

# at&t Mobility

**SITE NUMBER: WA 6413**  
**SITE NAME: ORBIT**

SEE CONSTRUCTION SET FOR CITY STMP SET

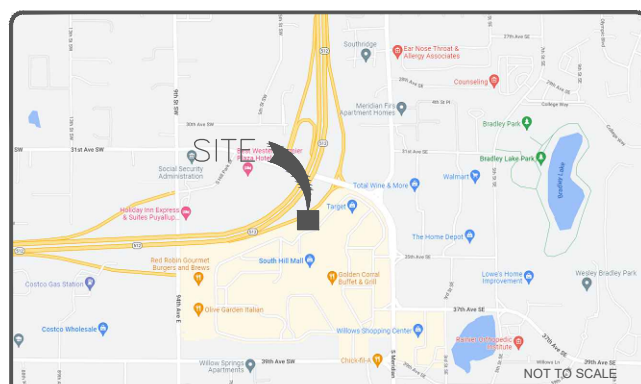
**ADDRESS:** 3310 S MERIDIAN  
PUYALLUP, WA 98373  
**SITE TYPE:** STEALTH MONOPOLE  
**FA#:** 10038029  
**PACE#:** MRWOR048613/ MRWOR048616/  
MRWOR048618  
**PROJECT:** LTE 5C/4TX4RX (RETRO)

|       |            |              |             |
|-------|------------|--------------|-------------|
| PTN#1 | 3801A11XCS | PACE JOB # 1 | MRWOR060367 |
| PTN#2 |            | PACE JOB # 2 | MRWOR060301 |
| PTN#3 | 3801A11X2N | PACE JOB # 3 | MRWOR060363 |
| PTN#4 |            | PACE JOB # 4 | MRWOR060311 |
| PTN#5 | 3801A11Y45 | PACE JOB # 5 | MRWOR060361 |
| PTN#6 |            | PACE JOB # 6 |             |

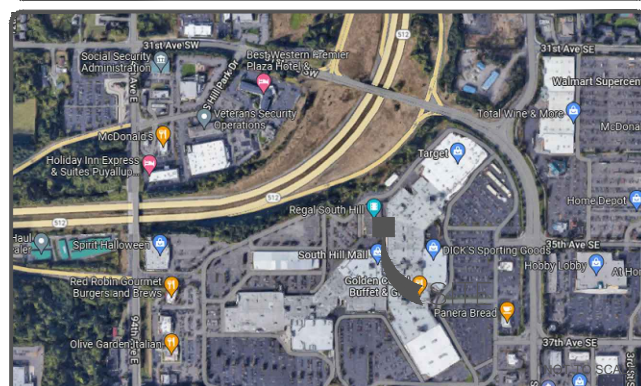
PTN / PACE 50B#

### DO NOT SCALE DRAWINGS

CONTRACTOR SHALL VERIFY ALL PLANS & EXISTING LOCATIONS, CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME



VICINITY MAP



MAP

SECTION 04 TOWNSHIP 19 RANGE 04 QUARTER 44 SOUTH HILL MALL PHASE 1 BSP: SOUTH HILL MALL PHASE 1 BSP NE & SE OF SE 4-19-04E PARCEL "B" OF DBLR 94-07-25-0271 DESC AS L 5 EXC POR CYD TO CY OF PUYALLUP PER ETN 854245 ALSO EXC THAT POR DESC AS FOLL BEG AT SW COR OF SD L 5 TH S 89 DEG 22 MIN 01 SEC E ALG S LI SD L 5 161.70 FT TH N 00 DEG 07 MIN 07 SEC E 586.09 FT TH N 89 DEG 52 MIN 53 SEC W 72 FT TH N 00 DEG 07 MIN 07 SEC E 39 FT TH N 89 DEG 52 MIN 53 SEC W 90.32 FT TO W LI SD L 5 TH S ALG SD W LI 623.64 FT TO POB EASE OF RECORD APPROX 1,432,934 SW FT (32.89 ACS) OUT OF 005-0 SEG G-0321 JU 9/20/94JU

LEGAL DESCRIPTION

### PROJECT INFORMATION:

**PROPERTY OWNER:**  
AMERICAN TOWER COMPANY  
10 PRESIDENTIAL WAY  
WOBURN, MA 01801

**TAX LOT #:** 6021010051

**LATITUDE:** 47° 9' 35.06004" N

**LONGITUDE:** 122° 17' 47.76" W

**JURISDICTION:** CITY OF PUYALLUP

**ZONING DISTRICT:** CG GENERAL COMMERCIAL

**OCCUPANCY:** U

**CONSTRUCTION TYPE:** II-B

**EXISTING USE:** UNMANNED TELECOMMUNICATIONS FACILITY

**PROPOSED USE:** UNMANNED TELECOMMUNICATIONS FACILITY

### PROJECT SUMMARY

**CONSULTING ENGINEER:**  
SALAGA DESIGN  
16212 BOTHELL-EVERETT HWY  
SUITE F304,  
MILL CREEK WA 98012  
VLAD DIAONU  
(216) 375-2310

**SITE ACQ. PROJECT MANAGER:**  
MASTEC NETWORK SOLUTIONS  
22263 68th AVE S.  
KENT, WA 98032  
DOUGLAS KONRATH  
(314)406-3047

**CONSTRUCTION MANAGER:**  
MASTEC NETWORK SOLUTIONS  
22263 68th AVE S.  
KENT, WA 98032  
MIKE SUTHERBY  
(253)579-3503

**STRUCTURAL ENGINEERING:**  
MASTEC NETWORK SOLUTIONS  
507, AIRPORT BLVD., SUITE 111  
MORRISVILLE, NE 27560  
RAPHAEL MOHAMAD  
(919)674-5895

PROJECT TEAM

- REMOVE EXISTING TE21 PDU
- REMOVE EXISTING BATTERY CABINET
- INSTALL 44"Ø x 10' FRP TOWER EXTENSION
- INSTALL (3) 5G CBAND AEQK ANTENNAS WITH INTEGRATED RRH
- INSTALL (3) 5G CBAND AEQU ANTENNAS WITH INTEGRATED RRH
- INSTALL (1) DC9 SURGE PROTECTOR
- INSTALL (1) DC12 SURGE PROTECTOR
- INSTALL (1) EMERSON 512 PDU WITH (11) RECTIFIERS AND (2) CONVERTERS
- INSTALL (1) EMERSON 512 BATTERY CABINET
- INSTALL (1) ASIL CARD
- INSTALL (3) ABIO CARDS

### SCOPE OF WORK

| SHEET | DESCRIPTION                    |
|-------|--------------------------------|
| T-1   | TITLE SHEET                    |
| T-2   | NOTES & LEGEND                 |
| A-1   | SITE PLAN                      |
| A-2   | ENLARGED SITE PLAN             |
| A-3   | EXISTING EQUIPMENT LAYOUT      |
| A-3.1 | PROPOSED EQUIPMENT LAYOUT      |
| A-4   | NORTHEAST ELEVATION            |
| A-5   | EXISTING ANTENNA CONFIGURATION |
| A-6   | PROPOSED ANTENNA CONFIGURATION |
| A-7   | DETAILS                        |
| G-1   | GROUNDING PLANS                |
| G-2   | GROUNDING DETAILS              |
| RF-1  | RF-DETAILS "A" SECTORS         |
| RF-2  | RF-DETAILS "B" SECTOR          |
| RF-3  | RF-DETAILS "C" SECTOR          |

### SHEET INDEX

DEPART FROM: SEATTLE-TACOMA INTERNATIONAL AIRPORT:

KEEP RIGHT AT THE FORK AND MERGE ONTO WA-518 E. CONTINUE ONTO I-405 N. TAKE EXIT 2 TO MERGE ONTO WA-167 S TOWARD AUBURN. TAKE THE EXIT ONTO WA-512 W TOWARD WA-161 S/PUYALLUP/OLYMPIA. TAKE THE EXIT TOWARD MERIDIAN STREET S. TURN LEFT ONTO S MERIDIAN.

ARRIVE AT 3310 S MERIDIAN PUYALLUP, WA 98373

### DRIVING DIRECTIONS



DIG ALERT



Know what's below.  
CALL before you dig.

CALL AT LEAST TWO WORKING  
DAYS BEFORE YOU DIG



AT&T MOBILITY  
RTC BUILDING 3  
18221NE 72ND WAY  
REDMOND, WA.98052

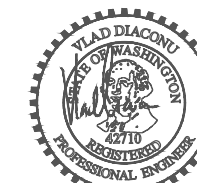


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| 0   | 11/03/2022 | 100% CD     | GG |
| B   | 10/17/2022 | REV. 90% CD | GG |
| A   | 08/29/2022 | 90% CD      | GG |



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**WA 6413  
ORBIT**

3310 S MERIDIAN  
PUYALLUP, WA 98373

**TITLE  
SHEET**

**T-1**

NOTE: THE ORIGINAL SIZE OF THIS PLAN IS 24" X 36". SCALE RATIO IS NOT VALID FOR REDUCED OR ENLARGED SHEET SIZES

GENERAL NOTES

- 1. THIS FACILITY IS EXEMPT FROM HANDICAP REQUIREMENTS PER 2015 INTERNATIONAL BUILDING CODE SECTION 1103.2.9. THIS FACILITY IS NON-OCCUPIABLE SPACE AND ENTERED ONLY BY SERVICE PERSONNEL. THIS SPACE IS NOT FOR HUMAN OCCUPANCY.
2. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO SUBMITTING HIS BID. ANY DISCREPANCIES, CONFLICTS OR OMISSIONS SHALL BE REPORTED TO THE ENGINEER PRIOR TO SUBMITTING BIDS, AND PROCEEDING WITH ANY WORK.
3. THE CONTRACTOR SHALL NOTIFY ENGINEER OF ANY ERRORS, OMISSIONS, OR DISCREPANCIES AS THEY MAY BE DISCOVERED IN THE PLANS, SPECIFICATIONS, & NOTES PRIOR TO STARTING CONSTRUCTION. INCLUDING BUT NOT LIMITED BY DEMOLITION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING ANY ERRORS, OMISSION, OR INCONSISTENCY AFTER THE START OF CONSTRUCTION WHICH HAS NOT BEEN BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER AND SHALL INCUR ANY EXPENSES TO RECTIFY THE SITUATION. THE METHOD OF CORRECTION SHALL BE APPROVED BY THE ARCHITECT OR THE ENGINEER RESPONSIBLE OF THE PROJECT.
4. PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR HAS THE RESPONSIBILITY TO LOCATE ALL EXISTING UTILITIES, WHETHER OR NOT SHOWN ON THE PLANS, AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR OR SUBCONTRACTOR SHALL BEAR THE EXPENSE OF REPAIRING OR REPLACING ANY DAMAGE TO THE UTILITIES CAUSED DURING THE EXECUTION OF THE WORK. CONTACT USA DIG ALERT @ 800-227-2600
5. PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL PROTECT ALL AREAS FROM DAMAGE WHICH MAY OCCUR DURING CONSTRUCTION. ANY DAMAGE TO PROPOSED OR EXISTING SURFACES, STRUCTURES OR EQUIPMENT SHALL BE IMMEDIATELY REPAIRED OR REPLACED TO THE SATISFACTION OF THE PROPERTY OWNER. THE CONTRACTOR SHALL BEAR THE EXPENSE OF REPAIRING OR REPLACING ANY DAMAGED AREAS.
6. A COPY OF THE APPROVED PLANS SHALL BE KEPT IN A PLACE SPECIFIED BY THE GOVERNING AGENCY, AND BY LAW SHALL BE AVAILABLE FOR INSPECTION AT ALL TIMES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE ALL CONSTRUCTION SETS REFLECT THE SAME INFORMATION AS THE APPROVED PLANS. THE CONTRACTOR SHALL ALSO MAINTAIN ONE SET OF PLANS AT THE SITE FOR THE PURPOSE OF DOCUMENTING ALL AS-BUILT CHANGES, REVISIONS, ADDENDA, OR CHANGE ORDERS. THE CONTRACTOR SHALL FORWARD THE AS-BUILT/THIRD DRAWINGS TO THE ARCHITECT OR THE ENGINEER RESPONSIBLE OF THE PROJECT AT THE CONCLUSION OF THE PROJECT.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE SECURITY OF THE SITE WHILE THE WORK IS IN PROGRESS UNTIL THE JOB IS COMPLETE.
8. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE TEMPORARY POWER, WATER, AND TOILET FACILITIES AS REQUIRED BY THE PROPERTY OWNER OR GOVERNING AGENCY.
9. ALL CONSTRUCTION THROUGH THE PROJECT SHALL CONFORM TO THE LATEST I.B.C. AND ALL OTHER GOVERNING CODES, INCLUDING THE THE MOST RESTRICTIVE CODE SHALL GOVERN.
10. THE CONTRACTOR AND SUBCONTRACTOR SHALL COMPLY WITH ALL LOCAL AND STATE REGULATIONS INCLUDING ALL OSHA REQUIREMENTS.
11. WHEN REQUIRED STORAGE OF MATERIALS OCCURS, THEY SHALL BE EVENLY DISTRIBUTED OVER THE FLOOR OR ROOF SO AS NOT TO EXCEED THE DESIGNED LIVE LOADS FOR THE STRUCTURE. TEMPORARY SHORING OR BRACING SHALL BE PROVIDED WHERE THE STRUCTURE OR SOIL HAS NOT ATTAINED THE DESIGN STRENGTH FOR THE CONDITIONS PRESENT.
12. THE CONTRACTOR SHALL SUPERVISE AND COORDINATE ALL WORK, USING HIS PROFESSIONAL KNOWLEDGE AND SKILLS. HE IS SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, PROCEDURES AND SEQUENCING AND COORDINATING ALL PORTIONS OF THE WORK UNDER THE PROJECT.
13. THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN AND PAY FOR ALL PERMITS, LICENSES AND INSPECTIONS WITH RESPECT TO THE WORK TO COMPLETE THE PROJECT. BUILDING PERMIT APPLICATIONS SHALL BE FILED BY THE OWNER OR AUTHORIZED AGENT. CONTRACTOR SHALL OBTAIN THE PERMIT AND MAKE FINAL PAYMENT OF SAID DOCUMENT.
14. ALL DIMENSIONS TAKE PRECEDENCE OVER SCALE. DRAWINGS ARE NOT TO BE SCALED UNDER ANY CIRCUMSTANCES.
15. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BLOCKING, BACKING, FRAMING, HANGERS OR SUPPORTS FOR INSTALLATION OF ITEMS INDICATED ON THE DRAWINGS.
16. THE CONTRACTOR SHALL PROVIDE THE FIRE MARSHALL OR U.L APPROVED MATERIALS TO FILL/SEAL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES.
17. PROPOSED CONSTRUCTION ADDED TO EXISTING CONSTRUCTION SHALL BE MATCHED IN FORM, TEXTURE, MATERIAL AND PAINT COLOR EXCEPT AS NOTED IN THE PLANS.
18. THE CONTRACTOR IS TO PROVIDE PORTABLE FIRE EXTINGUISHERS HAVING A MINIMUM 2A:10-B-C RATING WITHIN 75FT. OF TRAVEL TO ALL PORTIONS OF THE CONSTRUCTION AREA. (2015 INTERNATIONAL BUILDING CODE 906.1.1 AND SECTION 906.3.1)
19. MATERIALS TESTING SHALL BE TO THE LATEST STANDARDS AVAILABLE AS REQUIRED BY THE LOCAL GOVERNING AGENCY RESPONSIBLE FOR APPROVING THE RESULTS.
20. ALL GENERAL NOTES AND STANDARD DETAILS ARE THE MINIMUM REQUIREMENTS TO BE USED IN CONDITIONS WHICH ARE NOT SPECIFICALLY SHOWN OTHERWISE.
21. ALL DEBRIS AND REFUSE IS TO BE REMOVED FROM THE PROJECT. PREMISES SHALL BE LEFT IN A CLEAN BROOM FINISHED CONDITION AT ALL TIMES.
22. BUILDING INSPECTORS AND/OR OTHER BUILDING OFFICIALS ARE TO BE NOTIFIED PRIOR TO ANY GRADING AND CONSTRUCTION EFFORT AS MANDATED BY THE GOVERNING AGENCY.
23. ALL SYMBOLS AND ABBREVIATIONS ARE CONSIDERED CONSTRUCTION INDUSTRY STANDARDS. IF A CONTRACTOR HAS A QUESTION REGARDING THEIR EXACT MEANING THE ARCHITECT OR THE ENGINEER RESPONSIBLE OF THE PROJECT SHALL BE NOTIFIED FOR CLARIFICATIONS.
24. SITE CONTRACTOR TO CALL DIG ALERT (1-800-227-2600) TO LOCATE ANY AND ALL UNDERGROUND UTILITIES PRIOR TO ANY EXCAVATION.
25. ALL FACILITIES TO BE INSTALLED ARE UNMANNED. NO (E) PARKING SPACES WILL BE USED OR REMOVED BY THIS PROJECT.
26. PRIOR TO THE ISSUANCE OF ANY CONSTRUCTION PERMITS, THE APPLICANT SHALL INCORPORATE ANY CONSTRUCTION BEST MANAGEMENT PRACTICES NECESSARY TO COMPLY WITH THE CITY'S MUNICIPAL CODES INTO THE CONSTRUCTION PLANS OR SPECIFICATIONS.
27. PRIOR TO THE ISSUANCE OF ANY CONSTRUCTION PERMITS, THE APPLICANT SHALL SUBMIT A WATER POLLUTION CONTROL PLAN (WPCP), THE WPCP SHALL BE PREPARED IN ACCORDANCE WITH THE GUIDELINES IN APPENDIX E OF THE CITY'S STORM WATER STANDARDS.
28. THIS PROJECT PROPOSES NO DEVELOPMENT IMPROVEMENTS OUTSIDE THE EXISTING BUILDING FOOTPRINT FOR THIS DISCRETIONARY REVIEW AND THEREFORE DOES NOT REQUIRE ANY PERMANENT STORM WATER BEST MANAGEMENT PRACTICES.
29. THIS IS ROOFTOP INSTALLATION ON AN EXISTING FACILITY AND NO GROUND DISTURBANCE OR TRENCHING IS PROPOSED BY THIS PROJECT.
30. THIS PROJECT PROPOSES NO WORK WITHIN THE PUBLIC RIGHT-OF-WAY.

STORM WATER QUALITY NOTES CONSTRUCTION BMPs:

THIS PROJECT SHALL COMPLY WITH ALL REQUIREMENTS OF THE STATE PERMIT.

NOTES 1-6 BELOW REPRESENT KEY MINIMUM REQUIREMENTS FOR CONSTRUCTION BMPs.

- 1. SUFFICIENT BMPs MUST BE INSTALLED TO PREVENT SILT, MUD OR OTHER CONSTRUCTION DEBRIS FROM BEING TRACKED INTO THE ADJACENT STREET(S) OR STORM WATER CONVEYANCE SYSTEMS DUE TO CONSTRUCTION VEHICLES OR ANY OTHER CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING ANY SUCH DEBRIS THAT MAY BE IN THE STREET AT THE END OF EACH WORK DAY OR AFTER A STORM EVENT THAT CAUSES A BREACH IN THE INSTALLED CONSTRUCTION BMPs.
2. ALL STOCK PILES OF UN-COMPACTED SOIL AND/OR BUILDING MATERIALS THAT ARE INTENDED TO BE LEFT UNPROTECTED FOR A PERIOD GREATER THAN SEVEN CALENDAR DAYS ARE TO BE PROVIDED WITH EROSION AND SEDIMENT CONTROLS. SUCH SOIL MUST BE PROTECTED EACH DAY WHEN THE PROBABILITY OF RAIN IS 40% OR GREATER.
3. A CONCRETE WASHOUT SHALL BE PROVIDED ON ALL PROJECTS WHICH PROPOSE THE CONSTRUCTION OF ANY CONCRETE IMPROVEMENTS THAT ARE TO BE POURED IN PLACE ON THE SITE.
4. ALL EROSION/SEDIMENT CONTROL DEVICES SHALL BE MAINTAINED IN WORKING ORDER AT ALL TIMES.
5. ALL SLOPES THAT ARE CREATED OR DISTURBED BY CONSTRUCTION ACTIVITY MUST BE PROTECTED AGAINST EROSION AND SEDIMENT TRANSPORT AT ALL TIMES.
6. THE STORAGE OF ALL CONSTRUCTION MATERIALS AND EQUIPMENT MUST BE PROTECTED AGAINST ANY POTENTIAL RELEASE OF POLLUTANTS INTO THE ENVIRONMENT.

GENERAL FIRE NOTES:

- 1. BUILDINGS UNDERGOING CONSTRUCTION, ALTERATION, OR DEMOLITION SHALL BE IN ACCORDANCE WITH 2015 INTERNATIONAL BUILDING CODE AND ALL GOVERNING CODES.
2. ADDRESS SHALL BE PROVIDED FOR ALL PROPOSED AND EXISTING BUILDINGS IN A POSITION AS TO BE PLAINLY VISIBLE AND LEGIBLE FROM THE STREET OR ROAD FRONTING THE PROPERTY.(2015 INTERNATIONAL BUILDING CODE 501.2)
3. DECORATIVE MATERIALS SHALL BE MAINTAINED IN A FLAME-RETARDANT CONDITION,(2015 INTERNATIONAL BUILDING CODE 806.1)
4. PORTABLE FIRE EXTINGUISHERS: AT LEAST ONE FIRE EXTINGUISHER WITH A MINIMUM RATING OF 2-A-10B-C SHALL BE PROVIDED WITHIN 75 FEET MAXIMUM TRAVEL DISTANCE FOR EACH 6,000 SQUARE FEET OR PORTION THEREOF ON EACH FLOOR.(2015 INTERNATIONAL BUILDING CODE 906.1.1 AND SECTION 906.3.1)

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ABBREVIATION

DEFINITION

Table with 2 columns: ABBREVIATION and DEFINITION. Lists various construction terms like ANCHOR BOLT, ABOVE, ANTENNA, etc.

ABBREVIATION

DEFINITION

Table with 2 columns: ABBREVIATION and DEFINITION. Lists various construction terms like FABRICATION(OR), FINISH FLOOR, FINISH GRADE, etc.

ABBREVIATION

DEFINITION

Table with 2 columns: ABBREVIATION and DEFINITION. Lists various construction terms like POWER (CABINET), QUANTITY, RADIUS, etc.

LANDLORD SIGNATURE



AT&T MOBILITY
RTC BUILDING 3
18221NE 72ND WAY
REDMOND, WA.98052



22263 68th AVE S
KENT, WA 98032



16212 Bothell-Everett Hwy
Suite F304,
Mill Creek, WA 98012

ABBREVIATIONS

Table mapping symbols to their meanings: NEW ANTENNA, EXISTING ANTENNA, GROUND ROD, GROUND BUS BAR, MECHANICAL GRND. CONN., CADWELD, GROUND ACCESS WELL, ELECTRIC BOX, TELEPHONE BOX, LIGHT POLE, FND. MONUMENT, SPOT ELEVATION, SET POINT, REVISION, GRID REFERENCE, DETAIL REFERENCE, ELEVATION REFERENCE, SECTION REFERENCE, GROUT OR PLASTER, (E) BRICK, (E) MASONRY, CONCRETE, EARTH, GRAVEL, PLYWOOD, SAND, WOOD CONT., WOOD BLOCKING, STEEL.

Table mapping symbols to their meanings: CENTERLINE, PROPERTY/LEASE LINE, MATCH LINE, WORK POINT, GROUND CONDUCTOR, TELEPHONE CONDUIT, ELECTRICAL CONDUIT (POWER), COAXIAL CABLE, FIBER, POWER AND FIBER, OVERHEAD SERVICE CONDUCTORS, CHAIN LINK FENCING, WOOD FENCE, OVERHEAD POWER LINE, BURIED POWER LINE, OVERHEAD TELEPHONE LINE, BURIED TELEPHONE LINE, BURIED WATER LINE, BURIED SANITARY SEWER, BURIED STORM DRAIN.

Table with 4 columns: REV, DATE, DESCRIPTION, BY. Contains revision entries for dates 11/03/2022, 10/17/2022, 08/29/2022.



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NOTES & LEGEND

T-2



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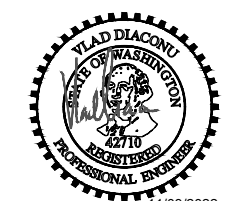


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11/03/2022  
EXPIRES 11/2024

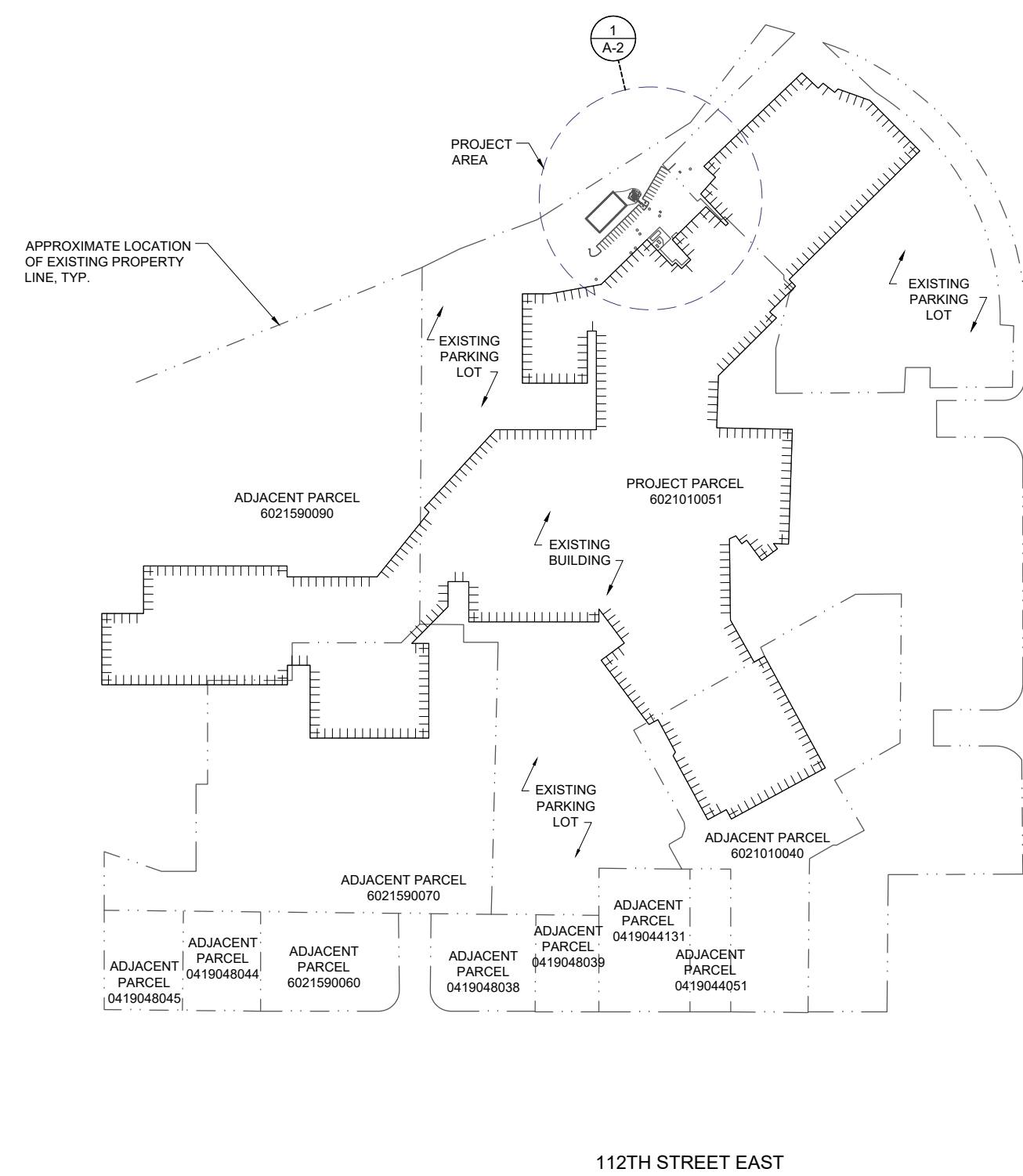
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**SITE PLAN**

**A-1**



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SITE PLAN

300' 0 150' 300' SCALE: 1" = 300'-0" (24x36)  
(OR) 1/2" = 300'-0" (11x17)



1



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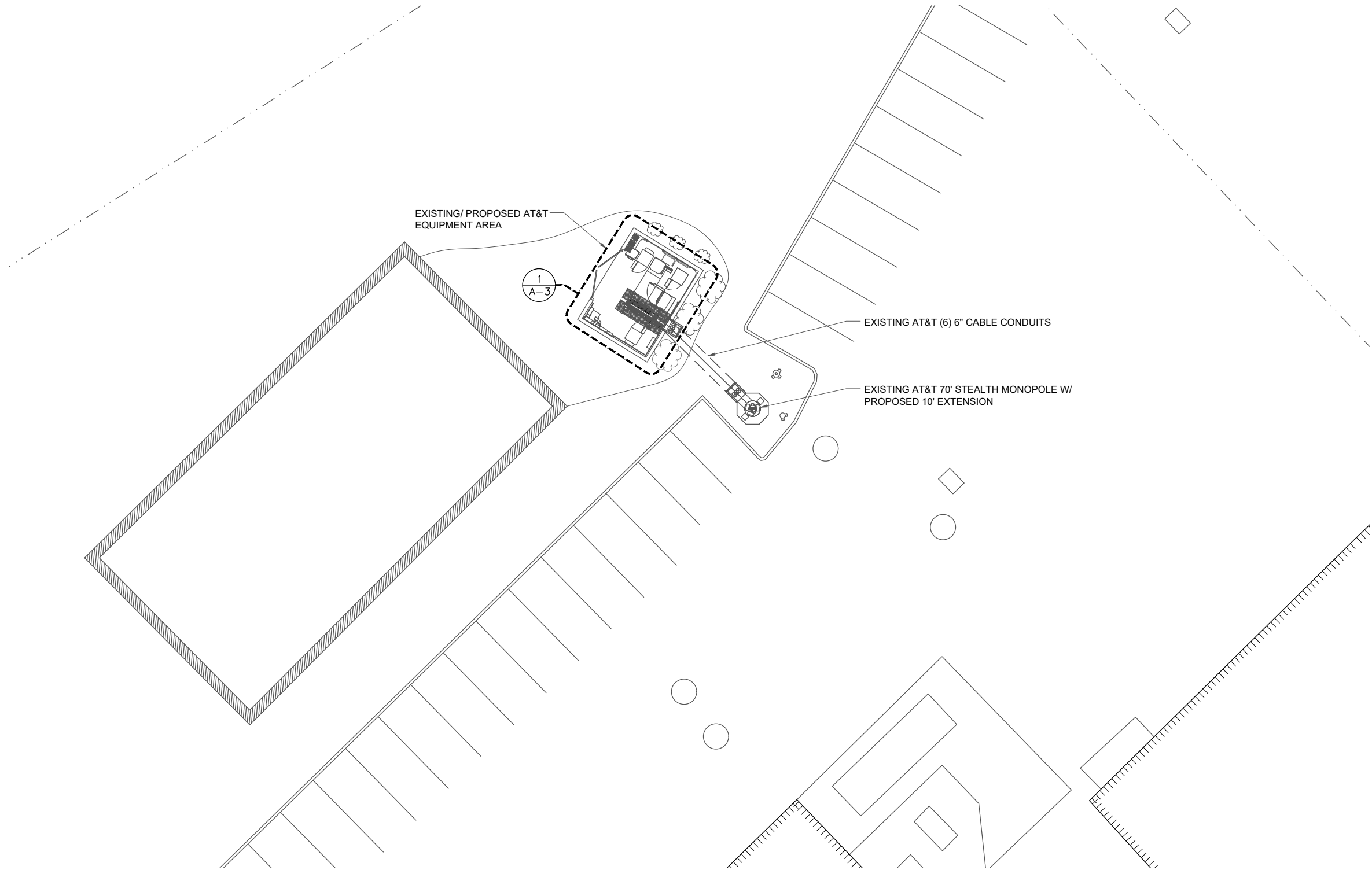
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**ENLARGED  
SITE PLAN**

**A-2**

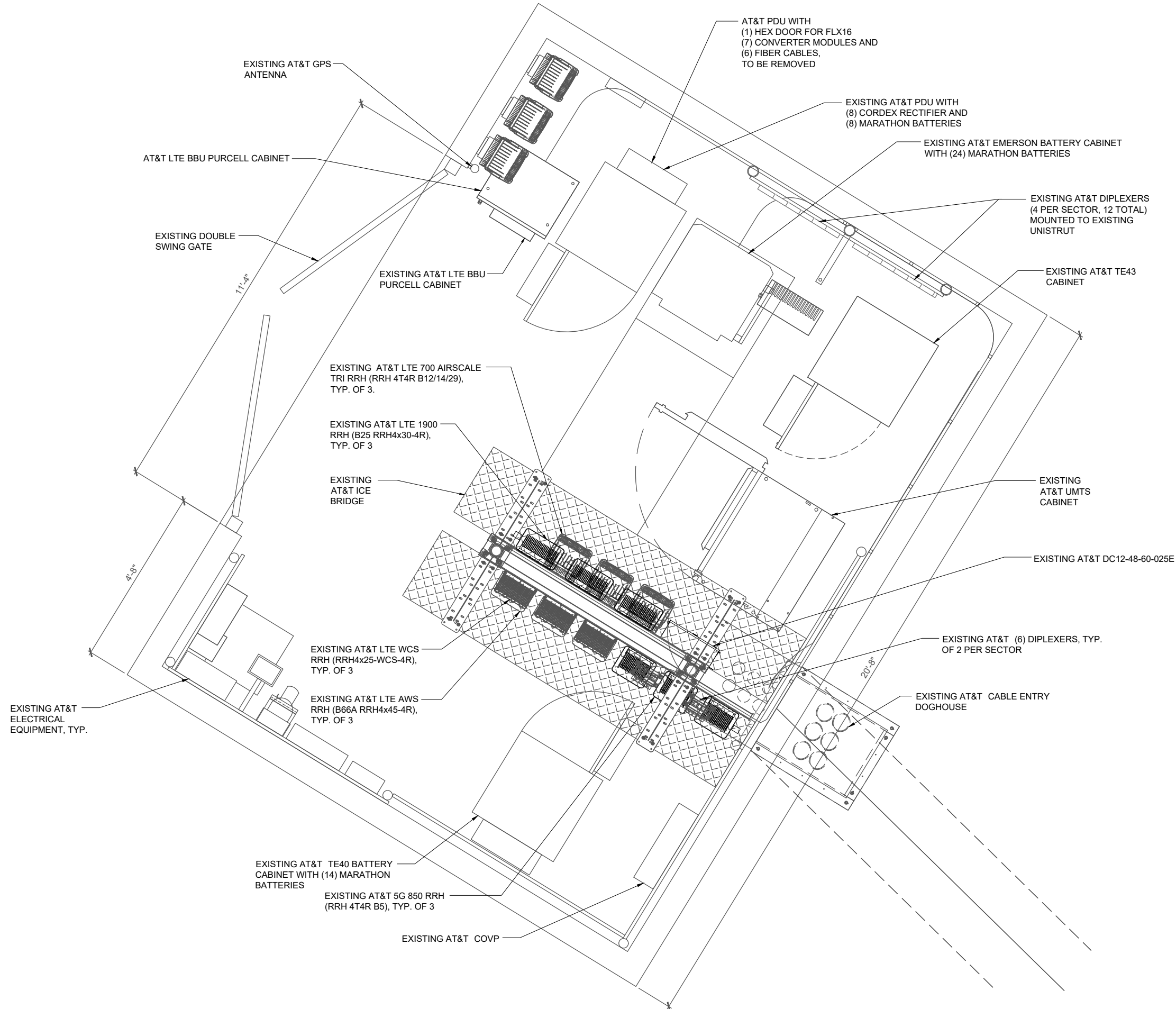


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ENLARGED SITE PLAN

0 3' 6' 11' SCALE: 3/32" = 1'-0" (24x36)  
(OR) 3/64" = 1'-0" (11x17)

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**EXISTING  
EQUIPMENT  
LAYOUT**

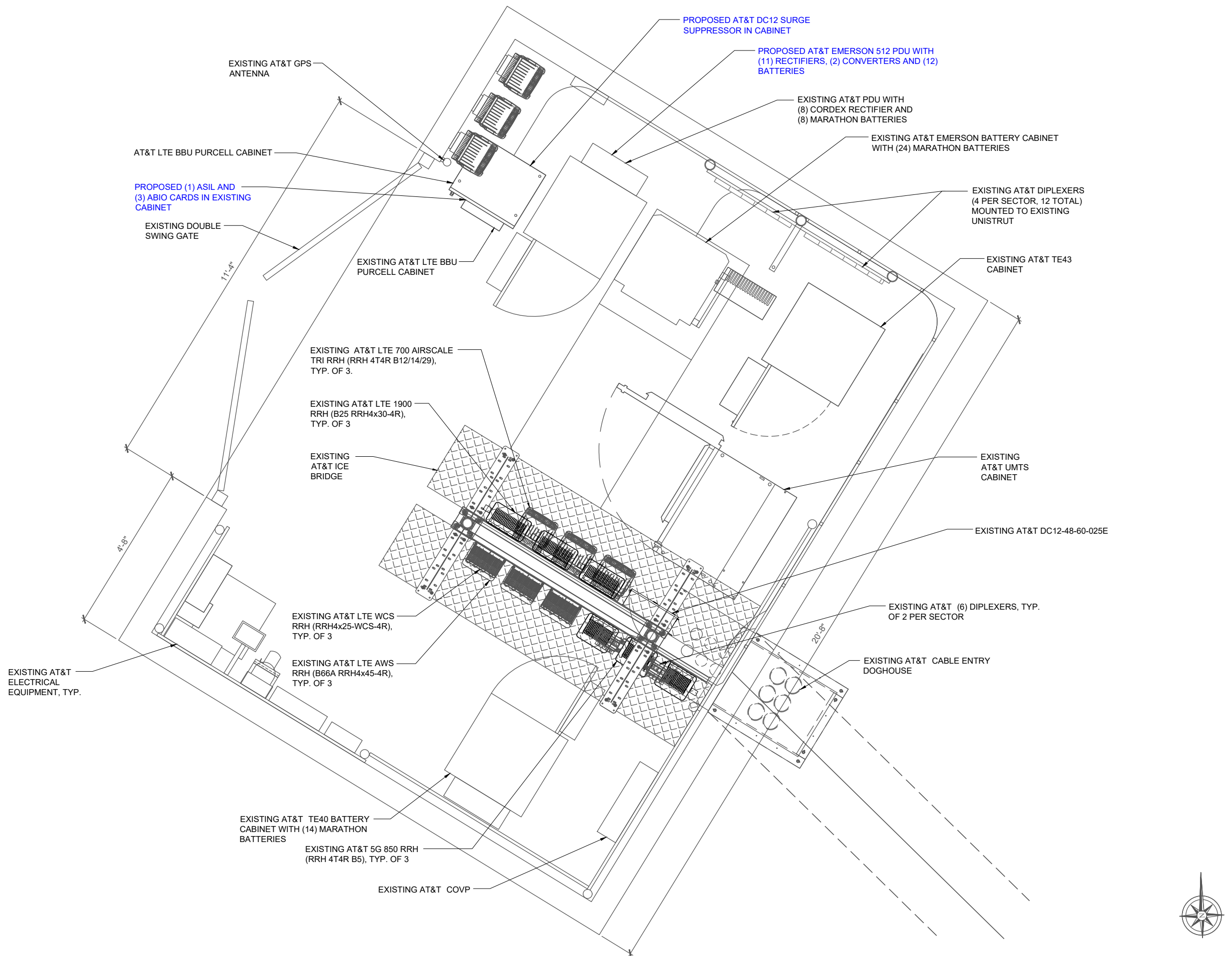
**A-3**

**EQUIPMENT LAYOUT**

0 3" 6" 1' SCALE: 3/4" = 1'-0" (24x36)  
(OR) 3/8" = 1'-0" (11x17)



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 RTC BUILDING 3  
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MasTec  
 Network Solutions

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SALAGA  
 Design

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VLAD DIACONU  
 STATE OF WASHINGTON  
 42710  
 PROFESSIONAL ENGINEER  
 EXPIRES 11/2025

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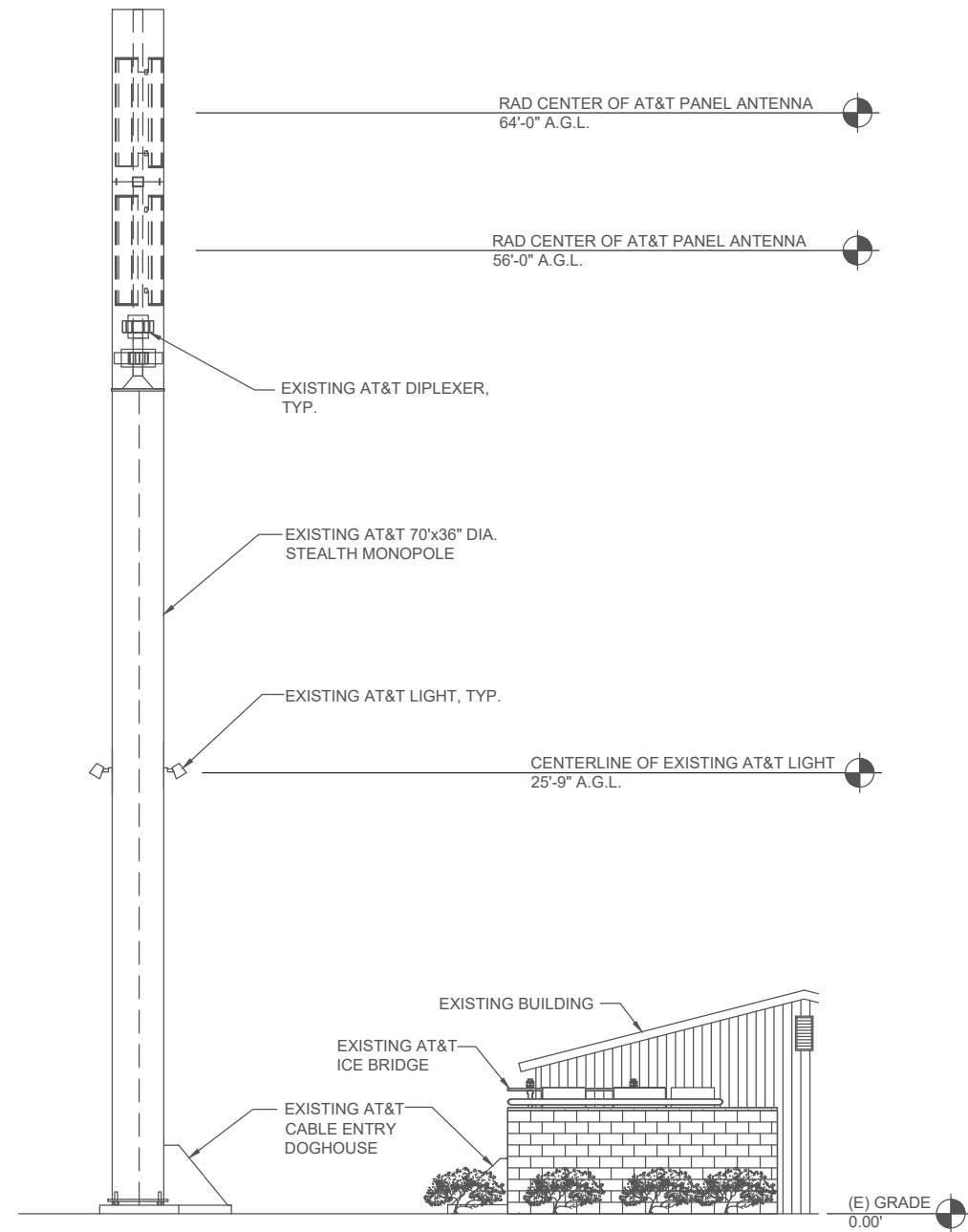
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**PROPOSED  
 EQUIPMENT  
 LAYOUT**

**A-3.1**

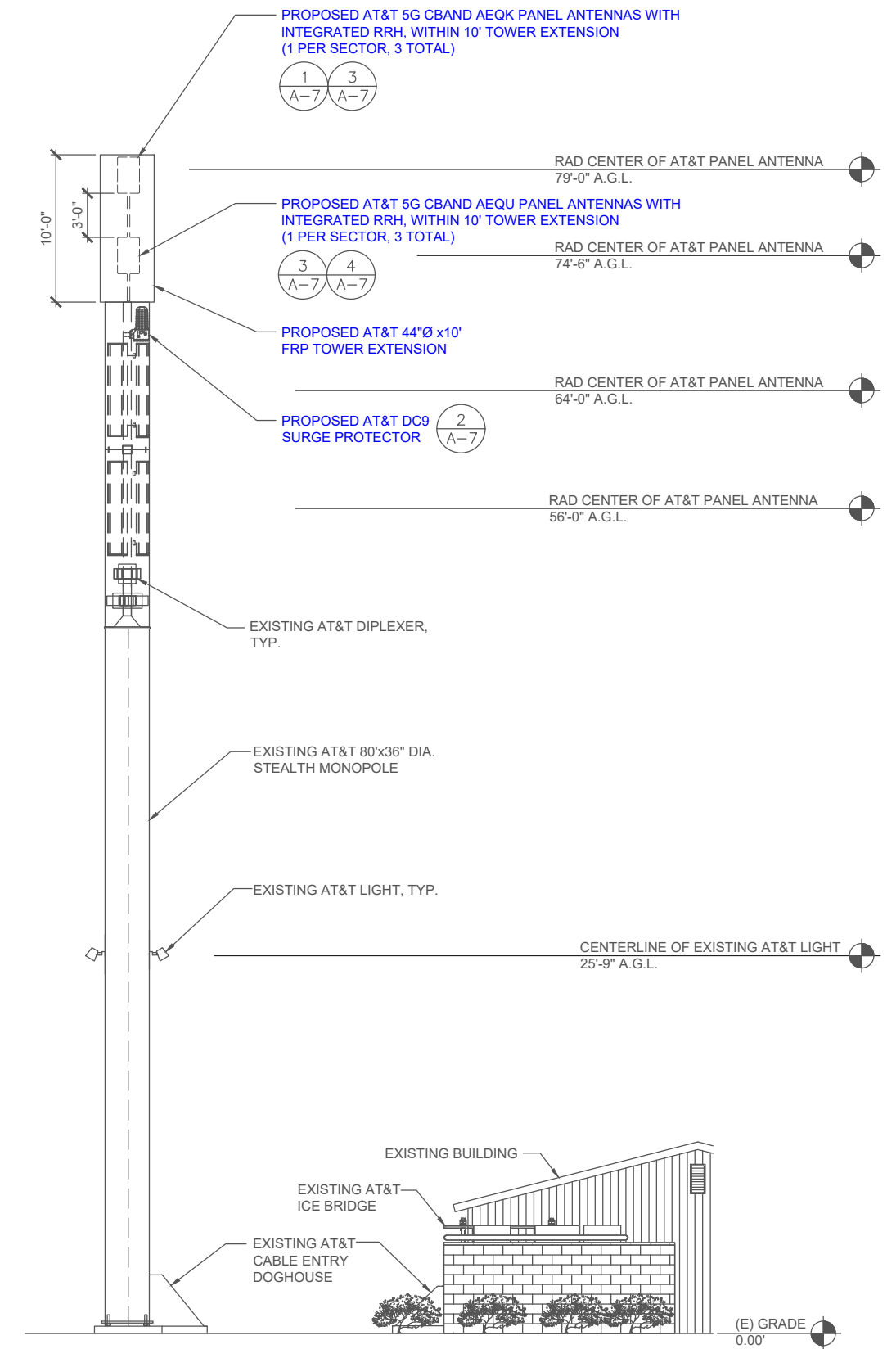
NOTE: THE ORIGINAL SIZE OF THIS PLAN IS 24" X 36". SCALE RATIO IS NOT VALID FOR REDUCED OR ENLARGED SHEET SIZES



**EXISTING NORTHEAST ELEVATION**

0 1.5' 3' 5' SCALE: 3/16" = 1'-0" (24x36)  
(OR) 3/32" = 1'-0" (11x17)

**1**



**PROPOSED NORTHEAST ELEVATION**

0 1.5' 3' 5' SCALE: 3/16" = 1'-0" (24x36)  
(OR) 3/32" = 1'-0" (11x17)

**1**

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Suite F304,  
Mill Creek, WA 98012

| REV | DATE       | DESCRIPTION | BY |
|-----|------------|-------------|----|
| 0   | 11/03/2022 | 100% CD     | GG |
| B   | 10/17/2022 | REV. 90% CD | GG |
| A   | 08/29/2022 | 90% CD      | GG |

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**WA 6413 ORBIT**

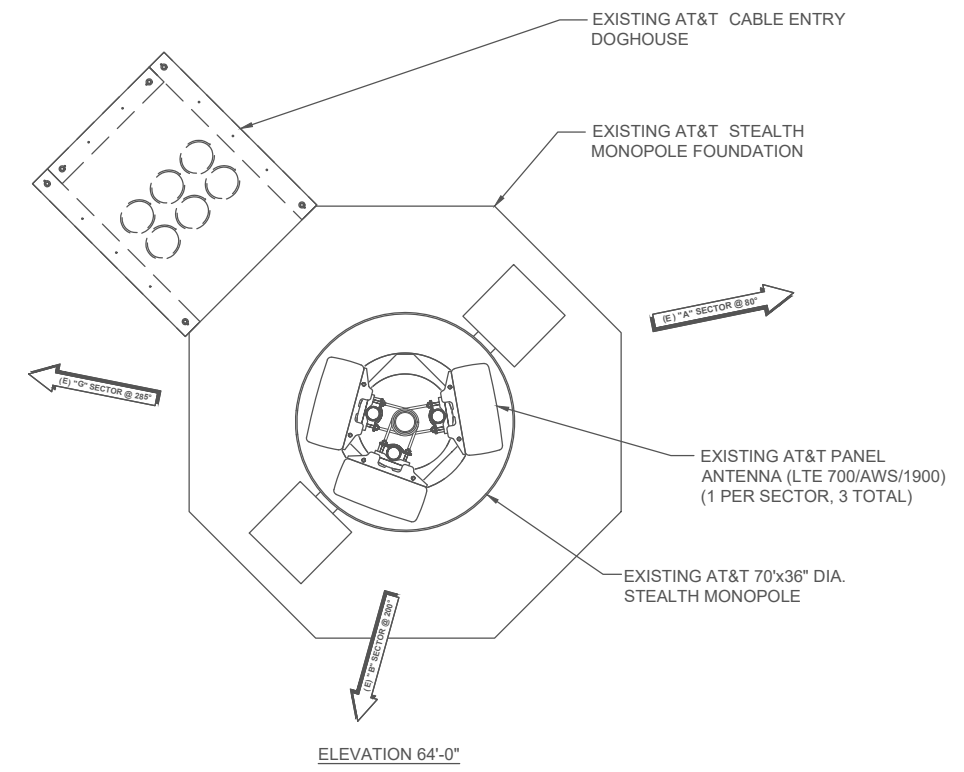
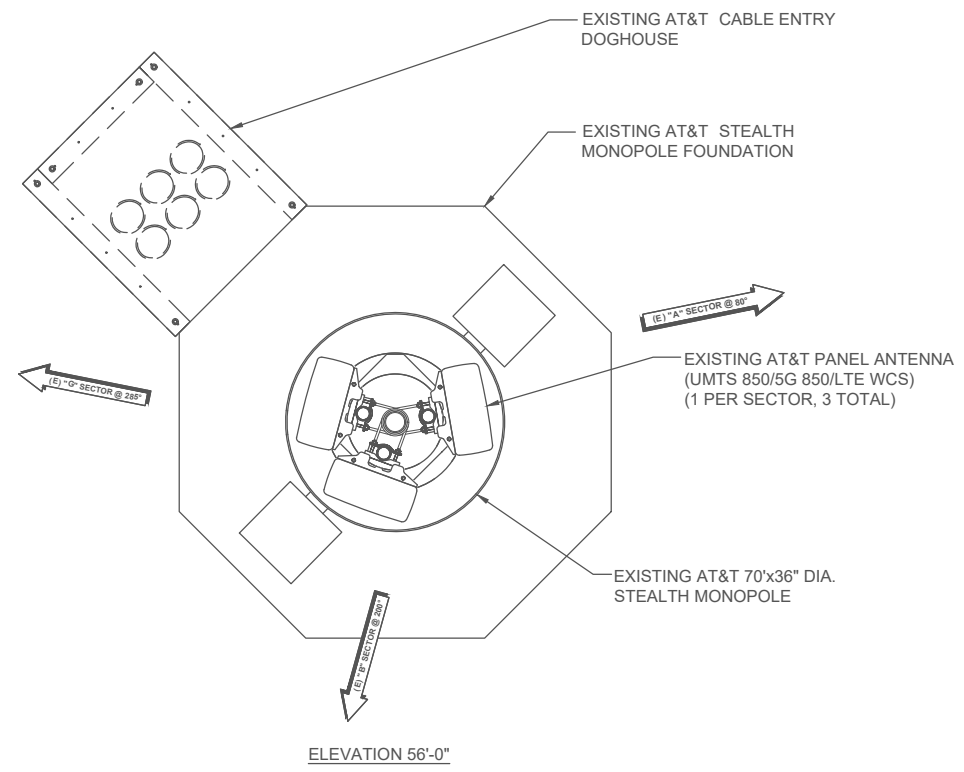
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**NORTHEAST ELEVATION**

**A-4**

NOTE: THE ORIGINAL SIZE OF THIS PLAN IS 24" X 36". SCALE RATIO IS NOT VALID FOR REDUCED OR ENLARGED SHEET SIZES

| EXISTING ANTENNA CONFIGURATION AND SCHEDULE |         |           |                    |          |           |                    |  |                |        |             | RFDS: V 1.0      | DATED: 11.18.2021 |
|---|---------|-----------|--------------------|----------|-----------|--------------------|--|----------------|--------|-------------|------------------|-------------------|
| ALPHA                                       | AZIMUTH | RADCENTER | NUMBER OF ANTENNAS | VENDOR   | MODEL     | TMA/FILTER         | RRH  | NUMBER OF COAX | COAX Ø | COAX LENGTH | DIPLEXER         |                   |
| LTE 700/ 1900/ AWS                          | 80°     | 64'       | 1                  | KATHREIN | 800372991 | (2) 78211273V02    | RRH 4T4R B12/14/29 370W HLBBA B25 RRH4X30-4R B66A RRH4X45-4R | -              | FIBER  | -           | (2) 782 11458    |                   |
| UMTS 850, 5G 850, WCS                       | 80°     | 56'       | 1                  | KATHREIN | 800372991 | (2) TMA2117F00V1-1 | RRH 4T4R B5 160W AHCA RRH4x25-WCS-4R                         | -              | FIBER  | -           | (2) 782 10788V01 |                   |
| BETA  | AZIMUTH | RADCENTER | NUMBER OF ANTENNAS | VENDOR   | MODEL     | TMA/FILTER         | RRH  | NUMBER OF COAX | COAX Ø | COAX LENGTH | DIPLEXER         |                   |
| LTE 700/ 1900/ AWS                          | 200°    | 64'       | 1                  | KATHREIN | 800372991 | (2) 78211273V02    | RRH 4T4R B12/14/29 370W HLBBA B25 RRH4X30-4R B66A RRH4X45-4R | -              | FIBER  | -           | (2) 782 11458    |                   |
| UMTS 850, 5G 850, WCS                       | 200°    | 56'       | 1                  | KATHREIN | 800372991 | (2) TMA2117F00V1-1 | RRH 4T4R B5 160W AHCA RRH4x25-WCS-4R                         | -              | FIBER  | -           | (2) 782 10788V01 |                   |
| ALPHA                                       | AZIMUTH | RADCENTER | NUMBER OF ANTENNAS | VENDOR   | MODEL     | TMA/FILTER         | RRH  | NUMBER OF COAX | COAX Ø | COAX LENGTH | DIPLEXER         |                   |
| LTE 700/ 1900/ AWS                          | 285°    | 64'       | 1                  | KATHREIN | 800372991 | (2) 78211273V02    | RRH 4T4R B12/14/29 370W HLBBA B25 RRH4X30-4R B66A RRH4X45-4R | -              | FIBER  | -           | (2) 782 11458    |                   |
| UMTS 850, 5G 850, WCS                       | 285°    | 56'       | 1                  | KATHREIN | 800372991 | (2) TMA2117F00V1-1 | RRH 4T4R B5 160W AHCA RRH4x25-WCS-4R                         | -              | FIBER  | -           | (2) 782 10788V01 |                   |



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**EXISTING ANTENNA CONFIGURATION**

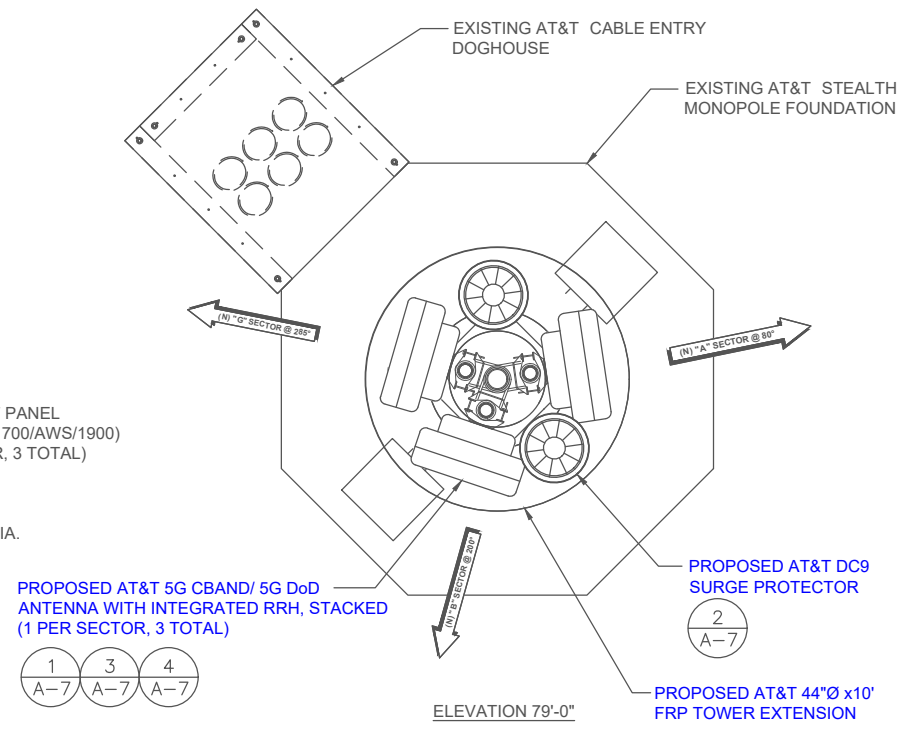
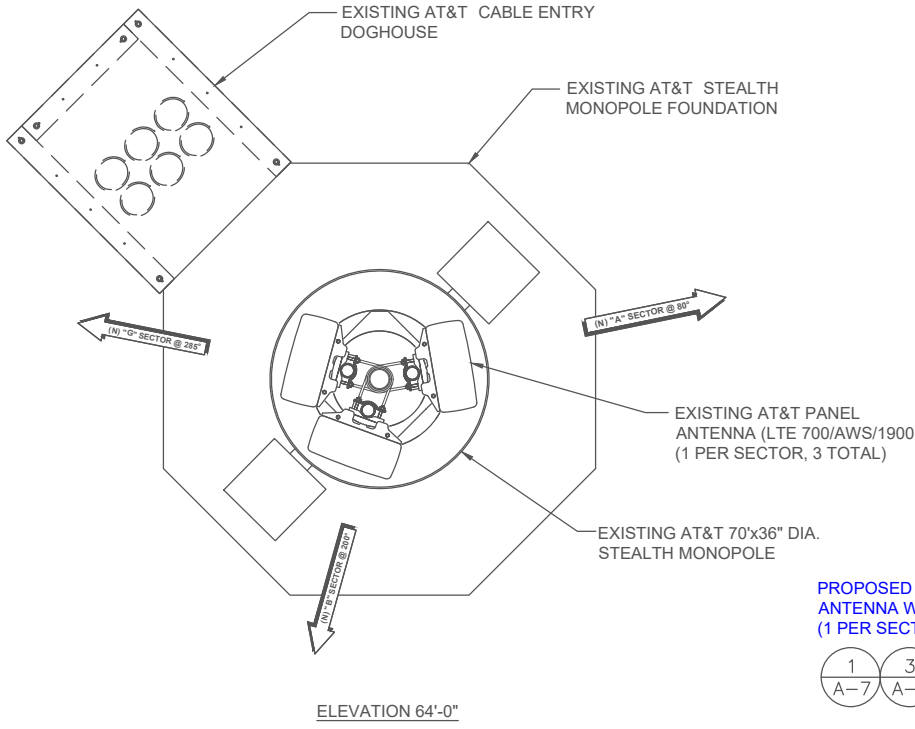
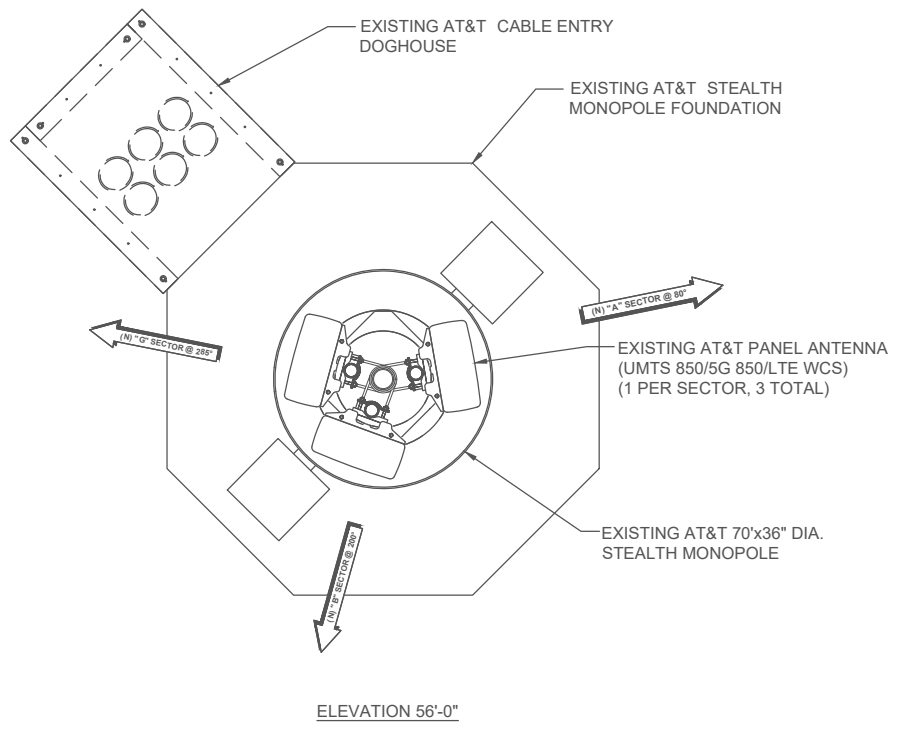
**A-5**





NOTE: THE ORIGINAL SIZE OF THIS PLAN IS 24" X 36". SCALE RATIO IS NOT VALID FOR REDUCED OR ENLARGED SHEET SIZES

| PROPOSED ANTENNA CONFIGURATION AND SCHEDULE |         |           |                    |          |                   |                    |  |                |        |             | RFDS: V 1.0      | DATED: 11.18.2021 |
|---|---------|-----------|--------------------|----------|-------------------|--------------------|--|----------------|--------|-------------|------------------|-------------------|
| ALPHA                                       | AZIMUTH | RADCENTER | NUMBER OF ANTENNAS | VENDOR   | MODEL             | TMA/FILTER         | RRH  | NUMBER OF COAX | COAX Ø | COAX LENGTH | DIPLEXER         |                   |
| 5G CBAND, 5G DoD                            | 80°     | 79'       | 1                  | NOKIA    | AEQK+AEQU STACKED | -                  | INTEGRATED AirScale<br>MAA 64T64R 192AE n77<br>200W AEQK&AEQU      | -              | FIBER  | -           | -                |                   |
| LTE 700/ 1900/ AWS                          | 80°     | 64'       | 1                  | KATHREIN | 800372991         | (2) 78211273V02    | RRH 4T4R B12/14/29 370W HLBBA<br>B25 RRH4X30-4R<br>B66A RRH4X45-4R | 4              | 7/ 8"  | -           | (2) 782 11458    |                   |
| UMTS 850, 5G 850, WCS                       | 80°     | 56'       | 1                  | KATHREIN | 800372991         | (2) TMA2117F00V1-1 | RRH 4T4R B5 160W AHCA<br>RRH4x25-WCS-4R                            | 4              | 7/ 8"  | -           | (2) 782 10788V01 |                   |
| BETA  | AZIMUTH | RADCENTER | NUMBER OF ANTENNAS | VENDOR   | MODEL             | TMA/FILTER         | RRH  | NUMBER OF COAX | COAX Ø | COAX LENGTH | DIPLEXER         |                   |
| 5G CBAND, 5G DoD                            | 200°    | 79'       | 1                  | NOKIA    | AEQK+AEQU STACKED | -                  | INTEGRATED AirScale<br>MAA 64T64R 192AE n77<br>200W AEQK&AEQU      | -              | FIBER  | -           | -                |                   |
| LTE 700/ 1900/ AWS                          | 200°    | 64'       | 1                  | KATHREIN | 800372991         | (2) 78211273V02    | RRH 4T4R B12/14/29 370W HLBBA<br>B25 RRH4X30-4R<br>B66A RRH4X45-4R | 4              | 7/ 8"  | -           | (2) 782 11458    |                   |
| UMTS 850, 5G 850, WCS                       | 200°    | 56'       | 1                  | KATHREIN | 800372991         | (2) TMA2117F00V1-1 | RRH 4T4R B5 160W AHCA<br>RRH4x25-WCS-4R                            | 4              | 7/ 8"  | -           | (2) 782 10788V01 |                   |
| GAMMA                                       | AZIMUTH | RADCENTER | NUMBER OF ANTENNAS | VENDOR   | MODEL             | TMA/FILTER         | RRH  | NUMBER OF COAX | COAX Ø | COAX LENGTH | DIPLEXER         |                   |
| 5G CBAND, 5G DoD                            | 285°    | 79'       | 1                  | NOKIA    | AEQK+AEQU STACKED | -                  | INTEGRATED AirScale<br>MAA 64T64R 192AE n77<br>200W AEQK&AEQU      | -              | FIBER  | -           | -                |                   |
| LTE 700/ 1900/ AWS                          | 285°    | 64'       | 1                  | KATHREIN | 800372991         | (2) 78211273V02    | RRH 4T4R B12/14/29 370W HLBBA<br>B25 RRH4X30-4R<br>B66A RRH4X45-4R | 4              | 7/ 8"  | -           | (2) 782 11458    |                   |
| UMTS 850, 5G 850, WCS                       | 285°    | 56'       | 1                  | KATHREIN | 800372991         | (2) TMA2117F00V1-1 | RRH 4T4R B5 160W AHCA<br>RRH4x25-WCS-4R                            | 4              | 7/ 8"  | -           | (2) 782 10788V01 |                   |



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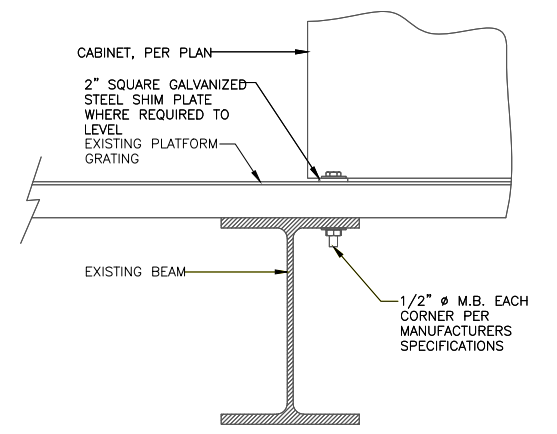
**WA 6413 ORBIT**

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PUYALLUP, WA 98373

**PROPOSED ANTENNA CONFIGURATION**

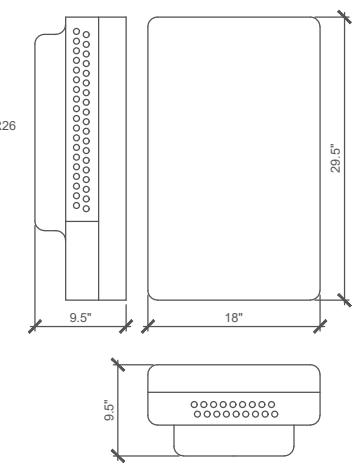
**A-6**

NOTE: THE ORIGINAL SIZE OF THIS PLAN IS 24" X 36". SCALE RATIO IS NOT VALID FOR REDUCED OR ENLARGED SHEET SIZES



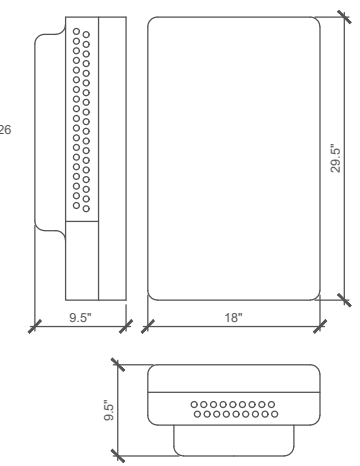
**NOKIA AIRSCALE AEQU**  
**MAA 64T64R 192AE-n77 200W**

DIMENSIONS, HxWxD: 29.5" x 18" x 9.5"  
 WEIGHT: 99.2 lb  
 POWER CONSUMPTIONS: 727W  
 OPTICAL PORTS: (2) SFP 2, 10/ 25 GE  
 CONNECTOR: LMI/ HDMI, SNA  
 CONTROL AISG, MDR26



**NOKIA AIRSCALE AEQK**  
**MAA 64T64R 192AE-n77 200W**

DIMENSIONS, HxWxD: 29.5" x 18" x 9.5"  
 WEIGHT: 99.2 lb  
 POWER CONSUMPTIONS: 727W  
 OPTICAL PORTS: (2) SFP 2, 10/ 25 GE  
 CONNECTOR: LMI/ HDMI, SNA  
 CONTROL AISG, MDR26



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**DETAILS**

**A-7**

NOT USED SCALE N.T.S. 9

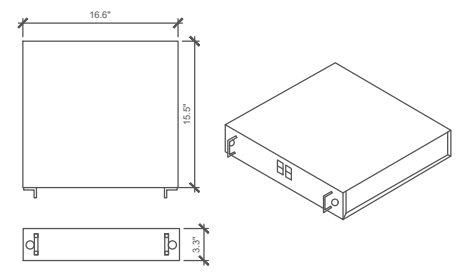
CABINET ANCHOR DETAIL SCALE N.T.S. 6

ANTENNA DETAIL SCALE N.T.S. 4

ANTENNA DETAIL SCALE N.T.S. 1

**RAYCAP DC12-48-60-RM/DC9 48-60-RM**

DIMENSIONS, WxDxH: 264x160x264 mm  
 NOMINAL OPERATING VOLTAGE: 48 VDC  
 NOMINAL DISCHARGE CURRENT: 20 kA 8/2  
 MAXIMUM DISCHARGE CURRENT: 60 kA 8/20  
 MAXIMUM CONTINUOUS OPERATING VOLTAGE: 75 VDC  
 VOLTAGE PROTECTION RATING: 400 V  
 TOTAL WEIGHT: 53 LBS

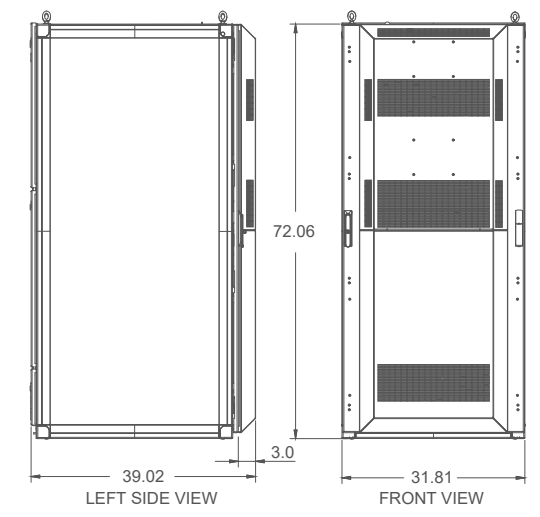


NOT USED SCALE N.T.S. 10

DC 12 SURGE PROTECTOR SCALE N.T.S. 7

**EMERSON 512 NETXTEND FLEX**

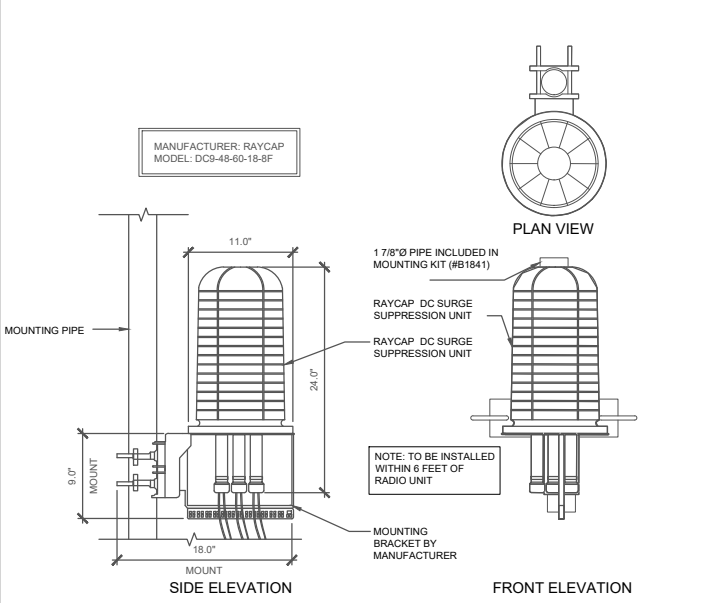
DIMENSIONS: 72.06" H x 31.81" W x 39.02" D  
 WEIGHT: 752 lb  
 FULL WEIGHT: 2206 lb  
 SYSTEM VOLTAGE, NORMAL: -48 VDC  
 SYSTEM VOLTAGE, SECONDARY: +24 VDC  
 RECTIFIER: 3500 W OR 2000 W  
 DISTRIBUTION PANEL: 600 A



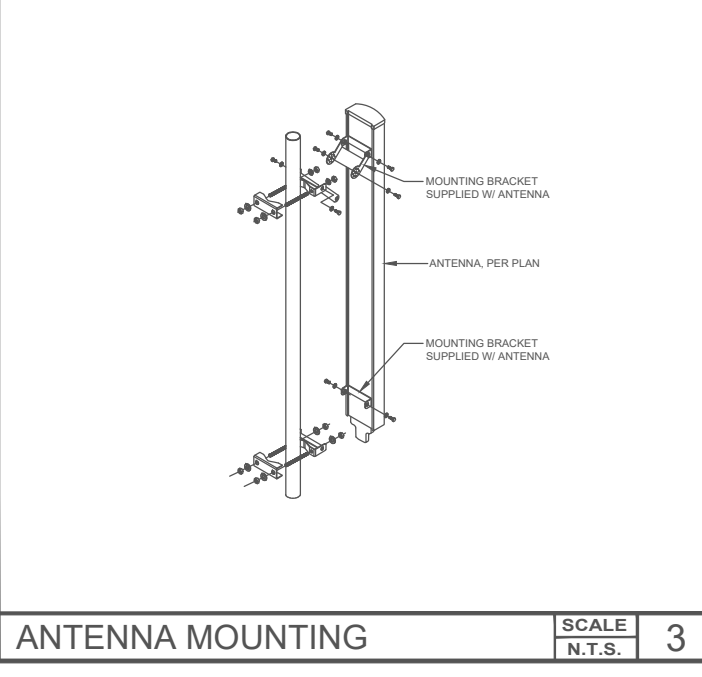
NOT USED SCALE N.T.S. 11

NOT USED SCALE N.T.S. 8

EMERSON 512 PDU SCALE N.T.S. 5



DC9 SURGE SUPPRESSOR SCALE N.T.S. 2

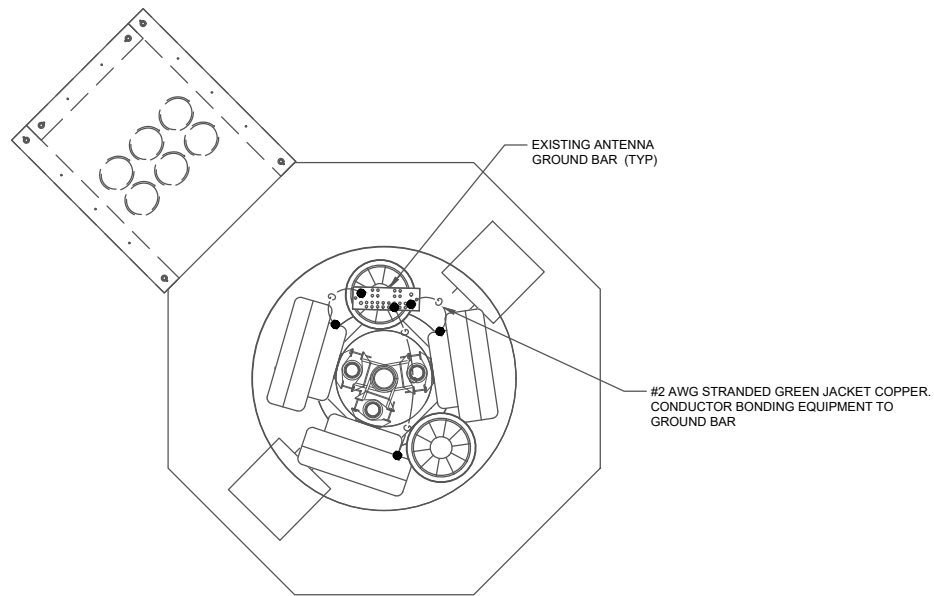


ANTENNA MOUNTING SCALE N.T.S. 3

**ELECTRICAL GROUNDING SPECIFICATIONS**

- GROUNDING SHALL COMPLY WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE CURRENTLY IN EFFECT FOR THE AUTHORITY HAVING JURISDICTION.
- ALL GROUNDING DEVICES SHALL BE U.L. LISTED FOR THEIR INTENDED USE.
- GROUND WIRES SHALL BE TINNED #2 AWG BARE SOLID COPPER UNLESS OTHERWISE NOTED.
- CONNECTIONS OF ALL GROUND WIRES TO THE GROUND RING SHALL BE EXOTHERMIC (CAD-WELDED), UNLESS OTHERWISE NOTED, AND SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND T-MOBILE WIRELESS BROADBAND STANDARDS.
- GROUNDING CONDUCTORS SHALL BE ROUTED ALONG THE SHORTEST AND STRAIGHTEST PATH POSSIBLE. WHEN REQUIRED, GROUND LEADS SHALL BE BENT TO A MINIMUM OF 8" RADIUS.
- WHERE GROUND WIRES ARE ROUTED FROM ANY CONNECTION ABOVE GRADE TO THE GROUND RING, INSTALL WIRE IN 3/4" HEAVY WALL LIQUID TIGHT FLEXIBLE CONDUIT FROM CONNECTION POINT TO 5' BELOW GRADE AND SEAL THE TOP WITH SILICONE SEALANT.
- ALL GROUND BARS SHALL BE TINNED, 1/4" COPPER, SECTOR BARS 2", COLLECTOR AND MGB BARS 4", OF SUFFICIENT LENGTH TO ACCOMMODATE ALL REQUIRED CONNECTIONS WITHOUT DOUBLING LUGS, AND EACH INSTALLED WITH ISOLATORS. WHEN CONNECTING GROUND BARS (WITHIN 10 FEET OF GRADE) DIRECTLY TO THE GROUND RING, 2 EA. #2 SOLID DOWNLEADS SHALL BE CAD-WELDED TO THE GROUND BAR, 1 AT EACH OPPOSITE BOTTOM CORNER, AND EACH SHALL RUN IN 3/4" HEAVY WALL LIQUID TIGHT FLEXIBLE CONDUIT FROM GROUND BAR DOWN TO THE GROUND RING. WHEN CONNECTING SECTOR GROUND BARS, DAISY-CHAIN THE GROUND BARS AND RUN 1 EA. #2 AWG STRANDED COPPER WIRE WITH THWN INSULATION FROM THE MIDDLE GROUND BAR TO THE GROUND RING AND CAD-WELD TO THE RING.
- WHEN ATTACHING STRANDED GROUND LEADS TO THE GROUND BARS, 2 HOLE COMPRESSION LUGS SHALL BE USED. PROTECT WITH WEATHERPROOF HEAT SHRINK, AND WITH A THIN COAT OF "KOPR SHIELD" OR EQUIVALENT PROPERLY APPLIED AND ATTACHED ONLY WITH STAINLESS STEEL HARDWARE.
- WHEN GROUNDING EQUIPMENT ENCLOSURES, PANELS, FRAMES, AND OTHER METAL APPARATUS, A #6 AWG STRANDED COPPER WIRE WITH THWN INSULATION SHALL BE ATTACHED UTILIZING A 2 HOLE COMPRESSION TYPE LUG, PROTECTED WITH WEATHERPROOF HEAT A CLEAN AND CORROSION FREE METALLIC SURFACE UTILIZING STAINLESS STEEL SELF-TAPPING SCREWS AS NOTED IN NOTE 10 BELOW.
- PREPARE ALL BONDING SURFACES FOR GROUND CONNECTIONS BY REMOVING ANY AND ALL PAINT AND CORROSION TO SHINY METAL. FOLLOWING CAD-WELDED CONNECTIONS TO NON-COPPER SURFACES, APPLY ONE COAT OF ANY ANTI-OXIDIZING PAINT, "COLD GALV" OR EQUIVALENT.
- GROUND RODS SHALL BE COPPER-CLAD STEEL 5/8"x10", SPACED NO LESS THAN 10' ON CENTER.
- ALL GROUND SYSTEM CONDUCTORS AND CONDUITS SHALL BE SECURED UTILIZING ONLY NONMETALLIC, NON-CONDUCTIVE, UV RATED CLAMPS, BRACKET, AND OR SUPPORTS.
- WHEN REQUIRED, THE CONTRACTOR SHALL ENGAGE THE SERVICES OF AN INDEPENDENT TESTING FIRM TO VERIFY, UTILIZING A MEGGER TEST, THAT THE RESISTANCE TO EARTH OF THE NEW GROUND SYSTEM IS EQUAL TO OR LESS THAN 5 (OHMS). A COPY OF THE COMPLETE TESTING REPORT SHALL BE PROVIDED TO THE T-MOBILE REPRESENTATIVE.
- ALL MATERIALS AND HARDWARE SHALL BE INSTALLED IN A WORKMAN-LIKE MANNER IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, AND DEFINED IN NFPA-70 AND APPROVED BY A.H.J.

**NOTE:**  
ADD BURNDY CLAMP TO BOND GROUND BAR TO TOWER OR BUILDING STEEL, BELOW GROUND BAR INSTALLATION ELEVATION



| LEGEND |                                  |
|--------|----------------------------------|
| ■      | EXOTHERMIC CONNECTION            |
| ●      | MECHANICAL CONNECTION            |
| ⊠      | EQUIPMENT GROUND BAR             |
| ⊡      | ANTENNA GROUND BAR (AS REQUIRED) |
| — — —  | #2 AWG GROUND LEAD (AS REQUIRED) |

- NOTE:**
- CONTRACTOR TO REPLACE ALL MISSING GROUND BARS AND GROUNDING CONNECTIONS AS REQUIRED.

NOTE: THE ORIGINAL SIZE OF THIS PLAN IS 24" X 36". SCALE RATIO IS NOT VALID FOR REDUCED OR ENLARGED SHEET SIZES

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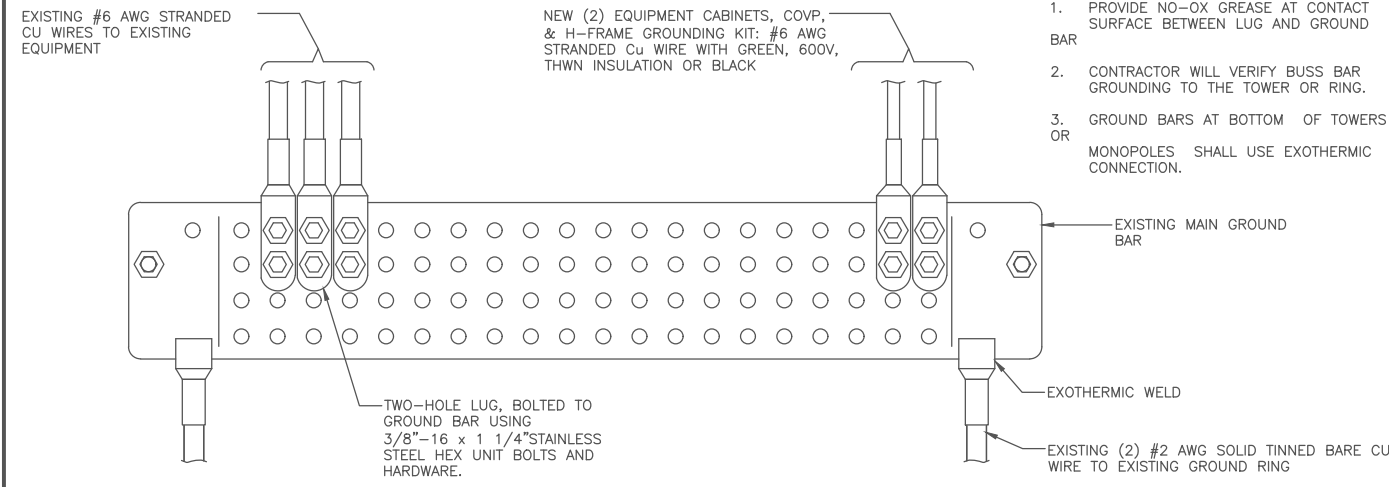
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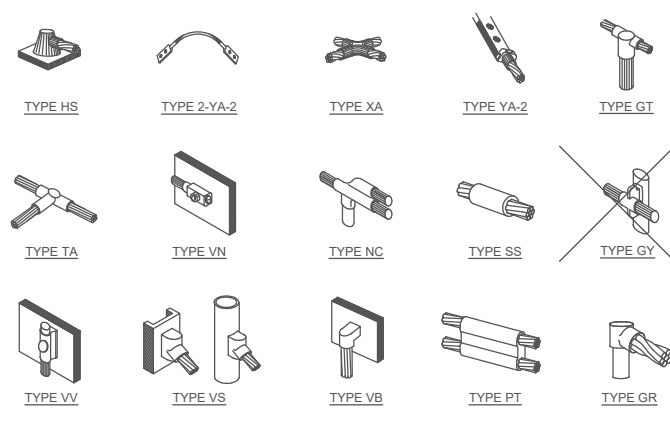
**GROUNDING PLANS**

**G-1**

NOTE: THE ORIGINAL SIZE OF THIS PLAN IS 24" X 36". SCALE RATIO IS NOT VALID FOR REDUCED OR ENLARGED SHEET SIZES



- NOTES:**
1. PROVIDE NO-OX GREASE AT CONTACT SURFACE BETWEEN LUG AND GROUND BAR
  2. CONTRACTOR WILL VERIFY BUSS BAR GROUNDING TO THE TOWER OR RING.
  3. GROUND BARS AT BOTTOM OF TOWERS OR MONOPOLES SHALL USE EXOTHERMIC CONNECTION.



**NOTE:**  
ERICO EXOTHERMIC "MOLD TYPES" SHOWN HERE ARE EXAMPLES. CONSULT WITH PROJECT MANAGER FOR SPECIFIC MOLDS TO BE USED FOR THIS PROJECT.

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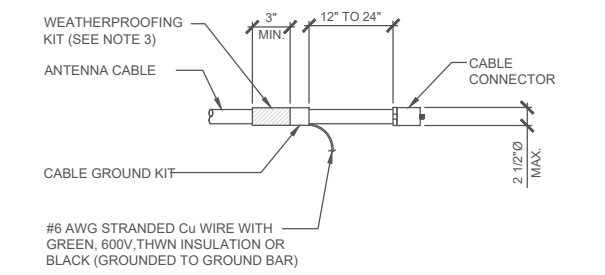
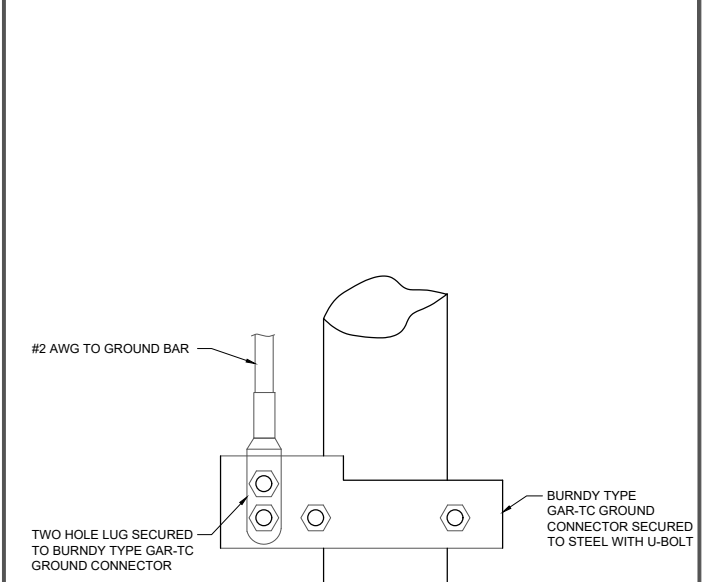
**GROUNDING DETAILS**

**G-2**

NOT USED SCALE N.T.S. 8

MAIN GROUND BAR SCALE N.T.S. 4

EXOTHERMIC WELDING SCALE N.T.S. 1

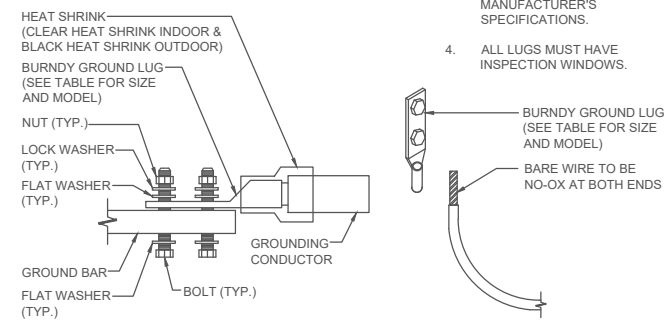


- NOTES:**
1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
  2. GROUNDING KIT TYPE SHALL BE APPROVED BY TMO PRIOR TO INSTALLATION
  3. WEATHERPROOFING SHALL INCORPORATE PPC WEATHERPROOFING TAPE KIT, COLD SHRINK SHALL NOT BE USED.

**NOTES:**

1. 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, LOCK WASHER AND NUT.
2. COPPER SHIELD, ANTIOX, CR NO-OX OR EQUIVALENT SHALL BE PLACE WHERE ALL DISSIMILAR METALS CONNECT.
3. ALL LUGS ARE TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
4. ALL LUGS MUST HAVE INSPECTION WINDOWS.

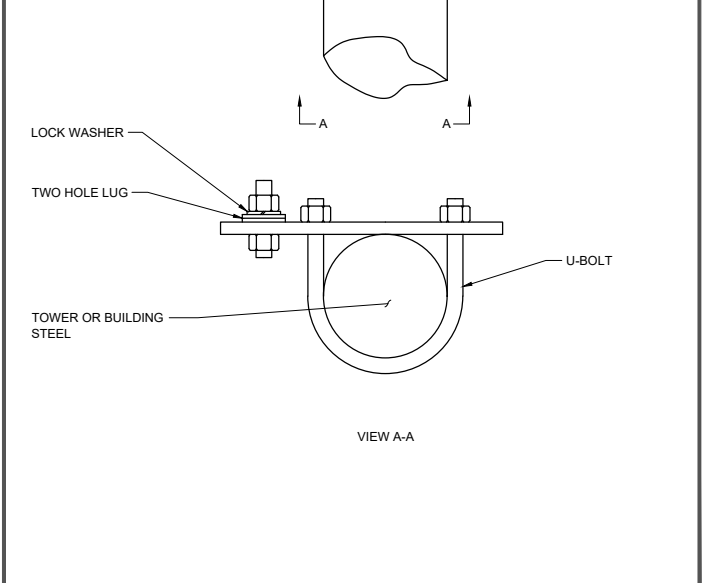
| WIRE SIZE              | BURNDY LUG | BOLT SIZE             |
|------------------------|------------|-----------------------|
| #6 AWG GREEN INSULATED | YA6C-2TC38 | 3/8" - 16 NC S 2 BOLT |
| #2 AWG SOLID TINNED    | YA3C-2TC38 | 3/8" - 16 NC S 2 BOLT |
| #2 AWG STRANDED        | YA2C-2TC38 | 3/8" - 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 |



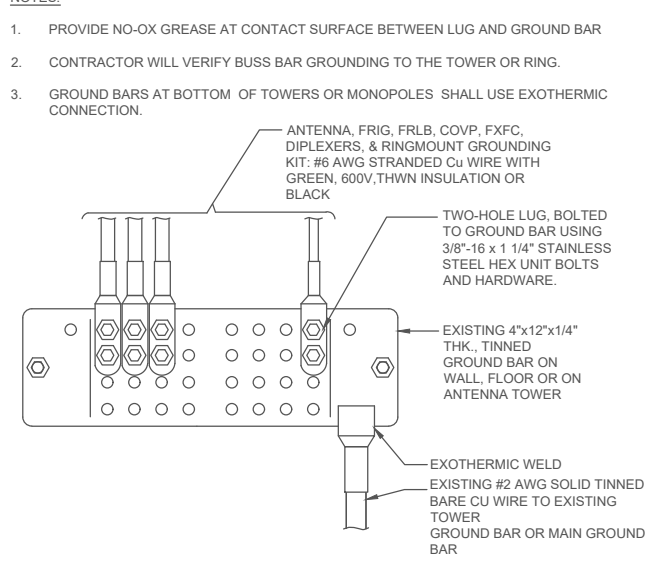
NOT USED SCALE N.T.S. 9

CABLE GROUNDING SCALE N.T.S. 5

MECHANICAL LUG SCALE N.T.S. 2



NOT USED SCALE N.T.S. 6



NOT USED SCALE N.T.S. 10

GROUND CONNECTOR SCALE N.T.S. 7

SECTOR GROUND BAR SCALE N.T.S. 3



AT&T MOBILITY  
RTC BUILDING 3  
18221NE 72ND WAY  
REDMOND, WA.98052



22263 68th AVE S  
KENT, WA 98032



16212 Bothell-Everett Hwy  
Suite F304,  
Mill Creek, WA 98012

| 0   | 11/03/2022 | 100% CD     | GG |
|-----|------------|-------------|----|
| B   | 10/17/2022 | REV. 90% CD | GG |
| A   | 08/29/2022 | 90% CD      | GG |
| REV | DATE       | DESCRIPTION | BY |



11/03/2022  
EXPIRES 11/2025

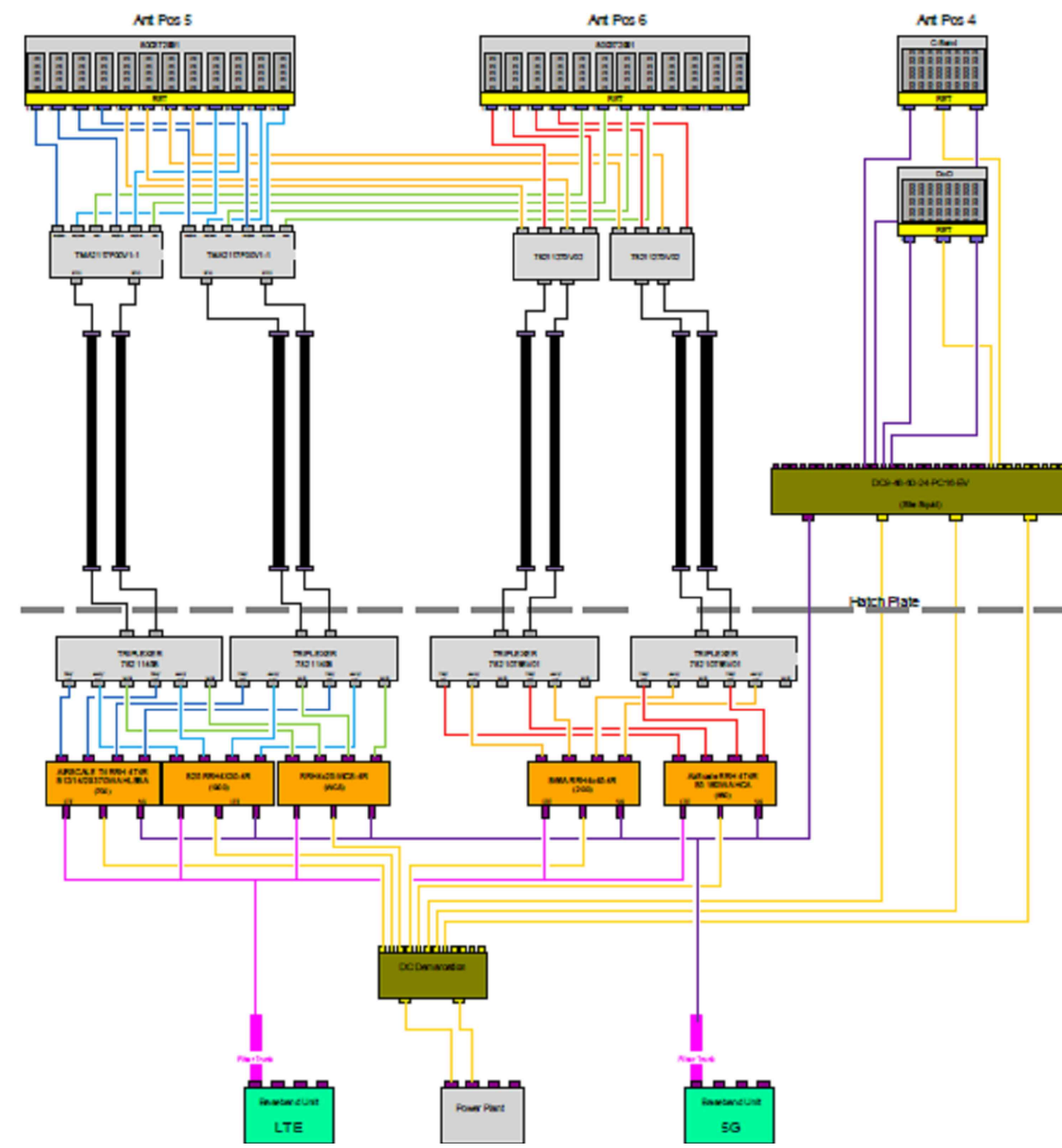
IT IS A VIOLATION OF LAW FOR ANY PERSON,  
UNLESS THEY ARE ACTING UNDER THE DIRECTION  
OF A LICENSED PROFESSIONAL ENGINEER,  
TO ALTER THIS DOCUMENT.

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ORBIT**

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PUYALLUP, WA 98373

**RF DIAGRAM  
"A" SECTOR**

**RF-1**



NOTE: THE ORIGINAL SIZE OF THIS PLAN IS 24" X 36". SCALE RATIO IS NOT VALID FOR REDUCED OR ENLARGED SHEET SIZES



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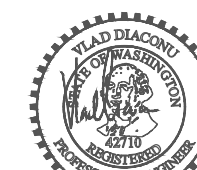


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KENT, WA 98032



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Suite F304,  
Mill Creek, WA 98012

| REV | DATE       | DESCRIPTION | BY |
|-----|------------|-------------|----|
| 0   | 11/03/2022 | 100% CD     | GG |
| B   | 10/17/2022 | REV. 90% CD | GG |
| A   | 08/29/2022 | 90% CD      | GG |



11/03/2022  
EXPIRES 11/2025

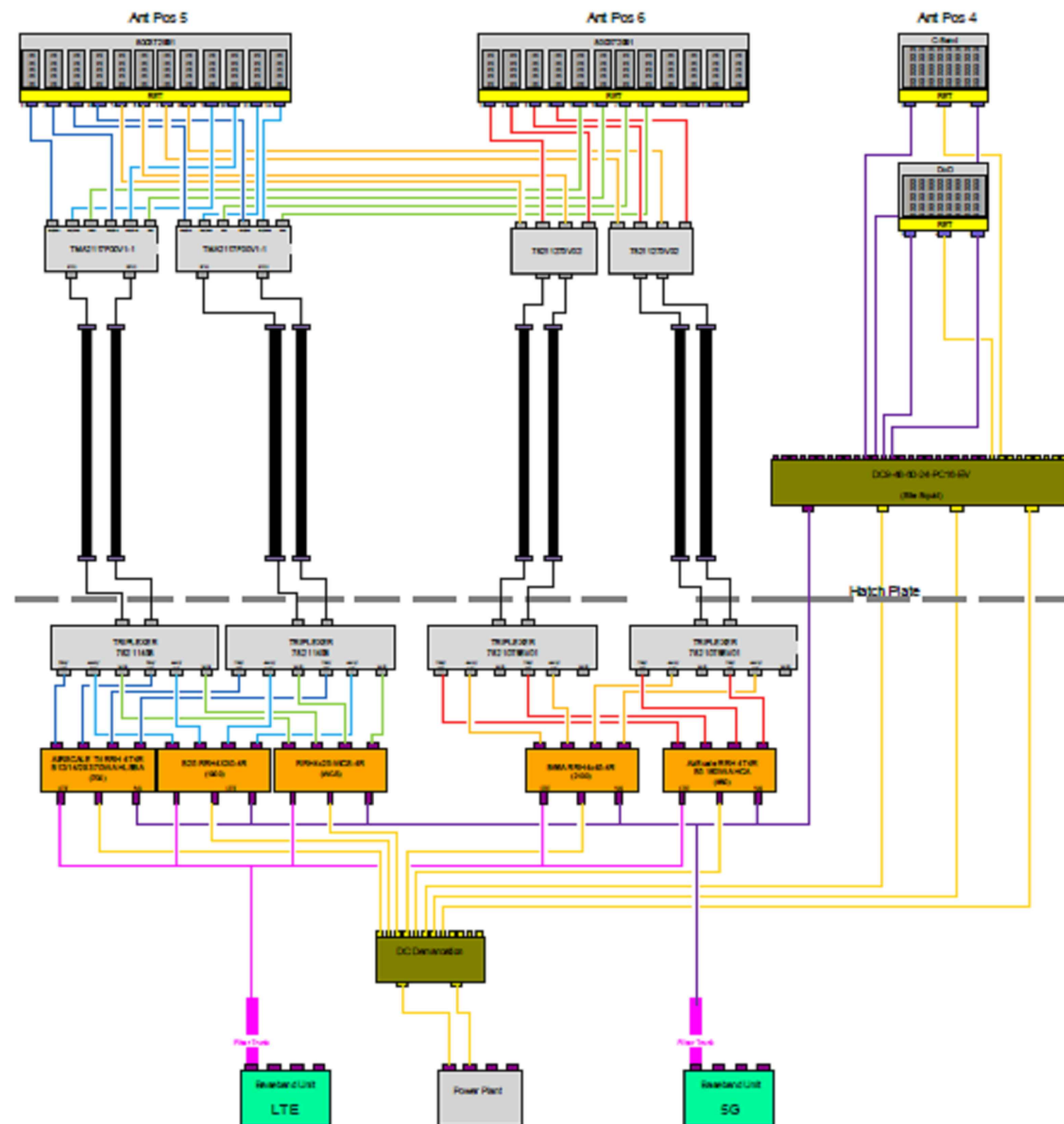
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**RF DIAGRAM  
"B" SECTOR**

**RF-2**



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Mill Creek, WA 98012

| REV | DATE       | DESCRIPTION | BY |
|-----|------------|-------------|----|
| 0   | 11/03/2022 | 100% CD     | GG |
| B   | 10/17/2022 | REV. 90% CD | GG |
| A   | 08/29/2022 | 90% CD      | GG |



11/03/2022  
EXPIRES 11/2025

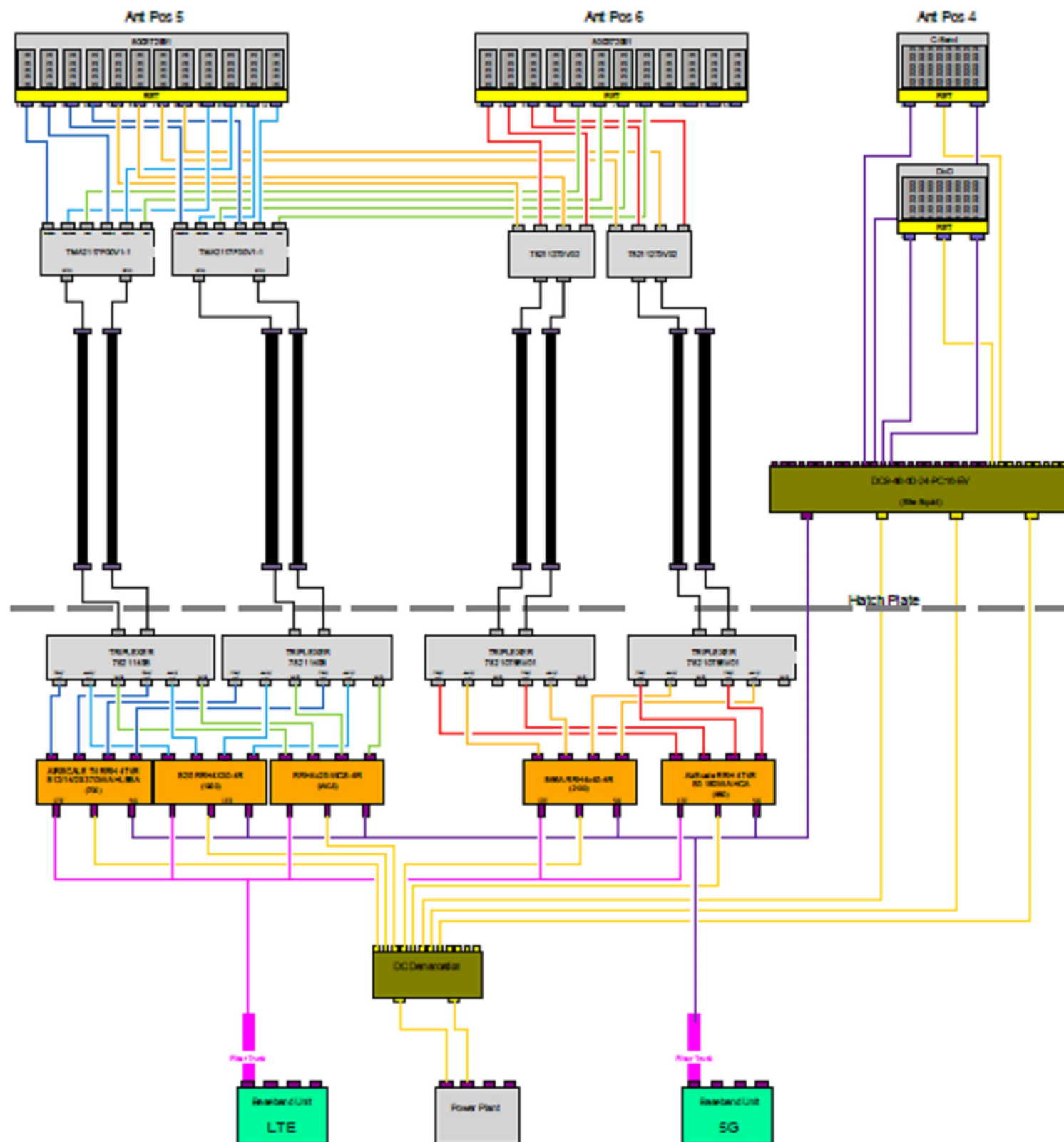
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**RF DIAGRAM  
"C" SECTOR**

**RF-3**



NOTE: THE ORIGINAL SIZE OF THIS PLAN IS 24" X 36". SCALE RATIO IS NOT VALID FOR REDUCED OR ENLARGED SHEET SIZES