

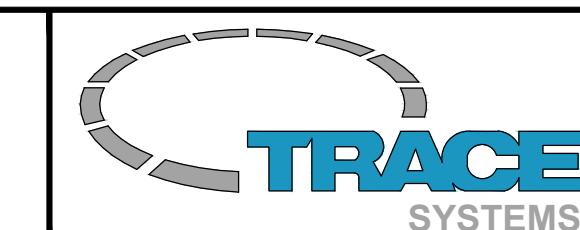


MORALE, WELFARE, AND RECREATION (MWR) GLOBAL INTERNET CAFÉ PROGRAM (ICP)

UNITED ARAB EMIRATES AL MINHAD REDLEG MWR
UAE-LH-N-001
DRAFT INSTALLATION DESIGN PACKAGE

TRACE SYSTEMS PROPRIETARY. THIS DOCUMENT INCLUDES DATA THAT
SHALL NOT BE DISCLOSED OUTSIDE THE GOVERNMENT AND SHALL NOT
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PURPOSE OTHER THAN TO MONITOR THIS CONTRACT

REVISIONS:			
NO:	DATE:	BY:	DESCRIPTION:
A	00/00/00	WRW	REV. NO. 1



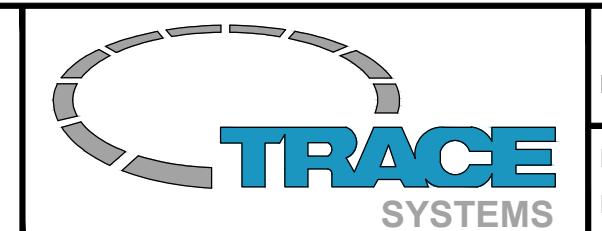
PROJECT: MWR DRAWING PACKAGE	DRAWN BY: WINSTON R. WILBECK	DATE: 3/13/17	SHEET NUMBER 01
DRAWING TITLE: COVER SHEET	REVIEWED BY: MWR TEAM	SCALE: NOT TO SCALE	

DRAWING INDEX

SHEET NUMBER	DRAWING DISCRIPTION
01	COVER SHEET
02	DRAWING INDEX
03	MWR OVERALL ARCHITECTURE
04	LARGE WIRELESS HIGH LEVEL
05	GENERIC SITE DEPICTION INTERCONNECT
06	DETAILED SITE DEPICTION INTERCONNECT
07	LARGE WIRELESS INTERCONNECTS 1
08	LARGE WIRELESS INTERCONNECTS 2
09	LARGE WIRELESS INTERCONNECTS 3
10	LARGE WIRELESS INTERCONNECTS 4
11	LARGE WIRELESS SITE IP SPACE
12	LARGE WIRELESS FLOOR PLAN
13	LARGE WIRELESS RACK ELEVATIONS
14	DETAILS/APPENDIX

TRACE SYSTEMS PROPRIETARY. THIS DOCUMENT INCLUDES DATA THAT SHALL NOT BE DISCLOSED OUTSIDE THE GOVERNMENT AND SHALL NOT BE DUPLICATED, USED, OR DISCLOSED--IN WHOLE OR IN PART--FOR ANY PURPOSE OTHER THAN TO MONITOR THIS CONTRACT

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▲ 00/00/00	WRW	REV. NO. 1	



PROJECT:
MWR DRAWING PACKAGE

DRAWN BY:
WINSTON R. WILBECK

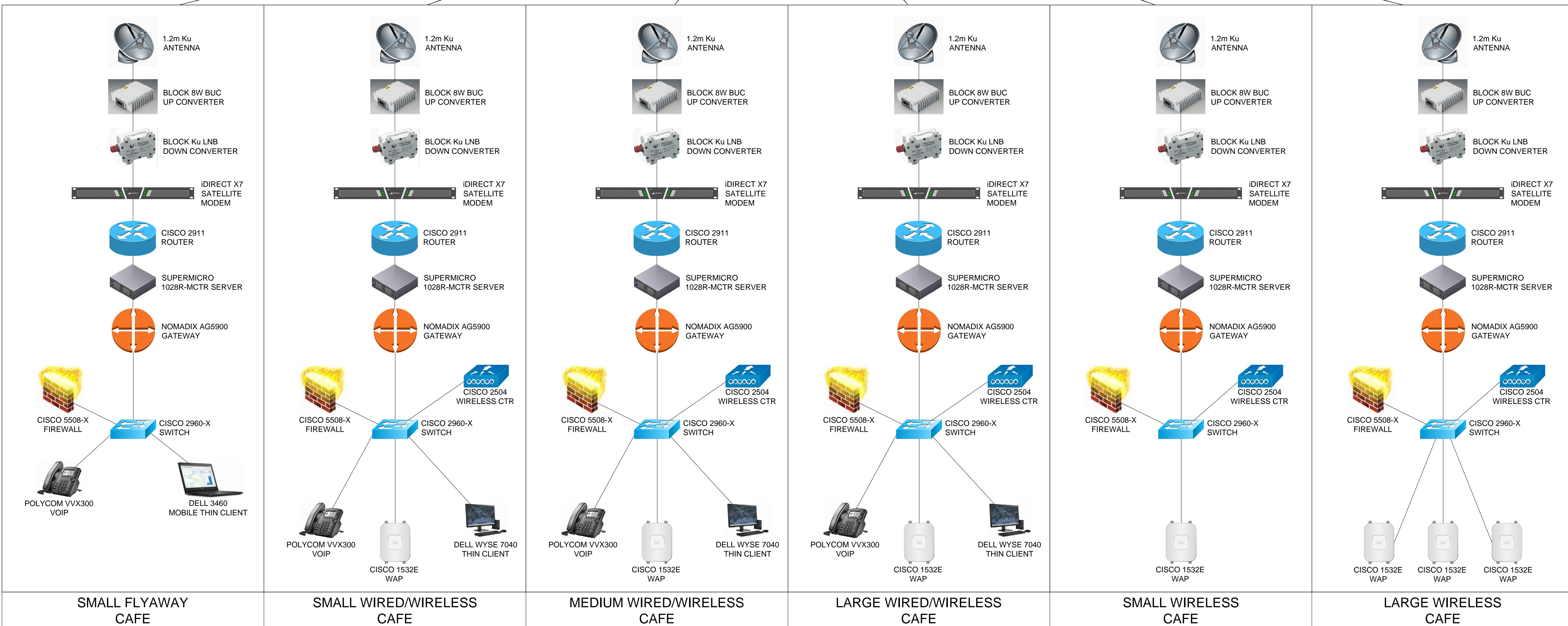
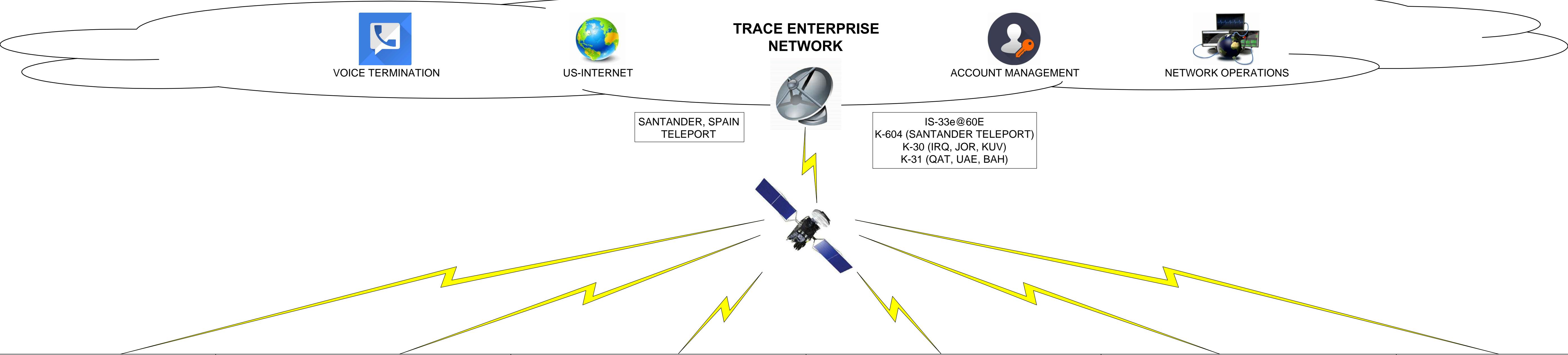
DATE:
3/13/17

SHEET
NUMBER
02

DRAWING TITLE:
DRAWING INDEX

REVIEWED BY:
MWR TEAM

SCALE:
NOT TO SCALE

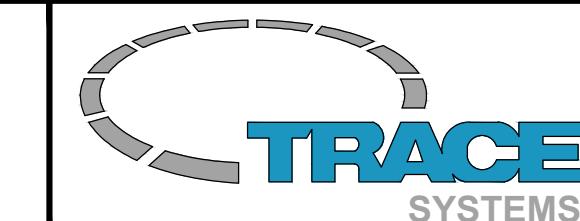


MWR OVERALL ARCHITECTURE

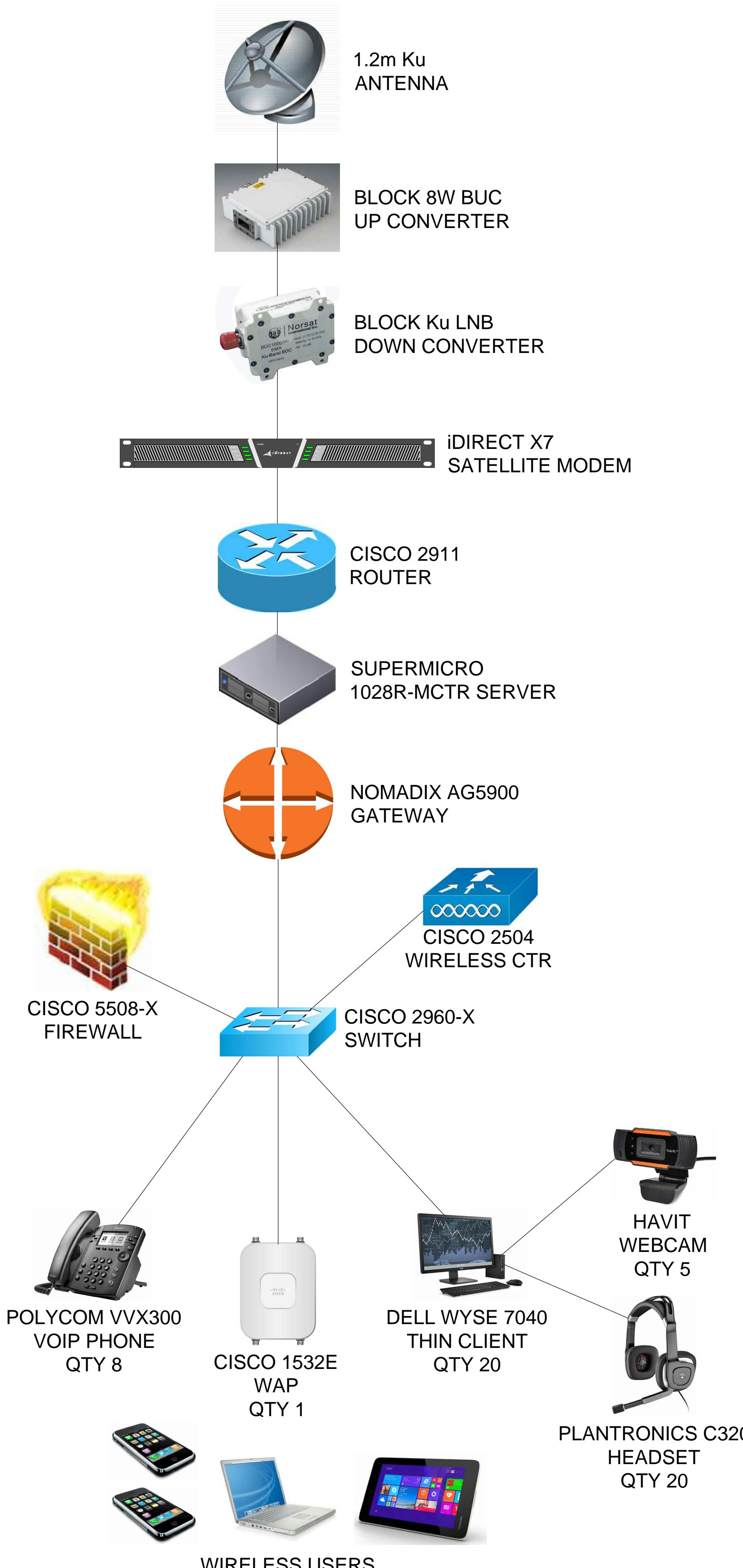
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TRACE SYSTEMS PROPRIETARY. THIS DOCUMENT INCLUDES DATA THAT SHALL NOT BE DISCLOSED OUTSIDE THE GOVERNMENT AND SHALL NOT BE DUPLICATED, USED, OR DISCLOSED--IN WHOLE OR IN PART--FOR ANY PURPOSE OTHER THAN TO MONITOR THIS CONTRACT

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NO:	DATE:	BY:
00/00/00	WRW	REV. NO. 1



PROJECT:
MWR DRAWING PACKAGE
DRAWN BY:
WINSTON R. WILBECK
DRAWING TITLE:
MWR OVERALL ARCHITECTURE
REVIEWED BY:
MWR TEAM
SCALE:
NOT TO SCALE



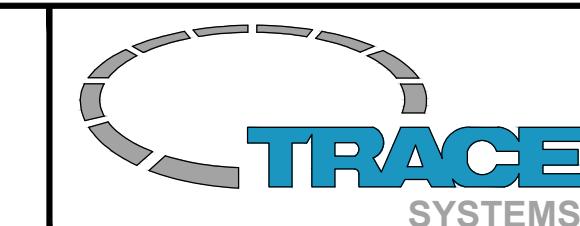
SITE ANTENNA DATA	
BUC FREQ. RANGE	14.0-14.5GHZ
LNB FREQ. RANGE	10.7-11.7GHZ
BUC L.O.	12800MHZ
LNB L.O.	9750MHZ
ANTENNA AZ (TRUE)	169.1
ANTENNA AZ (MAG)	166.9
ANTENNA ELEVATION	60.3
COMMMITTED INFORMATION RATE	
RX AT REMOTE (KBPS)	2056
TX AT REMOTE (KBPS)	1416

LARGE WIRELESS HIGH LEVEL DESIGN

SCALE: NOT TO SCALE

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00/00/00	WRW	REV. NO. 1



PROJECT: MVR DRAWING PACKAGE	DRAWN BY: WINSTON R. WILBECK	DATE: 3/13/17
DRAWING TITLE: MVR HIGH LEVEL DESIGN	REVIEWED BY: MVR TEAM	SCALE: NOT TO SCALE

04

GENERAL NOTES:

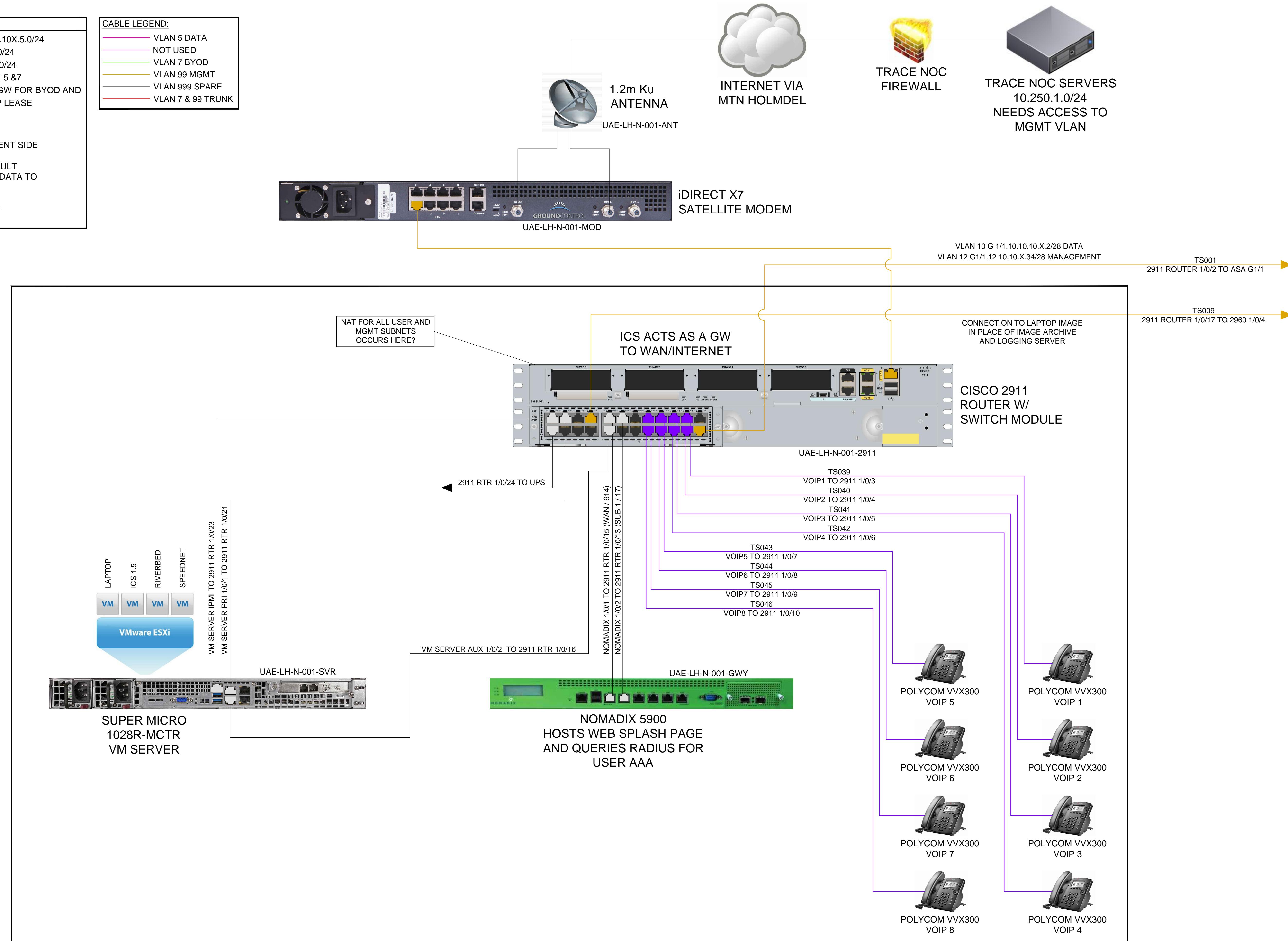
THIN CLIENT VLAN 5: 10.10X.5.0/24
 BYOD VLAN 7: 10.10X.7.0/24
 MGT VLAN 99: 10.10X.99.0/24
 DHCP POOLS FOR VLAN 5 & 7
 FIREWALL IS DEFAULT GW FOR BYOD AND THIN CLIENTS VIA DHCP LEASE

ASA 5508-X FIREWALL
 ROUTING MODE
 DHCP SERVER FOR CLIENT SIDE

ASA SET UP WITH DEFAULT ROUTE OUT FOR USER DATA TO 10.10.X.1
 DEFAULT ROUTE FOR MANAGEMENT DATA TO 10.10.X.35

CABLE LEGEND:

- VLAN 5 DATA
- NOT USED
- VLAN 7 BYOD
- VLAN 99 MGMT
- VLAN 999 SPARE
- VLAN 7 & 99 TRUNK

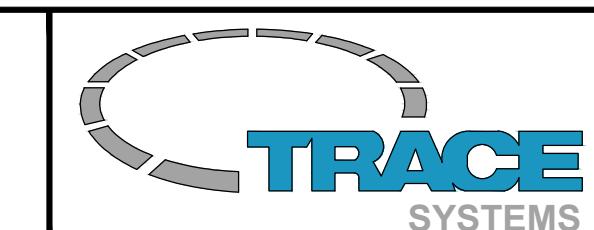


DETAILED SITE DEPICTION AND INTERCONNECT 1

SCALE: NOT TO SCALE

TRACE SYSTEMS PROPRIETARY. THIS DOCUMENT INCLUDES DATA THAT SHALL NOT BE DISCLOSED OUTSIDE THE GOVERNMENT AND SHALL NOT BE DUPLICATED, USED, OR DISCLOSED--IN WHOLE OR IN PART--FOR ANY PURPOSE OTHER THAN TO MONITOR THIS CONTRACT

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00/00/00	WRW	DESCRIPTION: REV. NO. 1



PROJECT:
 MVR DRAWING PACKAGE

DRAWN BY:
 WINSTON R. WILBECK

DATE:
 3/13/17

SHEET NUMBER **05**

DRAWING TITLE:
 DETAILED SITE DEPICTION

REVIEWED BY:
 MVR TEAM

SCALE:
 NOT TO SCALE

GENERAL NOTES:

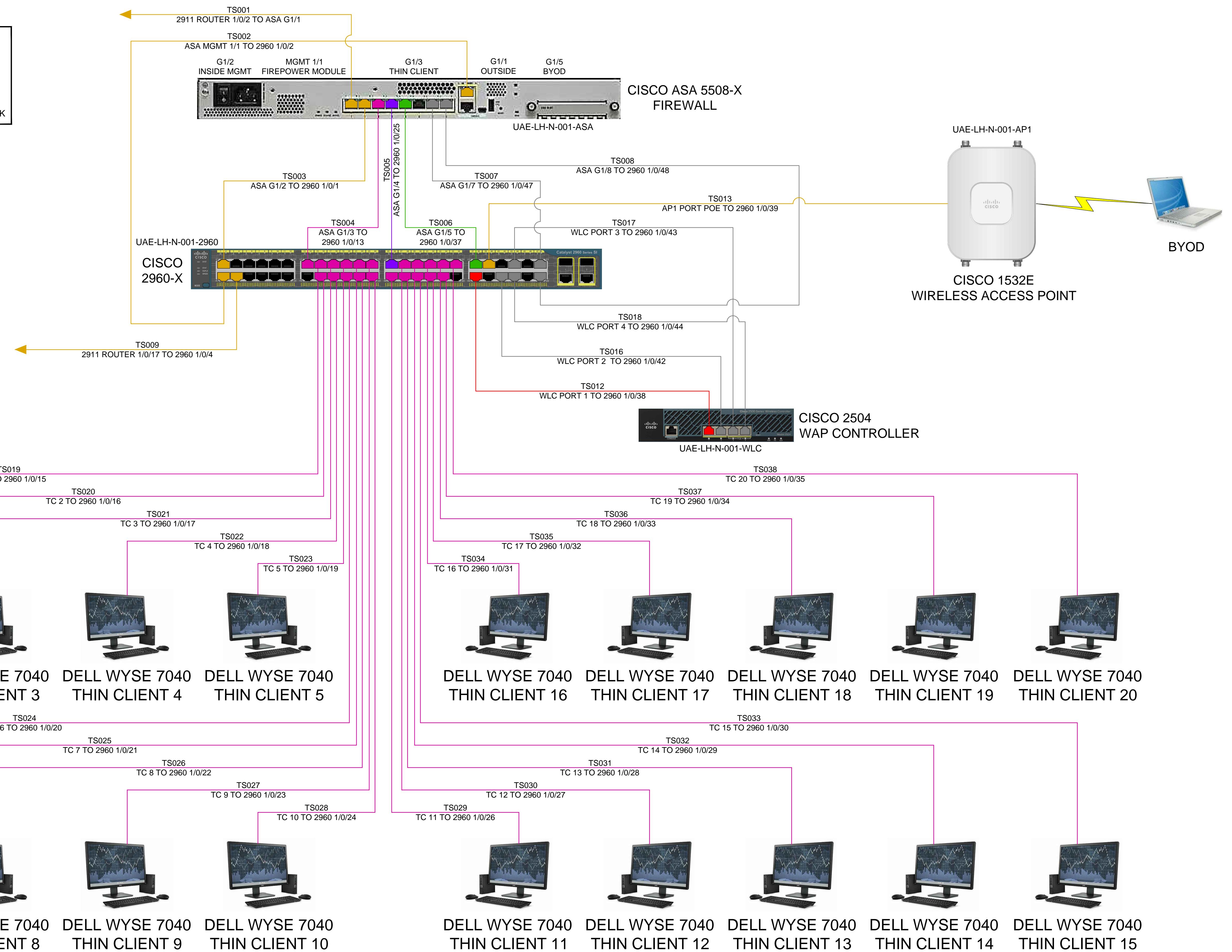
THIN CLIENT VLAN 5: 10.10X.5.0/24
 BYOD VLAN 7: 10.10X.7.0/24
 MGT VLAN 99:10.10X.99.0/24
 DHCP POOLS FOR VLAN 5 & 7
 FIREWALL IS DEFAULT GW FOR BYOD AND THIN CLIENTS VIA DHCP LEASE

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 DHCP SERVER FOR CLIENT SIDE

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 DEFAULT ROUTE FOR MANAGEMENT DATA TO 10.10.X.35

CABLE LEGEND:

- VLAN 5 DATA
- NOT USED
- VLAN 7 BYOD
- VLAN 99 MGMT
- VLAN 999 SPARE
- VLAN 7 & 99 TRUNK

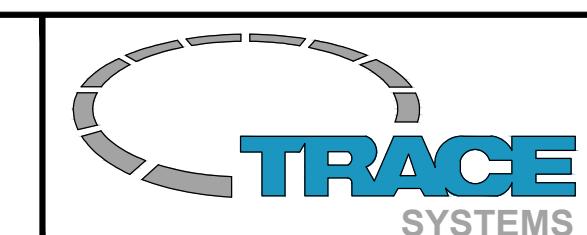


DETAILED SITE DEPICTION AND INTERCONNECT 2

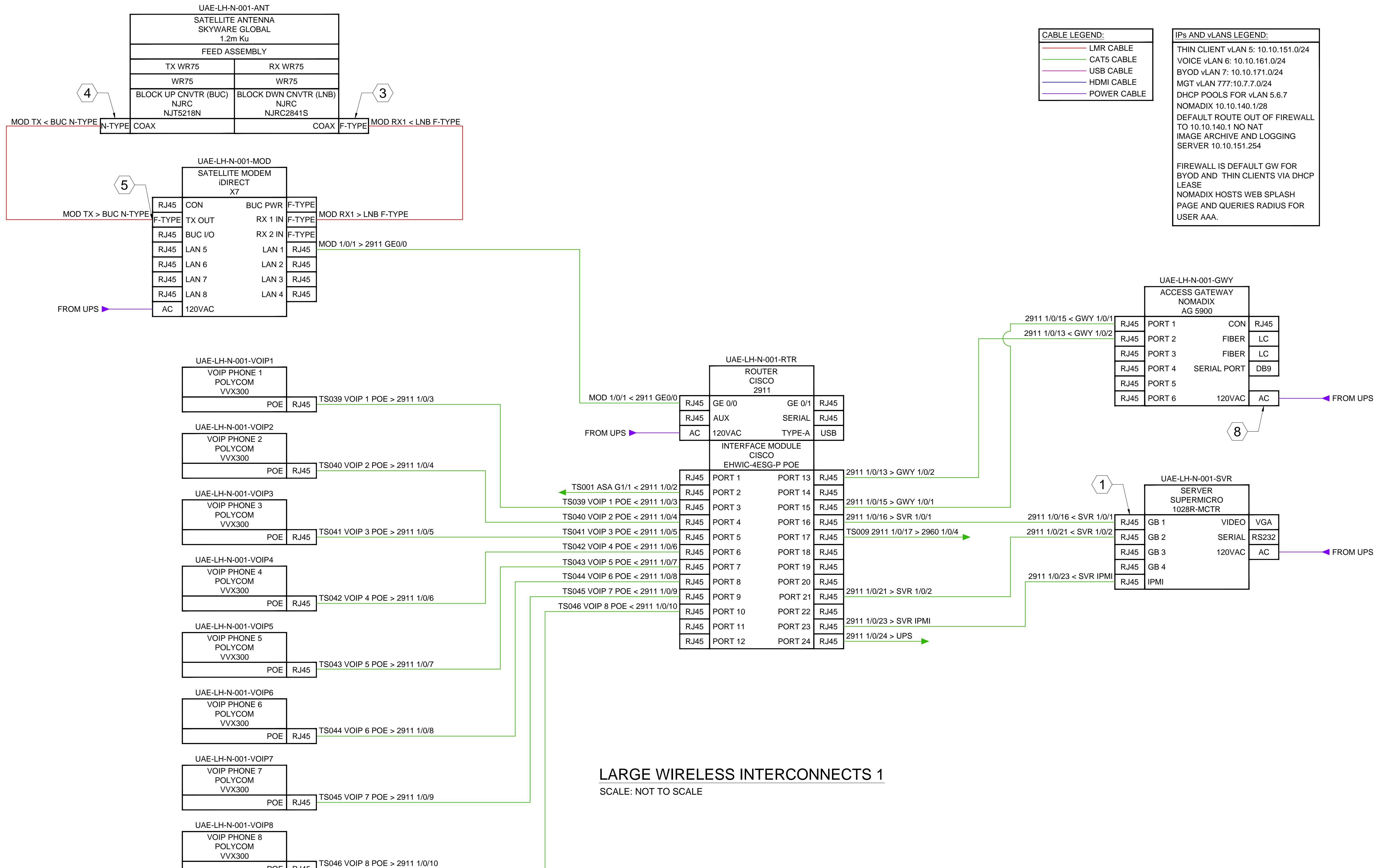
SCALE: NOT TO SCALE

TRACE SYSTEMS PROPRIETARY. THIS DOCUMENT INCLUDES DATA THAT SHALL NOT BE DISCLOSED OUTSIDE THE GOVERNMENT AND SHALL NOT BE DUPLICATED, USED, OR DISCLOSED--IN WHOLE OR IN PART--FOR ANY PURPOSE OTHER THAN TO MONITOR THIS CONTRACT

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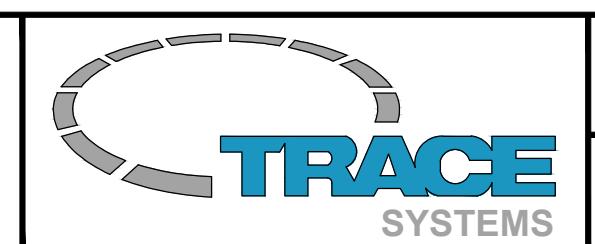


PROJECT: MVR DRAWING PACKAGE	DRAWN BY: WINSTON R. WILBECK	DATE: 3/13/17
DRAWING TITLE: DETAILED SITE DEPICTION	REVIEWED BY: MVR TEAM	SCALE: NOT TO SCALE



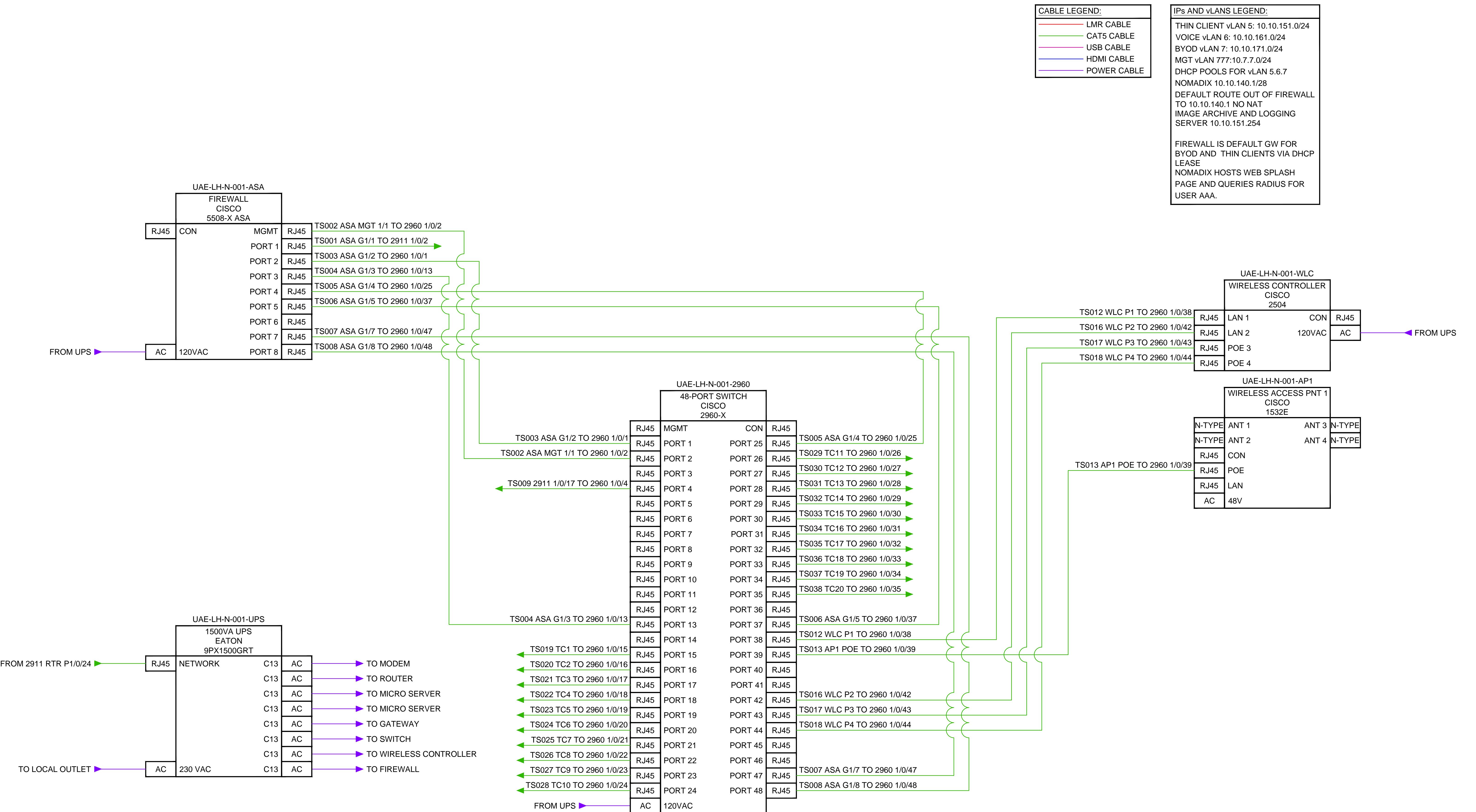
TRACE SYSTEMS PROPRIETARY. THIS DOCUMENT INCLUDES DATA THAT SHALL NOT BE DISCLOSED OUTSIDE THE GOVERNMENT AND SHALL NOT BE DUPLICATED, USED, OR DISCLOSED--IN WHOLE OR IN PART--FOR ANY PURPOSE OTHER THAN TO MONITOR THIS CONTRACT

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NO:	DATE:	BY:
00/00/00	WRW	REV. NO. 1



PROJECT: MVR DRAWING PACKAGE	DRAWN BY: WINSTON R. WILBECK	DATE: 3/13/17
DRAWING TITLE: LARGE WIRELESS INTERCONNECTS	REVIEWED BY: MVR TEAM	SCALE: NOT TO SCALE

07

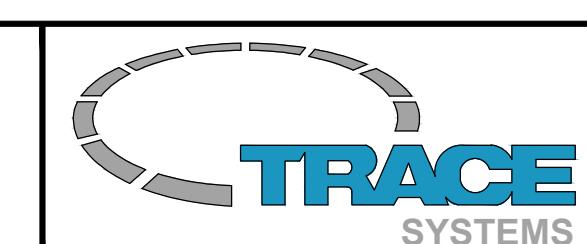


LARGE WIRELESS INTERCONNECTS 2

SCALE: NOT TO SCALE

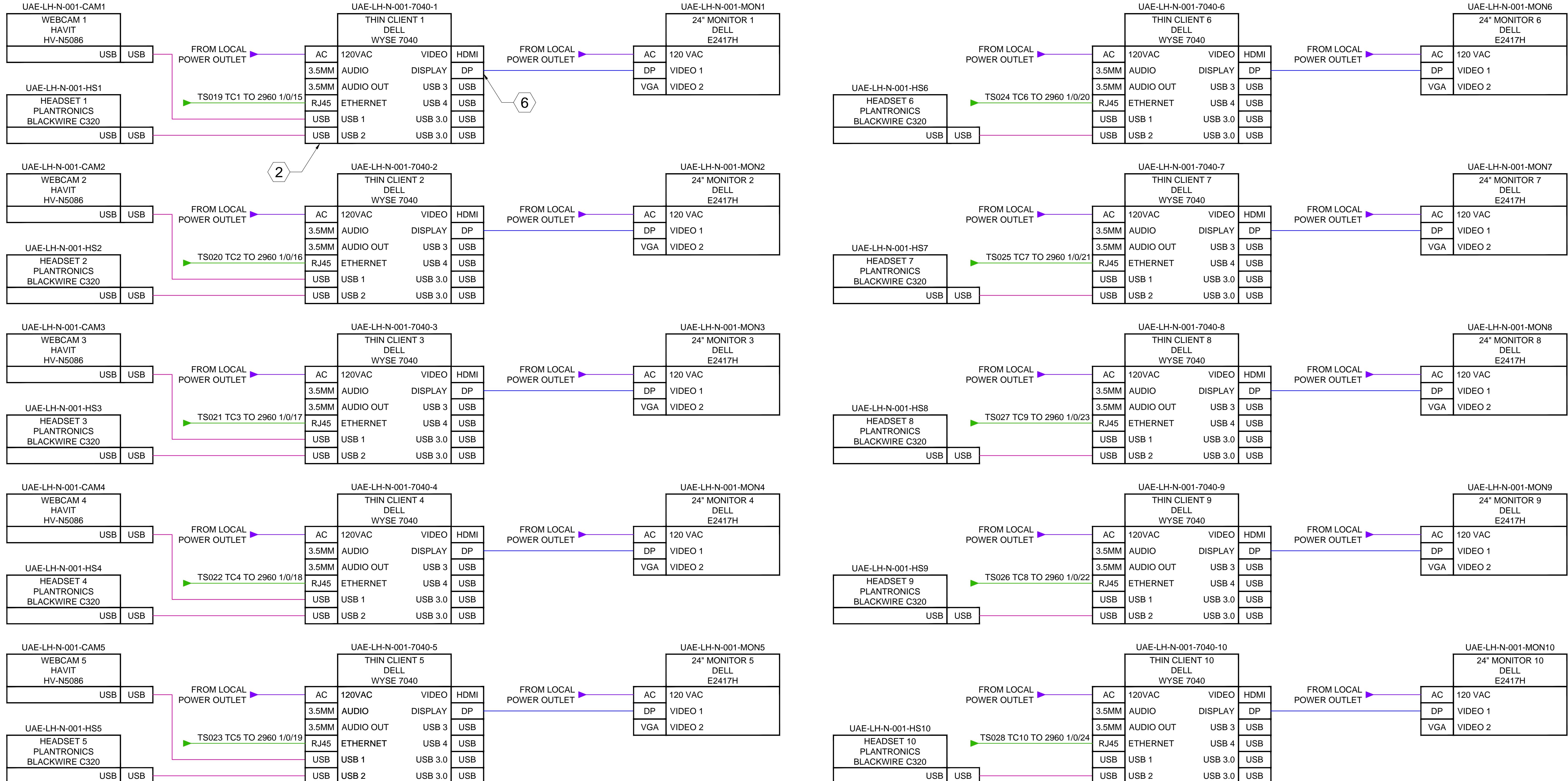
TRACE SYSTEMS PROPRIETARY. THIS DOCUMENT INCLUDES DATA THAT SHALL NOT BE DISCLOSED OUTSIDE THE GOVERNMENT AND SHALL NOT BE DUPLICATED, USED, OR DISCLOSED--IN WHOLE OR IN PART--FOR ANY PURPOSE OTHER THAN TO MONITOR THIS CONTRACT

REVISIONS:			
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PROJECT: MVR DRAWING PACKAGE	DRAWN BY: WINSTON R. WILBECK	DATE: 3/13/17
DRAWING TITLE: LARGE WIRELESS INTERCONNECTS	REVIEWED BY: MVR TEAM	SCALE: NOT TO SCALE

08



CABLE LEGEND:

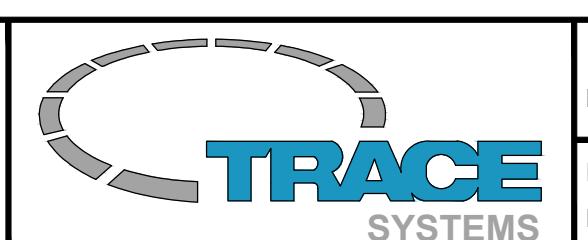
- LMR CABLE
- CAT5 CABLE
- USB CABLE
- HDMI CABLE
- POWER CABLE

LARGE WIRELESS INTERCONNECTS 3

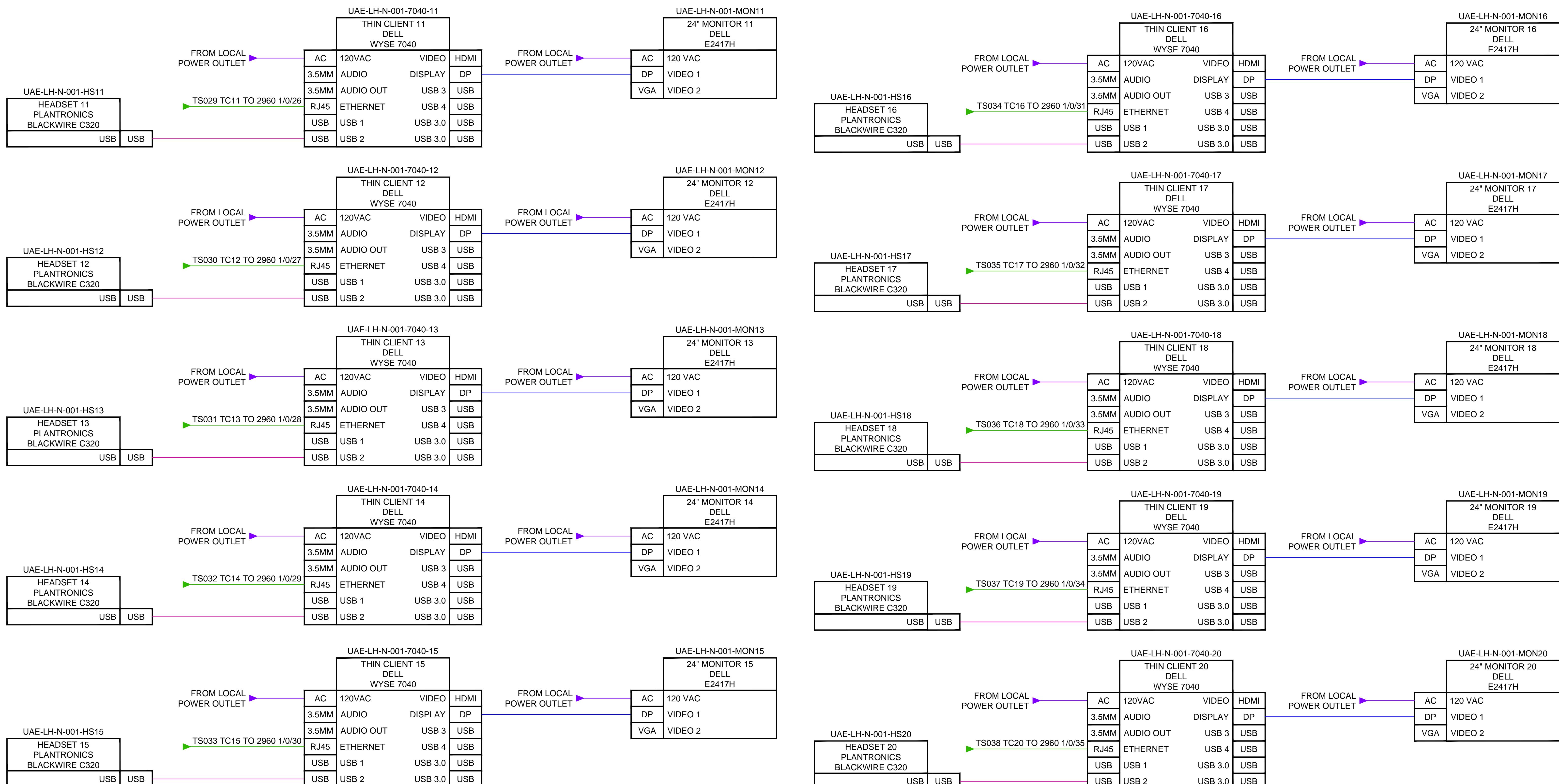
SCALE: NOT TO SCALE

TRACE SYSTEMS PROPRIETARY. THIS DOCUMENT INCLUDES DATA THAT SHALL NOT BE DISCLOSED OUTSIDE THE GOVERNMENT AND SHALL NOT BE DUPLICATED, USED, OR DISCLOSED--IN WHOLE OR IN PART--FOR ANY PURPOSE OTHER THAN TO MONITOR THIS CONTRACT

REVISIONS:		
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▲	00/00/00	WRW
		REV. NO. 1



PROJECT: MVR DRAWING PACKAGE	DRAWN BY: WINSTON R. WILBECK	DATE: 3/13/17
DRAWING TITLE: LARGE WIRELESS INTERCONNECTS	REVIEWED BY: MVR TEAM	SCALE: NOT TO SCALE



CABLE LEGEND:

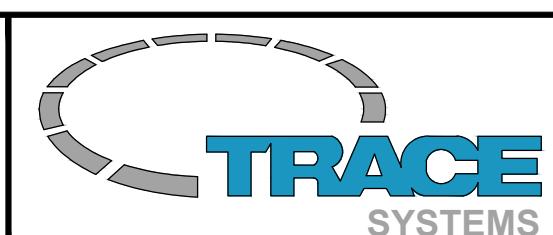
- LMR CABLE
- CAT5 CABLE
- USB CABLE
- HDMI CABLE
- POWER CABLE

LARGE WIRELESS INTERCONNECTS 4

SCALE: NOT TO SCALE

TRACE SYSTEMS PROPRIETARY. THIS DOCUMENT INCLUDES DATA THAT SHALL NOT BE DISCLOSED OUTSIDE THE GOVERNMENT AND SHALL NOT BE DUPLICATED, USED, OR DISCLOSED--IN WHOLE OR IN PART--FOR ANY PURPOSE OTHER THAN TO MONITOR THIS CONTRACT

REVISIONS:		
NO:	DATE:	BY:
00/00/00	WRW	REV. NO. 1



PROJECT: MVR DRAWING PACKAGE	DRAWN BY: WINSTON R. WILBECK	DATE: 3/13/17
DRAWING TITLE: LARGE WIRELESS INTERCONNECTS	REVIEWED BY: MVR TEAM	SCALE: NOT TO SCALE

UAE Al Minhad / Camp Redleg / MWR Tent-TYPE LARGE WIRED/WIRELESS

Network Description	Subnet	Bit Mask	VLAN ID	Device	Interface	Addresss	Mask	Gateway	Hostname	Notes
VOIP	10.147.253.0	24	6	ICS	TBD	10.147.253.1		NA		VOIP Phones connect to ICS ethernet switch
	10.147.253.0	24		6 VVX300	eth0	Dynamic		10.147.253.1		
ICS & FW Connection-Data	10.10.11.0	28	10	ASA	G1/1.10	10.10.11.2	255.255.255.240	10.10.11.1 (ICS)	UAE-LH-N-001-ASA	Default route out for user data
ICS & FW Connection Management	10.10.11.32	28	12	ASA	G1/1.12	10.10.11.34	255.255.255.240	10.10.11.33 (ICS)	UAE-LH-N-001-ASA	
Thin Client	10.111.5.0	24	5	ASA	G1/3	10.111.5.1		NA	UAE-LH-N-001-ASA	
	10.111.5.0	24	5	Dell Server	eth1	10.111.5.254		10.111.105.1	UAE-LH-N-001-SVR	
	10.111.5.0	24	5	Wyse Clients	eth0	Dynamic		10.111.105.1	UAE-LH-N-001-TC1-N	DHCP Scope 10.111.5.2-25
BYOD	10.111.7.0	24	7	ASA	G1/5	10.111.7.1		NA	UAE-LH-N-001-ASA	
	10.111.7.0	24	7	2540 WLC	Port1 BYOD	10.111.7.254		10.111.7.1	UAE-LH-N-001-WLC	
	10.111.7.0	24	7	User Devices	WLAN1	Dynamic		10.111.7.1	NA	DHCP Scope 10.111.6.2-71, SSID MIWRCAFE, No Security
Mgmt	10.111.99.0	24	99	ASA	G1/1	10.111.99.1		NA	UAE-LH-N-001-ASA	
	10.111.99.0	24	99	Firepower	MGT1/1	10.111.99.2		10.111.99.1	UAE-LH-N-001-SFR	Requires connection from Mgt1/1 to switch VLAN 99
	10.111.99.0	24	99	2504 WLC	Port1 Mgt	10.111.99.6		10.111.99.1	UAE-LH-N-001-WLC	
	10.111.99.0	24	99	C2960	VLAN 99	10.111.99.8		10.111.99.1	UAE-LH-N-001-2960	
	10.111.99.0	24	99	C1532E WAP	BVI1	10.111.99.10		10.111.99.1	UAE-LH-N-001-AP1	
	10.111.99.0	24	99	C1532E WAP	BVI1	10.111.99.10		10.111.99.1	UAE-LH-N-001-AP1	
	10.111.99.0	24	99	C1532E WAP	BVI1	10.111.99.11		10.111.99.1	UAE-LH-N-001-AP2	
	10.111.99.0	24	99	C1532E WAP	BVI1	10.111.99.11		10.111.99.1	UAE-LH-N-001-AP3	
	10.111.99.0	24	99	ICS VM Server Image (win)	eth0	10.111.99.253		10.111.99.1		Local Logging and Management
	10.111.99.0	24	99	Dell Server	eth0	10.111.99.254		10.111.99.1	UAE-LH-N-001-SVR	

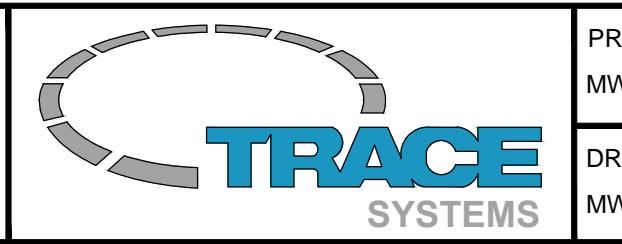
P1 connection	Wire Number	P2 Connection	Length
ASA G1/1	W-TS001	ICS Switchport	2ft
ASA Mgt 1/1	W-TS002	2960 1/0/2	1ft
ASA G1/2	W-TS003	2960 1/0/1	1ft
ASA G1/3	W-TS004	2960 1/0/13	1ft
ASA G1/4	W-TS005	2960 G1/0/25	1ft
ASA G1/5	W-TS006	2960 G1/0/37	1ft
ASA G1/7	W-TS007	2960 G1/0/47	1ft
ASA G1/8	W-TS008	2960 G1/0/48	1ft
2960 G1/0/4	W-TS009	ICS Management VM Server	1ft
2960 G1/0/3	W-TS010	Server Ethernet0	3ft
2960 G1/0/4	W-TS011	Server Ethernet1	3ft
2960 G1/0/38	W-TS012	WLC Port1	1ft
2960 G1/0/39	W-TS013	AP1 POE Port	TBD
2960 G1/0/40	W-TS014	AP2 POE Port	TBD
2960 G1/0/41	W-TS015	AP3 POE Port	TBD
2960 G1/0/42	W-TS016	WLC Port2	1ft
2960 G1/0/43	W-TS017	WLC Port3	1ft
2960 G1/0/44	W-TS018	WLC Port4	1ft
2960 G1/0/15	W-TS019	TC1 eth0	TBD
2960 G1/0/16	W-TS020	TC2 eth0	TBD
2960 G1/0/17	W-TS021	TC3 eth0	TBD
2960 G1/0/18	W-TS022	TC4 eth0	TBD
2960 G1/0/19	W-TS023	TC5 eth0	TBD
2960 G1/0/20	W-TS024	TC6 eth0	TBD
2960 G1/0/21	W-TS025	TC7 eth0	TBD
2960 G1/0/22	W-TS026	TC8 eth0	TBD
2960 G1/0/23	W-TS027	TC9 eth0	TBD
2960 G1/0/24	W-TS028	TC10 eth0	TBD
2960 G1/0/26	W-TS029	TC11 eth0	TBD
2960 G1/0/27	W-TS030	TC12 eth0	TBD
2960 G1/0/28	W-TS031	TC13 eth0	TBD
2960 G1/0/29	W-TS032	TC14 eth0	TBD
2960 G1/0/30	W-TS033	TC15 eth0	TBD
2960 G1/0/31	W-TS034	TC16 eth0	TBD
2960 G1/0/32	W-TS035	TC17 eth0	TBD
2960 G1/0/33	W-TS036	TC18 eth0	TBD
2960 G1/0/34	W-TS037	TC19 eth0	TBD
2960 G1/0/35	W-TS038	TC20 eth0	TBD

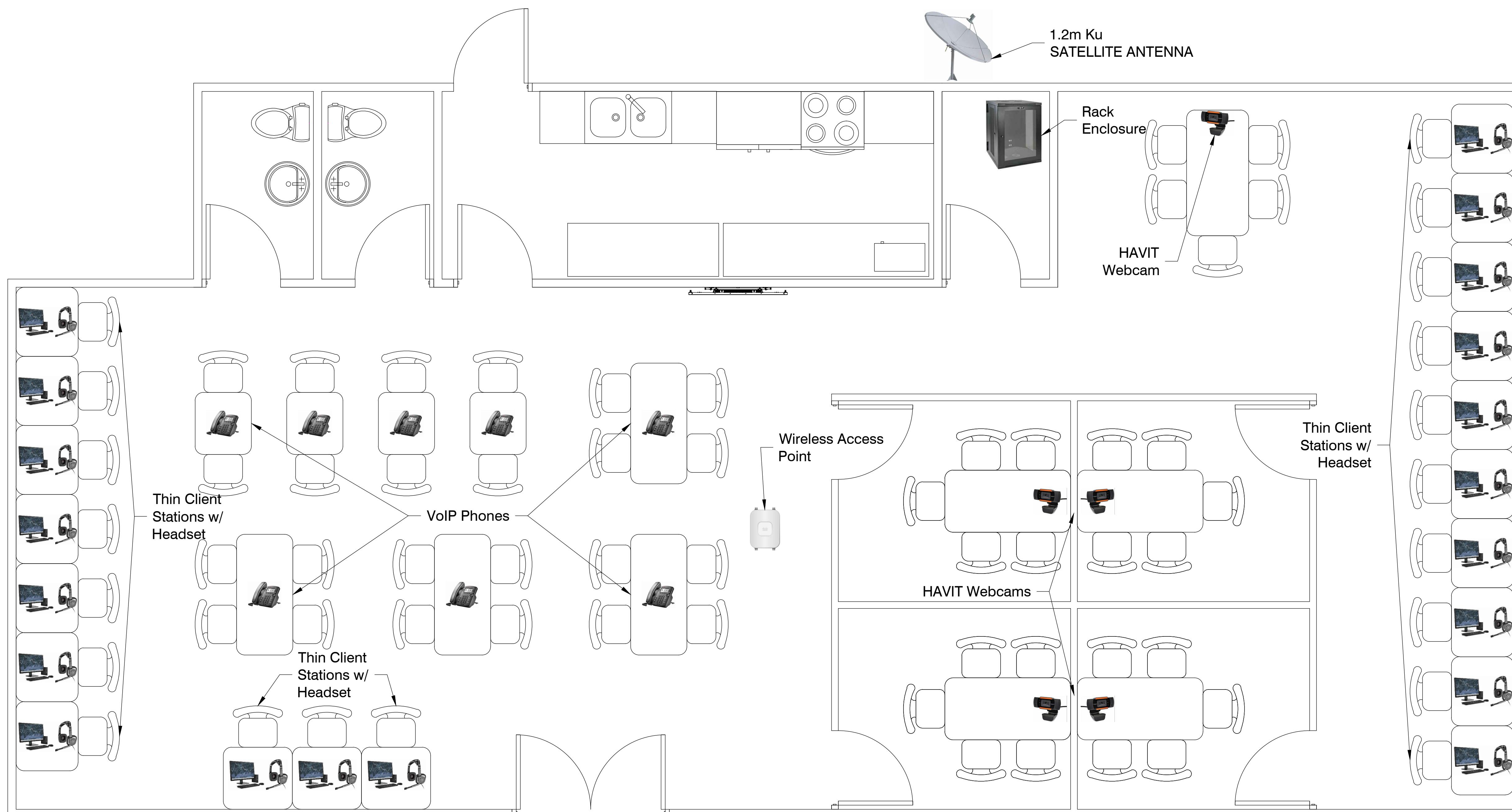
LARGE WIRELESS SITE IP SPACE & WIRE MAP

SCALE: NOT TO SCALE

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REVISIONS:		
NO:	DATE:	BY:
00/00/00	WRW	DESCRIPTION: REV. NO. 1


 PROJECT: MVR DRAWING PACKAGE
 DRAWN BY: WINSTON R. WILBECK
 DRAWING TITLE: MVR NETWORK INFORMATION
 REVIEWED BY: MVR TEAM
 DATE: 3/13/17
 SCALE: NOT TO SCALE



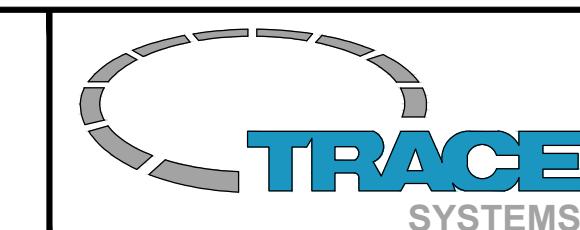
Component/Description	Large Wired/Wireless Qty
Router: Cisco 2911 Modular Router with Security Bundle	1
Switch: Cisco 2960-X Gigabit	1
Firewall: Cisco 5508-X	1
Server: SuperMicro 1028R-MCTR	1
Hotspot Gateway Controller: Nomadix AG5900	1
Wireless Controller: Cisco 2504	1
Wireless Access Points: Cisco CAP 1532E	
Rugged Outdoor	1
VoIP Phones: Polycom VVX300	8
Dell Thin Clients: Dell WYSE 7040 AiO Thin Client	20
Webcam: Havit HD Webcam HV-N5086 720p	5
Headset: Plantronics C320	20
UPS: Eaton 9130 230V, 50/60Hz 1000VA/900W	2
Rack Case: QUEST 20RU Rack Enclosure	1
Cable Kit: 100ft of Dual RG-6 with connectors plus Ethernet patch cables	1

MWR DRAFT LARGE WIRELESS FLOOR PLAN

SCALE: NOT TO SCALE

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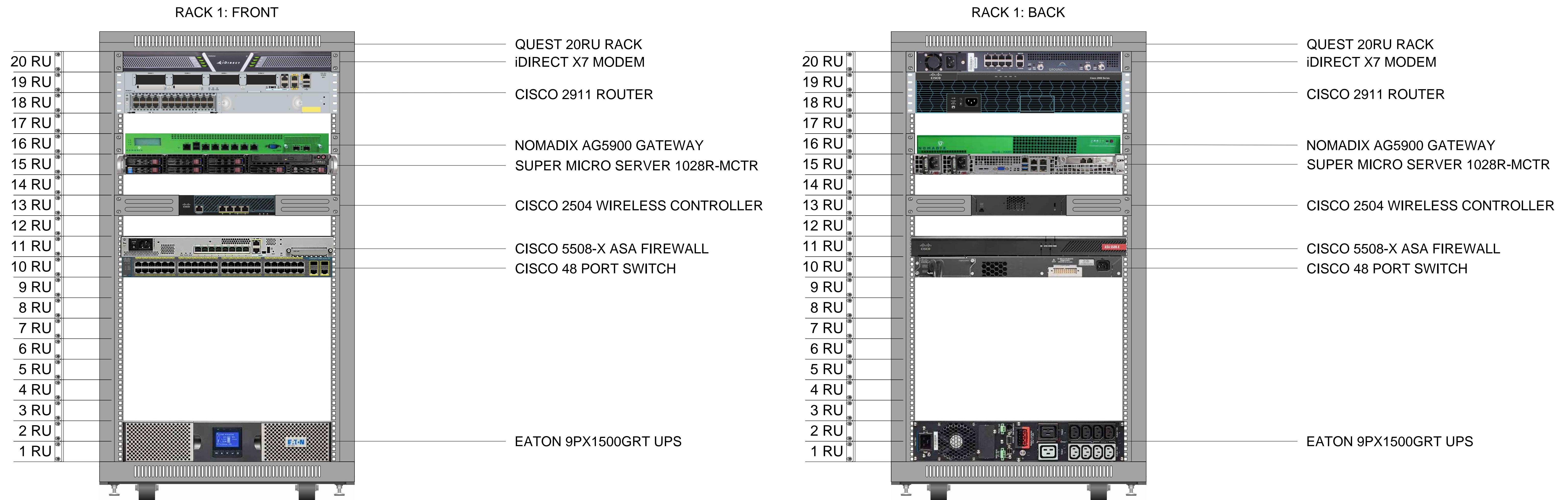
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NO:	DATE:	BY:
00/00/00	WRW	REV. NO. 1



PROJECT:
MWR DRAWING PACKAGE
DRAWN BY:
WINSTON R. WILBECK
DRAWING TITLE:
MWR EXAMPLE FLOOR PLAN
REVIEWED BY:
MWR TEAM

DATE:
3/13/17
SCALE:
NOT TO SCALE

12

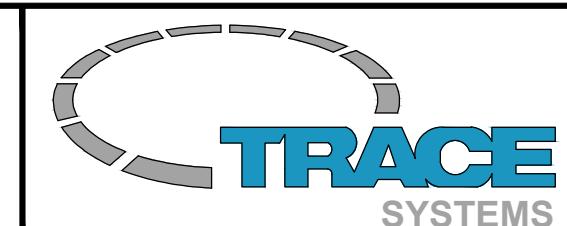


LARGE WIRELESS RACK ELEVATION

SCALE: NOT TO SCALE

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00/00/00	WRW	REV. NO. 1



PROJECT:
MVR DRAWING PACKAGE

DRAWING TITLE:
MVR DRAFT RACK ELEVATIONS

DRAWN BY:
WINSTON R. WILBECK

REVIEWED BY:
MVR TEAM

DATE:
3/13/17

SCALE:
NOT TO SCALE

SHEET NUMBER 13

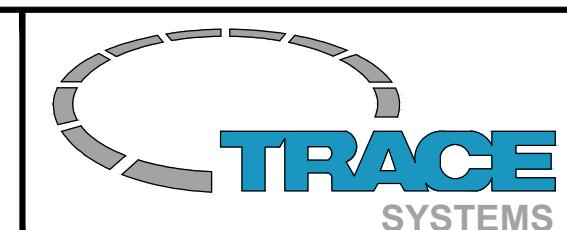
SYSTEM CONNECTOR DETAILS							
DETAIL 1	DETAIL 2	DETAIL 3	DETAIL 4				
RJ45 CONNECTOR	USB TYPE-A	F-TYPE COAXIAL CONNECTOR	N-TYPE COAXIAL CONNECTOR				
DETAIL 5	DETAIL 6	DETAIL 7	DETAIL 8				
			C13 C14				
F MALE TO N FEMALE COAX CONNECTOR	DISPLAYPORT CONNECTOR	HDMI CONNECTOR	C13/C14 POWER CONNECTOR				
EQUIPMENT BLOCK DETAIL		SYSTEM LABEL SCHEDULE					
<p>1. DESCRIPTION - DESCRIPTION OF THE EQUIPMENT SHOWN 2. MANUFACTURER - INDICATES THE BASIS OF DESIGN EQUIPMENT MANUFACTURER 3. MODEL - INDICATES THE BASES OF DESIGN MODEL NUMBER 4. INPUT - INDICATES THE INPUT SIGNAL TYPE 5. OUTPUT - INDICATES THE OUTPUT SIGNAL TYPE 6. CNCT - INDICATES THE CONNECTOR TYPE</p>		<p>TS003 ASA G1/2 TO 2960 1/0/1</p> <p>DEVICE PORT IDENTIFIER</p> <p>DEVICE IDENTIFIER</p> <p>CABLE NUMBER</p> <p>SIGNAL TYPES ON THIS SYSTEM</p> <ul style="list-style-type: none"> LAN - NETWORK CABLE (ETHERNET COMMUNICATION PROTOCOL) USB - UNIVERSAL SERIAL BUS CABLE LMR - COAX CABLE VID - VIDEO CABLE PWR - 120-220V POWER CABLE 					
CONNECTOR TYPES							
F-TYPE	RF COAXIAL CONNECTOR	HDMI	HIGH DEFINITION CONNECTOR	WR75	HIGH DEFINITION CONNECTOR	DB9	SERIAL PORT CONNECTOR
N-TYPE	RF COAXIAL CONNECTOR	LC	LC FIBER CONNECTOR	3.5MM	3.5MM STEREO PLUG	RS232	SERIAL PORT CONNECTOR
RJ45	NETWORK CONNECTOR	AC	ALTERNATING CURRENT POWER CONNECTOR	VGA	VIDEO GRAPHICS ARRAY	C13	POWER CONNECTOR
DVI	DIGITAL VISUAL INTERFACE	USB	UNIVERSAL SERIAL BUS	USB	UNIVERSAL SERIAL BUS	R-20R	POWER CONNECTOR

DETAILS/APPENDIX

SCALE: NOT TO SCALE

TRACE SYSTEMS PROPRIETARY. THIS DOCUMENT INCLUDES DATA THAT SHALL NOT BE DISCLOSED OUTSIDE THE GOVERNMENT AND SHALL NOT BE DUPLICATED, USED, OR DISCLOSED--IN WHOLE OR IN PART--FOR ANY PURPOSE OTHER THAN TO MONITOR THIS CONTRACT

REVISIONS:	DATE:	BY:	DESCRIPTION:
	00/00/00	WRW	REV. NO. 1



PROJECT:
MVR DRAWING PACKAGE

DRAWN BY:
WINSTON R. WILBECK

DATE:
3/13/17

SCALE:
NOT TO SCALE

SHEET NUMBER 14