



Staff Report for Administrative Approval

Weber County Planning Division

Synopsis

Application Information

Application Request: Consideration and action on an amendment to a conditional use permit (CUP 2013-13) for a public utility substation (cellular site) to install one four foot microwave antenna.

Agenda Date: Tuesday, July 29, 2014

Applicant: Matt Bradford, JRA inc. (agent)

File Number: CUP 2014-15

Property Information

Approximate Address: Hidden Lake Sky Lodge, Powder Mountain

Project Area: 80 acres

Zoning: Commercial Valley Resort Recreation Zone (CVR-1)

Existing Land Use: Ski Resort, public utility substation

Proposed Land Use: Ski Resort, public utility substation

Parcel ID: 23-012-0054

Township, Range, Section: T7N, R2E, Section 6

Adjacent Land Use

North:	Ski Mountain	South:	Ski Mountain
East:	Ski Mountain	West:	Ski Mountain

Staff Information

Report Presenter: Ben Hatfield
bhatfield@co.weber.ut.us
801-399-8767

Report Reviewer: JG

Applicable Codes

- Weber County Land Use Code Title 104 Chapter 11 (CVR-1 Zone)
- Weber County Land Use Code Title 108 Chapter 4 (Conditional Uses)
- Weber County Land Use Code Title 108 Chapter 10 (Public Buildings and Public Utility Substations and Structures)
- Weber County Land Use Code Title 108 Chapter 7 (Supplementary and Qualifying Regulations)
- Weber County Land Use Code Title 108 Chapter 1 (Design Review)
- Weber County Land Use Code Title 108 Chapter 2 (Ogden Valley Architectural, Landscape and Screening Standards)

Type of Decision

Administrative Decisions: When the Planning Director is acting as the land use authority, he is acting in an administrative capacity and has much less discretion. Examples of administrative applications are design reviews, flag lots, and subdivisions. Administrative applications must be approved if the application demonstrates compliance with the approval criteria.

Background

The applicant is requesting administrative approval of a site plan amendment to a conditional use permit (CUP 2013-13) for a public utility substation (cellular site). The CVR-1 Zone allows a "public utility substation" as a conditional use. This existing cellular site is on a large ski resort parcel with the Sky Lodge. It consists of adding a four foot diameter microwave antenna at the 62 foot height portion of the tower and upgrading equipment and cables. A set of site plans has been included as an exhibit.

Summary of Considerations

- Does the proposed use meet the requirements of applicable County Codes?
- Are there any potentially detrimental effects that need to be mitigated by imposing conditions of approval, and if so, what are the appropriate conditions?

In order for a conditional use permit to be approved it must meet the requirements listed under "Criteria for Issuance of Conditional Use Permit." The Planning Commission needs to determine if the proposed public utility substation meets these requirements.

Section 108-4-4 Criteria for Issuance of Conditional Use Permit

Conditional uses shall be approved on a case-by-case basis. The Planning Commission shall not authorize a Conditional Use Permit unless evidence is presented to establish:

1. Reasonably anticipated detrimental effects of a proposed conditional use can be substantially mitigated by the proposal or by the imposition of reasonable conditions to achieve compliance with applicable standards. Examples of potential negative impacts are odor, vibration, light, dust, smoke, or noise.
2. That the proposed use will comply with the regulations and conditions specified in the Land Use Code and other applicable agency standards for such use.

After reviewing this conditional use request staff has determined that the criteria listed above have been met in the following ways:

1. The proposed microwave antenna will not produce any of the detrimental effects listed previously.
2. The proposed upgrade of equipment does comply with the applicable requirements within the Land Use Code.

Conformance to the General Plan

As a conditional use, this operation is allowed in the CVR-1 Zone. With the establishment of appropriate conditions as determined within this review, this proposal will not negatively impact any of the goals and policies of the General Plan.

Conditions of Approval

- Requirements of the Weber County Engineering Division
- Requirements of the Weber County Building Inspection Division
- Requirements of the Weber County Planning Division

Staff Administrative Approval

Based upon the findings listed above, administrative approval for CUP 2014-15 (amendment to CUP 2013-13), adding a four foot microwave antenna and some electrical equipment on a cellular tower and facilities at Hidden Lake, Powder Mountain is hereby approved this the 6th day of August, 2014.



Sean Wilkinson
Weber County Planning Director

Exhibits

- A. Application
- B. Site Plan

Weber County Conditional Use Permit Application

Application submittals will be accepted by appointment only. (801) 399-8791. 2380 Washington Blvd. Suite 240, Ogden, UT 84401

Date Submitted / Completed	Fees (Office Use)	Receipt Number (Office Use) 3134	File Number (Office Use) CUP 2014-15
----------------------------	-------------------	-------------------------------------	---

Property Owner Contact Information

Name of Property Owner(s) Summit Mountain Holding Group, L.L.C.		Mailing Address of Property Owner(s) 3632 N. Wolf Creek Drive Eden, Utah 84310	
Phone 801-675-8796	Fax		
Email Address (required) paul@summit.co		Preferred Method of Written Correspondence <input type="checkbox"/> Email <input type="checkbox"/> Fax <input type="checkbox"/> Mail	

Authorized Representative Contact Information

Name of Person Authorized to Represent the Property Owner(s) Matt Bradford		Mailing Address of Authorized Person Jeffrey Rome & Associates 131 Innovation Drive, Suite 100, Irvine, CA 92617	
Phone 949-760-3929	Fax		
Email Address mattb@jrainsc.net		Preferred Method of Written Correspondence <input type="checkbox"/> Email <input type="checkbox"/> Fax <input type="checkbox"/> Mail	

Property Information

Project Name Powder Mtn.	Total Acreage	Current Zoning
Approximate Address Powder Mtn. Utah HWY 158 Eden UT 84310	Land Serial Number(s)	
Proposed Use Existing Cell Tower		

Project Narrative

Install new 4' Microwave Antenna at a 62' Rad Center
Install New (1) run of EW-90 Waveguide Cable

Basis for Issuance of Conditional Use Permit

Reasonably anticipated detrimental effects of a proposed conditional use can be substantially mitigated by the proposal or by the imposition of reasonable conditions to achieve compliance with applicable standards. Examples of potential negative impacts are odor, vibration, light, dust, smoke, or noise.

N/A

That the proposed use will comply with the regulations and conditions specified in the Zoning Ordinance and other applicable agency standards for such use.

AT&T will comply with all conditions required by the Weber County zoning ordinances and all other applicable agencies.

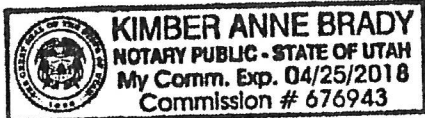
Property Owner Affidavit

I (We), Paul Strange, depose and say that I (we) am (are) the owner(s) of the property identified in this application and that the statements herein contained, the information provided in the attached plans and other exhibits are in all respects true and correct to the best of my (our) knowledge.

[Signature]
(Property Owner)

(Property Owner)

Subscribed and sworn to me this 23 day of June, 20 14.



KOAR
(Notary)

Authorized Representative Affidavit

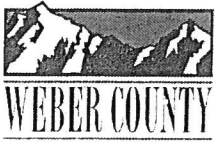
I (We), _____, the owner(s) of the real property described in the attached application, do authorized as my (our) representative(s), _____, to represent me (us) regarding the attached application and to appear on my (our) behalf before any administrative or legislative body in the County considering this application and to act in all respects as our agent in matters pertaining to the attached application.

(Property Owner)

(Property Owner)

Dated this _____ day of _____, 20 _____, personally appeared before me _____, the signer(s) of the Representative Authorization Affidavit who duly acknowledged to me that they executed the same.

(Notary)



WEBER COUNTY CMS RECEIPTING SYSTEM
OFFICIAL RECEIPT

*** Save this receipt for your records ***

Date: 26-JUN-2014

Receipt Nbr: 3134

ID# 21549

Employee / Department: ANGELA - 4181 - PLANNING
Monies Received From: JEFFREY ROME & ASSOC.
Template: PUBLIC WORKS
Description: CUP

The following amount of money has been received and allocated to the various accounts listed below:

Total Currency	\$	_____	.00
Total Coin	\$	_____	.00
Total Debit/Credit Card	\$	_____	.00
Pre-deposit	\$	_____	.00
Total Checks	\$	_____	125.00
Grand Total	\$	=====	125.00

Account Number	Account Name	Comments	Total
2014-08-4181-3419-0550-000	ZONING FEES		125.00
TOTAL \$			125.00

Check Amounts

125.00

Total Checks: 1

Total Check Amounts: \$ 125.00

*** SAVE THIS RECEIPT FOR YOUR RECORDS ***



at&t

POWDER MOUNTAIN
 UTAH HIGHWAY 158
 EDEN, UTAH 84310
 FA# 12836251
 NOVA PROJECT ID: WES-MW-94775

SPECIAL INSPECTIONS

1	CONCRETE	131	WATER-ON-CONCRETE AND UNDERSLAB PIPING
2	CONCRETE, REINFORCED	132	KEYWAY PUMP FOUNDATION EXAMINATION (REFER TO 131)
3	ALL STRUCTURAL WELDING	133	INSPECT 50% COMPLETION TEST RESULTS, BOTH OF
4	WELDING	134	INSPECT 50% COMPLETION TEST RESULTS, EXPANSION
5	WELDING	135	INSPECT 50% COMPLETION TEST RESULTS, EXPANSION
6	STEEL STRUCTURE	136	WELD EXAMINATION, 50% COMPLETION TEST RESULTS
7	STEEL STRUCTURE	137	WELD EXAMINATION, 50% COMPLETION TEST RESULTS
8	REINFORCED CONCRETE	138	WATER-ON-CONCRETE AND UNDERSLAB PIPING
9	REINFORCED CONCRETE	139	WATER-ON-CONCRETE AND UNDERSLAB PIPING
10	REINFORCED CONCRETE	140	WATER-ON-CONCRETE AND UNDERSLAB PIPING
11	REINFORCED CONCRETE	141	WATER-ON-CONCRETE AND UNDERSLAB PIPING
12	REINFORCED CONCRETE	142	WATER-ON-CONCRETE AND UNDERSLAB PIPING

VICINITY MAP



CONSULTANT TEAM

CLIENTS REPRESENTATIVE:
 WASTE NETWORK SOLUTIONS
 1380 CENTRAL AVENUE, SUITE 300
 CHICO, CALIFORNIA 95710
 PHONE: (530) 338-5200

ARCHITECT:
 JEFFREY ROME & ASSOCIATES
 131 INNOVATION DRIVE
 HANF, CALIFORNIA 92617
 PHONE: (949) 762-2999
 FAX: (949) 762-2991

SITE ACQUISITION:
 JEFFREY ROME & ASSOCIATES
 131 INNOVATION DRIVE
 HANF, CALIFORNIA 92617
 PHONE: (949) 762-2999
 FAX: (949) 762-2991

DEVELOPMENT SUMMARY

APPLICANT: A&T WIRELESS
 188 WASHINGTON DRIVE, WEST SUITE 400
 DUBLINO, CALIFORNIA 94568

LAND OWNER: SQUIRREL MOUNTAIN HOLDING GROUP, LLC
 1380 CENTRAL AVENUE, SUITE 300
 CHICO, CALIFORNIA 95710

OTHER OWNERS: A&T WIRELESS

OTHER ON-SITE TELECOM FACILITIES: YES

ASSESSORS PARCEL NUMBER: 18-001-0029

LATITUDE: 41° 27' 19.3" N

LONGITUDE: -117° 24' 48.8" W

LAND TYPE: M-D-83

GROUND ELEVATION: 8507.9' ASL

EXISTING ZONING: C (COMMERCIAL)

PROPOSED PRODUCT AREA: NO INCREASE IN SF

PROPOSED TYPE OF CONSTRUCTION: NEW W-8

EXISTING OCCUPANCY: U-2

PROPOSED OCCUPANCY: U-2

JURISDICTION: COUNTY OF WEBER

SHEET INDEX

T-1	TITLE SHEET
T-2	DEFINITIONS AND NOTES
A-0	OVERALL SITE PLAN
A-1	ENLARGED SITE AND EQUIPMENT PLAN
A-2	EXISTING & PROPOSED ELEVATIONS
A-3	ANTENNA STRUCTURES
A-3.1	ANTENNA WOUNDING DETAILS
A-3.2	ANTENNA WOUNDING DETAILS
A-4	FOUNDATION DETAILS
A-5	FOUNDATION DETAILS
A-6	FOUNDATION DETAILS

APPLICABLE CODES

ALL WORK SHALL COMPLY WITH THE FOLLOWING APPLICABLE CODES:

- IBC 2012 IBCM BUILDING CODE
- IBC 2012 IBCM STRUCTURAL CODE
- IBC 2012 IBCM PLUMBING CODE
- IBC 2012 IBCM ELECTRICAL CODE
- IBC 2012 IBCM MECHANICAL CODE
- IBC 2012 IBCM FIRE CODE
- IBC 2012 IBCM ENERGY CODE
- IBC 2012 IBCM ACCESSIBILITY CODE
- IBC 2012 IBCM SAFETY CODE

IN THE EVENT OF CONFLICT, THE MOST RESTRICTIVE CODE SHALL PREVAIL.

PROJECT DESCRIPTION

A&T WIRELESS PROPOSES TO UPGRADE AND EXTEND EXISTING WIRELESS COMMUNICATIONS FACILITIES AT THE ABOVE LOCATION. THE PROPOSED FACILITIES WILL INCLUDE:

- INSTALL NEW 4-1/2" MICROWAVE ANTENNA AT A 62'-0" RAD CENTER
- INSTALL NEW 1/2" NON-IP 80 MICROWAVE CABLE

ACCESSIBILITY DISCLAIMER

THIS PROJECT IS AN UNIMPROVED FACILITY FOR TELECOMMUNICATIONS FACILITY AND IS EXEMPT FROM DISABLED ACCESS REQUIREMENTS.

SCALE

THE DRAWING SCALES SHOWN A THIS SET REPRESENT THE COMPLETE SCALE ONLY. SCALES FOR EACH SHEET IN THIS SET IS SHOWN ON THE DRAWING SET.



Jeffrey Rome | ASSOCIATES
 Architecture | Interiors
 131 Innovation Drive, Suite 100
 Hanf, CA 92617
 Tel: 949.762.2999 | Fax: 949.762.2991

PROPRIETARY INFORMATION
 THE INFORMATION CONTAINED HEREIN IS THE PROPERTY OF JEFFREY ROME & ASSOCIATES. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREIN. ANY REUSE OR REPRODUCTION OF THIS INFORMATION WITHOUT THE WRITTEN PERMISSION OF JEFFREY ROME & ASSOCIATES IS PROHIBITED.



APPROVALS	DATE
ANITA KUN	05/28/14
BOB COSS	06/04/14
MARK AMERHOFER	06/04/14
JOHN COSS	06/04/14

TITLE: CDS WITH STRUCTURALS	DATE: 05/28/14
DESIGNER: HUNTER	DATE: 05/28/14
CONSTRUCTION:	DATE:
SITE ACQUISITION:	DATE:

PROJECT NAME: MICROWAVE UPGRADE
SITE NAME: POWDER MOUNTAIN
FA NUMBER: 12836251
DRAWING DATE: 05/28/14
DATE OF REVIEW (P-1481): 06/24/14
DATE OF REVIEW (P-1482): 06/24/14

TITLE SHEET

T-1

GENERAL SPECIFICATIONS

- 1 THE BEST PORTION OF THE AMERICAN NOTIFICATION OF ARCHITECTS' DECISION...
2 THIS SHALL BE AN INDICATION OF THE TELECOMMUNICATIONS CABLE AND...
3 THE CONSTRUCTION OF THE AMERICAN NOTIFICATION OF ARCHITECTS' DECISION...
4 THE CONSTRUCTION OF THE AMERICAN NOTIFICATION OF ARCHITECTS' DECISION...
5 THE CONSTRUCTION OF THE AMERICAN NOTIFICATION OF ARCHITECTS' DECISION...

PAINTING NOTES & SPECIFICATIONS

- 1 ALL PAINT SHOULD BE PAINTED BY EITHER MEANS UNLESS SPECIFIED...
2 ALL PAINT SHOULD BE PAINTED BY EITHER MEANS UNLESS SPECIFIED...
3 ALL PAINT SHOULD BE PAINTED BY EITHER MEANS UNLESS SPECIFIED...

Table with 3 columns: PAINTING NOTES, PAINTING SPECIFICATIONS, and PAINTING NOTES. Contains specific details for painting applications.

STRUCTURAL SPECIFICATIONS

- 1 ALL STRUCTURE SHALL BE CONSTRUCTED OF STEEL UNLESS OTHERWISE SPECIFIED...
2 ALL STRUCTURE SHALL BE CONSTRUCTED OF STEEL UNLESS OTHERWISE SPECIFIED...
3 ALL STRUCTURE SHALL BE CONSTRUCTED OF STEEL UNLESS OTHERWISE SPECIFIED...
4 ALL STRUCTURE SHALL BE CONSTRUCTED OF STEEL UNLESS OTHERWISE SPECIFIED...

Mastec Network Solutions logo and contact information for Jeffrey Rome Associates, including address and phone numbers.

PROJECT INFORMATION section containing project name (POWDER MOUNTAIN), location (POWDER MOUNTAIN, CO), and specifications and notes (SPECIFICATIONS AND NOTES).

T-2

1 OVERALL SITE PLAN KEYNOTES



SCALE: 1" = 200'

1



Jeffrey Rome | ASSOCIATES
 Architecture | Interiors | Interiors
 1331 Innovation Drive, Suite 100
 Livermore, CA 94551
 (925) 462-3200

PROPRIETARY INFORMATION
 THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION OF MASTEC NETWORK SOLUTIONS. ANY USE WITHOUT RELATES TO A KEYNOTE IS STRICTLY PROHIBITED.



STAMP
 PREPARED: GEA



APPROVALS
 AUTH: JRM 05/28/14
 DES: JRM
 DATE: 05/28/14

DATE: 05/28/14
 DATE: 05/28/14
 DATE: 05/28/14

DATE: 05/28/14
 DATE: 05/28/14
 DATE: 05/28/14

PROJECT NAME: MICROWAVE UPGRADE
 SITE NAME: POWDER MOUNTAIN
 FA NUMBER: 12836251

DATE: 05/28/14
 DATE: 05/28/14
 DATE: 05/28/14

DATE: 05/28/14
 DATE: 05/28/14
 DATE: 05/28/14

A-0

OVERALL SITE PLAN

OVERALL SITE PLAN KENNOTS

1. AIR TOWER AND MOUNTAIN MICROWAVE ANTENNA SITE PLAN A-1.1



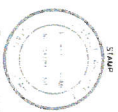
ENLARGED SITE PLAN

SCALE: 1" = 30'



Jeffrey Rome | ASSOCIATES
 Architecture | Interiors | Interiors
 133 Innovation Drive, Suite 100
 Irvine, California 92617
 949.259.3931 | www.jrassoc.com

PROPRIETARY INFORMATION
 THIS DRAWING IS THE PROPERTY OF JEFFREY ROME ASSOCIATES AND IS NOT TO BE REPRODUCED, COPIED, OR DISTRIBUTED WITHOUT THE WRITTEN PERMISSION OF JEFFREY ROME ASSOCIATES.



PROJECT NO.
PROJECT NAME
DATE

PROJECT NAME
SITE NAME
TA NUMBER
TA NUMBER
CONTRACT NO.
DATE

PROJECT NAME
SITE NAME
TA NUMBER
TA NUMBER
CONTRACT NO.
DATE

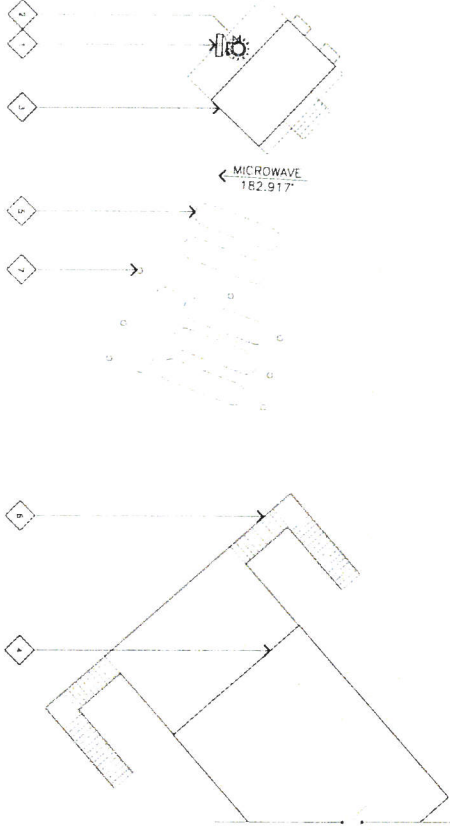
PROJECT NAME
SITE NAME
TA NUMBER
TA NUMBER
CONTRACT NO.
DATE

OVERALL SITE PLAN

A-1

ENLARGED SITE PLAN KENNOTES

- 1 (N) ANTENNA
- 2 (U) MOUNT
- 3 (M) MOUNTING BRACKET
- 4 (S) SURFACE MOUNT
- 5 (E) STAKE
- 6 (B) BRACKET
- 7 (C) CABLE
- 8 (A) ANTENNA
- 9 (M) MOUNTING BRACKET
- 10 (S) SURFACE MOUNT
- 11 (E) STAKE
- 12 (B) BRACKET
- 13 (C) CABLE



ENLARGED SITE PLAN

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

0' 3" 6" 12"

2

EQUIPMENT PLAN

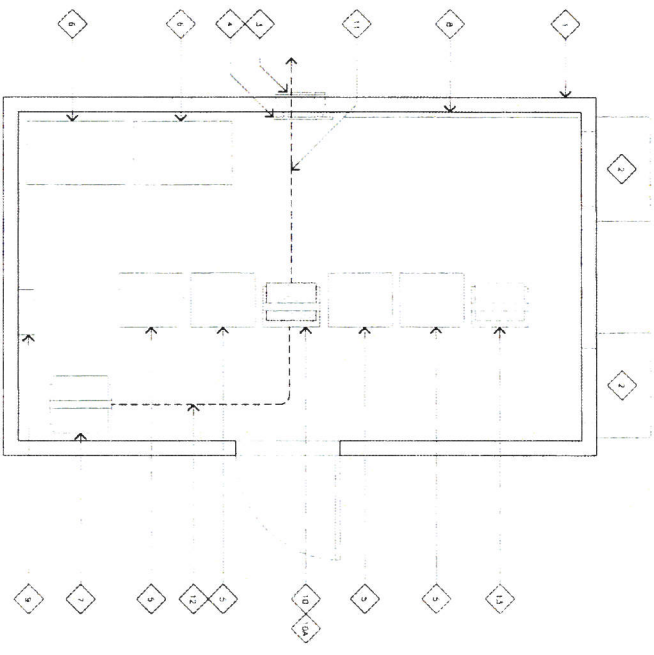
SCALE: 1/2" = 1'-0"

0' 1" 2"

1

EQUIPMENT PLAN KENNOTES

- 1 (E) ANTENNA
- 2 (M) MOUNTING BRACKET
- 3 (S) SURFACE MOUNT
- 4 (E) STAKE
- 5 (B) BRACKET
- 6 (C) CABLE
- 7 (A) ANTENNA
- 8 (M) MOUNTING BRACKET
- 9 (S) SURFACE MOUNT
- 10 (E) STAKE
- 11 (B) BRACKET
- 12 (C) CABLE



GENERAL KENNOTES

1. REFER TO ALL OTHER GENERAL KENNOTES FOR COMPLETE INFORMATION.

A-1.1

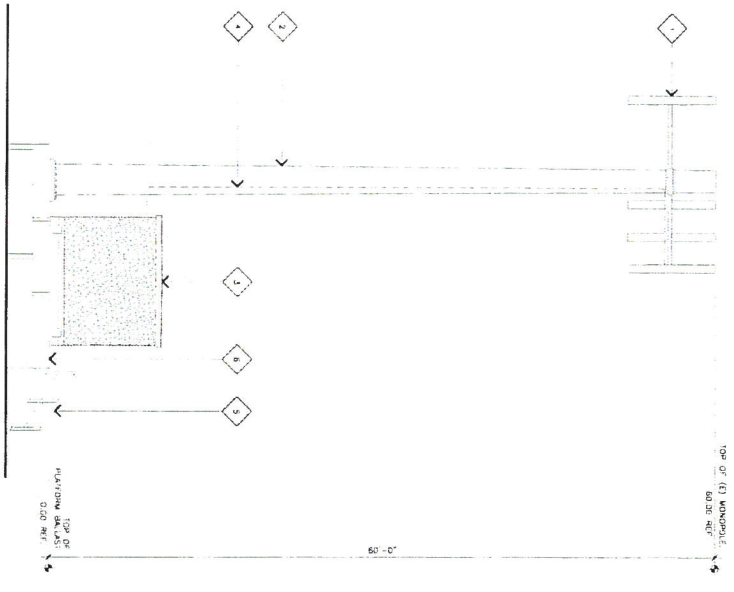
ENLARGED SITE AND EQUIPMENT PLAN

Mastec
Network Solutions

APPENDIX A		
AREA NO.	DATE	DATE
SUB. DES.	DATE	DATE
WORK DESCRIPTION	DATE	DATE
ISSUE NO.	DATE	DATE
ISSUE DESCRIPTION	DATE	DATE
ISSUE NO.	DATE	DATE
ISSUE DESCRIPTION	DATE	DATE
DATE	DATE	DATE
DATE	DATE	DATE
05/28/14	05/28/14	05/28/14
128359251	128359251	128359251
05/28/14	05/28/14	05/28/14
128359251	128359251	128359251
05/28/14	05/28/14	05/28/14
128359251	128359251	128359251
05/28/14	05/28/14	05/28/14
128359251	128359251	128359251

EXISTING ELEVATION KEYNOTES

- 1 (E) A&A PANEL ANTENNAS MOUNTED TO (E) WINDMILL
- 2 (E) WINDMILL
- 3 (E) A&A EQUIPMENT SHELTER
- 4 (E) A&A POWER CABLE RINGS MOUNTED WITHIN SHELTER
- 5 (E) STAIRS
- 6 (E) PATIOWAY

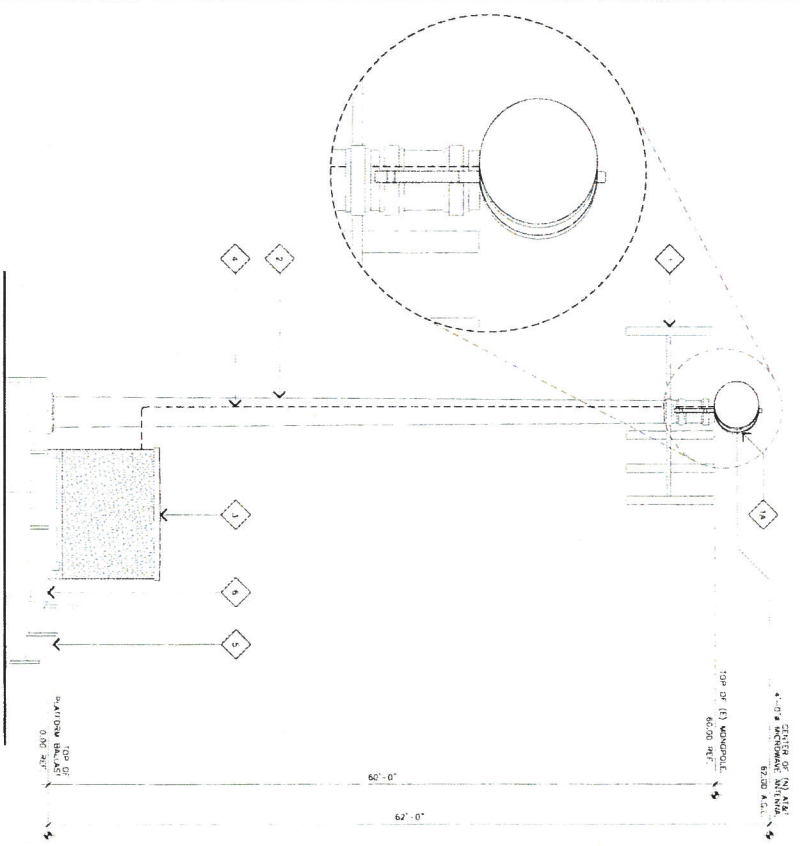


EXISTING SOUTHEAST ELEVATION

SCALE 3/16"=1'-0" 0 3 6

PROPOSED ELEVATION KEYNOTES

- 1 (E) A&A PANEL ANTENNAS MOUNTED TO (E) WINDMILL
- 2 (E) WINDMILL
- 3 (E) A&A EQUIPMENT SHELTER
- 4 (E) A&A POWER CABLE RINGS MOUNTED WITHIN SHELTER
- 5 (E) STAIRS
- 6 (E) PATIOWAY



PROPOSED SOUTHEAST ELEVATION

SCALE 3/16"=1'-0" 0 3 6



Jeffrey Romo ASSOCIATES
 Architectural / Telecommunications
 111 Innovation Drive, Suite 100
 Irvine, California 92617
 P: (949) 261-1200 F: (949) 261-2920

PROPRIETARY INFORMATION
 THE INFORMATION CONTAINED HEREIN IS THE PROPERTY OF MASTEC, AND IS NOT TO BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, WITHOUT THE WRITTEN PERMISSION OF MASTEC.



Mastec
 Network Solutions

APPROVALS

ARCH. JRM	DATE	05/29/14
DRG. CSR	DATE	06/02/14
WORK APPROVAL	DATE	
ISSUE DATE	DATE	

DATE: 05/29/14
 PROJECT NAME: MICROWAVE UPGRADE
 SITE NAME: POWDER MOUNTAIN
 PROJECT NUMBER: 12836251

PROJECT NAME: MICROWAVE UPGRADE
SITE NAME: POWDER MOUNTAIN
PROJECT NUMBER: 12836251
DRAWING DATES: 05/29/14, 06/02/14
DATE PLOTTED: 06/02/14
SCALE: 3/16"=1'-0"

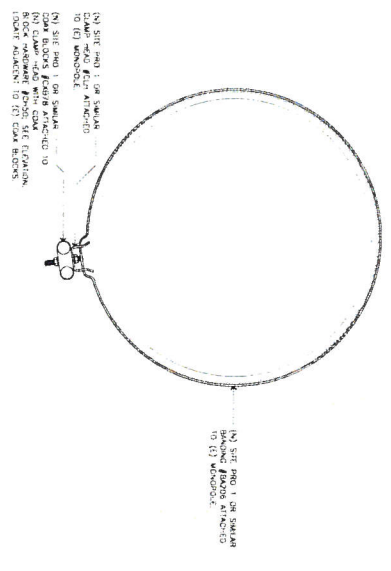
A-2

PARTS LIST

QTY	DESCRIPTION	UNIT
1	CL-1 COAX HEAD	IN
1	CS-1 COAX RIBBON	IN
1	CS-2 COAX RIBBON	IN
1	CS-3 COAX RIBBON	IN
1	CS-4 COAX RIBBON	IN
1	CS-5 COAX RIBBON	IN
1	CS-6 COAX RIBBON	IN
1	CS-7 COAX RIBBON	IN
1	CS-8 COAX RIBBON	IN
1	CS-9 COAX RIBBON	IN
1	CS-10 COAX RIBBON	IN
1	CS-11 COAX RIBBON	IN
1	CS-12 COAX RIBBON	IN
1	CS-13 COAX RIBBON	IN
1	CS-14 COAX RIBBON	IN
1	CS-15 COAX RIBBON	IN
1	CS-16 COAX RIBBON	IN
1	CS-17 COAX RIBBON	IN
1	CS-18 COAX RIBBON	IN
1	CS-19 COAX RIBBON	IN
1	CS-20 COAX RIBBON	IN
1	CS-21 COAX RIBBON	IN
1	CS-22 COAX RIBBON	IN
1	CS-23 COAX RIBBON	IN
1	CS-24 COAX RIBBON	IN
1	CS-25 COAX RIBBON	IN
1	CS-26 COAX RIBBON	IN
1	CS-27 COAX RIBBON	IN
1	CS-28 COAX RIBBON	IN
1	CS-29 COAX RIBBON	IN
1	CS-30 COAX RIBBON	IN
1	CS-31 COAX RIBBON	IN
1	CS-32 COAX RIBBON	IN
1	CS-33 COAX RIBBON	IN
1	CS-34 COAX RIBBON	IN
1	CS-35 COAX RIBBON	IN
1	CS-36 COAX RIBBON	IN
1	CS-37 COAX RIBBON	IN
1	CS-38 COAX RIBBON	IN
1	CS-39 COAX RIBBON	IN
1	CS-40 COAX RIBBON	IN
1	CS-41 COAX RIBBON	IN
1	CS-42 COAX RIBBON	IN
1	CS-43 COAX RIBBON	IN
1	CS-44 COAX RIBBON	IN
1	CS-45 COAX RIBBON	IN
1	CS-46 COAX RIBBON	IN
1	CS-47 COAX RIBBON	IN
1	CS-48 COAX RIBBON	IN
1	CS-49 COAX RIBBON	IN
1	CS-50 COAX RIBBON	IN
1	CS-51 COAX RIBBON	IN
1	CS-52 COAX RIBBON	IN
1	CS-53 COAX RIBBON	IN
1	CS-54 COAX RIBBON	IN
1	CS-55 COAX RIBBON	IN
1	CS-56 COAX RIBBON	IN
1	CS-57 COAX RIBBON	IN
1	CS-58 COAX RIBBON	IN
1	CS-59 COAX RIBBON	IN
1	CS-60 COAX RIBBON	IN
1	CS-61 COAX RIBBON	IN
1	CS-62 COAX RIBBON	IN
1	CS-63 COAX RIBBON	IN
1	CS-64 COAX RIBBON	IN
1	CS-65 COAX RIBBON	IN
1	CS-66 COAX RIBBON	IN
1	CS-67 COAX RIBBON	IN
1	CS-68 COAX RIBBON	IN
1	CS-69 COAX RIBBON	IN
1	CS-70 COAX RIBBON	IN
1	CS-71 COAX RIBBON	IN
1	CS-72 COAX RIBBON	IN
1	CS-73 COAX RIBBON	IN
1	CS-74 COAX RIBBON	IN
1	CS-75 COAX RIBBON	IN
1	CS-76 COAX RIBBON	IN
1	CS-77 COAX RIBBON	IN
1	CS-78 COAX RIBBON	IN
1	CS-79 COAX RIBBON	IN
1	CS-80 COAX RIBBON	IN
1	CS-81 COAX RIBBON	IN
1	CS-82 COAX RIBBON	IN
1	CS-83 COAX RIBBON	IN
1	CS-84 COAX RIBBON	IN
1	CS-85 COAX RIBBON	IN
1	CS-86 COAX RIBBON	IN
1	CS-87 COAX RIBBON	IN
1	CS-88 COAX RIBBON	IN
1	CS-89 COAX RIBBON	IN
1	CS-90 COAX RIBBON	IN
1	CS-91 COAX RIBBON	IN
1	CS-92 COAX RIBBON	IN
1	CS-93 COAX RIBBON	IN
1	CS-94 COAX RIBBON	IN
1	CS-95 COAX RIBBON	IN
1	CS-96 COAX RIBBON	IN
1	CS-97 COAX RIBBON	IN
1	CS-98 COAX RIBBON	IN
1	CS-99 COAX RIBBON	IN
1	CS-100 COAX RIBBON	IN



ELEVATION



PLAN VIEW

SITE PRO 1 COAX SUPPORT KIT

SCALE: NONE

2

NOT USED

SCALE: NONE

1



Jeffrey Rome | ASSOCIATES
 architectural & telecommunications
 111 Innovation Drive, Suite 100
 Irvine, California 92617
 (949) 266-2929 fax (949) 266-2931

PROPRIETARY INFORMATION
 This drawing is the property of Jeffrey Rome Associates and is not to be reproduced, copied, or used in any way without the written consent of Jeffrey Rome Associates. This drawing is intended for the use of the client and is not to be used for any other purpose. Jeffrey Rome Associates is not responsible for any errors or omissions in this drawing.



Mastec
 Network Solutions

PROJECT NAME: MICROWAVE UPGRADE
 SITE NAME: POWDER MOUNTAIN
 FA NUMBER: 12836251
 DRAWING DATES: 08/29/14, 09/04/14, 09/24/14
 SHEET TITLE: DETAILS

A-3.1

Product Specifications



VHPX4-11W
1.2 m 1.4 W Volume High Performance Low Profile Antenna



General Specifications

Antenna Type: VHPX4 - Volume High Performance Low Profile Antenna
 Diameter: nominal: 1.2 m 1.4 W

Mechanical Specifications

Five Azimuth Adjustment: ±15°
 Fine Azimuth Adjustment: ±1.5°
 Mounting Pipe Diameter: 11.5 mm 1.15 in
 Net Weight: 40 kg 1 88 lb
 Side Struts: Inboard 1 inboard
 Side Struts: Outboard 2 inboard
 Wind Velocity Operation: 200 km/h 1 124 mph
 Wind Velocity Survival Rating: 250 km/h 1 155 mph

Wind Forces At Wind Velocity Survival Rating

Max Force (FA): 3322 N 1 1197 lbf
 Side Force (FS): 2658 N 1 593 lbf
 Landing Moment (M): 2370 Nm
 Weight with 1/2 in (12 mm) Rods for Zeg with 1/2 in (12 mm) Rods for Zeg without Rod: 75 kg 1 165 lb
 Zeg with 1/2 in (12 mm) Rods for Zeg without Rod: 310 kg 1 12 in 210 kg 1 8 in

ANTENNA SPECIFICATIONS

SCALE: NONE 2

TALLEY® Product Specifications

EW20

ETW20 191.14x68 Standard Equipped 19.4m Equipped



CHARACTERISTICS

Construction Materials

Socket Material: PE
 Conductor Material: Copper
 Jacket Color: Black

Dimensions

Cable Volume: 334.0 L (107.13 ft³)
 Cable Weight: 0.48 kg (1.06 lb)
 Diameter Over Jacket (E-Profile): 33.50 mm 1 1.32 in
 Diameter Over Jacket (F-Profile): 26.50 mm 1 1.04 in
 Environmental Specifications
 Insulating Temperature: -40 °C to +50 °C (-40 °F to +120 °F)
 Operating Temperature: -55 °C to +85 °C (-67 °F to +185 °F)
 Storage Temperature: -70 °C to +85 °C (-94 °F to +185 °F)

General Specifications

Brand: HELIX

Mechanical Specifications

Maximum Torque: 6.20 N·m 1 2.63 ft·lb
 Minimum Bend Radius: Multiple Strands (E-Profile): 180.00 mm 1 7.10 in
 Minimum Bend Radius: Multiple Strands (F-Profile): 480.00 mm 1 19.00 in
 Minimum Bend Radius: Single Strand (E-Profile): 150.00 mm 1 5.90 in

www.commscope.com/etw20

©2010 Commscope, Inc. All rights reserved. All trademarks, trade names or registered trademarks of Commscope are identified in all specifications and subject to change. See www.commscope.com/etw20 for the most current information.

order online today at www.talley.com



A Commscope Company



Jerry & Rome | ASSOCIATES
 Architecture | Intercommunications
 1311 Independence Drive, Suite 100
 Ft. Worth, TX 76104
 Tel: 817.340.3931 Fax: 817.340.3931

PROPRIETARY INFORMATION

This document contains information that is the property of Commscope, Inc. and is intended for use only by the person to whom it is addressed. It is not to be distributed, copied, or otherwise used without the express written permission of Commscope, Inc.



Fig. 19410 - CSR

Mastec Network Solutions

APPROVALS	DATE
AREA GEN	05/28/14
WORK COS	DATE
WORK SUPERVISOR	06/04/14
ISSUE COS	DATE
ISSUE SUPERVISOR	DATE
DATE	05/28/14
DATE	DATE
DATE	DATE
DATE	DATE
DATE	DATE

PROJECT NAME:
 SITE NAME:
 PO NUMBER:
 PO NUMBER:
 PO NUMBER:
 PO NUMBER:
 PO NUMBER:

DATE: 05/28/14
 TIME: 10:00 AM
 DRAWN: JRM
 CHECKED: JRM

DATE: 05/28/14
 TIME: 10:00 AM
 DRAWN: JRM
 CHECKED: JRM

SHEET TITLE

SPECIFICATIONS

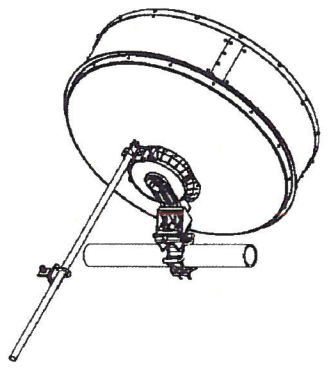
A-4

Installation Instructions

Title Line 1
Title Line 2

COMMSCOPE
Bulletin 7628916
www.commscope.com

This document is for the following:
VHLPI(X)4-*** 1.2m ANTENNA



SAFETY

ANTENNA INSTALLATION, MAINTENANCE OR REMOVAL MUST BE PERFORMED BY QUALIFIED EXPERIENCED INSTALLER.

It is essential that all appropriate national and local safety regulations be strictly observed to ensure the safety of personnel and to prevent damage to the equipment. Commscope cannot accept responsibility for accidents resulting from non-compliance with such regulations.

The Antenna is designed to attach to a vertical lower pipe of diameter 115mm
($\pm 15^\circ$ Fine) azimuth.

Always read the entire manual before commencing installation.

WARNING

Do not use any installation components (screws, nuts, etc) other than with the equipment or recommended by the supplier.

www.commscope.com/view

Andrew Solutions
Customer Services 24 hours
1300 653 122
01783 500 000

注意：Andrew 公司中所有材料均应符合相关的国家及地方安全法规，并应符合相关的国家及地方安全法规。
警告：Andrew 公司中所有材料均应符合相关的国家及地方安全法规，并应符合相关的国家及地方安全法规。

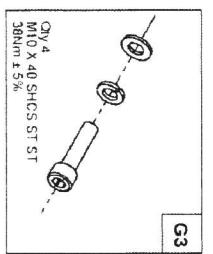
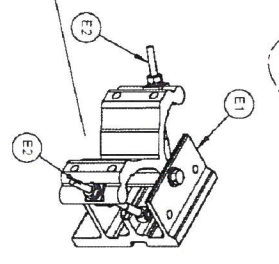
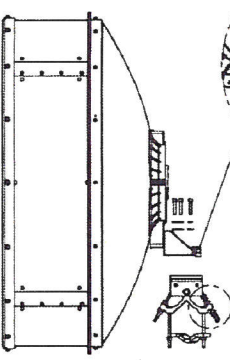
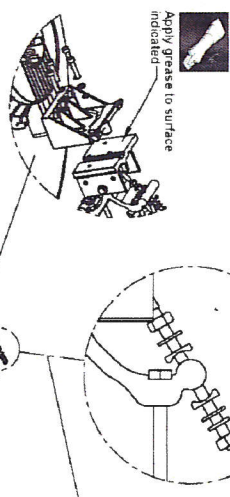
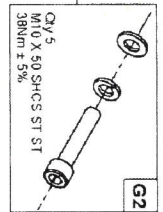
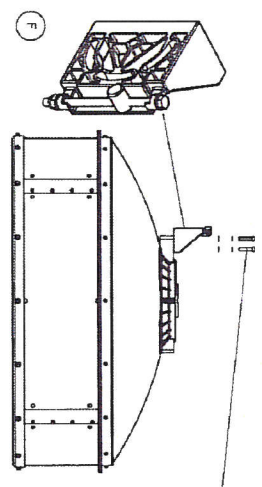


ANTENNA MOUNTING DETAILS

SECTION 8 INSTALLATION INSTRUCTIONS MOUNT ATTACHMENT AND ALIGNMENT

7628916

Remove braces and discard flings.



SCALE: NONE
1



Jeffrey Rome | ASSOCIATES
111 Innovation Drive, Suite 100
10400 West 20th Ave., Littleton, CO 80120
Tel: 303.763.5939 Fax: 303.763.5941

PROPRIETARY INFORMATION
THE INFORMATION CONTAINED IN THIS SET OF CONSTRUCTION DOCUMENTS IS THE PROPERTY OF MASTEC NETWORK SOLUTIONS AND IS NOT TO BE REPRODUCED, COPIED, OR DISSEMINATED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF MASTEC NETWORK SOLUTIONS.



Mastec Network Solutions

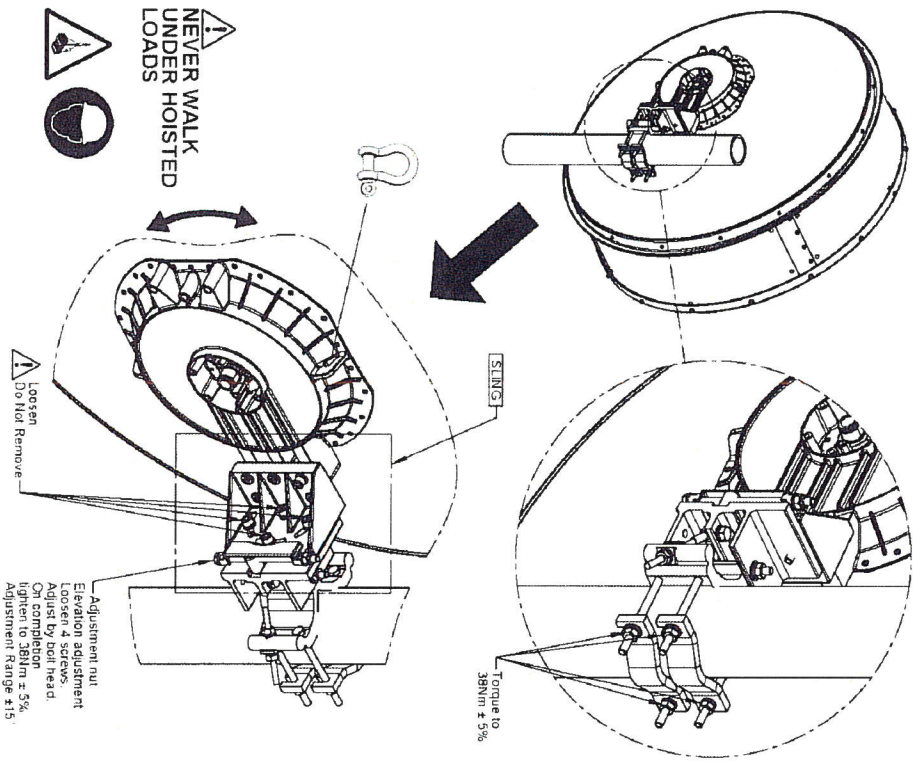
PROJECT	ANTENNAS
DATE	02/28/14
BY	BJM CSJ
CHECKED BY	DATE
DATE	04/09/14
DATE	DATE
DATE	DATE
DATE	DATE
DATE	DATE
DATE	DATE
DATE	DATE
DATE	DATE

PROJECT NAME: MICROWAVE UPGRADE
SITE NAME: POWDER MOUNTAIN
FA NUMBER: 12835251
DATE: 02/28/14
CONTRACTOR: MASTEC NETWORK SOLUTIONS
CLIENT: U.S. AIR FORCE
CONTRACT: WAFB R4130
DRAWING DATE: 02/28/14
DATE: 02/28/14
DATE: 02/28/14
DATE: 02/28/14
DATE: 02/28/14

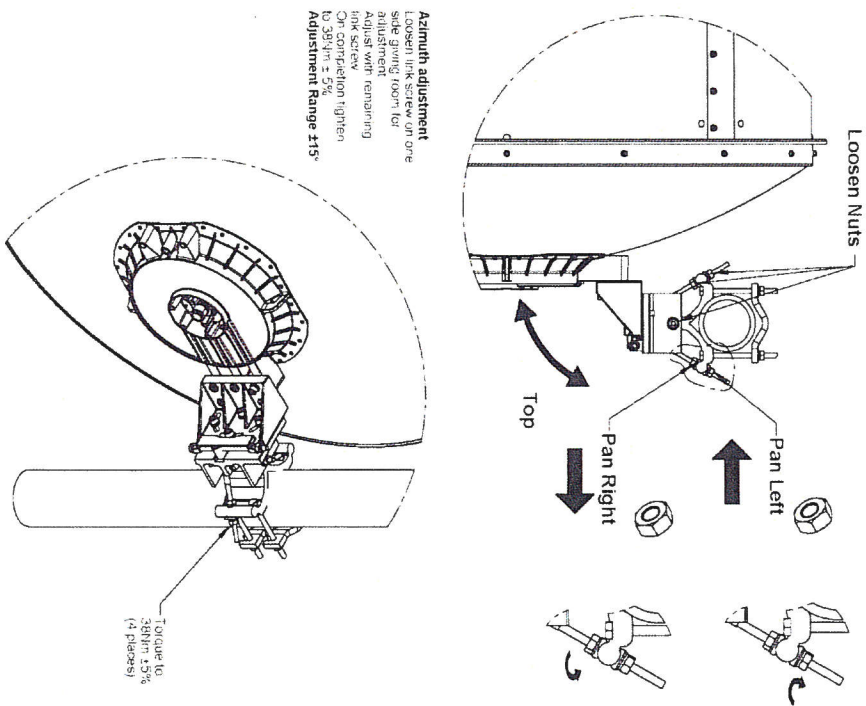
A-5

ANTENNA MOUNTING DETAILS

INSTALLATION INSTRUCTIONS
MOUNT ATTACHMENT AND ALIGNMENT
SECTION 8
7628916



INSTALLATION INSTRUCTIONS
MOUNT ATTACHMENT AND ALIGNMENT
SECTION 8
7628916



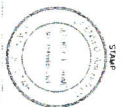
ANTENNA MOUNTING DETAILS

SCALE: NONE 1



Jeffrey Rome ASSOCIATES
architectural | telecommunications
131 Pasadena Drive, Suite 100
Ft. Lauderdale, FL 33317
P: 954.586.2929 | F: 954.262.2521

PROPRIETARY INFORMATION
THIS DOCUMENT CONTAINS TRADE SECRETS AND PROPRIETARY INFORMATION OF MASTEC, AND USE OF THIS DOCUMENT BY ANY OTHER PARTY IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF MASTEC.



APPROVALS

Mastec
Network Solutions

DATE: 05/28/14
BY: [Signature]
DATE: 06/04/14
DATE:

DATE: 05/28/14
DATE: 06/04/14
DATE:

PROJECT NAME: MICROWAVE UPGRADE
SITE NAME: POWDER MOUNTAIN
TA NUMBER: 12836251

DATE: 05/28/14
DATE: 06/04/14
DATE: 10/06/14

SHEET TITLE

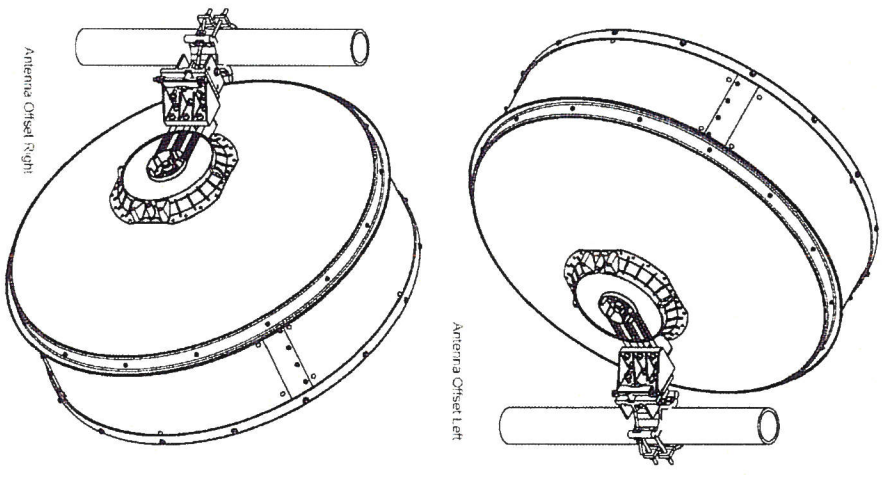
ANTENNA MOUNTING DETAILS

A-5.1

INSTALLATION INSTRUCTIONS

SECTION 8 MOUNT ATTACHMENT AND ALIGNMENT

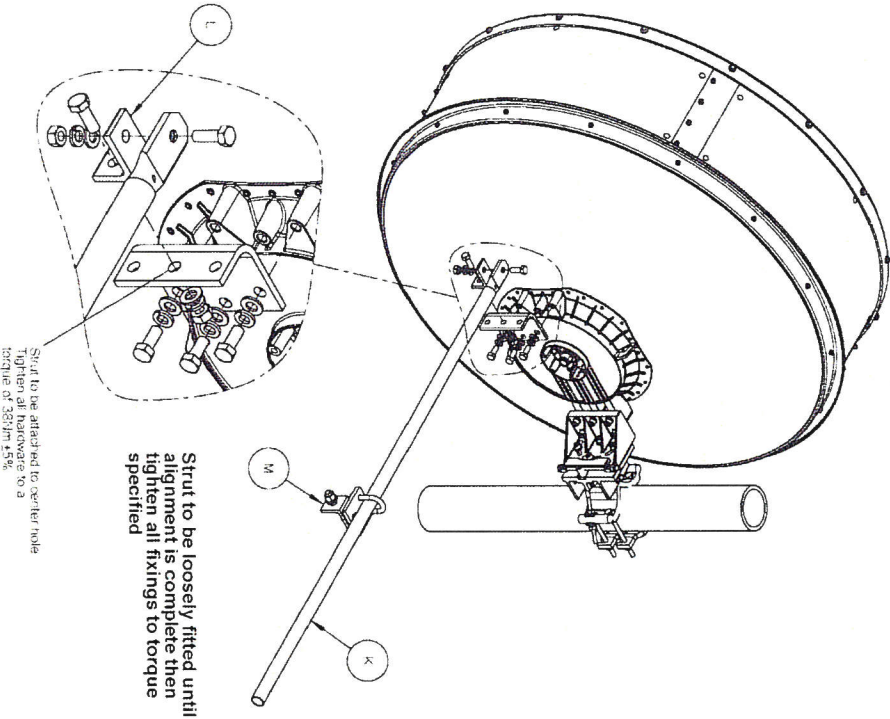
7628916



INSTALLATION INSTRUCTIONS

SECTION 8 MOUNT ATTACHMENT AND ALIGNMENT

7628916



Strut to be loosely fitted until alignment is complete then tighten all fixings to torque specified

Strut to be attached to center hole
Tighten all hardware to a torque of 380Nm ±5%

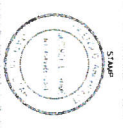
ANTENNA MOUNTING DETAILS

SCALE: NONE 1



Jeffrey Rome | ASSOCIATES
Architecture | Intercommunications
131 Innovation Drive, Suite 100
Farmingdale, NY 11735
Tel: 516.466.3099 | Fax: 516.466.3031

PROPRIETARY INFORMATION
This information contained herein is the property of Jeffrey Rome Associates, Inc. and is confidential. Other than what is expressly stated herein, this information is strictly confidential.



Mastec
Network Solutions

APPROVALS	
APRIL JIN	05/28/14
BOB COS	DATE
MARK WENTHOUSE	06/29/14
TONY COS	DATE
LOOK OVER WITH STRUCTURALS	DATE
ROBERT MATHISON	05/28/14
CONSTRUCTION	DATE
SITE ACQUISITION	DATE

PRODUCT NAME:
MICROWAVE UPGRADE
SITE NAME:
POWDER MOUNTAIN
TA NUMBER:
12836251
DATE: 05/28/14
DRAWN: VJW/94.310

DRAWING DATES:
05/28/14 SET CD REVIEW (P1-B1)
06/04/14 SET CD REVIEW (P1-B2)
06/04/14 LOOK OVER (P1-B2)

SHEET TITLE

ANTENNA MOUNTING DETAILS

A-5.2

Microwave Path Data Sheet

18700 Janda Farm Road, Leesville, VA, 20147
 (889)232-4372 info@comsearch.com

PCN Number: 1312302013
 Job Name: 131230COMSSL06
 New Path PCN Number: 13123029

Administrative Information
 City/Country: HUNTSVILLE UT
 Status / License Basis: W/EBER Engineering Proposal / PRIMARY OPERATION
 Call Sign: ATTWUT
 License Code: ATTWUT
 License Name: New Capital Wireless PCS LLC-Utan
 Radio Service / Station Class: CF - Port-to-Port Microwave, Common Carrier
 New Capital Wireless PCS LLC-Utan
 FOX - Fixed

Site Information
 Latitude (NAD 83): 41 - 18' 16.4" N
 Longitude (NAD 83): 111 - 46' 17.4" W
 Ground Elevation (feet-AMSL): 1620.05 / 4899.0
 Ant. Spacing Registration #: 2 912
 Path Length (km / miles): 10.932 / 6.793

Transmit Antenna
 Manufacturer: 77180A
 Model: ComScope
 Gain (dBi) / Beamwidth (°): VHL-PX4-11W
 Centrefine (m / ft - AGU): 40.8 / 150 / -0.17
 Centrefine (m / ft - AGU): 24.38 / 80.0

Receive Antenna
 Manufacturer: Same As Transmit
 Model: 77180A
 Gain (dBi) / Beamwidth (°): ComScope
 Centrefine (m / ft - AGU): VHL-PX4-11W
 Centrefine (m / ft - AGU): 40.8 / 150 / -0.24
 Centrefine (m / ft - AGU): 18.29 / 60.0

Diversity Receiver Antenna
 Manufacturer: TEOH02
 Model: Aclar-Lucet USA, Inc.
 Gain (dBi) / Beamwidth (°): 95MFR11-H128F40-214
 Centrefine (m / ft - AGU): 134.2

Radio Information
 Manufacturer: Aclar-Lucet USA, Inc.
 Model: 95MFR11-H128F40-214
 Description: 9500 MHz FPLP Fixed Modulation
 Emission Designator / Modulation: 40M0D7W 128 QAM
 Coding: 1 CH 128 QAM
 Stability (%): 0.001
 Power (dbm): Coordinated Maximum
 Received Level (dBm): 29.0
 EIRP (dbm): -36.8
 Free Space Loss (dB): 0.0 / 0.0
 Transmitt Frequencies (MHz): 10985.0000V(5)

MICROWAVE DATA SHEET AND PCN

MW Data Sheet



Date	1/8/2014	MW Engineer Name	Arnel Madrid	
MW Link (Site A-Site Z)	HUNTSVILLE-POWDER MOUNTAIN	Contact #	912-295-1824	
New or Existing Link	(Check One)	New	X	
WFS-MW-9475	Drain Site (A) Info	End Site (Z) Info		
SITE NAME	UTSIK HUNTSVILLE	UTSIK POWDER MOUNTAIN		
Site ID	US10	11186	47502	
FA CODE	10088092	1283631		
Coordinate	Lat	41.30184° N	Lat	41.271030° N
Address	Long	111.46174° W	Long	111.45553° W
City	3305 EAST 730 NORTH	UTAH HIGHWAY 158		
Affected Sites	HUNTSVILLE	EDEN		
PCI Required (Y/N)	Y	Compliance Assessment Required (Y/N)	Y	
Field Study Required	Y			
Scope of Work (SOW) Summary	NEW MICROWAVE PATH, Insite antenna, radio and waveguide.			

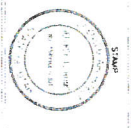
Detailed Design Information	Site A		Site Z	
	Existing	Change to	Existing	Change to
Dish Model	NA	VHL-PX4-11W-6GR	NA	VHL-PX4-11W-6GR
Dish Size	NA	4 ft	NA	4 ft
# of Dishes	NA	1	NA	1
Azimuth	NA	2317°	NA	187.917°
Rad. Center	NA	80 ft	NA	60 ft
Frequency	NA	10985.0000V	NA	11385.0000V
Radio Type	NA	95MFR11-H128F40-214	NA	95MFR11-H128F40-214
# of Radios	NA	1	NA	1
Cable Type	NA	EVS90	NA	EVS90
Cable length (ft)	NA	120 ft	NA	100 ft
Transport Drop (DSL, EMT, DSX, DS3d)	NA	DSL/EMT	NA	DSL/EMT

SCALE: NONE 1



Jeffrey Rome | ASSOCIATES
 Architecture | Telecommunications
 131 Innovation Drive, Suite 100
 Irving, TX 75039 | (972) 251-1511
 (972) 251-1511 | (972) 251-1511

PROPRIETARY INFORMATION
 SET OF CONSTRUCTION DOCUMENTS IS THE PROPERTY OF JTB ASSOCIATES. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREIN. NO PART OF THIS DOCUMENT IS TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF JTB ASSOCIATES.



Mastec
 Network Solutions

APPROVALS
 DATE: 05/29/14
 DATE: _____
 DATE: _____

CONSTRUCTION DATE: _____
 DATE: _____
 DATE: _____

PROJECT NAME: MICROWAVE UPGRADE
 SITE NAME: POWDER MOUNTAIN
 FA NUMBER: 12836251
 UTM ZONE: 18Q
 UTM EASTING: 643.0
 UTM NORTHING: 643.0

ISSUING DATES: 05/28/14 08:00 AM (P1-81)
 SHEET TITLE: A-6

PCN AND MICROWAVE DATA SHEET