PROJECT INDEX

UNION TELEPHONE COMPANY 850 N HIGHWAY 414 PO BOX 160

MOUNTAIN VIEW, WY 82939

CONTACT: RYAN SCHMIDT PHONE: (307) 780-4031

EMAIL: rschmidt@unionwireless.com

CONTACT: ANGELA JONES PHONE: (307) 782-4045 EMAIL: anjones@unionwireless.com

CONTACT: JUSTIN HAWS PHONE: (307) 747-7054 EMAIL: ihaws@unionwireless.com

PLANS NOT VERIFIED BY A LICENSED SURVEYOR

PROPERTY OWNER

OWER COMPANY

P.O. BOX 217

CONTACT:

CRAIG. CO 81626

TELEPHONE COMPAN

MICROWAVE RADIO

T1 TITLE SHEET

C1 SITE PLAN

C2

C3

R1

SBA TOWERS II LLC 5900 BROKEN SOUND PKWY 2ND FL STEAMBOAT SPRINGS, CO 80487

YAMPA VALLEY ELECTRIC ASSOCIATION

SITE CONNECTED TO UNION NETWORK VIA

DRAWING INDEX

PANEL ANTENNA ELEVATION

MICROWAVE ELEVATION

OLD EQUIPMENT BUILDING

NEW EQUIPMENT BUILDING

JUMPER LINE DIAGRAMS

RAN CABLING

E1 PANEL SCHEDULE

PHONE: (888) 950-7483

3715 EAST US HWY 40

PHONE: (970) 824-6593

Union Wireless

HAYDEN

COMMUNICATION SITE

6985 HOMESTEADER LANE 2 HAYDEN, ROUTT COUNTY, COLORADO

140' LATTICE SELF SUPPORTING TOWER MW UPGRADES TO CEDAR MOUNTAIN AND OAK CREEK COAL. BUILDING RELOCATION AND POWER UPGRADE

VICINITY MAP

LEGAL DESCRIPTION SE¹/₄ OF NE¹/₄ SECTION 31 T7N R88W 6THPM 40°31'15.9"N 107°17'48 2"W 7285' AMSL TAKE HWY 40 WEST TO HAYDEN. ABOUT THE MIDDLE OF TOWN, TAKE A RIGHT (NORTH) ON WALNUT STREET. AT THE "T" GO LEFT (WEST) AND CONTINUE UP THE MOUNTAIN APPROXIMATELY 3.3 MILES TO THE TOP. AT THE "Y" TAKE A LEFT ON CR78 AND FOLLOW FOR 0.2 MILES. TURN LEFT (SOUTH) ON HOMESTEADER LN AND FOLLOW ROAD TO SITE. TIN METAL BUILDING WITH A SMALL TOWER ON EACH SIDE OF BUILDING В

PLEASE MAKE SURE THE FM TRANSMITTER

SPECIAL CONSIDERATIONS: "EMERGENCY 911 WILL CONTACT JACKSON COUNTY

SHERIFF. PIERSON COMMUNICATIONS HAS

DRAWINGS ISSUED BY

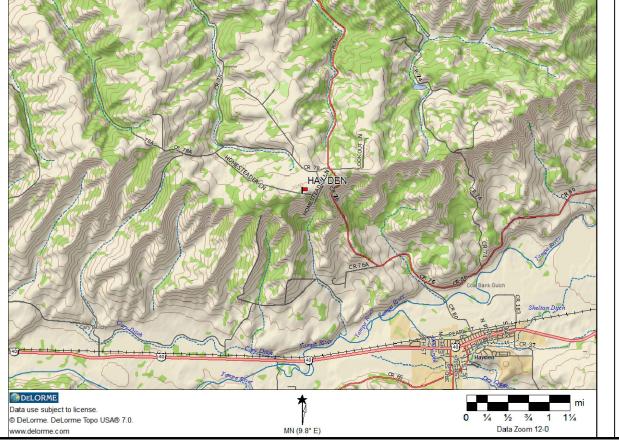
TWO-WAY RADIO EQUIPMENT IN SAME

COMMENCEMENT

BUILDING."

TURN DOWN IS SCHEDULED PRIOR TO WORK

SITE DESCRIPTION



PROJECT NOTES

- 1. WORK ALREADY COMPLETE:
 - a. PARTITION WALL, HVAC, AND MAIN AC ELECTRICAL EQUIPMENT INSTALLED (EXCLUDING DC PLANT), FLOOR PAINTED.
- 2. NEW A-PORT & ICE BRIDGE;
- 3. ELECTRONICS SHELTER INSTALLS;
- 4. TOWER MODIFICATIONS:
- 5. NEW MW PATH TO CEDAR MOUNTAIN -
- 6. NEW MW PATH TO OAK CREEK COAL -CUT;
- 7. RETIREMENTS:
 - a. RETIRE THE OLD CEDAR MOUNTAIN MW DISH AND ASSOCIATED LINES AS WELL AS THE LPD 7905 PANEL ANTENNA AND 7/8" LINES FROM THE TOWER.
- b. RETIRE THE OLD ELECTRONICS FROM THE OLD EQUIPMENT SHELTER.
- c. PLEASE PERFORM AN AUDIT OF THE **EXISTING CPRS SIMPLY STATING** WHAT IS PRESENT ON SITE TODAY ON THE EXISTING EXCEL SHEET.

850 N. HIGHWAY 414 PO BOX 160 MOUNTAIN VIEW, WY 82939

THE INFORMATION CONTAINED IN THIS DOCUMENT IS PROPRIETARY. ANY USE OR BY UNION TELEPHONE COMPANY IS STRICTLY

CURRENT REV	DATE
F	09/25/2015

ALYSSA BLAIR/ANGELA JONES

MATTHEW E. FISHER

APPROVED FOR CONSTRUCTION

2 DECEMBER 2015

ROJECT NAME

HAYDEN

PROJECT ADDRESS

6985 HOMESTEADER LANE 2 AYDEN, ROUTT COUNTY, COLORADO

HEET TITLE:

TITLE SHEET

SHEET NUMBER

T1

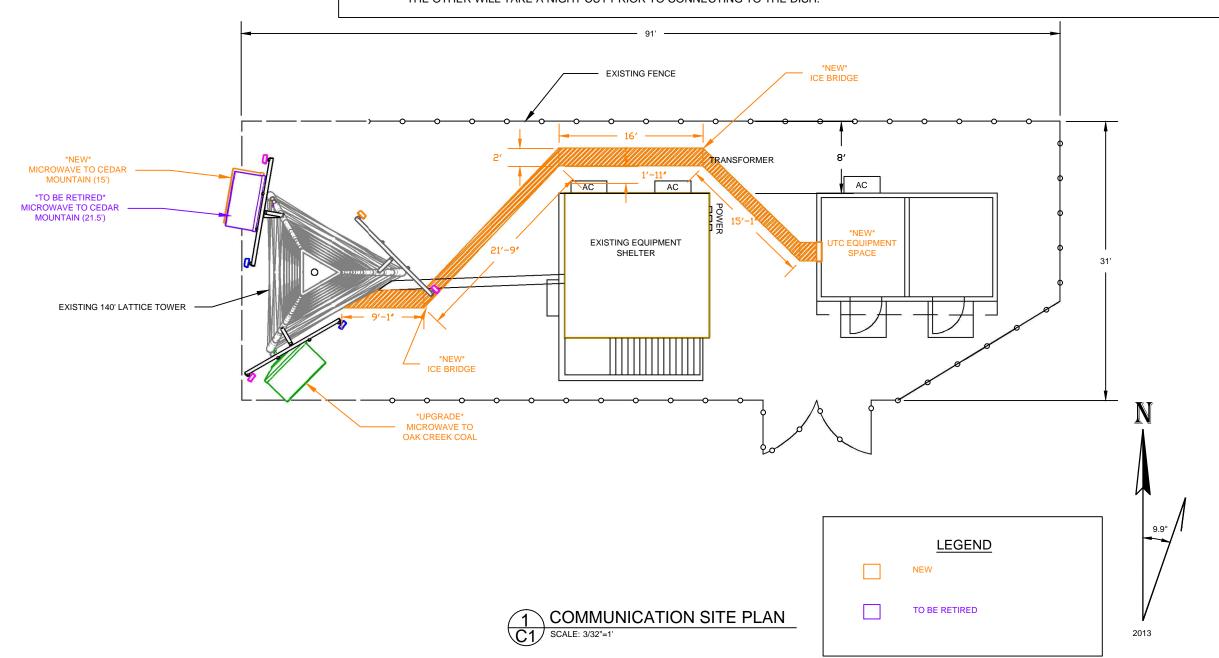
ANGELA JONES

PROJECT ENGINEER

2 DECEMBER 2015

GENERAL NOTES

- 1. WORK ALREADY COMPLETE:
 - a. PARTITION WALL, HVAC, AND MAIN AC ELECTRICAL EQUIPMENT INSTALLED (EXCLUDING DC PLANT), FLOOR PAINTED.
- 2. NEW A-PORT & ICE BRIDGE;
 - a. INSTALL A NEW ICE BRIDGE BETWEEN THE ENTRY BOOT AND THE TOWER. THE NEW WAVEGUIDE LADDER WILL BE INSTALLED AROUND THE OLD SHELTER AND BACK TO THE TOWER. PLEASE CONNECT THE DIRECT BURIAL PIPES TO THE GROUND SYSTEM VIA PIPE CLAMP.
 - b. USE THE EXISTING ENTRY BOOT FOR THE NEW LINES AND MW. THIS WILL REQUIRE GROUNDING WITH GROUND BARS AND BFDS FOR THE COAX.
- 4. TOWER MODIFICATIONS;
 - a. REPLACE THE X-SECTOR LPD 7905 ANTENNA WITH A NEW KATHREIN 800 10634 ANTENNA.
 - b. INSTALL (6X) NEW COAXIAL CABLES FROM THE PANEL ANTENNAS TO THE A-PORT. A, B
 - c. INSTALL NEW DISH AND (1X) LINE OF EW-90 AT THE 15' RAD CENTER UNDER THE EXISTING CEDAR MOUNTAIN DISH.
 - d. INSTALL (2X) LINES OF EW-63 TO THE EXISTING OAK CREEK COAL DISH. PLEASE NOTE THAT ONE POLARIZATION WILL BE UTILIZED INITIALLY, THE OTHER WILL TAKE A NIGHT CUT PRIOR TO CONNECTING TO THE DISH.





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DESIGNER

ALYSSA BLAIR/ANGELA JONES

REVIEWE

MATTHEW E. FISHER

APPROVED FOR CONSTRUCTION

2 DECEMBER 2015

PROJECT NAME

HAYDEN

PROJECT ADDRESS:

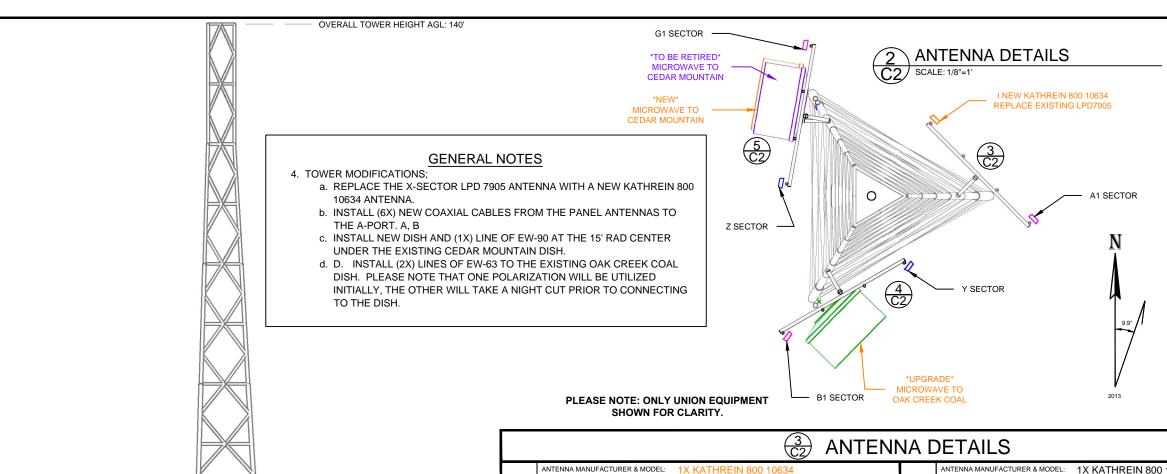
6985 HOMESTEADER LANE 2 HAYDEN, ROUTT COUNTY, COLORADO

SHEET TITLE:

PLAN VIEW

SHEET NUMBER:

C1



		(3) ANTEN	NA [DETAILS								
	ANTENNA MANUFACTURER & MODEL:	1X KATHREIN 800 10634		ANTENNA MANUFACTURER & MODEL:	1X KATHREIN 800 10634							
	AZIMUTH:	50° MAG (60° TRUE)		AZIMUTH:	50° MAG (60° TRUE)							
צ	HEIGHT ABOVE CONCRETE LEVEL:	55'	1	HEIGHT ABOVE CONCRETE LEVEL:	55'							
2	TECHNOLOGY 690-960 MHz PORTS:	GSM/850 / SHARED RRU	CTO	TECHNOLOGY 690-960 MHZ PORTS:	UMTS/850 / SHARED RRU							
)	DOWNTILT 690-960 MHZ PORTS:	0° MECH, 3° ELEC	┨ 입	DOWNTILT 690-960 MHZ PORTS:	0° MECH, 3° ELEC							
5	COAX SPECS 690-960 MHZ PORTS:	(1X) AVA5-50A, 1 CAPPED PORT	ာ	COAX SPECS 690-960 MHZ PORTS:	(1X) AVA5-50A, 1 CAPPED PORT							
<	TECHNOLOGY 1710-2170 MHz PORTS:	NA] ₹	TECHNOLOGY 1710-2170 MHz PORTS:	NA							
	DOWNTILT 1710-2170 MHz PORTS:	NA		DOWNTILT 1710-2170 MHz PORTS:	NA							
	COAX SPECS 1710-2170 MHz PORTS:	NA		COAX SPECS 1710-2170 MHz PORTS:	NA							
4 ANTENNA DETAILS												
	ANTENNA MANUFACTURER & MODEL:	1X KATHREIN 800 10634		ANTENNA MANUFACTURER & MODEL:	1X KATHREIN 800 10634							
	AZIMUTH:	130° MAG (140° TRUE)		AZIMUTH:	130° MAG (140° TRUE)							
ś	HEIGHT ABOVE CONCRETE LEVEL:	53'] 兴	HEIGHT ABOVE CONCRETE LEVEL:	53'							
2	TECHNOLOGY 690-960 MHZ PORTS:	GSM/850 / SHARED RRU	<u> </u>	TECHNOLOGY 690-960 MHZ PORTS:	UMTS/850 / SHARED RRU							
)	DOWNTILT 690-960 MHZ PORTS:	0° MECH, 3° ELEC	╗	DOWNTILT 690-960 MHZ PORTS:	0° MECH, 3° ELEC							
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-	TECHNOLOGY 1710-2170 MHz PORTS:	NA	<u> </u>	TECHNOLOGY 1710-2170 MHz PORTS:	NA							
	DOWNTILT 1710-2170 MHz PORTS:	NA		DOWNTILT 1710-2170 MHz PORTS:	NA							
	COAX SPECS 1710-2170 MHz PORTS:	NA		COAX SPECS 1710-2170 MHz PORTS:	NA							
		5 ANTEN	NA [DETAILS								
	ANTENNA MANUFACTURER & MODEL:	1X KATHREIN 800 10634		ANTENNA MANUFACTURER & MODEL:	1X KATHREIN 800 10634							
	AZIMUTH:	270° MAG (280° TRUE)	_	AZIMUTH:	270° MAG (280° TRUE)							
_	HEIGHT ABOVE CONCRETE LEVEL:	52'	A N	HEIGHT ABOVE CONCRETE LEVEL:	52'							
)	TECHNOLOGY 690-960 MHZ PORTS:	GSM/850 / SHARED RRU] 5	TECHNOLOGY 690-960 MHZ PORTS:	UMTS/850 / SHARED RRU							
-)	DOWNTILT 690-960 MHZ PORTS:	0° MECH, 2° ELEC	ш	DOWNTILT 690-960 MHZ PORTS:	0° MECH, 5° ELEC							
SE	COAX SPECS 690-960 MHZ PORTS:	(1X) AVA5-50A, 1 CAPPED PORT	s	COAX SPECS 690-960 MHZ PORTS:	(1X) AVA5-50A, 1 CAPPED PORT							
1	TECHNOLOGY 1710-2170 MHz PORTS:	NA] <u>6</u>	TECHNOLOGY 1710-2170 MHz PORTS:	NA							
	DOWNTILT 1710-2170 MHz PORTS:	NA		DOWNTILT 1710-2170 MHz PORTS:	NA							
	COAX SPECS 1710-2170 MHz PORTS:	NA		COAX SPECS 1710-2170 MHz PORTS:	NA							



850 N. HIGHWAY 414 PO BOX 160 MOUNTAIN VIEW, WY 82939

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CURRENT REV	DATE
F	09/25/2015

ESIGNER:

ALYSSA BLAIR/ANGELA JONES

REVIEWE

MATTHEW E. FISHER

APPROVED FOR CONSTRUCTION

2 DECEMBER 2015

PROJECT NAME:

HAYDEN

PROJECT ADDRESS:

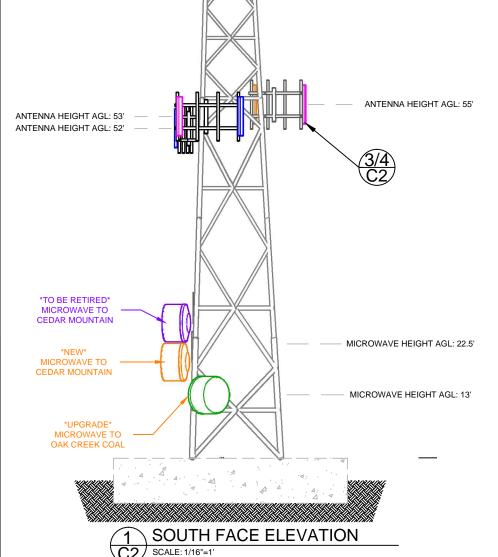
6985 HOMESTEADER LANE 2 HAYDEN, ROUTT COUNTY, COLORADO

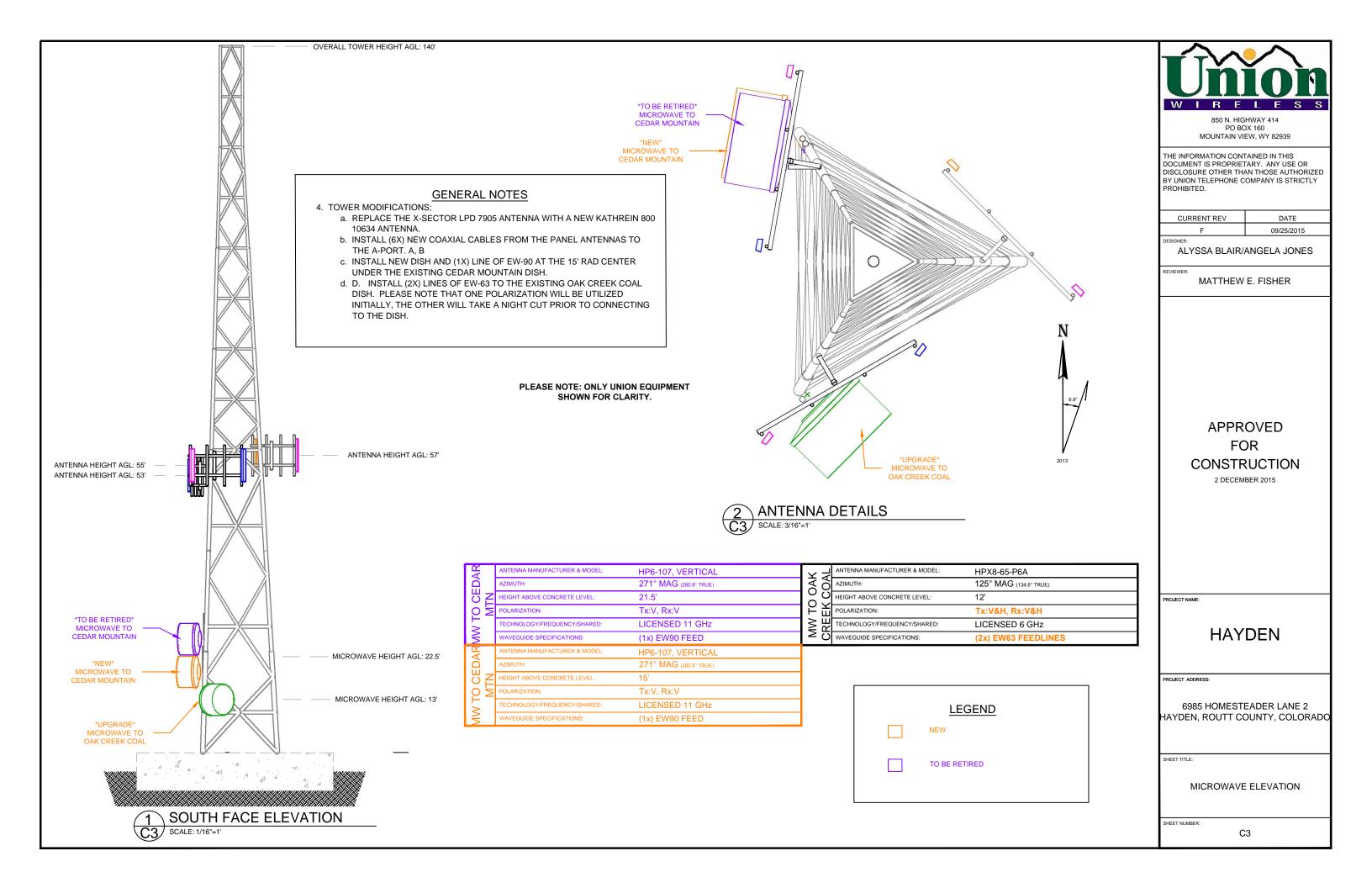
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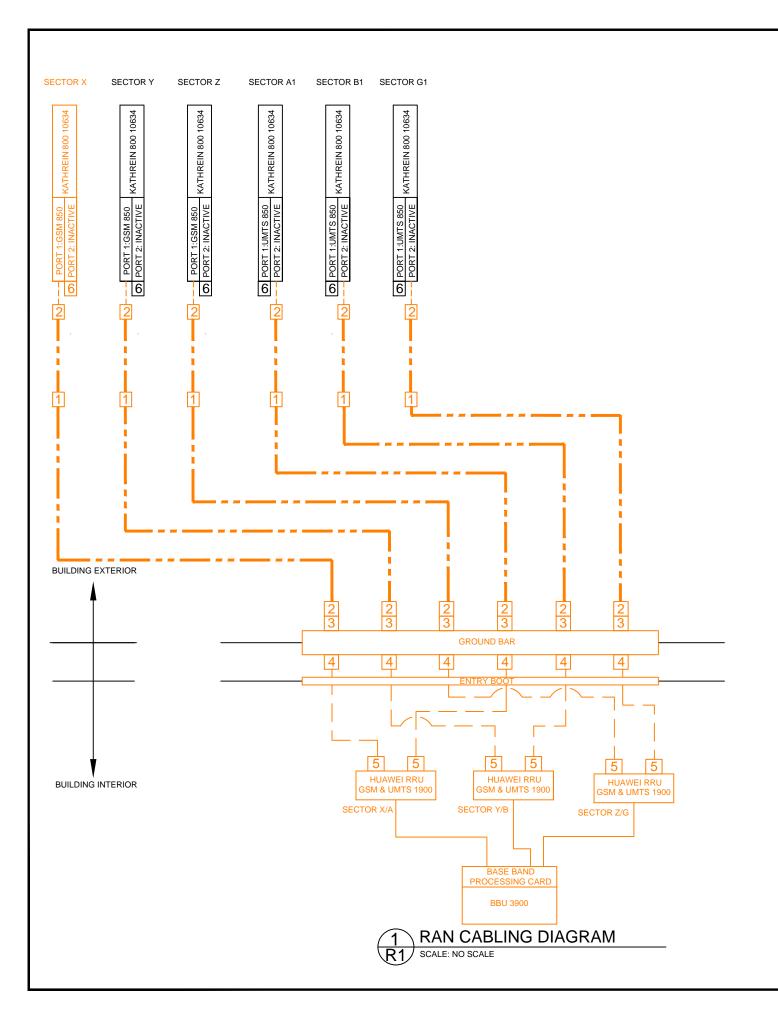
PANEL ANTENNA ELEVATION

SHEET NUMBER:

C2







GENERAL NOTES

- 1. WORK ALREADY COMPLETE:
 - a. PARTITION WALL, HVAC, AND MAIN AC ELECTRICAL EQUIPMENT INSTALLED (EXCLUDING DC PLANT), FLOOR PAINTED.
- 2. NEW A-PORT & ICE BRIDGE;
 - a. INSTALL A NEW ICE BRIDGE BETWEEN THE ENTRY BOOT AND THE TOWER. THE NEW WAVEGUIDE LADDER WILL BE INSTALLED AROUND THE OLD SHELTER AND BACK TO THE TOWER. PLEASE CONNECT THE DIRECT BURIAL PIPES TO THE GROUND SYSTEM VIA PIPE
 - b. USE THE EXISTING ENTRY BOOT FOR THE NEW LINES AND MW. THIS WILL REQUIRE GROUNDING WITH GROUND BARS AND BFDS FOR THE COAX.
- 3. ELECTRONICS SHELTER INSTALLS;
- a. INSTALL CABLE LADDERS.
- b. INSTALL DC PLANT PER THE CDS. WIRE IN AC POWER TO THE DC PLANT.
- c. INSTALL RACKS, HUAWEI CABINET, AND TELLABS 8611 ROUTERS.
 d. INSTALL NEW MW RADIOS FOR THE UPGRADED PATHS THIS SHOULD INCLUDE RACK-MOUNTED ODU'S AND (2X) MODEMS PER HOP.
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 - a. REPLACE THE X-SECTOR LPD 7905 ANTENNA WITH A NEW KATHREIN 800 10634 ANTENNA. b. INSTALL (6X) NEW COAXIAL CABLES FROM THE PANEL ANTENNAS TO THE A-PORT. A, B
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- 5. NEW MW PATH TO CEDAR MOUNTAIN CUT;
 - a. [MAINTENANCE] CUT UTC-OWNED AC POWER FROM OLD EQUIPMENT BUILDING.
 - b. COMMISSION NEW RADIO ON NEW DISH.
 - c. CUT TRAFFIC TO NEW RADIO ON VERTICAL RF CHANNEL INITIALLY.
- d. DECOMMISSION & REMOVE THE NLITE-L MICROWAVE RADIO. RETURN TO WH.
- e. COMMISSION FULL PATH.

 6. NEW MW PATH TO OAK CREEK COAL CUT;
- a. CUT TRAFFIC TO NEW RADIO ON VERTICAL RF CHANNEL.
- b. DECOMMISSION & REMOVE THE NLITE-L MICROWAVE RADIO FROM THE HORIZONTAL RF
- c. REMOVE EW63 OLD BUILDING.
- d. CONFIGURE TRAFFIC TO RUN ON BOTH VERTICAL & HORIZONTAL RF CHANNELS.
- e. COMMISSION FULL PATH.
- 7. RETIREMENTS;
 - a. RETIRE THE OLD CEDAR MOUNTAIN MW DISH AND ASSOCIATED LINES AS WELL AS THE LPD 7905 PANEL ANTENNA AND 7/8" LINES FROM THE TOWER.
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 - c. PLEASE PERFORM AN AUDIT OF THE EXISTING CPRS SIMPLY STATING WHAT IS PRESENT ON SITE TODAY ON THE EXISTING EXCEL SHEET.

	LEGEND L4A-PDMDM-3 (1X) 7/8" DIAMETER COAX LDF4-50A 1/2" COAX RRU FIBER
1	1-5/8"" GROUND KIT
2	UXP-DF-78
3	RLSA-Z61-60HK566-S00N1
4	JMA UXP-DM-12
5	JMA UXP-DRA-12
6	ANTENNA CAP
	NEW



850 N. HIGHWAY 414 PO BOX 160 MOUNTAIN VIEW, WY 82939

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CURRENT REV	DATE						
F	09/25/2015						

ALYSSA BLAIR/ANGELA JONES

MATTHEW E. FISHER

APPROVED FOR CONSTRUCTION

2 DECEMBER 2015

PROJECT NAME

HAYDEN

PROJECT ADDRESS:

6985 HOMESTEADER LANE 2 HAYDEN, ROUTT COUNTY, COLORADO

HEET TITLE:

RAN CABLING DIAGRAM

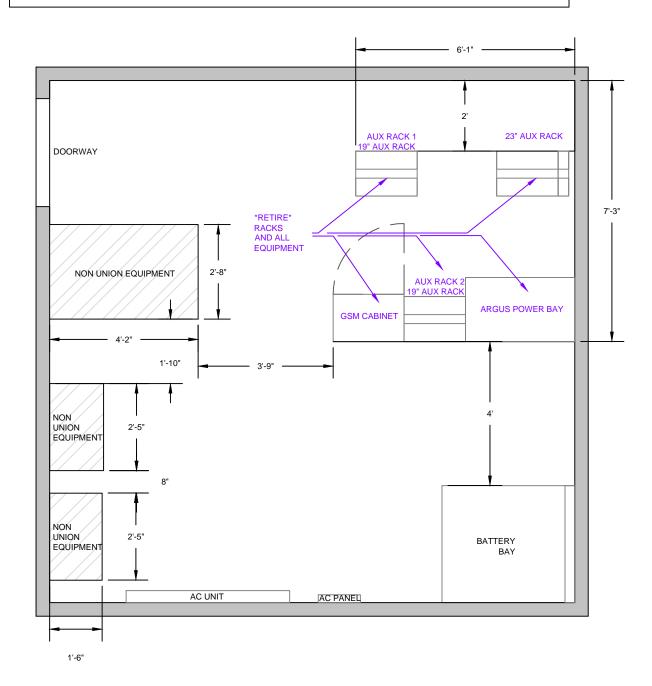
SHEET NUMBER

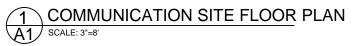
R1

GENERAL NOTES

7. RETIREMENTS;

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CURRENT REV	DATE
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DESIGNER:

ALYSSA BLAIR/ANGELA JONES

REVIEWER:

MATT E. FISHER

APPROVED FOR CONSTRUCTION

2 DECEMBER 2015

PROJECT NAME:

HAYDEN

PROJECT ADDRESS:

6985 HOMESTEADER LANE 2 HAYDEN, ROUTT COUNTY, COLORADO

SHEET TITLE:

OLD EQUIPMENT BUILDING LAYOUT (TO BE RETIRED)

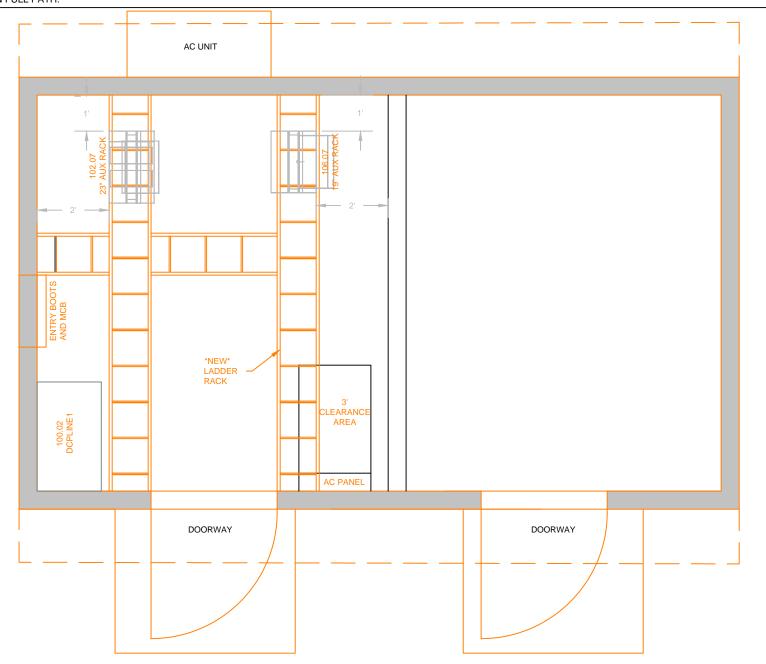
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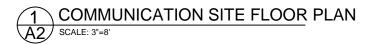
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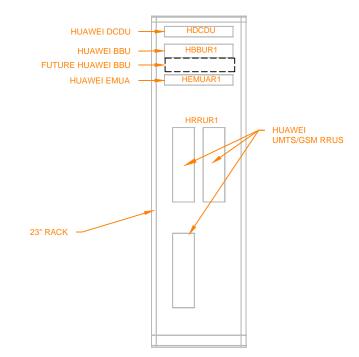


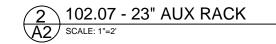
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 - b. COMMISSION NEW RADIO ON NEW DISH.
 - c. CUT TRAFFIC TO NEW RADIO ON VERTICAL RF CHANNEL INITIALLY.
 - d. DECOMMISSION & REMOVE THE NLITE-L MICROWAVE RADIO. RETURN TO WH.
 - e. COMMISSION FULL PATH.

- 6. NEW MW PATH TO OAK CREEK COAL CUT;
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 - g. REMOVE EW63 OLD BUILDING.
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 - i. COMMISSION FULL PATH.

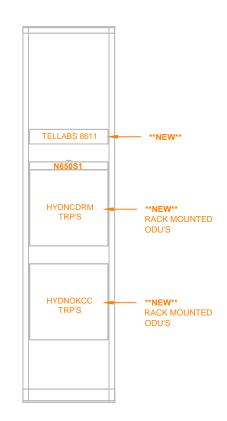


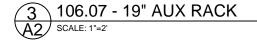






NOTE: PLEASE PROVIDE HEIGHT MEASUEMENTS IN AS BUILTS





NOTE: PLEASE PROVIDE HEIGHT MEASUEMENTS IN AS BUILTS



BY UNION TELEPHONE COMPANY IS STRICTLY PROHIBITED.

 CURRENT REV
 DATE

 B
 09/25/2015

ALYSSA BLAIR/ANGELA JONES

REVIEWER:

MATT E. FISHER

APPROVED FOR CONSTRUCTION

2 DECEMBER 2015

ROJECT NAME:

HAYDEN

PROJECT ADDRESS:

6985 HOMESTEADER LANE 2 HAYDEN, ROUTT COUNTY, COLORADO

SHEET TITLE:

NEW EQUIPMENT BUILDING LAYOUT

SHEET NUMBER:

A2

P1 200A, 120/240VAC, 1Φ/3W													
Load	Volt Amper		Wire	Bre	eaker			Brea	ker	Wire	Volt Amper		Load
	Α	В		Р	Trip			Trip	Р		Α	В	
HVAC	3420		10	2	40	1	2	20	2	12	1680		Lineage Rectifier
		3420	10		40	3	4	20		12		1680	
Lights	560		12	1	20	5	6	20	2	12	1680		Lineage Rectifier
Receptacles		540	12	1	20	7	8	20		12		1680	
Lineage Rectifier	1680		12	2	20	9	10	20	2	12	0		Spare
		1680	12		20	11	12	20	_	12		0	
Lineage Rectifier	1680		12	2	20	13	14	20	2	12	0		Spare
		1680	12		20	15	16	20	_	12		0	
Spare	0		12	2	20	17	18	20	2	12	0		Spare
		0	12		20	19	20	20	_	12		0	
Spare	0		12	2	20	21	22	20	2	12	0		Spare
		0	12	_	20	23	24	20	_	12		0	
Spare	0		12	2	20	25	26	20	2	12	0		Spare
		0	12	_	20	27	28	20		12		0	
Space	-		-	-	-	29	30	-	-	-	-		Space
Space		н	-	-	-	31	32	-	-	-		-	Space
Volt Amperes Per Phase	7340	7320									3360	3360	Volt Amperes Per Phase
						10700	10680						Total Volt Amperes
						89	89						Total Amps Per Phase
							11						Amps x 125%
	122									x 110% for Main			





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CURRENT REV	DATE
А	11/15/15

DESIGNE

ANGELA JONES

REVIEWE

MATTHEW FISHER

APPROVED FOR CONSTRUCTION

2 DECEMBER 2015

PROJECT NAME:

HAYDEN

PROJECT ADDRESS:

6985 HOMESTEADER LANE 2 HAYDEN, ROUTT COUNTY, COLORADO

SHEET TITLE:

PANEL SCHEDULE

SHEET NUMBER:

E1