RELIANCE

AIRFIELD LIGHTING CONTROL AND MONITORING SYSTEM

SAMPLE L-890 ALCMS DRAWINGS
DISTRIBUTED CONTROL ARCHITECTURE

PLANS PREPARED BY:

ADB SAFEGATE

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SEPTEMBER 2024

AUTHORIZED CONTROL COPY
PM@ ADB SAFEGATE
AUTHORIZED BY
DATE
COLUMBUS, OHIO U.S.A.

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DRAWING INFORMATION:
DRAWING PACKAGE COVER SHEET

A	SUBMITTAL RELEASE		19AUG24

SET REVISION: A	DRAWN BY:	SET SHEET NUMBER: 1 OF 37
	DRAWN DATE: 19 AUG 24	PAGE NUMBER: 1 OF 1

COVER SHEET

INDEX OF DRAWINGS & APPENDIX

SHEET #	PAGES	DRAWING #	DESCRIPTION (OPTIONAL)
1	1	COVER SHEET	DRAWING PACKAGE COVER SHEET
2	1	INDEX OF DRAWINGS	INDEX OF DRAWINGS
3	1	ITEMS TO BE SUPPLIED	ADBSG - CONTRACTOR SUPPLIED ITEMS
4-9	6	SYSTEM OVERVIEW & JOB SCOPE	SYSTEM OVERVIEW & JOB SCOPE
10-15	6	ALC-ESD-2401-TWR01	TOWER ASSEMBLY & WIRING
16-21	6	ALC-ESD-2401-VLT01	VAULT ASSEMBLY & WIRING
22	1	CCR & MISC I/O INDEX	CCR & MISCELLANEOUS I/O INDEX
23	1	ACE WIRING	TYPICAL ETHERNET ACE COM WIRING
24-25	2	I/O ACE	I/O ACE ASSEMBLY & WIRING
26-32	7	ALC-ESD.2401-MNT01	MAINTENANCE ASSEMBLY & WIRING
33	1	ALC-ESD-2401-RMC01	ROAMING LAPTOP ASSEMBLY
34	1	ALC-ESD-2401-SPR01	ROAMING LAPTOP ASSEMBLY
35	1	APPENDIX	
36	1	COLOR CODES	CCR & ETHERNET COLOR CODES
37	1	19" TOUCHSCREEN	19" TCHSCREEN INSTALL INSTRUCTIONS

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DRAWING INFORMATION:
INDEX OF DRAWINGS

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INDEX OF DRAWINGS

ITEMS SUPPLIED BY ADB SAFEGATE			
GENERAL ASSEMBLIES BILLS OF MATERIAL			
CALLOUT	PART NUMBER	DESCRIPTION	QTY
TWR	ALC-ESD-2401-TWR01	TOWER ASSEMBLY	1
VLT	ALC-ESD-2401-VLT01	VAULT ASSEMBLY	1
ARF	ALC-ESD-2401-ARF01	MAINTENANCE CENTER ASSEMBLY	1
RMC	ALC-ESD-2401-RMC01	ROAMING LAPTOP ASSEMBLY	1
SPR	ALC-ESD-2401-SPR01	SPARE PARTS ASSEMBLY	1
ACEB	ACE3-IA0ND2210001	ACE3 I/O AC TS I2 O2 Wi V1	1

ITEMS SUPPLIED BY INSTALLING CONTRACTOR / AIRPORT		
GENERAL ASSEMBLIES BILLS OF MATERIAL		
CALLOUT	PART NUMBER / DESCRIPTION	QTY
RB2	RECEPTACLE BOX, STRAIGHT BLADE, 2 OUTLET, 2 POLE/3 WIRE 120VAC, 20A	A/R
RB4	RECEPTACLE BOX, STRAIGHT BLADE, 4 OUTLET, 2 POLE/3 WIRE 120VAC, 20A	A/R
FPC	FIBER PATCH CABLE, SINGLE MODE, DUPLEX, 8.5-MICRON, TERMINATED WITH SC STYLE CONNECTORS, 1 PAIR EACH	A/R
FPP	FIBER PATCH PANEL, SURFACE MOUNT ORTRONICS PART NUMBERS: 12 PATCH = OR-61500212LX - 24 PATCH = #OR-61500224	A/R
FSM	FIBER, SINGLE MODE, 8.5-MICRON TERMINATED WITH SC STYLE CONNECTORS, 2 STRANDS REQUIRED PER COMMUNICATION LINK	A/R
MAS	ANTENNA MAST	A/R
WGD	WIRE, GROUND, 8AWG STRANDED, MUST BE CONNECTED TO DIRECTLY TO BUILDINGS LIGHTNING GROUND	A/R
WUP	WIRE, DAISY-CHAINED 120VAC UPS POWER FROM EQUIPMENT CABINET TO EACH ACE™ UNIT, 3 CONDUCTOR, 12AWG, STRANDED	A/R
W18	WIRE, 18AWG, UN-SHEILDED 600V, 8 CONDUCTOR	A/R
WTD	WIRE TO DEDICATED 20A, 120VAC CIRCUIT	A/R
WC6	WIRE, 23AWG, SOLID BARE COPPER, CAT 6, NON-PLENUM, SHIELDED (BELDEN# 7953A OR EQUIVALENT)	A/R

CAUTION:

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DRAWING INFORMATION:

ADB SAFEGATE SUPPLIED ITEMS
& CONTRACTOR SUPPLIED ITEMS

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SYSTEM OVERVIEW

I. SUBSYSTEMS	II. COMMUNICATIONS	III. UPS BACKUP	IV. NUMBER OF REGULATORS & MONITORING
TOWER TOWER ENCLOSURE ASSEMBLY	TWO (2) Single Mode Fiber Optic Links to VAULT ONE (1) 900MHZ Radio Link to VAULT	ONE (1) 750VA UPS for TOUCHSCREEN Assy ONE (1) 1000VA UPS for PC Assembly	MISCELLANEOUS I/O = BEACON
VAULT VAULT ENCLOSURE ASSEMBLY	TWO (2) Single Mode Fiber Optic Links from TOWER TWO (2) Single Mode Fiber Optic Links to MAINTENANCE CENTER ONE (1) 900MHZ Radio Link to TOWER	ONE (1) 1000VA UPS for PC Assembly ONE (1) 1500VA UPS for ACE Units	RUNWAY = 2 - ACE 3 with LAMPS OUT & IRMS TAXIWAY = 9 - ACE 3 with LAMPS OUT & IRMS SPARE = 4 - ACE 3 with LAMPS OUT & IRMS MISCELLANEOUS I/O = GENERATOR, PCR
MAINTENANCE CENTER MAINTENANCE CENTER ASSEMBLY	TWO (2) Single Mode Fiber Optic Links from VAULT	ONE (1) 750VA UPS for PC Assembly	
ROAMING MAINTENANCE ROAMING LAPTOP ASSEMBLY	AIRPORT Supplied NETWORK CARD		

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DRAWING INFORMATION:

NODES, COMMUNICATIONS, UPS, CCR & MONITORING

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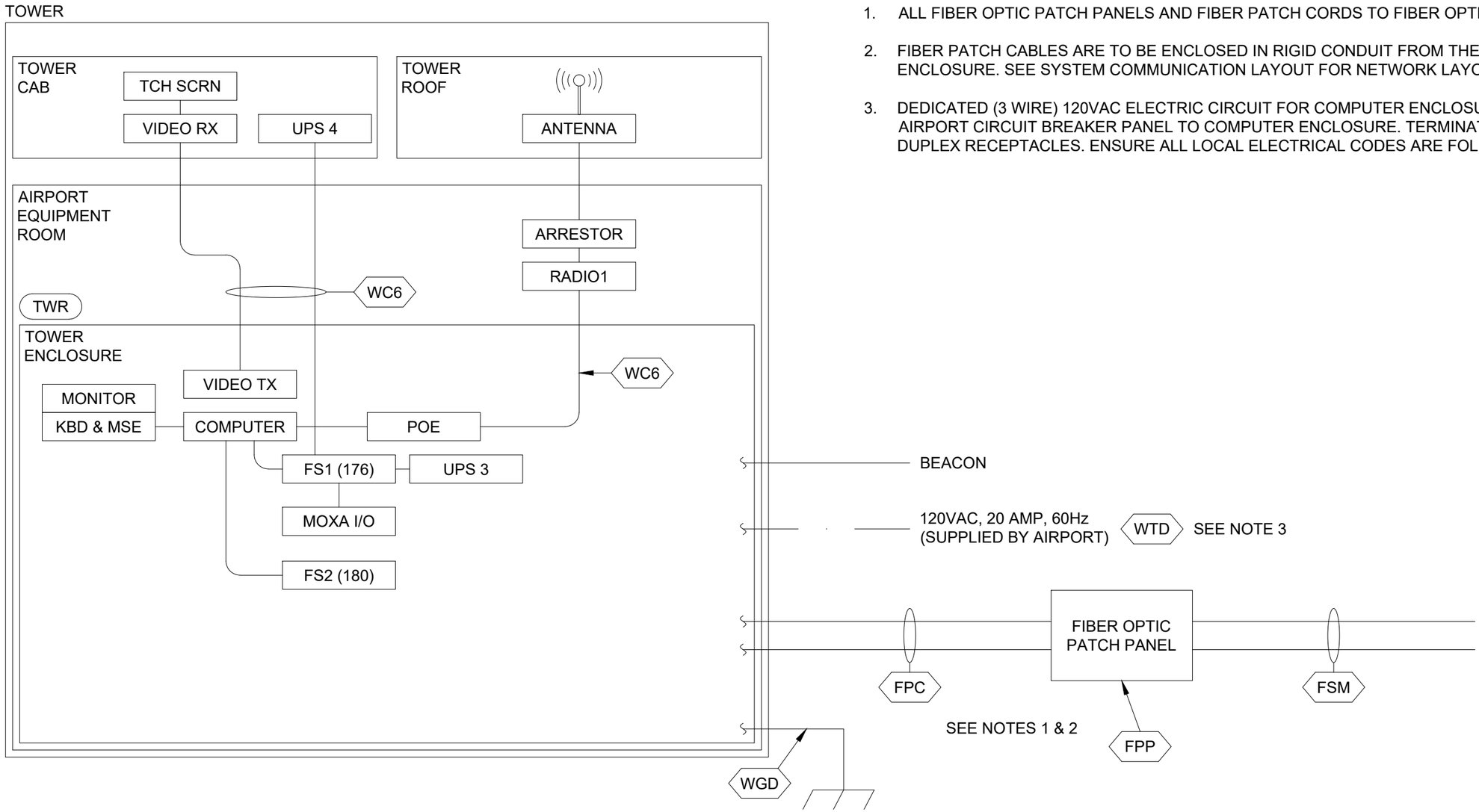
SUBSYSTEMS OVERVIEW



INSTALLATION NOTES:

1. ALL FIBER OPTIC PATCH PANELS AND FIBER PATCH CORDS TO FIBER OPTIC DRIVERS SUPPLIED BY CONTRACTOR.
2. FIBER PATCH CABLES ARE TO BE ENCLOSED IN RIGID CONDUIT FROM THE FIBER PATCH PANEL TO THE VAULT ENCLOSURE. SEE SYSTEM COMMUNICATION LAYOUT FOR NETWORK LAYOUT FOR FIBER OPTIC CONNECTIONS.
3. DEDICATED (3 WIRE) 120VAC ELECTRIC CIRCUIT FOR COMPUTER ENCLOSURE. TO BE ENCLOSED IN RIGID CONDUIT FROM AIRPORT CIRCUIT BREAKER PANEL TO COMPUTER ENCLOSURE. TERMINATED IN 2-GANG ELECTRICAL BOX, WITH DUAL DUPLEX RECEPTACLES. ENSURE ALL LOCAL ELECTRICAL CODES ARE FOLLOWED.

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DRAWING INFORMATION:
TOWER NODE OVERVIEW

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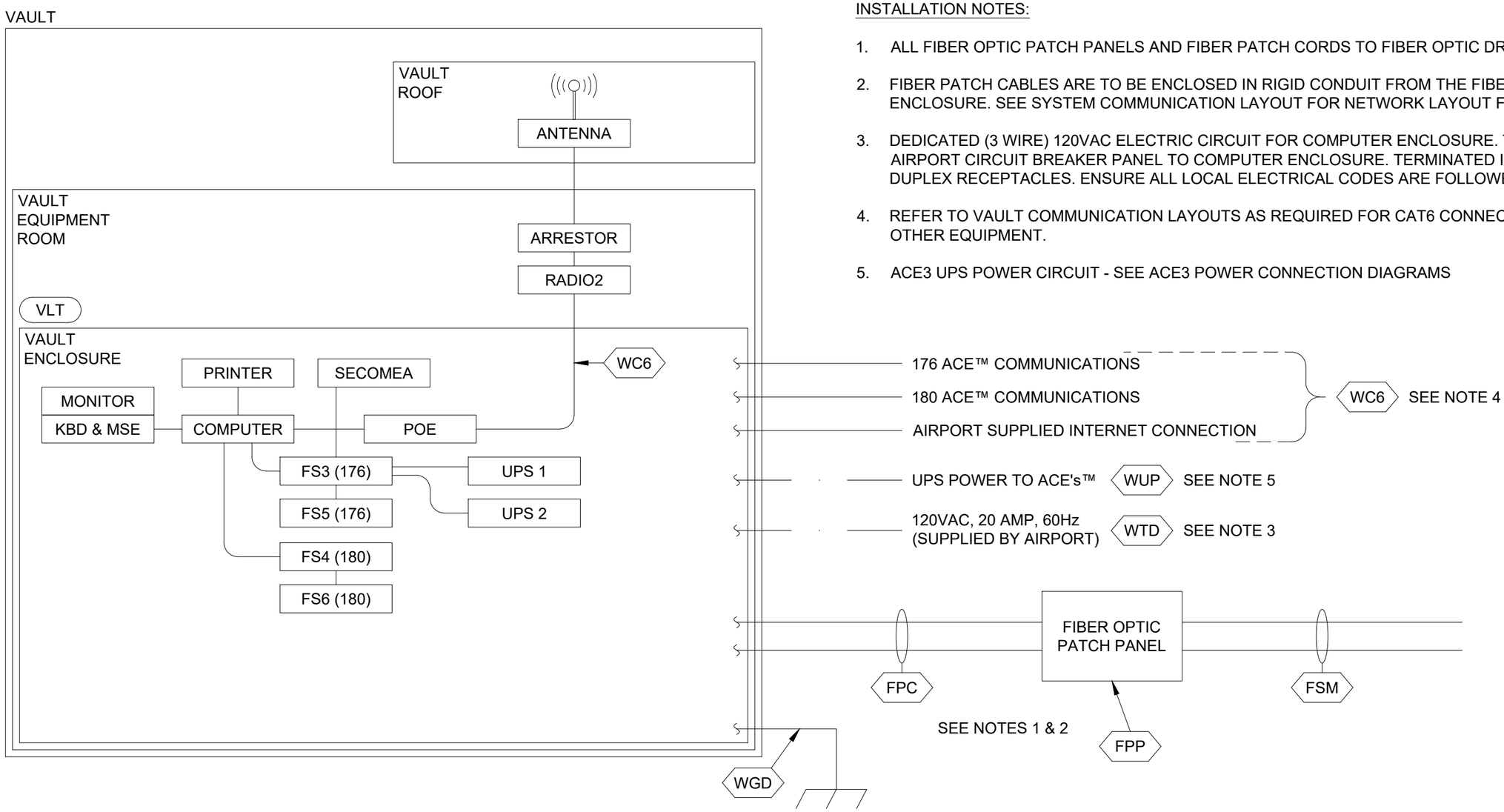
TOWER JOB SCOPE



INSTALLATION NOTES:

1. ALL FIBER OPTIC PATCH PANELS AND FIBER PATCH CORDS TO FIBER OPTIC DRIVERS SUPPLIED BY CONTRACTOR.
2. FIBER PATCH CABLES ARE TO BE ENCLOSED IN RIGID CONDUIT FROM THE FIBER PATCH PANEL TO THE VAULT ENCLOSURE. SEE SYSTEM COMMUNICATION LAYOUT FOR NETWORK LAYOUT FOR FIBER OPTIC CONNECTIONS.
3. DEDICATED (3 WIRE) 120VAC ELECTRIC CIRCUIT FOR COMPUTER ENCLOSURE. TO BE ENCLOSED IN RIGID CONDUIT FROM AIRPORT CIRCUIT BREAKER PANEL TO COMPUTER ENCLOSURE. TERMINATED IN 2-GANG ELECTRICAL BOX, WITH DUAL DUPLEX RECEPTACLES. ENSURE ALL LOCAL ELECTRICAL CODES ARE FOLLOWED.
4. REFER TO VAULT COMMUNICATION LAYOUTS AS REQUIRED FOR CAT6 CONNECTION DIAGRAMS - INCLUDES ACE UNITS & OTHER EQUIPMENT.
5. ACE3 UPS POWER CIRCUIT - SEE ACE3 POWER CONNECTION DIAGRAMS

CAUTION:

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DRAWING INFORMATION:
VAULT NODE OVERVIEW

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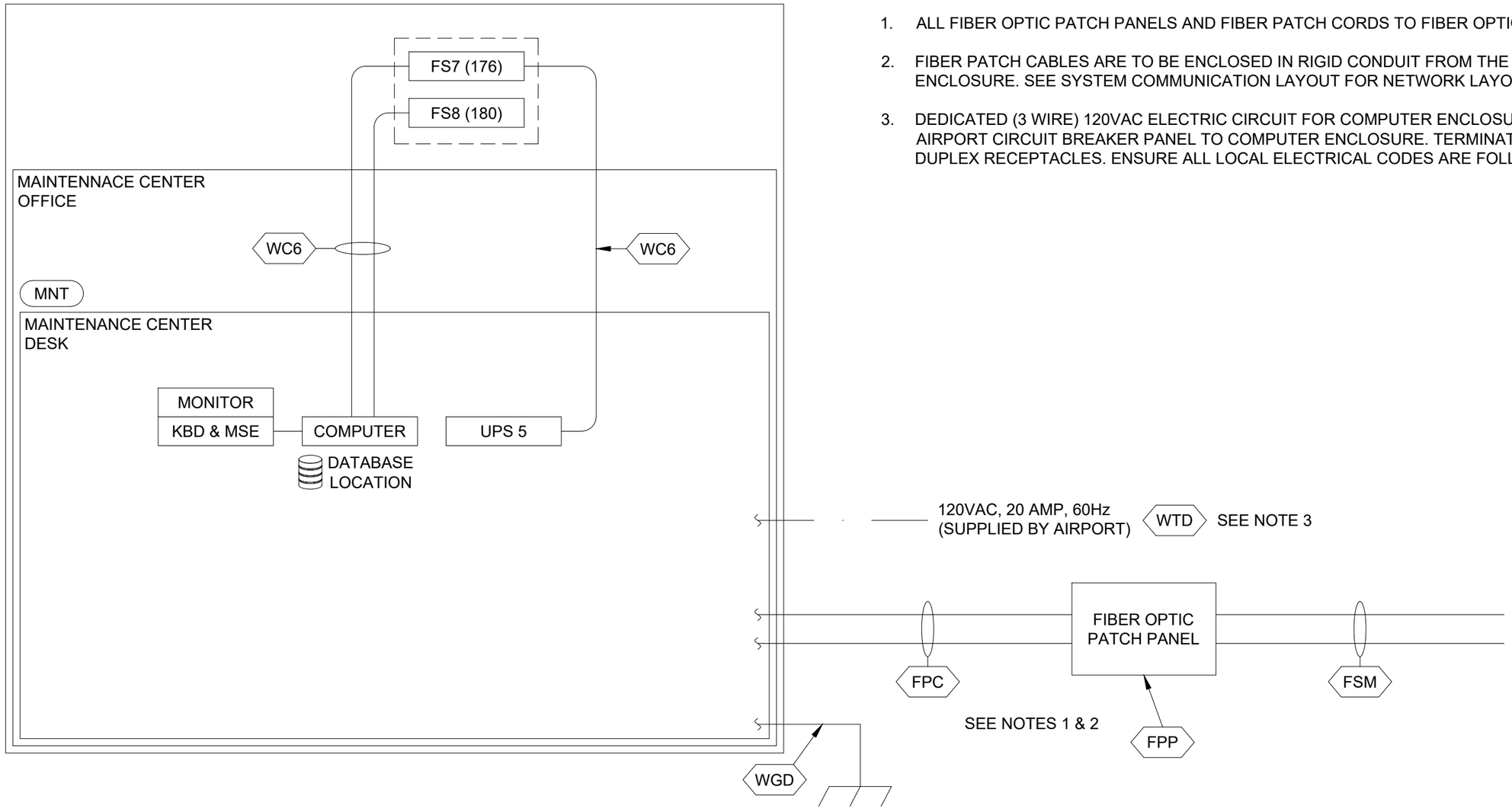
VAULT JOB SCOPE



INSTALLATION NOTES:

1. ALL FIBER OPTIC PATCH PANELS AND FIBER PATCH CORDS TO FIBER OPTIC DRIVERS SUPPLIED BY CONTRACTOR.
2. FIBER PATCH CABLES ARE TO BE ENCLOSED IN RIGID CONDUIT FROM THE FIBER PATCH PANEL TO THE VAULT ENCLOSURE. SEE SYSTEM COMMUNICATION LAYOUT FOR NETWORK LAYOUT FOR FIBER OPTIC CONNECTIONS.
3. DEDICATED (3 WIRE) 120VAC ELECTRIC CIRCUIT FOR COMPUTER ENCLOSURE. TO BE ENCLOSED IN RIGID CONDUIT FROM AIRPORT CIRCUIT BREAKER PANEL TO COMPUTER ENCLOSURE. TERMINATED IN 2-GANG ELECTRICAL BOX, WITH DUAL DUPLEX RECEPTACLES. ENSURE ALL LOCAL ELECTRICAL CODES ARE FOLLOWED.

CAUTION:

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DRAWING INFORMATION:
ARFF NODE OVERVIEW

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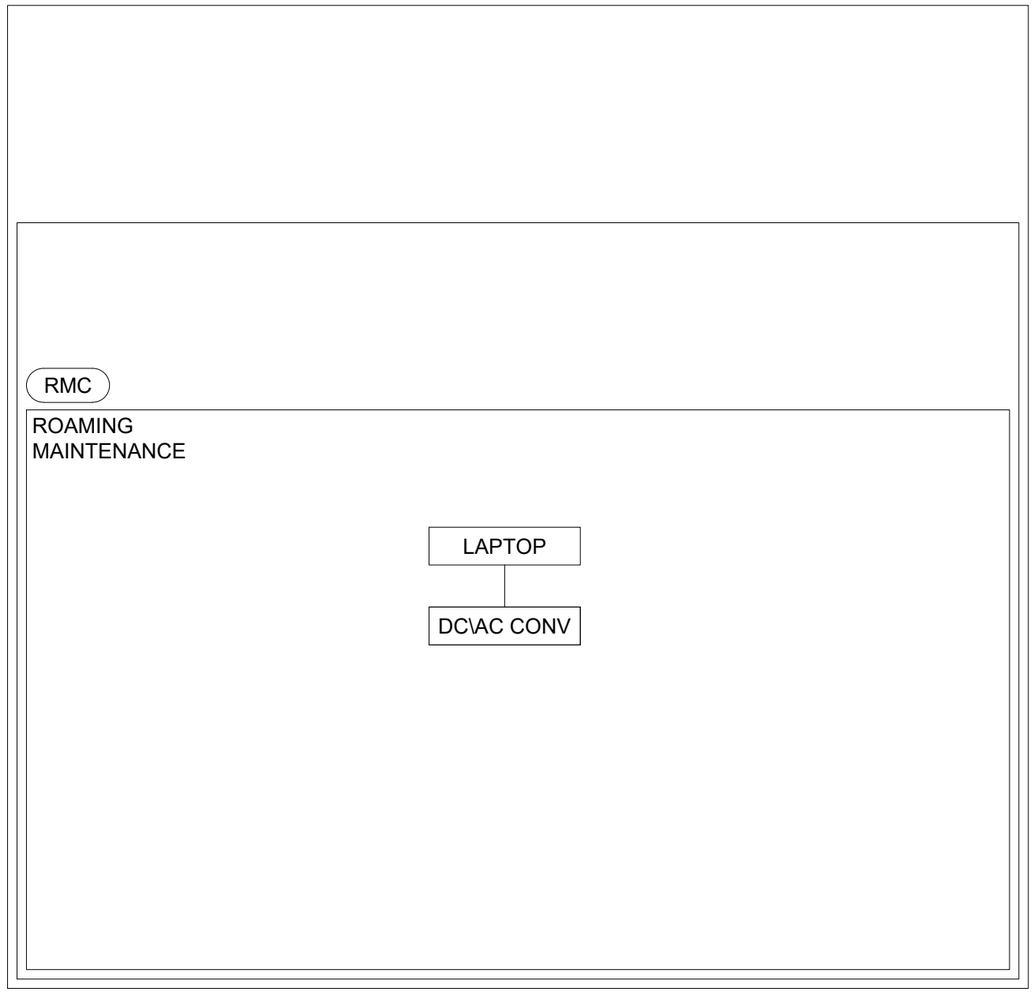
ARFF JOB SCOPE

ROAMING MAINTENANCE



INSTALLATION NOTES:

1. AIRPORT TO SUPPLY NETWORK CARD.

CAUTION:

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DRAWING INFORMATION:
LAPTOP NODE OVERVIEW

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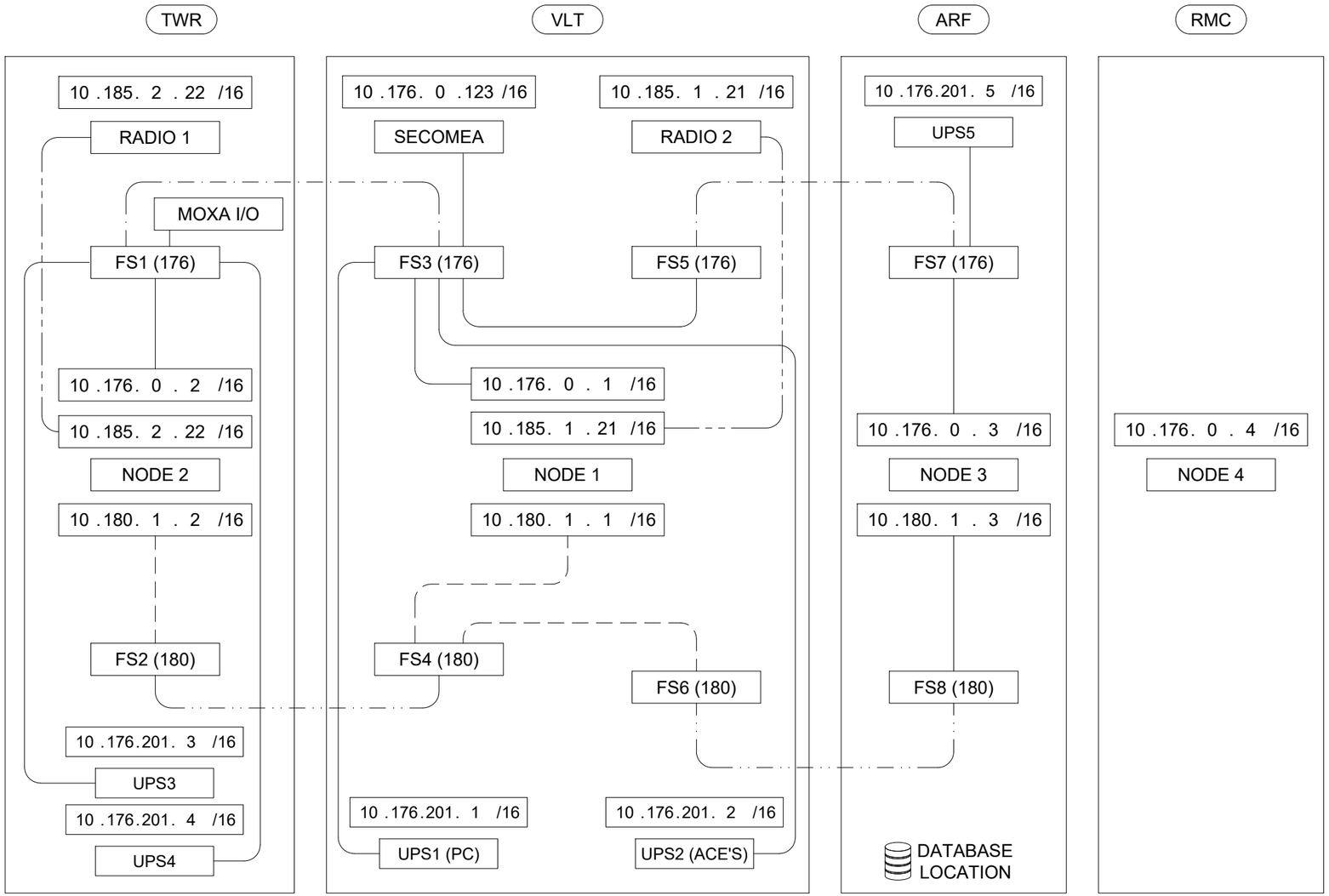
LAPTOP JOBE SCOPE



COMMUNICATION LINK LEGEND	
———	176 CAT6
— — — — — — — — — — — —	180 CAT6
— · — · — · — · — · — · —	176 FIBER
— · — · — · — · — · — · —	180 FIBER
— - - — - - — - - — - - —	185 RADIO

COMMUNICATION LINK NOTES:

1. FIBER OPTIC PATCH PANELS ARE NOT SHOWN HERE FOR CLARITY.
2. THIS IS A COMMUNICATION OVERVIEW PAGE, THE INTENT IS TO ASSIST IN INSTALLATION AND TROUBLESHOOTING AS NEEDED.

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DRAWING INFORMATION:
NETWORK TOPOLOGY

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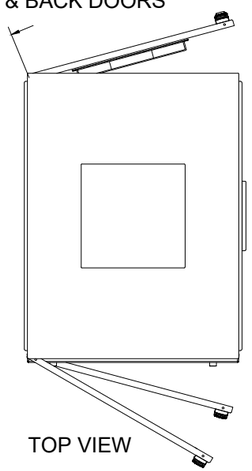
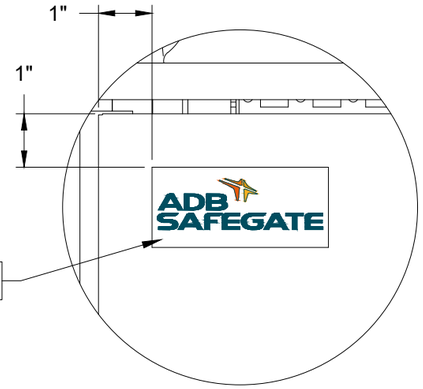
COMMUNICATIONS OVERVIEW

TO OPEN DOOR FULLY &
HAVE ROOM TO WORK
REQUIRES A MINIMUM 26"
OF CLEARANCE

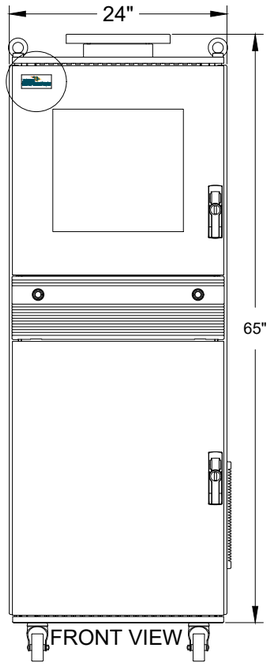
FRONT & BACK DOORS



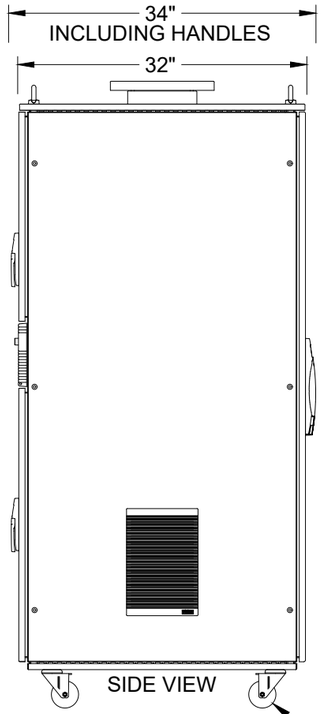
TOP VIEW



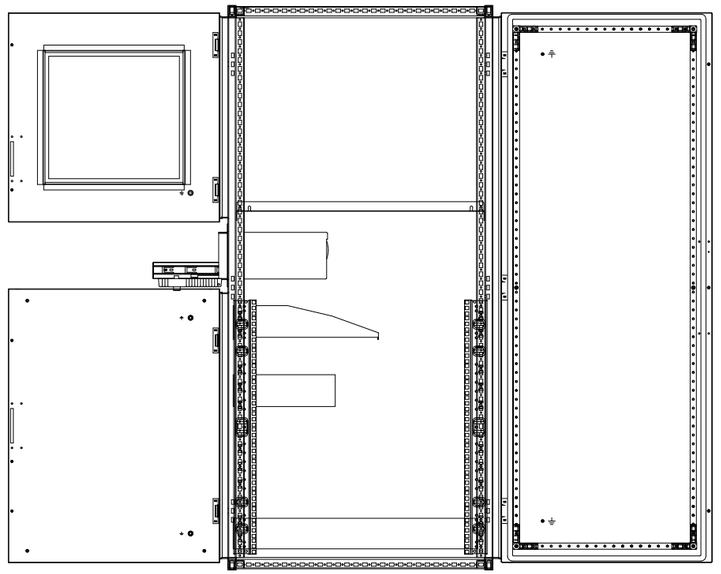
42A0513	ADB LABEL 1.5 X 3.3" PMS298 7 Cool Gray



FRONT VIEW



SIDE VIEW



SIDE VIEW - DOORS OPEN
& SIDE PANELS REMOVED

56A0315	CASTERS, SET OF 4, PROLINE

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DRAWING INFORMATION:
TOWER ASSEMBLY
ENCLOSURE DETAILS

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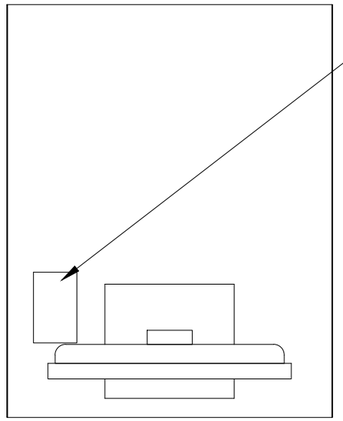
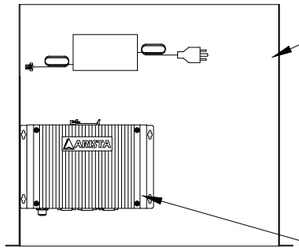
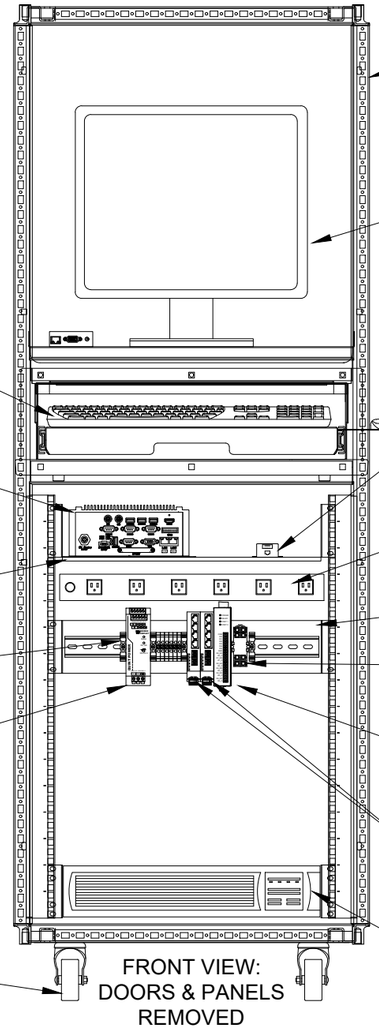
ALC-ESD-2401-TWR01



105A1052	VIDEO EXTENDER LONGVIEW W/ AUDIO
72A0290	RJ45 ETHERNET CONNECTORS



56A0687	2U 16" UNIVERSAL RACK MOUNT SHELF
44A7656/ATW10	ARISTA INDUSTRIAL COMPUTER WIN10



FRONT VIEW:
DOORS & PANELS
REMOVED

56A0430	HOFFMAN BASE ENCLOSURE WITH SHELF
105A0455	POWER CORD 6.5FT 10AMP 125V

105A0630/19T	19" LCD, MONITOR

105A0500/16USB	KEYBOARD PC-AT 101 KEYS 16.5"

105A0679	MOUSE, OPTICAL, USB & PS2

44A7656/ATW10	ARISTA INDUSTRIAL COMPUTER WIN10
105A1020	USB ETHERNET ADAPTER

105A1076	POWER OVER ETHERNET MODULE 48VDC
105A1209/5	CAT 6 ETHERNET CABLE 5 FT

56A0687	2U 16" UNIVERSAL RACK MOUNT SHELF

105A1180	RACKMOUNT POWER BAR 8 RECEPTACLE

INSTALLED ON RACK ANGLE IN BACK OF ENCLOSURE

105A1205	19 INCH RACK MOUNT DIN RAIL BRKT

72A0217/1	TERMINAL BLOCK END CLAMP 10MM

49A0252	RELAY SOCKET 8 BLADE RAIL MNT
53A0231	RELAY DPDT 15A 24VDC COIL

105A1163	MOXA 6 DI 6 RELAY OUT MODULE
105A1209/1	CAT 6 ETHERNET CABLE 1 FT

F039	POWER SUPPLY, 10A, 24VDC
105A0455	POWER CORD 6.5FT 10AMP 125V

C075	SWITCH, UNMANAGED, 4TX/1FX-SM SC
105A1209/5	CAT 6 ETHERNET CABLE 5 FT

105A0987/100R	UPS, 1000VA 120V, RM, 2U, LCD
105A0988/01	UPS NETWORK MONITORING CARD 2
105A1209/5	CAT 6 ETHERNET CABLE 5 FT

56A0315	CASTERS, SET OF 4, PROLINE

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DRAWING INFORMATION:
TOWER ASSEMBLY
ENCLOSURE HARDWARE LAYOUT

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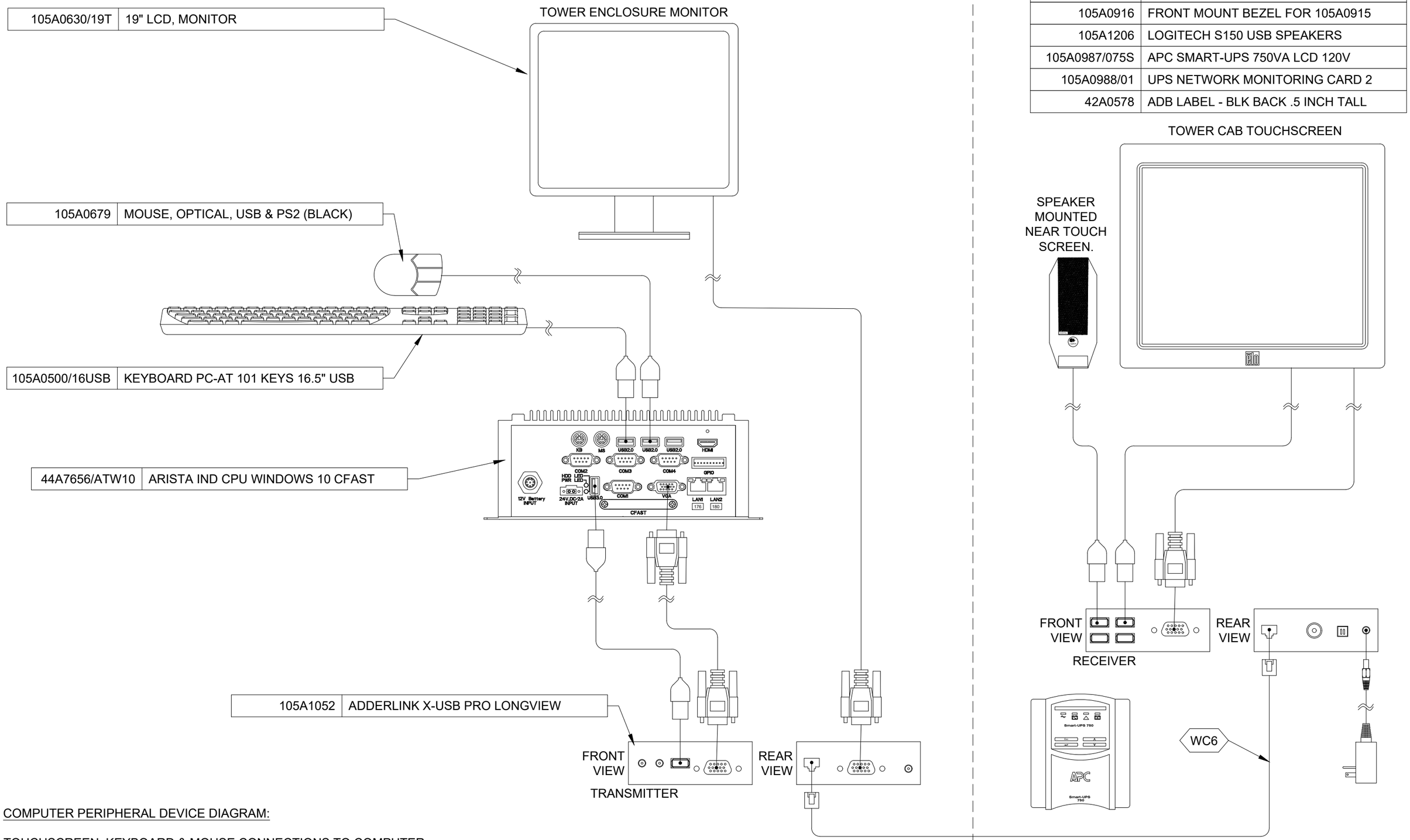
ALC-ESD-2401-TWR01

105A0915	TOUCH SCREEN LCD 19"
105A0916	FRONT MOUNT BEZEL FOR 105A0915
105A1206	LOGITECH S150 USB SPEAKERS
105A0987/075S	APC SMART-UPS 750VA LCD 120V
105A0988/01	UPS NETWORK MONITORING CARD 2
42A0578	ADB LABEL - BLK BACK .5 INCH TALL



COMPUTER PERIPHERAL DEVICE DIAGRAM:

TOUCHSCREEN, KEYBOARD & MOUSE CONNECTIONS TO COMPUTER

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DRAWING INFORMATION:

TOWER ASSEMBLY
PERIPHERAL DEVICE &
VIDEO EXTENSION CONNECTION DIAGRAM

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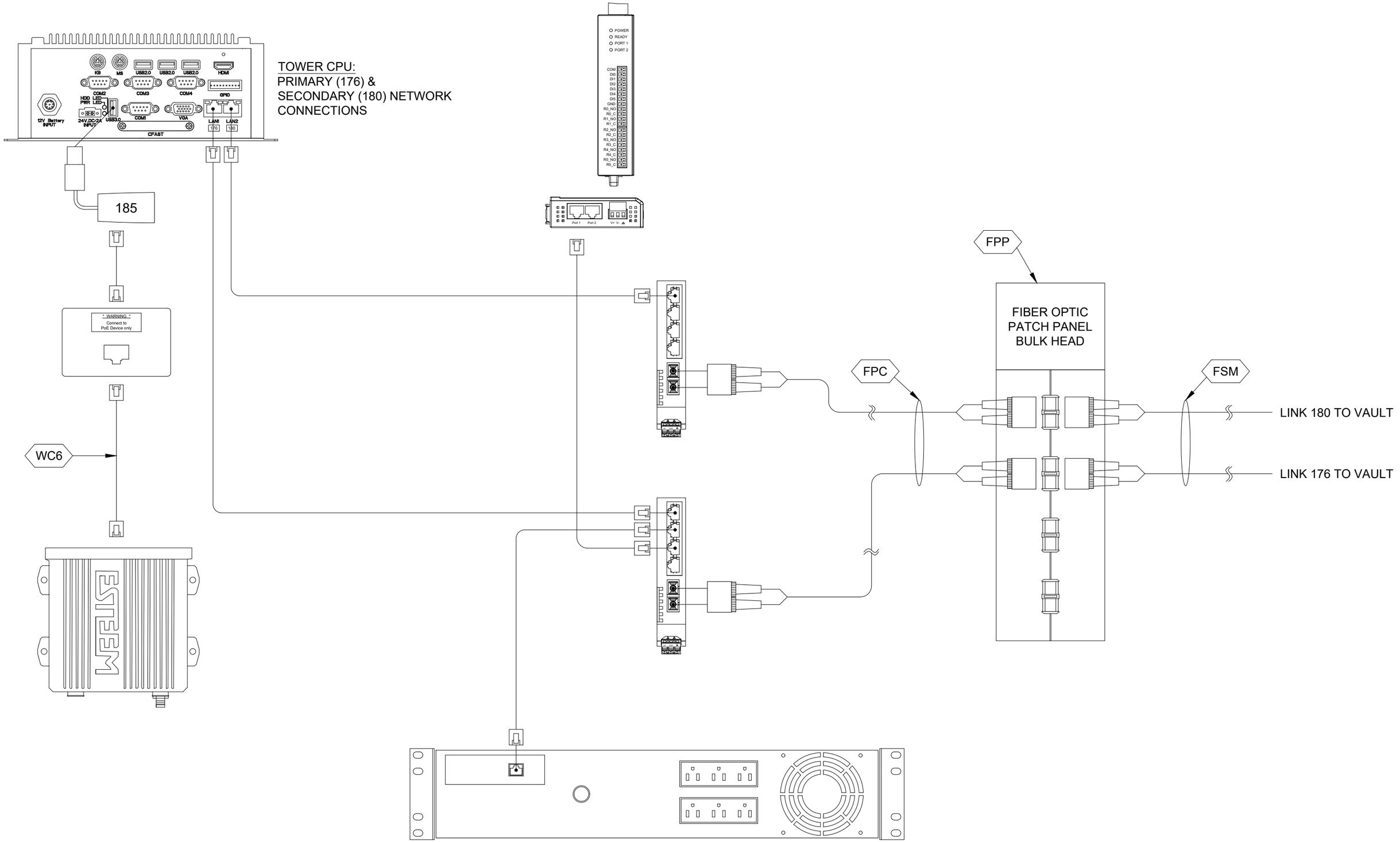

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DRAWING INFORMATION:

TOWER ASSEMBLY
COMMUNICATION LINK DIAGRAM
& NETWORK CONNECTIONS

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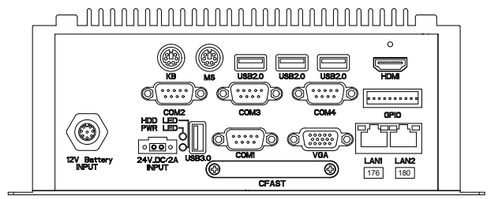
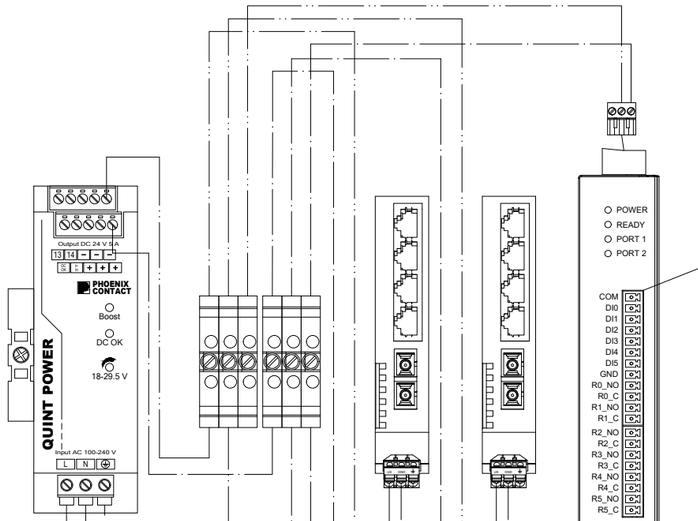
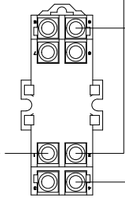
ALC-ESD-2401-TWR01

WIRE TYPE CHART	
LINE	———
NEUTRAL	— · — · — · —
GROUND	— — — — — —
+24 VDC	——·——·——
DC COMMON	——·——·——

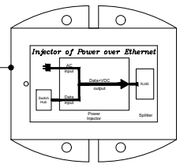






BEACON CONTROL

BEACON VOLTAGE SOURCE
(SUPPLIED BY AIRPORT)



THERMOSTAT
(ENCLOSURE FAN)

MONITOR

RB2

120VAC, 20 AMP, 60Hz
(SUPPLIED BY AIRPORT)

WTD

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DRAWING INFORMATION:
TOWER ASSEMBLY
COMPONENT POWER WIRING DETAILS

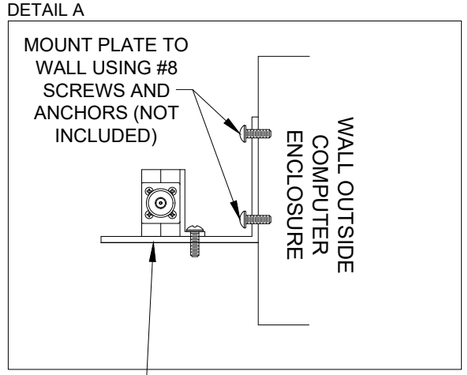
SET REVISION:	DRAWN BY:	SET SHEET NUMBER:
A		14 OF 37
	DRAWN DATE: 19 AUG 24	PAGE NUMBER: 5 OF 6

ALC-ESD-2401-TWR01

NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR ALL MATERIAL REQUIRED TO MOUNT ANTENNA INCLUDING MAST, CABLES AND CONNECTORS. CONTRACTOR TO REFERENCE INSTALLATION INSTRUCTION MANUAL.
2. CONTRACTOR TO DETERMINE THE LENGTH OF ANTENNA CABLE (CABLE DISTANCE BETWEEN MOUNTING OF LIGHTNING ARRESTOR AND ANTENNA). ADB REQUIRES WRITTEN NOTIFICATION OF LENGTHS.
3. THE TOTAL COMBINED LENGTH OF ANTENNA NOT TO EXCEED 75FT.
4. IF ANTENNA IS MOUNTED TO A MAST, GROUND MAST USING A PIPE GROUND CLAMP.

DETAIL A



105A0451	ANTENNA 900MHz OMNI DIRECTIONAL

BUILDING INTERIOR EXTERIOR

N - FEMALE
N - MALE

SBC MAS (IF REQUIRED)

SBC CLP SEE NOTE 4

105A0489/900	LIGHTNING ARREST ANT 900MHz
60A3189	COPPER GRND PLT 900MHz LIGHTNING AR

105A0489/W	ANTENNA CABLE WATERPROOFING KIT

89A0251	WIRE, COPPER BRAID, 13/64", TUBULAR
72A0010	ALUM GROUND LUG, FOR AL or CU COND

INSERT BRAIDED SLEEVE INTO GROUND LUG

N - MALE N - FEMALE

DETAIL A

LIGHTNING ARRESTOR

PROTECTED SURGE

105A0474/60	CABLE ANT LMR-400 SNM-SNF 60'

SEE NOTE 2

8"-10" DRIP LOOP

105A0479/02	CABLE ANT LMR-400 SNM-RP-TNC 2'

DISTANCE NOT TO EXCEED 2'

RP - TNC

RADIO

SBC WGD

MOUNT TO BUILDING GROUND SYSTEM

EARTH GROUND

105A0920/900	ESTEEM 900MHZ GHZ ETHERNET RADIO

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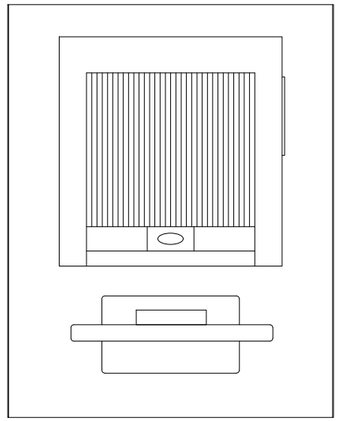
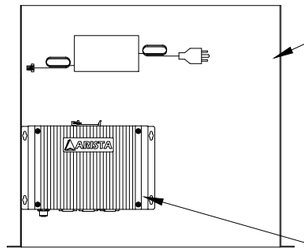
DRAWING INFORMATION:
TOWER ASSEMBLY
RADIO ASSEMBLY INSTALLATION DETAILS

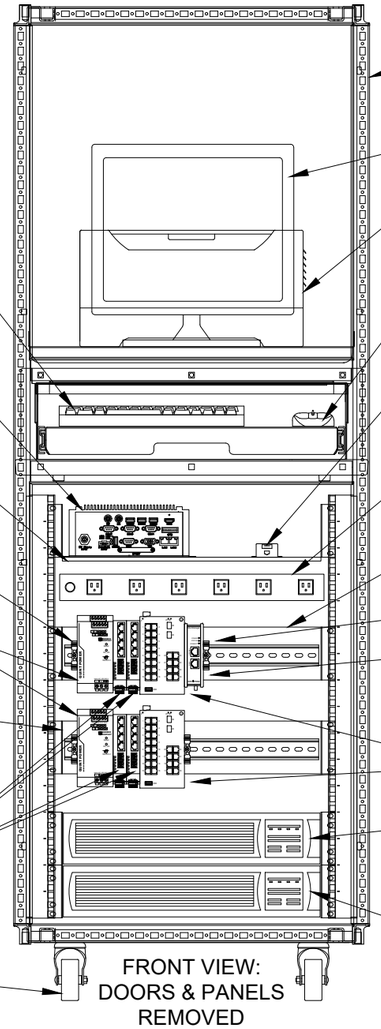
SET REVISION:	DRAWN BY:	SET SHEET NUMBER:
A		15 OF 37
	DRAWN DATE: 19 AUG 24	PAGE NUMBER: 6 OF 6

ALC-ESD-2401-TWR01





56A0687	2U 16" UNIVERSAL RACK MOUNT SHELF
44A7656/ATW10	ARISTA INDUSTRIAL COMPUTER WIN10



56A0430	HOFFMAN BASE ENCLOSURE WITH SHELF
105A0455	POWER CORD 6.5FT 10AMP 125V
105A0630/19T	19" LCD, MONITOR
105A0347	LASER PRINTER B&W
105A1217	10' USB 2.0 A TO B CABLE M/M
105A0679	MOUSE, OPTICAL, USB & PS2
105A1076	POWER OVER ETHERNET MODULE 48VDC
105A1209/1	CAT 6 ETHERNET CABLE 1 FT
105A1180	RACKMOUNT POWER BAR 8 RECEPTACLE

INSTALLED ON RACK ANGLE IN BACK OF ENCLOSURE

105A1205	19 INCH RACK MOUNT DIN RAIL BRKT
72A0217/1	TERMINAL BLOCK END CLAMP 10MM
105A1154	SITE MANAGER INTERNET ACCESS MOD
105A1143	WALL ADAPTER POWER SPLY 12VDC 1A
107A0084	LINK MANAGER CLIENT SOFTWARE
105A1037	HIRSCHMAN UNMGD INDSTRL ETH SW 24
105A0987/100R	UPS, 1000VA 120V, RM, 2U, LCD
105A0988/01	UPS NETWORK MONITORING CARD 2
105A1209/5	CAT 6 ETHERNET CABLE 5 FT
105A0987/150R	UPS, 1500VA 120V, RM, 2U, LCD
105A0988/01	UPS NETWORK MONITORING CARD 2
105A1209/5	CAT 6 ETHERNET CABLE 5 FT

105A0500/16USB	KEYBOARD PC-AT 101 KEYS 16.5"
44A7656/ATW10	ARISTA INDUSTRIAL COMPUTER WIN10
105A1020	USB ETHERNET ADAPTER
56A0687	2U 16" UNIVERSAL RACK MOUNT SHELF
72A0217/1	TERMINAL BLOCK END CLAMP 10MM
F039	POWER SUPPLY, 10A, 24VDC
105A0455	POWER CORD 6.5FT 10AMP 125V
105A1205	19 INCH RACK MOUNT DIN RAIL BRKT
C075	SWITCH, UNMANAGED, 4TX/1FX-SM SC
105A1209/5	CAT 6 ETHERNET CABLE 5 FT
105A1209/1	CAT 6 ETHERNET CABLE 1 FT
56A0315	CASTERS, SET OF 4, PROLINE

FRONT VIEW:
DOORS & PANELS
REMOVED

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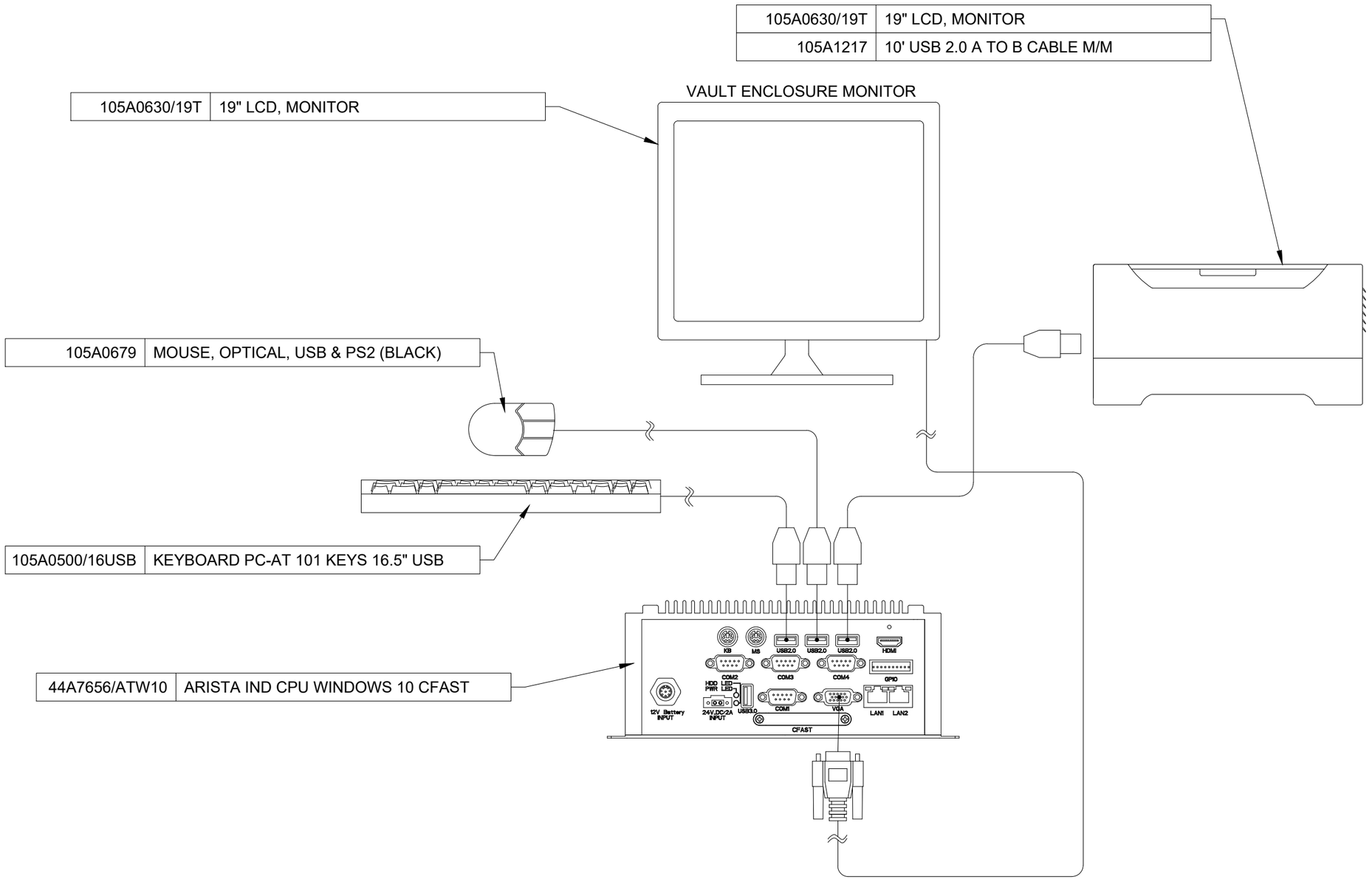
DRAWING INFORMATION:
VAULT ASSEMBLY
ENCLOSURE HARDWARE LAYOUT

SET REVISION:	DRAWN BY:	SET SHEET NUMBER:
A		16 OF 37
	DRAWN DATE: 19 AUG 24	PAGE NUMBER: 1 OF 6

ALC-ESD-2401-VLT01

COMPUTER PERIPHERAL DEVICE DIAGRAM:

TOUCHSCREEN, KEYBOARD & MOUSE CONNECTIONS TO COMPUTER



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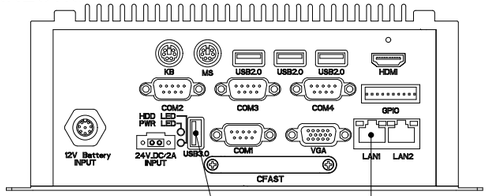
DRAWING INFORMATION:

VAULT ASSEMBLY
PERIPHERAL DEVICE CONNECTION DIAGRAM

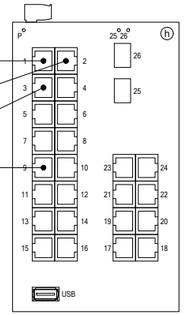
SET REVISION:	DRAWN BY:	SET SHEET NUMBER:
A		17 OF 37
	DRAWN DATE: 19 AUG 24	PAGE NUMBER: 2 OF 6

ALC-ESD-2401-VLT01

VAULT CPU:
PRIMARY (176) NETWORK
CONNECTIONS



185



WC6

PORT #9 — TO J19 ACE #1
PORT #10 — TO J19 ACE #2
PORT #11 — TO J19 ACE #3
PORT #12 — TO J19 ACE #4
PORT #13 — TO J19 ACE #5
PORT #14 — TO J19 ACE #6
PORT #15 — TO J19 ACE #7
PORT #16 — TO J19 ACE #8
PORT #17 — TO J19 ACE #9
PORT #18 — TO J19 ACE #10
PORT #19 — TO J19 ACE #11
PORT #20 — TO J19 ACE #12
PORT #21 — TO J19 ACE #13
PORT #22 — TO J19 ACE #14
PORT #23 — TO J19 ACE #15
PORT #24 — TO J19 I/O ACE #200

FPP

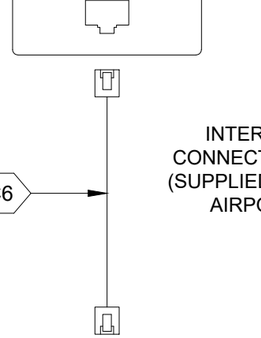
FIBER OPTIC PATCH PANEL BULK HEAD

FPC

FSM

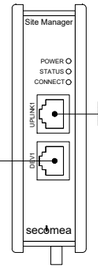
LINK 176 TO TOWER

LINK 176 TO ARFF

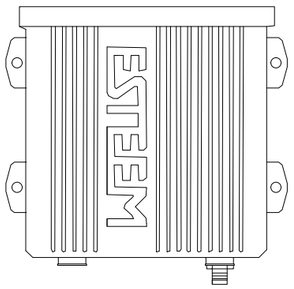


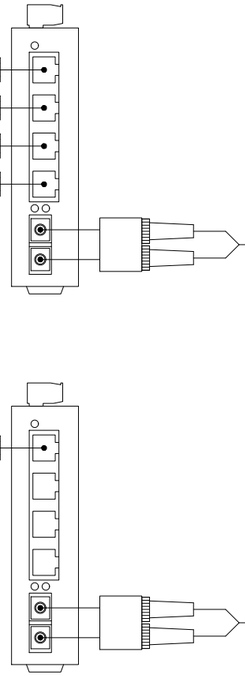
WC6

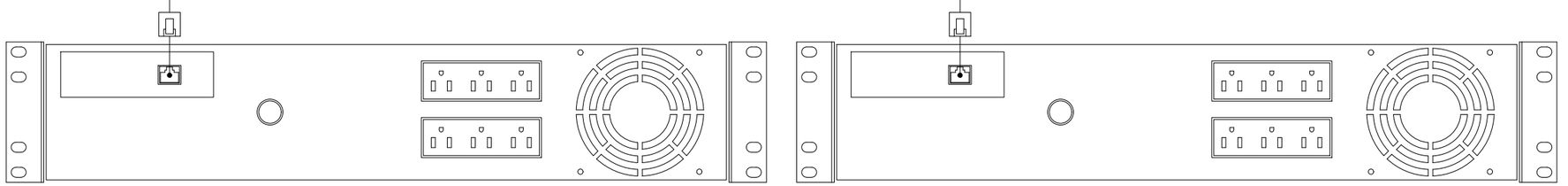
INTERNET CONNECTION (SUPPLIED BY AIRPORT)



WC6







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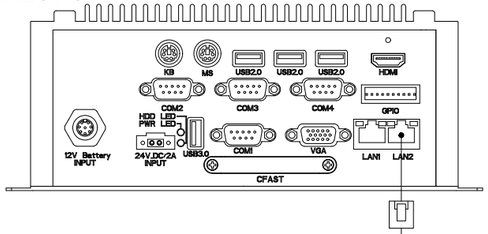
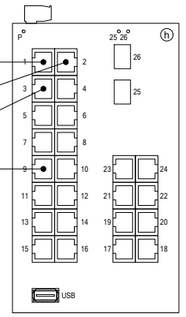
DRAWING INFORMATION:
VAULT ASSEMBLY
COMMUNICATION LINK DIAGRAM
& NETWORK CONNECTIONS

SET REVISION:	DRAWN BY:	SET SHEET NUMBER:
A		18 OF 37
	DRAWN DATE: 19 AUG 24	PAGE NUMBER: 3 OF 6

ALC-ESD-2401-VLT01

VAULT CPU:
SECONDARY (180) NETWORK
CONNECTIONS





WC6

PORT #9 — TO J27 ACE #1
PORT #10 — TO J27 ACE #2
PORT #11 — TO J27 ACE #3
PORT #12 — TO J27 ACE #4
PORT #13 — TO J27 ACE #5
PORT #14 — TO J27 ACE #6
PORT #15 — TO J27 ACE #7
PORT #16 — TO J27 ACE #8
PORT #17 — TO J27 ACE #9
PORT #18 — TO J27 ACE #10
PORT #19 — TO J27 ACE #11
PORT #20 — TO J27 ACE #12
PORT #21 — TO J27 ACE #13
PORT #22 — TO J27 ACE #14
PORT #23 — TO J27 ACE #15
PORT #24 — TO J27 I/O ACE #200

FPP

FIBER OPTIC
PATCH PANEL
BULK HEAD

FPC

FSM

LINK 180 TO TOWER

LINK 180 TO ARFF

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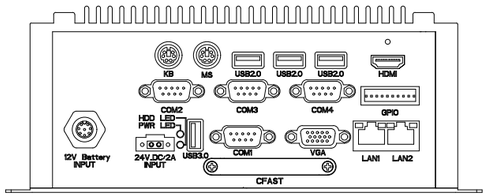
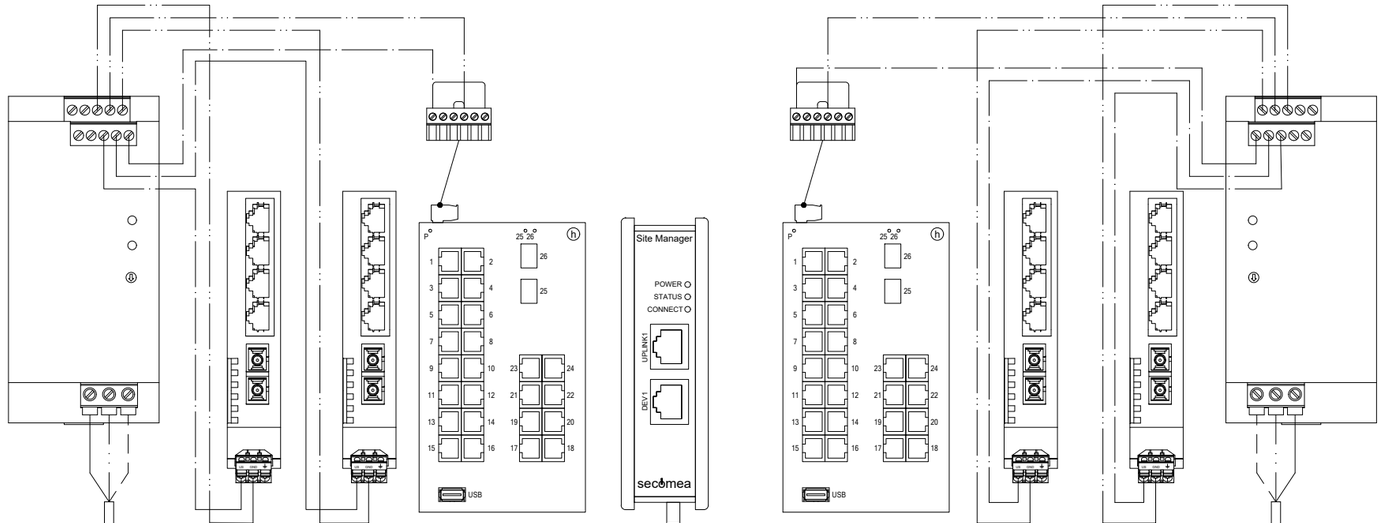
DRAWING INFORMATION:
VAULT ASSEMBLY
COMMUNICATION LINK DIAGRAM
& NETWORK CONNECTIONS

SET REVISION:	DRAWN BY:	SET SHEET NUMBER:
A		19 OF 37
	DRAWN DATE: 19 AUG 24	PAGE NUMBER: 4 OF 6

ALC-ESD-2401-VLT01

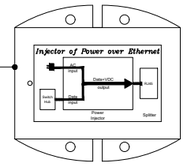
WIRE TYPE CHART	
LINE	———
NEUTRAL	— · — · — · —
GROUND	— — — — —
+24 VDC	——·——·——
DC COMMON	——·——·——





TO MONITOR

THERMOSTAT
(ENCLOSURE FAN)



120VAC, UPS
(FOR ACE UNITS)

RB4

120VAC, 20 AMP, 60Hz
(SUPPLIED BY AIRPORT)

WTD

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DRAWING INFORMATION:

VAULT ASSEMBLY
COMPONENT POWER WIRING DETAILS

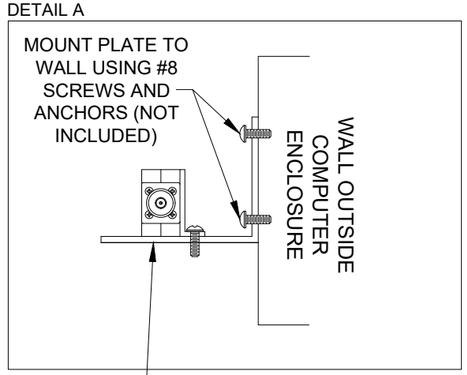
SET REVISION:	DRAWN BY:	SET SHEET NUMBER:
A		20 OF 37
	DRAWN DATE: 19 AUG 24	PAGE NUMBER: 5 OF 6

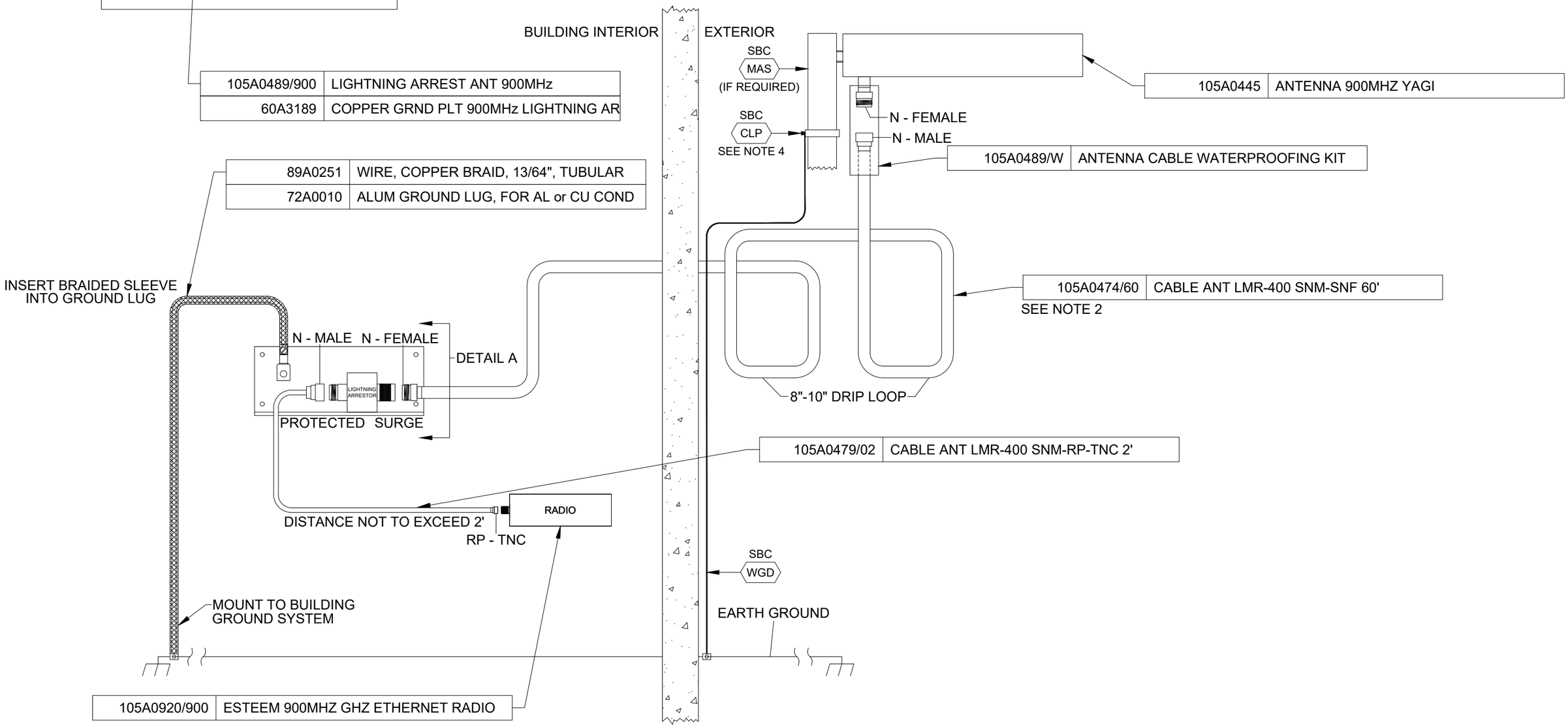
ALC-ESD-2401-VLT01

NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR ALL MATERIAL REQUIRED TO MOUNT ANTENNA INCLUDING MAST, CABLES AND CONNECTORS. CONTRACTOR TO REFERENCE INSTALLATION INSTRUCTION MANUAL.
2. CONTRACTOR TO DETERMINE THE LENGTH OF ANTENNA CABLE (CABLE DISTANCE BETWEEN MOUNTING OF LIGHTNING ARRESTOR AND ANTENNA). ADB REQUIRES WRITTEN NOTIFICATION OF LENGTHS.
3. THE TOTAL COMBINED LENGTH OF ANTENNA NOT TO EXCEED 75FT.
4. IF ANTENNA IS MOUNTED TO A MAST, GROUND MAST USING A PIPE GROUND CLAMP.

DETAIL A





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DRAWING INFORMATION:
VAULT ASSEMBLY
RADIO ASSEMBLY INSTALLATION DETAILS

SET REVISION:	DRAWN BY:	SET SHEET NUMBER:
A		21 OF 37
	DRAWN DATE: 19 AUG 24	PAGE NUMBER: 6 OF 6

ALC-ESD-2401-VLT01

CCR INDEX

CCR NUMBER	ACE™ NUMBER	ACE™ CONFIGURATION	COM CH. A	COM CH. B	CIRCUIT NAME / DESCRIPTION	CCR STEPS	CCR SIZE (KW)	CONTROL VOLTAGE	OUTPUT CURRENT	INPUT MONITORING	OUTPUT MONITORING	INPUT VOLTAGE
1	1	ACE™ 3 Combobox	10.176.50.1	10.180.50.1	TWY C	3	15	120VAC	6.6		CVM / IRMS	480 V
2	2	ACE™ 3 Integrated	10.176.50.2	10.180.50.2	APRON E	3	7.5	120VAC	6.6		CVM / IRMS	480 V
3	3	ACE™ 3 Combobox	10.176.50.3	10.180.50.3	SPARE	3	20	120VAC	6.6		CVM / IRMS	480 V
4	4	ACE™ 3 Integrated	10.176.50.4	10.180.50.4	TWY MN	3	15	120VAC	6.6		CVM / IRMS	480 V
5	5	ACE™ 3 Combobox	10.176.50.5	10.180.50.5	SPARE	3	7.5	120VAC	6.6		CVM / IRMS	480 V
6	6	ACE™ 3 Combobox	10.176.50.6	10.180.50.6	TWY DC	3	7.5	120VAC	6.6		CVM / IRMS	480 V
7	7	ACE™ 3 Combobox	10.176.50.7	10.180.50.7	TWY DE	3	20	120VAC	6.6		CVM / IRMS	480 V
8	8	ACE™ 3 Integrated	10.176.50.8	10.180.50.8	APRON W	3	7.5	120VAC	6.6		CVM / IRMS	480 V
9	9	ACE™ 3 Integrated	10.176.50.9	10.180.50.9	TWY J	3	10	120VAC	6.6		CVM / IRMS	480 V
10	10	ACE™ 3 Integrated	10.176.50.10	10.180.50.10	TWY MS	3	20	120VAC	6.6		CVM / IRMS	480 V
11	11	ACE™ 3 Integrated	10.176.50.12	10.180.50.12	RWY 6 24	5	30	120VAC	6.6		CVM / IRMS	480 V
12	12	ACE™ 3 Integrated	10.176.50.13	10.180.50.13	RWY 18 36	5	30	120VAC	6.6		CVM / IRMS	480 V
13	13	ACE™ 3 Combobox	10.176.50.14	10.180.50.14	SPARE	5	30	120VAC	6.6		CVM / IRMS	480 V
14	14	ACE™ 3 Combobox	10.176.50.15	10.180.50.15	TWY DW	3	7.5	120VAC	6.6		CVM / IRMS	480 V

MISCELLANEOUS CONTROL & MONITORING INDEX

ACE™ NUMBER	ACE™ CONFIGURATION	IP0 ADDRESS	IP1 ADDRESS	CONTROL POINT NAME / DESCRIPTION	ACE™ SLOT	I/O CHANNEL	I/O TYPE	I/O DESCRIPTION & RATING	COMMENTS & NOTES
200	ACE™ 3 Wall Mount	10.176.50.200	10.180.50.200	PRC-3 CLICKS	0	0	INPUT	OPTO-ISOLATED ; DIGITAL INPUT ; 120VAC / 24VDC	
200	ACE™ 3 Wall Mount	10.176.50.200	10.180.50.200	PRC-5 CLICKS	0	1	INPUT	OPTO-ISOLATED ; DIGITAL INPUT ; 120VAC / 24VDC	
200	ACE™ 3 Wall Mount	10.176.50.200	10.180.50.200	PRC-7 CLICKS	0	2	INPUT	OPTO-ISOLATED ; DIGITAL INPUT ; 120VAC / 24VDC	
200	ACE 3 Combobox	10.176.50.100	10.180.50.100	GENERATOR ON/OFF	0	0	OUTPUT	ACE DRY CONTACT CLOSURE ; 250VAC ; MAX 1A	
200	ACE™ 3 Wall Mount	10.176.50.200	10.180.50.200	UTILITY ONLINE	1	8	INPUT	OPTO-ISOLATED ; DIGITAL INPUT ; 120VAC / 24VDC	
200	ACE™ 3 Wall Mount	10.176.50.200	10.180.50.200	GENERATOR ONLINE	1	9	INPUT	OPTO-ISOLATED ; DIGITAL INPUT ; 120VAC / 24VDC	
200	ACE™ 3 Wall Mount	10.176.50.200	10.180.50.200	GENERATOR ALARM	1	10	INPUT	OPTO-ISOLATED ; DIGITAL INPUT ; 120VAC / 24VDC	
-	MOXA I/O	10.176.0.101	-	BEACON CONTROL	-	O0	OUTPUT	MOXA; DRY CONTACT CLOSURE; 24VDC; MAX 1A	VIA TOWER
-	MOXA I/O	10.176.0.101	-	BEACON MONITOR	-	I0	INPUT	MOXA; DIGITAL INPUT; 24VDC; 2.5mA	VIA TOWER

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DRAWING INFORMATION:
CCR & MISCELLANEOUS I/O IDEX

SET REVISION:	DRAWN BY:	SET SHEET NUMBER:
A		22 OF 37
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CCR & MISC I/O INDEX

UPS POWER DAISY CHAIN TO ACE UNITS

WUP

WUP

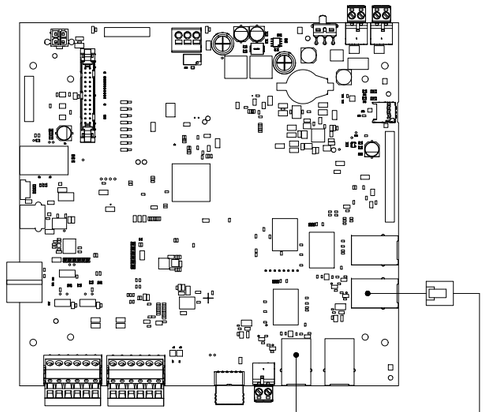
TERMINALS INSIDE CCR — GND | N | XCP

TERMINALS INSIDE CCR — GND | N | XCP

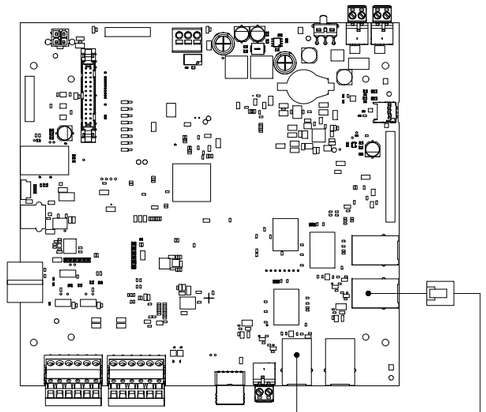
TERMINALS INSIDE CCR — GND | N | XCP

TERMINALS INSIDE CCR — GND | N | XCP

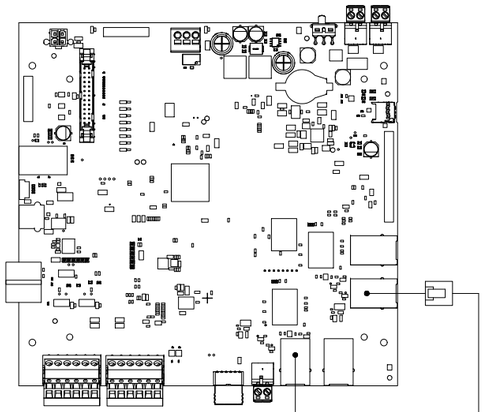
ACE 3 COMBO BOX CCR #10



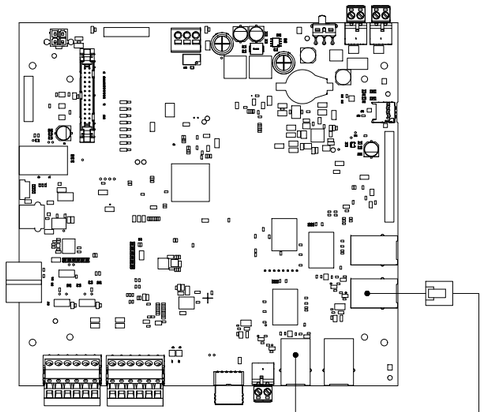
ACE 3 COMBO BOX CCR #11



ACE 3 COMBO BOX CCR #20



I/O ACE 3 #201



FROM 176 SWITCH / HUB

FROM 180 SWITCH / HUB

FROM 176 SWITCH / HUB

FROM 180 SWITCH / HUB

WC6 QTY 2 - FOR EACH ACE UNIT

FROM 176 SWITCH / HUB

FROM 180 SWITCH / HUB

FROM 176 SWITCH / HUB

FROM 180 SWITCH / HUB

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DRAWING INFORMATION:

TYPICAL ETHERNET ACE COMMUNICATION WIRING

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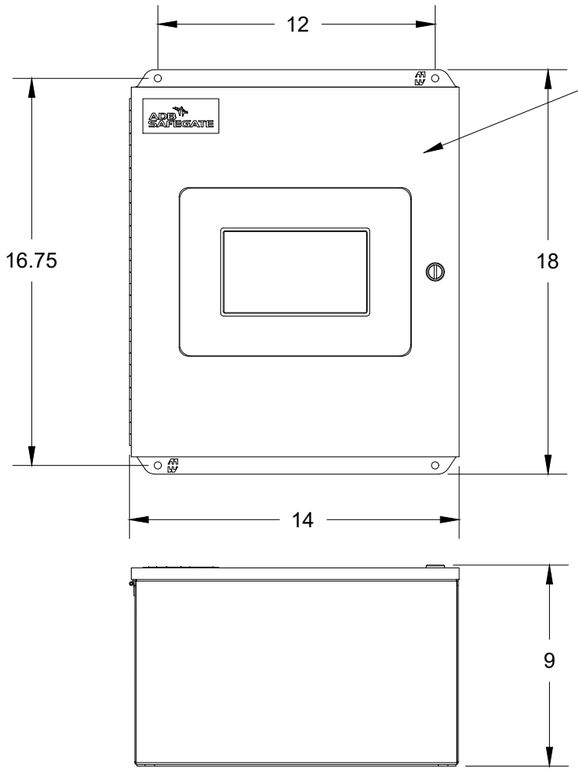
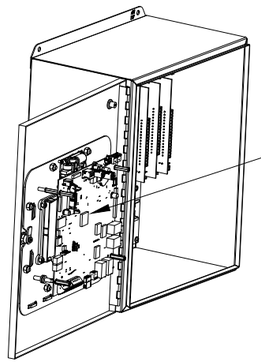
ACE WIRING

I/O ACE3:
ENCLOSURE & MOUNTING DIMENSIONS



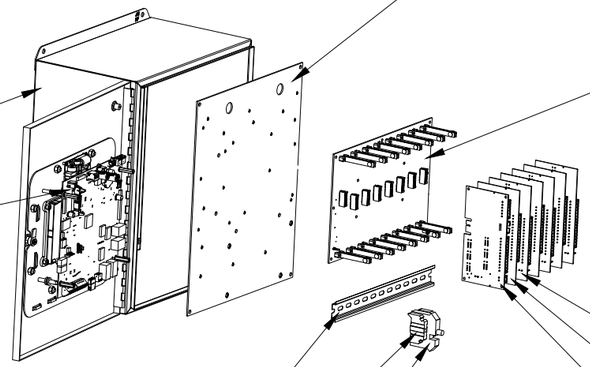
ACE3-CA6BD0010001	ACE3 COMBO AC 66A C+I

I/O ACE3 DOOR OPEN



44A7733	ACE3 DOOR MOUNT ASSEMBLY
< OR >	
44A7733/DC	ACE3 DOOR MOUNT ASSEMBLY DC PWR

I/O ACE3 EXPLODED VIEW



60A4738	ACE3 STAND ALONE BACKPLATE
44A7742	ACE3 I/O BACKPLACE PCBA
56A0691	ACE3 STAND ALONE ENCLOSURE
44A7694	PCB ASSY, ACE3 Control PCB
RM0251	MTG RAIL 7.5MM U-SHAPE
72A0217/1	TERMINAL BLOCK END CLAMP 10MM
47A0159/2	FUSE HOLDER RAIL MOUNT W/NEON
47A0181	FUSE 3.2A 250V SB 1/4 X 1-1/4
44A7705	ACE3 I/O CAGE OUPUT CARD PCBA
44A7704	ACE3 I/O CAGE INPUT CARD PCBA
44A7753	PCB ASSY, DEFAULT EXPANSION CARD

NOTE: BOTH THE NUMBER AND ORDER OF INPUT & OUTPUT CARDS MAY VARY.

AS SHOWN - 3 INPUT AND 3 OUTPUT CARDS
ORDER: INPUT, OUTPUT, INPUT, OUTPUT, INPUT, OUTPUT
INPUT CARDS ARE YELLOW
OUTPUT CARDS ARE RED

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DRAWING INFORMATION:
I/O ACE ASSEMBLY DETAILS

SET REVISION:	DRAWN BY:	SET SHEET NUMBER:
A		24 OF 37
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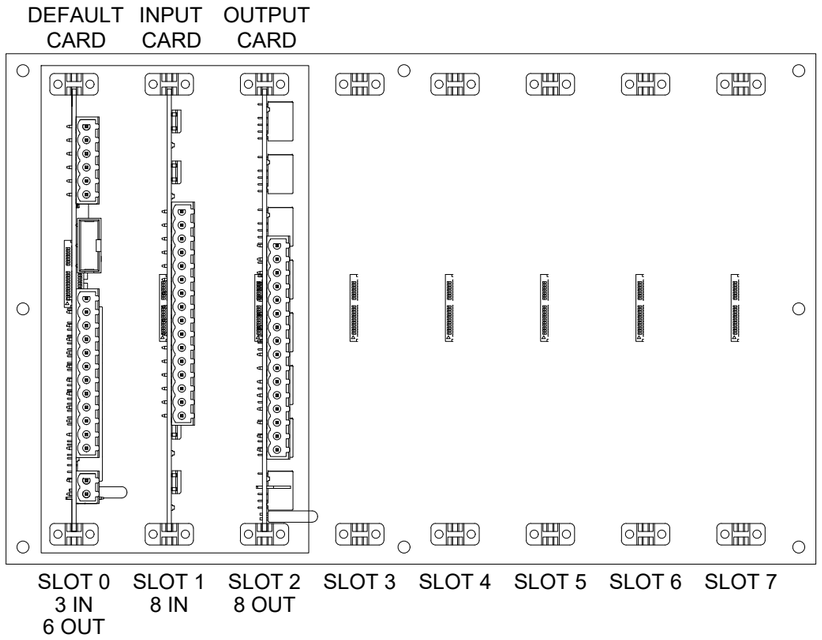
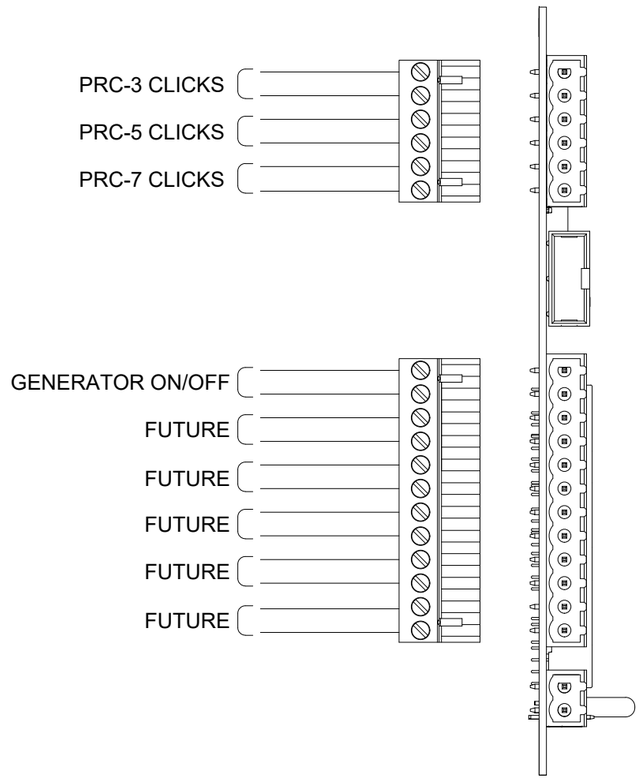
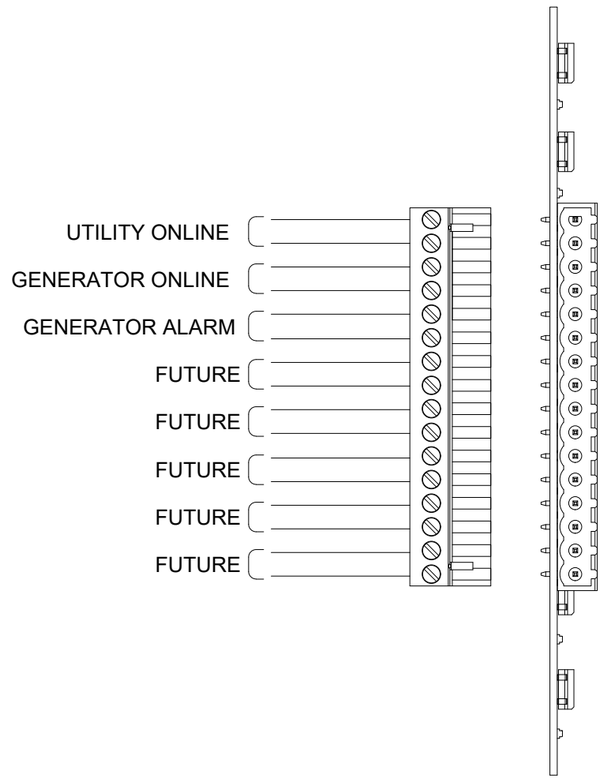
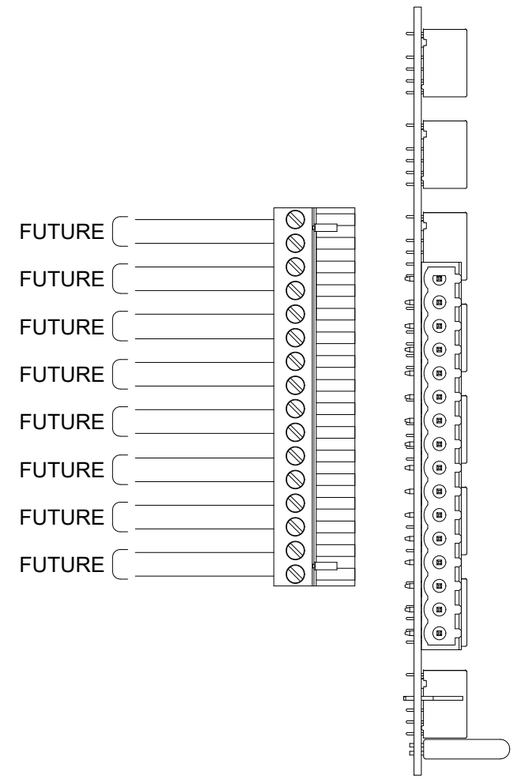
I/O ACE









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DRAWING INFORMATION:
I/O ACE WIRING DIAGRAM

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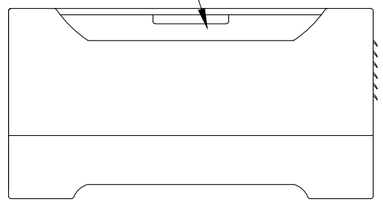
I/O ACE

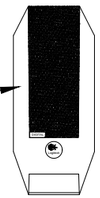
105A0987/075S	APC SMART-UPS 750VA LCD 120V
105A1209/10	CAT 6 SHIELDED ETHERTNET CABLE 10FT
105A0988/01	UPS NETWORK MONITORING CARD 2

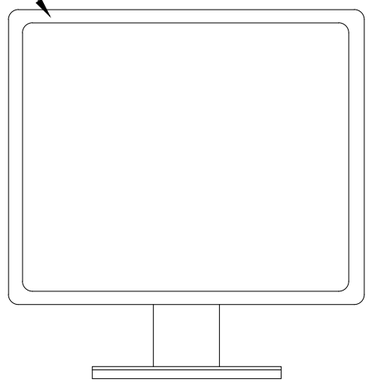
105A0630/19T	19" LCD, MONITOR

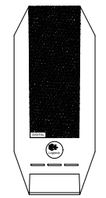
105A0347	LASER PRINTER B&W

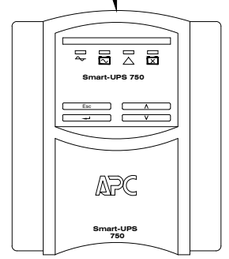


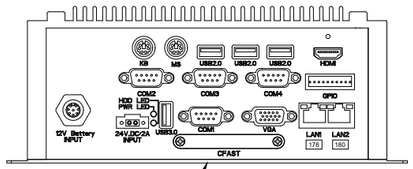
105A1206	LOGITECH S150 USB SPEAKERS





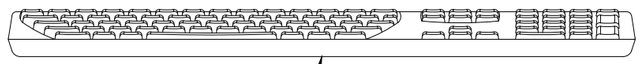






44A7656/ATW10	ARISTA IND CPU WINDOWS 10 CFAST
60A4042	VESA MOUNT PLATE ARISTA COMPUTER

COMPUTER TO BE MOUNTED TO BACK OF COMPUTER USING VESA MOUNT PLATE.



105A0500/16USB	KEYBOARD PC-AT 101 KEYS 16.5" USB

105A0679	MOUSE, OPTICAL, USB & PS2 (BLACK)

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DRAWING INFORMATION:

MAINTENANCE CENTER ASSEMBLY
ASSEMBLY COMPONEMENTS

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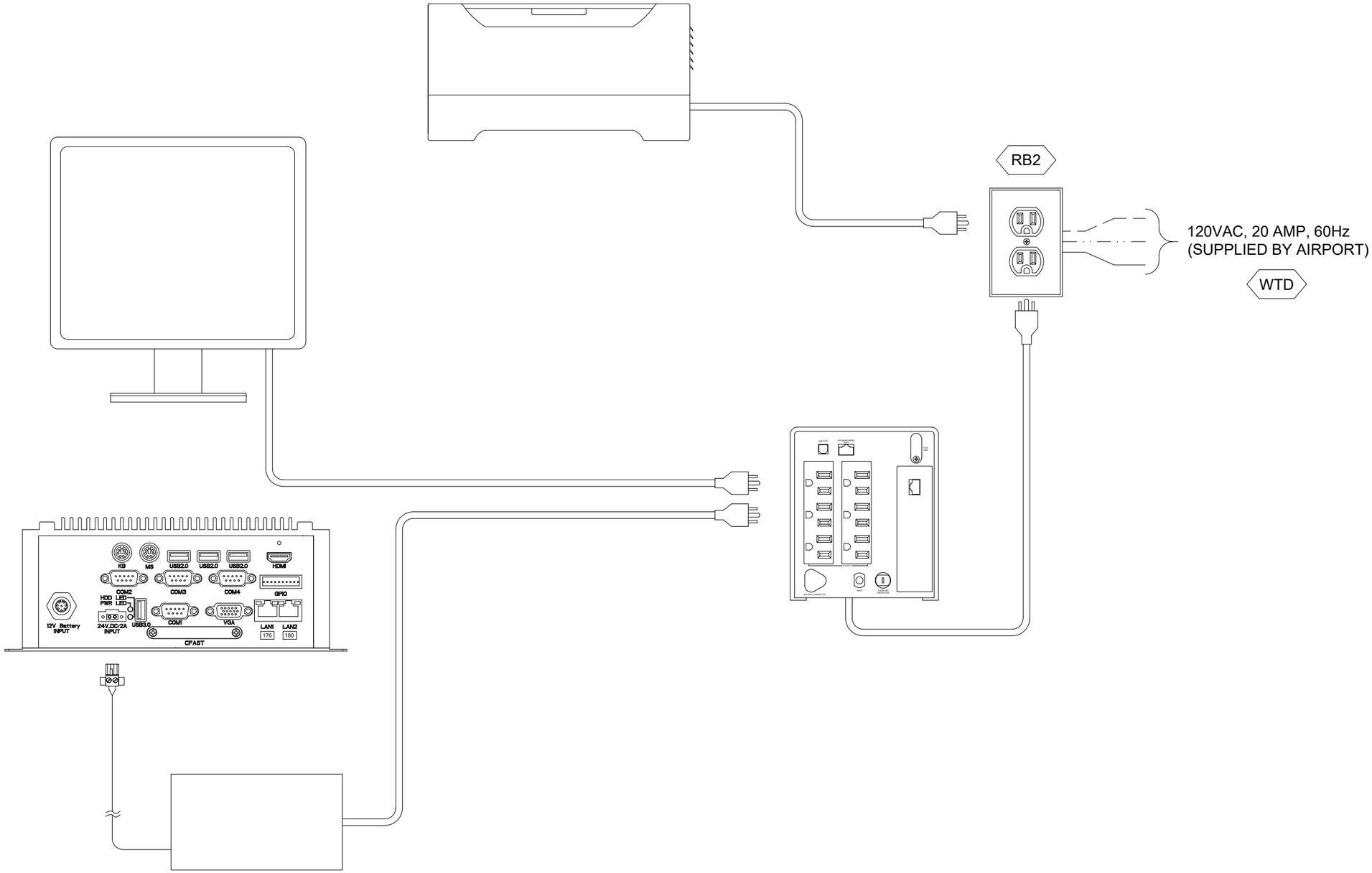
ALC-ESD-2401-MNT01



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DRAWING INFORMATION:

MAINTENANCE CENTER ASSEMBLY
COMPONEMENT POWER WIRING DETAILS

SET REVISION:	DRAWN BY:	SET SHEET NUMBER:
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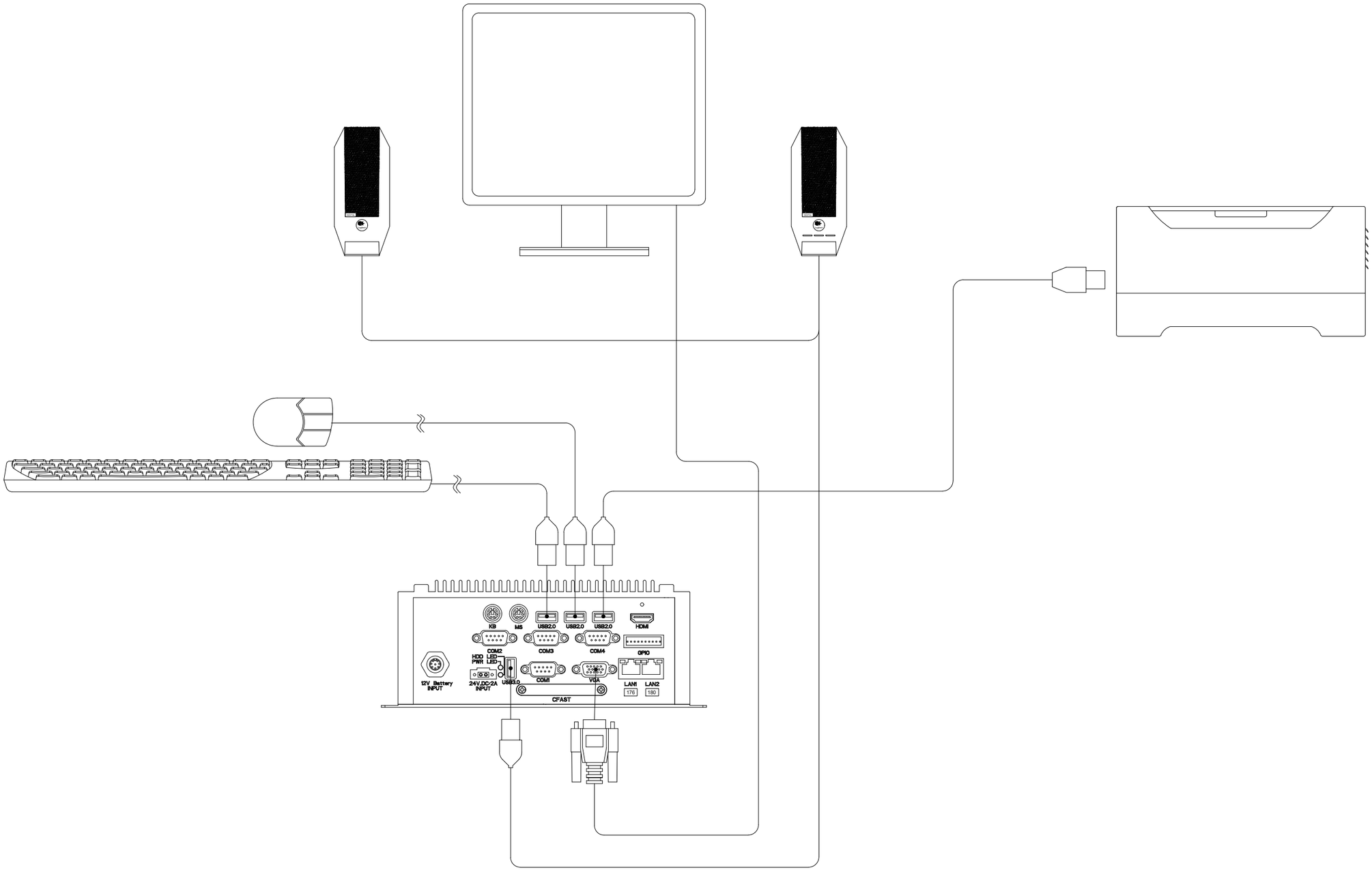
	DRAWN DATE: 19 AUG 24	PAGE NUMBER: 2 OF 7

ALC-ESD-2401-MNT01



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DRAWING INFORMATION:

MAINTENANCE CENTER ASSEMBLY
PERIPHERAL DEVICE CONNECTION DIAGRAM

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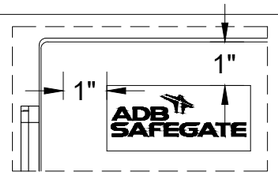
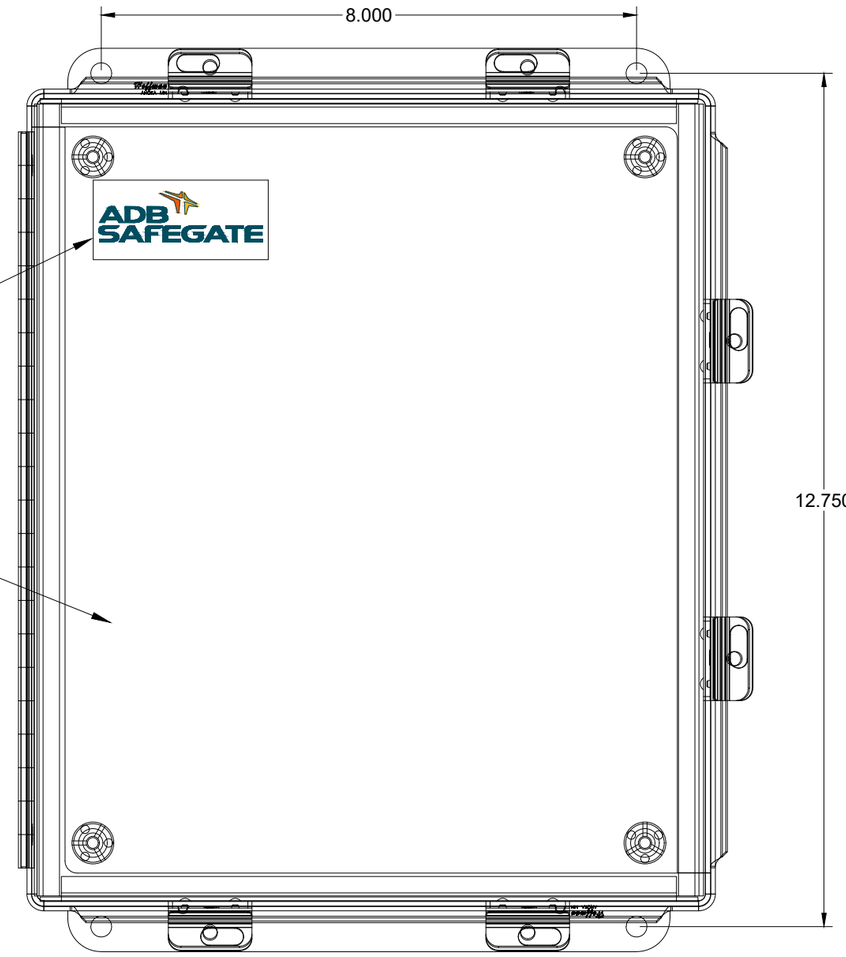
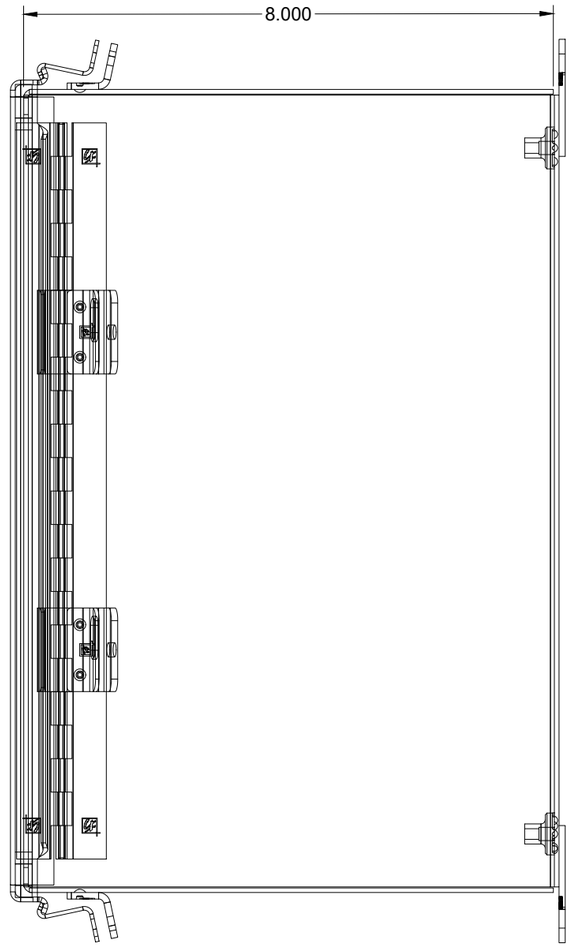
DETAIL:
LABEL PLACEMENT



42A0513	ADB LABEL 1.5 X 3.3" PMS298 7 Cool Gray

MB00132-000-01	ENCLOSURE 12H X 10W X 8D





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DRAWING INFORMATION:
MAINTENANCE CENTER ASSEMBLY
COMMUNICATION ENCLOSURE DETAILS

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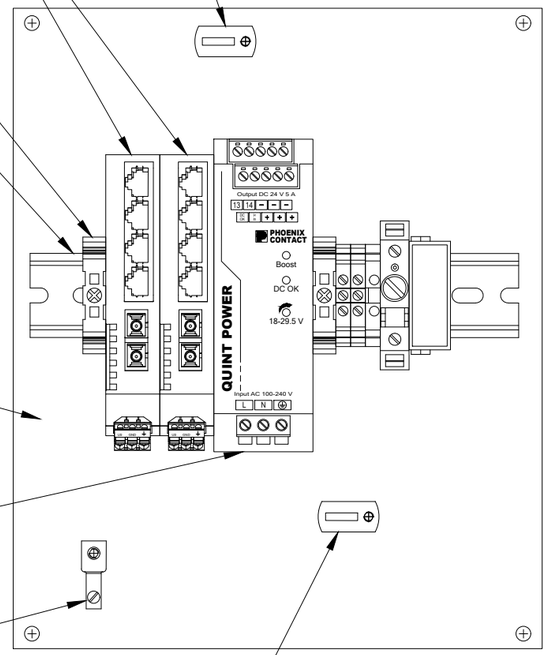
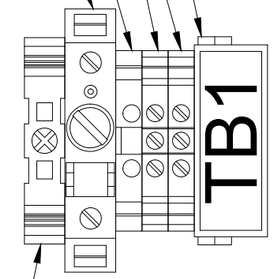
63A0255	WIRE TIE DOWN METAL
C075	E-NET SWITCH, UNMNGD, 4TX/1F, SM, SC
72A0217/1	TERMINAL BLOCK END CLAMP 10MM
RM0251	MTG RAIL 7.5MM U-SHAPE
MM00363-000-01	ALCS, COMPONENT PANEL, 12H X 10W
F038	Power Supply, 5A, 24VDC
72A0010	GROUND LUG
63A0255	WIRE TIE DOWN METAL



72A0217/2	TERM BLK END CLAMP W/LABEL 10MM
72A0219	TERM BLK GND GRN/YEL 24-12AWG 6mm
72A0223/2	TERM BLK 22-10AWG 600V WHITE
47A0159/2	FUSE HOLDER RAIL MOUNT W/NEON
47A0017	FUSE 1A, 250V BUSS MDL-1
72A0217/1	TERMINAL BLOCK END CLAMP 10MM



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DRAWING INFORMATION:

MAINTENANCE CENTER ASSEMBLY
COMMUNICATION ENCLOSURE
PANEL LAYOUT

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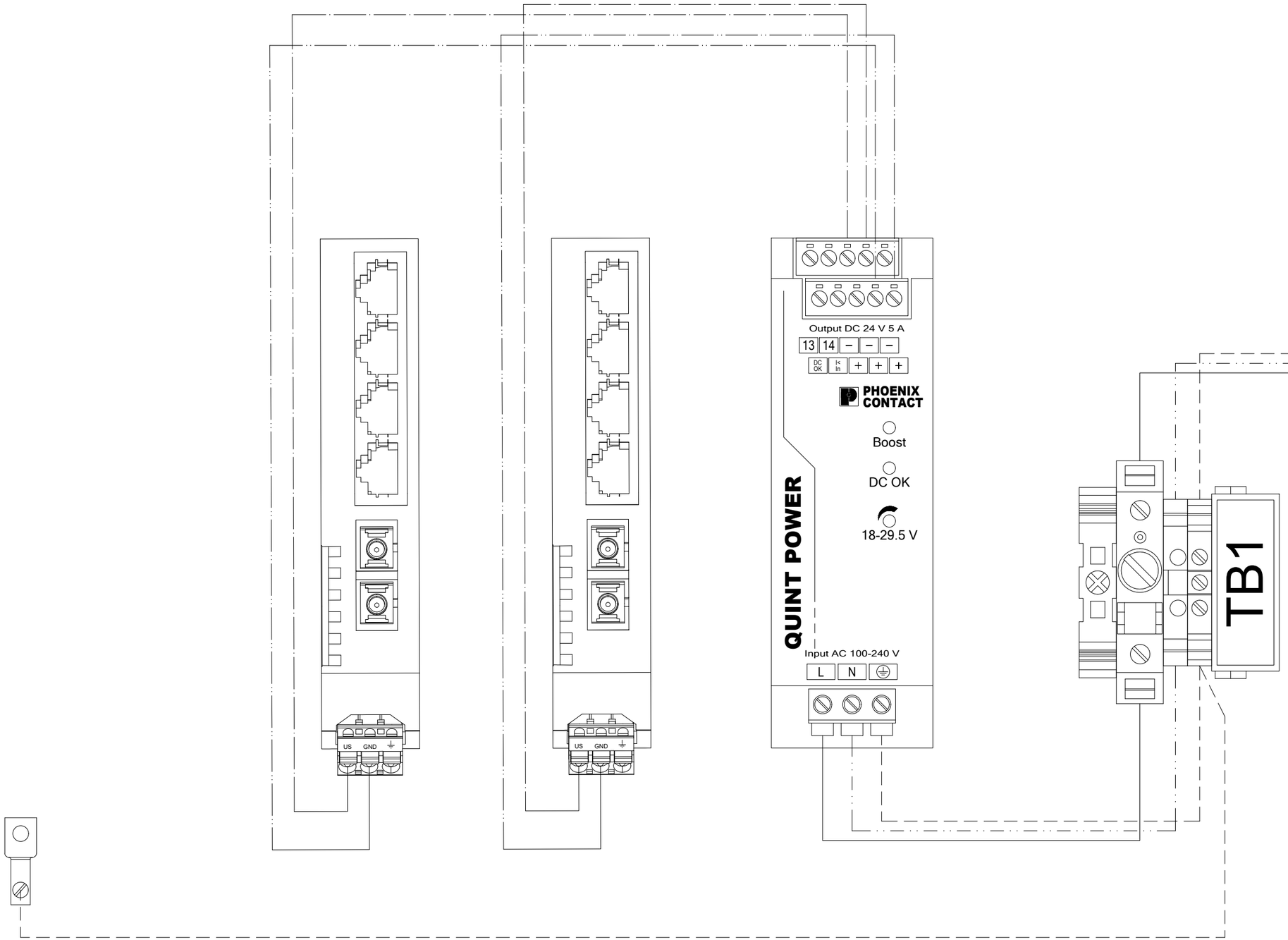
ALC-ESD-2401-MNT01

WIRE TYPE CHART	
LINE	———
NEUTRAL	— · — · —
GROUND	— — — —
+24 VDC	— · — · —
DC COMMON	— · — · —



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DRAWING INFORMATION:

MAINTENANCE CENTER ASSEMBLY
COMMUNICATION ENCLOSURE
POWER WIRING DIAGRAM

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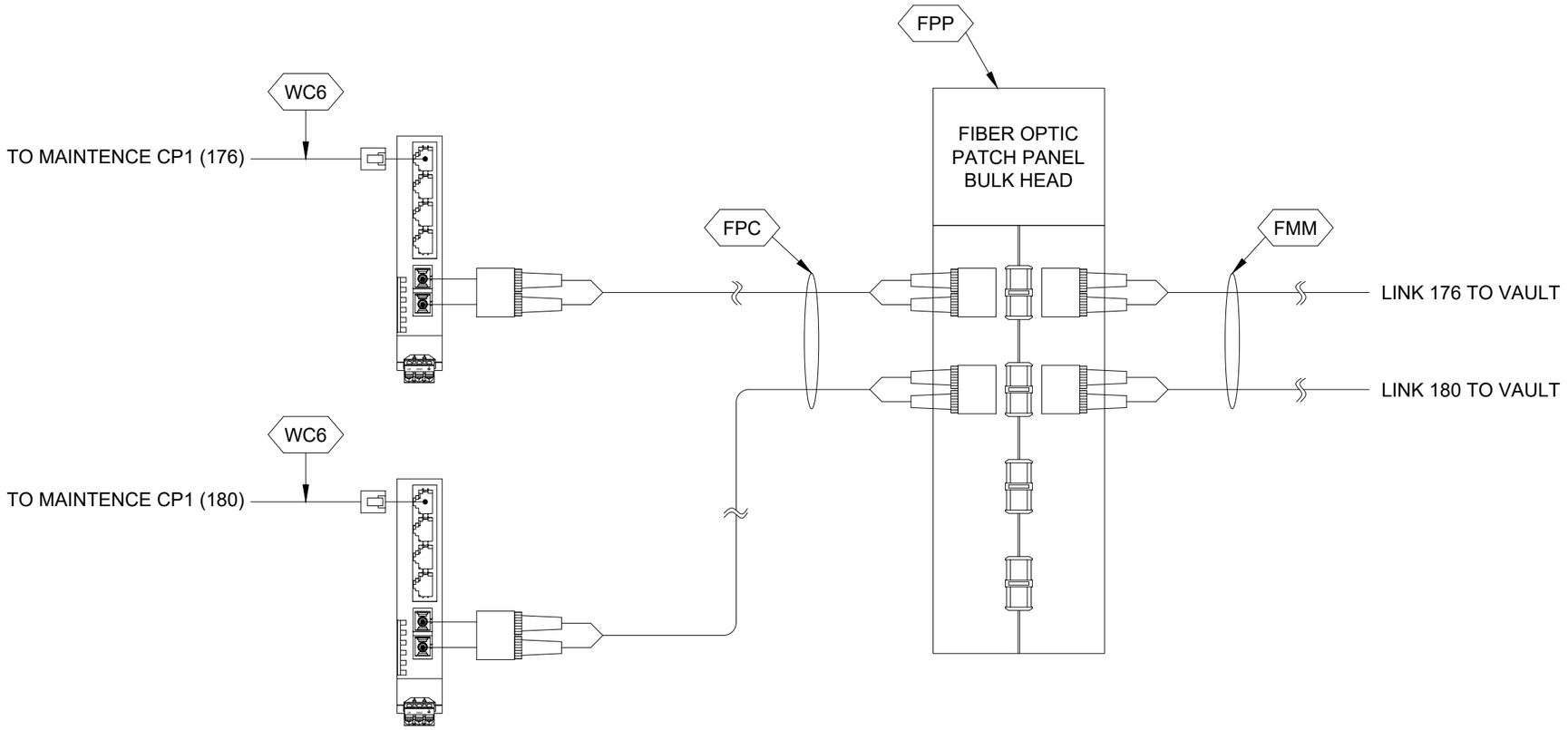
ALC-ESD-2401-MNT01



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DRAWING INFORMATION:

MAINTENANCE CENTER ASSEMBLY
COMMUNICATION ENCLOSURE
COMMUNICATION LINK DIAGRAM
& NETWORK CONNECTIONS

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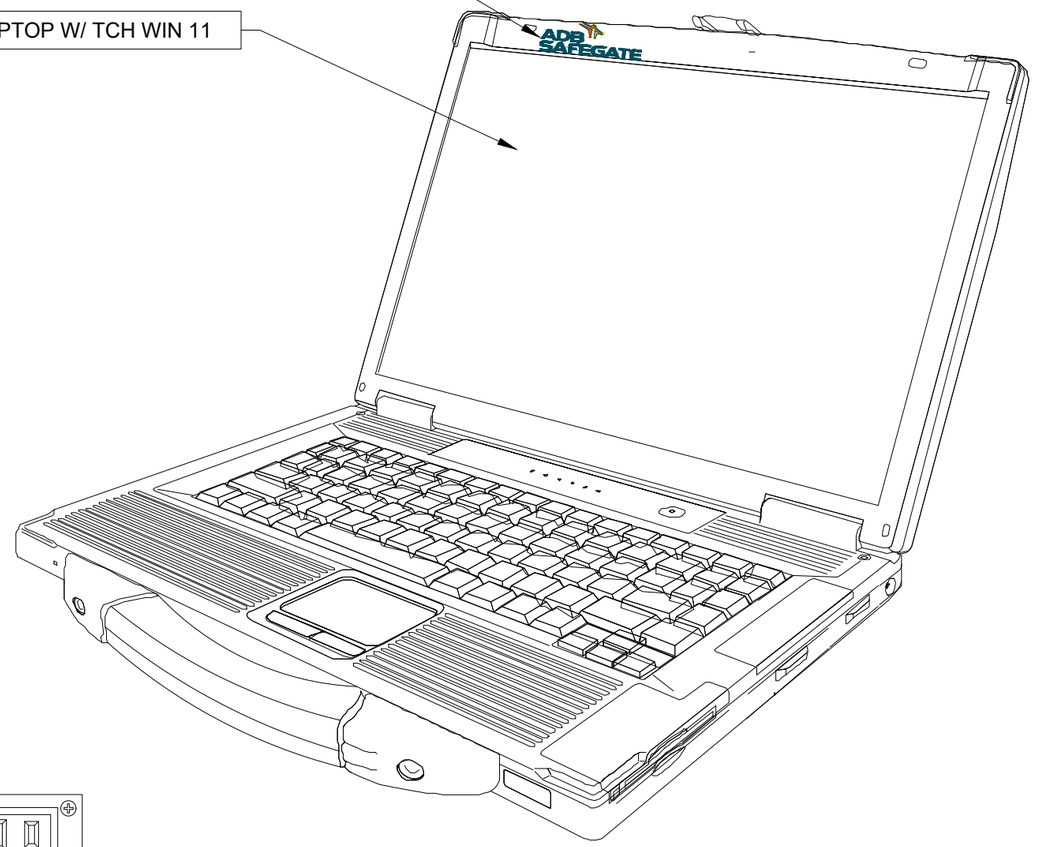
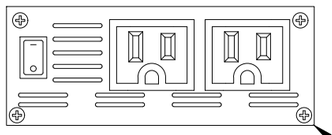
ALC-ESD-2401-MNT01

ITEMS INCLUDED BUT NOT SHOWN:

105A1142	PANASONIC TOUGHBOOK 54 DOCK
105A0941	AC ADAPTER (3 PIN) FOR TOUGHBOOK
105A0846	AC ADAPTER 1' EXTENSION CORD
83A0023	LAPTOP CASE FOR RUGGED LAPTOP

42A0578	ADB LABEL - BLK BACK .5 INCH TALL
44A6002/017	TOUGHBOOK 54 LAPTOP W/ TCH WIN 11





105A0681/400	DC TO AC PWR INVERTER 400 WATT

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DRAWING INFORMATION:
ROAMING LAPTOP ASSEMBLY

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ALC-ESD-2401-RMC01

SPARE PARTS ASSEMBLY

PART NUMBER	DESCRIPTION	QTY.
44A7656/ATW10	ARISTA INDUSTRIAL COMPUTER WINDOWS 10	1
EP00095-001-01	PCB ASSY, ACE3 Control PCB	1
44A7755	TOUCH SCREEN - BEZEL ASSEMBLY	2
44A6397	PCB ASSY, IRMS-LI (LOW IMPEDANCE)	2
44A7772/00	CURRENT/VOLTAGE MODULE 2 (CVM2) 6.6A 4'	2
C075	Ethernet Switch, Unmngd, 4TX-1FX, SM, SC	2
105A1037	HIRSCHMANN UNMGD INDSTRL ETH SW 24 PORT	2

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DRAWING INFORMATION:
SPARE PARTS ASSEMBLY

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ALC-ESD-2401-SPR01

APPENDIX

DRAWINGS THAT FOLLOW THIS SHEET ARE GENERAL ITEMS SUPPLIED BY ADB SAFEGATE THAT MAY INCLUDE:

STANDARD PRODUCT ASSEMBLIES

MISCELLANEOUS INFORMATION

WIRING RECOMENDATIONS

MOUNTING RECOMMENDATIONS

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DRAWING INFORMATION:

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APPENDIX

120 VAC POWER WIRE(S)

WIRE DEFINITION	WIRE COLOR
120VAC	BLACK
NEUTRAL	WHITE
GROUND	GREEN

CONTROL WIRE(S)

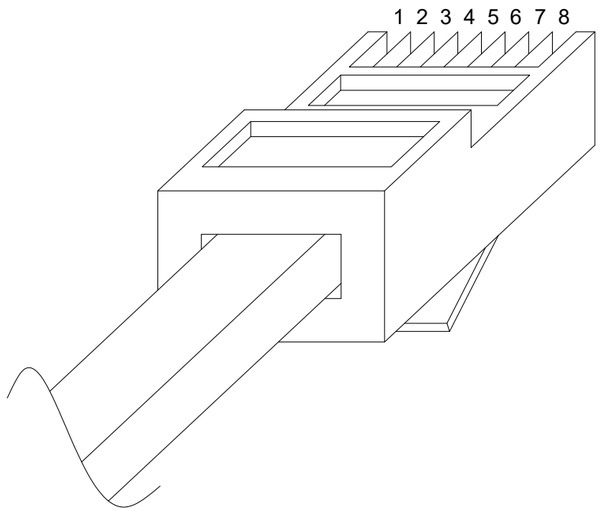
WIRE DEFINITION	WIRE COLOR
CCI	WHITE
CC/B1/B10	BLACK
B2/B30	RED
B3/B100	BLUE
B4	ORANGE
B5	BROWN

MONITORING WIRE(S)

WIRE DEFINITION	WIRE COLOR
NEUTRAL	PURPLE
PRIMARY POWER	GREY
REMOTE/LOCAL	REMOTE/LOCAL

CAT6 WIRING LAYOUT & SIGNAL DESCRIPTIONS

RJ45 PIN #	WIRE COLOR	10/100 BASE	1000 BASE
1	WHITE/ORANGE	TRANSMIT +	BI_DA+
2	ORANGE	TRANSMIT -	BI_DA-
3	WHITE/GREEN	RECEIVE +	BI_DB+
4	BLUE	UNUSED	BI_DC+
5	WHITE/BLUE	UNUSED	BI_DC-
6	GREEN	RECEIVE -	BI_DB-
7	WHITE/BROWN	UNUSED	BI_DD+
8	BROWN	UNUSED	BI_DD-



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DRAWING INFORMATION:
CCR & ETHERNET COLOR CODES

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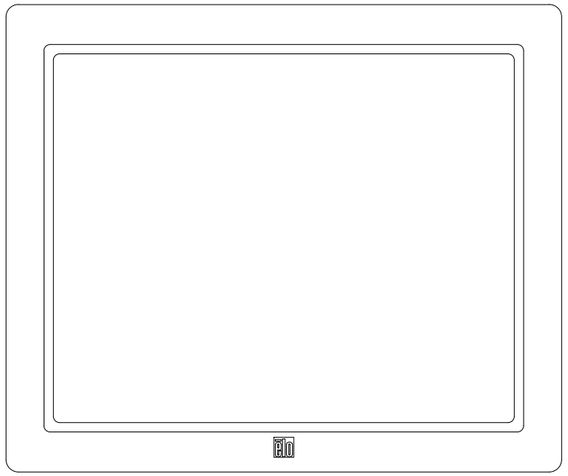
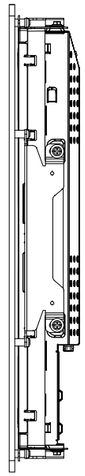
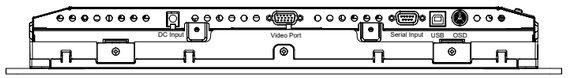
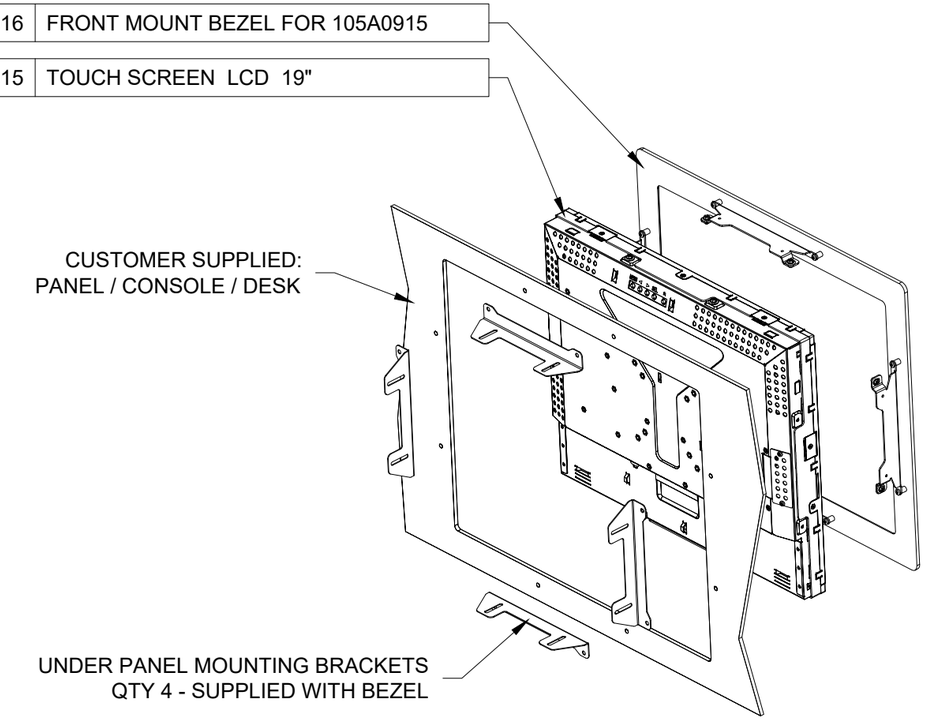
COLOR CODES

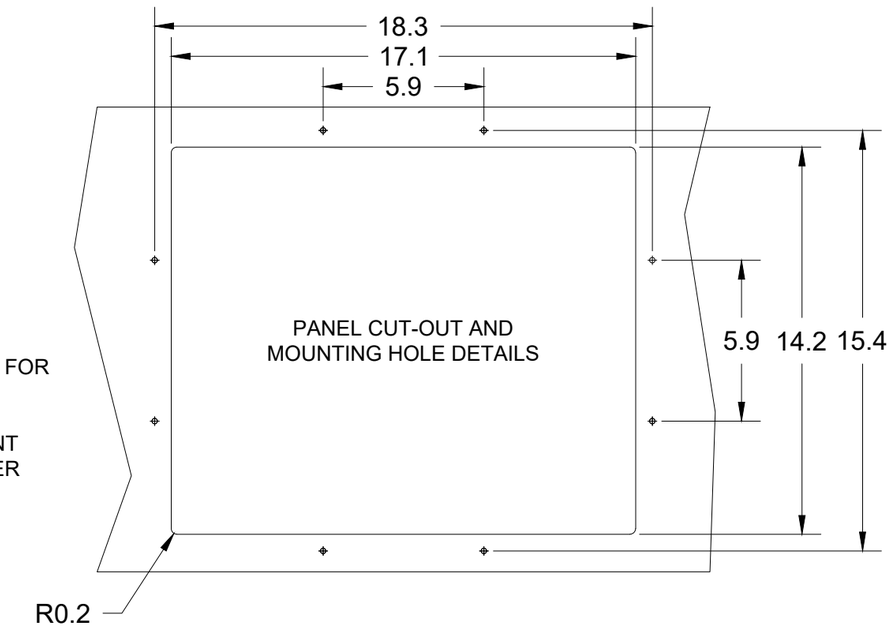






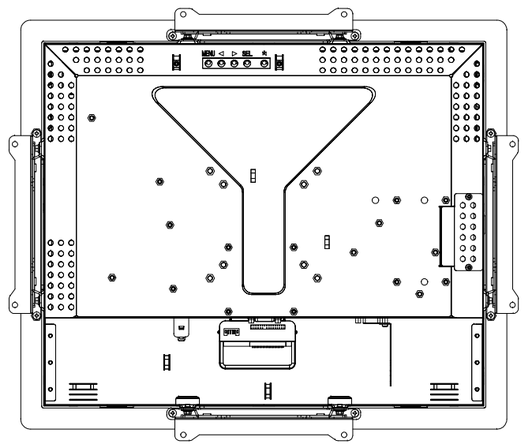
105A0916	FRONT MOUNT BEZEL FOR 105A0915
105A0915	TOUCH SCREEN LCD 19"

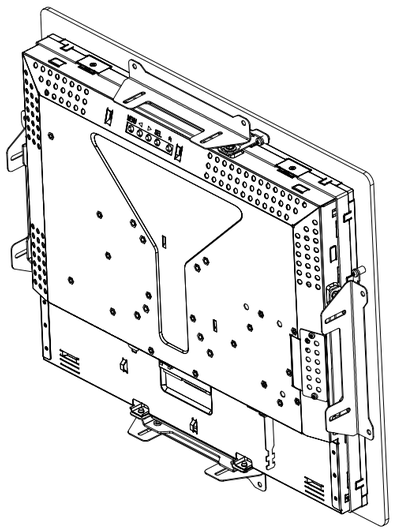




DRILL HOLES WITH #29 DRILL FOR 8-32 HARDWARE (M4)

IF MOUNTING WITH DIFFERENT HARDWARE - ENSURE PROPER SIZE PILOT HOLE IS USED.





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19" TOUCHSCREEN INSTALLATION INSTRUCTIONS

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19" TOUCHSCREEN