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.

2018 INTERNATIONAL BUILDING CODE WITH LOCAL AMENDMENTS
2018 INTERNATIONAL FIRE CODE (IFC)
2018 INTERNATIONAL ENERGY CONSERVATION CODE

PROPERTY LEGAL DESCRIPTION:

SEE SCHEDULE "C" OF TITLE REPORT

AT&T

NEW BUILD LTE ONLY 1C: MRWOR005896
5G NR 1SR: MRWOR067548
LTC 3C: MRWOR067551
LTC 2C: MRWOR067713
LTC 4C: MRWOR067553
5G NR 1SR CBAND: TBD
USID: 319980
FA CODE: 10578441

SITE NUMBER: OL0734
SITE NAME: OLYMPIA MISSION CREEK
SITE TYPE: MONOPINE / WUC
ADDRESS: 1818 4TH AVENUE EAST
OLYMPIA, WA 98506
PARCEL ID: 80800400300

PREPARED FOR

AT&T

NEW CINGULAR WIRELESS PCS, LLC ("AT&T")
19801 SW 72ND AVE., STE. 200
TUALATIN, OR 97062

Vendor:

J5 INFRASTRUCTURE PARTNERS

23 MAUCHLY #110
IRVINE, CA 92618

J5 PROJECT ID: P-068910

Issued For:

OL0734
OLYMPIA MISSION CREEK

1818 4TH AVENUE EAST
OLYMPIA, WA 98506
PARCEL ID: 80800400300

DRAWN BY: JBE

CHECKED BY:

REV	DATE	DESCRIPTION
A	11/07/22	90% CD

PROJECT TEAM

APPLICANT / LESSEE:

NEW CINGULAR WIRELESS PCS, LLC ("AT&T")
19801 SW 72ND AVE., STE. 200
TUALATIN, OR 97062

PROJECT MANAGER:

J5 INFRASTRUCTURE PARTNERS
CONTACT: SARA MITCHELL
EMAIL: samitchell@j5ip.com
PH: (971) 281-1422

CONSTRUCTION MANAGER:

CONTACT: TOM LOGAN
EMAIL: tl804w@att.com
PH: (253) 709-0317

SITE ACQUISITION:

J5 INFRASTRUCTURE PARTNERS
CONTACT: KELLY LEA
EMAIL: klea@j5ip.com
PH: (503) 380-2717

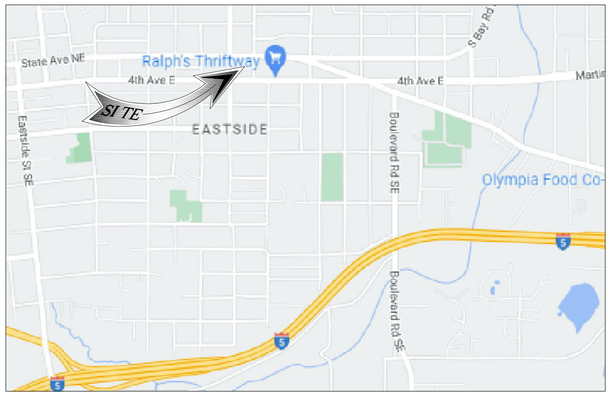
A&E MANAGER:

J5 INFRASTRUCTURE PARTNERS
CONTACT: JARRETT ELLINGTON
EMAIL: jellington@j5ip.com
PH: (706) 294-1479

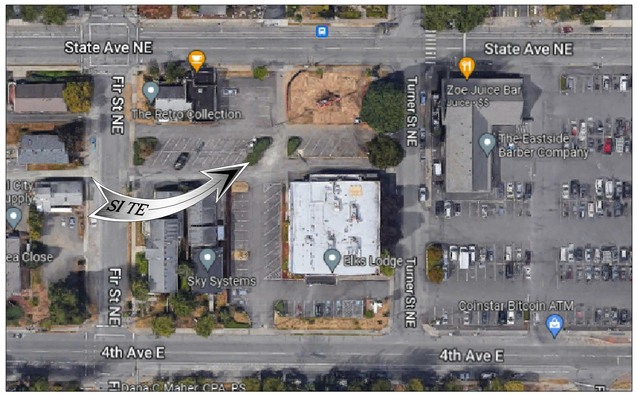
ZONING:

J5 INFRASTRUCTURE PARTNERS
CONTACT: PHILLIP KITZES
EMAIL: pkitzes@j5ip.com
PH: (206) 227-7445

VICINITY MAP



LOCAL MAP



NORTH

PROJECT DESCRIPTION

PROPOSED SITE BUILD OF AN UNMANNED TELECOMMUNICATIONS FACILITY, CONSISTING OF THE FOLLOWING:

TOWER/ANTENNA SOW:
- INSTALLATION OF (1) AT&T 120'-0" HIGH MONOPINE
- INSTALLATION OF (1) AT&T 5'-0" LIGHTNING ROD
- INSTALLATION OF (9) AT&T PANEL ANTENNAS
- INSTALLATION OF (9) AT&T REMOTE RADIO UNITS (RRU'S)
- INSTALLATION OF (6) AT&T RRH MOUNTS
- INSTALLATION OF (2) AT&T DC-9 SURGE SUPPRESSORS
- INSTALLATION OF (3) AT&T V-FRAME ANTENNA MOUNTS

EQUIPMENT SOW:
- INSTALLATION OF AN AT&T 20'-2" X 33'-9" (573 SQ. FT.) TELECOMMUNICATION COMPOUND LEASE AREA
- INSTALLATION OF AN AT&T 19'-0" X 32'-7", 6'-0" HIGH WOOD FENCE
- INSTALLATION OF (1) AT&T WALK-UP CABINET (WUC) ON CONCRETE PAD
- INSTALLATION OF (1) AT&T 30KW AC DIESEL BACK-UP GENERATOR ON CONCRETE PAD
- INSTALLATION OF (1) AT&T 200A AC POWER PANEL
- INSTALLATION OF (8) AT&T BATTERIES
- INSTALLATION OF (1) AT&T H-FRAME W/ UTILITY EQUIPMENT
- INSTALLATION OF (1) AT&T CABLE BRIDGE
- INSTALLATION OF (1) AT&T CABLE SLACK BOX
- INSTALLATION OF (6) AT&T DC POWER & (2) 24 PAIR FIBER CABLE TRUNKS
- INSTALLATION OF (1) AT&T SPD SURGE SUPPRESSOR BOX
- INSTALLATION OF (8) AT&T RECTIFIERS
- INSTALLATION OF (1) AT&T BASEBAND UNIT
- INSTALLATION OF (1) AT&T GPS ANTENNA
- INSTALLATION OF (4) SHRUBS

DEMO SOW:
- REMOVAL OF (E) SHRUBS

PROJECT AREA:
- 20'-2" X 33'-9" (573 SQ. FT.) LEASE AREA

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Licensor:

Sheet Title:
TITLE SHEET

Sheet Number:
T-1

SITE INFORMATION

PROPERTY OWNER:
ELKS LODGE
1818 4TH AVENUE EAST
OLYMPIA, WA 98506

JURISDICTION:	CITY OF OLYMPIA
WIND LOADS:	105 MPH (3-SECOND GUST)
EXPOSURE CATEGORY:	C
SEISMIC ZONE:	1
FLOOD ZONE:	---
PARCEL ID #:	80800400300
ZONING:	HIGH DENSITY CORRIDOR (HDC-2)
LATITUDE (NAD 83):	47.04659°
LONGITUDE (NAD 83):	-122.87704°

IMPERVIOUS SURFACE: 0 SQ. FT.
BASE OF EXISTING STRUCTURE: ±0' (±201.46' AMSL)
TOP OF EXISTING STRUCTURE: ±120' (±321.46' AMSL)
TOP OF STRUCTURE WITH PROPOSED EXTENSION:
±1250' (±326.46' AMSL)

ACCESSIBILITY REQUIREMENTS: FACILITY IS AN UNMANNED EQUIPMENT SPACE NOT INTENDED FOR HUMAN HABITATION AND ONLY FREQUENTLY VISITED BY MAINTENANCE PERSONAL. ACCESSIBILITY IS NOT REQUIRED PER IBC 2018, SECTION 1103.2.9 (EQUIPMENT SPACES)

TOWER OWNER: AT&T
POWER AGENCY: PUGET SOUND ELECTRIC
TELEPHONE AGENCY: TBD
RFDS VERSION: FINAL/1.0
DATE UPDATED: 6/21/2022

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.

GENERAL NOTES

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.

STATEMENTS

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 ANTENNA MOUNT STRUCTURAL ANALYSIS PROVIDED UNDER SEPARATE COVER.

DRIVING DIRECTIONS

DIRECTIONS FROM AT&T OFFICE LOCATED AT 19801 SW 72ND AVE, TUALATIN, OR 97062:

1. HEAD EAST TOWARD SW 72ND AVE (10 FT)
2. TURN RIGHT TOWARD SW 72ND AVE (128 FT)
3. TURN RIGHT ONTO SW 72ND AVE (489 FT)
4. TURN LEFT AT THE 1ST CROSS STREET ONTO SW SAGERT ST (0.4 MI)
5. TURN LEFT ONTO SW 65TH AVE (0.5 MI)
6. CONTINUE ONTO SW NYBERG ST (0.2 MI)
7. USE THE RIGHT LANE TO MERGE ONTO I-5 N VIA THE RAMP TO PORTLAND (0.3 MI)
8. MERGE ONTO I-5 N (9.5 MI)
9. USE THE MIDDLE 2 LANES TO STAY ON I-5 N (0.4 MI)
10. KEEP RIGHT TO STAY ON I-5 N (116 MI)
11. TAKE EXIT 107 FOR PACIFIC AVE (0.5 MI)
12. TURN LEFT ONTO PACIFIC AVE SE (1.2 MI)
13. USE THE LEFT LANE TO MERGE ONTO STATE AVE NE AND SITE WILL BE ON THE LEFT (0.1 MI)

DIGALERT
800-227-2600
Call 2 Full Working Days In Advance

GENERAL CONSTRUCTION NOTES:

1. PLANS ARE INTENDED TO BE DIAGRAMMATIC OUTLINE ONLY, UNLESS NOTED OTHERWISE. THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
2. THE CONTRACTOR SHALL OBTAIN, IN WRITING, AUTHORIZATION TO PROCEED BEFORE STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS.
3. CONTRACTOR SHALL CONTACT USA (UNDERGROUND SERVICE ALERT) AT (800) 227-2600, FOR UTILITY LOCATIONS, 48 HOURS BEFORE PROCEEDING WITH ANY EXCAVATION, SITE WORK OR CONSTRUCTION.
4. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY INDICATED OTHERWISE, OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.
5. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE IBC / UBC'S REQUIREMENTS REGARDING EARTHQUAKE RESISTANCE, FOR, BUT NOT LIMITED TO, PIPING, LIGHT FIXTURES, CEILING GRID, INTERIOR PARTITIONS, AND MECHANICAL EQUIPMENT. ALL WORK MUST COMPLY WITH LOCAL EARTHQUAKE CODES AND REGULATIONS.
6. REPRESENTATIONS OF TRUE NORTH, OTHER THAN THOSE FOUND ON THE PLOT OF SURVEY DRAWINGS, SHALL NOT BE USED TO IDENTIFY OR ESTABLISH BEARING OF TRUE NORTH AT THE SITE. THE CONTRACTOR SHALL RELY SOLELY ON THE PLOT OF SURVEY DRAWING AND ANY SURVEYOR'S MARKINGS AT THE SITE FOR THE ESTABLISHMENT OF TRUE NORTH, AND SHALL NOTIFY THE ARCHITECT / ENGINEER PRIOR TO PROCEEDING WITH THE WORK IF ANY DISCREPANCY IS FOUND BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND THE TRUE NORTH ORIENTATION AS DEPICTED ON THE CIVIL SURVEY. THE CONTRACTOR SHALL ASSUME SOLE LIABILITY FOR ANY FAILURE TO NOTIFY THE ARCHITECT / ENGINEER.
7. THE BUILDING DEPARTMENT ISSUING THE PERMITS SHALL BE NOTIFIED AT LEAST TWO WORKING DAYS PRIOR TO THE COMMENCEMENT OF WORK, OR AS OTHERWISE STIPULATED BY THE CODE ENFORCEMENT OFFICIAL HAVING JURISDICTION.
8. DO NOT EXCAVATE OR DISTURB BEYOND THE PROPERTY LINES OR LEASE LINES, UNLESS OTHERWISE NOTED.
9. ALL EXISTING UTILITIES, FACILITIES, CONDITIONS, AND THEIR DIMENSIONS SHOWN ON THE PLAN HAVE BEEN PLOTTED FROM AVAILABLE RECORDS. THE ARCHITECT / ENGINEER AND THE OWNER ASSUME NO RESPONSIBILITY WHATSOEVER AS TO THE SUFFICIENCY OR THE ACCURACY OF THE INFORMATION SHOWN ON THE PLANS, OR THE MANNER OF THEIR REMOVAL OR ADJUSTMENT. CONTRACTORS SHALL BE RESPONSIBLE FOR DETERMINING EXACT LOCATION OF ALL EXISTING UTILITIES AND FACILITIES PRIOR TO START OF CONSTRUCTION. CONTRACTORS SHALL ALSO OBTAIN FROM EACH UTILITY COMPANY DETAILED INFORMATION RELATIVE TO WORKING SCHEDULES AND METHODS OF REMOVING OR ADJUSTING EXISTING UTILITIES.
10. CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES, BOTH HORIZONTAL AND VERTICALLY, PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES OR DOUBTS AS TO THE INTERPRETATION OF PLANS SHOULD BE IMMEDIATELY REPORTED TO THE ARCHITECT / ENGINEER FOR RESOLUTION AND INSTRUCTION, AND NO FURTHER WORK SHALL BE PERFORMED UNTIL THE DISCREPANCY IS CHECKED AND CORRECTED BY THE ARCHITECT / ENGINEER. FAILURE TO SECURE SUCH INSTRUCTION MEANS CONTRACTOR WILL HAVE WORKED AT HIS/HER OWN RISK AND EXPENSE.
11. ALL NEW AND EXISTING UTILITY STRUCTURES ON SITE AND IN AREAS TO BE DISTURBED BY CONSTRUCTION SHALL BE ADJUSTED TO FINISH ELEVATIONS PRIOR TO FINAL INSPECTION OF WORK.
12. ANY DRAIN AND/OR FIELD TILE ENCOUNTERED / DISTURBED DURING CONSTRUCTION SHALL BE RETURNED TO IT'S ORIGINAL CONDITION PRIOR TO COMPLETION OF WORK. SIZE, LOCATION AND TYPE OF ANY UNDERGROUND UTILITIES OR IMPROVEMENTS SHALL BE ACCURATELY NOTED AND PLACED ON "AS-BUILT" DRAWINGS BY GENERAL CONTRACTOR, AND ISSUED TO THE ARCHITECT / ENGINEER AT COMPLETION OF PROJECT.
13. ALL TEMPORARY EXCAVATIONS FOR THE INSTALLATION OF FOUNDATIONS, UTILITIES, ETC., SHALL BE PROPERLY LAID BACK OR BRACED IN ACCORDANCE WITH CORRECT OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REQUIREMENTS.
14. INCLUDE MISC. ITEMS PER AT&T SPECIFICATIONS
15. 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
16. ALL (N) CABLING AND EQUIPMENT MUST BE INSTALLED AND USED IN ACCORDANCE WITH THE PRODUCT'S INCLUDED INSTRUCTIONS, LISTING AND/OR LABELING REQUIREMENTS. PER NEC SECTION 110.3(B)
17. 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.
18. PENETRATIONS SHALL BE FIRE-STOPPED AND OPENINGS SHALL BE PROTECTED THROUGH FIRE-RATED WALLS, FLOOR, ROOF AND CEILING ASSEMBLIES AS REQUIRED BY THE 20 18 IBC CHAPTER 7.
19. 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 BY J5 UNDER SEPARATE COVER.
20. ANTENNA MOUNT ANALYSIS IS NOT WITHIN THE SCOPE OF WORK CONTAINED IN THIS DRAWING SET. FOR ANALYSIS OF MOUNT TO SUPPORT PROPOSED COMPONENTS, REFER TO ANTENNA MOUNT STRUCTURAL ANALYSIS PROVIDED BY J5 UNDER SEPARATE COVER.
21. TOWER ANALYSIS TO BE CONDUCTED AND PROVIDED BY TOWER OWNER. FOR ANALYSIS OF EXISTING AND/OR PROPOSED COMPONENTS, REFER TO TOWER STRUCTURAL ANALYSIS UNDER SEPARATE COVER.

APPLICABLE CODES, REGULATIONS AND STANDARDS:

1. SUBCONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION.
2. THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.
3. SUBCONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:

3.1. AMERICAN CONCRETE INSTITUTE (ACI) 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
3.2. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), MANUAL OF STEEL CONSTRUCTION, LRFD, FOURTEENTH EDITION
3.3. TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA/EIA) 222-H, STRUCTURAL STANDARD FOR ANTENNA SUPPORTING STRUCTURES AND ANTENNAS
3.4. INSTITUTE FOR ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE) 81, GUIDE FOR MEASURING EARTH RESISTIVITY, GROUND IMPEDANCE, AND EARTH SURFACE POTENTIALS OF A GROUND SYSTEM IEEE 1100 (1999) RECOMMENDED PRACTICE FOR POWERING AND GROUNDING OF ELECTRICAL EQUIPMENT.
3.5. IEEE C62.41, RECOMMENDED PRACTICES ON SURGE VOLTAGES IN LOW VOLTAGE AC POWER CIRCUITS (FOR LOCATION CATEGORY "C3" AND "HIGH SYSTEM EXPOSURE")
3.6. TIA 607 COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS TELCORDIA GR-63 NETWORK
3.7. EQUIPMENT-BUILDING SYSTEM (NEBS): PHYSICAL PROTECTION
3.8. TELCORDIA GR-347 CENTRAL OFFICE POWER WIRING
3.9. TELCORDIA GR-1275 GENERAL INSTALLATION REQUIREMENTS
3.10. TELCORDIA GR-1503 COAXIAL CABLE CONNECTIONS
3.11. ANY AND ALL OTHER LOCAL & STATE LAWS AND REGULATIONS
3.12. FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND A SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.

ABBREVIATIONS:

A.B.	ANCHOR BOLT
ABV.	ABOVE
ACCA	ANTENNA CABLE COVER ASSEMBLY
ADD'L	ADDITIONAL
A.F.F.	ABOVE FINISHED FLOOR
A.F.G.	ABOVE FINISHED GRADE
ALUM.	ALUMINUM
ALT.	ALTERNATE
ANT.	ANTENNA
APPRX.	APPROXIMATE(LY)
ARCH.	ARCHITECT(URAL)
AWG.	AMERICAN WIRE GAUGE
BLDG.	BUILDING
BLK.	BLOCK
BLKG.	BLOCKING
BM.	BEAM
B.N.	BOUNDARY NAILING
BTCW.	BARE TINNED COPPER WIRE
B.O.F.	BOTTOM OF FOOTING
B/U	BACK-UP CABINET
CAB.	CABINET
CANT.	CANTILEVER(ED)
C.I.P.	CAST IN PLACE
CLG.	CEILING
CLR.	CLEAR
COL.	COLUMN
CONC.	CONCRETE
CONN.	CONNECTION(OR)
CONST.	CONSTRUCTION
CONT.	CONTINUOUS
d	PENNY (NAILS)
DBL.	DOUBLE
DEPT.	DEPARTMENT
D.F.	DOUGLAS FIR
DIA.	DIAMETER
DIAG.	DIAGONAL
DIM.	DIMENSION
DWG.	DRAWING(S)
DWL.	DOWEL(S)
EA.	EACH
EL.	ELEVATION
ELEC.	ELECTRICAL
ELEV.	ELEVATOR
EMT.	ELECTRICAL METALLIC TUBING
E.N.	EDGE NAIL
ENG.	ENGINEER
EQ.	EQUAL
EXP.	EXPANSION
EXST.(E)	EXISTING
EXT.	EXTERIOR
FAB.	FABRICATION(OR)
F.F.	FINISH FLOOR
F.G.	FINISH GRADE
FIN.	FINISH(ED)
FLR.	FLOOR
FDN.	FOUNDATION
F.O.C.	FACE OF CONCRETE
F.O.M.	FACE OF MASONRY
F.O.S.	FACE OF STUD
F.O.W.	FACE OF WALL
F.S.	FINISH SURFACE
FT.(')	FOOT (FEET)
FTG.	FOOTING
G.	GROWTH (CABINET)
GA.	GAUGE
GI.	GALVANIZE(D)
G.F.I.	GROUND FAULT CIRCUIT INTERRUPTER
GLB. (GLU-LAM)	GLUE LAMINATED BEAM
GPS	GLOBAL POSITIONING SYSTEM
GRND.	GROUND
HDR.	HEADER
HGR.	HANGER
HT.	HEIGHT
ICGB.	ISOLATED COPPER GROUND BUS
IN. (")	INCH(ES)
INT.	INTERIOR
LB.(#)	POUND(S)
L.B.	LAG BOLTS
L.F.	LINEAR FEET (FOOT)
L.	LONG(ITUDINAL)
MAS.	MASONRY
MAX.	MAXIMUM
M.B.	MACHINE BOLT
MECH.	MECHANICAL
MFR.	MANUFACTURER
MIN.	MINIMUM
MISC.	MISCELLANEOUS
MTL.	METAL
(N)	NEW
NO.(#)	NUMBER
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
OPNG.	OPENING
P/C	PRECAST CONCRETE
PCS	PERSONAL COMMUNICATION SERVICES
PLY.	PLYWOOD
PPC	POWER PROTECTION CABINET
PRC	PRIMARY RADIO CABINET
P.S.F.	POUNDS PER SQUARE FOOT
P.S.I.	POUNDS PER SQUARE INCH
P.T.	PRESSURE TREATED
PWR.	POWER (CABINET)
QTY.	QUANTITY
RAD.(R)	RADIUS
REF.	REFERENCE
REINF.	REINFORCEMENT(ING)
REQ'D/	REQUIRED
RGS.	RIGID GALVANIZED STEEL
SCH.	SCHEDULE
SHT.	SHEET
SIM.	SIMILAR
SPEC.	SPECIFICATIONS
SQ.	SQUARE
S.S.	STAINLESS STEEL
STD.	STANDARD
STL.	STEEL
STRUC.	STRUCTURAL
TEMP.	TEMPORARY
THK.	THICK(NESS)
T.N.	TOE NAIL
T.O.A.	TOP OF ANTENNA
T.O.C.	TOP OF CURB
T.O.F.	TOP OF FOUNDATION
T.O.P.	TOP OF PLATE (PARAPET)
T.O.S.	TOP OF STEEL
T.O.W.	TOP OF WALL
TYP.	TYPICAL
U.G.	UNDER GROUND
U.L.	UNDERWRITERS LABORATORY
U.N.O.	UNLESS NOTED OTHERWISE
V.I.F.	VERIFY IN FIELD
W	WIDE (WIDTH)
w/	WITH
WD.	WOOD
W.P.	WEATHERPROOF
WT.	WEIGHT
℄	CENTERLINE
℘	PLATE, PROPERTY LINE

SYMBOLS LEGEND:

PREPARED FOR

AT&T

NEW CINGULAR WIRELESS PCS, LLC ("AT&T")
19801 SW 72ND AVE., STE. 200
TUALATIN, OR 97062

Vendor:

J5 INFRASTRUCTURE PARTNERS

23 MAUCHLY #110
IRVINE, CA 92618

J5 PROJECT ID: P-068910

Issued For:

OL0734
OLYMPIA MISSION CREEK

1818 4TH AVENUE EAST
OLYMPIA, WA 98506
PARCEL ID: 80800400300

DRAWN BY: JBE

CHECKED BY:

REV	DATE	DESCRIPTION
A	11/07/22	90% CD

Licensor:

Sheet Title:

GENERAL NOTES

Sheet Number:

GN-1

SITE WORK GENERAL NOTES:

1. THE SUBCONTRACTOR SHALL CONTRACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
2. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY CONTRACTOR. EXTREME CAUTION SHOULD BE USED BY THE SUBCONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES, SUBCONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO A.) FALL PROTECTION B.) CONFINED SPACE C.) ELECTRICAL SAFETY D.) TRENCHING AND EXCAVATION.
3. ALL SITE WORK SHALL BE AS INDICATED ON THE STAMPED CONSTRUCTION DRAWINGS AND PROJECT SPECIFICATIONS.
4. IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES, AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
5. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED, OR OTHERWISE DISCONNECTED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF CONTRACTOR, OWNER, AND/OR LOCAL UTILITIES.
6. THE SUBCONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATION FOR SITE SIGNAGE.
7. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE BTS EQUIPMENT AND TOWER AREAS.
8. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW, OR ICE SHALL BE PLACED IN ANY FILL OR EMBANKMENT.
9. THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
10. THE AREAS OF THE OWNERS PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT, OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE AND STABILIZED TO PREVENT EROSION AS SPECIFIED ON THE PROJECT SPECIFICATIONS.
11. SUBCONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.
12. NOTICE TO PROCEED - NO WORK TO COMMENCE PRIOR TO COMPANY'S WRITTEN NOTICE TO PROCEED AND THE ISSUANCE OF A PURCHASE ORDER.
13. ALL CONSTRUCTION MEANS AND METHODS: INCLUDING BUT NOT LIMITED TO, ERECTION PLANS, RIGGING PLANS, CLIMBING PLANS, AND RESCUE PLANS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR RESPONSIBLE FOR THE EXECUTION OF THE WORK CONTAINED HEREIN AND SHALL ADHERE TO ANSI/TIA-1019 (LATEST EDITION) INCLUDING THE REQUIRED INVOLVEMENT OF A QUALIFIED ENGINEER FOR CLASS IV CONSTRUCTION.

GENERAL NOTES:

1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:

   CONTRACTOR - J5 INFRASTRUCTURE PARTNERS
   SUBCONTRACTOR - GENERAL CONTRACTOR (CONSTRUCTION)
   CARRIER - AT&T
   OEM - ORIGINAL EQUIPMENT MANUFACTURER
2. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING SUBCONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE THEMSELVES, WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR AND AT&T
3. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. SUBCONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS, AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
4. DRAWINGS PROVIDED HERE ARE NOT TO SCALE AND ARE INTENDED TO SHOW OUTLINE ONLY.
5. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
6. 'KITTING LIST' SUPPLIED WITH THE BID PACKAGE IDENTIFIES ITEMS THAT WILL BE SUPPLIED BY CONTRACTOR. ITEMS NOT INCLUDED IN THE BILL OF MATERIALS AND KITTING LIST SHALL BE SUPPLIED BY THE SUBCONTRACTOR.
7. THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
8. IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS. THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE CONTRACTOR AND AT&T PRIOR TO PROCEEDING WITH ANY SUCH CHANGE OF INSTALLATION.
9. SUBCONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER AND T1 CABLES, GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TELCO PLAN DRAWINGS.
10. THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT THE SUBCONTRACTOR'S EXPENSE; TO THE SATISFACTION OF THE OWNER.
11. SUBCONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
12. SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION, TRASH AND DEBRIS SHOULD BE REMOVED FROM SITE ON A DAILY BASIS.

CONCRETE AND REINFORCING STEEL NOTES:

1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 336, ASTM A184, ASTM A185, AND THE DESIGN AND CONSTRUCTION SPECIFICATION FOR CAST-IN-PLACE CONCRETE.
2. ALL CONCRETE SHALL HAVE A MINIMUM COMPESSIVE STRENGTH OF 2,500 PSI AT 28 DAYS, UNLESS NOTED OTHERWISE. SLAB FOUNDATION DESIGN ASSUMING ALLOWABLE SOIL BEARING PRESSURE OF 2000 PSF.
3. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, DEFORMED UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185 WELDED STEEL WIRE FABRIC UNLESS NOTED OTHERWISE. SPLICES SHALL BE CLASS "B" AND ALL HOOKS SHALL BE STANDARD. UNO.
4. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS.

   4.1. CONCRETE CAST AGAINST EARTH: 3" MIN.
   4.2. CONCRETE EXPOSED TO WEATHER:
   4.2.1. #6 AND LARGER - 2" MIN.
   4.2.2. #5 AND SMALLER & WWF. - 1 1/2" MIN.
   4.3. CONCRETE NOT EXPOSED TO WEATHER OR NOT CAST AGAINST THE GROUND:
   4.3.1. SLAB AND WALLS 3/4" MIN.
   4.3.2. BEAMS AND COLUMNS 1 1/2" MIN.
5. A 3/4" CHAMFER SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNLESS NOTED OTHERWISE, IN ACCORDANCE WITH ACI 301 SECTION 4.2.4

PREPARED FOR

AT&T

NEW CINGULAR WIRELESS PCS, LLC ("AT&T")
19801 SW 72ND AVE., STE. 200
TUALATIN, OR 97062

Vendor:

J5 INFRASTRUCTURE PARTNERS

23 MAUCHLY #110
IRVINE, CA 92618

J5 PROJECT ID: P-068910

Issued For:

OL0734
OLYMPIA MISSION CREEK

1818 4TH AVENUE EAST
OLYMPIA, WA 98506
PARCEL ID: 80800400300

DRAWN BY: JBE

CHECKED BY:

REV	DATE	DESCRIPTION
A	11/07/22	90% CD

Licensor:

Sheet Title:
GENERAL NOTES

Sheet Number:
GN-2

AT&T

This Site Operated by:

AT&T MOBILITY

AT&T MOBILITY 19801 SW 72ND AVE., TUALATIN, OR 97062
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) 638-2822

Reference Site#: OL0734

Site Address: 1818 4TH AVENUE EAST OLYMPIA, WA 98506

10 FENCED COMPOUND SIGNAGE
N.T.S.

DANGER

NO TRESPASSING

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).

8" × 12"

9 FENCED COMPOUND SIGNAGE
N.T.S.

6 FCC ASR SIGNAGE
N.T.S.

NOTICE

AUTHORIZED PERSONNEL ONLY

Property of AT&T

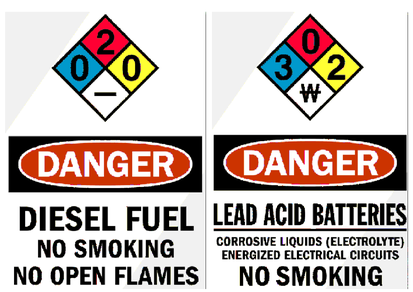
Authorized Personnel Only

No Trespassing
Violators will be Prosecuted

In case of emergency, or prior to performing maintenance on this site, call _____
and reference cell site number _____

8 DOOR / EQUIPMENT SIGN
N.T.S.

5 GATE SIGNAGE
N.T.S.



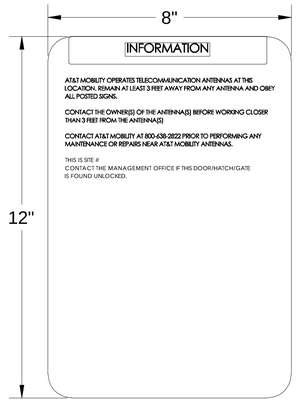
7 NFPA HAZARD SIGN - TYPICAL
N.T.S.

Property of AT&T

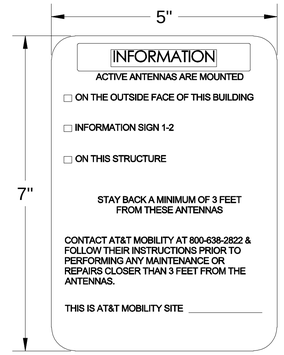
Authorized Personnel Only

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.

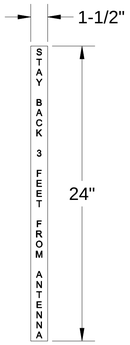


A INFORMATION SIGN 1-1
SCALE: 1/2"= 1'



B INFORMATION SIGN 1-2
SCALE: 3/4" = 1'

C INFORMATION SIGN 1-3
SCALE: 1/4" = 1'



D INFORMATION SIGN 1-4
SCALE: 3/16" = 1'

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 I-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) ¼ 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 ⅛ 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.

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/ ⅛ 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 ½ INCH LETTERING IN A VERTICAL COLUMN. THE SPACING BETWEEN WORDS MUST BE SUCH THAT IT IS EASILY READ & FILLS THE LENGTH OF THE SIGN.

3 INFORMATION SIGNAGE
N.T.S.

NOTE:
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. CONTRACTOR SHALL CONTACT AT&T R-RFSC FOR INFORMATION ON MPE LEVELS AND INSTRUCTIONS ON LEVEL AND LOCATION OF SIGNAGE

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 #CADFT-AL-05.7 This is AT&T site 319980

2 CAUTION SIGN
N.T.S.

SIGNAGE AND STRIPING INFORMATION

1. THE FOLLOWING INFORMATION IS A GUIDELINE w/ RESPECT TO PREVAILING 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.
2. THE PUBLIC LIMIT OF RF EXPOSURE ALLOWED BY AT&T IS 1mWcm*2 AND THE OCCUPATIONAL LIMIT OF RF EXPOSURE ALLOWED BY AT&T IS 5mWcm*2
3. 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.
4. 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.
5. 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 PLACED AROUND THE ANTENNAS. THE EXACT EXTENT OF THE BARRICADES & 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.
6. 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.
7. 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 RESTRAINT 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

AT&T

NEW CINGULAR WIRELESS PCS, LLC ("AT&T")
19801 SW 72ND AVE., STE. 200
TUALATIN, OR 97062

Vendor:

J5 INFRASTRUCTURE PARTNERS

23 MAUCHLY #110
IRVINE, CA 92618

J5 PROJECT ID: P-068910

Issued For:

OL0734
OLYMPIA MISSION CREEK

1818 4TH AVENUE EAST
OLYMPIA, WA 98506
PARCEL ID: 80800400300

DRAWN BY: JBE

CHECKED BY:

REV	DATE	DESCRIPTION
A	11/07/22	90% CD

Licensor:

Sheet Title:
SITE SIGNAGE

Sheet Number:
GN-3

Attachment 7

EnerSys Power/Full Solutions — SAFETY DATA SHEET — HAWKER

Form #: SDS 853026
Revised: AB
Supersedes: AA (06-16-16)
ECO #: 1001828

I. PRODUCT IDENTIFICATION

Chemical Trade Name (as used on label):
Aerospace and defense batteries manufactured using factory modified versions of Cyclon®, Genesis®, SBS, XE®, Armasafe Plus®, or Large TPPL.

Chemical Family/Classification:
Sealed Lead Battery

Synonyms:
Sealed Lead Acid Battery, VRLA Battery

Telephone:
For information and emergencies, contact EnerSys Energy Products Environmental, Health & Safety Dept. at 660-429-2165

Manufacturer's Name/Address:
EnerSys Energy Products Inc. (formerly Hawker Energy Products Inc.)
617 N. Ridgeview Drive
Warrensburg, MO 64093-9301

24-Hour Emergency Response Contact:
CHEMTREC DOMESTIC: 800-424-9300 CHEMTREC INTL: 703-527-3877

II GHS HAZARDS IDENTIFICATION

HEALTH		ENVIRONMENTAL	PHYSICAL
Acute Toxicity (Oral/Dermal/Inhalation)	Category 4	Aquatic Chronic 1	Explosive Chemical, Division 1.3
Skin Corrosion/Irritation	Category 1A	Aquatic Acute 1	
Eye Damage	Category 1		
Reproductive	Category 1A		
Carcinogenicity (lead compounds)	Category 1B		
Carcinogenicity (acid mist)	Category 1A		
Specific Target Organ Toxicity (repeated exposure)	Category 2		

GHS LABEL:

HEALTH | ENVIRONMENTAL | PHYSICAL

Hazard Statements
DANGER!
Causes severe skin burns and serious eye damage.
May damage fertility or the unborn child if ingested or inhaled.
May cause cancer if ingested or inhaled.
Causes damage to central nervous system, blood and kidneys through prolonged or repeated exposure.
May form explosive air/gas mixture during charging.
Extremely flammable gas (hydrogen).
Explosive, fire, blast, or projection hazard.
May cause harm to breast-fed children
Harmful if swallowed, inhaled, or contact with skin
Causes skin irritation, serious eye damage.

Precautionary Statements
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Wear protective gloves/protective clothing, eye protection/face protection.
Avoid breathing dust/fume/gas/mist/vapors/spray.
Use only outdoors or in a well-ventilated area.
Contact with internal components may cause irritation or severe burns. Avoid contact with internal acid.
Irritating to eyes, respiratory system, and skin.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood
Avoid contact during pregnancy/while nursing
Keep away from heat./sparks/open flames/hot surfaces. No smoking

III. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	Approximate % by Weight
Inorganic Lead Compound:		
Lead	7439-92-1	45 - 60
Lead Dioxide	1309-60-0	15 - 25
Tin	7440-31-5	0.1 - 0.2
Sulfuric Acid Electrolyte (Sulfuric Acid/Water)	7664-93-9	15 - 20
Case Material:		5 - 10
Polypropylene	9003-07-0	
Polystyrene	9003-53-6	
Styrene Acrylonitrile	9003-54-7	
Acrylonitrile Butadiene Styrene	9003-56-9	
Styrene Butadiene	9003-55-8	
Polyvinylchloride	9002-86-2	
Polycarbonate, Hard Rubber, Polyethylene	9002-88-4	
Polyphenylene Oxide	25134-01-4	
Polycarbonate/Polyester Alloy	--	
Other:		
Absorbent Glass Mat	--	1 - 2

EnerSys Power/Full Solutions — SAFETY DATA SHEET — HAWKER
Form #: SDS 853026 Revised: AB Supersedes: AA (06-16-16) ECO #: 1001828

Inorganic lead and sulfuric acid electrolyte are the primary components of every battery manufactured by EnerSys Energy Products.
There are no mercury or cadmium containing products present in batteries manufactured by EnerSys Energy Products.

IV. FIRST AID MEASURES

Inhalation:
Sulfuric Acid: Remove to fresh air immediately. If breathing is difficult, give oxygen. Consult a physician
Lead: Remove from exposure, gargle, wash nose and lips; consult physician.

Ingestion:
Sulfuric Acid: Give large quantities of water, do not induce vomiting or aspiration into the lungs may occur and can cause permanent injury or death; consult a physician.
Lead: Consult physician immediately.

Skin:
Sulfuric Acid: Flush with large amounts of water for at least 15 minutes; remove contaminated clothing completely, including shoes. If symptoms persist, seek medical attention. Wash contaminated clothing before reuse. Discard contaminated shoes.
Lead: Wash immediately with soap and water.

Eyes:
Sulfuric Acid and Lead: Flush immediately with large amounts of water for at least 15 minutes while lifting lids. Seek immediate medical attention if eyes have been exposed directly to acid.

V. FIRE FIGHTING MEASURES

Flash Point: N/A | **Flammable Limits:** LEL = 4.1% (Hydrogen Gas) UEL = 74.2% (Hydrogen Gas)

Extinguishing Media: Carbon dioxide; foam; dry chemical. Avoid breathing vapors. Use appropriate media for surrounding fire.

Special Fire Fighting Procedures:
If batteries are on charge, shut off power. Use positive pressure, self-contained breathing apparatus. Water applied to electrolyte generates heat and causes it to spatter. Wear acid-resistant clothing, gloves, face and eye protection.
Note that strings of series connected batteries may still pose risk of electric shock even when charging equipment is shut down.

Unusual Fire and Explosion Hazards:
Highly flammable hydrogen gas is generated during charging and operation of batteries. To avoid risk of fire or explosion, keep sparks or other sources of ignition away from batteries. Do not allow metallic materials to simultaneously contact negative and positive terminals of cells and batteries. Follow manufacturer's instructions for installation and service.

VI. ACCIDENTAL RELEASE MEASURES

Spill or Leak Procedures:
Stop flow of material, contain/absorb small spills with dry sand, earth, and vermiculite. Do not use combustible materials. If possible, carefully neutralize spilled electrolyte with soda ash, sodium bicarbonate, lime, etc. Wear acid-resistant clothing, boots, gloves, and face shield. Do not allow discharge of unneutralized acid to sewer. Acid must be managed in accordance with local, state, and federal requirements.
Consult state environmental agency and/or federal EPA.

VII. HANDLING AND STORAGE

Handling:
Unless involved in recycling operations, do not breach the casing or empty the contents of the battery.
There may be increasing risk of electric shock from strings of connected batteries.
Keep containers tightly closed when not in use. If battery case is broken, avoid contact with internal components.
Keep vent caps on and cover terminals to prevent short circuits. Place cardboard between layers of stacked automotive batteries to avoid damage and short circuits.
Keep away from combustible materials, organic chemicals, reducing substances, metals, strong oxidizers and water. Use banding or stretch wrap to secure items for shipping.

Storage:
Store batteries in cool, dry, well-ventilated areas with impervious surfaces and adequate containment in the event of spills. Batteries should also be stored under roof for protection against adverse weather conditions. Separate from incompatible materials. Store and handle only in areas with adequate water supply and spill control. Avoid damage to containers. Keep away from fire, sparks and heat. Keep away from metallic objects which could bridge the terminals on a battery and create a dangerous short-circuit.

Charging:
There is a possible risk of electric shock from charging equipment and from strings of series connected batteries, whether or not being charged. Shut-off power to chargers whenever not in use and before detachment of any circuit connections. Batteries being charged will generate and release flammable hydrogen gas. Charging space should be ventilated. Keep battery vent caps in position. Prohibit smoking and avoid creation of flames and sparks nearby.
Wear face and eye protection when near batteries being charged.

EnerSys Power/Full Solutions — SAFETY DATA SHEET — HAWKER
Form #: SDS 853026 Revised: AB Supersedes: AA (06-16-16) ECO #: 1001828

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits (mg/m3) Note: N.E.= Not Established

INGREDIENTS (Chemical/Common Names)	OSHA PEL	ACGIH	US NIOSH	Quebec PEV	Ontario OEL	EU OEL
Lead and Lead Compounds (inorganic)	0.05	0.05	0.05	0.05	0.05	0.15 (b)
Tin	2	2	2	2	2	N.E
Sulfuric Acid Electrolyte	1	0.2	1	1	0.2	0.05 (c)
Polypropylene	N.E	N.E	N.E	N.E	N.E	N.E
Polystyrene	N.E	N.E	N.E	N.E	N.E	N.E
Styrene Acrylonitrile	N.E	N.E	N.E	N.E	N.E	N.E
Acrylonitrile Butadiene Styrene	N.E	N.E	N.E	N.E	N.E	N.E
Styrene Butadiene	N.E	N.E	N.E	N.E	N.E	N.E
Polyvinylchloride	N.E	N.E	N.E	N.E	1	N.E
Polycarbonate, Hard Rubber, Polyethylene	N.E	N.E	N.E	N.E	N.E	N.E
Polyphenylene Oxide	N.E	N.E	N.E	N.E	N.E	N.E
Polycarbonate/Polyester Alloy Rubber, Polyethylene	N.E	N.E	N.E	N.E	N.E	N.E
Absorbent Glass Mat	N.E	N.E	N.E	N.E	N.E	N.E

NOTES:
(b) As inhalable aerosol
(c) Thoracic fraction

Engineering Controls (Ventilation):
Store and handle in well-ventilated area. If mechanical ventilation is used, components must be acid-resistant.
Handle batteries cautiously to avoid spills. Make certain vent caps are on securely. Avoid contact with internal components. Wear protective clothing, eye and face protection when filling, charging or handling batteries. Do not allow metallic materials to simultaneously contact both the positive and negative terminals of the batteries. Charge the batteries in areas with adequate ventilation. General dilution ventilation is acceptable.

Respiratory Protection (NIOSH/MSHA approved):
None required under normal conditions. When concentrations of sulfuric acid mist are known to exceed the PEL, use NIOSH or MSHA-approved respiratory protection.

Skin Protection:
If battery case is damaged, use rubber or plastic acid-resistant gloves with elbow-length gauntlet, acid-resistant apron, clothing and boots.

Eye Protection:
If battery case is damaged, use chemical goggles or face shield.

Other Protection:
Under severe exposure emergency conditions, wear acid-resistant clothing and boots.

IX. PHYSICAL AND CHEMICAL PROPERTIES

Properties Listed Below are for Electrolyte:

Boiling Point:	203 - 240° F	Specific Gravity (H2O = 1):	1.215 to 1.350
Melting Point:	N/A	Vapor Pressure (mm Hg):	10
Solubility in Water:	100%	Vapor Density (AIR = 1):	Greater than 1
Evaporation Rate: (Butyl Acetate = 1)	Less than 1	% Volatile by Weight:	N/A
pH:	~1 to 2	Flash Point:	Below room temperature (as hydrogen gas)
LEL (Lower Explosive Limit)	4.1% (Hydrogen)	UEL (Upper Explosive Limit)	74.2% (Hydrogen)
Appearance and Odor:	Manufactured article; no apparent odor. Electrolyte is a clear liquid with a sharp, penetrating, pungent odor.		

EnerSys Power/Full Solutions — SAFETY DATA SHEET — HAWKER
Form #: SDS 853026 Revised: AB Supersedes: AA (06-16-16) ECO #: 1001828

X. STABILITY AND REACTIVITY

Stability: Stable X_ Unstable ___
This product is stable under normal conditions at ambient temperature.
Conditions To Avoid: Prolonged overcharge; sources of ignition

Incompatibility: (Materials to avoid)
Sulfuric Acid: Contact with combustibles and organic materials may cause fire and explosion. Also reacts violently with strong reducing agents, metals, sulfur trioxide gas, strong oxidizers and water. Contact with metals may produce toxic sulfur dioxide fumes and may release flammable hydrogen gas.
Lead Compounds: Avoid contact with strong acids, bases, halides, halogenates, potassium nitrate, permanganate, peroxides, nascent hydrogen and reducing agents.

Hazardous Decomposition Products:
Sulfuric Acid: Sulfur trioxide, carbon monoxide, sulfuric acid mist, sulfur dioxide, and hydrogen sulfide.
Lead Compounds: High temperatures likely to produce toxic metal fume, vapor, or dust; contact with strong acid or base or presence of nascent hydrogen may generate highly toxic arsine gas.

Hazardous Polymerization:
Will not occur

XI. TOXICOLOGICAL INFORMATION

Routes of Entry:
Sulfuric Acid: Harmful by all routes of entry.
Lead Compounds: Hazardous exposure can occur only when product is heated, oxidized or otherwise processed or damaged to create dust, vapor or fume. The presence of nascent hydrogen may generate highly toxic arsine gas.

Inhalation:
Sulfuric Acid: Breathing of sulfuric acid vapors or mists may cause severe respiratory irritation.
Lead Compounds: Inhalation of lead dust or fumes may cause irritation of upper respiratory tract and lungs.

Ingestion:
Sulfuric Acid: May cause severe irritation of mouth, throat, esophagus and stomach.
Lead Compounds: Acute ingestion may cause abdominal pain, nausea, vomiting, diarrhea and severe cramping. This may lead rapidly to systemic toxicity and must be treated by a physician.

Skin Contact:
Sulfuric Acid: Severe irritation, burns and ulceration.
Lead Compounds: Not absorbed through the skin.

Eye Contact:
Sulfuric Acid: Severe irritation , burns, cornea damage, and blindness.
Lead Components: May cause eye irritation.

Effects of Overexposure - Acute:
Sulfuric Acid: Severe skin irritation, damage to cornea, upper respiratory irritation.
Lead Compounds: Symptoms of toxicity include headache, fatigue, abdominal pain, loss of appetite, muscle aches and weakness, sleep disturbances and irritability.

Effects of Overexposure - Chronic:
Sulfuric Acid: Possible erosion of tooth enamel, inflammation of nose, throat and bronchial tubes.
Lead Compounds: Anemia; neuropathy, particularly of the motor nerves, with wrist drop; kidney damage; reproductive changes in males and females. Repeated exposure to lead and lead compounds in the workplace may result in nervous system toxicity. Some toxicologists report abnormal conduction velocities in persons with blood lead levels of 50mcg/100 ml or higher. Heavy lead exposure may result in central nervous system damage, encephalopathy and damage to the blood-forming (hematopoietic) tissues.

Carcinogenicity:
Sulfuric Acid: The International Agency for Research on Cancer (IARC) has classified "strong inorganic acid mist containing sulfuric acid" as a Group 1 carcinogen, a substance that is carcinogenic to humans. This classification does not apply to liquid forms of sulfuric acid or sulfuric acid solutions contained within a battery. Inorganic acid mist (sulfuric acid mist) is not generated under normal use of this product. Misuse of the product, such as overcharging, may result in the generation of sulfuric acid mist.
Lead Compounds: Lead is listed as a Group 2A carcinogen, likely in animals at extreme doses. Per the guidance found in OSHA 29 CFR 1910.1200 Appendix F, this is approximately equivalent to GHS Category 1B. Proof of carcinogenicity in humans is lacking at present.

Medical Conditions Generally Aggravated by Exposure:
Overexposure to sulfuric acid mist may cause lung damage and aggravate pulmonary conditions. Contact of sulfuric acid with skin may aggravate diseases such as eczema and contact dermatitis. Lead and its compounds can aggravate some forms of kidney, liver and neurologic diseases.

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Acute Toxicity:
Inhalation LD50:
Electrolyte: LC50 rat: 375 mg/m3; LC50: guinea pig: 510 mg/m3
Elemental Lead: Acute Toxicity Point Estimate = 4500 ppmV (based on lead bullion)

Oral LD50:
Electrolyte: rat: 2140 mg/kg
Elemental Lead: Acute Toxicity Estimate (ATE) = 500 mg/kg body weight (based on lead bullion)

Additional Health Data:
All heavy metals, including the hazardous ingredients in this product, are taken into the body primarily by inhalation and ingestion.
Most inhalation problems can be avoided by adequate precautions such as ventilation and respiratory protection covered in Section 8.
Follow good personal hygiene to avoid inhalation and ingestion: wash hands, face, neck and arms thoroughly before eating, smoking or leaving the worksite. Keep contaminated clothing out of non-contaminated areas, or wear cover clothing when in such areas. Restrict the use and presence of food, tobacco and cosmetics to non-contaminated areas. Work clothes and work equipment used in contaminated areas must remain in designated areas and never taken home or laundered with personal non-contaminated clothing. This product is intended for industrial use only and should be isolated from children and their environment.

The 19th Amendment to EC Directive 67/548/EEC classified lead compounds, but not lead in metal form, as possibly toxic to reproduction.
Risk phrase 61: May cause harm to the unborn child, applies to lead compounds, especially soluble forms.

XII. ECOLOGICAL INFORMATION

Environmental Fate:
Lead is very persistent in soil and sediments. No data on environmental degradation. Mobility of metallic lead between ecological compartments is slow. Bioaccumulation of lead occurs in aquatic and terrestrial animals and plants but little bioaccumulation occurs through the food chain.
Most studies include lead compounds and not elemental lead.

Environmental Toxicity: Aquatic Toxicity:
Sulfuric acid: 24-hr LC50, freshwater fish (Brachydanio rerio): 82 mg/L
96 hr- LOEC, freshwater fish (Cyprinus carpio): 22 mg/L
Lead: 48 hr LC50 (modeled for aquatic invertebrates): <1 mg/L, based on lead bullion

Additional Information:
- No known effects on stratospheric ozone depletion.
- Volatile organic compounds: 0% (by Volume)
- Water Endangering Class (WGK): NA

XIII. DISPOSAL CONSIDERATIONS (UNITED STATES)

Spent batteries: Send to secondary lead smelter for recycling. Spent lead-acid batteries are not regulated as hazardous waste when the requirements of 40 CFR Section 266.80 are met. This should be managed in accordance with approved local, state and federal requirements. Consult state environmental agency and/or federal EPA.

Electrolyte:
Place neutralized slurry into sealed containers and handle as applicable with state and federal regulations. Large water-diluted spills, after neutralization and testing, should be managed in accordance with approved local, state and federal requirements. Consult state environmental agency and/or federal EPA.

Following local, State/Provincial, and Federal/National regulations applicable to end-of-life characteristics will be the responsibility of the end-user.

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XIV. TRANSPORT INFORMATION

U.S. DOT:
Excepted from the hazardous materials regulations (HMR) because the batteries meet the requirements of 49 CFR 173.159(f) and 49 CFR 173.159a of the U.S. Department of Transportation's HMR. Battery and outer package must be marked "NONSPILLABLE" or "NONSPILLABLE BATTERY" Battery terminals must be protected against short circuits.

IATA Dangerous Goods Regulations DGR:
Excepted from the dangerous goods regulations because the batteries meet the requirements of Packing Instruction 872 and Special Provisions A67 of the International Air Transportation Association (IATA) Dangerous goods Regulations and International Civil Aviation Organization (ICAO) Technical Instructions. Battery Terminals must be protected against short circuits.

The words "NOT RESTRICTED", SPECIAL PROVISION A67" must be provided when the air waybill is issued.

IMDG:
Excepted from the dangerous goods regulations for transport by sea because the batteries meet the requirements of Special Provision 238 of the International Maritime Dangerous Goods(IMDG CODE). Battery terminals must be protected against short circuits.

Requirements for Safe Shipping and Handling of Cyclon Cells:
Warning – Electrical Fire Hazard – Protect against shorting. Terminals can short and cause a fire if not insulated during shipping. Cyclon product must be labeled "NONSPILLABLE" during shipping. Follow all federal shipping regulations. See section IX of this sheet and CFR 49 Parts 171 through 180, available online at wwww.gpoaccess.gov.

Requirements for Shipping Cyclon Product as Single Cells:
Protective caps or other durable inert material must be used to insulate each terminal of each cell unless cells are shipping in the original packaging from EnerSys, in full box quantities. Protective caps are available for all cell sizes by contacting EnerSys Customer Service at 1-800-964-2837.

Requirements for Shipping Cyclon Product Assembled Into Multicell Batteries:
Assembled batteries must have short circuit protection during shipping. Exposed terminals, connectors, or lead wires must be insulated with a durable inert material to prevent exposure during shipping.

XV. REGULATORY INFORMATION

UNITED STATES:
EPA SARA Title III:

Section 302 EPCRA Extremely Hazardous Substances (EHS):
Sulfuric acid is a listed "Extremely Hazardous Substance" under EPCRA, with a Threshold Planning Quantity (TPQ) of 1,000 lbs.
EPCRA Section 302 notification is required if 1000 lbs or more of sulfuric acid is present at one site (40 CFR 370.10). For more information consult 40 CFR Part 355. The quantity of sulfuric acid will vary by battery type. Contact your EnerSys representative for additional information.

Section 304 CERCLA Hazardous Substances:
Reportable Quantity (RQ) for spilled 100% sulfuric acid under CERCLA (Superfund) and EPCRA (Emergency Planning and Community Right to Know Act) is 1,000 lbs. State and local reportable quantities for spilled sulfuric acid may vary.

Section 311/312 Hazard Categorization:
EPCRA Section 312 Tier Two reporting is required for non-automotive batteries if sulfuric acid is present in quantities of 500 lbs or more and/or if lead is present in quantities of 10,000 lbs or more. For more information consult 40 CFR 370.10 and 40 CFR 370.40.

Section 313 EPCRA Toxic Substances:
40 CFR section 372.38 (b) states: If a toxic chemical is present in an article at a covered facility, a person is not required to consider the quantity of the toxic chemical present in such article when determining whether an applicable threshold has been met under § 372.25, § 372.27, or § 372.28 or determining the amount of release to be reported under § 372.30. This exemption applies whether the person received the article from another person or the person produced the article. However, this exemption applies only to the quantity of the toxic chemical present in the article.

Supplier Notification:
This product contains toxic chemicals, which may be reportable under EPCRA Section 313 Toxic Chemical Release Inventory (Form R) requirements.
If you are a manufacturing facility under SIC codes 20 through 39, the following information is provided to enable you to complete the required reports:

Toxic Chemical	CAS Number	Approximate % by Wt.
Lead	7439-92-1	45 - 60
Sulfuric Acid Electrolyte (Sulfuric Acid/Water)	7664-93-9	15 - 20
Tin	7440-31-5	0.1 - 0.2

See 40 CFR Part 370 for more details.

If you distribute this product to other manufacturers in SIC Codes 20 through 39, this information must be provided with the first shipment of each calendar year.

The Section 313 supplier notification requirement does not apply to batteries, which are "consumer products".

NOTE:
1. FOR INFORMATION PURPOSES ONLY.

PREPARED FOR
AT&T
NEW CINGULAR WIRELESS PCS, LLC ("AT&T")
19801 SW 72ND AVE., STE. 200
TUALATIN, OR 97062

Vendor:
J5 INFRASTRUCTURE PARTNERS
23 MAUCHLY #110
IRVINE, CA 92618
J5 PROJECT ID: P-068910

Issued For:
OL0734
OLYMPIA MISSION CREEK
1818 4TH AVENUE EAST
OLYMPIA, WA 98506
PARCEL ID: 80800400300

DRAWN BY: JBE
CHECKED BY:

REV	DATE	DESCRIPTION
A	11/07/22	90% CD

Licensor:

Sheet Title:
MATERIAL SAFETY DATA SHEET & LEAD ACID BATTERY -1

Sheet Number:
GN-4

NOTE:
1. FOR INFORMATION PURPOSES ONLY.

EnerSys. Powering Full Solutions

SAFETY DATA SHEET

HAWKER

Form #: SDS 853026
Revised: AB
Supersedes: AA (06-15-16)
ECO #: 1001028

TSCA:

TSCA Section 8b – Inventory Status: All chemicals comprising this product are either exempt or listed on the TSCA Inventory.

TSCA Section 12b (40 CFR Part 707.60(b)) No notice of export will be required for articles, except PCB articles, unless the Agency so requires in the context of individual section 5, 6, or 7 actions.

TSCA Section 13 (40 CFR Part 707.20): No import certification required (EPA 305-B-99-001, June 1999, Introduction to the Chemical Import Requirements of the Toxic Substances Control Act, Section IV.A).

RCRA:

Spent Lead Acid Batteries are subject to streamlined handling requirements when managed in compliance with 40 CFR section 266.80 or 40 CFR part 273. Waste sulfuric acid is a characteristic hazardous waste; EPA hazardous waste number D002 (corrosivity) and D008 (lead).

CAA:

EnerSys supports preventative actions concerning ozone depletion in the atmosphere due to emissions of CFC's and other ozone depleting chemicals (ODCs), defined by the USEPA as Class I substances. Pursuant to Section 611 of the Clean Air Act Amendments (CAAA) of 1990, finalized on January 19, 1993, EnerSys established a policy to eliminate the use of Class I ODCs prior to the May 15, 1995 deadline.

STATE REGULATIONS (US):

Proposition 65:
Warning: Battery posts, terminals and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and reproductive harm. Batteries also contain other chemicals known to the State of California to cause cancer. Wash hands after handling.

INTERNATIONAL REGULATIONS:

Distribution into Quebec to follow Canadian Controlled Product Regulations (CPR) 24(1) and 24(2).

Distribution into the EU to follow applicable Directives to the Use, Import/Export of the product as-sold.

XVI. OTHER INFORMATION

Revised: AB (04-25-17)

NFPA Hazard Rating for Sulfuric Acid:

Flammability (Red) = 0 — Reactivity (Yellow) = 2
Health (Blue) = 3 — Sulfuric acid is water-reactive if concentrated.

DISCLAIMER

This Safety Data Sheet is created by the manufacturer to comply with the requirements of 29 CFR 1910.1200. To the extent allowed by law, the manufacturer hereby expressly disclaims any liability to any third party, including users of this product, including, but not limited to, consequential or other damages, arising out of the use of, or reliance on, this Safety Data Sheet.

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PowerSafe SBS

Features and Benefits

- Capacity range 7-361Ah
- 8V and 12V monobloc configurations
- Multiple string configurations available
- Two year shelf life
- SR-4228 compliant
- Proven long service life
- High energy density and cycling capability

Construction

- Utilizes Thin Plate Pure Lead (TPPL) technology. Thin positive grids are produced from high purity lead from a unique manufacturing process to maximize corrosion resistance and service life while increasing energy density
- Separators are Absorbent Glass Mat (AGM) made from high purity, superior quality fibers. The electrolyte is absorbed within the AGM, preventing acid spills in case of accidental damage
- Electrolyte is produced from extremely high purity acid to reduce self discharge rates and float currents
- Container and cover in flame retardant UL94-V0 material, highly resistant to shock and vibration
- Front terminal batteries use tin-plated copper terminals. Top terminal batteries use a copper alloy insert
- Self-regulating one way pressure relief valves prevent ingress of atmospheric oxygen

Installation and Operation

- Space efficient footprint
- Valve Regulated Lead Acid (VRLA) design reduces maintenance requirements
- Lifting handles for easy handling
- Greater than 10 year life expectancy in float service at 77°F (25°C)
- TPPL technology provides increased active material surface area which yields increased energy density
- Operating temperature: -40°F (-40°C) to 122°F (50°C) Recommended temperature: 68°F (20°C) to 86°F (30°C)

Standards

- Approved as non-hazardous cargo for ground, sea and air transportation in accordance with US DOT Regulation 49 and ICAO & IATA Packing Instruction 806. Please see our SDS for complete details at www.enersys.com
- Complies with Telcordia® SR-4228, Network Equipment Building System (NEBS™) Criteria Levels
- The management systems governing the manufacture of this product are ISO 9001:2008 and ISO 14001:2004 certified

General Specifications

Form Factor	Battery Type	Number of Cells	Nominal Voltage (V)	Rated Capacity 8hr. Rate 1.75Vpc @ 77°F	Rated Capacity 10hr. Rate 1.80Vpc @ 23°F	Nominal Dimensions Length in	Length mm	Width in	Width mm	Height in	Height mm	Typical Weight lbs.	Typical Weight kg	Short Circuit Current (Amps)	Internal** Resistance Milli-ohms	Terminals	Envelope Dimensions Volume (per block) gal	Envelope Dimensions Volume (per block) L	Envelope Dimensions Weight (per block) lbs	Envelope Dimensions Weight (per block) kg	Per Unit Ship Data Volume (per block) gal	Per Unit Ship Data Volume (per block) L	Per Unit Ship Data Weight (per block) lbs	Per Unit Ship Data Weight (per block) kg	Lead Weight (per block) lbs	Lead Weight (per block) kg
Form Factor 1	SBS 8*	6	12	7	7	5.43	138	3.39	86.0	3.90	99.0	5.95	2.70	455	27.1	M4 F	0.10	0.38	1.08	0.49	0.63	0.11	0.43	0.19	4.26	1.93
	SBS 15	6	12	14	14	7.87	200	3.03	77.0	5.51	140	11.5	5.20	891	13.5	M6 M	0.20	0.75	2.14	0.97	0.06	0.21	0.86	0.38	7.83	3.56
	SBS 30	6	12	26	26	9.84	250	3.82	97.0	6.14	156	20.9	9.50	1556	7.90	M6 M	0.40	1.51	4.33	1.96	0.11	0.43	1.72	0.78	15.5	7.04
	SBS HB30	6	12	26	26	9.84	250	3.82	97.0	6.14	156	21.2	9.63	1556	7.90	harness	0.40	1.51	4.33	1.96	0.11	0.43	1.72	0.78	15.5	7.04
	SBS 40	6	12	38	38	9.84	250	3.82	97.0	8.11	206	29.1	13.2	2184	5.60	M6 M	0.56	2.23	6.29	2.90	0.17	0.63	2.53	1.15	21.2	9.61
	SBS 60	6	12	51	51	9.66	220	4.76	121	10.3	261	40.8	18.5	2618	4.40	M6 M	0.85	3.22	9.21	4.17	0.24	0.91	3.55	1.66	29.1	13.2
Form Factor 2	SBS 110	3	6	116	115	7.87	200	8.19	208	9.41	239	46.7	21.2	3804	1.70	M8 M	0.95	3.60	10.3	4.67	0.27	1.01	4.08	1.85	31.6	14.3
	SBS 130	3	6	133	132	7.87	200	8.19	208	9.41	239	50.0	22.7	4111	1.40	M8 M	0.98	3.70	10.5	4.80	0.28	1.04	4.20	1.90	34.2	15.5
	SBS 300	1	2	307	310	7.87	200	8.19	208	9.41	239	47.8	21.7	8709	0.23	M8 M	0.95	3.60	10.3	4.67	0.27	1.01	4.08	1.85	31.9	14.5
	SBS 360	1	2	361	360	7.87	200	8.19	208	9.41	239	51.1	23.2	11191	0.18	M8 M	0.90	3.39	9.70	4.40	0.25	0.95	3.85	1.75	34.7	15.7
Form Factor 1	SBS J13	6	12	12	12	6.89	175	3.27	83.0	5.08	129	11.5	5.20	957	13.0	M6 F	0.18	0.68	1.95	0.88	0.05	0.19	0.77	0.35	8.11	3.68
	SBS J16	6	12	15	15	7.13	181	2.99	76.0	6.57	167	14.8	6.70	1111	11.0	M6 F	0.23	0.87	2.49	1.13	0.06	0.25	0.99	0.45	11.0	5.00
	SBS J30	6	12	26	26	6.54	166	6.89	175	4.92	125	26.0	11.8	1756	7.00	M6 F	0.39	1.48	4.22	1.92	0.11	0.42	1.68	0.76	18.1	8.19
	SBS J40	6	12	39	39	7.76	197	6.50	165	6.69	170	35.1	15.9	2400	5.20	M6 F	0.51	2.31	6.61	3.00	0.17	0.65	2.62	1.19	27.6	12.5
	SBS J70	6	12	64	64	13.0	329	6.54	166	6.85	174	60.8	27.6	3500	3.50	M6 F	0.98	3.71	10.5	4.81	0.28	1.04	4.21	1.91	44.4	20.2
Form Factor 3	SBS B8*	6	12	31	31	11.0	280	3.82	97.0	6.26	159	22.7	10.3	1270	10.0	M8 F	0.37	1.42	4.05	1.84	0.11	0.40	1.51	0.73	15.5	7.08
	SBS B10*	6	12	38	38	11.0	280	3.82	97.0	7.24	184	26.0	11.8	1390	9.00	M8 F	0.48	1.80	5.15	2.34	0.13	0.51	2.04	0.93	17.7	8.03
	SBS B14*	6	12	52	52	11.0	280	3.82	97.0	10.4	264	42.1	19.1	1800	7.00	M8 F	0.78	2.95	8.45	3.83	0.22	0.83	3.35	1.52	29.6	13.4
	SBS C11*	6	12	91	92	15.6	395	4.13	105	10.4	264	61.7	28.0	2300	5.50	M8 F	1.29	4.85	13.9	6.29	0.36	1.36	5.50	2.49	43.3	19.7
	SBS 100*	6	12	100	100	15.6	395	4.25	108	11.3	287	71.9	32.6	2210	5.60	M8 F	1.34	5.09	14.6	6.59	0.38	1.43	5.77	2.62	49.7	22.5
	SBS 145*	6	12	145	145	16.9	429	6.77	172	9.37	238	105	47.6	4100	3.00	M8 F	2.21	8.37	23.9	10.9	0.62	2.35	9.49	4.31	79.5	36.1
Form Factor 4	SBS B8F*	6	12	31	31	11.9	303	3.82	97.0	6.26	159	22.7	10.3	1270	10.0	M8 M	0.37	1.42	4.05	1.84	0.11	0.40	1.61	0.73	15.5	7.08
	SBS B10F*	6	12	38	38	11.9	303	3.82	97.0	7.24	184	28.2	12.8	1390	9.00	M8 M	0.48	1.80	5.15	2.34	0.13	0.51	2.04	0.93	17.7	8.03
	SBS B14F*	6	12	52	52	11.9	303	3.82	97.0	10.4	264	42.0	19.1	1800	7.00	M8 M	0.78	2.95	8.45	3.83	0.22	0.83	3.35	1.52	29.6	13.4
	SBS C11F*	6	12	91	92	16.4	417	4.13	105	10.1	256	61.6	27.9	2300	5.50	M8 M	1.29	4.85	13.9	6.29	0.36	1.36	5.50	2.49	43.3	19.7
	SBS 100F*	6	12	100	100	15.6	395	4.25	108	11.3	287	71.9	32.6	2210	5.60	M8 M	1.34	5.09	14.6	6.59	0.38	1.43	5.77	2.62	49.7	22.5
	SBS 112F*	6	12	112	112	22.1	561	4.92	125	9.98	226	80.4	41.0	2500	5.00	M8 M	1.71	6.48	19.5	8.41	0.48	1.82	7.35	3.34	56.8	25.8
	SBS 145F*	6	12	145	145	17.8	452	6.77	172	9.37	238	105	47.6	4100	3.00	M8 M	2.25	8.51	24.3	11.0	0.63	2.39	9.65	4.38	72.4	32.8
	SBS 165F*	6	12	165	165	17.8	452	6.77	172	10.8	274	116	52.8	3700	2.30	M8 M	2.45	9.27	26.5	12.0	0.64	2.42	9.72	4.41	82.7	37.5
	SBS 170F*	6	12	170	170	22.1	561	4.92	125	11.1	283	116	52.5	3400	4.00	M8 M	2.89	7.92	22.7	10.3	0.59	2.23	8.99	4.08	82.0	37.2
	SBS 190F*	6	12	190	190	22.1	561	4.92	125	12.4	316	132	60.0	3800	3.30	M8 M	2.34	6.85	25.3	11.5	0.65	2.49	10.1	4.56	95.8	43.4

*NEBS Compliant GR63-Core
**Resistance values are for reference only and not intended to represent an Ohmic value or baseline measurement

2 www.enersys.com

BATTERY STRING CALCULATIONS

- (4) BATTERIES PER STRING (CONNECTED IN SERIES)
- 190Ah PER BATTERY (190Ah PER STRING FROM (4) BATTERIES IN SERIES)
- 12 VOLTS PER BATTERY (48V PER STRING FROM (4) BATTERIES IN SERIES)

190Ah X 48V / 1000 = 9.12kWh PER STRING ((2) TOTAL STRINGS = 18.24kWh)

SBS 170F BATTERY SPECS (1 UNIT)

LENGTH = 22.1"
WIDTH = 4.92"
HEIGHT = 11.1"
WEIGHT = 116 LBS

SBS 190F BATTERY SPECS (1 UNIT)

LENGTH = 22.1"
WIDTH = 4.92"
HEIGHT = 12.4"
WEIGHT = 132 LBS

BATTERY INFORMATION

INSTALL STATUS	BATTERY MODEL	TOTAL # OF BATTERY UNITS INSTALLED (EA)	TOTAL ELECTROLYTE VOLUME (GALLONS) PER UNIT	TOTAL ELECTROLYTE WEIGHT (LBS) PER UNIT	TOTAL SULFURIC ACID VOLUME (GALLONS) PER UNIT	TOTAL SULFURIC ACID WEIGHT (LBS) PER UNIT	% SULFURIC ACID BY VOLUME =	TOTAL SULFURIC ACID VOLUME/UNIT / TOTAL ELECTROLYTE VOLUME/UNIT	TOTAL SULFURIC ACID BY VOLUME (GALLONS) =	TOTAL # OF UNITS x TOTAL SULFURIC ACID VOLUME/UNIT	% SULFURIC ACID BY WEIGHT =	TOTAL SULFURIC ACID WEIGHT/UNIT / TOTAL ELECTROLYTE WEIGHT/UNIT	TOTAL SULFURIC ACID BY WEIGHT (LBS) =	TOTAL # OF UNITS x TOTAL SULFURIC ACID WEIGHT/UNIT	**TOTAL ELECTROLYTE BY VOLUME (GALLONS) =**	**TOTAL # OF UNITS x TOTAL ELECTROLYTE VOLUME/UNIT**	TOTAL ELECTROLYTE BY WEIGHT (LBS) =	TOTAL # OF UNITS x TOTAL ELECTROLYTE WEIGHT/UNIT
PROPOSED	ENERSYS POWER SAFE - SBS 190F	8	2.34	25.3	0.66	10.1	28.21%		5.28		39.92%		80.80		18.72		202.40	
TOTAL	N/A	8	2.34	25.3	0.66	10.1	N/A		5.28		N/A		80.80		**18.72**		202.40	

PREPARED FOR

AT&T

NEW CINGULAR WIRELESS PCS, LLC ("AT&T")
19801 SW 72ND AVE., STE. 200
TUALATIN, OR 97062

Vendor:

JS INFRASTRUCTURE PARTNERS

23 MAUCHLY #110
IRVINE, CA 92618

J5 PROJECT ID: P-068910

Issued For:

OL0734
OLYMPIA MISSION CREEK

1818 4TH AVENUE EAST
OLYMPIA, WA 98506
PARCEL ID: 80800400300

DRAWN BY: JBE

CHECKED BY:

REV	DATE	DESCRIPTION
A	11/07/22	90% CD

Licensor:

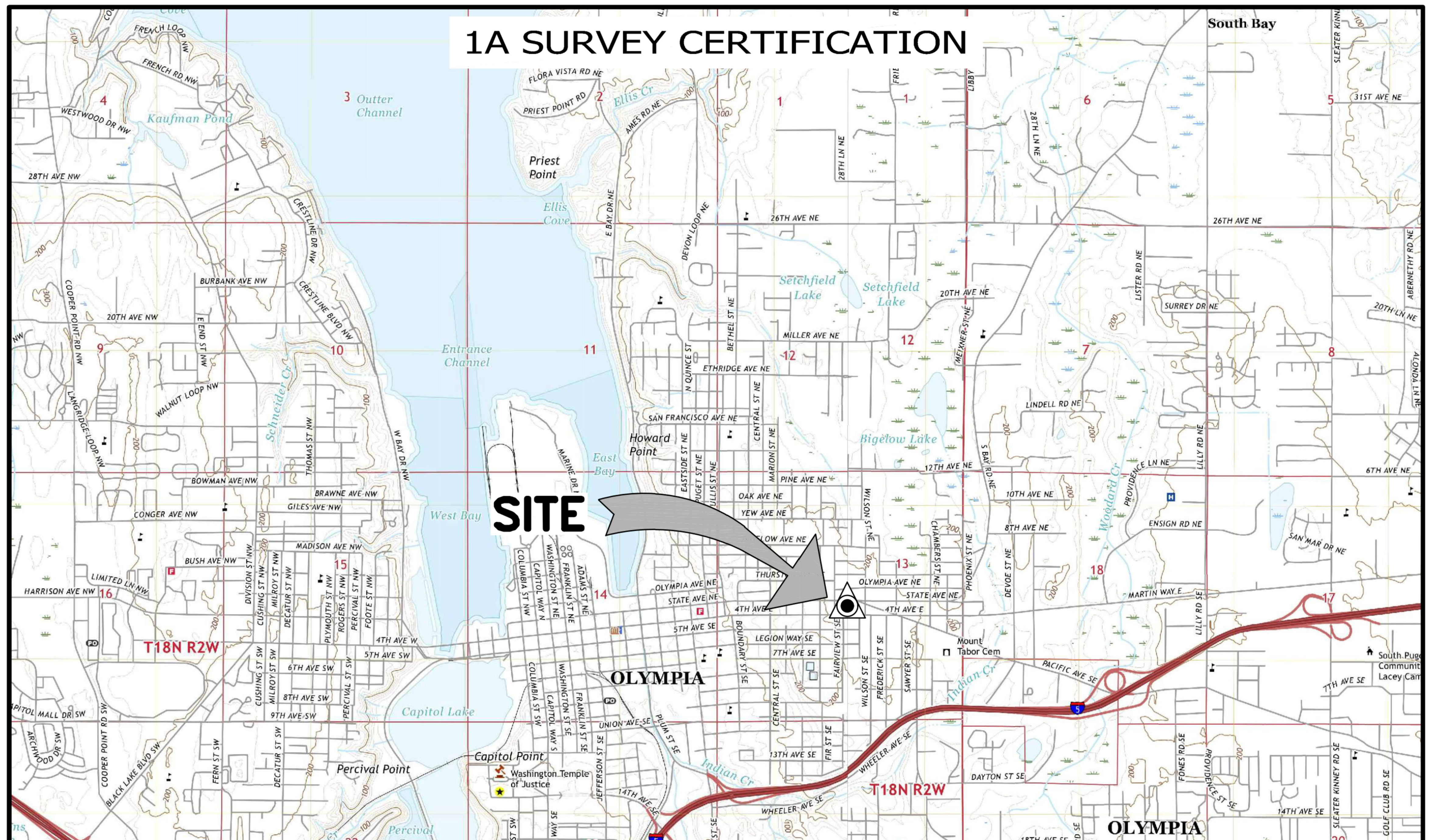
Sheet Title:
MATERIAL SAFETY DATA SHEET & LEAD ACID BATTERY -2

Sheet Number:
GN-5

Attachment 7

DocuSign Envelope ID: 982FDC21-AD63-468B-A0C5-CBCCD9D949D5

1A SURVEY CERTIFICATION



GEOGRAPHIC COORDINATES

LATITUDE: 47°02'47.73" N (47.04659) (NAD 83)

LONGITUDE: 122°52'37.33" W (−122.87704) (NAD 83)

GROUND ELEVATION: 201.46' FEET (NAVD 88)

DATE OF SURVEY: MAY 5, 2022

2000' 0 1000' 2000' 4000'

SCALE: 1" = 2000'

RE: SITE NAME: OL0734 – OLYMPIA MISSION CREEK
1818 4TH AVENUE EAST
OLYMPIA, WA 98506

I CERTIFY THAT THE LATITUDE AND THE LONGITUDE SHOWN ABOVE ARE ACCURATE TO WITHIN ±15 FEET HORIZONTALLY AND THAT THE SITE ELEVATION IS ACCURATE TO WITHIN ±3 FEET VERTICALLY, WHICH MEETS 1A STANDARDS AS DEFINED ON THE FAA ASAC INFORMATION SHEET 91:003. THE HORIZONTAL DATUM (GEOGRAPHIC COORDINATES) ARE IN TERMS OF THE NORTH AMERICAN DATUM OF 1983 (NAD 83) AND ARE EXPRESSED AS DEGREES (°), MINUTES ('), AND SECONDS ("). TO THE NEAREST HUNDREDTH OF A SECOND. THE VERTICAL DATUM (ELEVATION AMSL) IS IN TERMS OF THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

S&F Land Services

Date: 05/23/2022
Proj No: 2020-177-139
Prepared: HTF
Checked: MJF

SHEET 1 OF 1

MATTHEW J. FAULKNER — STATE OF WASHINGTON — 47609 — REGISTERED PROFESSIONAL LAND SURVEYOR

DocuSigned by: Matthew J. Faulkner
785DF8C4986C4B9...

PREPARED FOR

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OLYMPIA, WA 98506
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CHECKED BY:

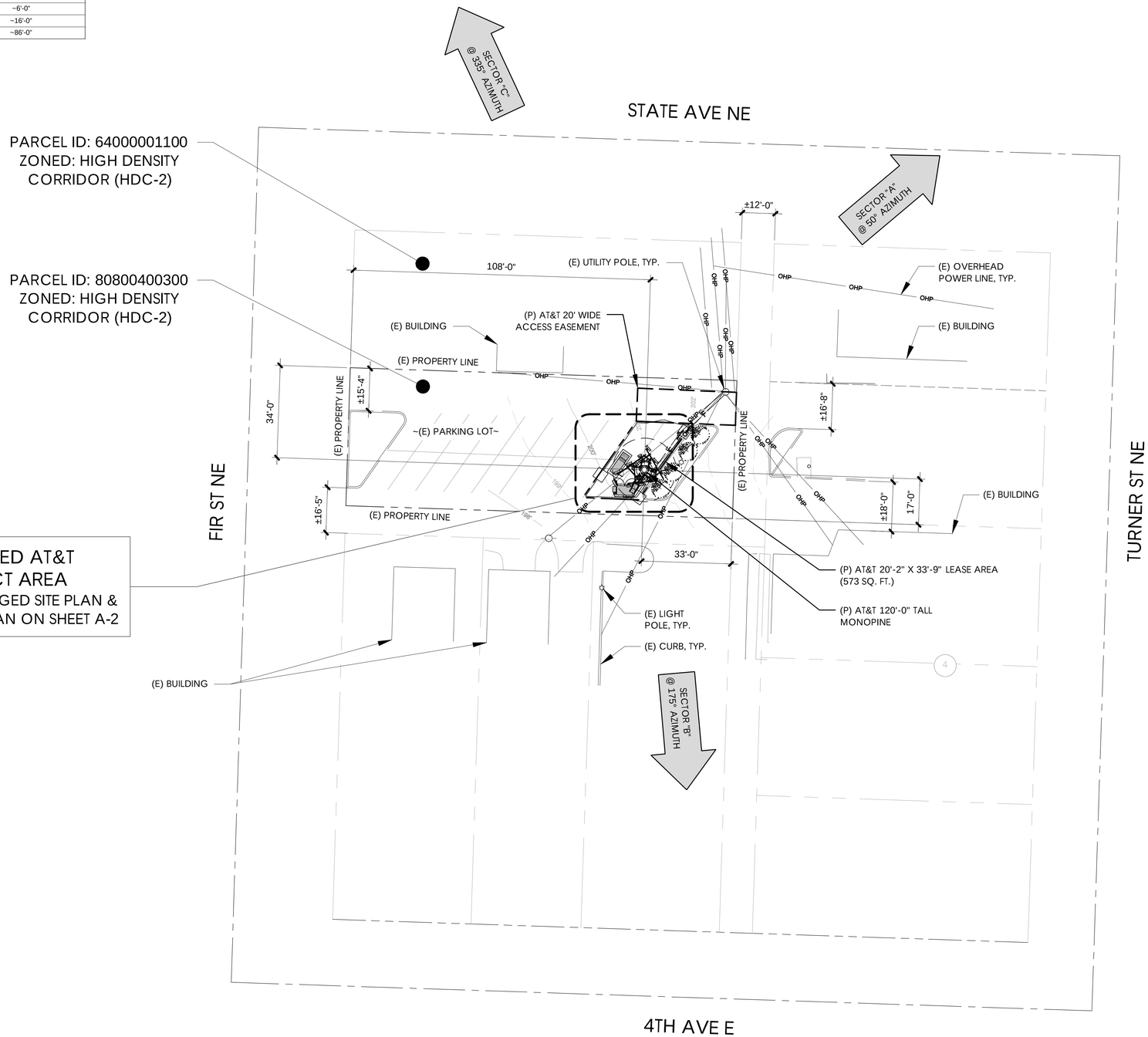
REV	DATE	DESCRIPTION
A	11/07/22	90% CD

Licensor:

Sheet Title:
1A CERTIFICATION

Sheet Number:
1A

SETBACK TABLE:		
	TOWER BASE TO PARENT PROPERTY LINE	LEASE BOUNDARY TO PARENT PROPERTY LINE
NORTH	~34'-0"	~16'-0"
SOUTH	~17'-0"	~6'-0"
EAST	~33'-0"	~16'-0"
WEST	~108'-0"	~86'-0"



SITE PLAN

24"x36" SCALE: 1" = 20'-0" 20' 10' 0" 20' NORTH 1

PREPARED FOR

AT&T

NEW CINGULAR WIRELESS PCS, LLC ("AT&T")
19801 SW 72ND AVE., STE. 200
TUALATIN, OR 97062

Vendor:

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J5 PROJECT ID: P-068910

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OLYMPIA MISSION CREEK

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CHECKED BY:

REV	DATE	DESCRIPTION
A	11/07/22	90% CD

Licensor:

Sheet Title:

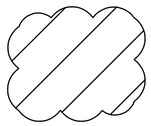
SITE PLAN

Sheet Number:

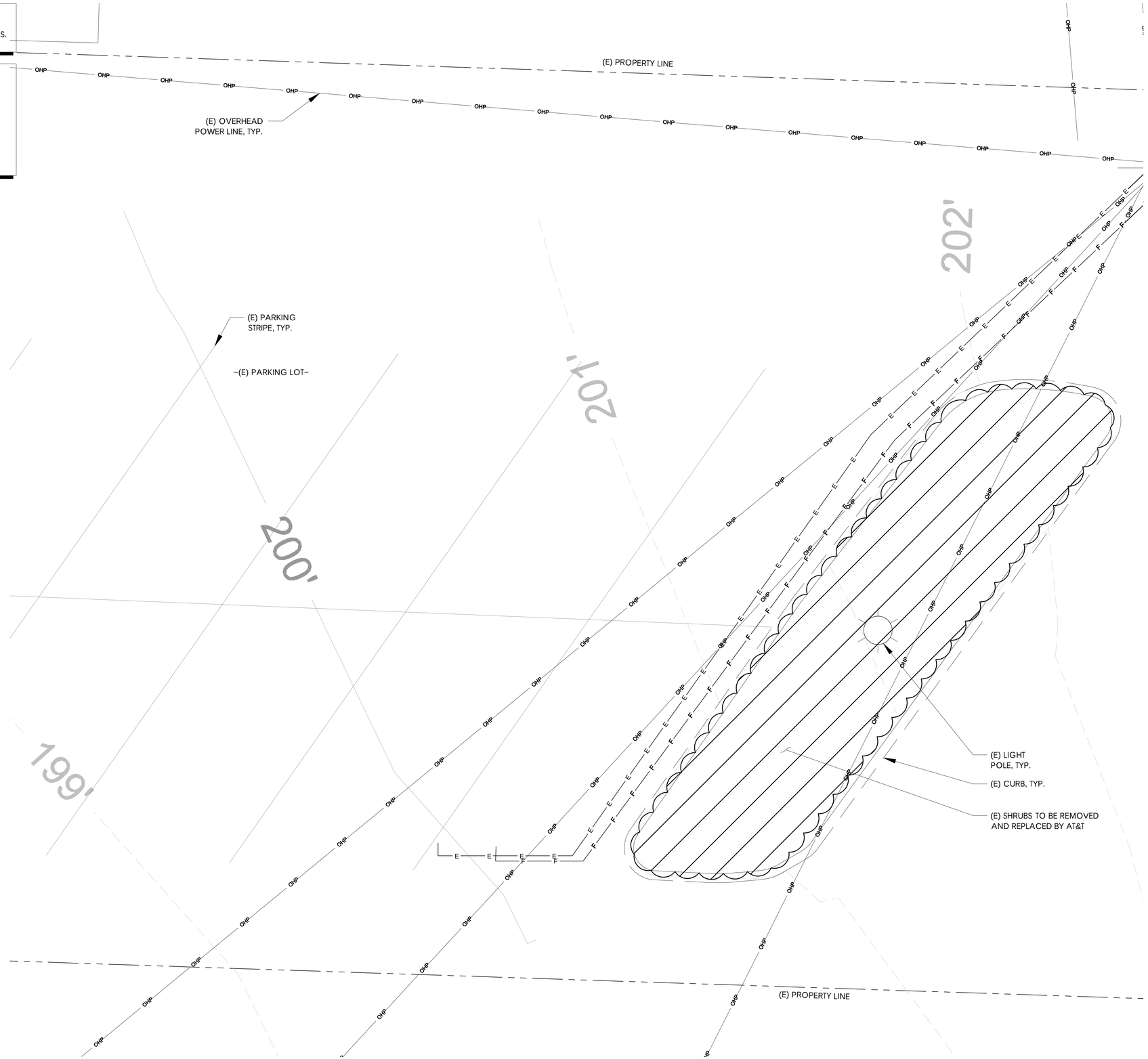
A-1

NOTES:
1. PRIOR TO EXCAVATION, CONTRACTOR SHALL CHECK THE AREA FOR UNDERGROUND FACILITIES.

NOTE:



TO BE REMOVED AND DISPOSED OF IN A LEGAL MANNER.



DEMO PLAN

24"x36" SCALE: 3/8" = 1'-0" 2' 1' 0" 2' NORTH

PREPARED FOR

AT&T

NEW CINGULAR WIRELESS PCS, LLC ("AT&T")
19801 SW 72ND AVE., STE. 200
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PARCEL ID: 80800400300

DRAWN BY: JBE

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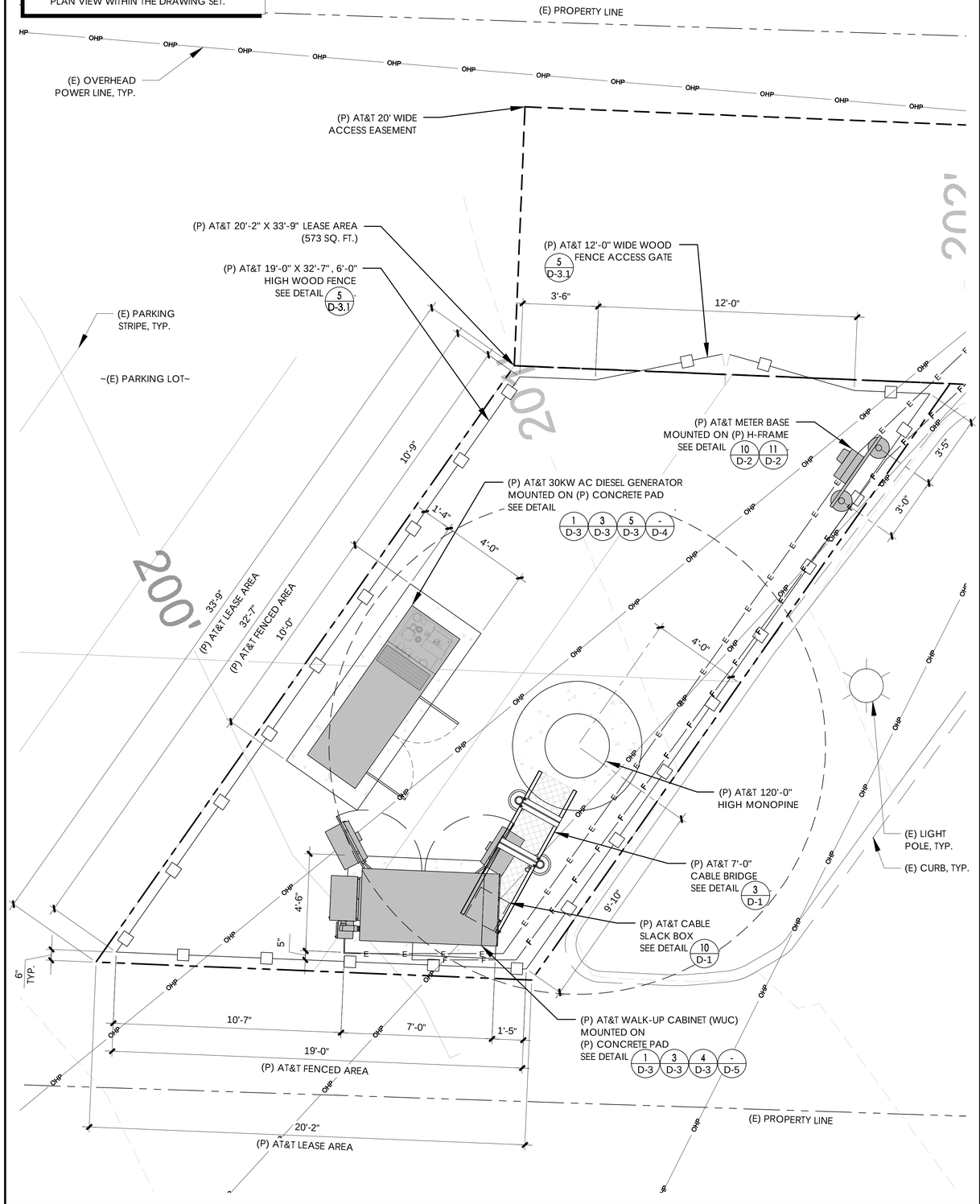
REV	DATE	DESCRIPTION
A	11/07/22	90% CD

Licensor:

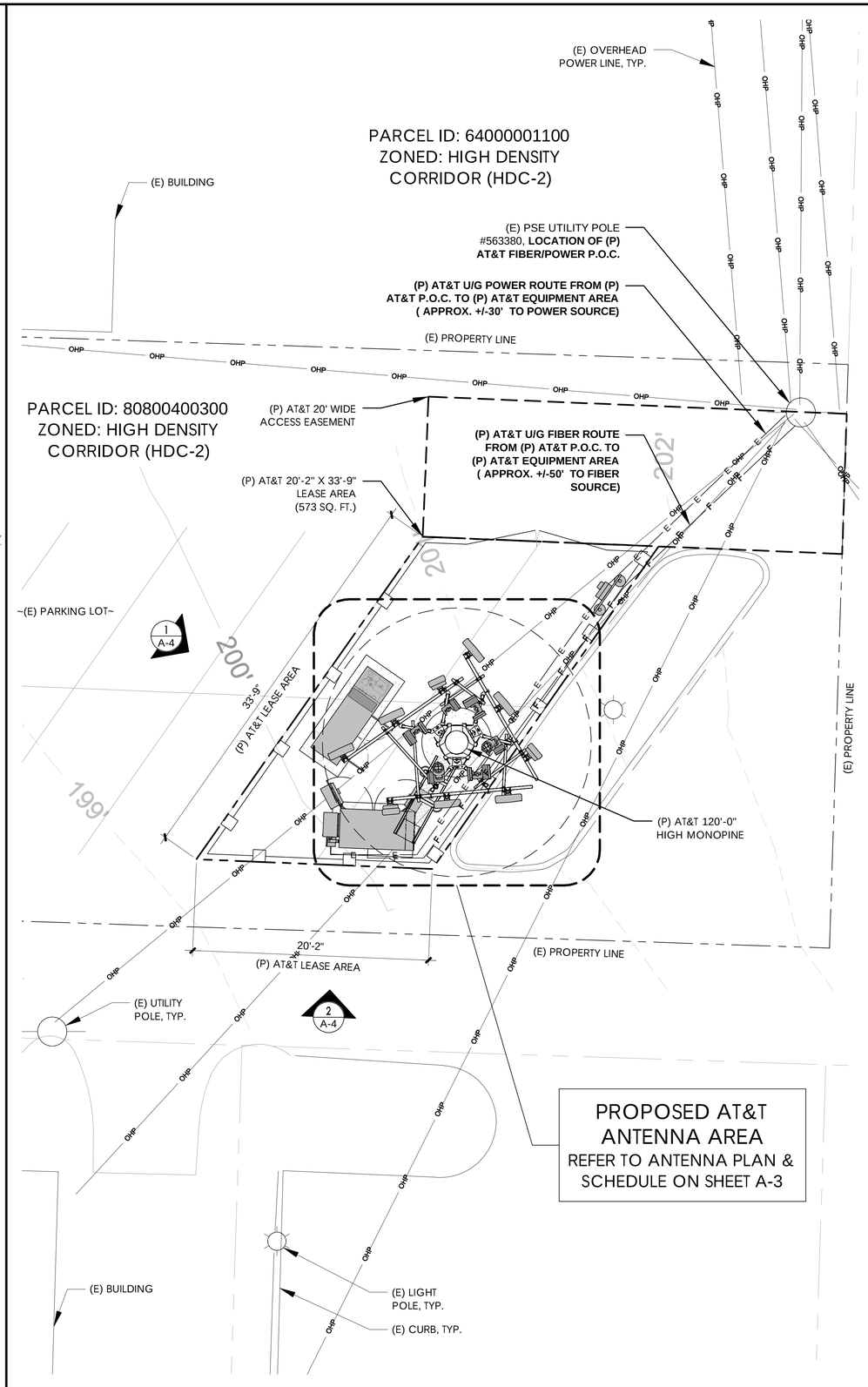
Sheet Title:
DEMO PLAN

Sheet Number:
A-1.1

NOTE:
1. (P) AT&T ANTENNA MOUNT NOT DEPICTED IN THIS VIEW FOR CLARITY. FOR LOCATIONS OF THESE ITEMS, PLEASE REFER ANTENNA PLAN VIEW WITHIN THE DRAWING SET.



COMPOSITE PLAN — 24"x36" SCALE: 3/8" = 1'-0" — 2 — NORTH



ENLARGED SITE PLAN — 24"x36" SCALE: 3/16" = 1'-0" — 1

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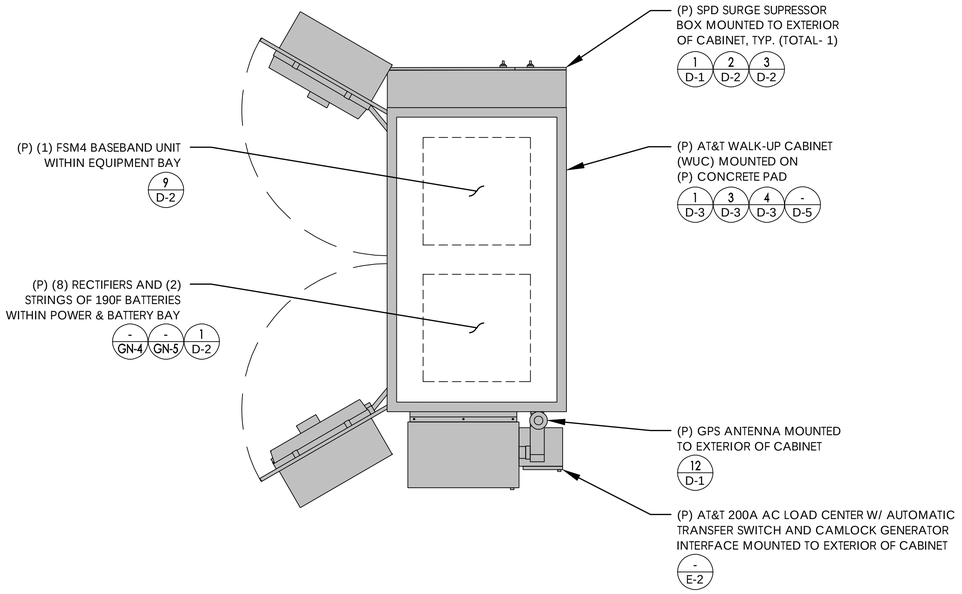
REV	DATE	DESCRIPTION
A	11/07/22	90% CD

Licensor:

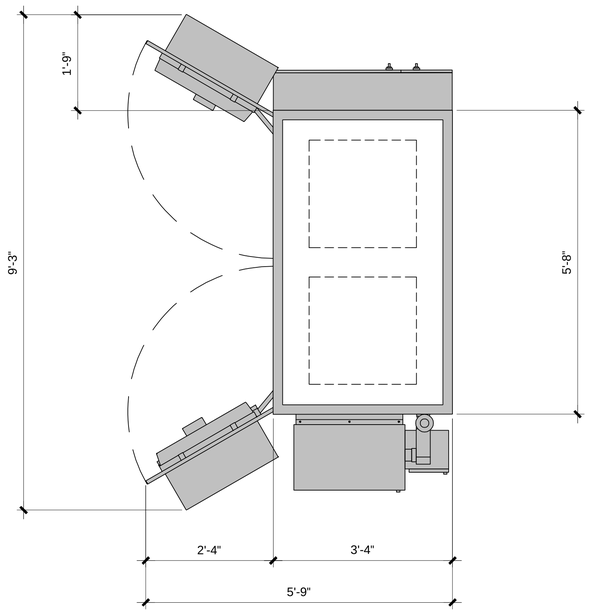
Sheet Title:
ENLARGED SITE PLAN & COMPOUND PLAN

Sheet Number:
A-2



EQUIPMENT PLAN (WALK-UP CABINET - WUC)

24"x36" SCALE: 3/4" = 1'-0" 1' 6" 0" 1' NORTH 2

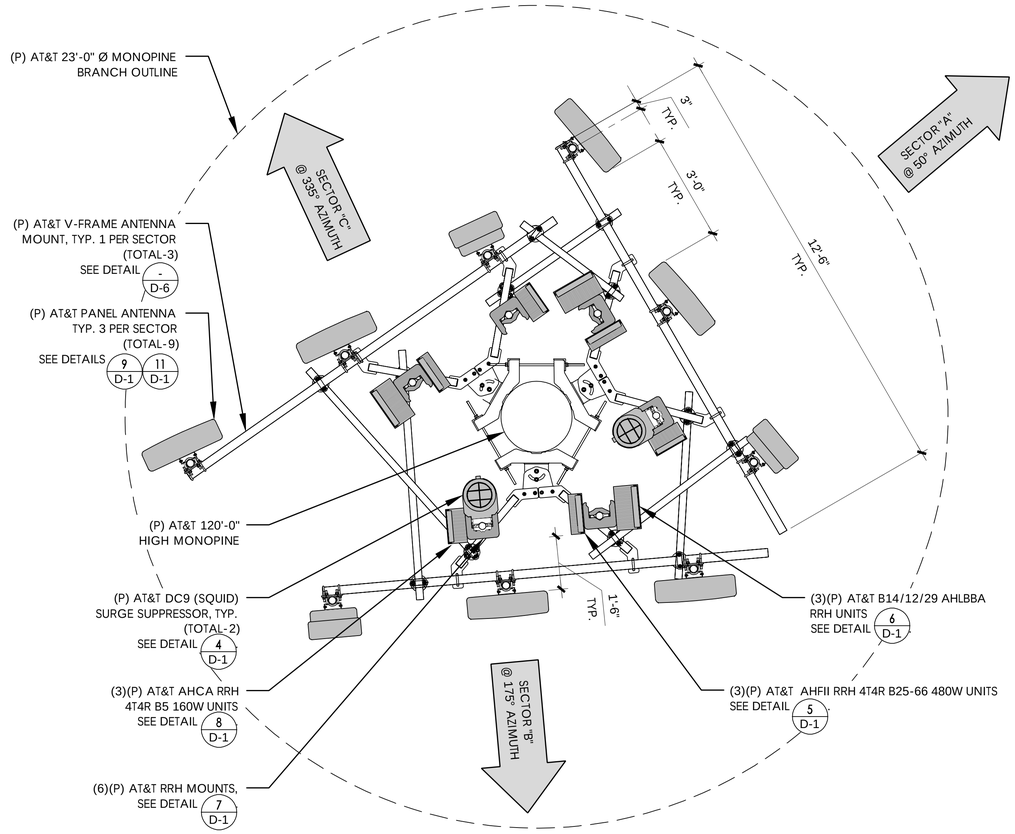


DIMENSION PLAN (WALK-UP CABINET - WUC)

24"x36" SCALE: 3/4" = 1'-0" 1' 6" 0" 1' NORTH 3

NOTE:
1. ALL RELEVANT STRUCTURAL ANALYSIS IS UNDER A SEPARATE PERMIT BY OTHERS.

NOTE:
1. ALL (P) CABLING AND EQUIPMENT MUST BE INSTALLED AND USED IN ACCORDANCE WITH THE PRODUCT'S INCLUDED INSTRUCTIONS, LISTING AND/OR LABELING REQUIREMENTS. PER NEC SECTION 110.3(B).
2. ALL (P) CABLING CONFORMS WITH, AND IS TO BE INSTALLED PER NEC 356.10 & 356.12.
3. RRU'S ARE STACKED AND STAGGERED TO FIT



RFDS VERSION: FINAL/1.0
DATE UPDATED: 6/21/2022

(P) ANTENNA SCHEDULE

	POS	AZIMUTH	RAD CENTER	MECHANICAL DOWNTILT	ANTENNA MAKE	ANTENNA MODEL	RRH MODEL	SURGE SUPPRESSOR	FEEDER TYPE	FEEDER LENGTH
SECTOR "A"	A1	50°	116'-0"	0	CELLMAX	CMA - UBTULBULBHH-6517-17-21-21	(1) TRI RRH 4T4R B12/14/29 370W AHLBBA (1) DUAL RRH 4T4R B25/66 480W AHFII	(2) DC9-48-60-24-8C-EV	(6) DC POWER & (2) 18 PAIR FIBER TRUNK CABLES	±135'
	A2	50°	116'-0"	0	CELLMAX	CMA - UBTULBULBHH-6517-17-21-21	(1) RRH 4T4R B5 160W AHCA			
	A3	50°	116'-0"	0	NOKIA	AEQK				
	A4									
SECTOR "B"	B1	175°	116'-0"	0	CELLMAX	CMA - UBTULBULBHH-6517-17-21-21	(1) TRI RRH 4T4R B12/14/29 370W AHLBBA (1) DUAL RRH 4T4R B25/66 480W AHFII			
	B2	175°	116'-0"	0	CELLMAX	CMA - UBTULBULBHH-6517-17-21-21	(1) RRH 4T4R B5 160W AHCA			
	B3	175°	116'-0"	0	NOKIA	AEQK				
	B4									
SECTOR "C"	C1	335°	116'-0"	0	CELLMAX	CMA - UBTULBULBHH-6517-17-21-21	(1) TRI RRH 4T4R B12/14/29 370W AHLBBA (1) DUAL RRH 4T4R B25/66 480W AHFII			
	C2	335°	116'-0"	0	CELLMAX	CMA - UBTULBULBHH-6517-17-21-21	(1) RRH 4T4R B5 160W AHCA			
	C3	335°	116'-0"	0	NOKIA	AEQK				
	C4									

ANTENNA PLAN & SCHEDULE

24"x36" SCALE: 1/2" = 1'-0" 2' 1' 0" 2' NORTH 1

PREPARED FOR

AT&T

NEW CINGULAR WIRELESS PCS, LLC ("AT&T")
19801 SW 72ND AVE., STE. 200
TUALATIN, OR 97062

Vendor:

J5 INFRASTRUCTURE PARTNERS

23 MAUCHLY #110
IRVINE, CA 92618

J5 PROJECT ID: P-068910

Issued For:

OL0734
OLYMPIA MISSION CREEK

1818 4TH AVENUE EAST
OLYMPIA, WA 98506
PARCEL ID: 80800400300

DRAWN BY: JBE

CHECKED BY:

REV	DATE	DESCRIPTION
A	11/07/22	90% CD

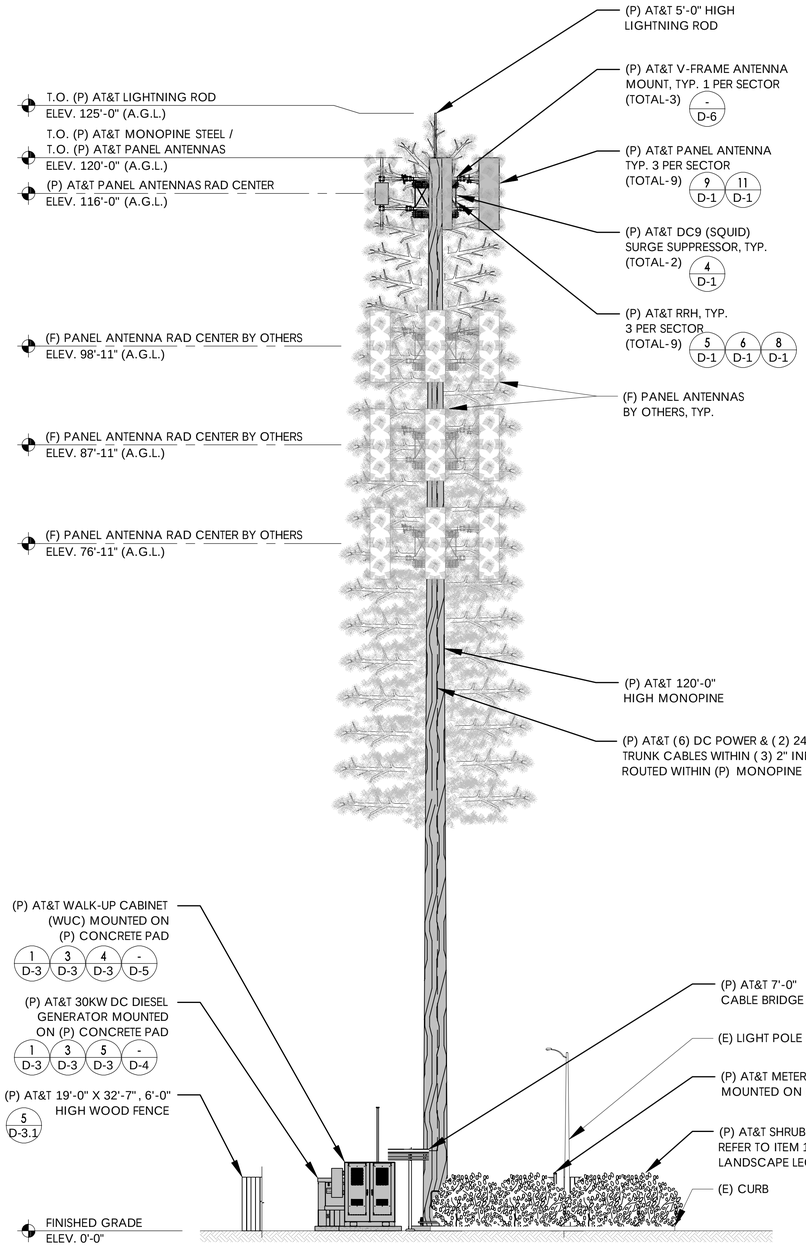
Licensor:

Sheet Title:
ANTENNA PLAN & SCHEDULE & EQUIPMENT PLAN

Sheet Number:
A-3

NOTE:
1. ALL RELEVANT STRUCTURAL ANALYSIS IS UNDER A SEPARATE PERMIT BY OTHERS.

NOTE:
1. AT&T RRU'S, TMA'S, AND SURGE ARRESTORS NOT DEPICTED IN THIS VIEW FOR CLARITY. FOR LOCATIONS OF THESE ITEMS, PLEASE REFER TO PREVIOUS PLANS VIEWS WITHIN THE DRAWING SET



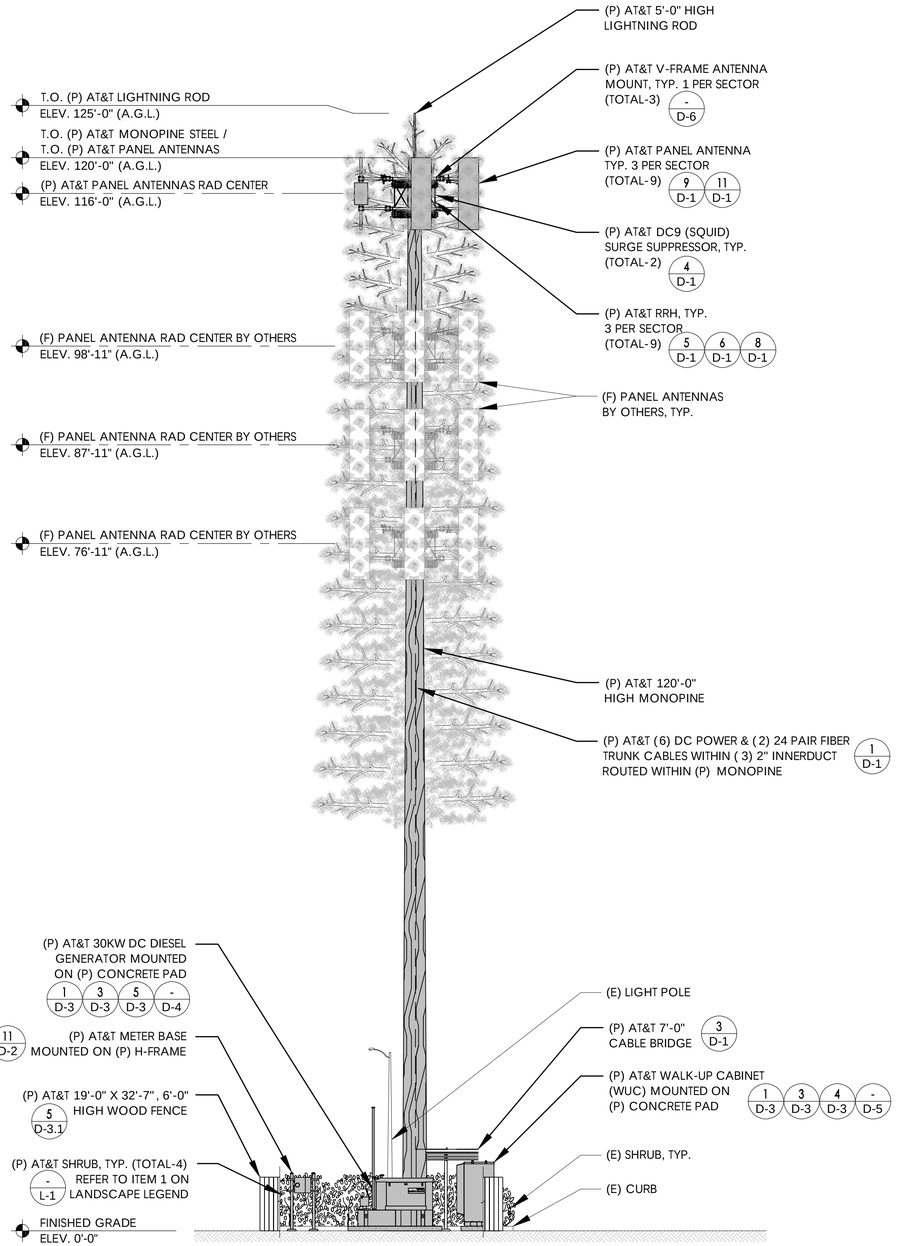
WEST ELEVATION

24"x36" SCALE: 1/8" = 1'-0" 8' 6' 4' 2' 0" 8'

2

NOTE:
1. ALL RELEVANT STRUCTURAL ANALYSIS IS UNDER A SEPARATE PERMIT BY OTHERS.

NOTE:
1. AT&T RRU'S, TMA'S, AND SURGE ARRESTORS NOT DEPICTED IN THIS VIEW FOR CLARITY. FOR LOCATIONS OF THESE ITEMS, PLEASE REFER TO PREVIOUS PLANS VIEWS WITHIN THE DRAWING SET



SOUTH ELEVATION

24"x36" SCALE: 1/8" = 1'-0" 8' 6' 4' 2' 0" 8'

1

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DRAWN BY: JBE

CHECKED BY:

REV	DATE	DESCRIPTION
A	11/07/22	90% CD

Licensor:

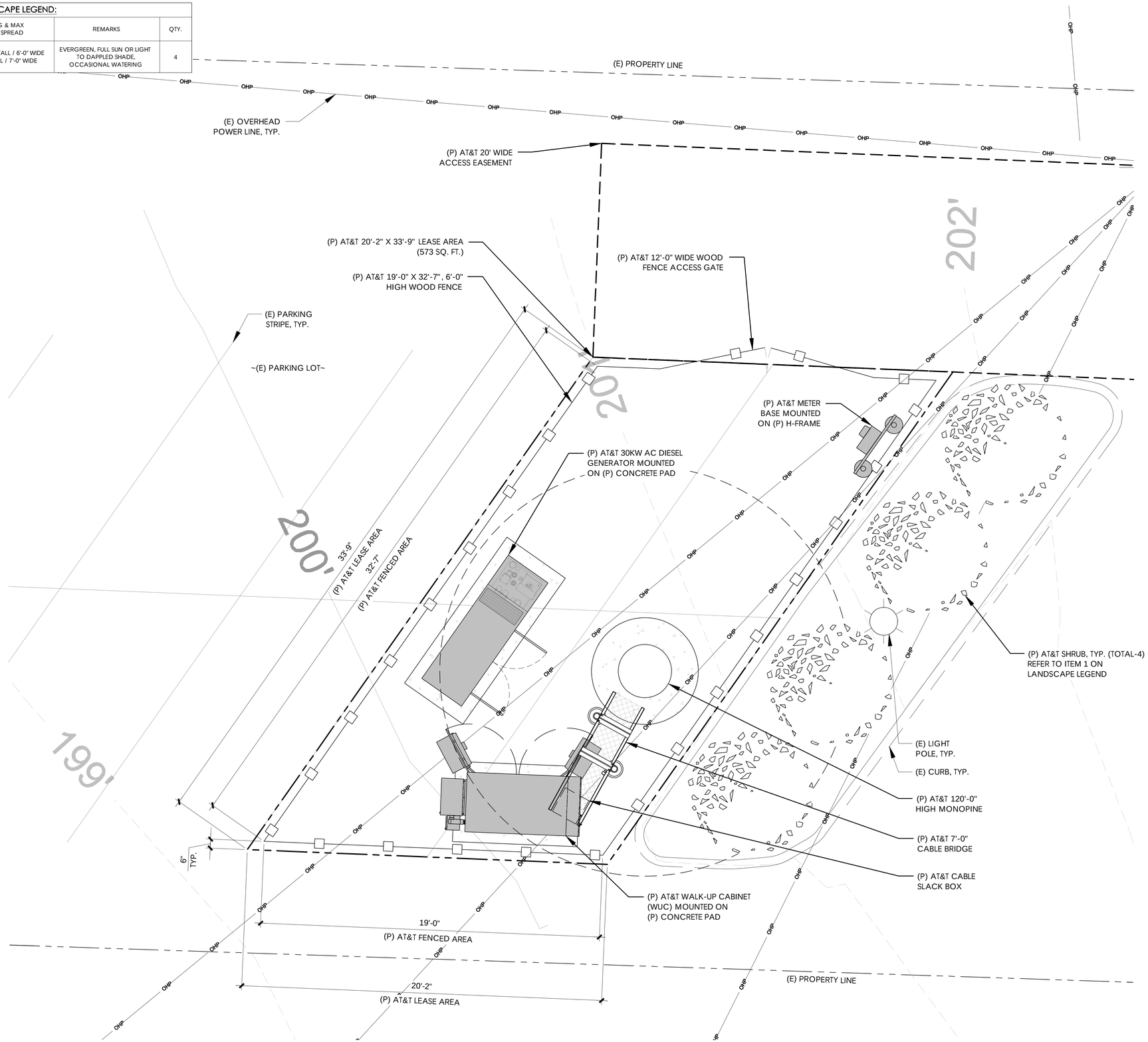
Sheet Title:

ELEVATIONS

Sheet Number:

A-4

LANDSCAPE LEGEND:				
ITEM	BOTANICAL / COMMON NAME	PLANTING & MAX HEIGHT / SPREAD	REMARKS	QTY.
1	BERBERIS X GLADWYNENSIS 'WILLIAM PENN' / WILLIAM PENN BARBERRY	PLANTING: 5'-0" TALL / 6'-0" WIDE MAX: 6'-0" TALL / 7'-0" WIDE	EVERGREEN, FULL SUN OR LIGHT TO DAPPLED SHADE, OCCASIONAL WATERING	4



LANDSCAPE PLAN

24"x36" SCALE: 3/8" = 1'-0" 2' 1' 0" 2' NORTH

1

PREPARED FOR

AT&T

NEW CINGULAR WIRELESS PCS, LLC ("AT&T")
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REV	DATE	DESCRIPTION
A	11/07/22	90% CD

Licensor:

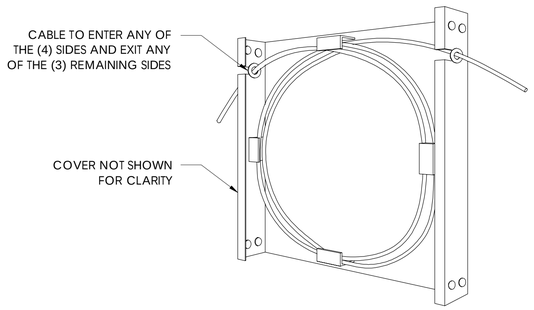
Sheet Title:
LANDSCAPE PLAN

Sheet Number:
L-1

NOTE:
1. USE MANUFACTURER SUPPLIED MOUNTING HARDWARE.

EQUIPMENT SPECIFICATIONS

MFG: RAYCAP
MODEL: FB-15-ABOX CEQ 10505
HEIGHT 4.0 IN
DEPTH: 18.0 IN
WIDTH: 18.0 IN

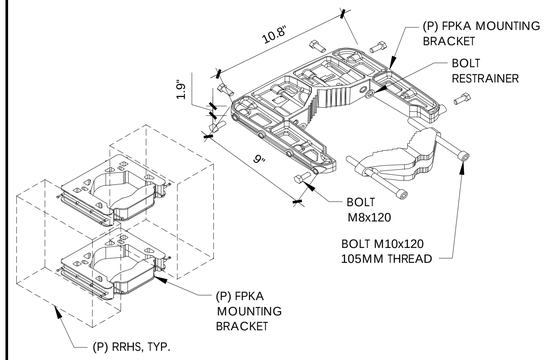


10 CABLE SLACK BOX
N.T.S.

SPECIFICATIONS

MFG: NOKIA
MODEL: FPKA

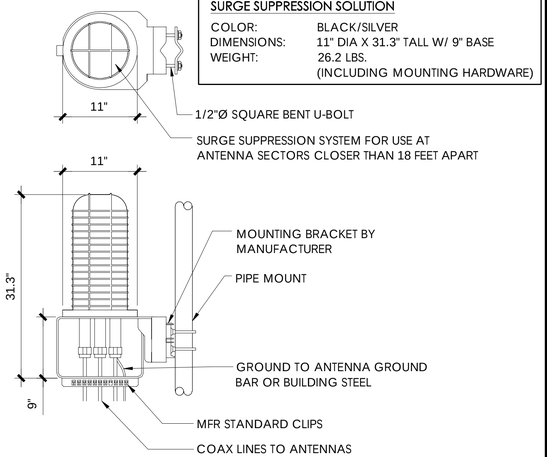
(OR APPROVED EQUIVALENT)



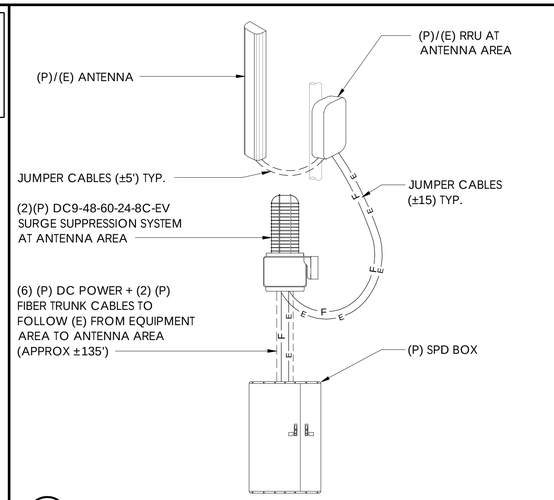
7 RRU MOUNTING BRACKET (BACK TO BACK)
N.T.S.

RAYCAP DC9-48-60-24-8C-EV SURGE SUPPRESSION SOLUTION

COLOR: BLACK/SILVER
DIMENSIONS: 11" DIA X 31.3" TALL W/ 9" BASE
WEIGHT: 26.2 LBS. (INCLUDING MOUNTING HARDWARE)



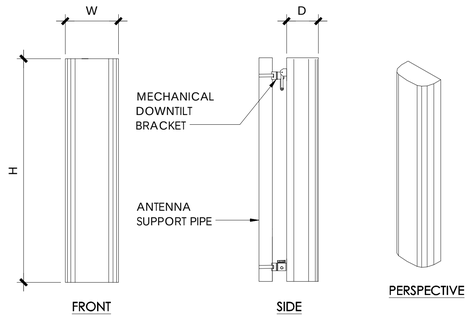
4 DC9-48-60-24-8C-EV SURGE SUPPRESSOR
N.T.S.



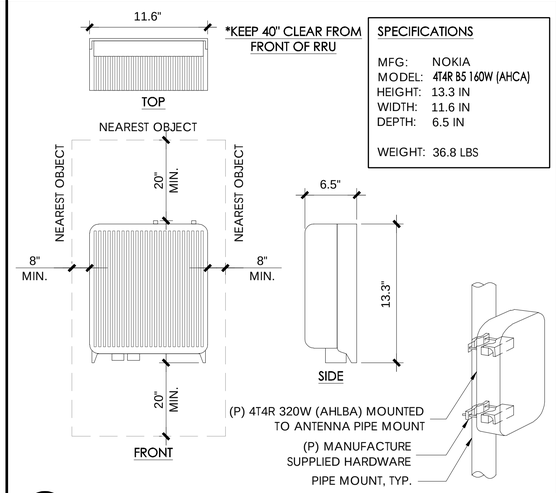
1 NEW POWER / FIBER WIRING SCHEMATIC
N.T.S.

SPECIFICATIONS:

MFG / MODEL / PORT: CELLMAX / UBTULBULBHH-6517-17-21-21 / 8-PORT
DIMENSIONS: 96.5" H X 27.2" W X 7.7" D
WEIGHT: 112 LBS (W/O MOUNTING KIT)



11 ANTENNA SPECIFICATION
N.T.S.

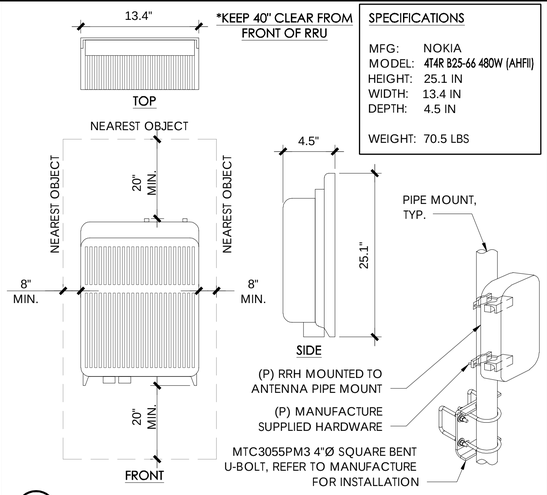


SPECIFICATIONS

MFG: NOKIA
MODEL: 4T4R B5 160W (AHCA)
HEIGHT: 13.3 IN
WIDTH: 11.6 IN
DEPTH: 6.5 IN

WEIGHT: 36.8 LBS

8 AIRSCALE DUAL BAND RRH 4T4R B5 160W (AHCA)
N.T.S.



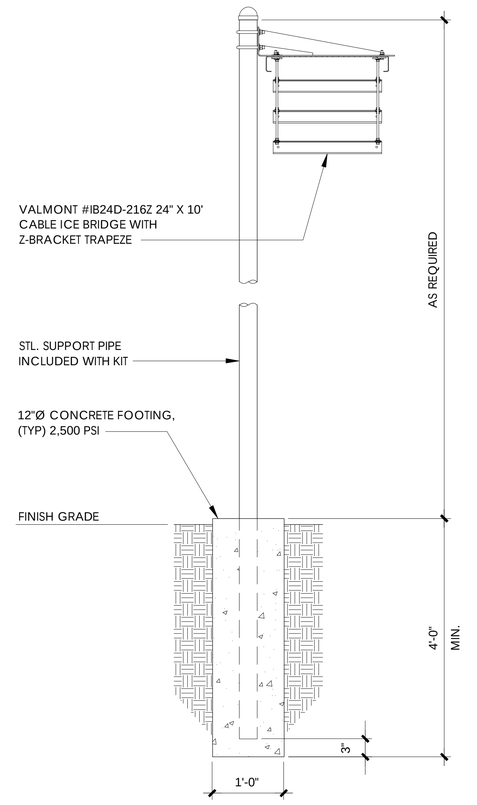
SPECIFICATIONS

MFG: NOKIA
MODEL: 4T4R B25-66 480W (AHFII)
HEIGHT: 25.1 IN
WIDTH: 13.4 IN
DEPTH: 4.5 IN

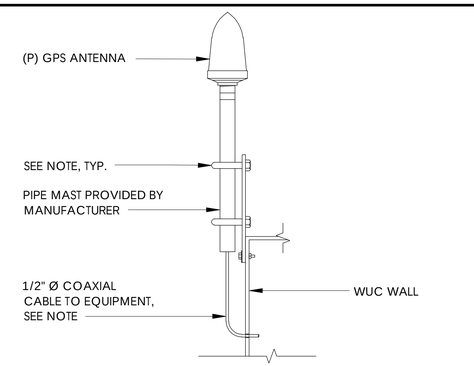
WEIGHT: 70.5 LBS

5 AIRSCALE DUAL BAND RRH 4T4R B25-66 480W (AHFII)
N.T.S.

MOUNTING NOTES:
ICE BRIDGE KITS TO BE ASSEMBLED IN ACCORD WITH THE MANUFACTURER'S GUIDELINES AND REQUIREMENTS.



3 CABLE BRIDGE DETAIL
N.T.S.

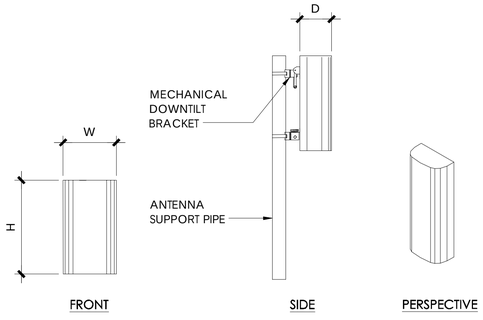


MOUNTING NOTE:
1. FASTEN GPS TO WUC ACCORDING TO WUC DRAWINGS (BY OTHERS)
2. ROUTE GPS ANTENNA CABLES THROUGH THE 4-PORT ROXTEX MULTI-PORT CABLE ENTRY PROVIDED ON THE UPPER SECTION OF THE CABINET SIDE. SEAL PER ROXTEC INSTRUCTIONS.

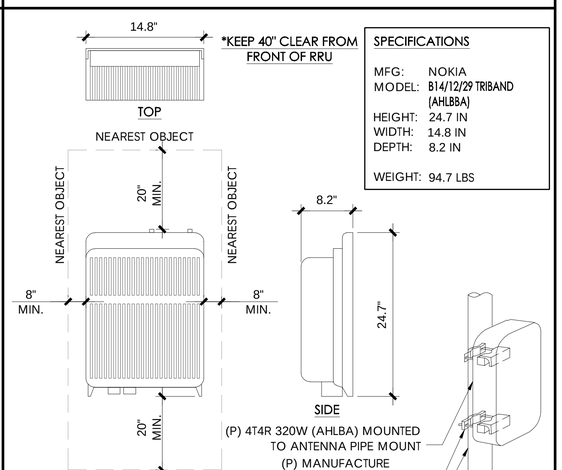
12 GPS MOUNTING DETAIL
N.T.S.

SPECIFICATIONS:

MFG / MODEL / PORT: NOKIA / AEQK / 2-PORT
DIMENSIONS: 29.5" H X 17.7" W X 9.5" D
WEIGHT: 99.2 LBS (W/O MOUNTING KIT)



9 ANTENNA SPECIFICATION
N.T.S.



SPECIFICATIONS

MFG: NOKIA
MODEL: B14/12/29 TRIBAND (AHLBBA)
HEIGHT: 24.7 IN
WIDTH: 14.8 IN
DEPTH: 8.2 IN

WEIGHT: 94.7 LBS

6 NOKIA B14/12/29 TRIBAND RRH (AHLBBA)
N.T.S.

PREPARED FOR

AT&T

NEW CINGULAR WIRELESS PCS, LLC ("AT&T")
19801 SW 72ND AVE., STE. 200
TUALATIN, OR 97062

Vendor:

J5 INFRASTRUCTURE PARTNERS

23 MAUCHLY #110
IRVINE, CA 92618

J5 PROJECT ID: P-068910

Issued For:

OL0734
OLYMPIA MISSION CREEK

1818 4TH AVENUE EAST
OLYMPIA, WA 98506
PARCEL ID: 80800400300

DRAWN BY: JBE

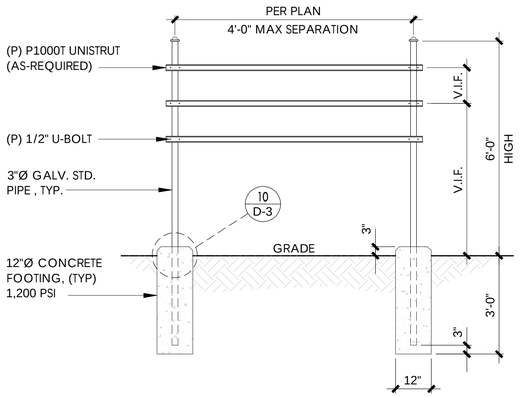
CHECKED BY:

REV	DATE	DESCRIPTION
A	11/07/22	90% CD

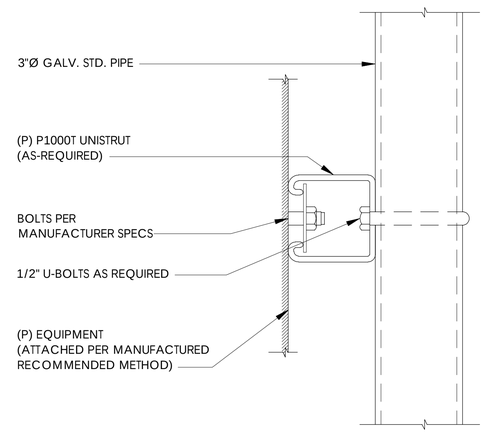
Licensor:

Sheet Title:
DETAILS

Sheet Number:
D-1



10 H-FRAME DETAIL
N.T.S.



11 EQUIPMENT MOUNTING TO H-FRAME DETAIL
N.T.S.

12 NOT USED
N.T.S.

8 NOT USED
N.T.S.

5 NOT USED
N.T.S.

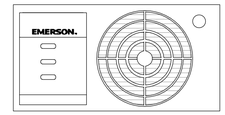
NOTE:
1. USE MANUFACTURER SUPPLIED MOUNTING HARDWARE.

HIGH EFFICIENCY, -48 VDC,
40 A/2000 W, 208/240 VAC SINGLE-PHASE
INPUT (DERATES AT 120 VAC)

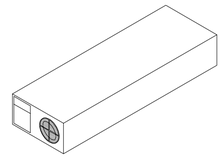
EQUIPMENT SPECIFICATIONS

MFG: EMERSON
MODEL: R48-2000E3
HEIGHT: 1.70 IN
WIDTH: 3.30 IN
DEPTH: 9.90 IN

WEIGHT: 2.49 LBS

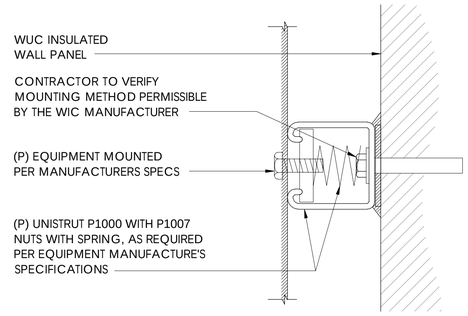


FRONT VIEW

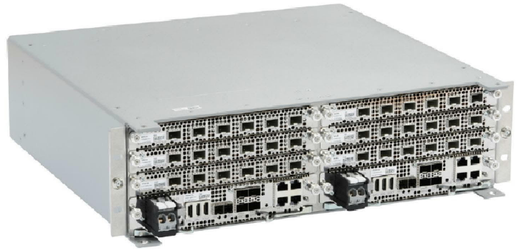


ISOMETRIC VIEW

1 RECTIFIER MODULE
N.T.S.



2 EQUIPMENT MOUNTING DETAIL
N.T.S.



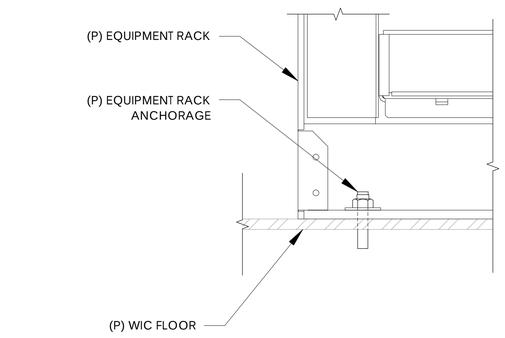
9 FSM4 BASE BAND DETAIL
N.T.S.

NOTE:
1. USE MANUFACTURER SUPPLIED MOUNTING HARDWARE.

EQUIPMENT SPECIFICATIONS

MFG: NOKIA
MODEL: FSM4 BASEBAND
HEIGHT 5.04 IN
DEPTH: 15.75 IN
WIDTH: 17.6 IN

WEIGHT: 22.27 LBS (MIN.)
51.81 LBS (MAX.)

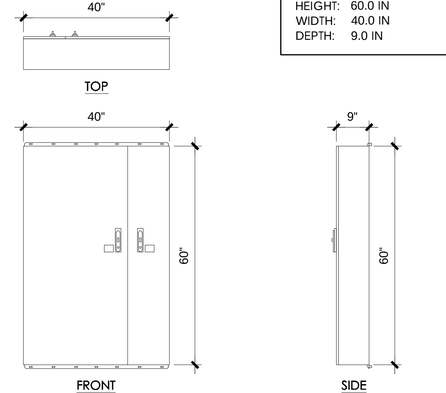


6 RACK ANCHORAGE
N.T.S.

NOTE:
1. USE MANUFACTURER SUPPLIED MOUNTING HARDWARE.

EQUIPMENT SPECIFICATIONS

MFG: VERTIV
MODEL: SPD BOX F1011259
HEIGHT: 60.0 IN
WIDTH: 40.0 IN
DEPTH: 9.0 IN



3 SPD BOX
N.T.S.

PREPARED FOR

AT&T

NEW CINGULAR WIRELESS PCS, LLC ("AT&T")
19801 SW 72ND AVE., STE. 200
TUALATIN, OR 97062

Vendor:

J5 INFRASTRUCTURE PARTNERS

23 MAUCHLY #110
IRVINE, CA 92618

J5 PROJECT ID: P-068910

Issued For:

OL0734
OLYMPIA MISSION CREEK

1818 4TH AVENUE EAST
OLYMPIA, WA 98506
PARCEL ID: 80800400300

DRAWN BY: JBE

CHECKED BY:

REV	DATE	DESCRIPTION
A	11/07/22	90% CD

Licensor:

Sheet Title:

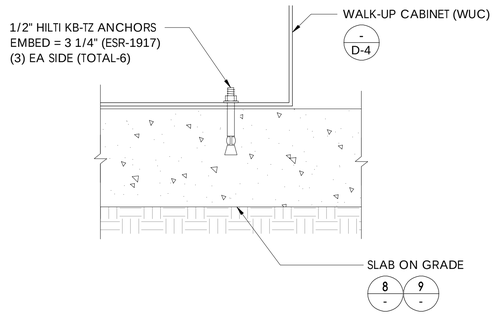
DETAILS

Sheet Number:

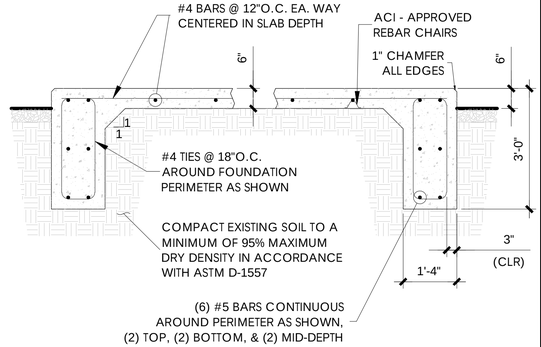
D-2

10 NOT USED
N.T.S.

7 NOT USED
N.T.S.



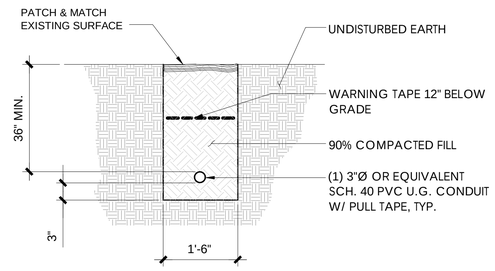
4 WALK-UP CABINET (WUC) ANCHORAGE DETAIL
N.T.S.



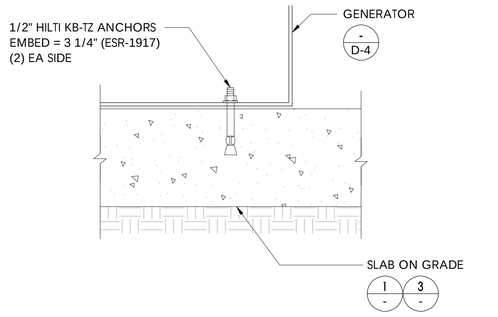
1 CONCRETE FOUNDATION SECTION
N.T.S.

11 NOT USED
N.T.S.

NOTE:
1. VERIFY (E) CONDUIT LOCATION AND CONDITION. DO NOT DAMAGE (E) CONDUIT. (E) CONDUIT TO BE ENCASED IN CONCRETE IF UNDER (N) CONCRETE PAD FOOTING.



8 POWER TRENCH DETAIL
N.T.S.



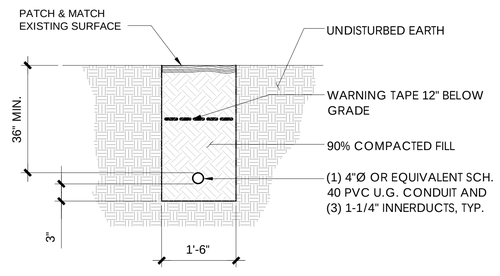
5 GENERATOR ANCHORAGE DETAIL
N.T.S.

SHELTER FOUNDATION NOTES:
1. CONTRACTOR SHALL VERIFY EXTENTS OF FOUNDATIONS AND COORDINATE WITH EQUIPMENT WUC & GENERATOR DRAWINGS. (BY OTHERS)
2. FASTEN EQUIPMENT WUC & GENERATOR TO FOUNDATION ACCORDING TO EQUIPMENT WUC & GENERATOR DRAWINGS (BY OTHERS)
3. COORDINATE CONSTRUCTION OF WUC & GENERATOR FOOTING WITH FOOTING OF ADJACENT STRUCTURES. (IF APPLICABLE)

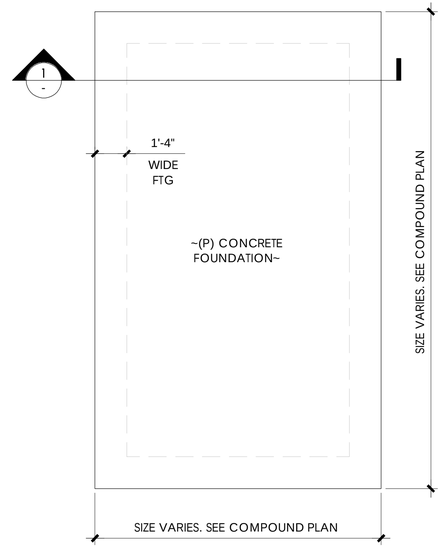
12 NOT USED
N.T.S.

9 NOT USED
N.T.S.

NOTE:
1. VERIFY (E) CONDUIT LOCATION AND CONDITION. DO NOT DAMAGE (E) CONDUIT. (E) CONDUIT TO BE ENCASED IN CONCRETE IF UNDER (N) CONCRETE PAD FOOTING.



6 TELCO TRENCH DETAIL
N.T.S.



3 CONCRETE FOUNDATION PLAN
N.T.S.

PREPARED FOR

AT&T

NEW CINGULAR WIRELESS PCS, LLC ("AT&T")
19801 SW 72ND AVE., STE. 200
TUALATIN, OR 97062

Vendor:

INFRASTRUCTURE PARTNERS

23 MAUCHLY #110
IRVINE, CA 92618

J5 PROJECT ID: P-068910

Issued For:

OL0734
OLYMPIA MISSION CREEK

1818 4TH AVENUE EAST
OLYMPIA, WA 98506
PARCEL ID: 80800400300

DRAWN BY: JBE

CHECKED BY:

REV	DATE	DESCRIPTION
A	11/07/22	90% CD

Licensor:

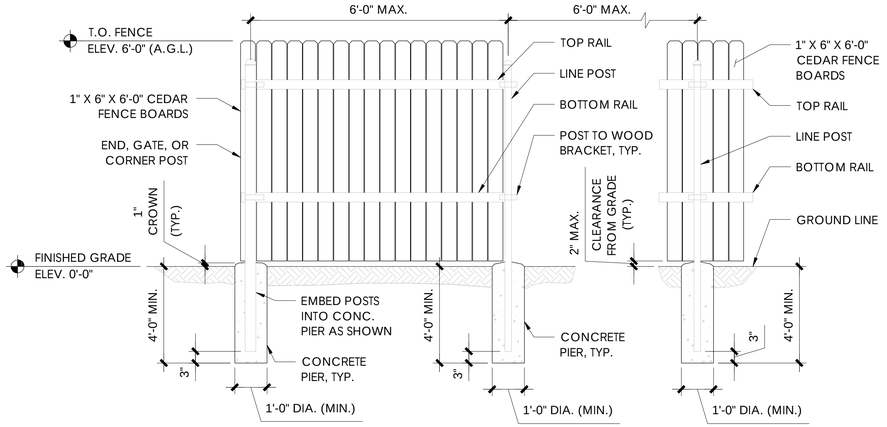
Sheet Title:
DETAILS

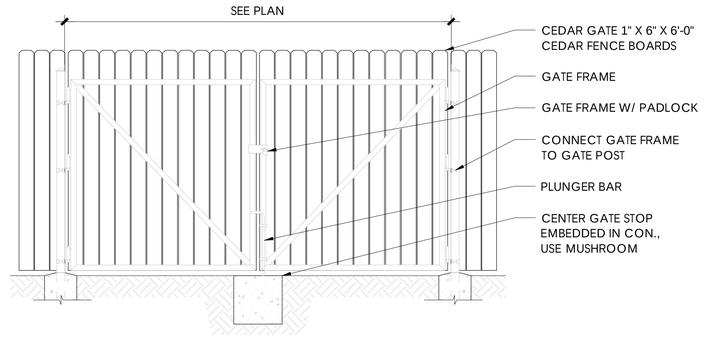
Sheet Number:
D-3

10 NOT USED
N.T.S.

7 NOT USED
N.T.S.

NOTES:
1. POST PIPE SIZES ARE FENCE INDUSTRY STANDARD. ALL PIPE TO BE GALV. (HOT-DIP, ASTM A120 GRADE "A" STEEL). CROSS BRACE ALL POSTS EXCEPT INTERMEDIATES.
2. FENCE LINE GRADE SHALL BE AS UNIFORM AS POSSIBLE SO THE TOP OF THE FENCE HAS A UNIFORM, SMOOTH APPEARANCE.
3. MINOR GRADING WORK ALONG THE FENCE MAY BE REQUIRED TO ACHIEVE UNIFORM FENCE GRADE.





5 CEDAR FENCE DETAIL
N.T.S.

11 NOT USED
N.T.S.

8 NOT USED
N.T.S.

12 NOT USED
N.T.S.

9 NOT USED
N.T.S.

6 NOT USED
N.T.S.

3 NOT USED
N.T.S.

PREPARED FOR

AT&T

NEW CINGULAR WIRELESS PCS, LLC ("AT&T")
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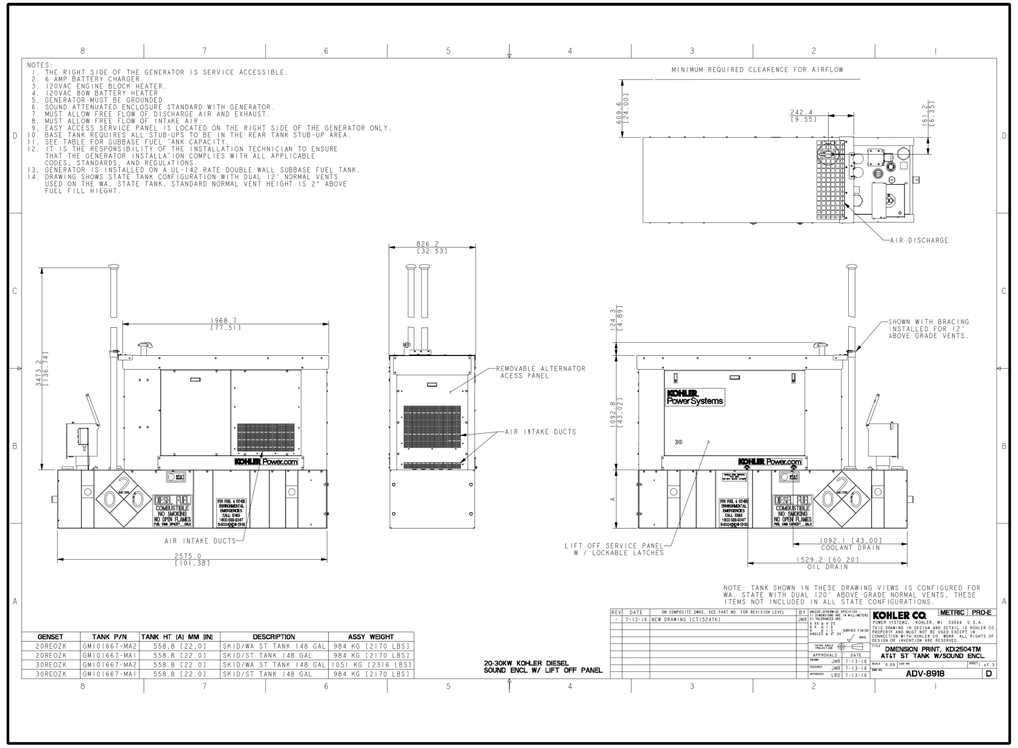
Licensor:

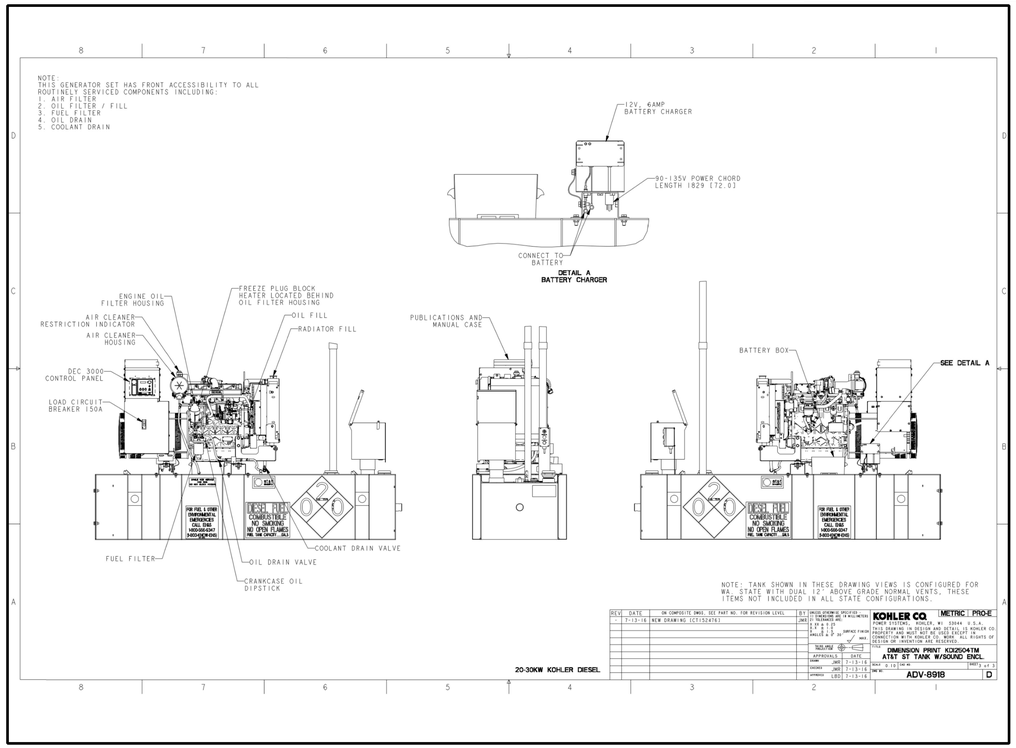
Sheet Title:
DETAILS

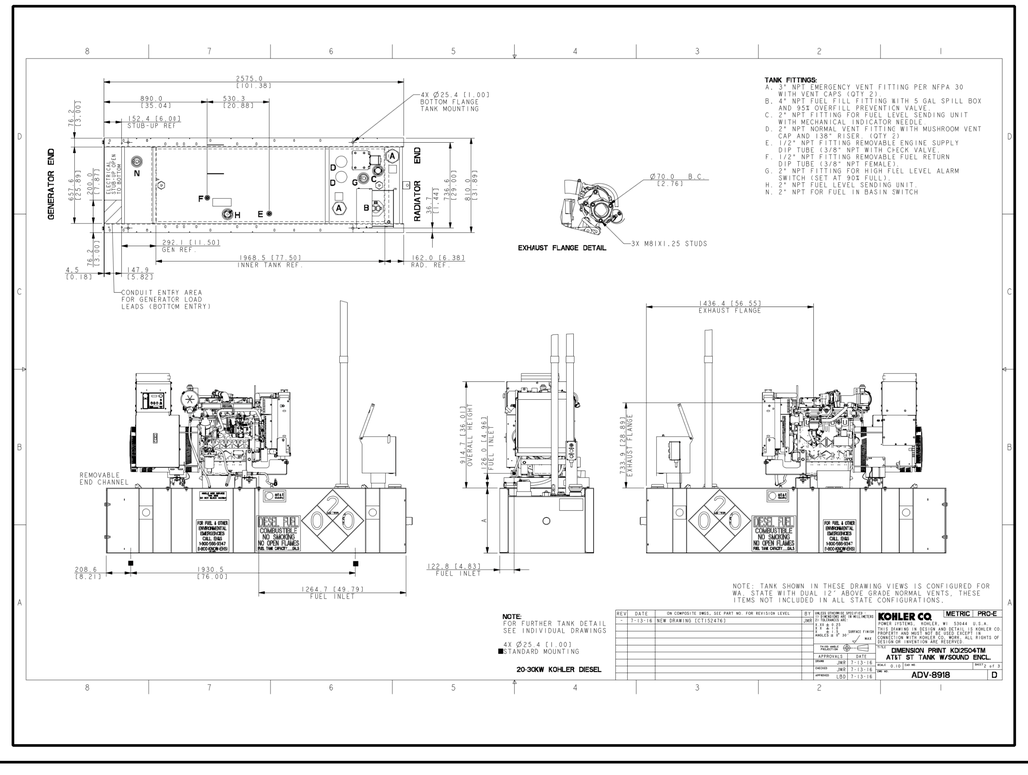
Sheet Number:
D-3.1

NOTE:
1. FOR INFORMATION PURPOSES ONLY.



GENSET	TANK P/N	TANK HT (A) MM (IN)	DESCRIPTION	ASSY WEIGHT
20REOZK	GM101667-MA2	558.8 [22.0]	SKID/WA ST TANK 148 GAL	984 KG [2170 LBS]
20REOZK	GM101667-MA1	558.8 [22.0]	SKID/ST TANK 148 GAL	984 KG [2170 LBS]
30REOZK	GM101667-MA2	558.8 [22.0]	SKID/WA ST TANK 148 GAL	1051 KG [2316 LBS]
30REOZK	GM101667-MA1	558.8 [22.0]	SKID/ST TANK 148 GAL	984 KG [2170 LBS]





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AT&T

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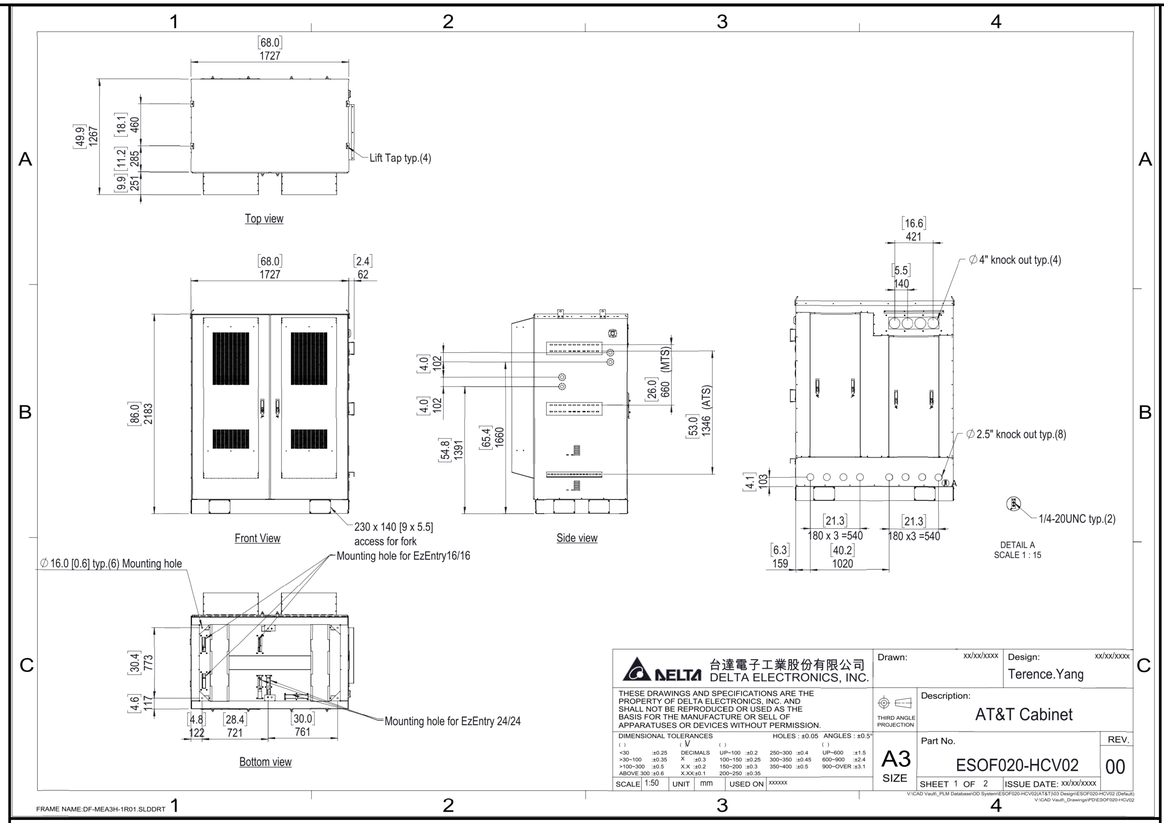
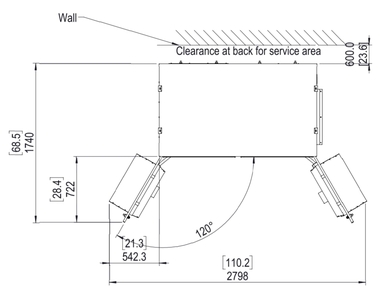
REV	DATE	DESCRIPTION
A	11/07/22	90% CD

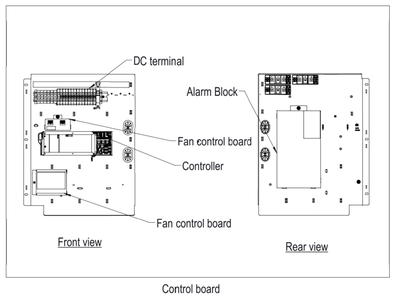
Licensor:

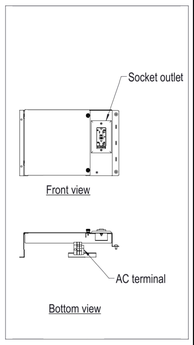
Sheet Title:
GENERATOR DETAILS

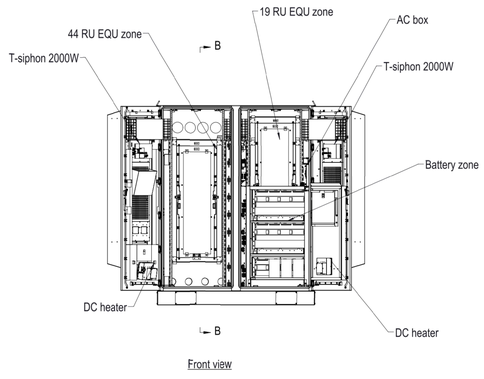
Sheet Number:
D-4

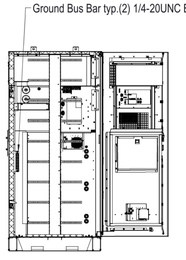


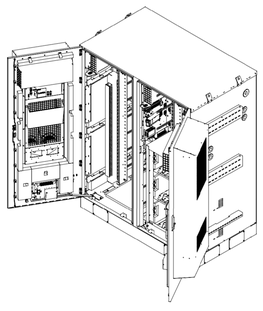












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CHECKED BY:

REV	DATE	DESCRIPTION
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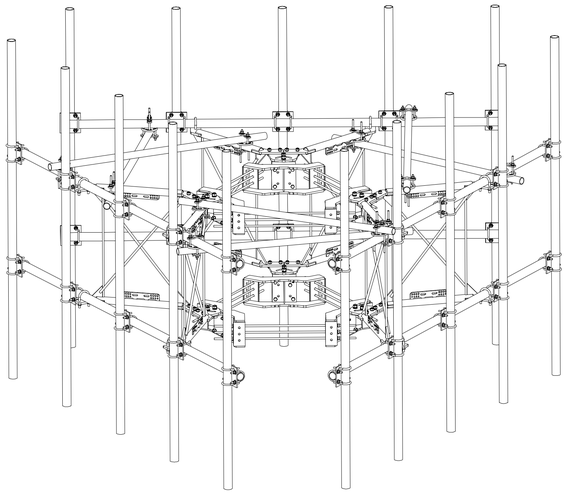
Licensor:

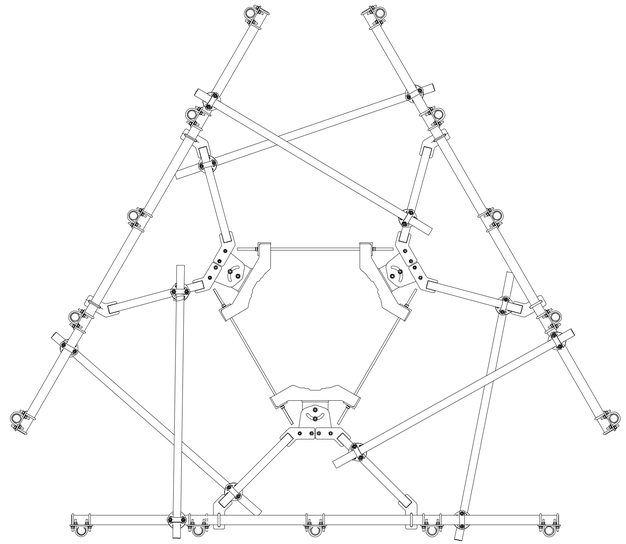
Sheet Title:
WALK-IN CABINET (WIC) DETAILS

Sheet Number:
D-5

NOTE:
1. FOR INFORMATION PURPOSES ONLY.



PARTS LIST						
ITEM	QT	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	6	X-LWRM	RING MOUNT WELDMENT		68.81	412.85
2	6	X-RMBP	RING MOUNT BENT PLATE CONNECTION	15 1/2 in	17.02	102.13
3	6	X-VFAPL4	VFA-HD PIVOT PLATE	12 in	15.88	95.30
4	6	X-VFAW	SUPPORT ARM		71.41	428.44
5	30	SCX2	CROSSOVER PLATE	7 in	4.80	143.89
6	6	P284	2-3/8" X 84" SCH 40 GALVANIZED PIPE	84 in	26.91	161.47
7	15	P30120	2-7/8" x 120" (2-1/2" SCH. 40) GALVANIZED PIPE	120 in	58.07	870.99
8	6	P30150	2-7/8" X 150" (2-1/2" SCH. 40) GALVANIZED PIPE	150 in	76.94	461.62
9	12	X-127594	FLAT DISK CLAMP PLATE 4" CENTERS (GALV.)		2.51	30.08
10	24	X-100064	CLAMP (4" V-CLAMP) GALVANIZED		0.92	22.12
11	12	A34212	3/4" x 2-1/2" UNC HEX BOLT (A325)	2 1/2 in	0.48	5.75
12	18	G34FW	3/4" HDG USS FLATWASHER		0.06	1.06
13	12	G34LW	3/4" HDG LOCKWASHER		0.04	0.51
14	12	G34NUT	3/4" HDG HEAVY 2H HEX NUT		0.21	2.55
15	18	G58R-48	5/8" x 48" THREADED ROD (HDG.)		4.18	75.27
16	12	X-UB5300	5/8" X 3" X 5-1/4" X 2-1/2" U-BOLT (HDG.)		1.15	13.79
17	24	A582112	5/8" x 2-1/2" HDG A325 HEX BOLT	2 1/2 in	0.33	8.02
18	24	A582114	5/8" x 2-1/4" HDG A325 HEX BOLT	2 1/4 in	0.31	7.50
19	108	G58LW	5/8" HDG LOCKWASHER		0.03	2.82
20	108	G58NUT	5/8" HDG HEAVY 2H HEX NUT		0.13	14.03
21	120	X-UB1300	1/2" X 3" X 5" X 2" GALV U-BOLT		0.74	88.64
22	24	G12065	1/2" x 6-1/2" HDG HEX BOLT GR5 FULL THREAD	5 1/2 in	0.41	9.83
23	24	G1204	1/2" x 4" HDG HEX BOLT GR5 FULL THREAD	4 in	0.27	6.48
24	288	G12FW	1/2" HDG USS FLATWASHER	3/32 in	0.03	9.82
25	288	G12LW	1/2" HDG LOCKWASHER	1/8 in	0.01	4.00
26	288	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	20.63
					TOTAL WT. #	2999.58



TOLERANCE NOTES
TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:
SAWED, SHEARED AND GAS CUT EDGES (± 0.030")
DRILLED AND GAS CUT HOLES (± 0.030") - NO CONING OF HOLES
LASER CUT EDGES AND HOLES (± 0.010") - NO CONING OF HOLES
BENDS ARE ± 1/2 DEGREE
ALL OTHER MACHINING (± 0.030")
ALL OTHER ASSEMBLY (± 0.060")

DESCRIPTION: THREE SECTORS HEAVY WLL FRAME AND MONOPOLE ATTACHMENT HARDWARE WITH FIVE MOUNTING PIPES

SITE PRO 1 — Engineering Support Team: 1-888-753-7446 — Locations: New York, NY; Atlanta, GA; Los Angeles, CA; Plymouth, IN; Salem, OR; Dallas, TX — A valmont COMPANY

CPD NO.	DRAWN BY	ENG. APPROVAL	PART NO.	PAGE
	CEK 10/26/2018		VFA12-M3-WLL	1 OF 4
CLASS SUB	DRAWING USAGE	CHECKED BY	DWG. NO.	
81 02	CUSTOMER	BMC 10/29/2018	VFA12-M3-WLL	

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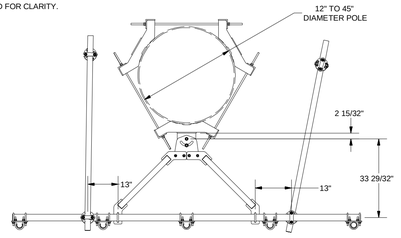
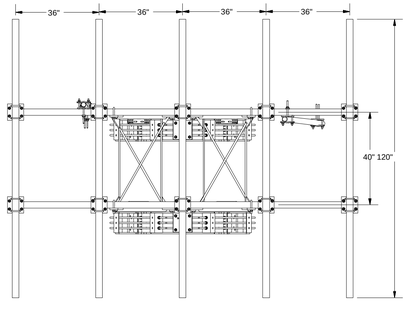
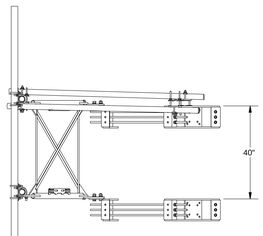
NOTE:
OTHER SECTORS REMOVED FOR CLARITY.







TOLERANCE NOTES
TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:
SAWED, SHEARED AND GAS CUT EDGES (± 0.030")
DRILLED AND GAS CUT HOLES (± 0.030") - NO CONING OF HOLES
LASER CUT EDGES AND HOLES (± 0.010") - NO CONING OF HOLES
BENDS ARE ± 1/2 DEGREE
ALL OTHER MACHINING (± 0.030")
ALL OTHER ASSEMBLY (± 0.060")

DESCRIPTION: THREE SECTORS HEAVY WLL FRAME AND MONOPOLE ATTACHMENT HARDWARE WITH FIVE MOUNTING PIPES

SITE PRO 1 — Engineering Support Team: 1-888-753-7446 — Locations: New York, NY; Atlanta, GA; Los Angeles, CA; Plymouth, IN; Salem, OR; Dallas, TX — A valmont COMPANY

CPD NO.	DRAWN BY	ENG. APPROVAL	PART NO.	PAGE
	CEK 10/26/2018		VFA12-M3-WLL	3 OF 4
CLASS SUB	DRAWING USAGE	CHECKED BY	DWG. NO.	
81 02	CUSTOMER	BMC 10/29/2018	VFA12-M3-WLL	

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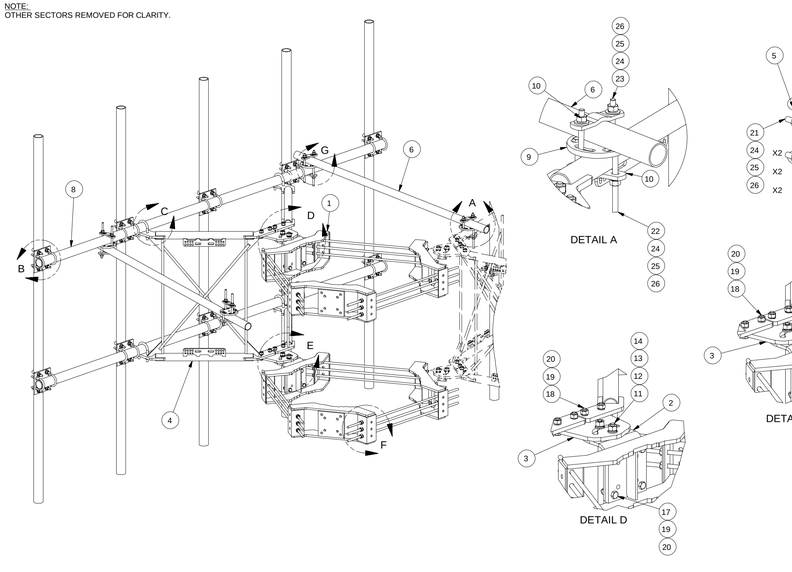

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PREPARED FOR

AT&T

NEW CINGULAR WIRELESS PCS, LLC ("AT&T")
19801 SW 72ND AVE., STE. 200
TUALATIN, OR 97062

Vendor:

J5 INFRASTRUCTURE PARTNERS

23 MAUCHLY #110
IRVINE, CA 92618

J5 PROJECT ID: P-068910

Issued For:

OL0734
OLYMPIA MISSION CREEK

1818 4TH AVENUE EAST
OLYMPIA, WA 98506
PARCEL ID: 80800400300

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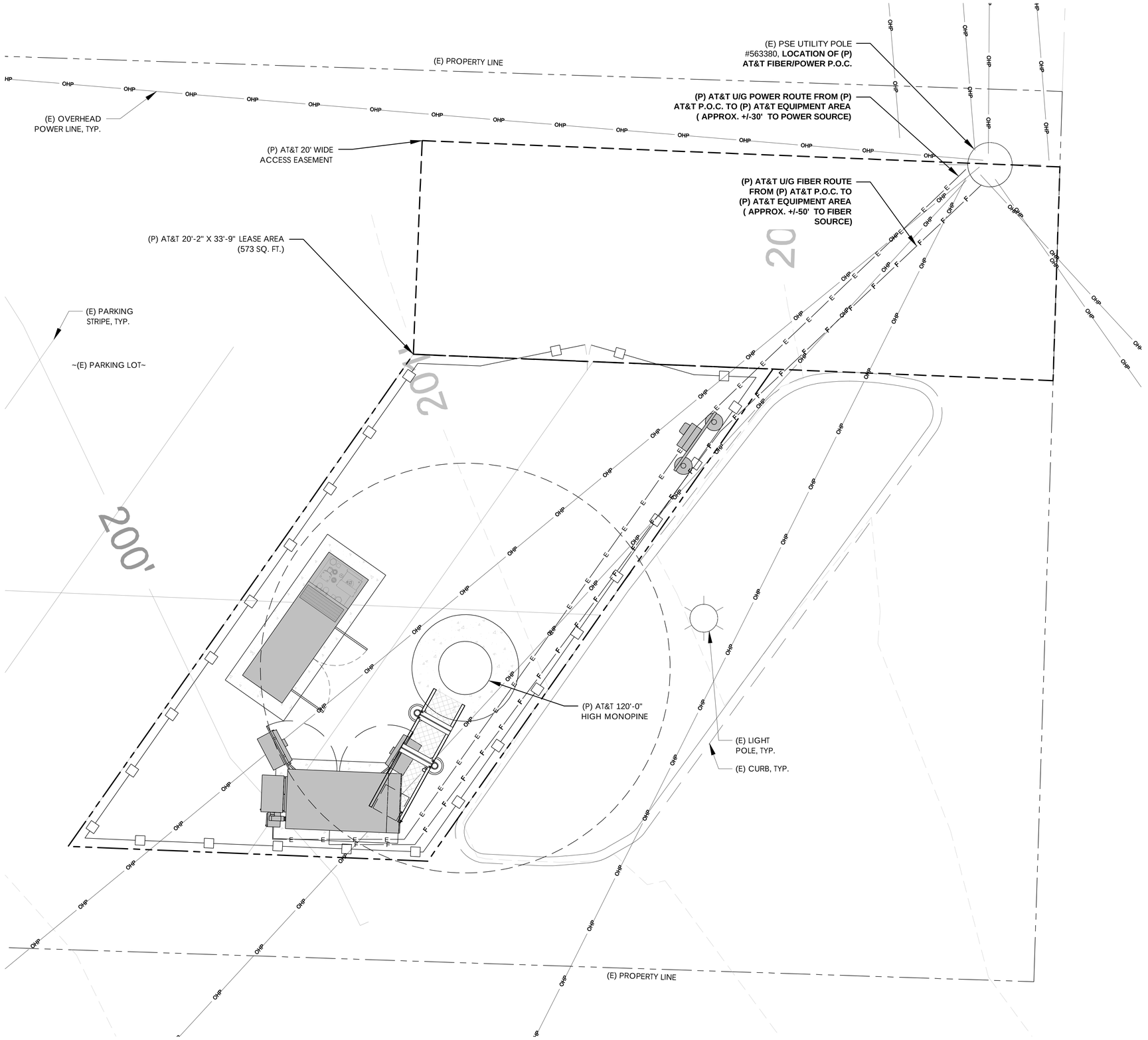
ANTENNA MOUNT DETAILS

Sheet Number:
D-6



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UTILITY PLAN

Sheet Number:

E-1

UTILITY PLAN

24"x36" SCALE: 3/8" = 1'-0" 2' 1' 0" 2' NORTH 1

NOTES:

1. ALL WORK TO CONFORM TO N.E.C. LATEST STATE ADOPTED EDITION.
2. LABEL SERVICE DISCONNECT WITH A RED TAG.
3. SWITCH LEG CONDUCTORS SHALL BE THE SAME COLOR AS CIRCUIT CONDUCTORS.
4. PULL ONE GROUND CONDUCTOR PER FLEXIBLE NONMETALLIC CONDUIT. FOR ALL OTHER CIRCUITS PULL A SEPARATE CONDUCTOR.
5. ALL GFCI RECEPTACLES TO HAVE A DEDICATED GROUND WIRE.
6. EQUIPMENT TERMINATION LUGS AND CONDUCTORS ARE RATED AT A MINIMUM OF 75°C.
7. CONDUIT REQUIREMENTS
   - UNDERGROUND PVC (SCH 40 OR 80)
   - INDOOR: EMT (RGS IN TRAFFIC AREAS)
   - OUTDOOR (ABOVE GRADE): RGS

ABBREVIATIONS:

BCW	BARE COPPER WIRE
BTS	BASE TRANSCEIVER STATION
C	CONDUIT
(E)	EXISTING
EG	EQUIPMENT GROUND
(F)	FUTURE
FACP	FIRE ALARM CONTROL PANEL
GEN	GENERATOR
IG	ISOLATED GROUND
IMC	INTERMEDIATE METAL CONDUIT
LFMC	LIQUID TIGHT FLEXIBLE METAL CONDUIT
MCM	MILLION CIRCULAR MILLS
MI	MECHANICAL INTERLOCK
MP&S	SEE MECHANICAL PLANS & SPECIFICATIONS
(N)	NEW
NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
NL	NIGHT LIGHT - FIXTURE TO BE UNSWITCHED
PFB	PROVISION FOR FUTURE BREAKER
PVC	POLYVINYL CHLORIDE CONDUIT
(R)	RELOCATE
RG	RELAY TO MONITOR GENERATOR POWER
RU	RELAY TO MONITOR UTILITY POWER
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
WP	WEATHERPROOF
GFCI	GROUND FAULT CIRCUIT INTERRUPTER

NOTE: SYMBOLS INDICATED ABOVE MAY NOT NECESSARILY APPEAR AS PART OF THESE DRAWINGS IF NOT REQUIRED.

VOLTAGE: 120/240V, 1 PHASE, 200A, 22 KAIC
MAIN CB: 2P/200A
BRANCH CB: TYPE Ø0

PANEL 'A'

MOUNTING: SURFACE
NEMA: 3R
LOCATION: MOUNTED ON SHELTER EXTERIOR WALL

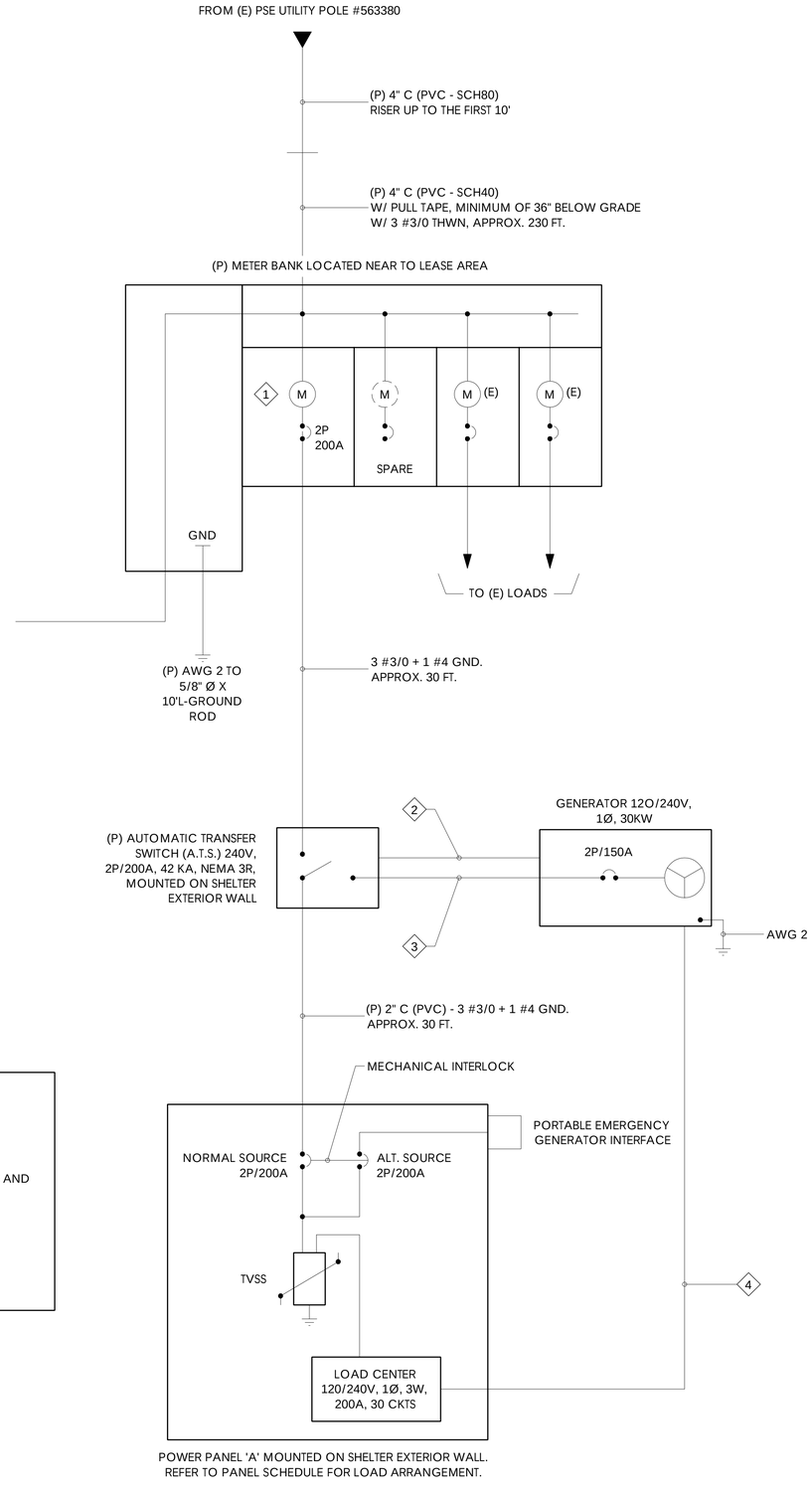
VOLT AMPS PHASE A	VOLT AMPS PHASE B	DESCRIPTION	POLE	BKR	CKT	A	B	CKT	BKR	POLE	DESCRIPTION	VOLT AMPS PHASE A	VOLT AMPS PHASE B
2112		SHELVES 1 & 3 RECTIFIERS	2	30	1			2	20	1	G.F.I. (INTERNAL)	180	
	2112	-	-	-	3			4	30	2	SHELVES 1 & 3 RECTIFIERS		2112
2112		SHELVES 1 & 3 RECTIFIERS	2	30	5			6	-	-	-	2112	
	2112	-	-	-	7			8	30	2	SHELVES 2 & 4 RECTIFIERS		2112
2112		SHELVES 2 & 4 RECTIFIERS	2	30	9			10	-	-	-	2112	
	2112	-	-	-	11			12	30	2	SHELVES 1 & 3 RECTIFIERS		2112
		SPACE			13			14	-	-	-	2112	
					15			16			SPACE		
					17			18					
					19			20					
					21			22					
	180	G.F.I.	1	20	23			24	20	1	BATTERY CHARGER		360
1200		HVAC	2	20	25			26	20	1	HEATER	480	
	1200	-	-	-	27			28	15	1	EXT LIGHTS		100
720		OUTLETS	1	20	29			30	20	1	INTERIOR LIGHT	200	
8256	7716	VA/LINE										7196	6796

PHASE A = 15,452 PHASE B = 14,512

CONNECTED LOAD = 29,964 VA

CONNECTED AMPS = 124.9 A

2 AC PANEL SCHEDULE
N.T.S.



POWER PANEL 'A' MOUNTED ON SHELTER EXTERIOR WALL.
REFER TO PANEL SCHEDULE FOR LOAD ARRANGEMENT.

1 SINGLE-LINE DIAGRAM (SLD)
N.T.S.

KEY NOTES:

1. NOT USED
2. (P) 1" C (PVC) - 10 #14 FOR CONTROL AND START-UP. REFER TO GENERATOR AND A.T.S. SPECS. FOR WIRING CONNECTION.
3. (P) 2 "C (PVC) - 3 #3/0 + 1 #4 GND., APPROX. 30 FT.
4. (P) 1" C (PVC) - 4 #12 + 2 #12 GND. FOR BATTERY CHARGER & HEATER.

PREPARED FOR

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Vendor:

J5 INFRASTRUCTURE PARTNERS

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IRVINE, CA 92618

J5 PROJECT ID: P-068910

Issued For:

OL0734
OLYMPIA MISSION CREEK

1818 4TH AVENUE EAST
OLYMPIA, WA 98506
PARCEL ID: 80800400300

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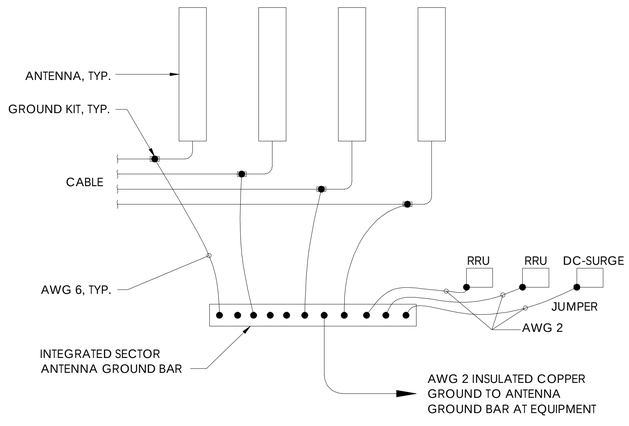
Sheet Title:
ELECTRICAL PANEL SCHEDULE & SLDG

Sheet Number:
E-2

GROUNDING NOTES:

1. ALL DETAILS ARE SHOWN IN GENERAL TERMS. ACTUAL GROUNDING INSTALLATION REQUIREMENTS AND CONSTRUCTION ACCORDING TO SITE CONDITIONS.
2. ALL GROUNDING CONDUCTORS: #2 AWG SOLID BARE TINNED COPPER WIRE UNLESS OTHERWISE NOTED.
3. GROUND BAR LOCATED IN BASE OF EQUIPMENT WILL BE PROVIDED, FURNISHED AND INSTALLED BY THE VENDOR.
4. ALL BELOW GRADE CONNECTIONS: EXOTHERMIC WELD TYPE, ABOVE GRADE CONNECTIONS: EXOTHERMIC WELD TYPE.
5. GROUND RING SHALL BE LOCATED A MINIMUM OF 24" BELOW GRADE OR 6" MINIMUM BELOW THE FROST LINE.
6. INSTALL GROUND CONDUCTORS AND GROUND ROD MINIMUM OF 1'-0" FROM EQUIPMENT CONCRETE SLAB, SPREAD FOOTING, OR FENCE.
7. EXOTHERMIC WELD GROUND CONNECTION TO FENCE POST: TREAT WITH A COLD GALVANIZED SPRAY.
8. GROUND BARS:
   A) 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.
9. ALL GROUNDING INSTALLATIONS AND CONNECTIONS SHALL BE MADE BY ELECTRICAL CONTRACTOR.
10. OBSERVE N.E.C. AND LOCAL UTILITY REQUIREMENTS FOR ELECTRICAL SERVICE GROUNDING.
11. GROUNDING ATTACHMENT TO TOWER SHALL BE AS PER MANUFACTURER'S RECOMMENDATIONS OR AT GROUNDING POINTS PROVIDED (2 MINIMUM).
12. 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.
13. GROUNDING AT PPC CABINET SHALL BE VERTICALLY INSTALLED.
14. ALL GROUNDING FOR ANTENNAS SHALL BE CONNECTED SO THAT IT WILL BY-PASS MAIN BUSS BAR.
15. ALL EMT RUNS SHALL BE GROUNDED AND HAVE A BUSHING, NO PVC ABOVE GROUND.
16. USE SEPARATE HOLES FOR GROUNDING AT BUSS BAR. NO "DOUBLE-UP" OF LUGS.
17. POWER AND TELCO CABINETS SHALL BE GROUNDED (BONDED) TOGETHER.
18. NO LB'S ALLOWED ON GROUNDING.
19. PROVIDE STAINLESS STEEL CLAMP AND BRASS TAGS ON COAX AT ANTENNAS AND DOGHOUSE.
20 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.
21 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).
22 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 ANTIOXIDANT (COPPER SHIELD) BEFORE MAKING THE CONNECTIONS. THE MANUFACTURER'S TORQUING RECOMMENDATIONS ON THE BOLT ASSEMBLY TO SECURE CONNECTIONS SHALL BE FOLLOWED.
23 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.
24 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.
25 PROVIDE PVC SLEEVES WHERE GROUNDING CONDUCTORS PASS THROUGH THE BUILDING WALLS AND /OR CEILINGS.
26. INSTALL GROUND BUSHINGS ON ALL METALLIC CONDUITS AND BOND TO THE EQUIPMENT GROUND BUSS IN THE PANEL BOARD.
27 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.
28. ALL PROPOSED GROUNDING CONDUCTORS SHALL BE ROUTED AND CONNECTED TO THE MAIN GROUND BAR OR EXISTING GROUND RING.

3 GROUNDING NOTES
N.T.S.



NOTES:
1. GROUND BAR LOCATION IS SCHEMATIC AS SHOWN ON THIS SHEET AND ACTUAL LOCATION OF INSTALLATION WILL BE DETERMINED BY THE INSTALLER.
2. REFER TO ANTENNA PLAN FOR EXACT NUMBER OF ANTENNA, RRU AND DC SURGE SUPPRESSOR

4 TYP. ANTENNA GROUNDING DIAGRAM

1 NOT USED

2 NOT USED

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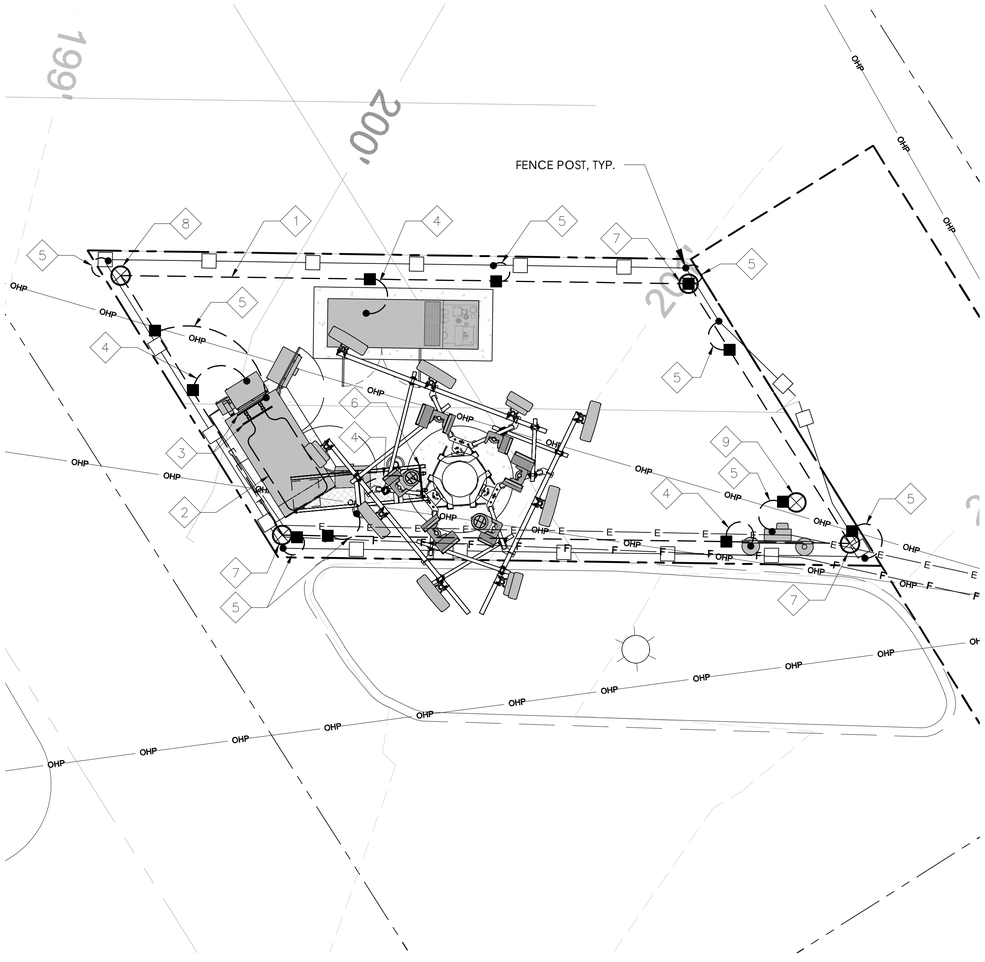
Sheet Title:
GROUNDING NOTES

Sheet Number:
G-1

KEY NOTES:

1. (P) AWG 2 BCW GROUND RING BURIED 30" BELOW GRADE.
2. (P) AWG 2 INSULATED COPPER GROUND (HALO GROUND) CONNECTED TO EQUIP. INSIDE THE WUC PROVIDED AND INSTALLED BY WUC MANUFACTURER
3. (P) EQUIP. GROUND BAR INSIDE AND OUTSIDE OF WUC.
4. (P) AWG 2 INSULATED COPPER GROUND.
5. (P) AWG 2 BCW.
6. (P) ANTENNA GROUND BAR AT BOTTOM OF MONOPOLE.
7. (P) GROUND ROD.
8. (P) GROUND TEST WELL.
9. (P) ISOLATED GROUND ROD.



GROUNDING LEGEND

- CADWELD CONNECTION (EXOTHERMIC WELD)
- MECHANICAL CONNECTION
- GROUND ROD

EQUIPMENT GROUNDING PLAN

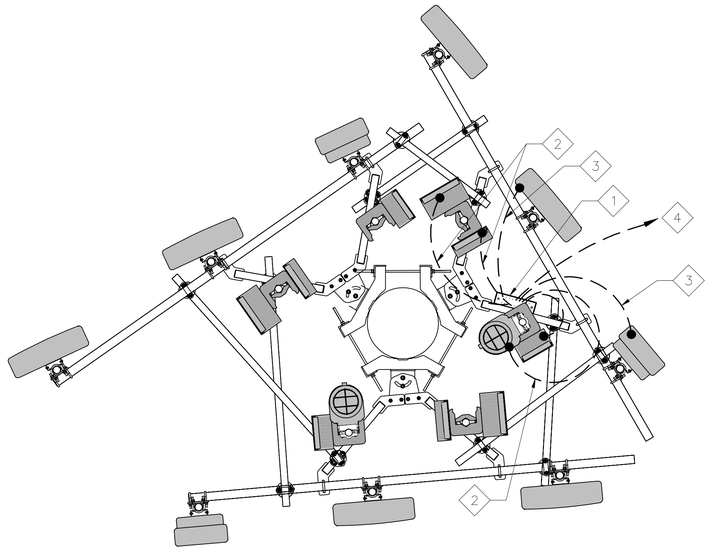
24"x36" SCALE: 1/4" = 1'-0" 4' 3' 2' 1' 0" 4'

NORTH

3

KEY NOTES:

1. ANTENNA GROUND BAR AT EACH SECTOR.
2. AWG 2 INSULATED COPPER GROUND FROM (P) RRH AND DC9.
3. AWG 6 INSULATED COPPER GROUND WIRE FROM ANTENNA GROUND KIT TO ANTENNA GROUND BAR.
4. AWG 2 INSULATED COPPER GROUND TO ANTENNA GROUND BAR AT BOTTOM OF POLE



GROUNDING LEGEND

- CADWELD CONNECTION (EXOTHERMIC WELD)
- MECHANICAL CONNECTION
- GROUND ROD

ANTENNA GROUNDING PLAN (TYP. PER SECTOR)

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

NORTH

1

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GROUNDING PLANS

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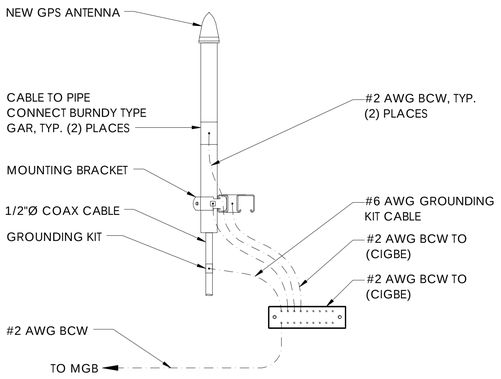
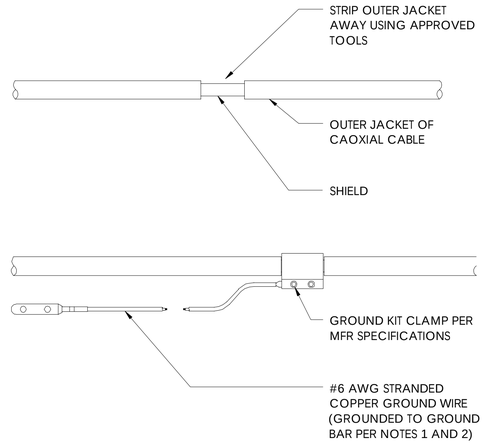
G-2



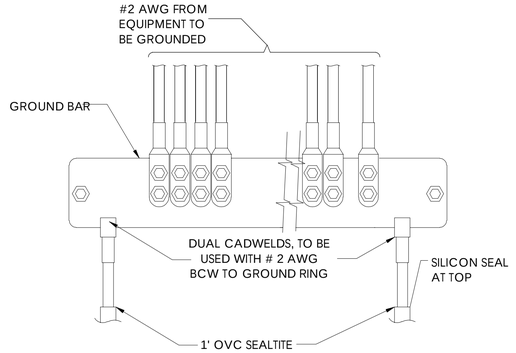
10 GPS ANTENNA GROUNDING
N.T.S.

NOTES:

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR
2. GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MFR
3. WEATHER PROOFING SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY THE CABLE MFR



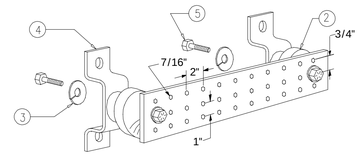
8 GROUND KIT
N.T.S.



NOTE:
1. CONTRACTOR TO UTILIZE KOPR-SHIELD (THANS & BETTS) ON ALL LUG CONNECTIONS OR APPROVED EQUAL
2. ALL LUGS TO BE DUAL HOLE LONG BARREL AND CRIMPED TWICE WITH MFR'S RECOMMENDED TOOL

4 GROUND BAR CONNECTION
N.T.S.

1 NOT USED
N.T.S.



LEGEND

1- COPPER GROUND BAR, "X 1/4"X 20", NEWTON INSTRUMENT CO. CAT. NO. B-6142 OR EQUAL. HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION. (ACTUAL GROUND BAR SIZE WILL VARY BASED ON NUMBER OF GROUND CONNECTIONS)

2- INSULATORS, NEWTON INSTRUMENT CAT. NO. 3061-4 OR EQUAL

3- 5/8" LOCKWASHERS, NEWTON INSTRUMENT CO. CAT. NO. 3015-8 OR EQUAL

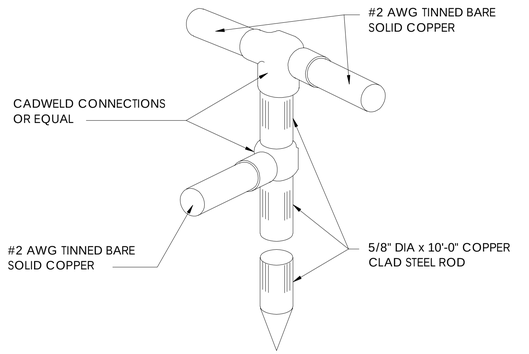
4- WALL MOUNTING BRACKET, NEWTON INSTRUMENT CO. CAT NO. A-6056 OR EQUAL

5- 5/8-11 X 1" HHCS BOLTS, NEWTON INSTRUMENT CO. CAT NO. 3012-1 OR EQUAL

6- INSULATORS SHALL BE ELIMINATED WHEN BONDING DIRECTLY TO TOWER/MONOPOLE STRUCTURE. CONNECTION TO TOWER/MONOPOLE STRUCTURE SHALL BE PER MANUFACTURERS RECOMMENDATIONS.

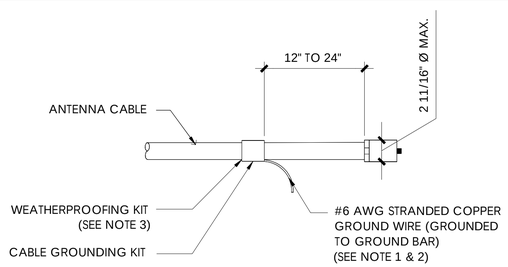
NOTE: ALL HARDWARE SHALL BE STAINLESS STEEL

5 GROUND BAR DETAIL
N.T.S.



2 GROUND ROD DETAIL
N.T.S.

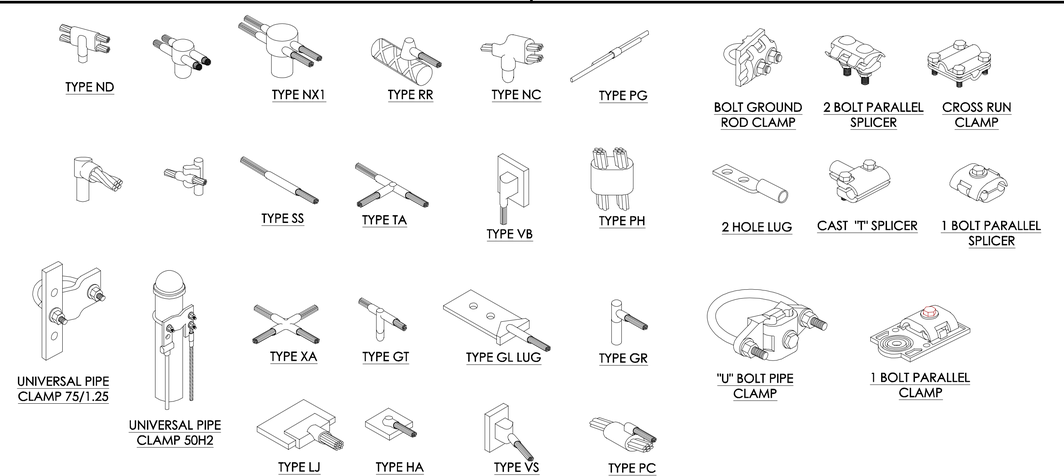
11 NOT USED
N.T.S.



NOTE:

1 DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT WIRE DOWN TO GROUND BAR.
2. GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.
3. WEATHER PROOFING SHALL BE (TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.)

9 CONNECTION OF GROUND KIT TO ANTENNA CABLE
N.T.S.



6 TYPICAL MECHANICAL CONNECTIONS
N.T.S.

12 NOT USED
N.T.S.

PREPARED FOR

AT&T

NEW CINGULAR WIRELESS PCS, LLC ("AT&T")
19801 SW 72ND AVE., STE. 200
TUALATIN, OR 97062

Vendor:

J5 INFRASTRUCTURE PARTNERS

23 MAUCHLY #110
IRVINE, CA 92618

J5 PROJECT ID: P-068910

Issued For:

OL0734
OLYMPIA MISSION CREEK

1818 4TH AVENUE EAST
OLYMPIA, WA 98506
PARCEL ID: 80800400300

DRAWN BY: JBE

CHECKED BY:

REV	DATE	DESCRIPTION
A	11/07/22	90% CD

Licensor:

Sheet Title:

GROUNDING DETAILS

Sheet Number:

G-3