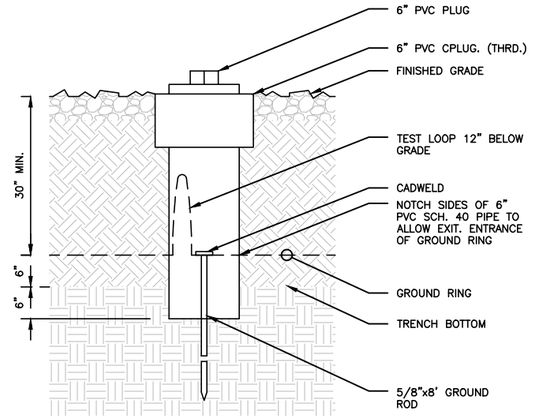
G–2



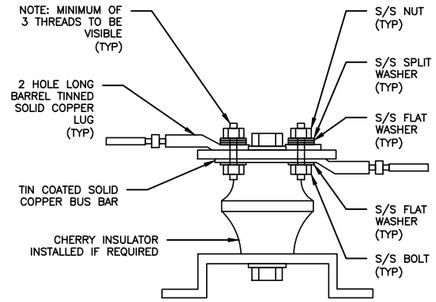
NOTES:

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

GROUND ROD | NOT TO SCALE | 1

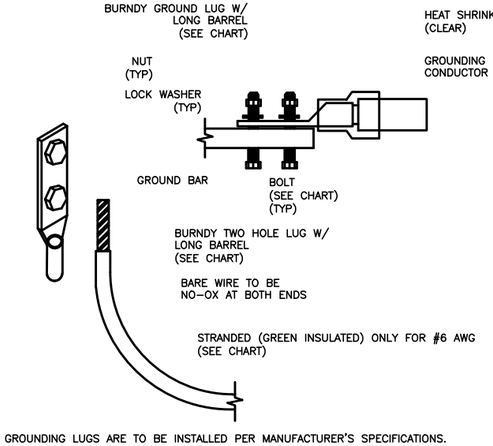


GROUND ROD WITH TEST WELL | NOT TO SCALE | 2



LUG DETAIL | NOT TO SCALE | 3

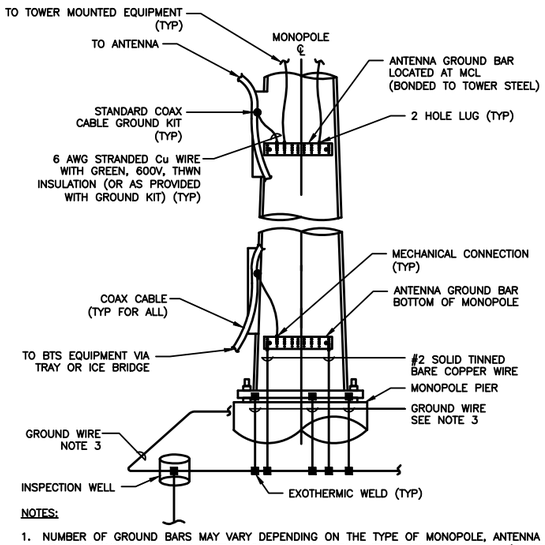
WIRE SIZE	BURNDY LUG	BOLT SIZE
#6 AWG GREEN INSULATED	YA6C-2TC38	3/8" - 16 NC S 2 BOLT
#2 AWG SOLID TINNED	YA3C-2TC38	3/8" - 16 NC S 2 BOLT
#2 AWG STRANDED	YA2C-2TC38	3/8" - 16 NC S 2 BOLT
#2/0 AWG STRANDED	YA26-2TC38	3/8" - 16 NC S 2 BOLT
#4/0 AWG STRANDED	YA28-2N	1/2" - 16 NC S 2 BOLT



NOTES:

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

MECHANICAL LUG CONNECTION | NOT TO SCALE | 4



NOTES:

1. NUMBER OF GROUND BARS MAY VARY DEPENDING ON THE TYPE OF MONOPOLE, ANTENNA LOCATION AND CONNECTION ORIENTATION. COAXIAL CABLES EXCEEDING 200 FEET IN/ON THE POLE SHALL HAVE GROUND KITS AT THE MIDPOINT. PROVIDE AS REQUIRED.
2. ONLY MECHANICAL CONNECTIONS ARE ALLOWED TO BE MADE TO CROWN CASTLE TOWERS. ALL MECHANICAL CONNECTIONS SHALL BE TREATED WITH AN ANTI-OXIDANT COATING.
3. ALL TOWER GROUNDING SYSTEMS SHALL COMPLY WITH THE REQUIREMENTS OF ANSI/TIA 222 AND NFPA 780. FOR TOWERS BEING BUILT TO REV G OF THE STANDARD, THE WIRE SIZE OF THE BURIED GROUND RING AND CONNECTIONS BETWEEN THE TOWER AND THE BURIED GROUND RING SHALL BE 2/0 AWG. STRANDED IN ADDITION, THE MINIMUM LENGTH OF THE GROUND RODS SHALL BE INCREASED FROM 8 FEET TO 10 FEET.

TYPICAL ANTENNA CABLE GROUNDING | NOT TO SCALE | 5

NOT USED | NOT TO SCALE | 6

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SHEET DESCRIPTION

GROUNDING DETAILS

SHEET NO.

G-3

ATTACHMENT D: EXISTING CONDITIONS & DEVELOPMENT STANDARDS

Adjacent Land Uses and Zoning

- North: OS (Open Space) zoning, future Mountain View Corridor and M-1 (Light Manufacturing), container storage
- South: OS (Open Space) and M-1 (Light Manufacturing) – Street and undeveloped land
- East: CG (General Commercial) – Vacant and manufacturing
- West: OS (Open Space) – Future Mountain View Corridor

The property is located on the west side of 5600 West and is approximately one-half mile north of S.R. 201. The land to the west is owned by UDOT and is under construction for the future Mountain View Corridor. Adjacent properties are generally undeveloped or have been developed for a variety of industrial, manufacturing and warehouse uses. There are no residential uses in or near the vicinity. The former Cannon Pioneer Landfill is located to the northeast and the Lee Kay Ponds are located to the west, west of the future Mountain View Corridor.

Applicable Master Plan Policies

The property is included within the *Northwest Quadrant Master Plan* adopted in 2016. The Master Plan recognizes the area in which the property is located as being industrial in nature which is reflected in the M-1 (Light Industrial) zoning designation of the property.

The Future Land Use Map found in the plan anticipates that the area will continue to be light industrial in nature which is described in the plan as follows:

> *Light Industrial: light industrial areas include uses that produce little or no pollution but require a lot of land. Uses such as warehousing, manufacturing, food production, assembly, and other similar uses are commonly found in the light industrial areas. Uses that require outdoor storage of new, clean materials are generally acceptable. Light industrial areas also include support services, such as restaurants, limited retail, fuel centers, and other uses necessary to support the light industrial uses.*

The proposed use is consistent with the Master Plan and the existing character of the area. Locating the proposed use on the site, increasing the intensity of its usage, as well as near a future transportation corridor, is consistent with Development Areas Goal 4: Promote the Infill and Redevelopment of Underutilized Areas.

Salt Lake City Zoning Ordinance Provisions

21A.40.090: ANTENNA REGULATIONS:
E. Wireless Telecommunications Facilities
Monopoles greater than 60 feet in height in the M-1 Zone require Conditional Use approval.

Consistent with this requirement, the proposed 80-foot monopole is going through the Conditional Use process. The applicant states that an attempt was made to collocate on a pole 0.25 miles to the north, but the applicant was unable to secure the necessary ground space for their equipment.

ATTACHMENT E: ANALYSIS OF STANDARDS

21A.54.080 Standards for Conditional Use

Approval Standards: A conditional use shall be approved unless the planning commission, or in the case of administrative conditional uses, the planning director or designee, concludes that the following standards cannot be met:

Standard	Finding	Rationale
1. The use complies with applicable provisions of this title	**Complies**	**See detailed analysis below.**
2. The use is compatible, or with conditions of approval can be made compatible, with surrounding uses	**Complies**	**See detailed analysis below.**
3. The use is consistent with applicable adopted city planning policies, documents, and master plans	**Complies**	**See detailed analysis below.**
4. The anticipated detrimental effects of a proposed use can be mitigated by the imposition of reasonable conditions	**Complies**	**See detailed analysis below.**

1. **The use complies with applicable provisions of this title**

   Analysis: The proposed wireless facility will be constructed on a property in the M-1 zoning district. Wireless facilities including a monopole are permitted in the zoning district with a maximum monopole height of 60-feet. Per section 21A.40.090.E of the Zoning Ordinance, all monopoles taller than 60 feet in the M-1 zone require Conditional Use approval. The proposed monopole will be 80-feet tall which necessitates that it be reviewed as a Conditional Use.

   Finding: The proposal complies with the applicable provisions of the Salt Lake City Zoning Ordinance, provided that the request meets the conditions recommended as part of this staff report.

2. **The use is compatible, or with conditions of approval can be made compatible, with surrounding uses;**

   Analysis: The proposed wireless facility will be located within an industrial area of the city, surrounded by properties that are used or expected to be used for a variety of industrial uses. The property is also adjacent to the future Mountain View Corridor. The area is expected to have additional growth and development. The height of the proposed monopole is consistent with the height of other columnar structures allowed by right in the zoning district.

   Finding:
   Given the industrial nature of the area and activities that take place in the general vicinity, no detrimental impacts either visually, or otherwise are anticipated to neighboring properties. The proposal is compatible with the nature of the area.

3. **The use is consistent with applicable adopted city planning policies, documents, and master plans; and**

   Analysis: The Northwest Quadrant Master Plan recognizes the area as being industrial in nature. The future land use map in that plan shows that this area is anticipated to remain "light industrial" in the future.

   Finding: The use is consistent with the adopted Northwest Quadrant Master Plan and the character of the area. The proposed use is listed as a conditional use in this zoning district.

4. **The anticipated detrimental effects of a proposed use can be mitigated by the imposition of reasonable conditions.** (Refer to Detrimental Effects Table below for details)

21a.54.080B: Detrimental Effects Determination: In analyzing the anticipated detrimental effects of a proposed use, the planning commission, or in the case of administrative conditional uses, the planning director or designee, shall determine compliance with each of the following:

Criteria	Finding	Rationale
1. This title specifically authorizes the use where it is located	**Complies**	A monopole up to 60-feet is allowed as a permitted use. The proposed monopole is 80-feet in height which requires conditional use approval. If the conditional use is approved according to the Zoning Ordinance process and all required standards, the proposal will not create a detrimental effect.
2. The use is consistent with applicable policies set forth in adopted citywide, community, and small area master plans and future land use maps	**Complies**	The use is located in an area zoned and designated by the associated master plan as "light industrial" (see analysis from standard 3 above).
3. The use is well-suited to the character of the site, and adjacent uses as shown by an analysis of the intensity, size, and scale of the use compared to existing uses in the surrounding area	**Complies**	Surrounding the proposed wireless facility are a variety of industrial and commercial uses such as trucking, shipping, storage and the future Mountain View Corridor. The use is well suited to the character of the site. The antenna will provide service connectivity to property owners, businesses, and those traveling through the area.
4. The mass, scale, style, design, and architectural detailing of the surrounding structures as they relate to the proposed have been considered	**Complies**	There are few surrounding structures and, while taller in height, the proposed facility will be not be intrusive to the mass, scale, and style of other structures in the area.
5. Access points and driveways are designed to minimize grading of natural topography, direct vehicular traffic onto major streets, and not impede traffic flows	**Complies**	The proposal will have no traffic impact.
6. The internal circulation system is designed to mitigate adverse impacts on adjacent property from motorized, non-motorized, and pedestrian traffic	**Complies**	The proposal will have no traffic impact.
7. The site is designed to enable access and circulation for pedestrian and bicycles	**Complies**	The proposal will have no traffic impact.
8. Access to the site does not unreasonably impact the service level of any abutting or adjacent street	**Complies**	The proposal will have no traffic impact.

9. The location and design of off-street parking complies with applicable standards of this code	**Complies**	The proposal will not require additional off-street parking.
10. Utility capacity is sufficient to support the use at normal service levels	**Complies**	The proposal will not require additional utility capacity.
11. The use is appropriately screened, buffered, or separated from adjoining dissimilar uses to mitigate potential use conflicts	**Complies**	The proposal will not change the land use.
12. The use meets City sustainability plans, does not significantly impact the quality of surrounding air and water, encroach into a river or stream, or introduce any hazard or environmental damage to any adjacent property, including cigarette smoke	**Complies**	The proposal will not significantly impact the environment or introduce any hazard.
13. The hours of operation and delivery of the use are compatible with surrounding uses	**Complies**	The equipment will be routinely serviced by a technician as needed for maintenance and repair.
14. Signs and lighting are compatible with, and do not negatively impact surrounding uses	**Complies**	The proposal will not require signs and lighting.
15. The proposed use does not undermine preservation of historic resources and structures	**Complies**	The proposal is not associated with any historic resources or structures.

Section 21A.40.090.E.9 – Additional Conditional Use Requirements
In addition to conditional use standards outlined in Section 21A.54 (above) of the zoning ordinance; the following shall be considered by the Planning Commission:

a. Compatibility of the proposed structure with the height and mass of existing buildings and utility structures;
b. Whether collocation of the antenna on the other existing structures in the same vicinity such as other towers, buildings, water towers, utility poles, etc., is possible without significantly impacting antenna transmission or reception;
c. The location of the antenna in relation to existing vegetation, topography and buildings to obtain the best visual screening;
d. Whether the spacing between monopoles and lattice towers creates detrimental impacts to adjoining properties.

Analysis: Surrounding the proposed monopole are a variety of uses including a large warehouse, vacant property, other light industrial uses, and the future Mountain View Corridor. Monopoles and other wireless equipment installations are common in industrial areas of the City where they are needed to provide services to businesses in the area. There are generally few if any concerns with compatibility of wireless facilities in these areas. At 80-feet in height, the proposed monopole will be built at a height that is consistent with the permitted height of other columnar structures allowed by right in zoning district.

The applicant states that an attempt was made to collocate on a nearby tower, but was unable to secure the necessary ground space. Visual screening in this area is difficult since there are few buildings of this height in the vicinity and the topography is generally flat. The area is not intensively developed and the spacing between towers would not have a detrimental impact to adjoining properties.

Finding: This project satisfies the additional requirements of Section 21A.40.090.E.9.

ATTACHMENT F: PUBLIC PROCESS AND COMMENTS

Public Notice, Meetings, Comments

The following is a list of public meetings that have been held, and other public input opportunities, related to the proposed project:

- Notice of the project and request for comments sent to the Glendale Community Council on November 13, 2020 in order to solicit comments. Staff and the applicant attended a Zoom meeting on December 16, 2020 and attendees commented that it should have stealth features and raised questions about its location near the Lee Kay Ponds. Letter from the Community Council is attached.
- Staff sent an early notification announcement of the project to all residents and property owners located within 300 feet of the project site on November 13, 2020 providing notice about the project and information on how to give public input on the project.
- The 45-day recognized organization comment period expired on December 28, 2020.

Notice of the public hearing for the proposal included:

- Public hearing notice mailed: December 29, 2020
- Public hearing notice sign posted on the property: December 29, 2020
- Public notice posted on City and State websites & Planning Division list serv: December 29, 2020

December 29, 2020

Salt Lake City Planning Division
451 S State St
Rm 406
PO Box 145480
Salt Lake City UT 84114-5480

RE: Petition Number: PLNPCM2020-008

To Whom It May Concern:

It is my pleasure to submit this letter on behalf of the Glendale Community Council. After the discussion at our last community council meeting, we would like to request that the proposed tower be designed in a way that is more sensitive to nearby wildlife and community identity.

Specifically, if it is possible, we would like to request that the proposed tower be designed with the following goals in mind:

1) Stealthing or design that prioritizes community identity.
2) Dark Sky certification

Although the area is largely industrial, it remains a part of our neighborhood. Many of the people who live in Glendale work in industries represented on the westside of the neighborhood. We believe that all parts of our neighborhood should celebrate our community's identity.

Thank you for the opportunity to weigh in on the development. We greatly appreciate the opportunity to engage in discussions affecting our neighborhood.

Thank you,

Turner C. Bitton
Chair, Glendale Community Council

Glendale Community Council
1375 S. Concord Street
Salt Lake City, UT 84104

ATTACHMENT G: DEPARTMENT REVIEW COMMENTS

Zoning – Katilynn Harris, katilynn.harris@slcgov.com
Review for compliance to 21A.40.090E standards.
Table note 4: Not located in the eco-industrial buffer area of the NWQ overlay.
E2.d. Maximum visible width of antennas and antenna mounting structure shall not exceed 8' in height and 13' in width. Dimensions of the support structure and antennas are not provided.
E3.b. Electrical equipment and monopole are located on private property in the buildable area (there are no required rear and interior side yards). Not located between the front building facade and the street. Lot does not have a corner side yard.
E6. The monopole and equipment area are not located in any required landscape area or buffer area. They are located in a parking area but it is unclear whether this is required parking or additional parking beyond the required minimum.
E9. Conditional use requirements are not clearly addressed on the plans for the planning commission's consideration.
E10. Accessory buildings comply with M1 setbacks, height, and landscaping requirements. The equipment compound and monopole are within the fenced lease area. Fence is chain link, height is not specified on the plans. There appears to be barbed wire atop the fence which is a permitted use in this zone (see 21A.40.120.I). Plans do not detail climbing pegs or if they are to be removed up to 20'. Plans appear to show the power lines underground.

Engineering – Scott Weiler, scott.weiler@slcgov.com
Engineering has no objections to this CU on private property.

Transportation – Michael Barry, Michael.barry@slcgov.com
Transportation has no objections to this monopole.

Fire – Douglas Bateman, douglas.bateman@slcgov.com
Fire department access roads shall be designed to withstand the loads of the fire apparatus (80,000 pounds). The road shall be designed to HS20 or greater.

Fire department access roads shall be a minimum of 20 foot clear width and 13 foot 6 inches clear height for structures which measured from the lowest fire department access road to the highest occupied floor is less than 30 foot.

Fire hydrants shall be within 600 feet of all exterior walls of the unoccupied structure.

The minimum road width if provided shall have signs placed on both sides of the access road that are 12 inches in width and 18 inches in height and have red letters on a reflective white background station "No Parking Fire Lane".

Fire Department access roads that are dead ends greater than 150 feet shall be provide with a turn-around.

The turning radius of fire department access roads are 45 foot outside and 20 foot inside. Please note that signs place on the perimeter of the outside turning radius shall be placed additional 5 foot from the curb.

When gates are provided and cross a fire department access road then the gates shall be a minimum of 20 foot clear width and 13 foot 6 inches clear height.

Security gates shall be provided with a knox box for firefighter access

SLC Airport – David Miller, david.miller@slcgov.com
The address is in the Salt Lake City's airport influence zone "C" and listed as an area exposed to moderate levels of aircraft noise and having specific height restrictions. Salt Lake City requires an avigation easement for new development in this zone. The owner or developer should contact me at the address or email below, to complete the avigation easement if one has not already been created. The height restrictions would be approximately 150' above ground level.

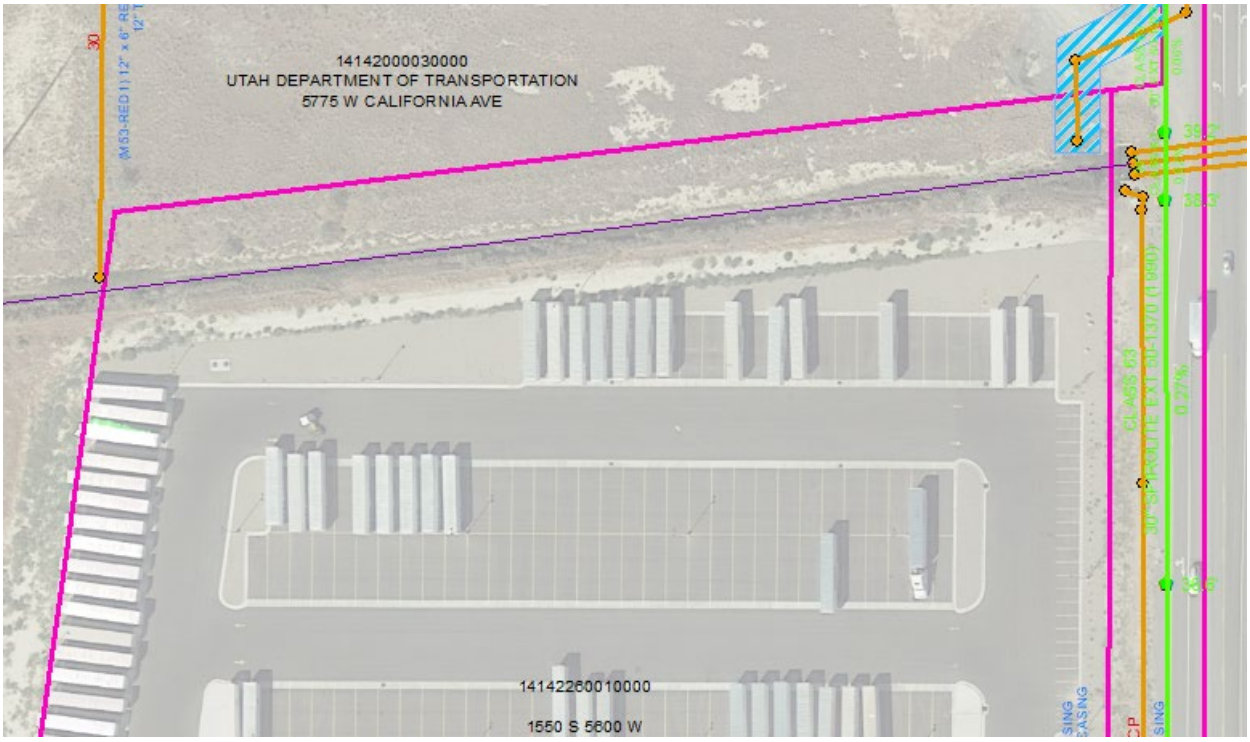
David Miller, C.M.

Airport Senior Planner
Salt Lake City Department of Airports
P.O. Box 145550
Salt Lake City, UT 84114-5550
801.575.2972
david.miller@slcgov.com

Public Utilities – Jason Draper, jason.draper@slcgov.com, and Karryn Greenleaf, Karryn.greenleaf@slcgov.com
The onsite storm drain needs to be shown on the plan. There may be some storm drain detention in the area and the stormwater treatment box is really close to this too.

A County Flood Control permit for Lee Creek Drain, is needed. This should already be obtained or be in the process for this to determine where the fence can be, the fence cannot be withing the Flood Control easement which is generally 20' from top of bank or if there is an actual easement the width of the easement whichever is larger.

It appears that this site would be located next to the Lee Drain. The drain and its easement is not shown on the plan and will need to be shown to be able to make a good determination.
Here is a clip of the aerial that show the Drain.



Building (2019) – Jason Rodgers, jason.rodgers@slcgov.com
2015 IBC- section 3108-3108.1 Towers shall be designed and constructed in accordance with the provisions of TIA-222.//3108.2 Towers shall be located such that guy wires and other accessories shall not cross or encroach upon any street or other public space, or over above ground electric utility line or encroach upon any privately owned property, space or aboveground electric utility lines. Towers shall be equipped with climbing and working facilities in compliance with TIA-222 Access to tower sites shall be limited as required by applicable OSHA, FCC and EPA regulations. This is notes for construction.