

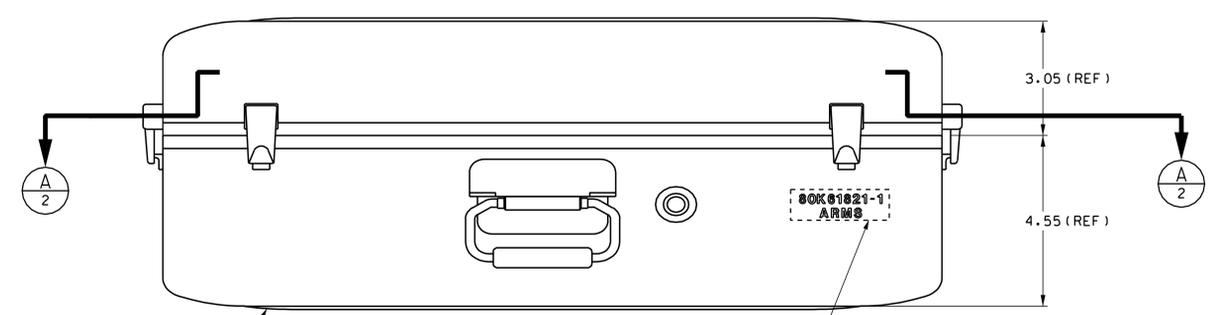
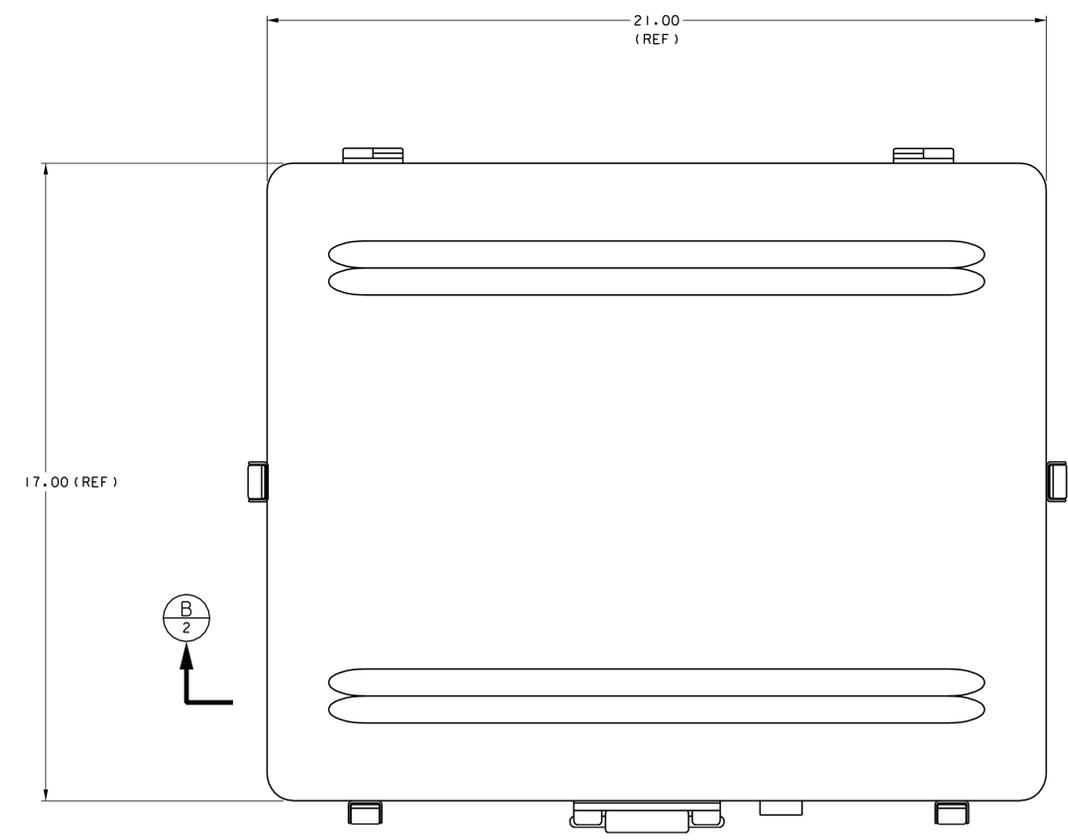
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PART NO.		REVISIONS			
ZONE	SYM	DESCRIPTION	DATE	APPROVAL	
NEW		APPROVED FOR CONSTRUCTION PER CCBD 582377.	06/03/23	J.M. MELTON	

- VENDORS:
- A ZERO CASES
500 WEST 200 NORTH
NORTH SALT LAKE CITY, UT 84054
801-298-5900
 - B ALLEN BRADLEY
ROCKWELL AUTOMATION
777 E. WISCONSIN AVE
MILWAUKEE, WI 53202
 - C HARTING INC
1370 BOWES RD
ELGIN, IL 60123
PHONE: 866-278-0306
 - D DIGI-KEY CORPORATION
701 BROOKS AVE
SOUTH THIEF RIVER FALLS, MN 56701
218-681-6674
 - E PANDUIT CORPORATION
17301 RIGELAND AVE
TINLEY PARK, IL 60477
708-532-1800/888-506-5400

NOTES:

1. FABRICATION OF ELECTRICAL GROUND SUPPORT EQUIPMENT SHALL BE IN ACCORDANCE WITH KSC-E-165 (LATEST REVISION).
2. ALL WIRING (EXCEPT CATEGORY 5 CABLE) SHALL BE 16 AWG TYPE TFFN.
3. ALL FASTENERS SHALL COMPLY WITH THE REQUIREMENTS OF THE AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI). ALL STAINLESS STEEL SHALL BE SERIES 300, EXCEPT SERIES 303 AND SERIES 303SE ARE NOT ALLOWED.
4. ALL ELECTRICAL EQUIPMENT SHALL BE BONDED AND GROUNDED PER KSC-STD-E-0012 AND IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC).
5. PERMANENTLY MARK PART NUMBER AND REF DESIGNATION (80K61821-1 ARMS) PER KSC-STD-E-0015 USING .250 INCH CHARACTERS (MIN) APPROXIMATELY WHERE SHOWN.
6. LAST BALLOUT USED (C)
7. WHEN ORDERING CASE USE CONTROL NUMBER 61-126834 REFERENCED TO PART NUMBER 106P4AW-9, CONTROL CASE IN WHITE FINISH, AND SPECIFY HINGED INNER LID IS REQUIRED.
8. OPTIONAL CABLE LENGTH MAY BE USED. ALTERNATE PART NUMBERS: 09 45 725 1327 (5 METER)
9. USE ITEMS 7, AND 12 AS REQUIRED FOR WIRE RETENTION. ATTACH TO PANEL, CLEAN SURFACE OF PANEL WITH ISOPROPYL ALCOHOL PRIOR TO BONDING. WAIT A MINIMUM OF 2 HOURS BEFORE LOADING THE TIE MOUNT.
10. CABLE ASSEMBLY COILED AND STOWED IN HINGED INNER LID.
11. USE RING LUG AND ATTACH GROUND WIRE TO PANEL MOUNT SCREW.



PORTABLE HMI ASSEMBLY-1
SCALE = 1/2

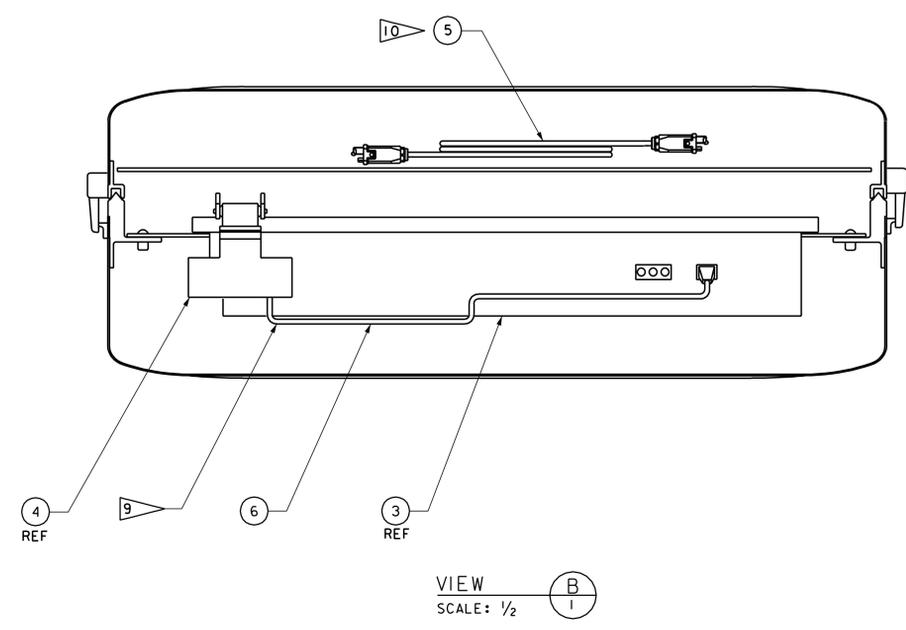
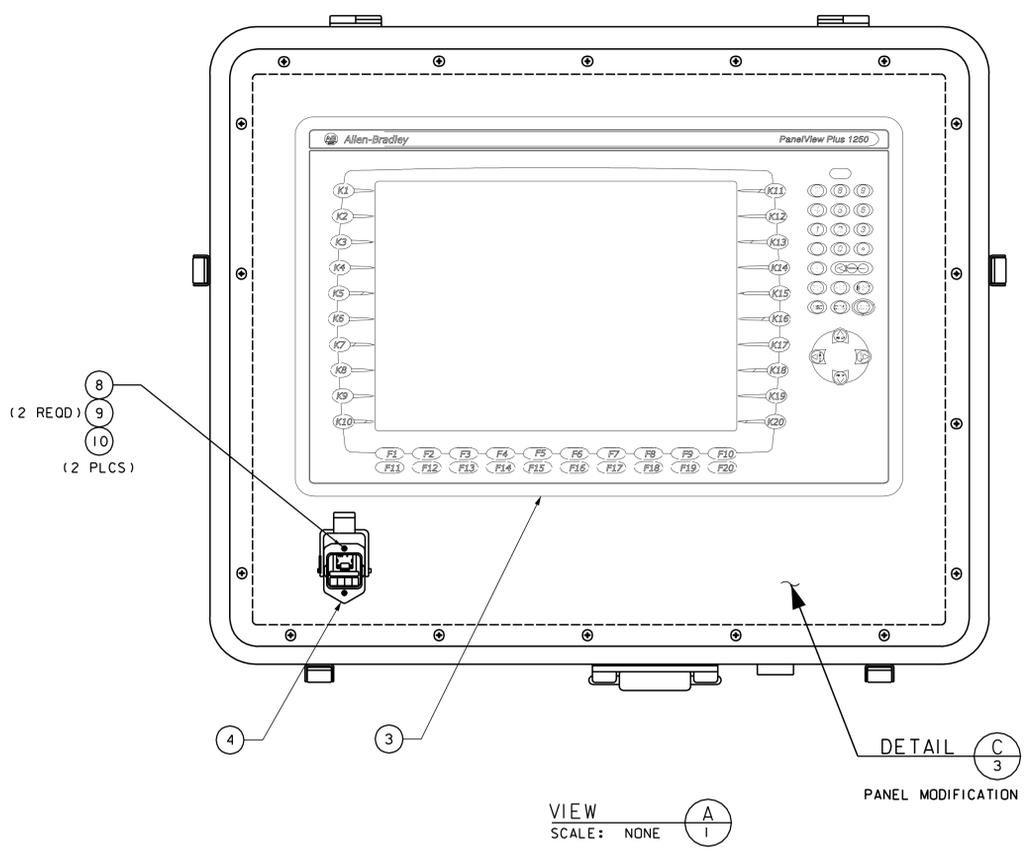
QTY	UNIT	DESCRIPTION	STOCK SIZE	MATERIAL SPEC
1	A/R	PLT.7M-C	CABLE TIE	3.1 X 0.9
1	I	MS25036-152	RING LUG	STUD #4 WIRE #16
2	I		SELF LOCKING NUT	#4-40UNC CRES
4	I		FLAT WASHER	#4 CRES
2	I		MACHINE SCREW CROSS RECESSED	#4-40UNC X .625 CRES
	A/R	ABM100-A-C	ADHESIVE BACKED CABLE TIE MOUNT	1.00 X 1.00 RUBBER ADHESIVE
1	I	AE1096-ND	CATEGORY 5 PATCH CABLE	.5 METERS
1	I	09 45 725 1353	HYBRID CABLE ASSEMBLY	20 METERS
1	I	09 45 225 1300	HYBRID RECEPTACLE	
1	I	2711P-K12C4D2	PANELVIEW PLUS 1250	
1	I	106P4AW-9	WATERTIGHT CASE	17 X 21 X 7.5 HIGH
-	I	80K61821-1	PORTABLE HMI ASSEMBLY	

ASSY DASH NO. AND NO. REQD	ZONE	FIND/ITEM NO.	MFR CODE	PART OR STOCK NO.	DESCRIPTION	STOCK SIZE	MATERIAL SPEC
LIST OF MATERIAL							
UNLESS OTHERWISE SPECIFIED				ORIGINAL DATE OF DRAWING 2006/03/15			
DIMENSIONS ARE IN INCHES				DRAWN BY S. ROBERTS			
TOLERANCES ON FRACTIONS				CHECKED BY S. ROBERTS			
.XX = ± .03				DESIGNED BY E. MELBERG			
.XXX = ± .010				ENGINEERED BY J. MELBERG			
± 1/16				APPROVED BY J.M. MELTON			
MATERIAL				SUBMITTED BY J.M. MELTON			
HEAT TREATMENT				APPROVED BY J.M. MELTON			
NEXT ASSY USED ON				APPROVED BY J.M. MELTON			
APPLICATION				APPROVED BY J.M. MELTON			
FINAL PROTECTIVE FINISH				APPROVED BY J.M. MELTON			
				WEIGHT CHECKER DATE CODE			
				SCALE NOTED UNIT WEIGHT			
				SHEET 1 OF 3			

THIS COMPUTER DRAWING WAS CREATED IN MICROSTATION AND FILED UNDER THE DRAWING NUMBER

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PART NO.	MF	REVISIONS				
		ZONE	SYM	DESCRIPTION	DATE	APPROVAL

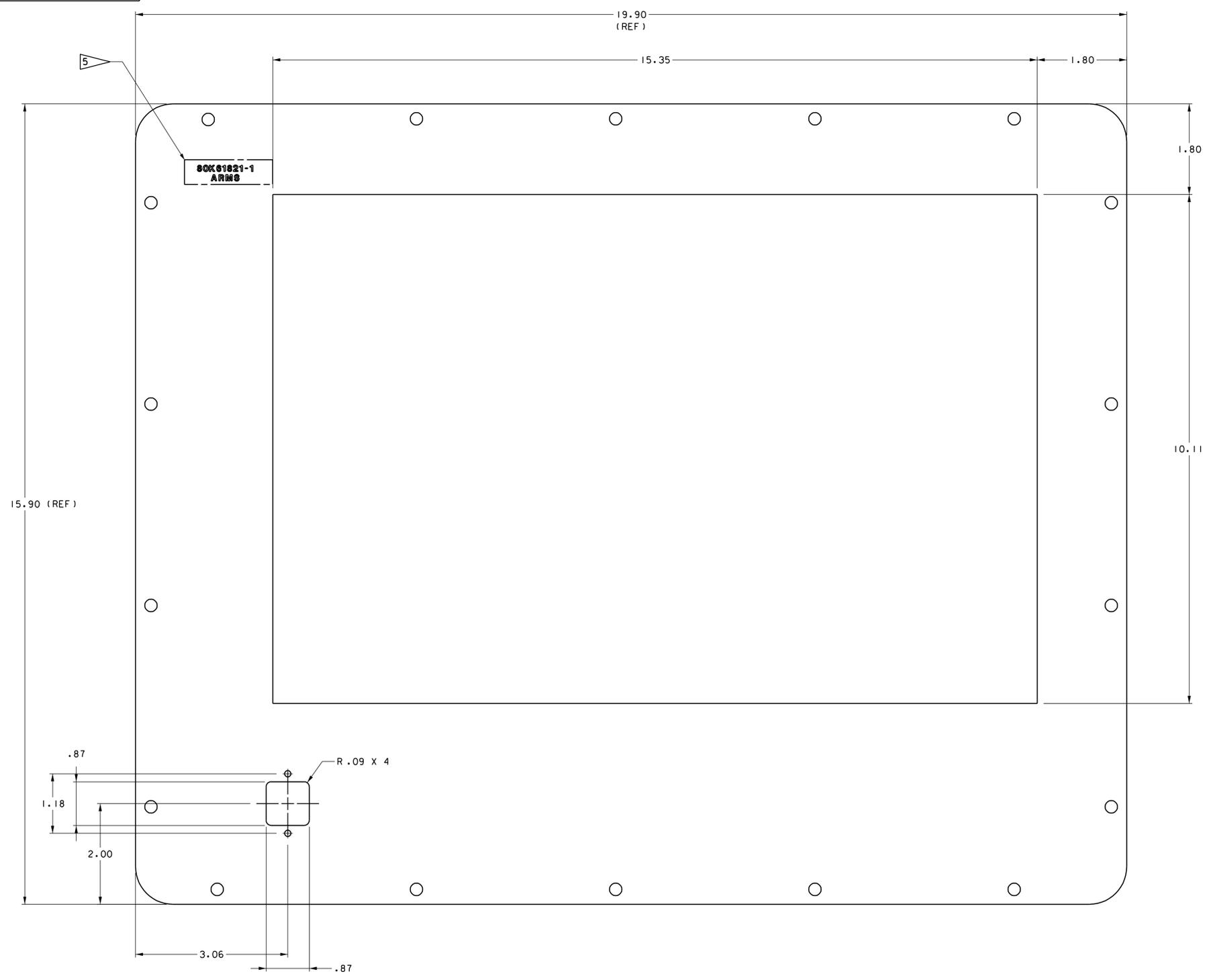


THIS COMPUTER DRAWING WAS CREATED IN MICROSTATION AND FILED UNDER THE DRAWING NUMBER

UNLESS OTHERWISE SPECIFIED				ORIGINAL DATE OF DRAWING 2006/03/15		PAD A SERVICE ARMS		JOHN F. KENNEDY SPACE CENTER, NASA	
DIMENSIONS ARE IN INCHES		TOLERANCES ON FRACTIONS		TOLERANCES ON DECIMALS		TOLERANCES ON ANGLES		DRAWN BY S. ROBERTS	
± 1/16		.XX = ± .03 .XXX = ± .010		± 0.5°				CHECKED BY S. ROBERTS	
MATERIAL				SUBMITTED BY L. BOYD		APPROVED BY J. M. MELTON		DATE	
HEAT TREATMENT				FINAL PROTECTIVE FINISH		WEIGHT CHECKER		DATE	
NEXT ASSY				USED ON		SCALE NOTED		UNIT WEIGHT	
APPLICATION						CODE 22264		DWG SIZE F	
						NOTED		SHEET 2 OF	
								90K 10265	

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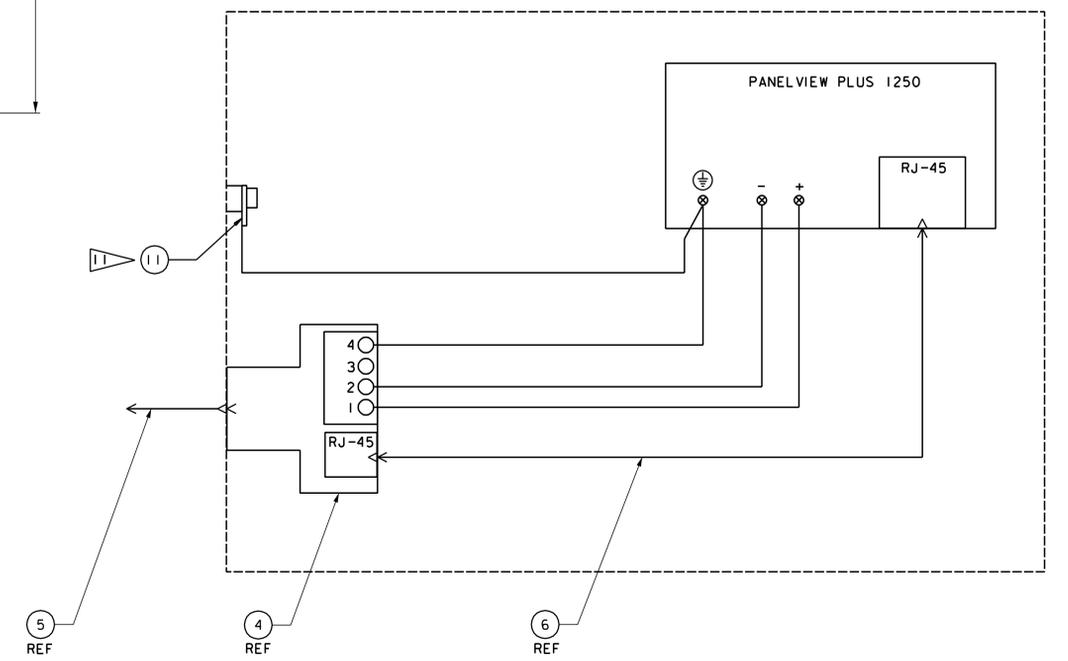
PART NO.		REVISIONS			
ZONE	SYM	DESCRIPTION	DATE	APPROVAL	



80K1021-1
ARMS

R .09 X 4

DETAIL
SCALE: FULL
PANEL MODIFICATION



WIRING DIAGRAM 2 9

SEE ENGINEERING RECORDS 80K55438	UNLESS OTHERWISE SPECIFIED			ORIGINAL DATE OF DRAWING 2006/03/15	PAD A SERVICE ARMS PORTABLE HMI ASSEMBLY	JOHN F. KENNEDY SPACE CENTER, NASA KENNEDY SPACE CENTER FLORIDA		
	DIMENSIONS ARE IN INCHES			DRAWN BY S. ROBERTS			CHECKED BY S. ROBERTS	
	TOLERANCES ON FRACTIONS ± 1/16			DECIMALS .XX = ± .03 .XXX = ± .010			ANGLES ± 0.5°	DESIGNED BY E. MELLBERG
	MATERIAL			ENGINEERED BY L. W. HERRILL			ENGINEER	DATE 22264
NEXT ASSY	USED ON	HEAT TREATMENT	FINAL PROTECTIVE FINISH	APPROVED BY J. M. MELTON 55160	WEIGHT CHECKER NOTED	DATE		
APPLICATION					SCALE	UNIT WEIGHT		

THIS COMPUTER DRAWING WAS CREATED IN MICROSTATION AND FILED UNDER THE DRAWING NUMBER

DWG SIZE F
90K10265

SHEET 3 OF 3