

## Washoe County Development Application

Your entire application is a public record. If you have a concern about releasing personal information, please contact Planning and Building staff at 775.328.6100.

<b>Project Information</b>		Staff Assigned Case No.: _____	
Project Name:			
Project Description:			
Project Address:			
Project Area (acres or square feet):			
Project Location (with point of reference to major cross streets <b>AND</b> area locator):			
Assessor's Parcel No.(s):	Parcel Acreage:	Assessor's Parcel No.(s):	Parcel Acreage:
Indicate any previous Washoe County approvals associated with this application: Case No.(s).			
<b>Applicant Information</b> (attach additional sheets if necessary)			
<b>Property Owner:</b>		<b>Professional Consultant:</b>	
Name:		Name:	
Address:		Address:	
Zip:		Zip:	
Phone:                      Fax:		Phone:                      Fax:	
Email:		Email:	
Cell:                              Other:		Cell:                              Other:	
Contact Person:		Contact Person:	
<b>Applicant/Developer:</b>		<b>Other Persons to be Contacted:</b>	
Name:		Name:	
Address:		Address:	
Zip:		Zip:	
Phone:                      Fax:		Phone:                      Fax:	
Email:		Email:	
Cell:                              Other:		Cell:                              Other:	
Contact Person:		Contact Person:	
<b>For Office Use Only</b>			
Date Received:                      Initial:		Planning Area:	
County Commission District:		Master Plan Designation(s):	
CAB(s):		Regulatory Zoning(s):	

# Special Use Permit Application Supplemental Information

(All required information may be separately attached)

1. What is the project being requested?

2. Provide a site plan with all existing and proposed structures (e.g. new structures, roadway improvements, utilities, sanitation, water supply, drainage, parking, signs, etc.)

3. What is the intended phasing schedule for the construction and completion of the project?

4. What physical characteristics of your location and/or premises are especially suited to deal with the impacts and the intensity of your proposed use?

5. What are the anticipated beneficial aspects or affects your project will have on adjacent properties and the community?

6. What are the anticipated negative impacts or affect your project will have on adjacent properties? How will you mitigate these impacts?

7. Provide specific information on landscaping, parking, type of signs and lighting, and all other code requirements pertinent to the type of use being purposed. Show and indicate these requirements on submitted drawings with the application.

Property Owner Affidavit

Applicant Name: Truckee Meadows Water Authority

The receipt of this application at the time of submittal does not guarantee the application complies with all requirements of the Washoe County Development Code, the Washoe County Master Plan or the applicable area plan, the applicable regulatory zoning, or that the application is deemed complete and will be processed.

STATE OF NEVADA )  
COUNTY OF WASHOE )

I, Mark Foree as General Manager of Water Authority,  
(please print name) Truckee Meadows

being duly sworn, depose and say that I am the owner\* of the property or properties involved in this application as listed below and that the foregoing statements and answers herein contained and the information herewith submitted are in all respects complete, true, and correct to the best of my knowledge and belief. I understand that no assurance or guarantee can be given by members of Planning and Building.

(A separate Affidavit must be provided by each property owner named in the title report.)

Assessor Parcel Number(s): 080-730-09

Printed Name Mark Foree

Signed Mark Foree

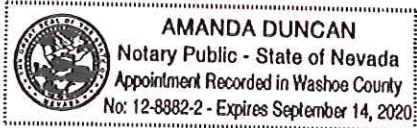
Address P.O. Box 30013  
Reno, NV 89520

Subscribed and sworn to before me this 1st day of July, 2020.

[Signature]  
Notary Public in and for said county and state

My commission expires: September 14, 2020

(Notary Stamp)



\*Owner refers to the following: (Please mark appropriate box.)

- Owner
- Corporate Officer/Partner (Provide copy of record document indicating authority to sign.)
- Power of Attorney (Provide copy of Power of Attorney.)
- Owner Agent (Provide notarized letter from property owner giving legal authority to agent.)
- Property Agent (Provide copy of record document indicating authority to sign.)
- Letter from Government Agency with Stewardship

8. Are there any restrictive covenants, recorded conditions, or deed restrictions (CC&Rs) that apply to the area subject to the special use permit request? (If so, please attach a copy.)

<input type="checkbox"/> Yes	<input type="checkbox"/> No
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9. Utilities:

a. Sewer Service	
b. Electrical Service	
c. Telephone Service	
d. LPG or Natural Gas Service	
e. Solid Waste Disposal Service	
f. Cable Television Service	
g. Water Service	

For most uses, Washoe County Code, Chapter 110, Article 422, Water and Sewer Resource Requirements, requires the dedication of water rights to Washoe County. Please indicate the type and quantity of water rights you have available should dedication be required.

h. Permit #		acre-feet per year	
i. Certificate #		acre-feet per year	
j. Surface Claim #		acre-feet per year	
k. Other #		acre-feet per year	

Title of those rights (as filed with the State Engineer in the Division of Water Resources of the Department of Conservation and Natural Resources).

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10. Community Services (provided and nearest facility):

a. Fire Station	
b. Health Care Facility	
c. Elementary School	
d. Middle School	
e. High School	
f. Parks	
g. Library	
h. Citifare Bus Stop	

**Special Use Permit Application  
for Grading  
Supplemental Information**  
(All required information may be separately attached)

1. What is the purpose of the grading?

2. How many cubic yards of material are you proposing to excavate on site?

3. How many square feet of surface of the property are you disturbing?

4. How many cubic yards of material are you exporting or importing? If none, how are you managing to balance the work on-site?

5. Is it possible to develop your property without surpassing the grading thresholds requiring a Special Use Permit? (Explain fully your answer.)

6. Has any portion of the grading shown on the plan been done previously? (If yes, explain the circumstances, the year the work was done, and who completed the work.)

7. Have you shown all areas on your site plan that are proposed to be disturbed by grading? (If no, explain your answer.)

8. Can the disturbed area be seen from off-site? If yes, from which directions and which properties or roadways?

9. Could neighboring properties also be served by the proposed access/grading requested (i.e. if you are creating a driveway, would it be used for access to additional neighboring properties)?

10. What is the slope (horizontal/vertical) of the cut and fill areas proposed to be? What methods will be used to prevent erosion until the revegetation is established?

11. Are you planning any berms?

Yes	No	If yes, how tall is the berm at its highest?
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12. If your property slopes and you are leveling a pad for a building, are retaining walls going to be required? If so, how high will the walls be and what is their construction (i.e. rockery, concrete, timber, manufactured block)?

13. What are you proposing for visual mitigation of the work?

14. Will the grading proposed require removal of any trees? If so, what species, how many and of what size?

15. What type of revegetation seed mix are you planning to use and how many pounds per acre do you intend to broadcast? Will you use mulch and, if so, what type?

16. How are you providing temporary irrigation to the disturbed area?

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17. Have you reviewed the revegetation plan with the Washoe Storey Conservation District? If yes, have you incorporated their suggestions?

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18. Are there any restrictive covenants, recorded conditions, or deed restrictions (CC&Rs) that may prohibit the requested grading?

Yes	No	If yes, please attach a copy.
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# Special Use Permit Application for Stables Supplemental Information

(All required information may be separately attached)

1. What is the maximum number of horses to be boarded, both within stables and pastured?

2. What is the maximum number of horses owned/maintained by the owner/operator of the project, both within stables and pastured?

3. List any ancillary or additional uses proposed (e.g., tack and saddle sales, feed sales, veterinary services, etc.). Only those items that are requested may be permitted.

4. If additional activities are proposed, including training, events, competition, trail rides, fox hunts, breaking, roping, etc., only those items that are requested may be permitted. Clearly describe the number of each of the above activities which may occur, how many times per year and the number of expected participants for each activity.

5. What currently developed portions of the property or existing structures are going to be used with this permit?

6. To what uses (e.g., restrooms, offices, managers living quarters, stable area, feed storage, etc.) will the barn be put and will the entire structure be allocated to those uses? (Provide floor plans with dimensions).

7. Where are the living quarters for the operators of the stables and where will employees reside?



8. How many improved parking spaces, both on-site and off-site, are available or will be provided? (Please indicate on site plan.) Have you provided for horse trailer turnarounds?

9. What are the planned hours of operation?

10. What improvements (e.g. new structures including the square footage, roadway/driveway improvements, utilities, sanitation, water supply, drainage, parking, signs, etc.) will have to be constructed or installed and what is the projected time frame for the completion of each?

11. What is the intended phasing schedule for the construction and completion of the project?

12. What physical characteristics of your location and/or premises are especially suited to deal with the impacts and the intensity of your proposed use?

13. What are the anticipated beneficial aspects or affects your project will have on adjacent properties and the community?

14. What are the adverse impacts upon the surrounding community (including traffic, noise, odors, dust, groundwater contamination, flies, rats, mice, etc.) and what will you do to minimize the anticipated negative impacts or effects your project will have on adjacent properties?

15. Please describe operational parameters and/or voluntary conditions of approval to be imposed on the administrative permit to address community impacts.

16. What types of landscaping (e.g. shrubs, trees, fencing, painting scheme, etc.) are proposed? (Please indicate location on site plan.)

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17. What type of signs and lighting will be provided? On a separate sheet, show a depiction (height, width, construction materials, colors, illumination methods, lighting intensity, base landscaping, etc.) of each sign and the typical lighting standards. (Please indicate location of signs and lights on site plan.)

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18. Are there any restrictive covenants, recorded conditions, or deed restrictions (CC&Rs) that apply to the area subject to the administrative permit request? (If so, please attach a copy.)

<input type="checkbox"/> Yes	<input type="checkbox"/> No
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19. Community Sewer

<input type="checkbox"/> Yes	<input type="checkbox"/> No
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20. Community Water

<input type="checkbox"/> Yes	<input type="checkbox"/> No
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# CVL06282 Zoning Propagation Map

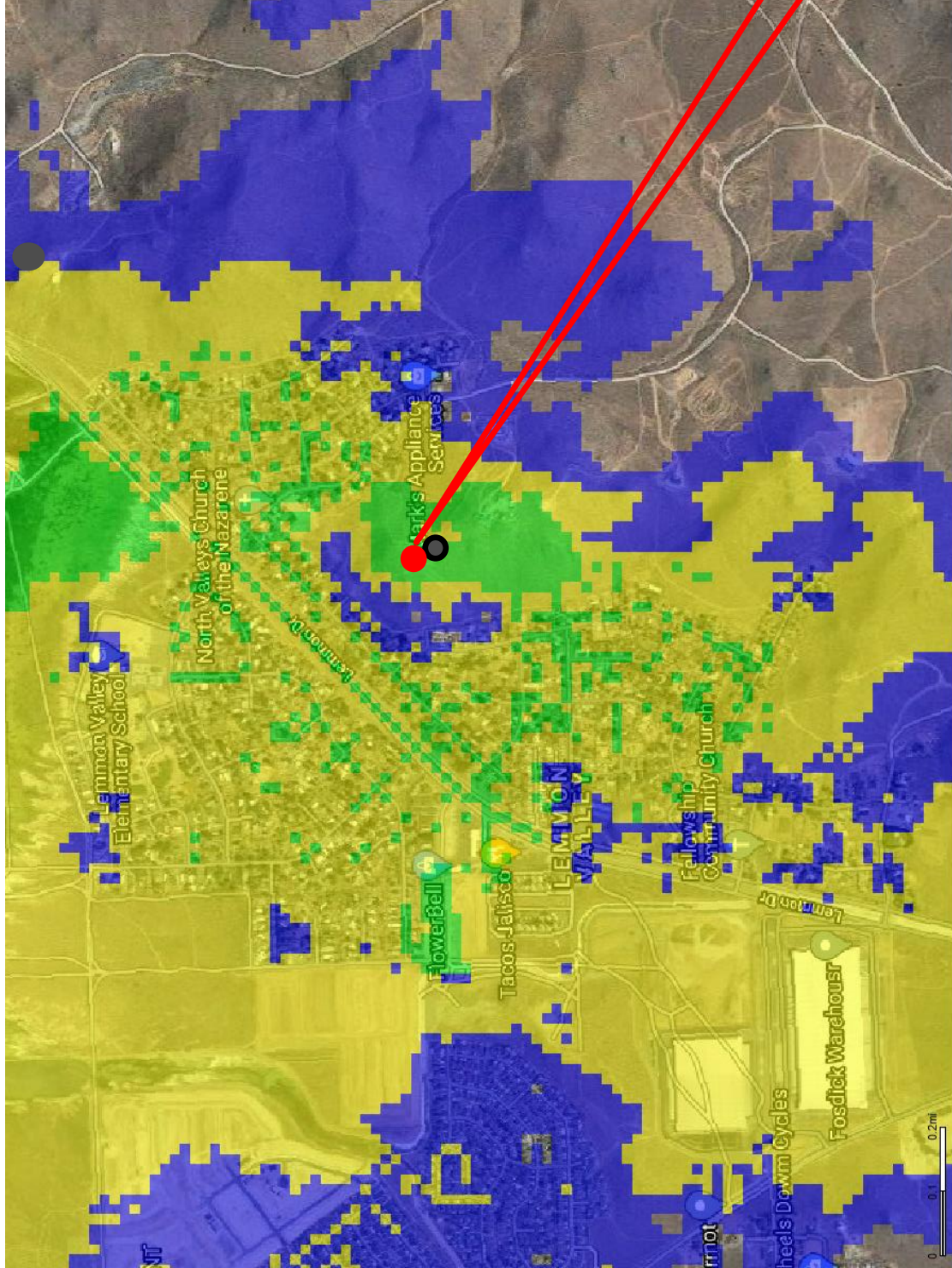
Sept 03, 2020



# Existing LTE 700 Coverage before antenna relocation

## Legend

- Reliable Service Indoors/Outdoors
- Reliable Coverage in Transit
- Indoor Coverage Less Reliable
- Reliable Coverage Outdoors Only
- Indoor Coverage Less Reliable
- Reliable
- Existing site
- Proposed site

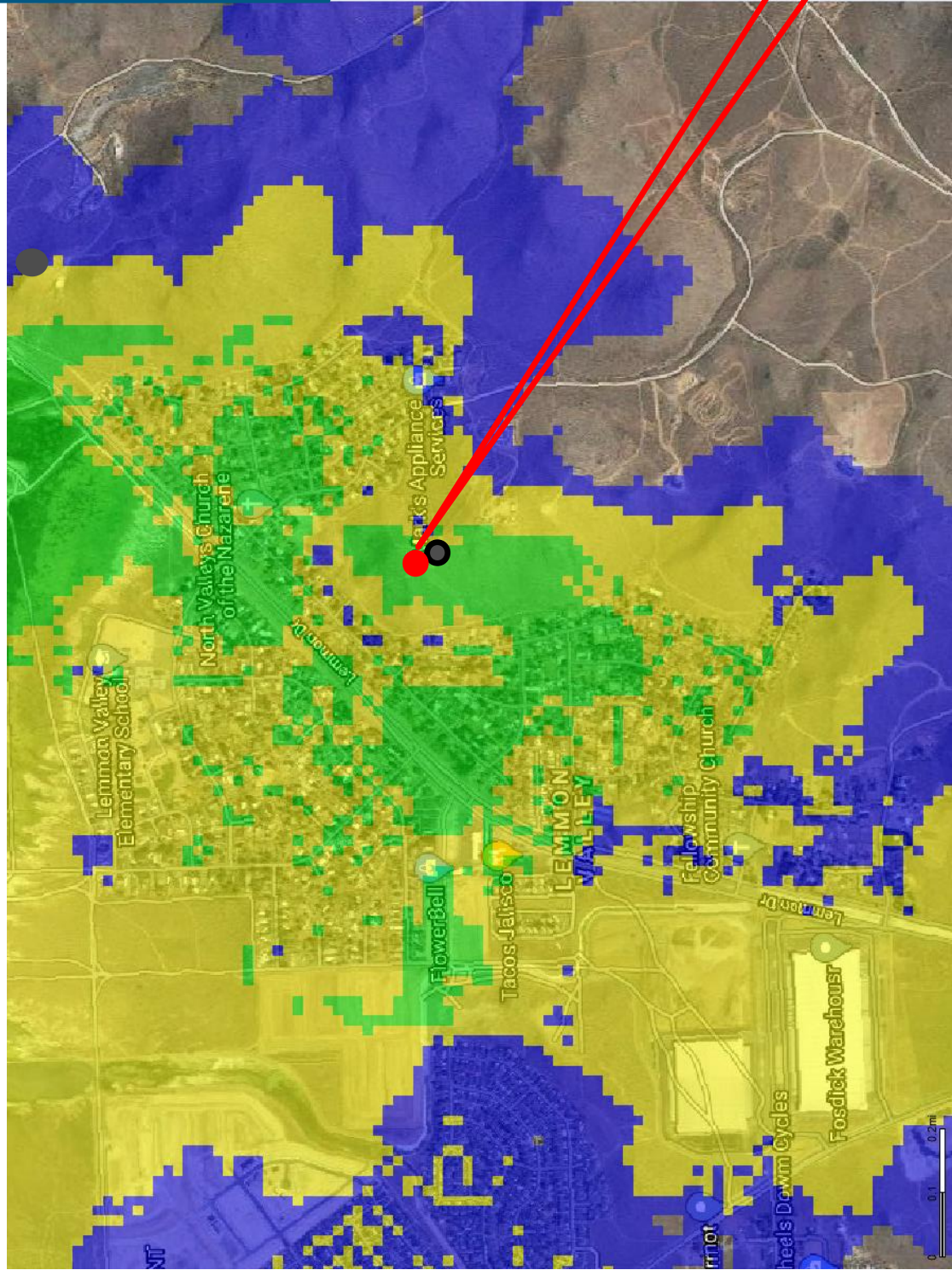


CVL06282

# Proposed LTE 700 Coverage after antenna relocation (RC = 47')

## Legend

- Reliable Service Indoors/Outdoors
- Reliable Coverage in Transit
- Indoor Coverage Less Reliable
- Reliable Coverage Outdoors Only
- Indoor Coverage Less Reliable
- Reliable
- Existing site
- Proposed site





**WATERFORD**

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## **Radio Frequency Emissions Compliance Report For AT&T Mobility**

<b>Site Name:</b>	<b>Lemon Valley</b>	<b>Site Structure Type:</b>	<b>Monopole</b>
<b>Address:</b>	<b>530 Patrician Drive</b>	<b>Latitude:</b>	<b>39.6390139</b>
	<b>Reno, NV 89506</b>	<b>Longitude:</b>	<b>-119.8350811</b>
<b>Report Date:</b>	<b>September 2, 2020</b>	<b>Project:</b>	<b>Modification</b>

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### **Compliance Statement**

Based on information provided by AT&T Mobility and predictive modeling, the Lemon Valley installation proposed by AT&T Mobility will be compliant with Radiofrequency Radiation Exposure Limits of 47 C.F.R. §§ 1.1307(b)(3) and 1.1310. RF alerting signage at the base of the Monopole and restricting access to authorized climbers that have completed RF safety training is required for Occupational environment compliance. The proposed operation will not expose members of the General Public to hazardous levels of RF energy at ground level or in adjacent buildings.

### **Certification**

I, David Hamilton Kiser, am the reviewer and approver of this report and am fully aware of and familiar with the Rules and Regulations of both the Federal Communications Commissions (FCC) and the Occupational Safety and Health Administration (OSHA) with regard to Human Exposure to Radio Frequency Radiation, specifically in accordance with FCC's OET Bulletin 65. I have reviewed this Radio Frequency Exposure Assessment report and believe it to be both true and accurate to the best of my knowledge.

### **General Summary**

The compliance framework is derived from the Federal Communications Commission (FCC) Rules and Regulations for preventing human exposure in excess of the applicable Maximum Permissible Exposure ("MPE") limits. At any location at this site, the power density resulting from each transmitter may be expressed as a percentage of the frequency-specific limits and added to determine if 100% of the exposure limit has been exceeded. The FCC Rules define two tiers of permissible exposure differentiated by the situation in which the exposure takes place and/or the status of the individuals who are subject to exposure. General Population / Uncontrolled exposure limits apply to those situations in which persons may not be aware of the presence of electromagnetic energy, where exposure is not employment-related, or where persons cannot exercise control over their exposure. Occupational / Controlled exposure limits apply to situations in which persons are exposed as a consequence of their employment, have been made fully aware of the potential for exposure, and can exercise control over their exposure. Based on the criteria for these classifications, the FCC General Population limit is considered to be a level that is safe for continuous exposure time. The FCC General Population limit is 5 times more restrictive than the Occupational limits.

Table 1: FCC Limits

Frequency (MHz)	<i>Limits for General Population/ Uncontrolled Exposure</i>		<i>Limits for Occupational/ Controlled Exposure</i>	
	Power Density (mW/cm <sup>2</sup> )	Averaging Time (minutes)	Power Density (mW/cm <sup>2</sup> )	Averaging Time (minutes)
30-300	0.2	30	1	6
300-1500	f/1500	30	f/300	6
1500-100,000	1.0	30	5.0	6

f=Frequency (MHz)

In situations where the predicted MPE exceeds the General Population threshold in an accessible area as a result of emissions from multiple transmitters, FCC licensees that contribute greater than 5% of the aggregate MPE share responsibility for mitigation.

Based on the computational guidelines set forth in FCC OET Bulletin 65, Waterford Consultants, LLC has developed software to predict the overall Maximum Permissible Exposure possible at any location given the spatial orientation and operating parameters of multiple RF sources. The power density in the Far Field of an RF source is specified by OET-65 Equation 5 as follows:

$$S = \frac{EIRP}{4 \cdot \pi \cdot R^2} \text{ (mW/cm}^2\text{)}$$

where EIRP is the Effective Radiated Power relative to an isotropic antenna and R is the distance between the antenna and point of study. Additionally, consideration is given to the manufacturers' horizontal and vertical antenna patterns as well as radiation reflection. At any location, the predicted power density in the Far Field is the spatial average of points within a 0 to 6-foot vertical profile that a person would occupy. Near field power density is based on OET-65 Equation 20 stated as

$$S = \left( \frac{180}{\theta_{BW}} \right) \cdot \frac{100 \cdot P_{in}}{\pi \cdot R \cdot h} \text{ (mW/cm}^2\text{)}$$

where  $P_{in}$  is the power input to the antenna,  $\theta_{BW}$  is the horizontal pattern beamwidth and h is the aperture length.

These theoretical results represent worst-case predictions as all RF emitters are assumed to be operating at 100% duty cycle.

For any area in excess of 100% General Population MPE, access controls with appropriate RF alerting signage must be put in place and maintained to restrict access to authorized personnel. Signage must be posted to be visible upon approach from any direction to provide notification of potential conditions within these areas. Subject to other site security requirements, occupational personnel should be trained in RF safety and equipped with personal protective equipment (e.g. RF personal monitor) designed for safe work in the vicinity of RF emitters. Controls such as physical barriers to entry imposed by locked doors, hatches and ladders or other access control mechanisms may be supplemented by alarms that alert the individual and notify site management of a breach in access control. Waterford Consultants, LLC recommends that any work activity in these designated areas or in front of any transmitting antennas be coordinated with all wireless tenants.

## Analysis

AT&T Mobility proposes the following installation at this location:

- REMOVE (6) PANEL ANTENNAS FROM WATER TANK
- RELOCATE (3) PANEL ANTENNAS TO NEW MONOPOLE
- INSTALL (6) PANEL ANTENNAS ON NEW MONOPOLE
- REMOVE (3) RRUS 32 B30 FROM WATER TANK, TYP. (1) PER SECTOR
- REMOVE (3) RRUS 32 B66 FROM WATER TANK, TYP. (1) PER SECTOR
- REMOVE (3) RRUS 11 B12 FROM WATER TANK, TYP. (1) PER SECTOR
- REMOVE (3) RRUS 12 B2 FROM WATER TANK, TYP. (1) PER SECTOR
- INSTALL (3) RRUS E2 B29 ON NEW MONOPOLE, TYP. (1) PER SECTOR
- INSTALL (3) RRUS 4415 B25 ON NEW MONOPOLE, TYP. (1) PER SECTOR
- INSTALL (3) RRUS 4415 B30 ON NEW MONOPOLE, TYP. (1) PER SECTOR
- INSTALL (3) RRUS 4449 B5/B12 ON NEW MONOPOLE, TYP. (1) PER SECTOR
- INSTALL (3) RRUS 8843 B2/B66A ON NEW MONOPOLE, TYP. (1) PER SECTOR
- RELOCATE (3) RRUS 4478 B14 ON NEW MONOPOLE, TYP. (1) PER SECTOR

The antennas will be mounted on a 50-foot Monopole with centerlines 47 feet above ground level. Proposed antenna operating parameters are listed in Appendix A. Other appurtenances such as GPS antennas, RRUs and hybrid cable below the antennas are not sources of RF emissions. Panel and omnidirectional antennas have been installed at this site by other wireless operators. Operating parameters for these antennas considered in this analysis are also listed in Appendix A.



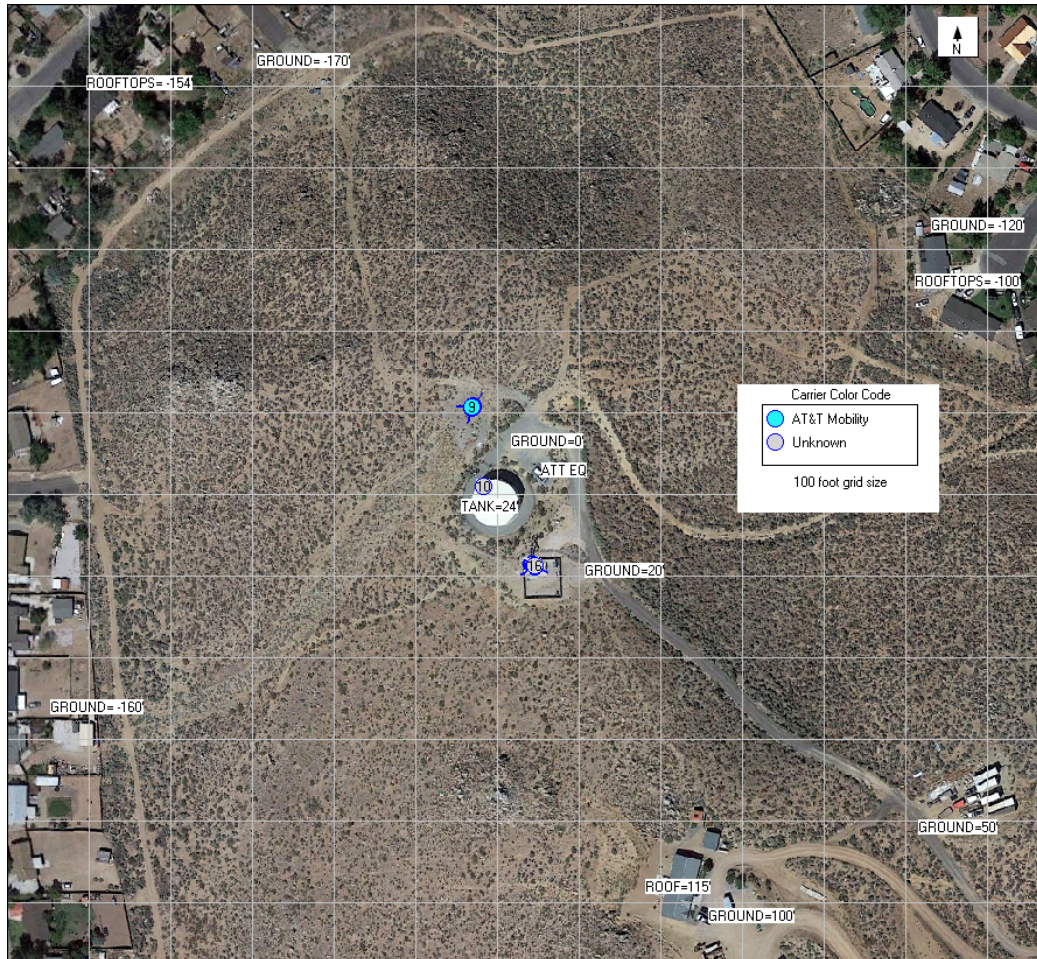


Figure 1: Antenna Locations

Power density decreases significantly with distance from any antenna. The panel-type antennas to be employed at this site are highly directional by design and the orientation in azimuth and mounting elevation, as documented, serves to reduce the potential to exceed MPE limits at any location other than directly in front of the antennas. For accessible areas at ground level, the maximum predicted power density level resulting from all AT&T Mobility operations is 5.1824% of the FCC General Population limits. Based on the operating parameters in Appendix A, the cumulative power density level at this location from all antennas is 5.3892% of the FCC General Population limits. Incident at adjacent buildings depicted in Figure 1, the maximum predicted power density level resulting from all AT&T Mobility operations is 12.0901% of the FCC General Population limits. Based on the operating parameters in Appendix A, the cumulative power density level at this location from all antennas is 16.339% of the FCC General Population limits. The proposed operation will not expose members of the General Public to hazardous levels of RF energy at ground level or in adjacent buildings.

Waterford Consultants, LLC recommends posting RF alerting signage with contact information (Caution 2B) at the base of the Monopole to inform authorized climbers of potential conditions near the antennas. These recommendations are depicted in Figure 2.

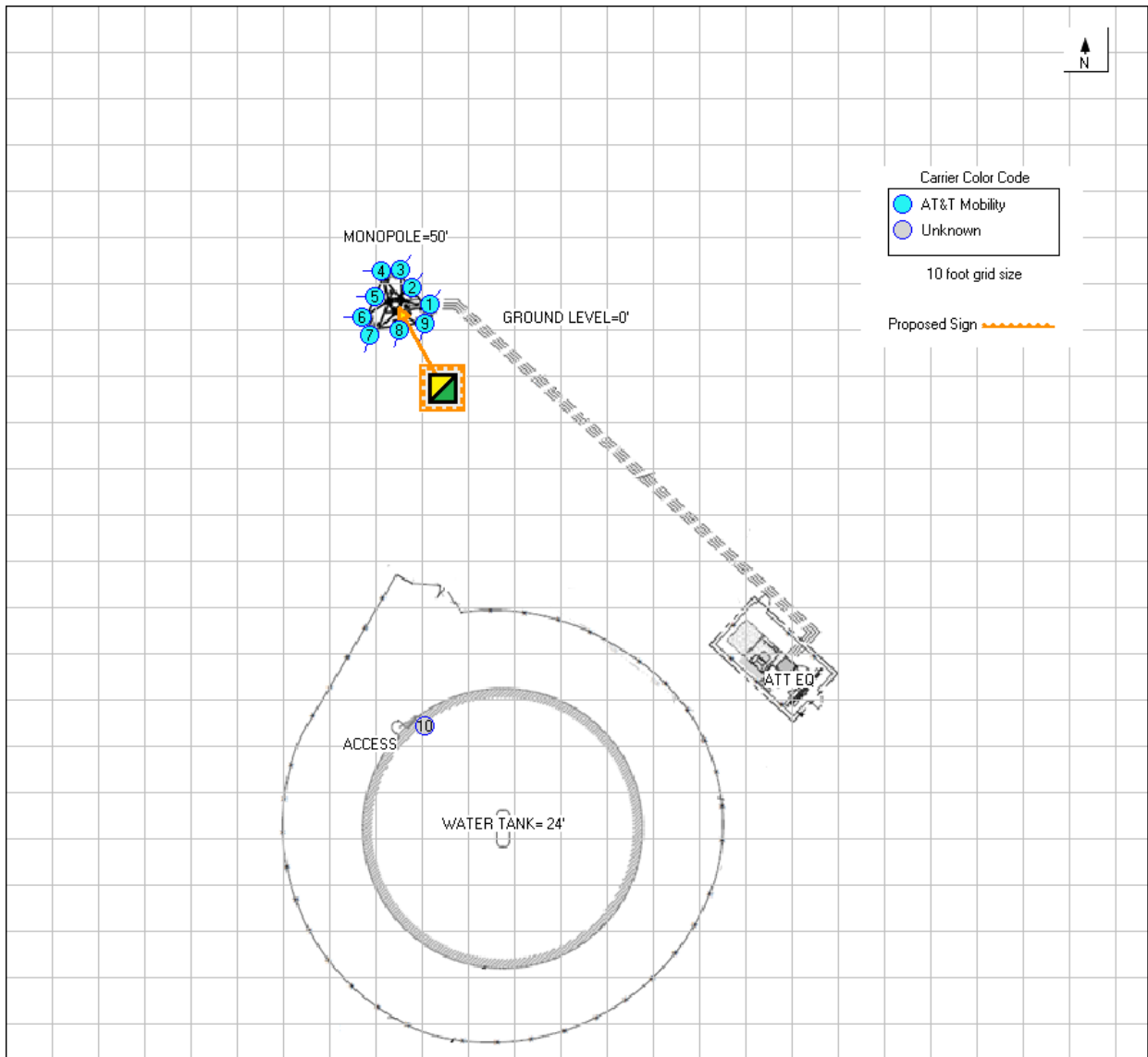


Figure 2: Mitigation Recommendations  
Caution 2B posted at base of monopole



**Appendix A: Operating Parameters Considered in this Analysis**

Antenna #:	Carrier:	Manufacturer	Pattern:	Band:	Mech Az (deg):	Mech DT (deg):	H BW (deg):	Length (ft):	TPO (W):	Channels:	Loss (dB):	Gain (dBd):	ERP (W):	EIRP (W):	Rad Center (ft):
1	AT&T	KATHREIN	80010965 02DT	700	35	0	62	6.6	40	4	0	12.15	2625	4306	47
1	AT&T	KATHREIN	80010965 02DT	850	35	0	61.1	6.6	40	4	0	13.45	3541	5809	47
1	AT&T	KATHREIN	80010965 03DT	1900	35	0	64.1	6.6	40	4	0	15.65	5877	9641	47
2	AT&T	KATHREIN	80010965 02DT	700	35	0	62	6.6	40	4	0	12.15	2625	4306	47
2	AT&T	KATHREIN	80010965 03DT	2100	35	0	58.4	6.6	40	4	0	16.45	7065	11591	47
3	AT&T	COMMSCOPE	NNH4-65B-R6H4 02DT	700	35	0	71	6	40	2	0	11.45	1117	1833	47
3	AT&T	COMMSCOPE	NNH4-65B-R6H4 02DT	1900	35	0	75	6	40	4	0	13.95	3973	6518	47
3	AT&T	COMMSCOPE	NNH4-65B-R6H4 02DT	2300	35	0	58	6	25	4	0	15.71	3724	6109	47
4	AT&T	KATHREIN	80010965 02DT	700	270	0	62	6.6	40	4	0	12.15	2625	4306	47
4	AT&T	KATHREIN	80010965 02DT	850	270	0	61.1	6.6	40	4	0	13.45	3541	5809	47
4	AT&T	KATHREIN	80010965 03DT	1900	270	0	64.1	6.6	40	4	0	15.65	5877	9641	47
5	AT&T	KATHREIN	80010965 02DT	700	270	0	62	6.6	40	4	0	12.15	2625	4306	47
5	AT&T	KATHREIN	80010965 03DT	2100	270	0	58.4	6.6	40	4	0	16.45	7065	11591	47
6	AT&T	COMMSCOPE	NNH4-65B-R6H4 02DT	700	270	0	71	6	40	2	0	11.45	1117	1833	47
6	AT&T	COMMSCOPE	NNH4-65B-R6H4 02DT	1900	270	0	75	6	40	4	0	13.95	3973	6518	47
6	AT&T	COMMSCOPE	NNH4-65B-R6H4 02DT	2300	270	0	58	6	25	4	0	15.71	3724	6109	47
7	AT&T	KATHREIN	80010965 02DT	700	195	0	62	6.6	40	4	0	12.15	2625	4306	47
7	AT&T	KATHREIN	80010965 02DT	850	195	0	61.1	6.6	40	4	0	13.45	3541	5809	47
7	AT&T	KATHREIN	80010965 03DT	1900	195	0	64.1	6.6	40	4	0	15.65	5877	9641	47
8	AT&T	KATHREIN	80010965 02DT	700	195	0	62	6.6	40	4	0	12.15	2625	4306	47
8	AT&T	KATHREIN	80010965 03DT	2100	195	0	58.4	6.6	40	4	0	16.45	7065	11591	47
9	AT&T	COMMSCOPE	NNH4-65B-R6H4 02DT	700	195	0	71	6	40	2	0	11.45	1117	1833	47
9	AT&T	COMMSCOPE	NNH4-65B-R6H4 02DT	1900	195	0	75	6	40	4	0	13.95	3973	6518	47
9	AT&T	COMMSCOPE	NNH4-65B-R6H4 02DT	2300	195	0	58	6	25	4	0	15.71	3724	6109	47
10	Unknown	ANDREW	DB806-A	700	0	0	360	5.2	25.1	1	0	6	100	164	27
11	Unknown	RFS	APXV9ERR18-C-02DT	850	0	0	80	6	25	4	0	11.9	1549	2541	45

Lemon Valley Modification 09.02.2020

Antenna #:	Carrier:	Manufacturer	Pattern:	Band:	Mech Az (deg):	Mech DT (deg):	H BW (deg):	Length (ft):	TPO (W):	Channels:	Loss (dB):	Gain (dBd):	ERP (W):	EIRP (W):	Rad Center (ft):
11	Unknown	RFS	APXV9ERR18-C-00DT	1900	0	0	80	6	45	4	0	14.6	5191	8517	45
12	Unknown	RFS	APXVTM14 ALU-I20 00DT	2500	0	0	65	4.7	20	8	0	15.9	6225	10212	45
13	Unknown	RFS	APXV9ERR18-C-02DT	850	120	0	80	6	25	4	0	11.9	1549	2541	45
13	Unknown	RFS	APXV9ERR18-C-00DT	1900	120	0	80	6	45	4	0	14.6	5191	8517	45
14	Unknown	RFS	APXVTM14 ALU-I20 00DT	2500	120	0	65	4.7	20	8	0	15.9	6225	10212	45
15	Unknown	RFS	APXV9ERR18-C-02DT	850	240	0	80	6	25	4	0	11.9	1549	2541	45
15	Unknown	RFS	APXV9ERR18-C-00DT	1900	240	0	80	6	45	4	0	14.6	5191	8517	45
16	Unknown	RFS	APXVTM14 ALU-I20 00DT	2500	240	0	65	4.7	20	8	0	15.9	6225	10212	45

*Colocated antenna parameters based on industry standards*

CODE COMPLIANCE

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

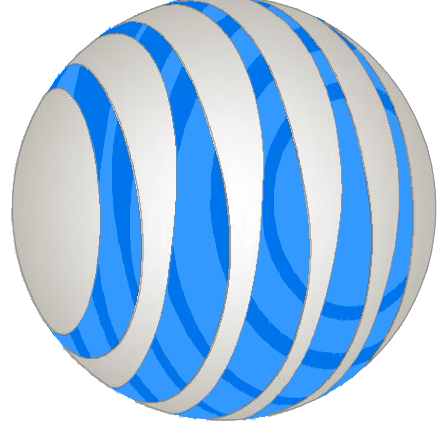
- 1. NEVADA BUILDING STANDARDS CODE: 2018 EDITION OF TITLE 24
PART 1 - NEVADA ADMINISTRATIVE CODE
PART 2 - NEVADA BUILDING CODE, BASED ON THE 2018 INTERNATIONAL BUILDING CODE
PART 2.5 - NEVADA RESIDENTIAL CODE, BASED ON THE 2018 INTERNATIONAL RESIDENTIAL CODE
PART 3 - NEVADA ELECTRICAL CODE, BASED ON THE 2017 NATIONAL ELECTRICAL CODE
PART 4 - NEVADA MECHANICAL CODE, BASED ON THE 2018 UNIFORM MECHANICAL CODE
PART 5 - NEVADA PLUMBING CODE, BASED ON THE 2018 UNIFORM PLUMBING CODE
PART 6 - NEVADA ENERGY CODE
PART 7 - VACANT
PART 8 - NEVADA HISTORICAL BUILDING CODE
PART 9 - NEVADA FIRE CODE, BASED ON THE 2018 INTERNATIONAL FIRE CODE
PART 10 - NEVADA EXISTING BUILDING CODE, BASED ON THE 2018 INTERNATIONAL EXISTING BUILDING CODE
PART 11 - 2018 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)
PART 12 - NEVADA REFERENCED STANDARDS CODE
ANSI/IA-222 (REV H)
2. 2018 NFPA 101, LIFE SAFETY CODE
3. 2018 NFPA 72, NATIONAL FIRE ALARM AND SIGNALING CODE
4. 2018 NFPA 13, STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS

PROJECT TEAM

APPLICANT / LESSEE: ALYSSA FERRIS
RELOCATIONS PROJECT MANAGER
AT&T TECHNOLOGY OPERATIONS
RAN CONSTRUCTION - WEST
PROFESSIONAL TECH VENDOR MGMT
5001 EXECUTIVE PARKWAY, 4W550
SAN RAMON, CA 94583
EMAIL: cb724b@att.com
MOBILE: (530) 966-2612
PROJECT MANAGER & ZONING: J5 INFRASTRUCTURE PARTNERS
CONTACT: MISAKO HILL
EMAIL: mhill@j5ip.com
PH: (415) 533-2540
A&E MANAGER: J5 INFRASTRUCTURE PARTNERS
2030 MAIN STREET, SUITE 200
IRVINE, CA 92614
EMAIL: arico@vinculums.com
PH: (925) 532-2245
CONSTRUCTION MANAGER: DAN RICO
VINULUMS SERVICES, INC.
2030 MAIN STREET, SUITE 200
IRVINE, CA 92614
CONSTRUCTION MANAGER
EMAIL: arico@vinculums.com
PH: (925) 532-2245
RF ENGINEER: MICHAEL GUIGLOTTO
SITE ACQUISITION
J5 INFRASTRUCTURE PARTNERS
EMAIL: mguiglotto@j5ip.com
PH: (415) 225-6667

SITE INFORMATION

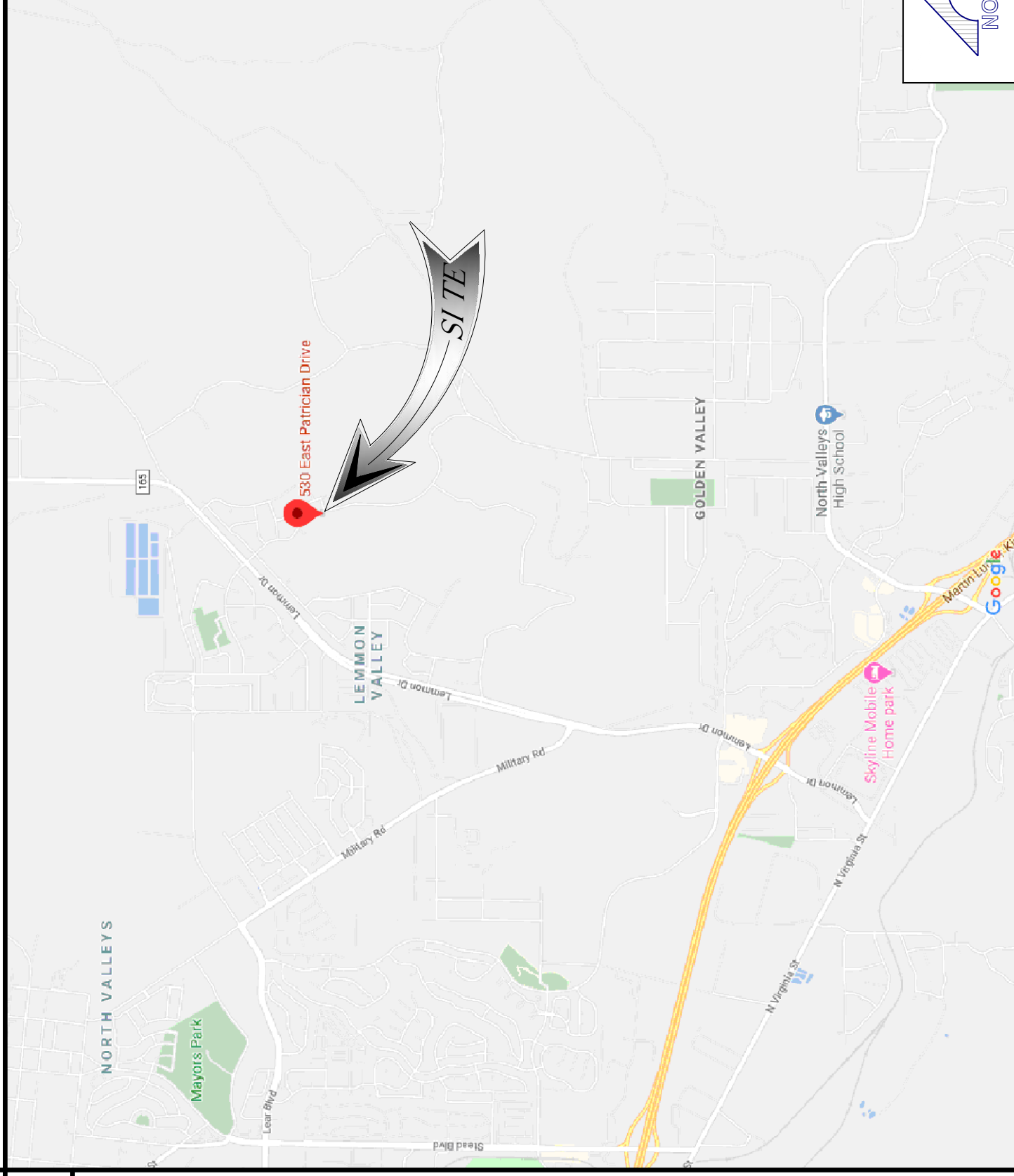
PROPERTY OWNER: TRUCKEE MEADOWS WATER AUTHORITY
ATTN: LANDS DEPT.
P.O. BOX 30013
RENO, NV 89520-3013
JURISDICTION: WASHOE COUNTY
A.P.N.: 080-730-09
CURRENT ZONING: PSP
EXISTING USE: MULTITUSE
PROPOSED USE: MULTITUSE, COMMUNICATIONS FACILITY
LATITUDE (NAD 83): 39° 38' 20.45" N
LONGITUDE (NAD 83): 119° 50' 06.29" W
ACCESSIBILITY REQUIREMENTS: FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. ACCESSIBILITY IS NOT REQUIRED
POWER AGENCY: NV ENERGY
NFPA VERSION: 1.0
DATE: 04/02/20
DATE UPDATED: 08/06/20
TELEPHONE AGENCY: SBC NEVADA



USID: 24126
FA #: 10088248
CELL SITE RF MODIFICATIONS
PTN#: 3701A0TRHL
PACE#: MRSFR070737
4TX4RX SOFTWARE
RETROFIT
PTN#: 3701A0KNS7
PACE#: MRSFR053533
4TX4RX SOFTWARE RETROFIT
PTN#: 3701A0KNS6
PACE#: MRSFR053536
BWE TOWER TOP RRRH ADD
PTN#: 3701A0KNPQ
PACE#: MRSFR053489
LTE 6C
PTN#: 3701A0KN8Q
PACE#: MRSFR053486

SITE NUMBER: CVL06282
SITE NAME: LEMON VALLEY
SITE TYPE: MONOPOLE/OUTDOOR EQUIPMENT
ADDRESS: 530 E. PATRICIAN DRIVE
RENO, NV 89506

VICINITY MAP



LOCAL MAP



GENERAL CONTRACTOR NOTES

DO NOT SCALE DRAWINGS
THESE PLANS ARE FORMATTED TO BE FULL SIZE AT 24" X 36". CONTRACTORS 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 MATERIAL ORDERS OR BE RESPONSIBLE FOR THE 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, POTABLE WATER, OR TRASH DISPOSAL IS REQUIRED AND NO COMMERCIAL SIGNAGE IS PROPOSED.
STRUCTURAL ANALYSIS IS NOT WITHIN THE SCOPE OF WORK CONTAINED IN THIS DRAWINGS SET. FOR ANALYSIS OF EXISTING AND/OR PROPOSED COMPONENTS, REFER TO STRUCTURAL ANALYSIS PROVIDED UNDER SEPARATE COVER.
ANTENNA MOUNT ANALYSIS IS NOT WITHIN THE SCOPE OF WORK CONTAINED IN THIS DRAWING SET. FOR ANALYSIS OF MOUNT TO SUPPORT EXISTING AND/OR PROPOSED COMPONENTS, REFER TO ANTIENNA MOUNT STRUCTURAL ANALYSIS PROVIDED UNDER SEPARATE COVER.

GENERAL NOTES

STATEMENTS

APPROVALS

THE FOLLOWING PARTIES HEREBY APPROVE AND ACCEPT THESE DOCUMENTS & AUTHORIZE THE SUBCONTRACTOR TO PROCEED WITH CONSTRUCTION DESCRIBED HEREIN. ALL DOCUMENTS ARE SUBJECT TO REVIEW BY LOCAL BUILDING DEPARTMENT & MAY IMPOSE CHANGES AND MODIFICATIONS.

Table with columns: DISCIPLINE, SIGNATURE, DATE. Rows for RF ENGINEER, AT&T PM, CIVIL, A&E, SAQ PM, PROPERTY OWNER.

PROJECT DESCRIPTION

MODIFICATION TO AN UNMANNED TELECOMMUNICATIONS FACILITY, CONSISTING OF THE FOLLOWING:
REMOVE (6) PANEL ANTENNAS FROM WATER TANK
RELOCATE (3) PANEL ANTENNAS TO NEW MONOPOLE
INSTALL (6) PANEL ANTENNAS ON NEW MONOPOLE
REMOVE (3) RRUS 32 B30 FROM WATER TANK, TYP. (1) PER SECTOR
REMOVE (3) RRUS 32 B66 FROM WATER TANK, TYP. (1) PER SECTOR
REMOVE (3) RRUS 11 B12 FROM WATER TANK, TYP. (1) PER SECTOR
REMOVE (3) RRUS 12 B2 FROM WATER TANK, TYP. (1) PER SECTOR
INSTALL (3) RRUS 4415 B25 ON NEW MONOPOLE, TYP. (1) PER SECTOR
INSTALL (3) RRUS 4415 B30 ON NEW MONOPOLE, TYP. (1) PER SECTOR
INSTALL (3) RRUS 4449 B5/B12 ON NEW MONOPOLE, TYP. (1) PER SECTOR
INSTALL (3) RRUS 8843 B2/B66A ON NEW MONOPOLE, TYP. (1) PER SECTOR
RELOCATE (3) RRUS 4478 B14 ON NEW MONOPOLE, TYP. (1) PER SECTOR
REMOVE (4) 1-5/8" & (8) 7/8" COAX CABLES
REMOVE (6) DC2 SURGE SUPPRESSORS FROM WATER TANK
INSTALL (3) DC9 NEAR ANTENNAS
INSTALL (9) POWER & (3) FIBER TRUNKS TO PROPOSED DC9
INSTALL (1) PURCELL FLX21 CABINET STACKED ON TOP OF EXISTING PURCELL CABINET
INSTALL (3) 6630 BBU WITHIN NEW PURCELL CABINET
INSTALL (1) DC12 SURGE SUPPRESSOR ON NEW H-FRAME AT EQUIPMENT AREA
INSTALL (1) RECTIFIER WITHIN EXISTING DCPP CABINET AT EQUIPMENT AREA
INSTALL (1) BATTERY CABINET WITH (2) STRINGS OF 185AH BATTERIES AT EQUIPMENT AREA
REMOVE (2) RBS3106 + (2) RBS2106 CABINETS FROM EQUIPMENT AREA
INSTALL (21) VERTIV POWER EXTEND CONVERTERS WITHIN THE EXISTING DC POWER PLANT
INSTALL (4) PROPOSED U/G 4" PVC CONDUITS FROM EQUIPMENT AREA TO BASE OF MONOPOLE

SHEET INDEX

Table with columns: REV., SHEET INDEX, REV. Rows for T-1, GN-1, GN-2, GN-3, LS-1, LS-2, A-1, A-2, A-2.1, A-3, A-3.1, A-4, A-5, RF-1, G-1, G-2, E-1.

AT&T logo and contact information: 5001 EXECUTIVE PKWY, SAN RAMON, CA 94583

J5 INFRASTRUCTURE logo and contact information: 2030 MAIN STREET, SUITE 200, IRVINE, CA 92614

AT&T Site ID: CVL06282

Revision table with columns: REV, DATE, DESCRIPTION, INT.

Licenser:
It is a violation of law for any persons, unless they are acting under the direction of a licensed professional engineer, to alter this document


CVL06282 LEMON VALLEY
530 E. PATRICIAN DRIVE
RENO, NV 89506

TITLE SHEET

T-1
Sheet Number: T-1

DIGI ALERT logo and contact information: 800-227-2600




  
 This Site Operated by:
   
**AT&T MOBILITY**
  
 5001 EXECUTIVE PKWY,
   
 SAN RAMON, CA 94583
   
 IN CASE OF FIRE AND THE NEED FOR SHUTDOWN
   
 TO DEACTIVATE ANTENNAS CALL THE
   
 FOLLOWING NUMBER:
   
 For 24 Hour Emergency Contact and Access Please Call:
   
 (800)832-6662

Reference Site#: CVL06282
  
 Site Address: 530 E. PATRICIAN DRIVE RENO, NV 89506

10 FENCED COMPOUND SIGNAGE  
N.T.S.

**DANGER**  
**NO**  
**TRESPASSING**

9 FENCED COMPOUND SIGNAGE  
N.T.S.

**INFORMATION**  
 Federal Communications Communication  
 Tower Registration Number  
**1 2 3 4 5 6 7**  
 Posted in accordance with Federal Communications  
 Commission rules and antenna tower registration  
 47CFR 17.4(g).

6 FCC ASR SIGNAGE  
N.T.S.

Property of AT&T  
**Authorized Personnel Only**  
 No Trespassing  
 Violators will be Prosecuted  
 In case of emergency, or prior to performing  
 maintenance on this site, call \_\_\_\_\_  
 and reference cell site number \_\_\_\_\_

5 GATE SIGNAGE  
N.T.S.

Property of AT&T  
**Authorized Personnel Only**  
 In case of emergency, or prior to performing  
 maintenance on this site, call \_\_\_\_\_  
 and reference cell site number \_\_\_\_\_

4 SHELTER / CABINET DOORS SIGNAGE  
N.T.S.

8 DOOR / EQUIPMENT SIGN  
N.T.S.



**DANGER**  
DIESEL FUEL  
NO SMOKING  
NO OPEN FLAMES



**DANGER**  
LEAD ACID BATTERIES  
CORROSIVE LIQUIDS (ELECTROLYTE)  
ENERGIZED ELECTRICAL CIRCUITS  
NO SMOKING

7 NFPA HAZARD SIGN - TYPICAL  
N.T.S.

**CAUTION**  
  
 AT&T operates antennas at this site.  
*Beyond This Point* you are entering an area  
 where radio frequency (RF) fields **may exceed** the  
 FCC Occupational Exposure Limits.  
 Follow safety guidelines for working in an RF  
 environment.  
 Contact AT&T at 800-638-2822, option 9 and 3,  
 and follow their instructions prior to performing  
 maintenance or repairs within the striped area.

Caution Sign 2A  
(8" x 12")  
Use only if instructed by RF Safety

**CAUTION**  
  
 AT&T operates antennas at this site.  
*Beyond This Point* you are entering an area  
 where radio frequency (RF) fields **may exceed** the  
 FCC Occupational Exposure Limits.  
 Follow safety guidelines for working in an RF  
 environment.  
 Contact AT&T at 800-638-2822, option 9 and 3,  
 and follow their instructions prior to performing  
 maintenance or repairs beyond this point.

Caution Sign 2  
(8" x 12")

**NOTICE**  
  
 AT&T operates antennas at this site.  
*Beyond This Point* you are entering an area  
 where radio frequency (RF) fields **may exceed** the  
 FCC General Population Exposure Limits.  
 Follow safety guidelines for working in an RF  
 environment.  
 Contact AT&T at 800-638-2822, option 9 and 3,  
 and follow their instructions prior to performing  
 maintenance or repairs above this point.

Notice Sign 2  
(8" x 12")

**CAUTION**  
  
 AT&T operates antennas at this site.  
*Beyond This Point* you are entering an area  
 where radio frequency (RF) fields **may exceed** the  
 FCC Occupational Exposure Limits.  
 Follow safety guidelines for working in an RF  
 environment.  
 Contact AT&T at 800-638-2822, option 9 and 3,  
 and follow their instructions prior to performing  
 maintenance or repairs beyond this point.

Caution Sign 2C Parapet  
(5" x 7")

**CAUTION**  
  
**On this tower:**  
 Radio frequency (RF) fields near some antennas  
 may exceed the FCC Occupational Exposure Limits.  
 Contact AT&T at 800-638-2822, option 9 and 3, and  
 follow their instructions prior to performing  
 maintenance or repairs beyond this point.  
 Personnel climbing this tower should be trained  
 for working in RF environments and use a personal  
 RF monitor if working near active antennas.

Caution Sign 2B Tower  
(8" x 12")  
Use for Towers only

ALL PAINT WILL BE BAKED w/ ENAMEL w/ UV PROTECTIVE COATING OVER THE FACE OF THE SIGN.

\*SIGN 1-2: POLE, SEE DETAIL 1B, THIS SHEET

SIGN 2 MUST BE A NON METALLIC LABEL w/ AN ADHESIVE BACKING. THE LABEL SHALL BE MADE USING VINYL OR SIMILAR WEATHERPROOF MATERIAL. THE LABEL SHALL BE APPROXIMATELY 5X7 INCHES w/ A WHITE BACKGROUND AND BLACK LETTERING. THE GREEN BAND SHALL BE 1.375 INCH IN HEIGHT & THE LETTERING SHALL BE BLACK w/ 0.75 INCH HIGH LETTERS. THE TEXT LETTERING SHALL BE BLACK w/ 1/8 INCH HIGH LETTERS. UV PROTECTION SHALL BE PLACED OVER THE FRONT OF THE LABEL.

\*SIGN 1-3: BACK OF ANTENNAS, SEE DETAIL 1C & 3, THIS SHEET

\*SIGN 3 IS A 1 INCH X 2 INCH PANEL THAT CAN BE APPLIED TO THE BACK OR SIDE OF AN ANTENNA TO IDENTIFY IT AS AN AT&T ANTENNA.

\*SIGN 1-4: SIDE OF ANTENNAS, SEE DETAIL 1D & 3, THIS SHEET

SIGN 4 IS MADE FROM TRANSPARENT MATERIAL 1-1/2 INCHES WIDE & 24 INCHES LONG. THE LETTERING IS TO BE BLACK w/ 1/8 INCH LETTERING IN A VERTICAL COLUMN. THE SPACING BETWEEN WORDS MUST BE SUCH THAT IT IS EASILY READ & FILLS THE LENGTH OF THE SIGN.

1. CONTRACTOR SHALL INSTALL ALL INFORMATION SIGNAGE IN ACCORDANCE w/ AT&T WIRELESS DOCUMENT #03-0074, RF EXPOSURE POLICY AND RF SAFETY COMPLIANCE PROGRAM, LATEST EDITION.

2. FABRICATION:

\*SIGN 1-1: ENTRANCE DOOR, SEE DETAIL 1A, THIS SHEET

SIGN 1 IS TO BE MADE ON THE 50 MIL ALUMINUM SHEETING (SIZE 8 INCHES BY 12 INCHES) w/ FOUR (4) 1/8 INCH MOUNTING HOLES. ONE EACH CORNER OF THE SIGN FOR MOUNTING w/ HARDWARE w/ TIE WRAPS. THE MAIN BACKGROUND COLOR IS TO BE WHITE FRONT & BACK w/ BLACK LETTERING.

THE INFORMATION BAND SHALL BE 1.2 INCH SOLID GREEN BAND w/ 0.5 INCH HIGH BLACK LETTERING. THE BODY TEXT SHALL BE IN BLACK LETTERING w/ 0.2 INCH HIGH LETTERS. THE REF LINE SHALL BE IN 1/8 INCH LETTERS.

THE PLACEMENT OF TEXT SHALL BE DONE IN A MANNER THAT WILL PERMIT EASY READING FROM A DISTANCE OF APPROXIMATELY 6 FEET IN FRONT OF THE SIGN.

SIGNAGE AND STRIPING INFORMATION

- THE FOLLOWING INFORMATION IS A GUIDELINE w/ RESPECT TO PREVALING STANDARDS LIMITING HUMAN EXPOSURE TO RADIO FREQUENCY ENERGY AND SHOULD BE USED AS SUCH. IF THE SITE'S EMF REPORT OR ANY LOCAL, STATE OR FEDERAL GUIDELINES OR REGULATIONS SHOULD BE IN CONFLICT w/ ANY PART OF THESE NOTES OR PLANS, THE MORE RESTRICTIVE GUIDELINE OR REGULATION SHALL BE FOLLOWED AND OVERRIDE THE LESSER.
- THE PUBLIC LIMIT OF RF EXPOSURE ALLOWED BY AT&T IS 1mW/cm<sup>2</sup> AND THE OCCUPATIONAL LIMIT OF RF EXPOSURE ALLOWED BY AT&T IS 5mW/cm<sup>2</sup>
- IF THE BOTTOM OF THE ANTENNA IS MOUNTED (8) EIGHT FEET ABOVE THE GROUND OR WORKING PLATFORM, LINE OF THE PERSONAL COMMUNICATION SYSTEM (PCS) AND DOES NOT EXCEED THE PUBLIC LIMIT OF RF EXPOSURE LIMIT THEN NO STRIPING OR BARRICADES SHOULD BE NEEDED.
- IF THE PUBLIC LIMIT OF RF EXPOSURE ON THE SITE IS EXCEEDED AND THE AREA IS PUBLICLY ACCESSIBLE (e.g. ROOF ACCESS DOOR THAT CANNOT BE LOCKED, OR FIRE EGRESS) THEN BOTH BARRICADES AND STRIPING SHALL BE PLACED AROUND THE ANTENNAS. THE EXACT EXTENT OF THE BARRICADES AND STRIPING SHALL BE DETERMINED BY THE EMF REPORT FOR THE SITE DONE BEFORE OR SHORTLY AFTER COMPLETION OF SITE CONSTRUCTION. USE THE PLANS AS A GUIDELINE FOR PLACEMENT OF SUCH BARRICADES AND STRIPING.
- IF THE PUBLIC LIMIT OF RF EXPOSURE ON THE SITE IS EXCEEDED AND THE AREA IS PUBLICLY ACCESSIBLE (e.g. ROOF ACCESS DOOR THAT CANNOT BE LOCKED, OR FIRE EGRESS) THEN BOTH BARRICADES AND STRIPING SHALL BE PLACED AROUND THE ANTENNAS. THE EXACT EXTENT OF THE BARRICADES AND STRIPING SHALL BE DETERMINED BY THE EMF REPORT FOR THE SITE DONE BEFORE OR SHORTLY AFTER COMPLETION OF SITE CONSTRUCTION. USE THE PLANS AS A GUIDELINE FOR PLACEMENT OF SUCH BARRICADES AND STRIPING.
- ALL TRANSMIT ANTENNAS REQUIRE A THREE LANGUAGE WARNING SIGN WRITTEN IN ENGLISH, SPANISH, AND CHINESE. THIS SIGN SHALL BE PROVIDED TO THE CONTRACTOR Y THE AT&T CONSTRUCTION PROJECT MANAGER AT THE TIME OF CONSTRUCTION. THE LARGER SIGN SHALL BE PLACED IN PLAIN SIGHT AT ALL ROOF ACCESS LOCATIONS AND ON ALL BARRICADES. THE SMALLER SIGN SHALL BE PLACED ON THE ANTENNA ENCLOSURES IN A MANNER THAT IS EASILY SEEN BY ANY PERSON ON THE ROOF. WARNING SIGNS SHALL COMPLY w/ ANSI C95.2 COLOR, SYMBOL, AND CONTENT CONVENTIONS. ALL SIGNS SHALL HAVE AT&T'S NAME AND THE COMPANY CONTACT INFORMATION (e.g. TELEPHONE NUMBER) TO ARRANGE FOR ACCESS TO THE RESTRICTED AREAS. THIS TELEPHONE NUMBER SHALL BE PROVIDED TO THE CONTRACTOR BY THE AT&T CONSTRUCTION PROJECT MANAGER AT THE TIME OF CONSTRUCTION.
- PHOTOS OF ALL STRIPING, BARRICADES & SIGNAGE SHALL BE PART OF THE CONTRACTORS CLOSE OUT PACKAGE & SHALL BE TURNED INTO THE AT&T CONSTRUCTION PACKAGE & SHALL BE TURNED INTO THE AT&T CONSTRUCTION PROJECT MANAGER AT THE END OF CONSTRUCTION. STRIPING SHALL BE DONE w/ FADE RESISTANT YELLOW SAFETY PAINT IN A CROSS-HATCH PATTERN AS DETAILED BY THE CONSTRUCTION DRAWINGS. ALL BARRICADES SHALL BE MADE OF AN RF FRIENDLY MATERIAL SO AS NOT TO BLOCK OR INTERFERE w/ THE OPERATION OF THE ANTENNAS. BARRICADES SHALL BE PAINTED w/ FADE RESISTANT YELLOW SAFETY PAINT. THE CONTRACTOR SHALL PROVIDE ALL RF FRIENDLY BARRICADES NEEDED, & SHALL PROVIDE THE AT&T CONSTRUCTION PROJECT MANAGER w/ A DETAILED SHOP DRAWING OF EACH BARRICADE. UPON CONSTRUCTION COMPLETION.

1 GENERAL NOTES  
N.T.S.

PREPARED FOR



5001 EXECUTIVE PKWY,  
SAN RAMON CA 94583

Vendor:



2030 MAIN STREET, SUITE 200  
IRVINE, CA 92614  
P-044153

AT&T Site ID:

**CVL06282**

REV	DATE	DESCRIPTION	INT.
E	8/21/20	REMOVED UMS 800 MM3	
D	7/30/20	E-SHEET REQUIRES JF	
C	7/27/20	RFDS 06/19/20 MM3	
B	5/20/20	90% ZD - PER SURVEY	JY
A	4/12/20	90% ZD	JY

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issued For:

**CVL06282**

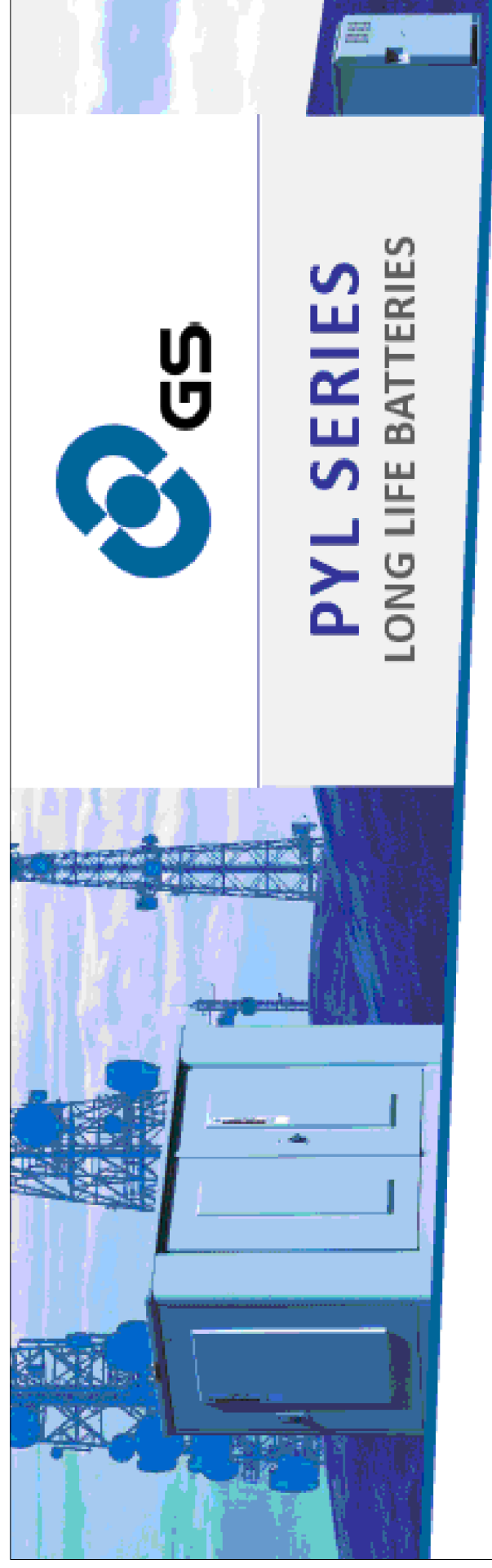
**LEMON VALLEY**  
 530 E. PATRICIAN DRIVE  
 RENO, NV 89506

Sheet Title:

**SITE SIGNAGE**

Sheet Number:

**GN-2**



**BECAUSE WHEN THE POWER IS OUT, YOU DON'T WANT THEIR PHONES TO BE.**

**10 YEAR DESIGN LIFE**  
Exceeds TELCORDIA GR-3200 criteria  
Greater than 5 years at 35°C

**CAPACITY RANGE**  
45Ah - 200Ah

**HIGH TEMPERATURE LONG LIFE DESIGN**  
Primary lead for long life  
Low calcium alloy for long life  
Additives to maintain compression  
Designed to control charging current as temperature increases  
No thermal runaway  
Epoxy sealed terminals to prevent post leaks  
Rugged ABS cases to minimize handling damage

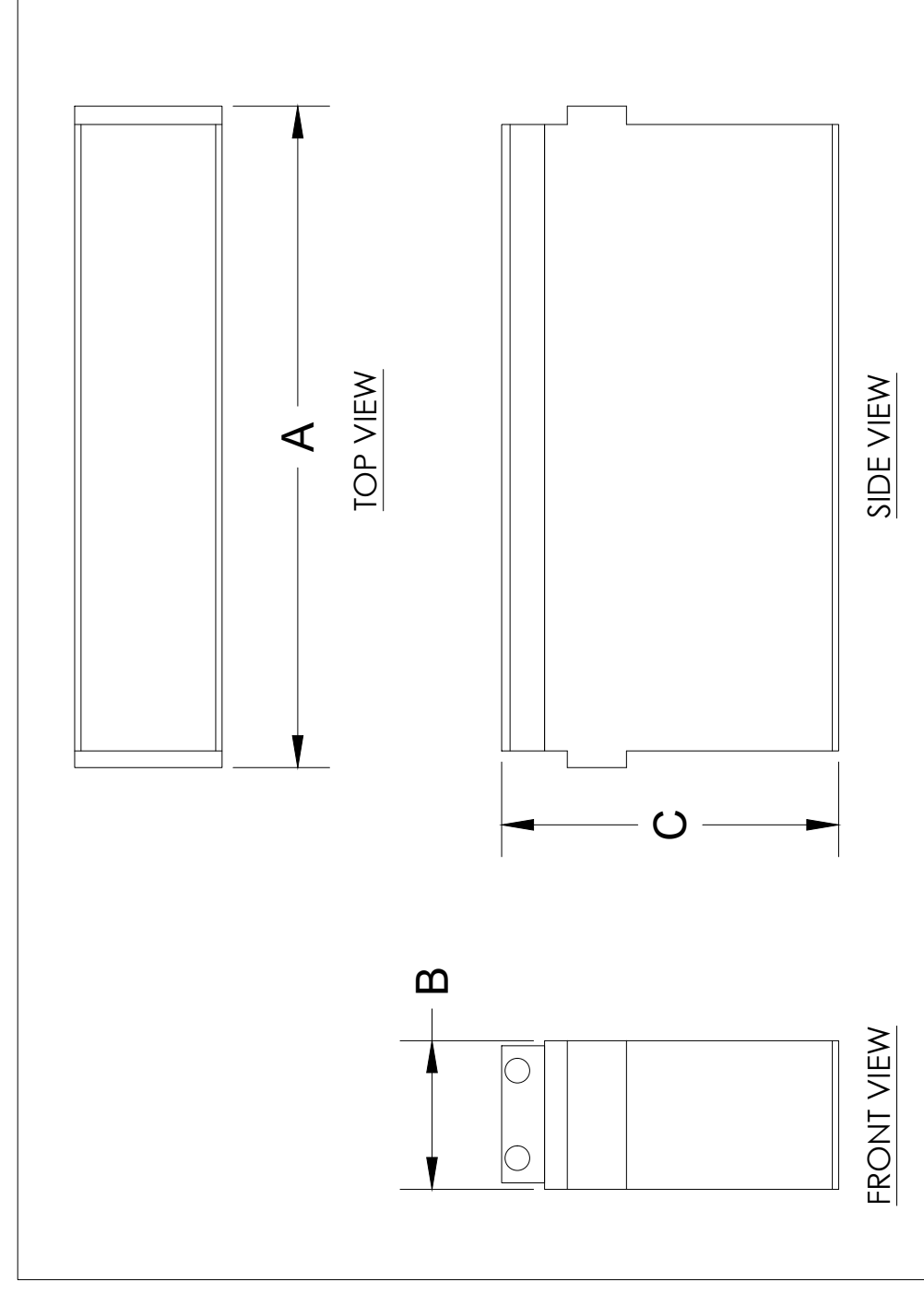
**COMPLIANCE**  
VZ TPR-9802  
GR-4228  
GR-1089  
GR-63 REES

**SAFETY**  
UL 94V0  
UL 1989

**ABOUT THE PYL SERIES**  
Proven in the real world, the Pyl Series of telecom batteries provides security and long life in extreme climates where other VRLA batteries just don't survive. The Pyl technology utilizes proprietary lead alloys and active material additives. The Pyl Series is the most cost effective battery solution over the total life cycle and for initial installation in your network.

**GS BATTERY FRONT TERMINAL SPECIFICATIONS**

MODEL NUMBER	VOLTAGE	CAPACITY (Ah)			NOMINAL DIMENSIONS INCHES			NOMINAL DIMENSIONS MILLIMETERS			NOMINAL WEIGHT LBS.	NOMINAL WEIGHT KG.
		8HR TO 1.75V @ 25°C	AMPERES/WATTS TO 1.75V @ 25°C	A	B	C	A	B	C			
PYL12V160FT	12	160	62.6 / 739	21.9	4.9	11.0	556	125	280	52.7	116.2	
PYL12V185FT	12	185	71.2 / 829	21.9	4.9	12.5	556	125	317	60.7	133.8	



**GS BATTERY FRONT TERMINAL SPECIFICATIONS**

MODEL NUMBER	INTERNAL RESISTANCE (mOhms)
PYL12V160FT	2.5
PYL12V185FT	3.5

FLOAT VOLTAGE & CHARGING  
CONSTANT VOLTAGE CHARGING IS RECOMMENDED.  
RECOMMENDED FLOAT VOLTAGE: 1.75 VPC @ 25°C (77°F)

NOTE:  
DESIGN AND/OR SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE. IF QUESTIONS ARISE, CONTACT YOUR LOCAL GNB SALES REPRESENTATIVE FOR CLARIFICATION.

PREPARED FOR  
**AT&T**  
5001 EXECUTIVE PKWY.  
SAN RAMON, CA 94583

Vendor:  
**J5 INFRASTRUCTURE**  
2030 MAIN STREET, SUITE 200  
IRVINE, CA 92614  
P-044153

AT&T Site ID:  
**CVL06282**

REV	DATE	DESCRIPTION	INT.
E	8/21/20	REMOVED UNITS 800, MM3	
D	7/30/20	E-SHEET REDESIGNS JF	
C	7/27/20	RFDS 06/18/20 MM3	
B	5/20/20	90% ZD - PER SURVEY JY	
A	4/2/20	90% ZD JY	

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Issued For:  
**CVL06282**  
**LEMON VALLEY**  
530 E. PATRICIAN DRIVE  
RENO, NV 89506

Sheet Title:  
**MATERIAL SAFETY DATA SHEET & LEAD ACID BATTERY**

Sheet Number:  
**GN-3**

**BATTERY INFORMATION (VRLA TYPE BATTERIES)**

INSTALL STATUS	BATTERY MODEL	TOTAL # OF BATTERY UNITS INSTALLED (EA)	VOLTAGE (V)	AMP-HOURS (AH)	KWh, Kilowatt-hours = (V*AH)/1000	TOTAL BATTERY CAPACITY, KWh	TOTAL ELECTROLYTE VOLUME (GALLONS) PER UNIT	TOTAL ELECTROLYTE BY VOLUME (GALLONS) =
EXISTING TO REMAIN	GNB INDUSTRIAL POWER MARATHON - M12V180FT	12	12	180	2.16	25.92	2.47	29.64
PROPOSED	GS PYL12V185FT	8	12	185	2.22	17.76	2.504	20.032
TOTAL		20				43.68		49.672



PREPARED FOR



5001 EXECUTIVE PKWY,  
SAN RAMON CA 94583

Vendor:



2030 MAIN STREET, SUITE 200  
IRVINE, CA 92614  
P-044153

AT&T Site ID:  
**CVL06282**

REV	DATE	DESCRIPTION	INT.
E	8/21/20	REMOVED UMIS 850	MM3
D	7/30/20	E-SHEET REVISIONS	JF
C	7/27/20	RFS 06/18/20	MM3
B	5/20/20	90% ZD - PER SURVEY	JY
A	4/2/20	90% ZD	JY

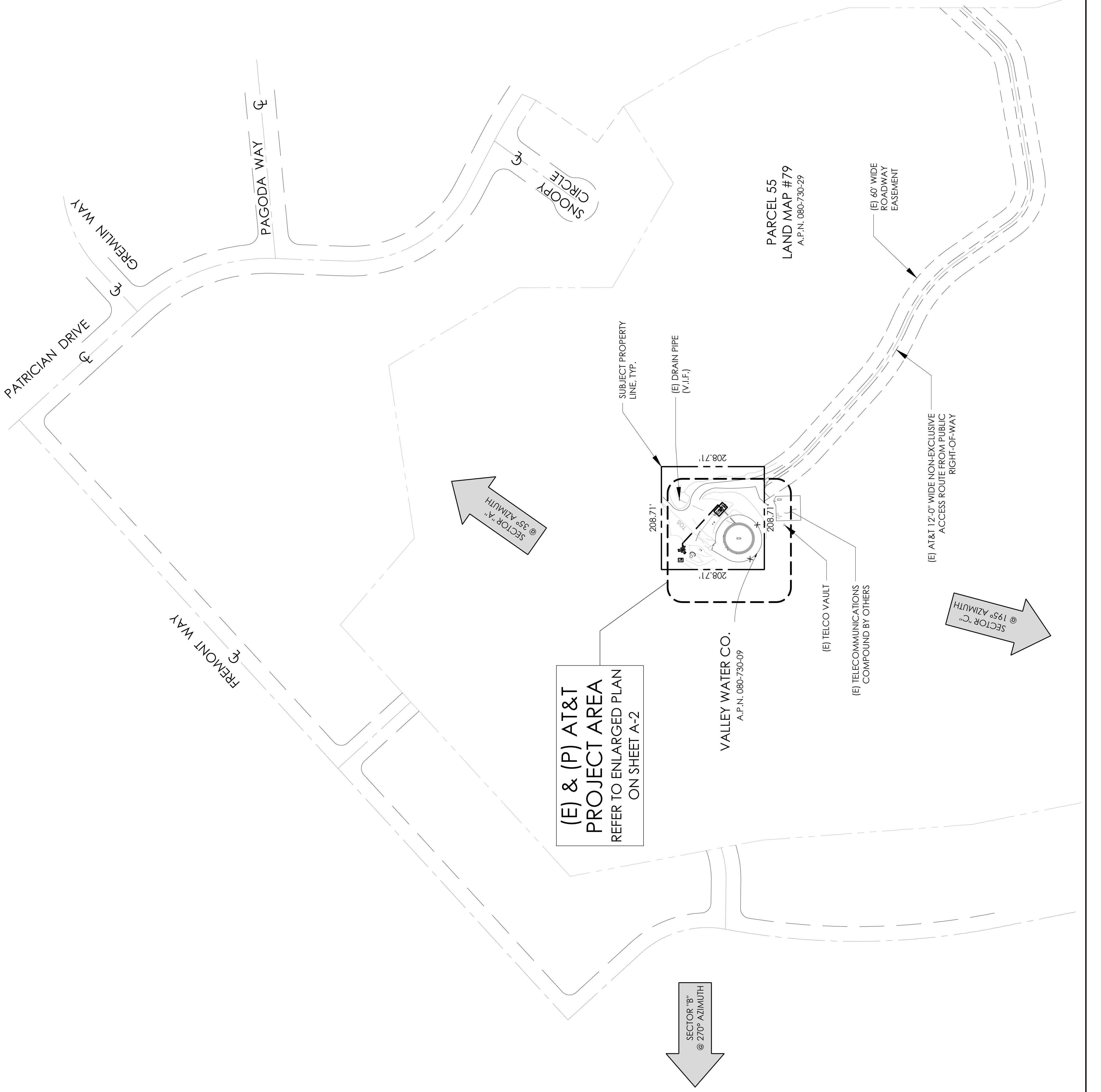
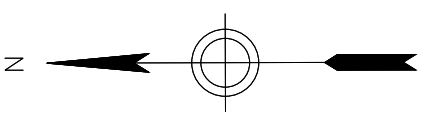
licensor:

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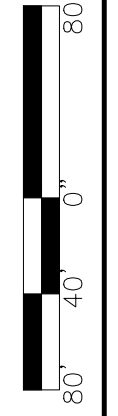
Issued For:  
**CVL06282**  
**LEMON VALLEY**  
530 E. PATRICIAN DRIVE  
RENO, NV 89506

Sheet Title:  
**OVERALL SITE PLAN**

Sheet Number:  
**A-1**



24" x 36" SCALE: 1" = 80'-0"  
11" x 17" SCALE: 1" = 160'-0"



PREPARED FOR



5001 EXECUTIVE PKWY,  
SAN RAMON, CA 94583

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A	4/2/20	90% ZD	JY

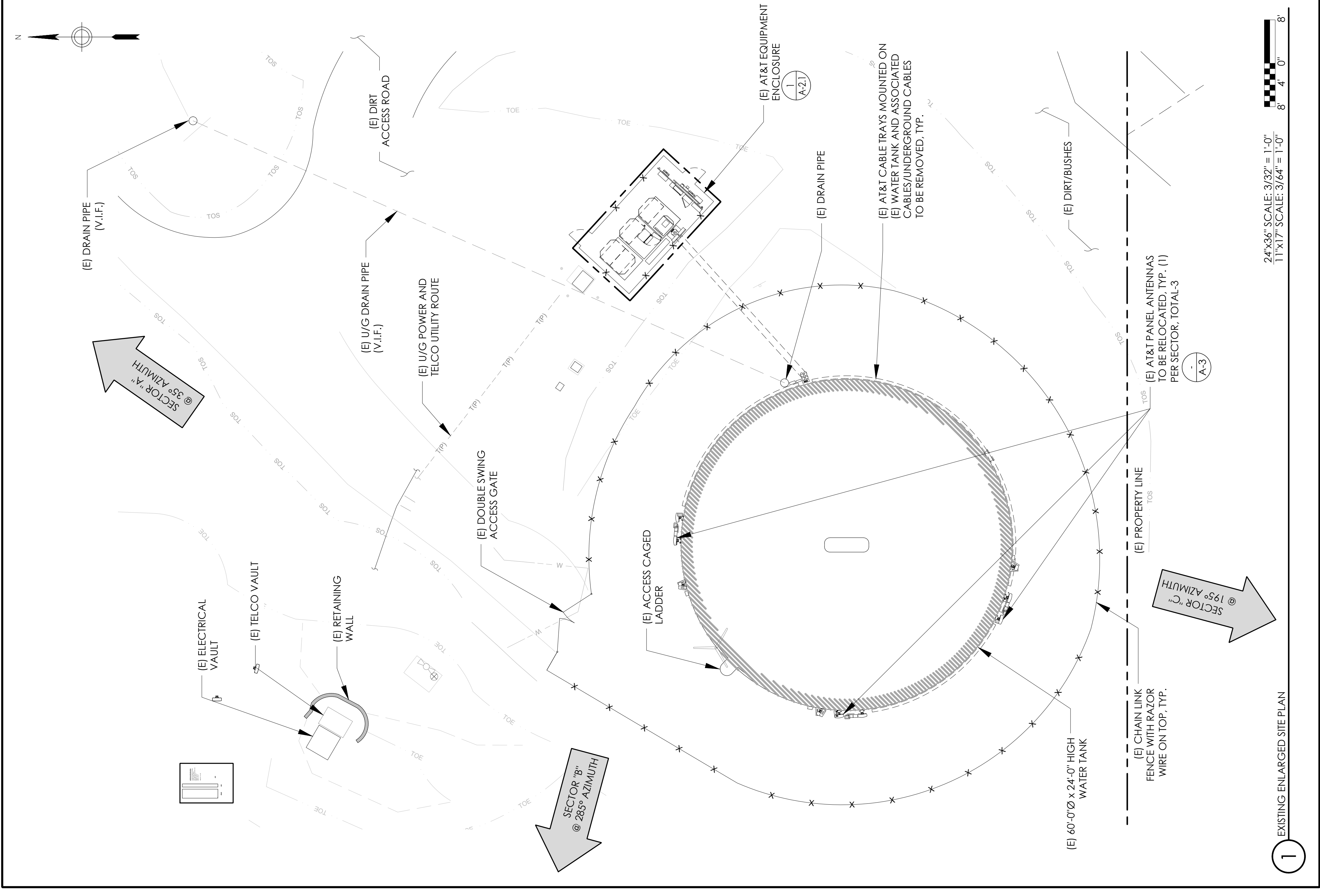
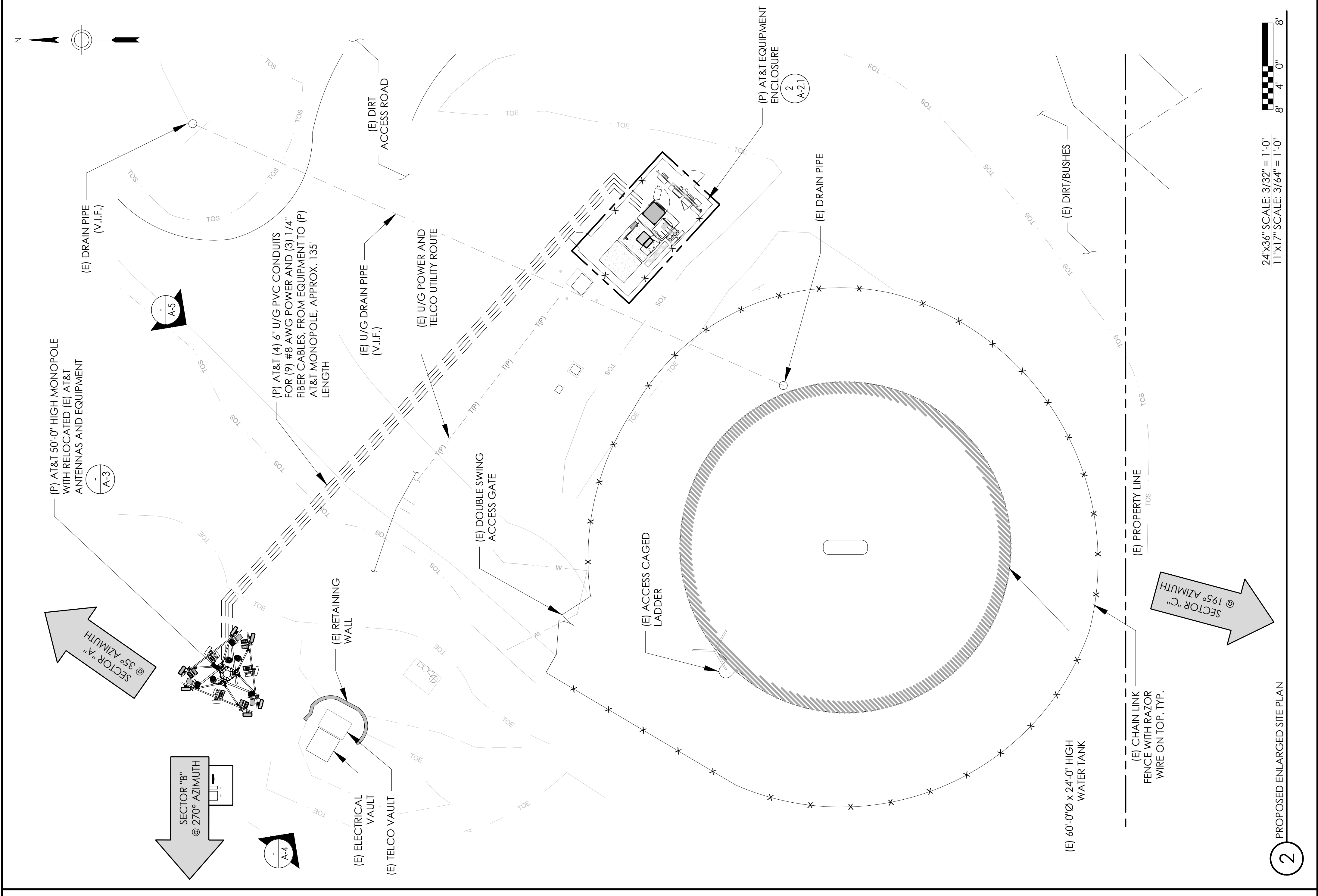
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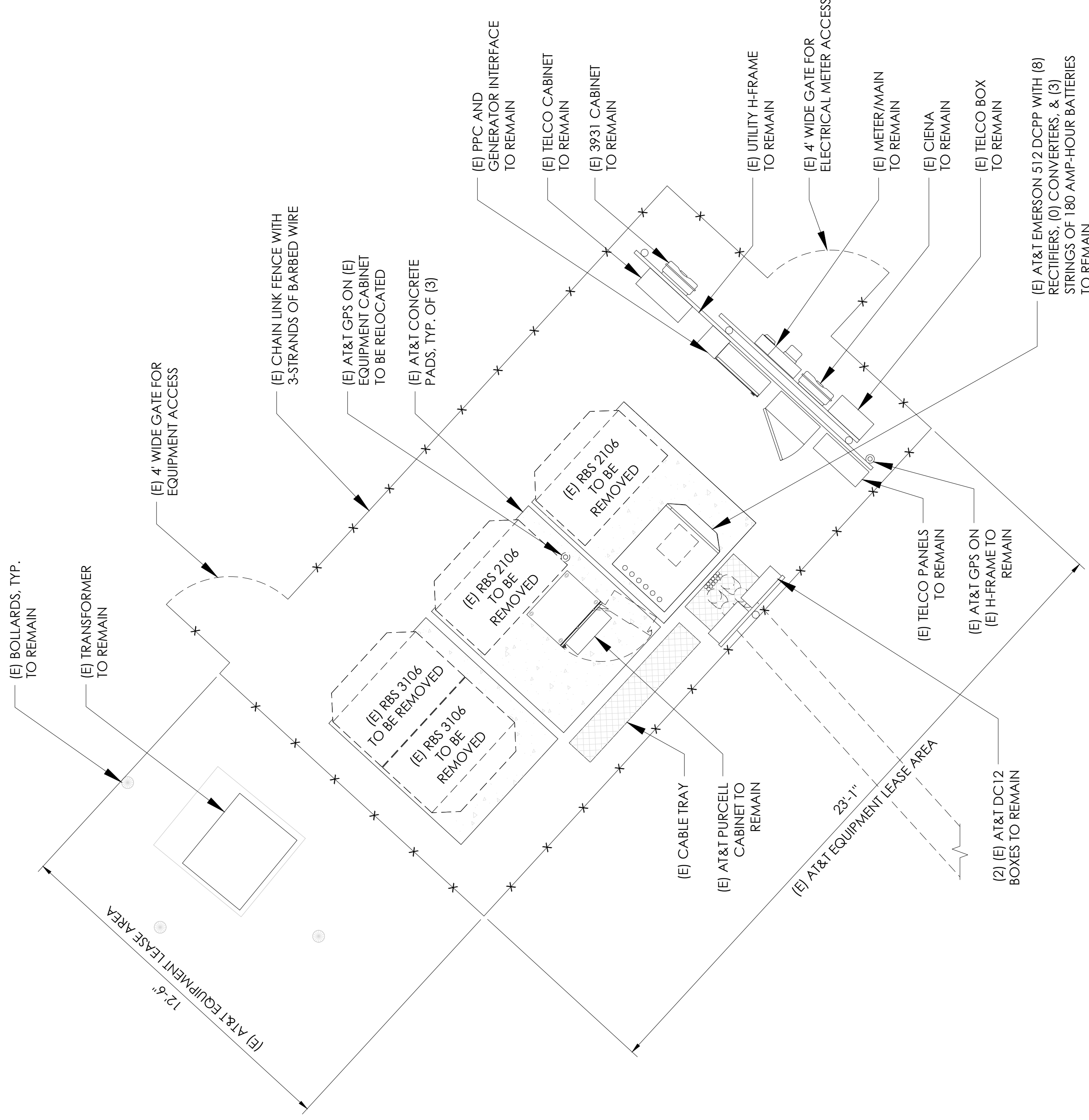
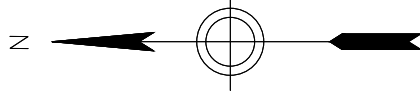
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**LEMON VALLEY**  
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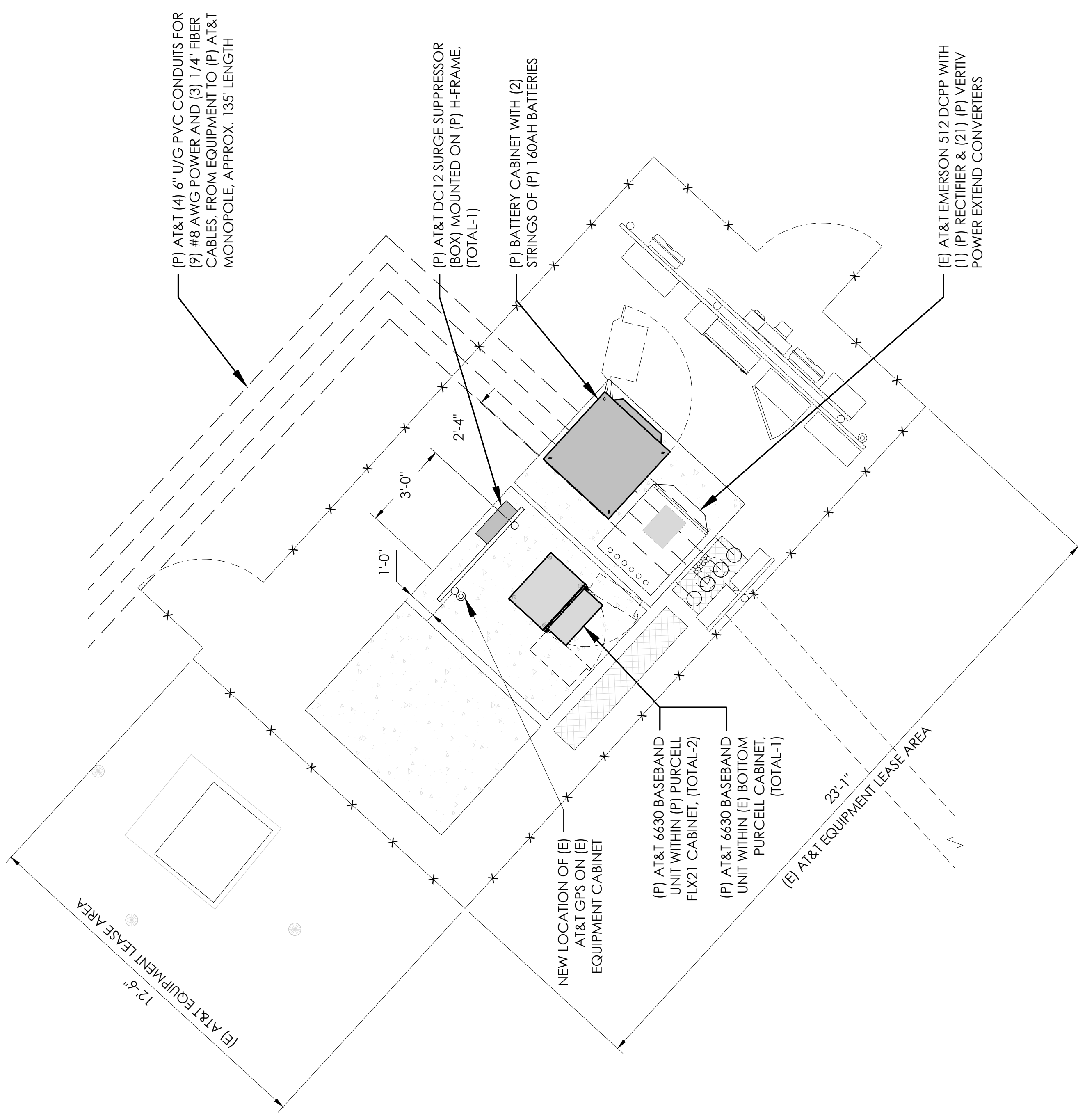
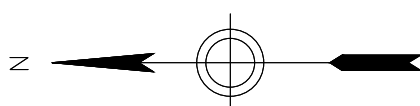
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**ENLARGED SITE PLANS**

Sheet Number:  
**A-2**



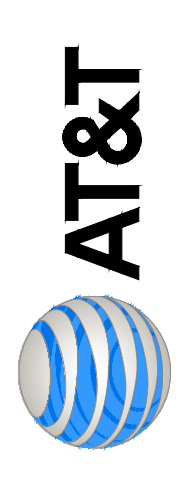


24"=36" SCALE: 3/8" = 1'-0"  
11"X17" SCALE: 3/16" = 1'-0"



24"=36" SCALE: 3/8" = 1'-0"  
11"X17" SCALE: 3/16" = 1'-0"

PREPARED FOR



5001 EXECUTIVE PKWY,  
SAN RAMON CA 94583

Vendor:



2030 MAIN STREET, SUITE 200  
IRVINE, CA 92614  
P-044153

AT&T Site ID:

**CVL06282**

REV	DATE	DESCRIPTION	INT.
E	8/21/20	REMOVED UMS 800 MM3	
D	7/30/20	E-SHEET REQUIRES JF	
C	7/27/20	RFS 06/18/20 MM3	
B	5/20/20	90% ZD - PER SURVEY	JY
A	4/2/20	90% ZD	JY

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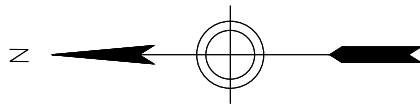
**CVL06282**  
**LEMON VALLEY**  
530 E. PATRICIAN DRIVE  
RENO, NV 89506

Sheet Title:

**EQUIPMENT PLANS**

Sheet Number:

**A-2.1**



SECTOR "A"  
@ 35° AZIMUTH

(E) AT&T PANEL ANTENNAS TO BE RELOCATED. (TOTAL-3)

(E) AT&T RRU 11 TO BE REMOVED. TYP. 1 PER SECTOR (TOTAL-3)

(E) WHIP ANTENNA

(E) ACCESS CAGED LADDER

SECTOR "B"  
@ 285° AZIMUTH

(E) DRAIN PIPE

(E) AT&T RRU 4478 B14 TO BE RELOCATED. TYP. 1 PER SECTOR (TOTAL-3)

(E) 60'-0"Ø x 24'-0" HIGH WATER TANK

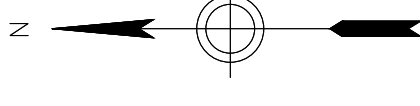
(E) AT&T RRU 32 TO BE REMOVED. TYP. 2 PER SECTOR (TOTAL-6)

(E) AT&T CABLE TRAYS MOUNTED ON (E) WATER TANK AND ASSOCIATED CABLES/UNDERGROUND CABLES TO BE REMOVED. TYP.

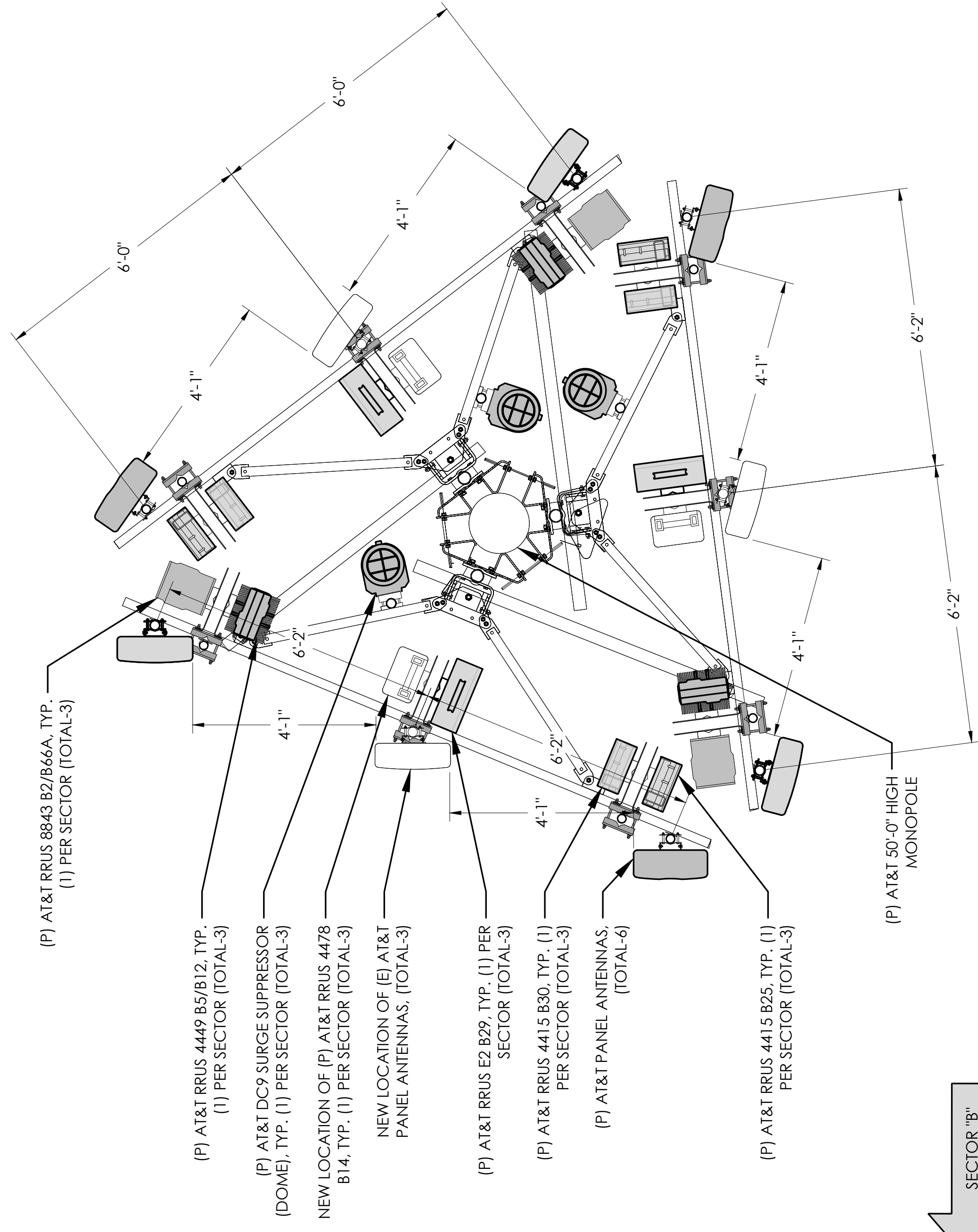
(E) AT&T RRU 12 TO BE REMOVED. TYP. 1 PER SECTOR (TOTAL-3)

SECTOR "C"  
@ 195° AZIMUTH

24"x36" SCALE: 3/16" = 1'-0"  
11"x17" SCALE: 3/32" = 1'-0"



SECTOR "A"  
@ 35° AZIMUTH



SECTOR "B"  
@ 270° AZIMUTH

SECTOR "C"  
@ 195° AZIMUTH

24"x36" SCALE: 1/2" = 1'-0"  
11"x17" SCALE: 1/4" = 1'-0"

PREPARED FOR



5001 EXECUTIVE PKWY,  
SAN RAMON CA 94583

Vendor:



2030 MAIN STREET, SUITE 200  
IRVINE, CA 92614  
P-044153

AT&T Site ID:

**CVL06282**

E	8/21/20	REMOVED UMS 850	MM3
D	7/30/20	E-SHEET REVISIONS	JF
C	7/27/20	RFS 04/18/20	MM3
B	5/20/20	90% ZD - PER SURVEY	JY
A	4/2/20	90% ZD	JY
REV	DATE	DESCRIPTION	INT.

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Sheet Title:

**ANTENNA PLANS**

Sheet Number:

**A-3**

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IRVINE, CA 92614  
P-044153

AT&T Site ID:

# CVL06282

REV	DATE	DESCRIPTION	INT.
E	8/21/20	REMOVED UMS 800, MM3	
D	7/30/20	E-SHEET REQUIRES JF	
C	7/27/20	RFDS 06/19/20 MM3	
B	5/20/20	90% ZD - PER SURVEY	JY
A	4/2/20	90% ZD	JY

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**LEMON VALLEY**  
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RENO, NV 89506

Sheet Title:

## PROPOSED RF SCHEDULE

Sheet Number:

# A-3.1

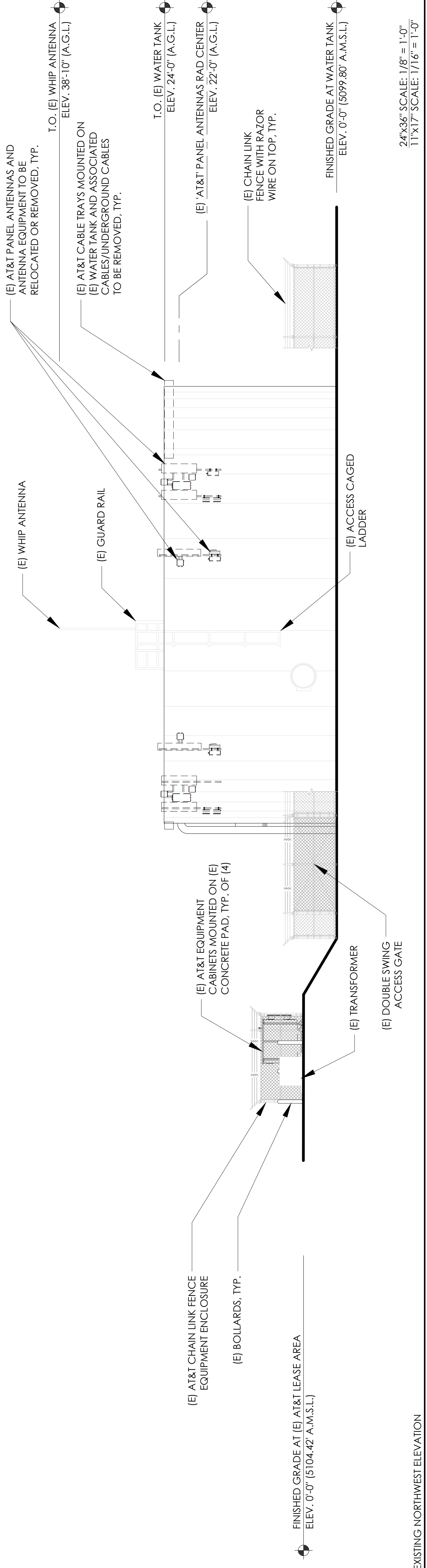
NOTE: (E) ANTENNA AZIMUTHS ARE ESTIMATED AND ARE TO BE VERIFIED BY RF.

NOTES TO CONTRACTOR:  
CONTRACTOR IS TO REFER TO AT&T'S MOST CURRENT RADIO FREQUENCY DATA SHEET (RFDS) PRIOR TO CONSTRUCTION.  
CABLE LENGTHS WERE DETERMINED BASED ON VISUAL INSPECTION DURING SITE-WALK.  
CONTRACTOR TO VERIFY ACTUAL LENGTH DURING PRE-CONSTRUCTION WALK.  
CONTRACTOR TO VERIFY PORTS HAVE SUFFICIENT ROOM.

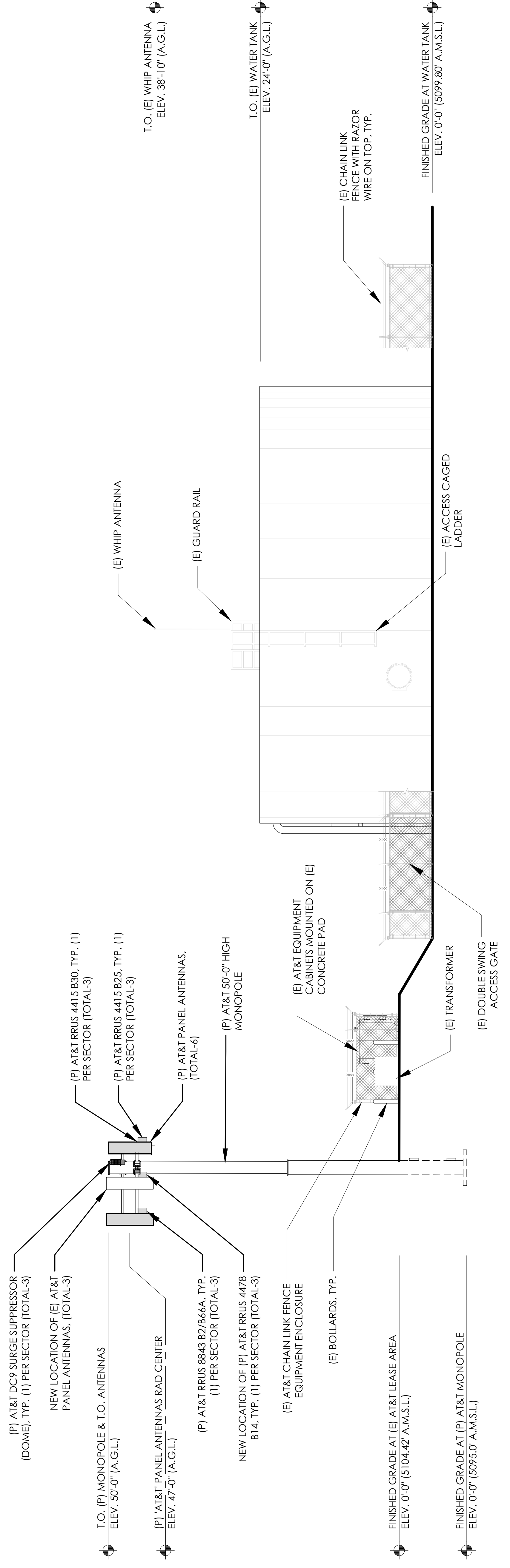
Position	Antenna					RRU, TMA, Diplexer, Etc.					Additional Antenna Information					Line Information						
	Use Existing/Type		Technology			Existing		Final			Type		Location		Azimuth		RAD		Coax Cables		Power/Fiber	
	Swap/New	Type	Existing	Final	Existing	Final	Existing	Final	Existing	Final	Existing	Final	Existing	Final	Existing	Final	Existing	Final	Existing	Final		
<b>ALPHA</b>																						
1	RELOCATE & SWAP	KATHREIN 800-10991 K	KATHREIN 800-10965K	UMTS 850 LTE WCS	LTE 1900/LTE AWS LTE 700/5G 850	RRUS 32 B66 RRUS 32 B30	RRUS 8843 B2/B66A RRUS 4449 B5/B12	TOP TOP	RRUS 8843 B2/B66A RRUS 4449 B5/B12	RRUS 8843 B2/B66A RRUS 4449 B5/B12	TOP TOP	TOP TOP	0 0	0 0	22 22	47 47	(4) 7/8" COAX		(5) 0.8 DC POWER TRUNKS + (2) 0.4 FIBER TRUNKS		(9) 0.8 DC POWER TRUNKS + (3) 0.4 FIBER TRUNKS	
2	RELOCATE	KATHREIN 800-10965K	KATHREIN 800-10965K	LTE 700 FNET	LTE 700 FNET	RRUS 4478 B14 (2) KRY 112 71/2	RRUS 4478 B14	RRUS 4478 B14	RRUS 4478 B14	RRUS 4478 B14	RRUS 4478 B14	RRUS 4478 B14	0	0	22	47						
3	RELOCATE & SWAP	COMMSCOPE SBNH-1D6565B	ANDREW NNH4-65B-R6H4	LTE 700 LTE 1900	LTE 700 LTE 1900 LTE WCS	RRUS 11 B12 RRUS 12 B2	RRUS E2 B29 RRUS 4415 B25 RRUS 4415 B30	RRUS E2 B29 RRUS 4415 B25 RRUS 4415 B30	RRUS E2 B29 RRUS 4415 B25 RRUS 4415 B30	RRUS E2 B29 RRUS 4415 B25 RRUS 4415 B30	RRUS E2 B29 RRUS 4415 B25 RRUS 4415 B30	RRUS E2 B29 RRUS 4415 B25 RRUS 4415 B30	0	0	22	47						
<b>BETA</b>																						
1	RELOCATE & SWAP	COMMSCOPE SBNH-1D6565B	KATHREIN 800-10965K	LTE 700 LTE 1900	LTE 700/5G 850 LTE 1900/LTE AWS	RRUS 11 B12 RRUS 12 B2	RRUS 4449 B5/B12 RRUS 8843 B2/B66A	RRUS 4449 B5/B12 RRUS 8843 B2/B66A	RRUS 4449 B5/B12 RRUS 8843 B2/B66A	RRUS 4449 B5/B12 RRUS 8843 B2/B66A	RRUS 4449 B5/B12 RRUS 8843 B2/B66A	RRUS 4449 B5/B12 RRUS 8843 B2/B66A	285	270	22	47	(4) 1.5-8" COAX		(5) 0.8 DC POWER TRUNKS + (2) 0.4 FIBER TRUNKS		(9) 0.8 DC POWER TRUNKS + (3) 0.4 FIBER TRUNKS	
2	RELOCATE	KATHREIN 800-10965K	KATHREIN 800-10965K	LTE 700 FNET	LTE 700 FNET	RRUS 4478 B14 (2) KRY 112 71/2	RRUS 4478 B14	RRUS 4478 B14	RRUS 4478 B14	RRUS 4478 B14	RRUS 4478 B14	RRUS 4478 B14	285	270	22	47						
3	RELOCATE & SWAP	KATHREIN 800-10991 K	ANDREW NNH4-65B-R6H4	UMTS 850 LTE WCS	LTE 700 LTE 1900 LTE WCS	RRUS 32 B66 RRUS 32 B30	RRUS E2 B29 RRUS 4415 B25 RRUS 4415 B30	RRUS E2 B29 RRUS 4415 B25 RRUS 4415 B30	RRUS E2 B29 RRUS 4415 B25 RRUS 4415 B30	RRUS E2 B29 RRUS 4415 B25 RRUS 4415 B30	RRUS E2 B29 RRUS 4415 B25 RRUS 4415 B30	RRUS E2 B29 RRUS 4415 B25 RRUS 4415 B30	285	270	22	47						
<b>GAMMA</b>																						
1	RELOCATE	KATHREIN 800-10965K	KATHREIN 800-10965K	LTE 700 FNET	LTE 700/5G 850 LTE 1900/LTE AWS	RRUS 4478 B14	RRUS 4449 B5/B12 RRUS 8843 B2/B66A	RRUS 4449 B5/B12 RRUS 8843 B2/B66A	RRUS 4449 B5/B12 RRUS 8843 B2/B66A	RRUS 4449 B5/B12 RRUS 8843 B2/B66A	RRUS 4449 B5/B12 RRUS 8843 B2/B66A	RRUS 4449 B5/B12 RRUS 8843 B2/B66A	195	195	22	47	(4) 7/8" COAX		(5) 0.8 DC POWER TRUNKS + (2) 0.4 FIBER TRUNKS		(9) 0.8 DC POWER TRUNKS + (3) 0.4 FIBER TRUNKS	
2	RELOCATE & SWAP	KATHREIN 800-10991 K	KATHREIN 800-10965K	UMTS 850 LTE WCS	LTE 700 FNET	RRUS 32 B66A RRUS 32 B30	RRUS 4478 B14	RRUS 4478 B14	RRUS 4478 B14	RRUS 4478 B14	RRUS 4478 B14	RRUS 4478 B14	195	195	22	47						
3	RELOCATE & SWAP	ANDREW SBNH-1D6565B	ANDREW NNH4-65B-R6H4	LTE 850 LTE 1900	LTE 700 LTE 1900 LTE WCS	RRUS 11 B12 RRUS 12 B2	RRUS E2 B29 RRUS 4415 B25 RRUS 4415 B30	RRUS E2 B29 RRUS 4415 B25 RRUS 4415 B30	RRUS E2 B29 RRUS 4415 B25 RRUS 4415 B30	RRUS E2 B29 RRUS 4415 B25 RRUS 4415 B30	RRUS E2 B29 RRUS 4415 B25 RRUS 4415 B30	RRUS E2 B29 RRUS 4415 B25 RRUS 4415 B30	195	195	22	47						

REV	DATE	DESCRIPTION	INT.
E	8/21/20	REMOVED UMS 800, MMS3	
D	7/30/20	E-SHEET REVISIONS, JF	
C	7/27/20	RFS 06/18/20, MMS3	
B	5/20/20	90% ZD - PER SURVEY	JY
A	4/2/20	90% ZD	JY

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1 EXISTING NORTHWEST ELEVATION

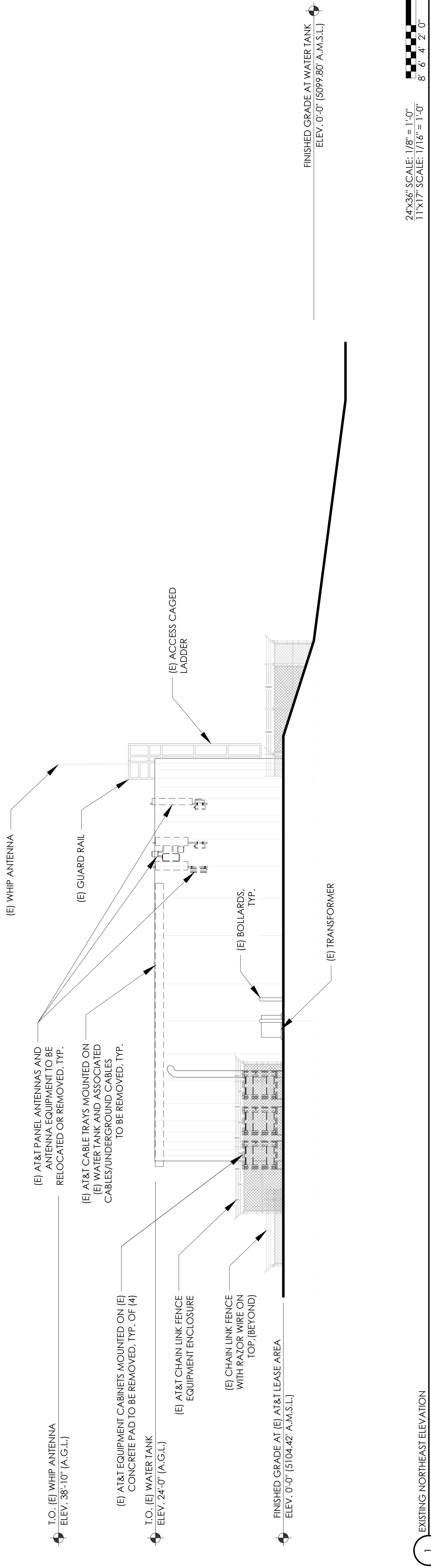


2 PROPOSED NORTHWEST ELEVATION

REV	DATE	DESCRIPTION	INT.
E	8/21/20	REMOVED UMS 800, MMS	
D	7/30/20	E-SHEET REDESIGNS	JF
C	7/27/20	RFS 06/18/20	MMS
B	5/20/20	90% ZD - PER SURVEY	JY
A	4/2/20	90% ZD	JY

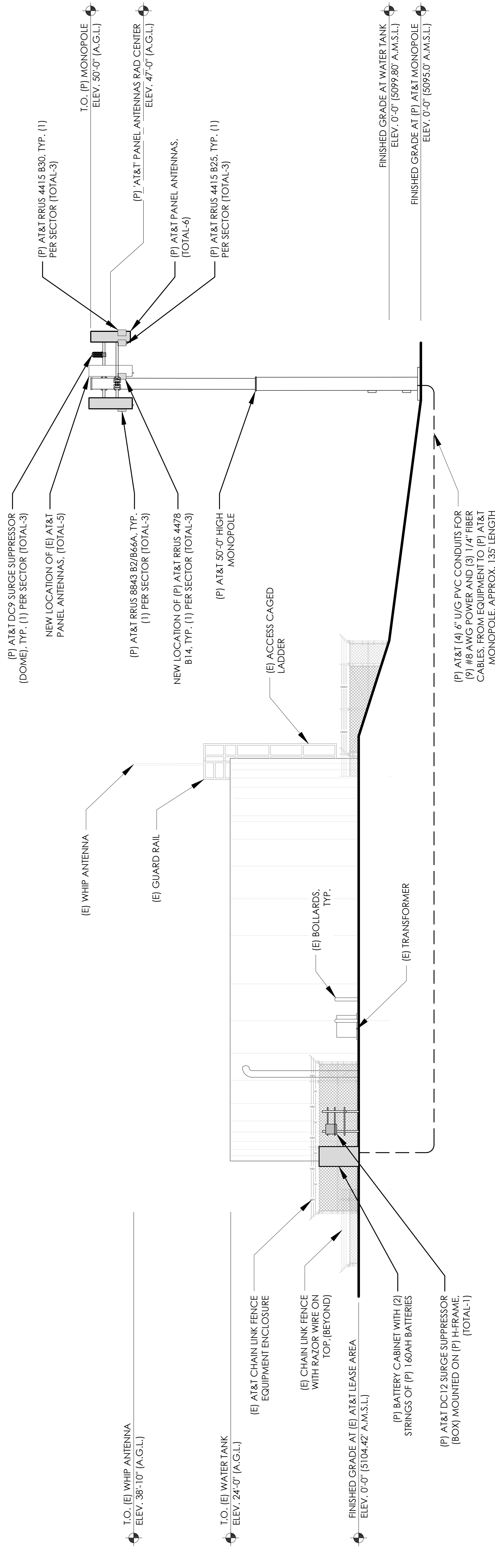
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24"x36" SCALE: 1/8" = 1'-0"  
 11"x17" SCALE: 1/16" = 1'-0"

1 EXISTING NORTHEAST ELEVATION



24"x36" SCALE: 1/8" = 1'-0"  
 11"x17" SCALE: 1/16" = 1'-0"

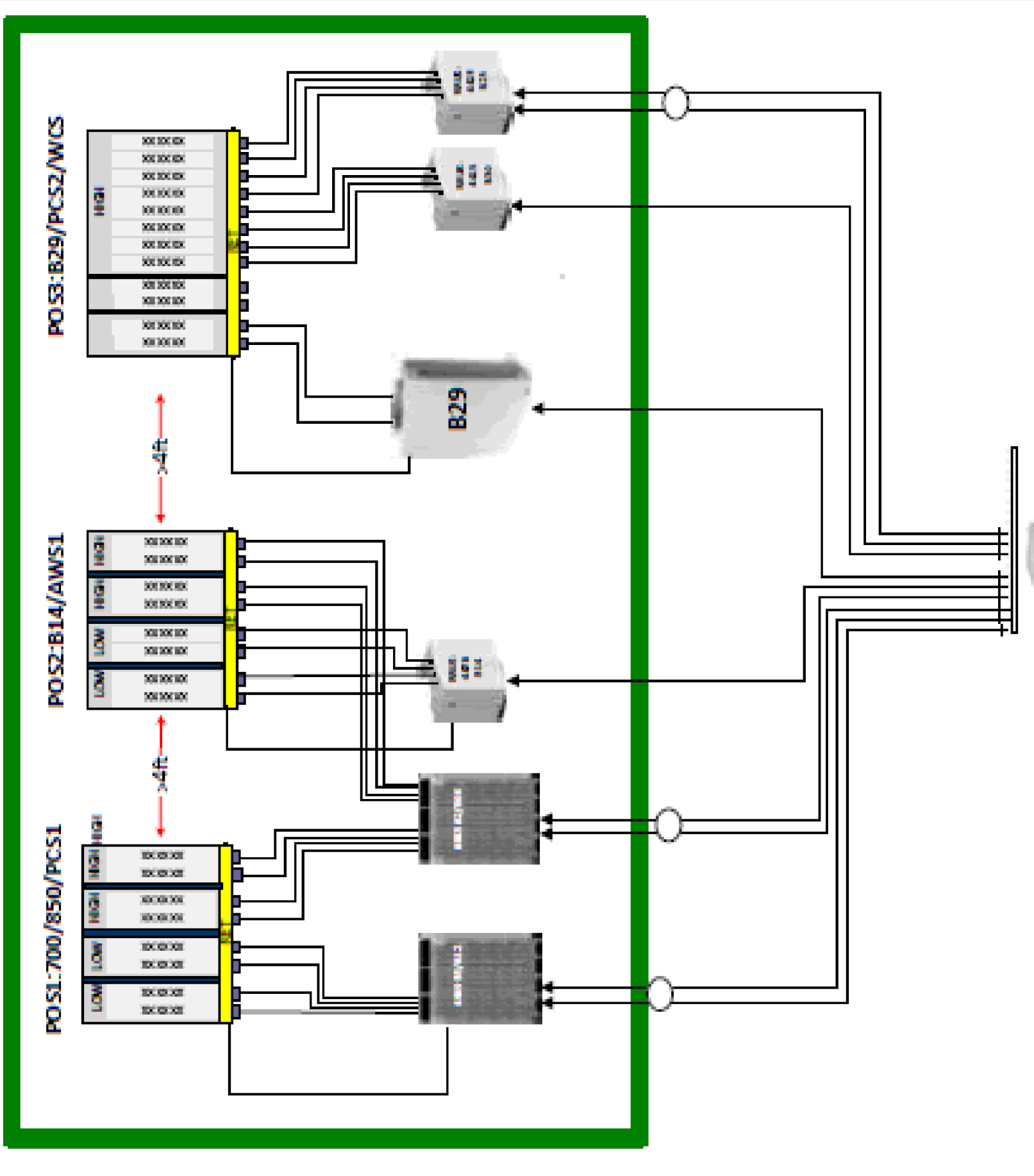
2 PROPOSED NORTHEAST ELEVATION

REV	DATE	DESCRIPTION	INT.
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D	7/30/20	E-SHEET REDLINES	JF
C	7/27/20	RFDS 06/18/20	MMS
B	5/20/20	90% ZD - PER SURVEY	JY
A	4/2/20	90% ZD	JY

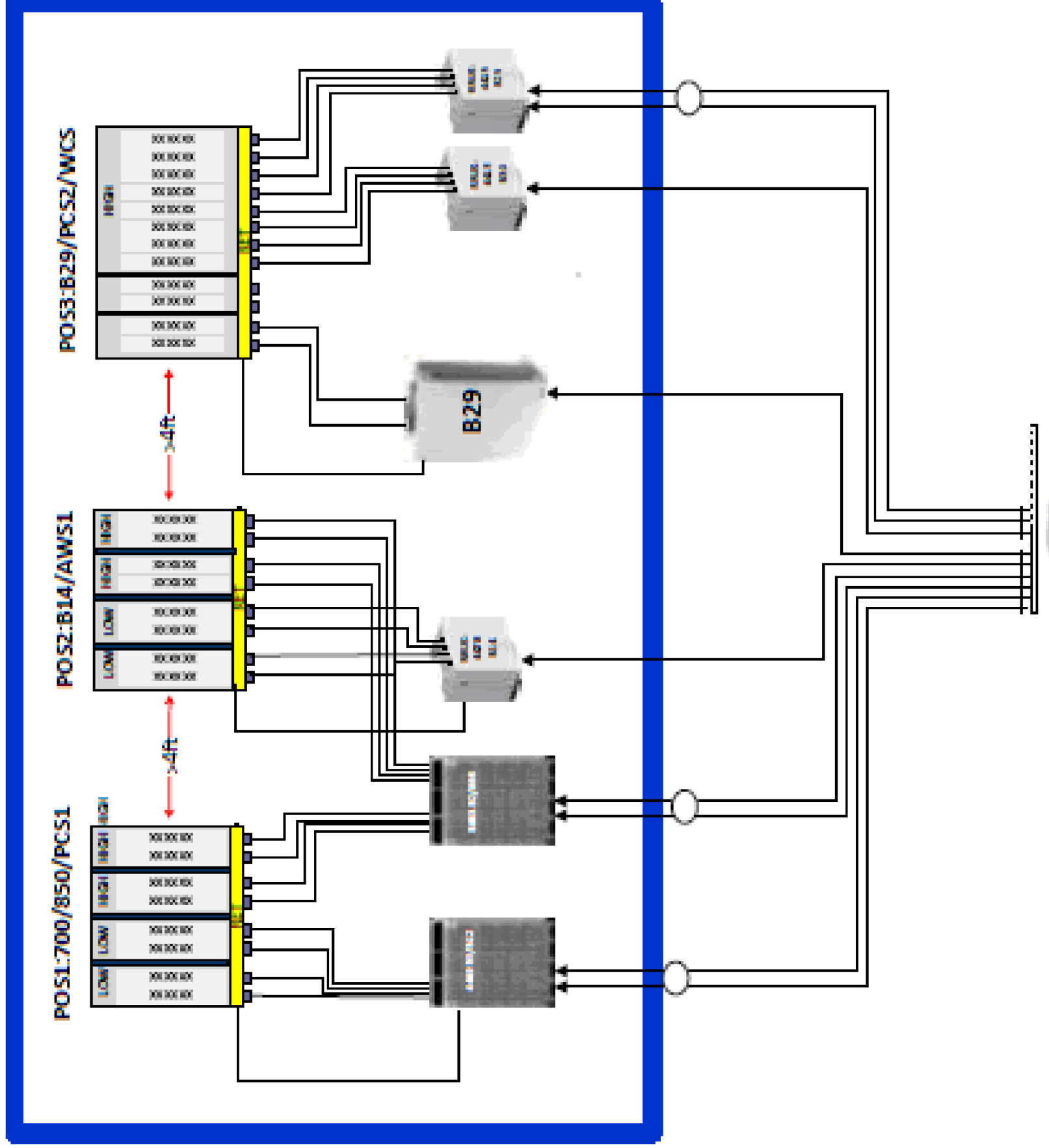
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NOTES TO CONTRACTOR:  
 1. CONTRACTOR IS TO REFER TO AT&T'S MOST CURRENT RADIO FREQUENCY DATA SHEET (RFDS) PRIOR TO CONSTRUCTION.

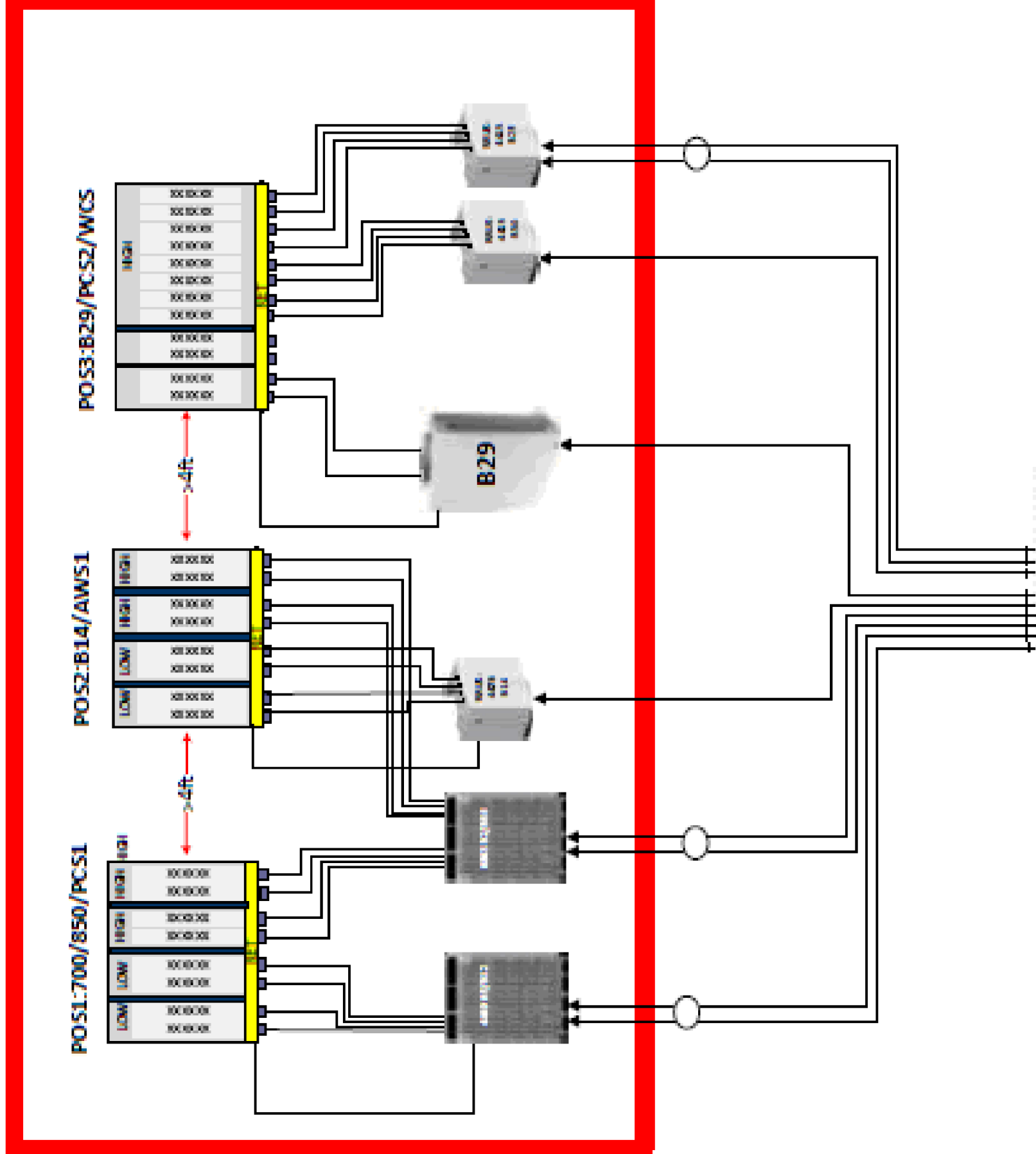
# GAMMA



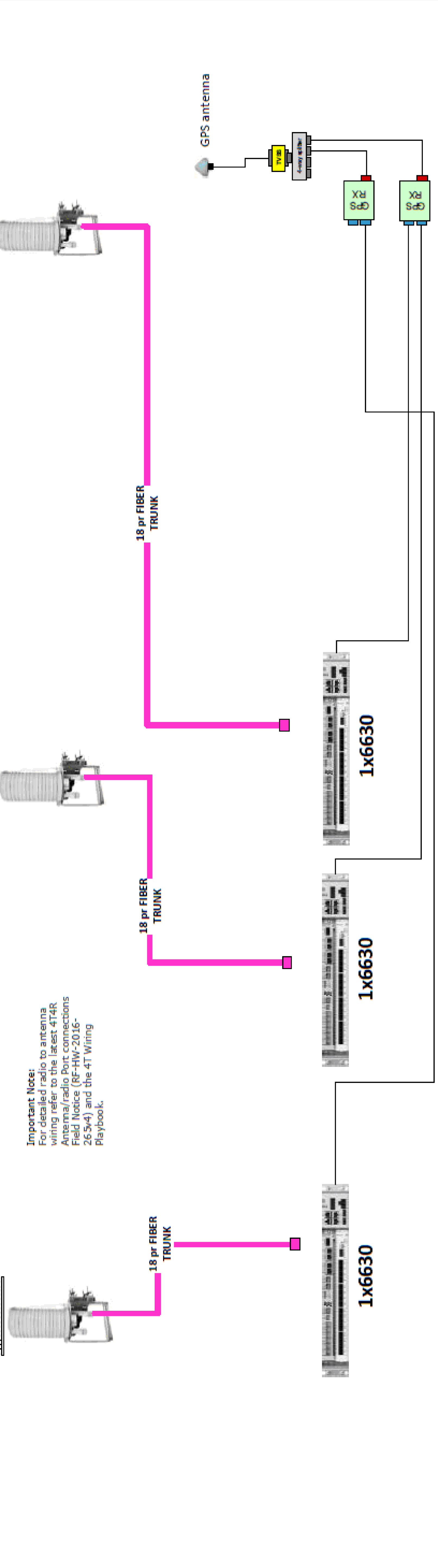
# BETA



# ALPHA



**Important Note:**  
 For detailed radio to antenna wiring refer to the latest 4T4R Antenna/Radio Port connections Field Notice (RF-HW-2016-26 Sv4) and the 4T Wiring Playbook.

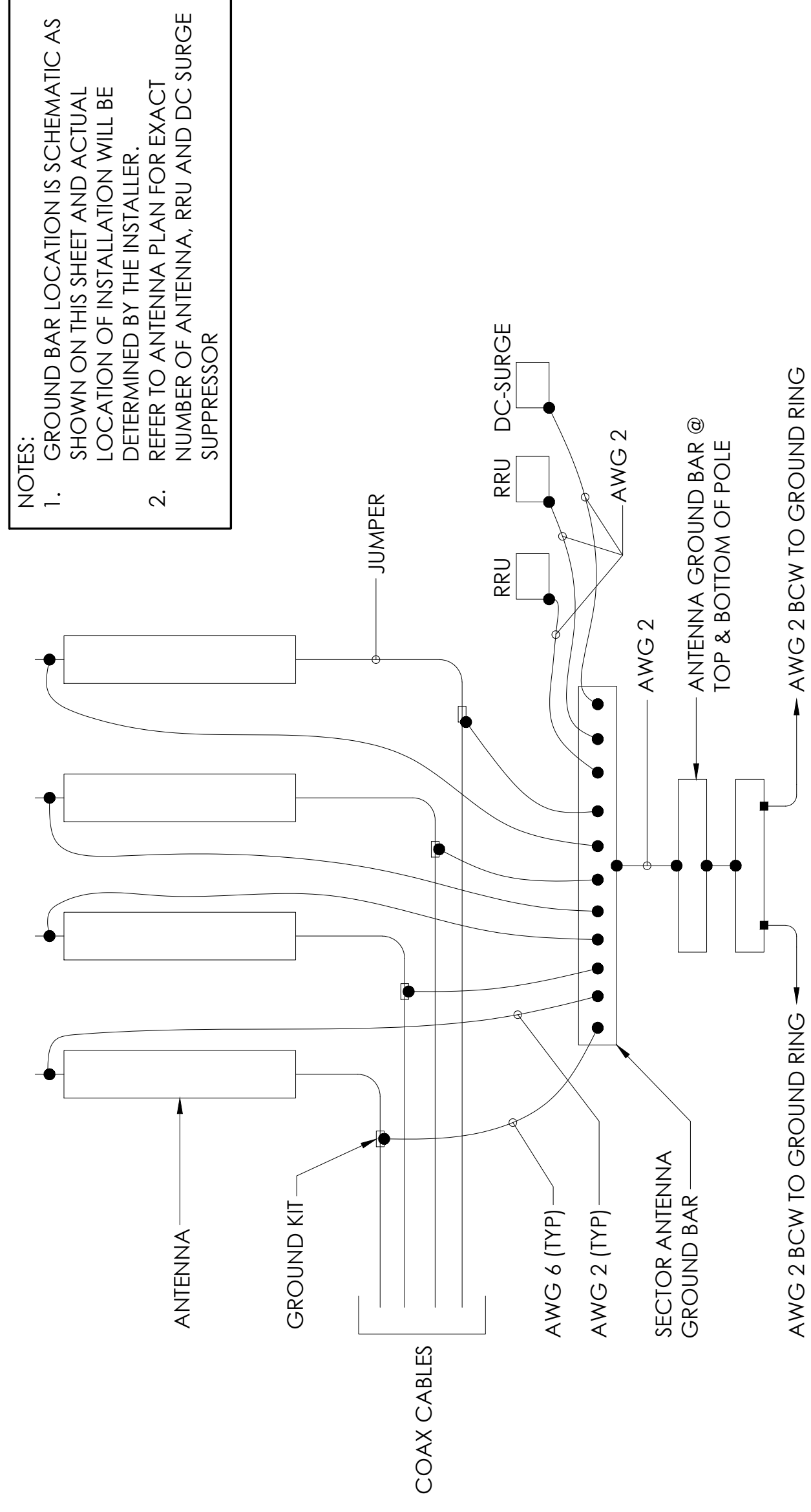




**GROUNDING NOTES:**

- ALL DETAILS ARE SHOWN IN GENERAL TERMS. ACTUAL GROUNDING INSTALLATION REQUIREMENTS AND CONSTRUCTION ACCORDING TO SITE CONDITIONS.
- ALL GROUNDING CONDUCTORS: #2 AWG SOLID BARE TINNED COPPER WIRE UNLESS OTHERWISE NOTED.
- GROUND BAR LOCATED IN BASE OF EQUIPMENT WILL BE PROVIDED, FURNISHED AND INSTALLED BY THE VENDOR.
- ALL BELOW GRADE CONNECTIONS: EXOTHERMIC WELD TYPE, ABOVE GRADE CONNECTIONS: EXOTHERMIC WELD TYPE.
- GROUND RING SHALL BE LOCATED A MINIMUM OF 24" BELOW GRADE OR 6" MINIMUM BELOW THE FROST LINE.
- INSTALL GROUND CONDUCTORS AND GROUND ROD MINIMUM OF 1'-0" FROM EQUIPMENT CONCRETE SLAB, SPREAD FOOTING, OR FENCE.
- EXOTHERMIC WELD GROUND CONNECTION TO FENCE POST: TREAT WITH A COLD GALVANIZED SPRAY.
- GROUND BARS:
  - EQUIPMENT GROUND BUS BAR (EGB) LOCATED AT THE BOTTOM OF ANTENNA POLE/MAST FOR MAKING GROUNDING JUMPER CONNECTIONS TO COAX FEEDER CABLES SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. JUMPERS (FURNISHED BY OWNERS) SHALL BE INSTALLED AND CONNECTED BY ELECTRICAL CONTRACTOR.
- ALL GROUNDING INSTALLATIONS AND CONNECTIONS SHALL BE MADE BY ELECTRICAL CONTRACTOR.
- OBSERVE N.E.C. AND LOCAL UTILITY REQUIREMENTS FOR ELECTRICAL SERVICE GROUNDING.
- GROUNDING ATTACHMENT TO TOWER SHALL BE AS PER MANUFACTURER'S RECOMMENDATIONS OR AT GROUNDING POINTS PROVIDED (2 MINIMUM).
- IF EQUIPMENT IS IN A C.L. FENCE ENCLOSURE, GROUND ONLY CORNER POSTS AND SUPPORT POSTS OF GATE. IF CHAIN LINK LID IS USED, THEN GROUND LID ALSO.
- GROUNDING AT PPC CABINET SHALL BE VERTICALLY INSTALLED.
- ALL GROUNDING FOR ANTENNAS SHALL BE CONNECTED SO THAT IT WILL BY-PASS MAIN BUSS BAR.
- ALL EMT RUNS SHALL BE GROUNDED AND HAVE A BUSHING, NO PVC ABOVE GROUND.
- USE SEPARATE HOLES FOR GROUNDING AT BUSS BAR. NO "DOUBLE-UP" OF LUGS.
- POWER AND TELCO CABINETS SHALL BE GROUNDED (BONDED) TOGETHER.
- NO LBS ALLOWED ON GROUNDING.

**4** GROUNDING NOTES  
N.T.S.



**3** TYP. ANTENNA GROUNDING DIAGRAM  
N.T.S.

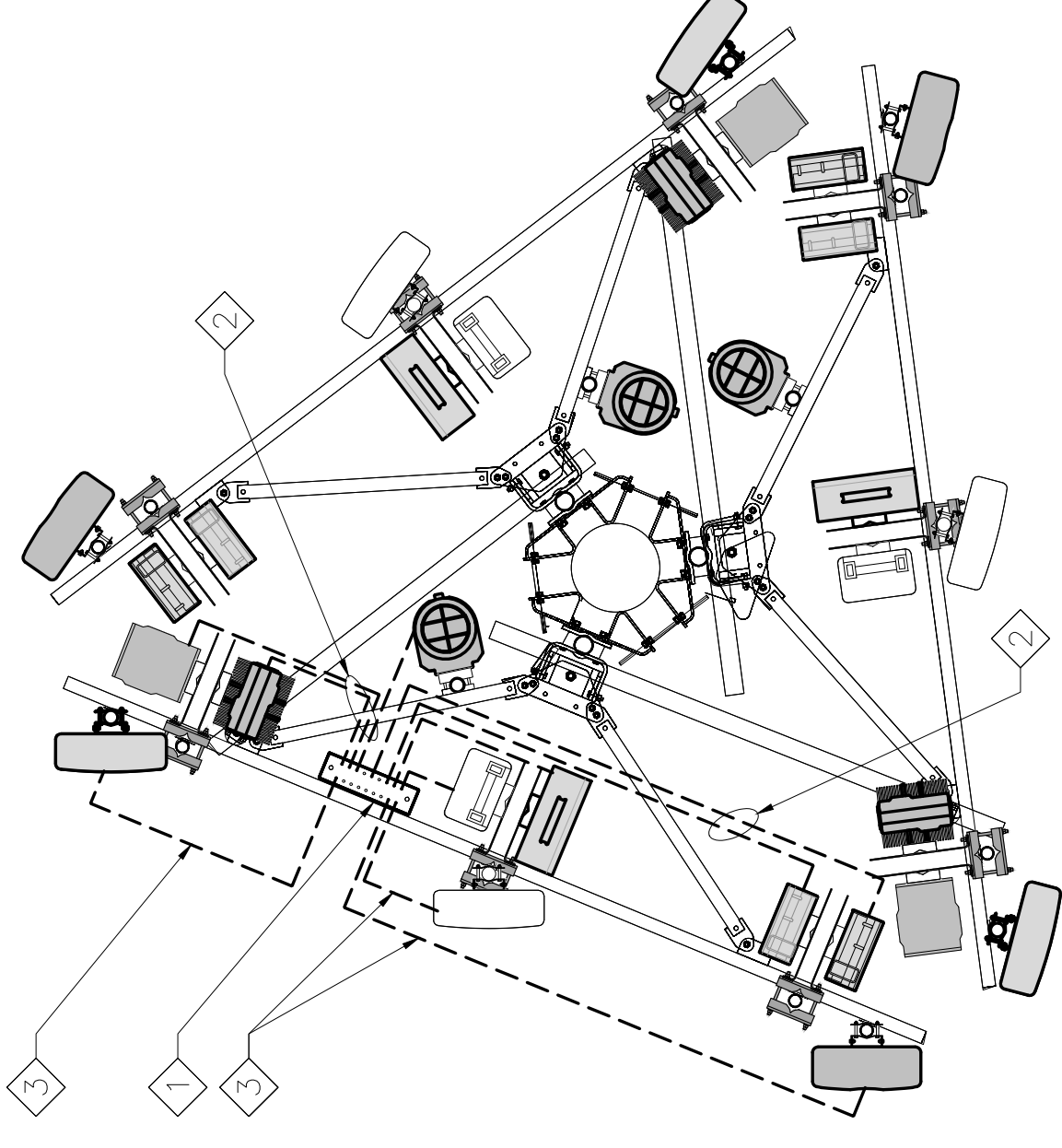
- PROVIDE STAINLESS STEEL CLAMP AND BRASS TAGS ON COAX AT ANTENNAS AND DOGHOUSE.
- ALL ELECTRICAL AND GROUNDING AT THE CELL SITE SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE (NEC), NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 780 (LATEST EDITION), AND MANUFACTURER SPECIFICATION.
- IF THE AC PANEL IN THE POWER CABINET IS WIRED AS SERVICE ENTRANCE, THE AC SERVICE GROUND CONDUCTOR SHALL BE CONNECTED TO GROUND ELECTRODE SYSTEM. WHEN THE AC PANEL IN THE POWER CABINET IS CONSIDERED A SUB-PANEL, THE GROUND WIRE SHALL BE INSTALLED IN THE AC POWER CONDUIT. THE INSTALLATION SHALL BE PER LOCAL AND NATIONAL ELECTRIC CODE (NFPA-70).
- EXOTHERMIC WELDING IS RECOMMENDED FOR GROUNDING CONNECTION WHERE PRACTICAL. OTHERWISE, THE CONNECTION SHALL BE MADE USING COMPRESSION TYPE-2 HOLES, LONG BARREL LUGS OR DOUBLE CRIMP CLAMP "C" CLAMP. THE COPPER CABLES SHALL BE COATED WITH ANTI-OXIDANT (COPPER SHIELD) BEFORE MAKING THE CONNECTIONS. THE MANUFACTURER'S TORQUING RECOMMENDATIONS ON THE BOLT ASSEMBLY TO SECURE CONNECTIONS SHALL BE FOLLOWED.
- THE ANTENNA CABLES SHALL BE GROUNDED AT THE TOP AND BOTTOM OF THE VERTICAL RUN FOR LIGHTING PROTECTION. THE ANTENNA CABLE SHIELD SHALL BE BONDED TO A COPPER GROUND BUSS AT THE LOWER MOST POINT OF A VERTICAL RUN JUST BEFORE IT BEGINS TO BEND TOWARD THE HORIZONTAL PLANE. WIRE RUNS TO GROUND SHALL BE KEPT AS STRAIGHT AND SHORT AS POSSIBLE. ANTENNA CABLE SHIELD SHALL BE GROUNDED JUST BEFORE ENTERING THE CELL CABINET. ANY ANTENNA CABLES OVER 200 FEET IN LENGTH SHALL ALSO BE EQUIPPED WITH ADDITIONAL GROUNDING AT MID-POINT.
- ALL GROUNDING CONDUCTORS INSIDE THE BUILDING SHALL BE RUN IN CONDUIT RACEWAY SYSTEM, AND SHALL BE INSTALLED AS STRAIGHT AS PRACTICAL WITH MINOR BENDS TO AVOID OBSTRUCTIONS. THE BENDING RADIUS OF ANY #2 GROUNDING CONDUCTOR IS 8". PVC RACEWAY MAY BE FLEXIBLE OR RIGID PER THE FIELD CONDITIONS. GROUNDING CONDUCTORS SHALL NOT MAKE CONTACT WITH ANY METALLIC CONDUITS, SURFACES OR EQUIPMENT.
- PROVIDE PVC SLEEVES WHERE GROUNDING CONDUCTORS PASS THROUGH THE BUILDING WALLS AND/OR CEILING.
- INSTALL GROUND BUSHINGS ON ALL METALLIC CONDUITS AND BOND TO THE EQUIPMENT GROUND BUSS IN THE PANEL BOARD.
- GROUND ANTENNA BASES, FRAMES, CABLE RACKS AND OTHER METALLIC COMPONENTS WITH #2 GROUNDING CONDUCTORS AND CONNECT TO INSULATED SURFACE MOUNTED GROUND BARS. CONNECTION DETAILS SHALL FOLLOW MANUFACTURER'S SPECIFICATIONS FOR GROUNDING.
- ALL PROPOSED GROUNDING CONDUCTORS SHALL BE ROUTED AND CONNECTED TO THE MAIN GROUND BAR OR EXISTING GROUND RING.

**KEY NOTES:**

- (E) ANTENNA GROUND BAR TO BE VERIFIED @ FIELD
- AWG 2 INSULATED COPPER GROUND WIRE FROM (N) RRU'S AND (N) DC6 TO (E) ANTENNA GROUND BAR
- AWG 6 INSULATED COPPER GROUND WIRE FROM GROUND KIT TO (E) ANTENNA GROUND BAR

NOTES:

- REFER TO TYP. ANTENNA GROUNDING DIAGRAM
- (E) GROUND WIRES ARE NOT SHOWN FOR CLARITY



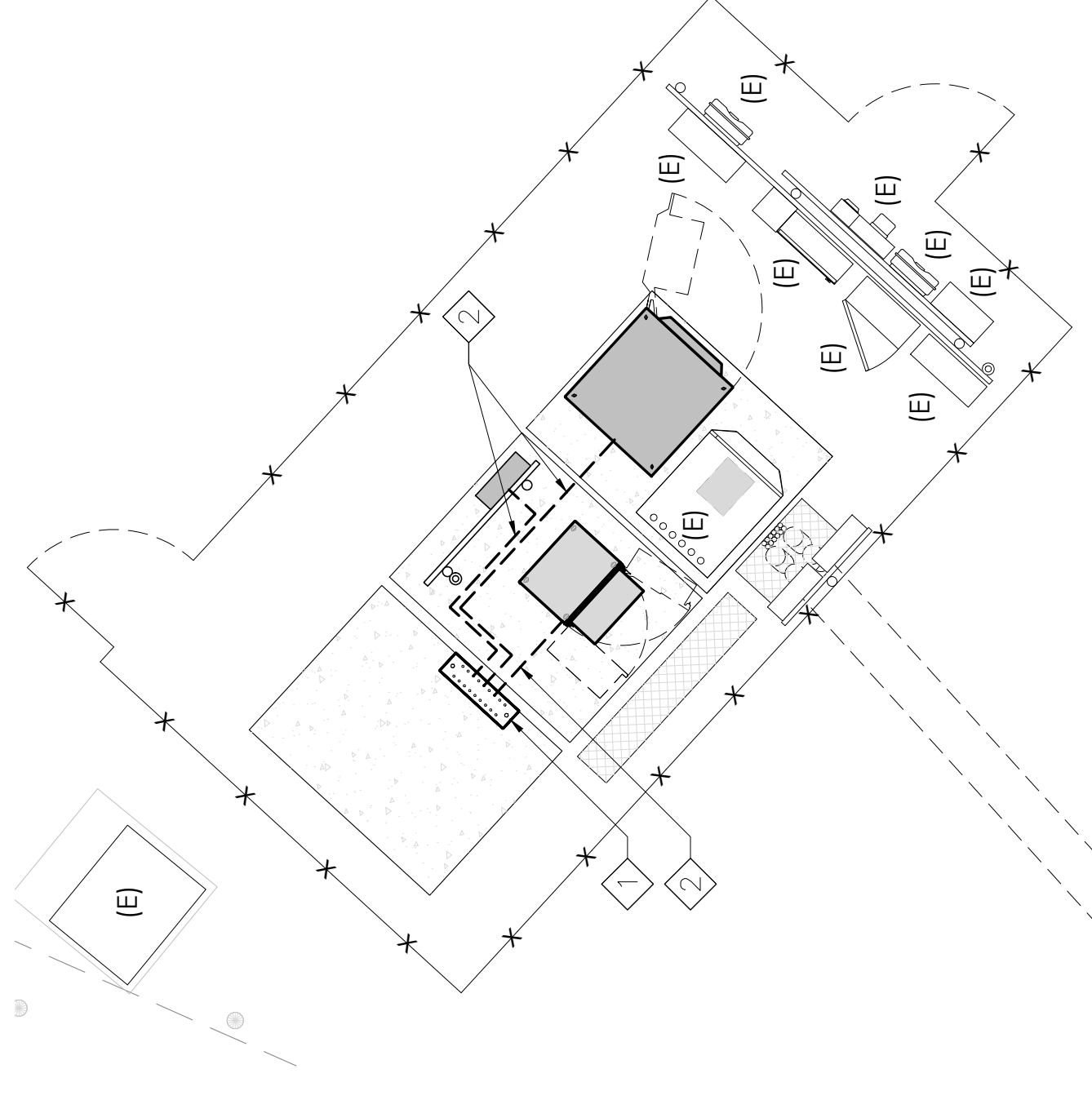
**2** ANTENNA GROUNDING PLAN  
N.T.S.

**KEY NOTES:**

- (E) EQUIPMENT GROUND BAR TO BE VERIFIED @ FIELD
- AWG 2 INSULATED COPPER GROUND WIRE FROM (N) EQUIPMENT

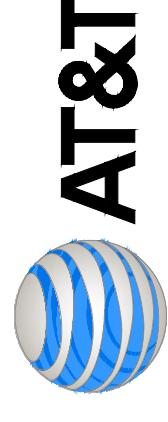
NOTES:

- (E) GROUND WIRES ARE NOT SHOWN FOR CLARITY



**1** EQUIPMENT GROUNDING PLAN  
N.T.S.

PREPARED FOR



5001 EXECUTIVE PKWY,  
SAN RAMON, CA 94583

Vendor:



2030 MAIN STREET, SUITE 200  
IRVINE, CA 92614

P-044153

AT&T Site ID:

**CVL06282**

REV	DATE	DESCRIPTION	INT.
E	8/21/20	REMOVED UMS 807	MM3
D	7/30/20	E-SHEET REQUIRES	JF
C	7/27/20	RFS 06/18/20	MM3
B	5/20/20	90% 2D - PER SURVEY	JY
A	4/2/20	90% 2D	JY

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issued For:

**CVL06282**

LEMON VALLEY

530 E. PATRICIAN DRIVE  
RENO, NV 89506


Sheet Title:

**GROUNDING  
PLANS & NOTES**

Sheet Number:


**G-1**

PREPARED FOR



5001 EXECUTIVE PKWY,  
SAN RAMON, CA 94583

Vendor:



2030 MAIN STREET, SUITE 200  
IRVINE, CA 92614  
P-044153

AT&T Site ID:

# CVL06282

REV	DATE	DESCRIPTION	INT.
E	8/21/20	REMOVED UMS 800 MM3	
D	7/30/20	E-SHEET REVISIONS JF	
C	7/27/20	RFS 06/19/20 MM3	
B	5/20/20	90% ZD - PER SURVEY	JY
A	4/2/20	90% ZD	JY

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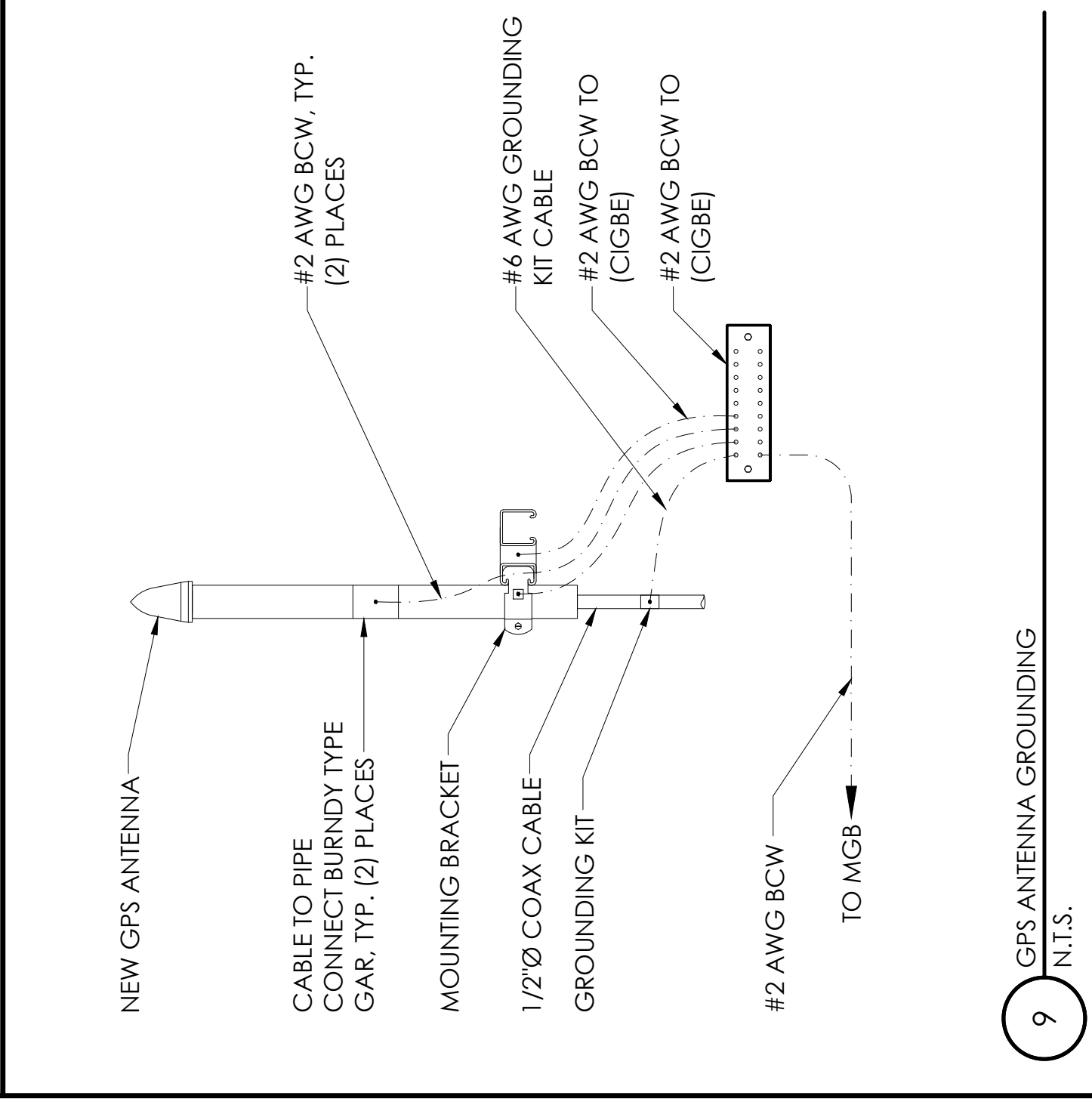
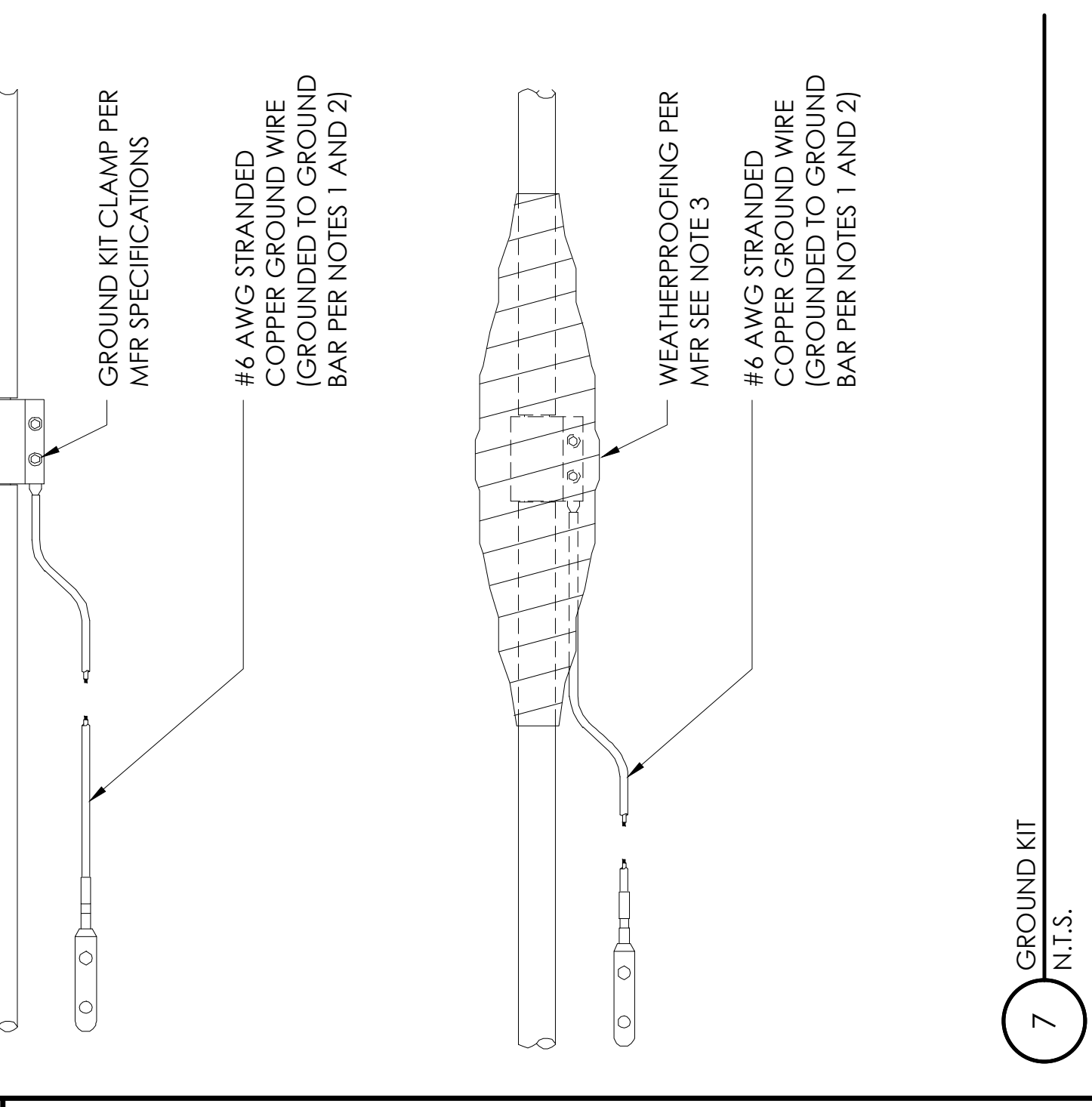
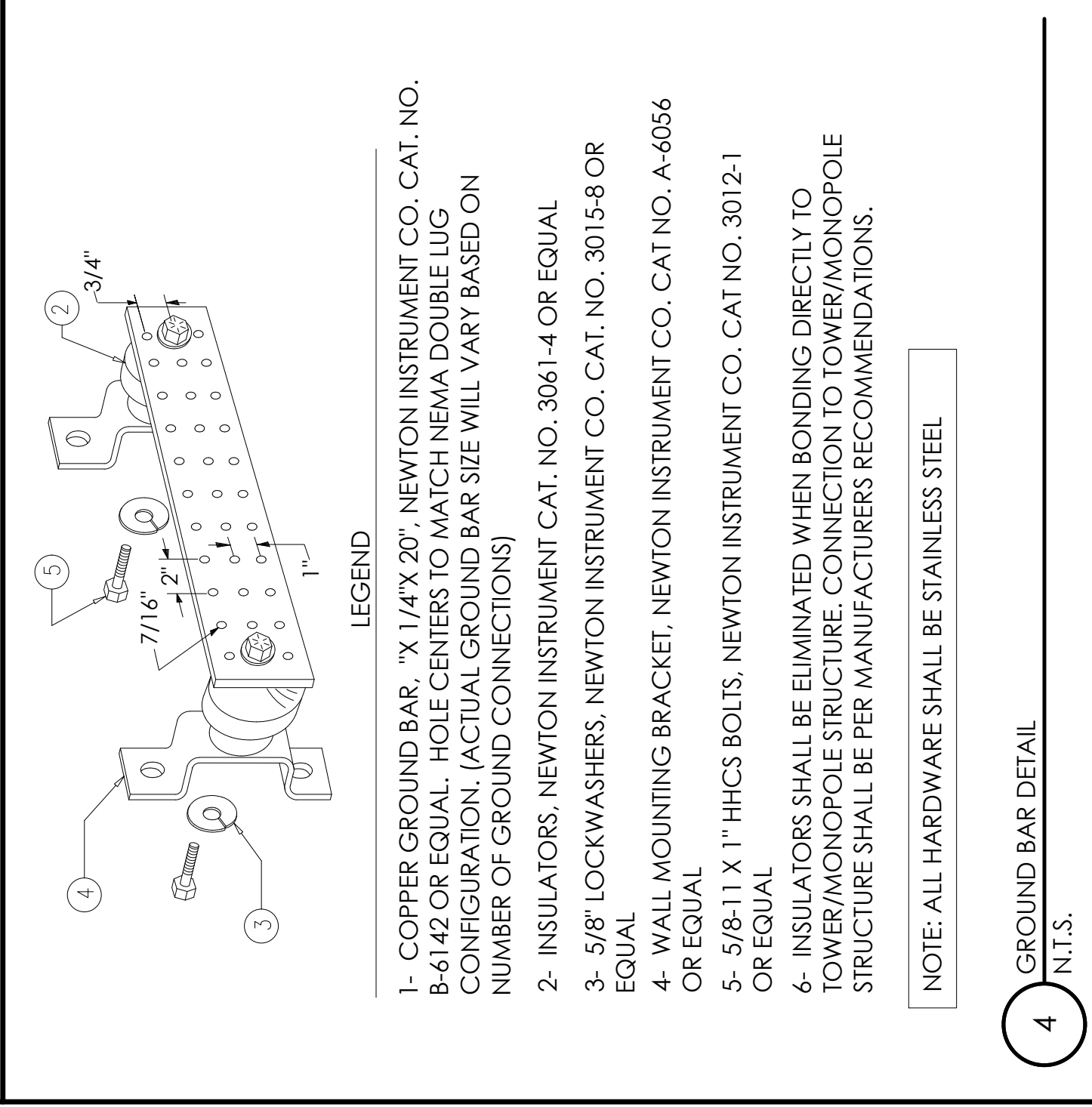
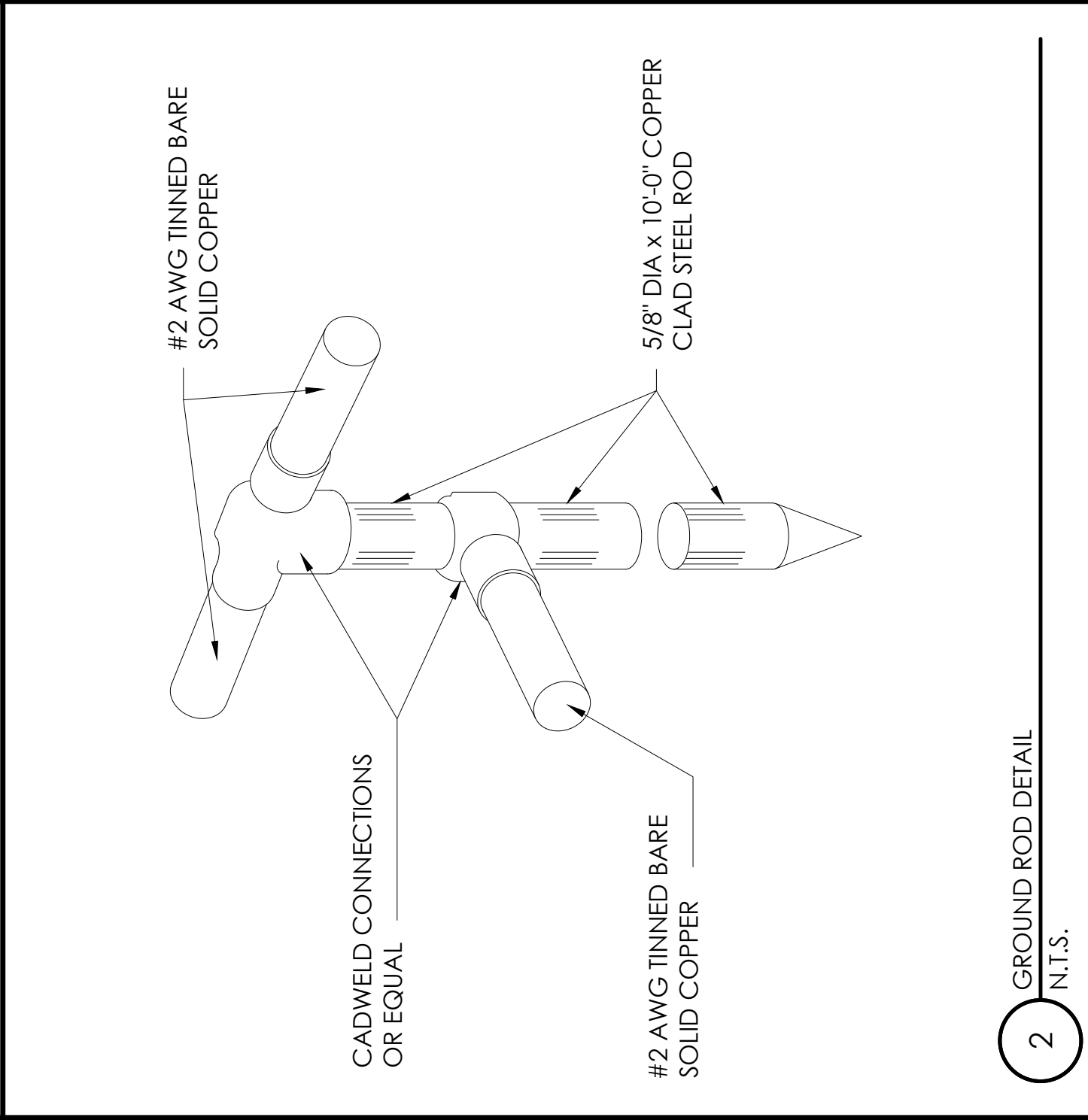
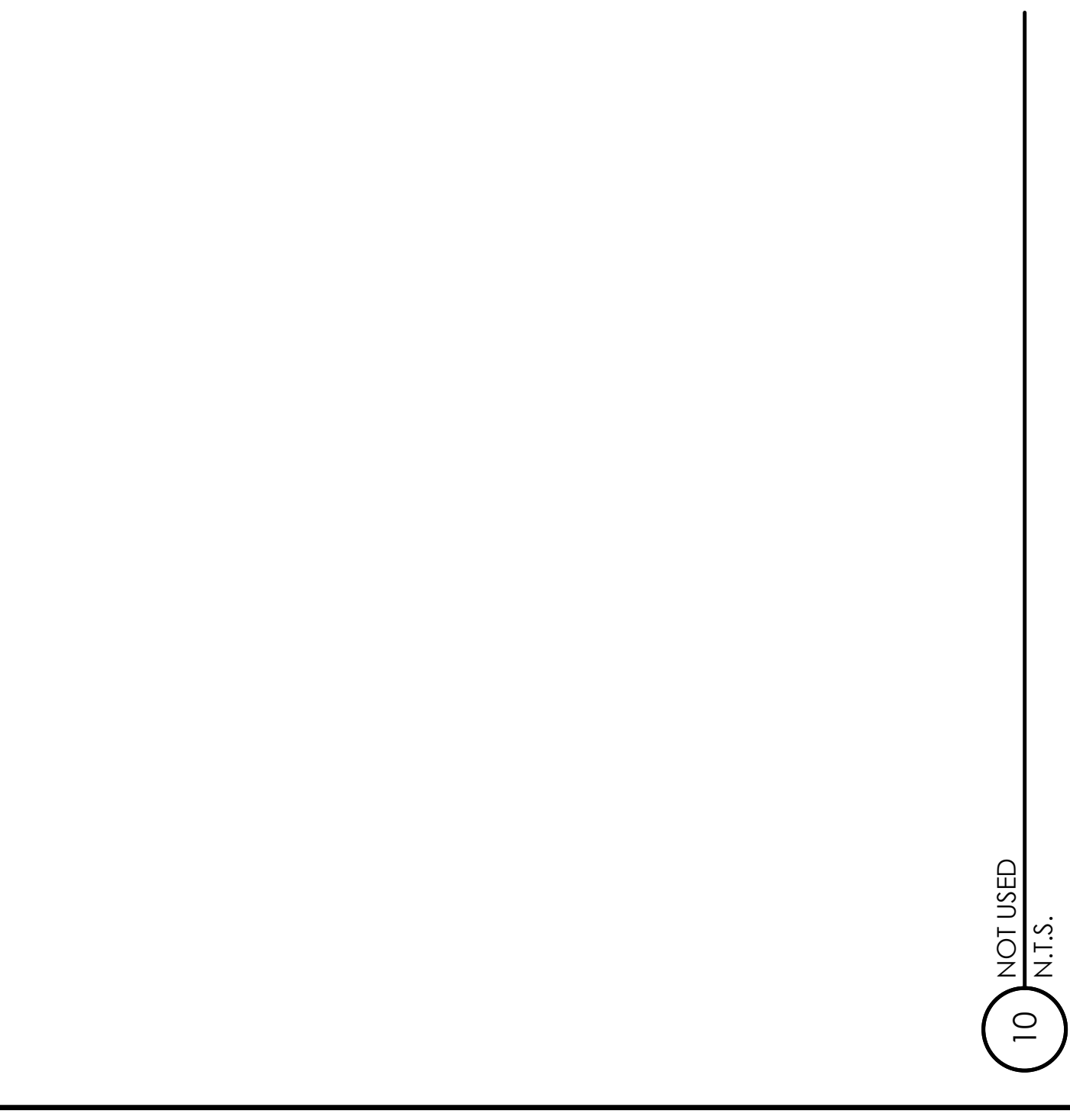
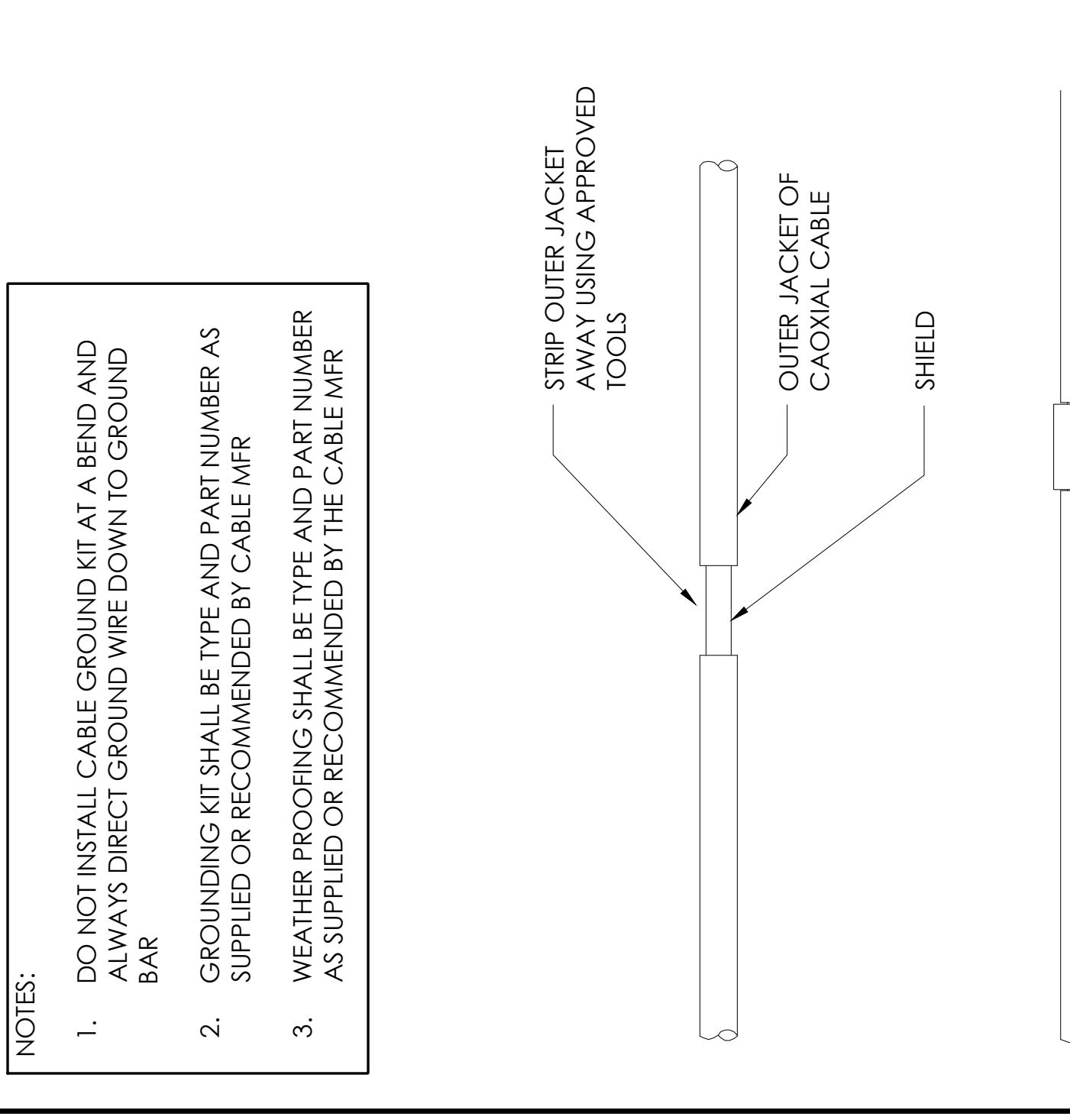
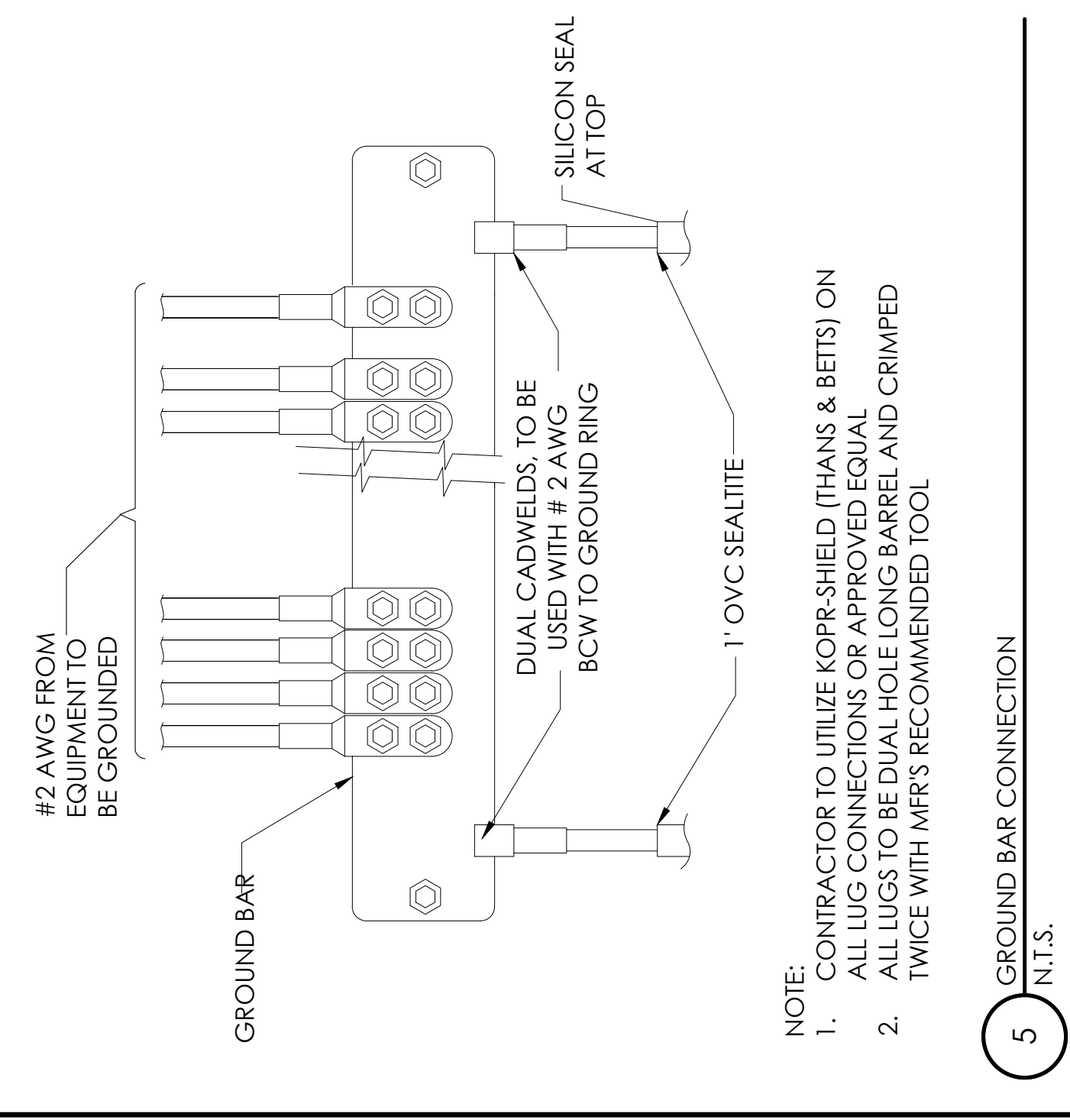
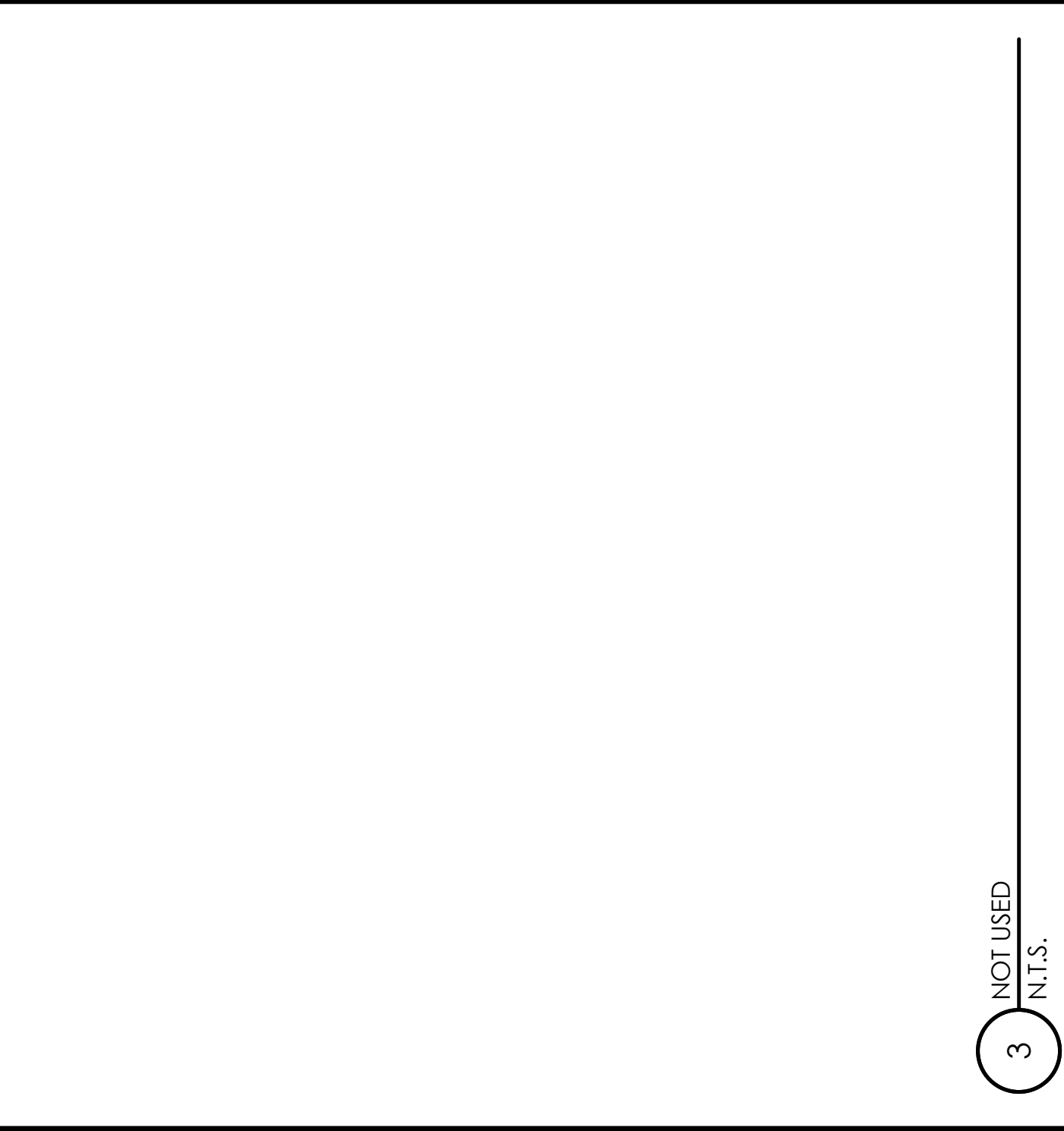
issued For:

# CVL06282

LEMON VALLEY  
530 E. PATRICIAN DRIVE  
RENO, NV 89506

Sheet Title:  
**GROUNDING DETAILS**

Sheet Number:  
**G-2**



PREPARED FOR



5001 EXECUTIVE PKWY,  
SAN RAMON, CA 94583

Vendor:



2030 MAIN STREET, SUITE 200  
IRVINE, CA 92614  
P-044153

AT&T Site ID:

**CVL06282**

E	8/21/20	REMOVED UMIS 807	MM3
D	7/30/20	E-SHEET REDESIGNS	JF
C	7/27/20	RFS 04/18/20	MM3
B	5/20/20	90% ZD - PER SURVEY	JY
A	4/2/20	90% ZD	JY
REV	DATE	DESCRIPTION	INT.

licensee:

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Issued For:

**CVL06282**

LEMON VALLEY  
530 E. PATRICIAN DRIVE  
RENO, NV 89506

Sheet Title:  
**SINGLE LINE  
DIAGRAM & AC  
PANEL SCHEDULE**

Sheet Number:

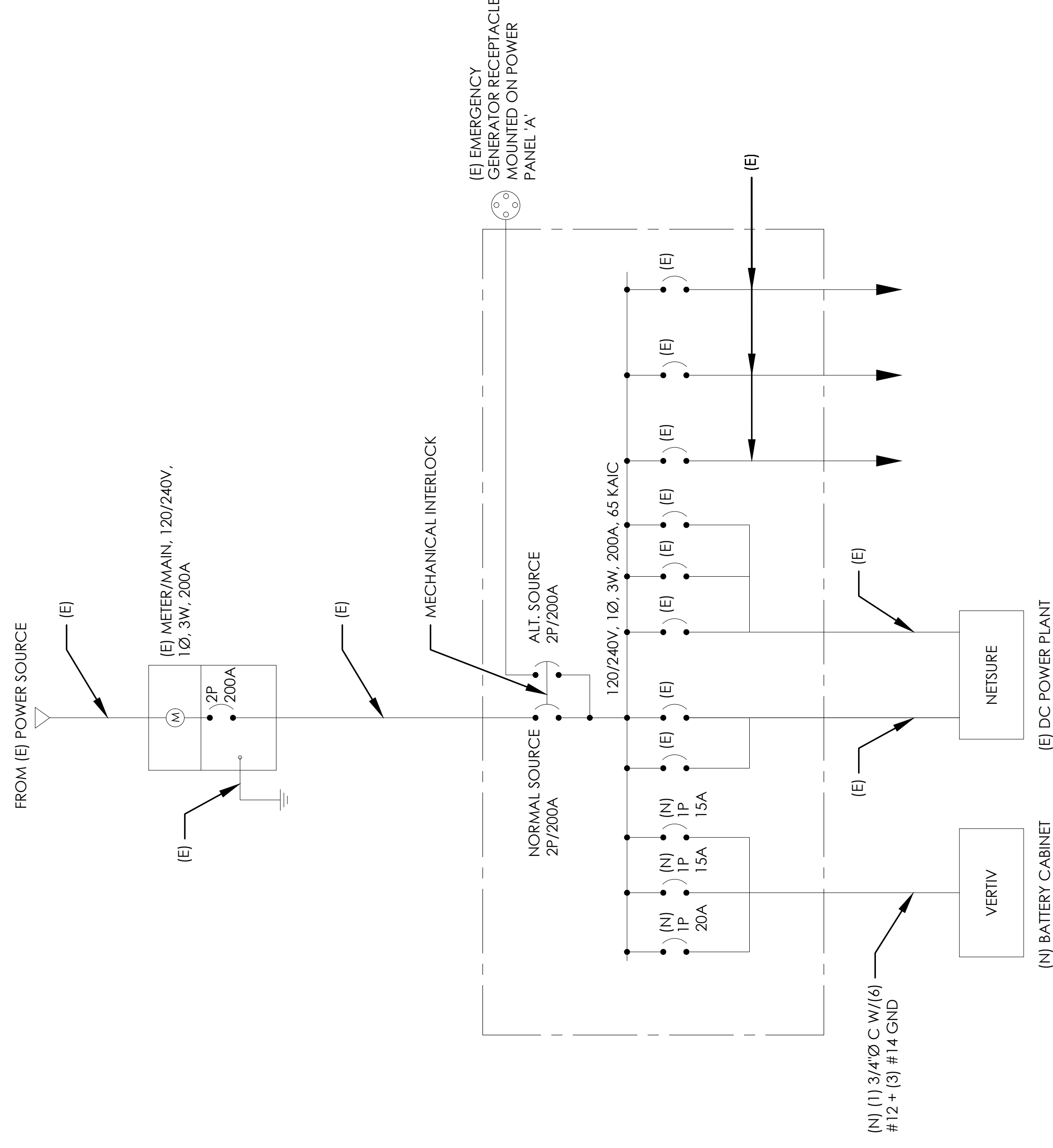
**E-1**

VOLTAGE: 120/240V, 1-PHASE, 3W, 200A, 42 KAIC MAIN CB: 2P/200A				MOUNTING: SURFACE NEMA: 1					
				LOCATION: @ LEASE AREA					
VOLT AMPS PHASE		DESCRIPTION		POLE		BK R		CT	
A	B	A	B	1	2	3	4	5	6
0		SPACE		1	2	3	4	5	6
180		EMERSON GFI		1	2	3	4	5	6
2112		EMERSON		2	3	5	6	7	8
2112		RECTIFIERS 1 & 2		-	-	7	8	9	10
2112		EMERSON		2	3	9	10	11	12
2112		RECTIFIERS 3 & 4		-	-	11	12	13	14
2112		EMERSON		2	3	13	14	15	16
2112		RECTIFIERS 5 & 6		-	-	15	16	17	18
2112		EMERSON		2	3	17	18	19	20
2112		RECTIFIERS 7 & 8		-	-	19	20	21	22
0		OFF - EMERSON		2	3	21	22	23	24
0		RECTIFIERS 9 & 10		-	-	23	24		
8448	8628								
PHASE A = 13248 VA				PHASE B = 13788 VA					
CONNECTED LOAD:				27036 VA					
CONNECTED AMPS:				113 A					

2 EXISTING AC PANEL SCHEDULE

VOLTAGE: 120/240V, 1-PHASE, 3W, 200A, 42 KAIC MAIN CB: 2P/200A				MOUNTING: SURFACE NEMA: 1					
				LOCATION: @ LEASE AREA					
VOLT AMPS PHASE		DESCRIPTION		POLE		BK R		CT	
A	B	A	B	1	2	3	4	5	6
360		BATTERY HEATER #1		1	15	1	15	1	15
180		EMERSON GFI		1	2	3	4	5	6
2112		EMERSON		2	3	5	6	7	8
2112		RECTIFIERS 1 & 2		-	-	7	8	9	10
2112		EMERSON		2	3	9	10	11	12
2112		RECTIFIERS 3 & 4		-	-	11	12	13	14
2112		EMERSON		2	3	13	14	15	16
2112		RECTIFIERS 5 & 6		-	-	15	16	17	18
2112		EMERSON		2	3	17	18	19	20
2112		RECTIFIERS 7 & 8		-	-	19	20	21	22
2112		EMERSON		2	3	21	22	23	24
2112		RECTIFIERS 9 & 10		-	-	23	24		
10920	10740								
PHASE A = 11280 VA				PHASE B = 11280 VA					
CONNECTED LOAD:				22560 VA					
CONNECTED AMPS:				94 A					

3 PROPOSED AC PANEL SCHEDULE



1 AC SINGLE LINE DIAGRAM