



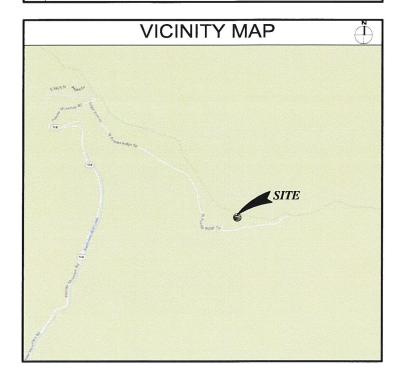
POWDER MOUNTAIN **UTAH HIGHWAY 158 EDEN, UTAH 84310** FA# 12836251 **NOVA PROJECT ID: WES-MW-94775**

SPECIAL INSPECTIONS

13.1 VERIFY SOIL CONDITIONS ARE SUBSTANTIALLY IN

- CONCRETE
 BOLTS INSTALLED IN CONCRETE
- BOLTS INSTALLED IN CONCRETE
 CONCRETE MOMENT—RESISTING SPACE FRAME
 REINFORCING STEEL AND PRESTRESSING STEEL
 1 ALL STRUCTURAL WELDING
 2 WELD TESTING DUCTILE MOMENT—RESISTING STEEL FRAME
 3 WELDING REINFORCING STEEL
 HIGH—STRENGTH BOLTING
 STRUCTURAL MASONRY
 REINFORCED GYPSUM CONCRETE
 INSULATING CONCRETE FILL
 SPRAY—APPLIED FIREPROOFING
 DEEP FOUNDATIONS (PILING, DRILLED & CAISSONS)
 5 SHOTCRETE
 SHOUTH

	CONCRETE BOLTS INSTALLED IN CONCRETE CONCRETE MOMENT—RESISTING SPACE FRAME REINFORCING STEEL AND PRESTRESSING STEEL		VERIFY SOIL CONDITIONS ARE SUBSTANTIALLY IN CONFORMANCE WITH THE SOIL INVESTIGATION REPORT VERIFY THAT FOUNDATION EXCAVATIONS EXTEND TO PROPER DEPTH AND BEARING STRATA
5.1 5.2 5.3 6 7 8 9 10	ALL STRUCTURAL WELDING WELD TESTING DUCTILE MOMENT-RESISTING STEEL FRAME WELDING REINFORGING STEEL HIGH-STRENGTH BOLTING STRUCTURAL MASONRY REINFORCED GYPSUM CONCRETE INSULATING CONCRETE FILL SPRAY-APPLIED FIREPROPING DEEP FOUNDATIONS (PILING, DRILLED & CAISSONS)	13.4 14 15	SPECIAL CASES (DESCRIBE) OFF-SITE FABRICATION OF BUILDING COMPONENTS
NO.	DESCRIPTION OF TYPE OF INSPECTION REQUIRED, LO	CATION	, REMARKS.
		79072270	
-8			



CONSULTANT TEAM

CLIENTS REPRESENTATIVE:

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DEVELOPMENT SUMMARY

APPLICANT:

AT&T MOBILITY
188 INVERNESS DRIVE WEST, SUITE 400

ENGLEWOOD, COLORADO 80112

SUMMIT MOUNTAIN HOLDING GROUP LLC LAND OWNER: 883 N YACHT CLUB DR EDEN, UTAH 84310

ATAIT TOWERS

YES

TOWER OWNER:

OTHER ON-SITE TELECOM FACILITIES:

ASSESSORS PARCEL NUMBER: 16-001-0009

41° 22' 10.3" N LATITUDE: 41.369517 LONGITUDE: 111° 45′ 53.5″ W LAT/LONG TYPE: NAD-83

GROUND ELEVATION 8907.0' AMSL EXISTING ZONING: C (COMMERCIAL) PROPOSED PROJECT AREA: NO INCREASE IN S.F.

EXISTING TYPE OF CONSTRUCTION: TYPE V-B PROPOSED TYPE OF CONSTRUCTION: TYPF V-R EXISTING OCCUPANCY: U-2 PROPOSED OCCUPANCY U-2

JURISDICTION COUNTY OF WERER

SHEET INDEX

TITLE SHEET SPECIFICATIONS AND NOTES

OVERALL SITE PLAN

SITE PLAN

SITE PLAN
ENLARGED SITE AND EQUIPMENT PLAN
EXISTING & PROPOSED ELEVATIONS
ANTENNA DETAILS
ANTENNA SPECIFICATIONS
ANTENNA MOUNTING DETAILS

ANTENNA MOUNTING DETAILS ANTENNA MOUNTING DETAILS PCN AND DATA SHEET

APPLICABLE CODES

ALL WORK SHALL COMPLY WITH THE FOLLOWING APPLICABLE CODES:

IBC 2012 UTAH BUILDING CODE IBC 2012 UTAH STRUCTURAL CODE IPC 2012 UTAH PLUMBING CODE IMC 2012 UTAH MECHANICAL CODE INCC 2011 UTAH ELECTRIC CODE

IFC 2012 UTAH FIRE/LIFE SAFETY CODE IECC 2009 UTAH ENERGY CODE

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

PROJECT DESCRIPTION

AT&T MOBILITY PROPOSES TO MODIFY AN EXISTING UNMANNED WIRELESS COMMUNICATIONS FACILITY. THIS MODIFICATION WILL CONSIST OF THE FOLLOWING

. INSTALL NEW 4'-0" MICROWAVE ANTENNA AT A 62'-0" RAD CENTER. . INSTALL NEW (1) RUN OF EW-90 WAVEGUIDE CABLE.

ACCESSIBILITY DISCLAIMER

THIS PROJECT IS AN UNOCCUPIED WIRELESS PCS TELECOMMUNICATIONS FACILITY AND IS EXEMPT FROM DISABLED ACCESS REQUIREMENTS.

SCALE

THE DRAWING SCALES SHOWN IN THIS SET REPRESENT THE CORRECT SCALE ONLY WHEN THESE DRAWINGS ARE PRINTED IN A 24"X36" FORMAT. IF THIS DRAWING SET IS NOT 24"X36", THIS SET IS NOT TO SCALE.



Jeffrey Rome | ASSOCIATES

architecture | telecommunications

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PROPRIETARY INFORMATION

THE INFORMATION CONTAINED IN THIS SET OF CONSTRUCTION DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO AT&CT WIRELESS IS STRICTLY PROHIBITED.



PREPARED FOR

«MasTec **Network Solutions**

APPROVALS 05/28/14 90% CDS

MARK WHITEHOUSE 06/04/14 100% CDS

100% CDS WITH STRUCTURALS DATE

ROBERT HUNTER CONSTRUCTION

DATE

PROJECT NAME MICROWAVE UPGRADE

SITE NAME

POWDER MOUNTAIN FA NUMBER

12836251

UTAH HIGHWAY 158 EDEN, UTAH 84310

DRAWING DATES

05/28/14 90% CD REVIEW (P1-B1) 06/04/14 100% FINAL CDS (P1-B2)

SHEET TITLE

TITLE SHEET

T-1

SPECIFICALLY DIRECTED ACCESS REQUIREMENTS.

3. PRIOR TO THE SUBMISSION OF BIDS, THE CONTRACTORS PARTICIPATING SHALL VISIT THE JOB SITE AND FAMILIARIZE THEMSELVES WITH ALL FIELD CONDITIONS AFFECTING THE PROPOSED PROVECT INCLUDING DEMOLITION, ELECTRICAL, MECHANICAL AND STRUCTURAL INSTALLATIONS, AS WELL AS WITH THE CONSTRUCTION AND CONTRACT DOCUMENTS AND SHALL CONFIRM THAT THE PROLECT CAN BE ACCOMPUSHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION, SHOULD ANY ERRORS, OMISSION, ON PRIOR TO PROCEEDING WITH CONSTRUCTION, SHOULD ANY ERRORS, OMISSION, ON DISCREPANCIES THE CONTRACTOR SHALL IMMEDIATELY INVESTIGE. IN WRITING. IN THE EVENT OF DISCREPANCIES THE CONTRACTOR SHALL INCLUDE THE MORE COSTLY OR EXTENSIVE WORK IN THE BID, UNLESS SPECIFICALLY DIRECTED OTHERWISE. IF A DISCREPANCY EXISTS AND THE PROJECT MANAGER AND ARCHITECT ARE NOT NOTIFIED, THE GENERAL CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ALL COSTS INCURRED TO REPAIR OR CORRECT ALL PROBLEMS THAT RESULT.

1. DRAWINGS SHALL NOT BE SCALED. THESE DRAWINGS ARE INTENDED TO BE DIAGRAMMATIC ONLY. FIGURED DIMENSIONS HAVE PRECEDENCE OVER DRAWING SCALE AND DETAIL DRAWINGS NAVE PRECEDENCE OVER SWALL SCALE DRAWINGS. CONTRACTOR SHALL CHECK ACCURACY OF ALL DIMENSIONS IN THE FIELD UNIESS SPECIFICALLY NOTED. DO NOT FABRICATE ANY MATERIALS, OR BEGIN ANY CONSTRUCTION UNTIL THE ACCURACY OF DRAWING DIMENSIONS HAS BEEN VERIFIED AGAINST ACTUAL FIELD DIMENSIONS.

5. CONTRACTOR SHALL NOTIFY THE AT&T MOBILITY CONSTRUCTION MANAGER, THE PROPERTY OWNER AND THE ARCHITECT IF ANY DETAILS ARE CONSIDERED IMPRACTICAL, UNSUITABLE, UNSAFE, NOT WATERPROOF, OR NOT WITHIN CUSTOWARY TRADE PRACTICE. IF WORK IS PERFORMED, IT WILL BE ASSUMED THAT THERE IS NO OBJECTION TO ANY DETAIL DETAILS ARE INTENDED TO SHOW THE END RESULT OF THE DESIGN. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT JOB CONDITIONS, AND SHALL BE INCLUDED AS PART OF THE WORK.

7. EXISTING ELEVATIONS AND LOCATIONS TO BE JOINED SHALL BE VERIFIED BY
THE CONTRACTOR BEFORE CONSTRUCTION. IF THEY DIFFER FROM THOSE
SHOWN ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE AT&T MOBILITY
CONSTRUCTION MANAGER AND THE ARCHITECT SO THAT MODIFICATIONS CAN
BE MADE BEFORE PROCEEDING WITH THE WORK.

28.

3. THE CONTRACTOR SHALL VERIFY ALL TELEPHONE & RADIO EQUIPMENT LAYOUTS, SPECIFICATIONS, PERFORMANCE, INSTALLATION AND FINAL LOCATIONS WITH AT&T MOBILITY CONSTRUCTION MANAGER PRIOR TO BEGINNING WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING HIS WORK WITH ERICSSON RADIO SYSTEMS.

ALL SYMBOLS & ABBREVIATIONS USED ON THE DRAWINGS ARE CONSIDERED CONSTRUCTION STANDARDS. IF THE CONTRACTOR HAS QUESTIONS RECARDING THEIR EXACT MEANING, THE AT&T MOBILITY CONSTRUCTION MANAGER AND THE ARCHITECT SHALL BE NOTIFIED FC CLARIFICATION BEFORE THE CONTRACTOR PROCEEDS WITH THE WORK

D. THE CONTRACTOR SHALL OBTAIN AND PAY FOR PERMITS, LICENSES AND INSPECTIONS NECESSARY FOR PERFORMANCE OF THE WORK AND INCLUDE THOSE IN THE COST OF THE WORK TO AT&T MOBILITY.

. THE CONTRACTOR SHALL PROVIDE CONTINUOUS SUPERVISION WHILE ANY SUBCONTRACTORS OR WORKNEN ARE IN THE SITE AND SHALL SUPERVISE AND DIRECT ALL WORK, USING HIS BEST SKILL AND ATTENTION. HE SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, PROCEDURES AND SEQUENCES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.

NATIONAL RODFING CONTRACTORS ASSOCIATION O'HARE INTERNATIONAL CENTER 10255 W. HIGGENS ROAD, SUITE 600 ROSEMONT, IL 60018

SMACNA SHEET METAL AND AIR CONDITIONING CONTRACTORS

INTERNATIONAL INSTITUTE FOR LATH AND PLASTER 820 TRANSFER ROAD ST. PAUL, MN 55114-1406

INSTALL ALL EQUIPMENT AND MATERIALS PER THE LATEST EDITION OF THE MANUFACTURER'S INSTALLATION SPECIFICATIONS UNLESS SPECIFICALLY OTHERWISE INDICATED, OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.

. THE CONTRACTOR SHALL VERIFY, COORDINATE, AND PROVIDE ALL NECESSARY BLOCKING, BACKING, FRAMING, HANGARS OR OTHER SUPPORTS FOR ALL ITEMS REQUIRING THE SAME.

. THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL GIVE ALL NOTICES AND SHALL COMPLY WITH ALL APPLICABLE LOCAL CODES, REGULATIONS, LAWS AND ORDINANCES AS WELL AS STATE DEPARTMENT OF INDUSTRIAL REGULATIONS AND DIVISION OF INDUSTRIAL SAFETY (OSHA) REQUIREMENTS.

THE CONTRACTOR SHALL PROTECT THE PROPERTY OWNERS, AND AT&T MOBILITY PROPERTY FROM DAMAGE WHICH MAY OCCUR DURING MOBILITY OF THE MANUEL THAT WAS A CONSTRUCTION. ANY DAMAGE TO NEW AND EXISTING FINISHES, CONSTRUCTION, STRUCTURE, LANDSCAPING, CURBS, STARS, OR EQUIPMENT, ETC. SHALL BE IMMEDIATELY REPAIRED OR REPLACED TO THE SATISFACTION OF AT&T MOBILITY, AND THE PROPERTY OWNER'S REPRESENTATIVE, AT THE EXPENSE OF THE CONTRACTOR.

. THE CONTRACTOR SHALL BE RESPONSIBLE FOR, AND SHALL REPLACE OR REMEDY, ANY FAULTY, IMPROPER, OR INFERIOR MATERIALS OR WORKMANSHIP OR ANY DAMAGE WHICH SHALL APPEAR WITHIN ONE YEAR AFTER THE COMPLETION AND ACCEPTANCE OF THE WORK BY AT&T MOBILITY UNDER THIS CONTRACT.

B. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO LOCATE ALL EXISTING UTILITIES, OR CONTACT AN OUTSIDE AGENCY TO LOCATE ALL EXISTING UTILITIES, WHETHER SHOWN HEREIN OR NOT, AN TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL BEAR ALL EXPENSES FOR THE REPAR OR REPLACEMENT OF UTILITIES OR OTHER PROPERTY DAMAGED IN CONJUNCTION WITH THE EXECUTION OF WORK.

. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE SECURITY OF THE PROJECT SITE WHILE THE JOB IS IN PROGRESS AND UNTIL THE JOB IS COMPLETED AND ACCEPTED BY AT&T MOBILITY.

THE LATEST EDITION OF THE AMERICAN INSTITUTE OF ARCHITECTS DOCUMENT 20. THE CONTRACTOR SHALL PROVIDE TEMPORARY WATER, POWER AND

THIS FACILITY IS AN UNDOCCUPIED PCS TELECOMMUNICATIONS SITE AND IS EXEMPT FROM DISABLED ACCESS REQUIREMENTS.

21. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REDLINING THE CONSTRUCTION DOCUMENTS TO ILLUSTRATE THE AS-BUILT CONSTRUCTION DOCUMENTS TO ILLUSTRATE THE AS-BUILT CONDITION OF THE SITE. THIS SHALL BE DONE AFTER THE SITE HAS BEEN AWARDED FINAL INSPECTION BY THE RESPONSIBLE BUILDING AGENCY. ONE SET OF REDLINED DRAWINGS SHALL BE PROVIDED TO THE AT&T MOBILITY CONSTRUCTION MANAGER.

> 22. THE LATEST EDITION OF ALL PERMITTED AND APPROVED PLANS PERTAINING TO THIS PROJECT SHALL BE KEPT IN A PLAN BOX AND SHALL NOT BE USED BY WORKERS. ALL CONSTRUCTION SETS SHALL REFLECT THE SAME INFORMATION. THE CONTRACTOR SHALL ALSO MAINTAIN IN GOOD CONDITION ONE COMPLETE SET OF PLANS WITH ALL REVISIONS, ADDENDA AND CHANGE ORDERS ON THE PREMISES AT ALL TIMES. THESE ARE TO BE UNDER THE CARE OF THE JOB SUPERINTENDENT.

23. THE CONTRACTOR SHALL REMOVE ALL RUBBISH AND WASTE MATERIALS ON A DAILEY BASIS, EXCEPT FOR THAT SPECIFIED AS REMAINING THE PROPERTY OF THE BUILDING OR PROPERTY OWNER AND SHALL EXERCISE STRICT CONTROL OVER JOB CLEANING THROUGHOUT CONSTRUCTION, INCLUDING FINAL CLEAN-UP UPON COMPLETION OF WORK, ALL AREAS ARE TO BE LEFT IN A BROOM CLEAN CONDITION AT THE END OF EACH DAY AND VACUUM CLEAN CONDITION, FREE FROM PAINT SPOTS, DUST OR SMUDGES OF ANY

24. THE GENERAL CONTRACTOR MUST PERFORM WORK DURING PROPERTY OWNER'S PREFERRED HOURS TO AVOID DISRUPTION OF

NOT 25. ALL EXPOSED METAL SHALL BE HOT-DIPPED GALVANIZED.

26.SEAL ALL PENETRATIONS THROUGH FIRE—RATED AREAS WITH U.L. LISTED OR FIRE MARSHALL APPROVED MATERIALS IF AND WHERE APPLICABLE TO THIS FACILITY AND PROJECT SITE

27. PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 2-A OR 2-A10BC WITHIN 75 FEET TRAVEL DISTANCE TO ALL PORTIONS OF THE PROJECT AREA CONSTRUCTION.

28. ELECTRICAL POWER SYSTEM SHALL BE GROUNDED PER NEC ARTICLES 250 AND 810.

29. ALL NEW OPENINGS IN THE EXTERIOR ENVELOPE OF CONDITIONED SPACES SUCH AS AT WALL AND ROOF PENETRATIONS SHALL BE CAULKED OR SEALED TO LIMIT INFILTRATION OF AIR AND MOISTURE.

30. UPON COMPLETION OF CONSTRUCTION, AT&T MOBILITY CONSTRUCTION MANAGER SHALL CONDUCT A WALK-THRU WITH PROPERTY OWNER OR REPRESENTATIVE OF PROPERTY OWNER.

31. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL SYSTEM EQUIPMENT IN A CLEAN WORKING ORDER UNTIL ACCEPTANCE OF THE PROJECT BY AT&T MOBILITY.

32 INSTALL ALL FOUIPMENT AND MATERIALS PER THE LATEST EDITION OF THE MANUFACTURER'S INSTALLATION SPECIFICATIONS UNLESS SPECIFICALLY OTHERWISE INDICATED, OR WHERE LOCAL CODES OR REGULATION TAKE PRECEDENCE.

ROOFING & WATERPROOFING NOTES

1.CONTRACTOR SHALL CONTACT BUILDING OWNER TO DETERMINE IF ROOF IS UNDER WARRANTY. CONTRACTOR SHALL GUARANTEE THAT ANY AND ALL NEW ROOFING WORK MEETS THE SPECIFICATION OF ANY EXISTING ROOFING WARRANTIES SUCH THAT THE WARRANTY IS NOT MADE INVALID AS A RESULT OF THIS WORK. IF IT IS DETERMINED THAT THE ARCHITECT'S DETAILING IS INADEQUATE OR IMPROPER OR IF ANY OTHER DISCREPANCY IS FOUND, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT AND THE AT&T MOBILITY PROJECT MANAGER IN WRITING. ULTIMATELY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH THE ORIGINAL ROOF MANUFACTIRER'S SPECIFICATIONS

COMPATIBLE WITH EXISTING MATERIALS & CONDITIONS FOR ROOF PATCHING, NEW PENETRATIONS, ETC.

3. THE CONTRACTOR SHALL PROPERLY SEAL ALL NEW ROOF & BUILDING ENVELOPE PENETRATIONS SUCH THAT THE INTEGRITY OF THE ORIGINAL BUILDING ASSEMBLY AND ALL APPLICABLE WARRANTIES ARE MAINTAINED

4.IF IT DEEMED NECESSARY TO REMOVE EXISTING FINISHES AND/OR MATERIALS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECONSTRUCTING FINISHES AND MATERIALS TO LIKE-NEW CONDITION. CONTRACTOR SHALL MAINTAIN THE ORIGINAL COLORS, TEXTURES & FINISHES UNLESS SPECIFICALLY NOTED TO THE CONTRARY OR APPROVED BY THE ATAT MOBILITY CONSTRUCTION MANAGER IN

5 AT THE AT&T MOBILITY CONSTRUCTION MANAGER'S DIRECTION THE CONTRACTOR SHALL PROVIDE ROOFTOP WALKPADS TO ALL NEW EQUIPMENT INCLUDING ANTENNAS AND BTS UNITS AND ALONG COAX CABLE ROUTING. ON CONVENTIONAL ROOFING, THE WALK PADS SHALL BE "DUCK BOARDS" AS MANUFACTURED BY APC OR EQUAL. ON SPECIAL ROOFING SYSTEMS SUCH AS SINGLE MEMBRANE ROOFS WILL REQUIRE A SPECIFIC PRODUCT AS NOTED ON PLANS OR AS REQUIRED BY NOTES 1 & 2 ABOVE

PENETRATION AT FIRE RATED ASSEMBLIES

1. AT THE AT&T MOBILITY PROJECT MANAGER'S DIRECTION, THE CONTRACTOR SHALL PROVIDE "HILTI" HIGH PERFORMANCE FIRESTOP SYSTEM #FS601 AT ALL FIRE RATED PENETRATIONS INSTALLED PER MANUFACTURER'S LATEST INSTALLATION SPECIFICATIONS.

2. ALL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES SHALL B CONSTRUCTED SO AS TO MAINTAIN AN EQUAL OR GREATER FIRE RATING.

PAINTING NOTES & SPECIFICATIONS

ALL PAINT PRODUCT LINES SHALL BE SHERWIN WILLIAMS UNLESS SPECIFICALLY NOTED OTHERWISE.

CONTRACTOR SHALL PREPARE ALL SURFACES AND APPLY ALL FINISHES PER LATEST EDITION OF MANUFACTURER'S SPECIFICATIONS.

COMPLY WITH MANUFACTURER'S WRITTEN INSTRUCTIONS REGARDING SUFFICIENT DRYING TIME BETWEEN COATS WITH PROVISIONS AS RECOMMENDED BY MANUFACTURER FOR EXISTING WEATHER CONDITIONS.

FINISH COLOR AND TEXTURE OF ALL PAINTED SURFACES SHALL MATCH EXISTING ADJACENT SURFACES UNLESS OTHERWISE NOTED.

ALL PAINT MATERIAL DATA SHEETS SHALL BE PROVIDED TO THE AT&T MOBILITY CONSTRUCTION MANAGER

PREPARE PREVIOUSLY PAINTED SURFACE BY LIGHT SANDING WITH 400 GRIT SANDPAPER AND NON-HYDROCARBON WASH. PREPARE CALVANIZED SURFACES BY ACID ETCH OR SOLVENT CLEANING IN ACCORDANCE WITH SSPC-SP1.

FURNISH DROP CLOTHES, SHIELDS, MASKING AND PROTECTIVE METHODS TO PREVENT SPRAY OR DROPPINGS FROM DAMAGING ADJACENT SURFACES AND

APPLY PAINT BY AIRLESS SPRAY, SANDING LIGHTLY BETWEEN EACH SUCCEEDING ENAMEL COAT ON FLAT SURFACES. APPLY MATERIAL TO ACHIEVE A COATING NO THINNER THAN THE DRY FILM THICKNESS INDICATED.

APPLY BLOCK FILTER TO CONCRETE BLOCK CONSTRUCTION AT A RATE TO ENSURE COMPLETE COVERAGE WITH PORES COMPLETELY FILLED.

O CONTRACTOR SHALL CORRECT RUNS, SAGS, MISSES AND OTHER DEFECTS TOURING INADEQUATE COVERAGE AS DIRECTED BY THE AT&T MOBILITY CONSTRUCTION MANAGER, REPAINT AS NECESSARY TO ACHIEVE SURFACES WHICH ARE SMOOTH, EVENLY COATED WITH UNIFORM SHEEN AND FREE FROM BLEMISHES.

PAINT THE FOLLOWING MATERIALS AND SYSTEMS CHECKED BELOW WITH THE COATING SYSTEM INDICATED

PAINTING	SCOPE				
SURFACE TO BE PAINTED	COATING SYSTEM	PAINT	DO NOT	PAINT	H/A
ETS UNIT					
ALL EQUIPMENT & CABINETS OTHER THAN THE BTS UNIT				-	L.
ANTENNA COVERS, TILT BRACKETS, MOUNTING BRACKETS AND ASSOCIATED HARDWARE, CABLE AND CABLE COVERS EXPOSED TO VIEW, EXPOSED CONDUCT AND HANGERS, ETC.					
FLASHING UNITS, METAL TRIM AND OTHER METAL SURFACES		1			_
STUCCO, CONCRETE, CONCRETE BLOCK AND CEMENTIOUS TYPE FINISH SYSTEMS.					
PLYWOOD, LUNGER AND WOOD TRIK INCLUDING THE BACK SIDE OF ALL SCREENWALLS	0.90				
DRYMMLL	0.000				
CONCRETE POLES	30.00				
METAL POLES AND METAL POLE STAND-OFF		1	1		

C. COATING SYSTEM SPECIFICATIONS

DTM ACRYLIC COATING (SERIES B66) BY SHERWIN WILLIAMS CO. 1MIL DFT PER COAT APPLIED IN TWO COATS OVER DTM BONDING PRIMER (B66A5O)

100% ACRYLIC, LATEX COATING EQUIVALENT TO A-100 (SERIES A-82) BY SHERWIN WILLIAMS CO. 1 MIL DFT PER COAT APPLIED IN TWO COATS OVER SPECIFIED PRIMER.

PAINT & PRIMER

. ANTENNAS PRIMER - KEM AQUA E61-W525 TOPCOAT - COROTHANE # 865W200/860V22

BTS CABINET PRIMER - KEM AQUA E61-W525

TOPCOAT - COROTHANE | B65W200/B60V22

PRIMER – AS REQUIRED FOR ADHESION. APPLY6 ONE COAT OF KEM AQUA WATER REDUCIBLE PRIMER E61W25 REDUCED 25% TOPCOAT - 2 COATS COROTHANE II POLYURETHANE B65W200/B60V2

PRIMER - KEM BOND HS B50WZ4, DMT ACRYLIC PRIMER TOPCOAT - 2 COATS COROTHANE II POLYURETHANE B65W200/B60V2

GALVANIZED METAL ACID ETCH WITH COMMERCIAL ETCH OR VINEGAR PRIMER COAT AND FINISH COAT (GALVITE HIGH SOLIDS OR DTM PRIMER/FINISH)

STAINLESS STEEL PRIMER - OTM WASH PRIMER, B71Y1

TOPCOAT - 2 COATS COROTHANE II POLYURETHANE B65W200/B60V2

TOUCH UP ANY RUST OR UN-PRIMED STEEL WITH KEM BOND HS. SSOWZ4

ALUMINUM & COPPER PRIMER - DTM WASH PRIMER, B71Y1

TOPCOAT - 2 COATS COROTHANE II POLYURETHANE B65W200/B60V2

CONCRETE MASONRY

PRIMER - PRO MAR EXTERIOR BLOCK FILLER
TOPCOAT - 2 COATS A-100 LATEX HOUSE & TRIM, SHEEN TO MATCH

CONCRETE STUCCO(EXISTING)

2 COATS A-100 LATEX HOUSE & TRIM, SHEEN TO MATCH

PRIMER - PRO MAR MASONRY CONDITONER B-46-W21000
TOPCOAT - SUPERPAINT A-80 SERIES A-89 SATIN A-84 GLOSS PRIMER - A-100 EXTERIOR ALKYD WOOGD PRIMER Y-24W20 - 2 COATS A-100 LATEX HOUSE & TRIM SHEEN TO MATCH ADJACENT SURFACES

PRIMER - A-100 EXTERIOR ALKYD WOOD PRIMER Y-24W20 TWO COATS SHOP APPLIED PER GLU-LAM MANUFACTURER'S SPECIFICATIONS
AT - SUPERPAINT A-80 SERIES A-89 SATIN A-84 GLOSS TWO COATS SHOP OR FIELD APPLIED AT CONTRACTOR'S OPTION

FIFLD CUTS /DAMAGE (PRIOR TO PRIME & PAINT) FIRST & SECOND COAT - CUPRING C FAIRTY #158-0356
ALL PENETRATIONS INTO FINISHED CLU-LAMS SHALL BE CAULKED WITH "SIKAFLEX" SEALANT

STEEL TOUCH UP STEEL THAT HAS BEEN WELDED, CUT OR SCRATCHED IN THE FIELD SHALL BE TOUCHED UP WITH COLD GALVANIZED PAINT

STRUCTURAL SPECIFICATIONS

A. GENERAL

PRECEDENCE: UNLESS OTHERWISE SHOWN OR SPECIFIED, THE FOLLOWING GENERAL NOTES SHALL APPLY. INFORMATION ON THESE DRAWINGS SHALL HAVE THE FOLLOWING PRECEDENCE.

ALL DIMENSIONS TO TAKE PRECEDENCE OVER SCALE SHOWN ON PLANS, SECTIONS AND DETAILS.

B. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE GENERAL NOTES AND TYPICAL DETAILS.

C. MATERIAL NOTES AND SPECIFICATIONS ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER THE SPECIFICATIONS. OTHER TRADES: SEE THE ARCHITECTURAL DRAWINGS FOR ALL

DIMENSIONS NOT SHOWN. GENERAL DETAILS AND NOTES ON THESE SHEETS SHALL APPLY UNLESS SPECIFICALLY SHOWN OR NOTED OTHERWISE. CONSTRUCTION DETAILS NOT FULLY SHOWN OR NOTED SHALL BE

SIMILAR TO DETAILS SHOWN FOR SIMILAR CONDITIONS

SHORING: IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL ALL TEMPORARY BRACING AND SHORING TO INSURE THE SAFETY OF THE WORK UNTIL IT IS IN IT'S COMPLETED FORM. THIS INCLUDES UNDERPINNING EXISTING FOOTINGS WHERE APPLICABLE.

SAFETY: THESE STRUCTURAL DRAWINGS REPRESENT THE FINISHED STRUCTURE. UNLESS OTHERWISE INDICATED, THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION.

WATERPRODEING: WATERPRODEING AND DRAINAGE, DETAILS AND SPECIFICATIONS, ALTHOUGH SOMETIMES SHOWN ON STRUCTURAL DRAWING ARE OF GENERAL INFORMATION PURPOSES ONLY. WATERPROOFING AND DRAINAGE ARE SOLELY THE DESIGN RESPONSIBILITY OF THE ARCHITECT

B. STEEL

. ALL STRUCTURAL STEEL SECTIONS AND WELDED PLATE MEMBERS SHALL CONFORM TO ASTM A-36 AND BE FABRICATED IN ACCORDANCE WITH THE SPECIFICATIONS OF THE AISC.

BOLTS SHALL CONFORM TO ASTM A-307 LINLESS OTHERWISE NOTED ON PLANS. HIGH STRENGTH BOLTS SHALL CONFORM TO ASTM A-325

3. STEEL PIPE COLUMNS SHALL BE GRADE "B" CONFORMING TO ASTM

. STEEL TUBING SHALL BE GRADE "B" CONFORMING TO ASTM A500.

ALL WELDING SHALL BE DONE BY THE SHIELDED ARC METHOD ALL WELDERS SHALL BE PROPERTY QUALIFIED AND BE PRE—APPROVED.
SURPLUS METAL SHALL BE DRESSED OFF TO SMOOTH, EVEN
SURFACES WHERE WELDS ARE NOT EXPOSED TO VIEW, ALL WELDING
SHALL COMPLY WITH THE LATEST A.W.S. SPECIFICATIONS.

5. THE FOLLOWING WELDING EQUIPMENT MUST BE USED: B. ROD OVENS.

. NO BUZZ BOXES SHALL BE USED.

C. GRINDERS.

ALL STRUCTURAL STEEL SHALL MILL CERTIFICATION. MILL CERTIFICATION SHALL BE KEPT ON THE JOB SITE FOR EXAMINATION BY THE DESIGN ENGINEER AND THE CITY INSPECTOR.

ALL HIGH STRENGTH BOLTS SHALL HAVE MILL CERTIFICATION. MILL CERTIFICATION SHALL BE KEPT ON THE JOB SITE FOR

O. STEEL THAT HAD BEEN WELDED, CUT OR SCRATCHED IN THE FIELD SHALL BE TOUCHED UP WITH COLD GALVANIZING PAINT.

WELDING INDICATED IN THESE DRAWINGS IS DESIGNED FOR ONE HALF OF ALLOWABLE CODE STRESSES UNLESS SPECIFICALL NOTED "FULL STRESS" AT END OF WELD SYMBOL.

STRENGTH: CONCRETE FOR THE PROJECT SHALL HAVE THE FOLLOWING ULTIMATE COMPRESSIVE STRENGTH AT AGE OF 28 DAYS:

LOCATION STRENGTH WT. SLUMP ADMIXTURE

A. SLAB&FOOTING 3000psi 150pcf 4"

2. INSPECTION: CONCRETE WITH SPECIFIED STRENGTH GREATER THAN 2500psi SHALL BE CONTINUOUSLY INSPECTED DURING PLACEMENT BY A DEPUTY INSPECTOR EMPLOYED BY A TESTING LABORATORY APPROVED BY THE BUILDING DEPT.

REBAR GRADES: REINFORCING STEEL SHALL BE CLEAN PREFORMED BARS CONFORMING TO ASTM A615 AS FOLLOWS

& SMALLER BARS.....GRADE 40 #5 & LARGER BARS.....GRADE 60 ALL BARS AT CAISSON FOOTING...GRADE 60

FOR HUMAN CONSUMPTION.

CEMENT: FOUNDATIONS & SLABS: TYPE V, LOW ALKALI, CONFORMING TO ASTM C-150. PIER/CAISSON FOOTINGS: TYPE V, LOW ALKALI, CONFORMING

AGGREGATE: USED IN THE CONCRETE SHALL CONFORM TO ASTM C-33. USE ONLY AGGREGATES KNOWN NOT TO CAUSE EXCESSIVE SHRILMAGE. THE MAXIMUM SIZE AGGREGATE IN CONCRETE WORK SHALL BE THE FOLLOWING:

FOUNDATIONS & SLABS 9" OR LESS: 3/4" GRAVEL B PIFR/CAISSON FOOTING: 1" GRAVEL. WATER: SHALL BE CLEAN AND FREE FROM DELETERIOUS AMOUNT

OF ACIDS, ALKALIS, ORGANIC MATERIALS AND SHALL BE SUITABLE

MIXING: PREPARATION OF CONCRETE SHALL CONFORM TO ASTM C-94. NO MORE THAN 90 MINUTES SHALL ELAPSE BETWEEN CONCRETE BATCHING AND CONCRETE PLACEMENT UNLESS APPROVED BY A TESTING AGENCY.

8. SEGREGATION OF AGGREGATES: CONCRETE SHALL NOT BE FLOPPED THROUGH REINFORCING STEEL (AS IN WALLS, COLUMNS, CAISSON, AND DROP CAPITALS) SO AS TO CAUSE SEGREACTION OF AGGREGAT USE HOPPERS CHUTES TRUNKS OR PUMP HOSE SO THAT THE FREE UNCONFINED FALL OF CONCRETE SHALL NOT EXCEED 5 FT.

SPLICES OF REINFORCING STEEL SHALL BE LAPPED A MINIMUM OF 3 DIAMETERS AND SECURELY WIRED TOGETHER. SPLICES OF ADJACENT REINFORCING BARS SHALL BE STAGGERED WHEREVER POSSIBLE.

10 REAR CLEARANCE: MINIMUM COVERAGE FOR JOISTS, BEAMS, GIRDERS AND COLUMNS SHALL BE TO FACE OF STIRRUPS OR TIES. UNLESS OTHERWISE NOTED, CONCRETE COVERAGE FOR REINFORCING BARS TO FACE OF BAR SHALL BE AS FOLLOWS:

A CONCRETE IN CONTACT WITH FARTH, UNFORMED 3 B. CONCRETE IN CONTACT WITH EARTH, FORMED WALL, EXTERIOR FACE 1-1/2" D. WALL, INTERIOR FACE STRUCTURAL SLABS 3/4" 3/4" F. JOISTS G. BEAMS, GIRDERS & COLUMNS 1-1/2"

11. PENETRATIONS: NO SLEEVES OR CHASES SHALL BE PLACED IN BEAMS, SLABS, WALLS AND COLUMNS, EXCEPT THOSE SHOWN ON THE PLANS. CONTRACTOR SHALL OBTAIN PRIOR APPROVAL FOR INSTALLATIONS OF ANY ADDITIONAL SLEEVES OR CHASES. ALL PLUMBING, ELECTRICAL AND MECHANICAL OPENINGS SHALL BE SLEEVES CORING IS NOT ALLOWED UNLESS PRIOR APPROVAL IS OBTAINED FROM THE STRUCTURAL ENGINEER.

12. EMBEDDED ITEMS: CONDUIT PLACED IN A CONCRETE SLAB SHALL NOT HAVE AN OUTSIDE DIAMETER GREATER THAN 1/4 THE THICKNESS OF THE SLAB. CONDUIT SHALL NOT BE EMBBEDED IN A SLAB THAT IS LESS THAN 3-1/2" THICK, UNLESS SLAB IS LOCALLY THICKENED. MINIMUM CLEAR DISTANCE BETWEEN COUNDUITS SHALL BE SIX INCHES

13. ANCHORING: ALL ANCHOR BOLTS, REINFORCING STEEL, DOWELS, INSERTS, ETC., SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRETE. NO REPOSITIONING DURING CONCRETE POUR

14 CURING SLARS SHALL BE SPRAYED WITH A CURING COMPOUND CONTING: SLAGS SHALL BE SHARTED WITH A CONTINO COMPOUND IMMEDIATELY AFTER FINISHING. CURING COMPOUNDS USED ON CONCRETE WHERE TILE OR FLOOR COVERING IS TO BE BONDED TO THE CONCRETE SURFACE SHALL BE APPROVED BY THE TILE OR FLOOR COVERING MANUFACTURER. KEEP SLAB WET FOR 7 DAY

15. CONSOLIDATION: ALL CONCRETE SHALL BE VIBRATED AS IT BEING PLACED WITH ELECTRICALLY OPERATED VIBRATING EQUIPMENT.

1 ALL FRAMING LUMBER FOR 4X AND LARGER BEAMS SHALL BE NO. GRADE DOUGLAS FIR., S45, UNLESS NOTED OTHERWISE ON THE

2. ALL FRAMING LUMBER FOR 2X RAFTERS AND JOISTS SHALL BE NO.2 GRADE DOUGLAS FIR. S45. UNLESS NOTED OTHERWISE ON DRAWINGS

LUMBER SHALL BE NO. 2 OR STD & BTR GRADE DOUGLAS FIR, S45. 2X4 STUD WALLS SHALL BE D.F. STANDARD & BTR. 4. ALL BEAMS, JOISTS AND RAFTERS SHALL BE INSTALLED WITH CROWN

3. STRIPPING, BLOCKING, BACKING AND OTHER NON-STRUCTURAL

5. ROOF PLYWOOD SHALL MATCH EXISTING PLYWOOD SHEATHING WITH A SPAN INDEX RATIO 32/16, EDGE NAIL WITHBO AT 6" O.C. UNLESS NOTED OTHERWISE ON PLANS. FGIELD NAIL WITH 8d AT 12" O.C.

6. PLYWOOD SHEETS SHALL BE LAID WITH THE FACE GRAIN PERPINDICULAR TO SUPPORTS AND WITH THE EDGES STAGGERED. UNLESS NOTED OTHERWISE ON THE PLANS.

7. PLYWOOD SHALL BE GRADE MARKED BY DFPA, TECO, OR PTL AND SHALL CONFORM TO PS 1-83.

 THE MAXIMUM MOISTURE CONTENT OF ALL LUMBER SHALL NOT EXCEED 24% AT THE TIME OF INSTALLATION. 9 MINIMUM NAILING SHALL COMPLY WITH TABLE 23-1-0 OF BUILDING

10. ALL BOLTS SHALL HAVE STANDARD CUT WASHERS UNDER HEADS AND/OR NUTS WHERE IN CONTACT WITH WOOD.

CODE. ALL NAILS SHALL BE COMMON WIRE NAILS.

11. LAG BOLTS SHALL BE SCREWED INTO PLACE, NOT DRIVEN. LAG BOLTS SHALL BE INSTALLED IN PRE-DRILLED HOLES WITH A DIAMETER EQUAL TO 75% DIAMETER OF BOLT. 12. CONNECTORS: ALL SHEET METAL FRAMING CONNECTORS SHOWN IN

THE PLANS SHALL BE STRONG CONNECTORS AS MANUFACTURED BY THE SAMSON COMPANY. SUBSTITUTIONS MAY BE MADE WHEN APPROVED BY THE STRUCTURAL ENGINEER. 13 ALL LUMBER EXPOSED TO WEATHER OR IN CONTACT WITH MASONRY OR CONCRETE SHALL BE WOLMANIZED PRESSURE TREATED LUMBER OR A NATURALLY DECAY RESISTANT LUMBER SUCH AS REDWOOD OR

14. ALASKAN YELLOW CEDAR GLUE-LAMINATED BEAMS

A. LUMBER SPECIES: ALASKAN YELLOW CEDAR (A.C.) CONFORMING

STRENGTH PROPERTIES:

STRENGTH PROPERTIES:

Fb BOTTOM FIBER BENDING STRESS 2000ps; MIN.

Fb TOP FIBER BENDING STRESS 1000ps; MIN.

EV SHEAR STRESS 1900si MIN. Fo COMPRESSION STRESS PERPENDICULAR TO GRAIN 560psi MIN. E MODULUS ELASTICITY 1400ksi MIN. C. CAMBER TO RADIUS OF 1600' U.O.N.

D. ALL GLB'S SHALL BE FABRICATED WITH EXTERIOR GLUE. E. MANUFACTURE OF GLB'S SHALL CONFORM TO THE UBC.

GLU-LAM MATERIAL SHALL BE IN ACCORDANCE WITH ANSI/AITC A190.1 AND ASTM D3737.



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APPROVALS ANITA JEN 05/28/14 90% CDS DATE

DATE 100% CDS

100% CDS WITH STRUCTURALS DATE

ONSTRUCTION

DATE SITE ACQUISITION

> PROJECT NAME MICROWAVE UPGRADE

DATE

POWDER MOUNTAIN FA NUMBER

12836251 LITAH HICHWAY 158 EDEN, UTAH 84310

DRAWING DATES 05/28/14 90% CD REVIEW (P1-B1)

SHEET TITLE

SPECIFICATIONS AND NOTES

1 (E) AT&T LEASE AREA WITHIN (E) AT&T TOWERS COMPOUND; SEE SHEET A-1.1.





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SITE NAME POWDER MOUNTAIN

12836251

DRAWING DATES 05/28/14 90% CD REVIEW (P1-B1)

SHEET TITLE

OVERALL SITE PLAN

A-0



0 50'100' 200' 1"=200'



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SITE NAME

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FA NUMBER
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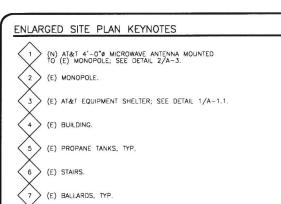
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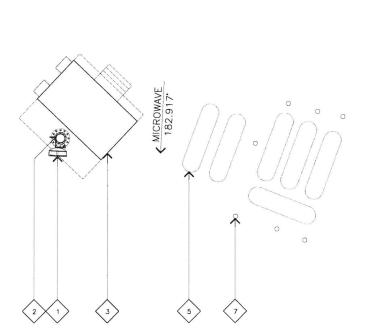
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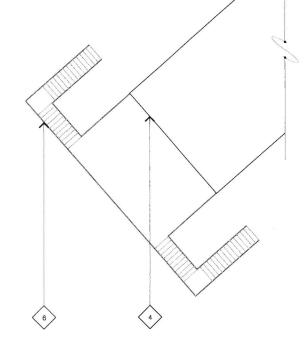
OVERALL SITE PLAN

A-1

SCALE: 1"=30' 0 15' 30'







ENLARGED SITE PLAN GENERAL NOTES

- A. OTHER CARRIER ANTENNAS NOT SHOWN FOR CLARITY
- B. GROUND ALL (N) EQUIPMENT AND COAX PER DETAIL 4/A-3.
- C. OTHER CARRIER ANTENNAS NOT SHOWN FOR CLARITY.
- D. CONTRACTOR TO PROVIDE ALL LABOR TO INSTALL COAX, RETS AND
- E. OPTIMA TO PROVIDE ALL COAX, CONNECTORS, ANCILLARY EQUIPMENT (INCLUDING WEATHER STRIPPING, GROUND KITS, ETC.).
- F. CONTRACTOR TO COLOR CODE ALL COAX. COLORED BANDS OF TAPE ON COAX IDENTIFY SECTOR, FREQUENCY, TECHNOLOGY, AND TRANSMIT GROUP AS FOLLOWS ON ALL COAX MODIFIED OR INSTALLED ONLY.
- G. WHEN ANTENNA LINES ARE DIPLEXED, THE COLOR CODE OF THE HIGHEST FREQUENCY PREVAILS (I.E. UMTS DIPLEXED WITH TDMA SHOULD
- H. ALL ANTENNAS AND ANTENNA CABLE SHALL BE FURNISHED BY OPTIMA INC. AND INSTALLED BY ANTENNA INSTALLATION CONTRACTOR.
- PRIOR TO PLACEMENT OF ANTENNA POLE MOUNTS, THE CONTRACTOR SHALL VERIFY THAT THE AZIMUTH AND DIMENSIONS SHOWN ON THE PLANS MATCH ACTUAL FIELD CONDITIONS. ALLOWABLE TOLERANCE: HORIZONTAL ALIGNMENT = ±5; VERTICAL ALIGNMENT = ±1".
- ANTENNA INSTALLATION CONTRACTOR SHALL PROVIDE ALL CONDUIT, CABLE TRAY, GROUNDS, ETC. FOR COMPLETE INSTALLATION OF ANTENNAS AND CABLES SHOWN AND INTENDED AS REQUIRED FOR A COMPLETE OPERATING SYSTEM IN ACCORDANCE WITH OPTIMA INC. STANDARDS.

- K. IN NO CASE SHALL THERE BE ANY MORE THAN TWO (2) 90' TURNS (OR EQUIVALENT) IN ANY CONTINUOUS LENGTH OF CONDUIT BETWEEN PULL BOXES OR SIMILAR FEATURES.
- L. ANTENNA CONDUIT SHALL ONLY INCLUDE FACTORY-MADE LARGE RADIUS SWEEPS AT ALL CHANGES IN DIRECTION. SWEEP RADIUS SHALL BE 18" MINIMUM ABOVE GROUND AND 36" MINIMUM BELOW GROUND.
- M. CONDUIT SHALL BE 3"# MINIMUM. ALL UNDERGROUND CONDUIT SHALL BE SCHEDULE 40 PVC. ALL EXPOSED CONDUIT ABOVE GRADE LEVEL SHALL BE IMC OR RIGID CALVANIZED. ALL EXPOSED CONDUIT PROTECTED IN A BUILDING OR ON A ROOF SHALL BE EMT OR UV STABILIZED PAINTED SCHEDULE BO PVC.
- N. IN HIGH TRAFFIC AREAS OR WHERE SUSCEPTIBLE TO DAMAGE CONTRACTOR SHALL PROVIDE FORMED 14 CA, GALVANIZED SHEET METAL COVER OVER COAXIAL CABLE ROUTES. WHERE CABLE IS RUN ON THE WALL, ATTACH UNISTRUT TO WALL AND COVER WITH 14 CA, GALVANIZED FORMED SHEET METAL COVER OR MATERIAL AS DIRECTED BY OPTIMA INC. CONSTRUCTION MANAGER.
- O. VERIFY ROUTE AND LENGTH OF CABLE PRIOR TO CUTTING. ADJUST INDICATED ROUTE AS REQUIRED TO CLEAR (E) EQUIPMENT AT FACILITIES.
- P. MAXIMUM LENGTH OF 7/8" COAX CABLE SHALL BE 140'-0". MAXIMUM LENGTH OF 1-1/4" COAX CABLE SHALL BE 190'-0". MAXIMUM LENGTH OF 1-5/8" COAX CABLE SHALL BE 235'-0".
- Q. VERIFY MODEL NUMBERS OF ANTENNAS WITH OPTIMA INC. SERVICES.
- R. THE CONTRACTOR SHALL PROVIDE TESTING OF ANTENNAS AND SHALL PROVIDE DOCUMENTATION TO THE OPTIMA INC. PROJECT MANAGER.
- S. GENERAL CONTRACTOR TO VERIFY ALL TORQUE TOLERANCES PER THE MANUFACTURERS SPECIFICATIONS AND RECOMMENDATIONS.



EQUIPMENT PLAN KEYNOTES

(E) AT&T EQUIPMENT SHELTER.

(E) AT&T EXTERIOR MOUNTED HVAC UNITS.

(E) AT&T CABLE ENTRY PORT WITH (E) AND (N) CABLES FROM EQUIPMENT TO ANTENNAS.

(E) AT&T MAIN GROUND BUS BAR (MGB).

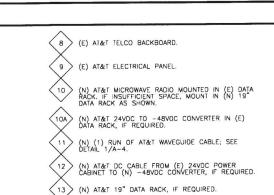
(E) AT&T EQUIPMENT CABINETS, TYP.

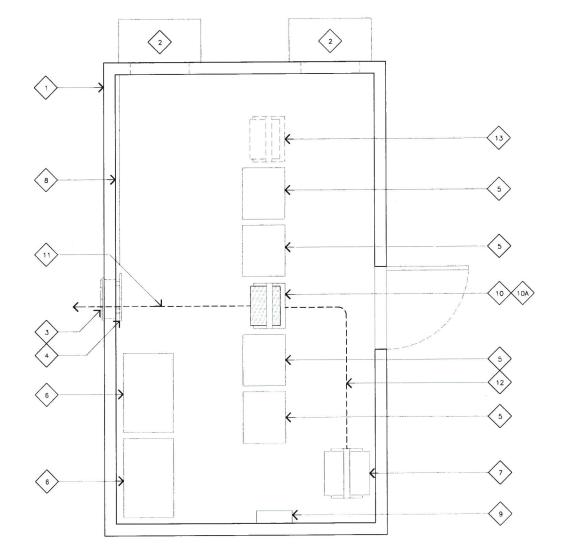
(6) (E) AT&T BATTERIES.

7 (E) AT&T DC POWER CABINET.

GENERAL KEYNOTES

A. VERIFY EQUIPMENT LAYOUT, SITE NOT YET BUILT.







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CONSTRUCTION	DATE

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DATE

SITE NAME

SITE ACQUISITION

POWDER MOUNTAIN FA NUMBER 12836251

UTAH HIGHWAY 158 EDEN, UTAH 84310

DRAWING DATES

05/28/14 90% CD REVIEW (P1-B1) 06/04/14 100% FINAL CDS (P1-B2)

SHEET TITLE

ENLARGED SITE AND EQUIPMENT PLAN

A-1.1

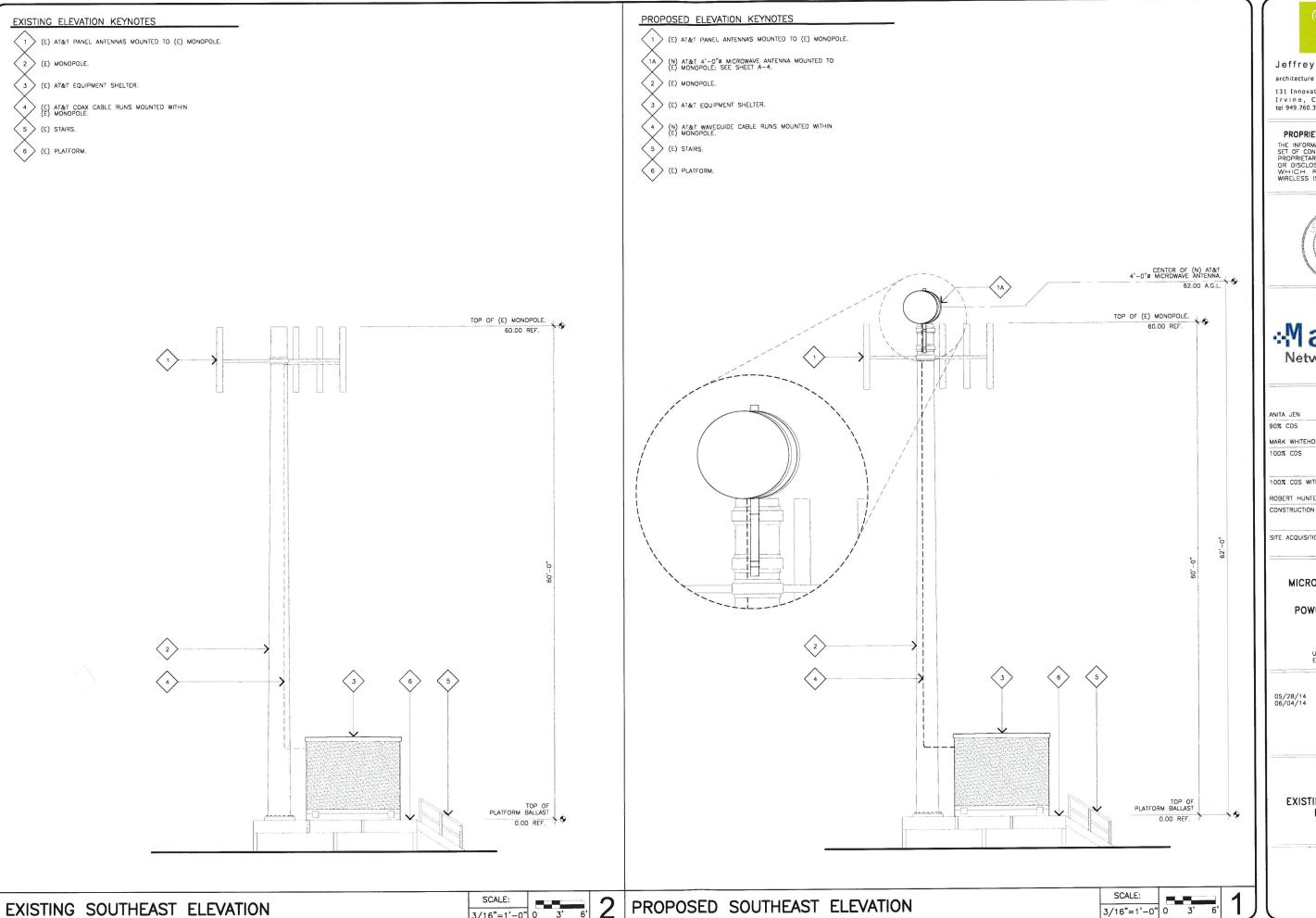
ENLARGED SITE PLAN

3/32"=1'-0" 0 3' 6'

12'

EQUIPMENT PLAN

1/2"=1'-0" 0





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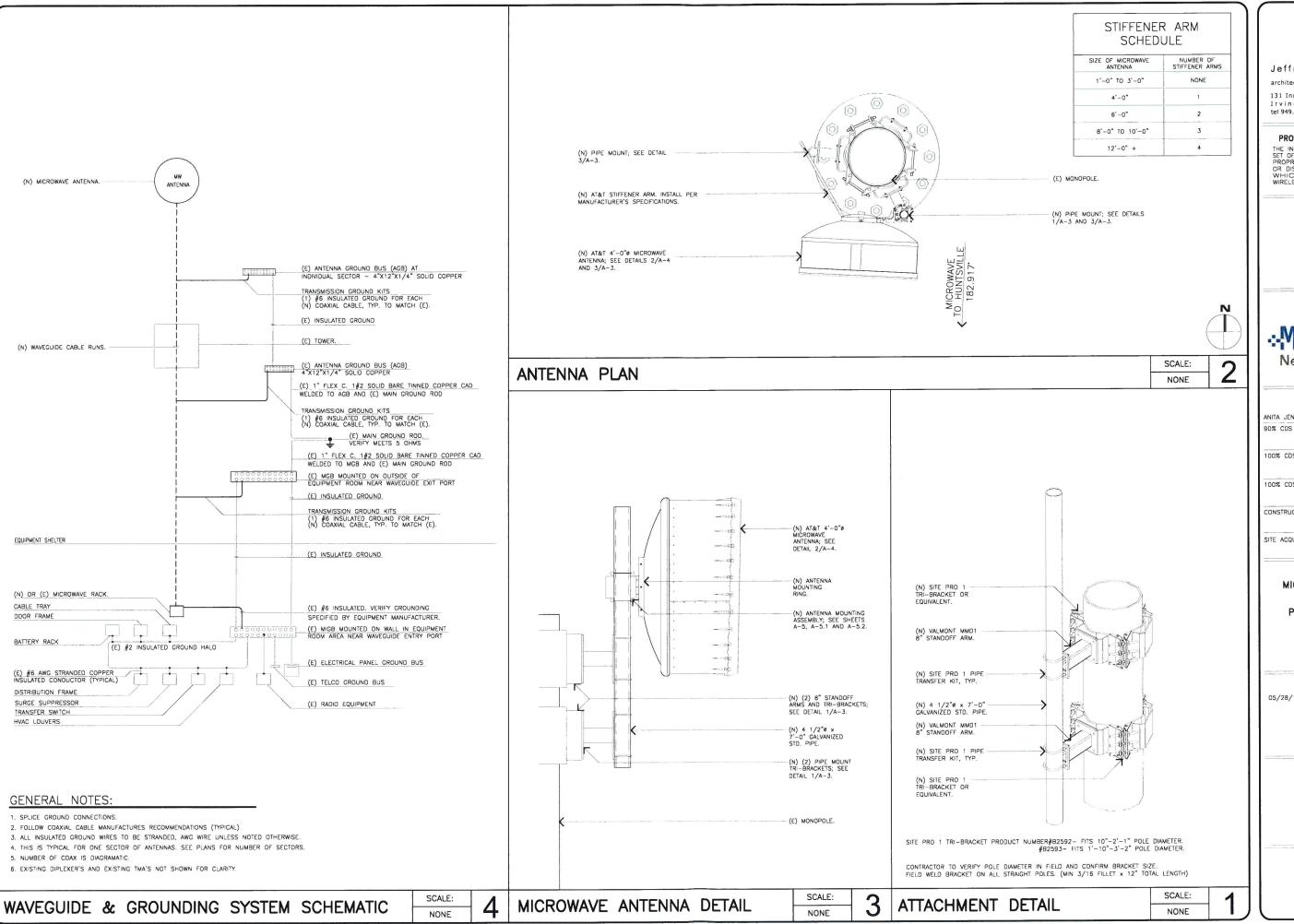
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EXISTING & PROPOSED **ELEVATIONS**

A-2



gr

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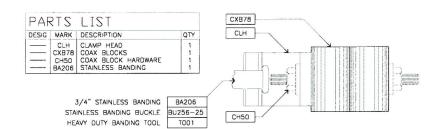
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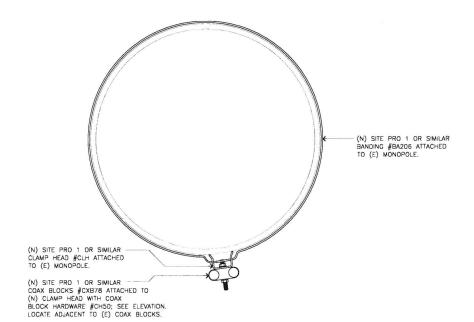
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ANTENNA DETAI	LS

A-3



ELEVATION



PLAN VIEW



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DATE

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05/28/14 90% CD REVIEW (P1-B1) 06/04/14 100% FINAL CDS (P1-B2)

SHEET TITLE

DETAILS

A-3.1

SITE PRO 1 COAX SUPPORT KIT

SCALE: NONE

NOT USED

SCALE: NONE

1

Product Specifications









VHIPX4-11W

1.2 m | 4 ft ValuLine® High Performance Low Profile Antenna

General Specifications

VHLPX - ValuLine® High Performance Low Profile Antenna, Antenna Type Diameter, nominal

Mechanical Specifications

Fine Azimuth Adjustment ±15° Fine Elevation Adjustment ±15°

Mounting Pipe Diameter 115 mm | 4.5 in Net Weight 40 kg | 88 lb

1 inboard Side Struts, Included Side Struts, Optional 1 inboard Wind Velocity Operational 200 km/h | 124 mph

Wind Velocity Survival Rating 250 km/h | 155 mph

Wind Forces At Wind Velocity Survival Rating

Axial Force (FA) 5326 N | 1197 lbf 2638 N | 593 lbf Side Force (FS) Twisting Moment (MT) 2370 Nem Weight with 1/2 in (12 mm) Radial Ice 75 kg | 165 lb 310 mm | 12 in Zcg with 1/2 in (12 mm) Radial Ice Zcg without Ice 210 mm | 8 in

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FW90

EW90, HELIAX® Standard Elliptical Waveguide



CHARACTERISTICS

Construction Materials

Jacket Material Corrugated copper Conductor Material Black Jacket Color

Dimensions

334.0 L/km | 3.6 ft 3/kft Cable Volume 0.48 kg/m | 0.32 lb/ft Cable Weight 33.50 mm | 1.32 in Diameter Over Jacket (E Plane) 20.30 mm | 0.80 in Diameter Over Jacket (H Plane)

Environmental Specifications

-40 °C to +60 °C (-40 °F to +140 °F) Installation Temperature -55 °C to +85 °C (-67 °F to +185 °F) Operating Temperature -70 °C to +85 °C (-94 °F to +185 °F) Storage Temperature

General Specifications

HELIAX®

Mechanical Specifications

6.00 °/m | 2.00 °/ft Minimum Bend Radius, Multiple Bends (E Plane) 180.00 mm | 7.00 in Minimum Bend Radius, Multiple Bends (H Plane) 480.00 mm | 19.00 in Minimum Bend Radius, Single Bend (E Plane) 150.00 mm | 6.00 in

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05/29/14 CONSTRUCTION

SITE ACQUISITION DATE

MICROWAVE UPGRADE

POWDER MOUNTAIN

12836251

DRAWING DATES

05/28/14 90% CD REVIEW (P1-B1) 06/04/14 100% FINAL CDS (P1-B2)

SHEET TITLE

SPECIFICATIONS

Installation Instructions

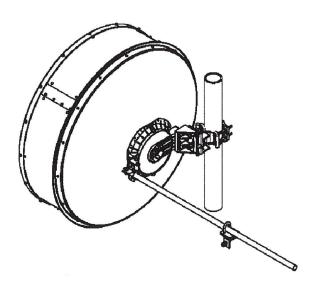
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Title Line 2

Bulletin 7628916

Version 03 Status RE Rev D Model Version 01 Status RE Rev B

This document is for the following: VHLP(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 tower pipe of diameter 115mm The mount provides adjustment ranges of ±15° fine elevation and ±180° (±15° 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

Andrew Solutions

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⊹MasTec **Network Solutions**

the control of the	APPROVALS	
ANITA JEN		05/28/14
90% CDS		DATE
MARK WHITEHO	USE	06/04/14
100% CDS		DATE
100% CDS WIT	H STRUCTURALS	DATE
ROBERT HUNTE	R	05/29/14
CONSTRUCTION		DATE
SITE ACQUISITION		DATE
MICRO	PROJECT NAME WAVE UPG	RADE
POW	SITE NAME DER MOUN FA NUMBER 12836251	TAIN
	TAH HIGHWAY 15 DEN, UTAH 8431	
05/28/14 06/04/14	DRAWING DATES 90% CD REVIEW 100% FINAL CDS	(P1-B1) 5 (P1-B2)

SHEET TITLE

ANTENNA MOUNTING DETAILS

Remove braces and G2 M10 X 50 SHCS ST ST Apply grease to surface G3 M10 X 40 SHCS ST ST 38Nm ± 5%

SECTION 8
MOUNT ATTACHMENT AND ALIGNMENT

7628916 INSTALLATION INSTRUCTIONS

SECTION 8
MOUNT ATTACHMENT AND ALIGNMENT

7628916

131 Innovation Drive; Suite 100
Irvine, California 9 2 6 1 7
tel 949.760.3929 | fax 949.760.3931

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THE INFORMATION CONTAINED IN THE



Jeffrey Rome | ASSOCIATES

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*MasTec

APPROVALS

ANITA JEN 05/28/14

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MARK WHITEHOUSE 06/04/14

100% CDS DATE

100% CDS WITH STRUCTURALS DATE

ROBERT HUNTER 05/29/14

CONSTRUCTION DATE

SITE ACQUISITION DATE

PROJECT NAME
MICROWAVE UPGRADE
SITE NAME

POWDER MOUNTAIN
FA NUMBER
12836251

UTAH HIGHWAY 158

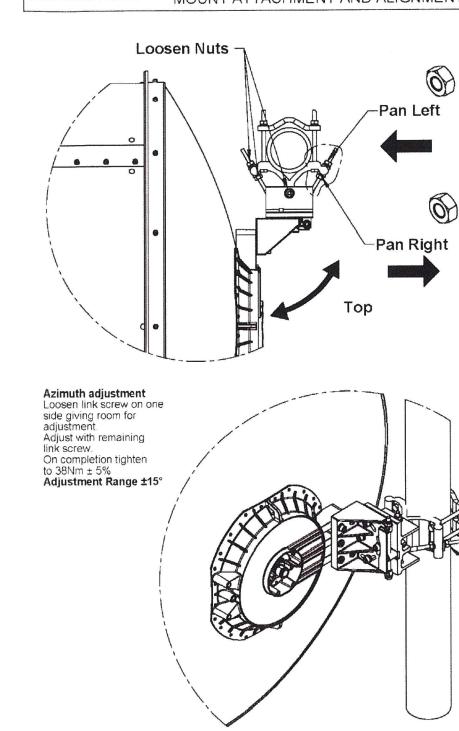
DRAWING DATES

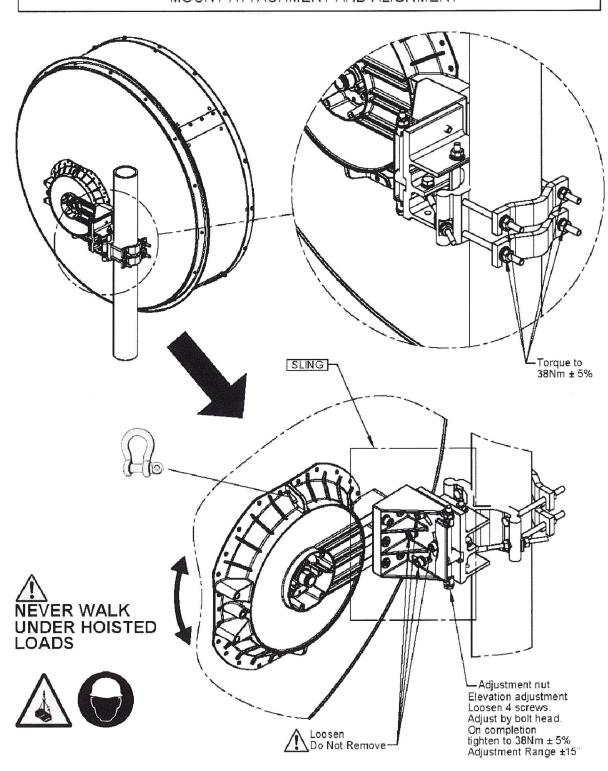
05/28/14 90% CD REVIEW (P1-B1) 100% FINAL CDS (P1-B2)

SHEET TITLE

ANTENNA MOUNTING DETAILS

A-5.1





SCALE: NONE

Torque to

38Nm ±5%

(4 places)

INSTALLATION INSTRUCTIONS

SECTION 8
MOUNT ATTACHMENT AND ALIGNMENT

7628916

INSTALLATION INSTRUCTIONS

SECTION 8
MOUNT ATTACHMENT AND ALIGNMENT

7628916

STAMP

SET ARCHY

JEFFREY L. ROME

NO. 4549982-0301

Jeffrey Rome | ASSOCIATES architecture | telecommunications 131 Innovation Drive; Suite 100 Irvine, California 92617 tel 949.760.3929 | fax 949.760.3931

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ROBERT HUNTER 05/29/14

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SITE ACQUISITION DATE

PROJECT NAME
MICROWAVE UPGRADE

POWDER MOUNTAIN

12836251

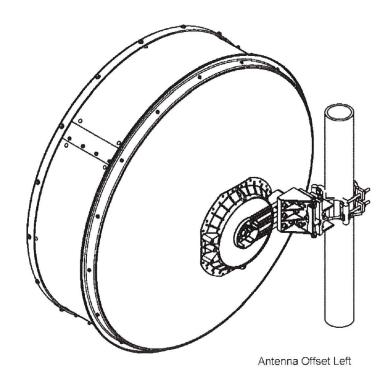
DRAWING DATES

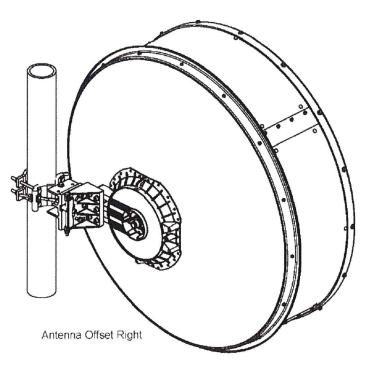
05/28/14 90% CD REVIEW (P1-B1) 06/04/14 100% FINAL CDS (P1-B2)

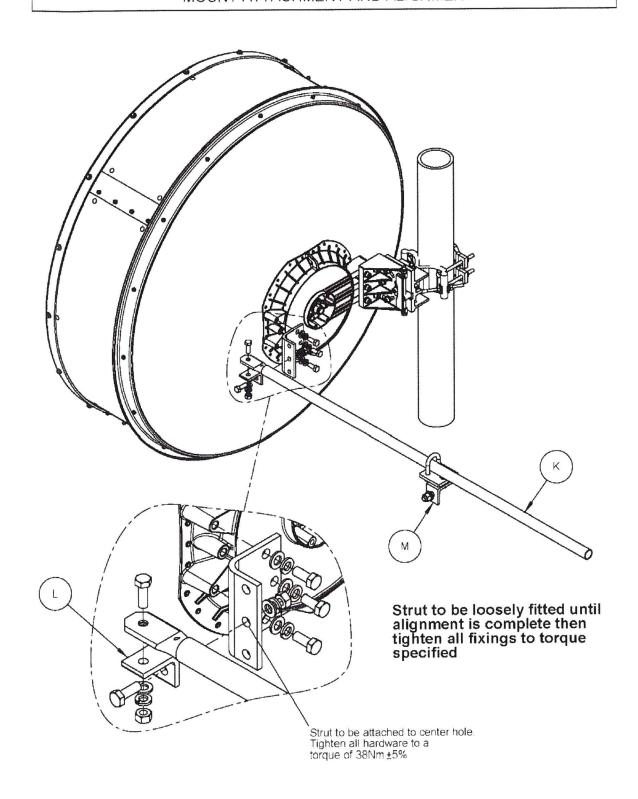
SHEET TITLE

ANTENNA MOUNTING DETAILS

A-5.2







NONE

Microwave Path Data Sheet COMSEARCH

Page 1 of 1

19700 Janelia Farm Boulevard, Ashburn, VA, 20147 (858)232-4372 www.comsearch.com

PCN Date: 12/30/2013

Call Sign

Job Number: 131230COMSSL06

New Path RCN Number: 13123029

POWDER MTN UT HUNTSVILLE UT

WEBER

41 °22' 10.3" N

111 °45' 53.5" W

2714.85 / 8907.0

VHLPX4-11W

18.29 / 60.0

TEOH62

40M0D7W

0.001

Nominal

0.0/6.3

Alcatel-Lucent USA, Inc. 95MPR11-H128F40-214

9500 MPT-HL Fixed Modulation

29.0

63.5

-36.8

1 CH DIG 213900.000

128 QAM

Coordinated Maximum

40.8 / 1.50 / -6.24

182.917

77186A

Administrative Information City/County /WEBER Status / License Basis

Engineering Proposal / PRIMARY OPERATION

Licensee Code Licensee Name

CF -- Point-to-Point Microwave, Common Carrier

New Cingular Wireless PCS LLC-Utah New Cingular Wireless PCS LLC-Utah FXO -- Fixed

10.932 / 6.793

Latitude (NAD 83) 41 ° 16' 18.4" N Longitude (NAD 83) 111 °46' 17.4" W 1520.65 / 4989.0

Ground Elevation (m/ft-AMSL) Antenna Structure Registration #

Radio Service / Station Class

Site Information

Path Azimuth (°)

2.912 Path Length (km / miles)

Transmit Antenna 77186A Manufacturer Commscope Model

VHLPX4-11W Gain(dBi) / Beamwidth(*) / Tilt(*) 40.8 / 1.50 / 6.17 Centerline (m / ft - AGL) 24.38 / 80.0

Same As Transmit

Manufacturer Model

Receive Antenna

Gain (dBi) / Beamwidth (°) Centerline (m / ft - AGL)

Diversity Receive Antenna

Manufacturer

Gain (dBi) / Beamwidth (*) Centerline (m / ft - AGL)

Radio Information TEOH62 Manufacturer Alcatel-Lucent USA, Inc. 95MPR11-H128F40-214 Model Model Description 9500 MPT-HL Fixed Modulation Emission Designator / Modulation 40M0D7W 1 CH DIG 213900.000 Loading

Stability (%) 0.001 Nominal

Power (dBm) Received Level (dBm) EIRP (dBm)

Fixed Loss: Tx / Common (dB) Free Space Loss (dB)

0.0 / 6.9

134.2

29.0

62.9

-36.8

128 QAM

Coordinated Maximum

Transmit Frequencies (MHz) 10895.0000V(5) 11385.0000V(5)

MW Unk (Site A-Site Z) lew or Existing Link Engineering Proposal / PRIMARY OPERATION Site ID USID Coordinate Address Affected Sites

WES-MW-94775

FA CODE

SITE NAME

PCN Required (Y/N)	ү	Compliance Assessment Required (Y/N)	Y	Field Study Required	Υ
Circultry (Transport) Require	ment	TDM for GSM and Ethernet for UMTS/	'LTE		
Scope of Work (SOW) Si	ummary	NEW MICROWAVE PATH. Install a	ntenna, r	adio and waveguide.	

MW Data Sheet

New

1/8/2014

HUNTSVILLE - POWDER MOUNTAIN

Drain Site (A) Info

UTSLKC-HUNTSVILLE

11186

10088492

41° 16′ 16.4" N

111° 46′ 17.4" W

(Check One)

7305 EAST 730 NORTH

HUNTSVILLE

MW Engineer Name

Lat

EDEN

UTAH HIGHWAY 158

Contact #

		Detailed Design informa	ation		
		Site A	Site Z		
	Existing	Change to	Existing	Change to	
Dish Model	NA	VHLPX4-11W-6GR	NA	VHLPX4-11W-6GR	
Dish Size	NA	4 ft	NA	4 ft	
# of Dishes	NA	1	NA	1	
Azimuth	NA	2.912°	NA	182.917°	
Rad Center	NA	80 ft	NA	60 ft	
Frequency	NA	10895.0000∨	NA	11385.0000V	
Radio Type	NA	95MPR11-H128F40-214	NA	95MPR11-H128F40-214	
# of Radios	NA	1	NA	1	
Cable Type	NA	EW90	NA	EW90	
Cable length (ft)	NA	120 ft	NA	100 ft	
Transport Drop (DS1, ENET, DS3, DS3c)	NA	DS1/ENET	NA	DS1/ENET	



Jeffrey Rome | ASSOCIATES

architecture | telecommunications

at&t

Arnel Madela

972-965-1824

Existing

End Site (Z) Info

UTSLKC-POWDER MOUNTAIN

47502

12836251

41° 22′ 10.30" N

111° 45′ 53.50" W

131 Innovation Drive; Suite 100 Irvine, California 92617 tel 949.760.3929 | fax 949.760.3931

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Network Solutions

ANITA JEN 90% CDS 100% CDS	DATE
100% CDS	DATE
100% CDS WITH STRUCTURALS	DATE
CONSTRUCTION	DATE
SITE ACQUISITION	DATE

FA NUMBER 12836251

DRAWING DATES 05/28/14 90% CD REVIEW (P1-B1)

SHEET TITLE

PCN AND MICROWAVE DATA SHEET

A-6