

at&t

POWDER MOUNTAIN

NSB MONOPOLE



4393 RIVERBOAT ROAD, SUITE #400
TAYLORSVILLE, UTAH 84123

GENERAL DYNAMICS
Information Technology

1152 W 2400 S, SUITE C
SALT LAKE CITY, UTAH 84119



Technology Associates

UTAH MARKET OFFICE

9847 SOUTH 500 WEST
SANDY, UTAH 84070
(801) 463-1020

ENGINEERING

2009 INTERNATIONAL BUILDING CODE
2009 NATIONAL ELECTRIC CODE
TIA-222-G OR LATEST EDITION

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 NEW.

PROJECT DESCRIPTION

THE PROJECT CONSISTS OF THE INSTALLATION AND OPERATION OF ANTENNAS AND ASSOCIATED EQUIPMENT & CABINETS FOR AT&T'S WIRELESS TELECOMMUNICATIONS NETWORK.

SITE INFORMATION

PROPERTY OWNER: -
ADDRESS: POWDER MOUNTAIN EDEN, UT 84310

TOWER OWNER: AT&T
SITE NAME: POWDER MOUNTAIN

SITE CONTACT: -

COUNTY: WEBER

LATITUDE (NAD 83) 41° 22' 10.76" N

LONGITUDE (NAD 83) 111° 45' 50.03" W

ZONING JURISDICTION: WEBER COUNTY

ZONING CLASSIFICATION: -

PARCEL #: -

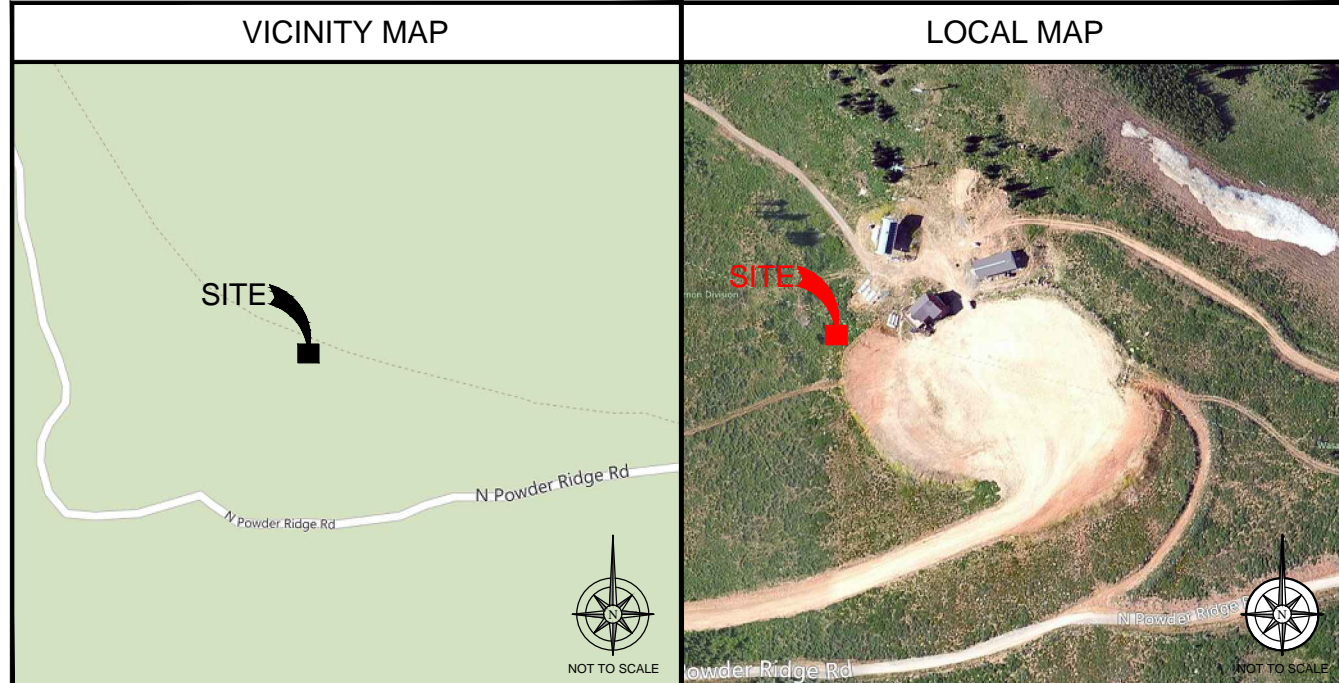
POWER COMPANY: ROCKY MTN POWER

TELEPHONE COMPANY: C.L.

SITE ACQUISITION CONTACT: JARED WHITE
(801) 232-0953

RF ENGINEER: ENIKO BARTHA
(972) 358-5732

CONSTRUCTION MANAGER: TROY HALL
(801) 201-8192



DRIVING DIRECTIONS

- STARTING FROM AT&T OFFICE, 4393 RIVERBOAT ROAD, TAYLORSVILLE, UT:
- DEPART RIVERBOAT RD TOWARD UT-266 W / W 4500 S
 - TURN LEFT ONTO UT-266 E / W 4500 S
 - TAKE RAMP LEFT FOR I-15 N
 - KEEP STRAIGHT ONTO I-15 N / I-84 W
 - AT EXIT 344, TAKE RAMP RIGHT AND FOLLOW SIGNS FOR UT-39
 - TURN RIGHT ONTO UT-39 / W 12TH ST / W 1200 S
 - TURN LEFT ONTO UT-158
 - KEEP RIGHT TO STAY ON UT-158 / N UT-158
 - TURN RIGHT ONTO SUGAR PINE DR
 - ROAD NAME CHANGES TO N POWDER RIDGE RD
 - FOLLOW ROAD UP TO HIDDEN LAKE EXPRESS
 - SITE IS LOCATED ON WEBER COUNTY SIDE OF COUNTY LINE

APPROVALS

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

AT&T WIRELESS COMPLIANCE REPRESENTATIVE: _____ DATE: _____

AT&T WIRELESS REPRESENTATIVE: _____ DATE: _____

AT&T WIRELESS RF ENGINEER: _____ DATE: _____

GENERAL DYNAMICS SITE ACQUISITION: _____ DATE: _____

TAEC SITE ACQUISITION: _____ DATE: _____

PROPERTY OWNER: _____ DATE: _____

GENERAL DYNAMICS CONSTRUCTION MANAGER: _____ DATE: _____

THE INFORMATION CONTAINED IN THIS SET OF DRAWINGS IS PROPRIETARY & CONFIDENTIAL. ANY USE OR DISCLOSURE OTHER THAN AS IT RELATES TO IS STRICTLY PROHIBITED.

DRAWING INDEX

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DO NOT SCALE DRAWINGS

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



Know what's below.
CALL before you dig.

CALL AT LEAST TWO WORKING
DAYS BEFORE YOU DIG

POWDER MOUNTAIN

POWDER MOUNTAIN
EDEN, UT 84310
NSB MONOPOLE

SHEET TITLE

TITLE SHEET

SHEET NUMBER

T-1

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

GENERAL NOTES

- THIS FACILITY IS EXEMPT FROM HANDICAP REQUIREMENTS PER 2010 CBC SECTION 1105B.3.4 EXCEPTION #1. THIS FACILITY IS NON-OCCUPIABLE SPACE AND ENTERED ONLY BY SERVICE PERSONNEL. THIS SPACE IS NOT FOR HUMAN OCCUPANCY.
- THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO SUBMITTING HIS BID. ANY DISCREPANCIES, CONFLICTS OR OMISSIONS SHALL BE REPORTED TO THE ENGINEER PRIOR TO SUBMITTING BIDS, AND PROCEEDING WITH ANY WORK.
- THE CONTRACTOR SHALL NOTIFY ENGINEER OF ANY ERRORS, OMISSIONS, OR DISCREPANCIES AS THEY MAY BE DISCOVERED IN THE PLANS, SPECIFICATIONS, & NOTES PRIOR TO STARTING CONSTRUCTION, INCLUDING BUT NOT LIMITED BY DEMOLITION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING ANY ERRORS, OMISSION, OR INCONSISTENCY AFTER THE START OF CONSTRUCTION WHICH HAS NOT BEEN BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER AND SHALL INCUR ANY EXPENSES TO RECTIFY THE SITUATION. THE METHOD OF CORRECTION SHALL BE APPROVED BY THE ARCHITECT OR THE ENGINEER RESPONSIBLE OF THE PROJECT.
- PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR HAS THE RESPONSIBILITY TO LOCATE ALL EXISTING UTILITIES, WHETHER OR NOT SHOWN ON THE PLANS, AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR OR SUBCONTRACTOR SHALL BEAR THE EXPENSE OF REPAIRING OR REPLACING ANY DAMAGE TO THE UTILITIES CAUSED DURING THE EXECUTION OF THE WORK. CONTACT USA DIG ALERT @ 811
- PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL PROTECT ALL AREAS FROM DAMAGE WHICH MAY OCCUR DURING CONSTRUCTION. ANY DAMAGE TO NEW OR EXISTING SURFACES, STRUCTURES OR EQUIPMENT SHALL BE IMMEDIATELY REPAIRED OR REPLACED TO THE SATISFACTION OF THE PROPERTY OWNER. THE CONTRACTOR SHALL BEAR THE EXPENSE OF REPAIRING OR REPLACING ANY DAMAGED AREAS.
- A COPY OF THE APPROVED PLANS SHALL BE KEPT IN A PLACE SPECIFIED BY THE GOVERNING AGENCY, AND BY LAW SHALL BE AVAILABLE FOR INSPECTION AT ALL TIMES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE ALL CONSTRUCTION SETS REFLECT THE SAME INFORMATION AS THE APPROVED PLANS. THE CONTRACTOR SHALL ALSO MAINTAIN ONE SET OF PLANS AT THE SITE FOR THE PURPOSE OF DOCUMENTING ALL AS-BUILT CHANGES, REVISIONS, ADDENDA, OR CHANGE ORDERS. THE CONTRACTOR SHALL FORWARD THE AS-BUILT/HIRED DRAWINGS TO THE ARCHITECT OR THE ENGINEER RESPONSIBLE OF THE PROJECT AT THE CONCLUSION OF THE PROJECT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE SECURITY OF THE SITE WHILE THE WORK IS IN PROGRESS UNTIL THE JOB IS COMPLETE.
- THE CONTRACTOR IS RESPONSIBLE TO PROVIDE TEMPORARY POWER, WATER, AND TOILET FACILITIES AS REQUIRED BY THE PROPERTY OWNER OR GOVERNING AGENCY.
- ALL CONSTRUCTION THROUGH THE PROJECT SHALL CONFORM TO THE LATEST C.B.C. AND ALL OTHER GOVERNING CODES, INCLUDING THE CALIFORNIA ADMINISTRATIVE CODES TITLE 8, 19, AND 24. THE MOST RESTRICTIVE CODE SHALL GOVERN.
- THE CONTRACTOR AND SUBCONTRACTOR SHALL COMPLY WITH ALL LOCAL AND STATE REGULATIONS INCLUDING ALL OSHA REQUIREMENTS.
- WHEN REQUIRED STORAGE OF MATERIALS OCCURS, THEY SHALL BE EVENLY DISTRIBUTED OVER THE FLOOR OR ROOF SO AS NOT TO EXCEED THE DESIGNED LIVE LOADS FOR THE STRUCTURE. TEMPORARY SHORING OR BRACING SHALL BE PROVIDED WHERE THE STRUCTURE OR SOIL HAS NOT ATTAINED THE DESIGN STRENGTH FOR THE CONDITIONS PRESENT.
- THE CONTRACTOR SHALL SUPERVISE AND COORDINATE ALL WORK, USING HIS PROFESSIONAL KNOWLEDGE AND SKILLS. HE IS SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, PROCEDURES AND SEQUENCING AND COORDINATING ALL PORTIONS OF THE WORK UNDER THE PROJECT.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN AND PAY FOR ALL PERMITS, LICENSES AND INSPECTIONS WITH RESPECT TO THE WORK TO COMPLETE THE PROJECT. BUILDING PERMIT APPLICATIONS SHALL BE FILED BY THE OWNER OR AUTHORIZED AGENT. CONTRACTOR SHALL OBTAIN THE PERMIT AND MAKE FINAL PAYMENT OF SAID DOCUMENT.
- ALL DIMENSIONS TAKE PRECEDENCE OVER SCALE. DRAWINGS ARE NOT TO BE SCALED UNDER ANY CIRCUMSTANCES.
- THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BLOCKING, BACKING, FRAMING, HANGERS, OR SUPPORTS FOR INSTALLATION OF ITEMS INDICATED ON THE DRAWINGS.
- THE CONTRACTOR SHALL PROVIDE THE FIRE MARSHALL OR U.L. APPROVED MATERIALS TO FILL/SEAL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES.
- NEW CONSTRUCTION ADDED TO EXISTING CONSTRUCTION SHALL BE MATCHED IN FORM, TEXTURE, MATERIAL AND PAINT COLOR EXCEPT AS NOTED IN THE PLANS.
- THE CONTRACTOR IS TO PROVIDE PORTABLE FIRE EXTINGUISHERS HAVING A MINIMUM 2A:10-B:C RATING WITHIN 75FT. OF TRAVEL TO ALL PORTIONS OF THE CONSTRUCTION AREA. (2010 CFC SECTION 906.1-1 & 7 AND SECTION 906.3.1)
- MATERIALS TESTING SHALL BE TO THE LATEST STANDARDS AVAILABLE AS REQUIRED BY THE LOCAL GOVERNING AGENCY RESPONSIBLE FOR APPROVING THE RESULTS.
- ALL GENERAL NOTES AND STANDARD DETAILS ARE THE MINIMUM REQUIREMENTS TO BE USED IN CONDITIONS WHICH ARE NOT SPECIFICALLY SHOWN OTHERWISE.
- ALL DEBRIS AND REFUSE IS TO BE REMOVED FROM THE PROJECT. PREMISES SHALL BE LEFT IN A CLEAN BROOM FINISHED CONDITION AT ALL TIMES.
- BUILDING INSPECTORS AND/OR OTHER BUILDING OFFICIALS ARE TO BE NOTIFIED PRIOR TO ANY GRADING AND CONSTRUCTION EFFORT AS MANDATED BY THE GOVERNING AGENCY.
- ALL SYMBOLS AND ABBREVIATIONS ARE CONSIDERED CONSTRUCTION INDUSTRY STANDARDS. IF A CONTRACTOR HAS A QUESTION REGARDING THEIR EXACT MEANING THE ARCHITECT OR THE ENGINEER RESPONSIBLE OF THE PROJECT SHALL BE NOTIFIED FOR CLARIFICATIONS.

GENERAL FIRE NOTES:

- BUILDINGS UNDERGOING CONSTRUCTION, ALTERATION, OR DEMOLITION SHALL BE IN ACCORDANCE WITH 2010 CFC SECTION 1401 AND ALL GOVERNING CODES.
- ADDRESS SHALL BE PROVIDED FOR ALL NEW AND EXISTING BUILDINGS IN A POSITION AS TO BE PLAINLY VISIBLE AND LEGIBLE FROM THE STREET OR ROAD FRONTING THE PROPERTY. (2010 CFC SECTION 505.1)
- DECORATIVE MATERIALS SHALL BE MAINTAINED IN A FLAME-RETARDANT CONDITION. (2010 CFC SECTION 807-1.2)
- PORTABLE FIRE EXTINGUISHERS: AT LEAST ONE FIRE EXTINGUISHER WITH A MINIMUM RATING OF 2-A:10-B:C SHALL BE PROVIDED WITHIN 75 FEET MAXIMUM TRAVEL DISTANCE FOR EACH 6,000 SQUARE FEET OR PORTION THEREOF ON EACH FLOOR. (2010 CFC SECTION 906.1.1 & 7 AND SECTION 906.3.1)

ABBREVIATION

| | |
|----------|------------------------------|
| A.B. | ANCHOR BOLT |
| ABV. | ABOVE |
| ACCA | ANTENNA CABLE COVER ASSEMBLY |
| ADDL | 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 |
| BTWCW. | 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 |

ABBREVIATION

| | |
|---------------|----------------------------------|
| 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 |
| GL. | 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.() | INCHES |
| INT. | INTERIOR |
| LB.(#) | POUND(S) |
| LB. | 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 |

ABBREVIATION

| | |
|---------|-------------------------|
| PWR. | POWER (CABINET) |
| QTY. | QUANTITY |
| RAD.(R) | RADIUS |
| REF. | REFERENCE |
| REINF. | REINFORCEMENT(ING) |
| REQD. | REQUIRED |
| RGS. | RIGID GALVANIZED STEEL |
| RRU. | RADIO REMOTE UNIT |
| SCH. | SCHEDULE |
| SHT. | SHEET |
| SIM. | SIMILAR |
| SPEC. | SPECIFICATION(S) |
| SQ. | SQUARE |
| S.S. | STAINLESS STEEL |
| STD. | STANDARD |
| STL. | STEEL |
| STRUC. | STRUCTURAL |
| TEMP. | TEMPORARY |
| THK. | THICKNESS |
| TMA | TOWER MOUNTED AMPLIFIER |
| 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) |
| WD. | WOOD |
| W.P. | WEATHERPROOF |
| WT. | WEIGHT |
| ℄ | CENTERLINE |
| ℄ | PLATE |

ABBREVIATIONS

| | | | | | |
|--|------------------------|--|---------------------|--|-----------------------------|
| | NEW ANTENNA | | GRID REFERENCE | | CENTERLINE |
| | EXISTING ANTENNA | | DETAIL REFERENCE | | PROPERTY/LEASE LINE |
| | GROUND ROD | | ELEVATION REFERENCE | | MATCH LINE |
| | GROUND BUS BAR | | SECTION REFERENCE | | WORK POINT |
| | MECHANICAL GRND. CONN. | | GROUT OR PLASTER | | GROUND CONDUCTOR |
| | CADWELD | | (E) BRICK | | TELEPHONE CONDUIT |
| | GROUND ACCESS WELL | | (E) MASONRY | | ELECTRICAL CONDUIT (POWER) |
| | ELECTRIC BOX | | CONCRETE | | COAXIAL CABLE |
| | TELEPHONE BOX | | EARTH | | OVERHEAD SERVICE CONDUCTORS |
| | LIGHT POLE | | GRAVEL | | CHAIN LINK FENCING |
| | FND. MONUMENT | | PLYWOOD | | |
| | SPOT ELEVATION | | SAND | | |
| | SET POINT | | WOOD CONT. | | |
| | REVISION | | WOOD BLOCKING | | |
| | | | STEEL | | |

2



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TAYLORSVILLE, UTAH 84123

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9847 SOUTH 500 WEST
SANDY, UTAH 84070
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| REV | DATE | DESCRIPTION | BY |
|-----|-----------|------------------------------|-----|
| F | 8/26/2013 | ISSUED FOR 100% CONSTRUCTION | NSV |
| E | 7/31/2013 | ISSUED FOR 100% CONSTRUCTION | NSV |
| D | 7/25/2013 | ISSUED FOR 100% CONSTRUCTION | NSV |
| C | 7/10/2013 | ISSUED FOR 100% CONSTRUCTION | NSV |
| B | 7/03/2013 | ISSUED FOR 90% CONSTRUCTION | NSV |
| A | 6/03/2013 | ISSUED FOR 90% CONSTRUCTION | NSV |

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

POWDER MOUNTAIN
POWDER MOUNTAIN
EDEN, UT 84310
NSB MONOPOLE

SHEET TITLE
GENERAL NOTES

SHEET NUMBER
T-4

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

NOTICE

Beyond This Point you are entering a controlled area where RF emissions *may exceed* the FCC General Population Exposure Limits.

Follow all posted signs and site guidelines for working in RF environment.

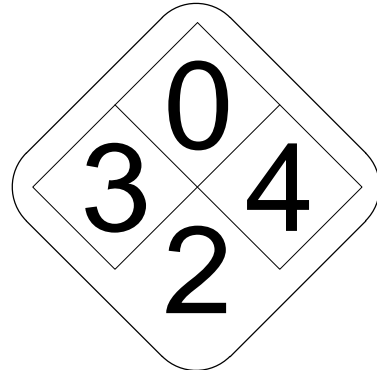
Ref: 47CFR 1.1307 (b)

CAUTION

Beyond This Point you are entering a controlled area where RF emissions *may exceed* the FCC Occupational Exposure Limits.

Obey all posted signs and site guidelines for working in RF environment.

Ref: 47CFR 1.1307 (b)



ALERTING SIGN

ALERTING SIGNS

WARNING!

DANGER DO NOT TOUCH TOWER!

SERIOUS "RF" BURN HAZARD!

MAINTAIN AN ADEQUATE CLEARANCE BETWEEN TOWER SUPPORTS AND GUY WIRES

FAILURE TO OBEY ALL POSTED SIGNS AND SITE GUIDELINES FOR WORKING IN A RADIO FREQUENCY ENVIRONMENT COULD RESULT IN SERIOUS INJURY. CONTACT CURRENT MAY EXCEED LIMITS PRESCRIBED IN ANS/IEEE C95.1-1992 FOR CONTROLLED ENVIRONMENTS.

ALERTING SIGN

PROPERTY OF AT&T

AUTHORIZED PERSONNEL ONLY

IN CASE OF EMERGENCY, OR PRIOR TO PERFORMING MAINTENANCE ON THIS SITE, CALL 800-638-2822 AND REFERENCE CELL SITE NUMBER _____

INFO SIGN #5

INFORMATION

AT&T operates telecommunication antennas at this location. Retain at least 3 feet away from any antenna and obey all posted signs.

Contact the owner(s) of the antenna(s) before working closer than 3 feet from the antenna.

Contact AT&T at _____ prior to performing any maintenance or repairs near AT&T antennas. This is Site# _____

Contact the management office if this door/hatch/gate is found unlocked.

INFORMACION

En esta propiedad se ubican antenas de telecomunicaciones operadas por AT&T. Favor mantener una distancia de no menos de 3 pies y obedecer todos los avisos.

Comuníquese con el propietario o los propietarios de las antenas antes de trabajar o caminar a una distancia de menos de 3 pies de la antena.

Comuníquese con AT&T _____ antes de realizar cualquier mantenimiento o reparaciones cerca de las antenas de AT&T.

Esta es la estación base número _____.

Favor de comunicarse con la oficina de la administración del edificio si esta puerta o compuerta se encuentra sin candado.

INFO SIGN #1



INFORMATION

ACTIVE ANTENNAS ARE MOUNTED

ON THE OUTSIDE OF THIS BUILDING

BEHIND THE PANEL

ON THIS STRUCTURE

STAY BACK A MINIMUM OF 3 FEET FROM THESE ANTENNAS

Contact AT&T at _____ and follow their instructions prior to performing any maintenance or repairs closer than 3 feet from the antennas.

This is Site# _____

INFO SIGN #2

INFO SIGN #4

STAY BACK 3 FEET FROM ANTENNA

GENERAL SIGNAGE GUIDELINES

| STRUCTURE TYPE | INFO SIGN #1 | INFO SIGN #2 | INFO SIGN #3 | INFO SIGN #4 | INFO SIGN #5 | STRIPING | NOTICE SIGN | CAUTION SIGN |
|---|--|---|-------------------------|-------------------------|---|--|--|---|
| TOWERS | | | | | | | | |
| MONOPOLE/MONOPINE/MONOPALM | ENTRANCE GATE SHELTER DOORS OR ON THE OUTDOOR CABINETS | CLIMBING SIDE OF THE TOWER | ON BACKSIDE OF ANTENNAS | ON THE SIDE OF ANTENNAS | ON THE SHELTER DOOR OR ON ONE OUTDOOR EQUIPMENT CABINET | | | AT THE HEIGHT OF THE FIRST CLIMBING STEP, MIN. 9FT ABOVE GROUND |
| SCE TOWERS/TOWERS WITH HIGH VOLTAGE | ENTRANCE GATE SHELTER DOORS OR ON THE OUTDOOR CABINETS | CLIMBING SIDE OF THE TOWER | ON BACKSIDE OF ANTENNAS | ON THE SIDE OF ANTENNAS | ON THE SHELTER DOOR OR ON ONE OUTDOOR EQUIPMENT CABINET | | | AT THE HEIGHT OF THE FIRST CLIMBING STEP, MIN. 9FT ABOVE GROUND |
| LIGHT POLES/FLAG POLES | ENTRANCE GATE SHELTER DOORS OR ON THE OUTDOOR CABINETS | ON THE POLE, NO LESS THAN 3FT BELOW THE ANTENNA | ON BACKSIDE OF ANTENNAS | ON THE SIDE OF ANTENNAS | ON THE SHELTER DOOR OR ON ONE OUTDOOR EQUIPMENT CABINET | | | |
| UTILITY WOOD POLES (JPA) | ENTRANCE GATE SHELTER DOORS OR ON THE OUTDOOR CABINETS | ON THE POLE, NO LESS THAN 3FT BELOW THE ANTENNA | ON BACKSIDE OF ANTENNAS | ON THE SIDE OF ANTENNAS | ON THE SHELTER DOOR OR ON ONE OUTDOOR EQUIPMENT CABINET | | IF GP MAX VALUE OF MPE AT ANTENNA LEVEL IS: 0-99%: NOTICE SIGN; OVER 99% CAUTION SIGN AT NO LESS THAN 3FT BELOW ANTENNA AND 9FT ABOVE GROUND | |
| MICROCELLS MOUNTED ON NON-JPA POLES | ENTRANCE GATE SHELTER DOORS OR ON THE OUTDOOR CABINETS | ON THE POLE, NO LESS THAN 3FT BELOW THE ANTENNA | ON BACKSIDE OF ANTENNAS | ON THE SIDE OF ANTENNAS | ON THE SHELTER DOOR OR ON ONE OUTDOOR EQUIPMENT CABINET | | NOTICE OR CAUTION SIGN AT NO LESS THAN 9FT ABOVE GROUND; ONLY IF THE EXPOSURE EXCEEDS 90% OF THE GENERAL PUBLIC EXPOSURE AT 6FT ABOVE GROUND | |
| ROOF TOPS | | | | | | | | |
| AT ALL ACCESS POINTS OF THE ROOF | X | | | | | | | |
| ON ANTENNAS | X | | X | X | | | | |
| CONCEALED ANTENNAS | X | X | | | | | | |
| ANTENNAS MOUNTED FACING OUTSIDE THE BUILDING | X | X | | | | | | |
| ANTENNAS ON SUPPORT STRUCTURE | X | X | | | | | | |
| ROOFTOP GRAPH: | | | | | | | | |
| RADIATION AREA IS WITHIN 3FT FROM ANTENNA | X | ADJACENT TO EACH ANTENNA | | | | | | |
| RADIATION IS BEYOND 3FT FROM ANTENNA | X | ADJACENT TO EACH ANTENNA | | | | DIAGONAL YELLOW STRIPING AS TO ROOF VIEW GRAPH | EITHER NOTICE OR CAUTION SIGN (BASED ON ROOFVIEW RESULTS) AT ANTENNAS/BARRIER | |
| CHURCH STEEPLES | ACCESS TO STEEPLE | ADJACENT TO ANTENNAS IF ANTENNAS ARE CONCEALED | ON BACKSIDE OF ANTENNAS | ON THE SIDE OF ANTENNAS | ON THE SHELTER DOOR OR ON ONE OUTDOOR EQUIPMENT CABINET | | | CAUTION SIGN AT THE ANTENNAS |
| WATER STATIONS | ACCESS TO STEEPLE | ADJACENT TO ANTENNAS IF ANTENNAS ARE CONCEALED | ON BACKSIDE OF ANTENNAS | ON THE SIDE OF ANTENNAS | ON THE SHELTER DOOR OR ON ONE OUTDOOR EQUIPMENT CABINET | | | CAUTION SIGN AT THE ANTENNAS |
| <p>NOTES FOR ROOFTOP SIGNS:</p> <p>1. EITHER NOTICE OR CAUTION SIGNS NEED TO BE POSTED AT EACH SECTOR AS CLOSE AS POSSIBLE TO: THE OUTER EDGE OF THE STRIPED OFF AREA OR THE OUTER ANTENNAS OF THE SECTOR</p> <p>2. IF ROOFVIEW SHOWS: ONLY BLUE= NOTICE SIGN, BLUE AND YELLOW= CAUTION SIGN, ONLY YELLOW= CAUTION SIGN TO BE INSTALLED.</p> <p>3. SHOULD THE REQUIRED STRIPING ARE INTERFERE WITH ANY STRUCTURES OR EQUIPMENT (A/C, VENTS, ROOF HATCH, DOORS, OTHER ANTENNAS, DISHES, ETS.), PLEASE NOTIFY AT&T TO MODIFY THE STRIPING AREA, PRIOR TO STARTING THE WORK.</p> | | | | | | | | |



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POWDER MOUNTAIN

POWDER MOUNTAIN
EDEN, UT 84310
NSB MONOPOLE

SHEET TITLE
SIGNAGE & NOTES

SHEET NUMBER
T-5

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

DISCLAIMER
 THESE DRAWINGS WERE PRODUCED WITHOUT THE BENEFIT OF A CURRENT LAND SURVEY. ALL PROPERTY LINES, EASEMENTS, AND SETBACKS SHALL BE VERIFIED PRIOR TO START OF CONSTRUCTION. TAEC DOES NOT GUARANTEE THE ACCURACY OF SAID PROPERTY LINES, EASEMENTS, ROADS AND SETBACKS.



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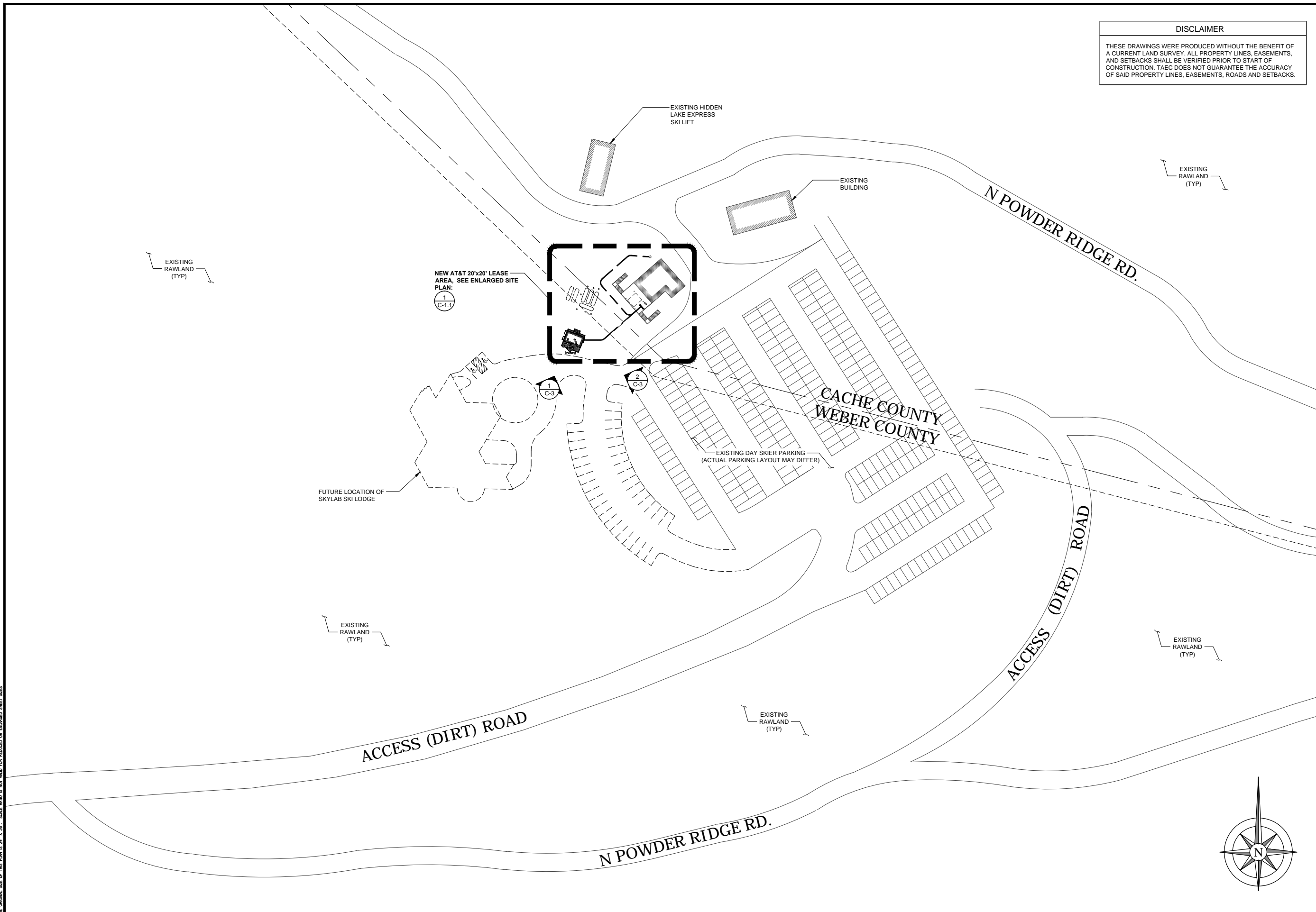
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POWDER MOUNTAIN
 POWDER MOUNTAIN
 EDEN, UT 84310
 NSB MONOPOLE

SHEET TITLE
**OVERALL
 SITE PLAN**

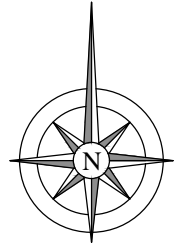
SHEET NUMBER
C-1



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

OVERALL SITE PLAN

0 2' 4' 8' SCALE: 1/8" = 1'-0" (24x36)
 (OR) 1/16" = 1'-0" (11x17)





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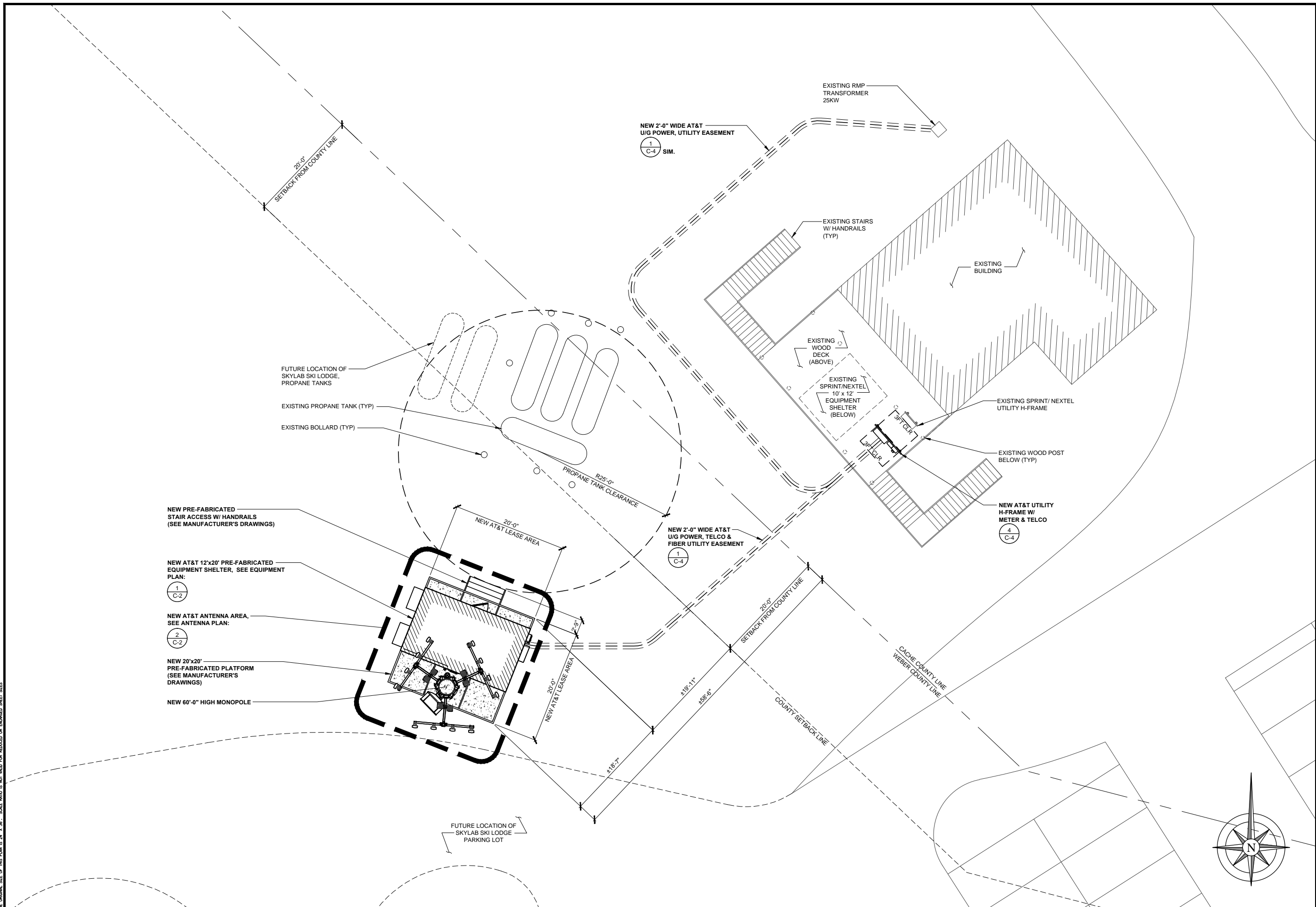
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POWDER MOUNTAIN
POWDER MOUNTAIN
EDEN, UT 84310
NSB MONOPOLE

SHEET TITLE
**OVERALL
SITE PLAN**

SHEET NUMBER
C-1.1

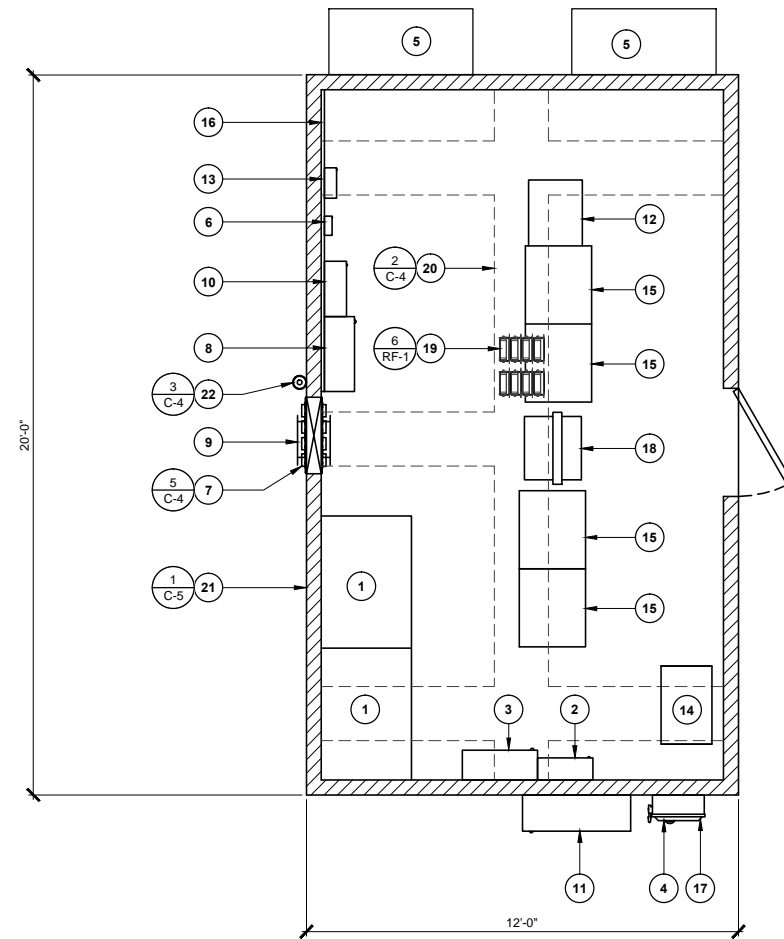


OVERALL SITE PLAN

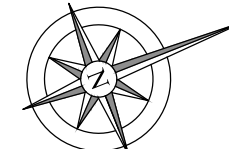
NOTE: THE ORIGINAL SIZE OF THIS PLAN IS 24" X 36". SCALE RATIO IS NOT VALID FOR REDUCED OR ENLARGED SHEET SIZES.

KEY NOTES

- 1 NEW AT&T BATTERIES / GEL CELL
- 2 NEW AT&T AC MAIN BREAKER PANEL
- 3 NEW AT&T TRANSFER SWITCH
- 4 NEW AT&T GENERATOR PLUG (BELOW)
- 5 NEW AT&T HVAC UNIT
- 6 NEW AT&T 66 / TELCO PUNCHDOWN BLOCK
- 7 NEW AT&T CABLE ENTRY PORT
- 8 NEW AT&T TELCO CABINET (UTILITY DEMARK)
- 9 NEW AT&T GROUND BAR
- 10 NEW AT&T NIU (S)
- 11 NEW AT&T TELCO JUNCTION BOX
- 12 NEW AT&T DSX PANEL
- 13 NEW AT&T ALARM DEMARCATION
- 14 NEW AT&T RECTIFIER
- 15 NEW AT&T CABINET
- 16 NEW AT&T TELCO BOARD
- 17 NEW AT&T DISCONNECT SWITCH
- 18 NEW AT&T 19" RACK
- 19 (8) NEW AT&T DIPLEXERS MOUNTED TO CABLE LADDER (ABOVE)
- 20 NEW AT&T CABLE LADDER (ABOVE)
- 21 NEW AT&T 12'x20' PRE-FABRICATED SHELTER
- 22 NEW AT& GPS ANTENNA



NOTE:
1. AT&T SHALL VERIFY & APPROVE ALL EQUIPMENT & CABINET LOCATIONS PRIOR TO THEIR INSTALLATION.



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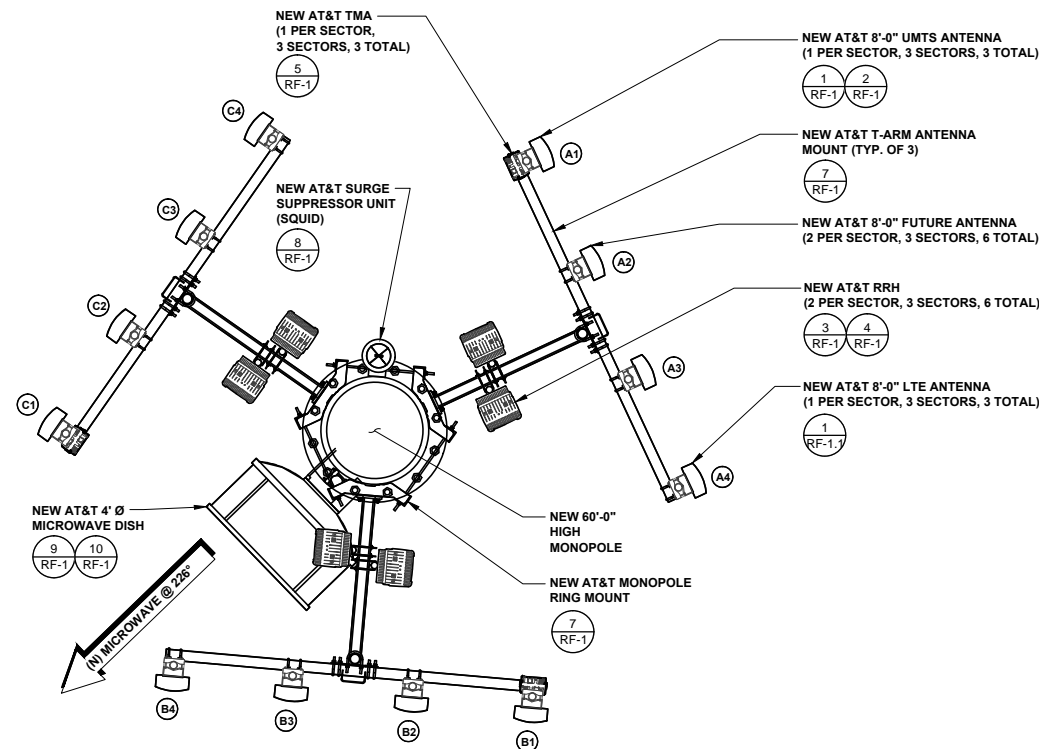
EQUIPMENT PLAN

0 1' 2' 3' SCALE: 3/8" = 1'-0" (24x36)
(OR) 3/16" = 1'-0" (11x17)

1

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ANTENNA PLAN

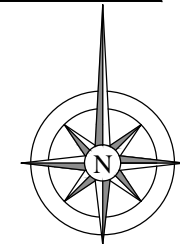


NEW ANTENNA AND TRANSMISSION CABLE REQUIREMENT

| SECTOR | ANTENNA TYPE | TECHNOLOGY | ANTENNA AZIMUTH | TRANSMISSION CABLE | | |
|--------|----------------|------------------|-----------------|--------------------|--------|-------|
| | | | | QTY. | LENGTH | TYPE |
| A1 | NEW ANTENNA | UMTS | 65° | 1 | 80' | FIBER |
| A2 | FUTURE ANTENNA | TO BE DETERMINED | | | | |
| A3 | FUTURE ANTENNA | TO BE DETERMINED | | | | |
| A4 | NEW ANTENNA | LTE | 65° | 1 | 80' | FIBER |
| B1 | NEW ANTENNA | UMTS | 185° | 1 | 80' | FIBER |
| B2 | FUTURE ANTENNA | TO BE DETERMINED | | | | |
| B3 | FUTURE ANTENNA | TO BE DETERMINED | | | | |
| B4 | NEW ANTENNA | LTE | 185° | 1 | 80' | FIBER |
| C1 | NEW ANTENNA | UMTS | 305° | 1 | 80' | FIBER |
| C2 | FUTURE ANTENNA | TO BE DETERMINED | | | | |
| C3 | FUTURE ANTENNA | TO BE DETERMINED | | | | |
| C4 | NEW ANTENNA | LTE | 305° | 1 | 80' | FIBER |

NOTE TO CONTRACTOR:
ANTENNA CLEARANCE AND MOUNTING TO BE FIELD VERIFIED PRIOR TO CONSTRUCTION WITH FINAL ANTENNA SPECIFICATIONS, MOUNTING HARDWARE, AND RF DESIGN. ANTENNA PIPE MOUNT MODIFICATION MAY BE REQUIRED.

NOTE:
1. AT&T SHALL VERIFY & APPROVE ALL ANTENNA TYPES & ANTENNA LOCATIONS PRIOR TO THEIR INSTALLATION.



0 1' 2' 3' SCALE: 3/8" = 1'-0" (24x36)
(OR) 3/16" = 1'-0" (11x17)

2

POWDER MOUNTAIN
POWDER MOUNTAIN
EDEN, UT 84310
NSB MONOPOLE

SHEET TITLE
EQUIPMENT & ANTENNA PLANS

SHEET NUMBER
C-2

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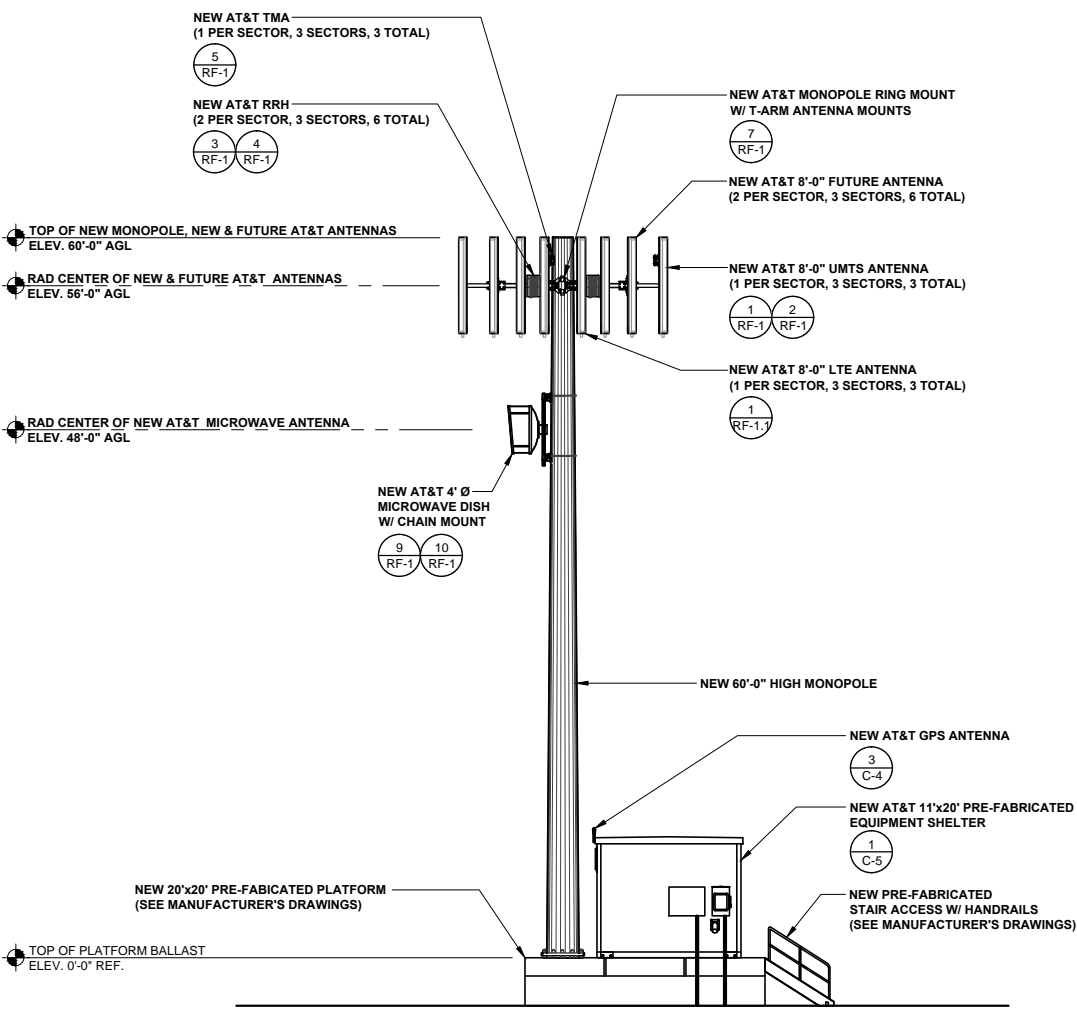
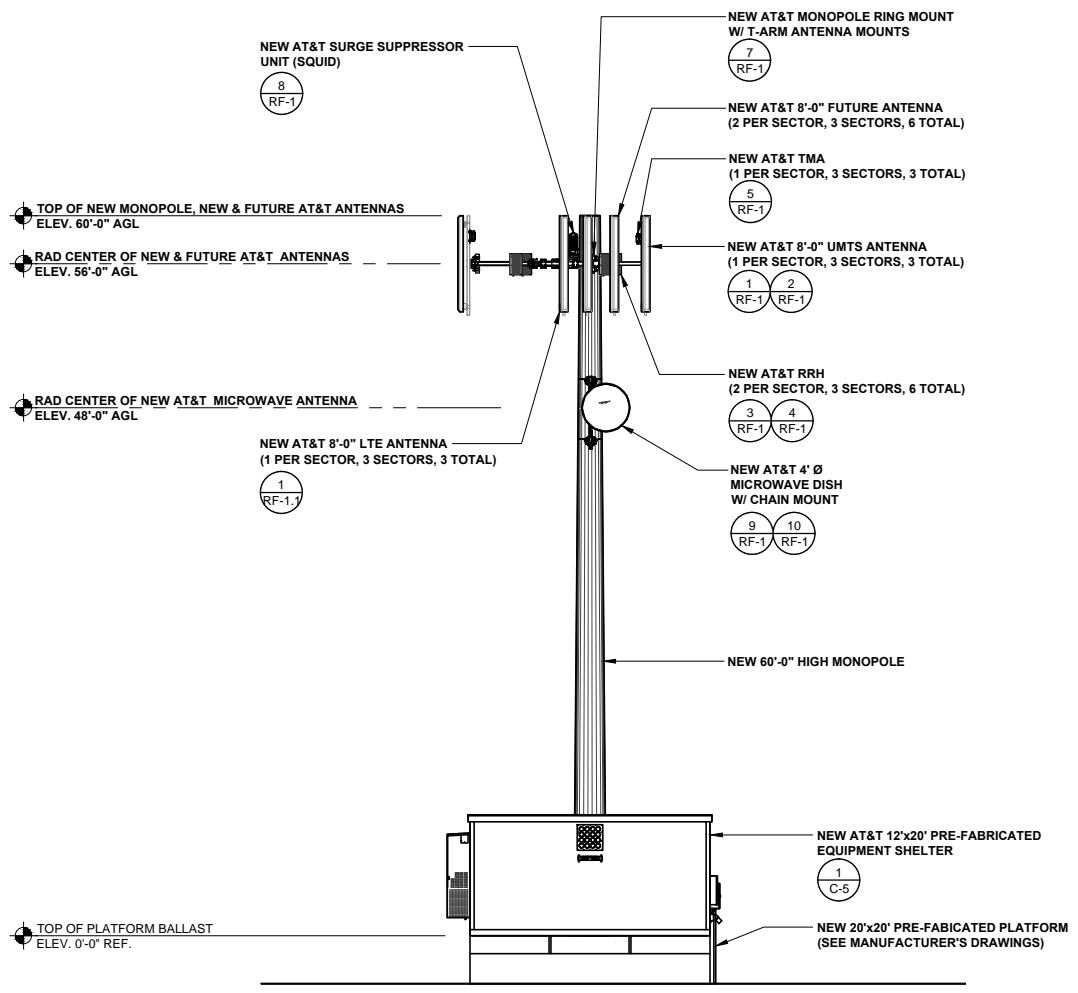
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POWDER MOUNTAIN
POWDER MOUNTAIN
EDEN, UT 84310
NSB MONOPOLE

SHEET TITLE
**SOUTHWEST
& SOUTHEAST
ELEVATIONS**

SHEET NUMBER
C-3



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SOUTHWEST ELEVATION

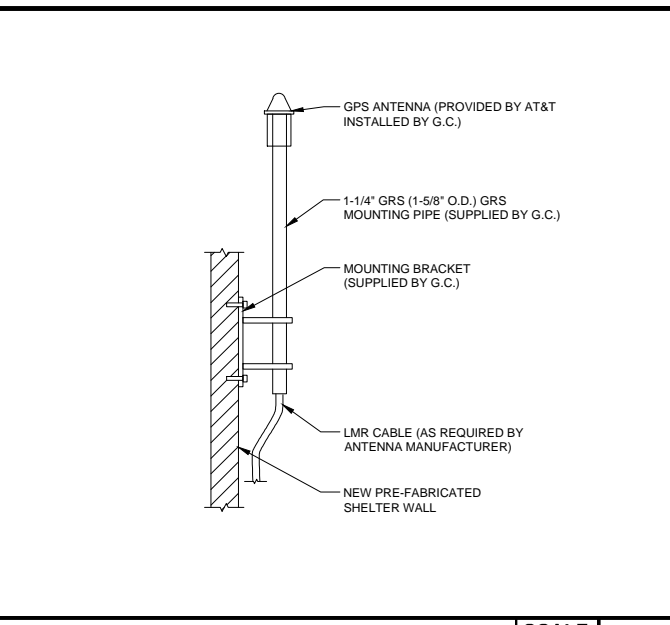
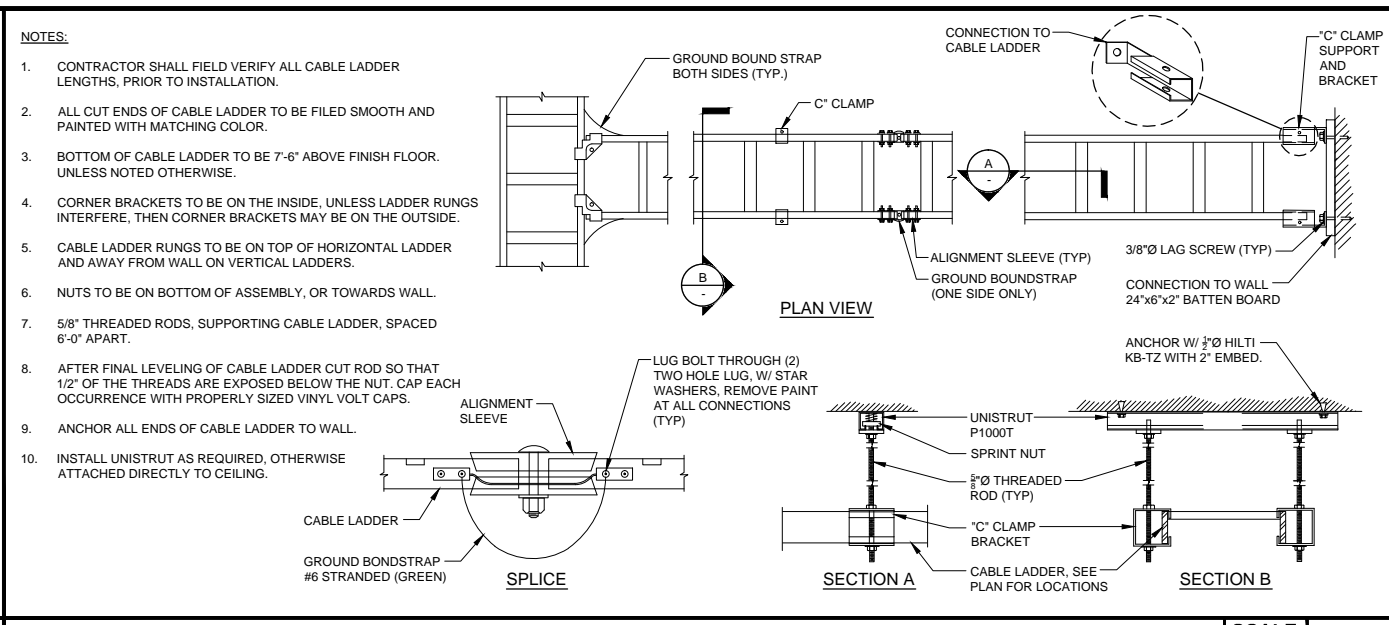
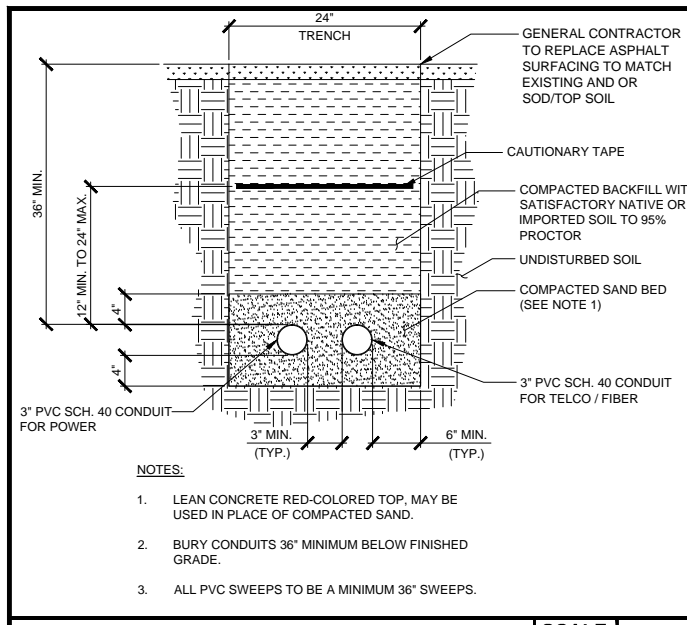
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(OR) 1/16" = 1'-0" (11x17)

1

SOUTHEAST ELEVATION

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(OR) 1/16" = 1'-0" (11x17)

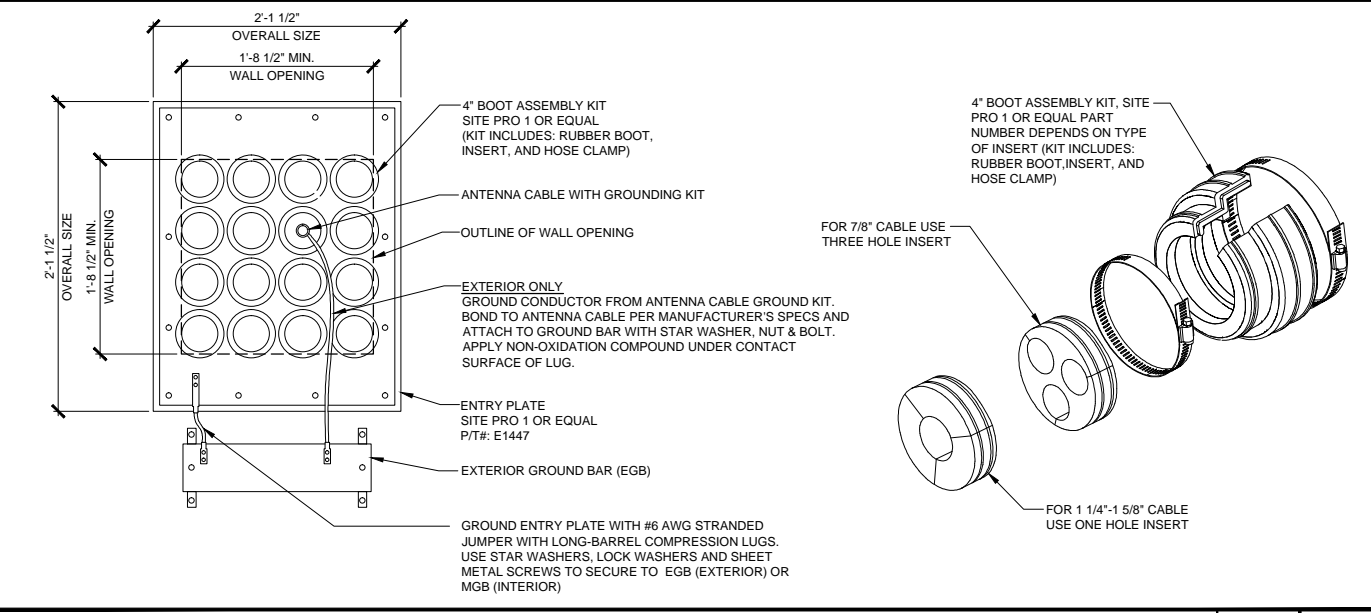
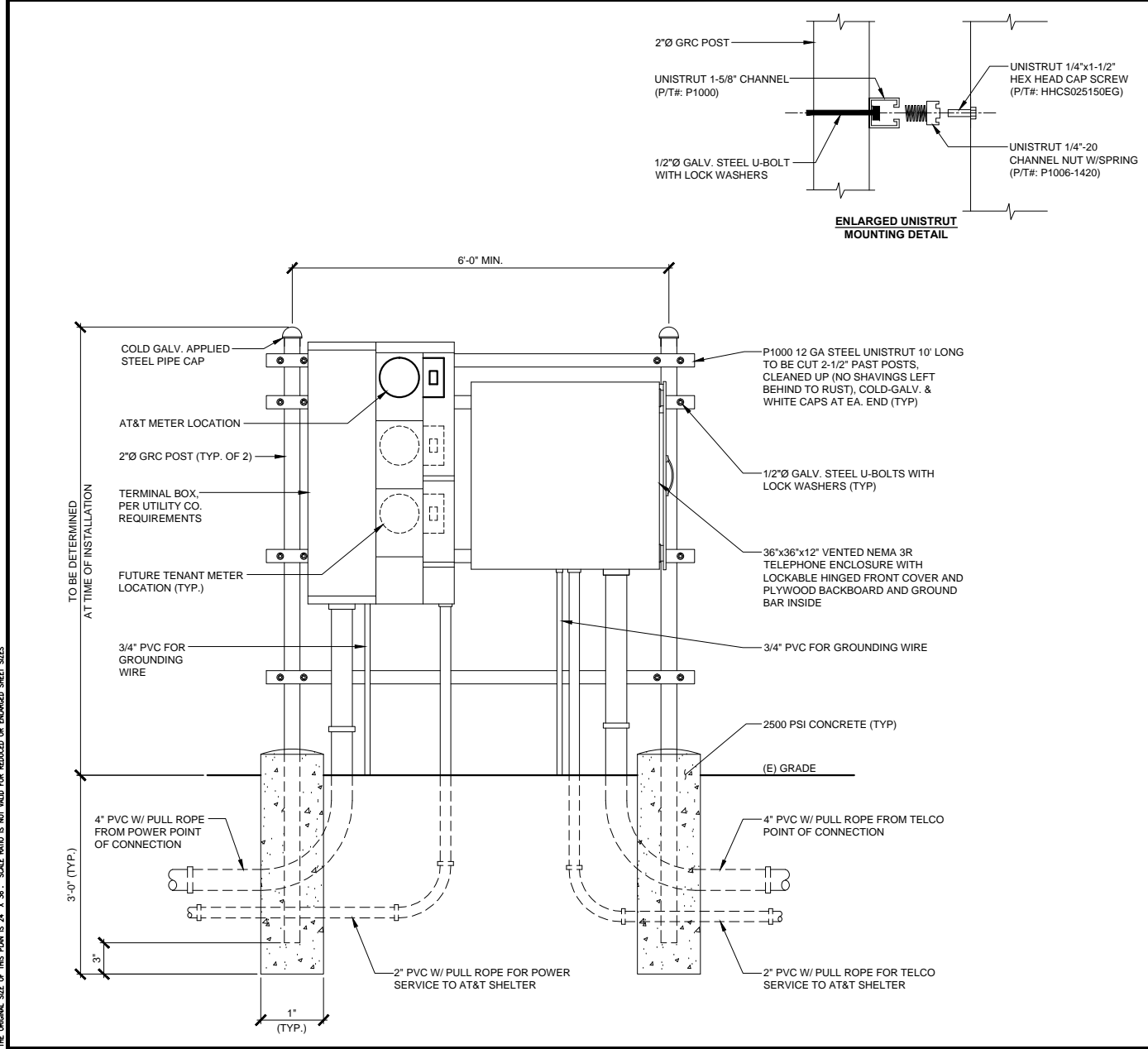
2



POWER / TELCO TRENCH SCALE N.T.S. 1

CABLE LADDER SCALE N.T.S. 2

GPS ANTENNA MOUNTING SCALE N.T.S. 3



NOT USED SCALE N.T.S. 6

NOT USED SCALE N.T.S. 7

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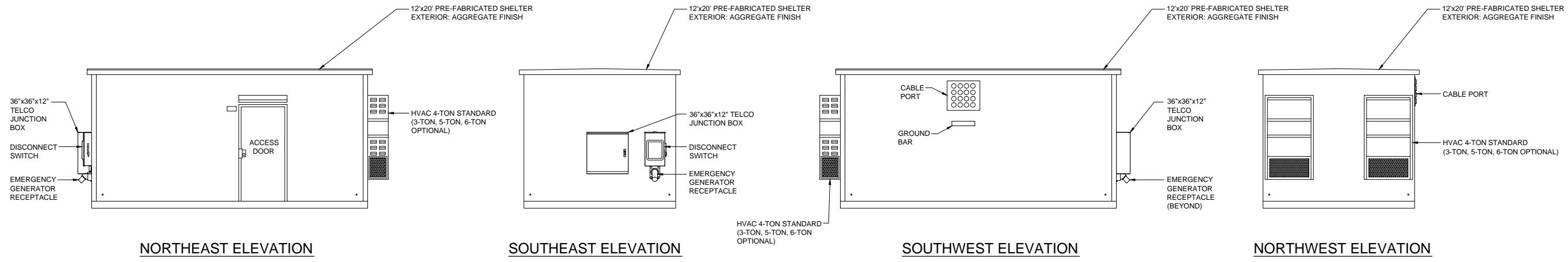
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POWDER MOUNTAIN
EDEN, UT 84310
NSB MONOPOLE

SHEET TITLE
DETAILS

SHEET NUMBER
C-4

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



SHELTER ELEVATIONS

SCALE
N.T.S. 1



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EDEN, UT 84310
NSB MONOPOLE

SHEET TITLE
DETAILS

SHEET NUMBER
C-5

NOT USED

SCALE
N.T.S. 2

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

ELECTRICAL NOTES

1. WIRING SHALL BE AWG COPPER WITH THHN/THWN OR EQUIVALENT INSULATION. #12 MINIMUM INSTALLED IN 3/4" MINIMUM RACEWAY. SIGNAL WIRING SHALL BE INSULATED #22 AWG. NO BX OR ROMEX CABLE IS PERMITTED. RACEWAY SHALL BE SURFACE MOUNTED.
2. WIRING DEVICES AND EQUIPMENT SHALL BE UL LISTED SPECIFICATION GRADE.
3. MATERIALS SHALL BE NEW AND CONFORM TO THE APPLICABLE STANDARDS ESTABLISHED FOR EACH ITEM BY THE ORGANIZATIONS USED BELOW.
 - AMERICAN SOCIETY FOR TESTING MATERIALS (ASTM)
 - UNDERWRITER'S LABORATORY (UL)
 - NATIONAL ELECTRICAL MANUFACTURING ASSOCIATION (NEMA)
 - AMERICAN STANDARDS ASSOCIATION (ASA)
 - NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)
4. INSTALLATION OF MATERIALS SHALL COMPLY WITH CURRENT REGULATIONS ADOPTED BY LOCAL JURISDICTION INCLUDING BUT NOT LIMITED TO:
 - THE NATIONAL ELECTRICAL CODE (NFPA 70)
 - THE NATIONAL ELECTRICAL SAFETY CODE (ANSI C-2)
 - THE LIFE SAFETY CODE (NFPA 101)
 - LOCAL BUILDING CODES
5. THE ENTIRE SYSTEM SHALL BE SOLIDLY GROUNDED USING LOCKNUTS AND BONDING NUTS ON CONDUITS AND PROPERLY BONDED GROUND CONDUCTOR. RECEPTACLES AND EQUIPMENT BRANCH CIRCUITS SHALL BE GROUNDED WITH A FULL-SIZED EQUIPMENT GROUNDING CONDUCTOR RUN IN THE CIRCUIT'S CONDUIT.
6. OUTLET AND JUNCTION BOXES SHALL BE HOT DIPPED GALVANIZED, ZINC-COATED, OR CADMIUM PLATED STEEL NOT LESS THAN 4" SQUARE AND SUITABLE FOR THE TYPE SERVICE AND OUTLET. OUTLET AND JUNCTION BOXES SHALL BE SURFACE MOUNTED AND LABELED WITH BRANCH CIRCUIT BREAKER NUMBER.
7. LABEL ALL EQUIPMENT SERVED FROM AT&T PANEL BOARD WITH LABELS SIZED IN RELATION TO USAGE.
8. OUTDOOR CONDUCTORS ABOVE GROUND SHALL BE INSTALLED IN RIGID GALVANIZED STEEL OR INTERMEDIATE METAL CONDUIT UNLESS NOTED OTHERWISE. HORIZONTAL OUTDOOR CONDUCTORS BELOW GRADE SHALL BE INSTALLED IN RIGID SCHEDULE 40 PVC.
9. CONTRACTOR TO PROVIDE AND INSTALL ENGRAVED LABEL WITH 1/2" MINIMUM LETTERS ON THE AT&T METER SOCKET ENCLOSURE.

SYMBOLS

- | | | | |
|---|------------------------|-------|---|
| ⊗ | GROUND ROD WITH ACCESS | ● | COMPRESSION, CLAMP, OR DOUBLE HOLE LUG TYPE GROUND CONNECTION |
| ⊗ | XIT GROUND ROD | ■ | EXOTHERMIC CONNECTION (CADWELD) TO GROUND RING AND COMPRESSION TO GROUND HALO |
| ⊗ | GROUND ROD | — G — | GROUNDING WIRE, DASHED LINE INDICATES UNDERGROUND |
| ⊗ | DISCONNECT SWITCH | — T — | TELEPHONE LINE, DASHED LINE INDICATES UNDERGROUND |
| M | UTILITY METER | — C — | COAXIAL CABLE, DASHED LINE INDICATES UNDERGROUND |
| ⌋ | CIRCUIT BREAKER | — A — | ANTENNA COAX |
| ⌋ | FUSE | Ⓜ | DETAIL REFERENCE DETAIL NO.2 ON SHEET E3 |
| Ⓜ | GENERATOR | | |
| ⌋ | LIGHT SWITCH | | |

ABBREVIATIONS

- | | | | |
|------------|---|--------|--|
| ACCA | ANTENNA CABLE COVER ASSEMBLY | IGR | INTERIOR GROUND RING (HALO) |
| AWG | AMERICAN WIRE GAUGE | MIGB | MASTER ISOLATED GROUND BAR |
| C | BARE TINNED COPPER WIRE CONDUIT | (N) | NEW (PROVIDE AND INSTALL UNLESS NOTED OTHERWISE) |
| CIGBE | COAX INSULATED GROUND BAR EXTERNAL CONDUIT ONLY | PCS | PERSONAL COMMUNICATION SERVICE |
| CO | DRAWING | PDC | POWER PROTECTION CABINET |
| DWG | ELECTRICAL METALLIC TUBING | PRC | PRIMARY RADIO CABINET |
| EMT | EXISTING | PVC | POLYVINYL CHLORIDE CONDUIT |
| NEW OR EX. | GENERATOR | RGS | RIGID GALVANIZED STEEL |
| GEN | GROUND FAULT CIRCUIT INTERRUPTER | RWY | RACEWAY |
| GFI | GROUND | S.L.D. | SINGLE LINE DIAGRAM |
| GND | GLOBAL POSITIONING SYSTEM | TMLP | VERIZON WIRELESS LIMITED PARTNERSHIP |
| GPS | GROWTH | TEL | TELEPHONE |
| GR | | TYP. | TYPICAL |
| | | WP | WEATHERPROOF EQUIPMENT |



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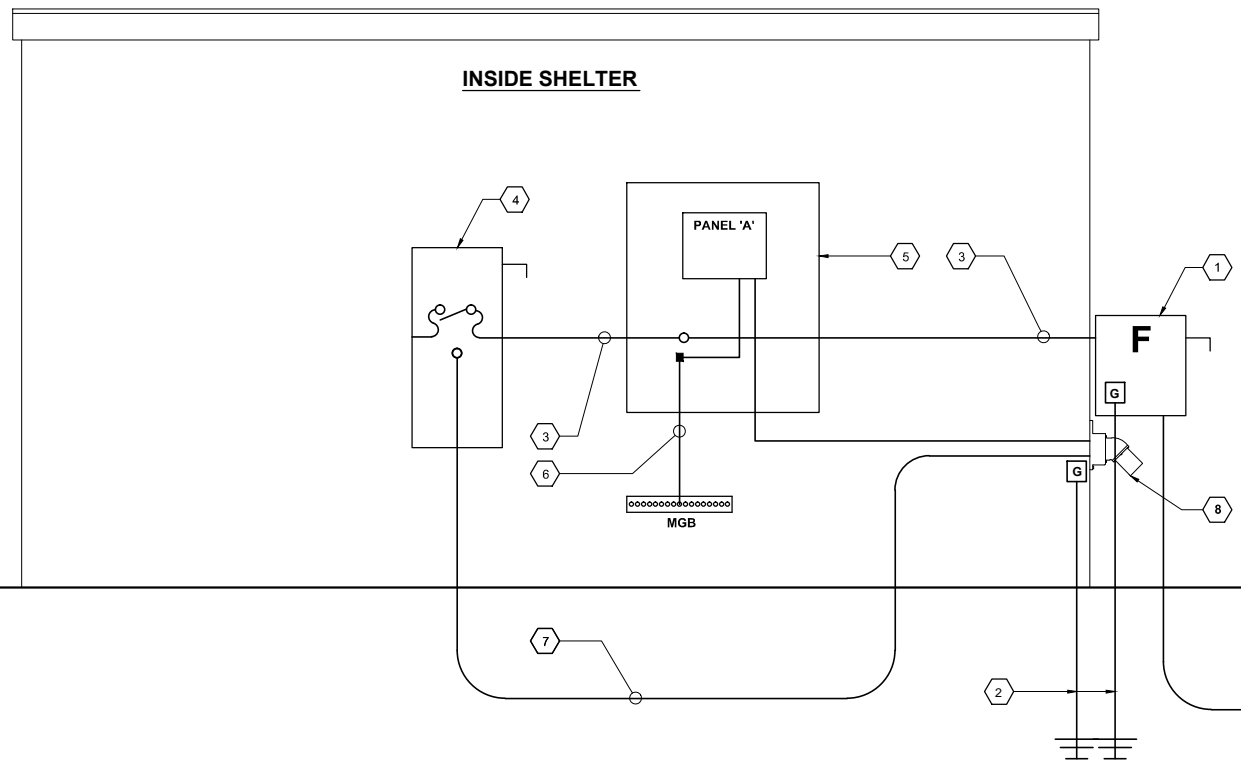
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ELECTRICAL NOTES

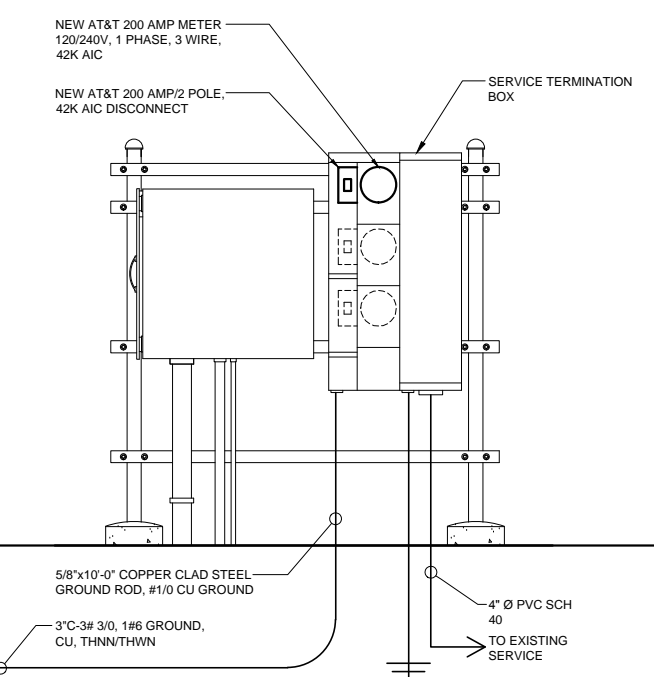
SCALE
N.T.S. 1

KEY NOTES:

- | | | |
|---|--|--|
| 1 NEW 200 AMPHERE, 120/240 VOLT, 2-POLE 3-WIRE, HEAVY DUTY FUSED DISCONNECT SWITCH. SIEMENS # SN324 OR SQUARE "D" #H224N, NEMA 3R ENCLOSURE, CLASS RK1, 200 AMP FUSES, BUSSMANN TYPE LPN-RK, C.L., D.E., T.D. | 4 NEW AUTOMATIC TRANSFER SWITCH, GENERAC MODEL #0049402, 200 AMP, 120/240 VOLT, 1-PHASE, 3-WIRE, 2 POLE, 42 KAIC. | 8 GENERATOR RECEPTACLE |
| 2 NEW 5/8"Ø x 10'-0" COPPER CLAD STEEL GROUND ROD AND #1/0 CU GROUND. BOND TO GROUND GRID. | 5 NEW INTEGRATED LOADCENTER (PANEL 'A') WITH 200 AMP/2-POLE, 120/240 VOLT, 42KAIC MANUAL TRANSFER SWITCH PROVIDED BY SHELTER MANUFACTURER. | 9 NEW 1"Ø - 3#10, 1#10 GROUND, CU, THHN/THWN GENERATOR SUPPORT BRANCH CIRCUITS |
| 3 NEW 2"Ø-3#3/0, 1#6 GROUND, CU, THHN/THWN. | 6 NEW 1/2"Ø - 1#2 CU BOND TO MASTER GROUND BAR "MGB" | |
| | 7 NEW 2-1/2"Ø - 3#3/0, 1#6 GROUND, CU, THHN/THWN | |



OUTSIDE SHELTER



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

ONE-LINE DIAGRAM

SCALE
N.T.S. 2

POWDER MOUNTAIN
POWDER MOUNTAIN
EDEN, UT 84310
NSB MONOPOLE

SHEET TITLE
**ELECTRICAL NOTES
& ONE-LINE DIAGRAM**

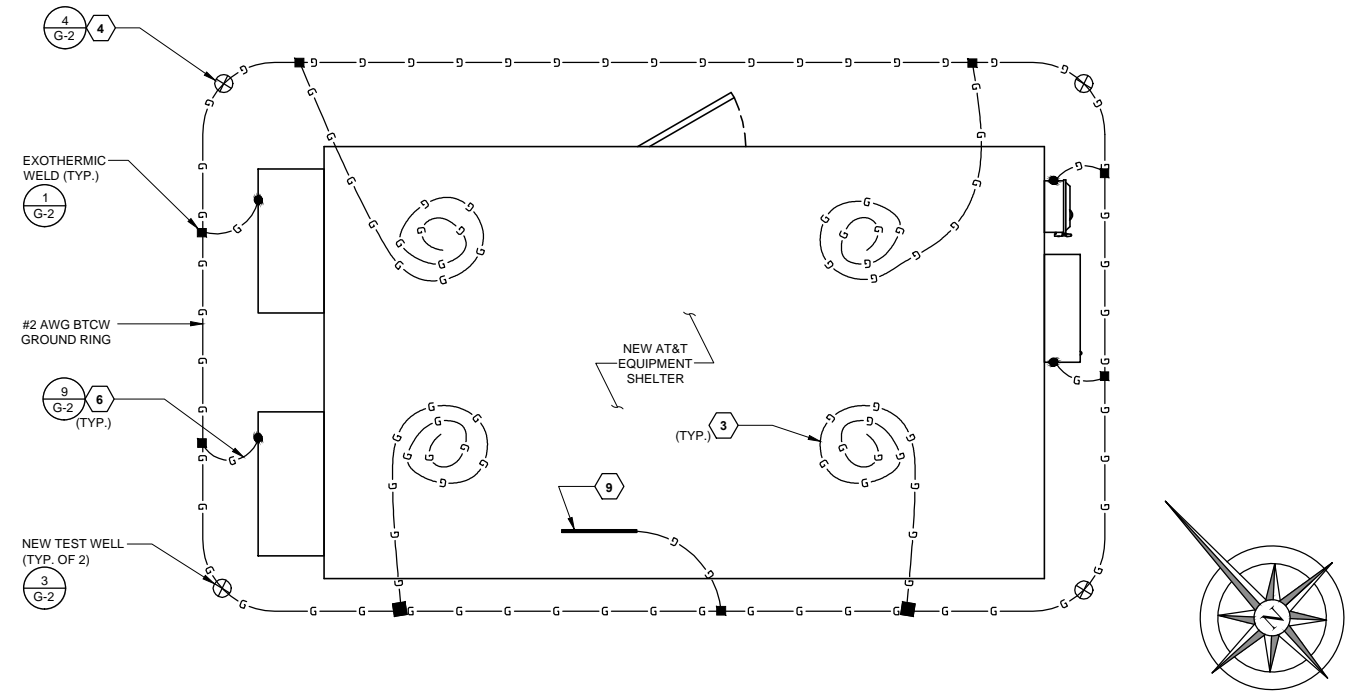
SHEET NUMBER
E-1

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

GROUNDING SPECIFICATIONS

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

NOTE:
GROUNDING DESIGN & LAYOUT SHALL BE REVIEWED & APPROVED BY AT&T PRIOR TO INSTALLATION.

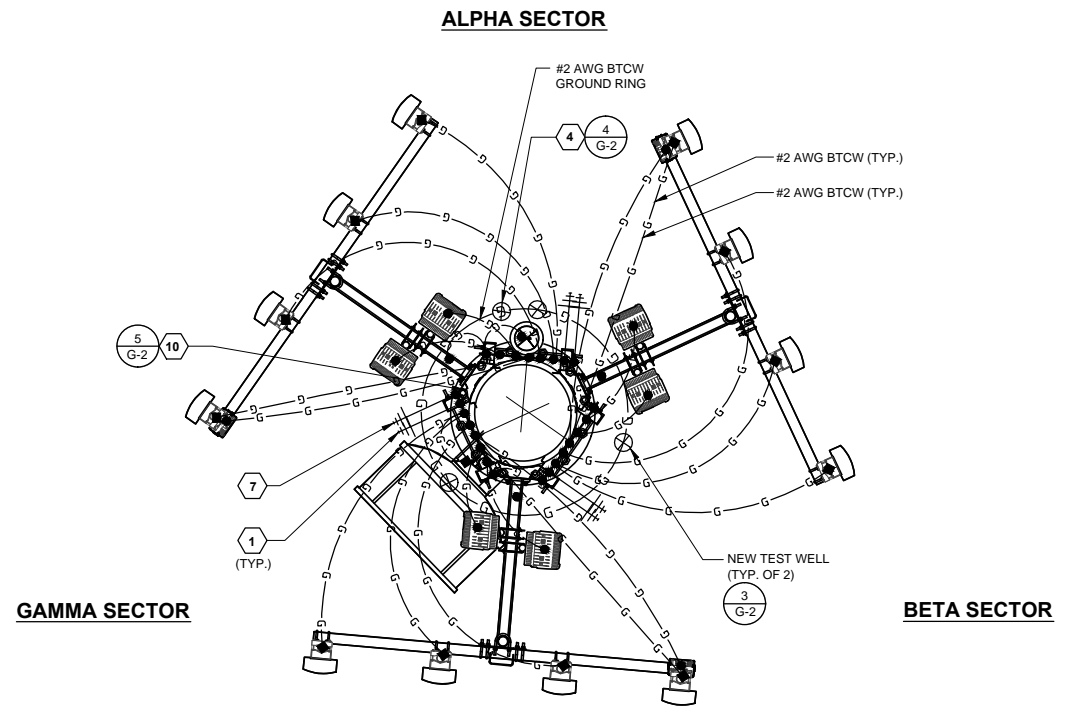


EQUIPMENT GROUNDING

SCALE
N.T.S. 2

KEY NOTES:

- UPPER GROUND BAR:** EXTEND #2 TINNED CU WIRE TO LOWER GROUND BAR AND MAKE MECHANICAL LUG CONNECTION.
- HATCHPLATE GROUND BAR:** EXTEND #2 TINNED CU WIRE FROM BURIED GROUND RING UP TO THE HATCHPLATE GROUND BAR AND MAKE AN EXOTHERMIC WELD.
- GROUND OF INTERNAL GROUND RING:** EXTEND #2 TINNED CU WIRE FROM BURIED GROUND RING THROUGH 1/2"Ø PVC SLEEVE INTO EQUIPMENT SHELTER FOR CONNECTION TO INTERIOR HALO GROUND RING. TYPICAL AT 4 BUILDING CORNERS
- GROUND ROD:** COPPERCLAD STEEL, 5/8"Ø TEN (10) FEET LONG.
- ICE BRIDGE SUPPORT POST GROUNDING:** EXTEND #2 TINNED CU WIRE FROM BURIED GROUND RING TO ALL ICE BRIDGE SUPPORT POSTS AND EXOTHERMIC ALLY WELD.
- HVAC GROUNDING:** EXTEND #2 TINNED CU WIRE FROM BURIED GROUND RING TO THE HVAC UNIT AND MAKE A MECHANICAL CONNECTION.
- LOWER GROUND BAR:** EXTEND #2 TINNED CU WIRE FROM BURIED GROUND UP TO THE GROUND BAR AND MAKE AN EXOTHERMIC WELD AT GROUND RING. SECURE GROUND BAR DIRECTLY TO TOWER WITH STAINLESS STEEL MOUNTING MATERIAL.
- CELL REFERENCE GROUND BAR:** EXTEND #2 TINNED CU WIRE FROM BURIED GROUND RING UP TO THE CELL REFERENCE GROUND BAR (INSIDE SHELTER) AND MAKE A MECHANICAL CONNECTION.
- TELCO GROUND BAR:** EXTEND #2 TINNED CU WIRE FROM BURIED GROUND RING UP TO TELCO GROUND BAR (INSIDE SHELTER) AND MAKE A MECHANICAL CONNECTION.
- ANTENNA GROUND BAR:** MOUNT GROUND BAR DIRECTLY TO TOWER AT TOP OF CABLE RUNS; SECURE TO TOWER WITH STAINLESS STEEL MOUNT.



ANTENNA GROUNDING

SCALE
N.T.S. 3



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Technology Associates

UTAH MARKET OFFICE
9847 SOUTH 500 WEST
SANDY, UTAH 84070
(801) 463-1020

| REV | DATE | DESCRIPTION | BY |
|-----|-----------|------------------------------|-----|
| F | 8/26/2013 | ISSUED FOR 100% CONSTRUCTION | NSV |
| E | 7/31/2013 | ISSUED FOR 100% CONSTRUCTION | NSV |
| D | 7/25/2013 | ISSUED FOR 100% CONSTRUCTION | NSV |
| C | 7/10/2013 | ISSUED FOR 100% CONSTRUCTION | NSV |
| B | 7/03/2013 | ISSUED FOR 90% CONSTRUCTION | NSV |
| A | 6/03/2013 | ISSUED FOR 90% CONSTRUCTION | NSV |

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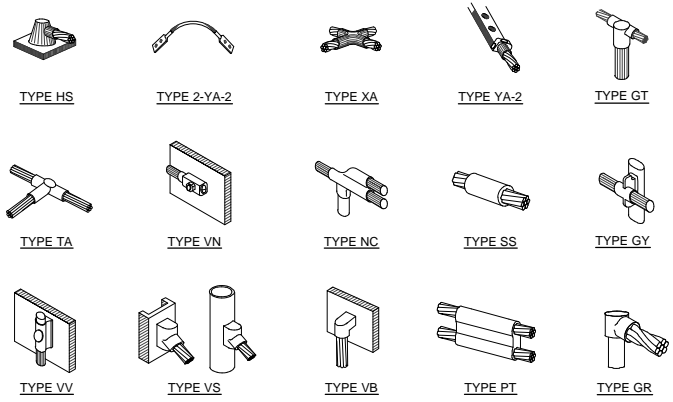
POWDER MOUNTAIN
POWDER MOUNTAIN
EDEN, UT 84310
NSB MONOPOLE

SHEET TITLE
GROUNDING PLANS

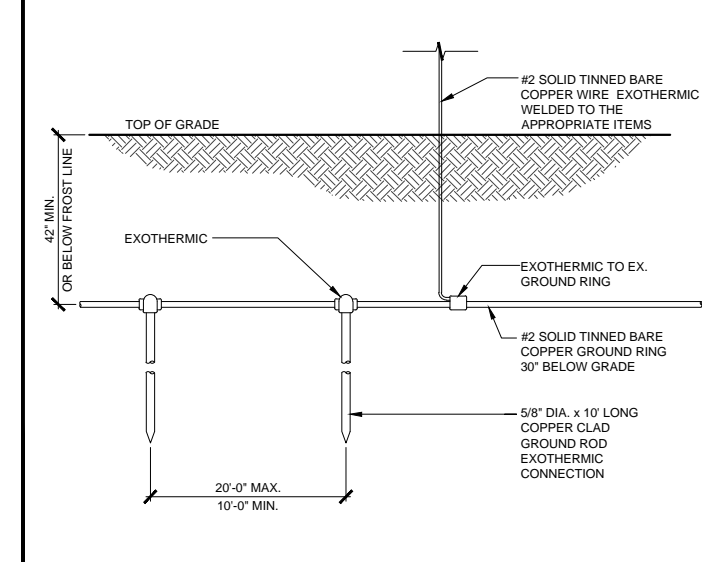
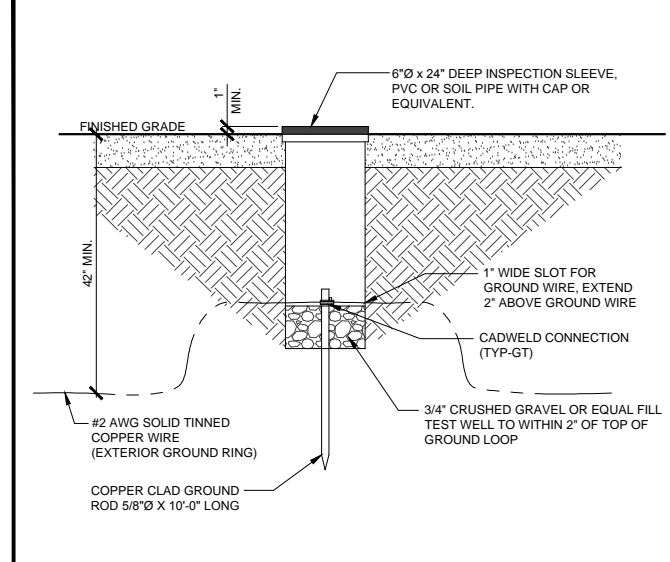
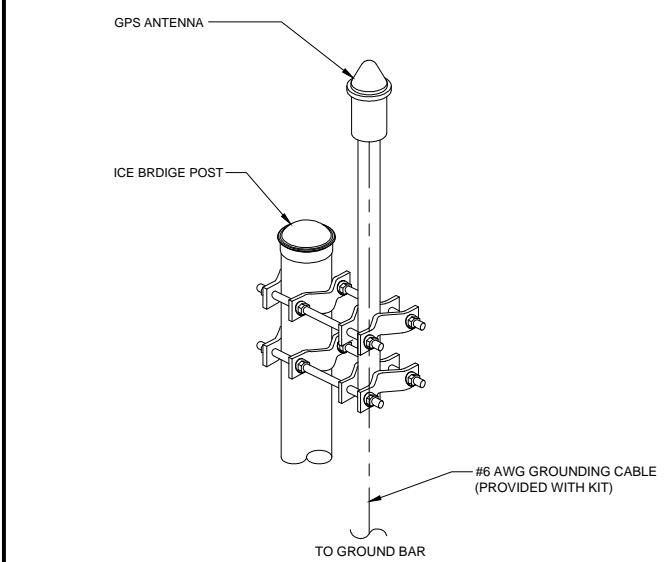
SHEET NUMBER
G-1

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

NOTES



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

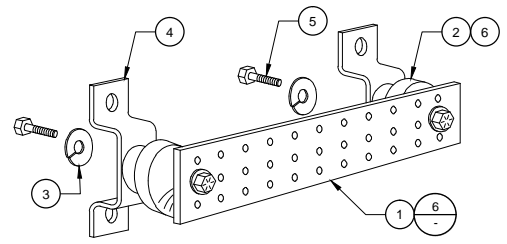


EXOTHERMIC WELDING SCALE N.T.S. **1**

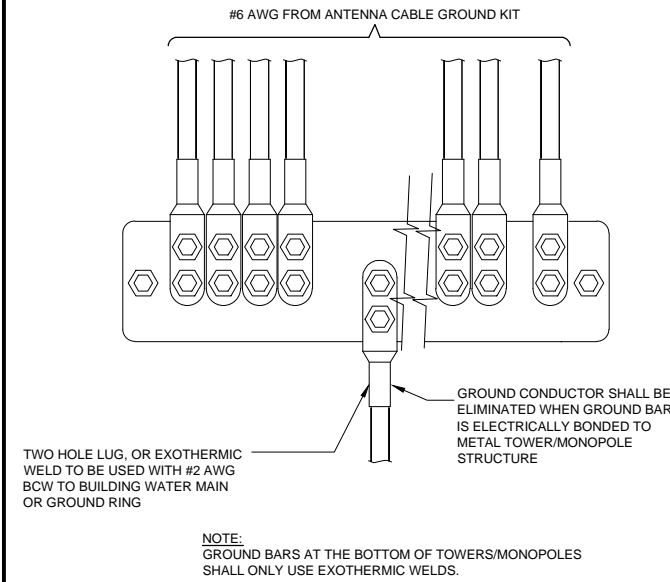
GPS GROUNDING SCALE N.T.S. **2**

TEST WELL SCALE N.T.S. **3**

GROUND ROD SCALE N.T.S. **4**



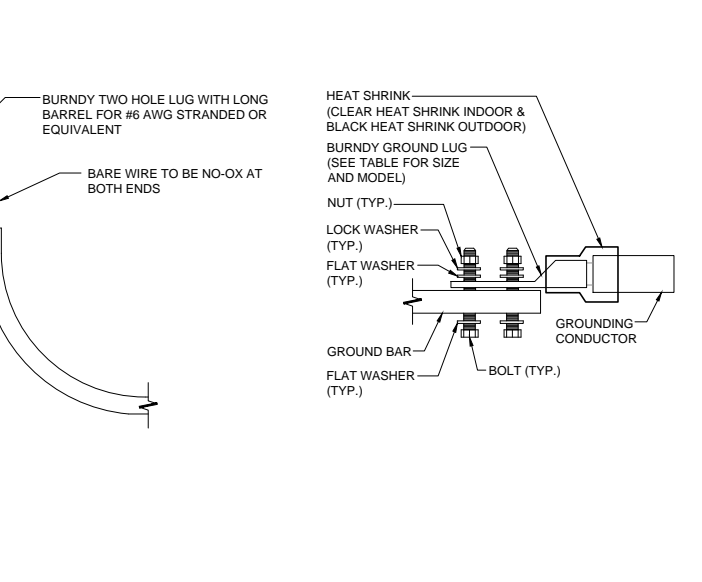
- 1 COPPER GROUND BAR, 1/4"x4"x20", HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION. (ACTUAL GROUND BAR SIZE WILL VARY BASED ON NUMBER OF GROUND CONNECTIONS)
- 2 INSULATORS
- 3 5/8" LOCKWASHERS
- 4 WALL MOUNTING BRACKET
- 5 5/8-11 X 1" HHCS BOLTS
- 6 INSULATORS SHALL BE ELEMENATED WHEN BONDING DIRECTLY TO TOWER/MONOPOLE. CONNECTION TO TOWER OR MONOPOLE STRUCTURE SHALL BE PER MANUFACTURERS RECOMMENDATIONS.



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

NOTES:

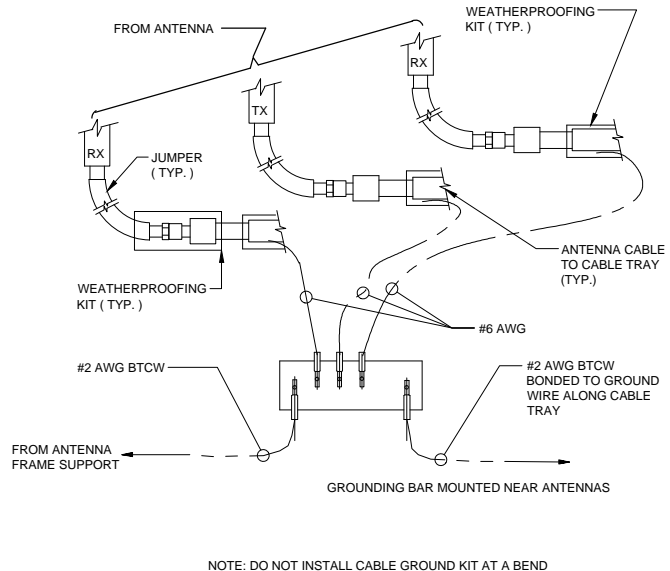
1. ALL HARDWARE BOLTS, NUTS, LOCK WASHERS SHALL BE STAINLESS STEEL. ALL HARDWARE ARE TO BE AS FOLLOWS: BOLT, FLAT WASHER, GROUND BAR, GROUND LUG, FLAT WASHER, LOCK WASHER AND NUT.
2. COPPER SHIELD, ANTIOX, OR NO-OX OR EQUIVALENT SHALL BE PLACE WHERE ALL DISSIMILAR METALS CONNECT.
3. ALL LUGS ARE TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
4. ALL LUGS MUST HAVE INSPECTION WINDOWS.



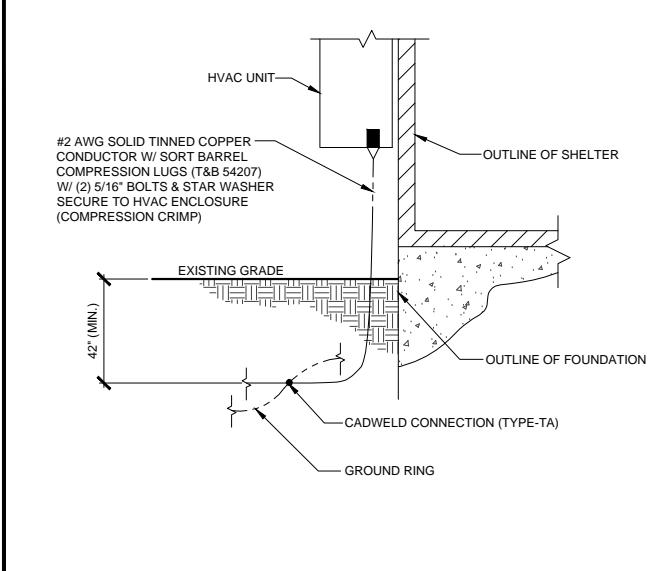
12" OR 18" GROUND BAR SCALE N.T.S. **5**

GRD WIRE TO GROUND BAR SCALE N.T.S. **6**

MECHANICAL LUG CONNECTION SCALE N.T.S. **7**



ANTENNA GROUND KIT SCALE N.T.S. **8**



HVAC GROUNDING SCALE N.T.S. **9**

NOT USED SCALE N.T.S. **10**

NOT USED SCALE N.T.S. **11**

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POWDER MOUNTAIN
POWDER MOUNTAIN
EDEN, UT 84310
NSB MONOPOLE

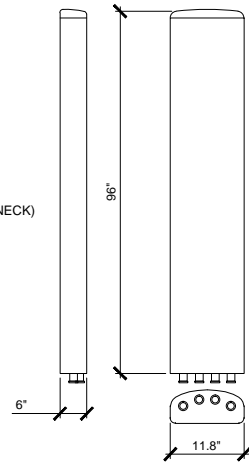
SHEET TITLE
**GROUNDING
DETAILS**

SHEET NUMBER
G-2

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

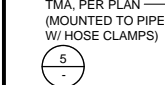
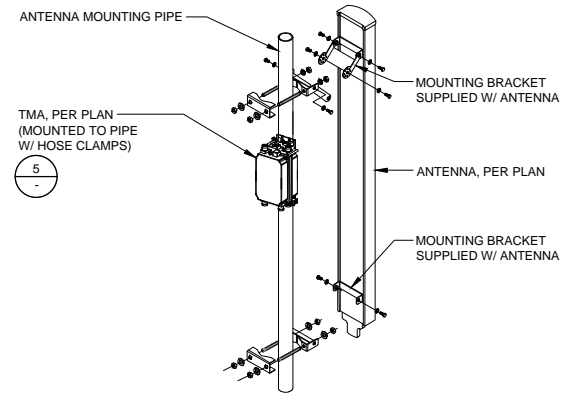
KATHREIN 800 10766

RADOME MATERIAL: UV RESISTANT FIBERGLASS
 RADOME COLOR: LIGHT GRAY
 DIMENSIONS, HxWxD: 96" x 11.8" x 6"
 WEIGHT, W/ PRE-MOUNTED BRACKETS: 75.8 lb
 CONNECTOR: 4 x 7/16 DIN FEMALE (LONG NECK)



ANTENNA SPECIFICATIONS

SCALE N.T.S. 1

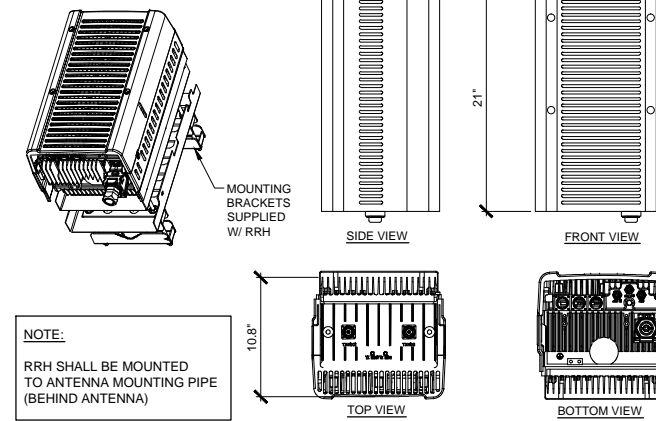


ANTENNA & TMA MOUNTING

SCALE N.T.S. 2

ALCATEL - LUCENT 9942 RRH 700

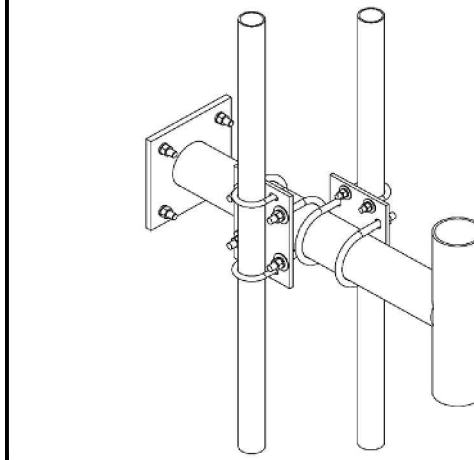
OPERATIONAL BANDWIDTH: 15.5MHz, 2 LTE CARRIERS
 WEIGHT: 51 LBS.
 SIZE: 12.2" x 10.8" x 21"



NOTE:
 RRH SHALL BE MOUNTED TO ANTENNA MOUNTING PIPE (BEHIND ANTENNA)

RRH SPECIFICATIONS

SCALE N.T.S. 3



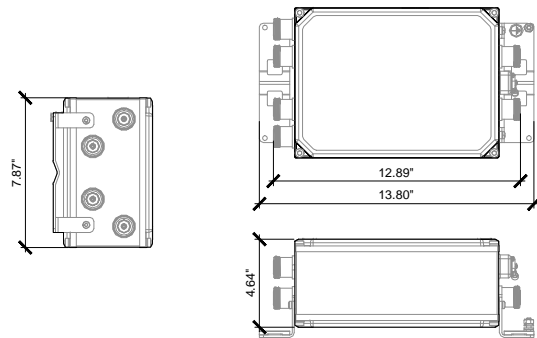
MANUFACTURER: ANDREW
 PART #: XP-197-D
 NOTE:
 ANTENNA MOUNTING PIPES NOT INCLUDED W/ MOUNTING KIT

RRH STAND-OFF ARM MOUNT

SCALE N.T.S. 4

KAELUS TMA2061F1V1-1

BANDWIDTH: PCS 1900 FULL BAND, DUAL DUPLEX, TWIN TMA, WITH 698-960 MHz BYPASS
 WEIGHT: 19.8 lbs
 RF CONNECTORS: DIN 7/16 FEMALE (long neck)

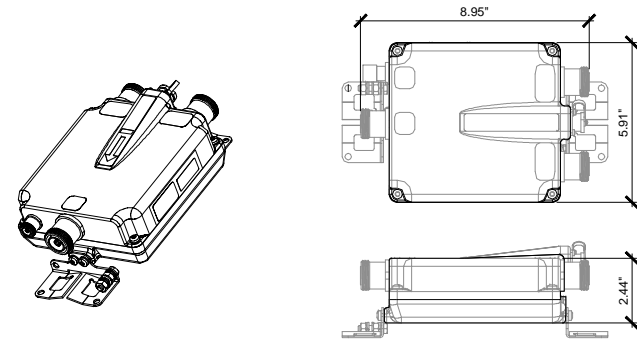


TMA SPECIFICATIONS

SCALE N.T.S. 5

KAELUS DBC2037F1V1-1

FILTER TYPE: 700/800/900 MHz
 RANGE: 698-2170 MHz
 WEIGHT: 7.0 lbs
 RF CONNECTORS: DIN 7/16 FEMALE



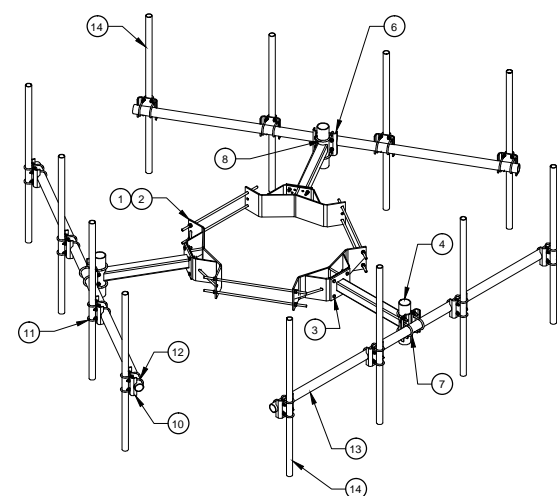
DIPLEXER SPECIFICATIONS

SCALE N.T.S. 6

| ITEM | PART NO. | DESCRIPTION | QTY. | WEIGHT |
|------|-------------|-------------------------------------|------|------------|
| 1 | MC-RM3060-3 | Ø 30" - Ø 60" RING MOUNT | 1 | 308.98 LBS |
| 2 | MT197H | HARDWARE KIT (ITEM 3) | 3 | - |
| 3 | GUB-0524A | 5/8" X 2-1/2" GALV. BOLT KIT (A325) | 12 | 0.26 LBS |
| 4 | MT197.01 | 36" SINGLE SUPPORT ARM | 3 | 65.98 LBS |
| 5 | MT216NSH | HARDWARE KIT (ITEMS 6-8) | 3 | - |
| 6 | MT216.13 | CENTER BRACKET | 3 | 11.80 LBS |
| 7 | GUB-5356D | 5/8" X 3-5/8" X 6" GALV U-BOLT | 30 | 0.72 LBS |
| 8 | GUB-5456 | 5/8" X 4-5/8" X 6 1/2" GALV U-BOLT | 6 | 0.72 LBS |
| 9 | MT-219-H | HARDWARE KIT (Next 3 items) | 12 | - |
| 10 | MT217.01 | PIPE MOUNT PLATE | 12 | 7.93 LBS |
| 11 | GUB-4240 | 1/2" X 2-1/2" X 4" GALV U-BOLT KIT | 24 | 0.57 LBS |
| 12 | GUB-4356 | 1/2" X 3-5/8" X 6" GALV U-BOLT KIT | 24 | 0.83 LBS |
| 13 | MT216.01 | 3 1/2" O.D. X 12-6" GALV. PIPE | 3 | 94.20 LBS |
| 14 | MT-XXXX | 2-3/8" O.D. PIPE (SEE TABLE) | 12 | - |

PART LIST FOR USE WITH T-FRAME MC-K12S-12 SERIES

MANUFACTURER: ANDREW
 PART #: MC-K12L-12 SERIES

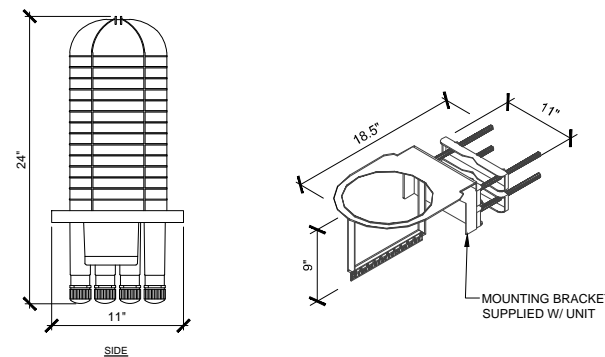


ANTENNA MOUNT

SCALE N.T.S. 7

RAYCAP DC6-48-60-18-8F

NUMBER OF RADIOS PROTECTED SUPPRESSION CONNECTION METHOD: 6 COMPRESSION LUG, #2-#14 AWG COPPER, #2-#12 ALUMINUM
 ENVIRONMENTAL RATING: IP 68, 7M 72HRS
 WEIGHT: 32.8 LBS (141.45 N)



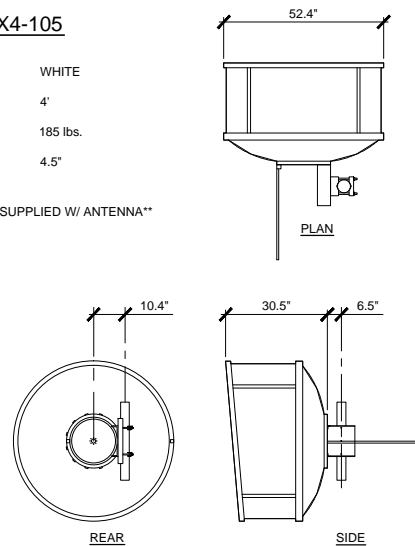
SURGE SUPPRESSOR

SCALE N.T.S. 8

ANDREW UHX4-105

RADOME COLOR: WHITE
 DIAMETER (nominal): 4"
 NET WEIGHT: 185 lbs.
 MOUNTING PIPE DIA.: 4.5"

*(1) STABILIZING ROD SUPPLIED W/ ANTENNA**



MICROWAVE SPECIFICATIONS

SCALE N.T.S. 9

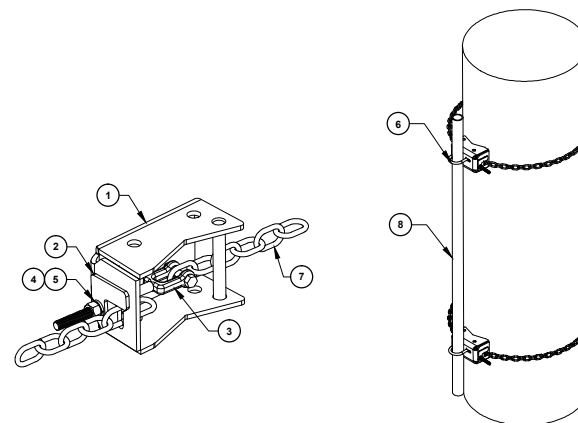
| ITEM | PART NO. | DESCRIPTION | QTY. | WEIGHT |
|------|----------|--------------------------------|------|----------|
| 1 | CM01 | Chain Mount Anchor | 2 | 6.17 LBS |
| 2 | CM.03 | CHAIN LOCK | 2 | 0.20 LBS |
| 3 | CM.04 | 1/2" X 6" Under Jaw Turnbuckle | 2 | 0.68 LBS |
| 4 | GWL-04 | 1/2" GALV LOCK WASHER | 2 | 0.01 LBS |
| 5 | GN-04 | 1/2" GALV HEX NUT | 2 | 0.02 LBS |
| 6 | GUB-4240 | 1/2" X 2-1/2" X 4" GALV U-BOLT | 2 | 0.72 LBS |
| 7 | G-4-XXX | CHAIN (SEE TABLE) | 2 | - |
| 8 | MT-XXX | Ø 4-1/2" O.D. PIPE | - | - |

ATTACH THE PIPES OR PIPE MOUNTS TO THE BRACKETS PRIOR TO ADDING JAW-BOLT/CHAIN ASSEMBLY

MANUFACTURER: ANDREW
 PART #: CM-S SERIES

SINGLE CHAIN MOUNT

SCALE N.T.S. 10



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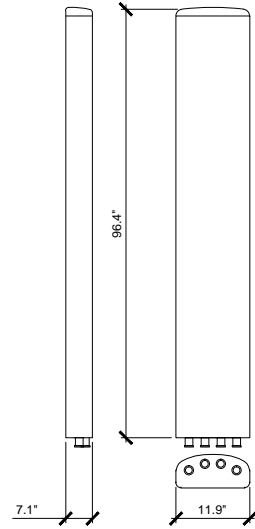
SHEET TITLE
DETAILS

SHEET NUMBER
RF-1

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

ANDREW SBNH-1D6565C

RADOME MATERIAL: PVC, UV RESISTANT
 RADOME COLOR: LIGHT GRAY
 DIMENSIONS, HxWxD: 96.4" x 11.9" x 7.1"
 WEIGHT, W/ PRE-MOUNTED BRACKETS: 66.1 lb
 CONNECTOR: 4 x 7/16 DIN FEMALE



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 SANDY, UTAH 84070
 (801) 463-1020

| REV | DATE | DESCRIPTION | BY |
|-----|-----------|------------------------------|-----|
| F | 8/26/2013 | ISSUED FOR 100% CONSTRUCTION | NSV |
| E | 7/31/2013 | ISSUED FOR 100% CONSTRUCTION | NSV |
| D | 7/25/2013 | ISSUED FOR 100% CONSTRUCTION | NSV |
| C | 7/10/2013 | ISSUED FOR 100% CONSTRUCTION | NSV |
| B | 7/03/2013 | ISSUED FOR 90% CONSTRUCTION | NSV |
| A | 6/03/2013 | ISSUED FOR 90% CONSTRUCTION | NSV |

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

POWDER MOUNTAIN
 POWDER MOUNTAIN
 EDEN, UT 84310
 NSB MONOPOLE

SHEET TITLE

DETAILS

SHEET NUMBER

RF-1.1

ANTENNA SPECIFICATIONS

SCALE
N.T.S.

1

NOT USED

2

NOT USED

SCALE
N.T.S.

3

NOT USED

SCALE
N.T.S.

4

NOT USED

SCALE
N.T.S.

5

NOT USED

SCALE
N.T.S.

6

NOT USED

SCALE
N.T.S.

7

NOT USED

SCALE
N.T.S.

8

NOT USED

SCALE
N.T.S.

9

NOT USED

SCALE
N.T.S.

10

NOT USED

SCALE
N.T.S.

11

NOT USED

SCALE
N.T.S.

12

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