



at&t

POWDER MOUNTAIN

NSB MONOPOLE

ENGINEERING

2008 INTERNATIONAL BUILDING CODE
 2003 INTERNATIONAL ELECTRICAL CODE
 19A-222-01 OR LATEST EDITION

GENERAL NOTES

THE FACILITY IS DIMENSIONED AND NOT FOR HUMAN HABITATION. A TECHNICIAN WILL VISIT THE SITE AS REQUIRED TO VERIFY THE DIMENSIONS AND TO CORRECT ANY ERRORS THAT MAY RESULT IN ANY SIGNIFICANT DISTURBANCE OR EFFECT ON THE ENVIRONMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS. SIGNAGE IS NEW.

PROJECT DESCRIPTION

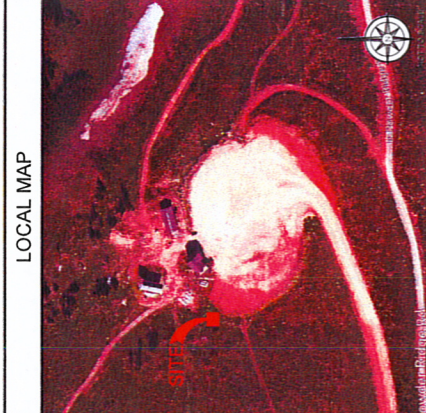
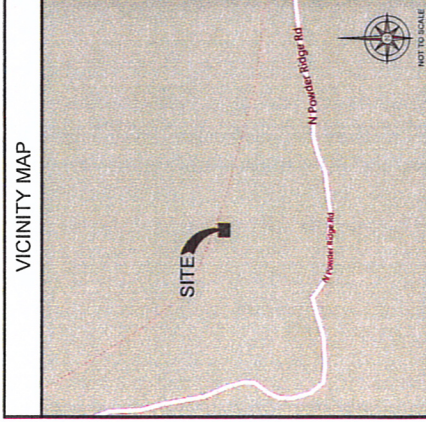
THE PROJECT CONSISTS OF THE INSTALLATION AND TESTING OF A MONOPOLE AND ANTENNA AT THE SITE. THE MONOPOLE AND ANTENNA SHALL BE INSTALLED IN ACCORDANCE WITH THE SPECIFICATIONS AND REQUIREMENTS OF THE LOCAL BUILDING DEPARTMENT AND ANY OTHER APPLICABLE REGULATIONS.

SITE INFORMATION

PROPERTY OWNER: POWDER MOUNTAIN LOCAL, UT 84310
 ADDRESS: 4393 RIVERBOAT ROAD, SUITE #100, TAYLORSVILLE, UT 84123
 TOWER OWNER: AT&T
 SITE NAME: POWDER MOUNTAIN
 SITE CONTACT: WEBER
 COUNTY: WEBER
 LATITUDE (NAD 83): 41° 22' 16.26" N
 LONGITUDE (NAD 83): 111° 45' 58.97" W
 ZONING JURISDICTION: WEBER COUNTY
 ZONING CLASSIFICATION: -
 PARCEL #: -
 POWER COMPANY: ROCKY MTN POWER
 TELEPHONE COMPANY: CL
 JARED WHITE
 (801) 333-9953
 SITE ACQUISITION CONTACT: ERIN S. BERTHA
 (872) 334-2732
 RF ENGINEER: TROY HALL
 (801) 201-7470
 CONSTRUCTION MANAGER: TROY HALL
 (801) 201-7470

CONTACT INFORMATION

ENGINEER: TECHNOLOGY ASSOCIATES
 9847 SOUTH 500 WEST
 SANDY, UT 84070
 CONTACT: JEFF VANDERVEEN
 (801) 919-2995



DRIVING DIRECTIONS

- STARTING FROM AT&T OFFICE, 4393 RIVERBOAT ROAD, TAYLORSVILLE, UT.
- DEPART RIVERBOAT RD TOWARD UT-206 W / W 4300 S
- TURN LEFT ONTO UT-206 E / W 4300 S
- TAKE RAMP LEFT FOR I-15 N
- KEEP STRAIGHT ONTO I-15 N / I-154 W
- AT EXIT 34, TAKE RAMP RIGHT AND FOLLOW SIGNS FOR UT-39
- TURN RIGHT ONTO UT-39 W / 12TH ST / W 1200 S
- KEEP RIGHT TO STAY ON UT-158 W / I-158
- TURN LEFT ONTO UT-158
- KEEP RIGHT TO STAY ON UT-158 W / I-158
- ROAD NAME CHANGES TO HEDGER LAKE EXPRESS
- FOLLOW ROAD UP TO HEDGER LAKE EXPRESS
- SITE IS LOCATED ON WEBER COUNTY SIDE OF COUNTY LINE.

4393 RIVERBOAT ROAD, SUITE #100
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

1	ISSUED	ISSUED FOR CONSTRUCTION	NO
2	ISSUED	ISSUED FOR CONSTRUCTION	NO
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10	ISSUED	ISSUED FOR CONSTRUCTION	NO
REV	DATE	DESCRIPTION	BY

IT IS A FEDERAL LAW FOR ANY PERSON, FIRM OR CORPORATION TO REPRODUCE OR TRANSMIT IN ANY MANNER THE CONTENTS OF THIS DOCUMENT.

POWDER MOUNTAIN
POWDER MOUNTAIN
EDEN, UT 84310
NSB MONOPOLE

TITLE SHEET
SHEET TITLE

SHEET NUMBER
T-1

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: _____
 TA&C 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 THIS PROJECT IS STRICTLY PROHIBITED.

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RF-1.1	DETAILS
RF-1.1	DETAILS

DO NOT SCALE DRAWINGS

CONTRACTOR SHALL VERIFY ALL PLANS & EXISTING DIMENSIONS & CONDITIONS ON THE JOB SITE 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



3393 RIVERBOAT ROAD, SUITE #400
TALONSWILL, UTAH 84125

GENERAL DYNAMICS
Information Technology

1150 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

NO	REVISED FOR WORK CONSTRUCTION	NO
1	ISSUED	NO
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30	REVISED FOR WORK CONSTRUCTION	NO

POWDER MOUNTAIN
EDEN, UT 84310
NSB MONOPOLE

SHEET TITLE
SIGNAGE & NOTES

SHEET NUMBER
T-5

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	ENTRANCE GATE SHIELDING DOORS OR SHIELDING CABINETS	CLIMBING SIZE OF THE TOWER	ON BACKSIDE OF ANTENNAS	ON THE SIDE OF ANTENNAS	ON THE SHELTER DOOR OR ON ONE SIDE OF SHIELDING EQUIPMENT CABINET				
	SHELDING DOORS OR SHIELDING CABINETS	CLIMBING SIZE OF THE TOWER	ON BACKSIDE OF ANTENNAS	ON THE SIDE OF ANTENNAS	ON THE SHELTER DOOR OR ON ONE SIDE OF SHIELDING EQUIPMENT CABINET				
	ENTRANCE GATE SHIELDING DOORS OR SHIELDING CABINETS	CLIMBING SIZE OF THE TOWER	ON BACKSIDE OF ANTENNAS	ON THE SIDE OF ANTENNAS	ON THE SHELTER DOOR OR ON ONE SIDE OF SHIELDING EQUIPMENT CABINET				AT THE HEIGHT OF THE CLIMBING STEP, MIN. 9 FT ABOVE GROUND.
	ENTRANCE GATE SHIELDING DOORS OR SHIELDING CABINETS	CLIMBING SIZE OF THE TOWER	ON BACKSIDE OF ANTENNAS	ON THE SIDE OF ANTENNAS	ON THE SHELTER DOOR OR ON ONE SIDE OF SHIELDING EQUIPMENT CABINET				AT THE HEIGHT OF THE CLIMBING STEP, MIN. 9 FT ABOVE GROUND.
	ENTRANCE GATE SHIELDING DOORS OR SHIELDING CABINETS	CLIMBING SIZE OF THE TOWER	ON BACKSIDE OF ANTENNAS	ON THE SIDE OF ANTENNAS	ON THE SHELTER DOOR OR ON ONE SIDE OF SHIELDING EQUIPMENT CABINET				IF GPV MAX VALUE OF MRE AT ANTENNA LEVEL IS 0.599, NOTICE SIGN SHALL BE POSTED AT AN ANTENNA AND 9 FT ABOVE GROUND.
UTILITY WOOD POLES (UP)	ENTRANCE GATE SHIELDING DOORS OR SHIELDING CABINETS	ON THE POLE, NO LOWER THAN 3 FT BELOW THE ANTENNA	ON BACKSIDE OF ANTENNAS	ON THE SIDE OF ANTENNAS	ON THE SHELTER DOOR OR ON ONE SIDE OF SHIELDING EQUIPMENT CABINET				NOTICE OR CAUTION SIGN AT 150 FEET OR MORE FROM ANTENNA ONLY IF THE EXPOSURE EXCEEDS THE LIMITS FOR EXPOSURE TO ANTENNAS.
ROOF TOPS	ENTRANCE GATE SHIELDING DOORS OR SHIELDING CABINETS	ON THE POLE, NO LOWER THAN 3 FT BELOW THE ANTENNA	ON BACKSIDE OF ANTENNAS	ON THE SIDE OF ANTENNAS	ON THE SHELTER DOOR OR ON ONE SIDE OF SHIELDING EQUIPMENT CABINET				NOTICE OR CAUTION SIGN AT 150 FEET OR MORE FROM ANTENNA ONLY IF THE EXPOSURE EXCEEDS THE LIMITS FOR EXPOSURE TO ANTENNAS.
AT ALL ACCESS POINTS OF THE ROOF									
ON ANTENNAS				X					
CONCEALED ANTENNAS				X					
ANTENNAS MOUNTED FACING OUTSIDE THE BUILDING				X					
ANTENNAS ON SUPPORT STRUCTURE				X					
ROOFTOP GRAPH				X					
ADJACENT TO EXISTING ANTENNAS				X					
ANTENNAS IN SHEDS OR JFT FROM BUILDING				X					
CHURCH STEEPLES	ACCESS TO STEEPLE	ADJACENT TO EXISTING ANTENNAS ARE CONCEALED	ON BACKSIDE OF ANTENNAS	ON THE SIDE OF ANTENNAS	ON THE SHELTER DOOR OR ON ONE SIDE OF SHIELDING EQUIPMENT CABINET	OPTIONAL YELLOW STRIPING VIEW GRAPH			CAUTION SIGN AT THE ANTENNAS
WATER STATIONS	ACCESS TO STEEPLE	ADJACENT TO EXISTING ANTENNAS ARE CONCEALED	ON BACKSIDE OF ANTENNAS	ON THE SIDE OF ANTENNAS	ON THE SHELTER DOOR OR ON ONE SIDE OF SHIELDING EQUIPMENT CABINET				CAUTION SIGN AT THE ANTENNAS

NOTES FOR FACTORY BUILTS:

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.
2. EITHER NOTICE OR CAUTION SIGN ONLY WHEN CAUTION SIGN IS YELLOW. CAUTION SIGN MUST BE INSTALLED.
3. SHOULD THE REQUIRED STRIPING BE INTERFERED BY ANY STRUCTURES OR EQUIPMENT (AC, VENTS, ROOF WATCH DOORS, OTHER ANTENNAS, DIPPERS, ETC.), PLEASE NOTIFY AT&T TO MODIFY THE STRIPING AREA PRIOR TO STARTING THE WORK.



ALERTING SIGN

STAY BACK 3 FEET FROM ANTENNA

CAUTION

Beyond This Point, you are entering a controlled area where RF emissions may exceed the FCC Occupational Exposure Limits. Stay all posted signs and site guidelines for working on RF environment.

NOTICE

Beyond This Point, you are entering a controlled area where RF emissions may exceed the FCC Occupational Exposure Limits. Stay all posted signs and site guidelines for working on RF environment.

ALERTING SIGNS

WARNING!

PROPERTY OF AT&T
AUTHORIZED PERSONNEL ONLY

IN CASE OF EMERGENCY, OR PRIOR TO PERFORMING MAINTENANCE ON THIS SITE, CALL 800-438-2922 AND REFERENCE CELL SITE NUMBER.

INFO SIGN #5



WARNING!

DANGER DO NOT TOUCH TOWERS

REMOVE ALL POWER FROM ALL POWER LINES AND SITE EQUIPMENT

REMOVE ALL POWER FROM ALL POWER LINES AND SITE EQUIPMENT

REMOVE ALL POWER FROM ALL POWER LINES AND SITE EQUIPMENT

ALERTING SIGN

INFORMATION

AT&T operates this information system... Stay back 3 feet from antennas.

INFORMACION

AT&T opera este sistema de informacion... Stay back 3 feet from antennas.

INFO SIGN #4

INFO SIGN #2

INFO SIGN #1

GENERAL NOTES



4393 RIVERBOAT ROAD, SUITE #400
JAYLORSVILLE, 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

REV	DATE	DESCRIPTION	BY
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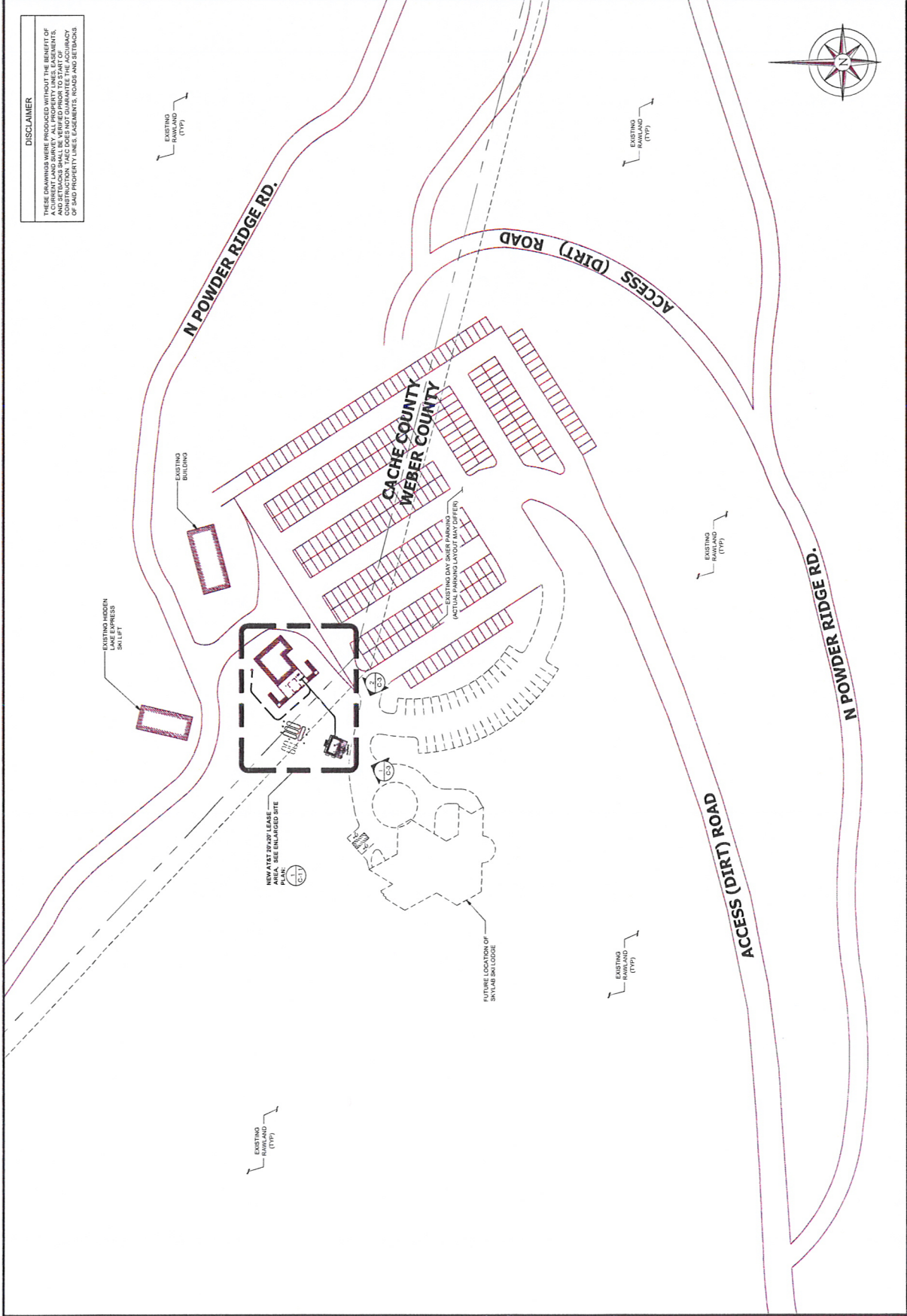
IT IS A PORTION OF A LARGER PROJECT. THIS SHEET IS A SEPARATE DOCUMENT FROM THE TOTAL SHEET DEVELOPMENT.

POWDER MOUNTAIN
POWDER MOUNTAIN
EDEN, UT 84310
NSB MONOPOLE

SHEET TITLE
OVERALL SITE PLAN

SHEET NUMBER
C-1

DISCLAIMER
THESE DRAWINGS WERE PRODUCED WITHOUT THE BENEFIT OF A PROFESSIONAL ENGINEER'S REVIEW. THE CLIENT'S RESPONSIBILITY IS TO VERIFY THE ACCURACY OF ALL INFORMATION AND TO OBTAIN NECESSARY PERMITS AND SETBACKS PRIOR TO START OF CONSTRUCTION. THE CLIENT'S RESPONSIBILITY IS TO OBTAIN NECESSARY PERMITS AND SETBACKS PRIOR TO START OF CONSTRUCTION. THE CLIENT'S RESPONSIBILITY IS TO OBTAIN NECESSARY PERMITS AND SETBACKS PRIOR TO START OF CONSTRUCTION.



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

OVERALL SITE PLAN



4393 RIVERBOAT ROAD, SUITE #400
TAYLORSVILLE, UTAH 84125

GENERAL DYNAMICS
Information Technology

1152 W. 2400 S., SUITE C
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Technology Associates

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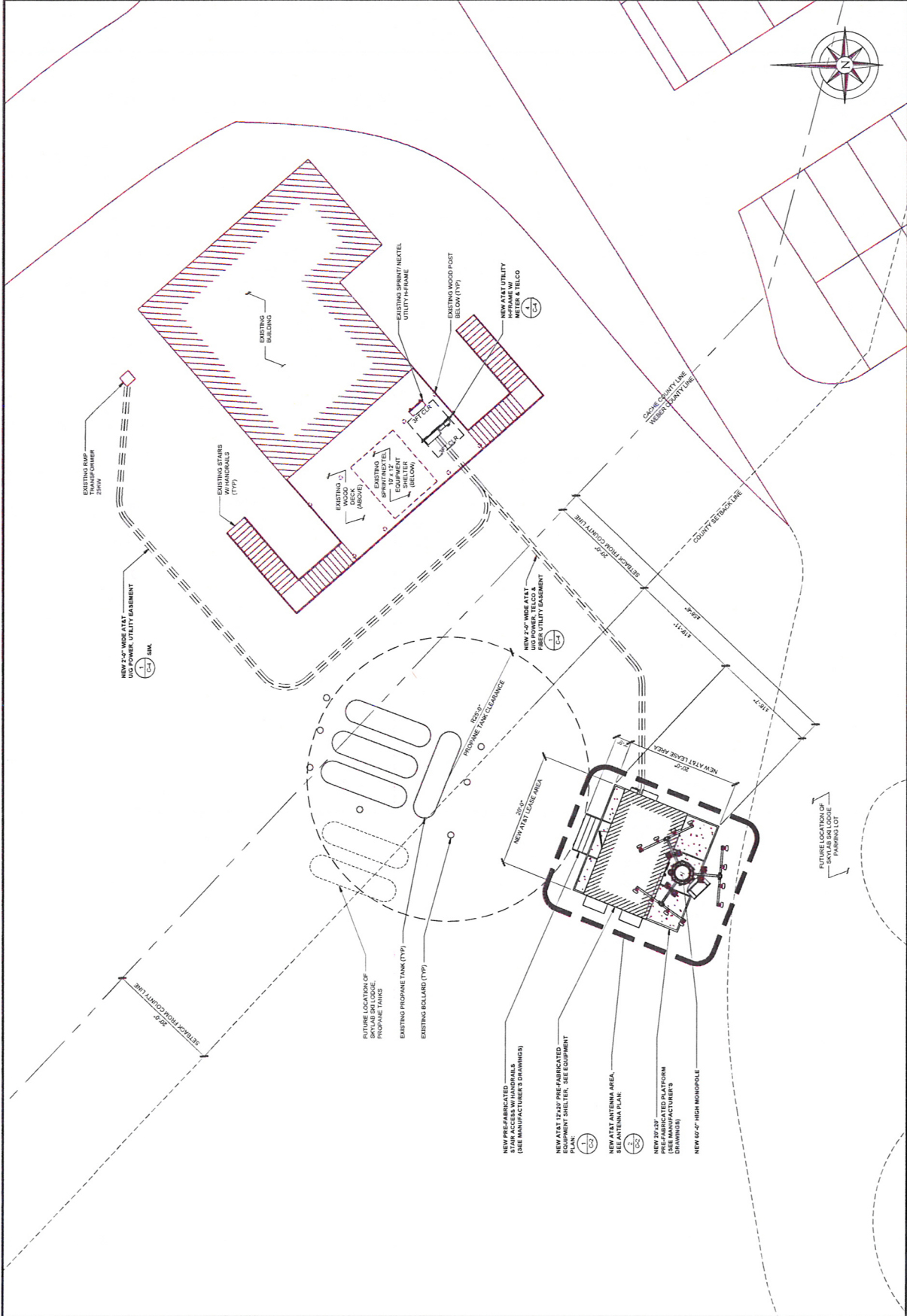
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E	02/09/13	PROJECT FOR NON-CONSTRUCTION	MM	MM
D	02/09/13	PROJECT FOR NON-CONSTRUCTION	MM	MM
C	02/09/13	PROJECT FOR NON-CONSTRUCTION	MM	MM
B	02/09/13	PROJECT FOR NON-CONSTRUCTION	MM	MM
A	02/09/13	PROJECT FOR NON-CONSTRUCTION	MM	MM
1	02/09/13	PROJECT FOR NON-CONSTRUCTION	MM	MM

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POWDER MOUNTAIN
POWDER MOUNTAIN
EDEN, UT 84310
NSB MONOPOLE

SHEET TITLE
**OVERALL
SITE PLAN**

SHEET NUMBER
C-1.1



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

OVERALL SITE PLAN

1



4393 RIVERBOAT ROAD, SUITE #400
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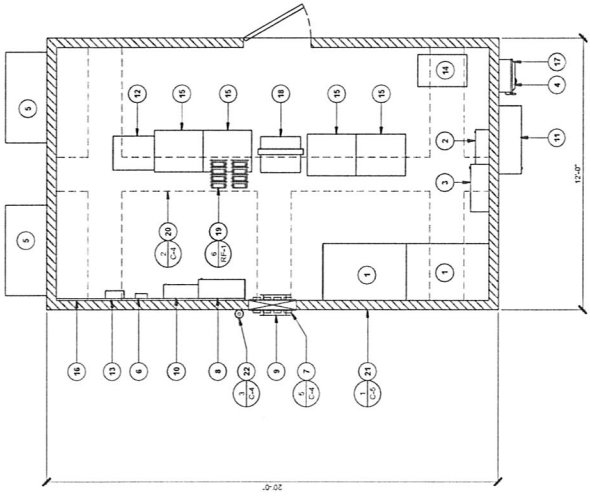
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POWDER MOUNTAIN
POWDER MOUNTAIN
EDEN, UT 84310
NSB MONOPOLE

SHEET TITLE
**EQUIPMENT &
ANTENNA PLANS**

SHEET NUMBER
C-2

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



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 #4 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 NU (S)
- 11 NEW AT&T TELCO JUNCTION BOX
- 12 NEW AT&T DDX PANEL
- 13 NEW AT&T ALUMINUM 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 15" RACK
- 19 NEW AT&T DIPLERS MOUNTED TO CABLE LADDER (ABOVE)
- 20 NEW AT&T CABLE LADDER (ABOVE)
- 21 NEW AT&T 12X24" PREFABRICATED SHELTER
- 22 NEW AT&S ANTENNA

EQUIPMENT PLAN

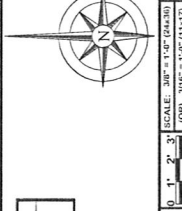
SCALE: 3/8" = 1'-0" (1:240)
(OR) 3/16" = 1'-0" (1:480)

1

NEW ANTENNA AND TRANSMISSION CABLE REQUIREMENT

SECTOR	ANTENNA TYPE	TECHNOLOGY	ANTENNA HEIGHT	TRANSMISSION CABLE
A	NEW ANTENNA	UMTS	65'	QTY. LENGTH TYPE
B	FUTURE ANTENNA		TO BE DETERMINED	
C	FUTURE ANTENNA		TO BE DETERMINED	
D	NEW ANTENNA	LTE	65'	QTY. LENGTH TYPE
E	NEW ANTENNA	UMTS	195'	QTY. LENGTH TYPE
F	FUTURE ANTENNA		TO BE DETERMINED	
G	FUTURE ANTENNA		TO BE DETERMINED	
H	NEW ANTENNA	LTE	195'	QTY. LENGTH TYPE
I	NEW ANTENNA	UMTS	335'	QTY. LENGTH TYPE
J	FUTURE ANTENNA		TO BE DETERMINED	
K	NEW ANTENNA	LTE	335'	QTY. LENGTH TYPE

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



ANTENNA PLAN

SCALE: 3/8" = 1'-0" (1:240)
(OR) 3/16" = 1'-0" (1:480)

2



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Information Technology

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SANDY, UTAH 84070
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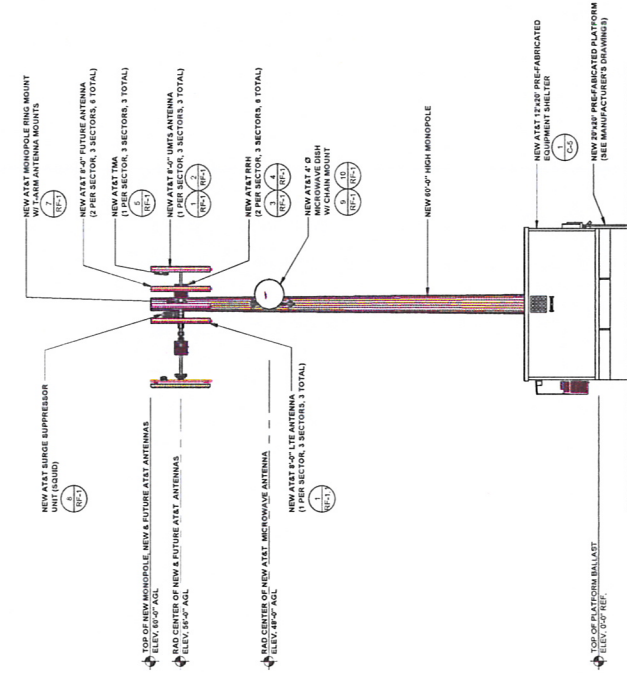
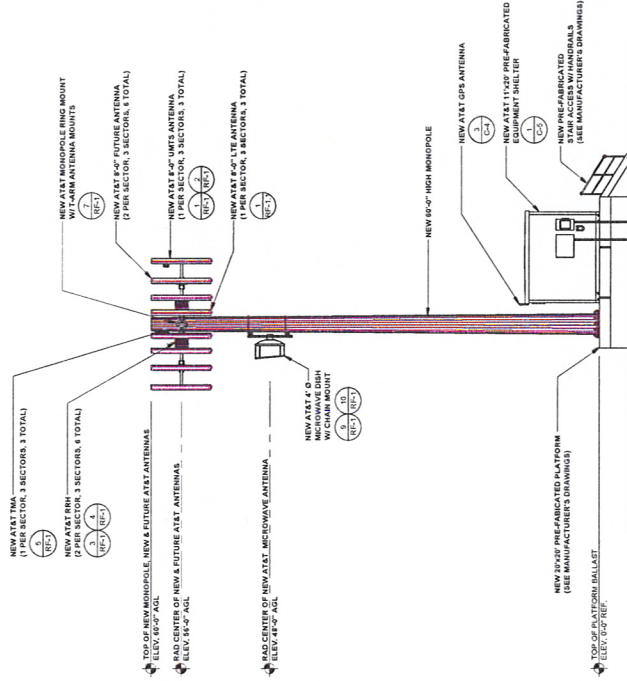
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UTAH MARKET OFFICE
POWDER MOUNTAIN
EDEN, UT 84310
NSB MONOPOLE

POWDER MOUNTAIN
POWDER MOUNTAIN
EDEN, UT 84310
NSB MONOPOLE

SHEET TITLE
SOUTHWEST & SOUTHEAST ELEVATIONS

SHEET NUMBER
C-3



2

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

SOUTHEAST ELEVATION

1

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

SOUTHWEST ELEVATION



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

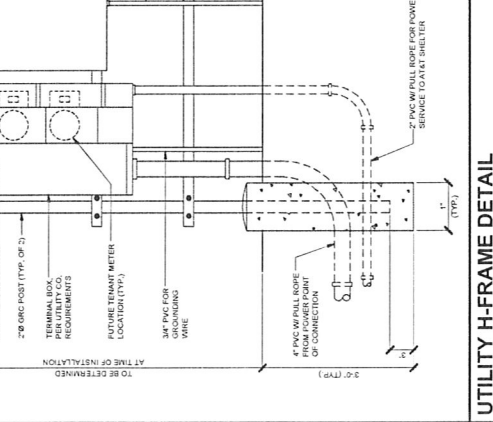
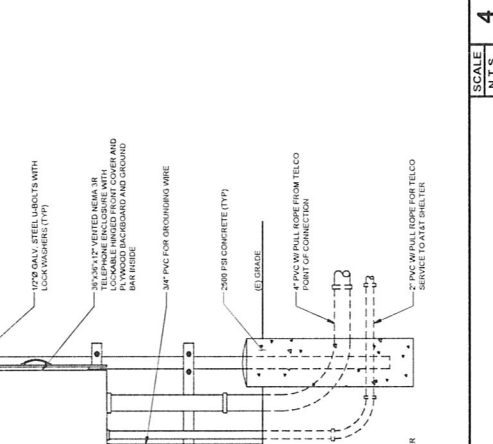
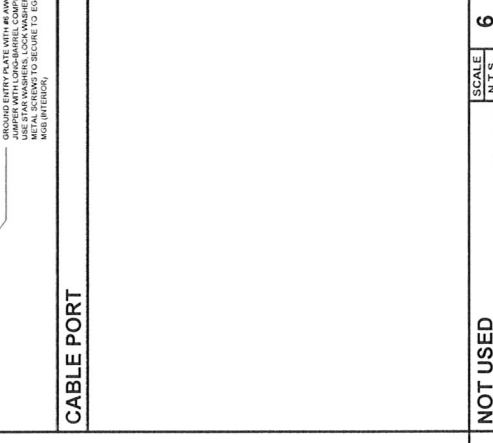
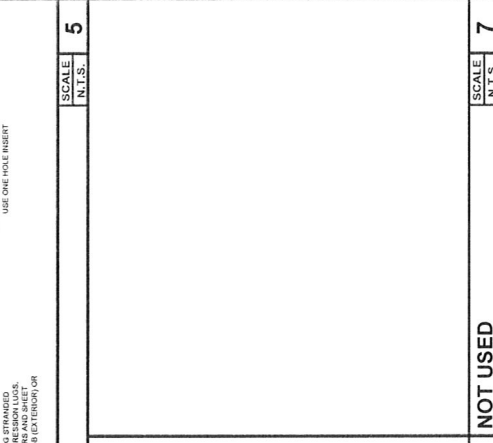
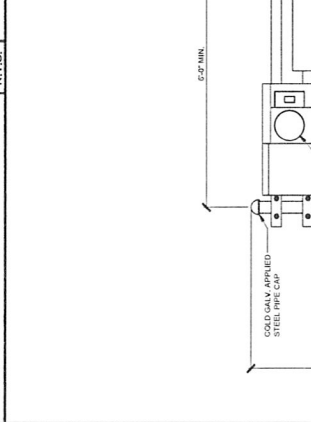
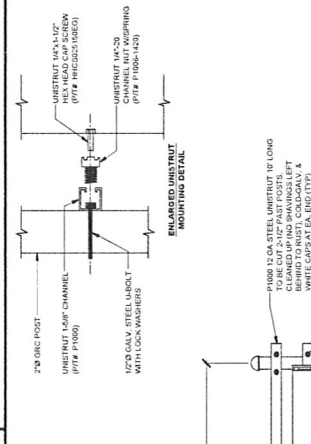
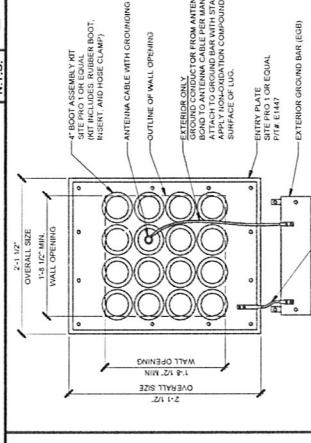
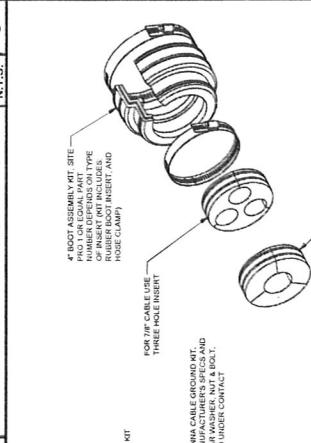
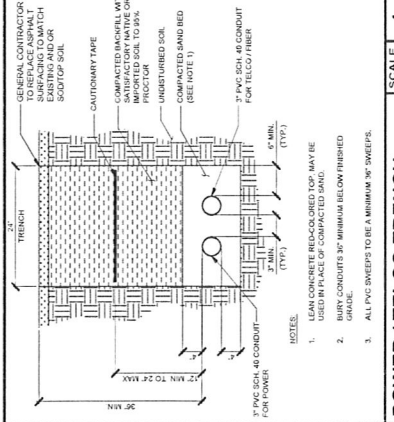
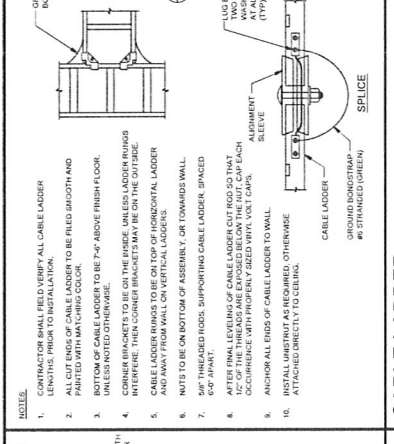
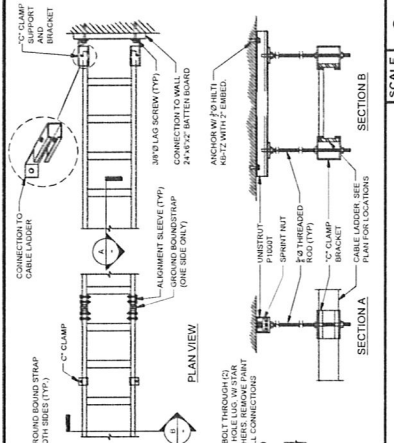
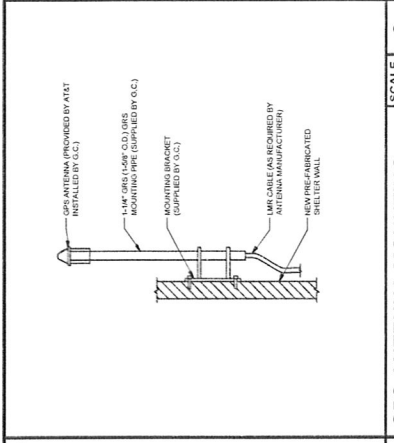
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IF A VENDOR IS USED FOR ANY MATERIALS, THE USER SHALL BE RESPONSIBLE FOR OBTAINING THE NECESSARY PERMITS AND APPROVALS FROM THE LOCAL JURISDICTION.

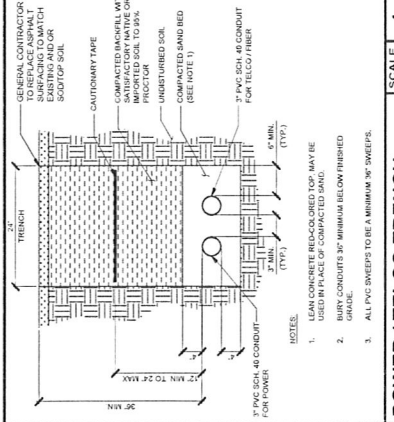
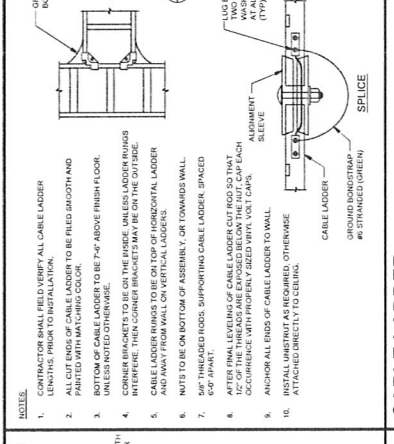
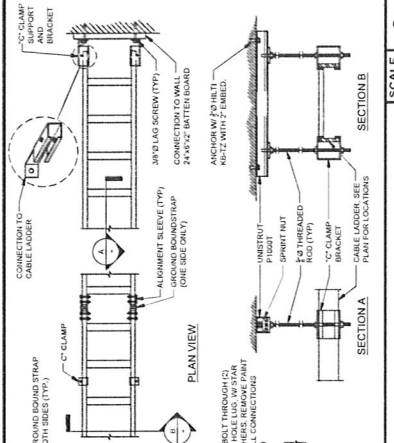
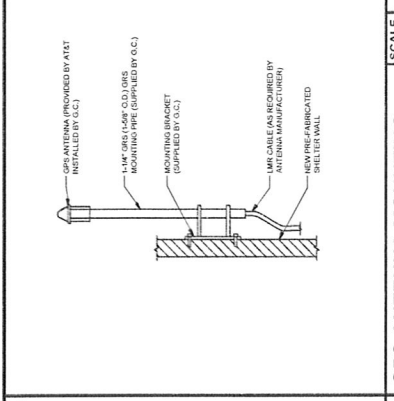
POWDER MOUNTAIN
POWDER MOUNTAIN
EDEN, UT 84310
NSB MONOPOLE

SHEET TITLE
DETAILS

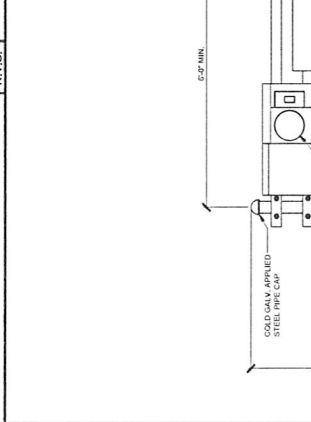
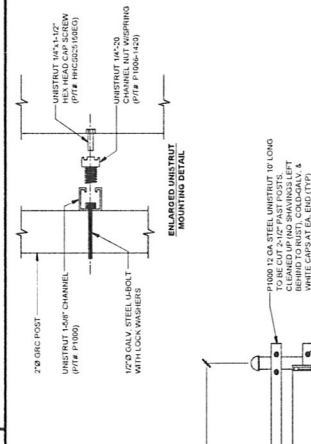
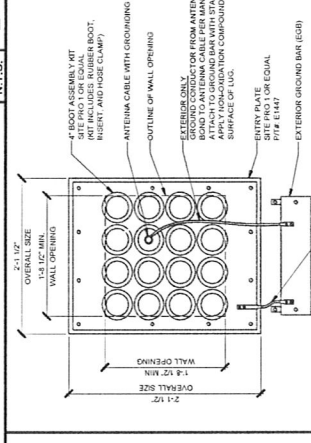
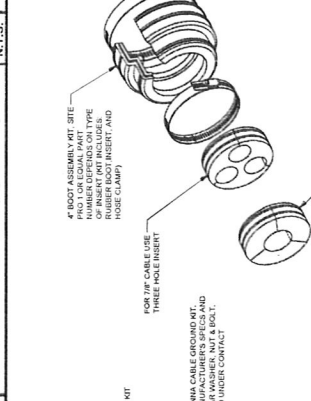
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C-4



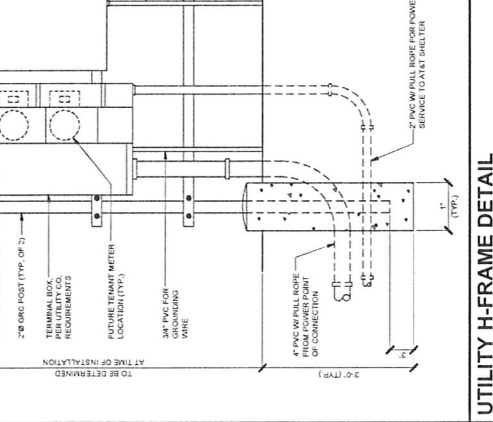
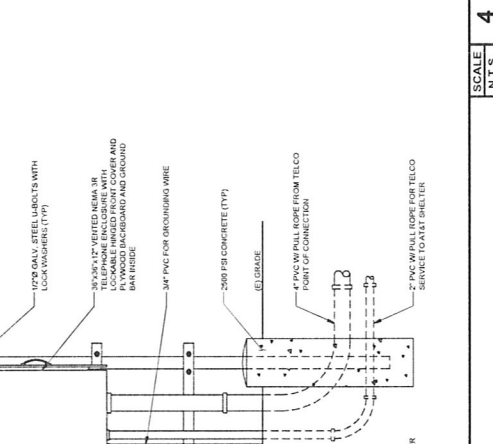
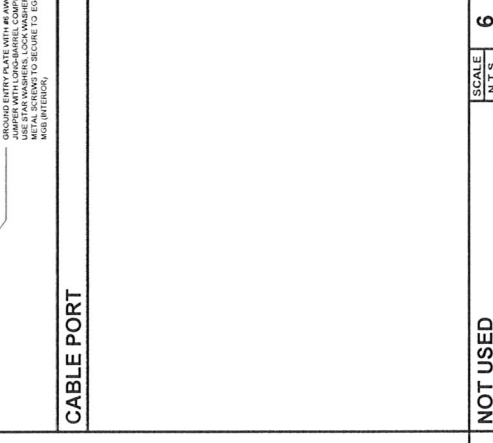
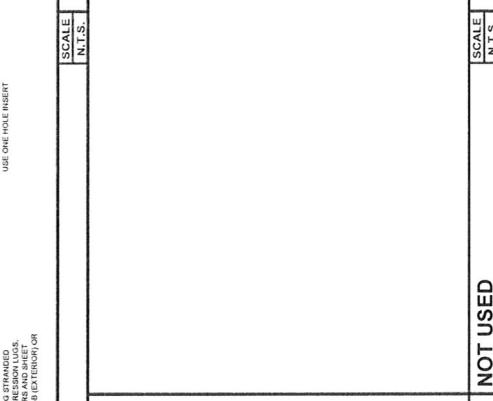
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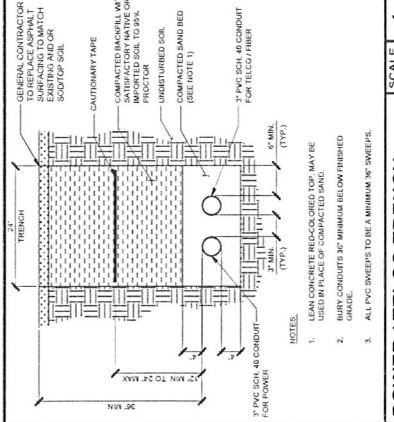
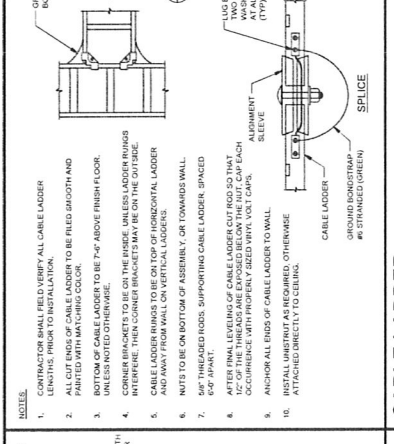
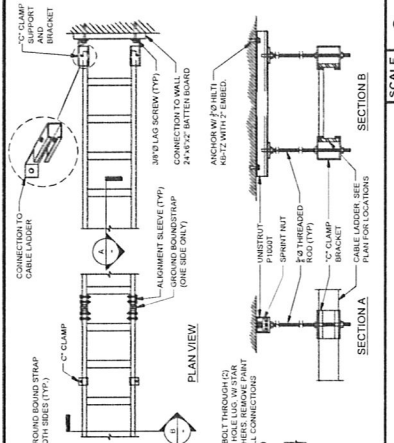
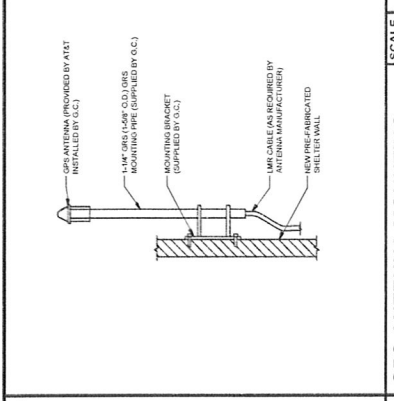
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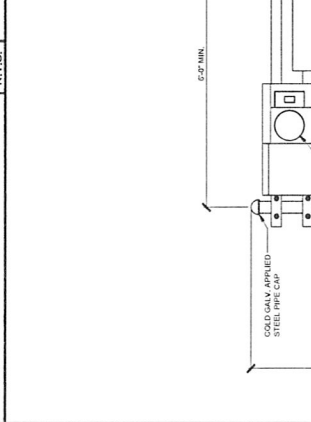
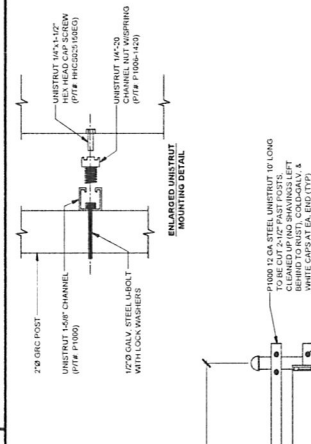
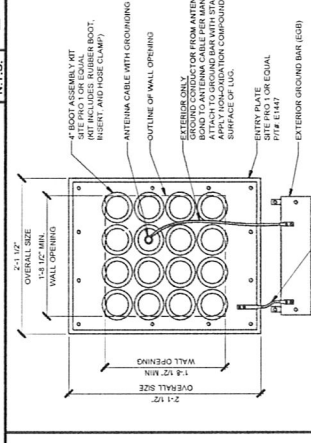
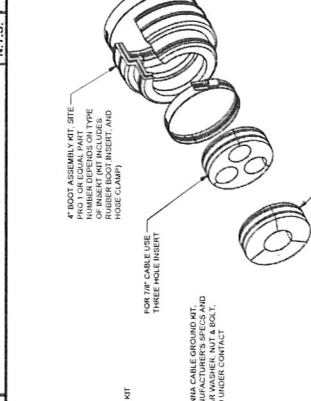
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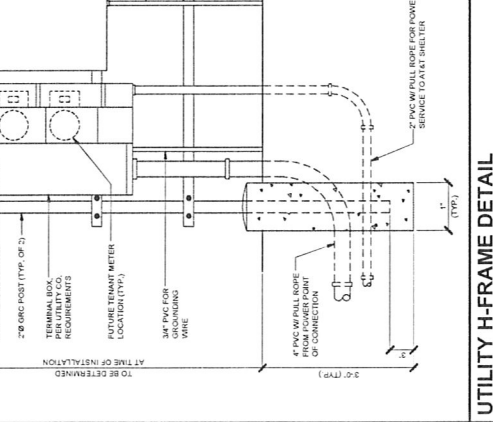
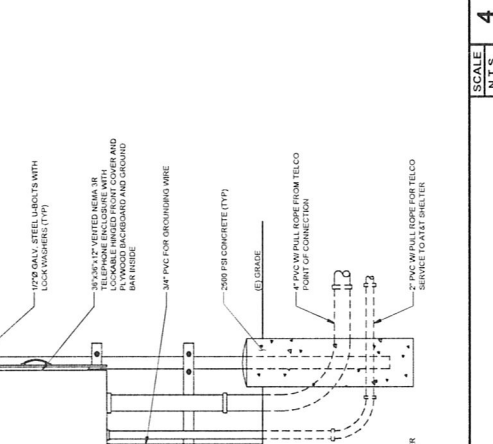
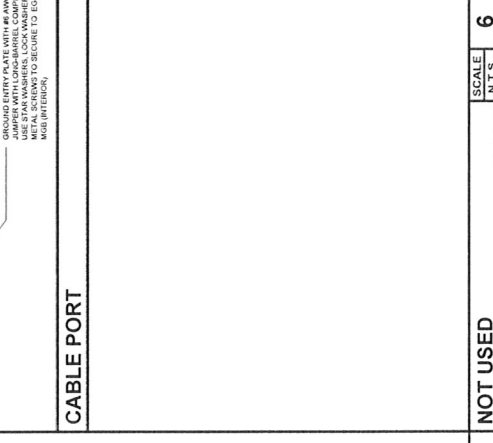
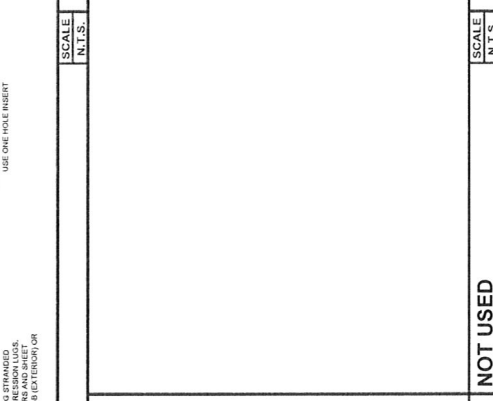
UTILITY H-FRAME DETAIL



NOT USED



NOT USED



NOT USED





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(801) 463-1020

REV	DATE	DESCRIPTION	BY
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POWDER MOUNTAIN
POWDER MOUNTAIN
EDEN, UT 84310
NSB MONOPOLE

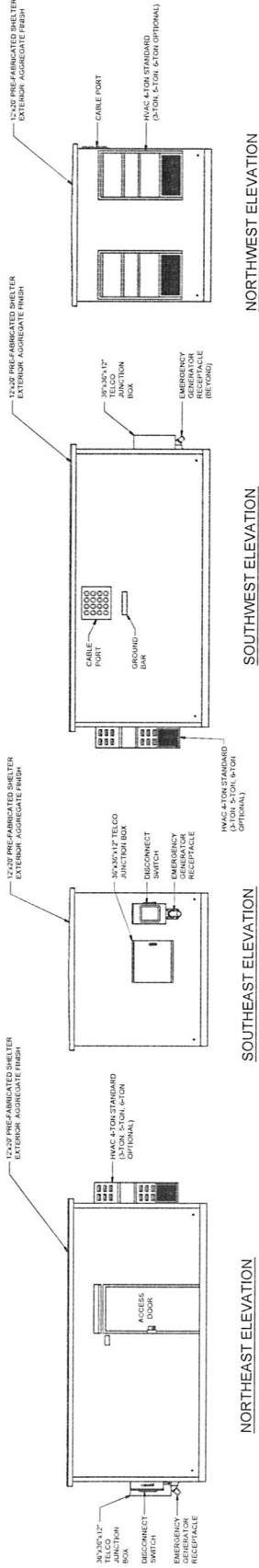
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POWDER MOUNTAIN
EDEN, UT 84310
NSB MONOPOLE

SHEET TITLE

DETAILS

SHEET NUMBER

C-5



SCALE
N.T.S.

SHELTER ELEVATIONS

SCALE
N.T.S.

NOT USED



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NO.	DATE	DESCRIPTION	BY
1	REVISED	DESIGN FOR CONSTRUCTION	BY
2	REVISED	DESIGN FOR CONSTRUCTION	BY
3	REVISED	DESIGN FOR CONSTRUCTION	BY
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7	REVISED	DESIGN FOR CONSTRUCTION	BY
8	REVISED	DESIGN FOR CONSTRUCTION	BY
9	REVISED	DESIGN FOR CONSTRUCTION	BY
10	REVISED	DESIGN FOR CONSTRUCTION	BY

IF IT IS A VIOLATION OF LAW OR ANY FEELING,
WE WILL BE RESPONSIBLE FOR THE REVISION.
TOTAL SHEET DOCUMENT

POWDER MOUNTAIN
POWDER MOUNTAIN
EDEN, UT 84310
NSB MONOPOLE

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

SHEET NUMBER
E-1

ABBREVIATIONS

ANTENNA CABLE COVER ASSEMBLY
AMERICAN WIRE GAUGE
BASE FINED COPPER WIRE
COAX INSULATED GROUND
DRAWING
ELECTRICAL METALLIC TUBING
GENERATOR
GROUND FAULT CIRCUIT INTERRUPTER
GLOBAL POSITIONING SYSTEM
GROWTH

ACCA
AWG
BICW
CDBE
CO
DWG
EMT
GEN
GFI
GPS
GR

INTERIOR GROUND RING (IAGR)
MASTER ISOLATED GROUND BAR
NEW PROVIDED AND INSTALL
PERSONAL COMMUNICATION SERVICE
POWER PROTECTION CABINET
POLYVINYL CHLORIDE CONDUIT
RIPD GALVANIZED STEEL
SINGLE LINE DIAGRAM
VISION WIRELESS
WIRELESS INTERCOM
TELEPHONE
TYPICAL
WEATHERPROOF EQUIPMENT

SYMBOLS

COMPRESSION CLAMP OR DOUBLE
HOLE LUG TYPE GROUND CONNECTION
ELECTRICAL CONNECTION (GROUND) TO
GROUND HALO
GROUNDING WIRE DASHED LINE INDICATES
UNDERGROUND
TELEPHONE LINE DASHED LINE INDICATES
UNDERGROUND
COAXIAL CABLE DASHED LINE INDICATES
ANTENNA COAX
DETAIL REFERENCE

GROUNDING ROD WITH ACCESS
AT GROUND ROD
DISCONNECT SWITCH
UTILITY METER
CIRCUIT BREAKER
FUSE
GENERATOR
LIGHT SWITCH

KEY NOTES:

1. NEW 200 AMP/300 VOLT 2-POLE 3-WIRE HEAVY DUTY
FUSED DISCONNECT SWITCH, SEMI-INSULATED OR SQUARE TOP DESIGN,
1-PHASE, C.L., D.E., T.O.
2. NEW 500 X 100 COPPER CLAD STEEL GROUND ROD AND
#10 CU GROUND BOND TO GROUND ROD.
3. NEW 2-1/2" X 3/8" 1/2" GROUND CU THINWALL
RELATION TO HANG

KEY NOTES:

1. NEW AUTOMATIC TRANSFER SWITCH, GENERAC MODEL 8041482,
200 AMP, 120/240 VOLT, 1-PHASE, 3-WIRE, 2-POLE, 42 KVA;
2. NEW INTEGRATED LOAD CENTER (PANEL) WITH 200 AMP/300-POLE
SHELTER MANUFACTURER, 1-TIER OR SWITCH PROVIDED BY
SHELTER MANUFACTURER.
3. NEW 1/2" - 1/2" CU BOND TO MASTER GROUND BAR "MGB"
4. NEW 2-1/2" X 3/8" 1/2" GROUND CU THINWALL

KEY NOTES:

1. NEW 200 AMP/300 VOLT 2-POLE 3-WIRE HEAVY DUTY
FUSED DISCONNECT SWITCH, SEMI-INSULATED OR SQUARE TOP DESIGN,
1-PHASE, C.L., D.E., T.O.
2. NEW 500 X 100 COPPER CLAD STEEL GROUND ROD AND
#10 CU GROUND BOND TO GROUND ROD.
3. NEW 2-1/2" X 3/8" 1/2" GROUND CU THINWALL
RELATION TO HANG

KEY NOTES:

1. NEW AUTOMATIC TRANSFER SWITCH, GENERAC MODEL 8041482,
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2. NEW INTEGRATED LOAD CENTER (PANEL) WITH 200 AMP/300-POLE
SHELTER MANUFACTURER, 1-TIER OR SWITCH PROVIDED BY
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KEY NOTES:

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4. NEW 2-1/2" X 3/8" 1/2" GROUND CU THINWALL

KEY NOTES:

1. NEW AUTOMATIC TRANSFER SWITCH, GENERAC MODEL 8041482,
200 AMP, 120/240 VOLT, 1-PHASE, 3-WIRE, 2-POLE, 42 KVA;
2. NEW INTEGRATED LOAD CENTER (PANEL) WITH 200 AMP/300-POLE
SHELTER MANUFACTURER, 1-TIER OR SWITCH PROVIDED BY
SHELTER MANUFACTURER.
3. NEW 1/2" - 1/2" CU BOND TO MASTER GROUND BAR "MGB"
4. NEW 2-1/2" X 3/8" 1/2" GROUND CU THINWALL

KEY NOTES:

1. NEW AUTOMATIC TRANSFER SWITCH, GENERAC MODEL 8041482,
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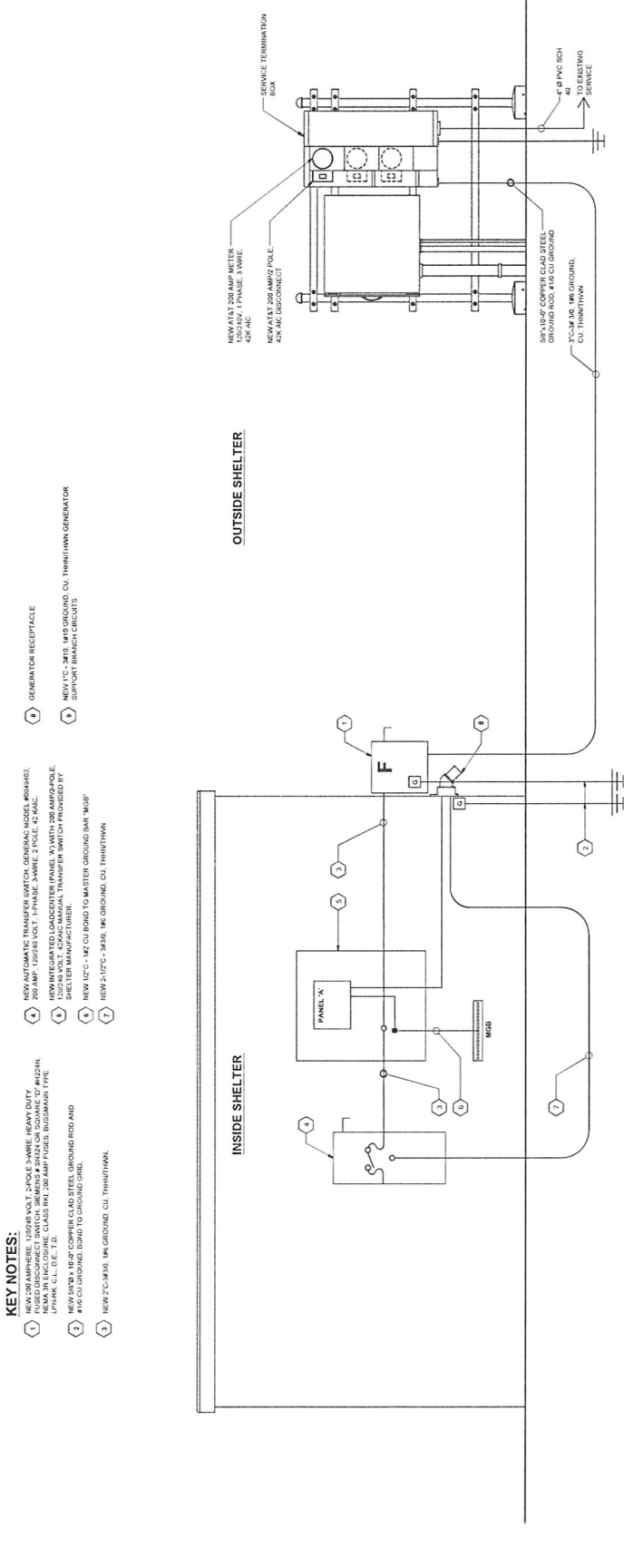
KEY NOTES:

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SCALE
N.T.S. 1

SCALE
N.T.S. 2

ELECTRICAL NOTES



ONE-LINE DIAGRAM



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INDIANVILLE, UTAH 84125

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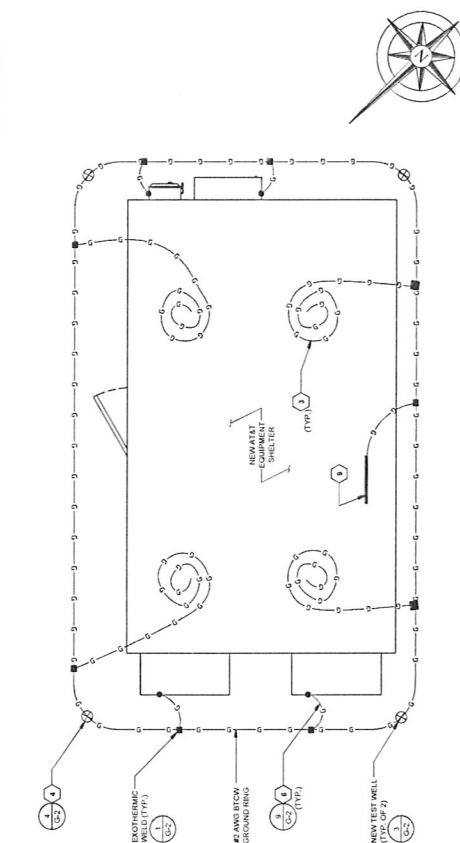
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POWDER MOUNTAIN
EDEN, UT 84310
NSB MONOPOLE

SHEET TITLE
GROUNDING PLANS

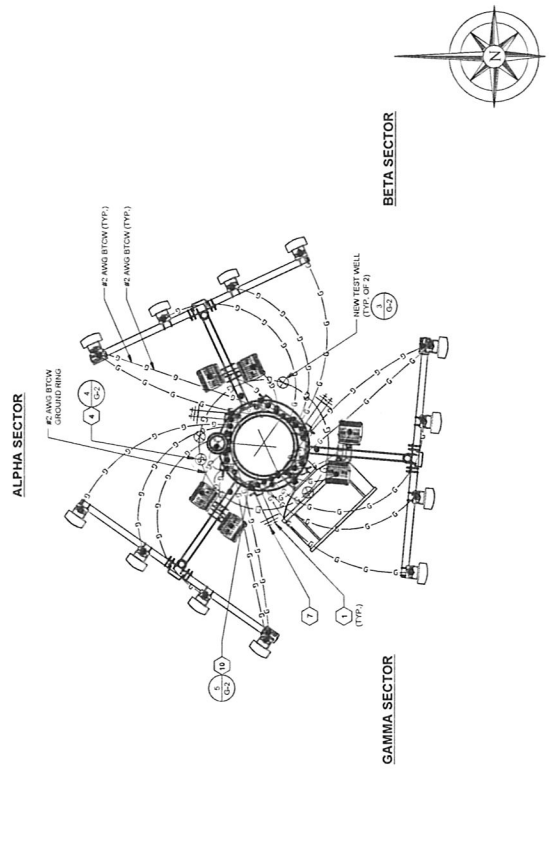
SHEET NUMBER
G-1

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



SCALE
N.T.S. **2**

EQUIPMENT GROUNDING



SCALE
N.T.S. **3**

ANTENNA GROUNDING

- GROUNDING SPECIFICATIONS**
- GROUNDING SHALL COMPLY WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE CURRENTLY IN EFFECT FOR THE AUTHORITY HAVING JURISDICTION.
 - ALL GROUNDING DEVICES SHALL BE U.L. LISTED FOR THEIR INTENDED USE.
 - GROUND WIRES SHALL BE THINWALLED 1/8" AWG BARE SOLID COPPER UNLESS OTHERWISE NOTED.
 - CONNECTIONS OF ALL GROUND WIRES TO THE GROUNDING SHALL BE EXOTHERMIC 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 90 DEGREES.
 - WHERE GROUND WIRES ARE REQUIRED FROM ANY CONNECTION ABOVE GRADE TO THE GROUND RING, INSTALL WIRE IN 3/4" HEAVY WALL LIQUID TIGHT CONDUIT, AND SECURE TO THE CONDUIT WITH 1/4" DIA. STAINLESS STEEL SCREWS.
 - ALL GROUND WIRES SHALL BE THINWALLED 1/8" AWG BARE SOLID COPPER UNLESS OTHERWISE NOTED. ALL GROUNDING DEVICES SHALL BE U.L. LISTED FOR THEIR INTENDED USE. ALL REQUIRED CONNECTIONS WITHOUT DOWNING LIDS AND EACH INSTALLED WITH INSULATORS. WHEN CONNECTING GROUND BARS (WITHIN TO BOTTOM OF CONDUIT) TO THE GROUND RING, 2.0" ALUMINUM WALLS SHALL BE CALDWELL WELDED TO THE GROUND BAR. AT EACH OPPOSITE END OF CONNECTING SECTOR GROUND BARS, INSTALLED WITHIN THE GROUND BAR AND RUN 1 EA. 1/8" AWG STRANDED COPPER WIRE WITH THIN INSULATION FROM THE BARE GROUND BAR TO THE GROUNDING RING AND CHAINED TO THE RING.
 - GROUNDING DEVICES SHALL BE THINWALLED 1/8" AWG BARE SOLID COPPER UNLESS OTHERWISE NOTED. CONNECTIONS WITH W/UTL PROOF MUST BE W/UTL PROOF OR EQUIVALENT PROTECTIVE MEASURES AND ATTACHED ONLY WITH STAINLESS STEEL HARDWARE.
 - WHERE GROUNDING EQUIPMENT ENCLOSURES, PANELS, FRAMES, AND OTHER METAL APPARATUS, A #6 AWG STRANDED COPPER WIRE WITH THIN W/UTL PROOF METAL 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. FOLDING CALDWELL CONNECTIONS TO IRON-COPPER SURFACES, APPLY ONE COAT OF ANY ANTI-CORROSION PAINT, "ZINC OIL" ONLY OR EQUIVALENT.
 - GROUND RODS SHALL BE COPPER-CLAD STEEL (SP75) SPACED NO LESS THAN 10' ON CENTER.
 - ALL GROUNDING SYSTEM CONDUCTORS AND CONDUITS SHALL BE SECURED UTILIZING ONLY NONMETALLIC NON-CONDUCTIVE W/ 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 GROUNDING SYSTEM IS CONTINUOUS AND THE 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 BE INSTALLED IN A WORKMANLIKE MANNER IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, AND DEFINED IN ITPA-79 AND APPROVED BY AT&T.

- KEY NOTES:**
- LOWER GROUND BAR: EXTEND #2 THINWALLED COPPER WIRE TO LOWER GROUND BAR AND MAKE MECHANICAL LUG CONNECTION.
 - MATCHBOLT GROUND BAR: EXTEND #2 THINWALLED COPPER WIRE FROM BURIED GROUND RING UP TO THE TRICHPATE GROUND BAR AND MAKE AN EXOTHERMIC WELD.
 - GROUND OF INTERNAL GROUNDING: EXTEND #2 THINWALLED COPPER WIRE FROM BURIED GROUND RING TO THE TRICHPATE GROUND BAR AND MAKE AN EXOTHERMIC WELD.
 - GROUNDING: COPPER/CLAD STEEL 5/8" X 10" (10) FEET LONG.
 - SEE BRIDGE SUPPORT/POST GROUNDING: EXTEND #2 THINWALLED COPPER WIRE FROM BURIED GROUND RING TO THE BRIDGE SUPPORT POINTS AND MAKE AN EXOTHERMIC WELD.
 - HWAC GROUNDING: EXTEND #2 THINWALLED COPPER WIRE FROM BURIED GROUND RING TO THE HWAC UNIT AND MAKE A MECHANICAL CONNECTION.
 - UP TO THE GROUND BAR AND MAKE AN EXOTHERMIC WELD AT GROUND RING. ACQUANT MATERIAL.
 - CELL REFERENCE GROUND BAR: EXTEND #2 THINWALLED COPPER WIRE FROM BURIED GROUND RING TO THE CELL REFERENCE GROUND BAR (INSIDE SHELTER) AND MAKE A MECHANICAL CONNECTION.
 - INSIDE SHELTER GROUNDING: EXTEND #2 THINWALLED COPPER WIRE FROM BURIED GROUND RING UP TO THE CELL REFERENCE GROUND BAR (INSIDE SHELTER) AND MAKE A MECHANICAL CONNECTION.
 - ANTENNA GROUNDING: EXTEND #2 THINWALLED COPPER WIRE FROM BURIED GROUND RING TO THE ANTENNA GROUND BAR AND MAKE A MECHANICAL CONNECTION.
 - ANTENNA GROUNDING: EXTEND #2 THINWALLED COPPER WIRE FROM BURIED GROUND RING TO THE ANTENNA GROUND BAR AND MAKE A MECHANICAL CONNECTION.

NOTES



4393 RIVERBOAT ROAD, SUITE #400
TAYLORSVILLE, UTAH 84123



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SALT LAKE CITY, UTAH 84119



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SANDY, UTAH 84070
(801) 463-1020

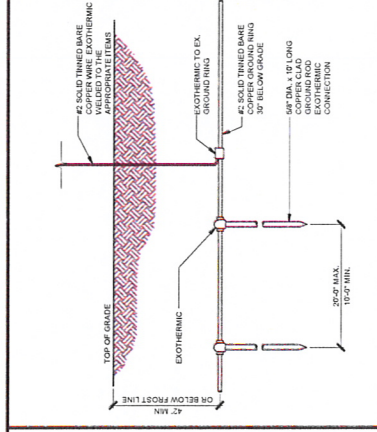
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IT IS A DESIGN DOCUMENT.
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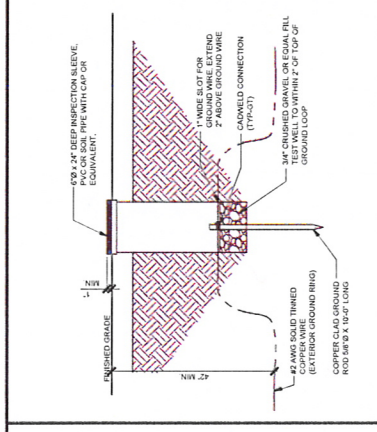
POWDER MOUNTAIN
POWDER MOUNTAIN
EDEN, UT 84310
NSB MONOPOLE

GROUNDING DETAILS

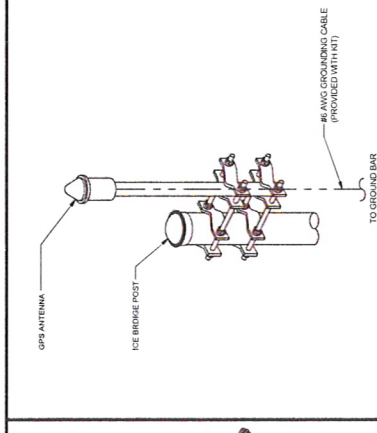
SHEET TITLE
G-2
SHEET NUMBER



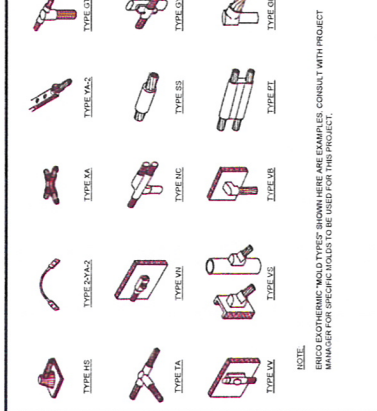
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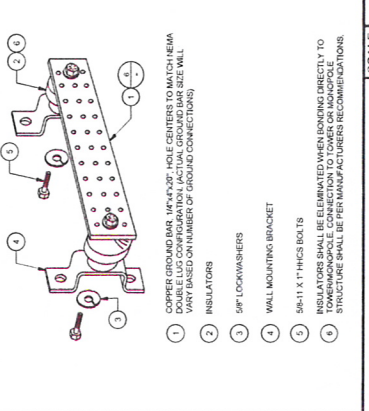
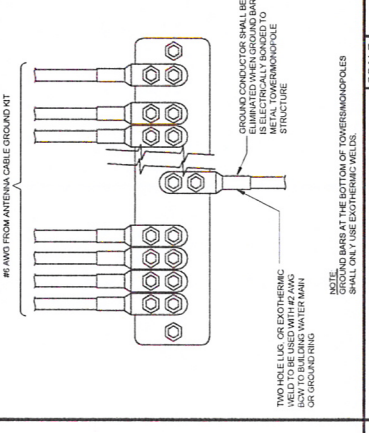
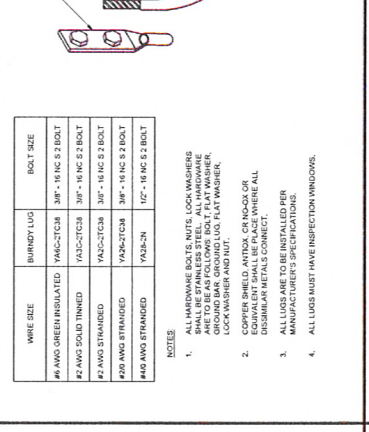
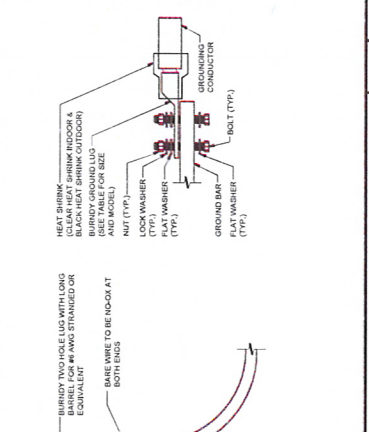
TEST WELL SCALE: N.T.S. 3



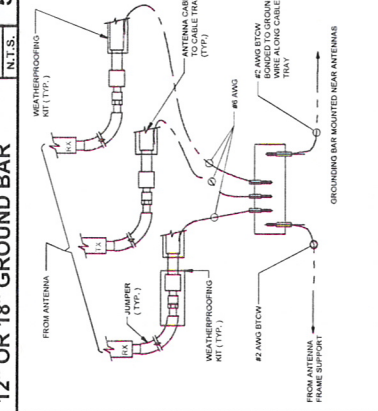
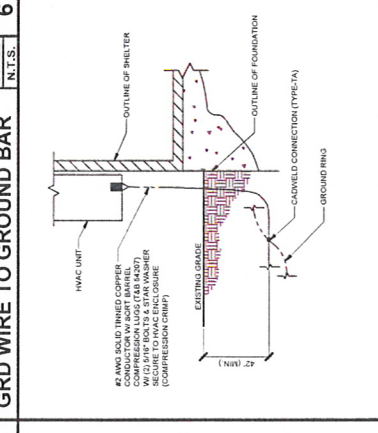
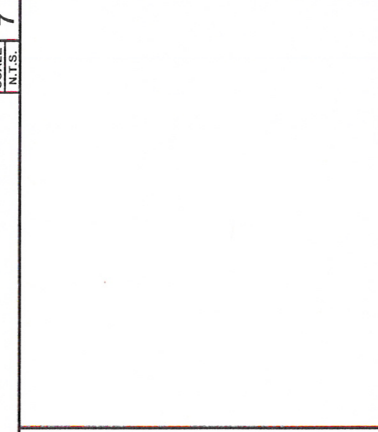
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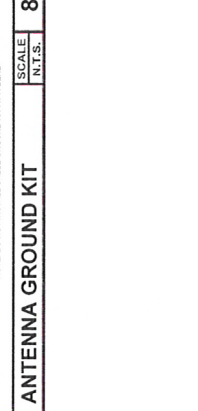
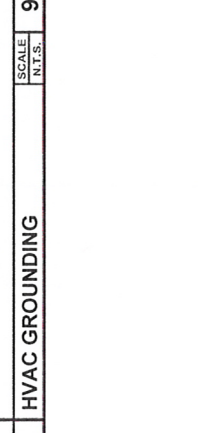
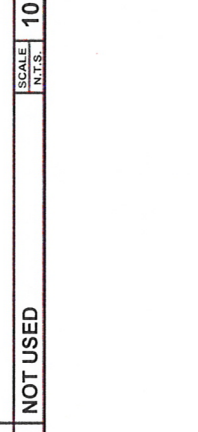
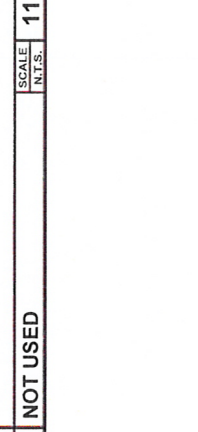
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ANTENNA GROUND KIT SCALE: N.T.S. 8



HVAC GROUNDING SCALE: N.T.S. 9



NOT USED SCALE: N.T.S. 10



NOT USED SCALE: N.T.S. 11

4393 RIVERBOAT ROAD, SUITE #100
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REV	DATE	DESCRIPTION	BY
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3	05/01/00	ISSUED FOR WORK CONSTRUCTION	BOB
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6	05/01/00	ISSUED FOR WORK CONSTRUCTION	BOB
7	05/01/00	ISSUED FOR WORK CONSTRUCTION	BOB

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POWDER MOUNTAIN
POWDER MOUNTAIN
EDEN, UT 84310
NSB MONOPOLE

SHEET TITLE
DETAILS

SHEET NUMBER
RF-1

ALCATEL - LUCENT 9942 RRRH 700

OPERATIONAL BREADTH: 15.5MHz 2 LTE CARRIERS
WEIGHT: 51 LBS
SIZE: 12.7" X 10.8" X 21"

FRONT VIEW
SIDE VIEW
TOP VIEW

MANUFACTURER: **INTEC**
PART #: 3XN1930

NOTE: ANTENNA MOUNTING PIPES NOT INCLUDED IN MOUNTING KIT

RRH STAND-OFF ARM MOUNT

MANUFACTURER: **INTEC**
PART #: 3XN1930

RRH SPECIFICATIONS

ITEM PART NO.	DESCRIPTION	QTY.	WEIGHT
1	RRH	1	51 LBS
2	RRH STAND-OFF ARM MOUNT	1	10 LBS
3	RRH MOUNTING PIPES	2	0.01 LBS
4	RRH MOUNTING BRACKETS	2	0.01 LBS
5	RRH MOUNTING BOLTS	2	0.01 LBS
6	RRH MOUNTING NUTS	2	0.01 LBS
7	RRH MOUNTING WASHERS	2	0.01 LBS
8	RRH MOUNTING LOCKWASHERS	2	0.01 LBS
9	RRH MOUNTING LOCKWASHERS	2	0.01 LBS
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15	RRH MOUNTING LOCKWASHERS	2	0.01 LBS
16	RRH MOUNTING LOCKWASHERS	2	0.01 LBS
17	RRH MOUNTING LOCKWASHERS	2	0.01 LBS
18	RRH MOUNTING LOCKWASHERS	2	0.01 LBS
19	RRH MOUNTING LOCKWASHERS	2	0.01 LBS
20	RRH MOUNTING LOCKWASHERS	2	0.01 LBS

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

MANUFACTURER: **INTEC**
PART #: 3XN1930

ANTENNA & TMA MOUNTING

ANTENNA MOUNTING PIPE
TMA PER PLAN (MOUNTED TO PIPE W/ WIDE CLAMPS)
MOUNTING BRACKET SUPPLIED W/ ANTENNA
ANTENNA PER PLAN
MOUNTING BRACKET SUPPLIED W/ ANTENNA

ANTENNA MOUNT

MANUFACTURER: **INTEC**
PART #: 3XN1930

DIPLERXER SPECIFICATIONS

ANDREW UHX4-105

RADIOME COLOR: WHITE
DIAMETER (nominal): 4"
NET WEIGHT: 165 lbs.
MOUNTING PIPE DIA.: 4.5"

NOTE: STABILIZING ROD SUPPLIED W/ ANTENNA**

FRONT
SIDE

ANTENNA SPECIFICATIONS

KAEIUS TMA2061FV1V1-1

BANDWIDTH: PCS 1800 FULL BAND DUPLX, TWR1 TWA
WITH 169-960 MHz BYPASS
WEIGHT: 19.8 lbs.
RF CONNECTORS: DIN 716 FEMALE (90deg (each))

7.87" x 13.80" x 13.80"

ANTENNA SPECIFICATIONS

KAEIUS DBC2037FV1V1-1

FILTER TYPE: 700000000 MHz
RANGE: 686-2170 MHz
WEIGHT: 7.2 lbs.
RF CONNECTORS: DIN 716 FEMALE

8.59" x 1.63" x 3.97"

TMA SPECIFICATIONS

RAYCAP DC6-48-60-18-3F

NUMBER OF RADIOS PROTECTED: 6
SUPPRESSOR CONNECTION METHOD: 4X4X4 ALUMINUM
ENVIRONMENTAL RATING: IP 65, 3N 239RC
WEIGHT: 32.8 LBS (14.95 N)

2.6" x 11.1" x 11.1"

MICROWAVE SPECIFICATIONS

KAEIUS TMA2061FV1V1-1

BANDWIDTH: PCS 1800 FULL BAND DUPLX, TWR1 TWA
WITH 169-960 MHz BYPASS
WEIGHT: 19.8 lbs.
RF CONNECTORS: DIN 716 FEMALE (90deg (each))

7.87" x 13.80" x 13.80"

ANTENNA SPECIFICATIONS

KAEIUS DBC2037FV1V1-1

FILTER TYPE: 700000000 MHz
RANGE: 686-2170 MHz
WEIGHT: 7.2 lbs.
RF CONNECTORS: DIN 716 FEMALE

8.59" x 1.63" x 3.97"

SURGE SUPPRESSOR

RAYCAP DC6-48-60-18-3F

NUMBER OF RADIOS PROTECTED: 6
SUPPRESSOR CONNECTION METHOD: 4X4X4 ALUMINUM
ENVIRONMENTAL RATING: IP 65, 3N 239RC
WEIGHT: 32.8 LBS (14.95 N)

2.6" x 11.1" x 11.1"

SCALE N.T.S. 10



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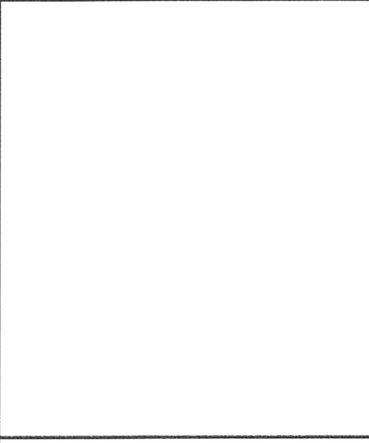
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REV	DATE	DESCRIPTION	BY

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POWDER MOUNTAIN
POWDER MOUNTAIN
EDEN, UT 84310
NSB MONOPOLE

SHEET TITLE
DETAILS

SHEET NUMBER
RF-1.1



ANDREW SBNH-1D6565C
RADOME MATERIAL: PVC, UV RESISTANT
RADOME COLOR: LIGHT GRAY
DIMENSIONS IN INCH: 98.4" x 11.9" x 7.1"
WEIGHT: 10.5 LBS
PRE-INSTALLED BRACKETS: 60.1 LB
CONNECTOR: 4.4 7/16 INCH FEMALE

ANTENNA SPECIFICATIONS	SCALE N.T.S.	1	NOT USED	SCALE N.T.S.	2	NOT USED	SCALE N.T.S.	3	NOT USED	SCALE N.T.S.	4
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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