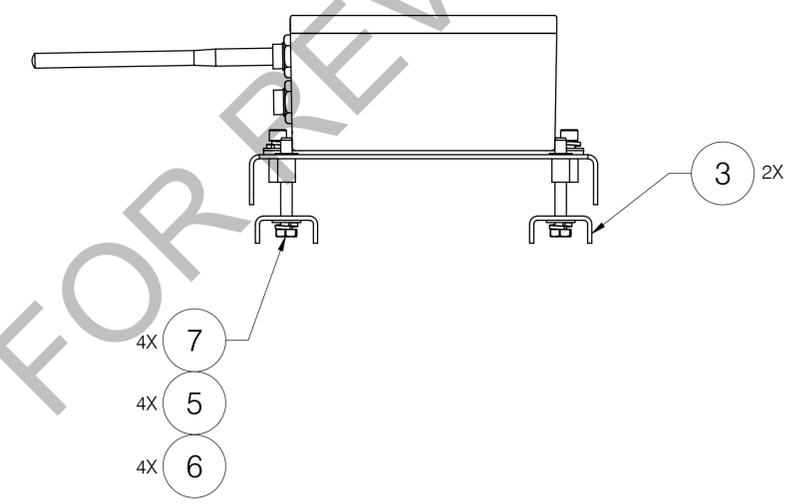
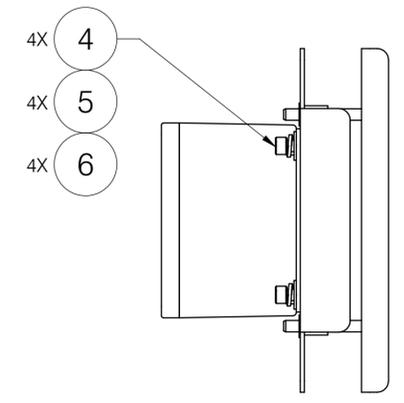
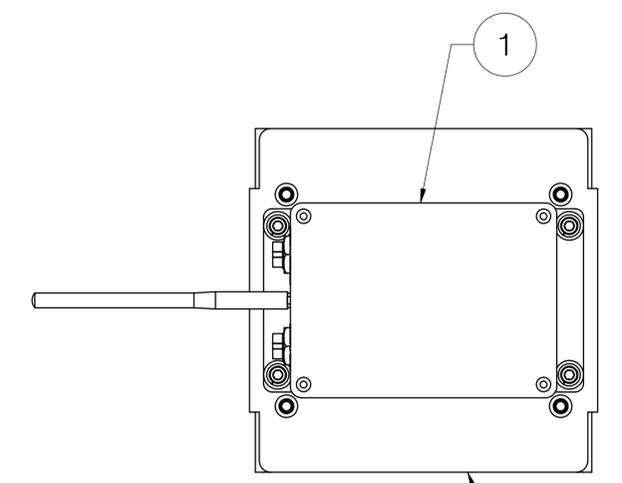
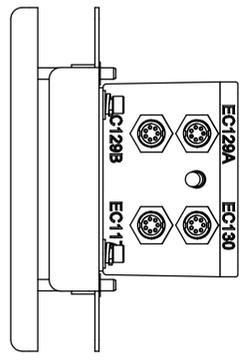


REVISIONS			
LTR	DESCRIPTION	DATE (YR-MO-DA)	APPROVED
-V08	BASE LINE RELEASE WITH 199-0108, 12-09-19	13-02-13	SM/MC

- NOTES:
- THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH ASME Y14.100 WITH THE ADDITION OF APPENDICES B THROUGH E.
  - THE FOLLOWING ARE MANDATORY WHEN INDICATED BY ■
    - REMOVE BURRS     BREAK SHARP EDGES .010 MAX
    - FILLETS R .010 MAX.
    - $125^\circ$  ALL OVER, EXCEPT AS NOTED
- DIMENSIONS APPLY:
- BEFORE PLATING OR PAINTING
  - AFTER PLATING
  - AFTER PAINTING
- TOLERANCES ON STOCK MATERIAL SIZES, SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS.
- ASME Y14.5M-1994 APPLIES
  - FED-STD-H28 APPLIES



FOR REVIEW ONLY

QTY REQD	DRAWING OR PART NO.	NOMENCLATURE OR MATERIAL	SPECIFICATION	ITEM NO.
4	92198A550	SCREW, CAP, HEX HEAD, 18-8 SS, .250-20UNC X 2.00 LG, SEE NOTE 3		7
8	92146A029	WASHER, LOCK, .250, 18-8 SS, SEE NOTE 3		6
8	96659A106	WASHER, FLAT, .281 I.D. X .625 O.D., SEE NOTE 3		5
4	92196A540	SCREW, CAP, SOCKET HEAD, 18-8 SS, .250-20UNC X .75 LG, SEE NOTE 3		4
1	199-0111	HMDSS RFID MOUNTING BRACKET CLAMP		3
1	199-0176	RFID MOUNTING BRACKET ASSEMBLY		2
1	199-0179	CAUSE AND EFFECT SYSTEM TRANSMITTER BOX ASSEMBLY, 315 MHz		1
PARTS LIST				

DISTRIBUTION STATEMENT D. DISTRIBUTION AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND U.S. DOD CONTRACTORS ONLY; CRITICAL TECHNOLOGY; DETERMINATION MADE 00-00-00. OTHER REQUESTS SHALL BE REFERRED TO: TECHNICAL DIRECTOR, EDGEWOOD CHEMICAL BIOLOGICAL CENTER, ATTN: RDCB-DEA-D, ABERDEEN PROVING GROUND, MD 21010-5424.

DESTRUCTION NOTICE - DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.

WARNING - THIS DOCUMENT CONTAINS TECHNICAL DATA WHOSE EXPORT IS RESTRICTED BY THE ARMS EXPORT CONTROL ACT (TITLE 22, U.S.C., SEC 2751, et seq.) OR THE EXPORT ADMINISTRATION ACT OF 1979 (TITLE 50, U.S.C., APP. 2401 et seq.), AS AMENDED. VIOLATIONS OF THESE EXPORT LAWS ARE SUBJECT TO SEVERE CRIMINAL PENALTIES. DISSEMINATE IN ACCORDANCE WITH PROVISIONS OF DOD DIRECTIVE 5230.25.

THIS DOCUMENT CONTAINS INFORMATION EXEMPT FROM MANDATORY DISCLOSURE UNDER THE FOIA. FOR OFFICIAL USE ONLY

NEXT ASSY	UNLESS OTHERWISE SPECIFIED	ORIGINAL DATE (YR-MO-DA)	12-03-07	
199-6530	DIMENSIONS ARE IN INCHES TOLERANCES ON: 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005 FRACTIONS ± 1/32 ANGLES ± 0° 30'	DRAWN BY	HSW	
199-6531		CHECKER		
	MATERIAL	DESIGN APPROVAL		
EQUIPMENT CODE NO.		DRAWING APPROVAL		
		CONTRACT NO.		
		U.S. ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND EDGEWOOD CHEMICAL BIOLOGICAL CENTER ABERDEEN PROVING GROUND, MARYLAND, 21010-5424		
		<b>CAUSE AND EFFECT SYSTEM ASSEMBLY, 315 MHz</b>		
		SIZE	CAGE CODE	DWG NO.
		D	81361	199-0108
		SCALE 1/2		SHEET

4

3

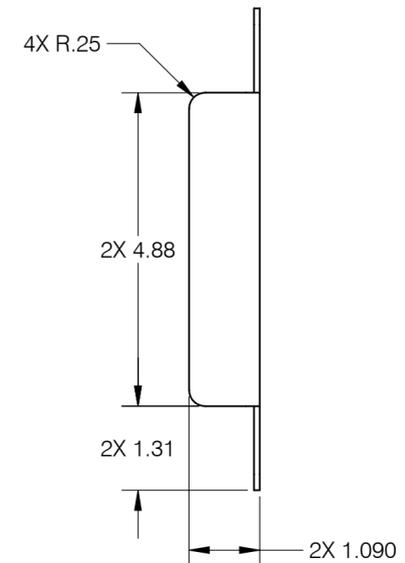
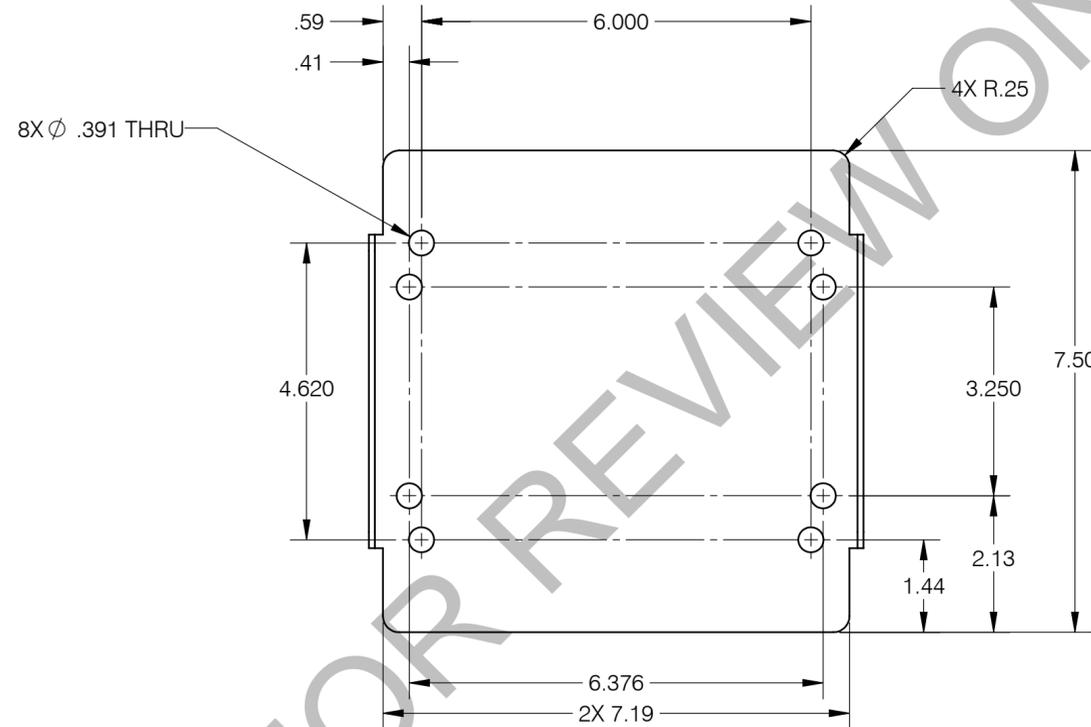
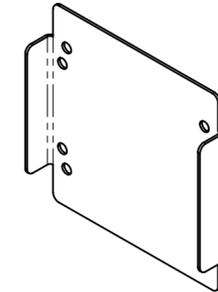
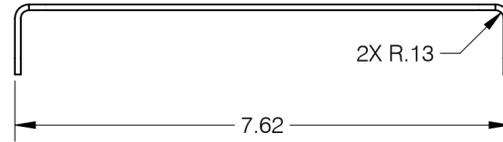
2

1

NOTES:

- 1. THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH ASME Y14.100 WITH THE ADDITION OF APPENDICES B THROUGH E.
  - 2. THE FOLLOWING ARE MANDATORY WHEN INDICATED BY ■
    - REMOVE BURRS    ■ BREAK SHARP EDGES .010 MAX
    - FILLETS R .010 MAX
    - 125 ALL OVER, EXCEPT AS NOTED
  - DIMENSIONS APPLY:
    - BEFORE PLATING OR PAINTING
    - AFTER PLATING
    - AFTER PAINTING
  - TOLERANCES ON STOCK MATERIAL SIZES, SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS.
  - ASME Y14.5M-1994 APPLIES
  - FED-STD-H28 APPLIES
3. FINISH 7.1.1 PLUS 20.4 OF MIL-STD-171, COLOR TAN 33446 PER FED-STD-595.

REVISIONS			
LTR	DESCRIPTION	DATE (YR-MO-DA)	APPROVED
-v07	BASELINE RELEASE	13-02-14	SM/MC



FOR REVIEW ONLY

DISTRIBUTION STATEMENT D. DISTRIBUTION AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND U.S. DOD CONTRACTORS ONLY; CRITICAL TECHNOLOGY; DETERMINATION MADE 00-00-00. OTHER REQUESTS SHALL BE REFERRED TO: TECHNICAL DIRECTOR, EDGEWOOD CHEMICAL BIOLOGICAL CENTER, ATTN: RDCB-DEA-D, ABERDEEN PROVING GROUND, MD 21010-5424.

DESTRUCTION NOTICE - DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.

WARNING - THIS DOCUMENT CONTAINS TECHNICAL DATA WHOSE EXPORT IS RESTRICTED BY THE ARMS EXPORT CONTROL ACT (TITLE 22, U.S.C., SEC 2751, et seq.) OR THE EXPORT ADMINISTRATION ACT OF 1979 (TITLE 50, U.S.C., APP. 2401 et seq.), AS AMENDED. VIOLATIONS OF THESE EXPORT LAWS ARE SUBJECT TO SEVERE CRIMINAL PENALTIES. DISSEMINATE IN ACCORDANCE WITH PROVISIONS OF DOD DIRECTIVE 5230.25.

THIS DOCUMENT CONTAINS INFORMATION EXEMPT FROM MANDATORY DISCLOSURE UNDER THE FOIA. FOR OFFICIAL USE ONLY

QTY REQD	DRAWING OR PART NO.	NOMENCLATURE OR MATERIAL	SPECIFICATION	ITEM NO.
PARTS LIST				
NEXT ASSY 199-0176	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005 FRACTIONS ± 1/32 ANGLES ± 0° 30'	ORIGINAL DATE (YR-MO-DA) 12-01-23 DRAWN BY HSW CHECKER SUBMITTED	U.S. ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND EDGEWOOD CHEMICAL BIOLOGICAL CENTER ABERDEEN PROVING GROUND, MARYLAND, 21010-5424	
EQUIPMENT CODE NO.	MATERIAL ALUMINUM ALLOY SHEET, 6061-T6, .090 THK PER ASTM B209	DESIGN APPROVAL DRAWING APPROVAL CONTRACT NO.	RFID MOUNTING BRACKET	
			SIZE C	CAGE CODE 81361
			DWG NO. 199-0110	
			SCALE 1/2	SHEET

4

3

2

1

4

3

2

1

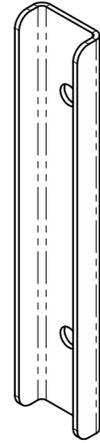
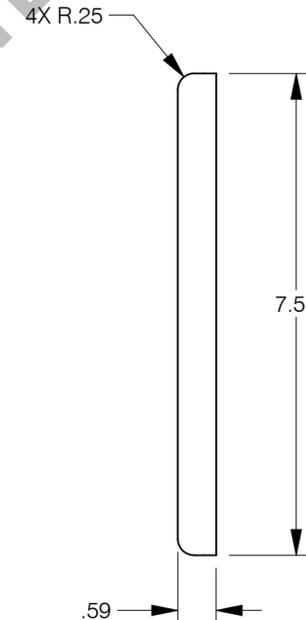
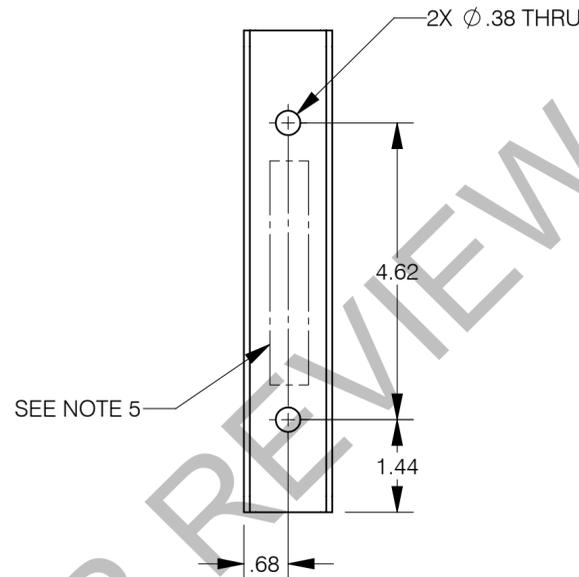
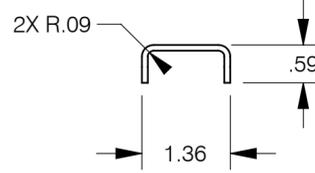
NOTES:

- 1. THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH ASME Y14.100 WITH THE ADDITION OF APPENDICES B THROUGH E.
- 2. THE FOLLOWING ARE MANDATORY WHEN INDICATED BY ■
  - REMOVE BURRS    ■ BREAK SHARP EDGES .010 MAX
  - FILLETS R .010 MAX
  - 125 ALL OVER, EXCEPT AS NOTED
- DIMENSIONS APPLY:
  - BEFORE PLATING OR PAINTING
  - AFTER PLATING
  - AFTER PAINTING
- TOLERANCES ON STOCK MATERIAL SIZES, SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS.
- ASME Y14.5M-1994 APPLIES
- FED-STD-H28 APPLIES

3. MATERIAL: ALUMINUM ALLOY SHEET, 6061, .090 THICK IAW ASTM B209

4. FINISH 7.1.1 PLUS 20.4 OF MIL-STD-171, COLOR TAN 33446 PER FED-STD-595.

5. PART MARKING: RUBBER STAMP, SILKSCREEN OR STEEL STAMP. PERMANENTLY MARK CAGE CODE AND PART NO (EXMAPLE 81361-199-0111). CHARACTERS TO BE 0.121 HIGH AND BLACK IN COLOR PER MIL-STD-130. LOCATE APPROXIMATELY AS SHOWN.



REVISIONS			
LTR	DESCRIPTION	DATE (YR-MO-DA)	APPROVED
-v04	BASELINE RELEASE	13-12-15	SM/MC

DISTRIBUTION STATEMENT D. DISTRIBUTION AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND U.S. DOD CONTRACTORS ONLY; CRITICAL TECHNOLOGY; DETERMINATION MADE 00-00-00. OTHER REQUESTS SHALL BE REFERRED TO: TECHNICAL DIRECTOR, EDGEWOOD CHEMICAL BIOLOGICAL CENTER, ATTN: RDCB-DEA-D, ABERDEEN PROVING GROUND, MD 21010-5424.

DESTRUCTION NOTICE - DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.

WARNING - THIS DOCUMENT CONTAINS TECHNICAL DATA WHOSE EXPORT IS RESTRICTED BY THE ARMS EXPORT CONTROL ACT (TITLE 22, U.S.C., SEC 2751, et seq.) OR THE EXPORT ADMINISTRATION ACT OF 1979 (TITLE 50, U.S.C., APP. 2401 et seq.), AS AMENDED. VIOLATIONS OF THESE EXPORT LAWS ARE SUBJECT TO SEVERE CRIMINAL PENALTIES. DISSEMINATE IN ACCORDANCE WITH PROVISIONS OF DOD DIRECTIVE 5230.25.

THIS DOCUMENT CONTAINS INFORMATION EXEMPT FROM MANDATORY DISCLOSURE UNDER THE FOIA.  
FOR OFFICIAL USE ONLY

QTY REQD	DRAWING OR PART NO.	NOMENCLATURE OR MATERIAL	SPECIFICATION	ITEM NO.
PARTS LIST				
NEXT ASSY 199-0108	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005 FRACTIONS ± 1/32 ANGLES ± 0° 30'	ORIGINAL DATE (YR-MO-DA) 13-01-22 DRAWN BY JJC CHECKER SUBMITTED	U.S. ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND EDGEWOOD CHEMICAL BIOLOGICAL CENTER ABERDEEN PROVING GROUND, MARYLAND, 21010-5424	
EQUIPMENT CODE NO.	MATERIAL SEE NOTE 3	DESIGN APPROVAL DRAWING APPROVAL CONTRACT NO.	HMDSS RFID MOUNTING BRACKET CLAMP	
			SIZE C	CAGE CODE 81361
			DWG NO. 199-0111	
			SCALE 1/2	SHEET

4

3

2

1

4

3

2

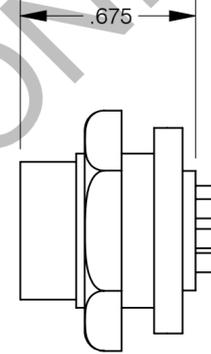
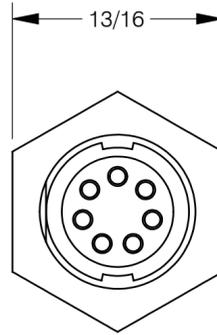
1

NOTES:

- 1. THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH ASME Y14.100 WITH THE ADDITION OF APPENDICES B THROUGH E.
- 2. THE FOLLOWING ARE MANDATORY WHEN INDICATED BY ■
  - REMOVE BURRS     BREAK SHARP EDGES .010 MAX
  - FILLETS R .010 MAX
  - <sup>125</sup> ALL OVER, EXCEPT AS NOTED
- DIMENSIONS APPLY:
  - BEFORE PLATING OR PAINTING
  - AFTER PLATING
  - AFTER PAINTING
- TOLERANCES ON STOCK MATERIAL SIZES, SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS.
- ASME Y14.5M-1994 APPLIES
- FED-STD-H28 APPLIES
- 3. IDENTIFICATION OF THE SUGGESTED SOURCE(S) OF SUPPLY HEREON IS NOT TO BE CONSTRUED AS A GUARANTEE OF PRESENT OR CONTINUED AVAILABILITY AS A SOURCE OF SUPPLY FOR THE ITEM.
- 4. MATERIAL  
 BODY: BLACK NYLON  
 GASKET: BLACK NEOPRENE RUBBER  
 HEX NUT: BLACK NYLON  
 CONTACTS: BRASS, GOLD OVER NICKEL
- 5. CONTACTS (7 REQD):  
 #20 CONTACTS FOR 20 THRU  
 24 AWG WIRE  
 CRIMP CONTACTS SUPPLIED WITH CONNECTOR
- 6. ELECTRICAL RATING  
 AMPS: 7.5  
 VOLTS: 600
- 7. OPERATING TEMPERATURE:  
 -40°C TO 75°C
- 8. PANEL THICKNESS: .125 THRU .188

SUGGESTED SOURCES OF SUPPLY			
CONTROL NUMBER	SUPPLIER DATA		
	CAGE CODE	PART NUMBER	NAME AND ADDRESS
199-0126	023K3	7280-7PG-300	CONXALL CORP 601E WILDWOOD AVE VILLA PARK, IL 60181-2762

REVISIONS			
LTR	DESCRIPTION	DATE (YR-MO-DA)	APPROVED
-v01	BASELINE RELEASE	13-02-25	SM/MC



FOR REVIEW ONLY

DISTRIBUTION STATEMENT D. DISTRIBUTION AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND U.S. DOD CONTRACTORS ONLY; CRITICAL TECHNOLOGY; DETERMINATION MADE 00-00-00. OTHER REQUESTS SHALL BE REFERRED TO: TECHNICAL DIRECTOR, EDGEWOOD CHEMICAL BIOLOGICAL CENTER, ATTN: RDCB-DEA-D, ABERDEEN PROVING GROUND, MD 21010-5424.

DESTRUCTION NOTICE - DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.

WARNING - THIS DOCUMENT CONTAINS TECHNICAL DATA WHOSE EXPORT IS RESTRICTED BY THE ARMS EXPORT CONTROL ACT (TITLE 22, U.S.C., SEC 2751, et seq.) OR THE EXPORT ADMINISTRATION ACT OF 1979 (TITLE 50, U.S.C., APP. 2401 et seq.), AS AMENDED. VIOLATIONS OF THESE EXPORT LAWS ARE SUBJECT TO SEVERE CRIMINAL PENALTIES. DISSEMINATE IN ACCORDANCE WITH PROVISIONS OF DOD DIRECTIVE 5230.25.

THIS DOCUMENT CONTAINS INFORMATION EXEMPT FROM MANDATORY DISCLOSURE UNDER THE FOIA.  
FOR OFFICIAL USE ONLY

### VENDOR ITEM CONTROL DRAWING

QTY REQD	DRAWING OR PART NO.	NOMENCLATURE OR MATERIAL	SPECIFICATION	ITEM NO.
		PARTS LIST		
	NEXT ASSY 199-0179	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005 FRACTIONS ± 1/32 ANGLES ± 0° 30'	ORIGINAL DATE (YR-MO-DA) 13-02-25 DRAWN BY JJC    CHECKER SUBMITTED DESIGN APPROVAL DRAWING APPROVAL CONTRACT NO.	
	EQUIPMENT CODE NO.	MATERIAL	U.S. ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND EDGEWOOD CHEMICAL BIOLOGICAL CENTER ABERDEEN PROVING GROUND, MARYLAND, 21010-5424  <h2 style="text-align: center;">CONNECTOR, CES BOX</h2>	
			SIZE C	CAGE CODE 81361
			DWG NO. 199-0126	
			SCALE 2/1	SHEET

4

3

2

1

NOTES:

1. THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH ASME Y14.100 WITH THE ADDITION OF APPENDICES B THROUGH E.

2. THE FOLLOWING ARE MANDATORY WHEN INDICATED BY ■

□ REMOVE BURRS □ BREAK SHARP EDGES .010 MAX

□ FILLETS R .010 MAX

□ 125 ✓ ALL OVER, EXCEPT AS NOTED

DIMENSIONS APPLY:

□ BEFORE PLATING OR PAINTING

□ AFTER PLATING

□ AFTER PAINTING

□ TOLERANCES ON STOCK MATERIAL SIZES, SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS.

■ ASME Y14.5M-1994 APPLIES

□ FED-STD-H28 APPLIES

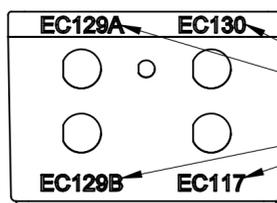
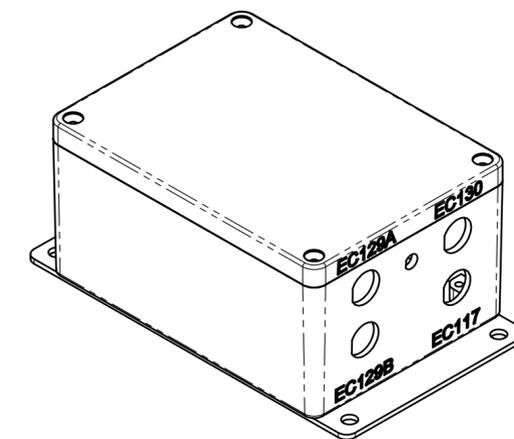
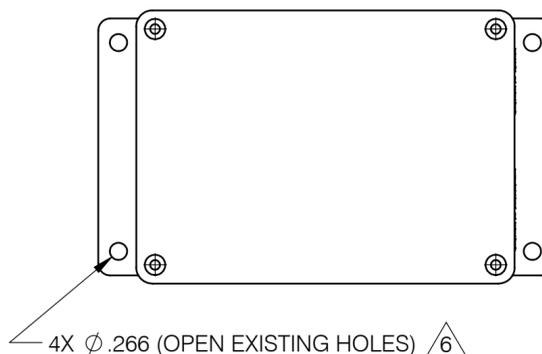
3. MAKE FROM PART NO. 199-0178.

4. DELETED

5. STENCILING: RUBBER STAMP OR SILKSCREEN. PERMANENTLY MARK TEXT AS SHOWN. CHARACTERS TO BE 0.25 HIGH AND BLACK IN COLOR PER MIL-STD-130.

△ ALTERED FEATURE(S).

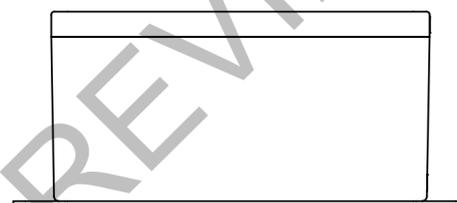
REVISIONS			
LTR	DESCRIPTION	DATE (YR-MO-DA)	APPROVED
-v10	BASELINE RELEASE WITH 199-0128, 12-09-14	13-02-13	SM/MC



VIEW A-A

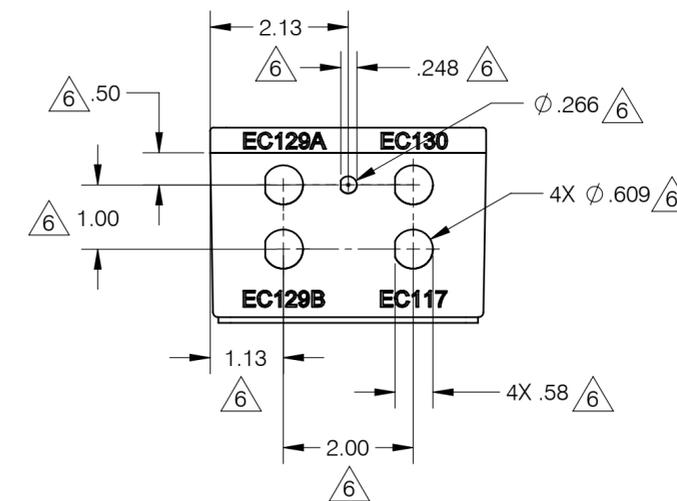
SEE NOTE 5 CENTER TEXT VERTICALLY WITH ADJACENT HOLE.

△ 6



A

A



FOR REVIEW ONLY

ALTERED ITEM DRAWING

DISTRIBUTION STATEMENT D. DISTRIBUTION AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND U.S. DOD CONTRACTORS ONLY; CRITICAL TECHNOLOGY; DETERMINATION MADE 00-00-00. OTHER REQUESTS SHALL BE REFERRED TO: TECHNICAL DIRECTOR, EDGEWOOD CHEMICAL BIOLOGICAL CENTER, ATTN: RDCB-DEA-D, ABERDEEN PROVING GROUND, MD 21010-5424.

DESTRUCTION NOTICE - DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.

WARNING - THIS DOCUMENT CONTAINS TECHNICAL DATA WHOSE EXPORT IS RESTRICTED BY THE ARMS EXPORT CONTROL ACT (TITLE 22, U.S.C., SEC 2751, et seq.) OR THE EXPORT ADMINISTRATION ACT OF 1979 (TITLE 50, U.S.C., APP. 2401 et seq.), AS AMENDED. VIOLATIONS OF THESE EXPORT LAWS ARE SUBJECT TO SEVERE CRIMINAL PENALTIES. DISSEMINATE IN ACCORDANCE WITH PROVISIONS OF DOD DIRECTIVE 5230.25.

THIS DOCUMENT CONTAINS INFORMATION EXEMPT FROM MANDATORY DISCLOSURE UNDER THE FOIA. FOR OFFICIAL USE ONLY

QTY REQD	DRAWING OR PART NO.	NOMENCLATURE OR MATERIAL	SPECIFICATION	ITEM NO.
PARTS LIST				
NEXT ASSY	UNLESS OTHERWISE SPECIFIED	ORIGINAL DATE (YR-MO-DA)	U.S. ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND EDGEWOOD CHEMICAL BIOLOGICAL CENTER ABERDEEN PROVING GROUND, MARYLAND, 21010-5424	
199-0179	DIMENSIONS ARE IN INCHES TOLERANCES ON: 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005 FRACTIONS ± 1/32 ANGLES ± 0° 30'	12-03-02	<b>TRANSMITTER BOX, MODIFIED</b>	
	MATERIAL	DRAWN BY HSW		
		CHECKER		
		DESIGN APPROVAL		
EQUIPMENT CODE NO.		DRAWING APPROVAL	SIZE C	CAGE CODE 81361
		CONTRACT NO.	DWG NO. 199-0128	
			SCALE 1/2	SHEET

NOTES:

1. THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH ASME Y14.100 WITH THE ADDITION OF APPENDICES B THROUGH E.

2. THE FOLLOWING ARE MANDATORY WHEN INDICATED BY ■

■ REMOVE BURRS      ■ BREAK SHARP EDGES .010 MAX

□ FILLETS .010 MAX R.

□ <sup>125</sup> ✓ ALL OVER, EXCEPT AS NOTED

DIMENSIONS APPLY:

■ BEFORE PLATING OR PAINTING

□ AFTER PLATING

□ AFTER PAINTING

■ TOLERANCES ON STOCK MATERIAL SIZES, SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS.

■ ASME Y14.5M-1994 APPLIES

□ FED-STD-H28 APPLIES

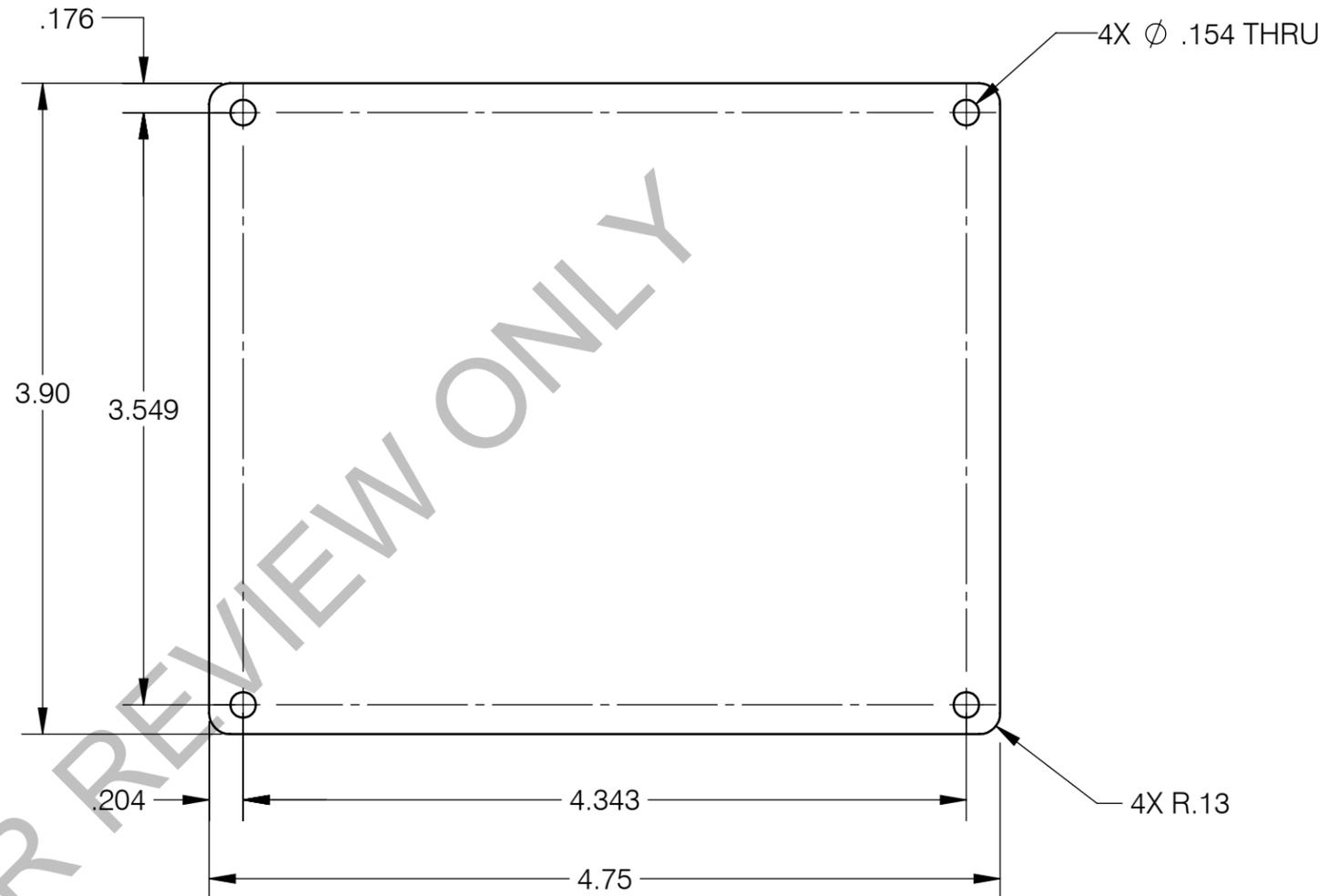
DISTRIBUTION STATEMENT D. DISTRIBUTION AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND U.S. DOD CONTRACTORS ONLY; CRITICAL TECHNOLOGY; DETERMINATION MADE 00-00-00. OTHER REQUESTS SHALL BE REFERRED TO: TECHNICAL DIRECTOR, EDGEWOOD CHEMICAL BIOLOGICAL CENTER, ATTN: RDCB-DEA-D, ABERDEEN PROVING GROUND, MD 21010-5424.

DESTRUCTION NOTICE - DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.

WARNING - THIS DOCUMENT CONTAINS TECHNICAL DATA WHOSE EXPORT IS RESTRICTED BY THE ARMS EXPORT CONTROL ACT (TITLE 22, U.S.C., SEC 2751, et seq.) OR THE EXPORT ADMINISTRATION ACT OF 1979 (TITLE 50, U.S.C., APP. 2401 et seq.), AS AMENDED. VIOLATIONS OF THESE EXPORT LAWS ARE SUBJECT TO SEVERE CRIMINAL PENALTIES. DISSEMINATE IN ACCORDANCE WITH PROVISIONS OF DOD DIRECTIVE 5230.25.

THIS DOCUMENT CONTAINS INFORMATION EXEMPT FROM MANDATORY DISCLOSURE UNDER THE FOIA. FOR OFFICIAL USE ONLY

REVISIONS			
LTR	DESCRIPTION	DATE (YR-MO-DA)	APPROVED
-v03	BASELINE RELEASE	13-02-13	SM/MC



QTY REQD	DRAWING OR PART NO.	NOMENCLATURE OR MATERIAL	SPECIFICATION	ITEM NO.
PARTS LIST				
NEXT ASSY	199-0191	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005 FRACTIONS ± 1/32 ANGLES ± 0° 30'	ORIGINAL DATE (YR-MO-DA) 12-03-02	U.S. ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND EDGEWOOD CHEMICAL BIOLOGICAL CENTER ABERDEEN PROVING GROUND, MARYLAND, 21010-5424
EQUIPMENT CODE NO.		MATERIAL	DRAWN BY HSW	<b>TRANSMITTER PCB, 433 MHz</b>
			CHECKER	
			SUBMITTED	
			DESIGN APPROVAL	
			DRAWING APPROVAL	SIZE B
			CONTRACT NO.	CAGE CODE 81361
				DWG NO. 199-0129
				SCALE 1/1
				SHEET

4

3

2

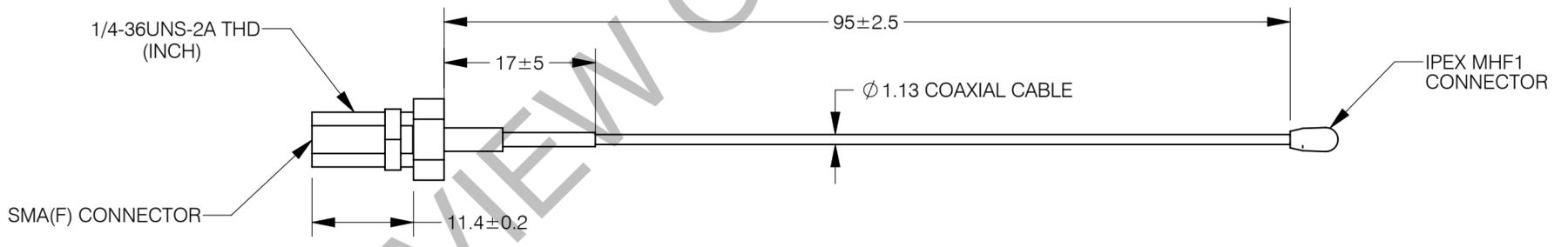
1

NOTES:

- 1. THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH ASME Y14.100 WITH THE ADDITION OF APPENDICES B THROUGH E.
- 2. THE FOLLOWING ARE MANDATORY WHEN INDICATED BY 
  - REMOVE BURRS     BREAK SHARP EDGES .010 MAX
  - FILLETS R .010 MAX
  - <sup>125</sup> ALL OVER, EXCEPT AS NOTED
- DIMENSIONS APPLY:
  - BEFORE PLATING OR PAINTING
  - AFTER PLATING
  - AFTER PAINTING
- TOLERANCES ON STOCK MATERIAL SIZES, SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS.
- ASME Y14.5M-1994 APPLIES
- FED-STD-H28 APPLIES
- 3. METRIC, 1 INCH = 25.4 MM APPLIES.
- 4. IDENTIFICATION OF THE SUGGESTED SOURCE(S) OF SUPPLY HEREON IS NOT TO BE CONSTRUED AS A GUARANTEE OF PRESENT OR CONTINUED AVAILABILITY AS A SOURCE OF SUPPLY FOR THE ITEM.
- 5. SUPPLIED WITH LOCKWASHER AND 1/4-36UNS-2B NUT

SUGGESTED SOURCES OF SUPPLY			
CONTROL NUMBER	SUPPLIER DATA		
	CAGE CODE	PART NUMBER	NAME AND ADDRESS
199-0130	2S894	931-1098-ND	DIGI-KEY CORPORATION 701 BROOKS AVE S THIEF RIVER FALLS, MN 56701-2757
199-0130		CAB.011	TAOGLAS LTD UNIT 3 ENNISCARTHY TECHNOLOGY CENTERE ENNISCARTHY, CO WEXFORD IRELAND

REVISIONS			
LTR	DESCRIPTION	DATE (YR-MO-DA)	APPROVED



DISTRIBUTION STATEMENT D. DISTRIBUTION AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND U.S. DOD CONTRACTORS ONLY; CRITICAL TECHNOLOGY; DETERMINATION MADE 00-00-00. OTHER REQUESTS SHALL BE REFERRED TO: TECHNICAL DIRECTOR, EDGEWOOD CHEMICAL BIOLOGICAL CENTER, ATTN: RDCB-DEA-D, ABERDEEN PROVING GROUND, MD 21010-5424.

DESTRUCTION NOTICE - DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.

WARNING - THIS DOCUMENT CONTAINS TECHNICAL DATA WHOSE EXPORT IS RESTRICTED BY THE ARMS EXPORT CONTROL ACT (TITLE 22, U.S.C., SEC 2751, et seq.) OR THE EXPORT ADMINISTRATION ACT OF 1979, AS AMENDED, TITLE 50, U.S.C., APP. 2401 et seq. VIOLATIONS OF THESE EXPORT LAWS ARE SUBJECT TO SEVERE CRIMINAL PENALTIES. DISSEMINATE IN ACCORDANCE WITH PROVISIONS OF DOD DIRECTIVE 5230.25.

THIS DOCUMENT CONTAINS INFORMATION EXEMPT FROM MANDATORY DISCLOSURE UNDER THE FOIA. EXEMPTION (3) APPLIES.

FOR OFFICIAL USE ONLY



METRIC

VENDOR ITEM CONTROL DRAWING

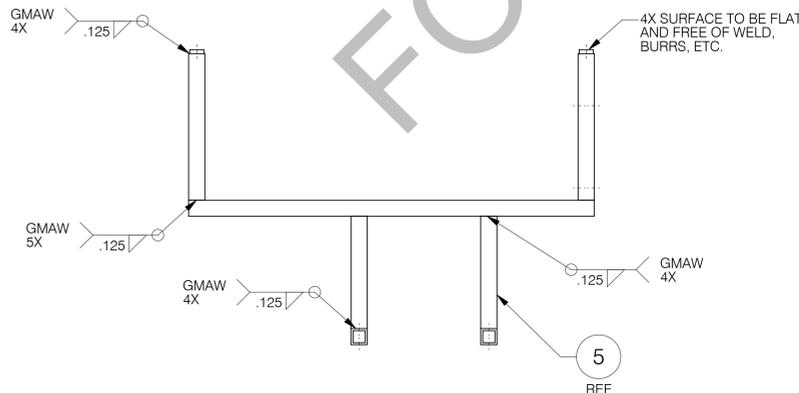
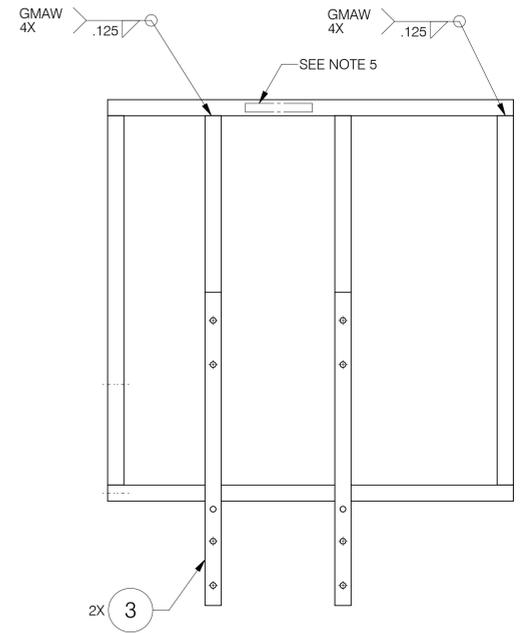
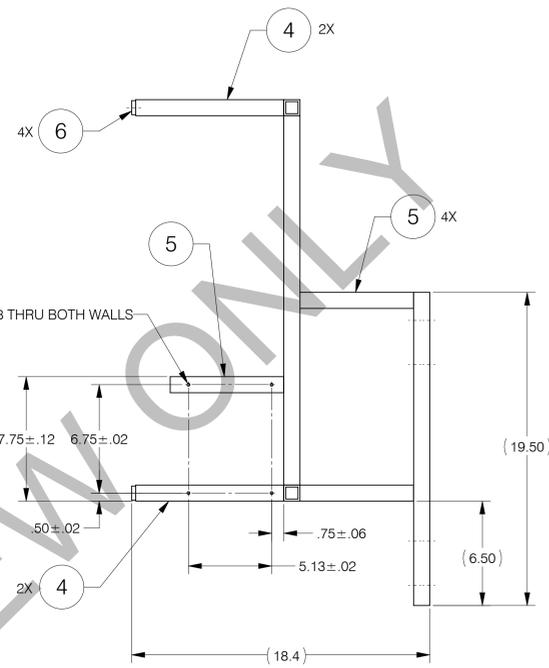
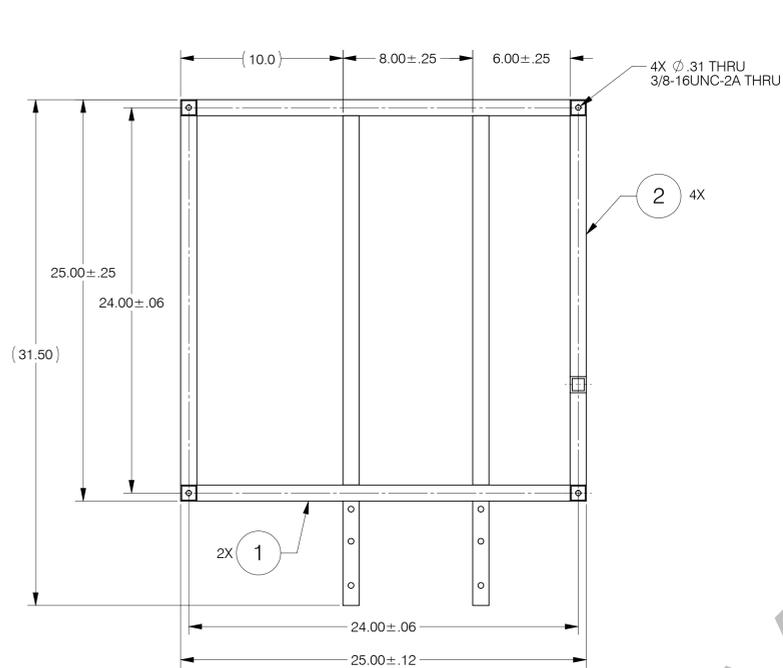
QTY REQD	DRAWING OR PART NO.	NOMENCLATURE OR MATERIAL	SPECIFICATION	ITEM NO.
PARTS LIST				
NEXT ASSY	UNLESS OTHERWISE SPECIFIED	ORIGINAL DATE (YR-MO-DA)	U.S. ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND EDGEWOOD CHEMICAL BIOLOGICAL CENTER ABERDEEN PROVING GROUND, MARYLAND, 21010-5424	
199-0838	DIMENSIONS ARE IN MM TOLERANCES ON: WHOLE NUMBERS ± 1 PLACE DECIMALS ± 2 PLACE DECIMALS ± ANGLES ± 0° 30'	12-10-16	<b>ANTENNA CABLE ASSEMBLY</b>	
199-0179		DRAWN BY: JJC    CHECKER:		
	MATERIAL	SUBMITTED	SIZE: C    CAGE CODE: 81361    DWG NO.: 199-0130	
		DESIGN APPROVAL		
	EQUIPMENT CODE NO.	DRAWING APPROVAL	SCALE: 2/1    SHEET	
		CONTRACT NO.		



- NOTES:
- THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH ASME Y14.100 WITH THE ADDITION OF APPENDICES B THROUGH E.
  - THE FOLLOWING ARE MANDATORY WHEN INDICATED BY ■
    - REMOVE BURRS
    - BREAK SHARP EDGES .010 MAX
    - FILLETS R .010 MAX
    - 125 / ALL OVER, EXCEPT AS NOTED
  - DIMENSIONS APPLY:
    - BEFORE PLATING OR PAINTING
    - AFTER PLATING
    - AFTER PAINTING
  - TOLERANCES ON STOCK MATERIAL SIZES, SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS.
    - ASME Y14.3M-1994 APPLIES
    - FED-STD-428 APPLIES

- MATERIAL: ALUMINUM SQUARE TUBING, 6061, 1.00 X 1.00 X .125 THK SHARP CORNERS, PER SAE AMS-QQ-A-200/8.
- MATERIAL: ALUMINUM ALLOY PLATE, 6061-T6, .25 NOM STK THK, PER SAE-AMS-QQ-A-200/8.
- FINISH 7.1.1 PLUS 20.4 OF MIL-STD-171, COLOR TAN 33446 PER FED-STD-595.
- PART MARKING: RUBBER STAMP, SILKSCREEN OR STEEL STAMP. PERMANENTLY MARK CAGE CODE AND PART NO (EXAMPLE 81361-199-0141). CHARACTERS TO BE 0.121 HIGH AND BLACK IN COLOR PER MIL-STD-130. LOCATE APPROXIMATELY AS SHOWN.

REVISIONS			
LTR	DESCRIPTION	DATE (YR MO DA)	APPROVED
-V04	BASELINE RELEASE, 199-0141, 12-10-02	13-02-19	SM/MC



FOR REVIEW ONLY

QTY	RECD	DRAWING OR PART NO.	NOMENCLATURE OR MATERIAL	SPECIFICATION	ITEM NO.
4	-6	PAD, SEE NOTE 4			6
5	-5	FRAME, SEE NOTE 3			5
4	-4	FRAME, SEE NOTE 3			4
2	-3	FRAME, SEE NOTE 3			3
4	-2	FRAME, SEE NOTE 3			2
2	-1	FRAME, SEE NOTE 3			1

NEXT ASSY		UNLESS OTHERWISE SPECIFIED		ORIGINAL DATE		U.S. ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND		
199-0142		DIMENSIONS ARE IN INCHES		DRAWN BY: HSW		EDGWOOD CHEMICAL BIOLOGICAL CENTER		
		TOLERANCES ON:		CHECKED:		ABERDEEN PROVING GROUND, MARYLAND, 21010-5424		
		2 PLACE DECIMALS ± .01		SUBMITTED:		POWER CONTROL UNIT		
		3 FRACTIONS ± 1/32		DESIGN APPROVAL:				FRAME WELDMENT
		ANGLES ± 0° 30'		DRAWING APPROVAL:		SIZE	CAGE CODE	
EQUIPMENT CODE NO.		MATERIAL		CONTRACT NO.		E	81361	199-0141
						SCALE	SHEET	
						1/4	1 OF 2	

DISTRIBUTION STATEMENT D. DISTRIBUTION AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND U.S. DOD CONTRACTORS ONLY. CRITICAL TECHNOLOGY. DETERMINATION MADE 12-10-02. OTHER REQUESTS SHALL BE REFERRED TO: TECHNICAL DIRECTOR, EDGWOOD CHEMICAL BIOLOGICAL CENTER, ATTN: RDCB-DEA-D, ABERDEEN PROVING GROUND, MD 21010-5424.

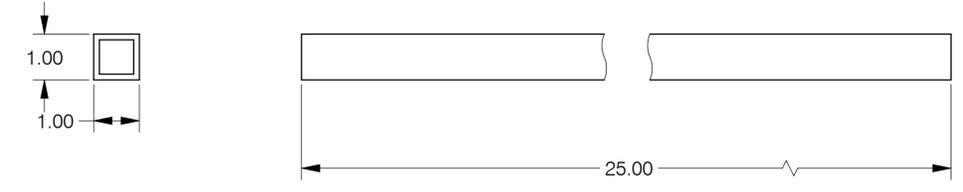
DESTRUCTION NOTICE - DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.

WARNING - THIS DOCUMENT CONTAINS TECHNICAL DATA WHOSE EXPORT IS RESTRICTED BY THE ARMS EXPORT CONTROL ACT (TITLE 22, U.S.C., SEC 2751, et seq.) OR THE EXPORT ADMINISTRATION ACT OF 1979 (TITLE 50, U.S.C., APP. 2401 et seq.), AS AMENDED. VIOLATIONS OF THESE EXPORT LAWS ARE SUBJECT TO SEVERE CRIMINAL PENALTIES. DISSEMINATE IN ACCORDANCE WITH PROVISIONS OF DOD DIRECTIVE 5230.25.

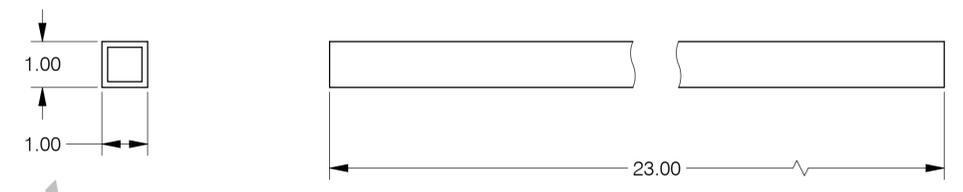
THIS DOCUMENT CONTAINS INFORMATION EXEMPT FROM MANDATORY DISCLOSURE UNDER THE FOIA. FOR OFFICIAL USE ONLY.

REVISIONS			
LTR	DESCRIPTION	DATE (YR-MO-DA)	APPROVED
-v04	BASELINE RELEASE, 199-0141, 12-10-02	13-02-19	SM/MC

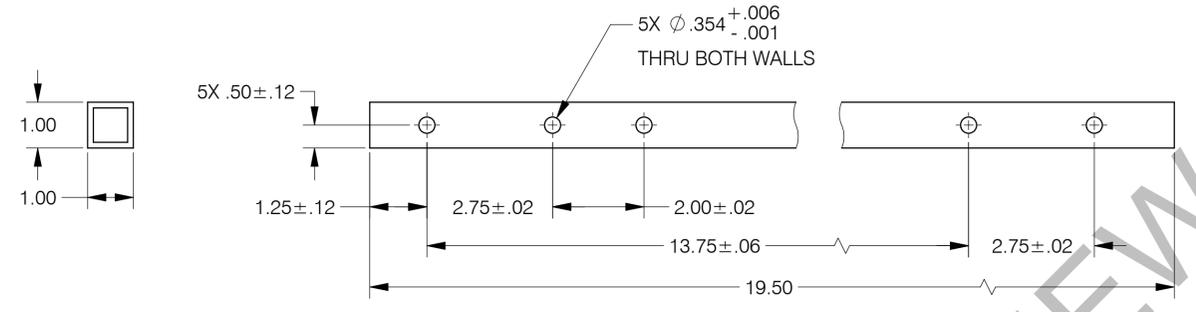
- NOTES:
- THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH ASME Y14.100 WITH THE ADDITION OF APPENDICES B THROUGH E.
  - THE FOLLOWING ARE MANDATORY WHEN INDICATED BY ■
    - REMOVE BURRS     BREAK SHARP EDGES .010 MAX
    - FILLETS R .010 MAX.
    - 125° ALL OVER, EXCEPT AS NOTED
- DIMENSIONS APPLY:
- BEFORE PLATING OR PAINTING
  - AFTER PLATING
  - AFTER PAINTING
- TOLERANCES ON STOCK MATERIAL SIZES, SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS.
- ASME Y14.5M-1994 APPLIES
  - FED-STD-H28 APPLIES



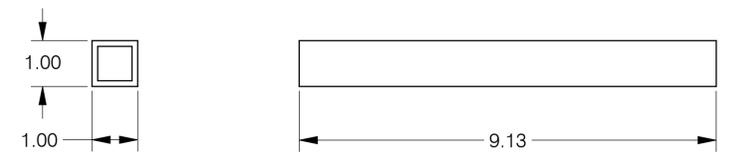
-1



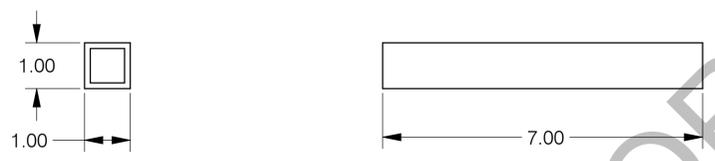
-2



-3



-4



-5



-6

DISTRIBUTION STATEMENT D. DISTRIBUTION AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND U.S. DOD CONTRACTORS ONLY; CRITICAL TECHNOLOGY; DETERMINATION MADE 12-10-02. OTHER REQUESTS SHALL BE REFERRED TO: TECHNICAL DIRECTOR, EDGEWOOD CHEMICAL BIOLOGICAL CENTER, ATTN: RDCB-DEA-D, ABERDEEN PROVING GROUND, MD 21010-5424.

DESTRUCTION NOTICE - DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.

WARNING - THIS DOCUMENT CONTAINS TECHNICAL DATA WHOSE EXPORT IS RESTRICTED BY THE ARMS EXPORT CONTROL ACT (TITLE 22, U.S.C., SEC 2751, et seq.) OR THE EXPORT ADMINISTRATION ACT OF 1979 (TITLE 50, U.S.C., APP. 2401 et seq.), AS AMENDED. VIOLATIONS OF THESE EXPORT LAWS ARE SUBJECT TO SEVERE CRIMINAL PENALTIES. DISSEMINATE IN ACCORDANCE WITH PROVISIONS OF DOD DIRECTIVE 5230.25.

THIS DOCUMENT CONTAINS INFORMATION EXEMPT FROM MANDATORY DISCLOSURE UNDER THE FOIA. FOR OFFICIAL USE ONLY

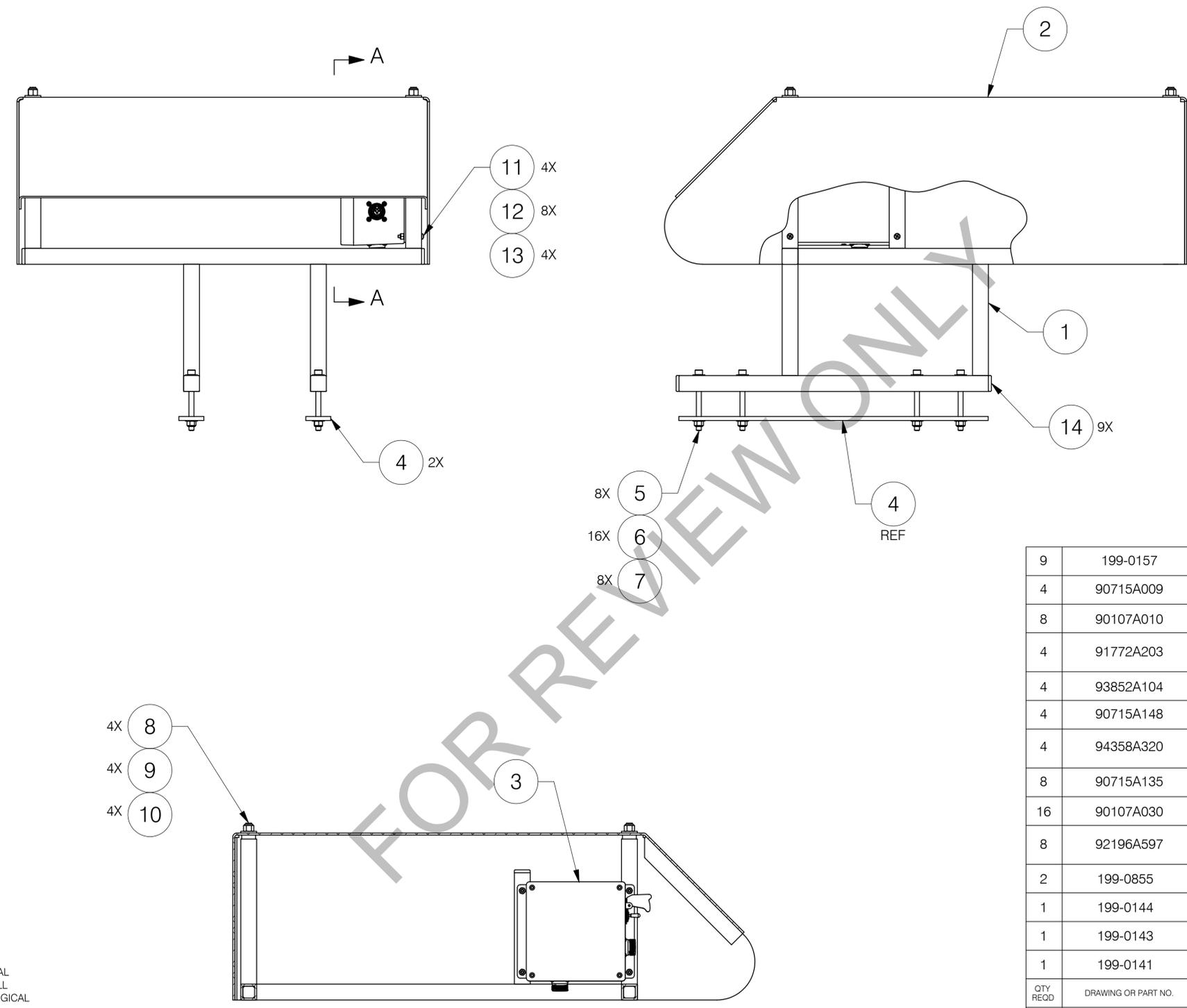
QTY REQD	DRAWING OR PART NO.	NOMENCLATURE OR MATERIAL	SPECIFICATION	ITEM NO.
PARTS LIST				
NEXT ASSY 199-0142	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005 FRACTIONS ± 1/32 ANGLES ± 0° 30'	ORIGINAL DATE 2012-03-14 DRAWN BY HSW CHECKER	U.S. ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND EDGEWOOD CHEMICAL BIOLOGICAL CENTER ABERDEEN PROVING GROUND, MARYLAND, 21010-5424	
EQUIPMENT CODE NO.	MATERIAL	DESIGN APPROVAL	<b>POWER CONTROL UNIT FRAME WELDMENT</b>	
		DRAWING APPROVAL		
		CONTRACT NO.	SIZE D	CAGE CODE 81361
			DWG NO. 199-0141	
			SCALE 1/2	SHEET 2 OF 2

REVISIONS			
LTR	DESCRIPTION	DATE (YR-MO-DA)	APPROVED
-v06	BASELINE RELEASE, 199-0142, 12-10-24	13-02-19	SM/MC

- NOTES:
- THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH ASME Y14.100 WITH THE ADDITION OF APPENDICES B THROUGH E.
  - THE FOLLOWING ARE MANDATORY WHEN INDICATED BY ■
    - REMOVE BURRS
    - BREAK SHARP EDGES .010 MAX
    - FILLETS R .010 MAX.
    - 125 ALL OVER, EXCEPT AS NOTED
  - DIMENSIONS APPLY:
    - BEFORE PLATING OR PAINTING
    - AFTER PLATING
    - AFTER PAINTING
  - TOLERANCES ON STOCK MATERIAL SIZES, SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS.
    - ASME Y14.5M-1994 APPLIES
    - FED-STD-H28 APPLIES

3. SUGGESTED SOURCE OF SUPPLY:  
 MCMaster-CARR SUPPLY COMPANY  
 6100 FULTON INDUSTRIAL BLVD  
 ATLANTA, GA 30336  
 CAGE CODE: 0KVE6

- INSTALL ITEM 8 TO ITEM 1, 4 PLACES IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- INSTALL ITEM 3 TO ITEM 1 USING ITEMS 11, 12, AND 13, 4 PLACES.
- INSTALL ITEM 2 TO ITEM 1 USING ITEMS 8 AND 9, 4 PLACES.
- ATTACH ITEM 4, 2 PLACES TO ITEM 1 USING ITEMS 5, 6, AND 7, 10 PLACES AS SHOWN.
- INSTALL ITEM 14 INTO EXPOSED ENDS OF ITEM 1, 9 PLACES.



SECTION A-A

QTY REQD	DRAWING OR PART NO.	NOMENCLATURE OR MATERIAL	SPECIFICATION	ITEM NO.
9	199-0157	PLUG, FINISHING, SQUARE, 1.00 O.D. TUBE, .74 I.D., SEE NOTE 3		14
4	90715A009	LOCKNUT, HEX, NYLON-INSERT, 316 SS, 8-32UNC-2B, SEE NOTE 3		13
8	90107A010	WASHER, FLAT, NO. 8, 316 SS, .375 O.D., .02-.04 THK, SEE NOTE 3		12
4	91772A203	SCREW, PAN HEAD, CROSS-RECESSED, 18-8 SS, 8-32UNC-2A, 1.50 LG, SEE NOTE 3		11
4	93852A104	WASHER, FLAT, 316 SS, 1.00 O.D., .06-.11 THK, SEE NOTE 3		10
4	90715A148	LOCKNUT, HEX, NYLON-INSERT, .375UNC-2B, SEE NOTE 3		9
4	94358A320	STUD, SELF-LOCKING, SOCKET DRIVE, STEEL, .375-18UNC-3A/.375-16UNC-3A, 1.25 LG, BLACK OXIDE FINISH, SEE NOTE 3		8
8	90715A135	LOCKNUT, HEX, NYLON-INSERT, .312UNC-2B, SEE NOTE 3		7
16	90107A030	WASHER, FLAT, 316 SS, .75 O.D., .04-.05 THK, SEE NOTE 3		6
8	92196A597	SCREW, CAP, SOCKET HEAD, 18-8 SS, .312-18UNC-2A, 3.50 LG, SEE NOTE 3		5
2	199-0855	PLATE, RIGHT ETHERNET BOX COMPRESSION		4
1	199-0144	POWER CONTROL UNIT SWITCH BOX ASSEMBLY		3
1	199-0143	POWER CONTROL UNIT COVER		2
1	199-0141	POWER CONTROL UNIT FRAME WELDMENT		1

DISTRIBUTION STATEMENT D. DISTRIBUTION AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND U.S. DOD CONTRACTORS ONLY; CRITICAL TECHNOLOGY; DETERMINATION MADE 00-00-00. OTHER REQUESTS SHALL BE REFERRED TO: TECHNICAL DIRECTOR, EDGEWOOD CHEMICAL BIOLOGICAL CENTER, ATTN: RDCB-DEA-D, ABERDEEN PROVING GROUND, MD 21010-5424.

DESTRUCTION NOTICE - DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.

WARNING - THIS DOCUMENT CONTAINS TECHNICAL DATA WHOSE EXPORT IS RESTRICTED BY THE ARMS EXPORT CONTROL ACT (TITLE 22, U.S.C., SEC 2751, et seq.) OR THE EXPORT ADMINISTRATION ACT OF 1979 (TITLE 50, U.S.C., APP. 2401 et seq.), AS AMENDED. VIOLATIONS OF THESE EXPORT LAWS ARE SUBJECT TO SEVERE CRIMINAL PENALTIES. DISSEMINATE IN ACCORDANCE WITH PROVISIONS OF DOD DIRECTIVE 5230.25.

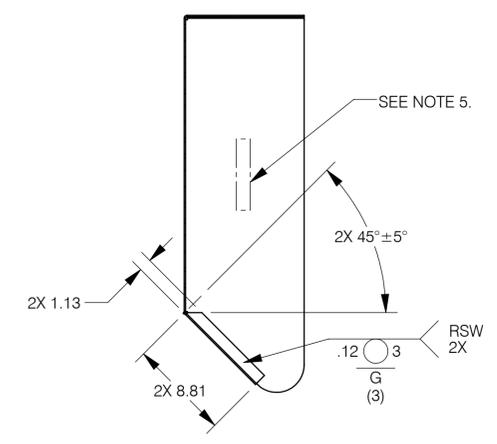
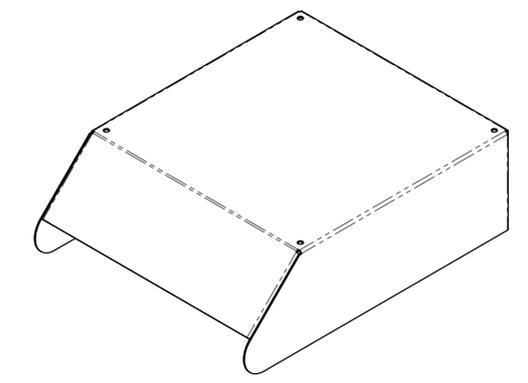
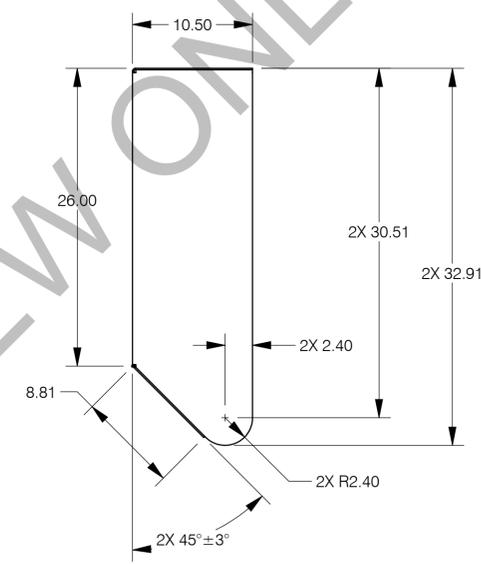
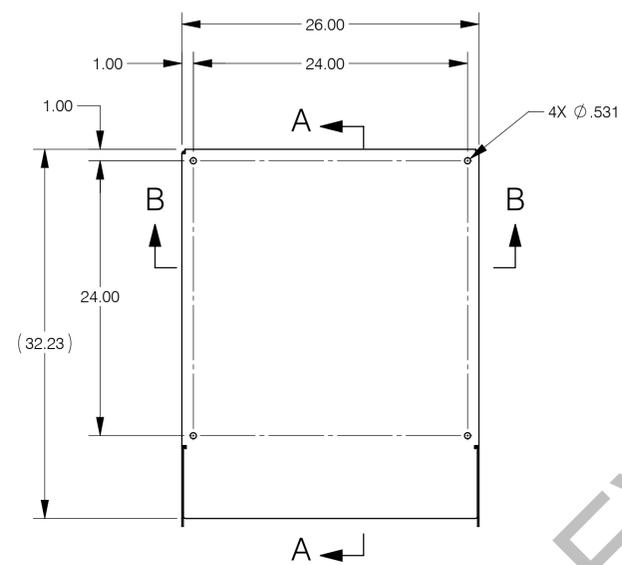
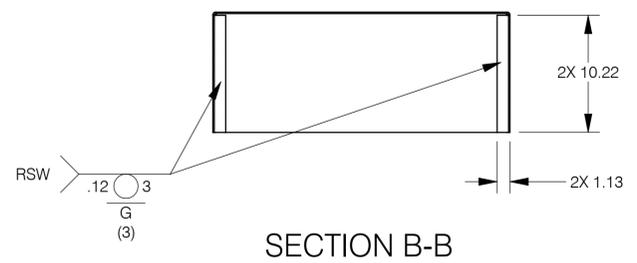
THIS DOCUMENT CONTAINS INFORMATION EXEMPT FROM MANDATORY DISCLOSURE UNDER THE FOIA. FOR OFFICIAL USE ONLY

NEXT ASSY		UNLESS OTHERWISE SPECIFIED		ORIGINAL DATE (YR-MO-DA)		U.S. ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND	
199-6530	199-6531	DIMENSIONS ARE IN INCHES		2012-03-15		EDGEWOOD CHEMICAL BIOLOGICAL CENTER	
		TOLERANCES ON:		DRAWN BY HSW		ABERDEEN PROVING GROUND, MARYLAND, 21010-5424	
		2 PLACE DECIMALS ± .01		SUBMITTED		POWER CONTROL UNIT ASSEMBLY	
		3 PLACE DECIMALS ± .005		DESIGN APPROVAL			
		FRACTIONS ± 1/32		DRAWING APPROVAL			
		ANGLES ± 0° 30'		CONTRACT NO.			
EQUIPMENT CODE NO.		MATERIAL		SCALE 1/4		SHEET	
				SIZE D		CAGE CODE 81361	
				DWG NO. 199-0142			

NOTES:

- 1. THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH ASME Y14.100 WITH THE ADDITION OF APPENDICES B THROUGH E.
  - 2. THE FOLLOWING ARE MANDATORY WHEN INDICATED BY ■
    - REMOVE BURRS ■ BREAK SHARP EDGES .010 MAX
    - FILLETS R .010 MAX.
    - $125^\circ$  ALL OVER, EXCEPT AS NOTED
  - DIMENSIONS APPLY:
    - BEFORE PLATING OR PAINTING
    - AFTER PLATING
    - AFTER PAINTING
  - TOLERANCES ON STOCK MATERIAL SIZES, SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS.
  - ASME Y14.5M-1994 APPLIES
  - FED-STD-H28 APPLIES
3. MATERIAL: ALUMINUM ALLOY SHEET, 6061-T6, .125 THICK IAW ASTM B209
4. FINISH 7.1.1 PLUS 20.4 OF MIL-STD-171, COLOR TAN 33446 PER FED-STD-595.
5. PART MARKING: RUBBER STAMP, SILKSCREEN OR STEEL STAMP. PERMANENTLY MARK CAGE CODE AND PART NO (EXMAPLE 81361-199-0143). CHARACTERS TO BE 0.121 HIGH AND BLACK IN COLOR PER MIL-STD-130. LOCATE APPROXIMATELY AS SHOWN.
6. ALL BEND RADII SHALL BE R.13

REVISIONS			
LTR	DESCRIPTION	DATE (YR-MO-DA)	APPROVED
-v04	BASELINE RELEASE	13-02-19	SM/MC



SECTION A-A



DISTRIBUTION STATEMENT D. DISTRIBUTION AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND U.S. DOD CONTRACTORS ONLY; CRITICAL TECHNOLOGY; DETERMINATION MADE 00-00-00. OTHER REQUESTS SHALL BE REFERRED TO: TECHNICAL DIRECTOR, EDGEWOOD CHEMICAL BIOLOGICAL CENTER, ATTN: RDCB-DEA-D, ABERDEEN PROVING GROUND, MD 21010-5424.

DESTRUCTION NOTICE - DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.

WARNING - THIS DOCUMENT CONTAINS TECHNICAL DATA WHOSE EXPORT IS RESTRICTED BY THE ARMS EXPORT CONTROL ACT (TITLE 22, U.S.C., SEC 2751, et seq.) OR THE EXPORT ADMINISTRATION ACT OF 1979 (TITLE 50, U.S.C., APP. 2401 et seq.), AS AMENDED. VIOLATIONS OF THESE EXPORT LAWS ARE SUBJECT TO SEVERE CRIMINAL PENALTIES. DISSEMINATE IN ACCORDANCE WITH PROVISIONS OF DOD DIRECTIVE 5230.25.

THIS DOCUMENT CONTAINS INFORMATION EXEMPT FROM MANDATORY DISCLOSURE UNDER THE FOIA. FOR OFFICIAL USE ONLY

QTY REQD	DWG SIZE	DRAWING OR PART NO.	NOMENCLATURE OR MATERIAL	SPECIFICATION	ITEM NO.
PARTS LIST					
NEXT ASSY	UNLESS OTHERWISE SPECIFIED		ORIGINAL DATE	U.S. ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND	
199-0142	DIMENSIONS ARE IN INCHES		13-01-30	EDGEWOOD CHEMICAL BIOLOGICAL CENTER	
	TOLERANCES ON:		DRAWN BY	ABERDEEN PROVING GROUND, MARYLAND, 21010-5424	
	2 PLACE DECIMALS ± .01		HSW	POWER CONTROL UNIT COVER	
	3 PLACE DECIMALS ± .005		CHECKER		
	FRACTIONS ± 1/32		SUBMITTED		
	ANGLES ± 0° 30'		DESIGN APPROVAL		
EQUIPMENT CODE NO.	MATERIAL		DRAWING APPROVAL	SIZE	CAGE CODE
	SEE NOTE 3		CONTRACT NO.	D	81361
				DWG NO.	199-0143
				SCALE	1/8
				SHEET	1



4

3

2

1

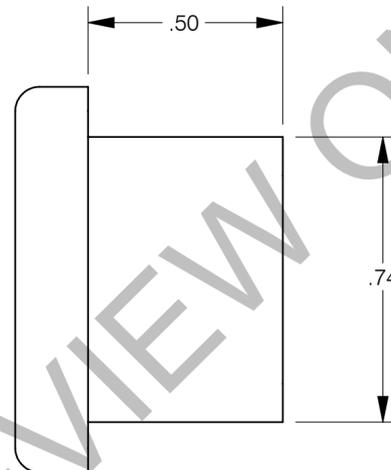
NOTES:

- 1. THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH ASME Y14.100 WITH THE ADDITION OF APPENDICES B THROUGH E.
- 2. THE FOLLOWING ARE MANDATORY WHEN INDICATED BY 
  - REMOVE BURRS     BREAK SHARP EDGES .010 MAX
  - FILLETS R .010 MAX
  - <sup>125</sup> ALL OVER, EXCEPT AS NOTED
- DIMENSIONS APPLY:
  - BEFORE PLATING OR PAINTING
  - AFTER PLATING
  - AFTER PAINTING
- TOLERANCES ON STOCK MATERIAL SIZES, SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS.
- ASME Y14.5M-1994 APPLIES
- FED-STD-H28 APPLIES

- 3. IDENTIFICATION OF THE SUGGESTED SOURCE(S) OF SUPPLY HEREON IS NOT TO BE CONSTRUED AS A GUARANTEE OF PRESENT OR CONTINUED AVAILABILITY AS A SOURCE OF SUPPLY FOR THE ITEM.
- 4. MATERIAL: POLYETHYLENE  
COLOR: BLACK

SUGGESTED SOURCES OF SUPPLY			
CONTROL NUMBER	SUPPLIER DATA		
	CAGE CODE	PART NUMBER	NAME AND ADDRESS
199-0157	39428	9565K12	MCMMASTER-CARR SUPPLY COMPANY 600 COUNTY LINE RD ELMHURST, RD 60126

REVISIONS			
LTR	DESCRIPTION	DATE (YR-MO-DA)	APPROVED
-v01	BASELINE RELEASE 199-0142, 13-10-24	13-02-15	SM/MC



FOR REVIEW ONLY

DISTRIBUTION STATEMENT D. DISTRIBUTION AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND U.S. DOD CONTRACTORS ONLY; CRITICAL TECHNOLOGY; DETERMINATION MADE 00-00-00. OTHER REQUESTS SHALL BE REFERRED TO: TECHNICAL DIRECTOR, EDGEWOOD CHEMICAL BIOLOGICAL CENTER, ATTN: RDCB-DEA-D, ABERDEEN PROVING GROUND, MD 21010-5424.

DESTRUCTION NOTICE - DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.

WARNING - THIS DOCUMENT CONTAINS TECHNICAL DATA WHOSE EXPORT IS RESTRICTED BY THE ARMS EXPORT CONTROL ACT (TITLE 22, U.S.C., SEC 2751, et seq.) OR THE EXPORT ADMINISTRATION ACT OF 1979 (TITLE 50, U.S.C., APP. 2401 et seq.), AS AMENDED. VIOLATIONS OF THESE EXPORT LAWS ARE SUBJECT TO SEVERE CRIMINAL PENALTIES. DISSEMINATE IN ACCORDANCE WITH PROVISIONS OF DOD DIRECTIVE 5230.25.

THIS DOCUMENT CONTAINS INFORMATION EXEMPT FROM MANDATORY DISCLOSURE UNDER THE FOIA.  
FOR OFFICIAL USE ONLY

### VENDOR ITEM CONTROL DRAWING

QTY REQD	DRAWING OR PART NO.	NOMENCLATURE OR MATERIAL	SPECIFICATION	ITEM NO.
PARTS LIST				
NEXT ASSY		UNLESS OTHERWISE SPECIFIED	ORIGINAL DATE	
199-0142		DIMENSIONS ARE IN INCHES TOLERANCES ON: 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005 FRACTIONS ± 1/32 ANGLES ± 0° 30'	13-02-15	
EQUIPMENT CODE NO.			DRAWN BY: JJC    CHECKER:	
		MATERIAL	DESIGN APPROVAL	
			DRAWING APPROVAL	
			CONTRACT NO.	
		U.S. ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND EDGEWOOD CHEMICAL BIOLOGICAL CENTER ABERDEEN PROVING GROUND, MARYLAND, 21010-5424		
		FINISHING PLUG		
	SIZE	CAGE CODE	DWG NO.	
	C	81361	199-0157	
SCALE 1/1		SHEET		

4

3

2

1

4

3

2

1

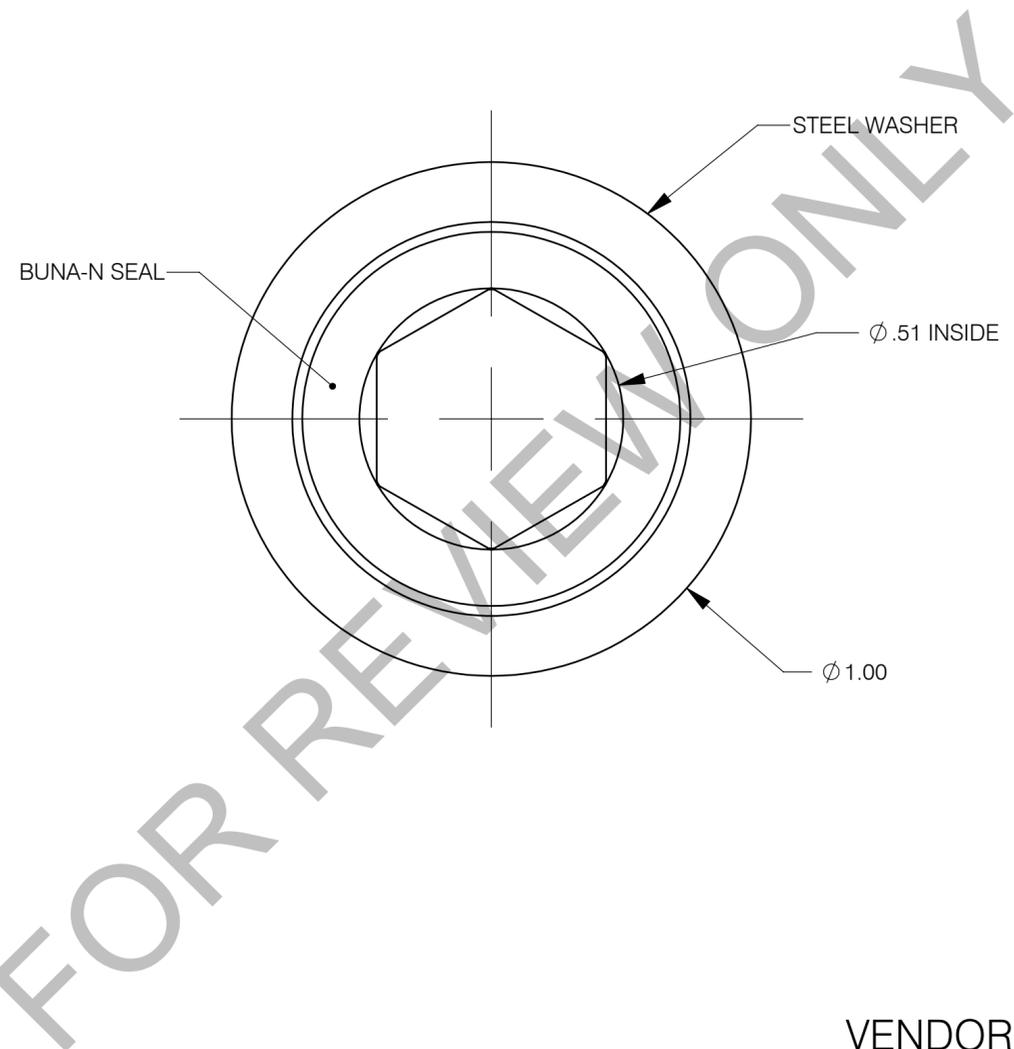
NOTES:

- 1. THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH ASME Y14.100 WITH THE ADDITION OF APPENDICES B THROUGH E.
- 2. THE FOLLOWING ARE MANDATORY WHEN INDICATED BY ■
  - REMOVE BURRS     BREAK SHARP EDGES .010 MAX
  - FILLETS R .010 MAX
  - 125 ALL OVER, EXCEPT AS NOTED
- DIMENSIONS APPLY:
  - BEFORE PLATING OR PAINTING
  - AFTER PLATING
  - AFTER PAINTING
- TOLERANCES ON STOCK MATERIAL SIZES, SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS.
- ASME Y14.5M-1994 APPLIES
- FED-STD-H28 APPLIES

3. IDENTIFICATION OF THE SUGGESTED SOURCE(S) OF SUPPLY HEREON IS NOT TO BE CONSTRUED AS A GUARANTEE OF PRESENT OR CONTINUED AVAILABILITY AS A SOURCE OF SUPPLY FOR THE ITEM.

SUGGESTED SOURCES OF SUPPLY			
CONTROL NUMBER	SUPPLIER DATA		
	CAGE CODE	PART NUMBER	NAME AND ADDRESS
199-0163	39428	93781A033	MCMaster-CARR SUPPLY COMPANY 600 COUNTY LINE RD ELMHURST, RD 60126

REVISIONS			
LTR	DESCRIPTION	DATE (YR-MO-DA)	APPROVED
-v01	BASELINE RELEASE 199-0144, 12-09-19	13-02-15	SM/MC



DISTRIBUTION STATEMENT D. DISTRIBUTION AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND U.S. DOD CONTRACTORS ONLY; CRITICAL TECHNOLOGY; DETERMINATION MADE 00-00-00. OTHER REQUESTS SHALL BE REFERRED TO: TECHNICAL DIRECTOR, EDGEWOOD CHEMICAL BIOLOGICAL CENTER, ATTN: RDCB-DEA-D, ABERDEEN PROVING GROUND, MD 21010-5424.

DESTRUCTION NOTICE - DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.

WARNING - THIS DOCUMENT CONTAINS TECHNICAL DATA WHOSE EXPORT IS RESTRICTED BY THE ARMS EXPORT CONTROL ACT (TITLE 22, U.S.C., SEC 2751, et seq.) OR THE EXPORT ADMINISTRATION ACT OF 1979 (TITLE 50, U.S.C., APP. 2401 et seq.), AS AMENDED. VIOLATIONS OF THESE EXPORT LAWS ARE SUBJECT TO SEVERE CRIMINAL PENALTIES. DISSEMINATE IN ACCORDANCE WITH PROVISIONS OF DOD DIRECTIVE 5230.25.

THIS DOCUMENT CONTAINS INFORMATION EXEMPT FROM MANDATORY DISCLOSURE UNDER THE FOIA. FOR OFFICIAL USE ONLY

VENDOR ITEM CONTROL DRAWING

QTY REQD	DRAWING OR PART NO.	NOMENCLATURE OR MATERIAL	SPECIFICATION	ITEM NO.
PARTS LIST				
NEXT ASSY	UNLESS OTHERWISE SPECIFIED	ORIGINAL DATE (YR-MO-DA)	U.S. ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND EDGEWOOD CHEMICAL BIOLOGICAL CENTER ABERDEEN PROVING GROUND, MARYLAND, 21010-5424	
199-0144	DIMENSIONS ARE IN INCHES TOLERANCES ON: 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005 FRACTIONS ± 1/32 ANGLES ± 0° 30'	13-02-15	<b>PRESSURE SEALING WASHER</b>	
		DRAWN BY: JJC		
		CHECKER:	SIZE: C    CAGE CODE: 81361    DWG NO.: 199-0163	
		SUBMITTED:		
		DESIGN APPROVAL:	SCALE: 4/1    SHEET:	
		DRAWING APPROVAL:		
EQUIPMENT CODE NO.		CONTRACT NO.:		

4

3

2

1

NOTES:  
 1. THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH ASME Y14.100 WITH THE ADDITION OF APPENDICES B THROUGH E.

2. THE FOLLOWING ARE MANDATORY WHEN INDICATED BY ■

- REMOVE BURRS □ BREAK SHARP EDGES .010 MAX
- FILLETS R .010 MAX.
- $125^\circ$  ALL OVER, EXCEPT AS NOTED

DIMENSIONS APPLY:

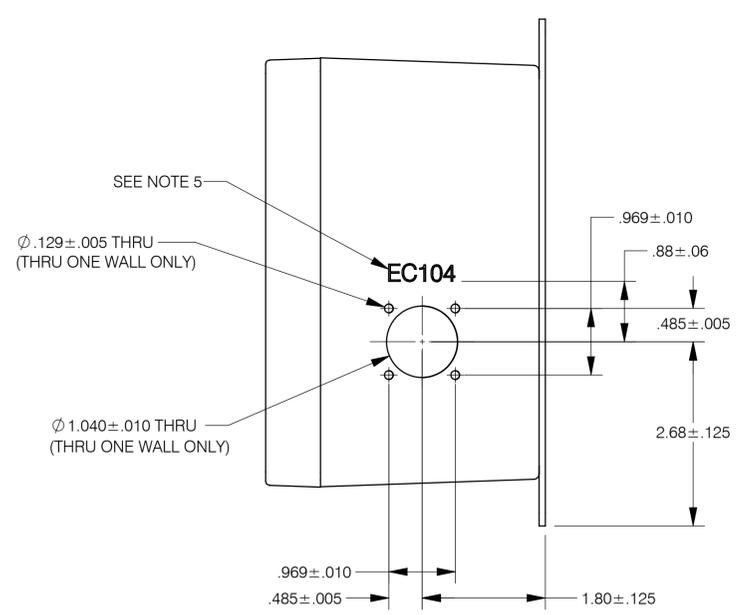
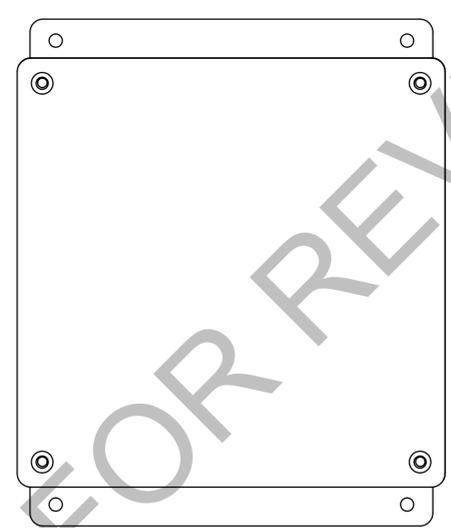
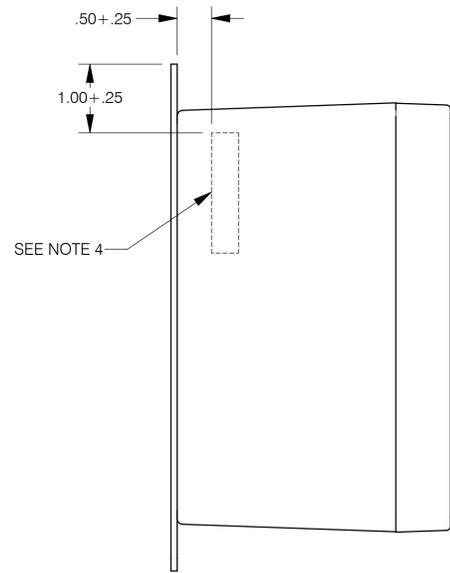
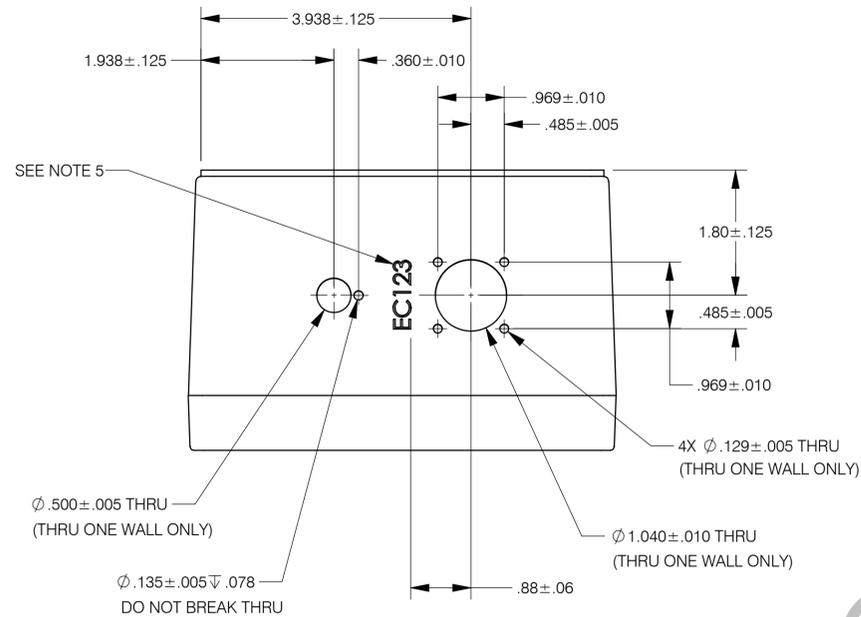
- BEFORE PLATING OR PAINTING
- AFTER PLATING
- AFTER PAINTING
- TOLERANCES ON STOCK MATERIAL SIZES, SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS.
- ASME Y14.5M-1994 APPLIES
- FED-STD-H28 APPLIES

3. MAKE FROM PART NO. 199-0921.

4. PART MARKING: RUBBER STAMP, SILKSCREEN OR STEEL STAMP. PERMANENTLY MARK CAGE CODE AND PART NO. (EXAMPLE 81361-199-0164). CHARACTERS TO BE 0.121 HIGH AND BLACK IN COLOR PER MIL-STD-130. LOCATE APPROXIMATELY AS SHOWN.

5. STENCILING: RUBBER STAMP OR SILKSCREEN. PERMANENTLY MARK TEXT AS SHOWN. CHARACTERS TO BE 0.25 HIGH AND BLACK IN COLOR PER MIL-STD-130.

REVISIONS			
LTR	DESCRIPTION	DATE (YR-MO-DA)	APPROVED
-V05	BASELINE RELEASE; NOTE 3, 199-0924 WAS 199-0178	13-02-19	SM/MC



DISTRIBUTION STATEMENT D. DISTRIBUTION AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND U.S. DOD CONTRACTORS ONLY; CRITICAL TECHNOLOGY; DETERMINATION MADE 00-00-00. OTHER REQUESTS SHALL BE REFERRED TO: TECHNICAL DIRECTOR, EDGEWOOD CHEMICAL BIOLOGICAL CENTER, ATTN: RDCEB-DEA-D, ABERDEEN PROVING GROUND, MD 21010-5424.

DESTRUCTION NOTICE - DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.

WARNING - THIS DOCUMENT CONTAINS TECHNICAL DATA WHOSE EXPORT IS RESTRICTED BY THE ARMS EXPORT CONTROL ACT (TITLE 22, U.S.C., SEC 2751, et seq.) OR THE EXPORT ADMINISTRATION ACT OF 1979 (TITLE 50, U.S.C., APP. 2401 et seq.), AS AMENDED. VIOLATIONS OF THESE EXPORT LAWS ARE SUBJECT TO SEVERE CRIMINAL PENALTIES. DISSEMINATE IN ACCORDANCE WITH PROVISIONS OF DOD DIRECTIVE 5230.25.

THIS DOCUMENT CONTAINS INFORMATION EXEMPT FROM MANDATORY DISCLOSURE UNDER THE FOIA. FOR OFFICIAL USE ONLY

QTY REQD	DWG SIZE	DRAWING OR PART NO.	NOMENCLATURE OR MATERIAL	SPECIFICATION	ITEM NO.
PARTS LIST					
NEXT ASSY 199-0144	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005 FRACTIONS ± 1/32 ANGLES ± 0° 30'		ORIGINAL DATE 12-03-26	U.S. ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND EDGEWOOD CHEMICAL BIOLOGICAL CENTER ABERDEEN PROVING GROUND, MARYLAND, 21010-5424	
			DRAWN BY HSW	CHECKER	<b>POWER CONTROL UNIT SWITCH BOX, MODIFIED</b>
			DESIGN APPROVAL		
			DRAWING APPROVAL		
			CONTRACT NO.		
EQUIPMENT CODE NO.			SIZE D	CAGE CODE 81361	DWG NO. 199-0164
			SCALE NONE	SHEET	

4

3

2

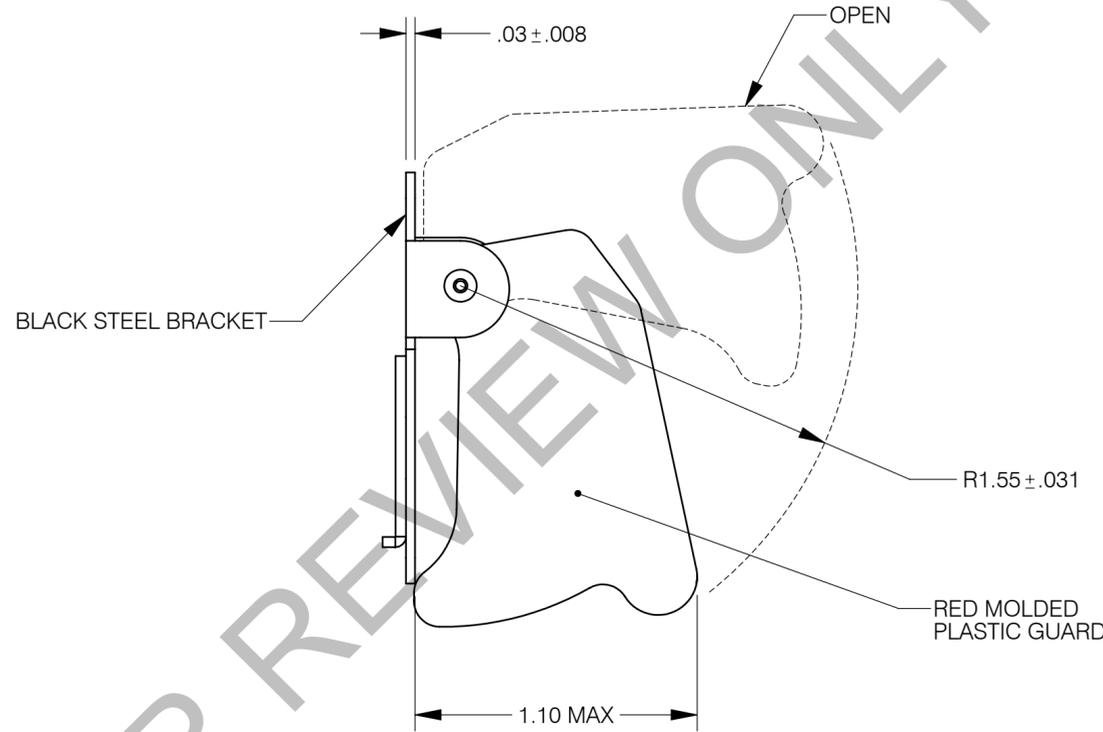
1

NOTES:

- 1. THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH ASME Y14.100 WITH THE ADDITION OF APPENDICES B THROUGH E.
- 2. THE FOLLOWING ARE MANDATORY WHEN INDICATED BY ■
  - REMOVE BURRS     BREAK SHARP EDGES .010 MAX
  - FILLETS R .010 MAX
  - 125 ALL OVER, EXCEPT AS NOTED
- DIMENSIONS APPLY:
  - BEFORE PLATING OR PAINTING
  - AFTER PLATING
  - AFTER PAINTING
- TOLERANCES ON STOCK MATERIAL SIZES, SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS.
- ASME Y14.5M-1994 APPLIES
- FED-STD-H28 APPLIES
- 3. IDENTIFICATION OF THE SUGGESTED SOURCE(S) OF SUPPLY HEREON IS NOT TO BE CONSTRUED AS A GUARANTEE OF PRESENT OR CONTINUED AVAILABILITY AS A SOURCE OF SUPPLY FOR THE ITEM.

SUGGESTED SOURCES OF SUPPLY			
CONTROL NUMBER	SUPPLIER DATA		
	CAGE CODE	PART NUMBER	NAME AND ADDRESS
199-0165	2S894	480-4034ND	DIGI-KEY CORP 701 BROOKS AVE THIEF RIVER FALLS, MN 56701-2757
199-0165	94603	19PA217-NT	HONEYWELL SENSING AND CONTROL 75 DISCOVERY WAY ACTON, MA 01720-4482

REVISIONS			
LTR	DESCRIPTION	DATE (YR-MO-DA)	APPROVED
-v01	BASELINE RELEASE 199-0144, 12-09-19	13-02-15	SM/MC



DISTRIBUTION STATEMENT D. DISTRIBUTION AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND U.S. DOD CONTRACTORS ONLY; CRITICAL TECHNOLOGY; DETERMINATION MADE 00-00-00. OTHER REQUESTS SHALL BE REFERRED TO: TECHNICAL DIRECTOR, EDGEWOOD CHEMICAL BIOLOGICAL CENTER, ATTN: RDCB-DEA-D, ABERDEEN PROVING GROUND, MD 21010-5424.

DESTRUCTION NOTICE - DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.

WARNING - THIS DOCUMENT CONTAINS TECHNICAL DATA WHOSE EXPORT IS RESTRICTED BY THE ARMS EXPORT CONTROL ACT (TITLE 22, U.S.C., SEC 2751, et seq.) OR THE EXPORT ADMINISTRATION ACT OF 1979 (TITLE 50, U.S.C., APP. 2401 et seq.), AS AMENDED. VIOLATIONS OF THESE EXPORT LAWS ARE SUBJECT TO SEVERE CRIMINAL PENALTIES. DISSEMINATE IN ACCORDANCE WITH PROVISIONS OF DOD DIRECTIVE 5230.25.

THIS DOCUMENT CONTAINS INFORMATION EXEMPT FROM MANDATORY DISCLOSURE UNDER THE FOIA.  
FOR OFFICIAL USE ONLY

### VENDOR ITEM CONTROL DRAWING

QTY REQD	DRAWING OR PART NO.	NOMENCLATURE OR MATERIAL	SPECIFICATION	ITEM NO.
PARTS LIST				
NEXT ASSY 199-0144		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005 FRACTIONS ± 1/32 ANGLES ± 0° 30'	ORIGINAL DATE (YR-MO-DA) 13-02-15 DRAWN BY JJC CHECKER SUBMITTED DESIGN APPROVAL DRAWING APPROVAL CONTRACT NO.	
EQUIPMENT CODE NO.		MATERIAL	U.S. ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND EDGEWOOD CHEMICAL BIOLOGICAL CENTER ABERDEEN PROVING GROUND, MARYLAND, 21010-5424	
			<b>SWITCH GUARD, 2 POSITION</b>	
			SIZE <b>C</b>	CAGE CODE 81361
			DWG NO. <b>199-0165</b>	
SCALE 2/1			SHEET	

4

3

2

1



4

3

2

1

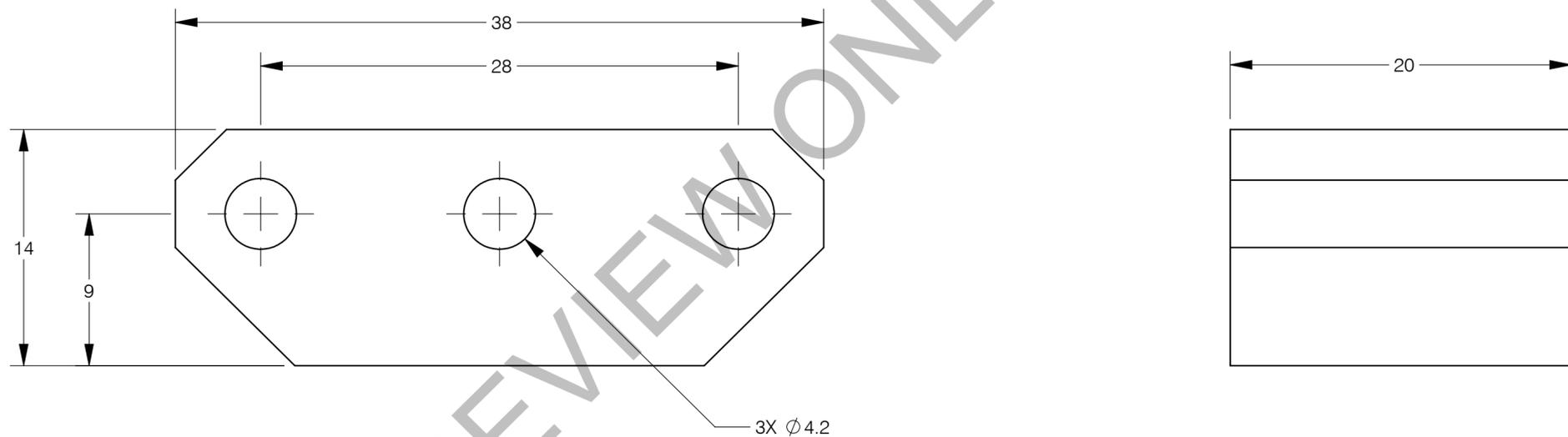
NOTES:

- 1. THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH ASME Y14.100 WITH THE ADDITION OF APPENDICES B THROUGH E.
- 2. THE FOLLOWING ARE MANDATORY WHEN INDICATED BY 
  - REMOVE BURRS     BREAK SHARP EDGES 0.25 MAX
  - FILLETS R 0.25 MAX
  - 3.2  ALL OVER, EXCEPT AS NOTED
- DIMENSIONS APPLY:
  - BEFORE PLATING OR PAINTING
  - AFTER PLATING
  - AFTER PAINTING
- TOLERANCES ON STOCK MATERIAL SIZES, SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS.
- ASME Y14.5M-1994 APPLIES
- FED-STD-H28 APPLIES

- 3. METRIC, 1 INCH = 25.4 MM APPLIES.
- 4. IDENTIFICATION OF THE SUGGESTED SOURCE(S) OF SUPPLY HEREON IS NOT TO BE CONSTRUED AS A GUARANTEE OF PRESENT OR CONTINUED AVAILABILITY AS A SOURCE OF SUPPLY FOR THE ITEM.
- 5. REQUIREMENTS:
  - A) HOUSING MATERIAL: PLASTIC
  - B) WEIGHT: APPROX 12g
  - C) OPERATING/STOWAGE TEMPERATURE: -40° THRU +85° C
- 6. WHEN PROCURED FROM CAGE CODE: 0RPE1, MOUNTING HARDWARE SHALL BE SUPPLIED.

SUGGESTED SOURCES OF SUPPLY			
CONTROL NUMBER	SUPPLIER DATA		
	CAGE CODE	PART NUMBER	NAME AND ADDRESS
199-0170	0RPE1	BAM014M/BTL5-P-3800-2	BALLUFF INC 8125 HOLTON DR FLORENCE, KY 41042

REVISIONS			
LTR	DESCRIPTION	DATE (YR-MO-DA)	APPROVED
-v01	BASELINE RELEASE	13-03-13	SM/MC



FOR REVIEW ONLY

DISTRIBUTION STATEMENT D. DISTRIBUTION AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND U.S. DOD CONTRACTORS ONLY; CRITICAL TECHNOLOGY; DETERMINATION MADE 00-00-00. OTHER REQUESTS SHALL BE REFERRED TO: TECHNICAL DIRECTOR, EDGEWOOD CHEMICAL BIOLOGICAL CENTER, ATTN: RDCB-DEA-D, ABERDEEN PROVING GROUND, MD 21010-5424.

DESTRUCTION NOTICE - DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.

WARNING - THIS DOCUMENT CONTAINS TECHNICAL DATA WHOSE EXPORT IS RESTRICTED BY THE ARMS EXPORT CONTROL ACT (TITLE 22, U.S.C., SEC 2751, et seq.) OR THE EXPORT ADMINISTRATION ACT OF 1979 (TITLE 50, U.S.C., APP. 2401 et seq.), AS AMENDED. VIOLATIONS OF THESE EXPORT LAWS ARE SUBJECT TO SEVERE CRIMINAL PENALTIES. DISSEMINATE IN ACCORDANCE WITH PROVISIONS OF DOD DIRECTIVE 5230.25.

THIS DOCUMENT CONTAINS INFORMATION EXEMPT FROM MANDATORY DISCLOSURE UNDER THE FOIA.

FOR OFFICIAL USE ONLY



VENDOR ITEM CONTROL DRAWING

QTY REQD	DRAWING OR PART NO.	NOMENCLATURE OR MATERIAL	SPECIFICATION	ITEM NO.
PARTS LIST				
NEXT ASSY	UNLESS OTHERWISE SPECIFIED	ORIGINAL DATE (YR-MO-DA)	U.S. ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND EDGEWOOD CHEMICAL BIOLOGICAL CENTER ABERDEEN PROVING GROUND, MARYLAND, 21010-5424	
199-0172	DIMENSIONS ARE IN MM TOLERANCES ON: WHOLE NUMBERS ± 1 PLACE DECIMALS ± 2 PLACE DECIMALS ± ANGLES ± 0° 30'	13-03-13	<b>TRANSDUCER MAGNET</b>	
199-0173		DRAWN BY: JJC		
	MATERIAL	CHECKER:	<b>TRANSDUCER MAGNET</b>	
		SUBMITTED:		
	EQUIPMENT CODE NO.	DESIGN APPROVAL:	SIZE: C	CAGE CODE: 81361
		DRAWING APPROVAL:	DWG NO.: 199-0170	
		CONTRACT NO.:	SCALE: 4/1	SHEET:

4

3

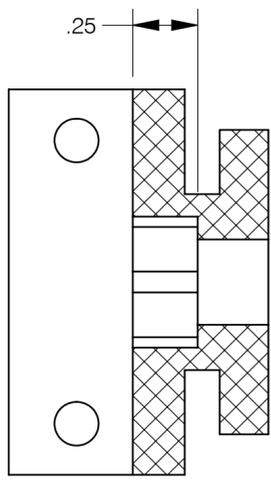
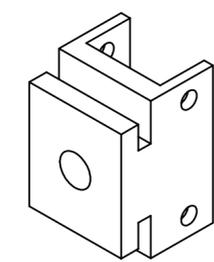
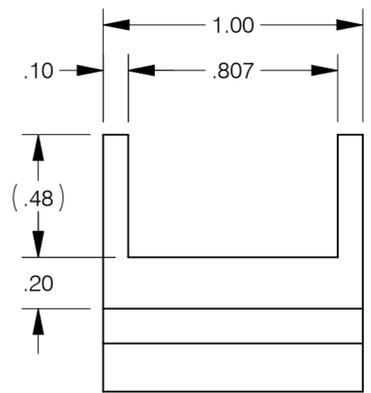
2

1

NOTES:

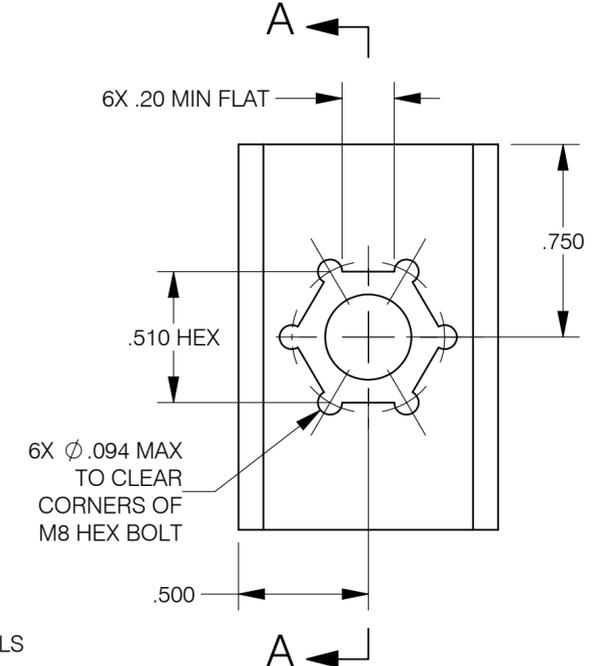
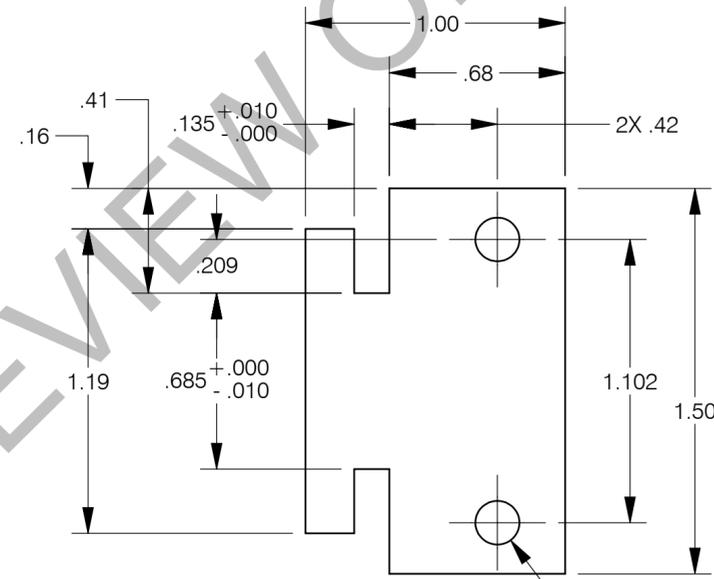
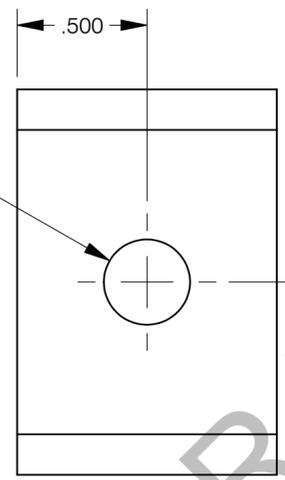
- 1. THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH ASME Y14.100 WITH THE ADDITION OF APPENDICES B THROUGH E.
- 2. THE FOLLOWING ARE MANDATORY WHEN INDICATED BY ■
  - REMOVE BURRS     BREAK SHARP EDGES .010 MAX
  - FILLETS R .010 MAX
  - 125 ✓ ALL OVER, EXCEPT AS NOTED
- DIMENSIONS APPLY:
  - BEFORE PLATING OR PAINTING
  - AFTER PLATING
  - AFTER PAINTING
- TOLERANCES ON STOCK MATERIAL SIZES, SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS.
- ASME Y14.5M-1994 APPLIES
- FED-STD-H28 APPLIES

REVISIONS			
LTR	DESCRIPTION	DATE (YR-MO-DA)	APPROVED
-v03	BASELINE RELEASE WITH 199-0171, 12-09-25	13-03-07	SM/MC



SECTION A-A

Ø .332<sup>+.006</sup><sub>-.001</sub>  
THRU ALL



DISTRIBUTION STATEMENT D. DISTRIBUTION AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND U.S. DOD CONTRACTORS ONLY; CRITICAL TECHNOLOGY; DETERMINATION MADE 00-00-00. OTHER REQUESTS SHALL BE REFERRED TO: TECHNICAL DIRECTOR, EDGEWOOD CHEMICAL BIOLOGICAL CENTER, ATTN: RDCB-DEA-D, ABERDEEN PROVING GROUND, MD 21010-5424.

DESTRUCTION NOTICE - DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.

WARNING - THIS DOCUMENT CONTAINS TECHNICAL DATA WHOSE EXPORT IS RESTRICTED BY THE ARMS EXPORT CONTROL ACT (TITLE 22, U.S.C., SEC 2751, et seq.) OR THE EXPORT ADMINISTRATION ACT OF 1979 (TITLE 50, U.S.C., APP. 2401 et seq.), AS AMENDED. VIOLATIONS OF THESE EXPORT LAWS ARE SUBJECT TO SEVERE CRIMINAL PENALTIES. DISSEMINATE IN ACCORDANCE WITH PROVISIONS OF DOD DIRECTIVE 5230.25.

THIS DOCUMENT CONTAINS INFORMATION EXEMPT FROM MANDATORY DISCLOSURE UNDER THE FOIA.  
FOR OFFICIAL USE ONLY

QTY REQ	DRAWING OR PART NO.	NOMENCLATURE OR MATERIAL	SPECIFICATION	ITEM NO.
PARTS LIST				
NEXT ASSY	UNLESS OTHERWISE SPECIFIED	ORIGINAL DATE (YR-MO-DA)	U.S. ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND EDGEWOOD CHEMICAL BIOLOGICAL CENTER ABERDEEN PROVING GROUND, MARYLAND, 21010-5424	
199-0172	DIMENSIONS ARE IN INCHES	12-05-02	<h1>MAGNET HOLDER</h1>	
199-0173	TOLERANCES ON:	DRAWN BY: HSW    CHECKER:		
	2 PLACE DECIMALS ± .01	DESIGN APPROVAL:	<h2>199-0171</h2>	
	3 PLACE DECIMALS ± .005	DRAWING APPROVAL:		
	FRACTIONS ± 1/32	CONTRACT NO.:	SIZE: C	CAGE CODE: 81361
	ANGLES ± 0° 30'		SCALE:	SHEET:
	MATERIAL:			
	DELFIN			
	EQUIPMENT CODE NO.			

4

3

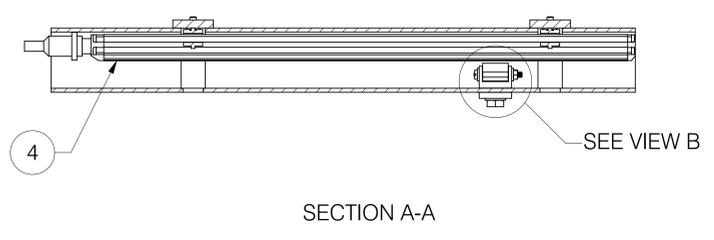
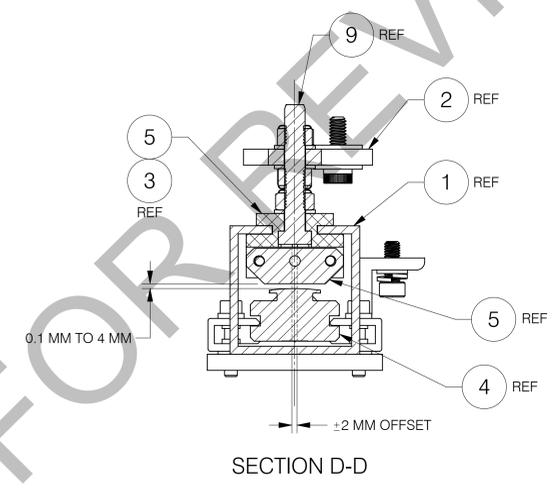
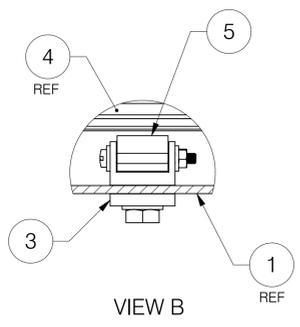
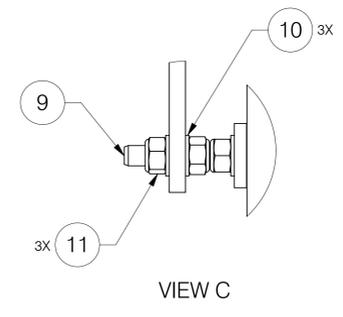
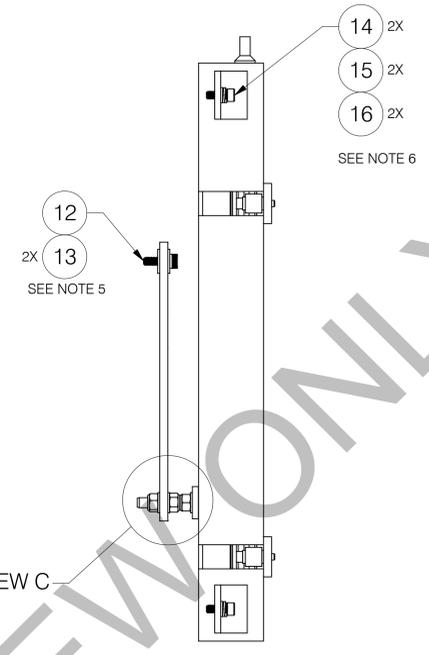
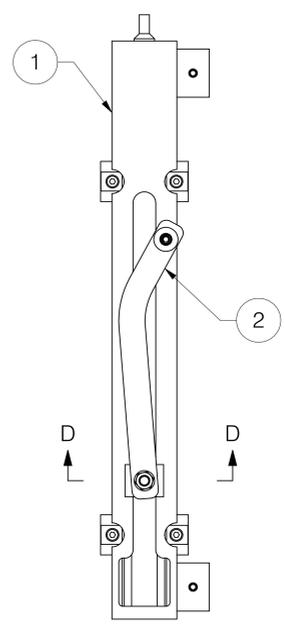
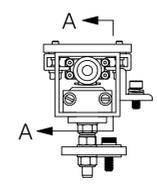
2

1

REVISIONS			
LTN	DESCRIPTION	DATE (YY-MM-DD)	APPROVED
-v05	BASELINE RELEASE WITH 199-0172, 12-10-11 AND 199-0172, 13-03-27 AND 199-0172, 13-04-02	13-03-27	SM/MC

- NOTES:
- THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH ASME Y14.100 WITH THE ADDITION OF APPENDICES B THROUGH E.
  - THE FOLLOWING ARE MANDATORY WHEN INDICATED BY ■
    - REMOVE BURRS
    - BREAK SHARP EDGES .010 MAX
    - FILLETS R .010 MAX
    - 125° ALL OVER, EXCEPT AS NOTED
  - DIMENSIONS APPLY:
    - BEFORE PLATING OR PAINTING
    - AFTER PLATING
    - AFTER PAINTING
  - TOLERANCES ON STOCK MATERIAL SIZES, SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS.
    - ASME Y14.3M-1994 APPLIES
    - FED-STD-428 APPLIES

- SUGGESTED SOURCE OF SUPPLY:  
MCMMASTER-CARR SUPPLY COMPANY  
6100 FULTON INDUSTRIAL BLVD  
ATLANTA, GA 30336-2853  
CAGE CODE: 0KVE6
- INSTALL ITEM 5 INTO ITEM 3, USING HARDWARE SUPPLIED WITH ITEM 5.
- PLACE ITEM 12 AND 13 IN ZIP TOP BAG FOR USE ON NEXT ASSEMBLY.
- PLACE ITEMS 14, 15, AND 16 IN ZIP TOP BAG FOR USE ON NEXT ASSEMBLY.



QTY	RECD	DRAWING OR PART NO.	NOMENCLATURE OR MATERIAL	SPECIFICATION	ITEM NO.
2		93475A250	WASHER, FLAT, 18-8 SS, M6, 12MM O.D., SEE NOTE 3		16
2		92148A180	WASHER, SPLIT-LOCK, 18-8 SS, M6, 11.8MM O.D., SEE NOTE 3		15
2		91292A135	SCREW, CAP, SOCKET HEAD, 18-8 SS, M6 X 16MM LG, SEE NOTE 3		14
2		199-0185	THRUST BEARING		13
1		91327A134	SHOULDER SCREW, SELF LOCKING, 18-8 SS, 250-20UNC-3A X .375 LG SHOULDER, .312 SHOULDER DIA, SEE NOTE 3		12
3		90576A117	LOCKNUT, NYLON INSERT, CRES, 13MM WIDE, M8, SEE NOTE 3		11
3		93475A270	WASHER, FLAT, 18-8 SS, M8, SEE NOTE 3		10
1		91287A309	SCREW, CAP, HEX HEAD, 18-8 SS, M8, 50MM LG, SEE NOTE 3		9
			DELETED		
			DELETED		
			DELETED		
1		199-0170	TRANSDUCER MAGNET		5
1		199-0169	LINEAR TRANSDUCER		4
1		199-0171	MAGNET HOLDER		3
1		199-9033	ARM, LINEAR TRANSDUCER		2
1		199-7030	LINEAR TRANSDUCER MOUNT, LEFT		1

PARTS LIST			
NEXT ASSY	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005 FRACTIONS ± 1/32 ANGLES ± 0° 30'	ORIGINAL DATE 13-02-06	U.S. ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND EDGEWOOD CHEMICAL BIOLOGICAL CENTER ABERDEEN PROVING GROUND, MARYLAND, 21010-5424
		DRAWN BY JJC	LINEAR TRANSDUCER, LEFT, ASSEMBLY
		CHECKED	
		SUBMITTED	SIZE E
		DESIGN APPROVAL	CAGE CODE 81361
		DRAWING APPROVAL	DWG NO. 199-0172
		CONTRACT NO.	SCALE 1/2
			SHEET

DISTRIBUTION STATEMENT D. DISTRIBUTION AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND U.S. DOD CONTRACTORS ONLY; CRITICAL TECHNOLOGY; DETERMINATION MADE 00-00-00. OTHER REQUESTS SHALL BE REFERRED TO: TECHNICAL DIRECTOR, EDGEWOOD CHEMICAL BIOLOGICAL CENTER, ATTN: FDCB-DEA-D, ABERDEEN PROVING GROUND, MD 21010-5424.

DESTRUCTION NOTICE - DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.

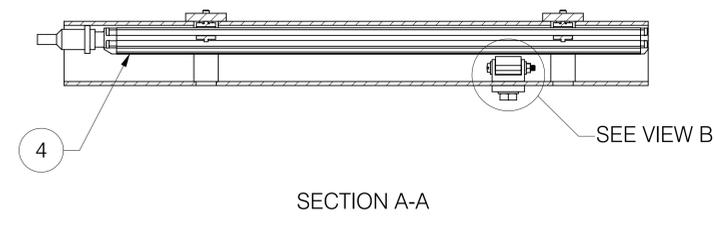
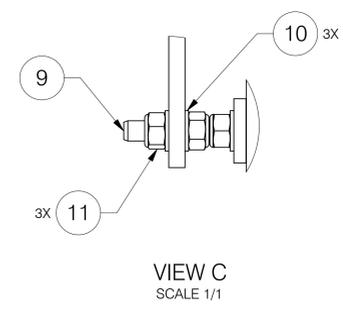
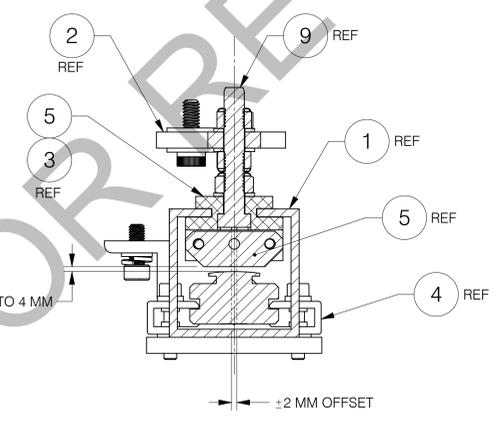
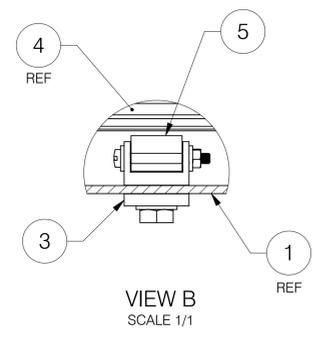
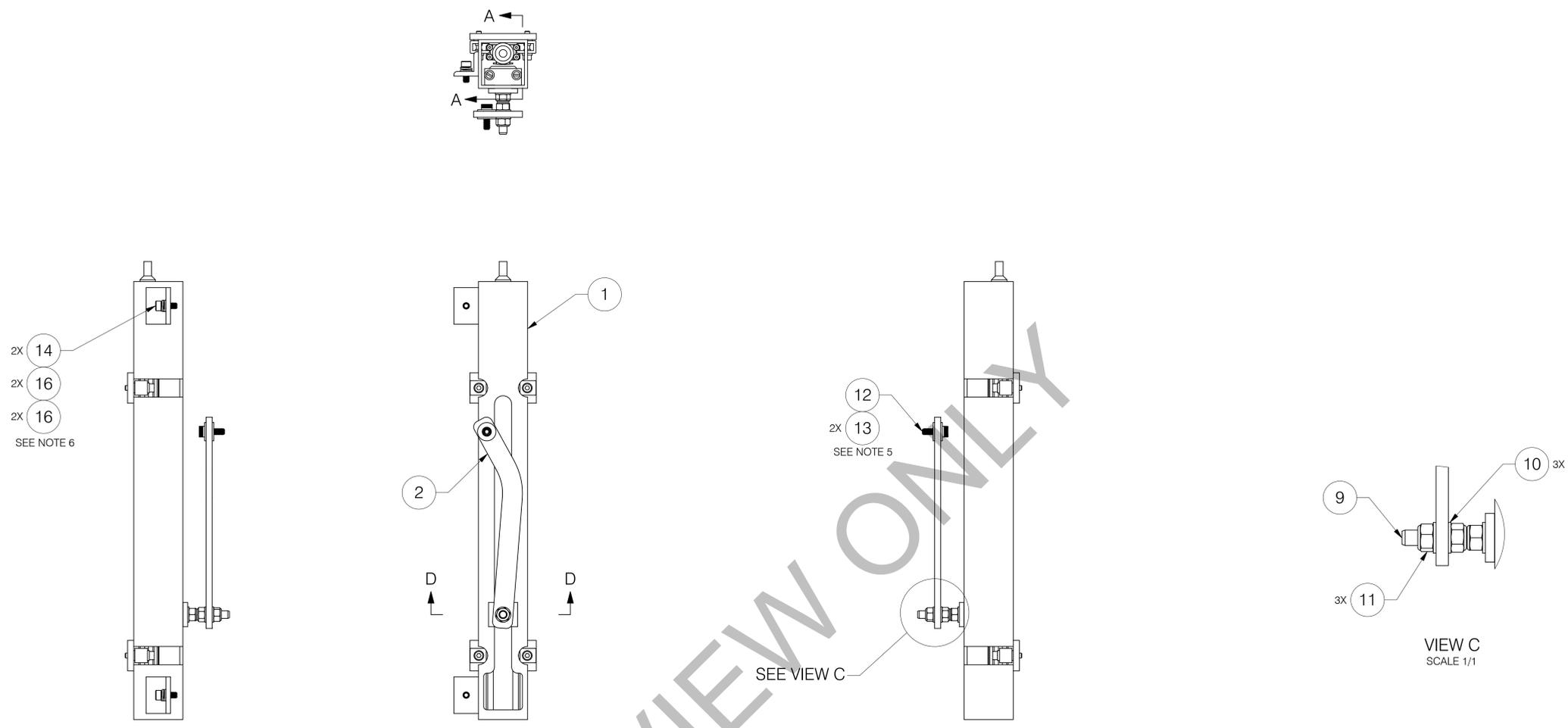
WARNING - THIS DOCUMENT CONTAINS TECHNICAL DATA WHOSE EXPORT IS RESTRICTED BY THE ARMS EXPORT CONTROL ACT (TITLE 22, U.S.C., SEC 2751, et seq.) OR THE EXPORT ADMINISTRATION ACT OF 1979 (TITLE 50, U.S.C., APP. 2401 et seq.), AS AMENDED. VIOLATIONS OF THESE EXPORT LAWS ARE SUBJECT TO SEVERE CRIMINAL PENALTIES. DISSEMINATE IN ACCORDANCE WITH PROVISIONS OF DOD DIRECTIVE 5230.25.

THIS DOCUMENT CONTAINS INFORMATION EXEMPT FROM MANDATORY DISCLOSURE UNDER THE FOIA.  
FOR OFFICIAL USE ONLY

- NOTES:
- THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH ASME Y14.100 WITH THE ADDITION OF APPENDICES B THROUGH E.
  - THE FOLLOWING ARE MANDATORY WHEN INDICATED BY ■
    - REMOVE BURRS
    - BREAK SHARP EDGES .010 MAX
    - FILLETS R .010 MAX
    - 125° ALL OVER, EXCEPT AS NOTED
  - DIMENSIONS APPLY:
    - BEFORE PLATING OR PAINTING
    - AFTER PLATING
    - AFTER PAINTING
  - TOLERANCES ON STOCK MATERIAL SIZES, SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS.
    - ASME Y14.3M-1994 APPLIES
    - FED-STD-428 APPLIES

- SUGGESTED SOURCE OF SUPPLY:  
MCMMASTER-CARR SUPPLY COMPANY  
6100 FULTON INDUSTRIAL BLVD  
ATLANTA, GA 30336-2853  
CAGE CODE: 0KVE6
- INSTALL ITEM 5 INTO ITEM 3, USING HARDWARE SUPPLIED WITH ITEM 5.
- PLACE ITEM 12 AND 13 IN ZIP TOP BAG FOR USE ON NEXT ASSEMBLY.
- PLACE ITEMS 14, 15, AND 16 IN ZIP TOP BAG FOR USE ON NEXT ASSEMBLY.

REVISIONS			
LT#	DESCRIPTION	DATE (YR-MO-DA)	APPROVED
-v04	BASELINE RELEASE WITH 199-0173, 12-10-11 AND 199-0173, 13-03-27, AND 199-0173, 13-04-04	13-04-08	SM/MC



QTY	DRAWING OR PART NO.	NOMENCLATURE OR MATERIAL	SPECIFICATION	ITEM NO.
2	93475A250	WASHER, FLAT, 18-8 SS, M6, 12MM O.D., SEE NOTE 3		16
2	92148A180	WASHER, SPLIT-LOCK, 18-8 SS, M6, 11.8MM O.D., SEE NOTE 3		15
2	91292A135	SCREW, CAP, SOCKET HEAD, 18-8 SS, M6 X 16MM LG, SEE NOTE 3		14
2	199-0185	THRUST BEARING		13
1	91327A134	SHOULDER SCREW, SELF LOCKING, 18-8 SS, .250-20UNC-3A X .375 LG SHOULDER, .312 SHOULDER DIA, SEE NOTE 3		12
3	90576A117	LOCKNUT, NYLON INSERT, CRES, 13MM WIDE, M8, SEE NOTE 3		11
3	93475A270	WASHER, FLAT, 18-8 SS, M8, SEE NOTE 3		10
1	91287A309	SCREW, CAP, HEX HEAD, 18-8 SS, M8, 50MM LG, SEE NOTE 3		9
		DELETED		
		DELETED		
		DELETED		
1	199-0170	TRANSUCER MAGNET		5
1	199-0169	LINEAR TRANSUCER		4
1	199-0171	MAGNET HOLDER		3
1	199-9033	ARM, LINEAR TRANSUCER		2
1	199-7029	LINEAR TRANSUCER MOUNT, RIGHT		1

NEXT ASSY		UNLESS OTHERWISE SPECIFIED		ORIGINAL DATE		U.S. ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND	
		DIMENSIONS ARE IN INCHES		13-02-06		EDGEWOOD CHEMICAL BIOLOGICAL CENTER	
		TOLERANCES ON:		DRAWN BY: JUC		ABERDEEN PROVING GROUND, MARYLAND, 21010-5424	
		2 PLACE DECIMALS = .01		CHECKED:		LINEAR TRANSUCER, RIGHT, ASSEMBLY	
		3 PLACE DECIMALS = .005		SUBMITTED:			
		FRACTIONS = 1/32		DESIGN APPROVAL:		SIZE E CAGE CODE 81361 DWG NO. 199-0173	
		ANGLES = 0° 30'		DRAWING APPROVAL:		SCALE 1/2 SHEET	
EQUIPMENT CODE NO.		MATERIAL		CONTRACT NO.			

DISTRIBUTION STATEMENT D. DISTRIBUTION AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND U.S. DOD CONTRACTORS ONLY; CRITICAL TECHNOLOGY. DETERMINATION MADE 00-00-00. OTHER REQUESTS SHALL BE REFERRED TO: TECHNICAL DIRECTOR, EDGEWOOD CHEMICAL BIOLOGICAL CENTER, ATTN: RDCB-DEA-D, ABERDEEN PROVING GROUND, MD 21010-5424.

DESTRUCTION NOTICE - DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.

WARNING - THIS DOCUMENT CONTAINS TECHNICAL DATA WHOSE EXPORT IS RESTRICTED BY THE ARMS EXPORT CONTROL ACT (TITLE 22, U.S.C., SEC 2751, et seq.) OR THE EXPORT ADMINISTRATION ACT OF 1979 (TITLE 50, U.S.C., APP. 2401 et seq.), AS AMENDED. VIOLATIONS OF THESE EXPORT LAWS ARE SUBJECT TO SEVERE CRIMINAL PENALTIES. DISSEMINATE IN ACCORDANCE WITH PROVISIONS OF DOD DIRECTIVE 5230.25.

THIS DOCUMENT CONTAINS INFORMATION EXEMPT FROM MANDATORY DISCLOSURE UNDER THE FOIA.  
FOR OFFICIAL USE ONLY

4

3

2

1

NOTES:

1. THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH ASME Y14.100 WITH THE ADDITION OF APPENDICES B THROUGH E.

2. THE FOLLOWING ARE MANDATORY WHEN INDICATED BY ■

REMOVE BURRS     BREAK SHARP EDGES .010 MAX

FILLETS R .010 MAX

125 ALL OVER, EXCEPT AS NOTED

DIMENSIONS APPLY:

BEFORE PLATING OR PAINTING

AFTER PLATING

AFTER PAINTING

TOLERANCES ON STOCK MATERIAL SIZES, SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS.

■ ASME Y14.5M-1994 APPLIES

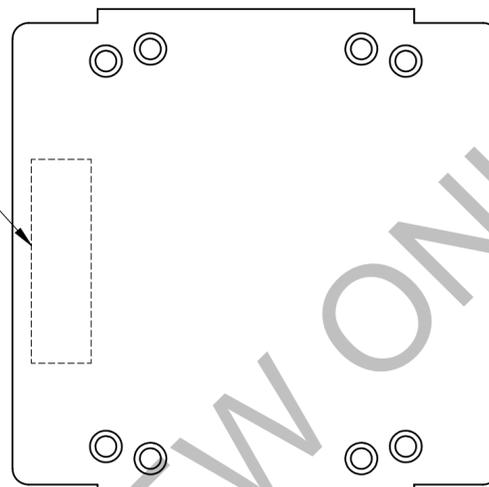
FED-STD-H28 APPLIES

3. DELETED.

4. PART MARKING: RUBBER STAMP, SILKSCREEN OR STEEL STAMP. PERMANENTLY MARK CAGE CODE AND PART NO (EXMAPLE 81361-199-0176). CHARACTERS TO BE 0.121 HIGH AND BLACK IN COLOR PER MIL-STD-130. LOCATE APPROXIMATELY AS SHOWN.

5. SUGGESTED SOURCE OF SUPPLY:  
MCMASTER-CARR SUPPLY COMPANY  
600 COUNTY LINE RD  
ELMHURST, IL 60126  
CAGE CODE: 39428

SEE NOTE 4



1

2

8X



FOR REVIEW ONLY

FOR REVIEW ONLY

DISTRIBUTION STATEMENT D. DISTRIBUTION AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND U.S. DOD CONTRACTORS ONLY; CRITICAL TECHNOLOGY; DETERMINATION MADE 00-00-00. OTHER REQUESTS SHALL BE REFERRED TO: TECHNICAL DIRECTOR, EDGEWOOD CHEMICAL BIOLOGICAL CENTER, ATTN: RDCB-DEA-D, ABERDEEN PROVING GROUND, MD 21010-5424.

DESTRUCTION NOTICE - DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.

WARNING - THIS DOCUMENT CONTAINS TECHNICAL DATA WHOSE EXPORT IS RESTRICTED BY THE ARMS EXPORT CONTROL ACT (TITLE 22, U.S.C., SEC 2751, et seq.) OR THE EXPORT ADMINISTRATION ACT OF 1979 (TITLE 50, U.S.C., APP. 2401 et seq.), AS AMENDED. VIOLATIONS OF THESE EXPORT LAWS ARE SUBJECT TO SEVERE CRIMINAL PENALTIES. DISSEMINATE IN ACCORDANCE WITH PROVISIONS OF DOD DIRECTIVE 5230.25.

THIS DOCUMENT CONTAINS INFORMATION EXEMPT FROM MANDATORY DISCLOSURE UNDER THE FOIA. FOR OFFICIAL USE ONLY

8	95105A143	RIVNUT, 1/4-20, SEE NOTE 5		2
1	199-0110	RFID MOUNTING BRACKET		1
QTY REQD	DRAWING OR PART NO.	NOMENCLATURE OR MATERIAL	SPECIFICATION	ITEM NO.

PARTS LIST				
NEXT ASSY	UNLESS OTHERWISE SPECIFIED	ORIGINAL DATE (YR-MO-DA)	U.S. ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND EDGEWOOD CHEMICAL BIOLOGICAL CENTER ABERDEEN PROVING GROUND, MARYLAND, 21010-5424	
199-0108	DIMENSIONS ARE IN INCHES TOLERANCES ON: 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005 FRACTIONS ± 1/32 ANGLES ± 0° 30'	13-01-22	RFID MOUNTING BRACKET ASSEMBLY	
	MATERIAL	DRAWN BY JJC		
		CHECKER		
		SUBMITTED		
EQUIPMENT CODE NO.		DESIGN APPROVAL	SIZE	CAGE CODE
		DRAWING APPROVAL	C	81361
		CONTRACT NO.	DWG NO.	199-0176
			SCALE 1/2	SHEET

4

3

2

1

4

3

2

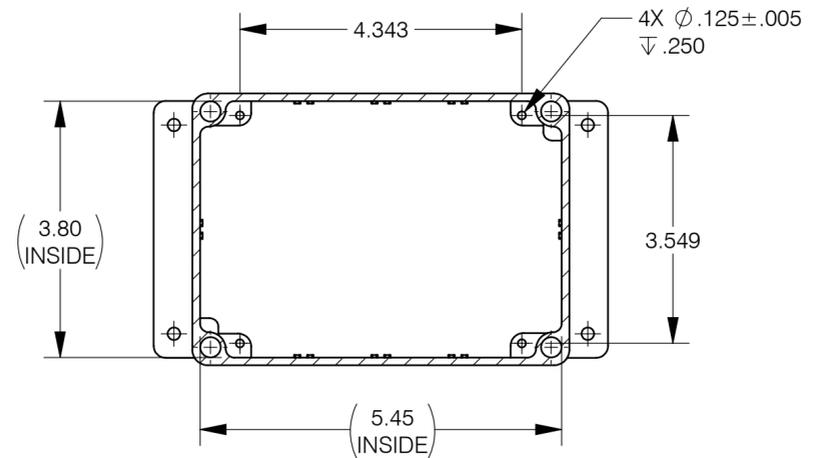
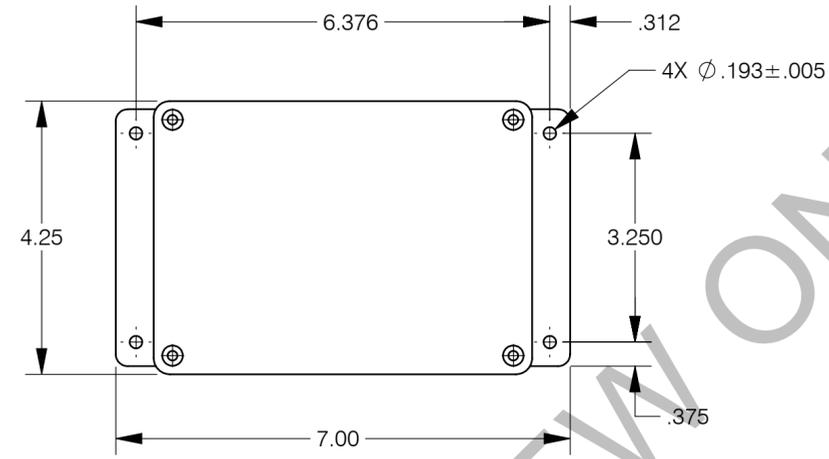
1

NOTES:

- 1. THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH ASME Y14.100 WITH THE ADDITION OF APPENDICES B THROUGH E.
- 2. THE FOLLOWING ARE MANDATORY WHEN INDICATED BY ■
  - REMOVE BURRS     BREAK SHARP EDGES .010 MAX
  - FILLETS R .010 MAX
  - <sup>125</sup> ALL OVER, EXCEPT AS NOTED
- DIMENSIONS APPLY:
  - BEFORE PLATING OR PAINTING
  - AFTER PLATING
  - AFTER PAINTING
- TOLERANCES ON STOCK MATERIAL SIZES, SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS.
- ASME Y14.5M-1994 APPLIES
- FED-STD-H28 APPLIES
- 3. IDENTIFICATION OF THE SUGGESTED SOURCE(S) OF SUPPLY HEREON IS NOT TO BE CONSTRUED AS A GUARANTEE OF PRESENT OR CONTINUED AVAILABILITY AS A SOURCE OF SUPPLY FOR THE ITEM.
- 4. MATERIAL:  
NEMA 4X DIE CAST ALUMINUM ENCLOSURE,  
ALUMINUM ALLOY #ADC-12
- 5. FINISH: NATURAL
- 6. WHEN PROCURED FROM CAGE CODE 71218,  
4X M4 X 20MM (.787 IN) LONG SCREWS PROVIDED  
FOR MOUNTING COVER TO BODY.

SUGGESTED SOURCES OF SUPPLY			
CONTROL NUMBER	SUPPLIER DATA		
	CAGE CODE	PART NUMBER	NAME AND ADDRESS
199-0178	71218	AN-2805	BUD INDUSTRIES, INC. 4605 E 355TH ST WILLOUGHBY, OH 44094

REVISIONS			
LTR	DESCRIPTION	DATE (YR-MO-DA)	APPROVED
-v03	BASELINE RELEASE	13-02-13	SM/MC



VENDOR ITEM CONTROL DRAWING

DISTRIBUTION STATEMENT D. DISTRIBUTION AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND U.S. DOD CONTRACTORS ONLY; CRITICAL TECHNOLOGY; DETERMINATION MADE 00-00-00. OTHER REQUESTS SHALL BE REFERRED TO: TECHNICAL DIRECTOR, EDGEWOOD CHEMICAL BIOLOGICAL CENTER, ATTN: RDCB-DEA-D, ABERDEEN PROVING GROUND, MD 21010-5424.

DESTRUCTION NOTICE - DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.

WARNING - THIS DOCUMENT CONTAINS TECHNICAL DATA WHOSE EXPORT IS RESTRICTED BY THE ARMS EXPORT CONTROL ACT (TITLE 22, U.S.C., SEC 2751, et seq.) OR THE EXPORT ADMINISTRATION ACT OF 1979 (TITLE 50, U.S.C., APP. 2401 et seq.), AS AMENDED. VIOLATIONS OF THESE EXPORT LAWS ARE SUBJECT TO SEVERE CRIMINAL PENALTIES. DISSEMINATE IN ACCORDANCE WITH PROVISIONS OF DOD DIRECTIVE 5230.25.

THIS DOCUMENT CONTAINS INFORMATION EXEMPT FROM MANDATORY DISCLOSURE UNDER THE FOIA.  
FOR OFFICIAL USE ONLY

QTY REQD	DRAWING OR PART NO.	NOMENCLATURE OR MATERIAL	SPECIFICATION	ITEM NO.
		PARTS LIST		
	NEXT ASSY 199-0128	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: 2 PLACE DECIMALS ± 3 PLACE DECIMALS ± .015 FRACTIONS ± 1/32 ANGLES ± 0° 30'	ORIGINAL DATE (YR-MO-DA) 13-01-22 DRAWN BY JJC CHECKER SUBMITTED DESIGN APPROVAL DRAWING APPROVAL CONTRACT NO.	U.S. ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND EDGEWOOD CHEMICAL BIOLOGICAL CENTER ABERDEEN PROVING GROUND, MARYLAND, 21010-5424  <b>BOX, TRANSMITTER</b> SIZE C CAGE CODE 81361 DWG NO. 199-0178
	EQUIPMENT CODE NO.			SCALE 1/2 SHEET

4

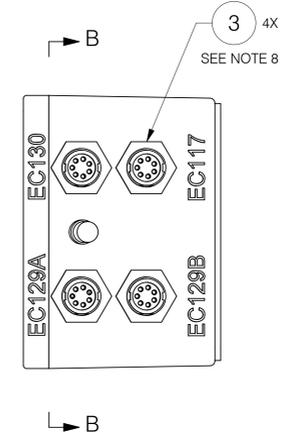
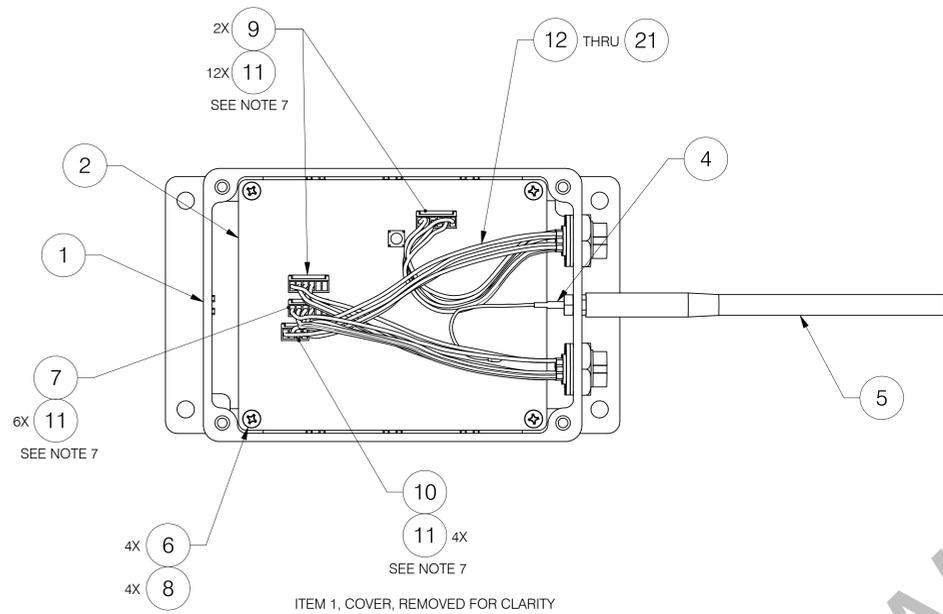
3

2

1

- NOTES:
- THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH ASME Y14.100 WITH THE ADDITION OF APPENDICES B THROUGH E.
  - THE FOLLOWING ARE MANDATORY WHEN INDICATED BY ■
    - REMOVE BURRS
    - BREAK SHARP EDGES .010 MAX
    - FILLETS R .010 MAX
    - 125° ALL OVER, EXCEPT AS NOTED
  - DIMENSIONS APPLY:
    - BEFORE PLATING OR PAINTING
    - AFTER PLATING
    - AFTER PAINTING
  - TOLERANCES ON STOCK MATERIAL SIZES, SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS.
    - ASME Y14.3M-1994 APPLIES
    - FED-STD-428 APPLIES

- DELETED
- DELETED
- DELETED
- SUGGESTED SOURCE OF SUPPLY:  
MCMMASTER CARR SUPPLY COMPANY  
6100 FULTON INDUSTRIAL BLVD  
ATLANTA, GA 30336  
CAGE CODE: 0KVE6
- INSTALL ITEM 11 INTO ITEMS 9 AND 10 IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.
- INSTALL CRIMP CONTACTS (SUPPLIED WITH ITEM 3) IAW MANUFACTURERS INSTRUCTIONS, CONTACT INSTALLATION IS REQUIRED IN UNUSED SPACES.
- STRIP ALL WIRES .150 IN ONE END AND STRIP OTHER END .210.



WIRE TABLE

FROM CONNECTION	CONN. TYPE	TO PWB CONNECTOR	CONN. TYPE	WIRE
EC 117, PIN 1	CRIMP	P2 HEADER, PIN 2	ITEM 11	ITEM 12, BLACK
EC 117, PIN 2	CRIMP	P2 HEADER, PIN 4	ITEM 11	ITEM 15, GRAY
EC 117, PIN 3	CRIMP	P2 HEADER, PIN 3	ITEM 11	ITEM 16, WHITE/GRAY
EC 117, PIN 4	CRIMP	P2 HEADER, PIN 5	ITEM 11	ITEM 12, BLACK
EC 117, PIN 5	CRIMP	P2 HEADER, PIN 6	ITEM 11	ITEM 17, LT BLUE
EC 117, PIN 6	CRIMP	P2 HEADER, PIN 1	ITEM 11	ITEM 13, ORANGE
EC 117, PIN 7		NO CONNECTION		
EC 129A, PIN 1	CRIMP	P4 HEADER, PIN 5	ITEM 11	ITEM 12, BLACK
EC 129A, PIN 2	CRIMP	P4 HEADER, PIN 4	ITEM 11	ITEM 18, PURPLE
EC 129A, PIN 3	CRIMP	P4 HEADER, PIN 3	ITEM 11	ITEM 19, WHITE/PURPLE
EC 129A, PIN 4		NO CONNECTION		
EC 129A, PIN 5	CRIMP	P4 HEADER, PIN 6	ITEM 11	ITEM 17, LT BLUE
EC 129A, PIN 6		NO CONNECTION		
EC 129A, PIN 7		NO CONNECTION		
EC 129B, PIN 1	CRIMP	P3 HEADER, PIN 5	ITEM 11	ITEM 12, BLACK
EC 129B, PIN 2	CRIMP	P3 HEADER, PIN 4	ITEM 11	ITEM 20, YELLOW
EC 129B, PIN 3	CRIMP	P3 HEADER, PIN 3	ITEM 11	ITEM 21, WHITE/YELLOW
EC 129B, PIN 4		NO CONNECTION		
EC 129B, PIN 5	CRIMP	P3 HEADER, PIN 6	ITEM 11	ITEM 17, LT BLUE
EC 129B, PIN 6		NO CONNECTION		
EC 129B, PIN 7		NO CONNECTION		
EC 130, PIN 1	CRIMP	P5 HEADER, PIN 4	ITEM 11	ITEM 12, BLACK
EC 130, PIN 2		NO CONNECTION		
EC 130, PIN 3	CRIMP	P5 HEADER, PIN 2	ITEM 11	ITEM 14, WHITE/BROWN
EC 130, PIN 4	CRIMP	P5 HEADER, PIN 3	ITEM 11	ITEM 12, BLACK
EC 130, PIN 5		NO CONNECTION		
EC 130, PIN 6	CRIMP	P5 HEADER, PIN 1	ITEM 11	ITEM 13, ORANGE
EC 130, PIN 7		NO CONNECTION		
P3, SENSOR 1, PIN 1		NO CONNECTION		
P3, SENSOR 1, PIN 2		NO CONNECTION		
P4, SENSOR 2, PIN 1		NO CONNECTION		
P4, SENSOR 2, PIN 2		NO CONNECTION		

A/R	QTY	DESCRIPTION	SPECIFICATION	ITEM NO.
A/R		M16878/1BFB94 WIRE, PVC INSULATED, 105°C, 600 VOLT, 22 AWG, COLOR WHITE/YELLOW	MIL-DTL-16878/1	21
A/R		M16878/1BFB4 WIRE, PVC INSULATED, 105°C, 600 VOLT, 22 AWG, COLOR YELLOW	MIL-DTL-16878/1	20
A/R		M16878/1BFB97 WIRE, PVC INSULATED, 105°C, 600 VOLT, 22 AWG, COLOR WHITE/VIOLET	MIL-DTL-16878/1	19
A/R		M16878/1BFB7 WIRE, PVC INSULATED, 105°C, 600 VOLT, 22 AWG, COLOR VIOLET (PURPLE)	MIL-DTL-16878/1	18
A/R		M16878/1BFB6 WIRE, PVC INSULATED, 105°C, 600 VOLT, 22 AWG, COLOR LT BLUE	MIL-DTL-16878/1	17
A/R		M16878/1BFB98 WIRE, PVC INSULATED, 105°C, 600 VOLT, 22 AWG, COLOR WHITE/GRAY	MIL-DTL-16878/1	16
A/R		M16878/1BFB8 WIRE, PVC INSULATED, 105°C, 600 VOLT, 22 AWG, COLOR GRAY (SLATE)	MIL-DTL-16878/1	15
A/R		M16878/1BFB91 WIRE, PVC INSULATED, 105°C, 600 VOLT, 22 AWG, COLOR WHITE/BROWN	MIL-DTL-16878/1	14
A/R		M16878/1BFB3 WIRE, PVC INSULATED, 105°C, 600 VOLT, 22 AWG, COLOR ORANGE	MIL-DTL-16878/1	13
A/R		M16878/1BFB0 WIRE, PVC INSULATED, 105°C, 600 VOLT, 22 AWG, COLOR BLACK	MIL-DTL-16878/1	12
	22	199-0723 HEADER CONTACT		11
	1	199-0721-2 HEADER, .100 SPACING, 4 POSITION		10
	3	199-0721-1 HEADER, .100 SPACING, 6 POSITION		9
	4	91106A123 WASHER, INTERNAL TOOTH, STEEL, BLACK, M3.5 X 7MM OD X 0.5 MM THK		8
		DELETED		
	4	96817A932 SCREW, PAN HEAD, TORX, SELF TAPPING, 410 SS, M3.5 X 6MM LG, SEE NOTE 6		6
	1	199-0132 TRANSMITTER ANTENNA, 315 MHZ		5
	1	199-0130 ANTENNA CABLE ASSEMBLY		4
	4	199-0126 CONNECTOR, CES BOX		3
	1	199-0873 TRANSMITTER PCB, 315 MHz		2
	1	199-0128 TRANSMITTER BOX, MODIFIED		1

NEXT ASSY 199-0108	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005 FRACTIONS ± 1/32 ANGLES ± 0° 30'	ORIGINAL DATE 12-06-22	U.S. ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND EDGEWOOD CHEMICAL BIOLOGICAL CENTER ABERDEEN PROVING GROUND, MARYLAND, 21010-5424
EQUIPMENT CODE NO.	MATERIAL	DESIGNED BY HSW	CAUSE AND EFFECT SYSTEM TRANSMITTER BOX ASSEMBLY, 315 MHZ
		DESIGNED APPROVAL	
		DRAWING APPROVAL	SIZE E
		CONTRACT NO.	CAGE CODE 81361
			DWG NO. 199-0179
			SCALE 1/1
			SHEET

DISTRIBUTION STATEMENT D. DISTRIBUTION AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND U.S. DOD CONTRACTORS ONLY; CRITICAL TECHNOLOGY; DETERMINATION MADE 09-00-00. OTHER REQUESTS SHALL BE REFERRED TO: TECHNICAL DIRECTOR, EDGEWOOD CHEMICAL BIOLOGICAL CENTER, ATTN: RDCB-DEA-D, ABERDEEN PROVING GROUND, MD 21010-5424.

DESTRUCTION NOTICE - DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.

WARNING - THIS DOCUMENT CONTAINS TECHNICAL DATA WHOSE EXPORT IS RESTRICTED BY THE ARMS EXPORT CONTROL ACT (TITLE 22, U.S.C., SEC 2751, et seq.) OR THE EXPORT ADMINISTRATION ACT OF 1979 (TITLE 50, U.S.C., APP. 2401 et seq.), AS AMENDED. VIOLATIONS OF THESE EXPORT LAWS ARE SUBJECT TO SEVERE CRIMINAL PENALTIES. DISSEMINATE IN ACCORDANCE WITH PROVISIONS OF DOD DIRECTIVE 5230.25.

THIS DOCUMENT CONTAINS INFORMATION EXEMPT FROM MANDATORY DISCLOSURE UNDER THE FOIA. FOR OFFICIAL USE ONLY.

4

3

2

1

NOTES:

1. THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH ASME Y14.100 WITH THE ADDITION OF APPENDICES B THROUGH E.

2. THE FOLLOWING ARE MANDATORY WHEN INDICATED BY ■

■ REMOVE BURRS ■ BREAK SHARP EDGES .010 MAX

□ FILLETS R .010 MAX

□ 125° ALL OVER, EXCEPT AS NOTED

DIMENSIONS APPLY:

■ BEFORE PLATING OR PAINTING

□ AFTER PLATING

□ AFTER PAINTING

■ TOLERANCES ON STOCK MATERIAL SIZES, SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS.

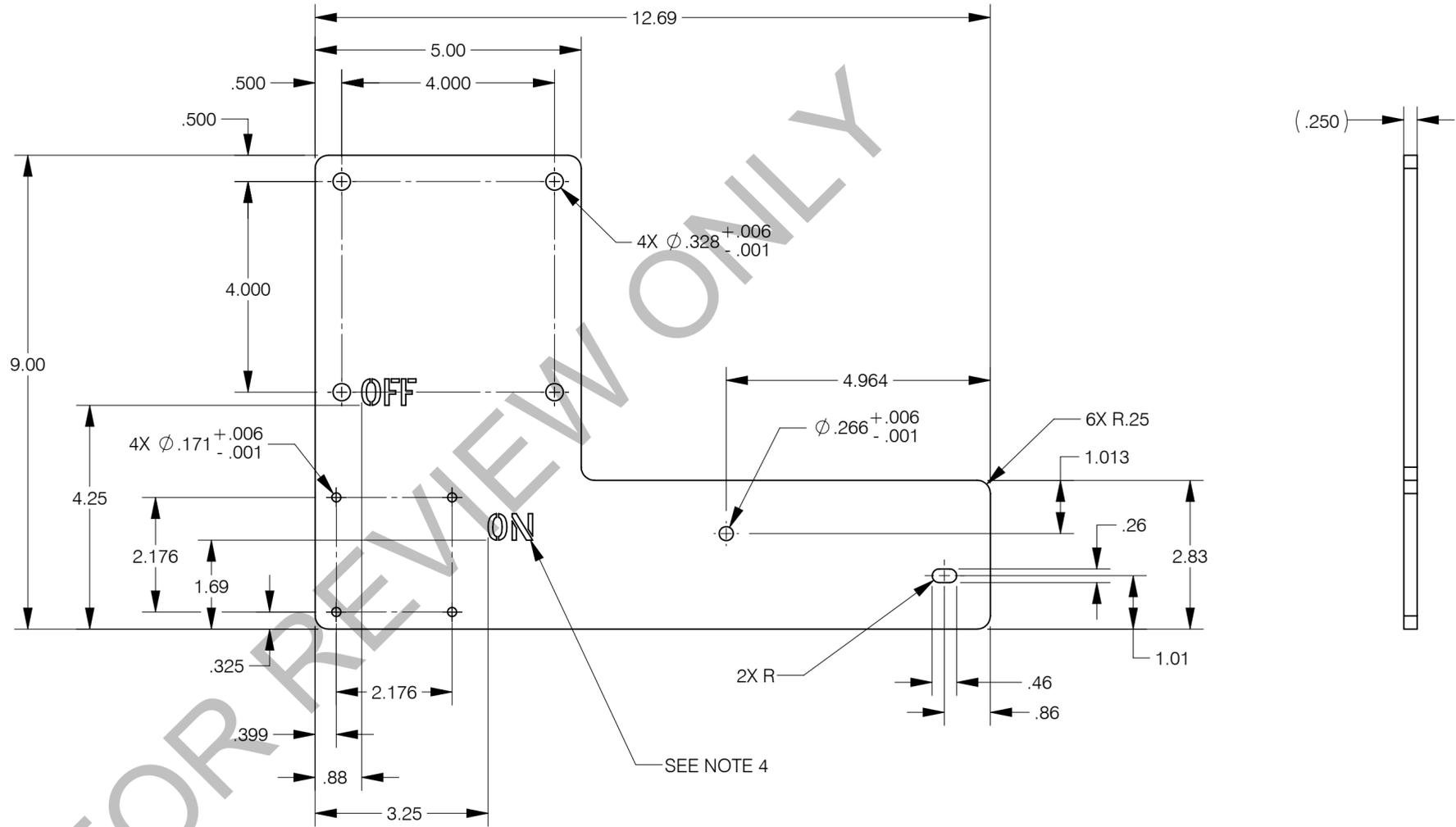
■ ASME Y14.5M-1994 APPLIES

□ FED-STD-H28 APPLIES

3. FINISH 7.1.1 PLUS 20.4 OF MIL,-STD-171, COLOR TAN 33446 PER FED-STD-595.

4. MARKING TO BE .50 INCH HIGH, USING MARKING INK, TYPE I OR III OR IV, CLASS OPTIONAL PER A-A-208, COLOR BLACK 37038 PER FED-STD-595.

REVISIONS			
LTR	DESCRIPTION	DATE (YR-MO-DA)	APPROVED
-v07	BASELINE RELEASE, WITH 199-0182, 12-09-18	13-02-21	SM/MC



DISTRIBUTION STATEMENT D. DISTRIBUTION AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND U.S. DOD CONTRACTORS ONLY; CRITICAL TECHNOLOGY; DETERMINATION MADE 00-00-00. OTHER REQUESTS SHALL BE REFERRED TO: TECHNICAL DIRECTOR, EDGEWOOD CHEMICAL BIOLOGICAL CENTER, ATTN: RDCB-DEA-D, ABERDEEN PROVING GROUND, MD 21010-5424.

DESTRUCTION NOTICE - DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.

WARNING - THIS DOCUMENT CONTAINS TECHNICAL DATA WHOSE EXPORT IS RESTRICTED BY THE ARMS EXPORT CONTROL ACT (TITLE 22, U.S.C., SEC 2751, et seq.) OR THE EXPORT ADMINISTRATION ACT OF 1979 (TITLE 50, U.S.C., APP. 2401 et seq.), AS AMENDED. VIOLATIONS OF THESE EXPORT LAWS ARE SUBJECT TO SEVERE CRIMINAL PENALTIES. DISSEMINATE IN ACCORDANCE WITH PROVISIONS OF DOD DIRECTIVE 5230.25.

THIS DOCUMENT CONTAINS INFORMATION EXEMPT FROM MANDATORY DISCLOSURE UNDER THE FOIA. FOR OFFICIAL USE ONLY

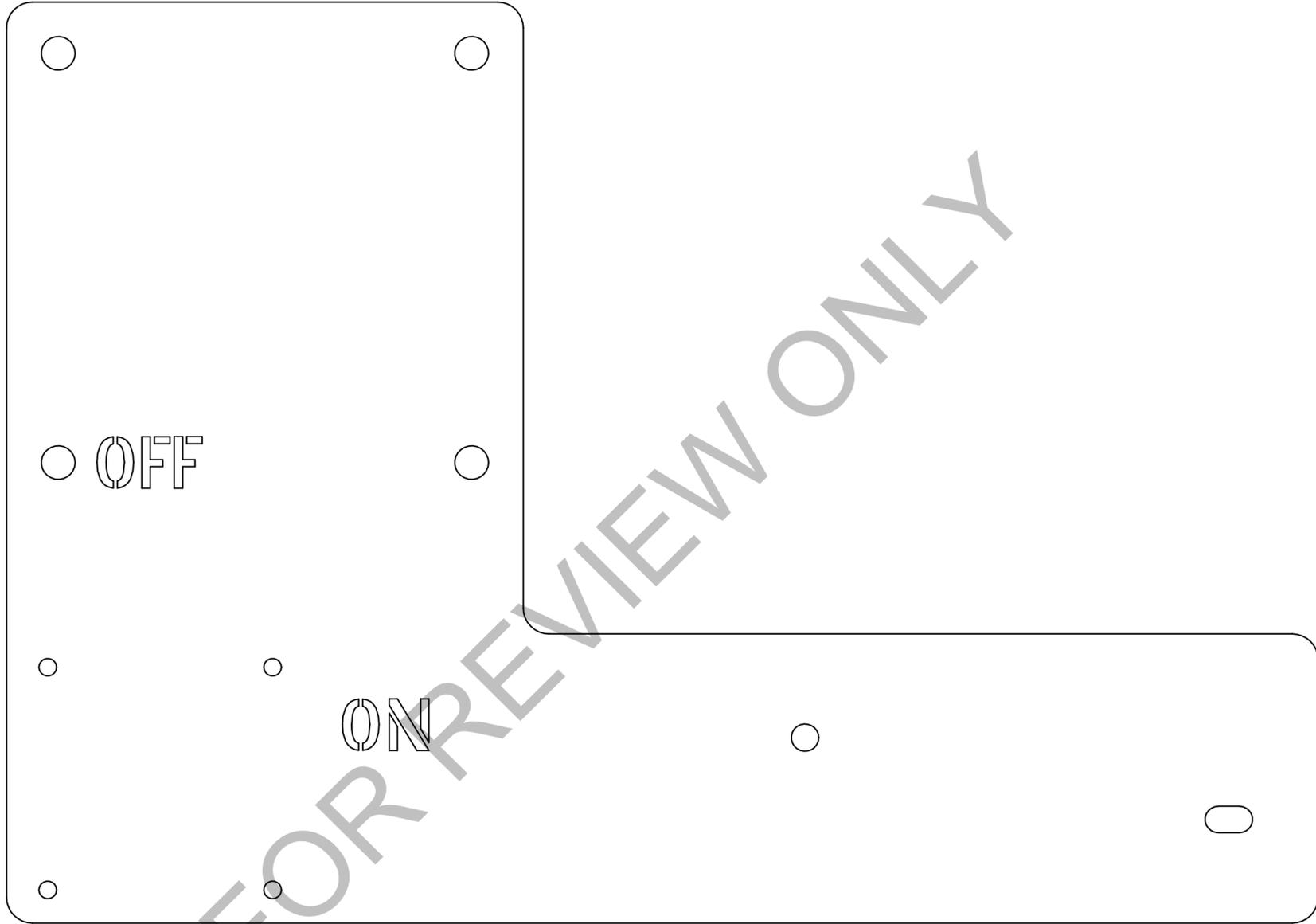
QTY REQD	DRAWING OR PART NO.	NOMENCLATURE OR MATERIAL	SPECIFICATION	ITEM NO.
PARTS LIST				
NEXT ASSY	UNLESS OTHERWISE SPECIFIED	ORIGINAL DATE (YR-MO-DA)	U.S. ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND EDGEWOOD CHEMICAL BIOLOGICAL CENTER ABERDEEN PROVING GROUND, MARYLAND, 21010-5424	
199-0823	DIMENSIONS ARE IN INCHES TOLERANCES ON: 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005 FRACTIONS ± 1/32 ANGLES ± 0° 30'	12-08-13	<b>FUSE AND SWITCH BOX BRACKET</b>	
	MATERIAL	DRAWN BY JRO		
	ALUMINUM ALLOY SHEET, 6061-T6, .250 THK PER ASTM-B209	CHECKER		
		DESIGN APPROVAL		
EQUIPMENT CODE NO.		DRAWING APPROVAL	SIZE C	CAGE CODE 81361
		CONTRACT NO.	DWG NO. 199-0182	
			SCALE 1/2	SHEET

4

3

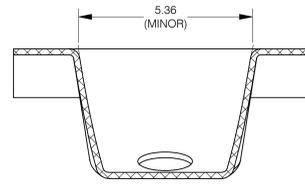
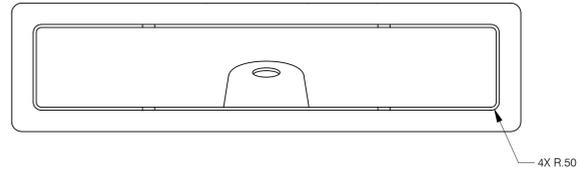
2

1

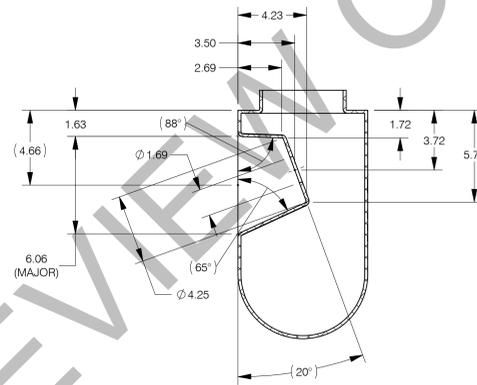
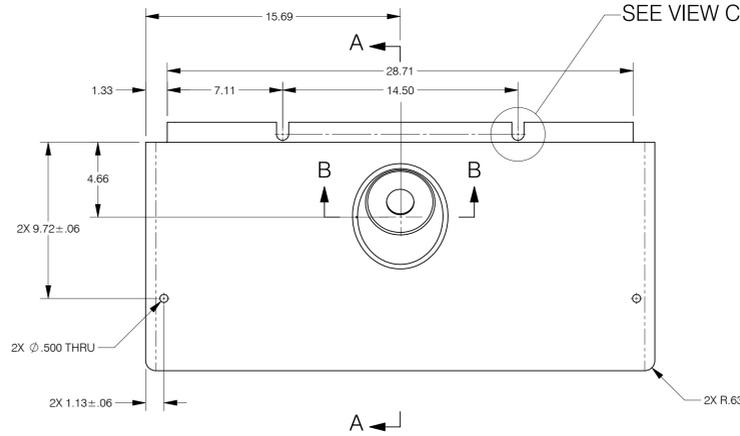
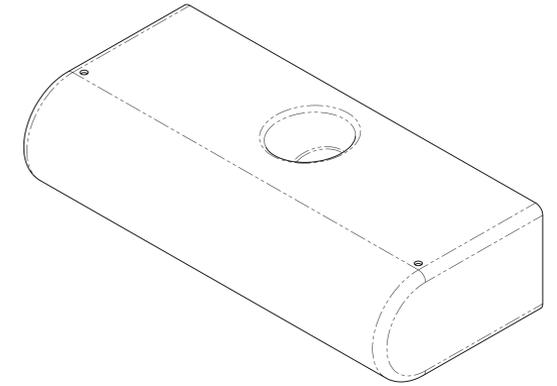


- NOTES:
- THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH ASME Y14.100 WITH THE ADDITION OF APPENDICES B THROUGH E.
  - THE FOLLOWING ARE MANDATORY WHEN INDICATED BY ■
    - REMOVE BURRS
    - BREAK SHARP EDGES .010 MAX
    - FILLETS R .010 MAX
    - 125° ALL OVER, EXCEPT AS NOTED
  - DIMENSIONS APPLY:
    - BEFORE PLATING OR PAINTING
    - AFTER PLATING
    - AFTER PAINTING
  - TOLERANCES ON STOCK MATERIAL SIZES, SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS.
    - ASME Y14.3M-1994 APPLIES
    - FED-STD-428 APPLIES
  - FINISH 330 SHOT PEEN.
  - .187 MIN WALL THICKNESS
  - UNSPECIFIED RADII IS .31
  - MARK USING MARKING INK, TYPE I OR III OR IV, CLASS OPTIONAL PER A-A-208, COLOR BLACK 37038 PER FED-STD-595.

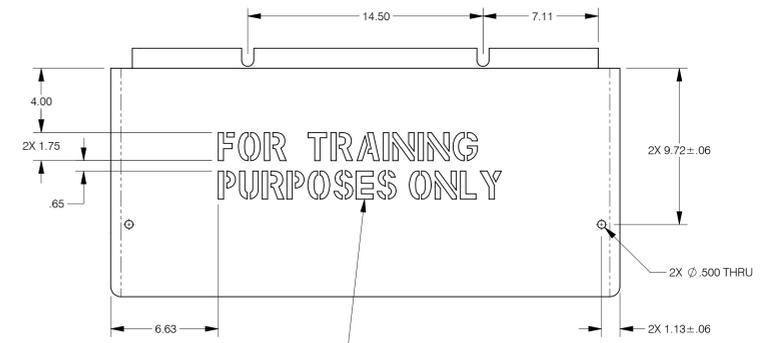
REVISIONS			
LTR	DESCRIPTION	DATE (YR-MO-DAY)	APPROVED
-V04	BASELINE RELEASE WITH 199-0183, 13-01-14	13-02-21	SM/MC



SECTION B-B  
SCALE 1/2

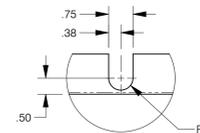
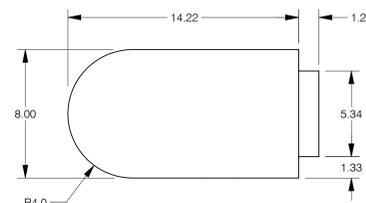
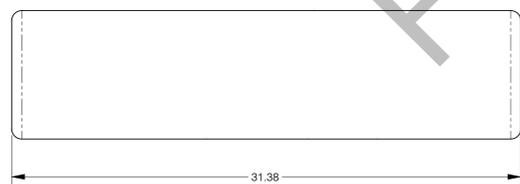


SECTION A-A



FOR TRAINING PURPOSES ONLY

SEE NOTE 6



VIEW C  
SCALE 1/2  
4 PLACES

DISTRIBUTION STATEMENT D. DISTRIBUTION AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND U.S. DOD CONTRACTORS ONLY. CRITICAL TECHNOLOGY; DETERMINATION MADE 00-00-00. OTHER REQUESTS SHALL BE REFERRED TO: TECHNICAL DIRECTOR, EDGEWOOD CHEMICAL BIOLOGICAL CENTER, ATTN: RDCB-DEA-D, ABERDEEN PROVING GROUND, MD 21010-5424.

DESTRUCTION NOTICE - DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.

WARNING - THIS DOCUMENT CONTAINS TECHNICAL DATA WHOSE EXPORT IS RESTRICTED BY THE ARMS EXPORT CONTROL ACT (TITLE 22, U.S.C., SEC 2751, et seq.) OR THE EXPORT ADMINISTRATION ACT OF 1979 (TITLE 50, U.S.C., APP 2401 et seq.), AS AMENDED. VIOLATIONS OF THESE EXPORT LAWS ARE SUBJECT TO SEVERE CRIMINAL PENALTIES. DISSEMINATE IN ACCORDANCE WITH PROVISIONS OF DOD DIRECTIVE 5230.25.

THIS DOCUMENT CONTAINS INFORMATION EXEMPT FROM MANDATORY DISCLOSURE UNDER THE FOIA. FOR OFFICIAL USE ONLY

QTY. REQ'D	DRAWING OR PART NO.	NOMENCLATURE OR MATERIAL	SPECIFICATION	ITEM NO.
PARTS LIST				
NEXT ASSY 199-0903 199-0904	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005 FRACTIONS ± 1/32 ANGLES ± 0° 30'	ORIGINAL DATE 12-08-03	U.S. ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND EDGEWOOD CHEMICAL BIOLOGICAL CENTER ABERDEEN PROVING GROUND, MARYLAND, 21010-5424	
EQUIPMENT CODE NO.	MATERIAL VIRGIN GRADE POLYETHYLENE, .187 THK, COLOR TAN 33446	DRAWN BY HSW	NOSECONE W/ SENSOR MOUNT	
		CHECKED		
		SUBMITTED	SIZE E	CAGE CODE 81361
		SECTION APPROVAL	DWG NO. 199-0183	
		DRAWING APPROVAL	SCALE 1/4	SHEET
		CONTRACT NO.		

FOR REVIEW ONLY

4

3

2

1

NOTES:

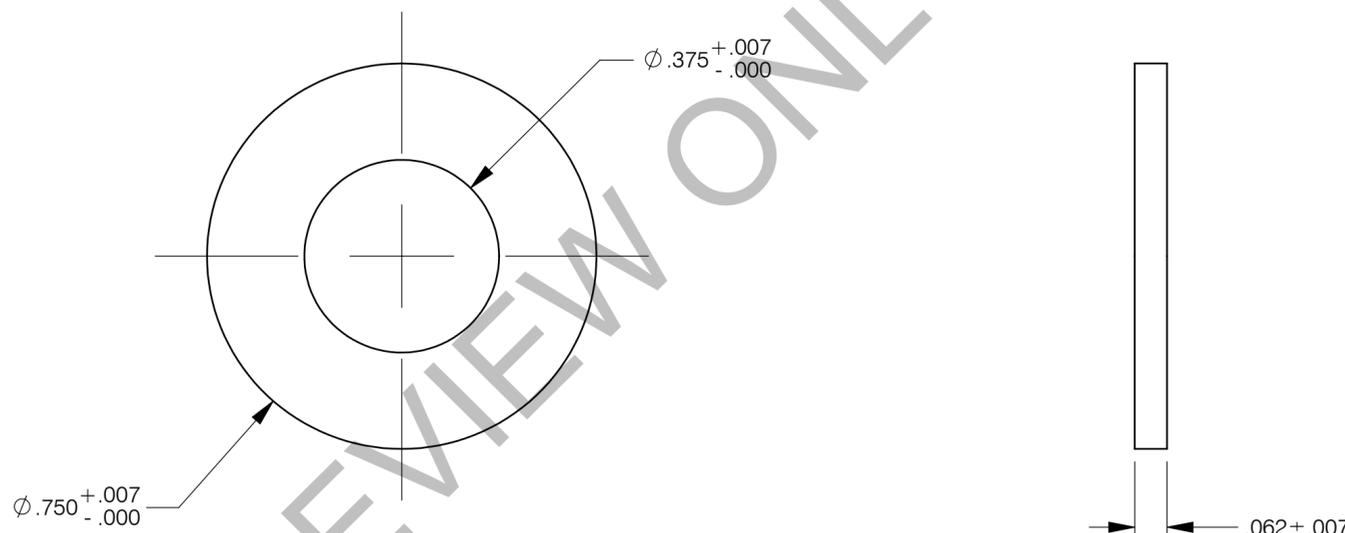
- 1. THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH ASME Y14.100 WITH THE ADDITION OF APPENDICES B THROUGH E.
- 2. THE FOLLOWING ARE MANDATORY WHEN INDICATED BY ■
  - REMOVE BURRS     BREAK SHARP EDGES .010 MAX
  - FILLETS R .010 MAX
  - 125 ALL OVER, EXCEPT AS NOTED
- DIMENSIONS APPLY:
  - BEFORE PLATING OR PAINTING
  - AFTER PLATING
  - AFTER PAINTING
- TOLERANCES ON STOCK MATERIAL SIZES, SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS.
- ASME Y14.5M-1994 APPLIES
- FED-STD-H28 APPLIES

3. IDENTIFICATION OF THE SUGGESTED SOURCE(S) OF SUPPLY HEREON IS NOT TO BE CONSTRUED AS A GUARANTEE OF PRESENT OR CONTINUED AVAILABILITY AS A SOURCE OF SUPPLY FOR THE ITEM.

4. MATERIAL: PTFE

SUGGESTED SOURCES OF SUPPLY			
CONTROL NUMBER	SUPPLIER DATA		
	CAGE CODE	PART NUMBER	NAME AND ADDRESS
199-0185	39428	2796T12	MCMaster-CARR SUPPLY COMPANY 600 COUNTY LINE RD ELMHURDT, IL 60126

REVISIONS			
LTR	DESCRIPTION	DATE (YR-MO-DA)	APPROVED
-v01	BASELINE RELEASE	13-03-15	SM/MC



FOR REVIEW ONLY

DISTRIBUTION STATEMENT D. DISTRIBUTION AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND U.S. DOD CONTRACTORS ONLY; CRITICAL TECHNOLOGY; DETERMINATION MADE 00-00-00. OTHER REQUESTS SHALL BE REFERRED TO: TECHNICAL DIRECTOR, EDGEWOOD CHEMICAL BIOLOGICAL CENTER, ATTN: RDCB-DEA-D, ABERDEEN PROVING GROUND, MD 21010-5424.

DESTRUCTION NOTICE - DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.

WARNING - THIS DOCUMENT CONTAINS TECHNICAL DATA WHOSE EXPORT IS RESTRICTED BY THE ARMS EXPORT CONTROL ACT (TITLE 22, U.S.C., SEC 2751, et seq.) OR THE EXPORT ADMINISTRATION ACT OF 1979 (TITLE 50, U.S.C., APP. 2401 et seq.), AS AMENDED. VIOLATIONS OF THESE EXPORT LAWS ARE SUBJECT TO SEVERE CRIMINAL PENALTIES. DISSEMINATE IN ACCORDANCE WITH PROVISIONS OF DOD DIRECTIVE 5230.25.

THIS DOCUMENT CONTAINS INFORMATION EXEMPT FROM MANDATORY DISCLOSURE UNDER THE FOIA.  
FOR OFFICIAL USE ONLY

### VENDOR ITEM CONTROL DRAWING

QTY REQD	DRAWING OR PART NO.	NOMENCLATURE OR MATERIAL	SPECIFICATION	ITEM NO.
PARTS LIST				
NEXT ASSY		UNLESS OTHERWISE SPECIFIED	ORIGINAL DATE (YR-MO-DA)	U.S. ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND EDGEWOOD CHEMICAL BIOLOGICAL CENTER ABERDEEN PROVING GROUND, MARYLAND, 21010-5424
199-0172		DIMENSIONS ARE IN INCHES TOLERANCES ON: 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005 FRACTIONS ± 1/32 ANGLES ± 0° 30'	13-03-15	
199-0173			DRAWN BY	CHECKER
		JJC		THRUST BEARING
		SUBMITTED		
		DESIGN APPROVAL		
		DRAWING APPROVAL		SIZE
EQUIPMENT CODE NO.		SEE NOTE 3		C
				CAGE CODE
				81361
				DWG NO.
				199-0185
		CONTRACT NO.		SCALE
				4/1
				SHEET

4

3

2

1

4

3

2

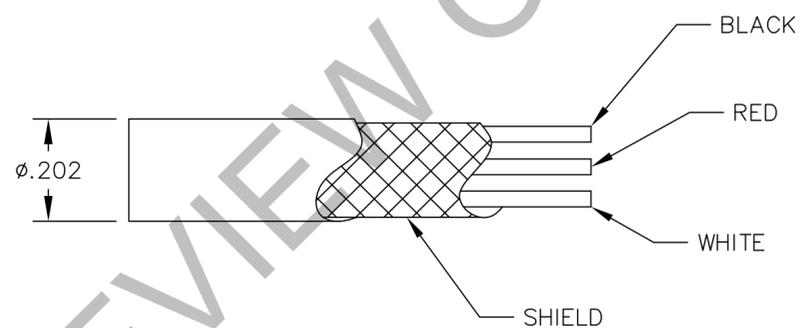
1

NOTES:

- 1. THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH ASME Y14.100 WITH THE ADDITION OF APPENDICES B THROUGH E.
- 2. THE FOLLOWING ARE MANDATORY WHEN INDICATED BY ■
  - REMOVE BURRS  BREAK SHARP EDGES .010 MAX
  - FILLETS R .010 MAX
  - 125 ALL OVER, EXCEPT AS NOTED
- DIMENSIONS APPLY:
  - BEFORE PLATING OR PAINTING
  - AFTER PLATING
  - AFTER PAINTING
- TOLERANCES ON STOCK MATERIAL SIZES, SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS.
- ASME Y14.5M-1994 APPLIES
- FED-STD-H28 APPLIES
- 3. IDENTIFICATION OF THE SUGGESTED SOURCE(S) OF SUPPLY HEREON IS NOT TO BE CONSTRUED AS A GUARANTEE OF PRESENT OR CONTINUED AVAILABILITY AS A SOURCE OF SUPPLY FOR THE ITEM.
- 4. REQUIREMENTS:
  - A) CONDUCTOR: 22 AWG STRANDED (7 X 30) TINNED COPPER WITH PVC INSULATION
  - B) SHIELD: TINNED COPPER BRAIDED SHIELD (70% COVERAGE)
  - C) JACKET: CHROME PVC JACKET

SUGGESTED SOURCES OF SUPPLY			
CONTROL NUMBER	SUPPLIER DATA		
	CAGE CODE	PART NUMBER	NAME AND ADDRESS
199-0618	16428	8735-0601000	BELDEN WIRE AND CABLE 2200 U.S. HIGHWAY 27 S RICHMOND, IN 47374

REVISIONS			
LTR	DESCRIPTION	DATE (YR-MO-DA)	APPROVED
-v01	BASELINE RELEASE	13-06-12	SM/MC



FOR REVIEW ONLY

DISTRIBUTION STATEMENT D. DISTRIBUTION AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND U.S. DOD CONTRACTORS ONLY; CRITICAL TECHNOLOGY; DETERMINATION MADE 00-00-00. OTHER REQUESTS SHALL BE REFERRED TO TECHNICAL DIRECTOR, EDGEWOOD CHEMICAL BIOLOGICAL CENTER, ATTN: RDCB-DEA-D, ABERDEEN PROVING GROUND, MD

DESTRUCTION NOTICE - DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.

WARNING - THIS DOCUMENT CONTAINS TECHNICAL DATA WHOSE EXPORT IS RESTRICTED BY THE ARMS EXPORT CONTROL ACT (TITLE 22, U.S.C., SEC 2751, et. seq.) OR THE EXPORT ADMINISTRATION ACT OF 1979, (TITLE 50, U.S.C., APP. 2401 et. seq.), AS AMENDED. VIOLATIONS OF THESE EXPORT LAWS ARE SUBJECT TO SEVERE CRIMINAL PENALTIES. DISSEMINATE IN ACCORDANCE WITH PROVISIONS OF DOD DIRECTIVE 5230.25.

THIS DOCUMENT CONTAINS INFORMATION EXEMPT FROM MANDATORY DISCLOSURE UNDER THE FOIA.  
FOR OFFICIAL USE ONLY

VENDOR ITEM CONTROL DRAWING

QTY REQD	DWG SIZE	DRAWING OR PART NO.	NOMENCLATURE OR MATERIAL	SPECIFICATION	ITEM NO.
PARTS LIST					
NEXT ASSY	UNLESS OTHERWISE SPECIFIED		ORIGINAL DATE (YR-MO-DA)	U.S. ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND	
199-0802	DIMENSIONS ARE IN INCHES		13-06-12	EDGEWOOD CHEMICAL BIOLOGICAL CENTER	
199-0815	TOLERANCES ON:		DRAWN BY	ABERDEEN PROVING GROUND, MARYLAND, 21010-5424	
199-0816	2 PLACE DECIMALS ± .01		JJC	CABLE, SHIELDED, 3 CONDUCTOR, 22 AWG	
	3 PLACE DECIMALS ± .005		CHECKER		
	FRACTIONS ± 1/32		SUBMITTED		
	ANGLES ± 0° 30'		DESIGN APPROVAL		
	MATERIAL		DRAWING APPROVAL	SIZE	CAGE CODE
EQUIPMENT CODE NO.			CONTRACT NO.	C	81361
				DWG NO.	199-0618
				SCALE	NONE
				SHEET	

4

3

2

1

4

3

2

1

NOTES:

- 1. THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH ASME Y14.100 WITH THE ADDITION OF APPENDICES B THROUGH E.
- 2. THE FOLLOWING ARE MANDATORY WHEN INDICATED BY ■
  - REMOVE BURRS     BREAK SHARP EDGES .010 MAX
  - FILLETS R .010 MAX
  - <sup>125</sup> ALL OVER, EXCEPT AS NOTED
- DIMENSIONS APPLY:
  - BEFORE PLATING OR PAINTING
  - AFTER PLATING
  - AFTER PAINTING
- TOLERANCES ON STOCK MATERIAL SIZES, SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS.
- ASME Y14.5M-1994 APPLIES
- FED-STD-H28 APPLIES
- 3. IDENTIFICATION OF THE SUGGESTED SOURCE(S) OF SUPPLY HEREON IS NOT TO BE CONSTRUED AS A GUARANTEE OF PRESENT OR CONTINUED AVAILABILITY AS A SOURCE OF SUPPLY FOR THE ITEM.
- 4. MATERIAL:  
FLAME RETARDANT PET
- 5. COLOR: BLACK WITH WHITE TRACER

SUGGESTED SOURCES OF SUPPLY			
CONTROL NUMBER	SUPPLIER DATA		
	CAGE CODE	PART NUMBER	NAME AND ADDRESS
199-0623-1	55914	FRN0.13TB	CABLE MARKERS CO. INC. 22600 LAMBERT ST, STE 1204F LAKE FOREST, CA 92630-1623
199-0623-2	55914	FRN0.25TB	CABLE MARKERS CO. INC. 22600 LAMBERT ST, STE 1204F LAKE FOREST, CA 92630-1623
199-0623-3	55914	FRN0.38TB	CABLE MARKERS CO. INC. 22600 LAMBERT ST, STE 1204F LAKE FOREST, CA 92630-1623
199-0623-4	55914	FRN0.75TB	CABLE MARKERS CO. INC. 22600 LAMBERT ST, STE 1204F LAKE FOREST, CA 92630-1623
199-0623-5	55914	FRN0.50TB	CABLE MARKERS CO. INC. 22600 LAMBERT ST, STE 1204F LAKE FOREST, CA 92630-1623

REVISIONS			
LTR	DESCRIPTION	DATE (YR-MO-DA)	APPROVED
-v01	BASELINE RELEASE	13-04-02	SM/MC



DASH NO.	Ø A	EXPANSION RANGE	
		MIN	MAX
-1	1/8	3/32	1/4
-2	1/4	1/8	7/16
-3	3/8	3/16	1/2
-4	3/4	1/2	1 1/4
-5	1/2	1/4	3/4

FOR REVIEW ONLY

DISTRIBUTION STATEMENT D. DISTRIBUTION AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND U.S. DOD CONTRACTORS ONLY; CRITICAL TECHNOLOGY; DETERMINATION MADE 00-00-00. OTHER REQUESTS SHALL BE REFERRED TO: TECHNICAL DIRECTOR, EDGEWOOD CHEMICAL BIOLOGICAL CENTER, ATTN: RDCB-DEA-D, ABERDEEN PROVING GROUND, MD 21010-5424.

DESTRUCTION NOTICE - DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.

WARNING - THIS DOCUMENT CONTAINS TECHNICAL DATA WHOSE EXPORT IS RESTRICTED BY THE ARMS EXPORT CONTROL ACT (TITLE 22, U.S.C., SEC 2751, et seq.) OR THE EXPORT ADMINISTRATION ACT OF 1979 (TITLE 50, U.S.C., APP. 2401 et seq.), AS AMENDED. VIOLATIONS OF THESE EXPORT LAWS ARE SUBJECT TO SEVERE CRIMINAL PENALTIES. DISSEMINATE IN ACCORDANCE WITH PROVISIONS OF DOD DIRECTIVE 5230.25.

THIS DOCUMENT CONTAINS INFORMATION EXEMPT FROM MANDATORY DISCLOSURE UNDER THE FOIA.  
FOR OFFICIAL USE ONLY

## VENDOR ITEM CONTROL DRAWING

QTY REQD	DRAWING OR PART NO.	NOMENCLATURE OR MATERIAL	SPECIFICATION	ITEM NO.
PARTS LIST				
NEXT ASSY		UNLESS OTHERWISE SPECIFIED	ORIGINAL DATE (YR-MO-DA) 13-04-02	
199-0808		DIMENSIONS ARE IN INCHES TOLERANCES ON: 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005 FRACTIONS ± 1/32 ANGLES ± 0° 30'	DRAWN BY JJC    CHECKER	
199-0825			SUBMITTED	
		MATERIAL	DESIGN APPROVAL	
			DRAWING APPROVAL	
EQUIPMENT CODE NO.			CONTRACT NO.	
			U.S. ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND EDGEWOOD CHEMICAL BIOLOGICAL CENTER ABERDEEN PROVING GROUND, MARYLAND, 21010-5424	
			SLEEVING, WIRE MESH, EXPANDABLE	
			SIZE C	CAGE CODE 81361
			DWG NO. 199-0623	
			SCALE 1/1	SHEET

4

3

2

1

4

3

2

1

NOTES:

- 1. THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH ASME Y14.100 WITH THE ADDITION OF APPENDICES B THROUGH E.
- 2. THE FOLLOWING ARE MANDATORY WHEN INDICATED BY ■
  - REMOVE BURRS  BREAK SHARP EDGES .010 MAX
  - FILLETS R .010 MAX
  - 125 ALL OVER, EXCEPT AS NOTED
 DIMENSIONS APPLY:
  - BEFORE PLATING OR PAINTING
  - AFTER PLATING
  - AFTER PAINTING TOLERANCES ON STOCK MATERIAL SIZES, SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS.
  - ASME Y14.5M-1994 APPLIES
  - FED-STD-H28 APPLIES
- 3. IDENTIFICATION OF THE SUGGESTED SOURCE(S) OF SUPPLY HEREON IS NOT TO BE CONSTRUED AS A GUARANTEE OF PRESENT OR CONTINUED AVAILABILITY AS A SOURCE OF SUPPLY FOR THE ITEM.
- 4. REQUIREMENTS:
  - UL TYPE TC CONTROL CABLE, 600 VOLT, OVERALL PVC JACKET, 16 AWG CONDUCTOR
  - A) JACKET: POLYVINYL CHLORIDE, COLOR BLACK  
NOM. JACKET THK: .060
  - B) CONDUCTOR: 25 REQUIRED, 16 AWG COPPER WITH EXTRUDED PVC  
UL TYPE TC CONTROL CABLE, 600 VOLT, OVERALL PVC JACKET, 16 AWG CONDUCTOR

SUGGESTED SOURCES OF SUPPLY			
CONTROL NUMBER	SUPPLIER DATA		
	CAGE CODE	PART NUMBER	NAME AND ADDRESS
199-0646	1BR14	A11625	OMNI CABLE CORP 2 HAGERTY BLVD WEST CHESTER, PA 19382-7594
199-0646	22123	SEE NOTE 4	SOUTHWIRE CO. 1 SOUTHWIRE DRIVE CARROLLTON, GA 30119

REVISIONS			
LTR	DESCRIPTION	DATE (YR-MO-DA)	APPROVED
-v01	BASELINE RELEASE	13-06-12	SM/MC



FOR REVIEW ONLY

DISTRIBUTION STATEMENT D. DISTRIBUTION AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND U.S. DOD CONTRACTORS ONLY; CRITICAL TECHNOLOGY; DETERMINATION MADE 00-00-00. OTHER REQUESTS SHALL BE REFERRED TO TECHNICAL DIRECTOR, EDGEWOOD CHEMICAL BIOLOGICAL CENTER, ATTN: RDCB-DEA-D, ABERDEEN PROVING GROUND, MD

DESTRUCTION NOTICE - DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.

WARNING - THIS DOCUMENT CONTAINS TECHNICAL DATA WHOSE EXPORT IS RESTRICTED BY THE ARMS EXPORT CONTROL ACT (TITLE 22, U.S.C., SEC 2751, et. seq.) OR THE EXPORT ADMINISTRATION ACT OF 1979, (TITLE 50, U.S.C., APP. 2401 et. seq.), AS AMENDED. VIOLATIONS OF THESE EXPORT LAWS ARE SUBJECT TO SEVERE CRIMINAL PENALTIES. DISSEMINATE IN ACCORDANCE WITH PROVISIONS OF DOD DIRECTIVE 5230.25.

THIS DOCUMENT CONTAINS INFORMATION EXEMPT FROM MANDATORY DISCLOSURE UNDER THE FOIA.  
FOR OFFICIAL USE ONLY

VENDOR ITEM CONTROL DRAWING

QTY REQD	DWG SIZE	DRAWING OR PART NO.	NOMENCLATURE OR MATERIAL	SPECIFICATION	ITEM NO.
			PARTS LIST		
		NEXT ASSY 199-0802	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: 2 PLACE DECIMALS $\pm .01$ 3 PLACE DECIMALS $\pm .005$ FRACTIONS $\pm 1/32$ ANGLES $\pm 0^\circ 30'$	ORIGINAL DATE (YR-MO-DA) 13-06-12	U.S. ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND EDGEWOOD CHEMICAL BIOLOGICAL CENTER ABERDEEN PROVING GROUND, MARYLAND, 21010-5424
		EQUIPMENT CODE NO.	MATERIAL	DRAWN BY JJC	CHECKER
				CABLE, 25 CONDUCTOR, 16 AWG	
				DESIGN APPROVAL	
				DRAWING APPROVAL	SIZE C
				CONTRACT NO.	CAGE CODE 81361
					DWG NO. 199-0646
				SCALE NONE	SHEET

4

3

2

1



4

3

2

1

NOTES:

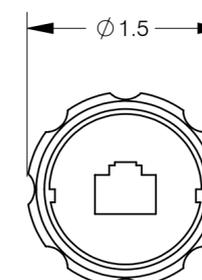
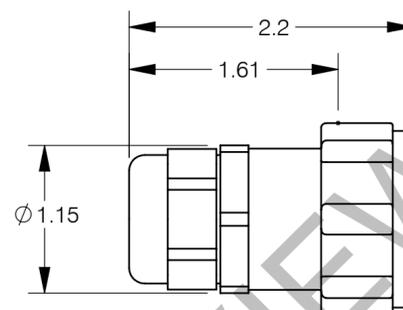
- 1. THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH ASME Y14.100 WITH THE ADDITION OF APPENDICES B THROUGH E.
- 2. THE FOLLOWING ARE MANDATORY WHEN INDICATED BY ■
  - REMOVE BURRS     BREAK SHARP EDGES .010 MAX
  - FILLETS R .010 MAX
  - 125 ALL OVER, EXCEPT AS NOTED
- DIMENSIONS APPLY:
  - BEFORE PLATING OR PAINTING
  - AFTER PLATING
  - AFTER PAINTING
- TOLERANCES ON STOCK MATERIAL SIZES, SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS.
- ASME Y14.5M-1994 APPLIES
- FED-STD-H28 APPLIES

3. IDENTIFICATION OF THE SUGGESTED SOURCE(S) OF SUPPLY HEREON IS NOT TO BE CONSTRUED AS A GUARANTEE OF PRESENT OR CONTINUED AVAILABILITY AS A SOURCE OF SUPPLY FOR THE ITEM.

4. REQUIREMENTS:
- A) BODY - ALUMINUM
  - B) FINISH - OLIVE DRAB CADMIUM PLATE
  - C) THREADS - TRI-START THREAD COUPLING MECHANISM IAW MIL-DTL-38999, SERIES III TYPE
  - D) INSERT - CODE A

SUGGESTED SOURCES OF SUPPLY			
CONTROL NUMBER	SUPPLIER DATA		
	CAGE CODE	PART NUMBER	NAME AND ADDRESS
199-0663	F6162	RJF TV 6MG	AMPHENOL SOCAPEX 948 PROMENADE DE L'ARVE THYEZ, FRANCE 74300-FRA

REVISIONS			
LTR	DESCRIPTION	DATE (YR-MO-DA)	APPROVED
-v01	BASELINE RELEASE	13-03-20	SM/MC



FOR REVIEW ONLY

DISTRIBUTION STATEMENT D. DISTRIBUTION AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND U.S. DOD CONTRACTORS ONLY; CRITICAL TECHNOLOGY; DETERMINATION MADE 00-00-00. OTHER REQUESTS SHALL BE REFERRED TO: TECHNICAL DIRECTOR, EDGEWOOD CHEMICAL BIOLOGICAL CENTER, ATTN: RDCB-DEA-D, ABERDEEN PROVING GROUND, MD 21010-5424.

DESTRUCTION NOTICE - DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.

WARNING - THIS DOCUMENT CONTAINS TECHNICAL DATA WHOSE EXPORT IS RESTRICTED BY THE ARMS EXPORT CONTROL ACT (TITLE 22, U.S.C., SEC 2751, et seq.) OR THE EXPORT ADMINISTRATION ACT OF 1979 (TITLE 50, U.S.C., APP. 2401 et seq.), AS AMENDED. VIOLATIONS OF THESE EXPORT LAWS ARE SUBJECT TO SEVERE CRIMINAL PENALTIES. DISSEMINATE IN ACCORDANCE WITH PROVISIONS OF DOD DIRECTIVE 5230.25.

THIS DOCUMENT CONTAINS INFORMATION EXEMPT FROM MANDATORY DISCLOSURE UNDER THE FOIA.  
FOR OFFICIAL USE ONLY

### VENDOR ITEM CONTROL DRAWING

QTY REQD	DRAWING OR PART NO.	NOMENCLATURE OR MATERIAL	SPECIFICATION	ITEM NO.
PARTS LIST				
NEXT ASSY		UNLESS OTHERWISE SPECIFIED	ORIGINAL DATE 13-03-20	
199-0821			DRAWN BY JJC    CHECKER	
199-0824		DIMENSIONS ARE IN INCHES TOLERANCES ON: 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005 FRACTIONS ± 1/32 ANGLES ± 0° 30'	SUBMITTED	
			DESIGN APPROVAL	
			DRAWING APPROVAL	
			CONTRACT NO.	
EQUIPMENT CODE NO.		MATERIAL	U.S. ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND EDGEWOOD CHEMICAL BIOLOGICAL CENTER ABERDEEN PROVING GROUND, MARYLAND, 21010-5424	
			ETHERNET CONNECTOR, PLUG	
			SIZE C	CAGE CODE 81361
			DWG NO. 199-0663	
			SCALE 1/1	SHEET

4

3

2

1

4

3

2

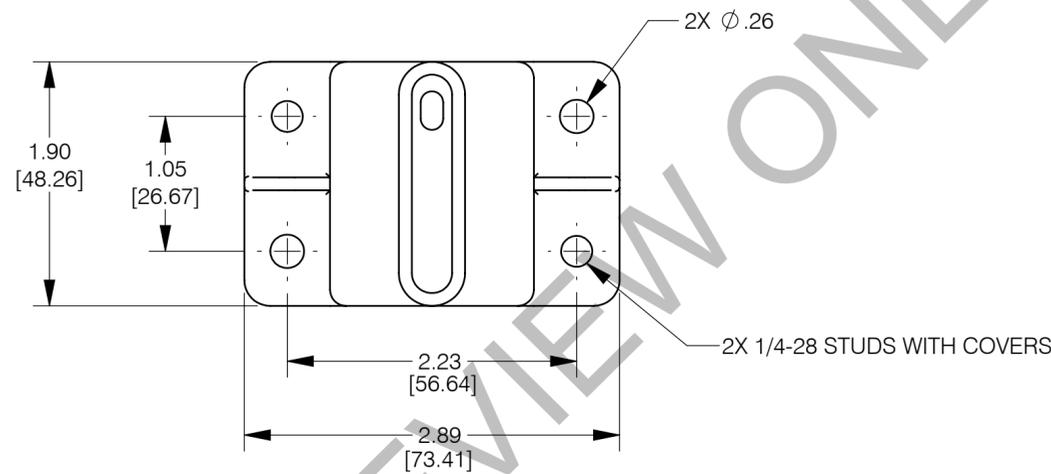
1

NOTES:

- 1. THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH ASME Y14.100 WITH THE ADDITION OF APPENDICES B THROUGH E.
- 2. THE FOLLOWING ARE MANDATORY WHEN INDICATED BY ■
  - REMOVE BURRS     BREAK SHARP EDGES .010 MAX
  - FILLETS R .010 MAX
  - 125 ALL OVER, EXCEPT AS NOTED
- DIMENSIONS APPLY:
  - BEFORE PLATING OR PAINTING
  - AFTER PLATING
  - AFTER PAINTING
- TOLERANCES ON STOCK MATERIAL SIZES, SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS.
- ASME Y14.5M-1994 APPLIES
- FED-STD-H28 APPLIES
- 3. IDENTIFICATION OF THE SUGGESTED SOURCE(S) OF SUPPLY HEREON IS NOT TO BE CONSTRUED AS A GUARANTEE OF PRESENT OR CONTINUED AVAILABILITY AS A SOURCE OF SUPPLY FOR THE ITEM.
- 4. REQUIREMENTS:
  - A) BODY MATERIAL: THERMOSET PLASTIC
  - B) SINGLE POLE THERMAL TYPE BREAKER
  - C) VOLTAGE: 48V
  - D) AMPS: 3,000A @ 30VDC
  - E) OPERATING TEMPERATURE: -25°F [-32°C] TO 180°F [82°C]

SUGGESTED SOURCES OF SUPPLY			
CONTROL NUMBER	SUPPLIER DATA		
	CAGE CODE	PART NUMBER	NAME AND ADDRESS
199-0708	58961	46980	WAYTEK, INC 2440 GALPIN CT CHANHASSEN, MN 55317

REVISIONS			
LTR	DESCRIPTION	DATE (YR-MO-DA)	APPROVED
-v01	BASELINE RELEASE	13-04-16	SM/MC



FOR REVIEW ONLY

VENDOR ITEM CONTROL DRAWING

DISTRIBUTION STATEMENT D. DISTRIBUTION AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND U.S. DOD CONTRACTORS ONLY; CRITICAL TECHNOLOGY; DETERMINATION MADE 00-00-00. OTHER REQUESTS SHALL BE REFERRED TO: TECHNICAL DIRECTOR, EDGEWOOD CHEMICAL BIOLOGICAL CENTER, ATTN: RDCB-DEA-D, ABERDEEN PROVING GROUND, MD 21010-5424.

DESTRUCTION NOTICE - DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.

WARNING - THIS DOCUMENT CONTAINS TECHNICAL DATA WHOSE EXPORT IS RESTRICTED BY THE ARMS EXPORT CONTROL ACT (TITLE 22, U.S.C., SEC 2751, et seq.) OR THE EXPORT ADMINISTRATION ACT OF 1979 (TITLE 50, U.S.C., APP. 2401 et seq.), AS AMENDED. VIOLATIONS OF THESE EXPORT LAWS ARE SUBJECT TO SEVERE CRIMINAL PENALTIES. DISSEMINATE IN ACCORDANCE WITH PROVISIONS OF DOD DIRECTIVE 5230.25.

THIS DOCUMENT CONTAINS INFORMATION EXEMPT FROM MANDATORY DISCLOSURE UNDER THE FOIA. FOR OFFICIAL USE ONLY

QTY REQD	DRAWING OR PART NO.	NOMENCLATURE OR MATERIAL	SPECIFICATION	ITEM NO.
		PARTS LIST		
	NEXT ASSY 199-0812	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005 FRACTIONS ± 1/32 ANGLES ± 0° 30'	ORIGINAL DATE (YR-MO-DA) 13-04-16 DRAWN BY JJC CHECKER SUBMITTED DESIGN APPROVAL DRAWING APPROVAL CONTRACT NO.	U.S. ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND EDGEWOOD CHEMICAL BIOLOGICAL CENTER ABERDEEN PROVING GROUND, MARYLAND, 21010-5424  <b>CIRCUIT BREAKER, 50 AMP</b>  SIZE C CAGE CODE 81361 DWG NO. 199-0708
	EQUIPMENT CODE NO.			SCALE 1/1 SHEET

4

3

2

1

4

3

2

1

NOTES:

1. THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH ASME Y14.100 WITH THE ADDITION OF APPENDICES B THROUGH E.

2. THE FOLLOWING ARE MANDATORY WHEN INDICATED BY ■

REMOVE BURRS     BREAK SHARP EDGES .010 MAX

FILLETS R .010 MAX

125 ALL OVER, EXCEPT AS NOTED

DIMENSIONS APPLY:

BEFORE PLATING OR PAINTING

AFTER PLATING

AFTER PAINTING

TOLERANCES ON STOCK MATERIAL SIZES, SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS.

■ ASME Y14.5M-1994 APPLIES

FED-STD-H28 APPLIES

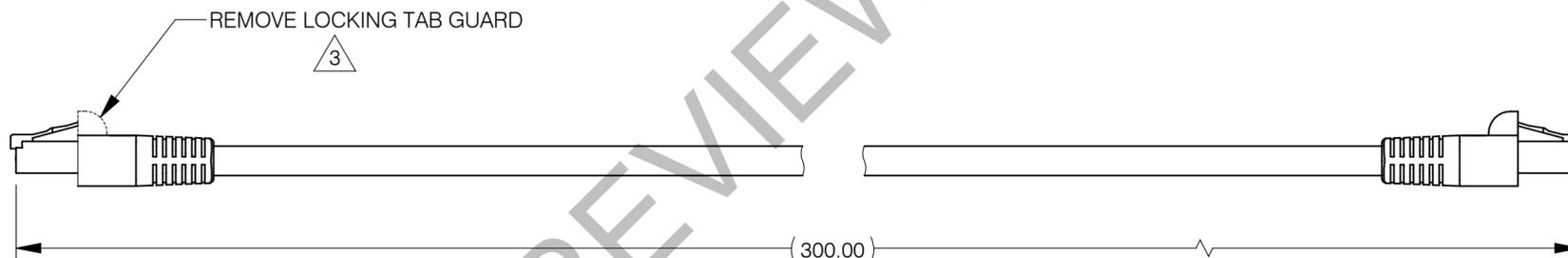
△ 3 ALTERED FEATURE(S).

4. MAKE FROM 199-15044.

REVISIONS			
LTR	DESCRIPTION	DATE (YR-MO-DA)	APPROVED
-v02	BASELINE RELEASE	13-03-19	SM/MC
-v03	ADDED NOTE 4	13-04-02	SM/MC



1 8



1 8

FOR REVIEW ONLY

ALTERED ITEM DRAWING

DISTRIBUTION STATEMENT D. DISTRIBUTION AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND U.S. DOD CONTRACTORS ONLY; CRITICAL TECHNOLOGY; DETERMINATION MADE 00-00-00. OTHER REQUESTS SHALL BE REFERRED TO: TECHNICAL DIRECTOR, EDGEWOOD CHEMICAL BIOLOGICAL CENTER, ATTN: RDCB-DEA-D, ABERDEEN PROVING GROUND, MD 21010-5424.

DESTRUCTION NOTICE - DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.

WARNING - THIS DOCUMENT CONTAINS TECHNICAL DATA WHOSE EXPORT IS RESTRICTED BY THE ARMS EXPORT CONTROL ACT (TITLE 22, U.S.C., SEC 2751, et seq.) OR THE EXPORT ADMINISTRATION ACT OF 1979 (TITLE 50, U.S.C., APP. 2401 et seq.), AS AMENDED. VIOLATIONS OF THESE EXPORT LAWS ARE SUBJECT TO SEVERE CRIMINAL PENALTIES. DISSEMINATE IN ACCORDANCE WITH PROVISIONS OF DOD DIRECTIVE 5230.25.

THIS DOCUMENT CONTAINS INFORMATION EXEMPT FROM MANDATORY DISCLOSURE UNDER THE FOIA. FOR OFFICIAL USE ONLY

QTY REQD	DRAWING OR PART NO.	NOMENCLATURE OR MATERIAL	SPECIFICATION	ITEM NO.
PARTS LIST				
1	199-0821	ETHERNET CABLE, EC111		
NEXT ASSY		UNLESS OTHERWISE SPECIFIED	ORIGINAL DATE 13-03-18	
199-0821		DIMENSIONS ARE IN INCHES	DRAWN BY JJC	
		TOLERANCES ON:	CHECKER	
		2 PLACE DECIMALS ± .01	SUBMITTED	
		3 PLACE DECIMALS ± .005	DESIGN APPROVAL	
		FRACTIONS ± 1/32	DRAWING APPROVAL	
		ANGLES ± 0° 30'	CONTRACT NO.	
EQUIPMENT CODE NO.		MATERIAL	SIZE C	CAGE CODE 81361
			DWG NO. 199-0718	
			SCALE 1/1	SHEET

U.S. ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND  
EDGEWOOD CHEMICAL BIOLOGICAL CENTER  
ABERDEEN PROVING GROUND, MARYLAND, 21010-5424

ETHERNET CABLE, EC111

SIZE C    CAGE CODE 81361    DWG NO. 199-0718

SCALE 1/1    SHEET

4

3

2

1

4

3

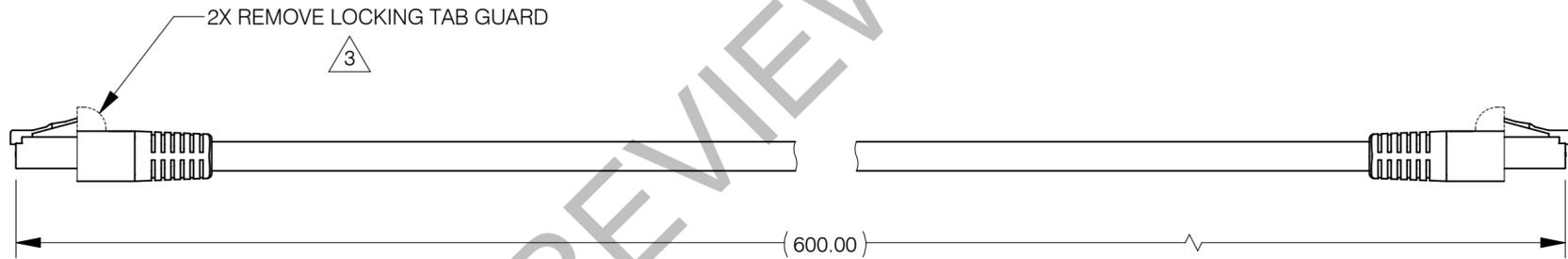
2

1

NOTES:

- 1. THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH ASME Y14.100 WITH THE ADDITION OF APPENDICES B THROUGH E.
  - 2. THE FOLLOWING ARE MANDATORY WHEN INDICATED BY ■
    - REMOVE BURRS     BREAK SHARP EDGES .010 MAX
    - FILLETS R .010 MAX
    - 125 ALL OVER, EXCEPT AS NOTED
  - DIMENSIONS APPLY:
    - BEFORE PLATING OR PAINTING
    - AFTER PLATING
    - AFTER PAINTING
  - TOLERANCES ON STOCK MATERIAL SIZES, SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS.
  - ASME Y14.5M-1994 APPLIES
  - FED-STD-H28 APPLIES
- △ 3 ALTERED FEATURE(S).
- 4. MAKE FROM 199-15044.

REVISIONS			
LTR	DESCRIPTION	DATE (YR-MO-DA)	APPROVED
-v02	BASELINE RELEASE	13-03-19	SM/MC
-v03	ADDED NOTE 4	13-04-02	SM/MC



FOR REVIEW ONLY

ALTERED ITEM DRAWING

DISTRIBUTION STATEMENT D. DISTRIBUTION AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND U.S. DOD CONTRACTORS ONLY; CRITICAL TECHNOLOGY; DETERMINATION MADE 00-00-00. OTHER REQUESTS SHALL BE REFERRED TO: TECHNICAL DIRECTOR, EDGEWOOD CHEMICAL BIOLOGICAL CENTER, ATTN: RDCB-DEA-D, ABERDEEN PROVING GROUND, MD 21010-5424.

DESTRUCTION NOTICE - DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.

WARNING - THIS DOCUMENT CONTAINS TECHNICAL DATA WHOSE EXPORT IS RESTRICTED BY THE ARMS EXPORT CONTROL ACT (TITLE 22, U.S.C., SEC 2751, et seq.) OR THE EXPORT ADMINISTRATION ACT OF 1979 (TITLE 50, U.S.C., APP. 2401 et seq.), AS AMENDED. VIOLATIONS OF THESE EXPORT LAWS ARE SUBJECT TO SEVERE CRIMINAL PENALTIES. DISSEMINATE IN ACCORDANCE WITH PROVISIONS OF DOD DIRECTIVE 5230.25.

THIS DOCUMENT CONTAINS INFORMATION EXEMPT FROM MANDATORY DISCLOSURE UNDER THE FOIA.  
FOR OFFICIAL USE ONLY

QTY REQD	DRAWING OR PART NO.	NOMENCLATURE OR MATERIAL	SPECIFICATION	ITEM NO.
PARTS LIST				
1	199-0824	ETHERNET CABLE, EC113		
NEXT ASSY		UNLESS OTHERWISE SPECIFIED	ORIGINAL DATE 13-03-18	
199-0824		DIMENSIONS ARE IN INCHES	DRAWN BY JJC	
		TOLERANCES ON:	CHECKER	
		2 PLACE DECIMALS ± .01	SUBMITTED	
		3 PLACE DECIMALS ± .005	DESIGN APPROVAL	
		FRACTIONS ± 1/32	DRAWING APPROVAL	
		ANGLES ± 0° 30'	CONTRACT NO.	
EQUIPMENT CODE NO.		MATERIAL	SIZE C	CAGE CODE 81361
			DWG NO. 199-0719	
			SCALE 1/1	SHEET

U.S. ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND  
EDGEWOOD CHEMICAL BIOLOGICAL CENTER  
ABERDEEN PROVING GROUND, MARYLAND, 21010-5424

ETHERNET CABLE, EC113

SIZE C    CAGE CODE 81361    DWG NO. 199-0719

SCALE 1/1    SHEET

4

3

2

1

NOTES:

1. THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH ASME Y14.100 WITH THE ADDITION OF APPENDICES B THROUGH E.

2. THE FOLLOWING ARE MANDATORY WHEN INDICATED BY ■

- REMOVE BURRS     BREAK SHARP EDGES .010 MAX
- FILLETS R .010 MAX.
- <sup>125</sup> ALL OVER, EXCEPT AS NOTED

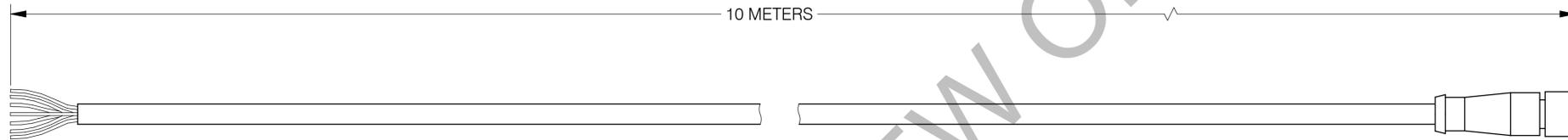
DIMENSIONS APPLY:

- BEFORE PLATING OR PAINTING
- AFTER PLATING
- AFTER PAINTING
- TOLERANCES ON STOCK MATERIAL SIZES, SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS.
- ASME Y14.5M-1994 APPLIES
- FED-STD-H28 APPLIES

3. IDENTIFICATION OF THE SUGGESTED SOURCE(S) OF SUPPLY HEREON IS NOT TO BE CONSTRUED AS A GUARANTEE OF PRESENT OR CONTINUED AVAILABILITY AS A SOURCE OF SUPPLY FOR THE ITEM.

SUGGESTED SOURCES OF SUPPLY			
CONTROL NUMBER	SUPPLIER DATA		
	CAGE CODE	PART NUMBER	NAME AND ADDRESS
199-0720	0RPE1	BKS-S115-PU-10	BALLUFF INC 8125 HOLTON DR FLORENCE, KY 41042

REVISIONS			
LTR	DESCRIPTION	DATE (YR-MO-DA)	APPROVED
-v01	BASELINE RELEASE	13-03-13	SM/MC



YELLOW	1
GRAY	2
PINK	3
RED	4
GREEN	5
BLUE	6
BROWN	7
WHITE	8

DISTRIBUTION STATEMENT D. DISTRIBUTION AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND U.S. DOD CONTRACTORS ONLY; CRITICAL TECHNOLOGY; DETERMINATION MADE 00-00-00. OTHER REQUESTS SHALL BE REFERRED TO: TECHNICAL DIRECTOR, EDGEWOOD CHEMICAL BIOLOGICAL CENTER, ATTN: RDCB-DEA-D, ABERDEEN PROVING GROUND, MD 21010-5424.

DESTRUCTION NOTICE - DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.

WARNING - THIS DOCUMENT CONTAINS TECHNICAL DATA WHOSE EXPORT IS RESTRICTED BY THE ARMS EXPORT CONTROL ACT (TITLE 22, U.S.C., SEC 2751, et seq.) OR THE EXPORT ADMINISTRATION ACT OF 1979 (TITLE 50, U.S.C., APP. 2401 et seq.), AS AMENDED. VIOLATIONS OF THESE EXPORT LAWS ARE SUBJECT TO SEVERE CRIMINAL PENALTIES. DISSEMINATE IN ACCORDANCE WITH PROVISIONS OF DOD DIRECTIVE 5230.25.

THIS DOCUMENT CONTAINS INFORMATION EXEMPT FROM MANDATORY DISCLOSURE UNDER THE FOIA. FOR OFFICIAL USE ONLY

### VENDOR ITEM CONTROL DRAWING

QTY REQD	DRAWING OR PART NO.	NOMENCLATURE OR MATERIAL	SPECIFICATION	ITEM NO.
		PARTS LIST		
NEXT ASSY	UNLESS OTHERWISE SPECIFIED	ORIGINAL DATE	U.S. ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND EDGEWOOD CHEMICAL BIOLOGICAL CENTER ABERDEEN PROVING GROUND, MARYLAND, 21010-5424	
199-0837	DIMENSIONS ARE IN INCHES	13-03-13	<h2>TRANSDUCER CABLE</h2>	
199-0908	TOLERANCES ON:	DRAWN BY		
	2 PLACE DECIMALS ± .01	JJC		
	3 PLACE DECIMALS ± .005	CHECKER		
	FRACTIONS ± 1/32	SUBMITTED		
	ANGLES ± 0° 30'	DESIGN APPROVAL		
EQUIPMENT CODE NO.	MATERIAL	DRAWING APPROVAL	SIZE	CAGE CODE
		CONTRACT NO.	D	81361
			DWG NO.	199-0720
			SCALE	1/1
			SHEET	1

FOR REVIEW ONLY

4

3

2

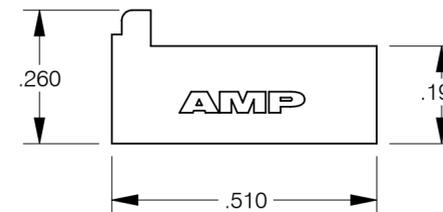
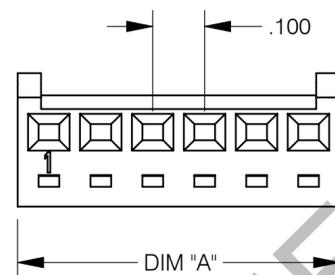
1

NOTES:

- 1. THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH ASME Y14.100 WITH THE ADDITION OF APPENDICES B THROUGH E.
- 2. THE FOLLOWING ARE MANDATORY WHEN INDICATED BY ■
  - REMOVE BURRS     BREAK SHARP EDGES .010 MAX
  - FILLETS R .010 MAX
  - 125 ALL OVER, EXCEPT AS NOTED
- DIMENSIONS APPLY:
  - BEFORE PLATING OR PAINTING
  - AFTER PLATING
  - AFTER PAINTING
- TOLERANCES ON STOCK MATERIAL SIZES, SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS.
- ASME Y14.5M-1994 APPLIES
- FED-STD-H28 APPLIES
- 3. IDENTIFICATION OF THE SUGGESTED SOURCE(S) OF SUPPLY HEREON IS NOT TO BE CONSTRUED AS A GUARANTEE OF PRESENT OR CONTINUED AVAILABILITY AS A SOURCE OF SUPPLY FOR THE ITEM.

SUGGESTED SOURCES OF SUPPLY			
CONTROL NUMBER	SUPPLIER DATA		
	CAGE CODE	PART NUMBER	NAME AND ADDRESS
199-0721-1	4V1Y1	1375820-6	TE CONNECTIVITY LTD DBA TYCO ELECTRONICS CORP 1050 WESTLAKES DRIVE BERWYN, PA 19312
199-0721-2	4V1Y1	1375820-4	TE CONNECTIVITY LTD DBA TYCO ELECTRONICS CORP 1050 WESTLAKES DRIVE BERWYN, PA 19312

REVISIONS			
LTR	DESCRIPTION	DATE (YR-MO-DA)	APPROVED
-v01	BASELINE RELEASE	13-02-14	SM/MC



-1 SHOWN

DASH NO.	DIMENSION "A"	CIRCUITS
-1	.620 <sup>+.010</sup> / <sub>-.005</sub>	6
-2	.420 <sup>+.010</sup> / <sub>-.005</sub>	4

FOR REVIEW ONLY

DISTRIBUTION STATEMENT D. DISTRIBUTION AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND U.S. DOD CONTRACTORS ONLY; CRITICAL TECHNOLOGY; DETERMINATION MADE 00-00-00. OTHER REQUESTS SHALL BE REFERRED TO: TECHNICAL DIRECTOR, EDGEWOOD CHEMICAL BIOLOGICAL CENTER, ATTN: RDCB-DEA-D, ABERDEEN PROVING GROUND, MD 21010-5424.

DESTRUCTION NOTICE - DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.

WARNING - THIS DOCUMENT CONTAINS TECHNICAL DATA WHOSE EXPORT IS RESTRICTED BY THE ARMS EXPORT CONTROL ACT (TITLE 22, U.S.C., SEC 2751, et seq.) OR THE EXPORT ADMINISTRATION ACT OF 1979 (TITLE 50, U.S.C., APP. 2401 et seq.), AS AMENDED. VIOLATIONS OF THESE EXPORT LAWS ARE SUBJECT TO SEVERE CRIMINAL PENALTIES. DISSEMINATE IN ACCORDANCE WITH PROVISIONS OF DOD DIRECTIVE 5230.25.

THIS DOCUMENT CONTAINS INFORMATION EXEMPT FROM MANDATORY DISCLOSURE UNDER THE FOIA.  
FOR OFFICIAL USE ONLY

### VENDOR ITEM CONTROL DRAWING

QTY REQD	DRAWING OR PART NO.	NOMENCLATURE OR MATERIAL	SPECIFICATION	ITEM NO.
		PARTS LIST		
	NEXT ASSY 199-0179	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005 FRACTIONS ± 1/32 ANGLES ± 0° 30'	ORIGINAL DATE (YR-MO-DA) 13-02-14 DRAWN BY JJC CHECKER SUBMITTED DESIGN APPROVAL DRAWING APPROVAL CONTRACT NO.	U.S. ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND EDGEWOOD CHEMICAL BIOLOGICAL CENTER ABERDEEN PROVING GROUND, MARYLAND, 21010-5424  <b>HEADER, .100 SPACING</b>
	EQUIPMENT CODE NO.		SIZE C	CAGE CODE 81361
			DWG NO. 199-0721	
			SCALE 4/1	SHEET

4

3

2

1

4

3

2

1

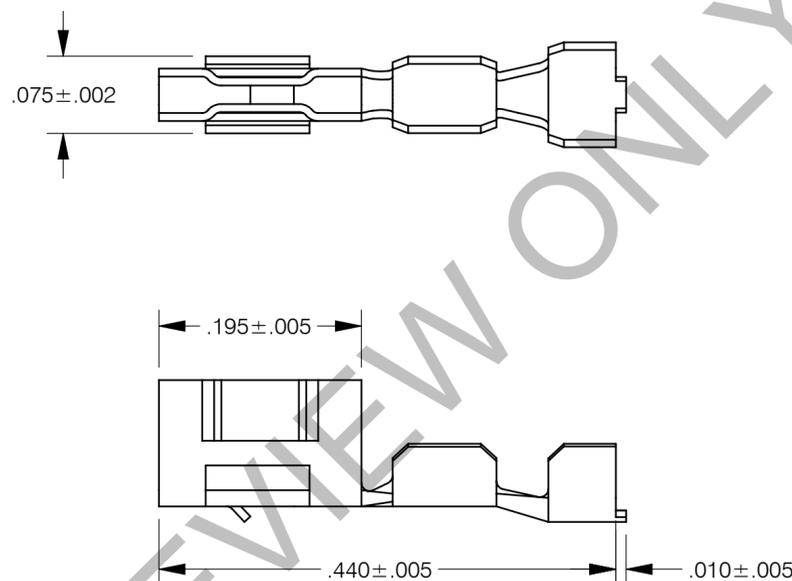
NOTES:

- 1. THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH ASME Y14.100 WITH THE ADDITION OF APPENDICES B THROUGH E.
- 2. THE FOLLOWING ARE MANDATORY WHEN INDICATED BY ■
  - REMOVE BURRS     BREAK SHARP EDGES .010 MAX
  - FILLETS R .010 MAX
  - 125 ALL OVER, EXCEPT AS NOTED
- DIMENSIONS APPLY:
  - BEFORE PLATING OR PAINTING
  - AFTER PLATING
  - AFTER PAINTING
- TOLERANCES ON STOCK MATERIAL SIZES, SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS.
- ASME Y14.5M-1994 APPLIES
- FED-STD-H28 APPLIES

- 3. IDENTIFICATION OF THE SUGGESTED SOURCE(S) OF SUPPLY HEREON IS NOT TO BE CONSTRUED AS A GUARANTEE OF PRESENT OR CONTINUED AVAILABILITY AS A SOURCE OF SUPPLY FOR THE ITEM.
- 4. REQUIREMENTS:
  - A) MATERIAL: PHOSPHOR BRONZE, PRE-TIN
  - B) WIRE SIZE: 22-26 AWG

SUGGESTED SOURCES OF SUPPLY			
CONTROL NUMBER	SUPPLIER DATA		
	CAGE CODE	PART NUMBER	NAME AND ADDRESS
199-0723	4V1Y1	1445336-1	TE CONNECTIVITY LTD DBA TYCO ELECTRONICS CORP 1050 WESTLAKES DRIVE BERWYN, PA 19312

REVISIONS			
LTR	DESCRIPTION	DATE (YR-MO-DA)	APPROVED
-v01	BASELINE RELEASE	13-02-15	SM/MC



FOR REVIEW ONLY

DISTRIBUTION STATEMENT D. DISTRIBUTION AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND U.S. DOD CONTRACTORS ONLY; CRITICAL TECHNOLOGY; DETERMINATION MADE 00-00-00. OTHER REQUESTS SHALL BE REFERRED TO: TECHNICAL DIRECTOR, EDGEWOOD CHEMICAL BIOLOGICAL CENTER, ATTN: RDCB-DEA-D, ABERDEEN PROVING GROUND, MD 21010-5424.

DESTRUCTION NOTICE - DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.

WARNING - THIS DOCUMENT CONTAINS TECHNICAL DATA WHOSE EXPORT IS RESTRICTED BY THE ARMS EXPORT CONTROL ACT (TITLE 22, U.S.C., SEC 2751, et seq.) OR THE EXPORT ADMINISTRATION ACT OF 1979 (TITLE 50, U.S.C., APP. 2401 et seq.), AS AMENDED. VIOLATIONS OF THESE EXPORT LAWS ARE SUBJECT TO SEVERE CRIMINAL PENALTIES. DISSEMINATE IN ACCORDANCE WITH PROVISIONS OF DOD DIRECTIVE 5230.25.

THIS DOCUMENT CONTAINS INFORMATION EXEMPT FROM MANDATORY DISCLOSURE UNDER THE FOIA.  
FOR OFFICIAL USE ONLY

### VENDOR ITEM CONTROL DRAWING

QTY REQD	DRAWING OR PART NO.	NOMENCLATURE OR MATERIAL	SPECIFICATION	ITEM NO.
		PARTS LIST		
	NEXT ASSY 199-0179	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: 2 PLACE DECIMALS $\pm .01$ 3 PLACE DECIMALS $\pm .005$ FRACTIONS $\pm 1/32$ ANGLES $\pm 0^{\circ} 30'$	ORIGINAL DATE (YR-MO-DA) 13-02-15 DRAWN BY JJC CHECKER SUBMITTED DESIGN APPROVAL DRAWING APPROVAL CONTRACT NO.	U.S. ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND EDGEWOOD CHEMICAL BIOLOGICAL CENTER ABERDEEN PROVING GROUND, MARYLAND, 21010-5424
	EQUIPMENT CODE NO.	MATERIAL SEE NOTE 3	HEADER CONTACT	
			SIZE C	CAGE CODE 81361
			DWG NO. 199-0723	
			SCALE 8/1	SHEET

4

3

2

1

4

3

2

1

NOTES:

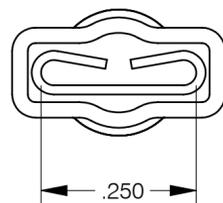
- 1. THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH ASME Y14.100 WITH THE ADDITION OF APPENDICES B THROUGH E.
- 2. THE FOLLOWING ARE MANDATORY WHEN INDICATED BY ■
  - REMOVE BURRS     BREAK SHARP EDGES .010 MAX
  - FILLETS R .010 MAX
  - 125 ALL OVER, EXCEPT AS NOTED
- DIMENSIONS APPLY:
  - BEFORE PLATING OR PAINTING
  - AFTER PLATING
  - AFTER PAINTING
- TOLERANCES ON STOCK MATERIAL SIZES, SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS.
- ASME Y14.5M-1994 APPLIES
- FED-STD-H28 APPLIES

3. IDENTIFICATION OF THE SUGGESTED SOURCE(S) OF SUPPLY HEREON IS NOT TO BE CONSTRUED AS A GUARANTEE OF PRESENT OR CONTINUED AVAILABILITY AS A SOURCE OF SUPPLY FOR THE ITEM.

4. REQUIREMENTS:
- A) MATERIAL: .032 TIN-PLATED BRASS
  - B) INSULATION: NYLON, BLUE
  - C) DOUBLE CRIMP BARREL
  - D) 600 VOLTS
  - E) 221 °F
  - F) SIZE: 16-14 AWG

SUGGESTED SOURCES OF SUPPLY			
CONTROL NUMBER	SUPPLIER DATA		
	CAGE CODE	PART NUMBER	NAME AND ADDRESS
199-0731	39428	7243K117	MCMaster-CARR SUPPLY COMPANY 600 COUNTY LINE RD ELMHURST, IL 60126

REVISIONS			
LTR	DESCRIPTION	DATE (YR-MO-DA)	APPROVED
-v01	BASELINE RELEASE	13-04-02	SM/MC



FOR REVIEW ONLY

DISTRIBUTION STATEMENT D. DISTRIBUTION AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND U.S. DOD CONTRACTORS ONLY; CRITICAL TECHNOLOGY; DETERMINATION MADE 00-00-00. OTHER REQUESTS SHALL BE REFERRED TO: TECHNICAL DIRECTOR, EDGEWOOD CHEMICAL BIOLOGICAL CENTER, ATTN: RDCB-DEA-D, ABERDEEN PROVING GROUND, MD 21010-5424.

DESTRUCTION NOTICE - DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.

WARNING - THIS DOCUMENT CONTAINS TECHNICAL DATA WHOSE EXPORT IS RESTRICTED BY THE ARMS EXPORT CONTROL ACT (TITLE 22, U.S.C., SEC 2751, et seq.) OR THE EXPORT ADMINISTRATION ACT OF 1979 (TITLE 50, U.S.C., APP. 2401 et seq.), AS AMENDED. VIOLATIONS OF THESE EXPORT LAWS ARE SUBJECT TO SEVERE CRIMINAL PENALTIES. DISSEMINATE IN ACCORDANCE WITH PROVISIONS OF DOD DIRECTIVE 5230.25.

THIS DOCUMENT CONTAINS INFORMATION EXEMPT FROM MANDATORY DISCLOSURE UNDER THE FOIA.  
FOR OFFICIAL USE ONLY

### VENDOR ITEM CONTROL DRAWING

QTY REQD	DRAWING OR PART NO.	NOMENCLATURE OR MATERIAL	SPECIFICATION	ITEM NO.
PARTS LIST				
NEXT ASSY		UNLESS OTHERWISE SPECIFIED	ORIGINAL DATE (YR-MO-DA)	U.S. ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND EDGEWOOD CHEMICAL BIOLOGICAL CENTER ABERDEEN PROVING GROUND, MARYLAND, 21010-5424
199-0808		DIMENSIONS ARE IN INCHES TOLERANCES ON: 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005 FRACTIONS ± 1/32 ANGLES ± 0° 30'	13-04-02	
199-0810			DRAWN BY	CHECKER
199-0807			JJC	
199-0848			SUBMITTED	
EQUIPMENT CODE NO.		MATERIAL	DESIGN APPROVAL	TERMINAL LUG, FEMALE, INSULATED
			DRAWING APPROVAL	
			CONTRACT NO.	
SIZE	CAGE CODE	DWG NO.		
C	81361	199-0731		
SCALE 4/1			SHEET	

4

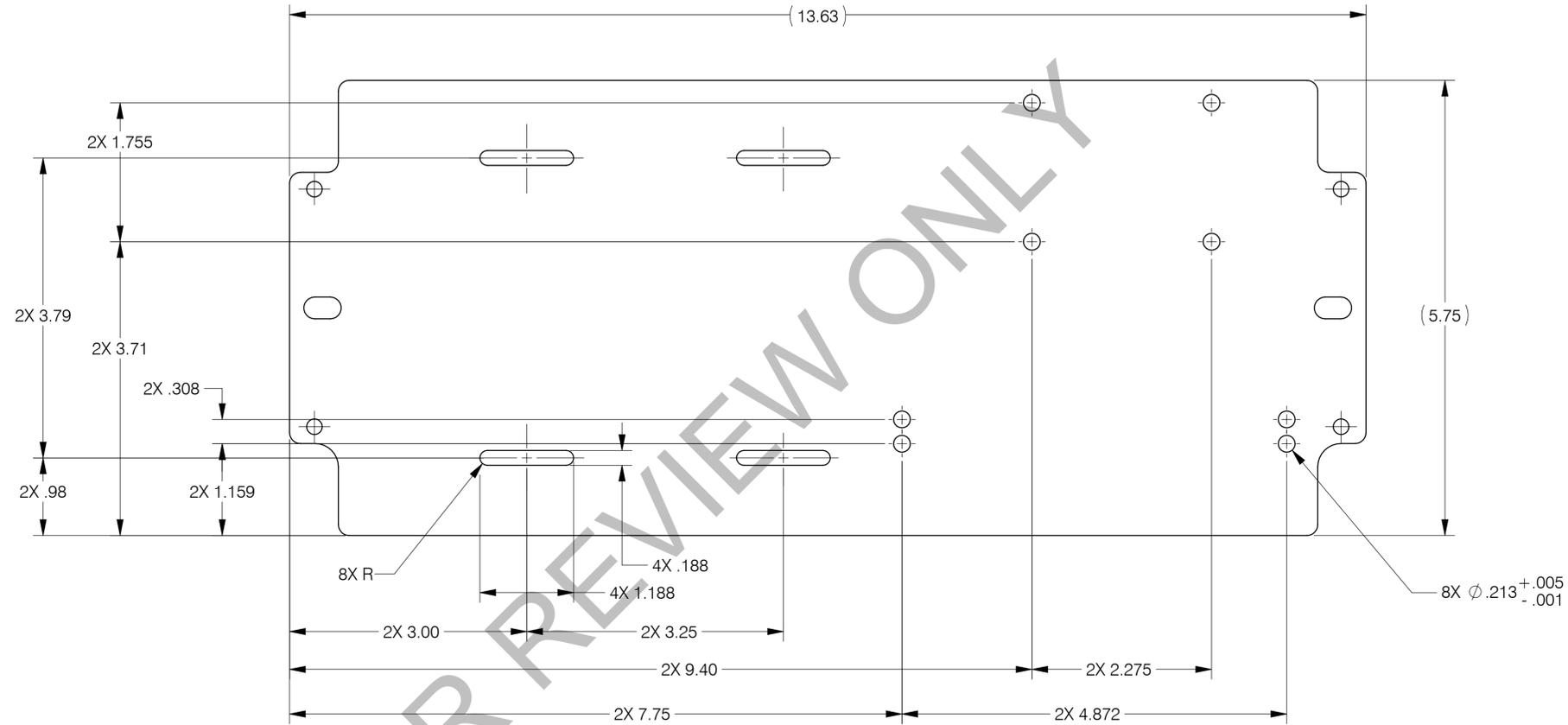
3

2

1

- NOTES:
- THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH ASME Y14.100 WITH THE ADDITION OF APPENDICES B THROUGH E.
  - THE FOLLOWING ARE MANDATORY WHEN INDICATED BY ■
    - REMOVE BURRS ■ BREAK SHARP EDGES .010 MAX
    - FILLET R .010 MAX.
    - $\sqrt{125}$  ALL OVER, EXCEPT AS NOTED
  - MAKE FROM PART NO. 199-0917.
- DIMENSIONS APPLY:
- BEFORE PLATING OR PAINTING
  - AFTER PLATING
  - AFTER PAINTING
- TOLERANCES ON STOCK MATERIAL SIZES, SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS.
- ASME Y14.5M-1994 APPLIES
  - FED-STD-H28 APPLIES

REVISIONS			
LTR	DESCRIPTION	DATE (YR-MO-DA)	APPROVED
-v01	BASELINE RELEASE WITH 199-0744, 13-04-01	13-04-30	SM/MC
Av01	199-0744, 13-07-09	13-07-25	SM/MC



DISTRIBUTION STATEMENT D. DISTRIBUTION AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND U.S. DOD CONTRACTORS ONLY; CRITICAL TECHNOLOGY; DETERMINATION MADE 00-00-00. OTHER REQUESTS SHALL BE REFERRED TO: TECHNICAL DIRECTOR, EDGEWOOD CHEMICAL BIOLOGICAL CENTER, ATTN: RDCB-DEA-D, ABERDEEN PROVING GROUND, MD 21010-5424.

DESTRUCTION NOTICE - DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.

WARNING - THIS DOCUMENT CONTAINS TECHNICAL DATA WHOSE EXPORT IS RESTRICTED BY THE ARMS EXPORT CONTROL ACT (TITLE 22, U.S.C., SEC 2751, et seq.) OR THE EXPORT ADMINISTRATION ACT OF 1979 (TITLE 50, U.S.C., APP. 2401 et seq.), AS AMENDED. VIOLATIONS OF THESE EXPORT LAWS ARE SUBJECT TO SEVERE CRIMINAL PENALTIES. DISSEMINATE IN ACCORDANCE WITH PROVISIONS OF DOD DIRECTIVE 5230.25.

THIS DOCUMENT CONTAINS INFORMATION EXEMPT FROM MANDATORY DISCLOSURE UNDER THE FOIA.  
FOR OFFICIAL USE ONLY

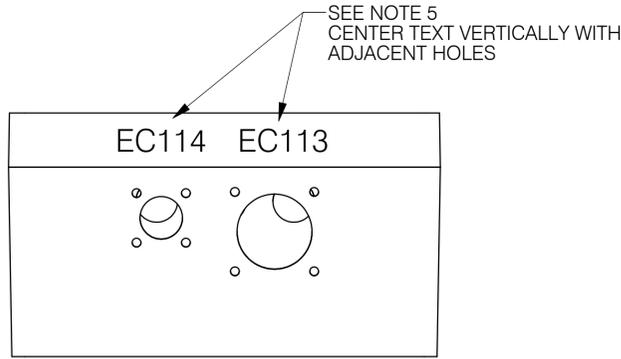
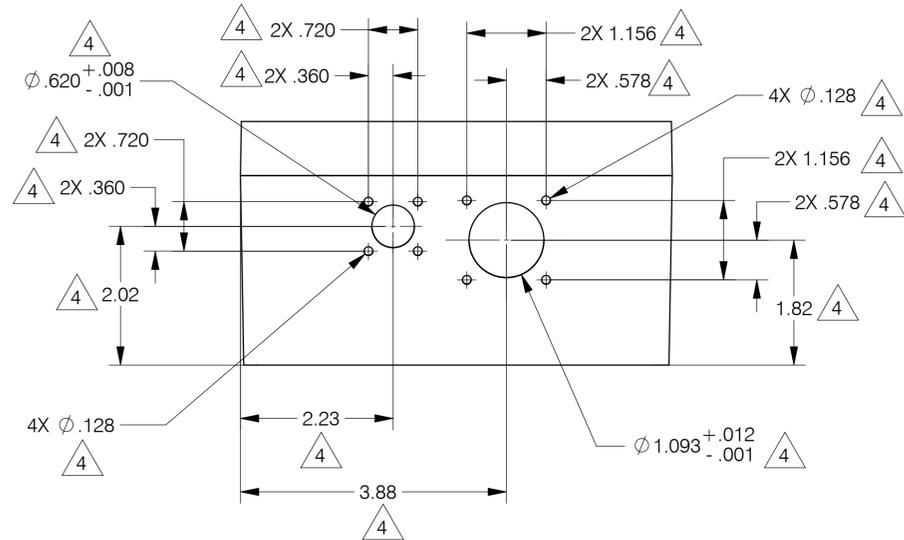
QTY REQD	DRAWING OR PART NO.	NOMENCLATURE OR MATERIAL	SPECIFICATION	ITEM NO.
PARTS LIST				
NEXT ASSY 199-0827	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005 FRACTIONS ± 1/32 ANGLES ± 0° 30'	ORIGINAL DATE 13-04-30 DRAWN BY JJC CHECKER	U.S. ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND EDGEWOOD CHEMICAL BIOLOGICAL CENTER ABERDEEN PROVING GROUND, MARYLAND, 21010-5424	
EQUIPMENT CODE NO.	MATERIAL	DESIGN APPROVAL	PLATE, COMM BOX, MODIFIED	
		DRAWING APPROVAL	SIZE D	CAGE CODE 81361
		CONTRACT NO.	DWG NO. 199-0744	
			SCALE 1/1	SHEET

- NOTES:
- THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH ASME Y14.100 WITH THE ADDITION OF APPENDICES B THROUGH E.
  - THE FOLLOWING ARE MANDATORY WHEN INDICATED BY ■
    - REMOVE BURRS □ BREAK SHARP EDGES .010 MAX
    - FILLET R .010 MAX.
    - 125 ALL OVER, EXCEPT AS NOTED
  - DIMENSIONS APPLY:
    - BEFORE PLATING OR PAINTING
    - AFTER PLATING
    - AFTER PAINTING
  - TOLERANCES ON STOCK MATERIAL SIZES, SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS.
  - ASME Y14.5M-1994 APPLIES
  - FED-STD-H28 APPLIES

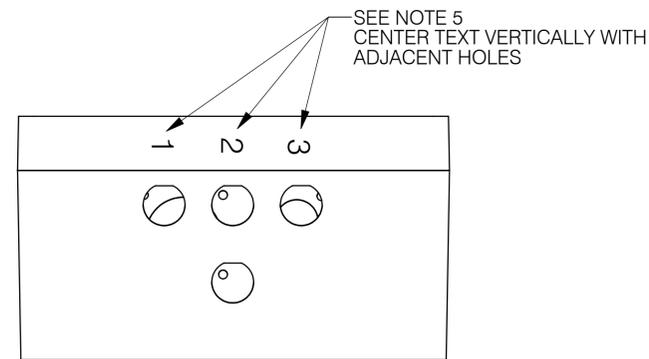
3. MAKE FROM PART NO. 199-0916.

4. ALTERED FEATURE(S).

5. STENCILING: RUBBER STAMP OR SILKSCREEN. PERMANENTLY MARK TEXT AS SHOWN. CHARACTERS TO BE .25 HIGH AND BLACK IN COLOR PER FED-STD-595.



DETAIL A-A



DETAIL B-B

FOR REVIEW ONLY

REVISIONS			
LTR	DESCRIPTION	DATE (YR-MO-DA)	APPROVED
-V01	BASELINE RELEASE WITH 199-0747, 13-04-01	13-05-23	SM/MC

DISTRIBUTION STATEMENT D. DISTRIBUTION AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND U.S. DOD CONTRACTORS ONLY; CRITICAL TECHNOLOGY; DETERMINATION MADE 00-00-00. OTHER REQUESTS SHALL BE REFERRED TO: TECHNICAL DIRECTOR, EDGEWOOD CHEMICAL BIOLOGICAL CENTER, ATTN: RDCB-DEA-D, ABERDEEN PROVING GROUND, MD 21010-5424.

DESTRUCTION NOTICE - DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.

WARNING - THIS DOCUMENT CONTAINS TECHNICAL DATA WHOSE EXPORT IS RESTRICTED BY THE ARMS EXPORT CONTROL ACT (TITLE 22, U.S.C., SEC 2751, et seq.) OR THE EXPORT ADMINISTRATION ACT OF 1979 (TITLE 50, U.S.C., APP. 2401 et seq.), AS AMENDED. VIOLATIONS OF THESE EXPORT LAWS ARE SUBJECT TO SEVERE CRIMINAL PENALTIES. DISSEMINATE IN ACCORDANCE WITH PROVISIONS OF DOD DIRECTIVE 5230.25.

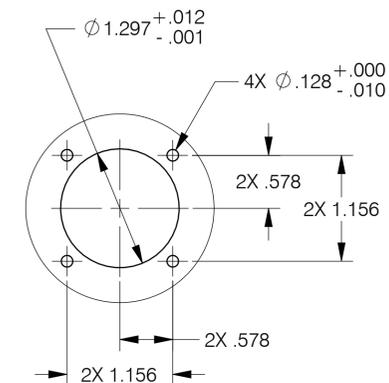
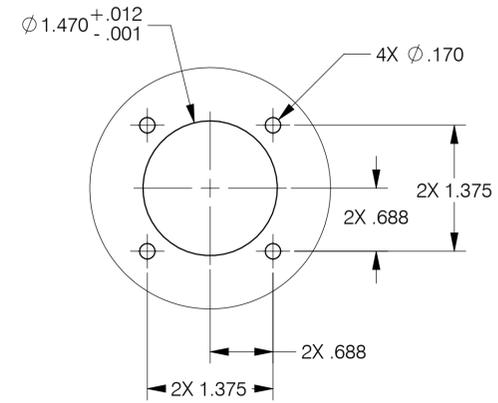
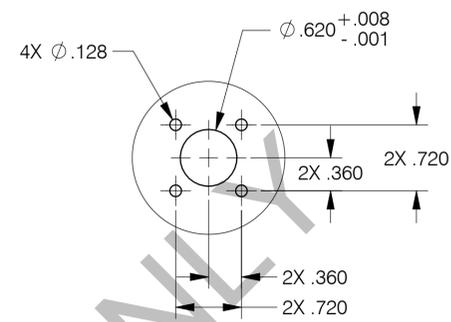
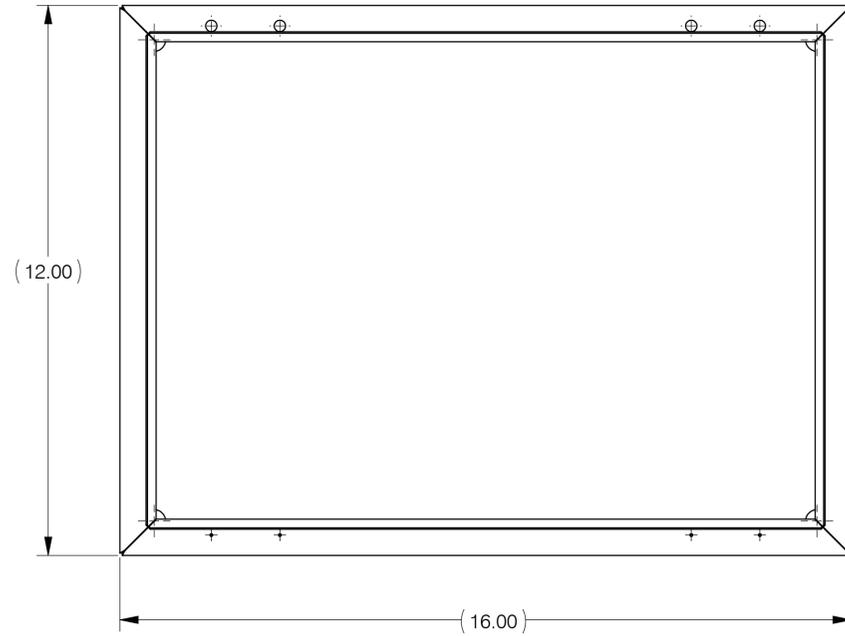
THIS DOCUMENT CONTAINS INFORMATION EXEMPT FROM MANDATORY DISCLOSURE UNDER THE FOIA.  
FOR OFFICIAL USE ONLY

ALTERED ITEM DRAWING

QTY REQD	DRAWING OR PART NO.	NOMENCLATURE OR MATERIAL	SPECIFICATION	ITEM NO.
PARTS LIST				
NEXT ASSY 199-0826	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005 FRACTIONS ± 1/32 ANGLES ± 0° 30'	ORIGINAL DATE 13-05-23 DRAWN BY JJC CHECKER	U.S. ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND EDGEWOOD CHEMICAL BIOLOGICAL CENTER ABERDEEN PROVING GROUND, MARYLAND, 21010-5424	
EQUIPMENT CODE NO.	MATERIAL	DESIGN APPROVAL	<b>PANEL COMM BOX, MODIFIED</b>	
		DRAWING APPROVAL		
		CONTRACT NO.	SIZE D	CAGE CODE 81361
			DWG NO. 199-0747	
			SCALE NONE	SHEET

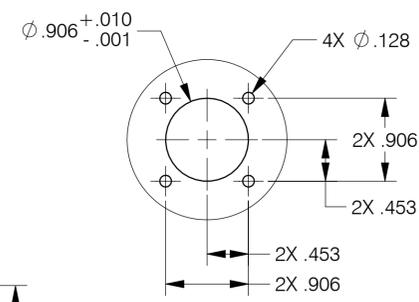
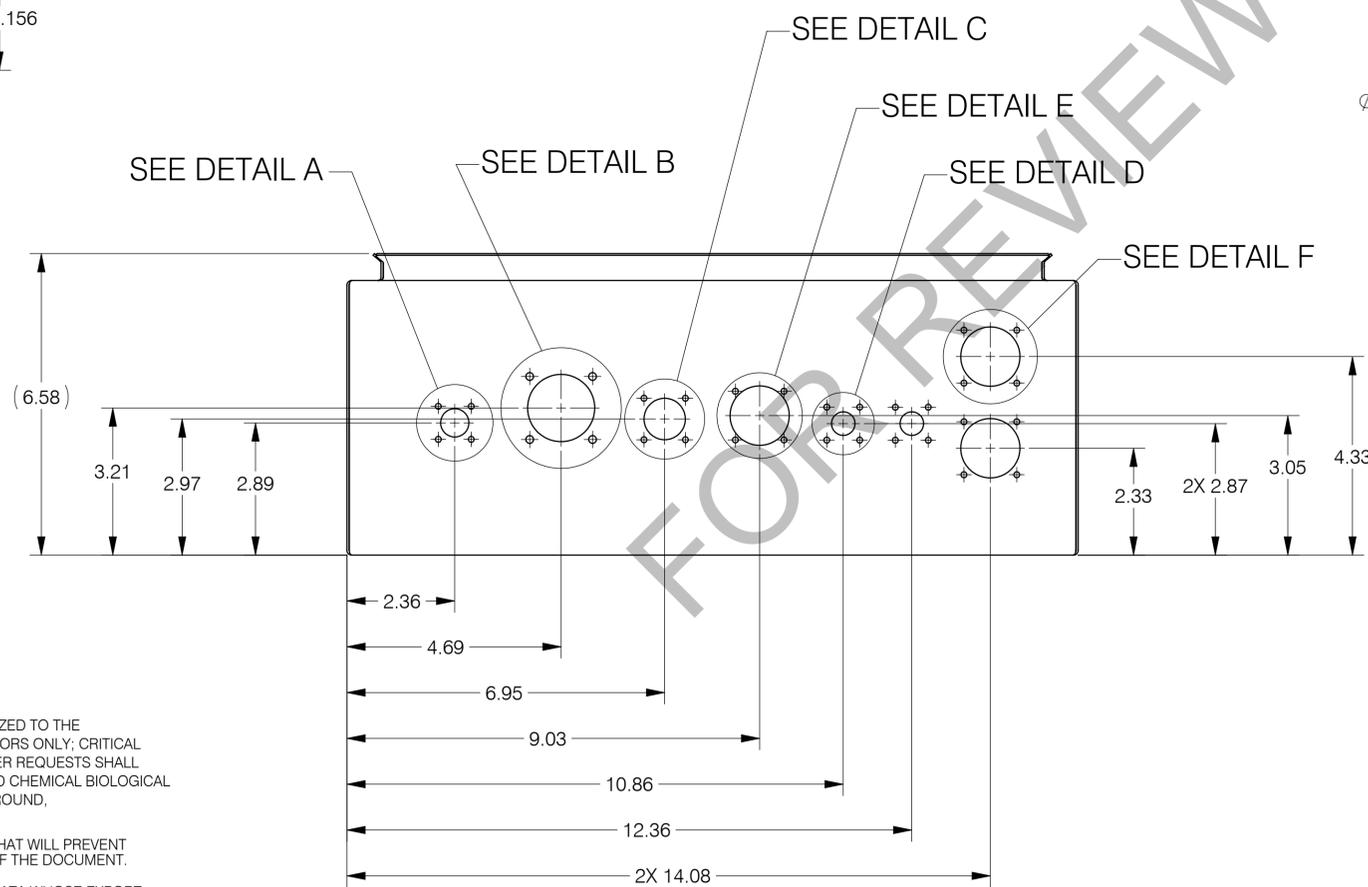
- NOTES:
- THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH ASME Y14.100 WITH THE ADDITION OF APPENDICES B THROUGH E.
  - THE FOLLOWING ARE MANDATORY WHEN INDICATED BY ■
    - REMOVE BURRS ■ BREAK SHARP EDGES .010 MAX
    - FILLET R .010 MAX.
    - 125 ALL OVER, EXCEPT AS NOTED
  - MAKE FROM DRAWING 199-0918.
- DIMENSIONS APPLY:
- BEFORE PLATING OR PAINTING
  - AFTER PLATING
  - AFTER PAINTING
- TOLERANCES ON STOCK MATERIAL SIZES, SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS.
- ASME Y14.5M-1994 APPLIES
  - FED-STD-H28 APPLIES

REVISIONS			
LTR	DESCRIPTION	DATE (YR-MO-DA)	APPROVED

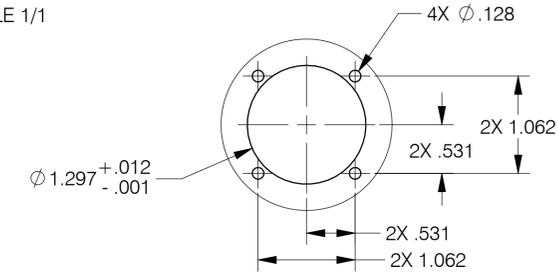


DETAIL VIEW A  
SCALE 1/1

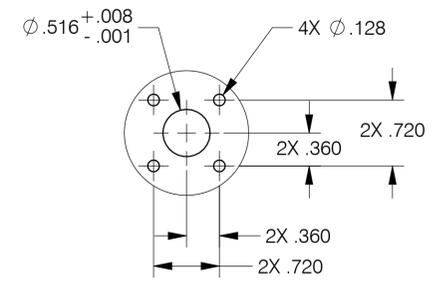
DETAIL VIEW B  
SCALE 1/1



DETAIL VIEW C  
SCALE 1/1



DETAIL VIEW E  
SCALE 1/1



DETAIL VIEW D  
SCALE 1/1  
2 REQD

ALTERED ITEM DRAWING

DISTRIBUTION STATEMENT D. DISTRIBUTION AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND U.S. DOD CONTRACTORS ONLY; CRITICAL TECHNOLOGY; DETERMINATION MADE 00-00-00. OTHER REQUESTS SHALL BE REFERRED TO: TECHNICAL DIRECTOR, EDGEWOOD CHEMICAL BIOLOGICAL CENTER, ATTN: RDCB-DEA-D, ABERDEEN PROVING GROUND, MD 21010-5424.

DESTRUCTION NOTICE - DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.

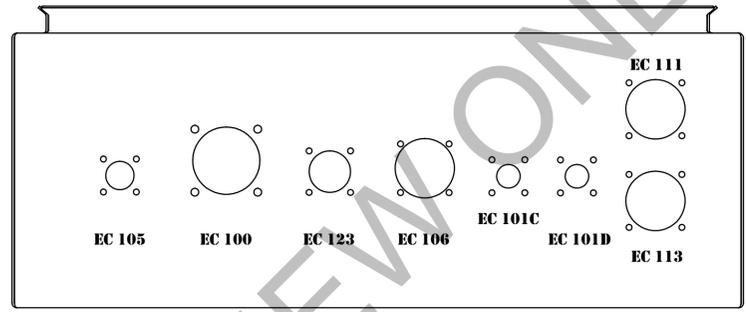
WARNING - THIS DOCUMENT CONTAINS TECHNICAL DATA WHOSE EXPORT IS RESTRICTED BY THE ARMS EXPORT CONTROL ACT (TITLE 22, U.S.C., SEC 2751, et seq.) OR THE EXPORT ADMINISTRATION ACT OF 1979 (TITLE 50, U.S.C., APP. 2401 et seq.), AS AMENDED. VIOLATIONS OF THESE EXPORT LAWS ARE SUBJECT TO SEVERE CRIMINAL PENALTIES. DISSEMINATE IN ACCORDANCE WITH PROVISIONS OF DOD DIRECTIVE 5230.25.

THIS DOCUMENT CONTAINS INFORMATION EXEMPT FROM MANDATORY DISCLOSURE UNDER THE FOIA.  
FOR OFFICIAL USE ONLY

QTY REQD	DRAWING OR PART NO.	NOMENCLATURE OR MATERIAL	SPECIFICATION	ITEM NO.
PARTS LIST				
NEXT ASSY 199-4876	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005 FRACTIONS ± 1/32 ANGLES ± 0° 30'	ORIGINAL DATE 12-12-03 DRAWN BY JJC CHECKER 	U.S. ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND EDGEWOOD CHEMICAL BIOLOGICAL CENTER ABERDEEN PROVING GROUND, MARYLAND, 21010-5424	
EQUIPMENT CODE NO.	MATERIAL SEE NOTE 3	DESIGN APPROVAL 	ENCLOSURE, ECU BOX	
		DRAWING APPROVAL 		
		CONTRACT NO. 	SIZE D	CAGE CODE 81361
			DWG NO. 199-0763	
			SCALE 1/2	SHEET 1 OF 2

- NOTES:
- THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH ASME Y14.100 WITH THE ADDITION OF APPENDICES B THROUGH E.
  - THE FOLLOWING ARE MANDATORY WHEN INDICATED BY ■
    - REMOVE BURRS     BREAK SHARP EDGES .010 MAX
    - FILLETS R .010 MAX.
    - $125^\circ$  ALL OVER, EXCEPT AS NOTED
  - DIMENSIONS APPLY:
    - BEFORE PLATING OR PAINTING
    - AFTER PLATING
    - AFTER PAINTING
  - TOLERANCES ON STOCK MATERIAL SIZES, SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS.
    - ASME Y14.5M-1994 APPLIES
    - FED-STD-H28 APPLIES

3. USING STENCIL, MARK FRONT SURFACE OF BOX WITH .25 HIGH BLACK CHARACTERS. ALL TEXT SHALL BE LOCATED APPROXIMATELY AS SHOWN.



STENCIL MARKINGS

FOR REVIEW ONLY

DISTRIBUTION STATEMENT D. DISTRIBUTION AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND U.S. DOD CONTRACTORS ONLY; CRITICAL TECHNOLOGY; DETERMINATION MADE 00-00-00. OTHER REQUESTS SHALL BE REFERRED TO: TECHNICAL DIRECTOR, EDGEWOOD CHEMICAL BIOLOGICAL CENTER, ATTN: RDCB-DEA-D, ABERDEEN PROVING GROUND, MD 21010-5424.

DESTRUCTION NOTICE - DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.

WARNING - THIS DOCUMENT CONTAINS TECHNICAL DATA WHOSE EXPORT IS RESTRICTED BY THE ARMS EXPORT CONTROL ACT (TITLE 22, U.S.C., SEC 2751, et seq.) OR THE EXPORT ADMINISTRATION ACT OF 1979 (TITLE 50, U.S.C., APP. 2401 et seq.), AS AMENDED. VIOLATIONS OF THESE EXPORT LAWS ARE SUBJECT TO SEVERE CRIMINAL PENALTIES. DISSEMINATE IN ACCORDANCE WITH PROVISIONS OF DOD DIRECTIVE 5230.25.

THIS DOCUMENT CONTAINS INFORMATION EXEMPT FROM MANDATORY DISCLOSURE UNDER THE FOIA.  
FOR OFFICIAL USE ONLY

QTY REQD	DRAWING OR PART NO.	NOMENCLATURE OR MATERIAL	SPECIFICATION	ITEM NO.	
PARTS LIST					
NEXT ASSY 199-4876	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005 FRACTIONS ± 1/32 ANGLES ± 0° 30'	ORIGINAL DATE 12-12-03 DRAWN BY JJC CHECKER	U.S. ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND EDGEWOOD CHEMICAL BIOLOGICAL CENTER ABERDEEN PROVING GROUND, MARYLAND, 21010-5424		
EQUIPMENT CODE NO.	MATERIAL SEE NOTE 3	DESIGN APPROVAL	ENCLOSURE, ECU BOX		
		DRAWING APPROVAL			
		CONTRACT NO.	SIZE D	CAGE CODE 81361	DWG NO. 199-0763
			SCALE 1/2	SHEET 2 OF 2	

- NOTES:
- THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH ASME Y14.100 WITH THE ADDITION OF APPENDICES B THROUGH E.
  - THE FOLLOWING ARE MANDATORY WHEN INDICATED BY ■
    - REMOVE BURRS
    - BREAK SHARP EDGES .010 MAX
    - FILLET R .010 MAX.
    - 125° ALL OVER, EXCEPT AS NOTED
  - MAKE FROM DRAWING 199-0919.
  - SUGGESTED SOURCE OF SUPPLY:  
MCMASTER CARR SUPPLY COMPANY  
600 COUNTY LINE RD  
ELMHURST, IL 60126  
CAGE CODE: 39428
  - INSTALL ITEMS 2 AND 3 IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

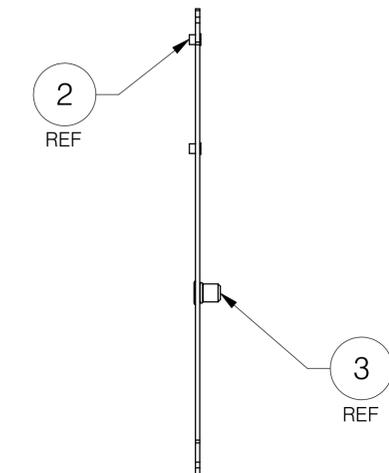
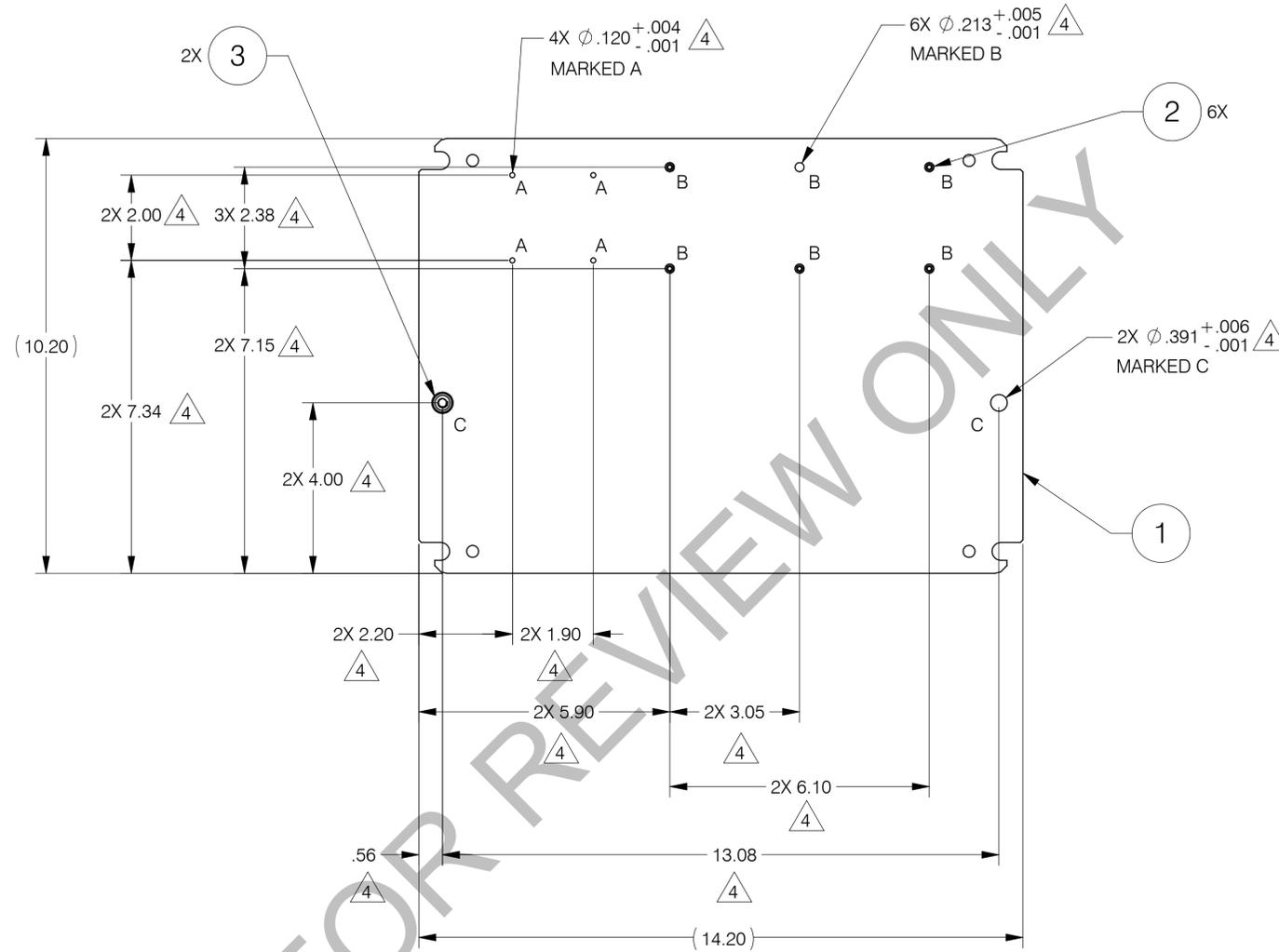
3. MAKE FROM DRAWING 199-0919.

4. ALTERED FEATURE(S).

5. SUGGESTED SOURCE OF SUPPLY:  
MCMASTER CARR SUPPLY COMPANY  
600 COUNTY LINE RD  
ELMHURST, IL 60126  
CAGE CODE: 39428

6. INSTALL ITEMS 2 AND 3 IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

REVISIONS			
LTR	DESCRIPTION	DATE (YR-MO-DA)	APPROVED
Av01	199-0766, 13-01-22 ADDED QTY REQD TO ITEMS 2 AND 3	13-01-22	MC/SM



ALTERED ITEM DRAWING

2	95105A147	RIVET NUT, KNURLED, STEEL, ZINC-PLATED, .250-20UNC-2B, .165-.260 GRIP SIZE, SEE NOTES 5 AND 6	3	
6	93090A230	STANDOFF, ROUND, CAPTIVE THREADED, 18-8 CRES, .138-32UNC-2B X .250 LONG	2	
1	199-0766-1	PLATE, SEE NOTE 3	1	
QTY REQD	DRAWING OR PART NO.	NOMENCLATURE OR MATERIAL	SPECIFICATION	ITEM NO.

PARTS LIST

NEXT ASSY 199-0817	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005 FRACTIONS ± 1/32 ANGLES ± 0° 30'	ORIGINAL DATE 12-12-03	U.S. ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND EDGEWOOD CHEMICAL BIOLOGICAL CENTER ABERDEEN PROVING GROUND, MARYLAND, 21010-5424	
EQUIPMENT CODE NO.	MATERIAL	DRAWN BY JJC	PLATE, ECU BOX	
		CHECKER	SIZE D	CAGE CODE 81361
		DESIGN APPROVAL	DWG NO. 199-0766	
		DRAWING APPROVAL	SCALE 1/2	SHEET
		CONTRACT NO.		

DISTRIBUTION STATEMENT D. DISTRIBUTION AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND U.S. DOD CONTRACTORS ONLY; CRITICAL TECHNOLOGY; DETERMINATION MADE 00-00-00. OTHER REQUESTS SHALL BE REFERRED TO: TECHNICAL DIRECTOR, EDGEWOOD CHEMICAL BIOLOGICAL CENTER, ATTN: RDCB-DEA-D, ABERDEEN PROVING GROUND, MD 21010-5424.

DESTRUCTION NOTICE - DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.

WARNING - THIS DOCUMENT CONTAINS TECHNICAL DATA WHOSE EXPORT IS RESTRICTED BY THE ARMS EXPORT CONTROL ACT (TITLE 22, U.S.C., SEC 2751, et seq.) OR THE EXPORT ADMINISTRATION ACT OF 1979 (TITLE 50, U.S.C., APP. 2401 et seq.), AS AMENDED. VIOLATIONS OF THESE EXPORT LAWS ARE SUBJECT TO SEVERE CRIMINAL PENALTIES. DISSEMINATE IN ACCORDANCE WITH PROVISIONS OF DOD DIRECTIVE 5230.25.

THIS DOCUMENT CONTAINS INFORMATION EXEMPT FROM MANDATORY DISCLOSURE UNDER THE FOIA.

FOR OFFICIAL USE ONLY

4

3

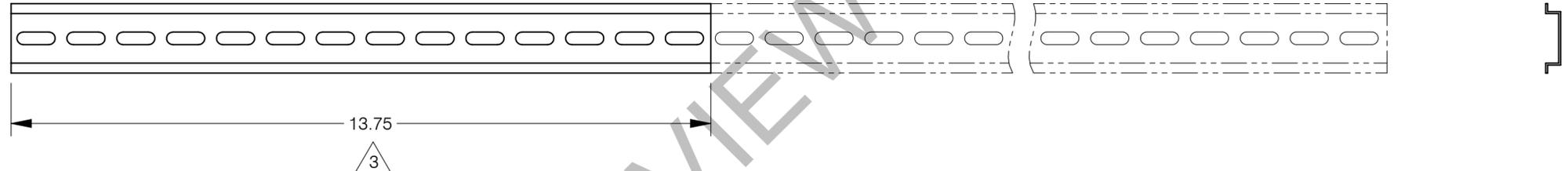
2

1

NOTES:

- 1. THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH ASME Y14.100 WITH THE ADDITION OF APPENDICES B THROUGH E.
  - 2. THE FOLLOWING ARE MANDATORY WHEN INDICATED BY ■
    - REMOVE BURRS    ■ BREAK SHARP EDGES .010 MAX
    - FILLETS R .010 MAX
    - 125 ALL OVER, EXCEPT AS NOTED
  - DIMENSIONS APPLY:
    - BEFORE PLATING OR PAINTING
    - AFTER PLATING
    - AFTER PAINTING
  - TOLERANCES ON STOCK MATERIAL SIZES, SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS.
  - ASME Y14.5M-1994 APPLIES
  - FED-STD-H28 APPLIES
- 3 ALTERED FEATURE(S).
- 4. MAKE FROM PART NO. 199-15042.
  - 5. CUT BETWEEN SLOTS SO ENDS APPEAR FLUSH, FINISHED PART SHALL 14 CLOSED SLOTS.

REVISIONS			
LTR	DESCRIPTION	DATE (YR-MO-DA)	APPROVED
-v01	BASELINE RELEASE WITH 199-0787, 12-11-05	13-03-01	SM/MC



FOR REVIEW ONLY

DISTRIBUTION STATEMENT D. DISTRIBUTION AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND U.S. DOD CONTRACTORS ONLY; CRITICAL TECHNOLOGY; DETERMINATION MADE 00-00-00. OTHER REQUESTS SHALL BE REFERRED TO: TECHNICAL DIRECTOR, EDGEWOOD CHEMICAL BIOLOGICAL CENTER, ATTN: RDCB-DEA-D, ABERDEEN PROVING GROUND, MD 21010-5424.

DESTRUCTION NOTICE - DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.

WARNING - THIS DOCUMENT CONTAINS TECHNICAL DATA WHOSE EXPORT IS RESTRICTED BY THE ARMS EXPORT CONTROL ACT (TITLE 22, U.S.C., SEC 2751, et seq.) OR THE EXPORT ADMINISTRATION ACT OF 1979 (TITLE 50, U.S.C., APP. 2401 et seq.), AS AMENDED. VIOLATIONS OF THESE EXPORT LAWS ARE SUBJECT TO SEVERE CRIMINAL PENALTIES. DISSEMINATE IN ACCORDANCE WITH PROVISIONS OF DOD DIRECTIVE 5230.25.

THIS DOCUMENT CONTAINS INFORMATION EXEMPT FROM MANDATORY DISCLOSURE UNDER THE FOIA.  
**FOR OFFICIAL USE ONLY**

### ALTERED ITEM DRAWING

QTY REQD	DRAWING OR PART NO.	NOMENCLATURE OR MATERIAL	SPECIFICATION	ITEM NO.
PARTS LIST				
NEXT ASSY	UNLESS OTHERWISE SPECIFIED	ORIGINAL DATE (YR-MO-DA)	U.S. ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND EDGEWOOD CHEMICAL BIOLOGICAL CENTER ABERDEEN PROVING GROUND, MARYLAND, 21010-5424	
199-0819	DIMENSIONS ARE IN INCHES TOLERANCES ON: 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005 FRACTIONS ± 1/32 ANGLES ± 0° 30'	13-02-27	<b>DIN RAIL, MODIFIED</b>	
		DRAWN BY: JJC    CHECKER:		
		SUBMITTED:	SIZE: <b>C</b> CAGE CODE: 81361    DWG NO.: 199-0787	
		DESIGN APPROVAL:		
		DRAWING APPROVAL:	SCALE 1/2    SHEET	
		CONTRACT NO.:		
EQUIPMENT CODE NO.				

4

3

2

1

NOTES:

- 1. THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH ASME Y14.100 WITH THE ADDITION OF APPENDICES B THROUGH E.
- 2. THE FOLLOWING ARE MANDATORY WHEN INDICATED BY ■
  - REMOVE BURRS     BREAK SHARP EDGES .010 MAX
  - FILLETS R .010 MAX
  - 125 ALL OVER, EXCEPT AS NOTED
- DIMENSIONS APPLY:
  - BEFORE PLATING OR PAINTING
  - AFTER PLATING
  - AFTER PAINTING
- TOLERANCES ON STOCK MATERIAL SIZES, SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS.
- ASME Y14.5M-1994 APPLIES
- FED-STD-H28 APPLIES

3. IDENTIFICATION OF THE SUGGESTED SOURCE(S) OF SUPPLY HEREON IS NOT TO BE CONSTRUED AS A GUARANTEE OF PRESENT OR CONTINUED AVAILABILITY AS A SOURCE OF SUPPLY FOR THE ITEM.

4. REQUIREMENTS:
- A) MATERIAL: TIN PLATED COPPER
  - B) NYLON HEAT SHRINK INSULATION, COLOR RED
  - C) FOR 8 AWG WIRE
  - D) VOLTS: 600 V

SUGGESTED SOURCES OF SUPPLY			
CONTROL NUMBER	SUPPLIER DATA		
	CAGE CODE	PART NUMBER	NAME AND ADDRESS
199-0793-1	39428	7036K74	MCMASTER-CARR SUPPLY COMPANY 600 COUNTY LINE RD ELMHURST, IL 60126
199-0793-2	39428	7036K82	MCMASTER-CARR SUPPLY COMPANY 600 COUNTY LINE RD ELMHURST, IL 60126

REVISIONS			
LTR	DESCRIPTION	DATE (YR-MO-DA)	APPROVED
-v01	BASELINE RELEASE	13-04-16	SM/MC

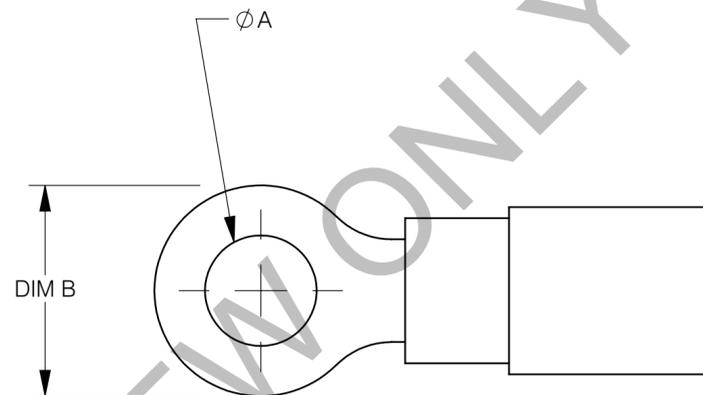


TABLE		
DASH NO.	Ø A	DIM B
-1	3/8 STUD	.82
-2	1/4 STUD	.46

DISTRIBUTION STATEMENT D. DISTRIBUTION AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND U.S. DOD CONTRACTORS ONLY; CRITICAL TECHNOLOGY; DETERMINATION MADE 00-00-00. OTHER REQUESTS SHALL BE REFERRED TO: TECHNICAL DIRECTOR, EDGEWOOD CHEMICAL BIOLOGICAL CENTER, ATTN: RDCB-DEA-D, ABERDEEN PROVING GROUND, MD 21010-5424.

DESTRUCTION NOTICE - DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.

WARNING - THIS DOCUMENT CONTAINS TECHNICAL DATA WHOSE EXPORT IS RESTRICTED BY THE ARMS EXPORT CONTROL ACT (TITLE 22, U.S.C., SEC 2751, et seq.) OR THE EXPORT ADMINISTRATION ACT OF 1979 (TITLE 50, U.S.C., APP. 2401 et seq.), AS AMENDED. VIOLATIONS OF THESE EXPORT LAWS ARE SUBJECT TO SEVERE CRIMINAL PENALTIES. DISSEMINATE IN ACCORDANCE WITH PROVISIONS OF DOD DIRECTIVE 5230.25.

THIS DOCUMENT CONTAINS INFORMATION EXEMPT FROM MANDATORY DISCLOSURE UNDER THE FOIA.  
FOR OFFICIAL USE ONLY

### VENDOR ITEM CONTROL DRAWING

QTY REQD	DRAWING OR PART NO.	NOMENCLATURE OR MATERIAL	SPECIFICATION	ITEM NO.
PARTS LIST				
NEXT ASSY		UNLESS OTHERWISE SPECIFIED	ORIGINAL DATE (YR-MO-DA)	U.S. ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND EDGEWOOD CHEMICAL BIOLOGICAL CENTER ABERDEEN PROVING GROUND, MARYLAND, 21010-5424
199-0813		DIMENSIONS ARE IN INCHES TOLERANCES ON: 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005 FRACTIONS ± 1/32 ANGLES ± 0° 30'	13-04-16	
199-0811			DRAWN BY	CHECKER
			JJC	RING TERMINAL, CRIMP
		SUBMITTED		
		DESIGN APPROVAL		
		DRAWING APPROVAL		SIZE
EQUIPMENT CODE NO.		CONTRACT NO.		C
				CAGE CODE
				81361
				DWG NO.
				199-0793
				SCALE
				2/1
				SHEET
				1

4

3

2

1

NOTES:

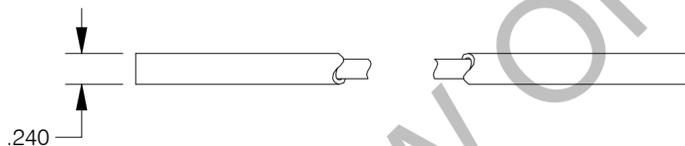
- 1. THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH ASME Y14.100 WITH THE ADDITION OF APPENDICES B THROUGH E.
- 2. THE FOLLOWING ARE MANDATORY WHEN INDICATED BY ■
  - REMOVE BURRS     BREAK SHARP EDGES .010 MAX
  - FILLETS R .010 MAX
  - 125 ALL OVER, EXCEPT AS NOTED
- DIMENSIONS APPLY:
  - BEFORE PLATING OR PAINTING
  - AFTER PLATING
  - AFTER PAINTING
- TOLERANCES ON STOCK MATERIAL SIZES, SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS.
- ASME Y14.5M-1994 APPLIES
- FED-STD-H28 APPLIES

3. IDENTIFICATION OF THE SUGGESTED SOURCE(S) OF SUPPLY HEREON IS NOT TO BE CONSTRUED AS A GUARANTEE OF PRESENT OR CONTINUED AVAILABILITY AS A SOURCE OF SUPPLY FOR THE ITEM.

4. REQUIREMENTS:
- A) PURE COPPER CABLE, 8 AWG
  - B) PVC INSULATION
  - C) AMPS: 57A
  - D) VOLTS: 60V
  - E) TEMPERATURE RANGE: -40° TO +194 °F

SUGGESTED SOURCES OF SUPPLY			
CONTROL NUMBER	SUPPLIER DATA		
	CAGE CODE	PART NUMBER	NAME AND ADDRESS
199-0795-1	39428	6948K891	MCMaster-CARR SUPPLY COMPANY 600 COUNTY LINE RD ELMHURST, IL 60126
199-0795-2	39428	6948K892	MCMaster-CARR SUPPLY COMPANY 600 COUNTY LINE RD ELMHURST, IL 60126

REVISIONS			
LTR	DESCRIPTION	DATE (YR-MO-DA)	APPROVED
-v01	BASELINE RELEASE	13-04-16	SM/MC



DASH NO.	COLOR
-1	BLACK
-2	RED

DISTRIBUTION STATEMENT D. DISTRIBUTION AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND U.S. DOD CONTRACTORS ONLY; CRITICAL TECHNOLOGY; DETERMINATION MADE 00-00-00. OTHER REQUESTS SHALL BE REFERRED TO: TECHNICAL DIRECTOR, EDGEWOOD CHEMICAL BIOLOGICAL CENTER, ATTN: RDCB-DEA-D, ABERDEEN PROVING GROUND, MD 21010-5424.

DESTRUCTION NOTICE - DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.

WARNING - THIS DOCUMENT CONTAINS TECHNICAL DATA WHOSE EXPORT IS RESTRICTED BY THE ARMS EXPORT CONTROL ACT (TITLE 22, U.S.C., SEC 2751, et seq.) OR THE EXPORT ADMINISTRATION ACT OF 1979 (TITLE 50, U.S.C., APP. 2401 et seq.), AS AMENDED. VIOLATIONS OF THESE EXPORT LAWS ARE SUBJECT TO SEVERE CRIMINAL PENALTIES. DISSEMINATE IN ACCORDANCE WITH PROVISIONS OF DOD DIRECTIVE 5230.25.

THIS DOCUMENT CONTAINS INFORMATION EXEMPT FROM MANDATORY DISCLOSURE UNDER THE FOIA.  
FOR OFFICIAL USE ONLY

### VENDOR ITEM CONTROL DRAWING

QTY REQD	DRAWING OR PART NO.	NOMENCLATURE OR MATERIAL	SPECIFICATION	ITEM NO.
		PARTS LIST		
	199-0813	UNLESS OTHERWISE SPECIFIED	U.S. ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND EDGEWOOD CHEMICAL BIOLOGICAL CENTER ABERDEEN PROVING GROUND, MARYLAND, 21010-5424	
		DIMENSIONS ARE IN INCHES TOLERANCES ON: 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005 FRACTIONS ± 1/32 ANGLES ± 0° 30'	<h2>BATTERY CABLE</h2>	
		MATERIAL		
		EQUIPMENT CODE NO.	SIZE <b>C</b>	CAGE CODE 81361
			DWG NO. 199-0795	
			SCALE 1/1	SHEET

4

3

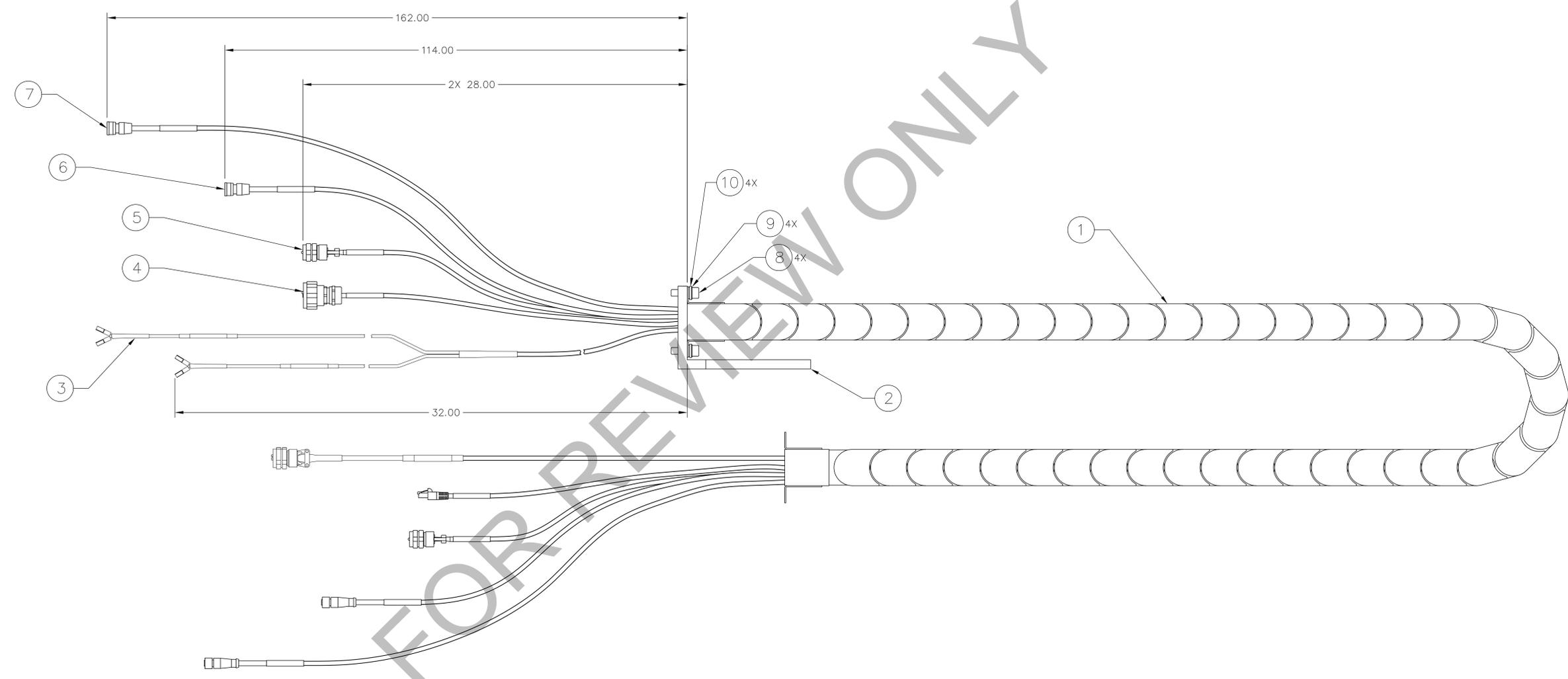
2

1

REVISIONS			
LTR	DESCRIPTION	DATE (YR-MO-DA)	APPROVED
-v02	BASELINE RELEASE, WITH 199-0800, 12-10-09 AND 199-0800, 13-04-03	13-04-03	SM/MC

- NOTES:
- THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH ASME Y14.100 WITH THE ADDITION OF APPENDICES B THROUGH E.
  - THE FOLLOWING ARE MANDATORY WHEN INDICATED BY ■
    - REMOVE BURRS □ BREAK SHARP EDGES .010 MAX
    - FILLETS R .010 MAX.
    - 125° ALL OVER, EXCEPT AS NOTED
- DIMENSIONS APPLY:
- BEFORE PLATING OR PAINTING
  - AFTER PLATING
  - AFTER PAINTING
  - TOLERANCES ON STOCK MATERIAL SIZES, SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS.
  - ASME Y14.5M-1994 APPLIES
  - FED-STD-H28 APPLIES

- SUGGESTED SOURCE(S) OF SUPPLY:  
MCMASTER-CARR SUPPLY COMPANY  
600 COUNTY LINE RD  
ELMHURST, IL 60126  
CAGE CODE: 39428
- COIL CABLES ON EACH END AND SECURE WITH CABLE TIES.
- INSTALL ITEM 4 THROUGH ITEM 1. AFTER INSTALLATION, ASSEMBLE CONNECTOR PROVIDED WITH ITEM 4.



QTY REQD	DRAWING OR PART NO.	NOMENCLATURE OR MATERIAL	SPECIFICATION	ITEM NO.
4	92148A200	WASHER, LOCK, M8, 18-8 STAINLESS STEEL, SEE NOTE 3		10
4	93475A270	WASHER, FLAT, M8 ID X 16MM OD, 18-8 STAINLESS STEEL, SEE NOTE 3		9
4	91292A148	SCREW, CAP, SOCKET HEAD, 18-8 STAINLESS STEEL, M8-1.25 X 25MM LONG, SEE NOTE 3		8
1	199-0908	EC130B, LINEAR TRANSDUCER CABLE, RIGHT		7
1	199-0837	EC130A, LINEAR TRANSDUCER CABLE, LEFT		6
1	199-0825	EC114, PANEL COMMUNICATIONS ENCLOSURE POWER CABLE		5
1	199-0824	EC113, PANEL COMMUNICATIONS ENCLOSURE, ETHERNET CABLE		4
1	199-0808	EC103, LOCKING SOLENOIDS CABLE		3
1	199-4414	BRACKET, LOWER CABLE TRAY		2
1	199-4424	FLEXIBLE CABLE RUN, MODIFIED		1

DISTRIBUTION STATEMENT D. DISTRIBUTION AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND U.S. DOD CONTRACTORS ONLY; CRITICAL TECHNOLOGY; DETERMINATION MADE 00-00-00. OTHER REQUESTS SHALL BE REFERRED TO TECHNICAL DIRECTOR, EDGEWOOD CHEMICAL BIOLOGICAL CENTER, ATTN: RDCB-DEA-D, ABERDEEN PROVING GROUND, MD

DESTRUCTION NOTICE - DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.

WARNING - THIS DOCUMENT CONTAINS TECHNICAL DATA WHOSE EXPORT IS RESTRICTED BY THE ARMS EXPORT CONTROL ACT (TITLE 22, U.S.C., SEC 2751, et. seq.) OR THE EXPORT ADMINISTRATION ACT OF 1979, (TITLE 50, U.S.C., APP. 2401 et. seq.), AS AMENDED. VIOLATIONS OF THESE EXPORT LAWS ARE SUBJECT TO SEVERE CRIMINAL PENALTIES. DISSEMINATE IN ACCORDANCE WITH PROVISIONS OF DOD DIRECTIVE 5230.25.

THIS DOCUMENT CONTAINS INFORMATION EXEMPT FROM MANDATORY DISCLOSURE UNDER THE FOIA.  
FOR OFFICIAL USE ONLY

NEXT ASSY		UNLESS OTHERWISE SPECIFIED		ORIGINAL DATE		PARTS LIST	
		DIMENSIONS ARE IN INCHES		13-03-01		U.S. ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND	
		TOLERANCES ON:		DRAWN BY JJC		EDGEWOOD CHEMICAL BIOLOGICAL CENTER	
		2 PLACE DECIMALS ± .01		SUBMITTED		ABERDEEN PROVING GROUND, MARYLAND, 21010-5424	
		3 PLACE DECIMALS ± .005		DESIGN APPROVAL		NYLATUBE WITH ELECTRICAL CABLES INSTALLED	
		FRACTIONS ± 1/32		DRAWING APPROVAL		SIZE E	
		ANGLES ± 0° 30'		CONTRACT NO.		CAGE CODE 81361	
						DWG NO. 199-0800	
						SCALE NONE	
						SHEET	

NOTES:  
 1. THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH ASME Y14.100 WITH THE ADDITION OF APPENDICES B THROUGH E.

2. THE FOLLOWING ARE MANDATORY WHEN INDICATED BY ■

- REMOVE BURRS     BREAK SHARP EDGES .010 MAX
- FILLETS R .010 MAX.
- <sup>125</sup> ALL OVER, EXCEPT AS NOTED

DIMENSIONS APPLY:

- BEFORE PLATING OR PAINTING
- AFTER PLATING
- AFTER PAINTING
- TOLERANCES ON STOCK MATERIAL SIZES, SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS.
- ASME Y14.5M-1994 APPLIES
- FED-STD-H28 APPLIES

3. ASSEMBLE ITEMS 1 AND 2 IAW MANUFACTURER'S INSTRUCTIONS.

4. STRIP 16 AWG WIRE .62 ± .02, BOTH ENDS.

5. STRIP 22 AWG WIRE 1.25 ± .02, BOTH ENDS. FOLD OVER AND INSERT INTO CONNECTOR PIN. SEE DETAIL B.

6. MARK WITH .15 HIGH CHARACTERS, COLOR BLACK LABEL TO READ:  
 81361-(199-0802)  
 ENE-H-EC100  
 ECO TO HCU

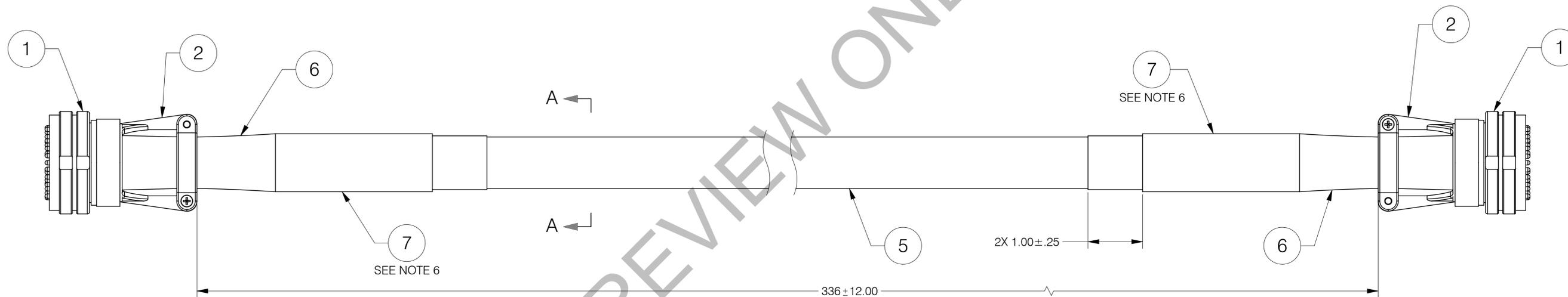
7. CUT BACK EXPOSED SHIELDING.

22 AWG WIRE,  
 PART OF ITEM 4

16 AWG PIN CONNECTOR,  
 SUPPLIED WITH ITEM 1

DETAIL B  
 SEE NOTE 5

SECTION A-A  
 SCALE: NONE



WIRE TABLE									
CONN PIN	CABLE	AWG	COLOR	CONN PIN	CONN PIN	CABLE	AWG	COLOR	CONN PIN
A	ITEM 3	16	YELLOW/ORANGE	A	R	ITEM 3	16	ORANGE/RED	R
B	ITEM 3	16	BLUE/ORANGE	B	S	ITEM 3	16	BLUE/RED	S
C	ITEM 3	16	RED/ORANGE	C	T	ITEM 3	16	BLACK/RED	T
D	ITEM 4	22	BLACK	D	U	ITEM 3	16	BROWN/BLACK	U
E	ITEM 4	22	WHITE	E	V	ITEM 3	16	YELLOW/BLACK	V
F	ITEM 4	22	RED	F	W	ITEM 3	16	ORANGE/BLACK	W
G	ITEM 3	16	BLACK/ORANGE	G	X	ITEM 3	16	BLUE/BLACK	X
H	ITEM 3	16	BROWN/BLUE	H	Y	ITEM 3	16	RED/BLACK	Y
J	ITEM 3	16	YELLOW/BLUE	J	Z	ITEM 3	16	BROWN	Z
K	ITEM 3	16	ORANGE/BLUE	K	a	ITEM 3	16	YELLOW	a
L	ITEM 3	16	RED/BLUE	L	b	N/C			b
M	ITEM 3	16	BLACK/BLUE	M	c	ITEM 3	16	ORANGE	c
N	ITEM 3	16	BROWN/RED	N	d	ITEM 3	16	BLUE	d
P	ITEM 3	16	YELLOW/RED	P	e	ITEM 3	16	RED	e
					f	ITEM 3	16	BLACK	f

QTY REQD	DRAWING OR PART NO.	NOMENCLATURE OR MATERIAL	SPECIFICATION	ITEM NO.
2	M23053/5-112-4	INSULATION SLEEVING, HEAT SHRINK, YELLOW, CLASS 1, 1.969 LG X 1.634 DIA	SAE AMS-DTL-23053/5	7
2	M23053/4-305-0	INSULATION SLEEVING, HEAT SHRINK, DUAL WALL, BLACK, CLASS 3, 1.50 ID X 6.00 ± .25	SAE AMS-DTL-23053/4	6
1	199-0623-4	SLEEVING, WIRE MESH, EXPANDABLE, 3/4 O.D. X 386.00 LG		5
A/R	199-0618	CABLE, SHIELDED, 3 CONDUCTOR, 22 AWG		4
A/R	199-0646	CABLE, 25 CONDUCTOR, 22 AWG		3
2	M85049/38S25W	CONNECTOR, ELECTRICAL, STRAIN RELIEF, STRAIGHT	SAE AS85049/38	2
2	D38999/26WJ29PN	CONNECTOR, ELECTRICAL, PLUG, CIRCULAR	MIL-DTL-38999/26	1

NEXT ASSY		UNLESS OTHERWISE SPECIFIED		ORIGINAL DATE (YR-MO-DA)		U.S. ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND EDGEWOOD CHEMICAL BIOLOGICAL CENTER ABERDEEN PROVING GROUND, MARYLAND, 21010-5424			
199-0801		DIMENSIONS ARE IN INCHES TOLERANCES ON: 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005 FRACTIONS ± 1/32 ANGLES ± 0° 30'		DRAWN BY JJC		CHECKER		EC100, ETHERNET CONTROL UNIT (ECU) TO HCU ELECTRICAL ENCLOSURE (HCU-EE) CABLE	
EQUIPMENT CODE NO.		MATERIAL		DESIGN APPROVAL		DRAWING APPROVAL		SIZE D	CAGE CODE 81361
				CONTRACT NO.				DWG NO. 199-0802	SCALE 1/1
								SHEET	

DISTRIBUTION STATEMENT D. DISTRIBUTION AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND U.S. DOD CONTRACTORS ONLY; CRITICAL TECHNOLOGY; DETERMINATION MADE 00-00-00. OTHER REQUESTS SHALL BE REFERRED TO: TECHNICAL DIRECTOR, EDGEWOOD CHEMICAL BIOLOGICAL CENTER, ATTN: RDCB-DEA-D, ABERDEEN PROVING GROUND, MD 21010-5424.

DESTRUCTION NOTICE - DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.

WARNING - THIS DOCUMENT CONTAINS TECHNICAL DATA WHOSE EXPORT IS RESTRICTED BY THE ARMS EXPORT CONTROL ACT (TITLE 22, U.S.C., SEC 2751, et seq.) OR THE EXPORT ADMINISTRATION ACT OF 1979 (TITLE 50, U.S.C., APP. 2401 et seq.), AS AMENDED. VIOLATIONS OF THESE EXPORT LAWS ARE SUBJECT TO SEVERE CRIMINAL PENALTIES. DISSEMINATE IN ACCORDANCE WITH PROVISIONS OF DOD DIRECTIVE 5230.25.

THIS DOCUMENT CONTAINS INFORMATION EXEMPT FROM MANDATORY DISCLOSURE UNDER THE FOIA. FOR OFFICIAL USE ONLY

8

7

6

5

4

3

2

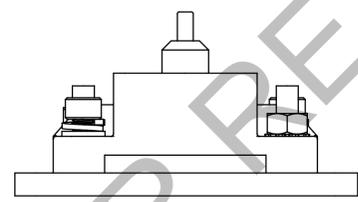
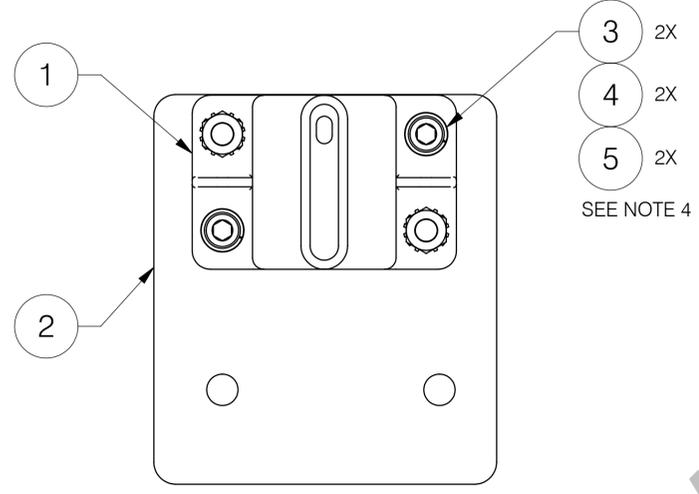
1

REVISIONS			
LTR	DESCRIPTION	DATE (YR-MO-DA)	APPROVED
-v01	BASELINE RELEASE WITH 199-0842, 13-04-23	13-04-23	SM/MC

- NOTES:
- THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH ASME Y14.100 WITH THE ADDITION OF APPENDICES B THROUGH E.
  - THE FOLLOWING ARE MANDATORY WHEN INDICATED BY ■
    - REMOVE BURRS     BREAK SHARP EDGES .010 MAX
    - FILLETS R .010 MAX.
    - 125° ALL OVER, EXCEPT AS NOTED
  - DIMENSIONS APPLY:
    - BEFORE PLATING OR PAINTING
    - AFTER PLATING
    - AFTER PAINTING
  - TOLERANCES ON STOCK MATERIAL SIZES, SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS.
    - ASME Y14.5M-1994 APPLIES
    - FED-STD-H28 APPLIES

3. SUGGESTED SOURCE(S) OF SUPPLY:  
 MCMASTER-CARR SUPPLY COMPANY  
 600 COUNTY LINE RD  
 ELMHURST, IL 60126  
 CAGE CODE: 39428

4. ASSEMBLE ITEM 1 TO ITEM 2 USING ITEMS 3, 4, AND 5. TORQUE ITEM 3 TO 50 IN/lbs ±5%.



FOR REVIEW ONLY

QTY REQD	DRAWING OR PART NO.	NOMENCLATURE OR MATERIAL	SPECIFICATION	ITEM NO.
2	93475A250	WASHER, FLAT, 18-8 CRES, M6		5
2	92148A180	WASHER, LOCK, HELICAL, M6		4
2	91292A137	SCREW, CAP, SOCKET HEAD, 18-8 CRES, M6 X 20		3
1	199-8788	BRACKET, CIRCUIT BREAKER, MK3		2
1	199-0708	CIRCUIT BREAKER, 50 AMP		1

DISTRIBUTION STATEMENT D. DISTRIBUTION AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND U.S. DOD CONTRACTORS ONLY; CRITICAL TECHNOLOGY; DETERMINATION MADE 00-00-00. OTHER REQUESTS SHALL BE REFERRED TO: TECHNICAL DIRECTOR, EDGEWOOD CHEMICAL BIOLOGICAL CENTER, ATTN: RDCB-DEA-D, ABERDEEN PROVING GROUND, MD 21010-5424.

DESTRUCTION NOTICE - DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.

WARNING - THIS DOCUMENT CONTAINS TECHNICAL DATA WHOSE EXPORT IS RESTRICTED BY THE ARMS EXPORT CONTROL ACT (TITLE 22, U.S.C., SEC 2751, et seq.) OR THE EXPORT ADMINISTRATION ACT OF 1979 (TITLE 50, U.S.C., APP. 2401 et seq.), AS AMENDED. VIOLATIONS OF THESE EXPORT LAWS ARE SUBJECT TO SEVERE CRIMINAL PENALTIES. DISSEMINATE IN ACCORDANCE WITH PROVISIONS OF DOD DIRECTIVE 5230.25.

THIS DOCUMENT CONTAINS INFORMATION EXEMPT FROM MANDATORY DISCLOSURE UNDER THE FOIA.  
 FOR OFFICIAL USE ONLY

NEXT ASSY 199-0842	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005 FRACTIONS ± 1/32 ANGLES ± 0° 30'	ORIGINAL DATE 13-04-16	U.S. ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND EDGEWOOD CHEMICAL BIOLOGICAL CENTER ABERDEEN PROVING GROUND, MARYLAND, 21010-5424	
EQUIPMENT CODE NO.	MATERIAL	DRAWN BY JJC	CIRCUIT BREAKER ASSEMBLY	
		CHECKER		
		DESIGN APPROVAL	SIZE D	CAGE CODE 81361
		DRAWING APPROVAL	DWG NO. 199-0812	
		CONTRACT NO.	SCALE 1/1	SHEET

8

7

6

5

4

3

2

1

8

7

6

5

4

3

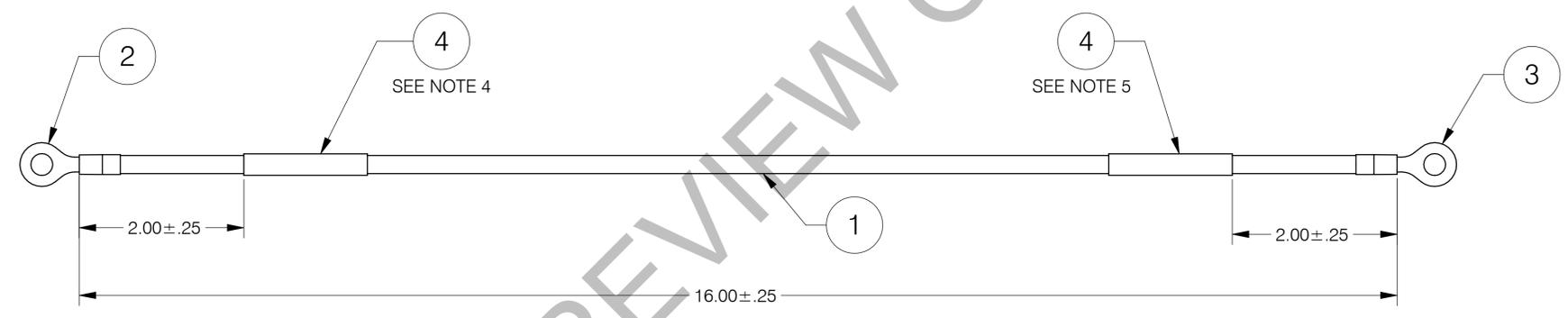
2

1

- NOTES:
- THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH ASME Y14.100 WITH THE ADDITION OF APPENDICES B THROUGH E.
  - THE FOLLOWING ARE MANDATORY WHEN INDICATED BY ■
    - REMOVE BURRS     BREAK SHARP EDGES .010 MAX
    - FILLIETS R .010 MAX.
    - $125^\circ$  ALL OVER, EXCEPT AS NOTED
  - DIMENSIONS APPLY:
    - BEFORE PLATING OR PAINTING
    - AFTER PLATING
    - AFTER PAINTING
  - TOLERANCES ON STOCK MATERIAL SIZES, SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS.
    - ASME Y14.5M-1994 APPLIES
    - FED-STD-H26 APPLIES

- STRIP ITEM 1  $.41 \pm .02$ , BOTH ENDS.
- MARK WITH .15 HIGH CHARACTERS, COLOR BLACK LABEL TO READ:  
81361- (199-0144)  
ENE-H-EC106B  
CB BAT +24V
- MARK WITH .15 HIGH CHARACTERS, COLOR BLACK LABEL TO READ:  
81361- (199-0144)  
ENE-H-EC106B  
ISOL SW POS

REVISIONS			
LTR	DESCRIPTION	DATE (YR-MO-DA)	APPROVED
-v01	BASELINE RELEASE	13-04-17	SM/MC



DISTRIBUTION STATEMENT D. DISTRIBUTION AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND U.S. DOD CONTRACTORS ONLY; CRITICAL TECHNOLOGY; DETERMINATION MADE 00-00-00. OTHER REQUESTS SHALL BE REFERRED TO: TECHNICAL DIRECTOR, EDGEWOOD CHEMICAL BIOLOGICAL CENTER, ATTN: RDCB-DEA-D, ABERDEEN PROVING GROUND, MD 21010-5424.

DESTRUCTION NOTICE - DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.

WARNING - THIS DOCUMENT CONTAINS TECHNICAL DATA WHOSE EXPORT IS RESTRICTED BY THE ARMS EXPORT CONTROL ACT (TITLE 22, U.S.C., SEC 2751, et seq.) OR THE EXPORT ADMINISTRATION ACT OF 1979 (TITLE 50, U.S.C., APP. 2401 et seq.), AS AMENDED. VIOLATIONS OF THESE EXPORT LAWS ARE SUBJECT TO SEVERE CRIMINAL PENALTIES. DISSEMINATE IN ACCORDANCE WITH PROVISIONS OF DOD DIRECTIVE 5230.25.

THIS DOCUMENT CONTAINS INFORMATION EXEMPT FROM MANDATORY DISCLOSURE UNDER THE FOIA.  
**FOR OFFICIAL USE ONLY**

2	M23053/5-107-4	INSULATION, SLEEVING, HEAT SHRINK, YELLOW, CLASS 1, 1.969 LG X .331 DIA	SAE-AMS-DTL-23053/5	4
1	199-0793-2	RING TERMINAL, CRIMP, 1/4 STUD		3
1	199-0793-1	RING TERMINAL, CRIMP, 3/8 STUD		2
1	199-0795-2	BATTERY CABLE, RED		1
QTY REQD	DRAWING OR PART NO.	NOMENCLATURE OR MATERIAL	SPECIFICATION	ITEM NO.

NEXT ASSY		UNLESS OTHERWISE SPECIFIED		ORIGINAL DATE		U.S. ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND EDGEWOOD CHEMICAL BIOLOGICAL CENTER ABERDEEN PROVING GROUND, MARYLAND, 21010-5424					
199-0842		DIMENSIONS ARE IN INCHES TOLERANCES ON: 2 PLACE DECIMALS $\pm .01$ 3 PLACE DECIMALS $\pm .005$ FRACTIONS $\pm 1/32$ ANGLES $\pm 0^\circ 30'$		13-04-17		<b>EC106B, CIRCUIT BREAKER CABLE</b>					
		MATERIAL		DRAWN BY JJC						CHECKER	
				SUBMITTED							
				DESIGN APPROVAL							
EQUIPMENT CODE NO.				DRAWING APPROVAL				SIZE D	CAGE CODE 81361	DWG NO. 199-0813	
				CONTRACT NO.				SCALE 1/1	SHEET		

8

7

6

5

4

3

2

1

NOTES:

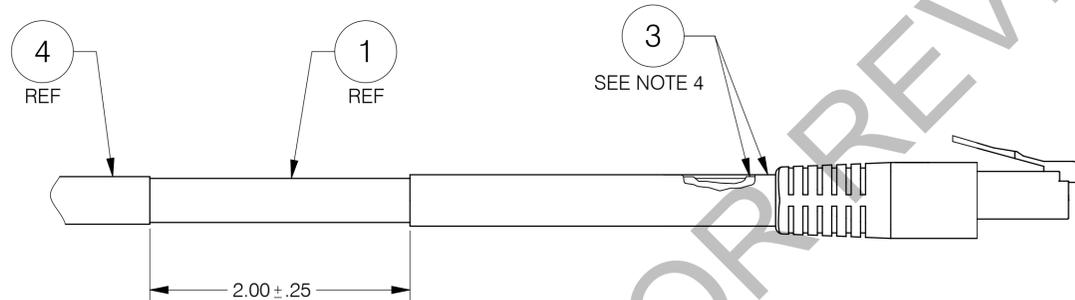
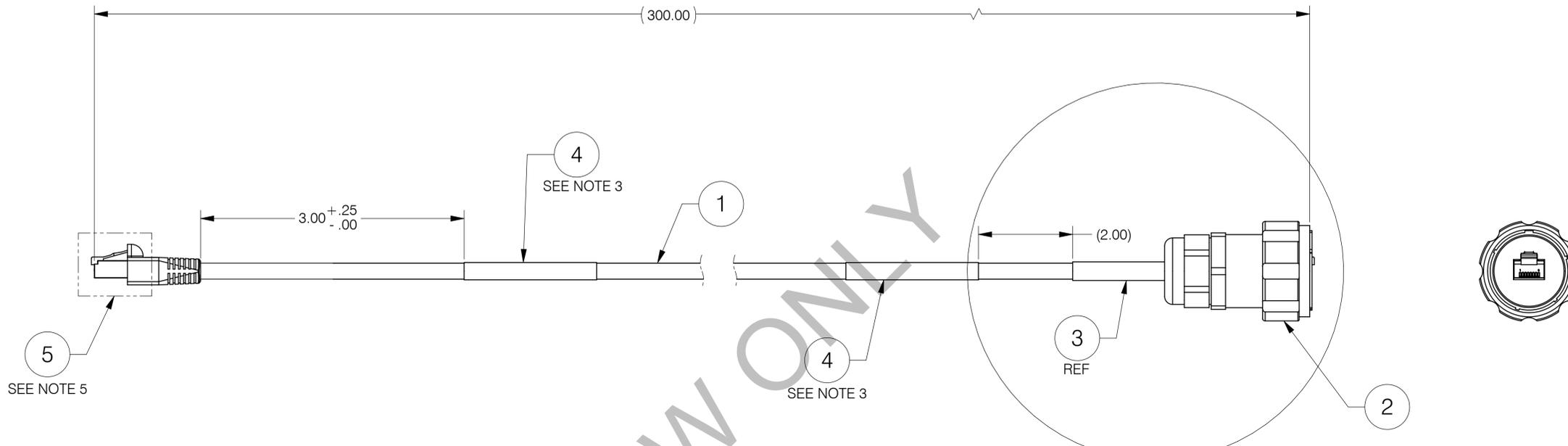
- 1. THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH ASME Y14.100 WITH THE ADDITION OF APPENDICES B THROUGH E.
- 2. THE FOLLOWING ARE MANDATORY WHEN INDICATED BY ■
  - REMOVE BURRS     BREAK SHARP EDGES .010 MAX
  - FILLETS R .010 MAX.
  - <sup>125</sup> ALL OVER, EXCEPT AS NOTED
- DIMENSIONS APPLY:
  - BEFORE PLATING OR PAINTING
  - AFTER PLATING
  - AFTER PAINTING
- TOLERANCES ON STOCK MATERIAL SIZES, SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS.
- ASME Y14.5M-1994 APPLIES
- FED-STD-H26 APPLIES

3. MARK WITH .15 HIGH CHARACTERS, COLOR BLACK LABEL TO READ:  
 81361-(199-0821)  
 ENE-H-EC111  
 PANEL COMM ETHERNET

4. APPLY BOTH ITEMS 3 TO ITEM 1. ASSEMBLE ITEM 2 IN ACCORDANCE WITH MANUFACTURERS INSTRUCTION.

5. APPLY ITEM 5 AROUND CONNECTOR, TO BE REMOVED AT HIGHER ASSEMBLY.

REVISIONS			
LTR	DESCRIPTION	DATE (YR-MO-DA)	APPROVED
-v01	BASELINE RELEASE WITH 199-0821, 13-04-18	13-08-06	SM/MC



DETAIL A  
 SCALE: 2/1  
 ITEM 2 REMOVED

A/R		ELECTRICAL TAPE, COLOR OPTIONAL		5
2	M23053/5-109-4	INSULATION, SLEEVING, HEAT SHRINK, YELLOW, CLASS 1, .829 HIGH X 2.000 LONG	SAE-AMS-DTL-23053/5	4
2	M23053/4-303-0	INSULATION, SLEEVING, HEAT SHRINK, DUAL WALL, BLACK, CLASS 3, .50 I.D. X 2.00 ± .25 LG	SAE-AMS-DTL-23053/4	3
1	199-0663	ETHERNET CONNECTOR, PLUG		2
1	199-0718	ETHERNET CABLE, EC111		1
QTY REQD	DRAWING OR PART NO.	NOMENCLATURE OR MATERIAL	SPECIFICATION	ITEM NO.

PARTS LIST

DISTRIBUTION STATEMENT D. DISTRIBUTION AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND U.S. DOD CONTRACTORS ONLY; CRITICAL TECHNOLOGY; DETERMINATION MADE 00-00-00. OTHER REQUESTS SHALL BE REFERRED TO: TECHNICAL DIRECTOR, EDGEWOOD CHEMICAL BIOLOGICAL CENTER, ATTN: RDCB-DEA-D, ABERDEEN PROVING GROUND, MD 21010-5424.

DESTRUCTION NOTICE - DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.

WARNING - THIS DOCUMENT CONTAINS TECHNICAL DATA WHOSE EXPORT IS RESTRICTED BY THE ARMS EXPORT CONTROL ACT (TITLE 22, U.S.C., SEC 2751, et seq.) OR THE EXPORT ADMINISTRATION ACT OF 1979 (TITLE 50, U.S.C., APP. 2401 et seq.), AS AMENDED. VIOLATIONS OF THESE EXPORT LAWS ARE SUBJECT TO SEVERE CRIMINAL PENALTIES. DISSEMINATE IN ACCORDANCE WITH PROVISIONS OF DOD DIRECTIVE 5230.25.

THIS DOCUMENT CONTAINS INFORMATION EXEMPT FROM MANDATORY DISCLOSURE UNDER THE FOIA. FOR OFFICIAL USE ONLY

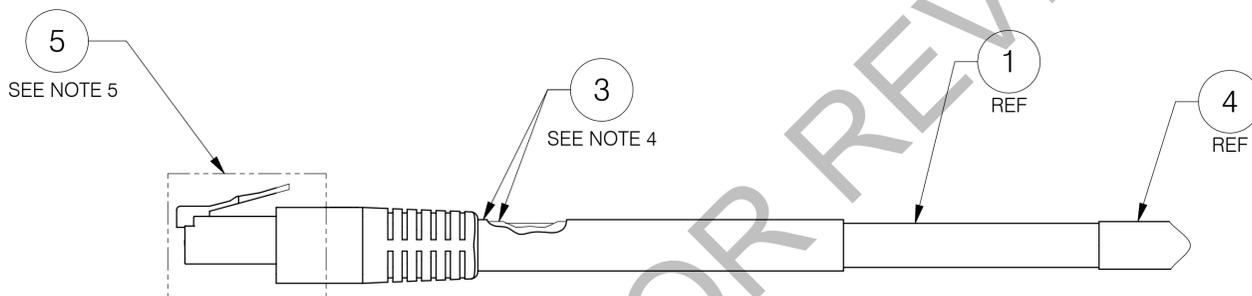
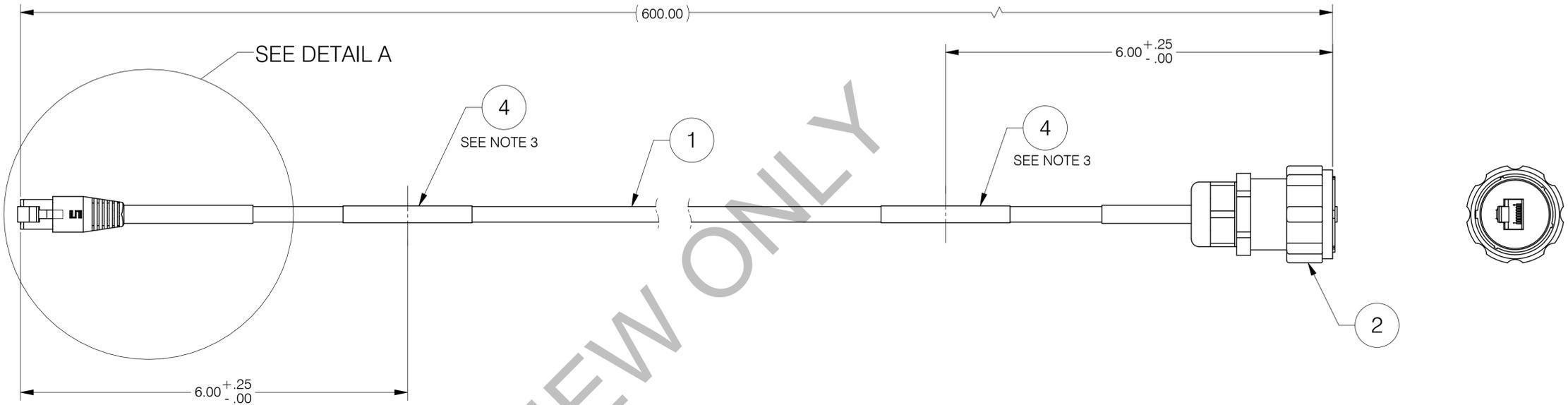
NEXT ASSY	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005 FRACTIONS ± 1/32 ANGLES ± 0° 30'	ORIGINAL DATE 13-03-20	U.S. ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND EDGEWOOD CHEMICAL BIOLOGICAL CENTER ABERDEEN PROVING GROUND, MARYLAND, 21010-5424	
		DRAWN BY JJC	EC111, CABIN ETHERNET CABLE	
		CHECKER		
		DESIGN APPROVAL	SIZE D	CAGE CODE 81361
EQUIPMENT CODE NO.		DRAWING APPROVAL	DWG NO. 199-0821	
		CONTRACT NO.	SCALE 1/1	SHEET

NOTES:

- 1. THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH ASME Y14.100 WITH THE ADDITION OF APPENDICES B THROUGH E.
- 2. THE FOLLOWING ARE MANDATORY WHEN INDICATED BY ■
  - REMOVE BURRS     BREAK SHARP EDGES .010 MAX
  - FILLETS R .010 MAX.
  - $125^\circ$  ALL OVER, EXCEPT AS NOTED
- DIMENSIONS APPLY:
  - BEFORE PLATING OR PAINTING
  - AFTER PLATING
  - AFTER PAINTING
- TOLERANCES ON STOCK MATERIAL SIZES, SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS.
- ASME Y14.5M-1994 APPLIES
- FED-STD-H28 APPLIES

3. MARK WITH .15 HIGH CHARACTERS, COLOR BLACK LABEL TO READ:  
 81361-(199-0824)  
 ENE-H-EC113  
 PANEL COMM ETHERNET

- 4. APPLY BOTH ITEMS 3 TO EACH END OF ITEM 1. ASSEMBLE ITEM 2 IN ACCORDANCE WITH MANUFACTURERS INSTRUCTION.
- 5. APPLY ITEM 5 AROUND CONNECTOR, TO BE REMOVED AT HIGHER ASSEMBLY.
- 6. ONE UNASSEMBLED ITEM 2 SHALL BE PLACED IN A ZIP TOP BAG. CONNECTOR TO BE ASSEMBLED AT HIGHER ASSEMBLY.



DETAIL A  
 SCALE: 2/1

DISTRIBUTION STATEMENT D. DISTRIBUTION AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND U.S. DOD CONTRACTORS ONLY; CRITICAL TECHNOLOGY; DETERMINATION MADE 00-00-00. OTHER REQUESTS SHALL BE REFERRED TO: TECHNICAL DIRECTOR, EDGEWOOD CHEMICAL BIOLOGICAL CENTER, ATTN: RDCB-DEA-D, ABERDEEN PROVING GROUND, MD 21010-5424.

DESTRUCTION NOTICE - DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.

WARNING - THIS DOCUMENT CONTAINS TECHNICAL DATA WHOSE EXPORT IS RESTRICTED BY THE ARMS EXPORT CONTROL ACT (TITLE 22, U.S.C., SEC 2751, et seq.) OR THE EXPORT ADMINISTRATION ACT OF 1979 (TITLE 50, U.S.C., APP. 2401 et seq.), AS AMENDED. VIOLATIONS OF THESE EXPORT LAWS ARE SUBJECT TO SEVERE CRIMINAL PENALTIES. DISSEMINATE IN ACCORDANCE WITH PROVISIONS OF DOD DIRECTIVE 5230.25.

THIS DOCUMENT CONTAINS INFORMATION EXEMPT FROM MANDATORY DISCLOSURE UNDER THE FOIA. FOR OFFICIAL USE ONLY

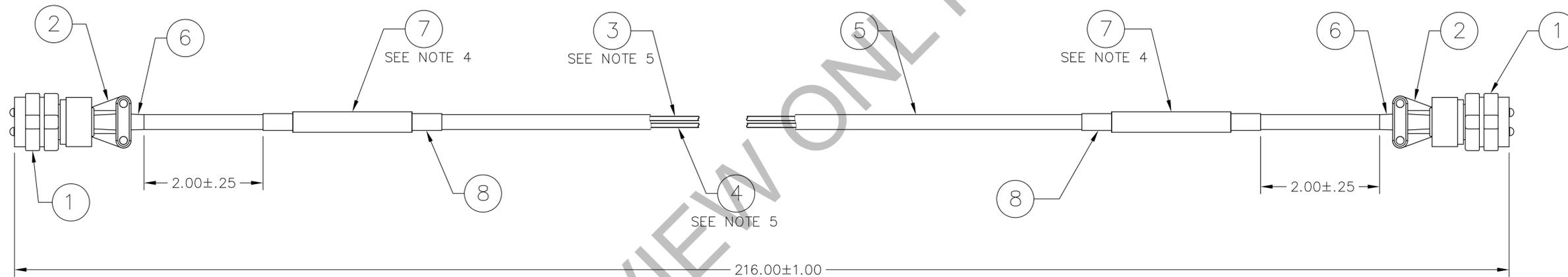
REVISIONS			
LTR	DESCRIPTION	DATE (YR-MO-DA)	APPROVED
-v01	BASELINE RELEASE WITH 199-0824, 13-04-18	13-04-22	SM/MC

A/R		NOMENCLATURE OR MATERIAL	SPECIFICATION	ITEM NO.
		ELECTRICAL TAPE, COLOR OPTIONAL		5
2	M23053/5-109-4	INSULATION, SLEEVING, HEAT SHRINK, YELLOW, CLASS 1, .829 HIGH X 1.969 LONG	SAE-AMS-DTL-23053/5	4
4	M23053/4-303-0	INSULATION, SLEEVING, HEAT SHRINK, DUAL WALL, BLACK, CLASS 3, .50 I.D. X 2.00 ± .25 LG	SAE-AMS-DTL-23053/4	3
2	199-0663	ETHERNET CONNECTOR, PLUG		2
1	199-0719	ETHERNET CABLE, EC113		1
QTY REQD	DRAWING OR PART NO.	NOMENCLATURE OR MATERIAL	SPECIFICATION	ITEM NO.

NEXT ASSY 199-0800		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005 FRACTIONS ± 1/32 ANGLES ± 0° 30'		ORIGINAL DATE 13-03-20		U.S. ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND EDGEWOOD CHEMICAL BIOLOGICAL CENTER ABERDEEN PROVING GROUND, MARYLAND, 21010-5424			
EQUIPMENT CODE NO.		MATERIAL		DRAWN BY JJC		CHECKER		EC113, PANEL COMMUNICATIONS ENCLOSURE, ETHERNET CABLE	
				SUBMITTED					
				DESIGN APPROVAL					
				DRAWING APPROVAL					
				CONTRACT NO.				SIZE D	CAGE CODE 81361
								DWG NO. 199-0824	
								SCALE 1/1	SHEET

REVISIONS			
LTR	DESCRIPTION	DATE (YR-MO-DA)	APPROVED
-v01	BASELINE RELEASE	13-08-06	SM/MC

- NOTES:
- THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH ASME Y14.100 WITH THE ADDITION OF APPENDICES B THROUGH E.
  - THE FOLLOWING ARE MANDATORY WHEN INDICATED BY ■
    - REMOVE BURRS □ BREAK SHARP EDGES .010 MAX
    - FILLETS R .010 MAX.
    - 125° ALL OVER, EXCEPT AS NOTED
 DIMENSIONS APPLY:
    - BEFORE PLATING OR PAINTING
    - AFTER PLATING
    - AFTER PAINTING
 □ TOLERANCES ON STOCK MATERIAL SIZES, SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS.
    - ASME Y14.5M-1994 APPLIES
    - FED-STD-H28 APPLIES
  - ASSEMBLE ITEMS 1 AND 2 IAW MANUFACTURER'S INSTRUCTIONS.
  - MARK WITH .15 HIGH CHARACTERS, COLOR BLACK LABEL TO READ:  
81361-(199-0825)  
ENE-H-EC114  
PANEL COMM PWR
  - STRIP ITEMS 3 AND 4 .62±.02 BOTH ENDS.



SCHEMATIC DIAGRAM

QTY REQD	DRAWING OR PART NO.	NOMENCLATURE OR MATERIAL	SPECIFICATION	ITEM NO.
2	M23053/4-302-0	INSULATION SLEEVING, HEAT SHRINK, DUAL WALL, BLACK, CLASS 3, .25 ID X 3.00±.25 LG	SAE AMS-DTL-23053/4	8
2	M23053/5-107-4	INSULATION SLEEVING, HEAT SHRINK, YELLOW, CLASS 1, 1.969 LG X .331 DIA	SAE AMS-DTL-23053/5	7
2	M23053/4-302-0	INSULATION SLEEVING, HEAT SHRINK, DUAL WALL, BLACK, CLASS 3, .25 ID X 2.00±.25 LG	SAE AMS-DTL-23053/4	6
A/R	199-0623-1	SLEEVING, WIRE MESH, EXPANDABLE, 1/8 ID		5
1	HP3-EXBJE0	WIRE, HOOK-UP, TYPE E (600 VOLT), PTFE, 16 AWG, COLOR BLACK, 216.00±1.00 LONG	NEMA HP3	4
1	HP3-EXBJE2	WIRE, HOOK-UP, TYPE E (600 VOLT), PTFE, 16 AWG, COLOR RED, 216.00±1.00 LONG	NEMA HP3	3
1	M85049/38S11W	CONNECTOR, ELECTRICAL, STRAIN RELIEF, STRAIGHT	SAE AS85049/38	2
1	D38999/26WB2PN	CONNECTOR, ELECTRICAL, PLUG, CIRCULAR	MIL-DTL-38999/26	1

PARTS LIST

DISTRIBUTION STATEMENT D. DISTRIBUTION AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND U.S. DOD CONTRACTORS ONLY; (FILL IN REASON); DATE OF DETERMINATION: 00-00-00. OTHER REQUESTS SHALL BE REFERRED TO: TECHNICAL DIRECTOR, EDGEWOOD CHEMICAL BIOLOGICAL CENTER, ATTN: RDCB-DEA-D, ABERDEEN PROVING GROUND, MD 21010-5424.

DESTRUCTION NOTICE - DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.

WARNING - THIS DOCUMENT CONTAINS TECHNICAL DATA WHOSE EXPORT IS RESTRICTED BY THE ARMS EXPORT CONTROL ACT (TITLE 22, U.S.C., SEC 2751, et. seq.) OR THE EXPORT ADMINISTRATION ACT OF 1979 (TITLE 50, U.S.C., APP. 2401 et. seq.), AS AMENDED. VIOLATIONS OF THESE EXPORT LAWS ARE SUBJECT TO SEVERE CRIMINAL PENALTIES. DISSEMINATE IN ACCORDANCE WITH PROVISIONS OF DOD DIRECTIVE 5230.25.

THIS DOCUMENT CONTAINS INFORMATION EXEMPT FROM MANDATORY DISCLOSURE UNDER THE FOIA.  
FOR OFFICIAL USE ONLY

NEXT ASSY 199-0800	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005 FRACTIONS ± 1/32 ANGLES ± 0° 30'	ORIGINAL DATE (YR-MO-DA) 13-04-03	U.S. ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND EDGEWOOD CHEMICAL BIOLOGICAL CENTER ABERDEEN PROVING GROUND, MARYLAND, 21010-5424		
		DRAWN BY JJC	CHECKER	EC114, COMMUNICATIONS ENCLOSURE POWER CABLE	
		SUBMITTED			
		DESIGN APPROVAL		SIZE D	CAGE CODE 81361
EQUIPMENT CODE NO.		DRAWING APPROVAL		DWG NO. 199-0825	
		CONTRACT NO.		SCALE 1/1	SHEET

8

7

6

5

4

3

2

1

NOTES:

1. THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH ASME Y14.100 WITH THE ADDITION OF APPENDICES B THROUGH E.

2. THE FOLLOWING ARE MANDATORY WHEN INDICATED BY ■

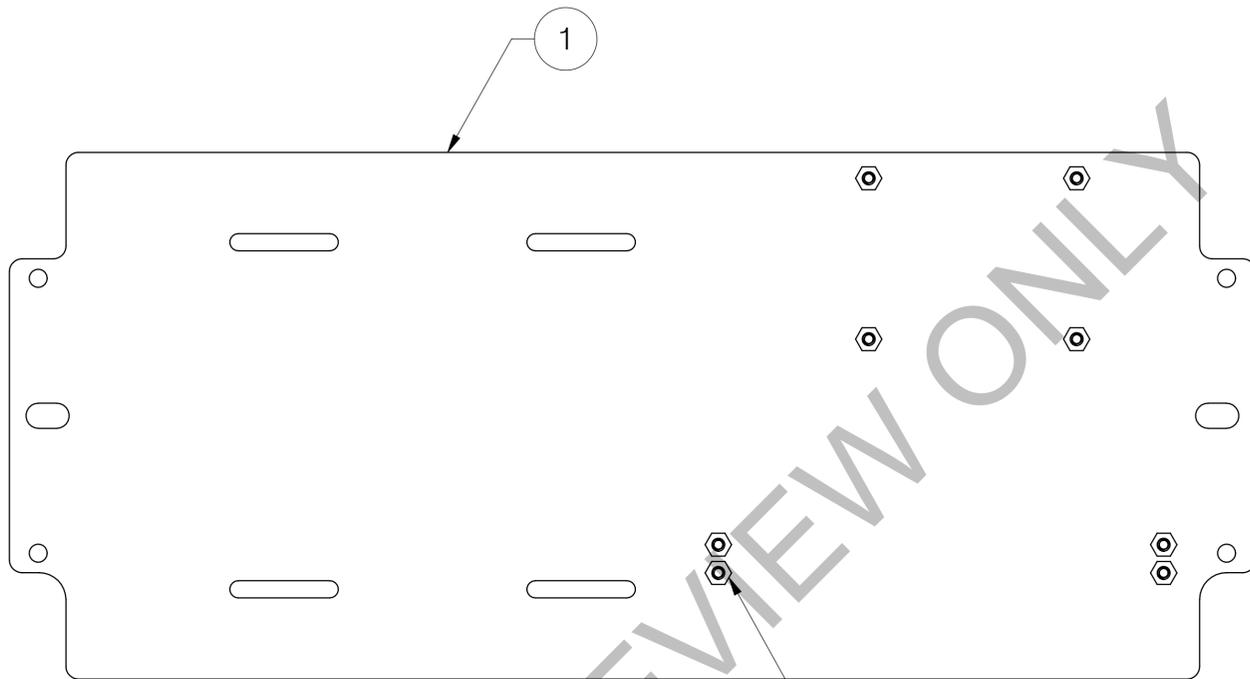
- REMOVE BURRS     BREAK SHARP EDGES .010 MAX
- FILLETS R .010 MAX.
- $125^\circ$  ALL OVER, EXCEPT AS NOTED

DIMENSIONS APPLY:

- BEFORE PLATING OR PAINTING
- AFTER PLATING
- AFTER PAINTING
- TOLERANCES ON STOCK MATERIAL SIZES, SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS.
- ASME Y14.5M-1994 APPLIES
- FED-STD-H28 APPLIES

3. INSTALL ITEM 2 INTO ITEM 1 IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

4. SUGGESTED SOURCE OF SUPPLY:  
MCMASTER-CARR SUPPLY COMPANY  
600 COUNTY LINE RD  
ELMHURST, IL 60126  
CAGE CODE: 39428



REVISIONS			
LTR	DESCRIPTION	DATE (YR-MO-DA)	APPROVED
-v01	BASELINE RELEASE WITH 199-0827, 13-04-16	13-04-30	SM/MC
Av01	199-0744, 13-07-09	13-07-25	SM/MC

DISTRIBUTION STATEMENT D. DISTRIBUTION AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND U.S. DOD CONTRACTORS ONLY; CRITICAL TECHNOLOGY; DETERMINATION MADE 00-00-00. OTHER REQUESTS SHALL BE REFERRED TO: TECHNICAL DIRECTOR, EDGEWOOD CHEMICAL BIOLOGICAL CENTER, ATTN: RDCB-DEA-D, ABERDEEN PROVING GROUND, MD 21010-5424.

DESTRUCTION NOTICE - DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.

WARNING - THIS DOCUMENT CONTAINS TECHNICAL DATA WHOSE EXPORT IS RESTRICTED BY THE ARMS EXPORT CONTROL ACT (TITLE 22, U.S.C., SEC 2751, et seq.) OR THE EXPORT ADMINISTRATION ACT OF 1979 (TITLE 50, U.S.C., APP. 2401 et seq.), AS AMENDED. VIOLATIONS OF THESE EXPORT LAWS ARE SUBJECT TO SEVERE CRIMINAL PENALTIES. DISSEMINATE IN ACCORDANCE WITH PROVISIONS OF DOD DIRECTIVE 5230.25.

THIS DOCUMENT CONTAINS INFORMATION EXEMPT FROM MANDATORY DISCLOSURE UNDER THE FOIA.  
FOR OFFICIAL USE ONLY

8	93090A230	STANDOFF, CLINCH STYLE, 6-32 X .250 LG, .211 O.D., SEE NOTE 4		2
1	199-0744	PLATE, COMM BOX, MODIFIED		1
QTY REQD	DRAWING OR PART NO.	NOMENCLATURE OR MATERIAL	SPECIFICATION	ITEM NO.

NEXT ASSY		UNLESS OTHERWISE SPECIFIED		ORIGINAL DATE (YR-MO-DA)		U.S. ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND EDGEWOOD CHEMICAL BIOLOGICAL CENTER ABERDEEN PROVING GROUND, MARYLAND, 21010-5424			
199-0826		DIMENSIONS ARE IN INCHES TOLERANCES ON: 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005 FRACTIONS ± 1/32 ANGLES ± 0° 30'		13-04-30		PCE PLATE ASSEMBLY			
		MATERIAL		DRAWN BY: JJC					
				DESIGN APPROVAL:					
				DRAWING APPROVAL:					
EQUIPMENT CODE NO.				CONTRACT NO.		SIZE: D	CAGE CODE: 81361	DWG NO. 199-0827	
						SCALE 1/1		SHEET	

NOTES:

- THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH ASME Y14.100 WITH THE ADDITION OF APPENDICES B THROUGH E.
- THE FOLLOWING ARE MANDATORY WHEN INDICATED BY ■
  - REMOVE BURRS     BREAK SHARP EDGES .010 MAX
  - FILLETS R .010 MAX.
  - $125^\circ$  ALL OVER, EXCEPT AS NOTED
- INSTALL CRIMP CONTACTS (SUPPLIED WITH ITEM 2) IAW MANUFACTURERS INSTRUCTIONS. CONTACT INSTALLATION IS REQUIRED IN UNUSED SPACES
- STRIP GRAY, GREEN, BLUE, AND BROWN WIRES  $.62 \pm .06$  CUT AND REMOVE YELLOW, PINK, RED, AND WHITE WIRE PRIOR TO ASSEMBLY OF ITEM 2.
- MARK WITH .15 HIGH CHARACTERS, COLOR BLACK LABEL TO READ:  
81361-(199-0837)  
ENE-H-EC130A  
LEFT LINEAR TRANS
- STRIP LENGTH IS 5/8.

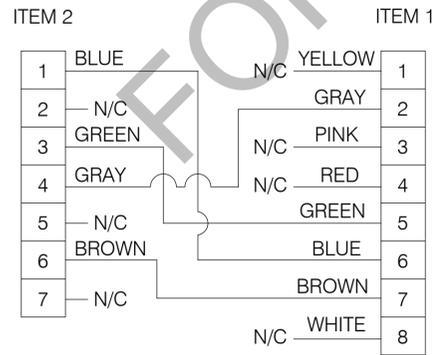
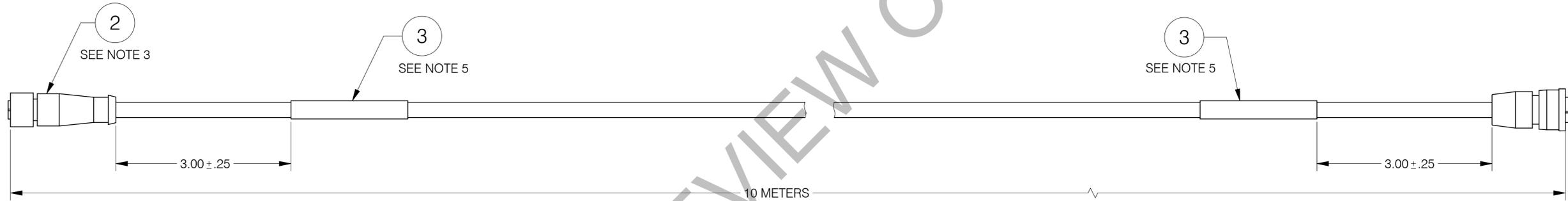
DISTRIBUTION STATEMENT D. DISTRIBUTION AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND U.S. DOD CONTRACTORS ONLY; CRITICAL TECHNOLOGY; DETERMINATION MADE 00-00-00. OTHER REQUESTS SHALL BE REFERRED TO: TECHNICAL DIRECTOR, EDGEWOOD CHEMICAL BIOLOGICAL CENTER, ATTN: RDCB-DEA-D, ABERDEEN PROVING GROUND, MD 21010-5424.

DESTRUCTION NOTICE - DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.

WARNING - THIS DOCUMENT CONTAINS TECHNICAL DATA WHOSE EXPORT IS RESTRICTED BY THE ARMS EXPORT CONTROL ACT (TITLE 22, U.S.C., SEC 2751, et seq.) OR THE EXPORT ADMINISTRATION ACT OF 1979 (TITLE 50, U.S.C., APP. 2401 et seq.), AS AMENDED. VIOLATIONS OF THESE EXPORT LAWS ARE SUBJECT TO SEVERE CRIMINAL PENALTIES. DISSEMINATE IN ACCORDANCE WITH PROVISIONS OF DOD DIRECTIVE 5230.25.

THIS DOCUMENT CONTAINS INFORMATION EXEMPT FROM MANDATORY DISCLOSURE UNDER THE FOIA. FOR OFFICIAL USE ONLY

REVISIONS			
LTR	DESCRIPTION	DATE (YR-MO-DA)	APPROVED
-v01	BASELINE RELEASE	13-03-12	SM/MC
-v02	UPDATED NOTES 4 AND 5; ADDED NOTE 6; UPDATED DRAWING PICTORIALY	13-08-06	SM/MC



WIRING SCHEMATIC

A/R	MS23053/5-107-4	INSULATION SLEEVING, HEAT SHRINK, YELLOW, 1.969 WIDE X .331 HIGH	SAE-AMS-DTL-23053/3	3
1	199-0649	CONNECTOR, TRANSDUCER CABLE		2
1	199-0720	TRANSDUCER CABLE		1
QTY REQD	DRAWING OR PART NO.	NOMENCLATURE OR MATERIAL	SPECIFICATION	ITEM NO.

PARTS LIST

NEXT ASSY 199-0800	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005 FRACTIONS ± 1/32 ANGLES ± 0° 30'	ORIGINAL DATE 13-03-12 DRAWN BY JJC CHECKER	U.S. ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND EDGEWOOD CHEMICAL BIOLOGICAL CENTER ABERDEEN PROVING GROUND, MARYLAND, 21010-5424	
EQUIPMENT CODE NO.	MATERIAL	DESIGN APPROVAL	<b>EC130A, LINEAR TRANSDUCER CABLE LEFT</b>	
		DRAWING APPROVAL		
		CONTRACT NO.	SIZE D	CAGE CODE 81361
			DWG NO. 199-0837	
			SCALE 1/1	SHEET

4

3

2

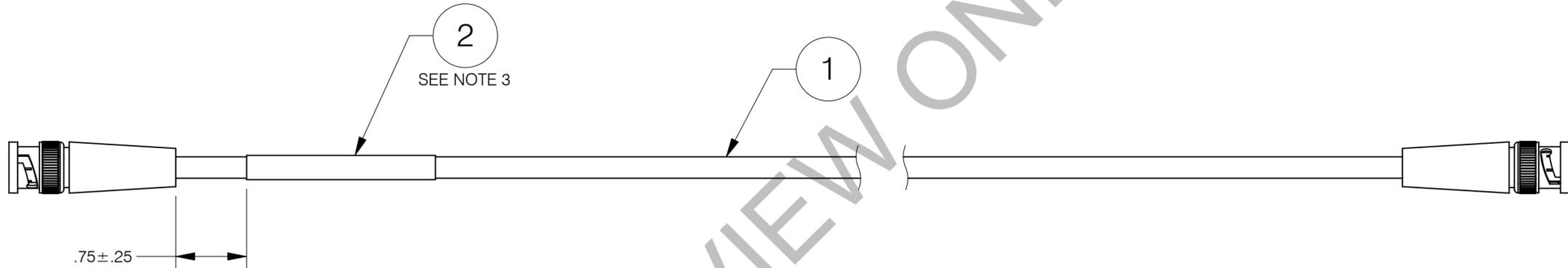
1

NOTES:

- 1. THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH ASME Y14.100 WITH THE ADDITION OF APPENDICES B THROUGH E.
- 2. THE FOLLOWING ARE MANDATORY WHEN INDICATED BY ■
  - REMOVE BURRS     BREAK SHARP EDGES .010 MAX
  - FILLETS R .010 MAX
  - 125 ALL OVER, EXCEPT AS NOTED
- DIMENSIONS APPLY:
  - BEFORE PLATING OR PAINTING
  - AFTER PLATING
  - AFTER PAINTING
- TOLERANCES ON STOCK MATERIAL SIZES, SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS.
- ASME Y14.5M-1994 APPLIES
- FED-STD-H28 APPLIES

3. MARK WITH .15 HIGH CHARACTERS, COLOR BLACK.  
 LABEL TO READ:  
 199-0839-EC132  
 SPEAKERPHONE TO PI

REVISIONS			
LTR	DESCRIPTION	DATE (YR-MO-DA)	APPROVED



DISTRIBUTION STATEMENT D. DISTRIBUTION AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND U.S. DOD CONTRACTORS ONLY; CRITICAL TECHNOLOGY; DETERMINATION MADE 00-00-00. OTHER REQUESTS SHALL BE REFERRED TO: TECHNICAL DIRECTOR, EDGEWOOD CHEMICAL BIOLOGICAL CENTER, ATTN: RDCB-DEA-D, ABERDEEN PROVING GROUND, MD 21010-5424.

DESTRUCTION NOTICE - DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.

WARNING - THIS DOCUMENT CONTAINS TECHNICAL DATA WHOSE EXPORT IS RESTRICTED BY THE ARMS EXPORT CONTROL ACT (TITLE 22, U.S.C., SEC 2751, et seq.) OR THE EXPORT ADMINISTRATION ACT OF 1979 (TITLE 50, U.S.C., APP. 2401 et seq.), AS AMENDED. VIOLATIONS OF THESE EXPORT LAWS ARE SUBJECT TO SEVERE CRIMINAL PENALTIES. DISSEMINATE IN ACCORDANCE WITH PROVISIONS OF DOD DIRECTIVE 5230.25.

THIS DOCUMENT CONTAINS INFORMATION EXEMPT FROM MANDATORY DISCLOSURE UNDER THE FOIA.  
 FOR OFFICIAL USE ONLY

A/R	DRAWING OR PART NO.	NOMENCLATURE OR MATERIAL	SPECIFICATION	ITEM NO.
	MS23053/5-107-4	INSULATION SLEEVING, HEAT SHRINK, YELLOW, 1.969 W X .331 LG	SAE-AMS-DTL-23053/5	1
1	199-0853	COAXIAL CORD, BNC TO BNC		1

PARTS LIST				
NEXT ASSY	UNLESS OTHERWISE SPECIFIED	ORIGINAL DATE (YR-MO-DA)	12-12-07	
	DIMENSIONS ARE IN INCHES	DRAWN BY	JJC	
	TOLERANCES ON:	CHECKER		
	2 PLACE DECIMALS ± .01	SUBMITTED		
	3 PLACE DECIMALS ± .005	DESIGN APPROVAL		
	FRACTIONS ± 1/32	DRAWING APPROVAL		
	ANGLES ± 0° 30'	CONTRACT NO.		
EQUIPMENT CODE NO.	MATERIAL		SIZE	CAGE CODE
			C	81361
			DWG NO.	199-0839
			SCALE	1/1
			SHEET	

U.S. ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND  
 EDGEWOOD CHEMICAL BIOLOGICAL CENTER  
 ABERDEEN PROVING GROUND, MARYLAND, 21010-5424

## EC132, SPEAKERPHONE TO CDU CABLE

SCALE 1/1    SHEET

4

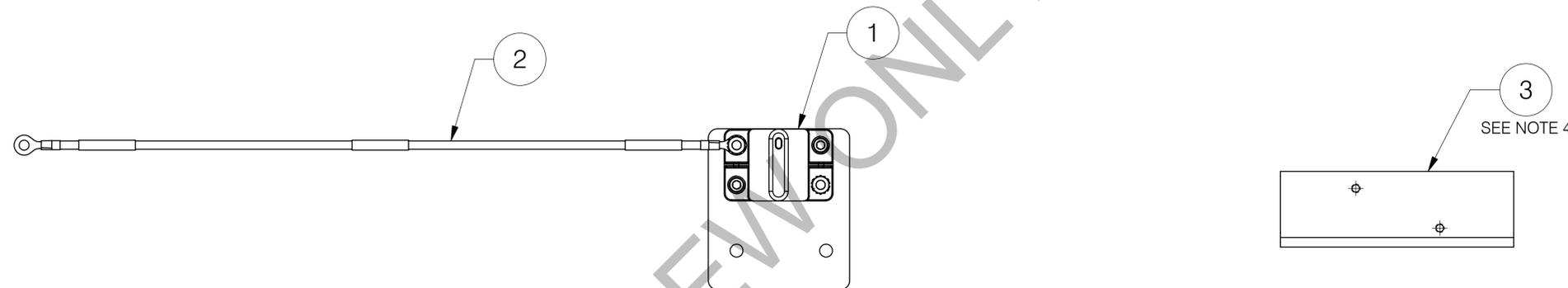
3

2

1

REVISIONS			
LTR	DESCRIPTION	DATE (YR-MO-DA)	APPROVED
-v01	BASELINE RELEASE WITH 199-0842, 13-04-23	13-04-23	SM/MC

- NOTES:
- THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH ASME Y14.100 WITH THE ADDITION OF APPENDICES B THROUGH E.
  - THE FOLLOWING ARE MANDATORY WHEN INDICATED BY ■
    - REMOVE BURRS     BREAK SHARP EDGES .010 MAX
    - FILLETS R .010 MAX.
    - 125° ALL OVER, EXCEPT AS NOTED
  - DIMENSIONS APPLY:
    - BEFORE PLATING OR PAINTING
    - AFTER PLATING
    - AFTER PAINTING
  - TOLERANCES ON STOCK MATERIAL SIZES, SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS.
    - ASME Y14.5M-1994 APPLIES
    - FED-STD-H28 APPLIES
  - ASSEMBLE ITEM 2 ONTO ITEM 1. TORQUE NUT OF ITEM 1 TO 50 IN/lbs ±5%.
  - INSERT ITEM 3 INTO ZIP TOP BAG.



FOR REVIEW ONLY

DISTRIBUTION STATEMENT D. DISTRIBUTION AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND U.S. DOD CONTRACTORS ONLY; CRITICAL TECHNOLOGY; DETERMINATION MADE 00-00-00. OTHER REQUESTS SHALL BE REFERRED TO: TECHNICAL DIRECTOR, EDGEWOOD CHEMICAL BIOLOGICAL CENTER, ATTN: RDCB-DEA-D, ABERDEEN PROVING GROUND, MD 21010-5424.

DESTRUCTION NOTICE - DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.

WARNING - THIS DOCUMENT CONTAINS TECHNICAL DATA WHOSE EXPORT IS RESTRICTED BY THE ARMS EXPORT CONTROL ACT (TITLE 22, U.S.C., SEC 2751, et seq.) OR THE EXPORT ADMINISTRATION ACT OF 1979 (TITLE 50, U.S.C., APP. 2401 et seq.), AS AMENDED. VIOLATIONS OF THESE EXPORT LAWS ARE SUBJECT TO SEVERE CRIMINAL PENALTIES. DISSEMINATE IN ACCORDANCE WITH PROVISIONS OF DOD DIRECTIVE 5230.25.

THIS DOCUMENT CONTAINS INFORMATION EXEMPT FROM MANDATORY DISCLOSURE UNDER THE FOIA.  
**FOR OFFICIAL USE ONLY**

1	199-7298	BRACKET, CIRCUIT BREAKER, MK2	3	
1	199-0813	EC106B, CIRCUIT BREAKER CABLE	2	
1	199-0812	CIRCUIT BREAKER ASSEMBLY	1	
QTY REQD	DRAWING OR PART NO.	NOMENCLATURE OR MATERIAL	SPECIFICATION	ITEM NO.

NEXT ASSY		UNLESS OTHERWISE SPECIFIED		ORIGINAL DATE (YR-MO-DA)		U.S. ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND EDGEWOOD CHEMICAL BIOLOGICAL CENTER ABERDEEN PROVING GROUND, MARYLAND, 21010-5424			
		DIMENSIONS ARE IN INCHES		13-04-17		<b>EC106B CABLE AND BRACKET ASSEMBLY</b>			
		TOLERANCES ON:		DRAWN BY: JJC    CHECKER: SUBMITTED: DESIGN APPROVAL:					
		2 PLACE DECIMALS ± .01		DRAWING APPROVAL: CONTRACT NO:		SIZE	CAGE CODE	DWG NO.	
		3 PLACE DECIMALS ± .005				D	81361	199-0842	
		FRACTIONS ± 1/32				SCALE		SHEET	
		ANGLES ± 0° 30'				1/2			
EQUIPMENT CODE NO.		MATERIAL							

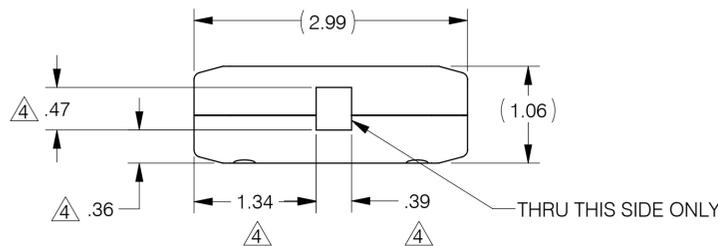
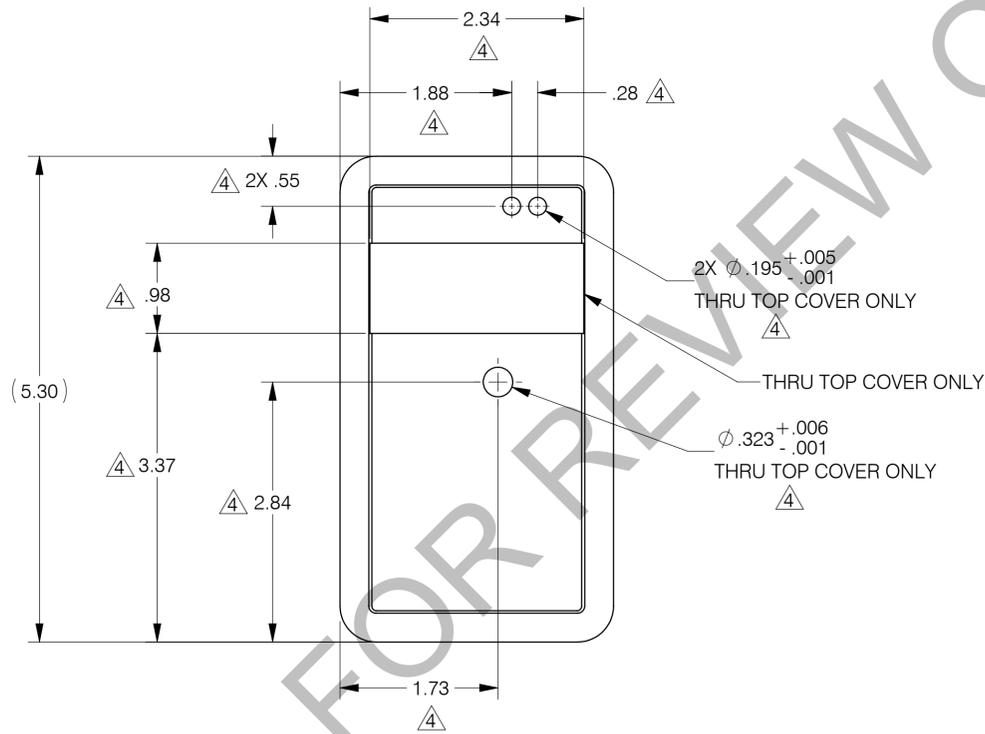
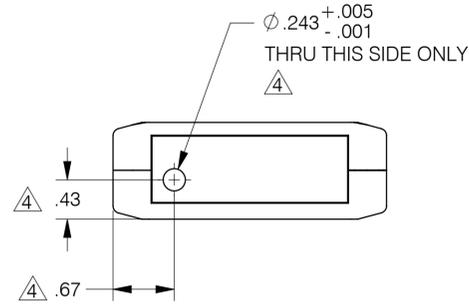


- NOTES:
- THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH ASME Y14.100 WITH THE ADDITION OF APPENDICES B THROUGH E.
  - THE FOLLOWING ARE MANDATORY WHEN INDICATED BY ■
    - REMOVE BURRS
    - BREAK SHARP EDGES .010 MAX
    - FILLETS R .010 MAX.
    - 125 ALL OVER, EXCEPT AS NOTED
- DIMENSIONS APPLY:
- BEFORE PLATING OR PAINTING
  - AFTER PLATING
  - AFTER PAINTING
- TOLERANCES ON STOCK MATERIAL SIZES, SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS.
- ASME Y14.5M-1994 APPLIES
  - FED-STD-H28 APPLIES

3. REQUIREMENTS:  
MATERIAL - ABS-UL94V-0.  
4. MODIFIED FEATURES.

SUGGESTED SOURCES OF SUPPLY			
CONTROL NUMBER	SUPPLIER DATA		
	CAGE CODE	PART NUMBER	NAME AND ADDRESS
199-0865	4ZEB6	LCS135-N-D	SDV TECH LLC 905 JEFFERSON AVE. STE 205 SAINT PAUL, MN 55102

REVISIONS			
LTR	DESCRIPTION	DATE (YR-MO-DA)	APPROVED
-v03	BASE LINE RELEASE	13-02-12	SM/MC



DISTRIBUTION STATEMENT D. DISTRIBUTION AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND U.S. DOD CONTRACTORS ONLY. CRITICAL TECHNOLOGY; DETERMINATION MADE 00-00-00. OTHER REQUESTS SHALL BE REFERRED TO: TECHNICAL DIRECTOR, EDGEWOOD CHEMICAL BIOLOGICAL CENTER, ATTN: RDCB-DEA-D, ABERDEEN PROVING GROUND, MD 21010-5424.

DESTRUCTION NOTICE - DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.

WARNING - THIS DOCUMENT CONTAINS TECHNICAL DATA WHOSE EXPORT IS RESTRICTED BY THE ARMS EXPORT CONTROL ACT (TITLE 22, U.S.C., SEC 2751, et seq.) OR THE EXPORT ADMINISTRATION ACT OF 1979, AS AMENDED, TITLE 50, U.S.C., APP. 2401 et seq. VIOLATIONS OF THESE EXPORT LAWS ARE SUBJECT TO SEVERE CRIMINAL PENALTIES. DISSEMINATE IN ACCORDANCE WITH PROVISIONS OF DOD DIRECTIVE 5230.25.

THIS DOCUMENT CONTAINS INFORMATION EXEMPT FROM MANDATORY DISCLOSURE UNDER THE FOIA. EXEMPTION (3) APPLIES.  
FOR OFFICIAL USE ONLY

ALTERED ITEM DRAWING

QTY REQD	DRAWING OR PART NO.	NOMENCLATURE OR MATERIAL	SPECIFICATION	ITEM NO.
		PARTS LIST		
NEXT ASSY	199-0838	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005 FRACTIONS ± 1/32 ANGLES ± 0° 30'	ORIGINAL DATE 12-10-02	U.S. ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND EDGEWOOD CHEMICAL BIOLOGICAL CENTER ABERDEEN PROVING GROUND, MARYLAND, 21010-5424
		MATERIAL SEE NOTE 4	DRAWN BY JJC	ENCLOSURE, TAG FINDER
			CHECKER	
EQUIPMENT CODE NO.			DESIGN APPROVAL	SIZE D
			DRAWING APPROVAL	CAGE CODE 81361
			CONTRACT NO.	DWG NO. 199-0865
				SCALE 1/1
				SHEET

NOTES:

1. THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH ASME Y14.100 WITH THE ADDITION OF APPENDICES B THROUGH E.

2. THE FOLLOWING ARE MANDATORY WHEN INDICATED BY ■

■ REMOVE BURRS      ■ BREAK SHARP EDGES .010 MAX

FILLETS .010 MAX R.

<sup>125</sup> ✓ ALL OVER, EXCEPT AS NOTED

DIMENSIONS APPLY:

■ BEFORE PLATING OR PAINTING

AFTER PLATING

AFTER PAINTING

■ TOLERANCES ON STOCK MATERIAL SIZES, SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS.

■ ASME Y14.5M-1994 APPLIES

FED-STD-H28 APPLIES

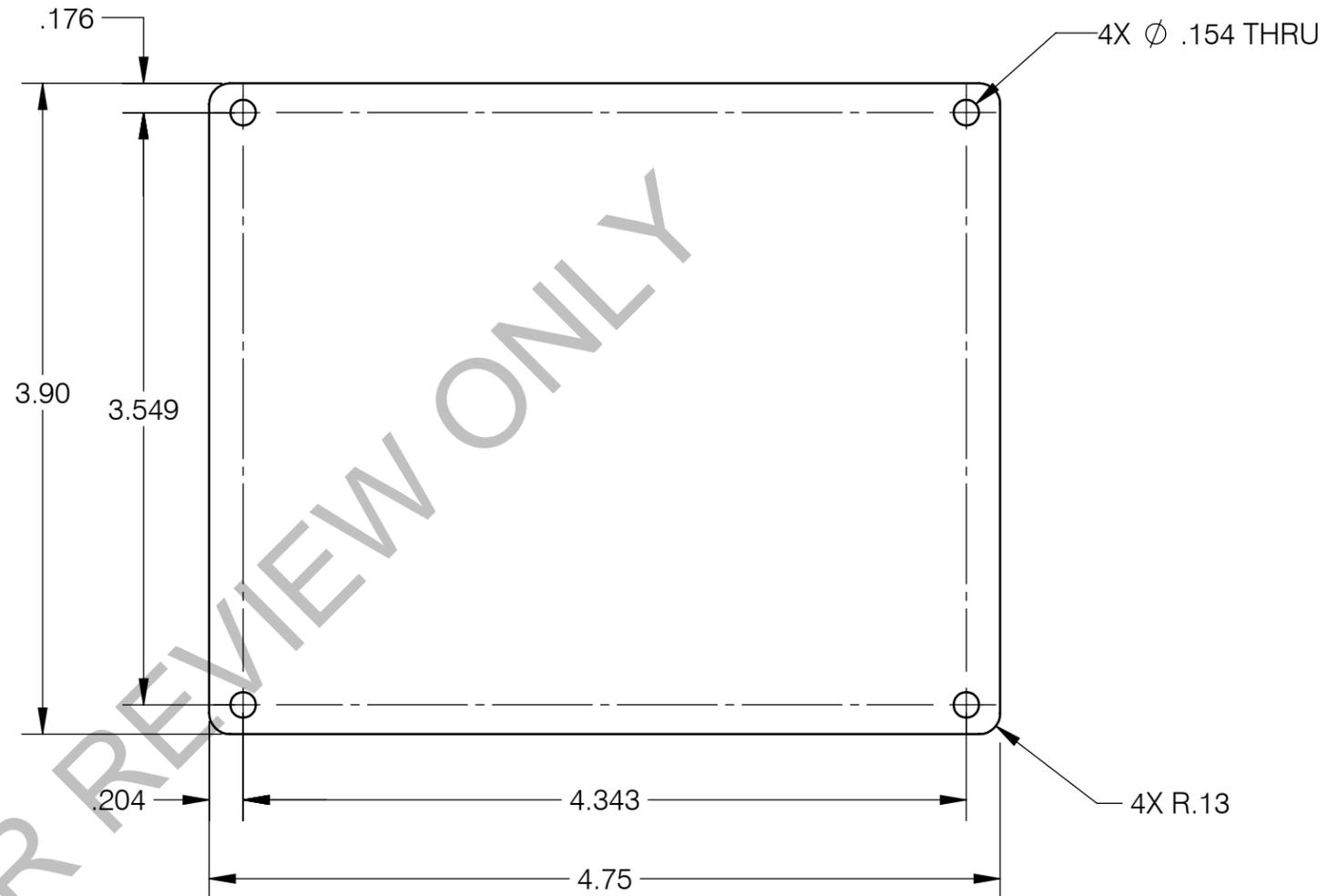
DISTRIBUTION STATEMENT D. DISTRIBUTION AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND U.S. DOD CONTRACTORS ONLY; CRITICAL TECHNOLOGY; DETERMINATION MADE 00-00-00. OTHER REQUESTS SHALL BE REFERRED TO: TECHNICAL DIRECTOR, EDGEWOOD CHEMICAL BIOLOGICAL CENTER, ATTN: RDCB-DEA-D, ABERDEEN PROVING GROUND, MD 21010-5424.

DESTRUCTION NOTICE - DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.

WARNING - THIS DOCUMENT CONTAINS TECHNICAL DATA WHOSE EXPORT IS RESTRICTED BY THE ARMS EXPORT CONTROL ACT (TITLE 22, U.S.C., SEC 2751, et seq.) OR THE EXPORT ADMINISTRATION ACT OF 1979 (TITLE 50, U.S.C., APP. 2401 et seq.), AS AMENDED. VIOLATIONS OF THESE EXPORT LAWS ARE SUBJECT TO SEVERE CRIMINAL PENALTIES. DISSEMINATE IN ACCORDANCE WITH PROVISIONS OF DOD DIRECTIVE 5230.25.

THIS DOCUMENT CONTAINS INFORMATION EXEMPT FROM MANDATORY DISCLOSURE UNDER THE FOIA.  
FOR OFFICIAL USE ONLY

REVISIONS			
LTR	DESCRIPTION	DATE (YR-MO-DA)	APPROVED
-v01	BASELINE RELEASE	13-02-13	SM/MC



QTY REQD	DRAWING OR PART NO.	NOMENCLATURE OR MATERIAL	SPECIFICATION	ITEM NO.
PARTS LIST				
NEXT ASSY	199-0179	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005 FRACTIONS ± 1/32 ANGLES ± 0° 30'	ORIGINAL DATE (YR-MO-DA) 12-03-02	U.S. ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND EDGEWOOD CHEMICAL BIOLOGICAL CENTER ABERDEEN PROVING GROUND, MARYLAND, 21010-5424
EQUIPMENT CODE NO.		MATERIAL	DRAWN BY HSW	<b>TRANSMITTER PCB, 315 MHz</b>
			CHECKER	
			SUBMITTED	
			DESIGN APPROVAL	
			DRAWING APPROVAL	SIZE B
			CONTRACT NO.	CAGE CODE 81361
				DWG NO. 199-0873
				SCALE 1/1
				SHEET

NOTES:

1. THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH ASME Y14.100 WITH THE ADDITION OF APPENDICES B THROUGH E.

2. THE FOLLOWING ARE MANDATORY WHEN INDICATED BY ■

- REMOVE BURRS    ■ BREAK SHARP EDGES .010 MAX
- FILLETS R .010 MAX.
- $125^\circ$  ALL OVER, EXCEPT AS NOTED

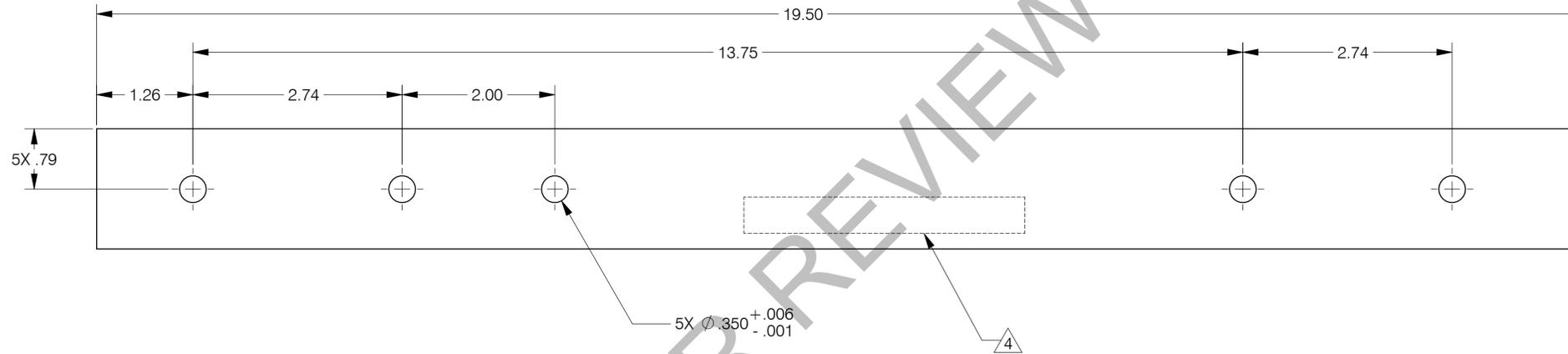
DIMENSIONS APPLY:

- BEFORE PLATING OR PAINTING
- AFTER PLATING
- AFTER PAINTING
- TOLERANCES ON STOCK MATERIAL SIZES, SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS.
- ASME Y14.5M-1994 APPLIES
- FED-STD-H26 APPLIES

3. FINISH 7.1.1 PLUS 20.4 OF MIL-STD-175, COLOR TAN 33446 PER FED-STD-595.

4. PART MARKING: RUBBER STAMP, SILKSCREEN OR STEEL STAMP. PERMANENTLY MARK CAGE CODE AND REVISION (81361-199-0885). CHARACTERS TO BE .12 HIGH AND BLACK IN COLOR PER MIL-STD-130. LOCATE APPROXIMATELY AS SHOWN.

REVISIONS			
LTR	DESCRIPTION	DATE (YR-MO-DA)	APPROVED
-v01	BASELINE RELEASE, 199-0142, 24 OCT 2013	13-02-19	SM/MC



FOR REVIEW ONLY

DISTRIBUTION STATEMENT D. DISTRIBUTION AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND U.S. DOD CONTRACTORS ONLY; CRITICAL TECHNOLOGY; DETERMINATION MADE 00-00-00. OTHER REQUESTS SHALL BE REFERRED TO: TECHNICAL DIRECTOR, EDGEWOOD CHEMICAL BIOLOGICAL CENTER, ATTN: RDCB-DEA-D, ABERDEEN PROVING GROUND, MD 21010-5424.

DESTRUCTION NOTICE - DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.

WARNING - THIS DOCUMENT CONTAINS TECHNICAL DATA WHOSE EXPORT IS RESTRICTED BY THE ARMS EXPORT CONTROL ACT (TITLE 22, U.S.C., SEC 2751, et seq.) OR THE EXPORT ADMINISTRATION ACT OF 1979 (TITLE 50, U.S.C., APP. 2401 et seq.), AS AMENDED. VIOLATIONS OF THESE EXPORT LAWS ARE SUBJECT TO SEVERE CRIMINAL PENALTIES. DISSEMINATE IN ACCORDANCE WITH PROVISIONS OF DOD DIRECTIVE 5230.25.

THIS DOCUMENT CONTAINS INFORMATION EXEMPT FROM MANDATORY DISCLOSURE UNDER THE FOIA. FOR OFFICIAL USE ONLY

QTY REQD	DRAWING OR PART NO.	NOMENCLATURE OR MATERIAL	SPECIFICATION	ITEM NO.
PARTS LIST				
NEXT ASSY 199-0142	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005 FRACTIONS ± 1/32 ANGLES ± 0° 30'	ORIGINAL DATE 13-01-31 DRAWN BY JJC CHECKER	U.S. ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND EDGEWOOD CHEMICAL BIOLOGICAL CENTER ABERDEEN PROVING GROUND, MARYLAND, 21010-5424	
EQUIPMENT CODE NO.	MATERIAL ALUMINUM ALLOY PLATE, 6061-T6, .25 THK PER ASTM-B209	DESIGN APPROVAL	<b>PLATE, RIGHT ETHERNET BOX COMPRESSION</b>	
		DRAWING APPROVAL		
		CONTRACT NO.	SIZE D	CAGE CODE 81361
			DWG NO. 199-0885	
			SCALE 1/1	SHEET

NOTES:

- THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH ASME Y14.100 WITH THE ADDITION OF APPENDICES B THROUGH E.
- THE FOLLOWING ARE MANDATORY WHEN INDICATED BY ■
  - REMOVE BURRS     BREAK SHARP EDGES .010 MAX
  - FILLETS R .010 MAX.
  - 125° ALL OVER, EXCEPT AS NOTED
- INSTALL CRIMP CONTACTS (SUPPLIED WITH ITEM 2) IAW MANUFACTURERS INSTRUCTIONS. CONTACT INSTALLATION IS REQUIRED IN UNUSED SPACES
- STRIP GRAY, GREEN, BLUE, AND BROWN WIRES .62 ± .06. CUT AND REMOVE YELLOW, PINK, RED, AND WHITE WIRE PRIOR TO ASSEMBLY OF ITEM 2.
- MARK WITH .15 HIGH CHARACTERS, COLOR BLACK LABEL TO READ:  
81361-(199-0908)  
ENE-H-EC130B  
RT LINEAR TRANS
- STRIP LENGTH IS 5/8.

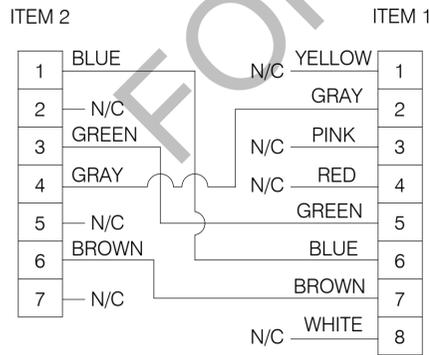
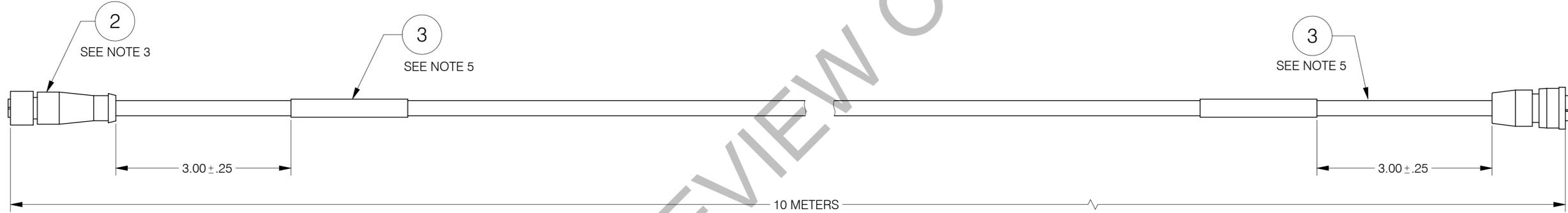
DISTRIBUTION STATEMENT D. DISTRIBUTION AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND U.S. DOD CONTRACTORS ONLY; CRITICAL TECHNOLOGY; DETERMINATION MADE 00-00-00. OTHER REQUESTS SHALL BE REFERRED TO: TECHNICAL DIRECTOR, EDGEWOOD CHEMICAL BIOLOGICAL CENTER, ATTN: RDCB-DEA-D, ABERDEEN PROVING GROUND, MD 21010-5424.

DESTRUCTION NOTICE - DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.

WARNING - THIS DOCUMENT CONTAINS TECHNICAL DATA WHOSE EXPORT IS RESTRICTED BY THE ARMS EXPORT CONTROL ACT (TITLE 22, U.S.C., SEC 2751, et seq.) OR THE EXPORT ADMINISTRATION ACT OF 1979 (TITLE 50, U.S.C., APP. 2401 et seq.), AS AMENDED. VIOLATIONS OF THESE EXPORT LAWS ARE SUBJECT TO SEVERE CRIMINAL PENALTIES. DISSEMINATE IN ACCORDANCE WITH PROVISIONS OF DOD DIRECTIVE 5230.25.

THIS DOCUMENT CONTAINS INFORMATION EXEMPT FROM MANDATORY DISCLOSURE UNDER THE FOIA. FOR OFFICIAL USE ONLY

REVISIONS			
LTR	DESCRIPTION	DATE (YR-MO-DA)	APPROVED
-v01	BASELINE RELEASE	13-03-12	SM/MC
-v02	UPDATE NOTES 4 AND 5; ADDED NOTE 6; UPDATED DRAWING PICTORIALY	13-08-06	SM/MC



WIRING SCHEMATIC

A/R	MS23053/5-107-4	INSULATION SLEEVING, HEAT SHRINK, YELLOW, 1.969 WIDE X .331 HIGH	SAE-AMS-DTL-23053/3	3
1	199-0649	CONNECTOR, TRANSDUCER CABLE		2
1	199-0720	TRANSDUCER CABLE		1
QTY REQD	DRAWING OR PART NO.	NOMENCLATURE OR MATERIAL	SPECIFICATION	ITEM NO.

PARTS LIST

NEXT ASSY 199-0800	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005 FRACTIONS ± 1/32 ANGLES ± 0° 30'	ORIGINAL DATE 13-03-12 DRAWN BY JJC CHECKER	U.S. ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND EDGEWOOD CHEMICAL BIOLOGICAL CENTER ABERDEEN PROVING GROUND, MARYLAND, 21010-5424	
EQUIPMENT CODE NO.	MATERIAL	DESIGN APPROVAL	<p style="text-align: center;"><b>EC130B, LINEAR TRANSDUCER CABLE RIGHT</b></p>	
		DRAWING APPROVAL		
		CONTRACT NO.	SIZE D	CAGE CODE 81361
			DWG NO. 199-0908	
			SCALE 1/1	SHEET

4

3

2

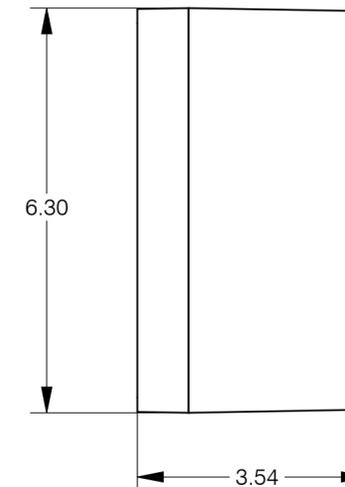
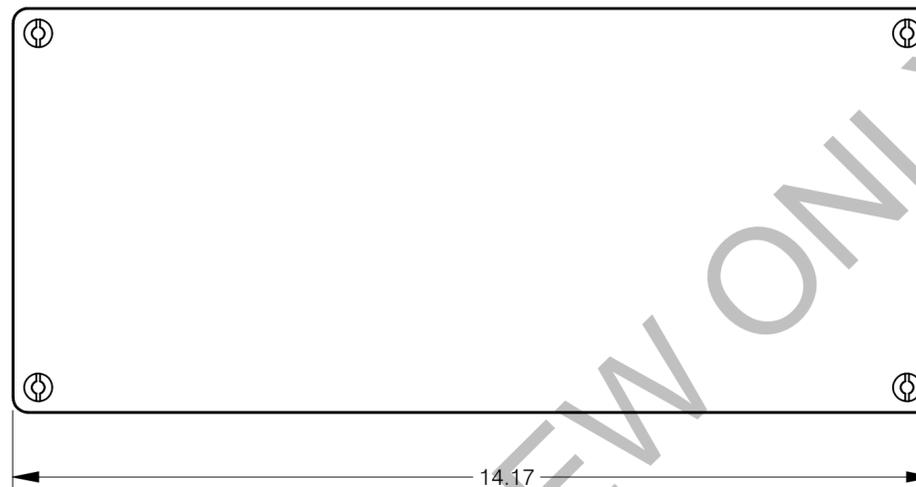
1

NOTES:

- 1. THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH ASME Y14.100 WITH THE ADDITION OF APPENDICES B THROUGH E.
- 2. THE FOLLOWING ARE MANDATORY WHEN INDICATED BY ■
  - REMOVE BURRS     BREAK SHARP EDGES .010 MAX
  - FILLETS R .010 MAX
  - <sup>125</sup> ALL OVER, EXCEPT AS NOTED
- DIMENSIONS APPLY:
  - BEFORE PLATING OR PAINTING
  - AFTER PLATING
  - AFTER PAINTING
- TOLERANCES ON STOCK MATERIAL SIZES, SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS.
- ASME Y14.5M-1994 APPLIES
- FED-STD-H28 APPLIES
- 3. IDENTIFICATION OF THE SUGGESTED SOURCE(S) OF SUPPLY HEREON IS NOT TO BE CONSTRUED AS A GUARANTEE OF PRESENT OR CONTINUED AVAILABILITY AS A SOURCE OF SUPPLY FOR THE ITEM.
- 4. MATERIAL: NEMA 4X CAST ALUMINUM ENCLOSURE.
- 5. FINISH: RAL 7042 GRAY FINISH, INSIDE AND OUTSIDE
- 6. WHEN PROCURED FROM CAGE CODE 1WSN4, COVER MOUNTING AND CONDUCTIVE PLATE MOUNTING HARDWARE SHALL BE SUPPLIED.

SUGGESTED SOURCES OF SUPPLY			
CONTROL NUMBER	SUPPLIER DATA		
	CAGE CODE	PART NUMBER	NAME AND ADDRESS
199-0916	1WSN4	CCA36169	HOFFMAN ENCLOSURES INC. DIV PENTAIR TECHNICAL PRODUCTS 2100 HOFFMAN WAY ANOKA, MN 55303

REVISIONS			
LTR	DESCRIPTION	DATE (YR-MO-DA)	APPROVED
-v01	BASELINE RELEASE	13-05-23	SM/MC



FOR REVIEW ONLY

DISTRIBUTION STATEMENT D. DISTRIBUTION AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND U.S. DOD CONTRACTORS ONLY; CRITICAL TECHNOLOGY; DETERMINATION MADE 00-00-00. OTHER REQUESTS SHALL BE REFERRED TO: TECHNICAL DIRECTOR, EDGEWOOD CHEMICAL BIOLOGICAL CENTER, ATTN: RDCB-DEA-D, ABERDEEN PROVING GROUND, MD 21010-5424.

DESTRUCTION NOTICE - DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.

WARNING - THIS DOCUMENT CONTAINS TECHNICAL DATA WHOSE EXPORT IS RESTRICTED BY THE ARMS EXPORT CONTROL ACT (TITLE 22, U.S.C., SEC 2751, et seq.) OR THE EXPORT ADMINISTRATION ACT OF 1979 (TITLE 50, U.S.C., APP. 2401 et seq.), AS AMENDED. VIOLATIONS OF THESE EXPORT LAWS ARE SUBJECT TO SEVERE CRIMINAL PENALTIES. DISSEMINATE IN ACCORDANCE WITH PROVISIONS OF DOD DIRECTIVE 5230.25.

THIS DOCUMENT CONTAINS INFORMATION EXEMPT FROM MANDATORY DISCLOSURE UNDER THE FOIA.  
FOR OFFICIAL USE ONLY

### VENDOR ITEM CONTROL DRAWING

QTY REQD	DRAWING OR PART NO.	NOMENCLATURE OR MATERIAL	SPECIFICATION	ITEM NO.
		PARTS LIST		
	NEXT ASSY 199-0747	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005 FRACTIONS ± 1/32 ANGLES ± 0° 30'	ORIGINAL DATE (YR-MO-DA) 13-05-23 DRAWN BY JJC CHECKER SUBMITTED DESIGN APPROVAL DRAWING APPROVAL CONTRACT NO.	U.S. ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND EDGEWOOD CHEMICAL BIOLOGICAL CENTER ABERDEEN PROVING GROUND, MARYLAND, 21010-5424  <b>PANEL COMM BOX</b> SIZE C CAGE CODE 81361 DWG NO. 199-0916
	EQUIPMENT CODE NO.	SEE NOTE 4		SCALE 1/2 SHEET

4

3

2

1

NOTES:

1. THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH ASME Y14.100 WITH THE ADDITION OF APPENDICES B THROUGH E.

2. THE FOLLOWING ARE MANDATORY WHEN INDICATED BY ■

- REMOVE BURRS     BREAK SHARP EDGES .010 MAX
- FILLETS R .010 MAX.
- 125° ALL OVER, EXCEPT AS NOTED

DIMENSIONS APPLY:

- BEFORE PLATING OR PAINTING
- AFTER PLATING
- AFTER PAINTING

TOLERANCES ON STOCK MATERIAL SIZES, SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS.

- ASME Y14.5M-1994 APPLIES
- FED-STD-H28 APPLIES

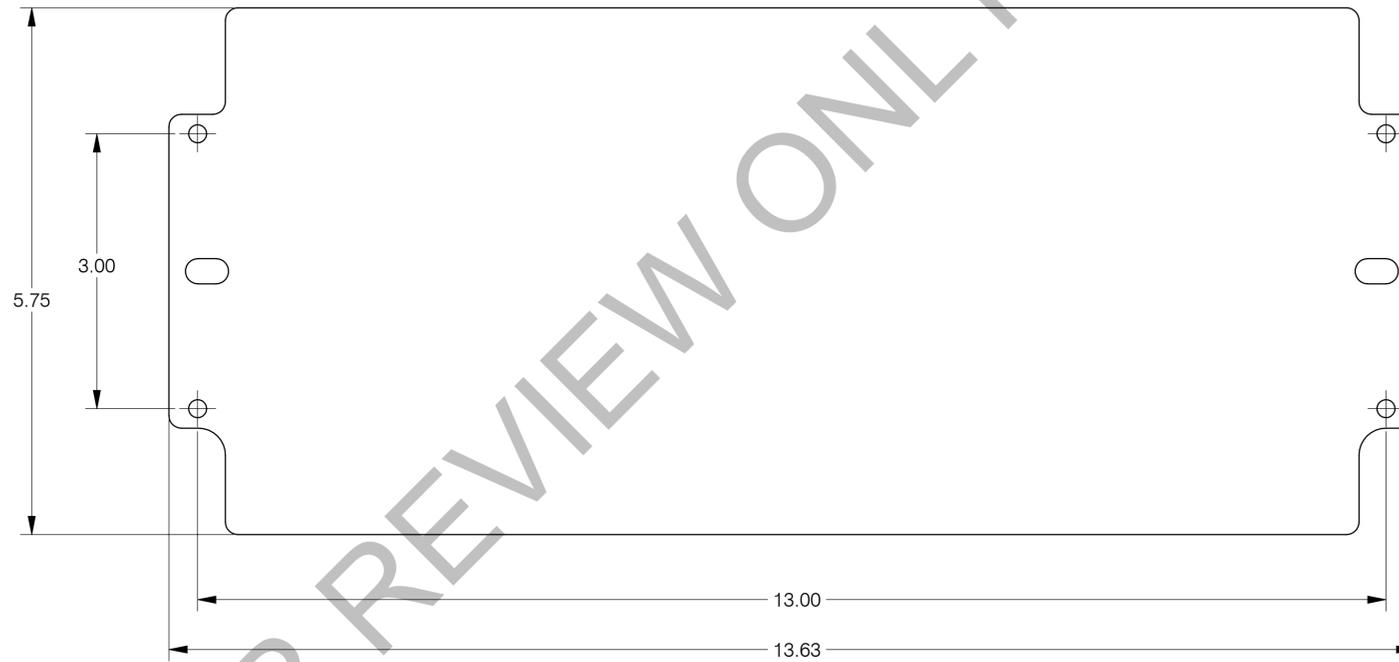
3. IDENTIFICATION OF THE SUGGESTED SOURCE(S) OF SUPPLY HEREON IS NOT TO BE CONSTRUED AS A GUARANTEE OF PRESENT OR CONTINUED AVAILABILITY AS A SOURCE OF SUPPLY FOR THE ITEM.

4. REQUIREMENTS

- A) MATERIAL: 14 GAGE STEEL
- B) COLOR: WHITE, NON CONDUCTIVE

SUGGESTED SOURCES OF SUPPLY			
CONTROL NUMBER	SUPPLIER DATA		
	CAGE CODE	PART NUMBER	NAME AND ADDRESS
199-0917	1WSN4	CCAP3616	HOFFMAN ENCLOSURES INC 2100 HOFFMAN WAY ANOKA, MN 55303-1745

REVISIONS			
LTR	DESCRIPTION	DATE (YR-MO-DA)	APPROVED
-v01	BASELINE RELEASE	13-04-30	SM/MC



DISTRIBUTION STATEMENT D. DISTRIBUTION AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND U.S. DOD CONTRACTORS ONLY; CRITICAL TECHNOLOGY; DETERMINATION MADE 00-00-00. OTHER REQUESTS SHALL BE REFERRED TO: TECHNICAL DIRECTOR, EDGEWOOD CHEMICAL BIOLOGICAL CENTER, ATTN: RDCB-DEA-D, ABERDEEN PROVING GROUND, MD 21010-5424.

DESTRUCTION NOTICE - DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.

WARNING - THIS DOCUMENT CONTAINS TECHNICAL DATA WHOSE EXPORT IS RESTRICTED BY THE ARMS EXPORT CONTROL ACT (TITLE 22, U.S.C., SEC 2751, et seq.) OR THE EXPORT ADMINISTRATION ACT OF 1979 (TITLE 50, U.S.C., APP. 2401 et seq.), AS AMENDED. VIOLATIONS OF THESE EXPORT LAWS ARE SUBJECT TO SEVERE CRIMINAL PENALTIES. DISSEMINATE IN ACCORDANCE WITH PROVISIONS OF DOD DIRECTIVE 5230.25.

THIS DOCUMENT CONTAINS INFORMATION EXEMPT FROM MANDATORY DISCLOSURE UNDER THE FOIA. FOR OFFICIAL USE ONLY

### VENDOR ITEM DRAWING

QTY REQD	DRAWING OR PART NO.	NOMENCLATURE OR MATERIAL	SPECIFICATION	ITEM NO.
		PARTS LIST		
NEXT ASSY 199-0744	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005 FRACTIONS ± 1/32 ANGLES ± 0° 30'	ORIGINAL DATE 12-12-06 DRAWN BY JJC CHECKER	U.S. ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND EDGEWOOD CHEMICAL BIOLOGICAL CENTER ABERDEEN PROVING GROUND, MARYLAND, 21010-5424	
EQUIPMENT CODE NO.	MATERIAL	DESIGN APPROVAL	PLATE, COMM BOX	
		DRAWING APPROVAL		
		CONTRACT NO.	SIZE D	CAGE CODE 81361
			DWG NO. 199-0917	
			SCALE 1/1	SHEET



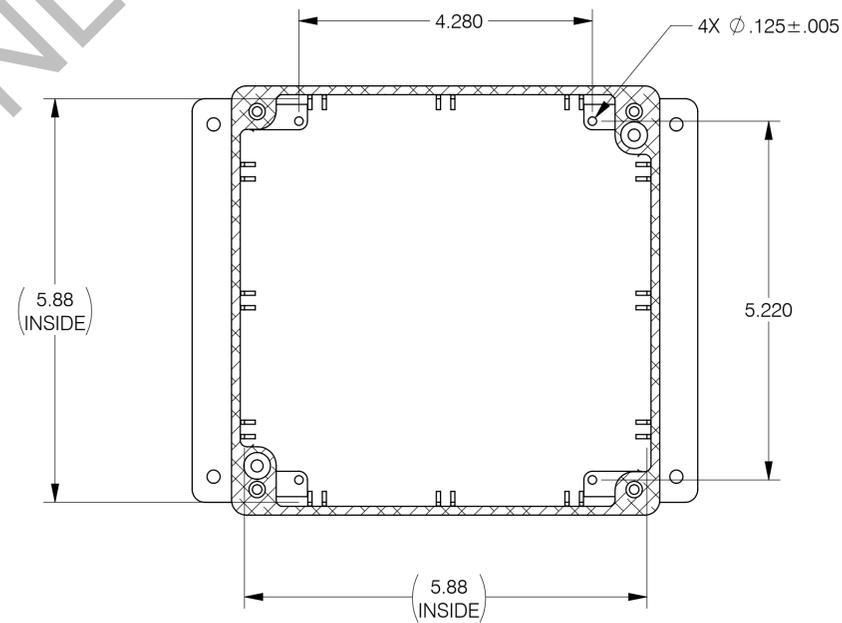
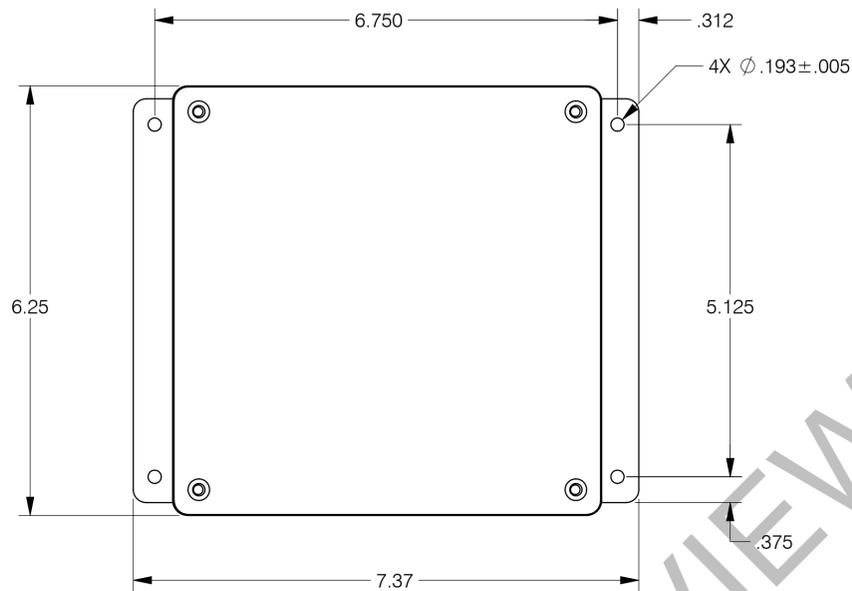


- NOTES:
- THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH ASME Y14.100 WITH THE ADDITION OF APPENDICES B THROUGH E.
  - THE FOLLOWING ARE MANDATORY WHEN INDICATED BY ■
    - REMOVE BURRS     BREAK SHARP EDGES .010 MAX
    - FILLETS R .010 MAX.
    - $125^\circ$  ALL OVER, EXCEPT AS NOTED
  - DIMENSIONS APPLY:
    - BEFORE PLATING OR PAINTING
    - AFTER PLATING
    - AFTER PAINTING
  - TOLERANCES ON STOCK MATERIAL SIZES, SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS.
  - ASME Y14.5M-1994 APPLIES
  - FED-STD-H28 APPLIES

- IDENTIFICATION OF THE SUGGESTED SOURCE(S) OF SUPPLY HEREON IS NOT TO BE CONSTRUED AS A GUARANTEE OF PRESENT OR CONTINUED AVAILABILITY AS A SOURCE OF SUPPLY FOR THE ITEM.
- MATERIAL:  
NEMA 4X DIE CAST ALUMINUM ENCLOSURE, ALUMINUM ALLOY #ADC-12
- FINISH: NATURAL
- WHEN PROCURED FROM CAGE CODE 71218, 4X M4 X 32MM (1.260 IN) LONG SCREWS FOR MOUNTING BODY TO COVER.

SUGGESTED SOURCES OF SUPPLY			
CONTROL NUMBER	SUPPLIER DATA		
	CAGE CODE	PART NUMBER	NAME AND ADDRESS
199-0921	71218	AN-2810	BUD INDUSTRIES, INC. 4605 E 355TH ST WILLOUGHBY, OH 44094

REVISIONS			
LTR	DESCRIPTION	DATE (YR-MO-DA)	APPROVED
-V01	BASELINE RELEASE	13-02-15	SM/MC



SECTION A-A

DISTRIBUTION STATEMENT D. DISTRIBUTION AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND U.S. DOD CONTRACTORS ONLY; CRITICAL TECHNOLOGY; DETERMINATION MADE 00-00-00. OTHER REQUESTS SHALL BE REFERRED TO: TECHNICAL DIRECTOR, EDGEWOOD CHEMICAL BIOLOGICAL CENTER, ATTN: RDCB-DEA-D, ABERDEEN PROVING GROUND, MD 21010-5424.

DESTRUCTION NOTICE - DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.

WARNING - THIS DOCUMENT CONTAINS TECHNICAL DATA WHOSE EXPORT IS RESTRICTED BY THE ARMS EXPORT CONTROL ACT (TITLE 22, U.S.C., SEC 2751, et seq.) OR THE EXPORT ADMINISTRATION ACT OF 1979 (TITLE 50, U.S.C., APP. 2401 et seq.), AS AMENDED. VIOLATIONS OF THESE EXPORT LAWS ARE SUBJECT TO SEVERE CRIMINAL PENALTIES. DISSEMINATE IN ACCORDANCE WITH PROVISIONS OF DOD DIRECTIVE 5230.25.

THIS DOCUMENT CONTAINS INFORMATION EXEMPT FROM MANDATORY DISCLOSURE UNDER THE FOIA. FOR OFFICIAL USE ONLY

VENDOR ITEM CONTROL DRAWING

QTY REQD	DRAWING OR PART NO.	NOMENCLATURE OR MATERIAL	SPECIFICATION	ITEM NO.
		PARTS LIST		
NEXT ASSY	UNLESS OTHERWISE SPECIFIED	ORIGINAL DATE	U.S. ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND	
199-0164	DIMENSIONS ARE IN INCHES	13-02-15	EDGEWOOD CHEMICAL BIOLOGICAL CENTER	
	TOLERANCES ON:	DRAWN BY	ABERDEEN PROVING GROUND, MARYLAND, 21010-5424	
	2 PLACE DECIMALS ±	JJC	PCU SWITCH BOX, MODIFIED	
	3 PLACE DECIMALS ± .015	CHECKER		
	FRACTIONS ± 1/32	SUBMITTED		
	ANGLES ± 0° 30'	DESIGN APPROVAL		
EQUIPMENT CODE NO.	MATERIAL	DRAWING APPROVAL	SIZE	CAGE CODE
		CONTRACT NO.	D	81361
			DWG NO.	199-0921
			SCALE	NONE
			SHEET	1

FOR REVIEW ONLY

4

3

2

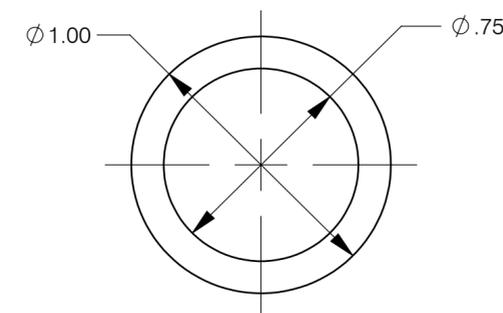
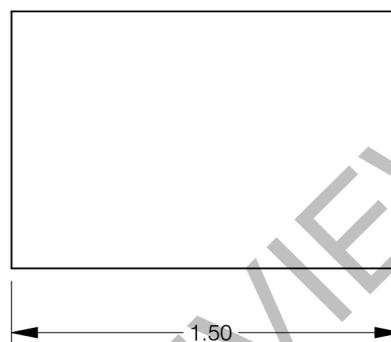
1

NOTES:

- 1. THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH ASME Y14.100 WITH THE ADDITION OF APPENDICES B THROUGH E.
  - 2. THE FOLLOWING ARE MANDATORY WHEN INDICATED BY ■
    - REMOVE BURRS     BREAK SHARP EDGES .010 MAX
    - FILLETS R .010 MAX
    - 125 ALL OVER, EXCEPT AS NOTED
  - DIMENSIONS APPLY:
    - BEFORE PLATING OR PAINTING
    - AFTER PLATING
    - AFTER PAINTING
  - TOLERANCES ON STOCK MATERIAL SIZES, SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS.
  - ASME Y14.5M-1994 APPLIES
  - FED-STD-H28 APPLIES
3. IDENTIFICATION OF THE SUGGESTED SOURCE(S) OF SUPPLY HEREON IS NOT TO BE CONSTRUED AS A GUARANTEE OF PRESENT OR CONTINUED AVAILABILITY AS A SOURCE OF SUPPLY FOR THE ITEM.
4. MATERIAL: BRONZE, CAST ALLOY 932 (SAE 660)

SUGGESTED SOURCES OF SUPPLY			
CONTROL NUMBER	SUPPLIER DATA		
	CAGE CODE	PART NUMBER	NAME AND ADDRESS
199-15041	0KVE6	6381K555	MCMaster CARR SUPPLY COMPANY 6100 FULTON INDUSTRIAL BLVD ATLANTA, GA 30336

REVISIONS			
LTR	DESCRIPTION	DATE (YR-MO-DA)	APPROVED
-v02	BASELINE RELEASE	13-02-01	SM/MC



FOR REVIEW ONLY

DISTRIBUTION STATEMENT D. DISTRIBUTION AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND U.S. DOD CONTRACTORS ONLY; CRITICAL TECHNOLOGY; DETERMINATION MADE 00-00-00. OTHER REQUESTS SHALL BE REFERRED TO: TECHNICAL DIRECTOR, EDGEWOOD CHEMICAL BIOLOGICAL CENTER, ATTN: RDCB-DEA-D, ABERDEEN PROVING GROUND, MD 21010-5424.

DESTRUCTION NOTICE - DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.

WARNING - THIS DOCUMENT CONTAINS TECHNICAL DATA WHOSE EXPORT IS RESTRICTED BY THE ARMS EXPORT CONTROL ACT (TITLE 22, U.S.C., SEC 2751, et seq.) OR THE EXPORT ADMINISTRATION ACT OF 1979 (TITLE 50, U.S.C., APP. 2401 et seq.), AS AMENDED. VIOLATIONS OF THESE EXPORT LAWS ARE SUBJECT TO SEVERE CRIMINAL PENALTIES. DISSEMINATE IN ACCORDANCE WITH PROVISIONS OF DOD DIRECTIVE 5230.25.

THIS DOCUMENT CONTAINS INFORMATION EXEMPT FROM MANDATORY DISCLOSURE UNDER THE FOIA.  
FOR OFFICIAL USE ONLY

### VENDOR ITEM CONTROL DRAWING

QTY REQD	DRAWING OR PART NO.	NOMENCLATURE OR MATERIAL	SPECIFICATION	ITEM NO.
		PARTS LIST		
	199-8446	UNLESS OTHERWISE SPECIFIED	U.S. ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND EDGEWOOD CHEMICAL BIOLOGICAL CENTER ABERDEEN PROVING GROUND, MARYLAND, 21010-5424	
		DIMENSIONS ARE IN INCHES TOLERANCES ON: 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005 FRACTIONS ± 1/32 ANGLES ± 0° 30'	SLEEVE, BEARING	
		MATERIAL	SIZE <b>C</b>	CAGE CODE 81361
		EQUIPMENT CODE NO.	DWG NO. 199-15041	
			SCALE 2/1	SHEET

4

3

2

1

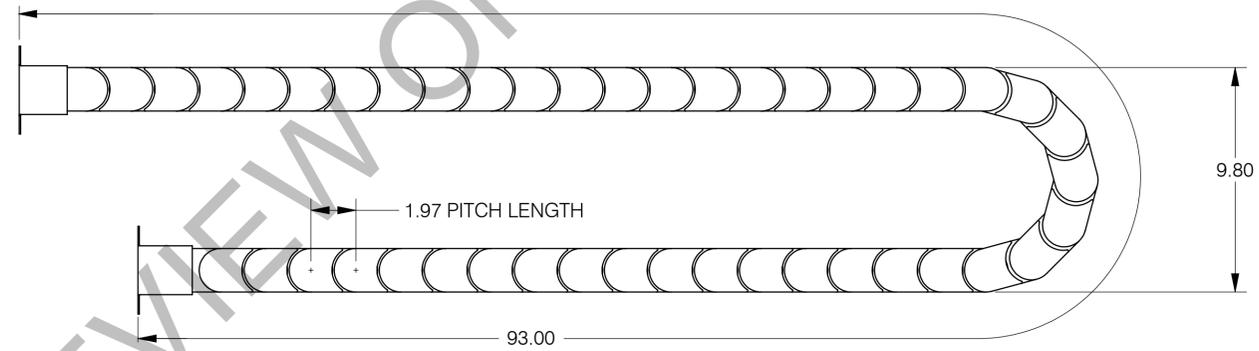
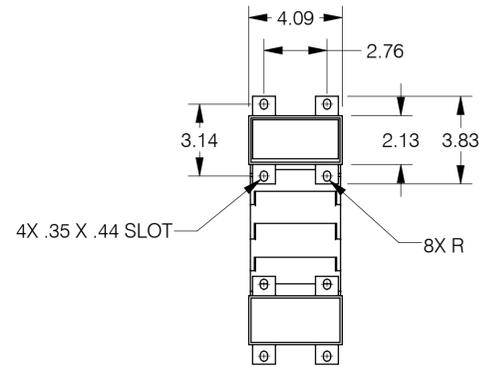


- NOTES:
- THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH ASME Y14.100 WITH THE ADDITION OF APPENDICES B THROUGH E.
  - THE FOLLOWING ARE MANDATORY WHEN INDICATED BY ■
    - REMOVE BURRS     BREAK SHARP EDGES .010 MAX
    - FILLETS R .010 MAX.
    - $125^\circ$  ALL OVER, EXCEPT AS NOTED
  - DIMENSIONS APPLY:
    - BEFORE PLATING OR PAINTING
    - AFTER PLATING
    - AFTER PAINTING
  - TOLERANCES ON STOCK MATERIAL SIZES, SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS.
    - ASME Y14.5M-1994 APPLIES
    - FED-STD-H28 APPLIES

3. IDENTIFICATION OF THE SUGGESTED SOURCE(S) OF SUPPLY HEREON IS NOT TO BE CONSTRUED AS A GUARANTEE OF PRESENT OR CONTINUED AVAILABILITY AS A SOURCE OF SUPPLY FOR THE ITEM.

SUGGESTED SOURCES OF SUPPLY			
CONTROL NUMBER	SUPPLIER DATA		
	CAGE CODE	PART NUMBER	NAME AND ADDRESS
199-15043	88759	N5-10-87-A/A	A & A MANUFACTURING CO., INC. 2300 S CALHOUN RD NEW BERLIN, WI 53151

REVISIONS			
LTR	DESCRIPTION	DATE (YR-MO-DA)	APPROVED
-v02	BASELINE RELEASE, 199-0800, 12-10-09	13-03-11	SM/MC



FOR REVIEW ONLY

DISTRIBUTION STATEMENT D. DISTRIBUTION AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND U.S. DOD CONTRACTORS ONLY; CRITICAL TECHNOLOGY; DETERMINATION MADE 00-00-00. OTHER REQUESTS SHALL BE REFERRED TO: TECHNICAL DIRECTOR, EDGEWOOD CHEMICAL BIOLOGICAL CENTER, ATTN: RDCB-DEA-D, ABERDEEN PROVING GROUND, MD 21010-5424.

DESTRUCTION NOTICE - DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.

WARNING - THIS DOCUMENT CONTAINS TECHNICAL DATA WHOSE EXPORT IS RESTRICTED BY THE ARMS EXPORT CONTROL ACT (TITLE 22, U.S.C., SEC 2751, et seq.) OR THE EXPORT ADMINISTRATION ACT OF 1979 (TITLE 50, U.S.C., APP. 2401 et seq.), AS AMENDED. VIOLATIONS OF THESE EXPORT LAWS ARE SUBJECT TO SEVERE CRIMINAL PENALTIES. DISSEMINATE IN ACCORDANCE WITH PROVISIONS OF DOD DIRECTIVE 5230.25.

THIS DOCUMENT CONTAINS INFORMATION EXEMPT FROM MANDATORY DISCLOSURE UNDER THE FOIA. FOR OFFICIAL USE ONLY

VENDOR ITEM CONTROL DRAWING

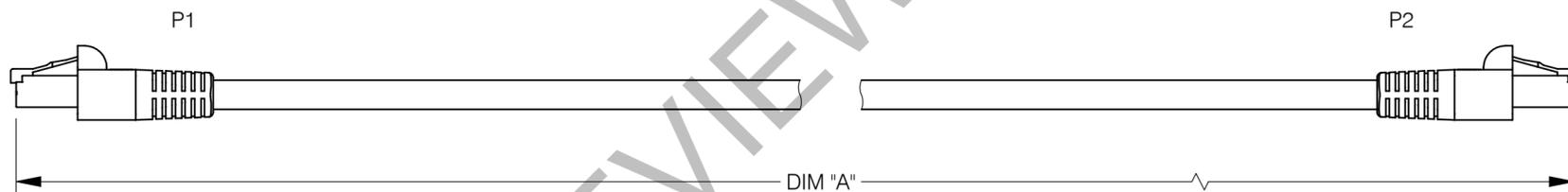
QTY REQD	DRAWING OR PART NO.	NOMENCLATURE OR MATERIAL	SPECIFICATION	ITEM NO.
		PARTS LIST		
NEXT ASSY 199-4424	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005 FRACTIONS ± 1/32 ANGLES ± 0° 30'	ORIGINAL DATE 13-02-28 DRAWN BY JJC CHECKER	U.S. ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND EDGEWOOD CHEMICAL BIOLOGICAL CENTER ABERDEEN PROVING GROUND, MARYLAND, 21010-5424	
EQUIPMENT CODE NO.	MATERIAL	DESIGN APPROVAL	FLEXIBLE CABLE RUN	
		DRAWING APPROVAL		
		CONTRACT NO.	SIZE D	CAGE CODE 81361
			DWG NO. 199-15043	
			SCALE 1/4	SHEET

NOTES:

- 1. THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH ASME Y14.100 WITH THE ADDITION OF APPENDICES B THROUGH E.
- 2. THE FOLLOWING ARE MANDATORY WHEN INDICATED BY ■
  - REMOVE BURRS     BREAK SHARP EDGES .010 MAX
  - FILLETS R .010 MAX
  - 125 ALL OVER, EXCEPT AS NOTED
- DIMENSIONS APPLY:
  - BEFORE PLATING OR PAINTING
  - AFTER PLATING
  - AFTER PAINTING
- TOLERANCES ON STOCK MATERIAL SIZES, SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS.
- ASME Y14.5M-1994 APPLIES
- FED-STD-H28 APPLIES
- 3. IDENTIFICATION OF THE SUGGESTED SOURCE(S) OF SUPPLY HEREON IS NOT TO BE CONSTRUED AS A GUARANTEE OF PRESENT OR CONTINUED AVAILABILITY AS A SOURCE OF SUPPLY FOR THE ITEM.
- 4. REQUIREMENTS:
  - A) 26 AWG STRANDED COPPER WIRE, 8 CONDUCTORS, SHIELDED
  - B) CM TYPE PVC JACKET
  - C) 50 MICRON GOLD PLATED SHORT BODY RJ45 CONNECTORS
  - D) RoHS COMPLIANT

SUGGESTED SOURCES OF SUPPLY			
CONTROL NUMBER	SUPPLIER DATA		
	CAGE CODE	PART NUMBER	NAME AND ADDRESS
199-15044-1	NONE	C6MBS-25-BLK	FIREFOLD 990 BISCAYNE DRIVE CONCORD, NC 28027 WWW.FIREFOLD.COM
199-15044-2	NONE	C6MBS-50-BLK	FIREFOLD 990 BISCAYNE DRIVE CONCORD, NC 28027 WWW.FIREFOLD.COM

REVISIONS			
LTR	DESCRIPTION	DATE (YR-MO-DA)	APPROVED
-v01	BASELINE RELEASE	13-03-19	SM/MC



DASH NO.	DIM "A"
-1	300.00 ± 2.00
-2	600.00 ± 4.00

DISTRIBUTION STATEMENT D. DISTRIBUTION AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND U.S. DOD CONTRACTORS ONLY; CRITICAL TECHNOLOGY; DETERMINATION MADE 00-00-00. OTHER REQUESTS SHALL BE REFERRED TO: TECHNICAL DIRECTOR, EDGEWOOD CHEMICAL BIOLOGICAL CENTER, ATTN: RDCB-DEA-D, ABERDEEN PROVING GROUND, MD 21010-5424.

DESTRUCTION NOTICE - DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.

WARNING - THIS DOCUMENT CONTAINS TECHNICAL DATA WHOSE EXPORT IS RESTRICTED BY THE ARMS EXPORT CONTROL ACT (TITLE 22, U.S.C., SEC 2751, et seq.) OR THE EXPORT ADMINISTRATION ACT OF 1979 (TITLE 50, U.S.C., APP. 2401 et seq.), AS AMENDED. VIOLATIONS OF THESE EXPORT LAWS ARE SUBJECT TO SEVERE CRIMINAL PENALTIES. DISSEMINATE IN ACCORDANCE WITH PROVISIONS OF DOD DIRECTIVE 5230.25.

THIS DOCUMENT CONTAINS INFORMATION EXEMPT FROM MANDATORY DISCLOSURE UNDER THE FOIA.  
FOR OFFICIAL USE ONLY

### VENDOR ITEM CONTROL DRAWING

QTY REQD	DRAWING OR PART NO.	NOMENCLATURE OR MATERIAL	SPECIFICATION	ITEM NO.	
		PARTS LIST			
	NEXT ASSY	UNLESS OTHERWISE SPECIFIED	ORIGINAL DATE (YR-MO-DA)	U.S. ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND EDGEWOOD CHEMICAL BIOLOGICAL CENTER ABERDEEN PROVING GROUND, MARYLAND, 21010-5424	
	199-0718	DIMENSIONS ARE IN INCHES TOLERANCES ON: 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005 FRACTIONS ± 1/32 ANGLES ± 0° 30'	13-03-18		
	199-0719				
	EQUIPMENT CODE NO.	MATERIAL	DESIGN APPROVAL	<b>ETHERNET CABLE, CAT 6</b>	
			DRAWING APPROVAL		
			CONTRACT NO.		
			SIZE	CAGE CODE	DWG NO.
			<b>C</b>	81361	199-15044
			SCALE	1/1	SHEET

4

3

2

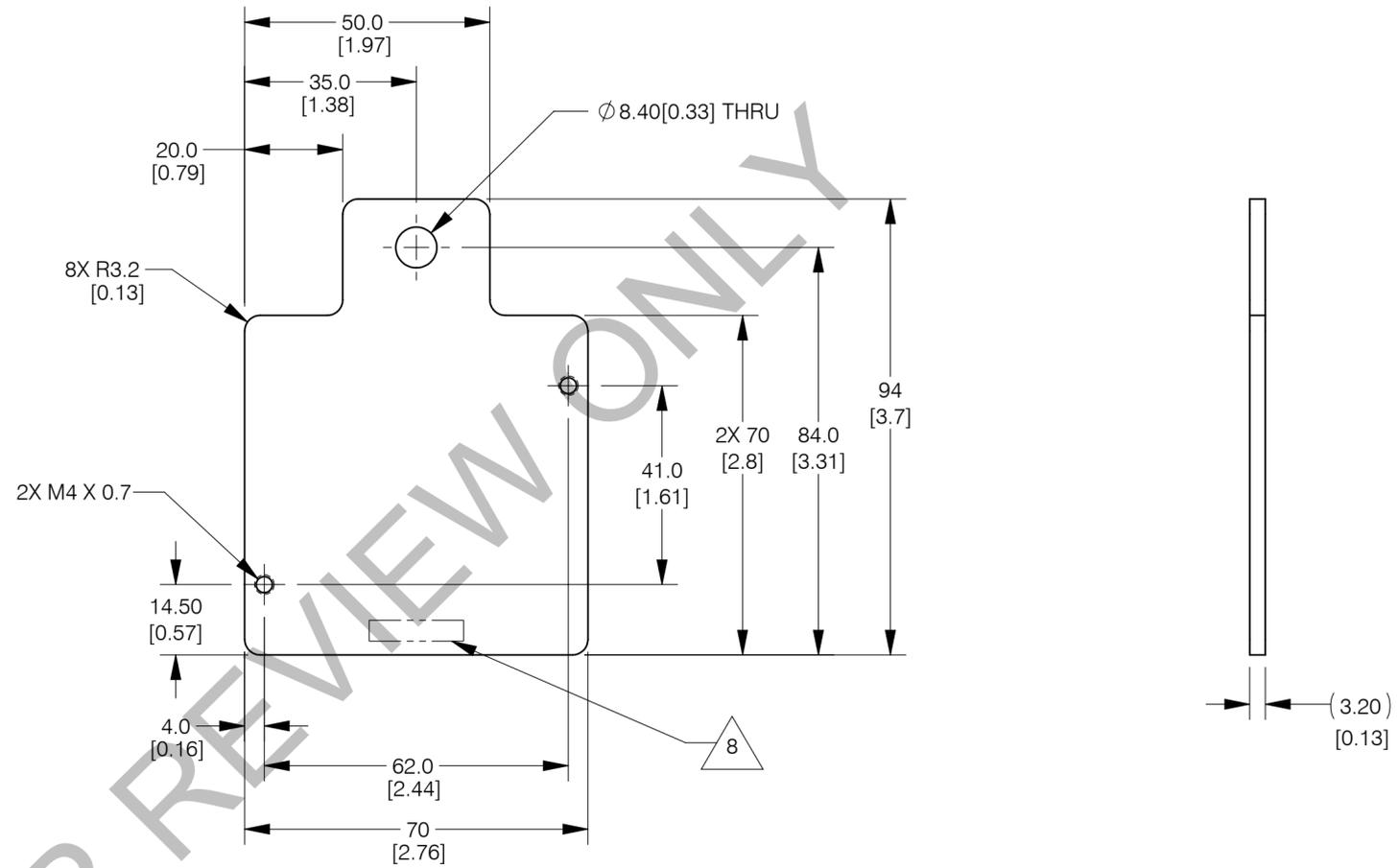
1

NOTES:

- 1. THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH ASME Y14.100 WITH THE ADDITION OF APPENDICES B THROUGH E.
- 2. THE FOLLOWING ARE MANDATORY WHEN INDICATED BY 
  - REMOVE BURRS
  - BREAK SHARP EDGES 0.25 MAX
  - FILLETS R 0.25 MAX
  - 3.2  $\sqrt{\text{ALL OVER}}$ , EXCEPT AS NOTED
- DIMENSIONS APPLY:
  - BEFORE PLATING OR PAINTING
  - AFTER PLATING
  - AFTER PAINTING
- TOLERANCES ON STOCK MATERIAL SIZES, SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS.
- ASME Y14.5M-1994 APPLIES
- FED-STD-H28 APPLIES

- 3. METRIC, 1 INCH = 25.4 MM APPLIES.
- 4. MATERIAL: ALUMINUM ALLOY PLATE, 3.2 [.13] STK, 6061-T6511 IAW ASTM B209.
- 5. FINISH: CHEMICAL CONVERSION COATING PER MIL-DTL-5541, TYPE II, CLASS 3.
- 6. FINISH 7.1.1 PLUS 20.4 OF MIL-STD-171, COLOR TAN 33446 PER FED-STD-595.
- 7. NO PAINT ON INTERNAL THREADS.
- 8. MARKING: RUBBER STAMP, SILKSCREEN OR STEEL STAMP. PERMANENTLY MARK CAGE CODE, PART NUMBER AND REVISION (81361-199-3316-X (X = CURRENT DRAWING REVISION)). CHARACTERS TO BE 3.05 (.12) HIGH AND BLACK IN COLOR PER MIL-STD-130. LOCATE APPROXIMATELY AS SHOWN.

REVISIONS			
LTR	DESCRIPTION	DATE (YR-MO-DA)	APPROVED
-v01	BASELINE RELEASE WITH 199-3316, 12-09-18	13-03-12	SM/MC



DISTRIBUTION STATEMENT D. DISTRIBUTION AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND U.S. DOD CONTRACTORS ONLY; CRITICAL TECHNOLOGY; DETERMINATION MADE 00-00-00. OTHER REQUESTS SHALL BE REFERRED TO: TECHNICAL DIRECTOR, EDGEWOOD CHEMICAL BIOLOGICAL CENTER, ATTN: RDCB-DEA-D, ABERDEEN PROVING GROUND, MD 21010-5424.

DESTRUCTION NOTICE - DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.

WARNING - THIS DOCUMENT CONTAINS TECHNICAL DATA WHOSE EXPORT IS RESTRICTED BY THE ARMS EXPORT CONTROL ACT (TITLE 22, U.S.C., SEC 2751, et seq.) OR THE EXPORT ADMINISTRATION ACT OF 1979 (TITLE 50, U.S.C., APP. 2401 et seq.), AS AMENDED. VIOLATIONS OF THESE EXPORT LAWS ARE SUBJECT TO SEVERE CRIMINAL PENALTIES. DISSEMINATE IN ACCORDANCE WITH PROVISIONS OF DOD DIRECTIVE 5230.25.

THIS DOCUMENT CONTAINS INFORMATION EXEMPT FROM MANDATORY DISCLOSURE UNDER THE FOIA. FOR OFFICIAL USE ONLY



METRIC

QTY REQD	DRAWING OR PART NO.	NOMENCLATURE OR MATERIAL	SPECIFICATION	ITEM NO.
PARTS LIST				
NEXT ASSY	UNLESS OTHERWISE SPECIFIED	ORIGINAL DATE (YR-MO-DA) 13-03-04	U.S. ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND EDGEWOOD CHEMICAL BIOLOGICAL CENTER ABERDEEN PROVING GROUND, MARYLAND, 21010-5424	
	DIMENSIONS ARE IN MM	DRAWN BY JJC	BRACKET, E-STOP	
	TOLERANCES ON:	CHECKER		
	WHOLE NUMBERS ± 1 [.04]	SUBMITTED	SIZE C CAGE CODE 81361 DWG NO. 199-3316	
	1 PLACE DECIMALS ± 0.3 [.012]	DESIGN APPROVAL		
	2 PLACE DECIMALS ± 0.13 [.005]	DRAWING APPROVAL	SCALE 1/1 SHEET	
	3 PLACE DECIMALS ± 0.013 [.0003]	CONTRACT NO.		
	ANGLES ± .5°			
EQUIPMENT CODE NO.	MATERIAL			
	SEE NOTE 4			

FOR REVIEW ONLY

4

3

2

1

NOTES:

1. THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH ASME Y14.100 WITH THE ADDITION OF APPENDICES B THROUGH E.

2. THE FOLLOWING ARE MANDATORY WHEN INDICATED BY ■

■ REMOVE BURRS ■ BREAK SHARP EDGES 0.25 MAX

□ FILLETS R 0.25 MAX

□ 3.2 ALL OVER, EXCEPT AS NOTED

DIMENSIONS APPLY:

■ BEFORE PLATING OR PAINTING

□ AFTER PLATING

□ AFTER PAINTING

■ TOLERANCES ON STOCK MATERIAL SIZES, SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS.

■ ASME Y14.5M-1994 APPLIES

□ FED-STD-H28 APPLIES

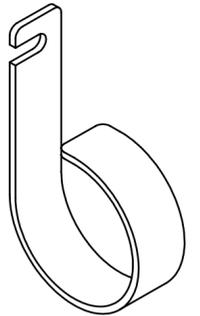
3. METRIC, 1 INCH = 25.4 MM APPLIES.

4. MATERIAL: LOW CARBON STEEL PLATE, 3.18 [.125], IAW ASTM A36.

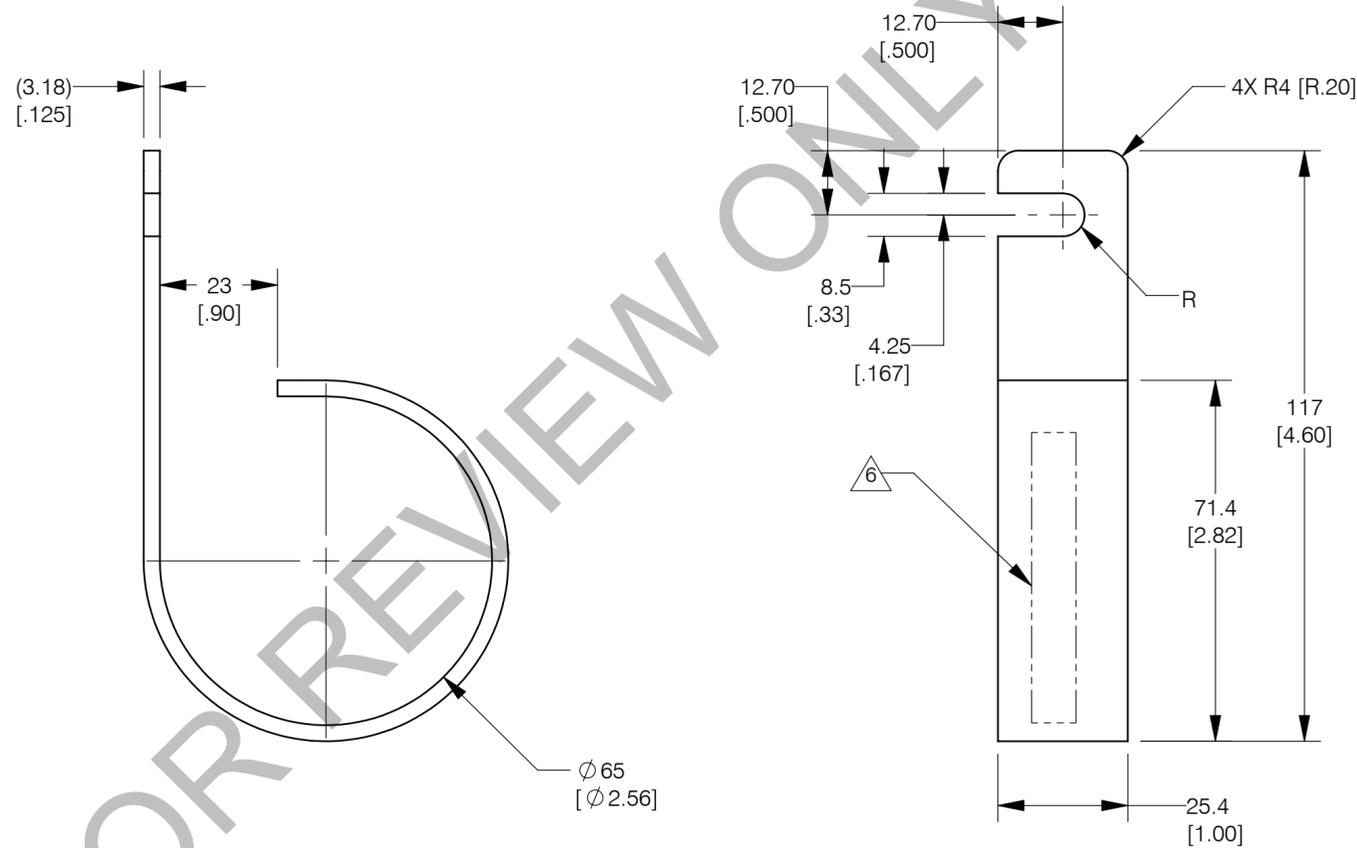
5. FINISH 5.1.1 PLUS 20.4 OF MIL-STD-171, COLOR TAN 33446 PER FED-STD-595.

6. MARKING: RUBBER STAMP, SILKSCREEN OR STEEL STAMP. PERMANENTLY MARK CAGE CODE, PART NUMBER AND REVISION (81361-199-4347-X (X = CURRENT DRAWING REVISION)). CHARACTERS TO BE 3.05 (.12) HIGH AND BLACK IN COLOR PER MIL-STD-130. LOCATE APPROXIMATELY AS SHOWN.

REVISIONS			
LTR	DESCRIPTION	DATE (YR-MO-DA)	APPROVED
Av01	199-4347 - 2013AUG15	13-12-04	MJH



SCALE 1/2



FOR REVIEW ONLY

DISTRIBUTION STATEMENT D. DISTRIBUTION AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND U.S. DOD CONTRACTORS ONLY; CRITICAL TECHNOLOGY; DETERMINATION MADE 00-00-00. OTHER REQUESTS SHALL BE REFERRED TO: TECHNICAL DIRECTOR, EDGWOOD CHEMICAL BIOLOGICAL CENTER, ATTN: RDCB-DEA-D, ABERDEEN PROVING GROUND, MD 21010-5424.

DESTRUCTION NOTICE - DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.

WARNING - THIS DOCUMENT CONTAINS TECHNICAL DATA WHOSE EXPORT IS RESTRICTED BY THE ARMS EXPORT CONTROL ACT (TITLE 22, U.S.C., SEC 2751, et seq.) OR THE EXPORT ADMINISTRATION ACT OF 1979 (TITLE 50, U.S.C., APP. 2401 et seq.), AS AMENDED. VIOLATIONS OF THESE EXPORT LAWS ARE SUBJECT TO SEVERE CRIMINAL PENALTIES. DISSEMINATE IN ACCORDANCE WITH PROVISIONS OF DOD DIRECTIVE 5230.25.

THIS DOCUMENT CONTAINS INFORMATION EXEMPT FROM MANDATORY DISCLOSURE UNDER THE FOIA. FOR OFFICIAL USE ONLY



METRIC

QTY REQD	DRAWING OR PART NO.	NOMENCLATURE OR MATERIAL	SPECIFICATION	ITEM NO.
PARTS LIST				
NEXT ASSY	UNLESS OTHERWISE SPECIFIED	ORIGINAL DATE	U.S. ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND	
199-6531	DIMENSIONS ARE IN MM	13-03-13	EDGWOOD CHEMICAL BIOLOGICAL CENTER	
	TOLERANCES ON:	DRAWN BY	ABERDEEN PROVING GROUND, MARYLAND, 21010-5424	
	WHOLE NUMBERS ± 1 [.04]	JJC	<h1>CABLE CLAMP BRACKET</h1>	
	1 PLACE DECIMALS ± 0.3 [.012]	CHECKER		
	2 PLACE DECIMALS ± 0.13 [.005]	SUBMITTED	SIZE	CAGE CODE
	ANGLES ± 0.5°	DESIGN APPROVAL	C	81361
EQUIPMENT CODE NO.	MATERIAL	DRAWING APPROVAL	DWG NO.	199-4347
	SEE NOTE 4	CONTRACT NO.	SCALE	SHEET
			1/1	

4

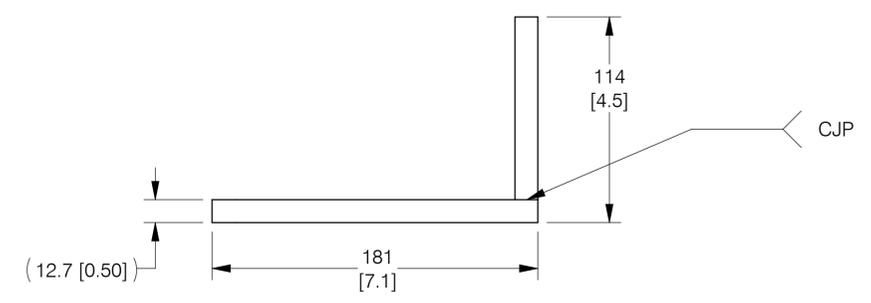
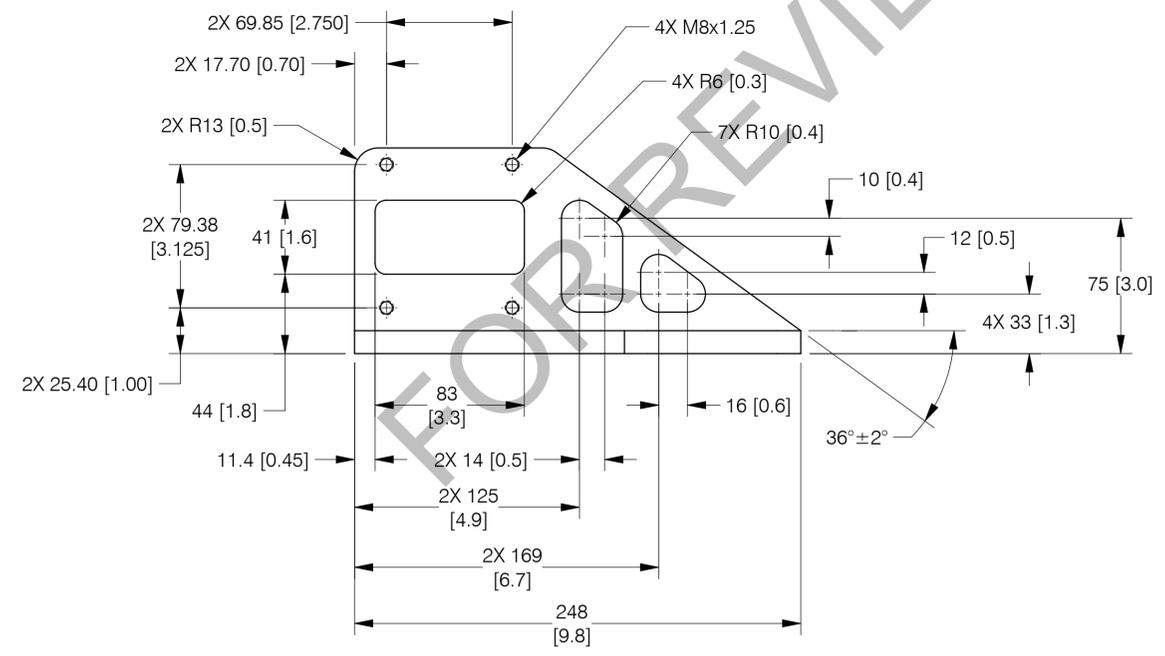
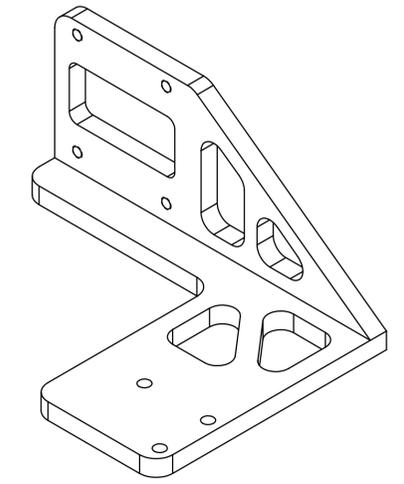
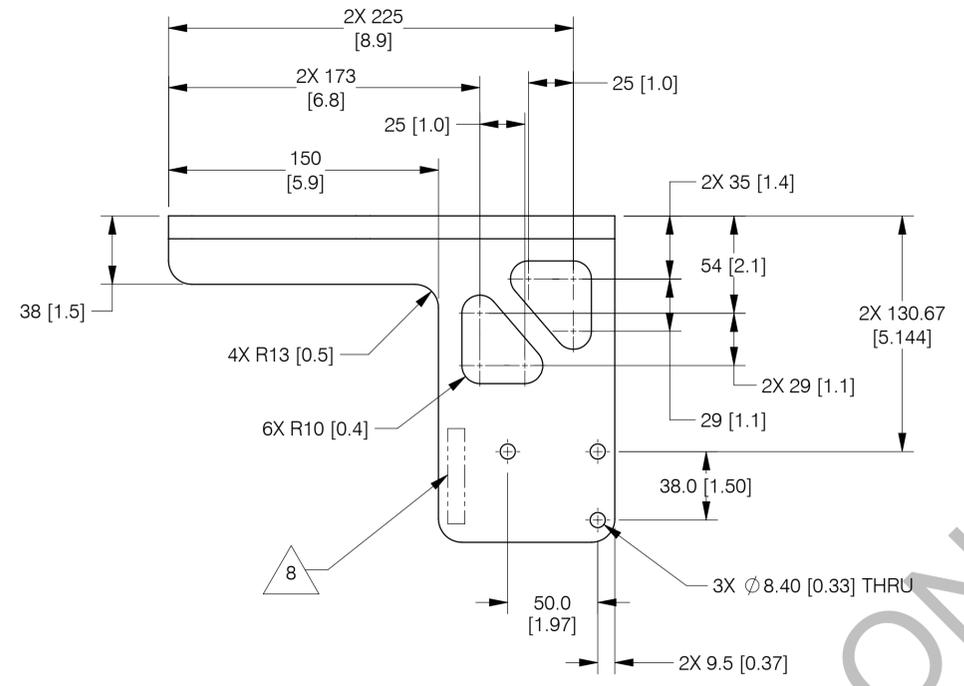
3

2

1

- NOTES:
- THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH ASME Y14.100 WITH THE ADDITION OF APPENDICES B THROUGH E.
  - THE FOLLOWING ARE MANDATORY WHEN INDICATED BY 
    - REMOVE BURRS
    - BREAK SHARP EDGES 0.25 MAX
    - FILLETS R 0.25 MAX.
    - <sup>63</sup> ALL OVER, EXCEPT AS NOTED
  - DIMENSIONS APPLY:
    - BEFORE PLATING OR PAINTING
    - AFTER PLATING
    - AFTER PAINTING
  - TOLERANCES ON STOCK MATERIAL SIZES, SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS.
  - ASME Y14.5M-1994 APPLIES
  - FED-STD-H28 APPLIES
- METRIC, 1 INCH = 25.4 MM APPLIES.
  - MATERIAL: ALUMINUM ALLOY PLATE, .500 THK, 6061-T6 PER ASTM-B209.
  - MASK ALL THREADS PRIOR TO FINISH.
  - FINISH: CHEMICAL CONVERSION COATING PER MIL-DTL-5541, TYPE II, CLASS 3 (COLOR: CLEAR)
  - FINISH 7.1.1 PLUS 20.4 OF MIL-STD-171, COLOR TAN 33446 PER FED-STD-595.
  - 8 MARKING: RUBBER STAMP, SILKSCREEN OR STEEL STAMP, PERMANENTLY MARK CAGE CODE, PART NUMBER AND REVISION (81361-199-4414-X)(X= CURRENT DRAWING REVISION)). CHARACTERS TO BE 3.05[0.12] HIGH AND BLACK IN COLOR PER MIL-STD-130. LOCATE APPROXIMATELY AS SHOWN.

REVISIONS			
LTR	DESCRIPTION	DATE (YR-MO-DA)	APPROVED
-V02	BASELINE RELEASE WITH 199-4144, 12-09-19	13-03-11	SM/MC



DISTRIBUTION STATEMENT D. DISTRIBUTION AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND U.S. DOD CONTRACTORS ONLY; CRITICAL TECHNOLOGY; DETERMINATION MADE 00-00-00. OTHER REQUESTS SHALL BE REFERRED TO: TECHNICAL DIRECTOR, EDGEWOOD CHEMICAL BIOLOGICAL CENTER, ATTN: RDCB-DEA-D, ABERDEEN PROVING GROUND, MD 21010-5424.

DESTRUCTION NOTICE - DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.

WARNING - THIS DOCUMENT CONTAINS TECHNICAL DATA WHOSE EXPORT IS RESTRICTED BY THE ARMS EXPORT CONTROL ACT (TITLE 22, U.S.C., SEC 2751, et seq.) OR THE EXPORT ADMINISTRATION ACT OF 1979 (TITLE 50, U.S.C., APP. 2401 et seq.), AS AMENDED. VIOLATIONS OF THESE EXPORT LAWS ARE SUBJECT TO SEVERE CRIMINAL PENALTIES. DISSEMINATE IN ACCORDANCE WITH PROVISIONS OF DOD DIRECTIVE 5230.25.

THIS DOCUMENT CONTAINS INFORMATION EXEMPT FROM MANDATORY DISCLOSURE UNDER THE FOIA.  
FOR OFFICIAL USE ONLY



METRIC

QTY REQD	DRAWING OR PART NO.	NOMENCLATURE OR MATERIAL	SPECIFICATION	ITEM NO.
PARTS LIST				
NEXT ASSY	199-0800	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MM TOLERANCES ON: WHOLE NUMBERS ± .04 1 PLACE DECIMALS ± 0.3 [0.12] 2 PLACE DECIMALS ± 0.13 [0.05] 2 PLACE DECIMALS ± 0.013 [0.0003] ANGLES ± 0.5°		
EQUIPMENT CODE NO.		MATERIAL	SEE NOTE 4	
ORIGINAL DATE		13-02-28		
DRAWN BY		JJC		
CHECKER				
SUBMITTED				
DESIGN APPROVAL				
DRAWING APPROVAL				
CONTRACT NO.				
U.S. ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND EDGEWOOD CHEMICAL BIOLOGICAL CENTER ABERDEEN PROVING GROUND, MARYLAND, 21010-5424		BRACKET, LOWER CABLE TRAY		
SIZE	CAGE CODE	DWG NO.		
D	81361	199-4414		
SCALE 1/2		SHEET		

8

7

6

5

4

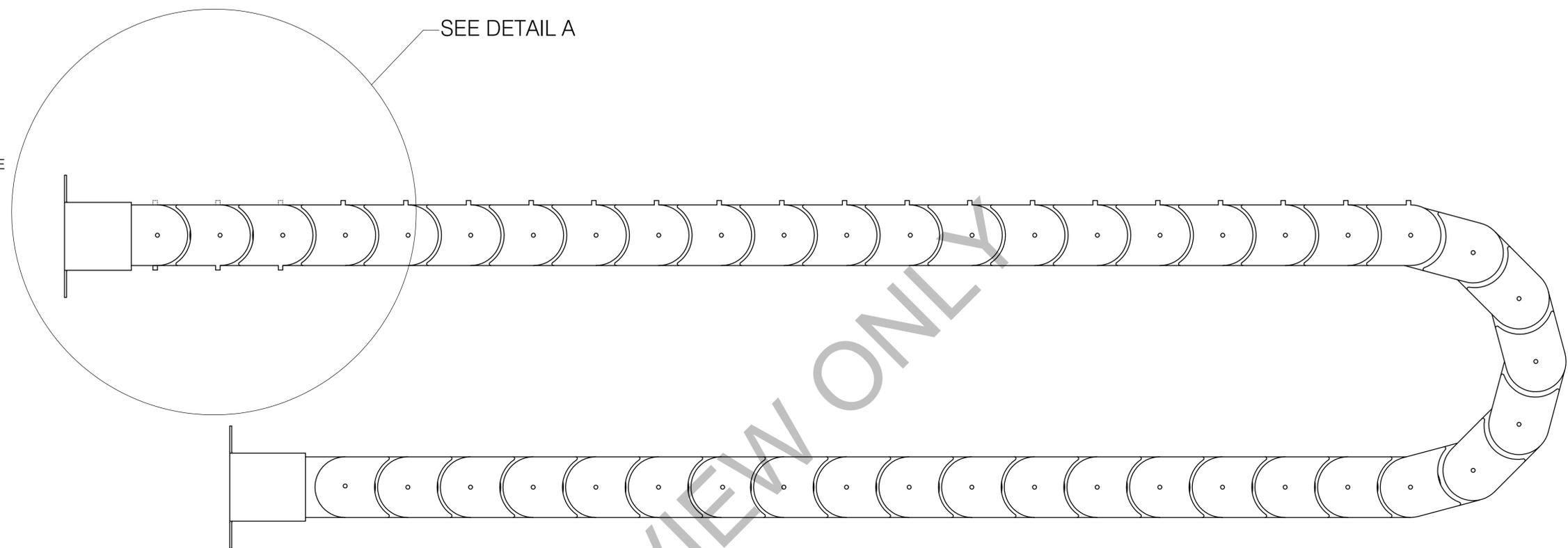
3

2

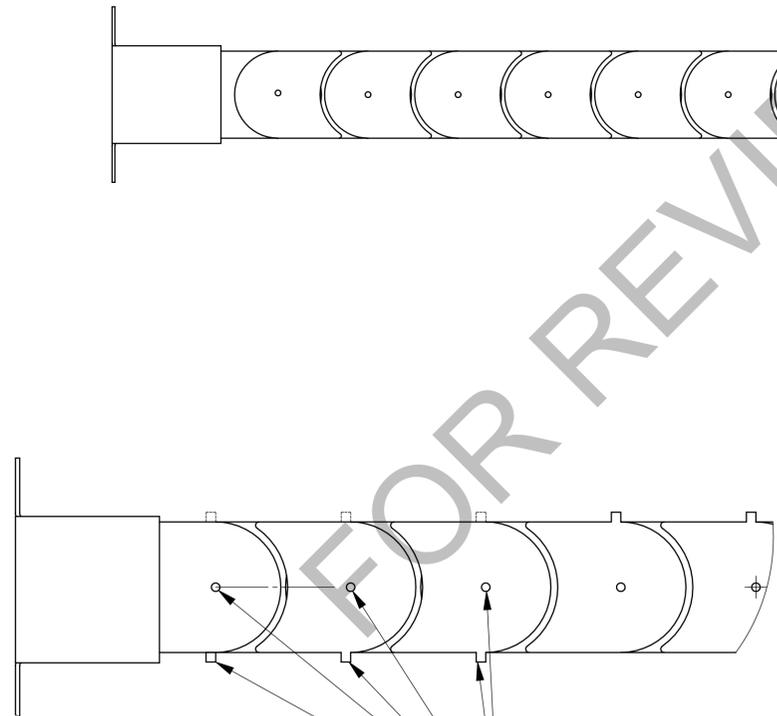
1

- NOTES:
- THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH ASME Y14.100 WITH THE ADDITION OF APPENDICES B THROUGH E.
  - THE FOLLOWING ARE MANDATORY WHEN INDICATED BY ■
    - REMOVE BURRS     BREAK SHARP EDGES .010 MAX
    - FILLETS R .010 MAX.
    - 125° ALL OVER, EXCEPT AS NOTED
  - DIMENSIONS APPLY:
    - BEFORE PLATING OR PAINTING
    - AFTER PLATING
    - AFTER PAINTING
  - TOLERANCES ON STOCK MATERIAL SIZES, SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS.
    - ASME Y14.5M-1994 APPLIES
    - FED-STD-H28 APPLIES

REVISIONS			
LTR	DESCRIPTION	DATE (YR-MO-DA)	APPROVED
-v01	BASELINE RELEASE WITH 199-0800, 12-10-09	13-03-12	SM/MC



- ALTERED FEATURE(S).
- REMOVE EXISTING PINS AND ROTATE FIRST THREE LINKS 180°, REPLACE PINS.
- MAKE FROM 199-15043.



**DETAIL A**  
BOTH ENDS  
SCALE: NONE

DISTRIBUTION STATEMENT D. DISTRIBUTION AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND U.S. DOD CONTRACTORS ONLY; CRITICAL TECHNOLOGY; DETERMINATION MADE 00-00-00. OTHER REQUESTS SHALL BE REFERRED TO: TECHNICAL DIRECTOR, EDGEWOOD CHEMICAL BIOLOGICAL CENTER, ATTN: RDCB-DEA-D, ABERDEEN PROVING GROUND, MD 21010-5424.

DESTRUCTION NOTICE - DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.

WARNING - THIS DOCUMENT CONTAINS TECHNICAL DATA WHOSE EXPORT IS RESTRICTED BY THE ARMS EXPORT CONTROL ACT (TITLE 22, U.S.C., SEC 2751, et seq.) OR THE EXPORT ADMINISTRATION ACT OF 1979 (TITLE 50, U.S.C., APP. 2401 et seq.), AS AMENDED. VIOLATIONS OF THESE EXPORT LAWS ARE SUBJECT TO SEVERE CRIMINAL PENALTIES. DISSEMINATE IN ACCORDANCE WITH PROVISIONS OF DOD DIRECTIVE 5230.25.

THIS DOCUMENT CONTAINS INFORMATION EXEMPT FROM MANDATORY DISCLOSURE UNDER THE FOIA.  
**FOR OFFICIAL USE ONLY**

**ALTERED ITEM DRAWING**

QTY REQD	DRAWING OR PART NO.	NOMENCLATURE OR MATERIAL	SPECIFICATION	ITEM NO.
PARTS LIST				
NEXT ASSY 199-0800	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005 FRACTIONS ± 1/32 ANGLES ± 0° 30'	ORIGINAL DATE 13-03-12 DRAWN BY JJC CHECKER	U.S. ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND EDGEWOOD CHEMICAL BIOLOGICAL CENTER ABERDEEN PROVING GROUND, MARYLAND, 21010-5424	
EQUIPMENT CODE NO.	MATERIAL	DESIGN APPROVAL	<b>FLEXIBLE CABLE RUN, MODIFIED</b>	
		DRAWING APPROVAL		
		CONTRACT NO.	SIZE D	CAGE CODE 81361
			DWG NO. 199-4424	
			SCALE 1/2	SHEET

8

7

6

5

4

3

2

1

4

3

2

1

NOTES:

1. THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH ASME Y14.100 WITH THE ADDITION OF APPENDICES B THROUGH E.

2. THE FOLLOWING ARE MANDATORY WHEN INDICATED BY ■

■ REMOVE BURRS ■ BREAK SHARP EDGES 0.25 MAX

□ FILLETS R 0.25 MAX

□ 3.2 ✓ ALL OVER, EXCEPT AS NOTED

DIMENSIONS APPLY:

■ BEFORE PLATING OR PAINTING

□ AFTER PLATING

□ AFTER PAINTING

■ TOLERANCES ON STOCK MATERIAL SIZES, SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS.

■ ASME Y14.5M-1994 APPLIES

□ FED-STD-H28 APPLIES

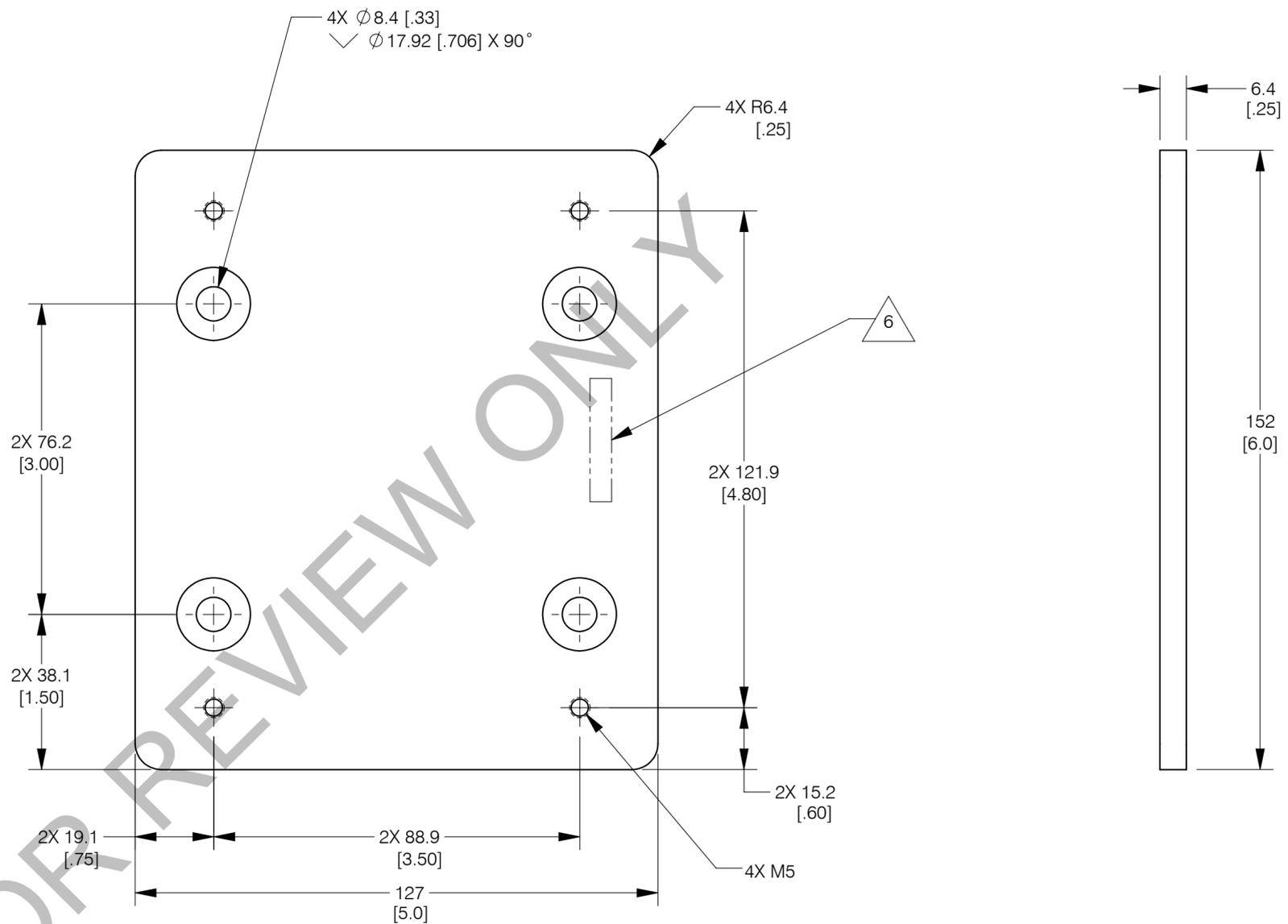
3. METRIC, 1 INCH = 25.4 MM APPLIES.

4. ALUMINUM PLATE, 6.4 [.25] THICK, 6061 IAW ASTM B221 OR EQUIVALENT.

5. FINISH 7.3.3 PLUS 20.4 OF MIL-STD-171, COLOR TAN 33446 PER FED-STD-595.

6. MARKING: RUBBER STAMP, SILKSCREEN OR STEEL STAMP, PERMANENTLY MARK CAGE CODE, PART NO. AND REVISION (81361-199-6363-X) (X= CURRENT DRAWING REVISION). CHARACTERS TO BE 3.05 [0.12] HIGH AND BLACK IN COLOR PER MIL-STD-130. LOCATE APPROXIMATELY AS SHOWN.

REVISIONS			
LTR	DESCRIPTION	DATE (YR-MO-DA)	APPROVED
-v01	BASELINE RELEASE WITH 199-6363, 13-01-15	13-04-18	SM/MC



DISTRIBUTION STATEMENT D. DISTRIBUTION AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND U.S. DOD CONTRACTORS ONLY; CRITICAL TECHNOLOGY; DETERMINATION MADE 00-00-00. OTHER REQUESTS SHALL BE REFERRED TO: TECHNICAL DIRECTOR, EDGEWOOD CHEMICAL BIOLOGICAL CENTER, ATTN: RDCB-DEA-D, ABERDEEN PROVING GROUND, MD 21010-5424.

DESTRUCTION NOTICE - DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.

WARNING - THIS DOCUMENT CONTAINS TECHNICAL DATA WHOSE EXPORT IS RESTRICTED BY THE ARMS EXPORT CONTROL ACT (TITLE 22, U.S.C., SEC 2751, et seq.) OR THE EXPORT ADMINISTRATION ACT OF 1979 (TITLE 50, U.S.C., APP. 2401 et seq.), AS AMENDED. VIOLATIONS OF THESE EXPORT LAWS ARE SUBJECT TO SEVERE CRIMINAL PENALTIES. DISSEMINATE IN ACCORDANCE WITH PROVISIONS OF DOD DIRECTIVE 5230.25.

THIS DOCUMENT CONTAINS INFORMATION EXEMPT FROM MANDATORY DISCLOSURE UNDER THE FOIA. FOR OFFICIAL USE ONLY



METRIC

QTY REQD	DRAWING OR PART NO.	NOMENCLATURE OR MATERIAL	SPECIFICATION	ITEM NO.
PARTS LIST				
NEXT ASSY	UNLESS OTHERWISE SPECIFIED	ORIGINAL DATE (YR-MO-DA)	U.S. ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND EDGEWOOD CHEMICAL BIOLOGICAL CENTER ABERDEEN PROVING GROUND, MARYLAND, 21010-5424	
199-5969	DIMENSIONS ARE IN MM TOLERANCES ON: WHOLE NUMBERS ± 1 [.04] 1 PLACE DECIMALS ± 0.3 [.012] 2 PLACE DECIMALS ± 0.13 [.005] ANGLES ± 0.5°	DRAWN BY JJC		
		CHECKER	BRACKET 1, MARKING PUMP	
		SUBMITTED		
		DESIGN APPROVAL	SIZE C	CAGE CODE 81361
		DRAWING APPROVAL	DWG NO. 199-6363	
		CONTRACT NO.	SCALE 1/1	SHEET
EQUIPMENT CODE NO.				

4

3

2

1

NOTES:

1. THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH ASME Y14.100 WITH THE ADDITION OF APPENDICES B THROUGH E.

2. THE FOLLOWING ARE MANDATORY WHEN INDICATED BY ■

■ REMOVE BURRS ■ BREAK SHARP EDGES 0.25 MAX

□ FILLETS R 0.25 MAX

□ 3.2 ✓ ALL OVER, EXCEPT AS NOTED

DIMENSIONS APPLY:

■ BEFORE PLATING OR PAINTING

□ AFTER PLATING

□ AFTER PAINTING

■ TOLERANCES ON STOCK MATERIAL SIZES, SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS.

■ ASME Y14.5M-1994 APPLIES

□ FED-STD-H28 APPLIES

3. METRIC, 1 INCH = 25.4 MM APPLIES.

4. ALUMINUM ALLOY PLATE, 6.4 [.25] THICK, 6061 IAW ASTM B221 OR EQUIVALENT.

5. FINISH 7.3.3 PLUS 20.4 OF MIL-STD-171, COLOR TAN 33446 PER FED-STD-595.

6. MARKING: RUBBER STAMP, SILKSCREEN OR STEEL STAMP, PERMANENTLY MARK CAGE CODE, PART NO. AND REVISION (81361-199-6364-X) (X= CURRENT DRAWING REVISION). CHARACTERS TO BE 3.05 [0.12] HIGH AND BLACK IN COLOR PER MIL-STD-130. LOCATE APPROXIMATELY AS SHOWN.

REVISIONS			
LTR	DESCRIPTION	DATE (YR-MO-DA)	APPROVED
-v01	BASELINE RELEASE WITH 199-6364, 13-01-15	13-04-18	SM/MC

4X Ø8.4 [.33] THRU

4X R6.4 [.25]

6

2X 19.1 [.75]

2X 88.9 [3.50]

2X 76.2 [3.00]

2X 25.4 [1.00]

127 [5.0]

6.4 [.25]

127 [5.0]

DISTRIBUTION STATEMENT D. DISTRIBUTION AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND U.S. DOD CONTRACTORS ONLY; CRITICAL TECHNOLOGY; DETERMINATION MADE 00-00-00. OTHER REQUESTS SHALL BE REFERRED TO: TECHNICAL DIRECTOR, EDGEWOOD CHEMICAL BIOLOGICAL CENTER, ATTN: RDCB-DEA-D, ABERDEEN PROVING GROUND, MD 21010-5424.

DESTRUCTION NOTICE - DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.

WARNING - THIS DOCUMENT CONTAINS TECHNICAL DATA WHOSE EXPORT IS RESTRICTED BY THE ARMS EXPORT CONTROL ACT (TITLE 22, U.S.C., SEC 2751, et seq.) OR THE EXPORT ADMINISTRATION ACT OF 1979 (TITLE 50, U.S.C., APP. 2401 et seq.), AS AMENDED. VIOLATIONS OF THESE EXPORT LAWS ARE SUBJECT TO SEVERE CRIMINAL PENALTIES. DISSEMINATE IN ACCORDANCE WITH PROVISIONS OF DOD DIRECTIVE 5230.25.

THIS DOCUMENT CONTAINS INFORMATION EXEMPT FROM MANDATORY DISCLOSURE UNDER THE FOIA.  
FOR OFFICIAL USE ONLY

THIRD ANGLE PROJECTION

METRIC

QTY REQD	DRAWING OR PART NO.	NOMENCLATURE OR MATERIAL	SPECIFICATION	ITEM NO.
PARTS LIST				
NEXT ASSY	UNLESS OTHERWISE SPECIFIED	ORIGINAL DATE	U.S. ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND	
199-5969	DIMENSIONS ARE IN MM	13-04-18	EDGEWOOD CHEMICAL BIOLOGICAL CENTER	
	TOLERANCES ON:	DRAWN BY	ABERDEEN PROVING GROUND, MARYLAND, 21010-5424	
	WHOLE NUMBERS ± 1 [.04]	JJC	<b>BRACKET 2, MARKING PUMP</b>	
	1 PLACE DECIMALS ± 0.3 [.012]	CHECKER		
	2 PLACE DECIMALS ± 0.13 [.005]	SUBMITTED	SIZE	CAGE CODE
	ANGLES ± 0.5°	DESIGN APPROVAL	C	81361
	MATERIAL	DRAWING APPROVAL	DWG NO.	199-6364
EQUIPMENT CODE NO.		CONTRACT NO.	SCALE	SHEET
			1/1	

4

3

2

1

C:\workspace\199-6364.SLDDRW 1 5/24/2013 12:50:04 PM by john.call4

NOTES:

- THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH ASME Y14.100 WITH THE ADDITION OF APPENDICES B THROUGH E.
- THE FOLLOWING ARE MANDATORY WHEN INDICATED BY
  - REMOVE BURRS
  - BREAK SHARP EDGES 0.25 MAX
  - FILLET R 0.25 MAX.
  - 3.2 ALL OVER, EXCEPT AS NOTED
- METRIC, 1 INCH = 25.4 MM APPLIES.
- MATERIAL: ALUMINUM ALLOY ROUND TUBING, 88.9 [3.50] OD X 6.35 [.250] THK WALL, 6061-T6 IAW ASTM B241 OR EQUIVALENT.
- MATERIAL: ALUMINUM ALLOY PLATE, 3.2 [.125] THK, 6061-T6 IAW ASTM B209.
- MATERIAL: ALUMINUM ALLOY CHANNEL, 25.4 [1.00] X 50.8 [2.00] X 3.2 [.125] THK WALL, 6063 IAW ASTM B221 OR EQUIVALENT.
- MATERIAL: ALUMINUM ALLOY PLATE, 6.35 [.250] THK, 6061-T6 IAW ASTM B209 OR EQUIVALENT.
- FINISH 7.3.3 PLUS 20.4 OF MIL-STD-171, COLOR TAN 33446 PER FED-STD-595.
- MARKING: RUBBER STAMP, SILKSCREEN OR STEEL STAMP, PERMANENTLY MARK CAGE CODE, PART NO. AND REVISION (81361-199-7026-X) (X= CURRENT DRAWING REVISION). CHARACTERS TO BE 3.05 [0.12] HIGH AND BLACK IN COLOR PER MIL-STD-130. LOCATE APPROXIMATELY AS SHOWN.
- WELD AND INSPECT PER AWS D1.2.

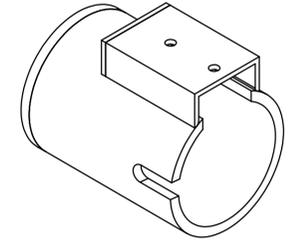
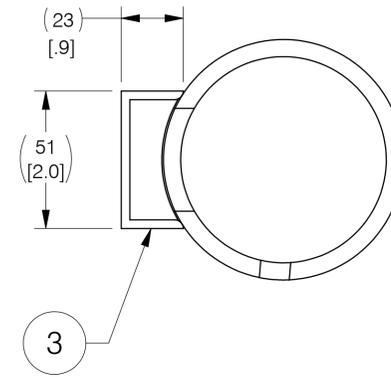
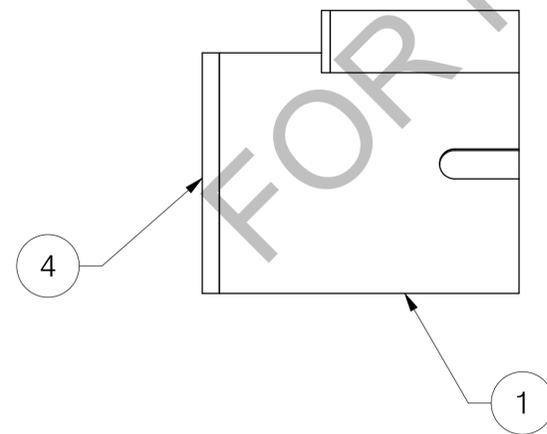
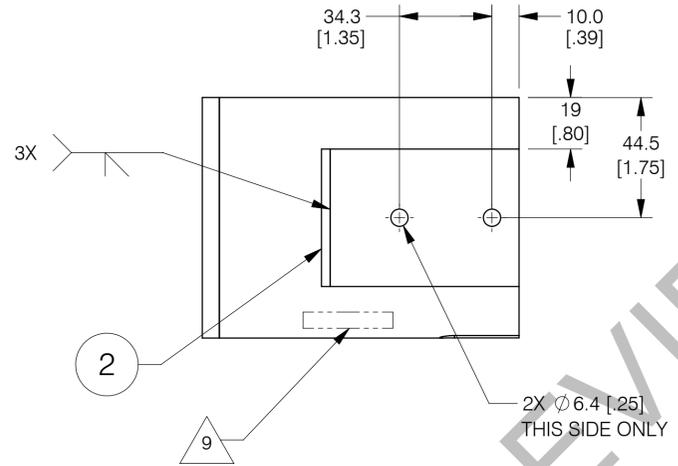
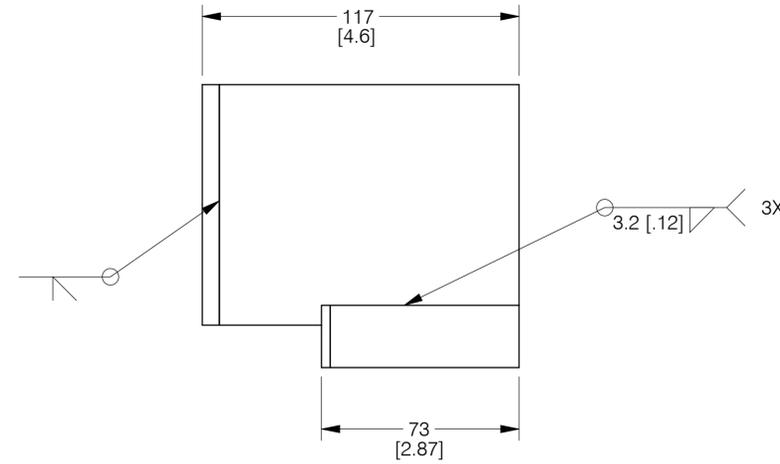
DISTRIBUTION STATEMENT D. DISTRIBUTION AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND U.S. DOD CONTRACTORS ONLY; CRITICAL TECHNOLOGY; DETERMINATION MADE 00-00-00. OTHER REQUESTS SHALL BE REFERRED TO: TECHNICAL DIRECTOR, EDGEWOOD CHEMICAL BIOLOGICAL CENTER, ATTN: RDCB-DEA-D, ABERDEEN PROVING GROUND, MD 21010-5424.

DESTRUCTION NOTICE - DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.

WARNING - THIS DOCUMENT CONTAINS TECHNICAL DATA WHOSE EXPORT IS RESTRICTED BY THE ARMS EXPORT CONTROL ACT (TITLE 22, U.S.C., SEC 2751, et seq.) OR THE EXPORT ADMINISTRATION ACT OF 1979 (TITLE 50, U.S.C., APP. 2401 et seq.), AS AMENDED. VIOLATIONS OF THESE EXPORT LAWS ARE SUBJECT TO SEVERE CRIMINAL PENALTIES. DISSEMINATE IN ACCORDANCE WITH PROVISIONS OF DOD DIRECTIVE 5230.25.

THIS DOCUMENT CONTAINS INFORMATION EXEMPT FROM MANDATORY DISCLOSURE UNDER THE FOIA.  
FOR OFFICIAL USE ONLY

REVISIONS			
LTR	DESCRIPTION	DATE (YR-MO-DA)	APPROVED
-v01	BASELINE RELEASE WITH 199-7026, 13-01-15	13-05-01	SM/MC



QTY REQD	DRAWING OR PART NO.	NOMENCLATURE OR MATERIAL	SPECIFICATION	ITEM NO.
1	-4	SEE NOTE 7		4
1	-3	SEE NOTE 6		3
1	-2	SEE NOTE 5		2
1	-1	SEE NOTE 4		1

PARTS LIST				
1	-4	SEE NOTE 7		4
1	-3	SEE NOTE 6		3
1	-2	SEE NOTE 5		2
1	-1	SEE NOTE 4		1

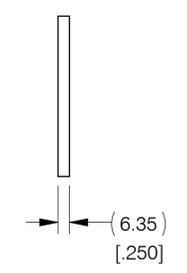
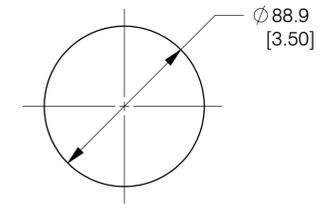
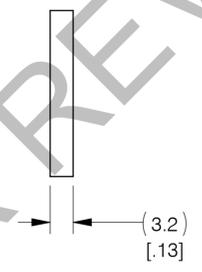
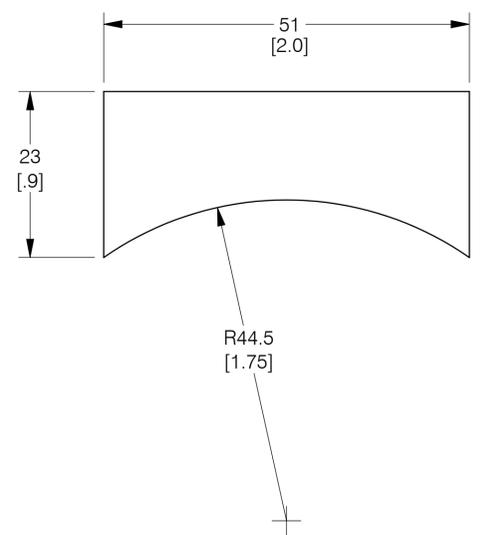
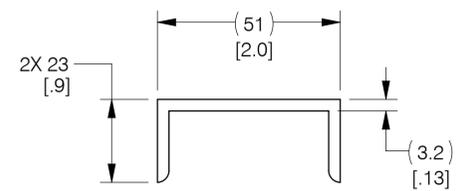
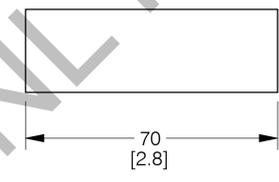
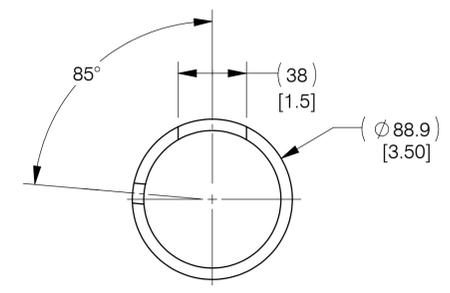
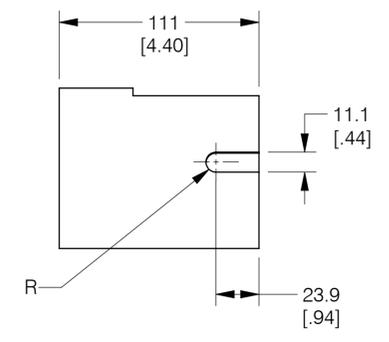
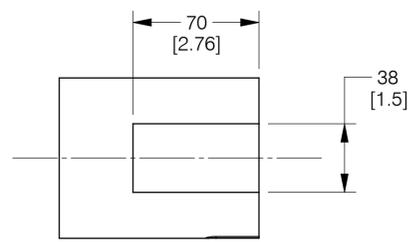
NEXT ASSY 199-8381	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MM TOLERANCES ON: WHOLE NUMBERS ± 1 [.04] 1 PLACE DECIMALS ± 0.3 [.012] 2 PLACE DECIMALS ± 0.13 [.005] ANGLES ± 0.5°	ORIGINAL DATE 13-05-01	U.S. ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND EDGEWOOD CHEMICAL BIOLOGICAL CENTER ABERDEEN PROVING GROUND, MARYLAND, 21010-5424	
EQUIPMENT CODE NO.	MATERIAL	DRAWN BY JJC	GUARD, SOLENOID	
		CHECKER		
		DESIGN APPROVAL		
		DRAWING APPROVAL		
		CONTRACT NO.	SIZE D	CAGE CODE 81361
			DWG NO. 199-7026	
			SCALE NONE	SHEET 1 OF 2

THIRD ANGLE PROJECTION

METRIC

REVISIONS			
LTR	DESCRIPTION	DATE (YR-MO-DA)	APPROVED
-v01	BASELINE RELEASE WITH 199-7026, 13-01-15	13-05-01	SM/MC

- NOTES:
- THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH ASME Y14.100 WITH THE ADDITION OF APPENDICES B THROUGH E.
  - THE FOLLOWING ARE MANDATORY WHEN INDICATED BY ■
    - REMOVE BURRS
    - BREAK SHARP EDGES 0.25 MAX
    - FILLETS R 0.25 MAX.
    - 3.2 ALL OVER, EXCEPT AS NOTED
  - METRIC, 1 INCH = 25.4 MM APPLIES.
- DIMENSIONS APPLY:
- BEFORE PLATING OR PAINTING
  - AFTER PLATING
  - AFTER PAINTING
- TOLERANCES ON STOCK MATERIAL SIZES, SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS.
- ASME Y14.5M-1994 APPLIES
  - FED-STD-H28 APPLIES



DISTRIBUTION STATEMENT D. DISTRIBUTION AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND U.S. DOD CONTRACTORS ONLY; CRITICAL TECHNOLOGY; DETERMINATION MADE 00-00-00. OTHER REQUESTS SHALL BE REFERRED TO: TECHNICAL DIRECTOR, EDGEWOOD CHEMICAL BIOLOGICAL CENTER, ATTN: RDCB-DEA-D, ABERDEEN PROVING GROUND, MD 21010-5424.

DESTRUCTION NOTICE - DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.

WARNING - THIS DOCUMENT CONTAINS TECHNICAL DATA WHOSE EXPORT IS RESTRICTED BY THE ARMS EXPORT CONTROL ACT (TITLE 22, U.S.C., SEC 2751, et seq.) OR THE EXPORT ADMINISTRATION ACT OF 1979 (TITLE 50, U.S.C., APP. 2401 et seq.), AS AMENDED. VIOLATIONS OF THESE EXPORT LAWS ARE SUBJECT TO SEVERE CRIMINAL PENALTIES. DISSEMINATE IN ACCORDANCE WITH PROVISIONS OF DOD DIRECTIVE 5230.25.

THIS DOCUMENT CONTAINS INFORMATION EXEMPT FROM MANDATORY DISCLOSURE UNDER THE FOIA.  
FOR OFFICIAL USE ONLY

FOR REVIEW ONLY

QTY REQD	DRAWING OR PART NO.	NOMENCLATURE OR MATERIAL	SPECIFICATION	ITEM NO.
PARTS LIST				
NEXT ASSY 199-8381	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MM TOLERANCES ON: WHOLE NUMBERS ± 1 [.04] 1 PLACE DECIMALS ± 0.3 [.012] 2 PLACE DECIMALS ± 0.13 [.005] ANGLES ± 0.5°	ORIGINAL DATE 13-05-01	U.S. ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND EDGEWOOD CHEMICAL BIOLOGICAL CENTER ABERDEEN PROVING GROUND, MARYLAND, 21010-5424	
		DRAWN BY JJC	<h2>GUARD, SOLENOID</h2>	
		CHECKER		
		DESIGN APPROVAL		
		DRAWING APPROVAL		
EQUIPMENT CODE NO.		CONTRACT NO.	SIZE D	CAGE CODE 81361
			DWG NO. 199-7026	
			SCALE NONE	SHEET 2 OF 2

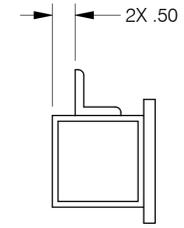
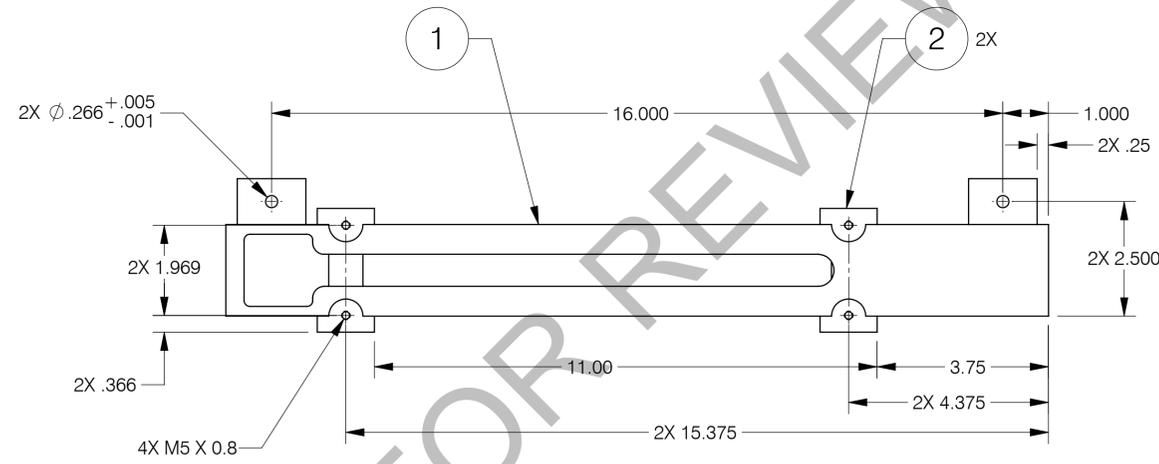
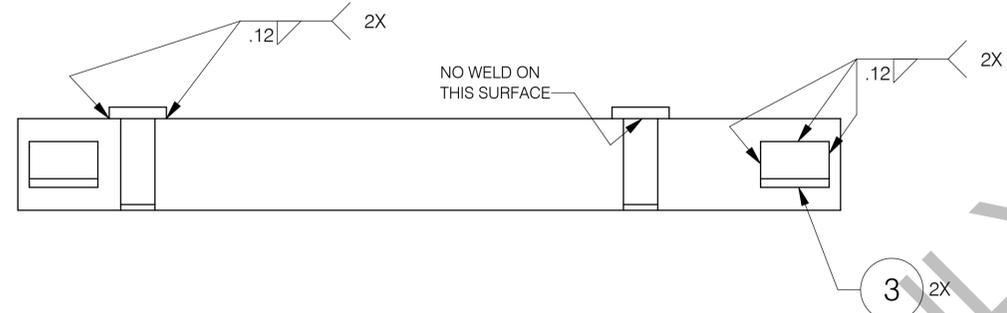
THIRD ANGLE PROJECTION

METRIC

NOTES:

- 1. THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH ASME Y14.100 WITH THE ADDITION OF APPENDICES B THROUGH E.
  - 2. THE FOLLOWING ARE MANDATORY WHEN INDICATED BY ■
    - REMOVE BURRS    ■ BREAK SHARP EDGES .010 MAX
    - FILLETS R .010 MAX.
    - <sup>125</sup> ALL OVER, EXCEPT AS NOTED
  - DIMENSIONS APPLY:
    - BEFORE PLATING OR PAINTING
    - AFTER PLATING
    - AFTER PAINTING
  - TOLERANCES ON STOCK MATERIAL SIZES, SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS.
  - ASME Y14.5M-1994 APPLIES
  - FED-STD-H28 APPLIES
3. FINISH 7.1.1 PLUS 20.24 OF MIL-STD-171, COLOR TAN 33446 PER FED-STD-595.

REVISIONS			
LTR	DESCRIPTION	DATE (YR-MO-DA)	APPROVED
-V07	BASELINE RELEASE	13-03-07	SM/MC



FOR REVIEW ONLY

DISTRIBUTION STATEMENT D. DISTRIBUTION AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND U.S. DOD CONTRACTORS ONLY; CRITICAL TECHNOLOGY; DETERMINATION MADE 00-00-00. OTHER REQUESTS SHALL BE REFERRED TO: TECHNICAL DIRECTOR, EDGEWOOD CHEMICAL BIOLOGICAL CENTER, ATTN: RDCB-DEA-D, ABERDEEN PROVING GROUND, MD 21010-5424.

DESTRUCTION NOTICE - DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.

WARNING - THIS DOCUMENT CONTAINS TECHNICAL DATA WHOSE EXPORT IS RESTRICTED BY THE ARMS EXPORT CONTROL ACT (TITLE 22, U.S.C., SEC 2751, et seq.) OR THE EXPORT ADMINISTRATION ACT OF 1979 (TITLE 50, U.S.C., APP. 2401 et seq.), AS AMENDED. VIOLATIONS OF THESE EXPORT LAWS ARE SUBJECT TO SEVERE CRIMINAL PENALTIES. DISSEMINATE IN ACCORDANCE WITH PROVISIONS OF DOD DIRECTIVE 5230.25.

THIS DOCUMENT CONTAINS INFORMATION EXEMPT FROM MANDATORY DISCLOSURE UNDER THE FOIA. FOR OFFICIAL USE ONLY

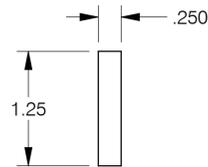
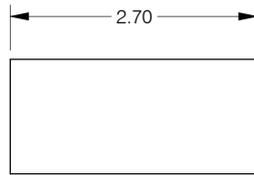
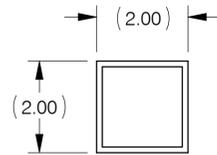
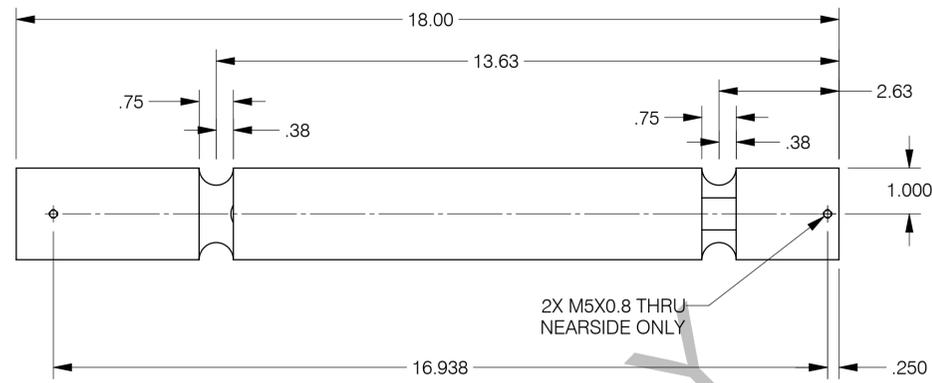
2	-3	ALUMINUM ALLOY ANGLE, 6061-T6, 1.00 X 1.00 X .187 THK	ASTM B308	3
1	-2	ALUMINUM ALLOY SQUARE TUBING, 6063-T6, 2.00 X 2.00 X .125 THK	ASTM B221	2
2	-1	ALUMINUM ALLOY PLATE, 6061-T6, .25 THK	ASTM B209	1
QTY REQD	DRAWING OR PART NO.	NOMENCLATURE OR MATERIAL	SPECIFICATION	ITEM NO.

PARTS LIST

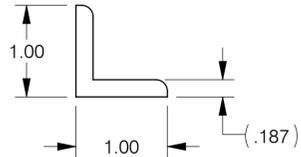
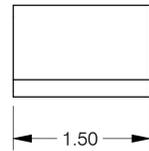
NEXT ASSY	UNLESS OTHERWISE SPECIFIED	ORIGINAL DATE	12-05-03		
199-0173	DIMENSIONS ARE IN INCHES	DRAWN BY	HSW		
	TOLERANCES ON:	CHECKER			
	2 PLACE DECIMALS ± .01	SUBMITTED			
	3 PLACE DECIMALS ± .005	DESIGN APPROVAL			
	FRACTIONS ± 1/32	DRAWING APPROVAL			
	ANGLES ± 0° 30'	CONTRACT NO.			
EQUIPMENT CODE NO.	MATERIAL	U.S. ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND EDGEWOOD CHEMICAL BIOLOGICAL CENTER ABERDEEN PROVING GROUND, MARYLAND, 21010-5424			
		<b>LINEAR TRANSDUCER MOUNT, RIGHT</b>			
		SIZE	CAGE CODE	DWG NO.	
		D	81361	199-7029	
		SCALE	1/2		SHEET 1 OF 2

- NOTES:
- THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH ASME Y14.100 WITH THE ADDITION OF APPENDICES B THROUGH E.
  - THE FOLLOWING ARE MANDATORY WHEN INDICATED BY ■
    - REMOVE BURRS ■ BREAK SHARP EDGES .010 MAX
    - FILLETS R .010 MAX.
    - $125^\circ$  ALL OVER, EXCEPT AS NOTED
- DIMENSIONS APPLY:
- BEFORE PLATING OR PAINTING
  - AFTER PLATING
  - AFTER PAINTING
- TOLERANCES ON STOCK MATERIAL SIZES, SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS.
- ASME Y14.5M-1994 APPLIES
  - FED-STD-H28 APPLIES

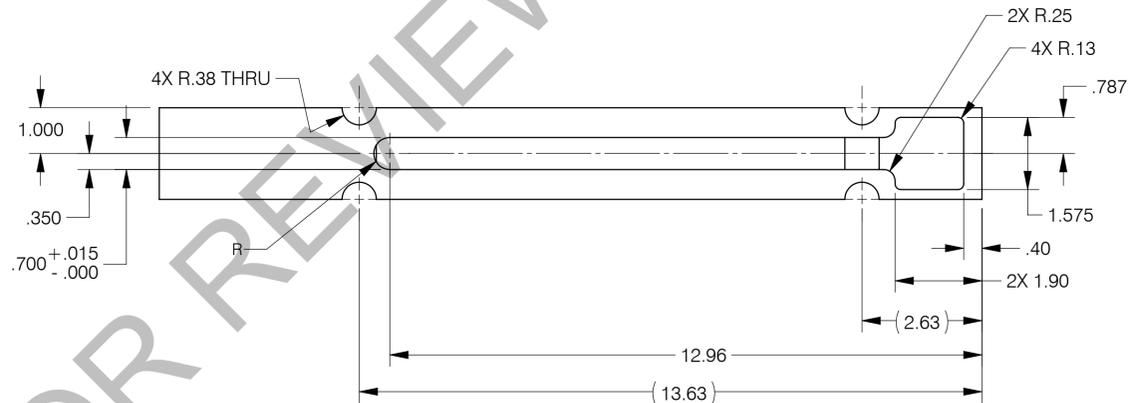
REVISIONS			
LTR	DESCRIPTION	DATE (YR-MO-DA)	APPROVED
-v07	BASELINE RELEASE	13-03-12	SM/MC



SCALE 1/1  
-1



SCALE 1/1  
-3



-2

DISTRIBUTION STATEMENT D. DISTRIBUTION AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND U.S. DOD CONTRACTORS ONLY; CRITICAL TECHNOLOGY; DETERMINATION MADE 00-00-00. OTHER REQUESTS SHALL BE REFERRED TO: TECHNICAL DIRECTOR, EDGEWOOD CHEMICAL BIOLOGICAL CENTER, ATTN: RDCB-DEA-D, ABERDEEN PROVING GROUND, MD 21010-5424.

DESTRUCTION NOTICE - DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.

WARNING - THIS DOCUMENT CONTAINS TECHNICAL DATA WHOSE EXPORT IS RESTRICTED BY THE ARMS EXPORT CONTROL ACT (TITLE 22, U.S.C., SEC 2751, et seq.) OR THE EXPORT ADMINISTRATION ACT OF 1979 (TITLE 50, U.S.C., APP. 2401 et seq.), AS AMENDED. VIOLATIONS OF THESE EXPORT LAWS ARE SUBJECT TO SEVERE CRIMINAL PENALTIES. DISSEMINATE IN ACCORDANCE WITH PROVISIONS OF DOD DIRECTIVE 5230.25.

THIS DOCUMENT CONTAINS INFORMATION EXEMPT FROM MANDATORY DISCLOSURE UNDER THE FOIA. FOR OFFICIAL USE ONLY

QTY REQD	DRAWING OR PART NO.	NOMENCLATURE OR MATERIAL	SPECIFICATION	ITEM NO.
PARTS LIST				
NEXT ASSY 199-0173	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005 FRACTIONS ± 1/32 ANGLES ± 0° 30'	ORIGINAL DATE 12-05-03 DRAWN BY HSW CHECKER	U.S. ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND EDGEWOOD CHEMICAL BIOLOGICAL CENTER ABERDEEN PROVING GROUND, MARYLAND, 21010-5424	
EQUIPMENT CODE NO.	MATERIAL	DESIGN APPROVAL	<b>LINEAR TRANSDUCER MOUNT, RIGHT</b>	
		DRAWING APPROVAL		
		CONTRACT NO.	SIZE D	CAGE CODE 81361
			DWG NO. 199-7029	
			SCALE 1/2	SHEET 2 OF 2

FOR REVIEW ONLY

8

7

6

5

4

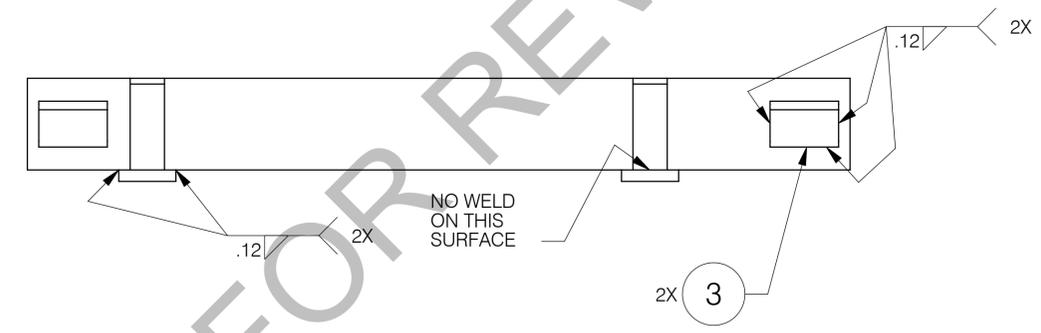
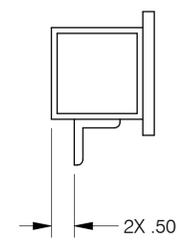
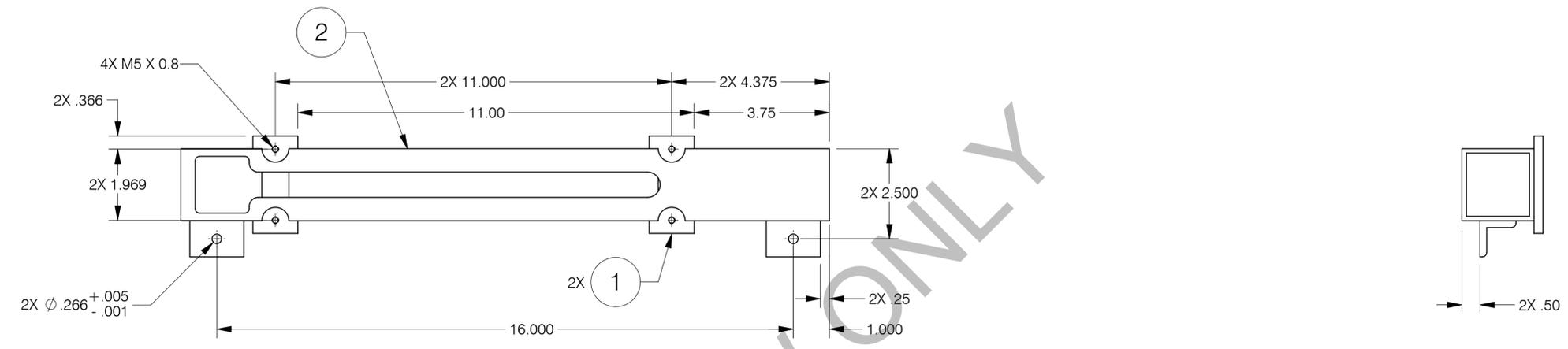
3

2

1

- NOTES:
- THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH ASME Y14.100 WITH THE ADDITION OF APPENDICES B THROUGH E.
  - THE FOLLOWING ARE MANDATORY WHEN INDICATED BY ■
    - REMOVE BURRS ■ BREAK SHARP EDGES .010 MAX
    - FILLETED R .010 MAX.
    - 125 ALL OVER, EXCEPT AS NOTED
  - FINISH 7.1.1 PLUS 20.4 OF MIL-STD-171, COLOR TAN 33446 PER FED-STD-595.

REVISIONS			
LTR	DESCRIPTION	DATE (YR-MO-DA)	APPROVED
-V06	BASELINE RELEASE	13-03-07	SM/MC



FOR REVIEW ONLY

DISTRIBUTION STATEMENT D. DISTRIBUTION AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND U.S. DOD CONTRACTORS ONLY; CRITICAL TECHNOLOGY; DETERMINATION MADE 00-00-00. OTHER REQUESTS SHALL BE REFERRED TO: TECHNICAL DIRECTOR, EDGEWOOD CHEMICAL BIOLOGICAL CENTER, ATTN: RDCB-DEA-D, ABERDEEN PROVING GROUND, MD 21010-5424.

DESTRUCTION NOTICE - DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.

WARNING - THIS DOCUMENT CONTAINS TECHNICAL DATA WHOSE EXPORT IS RESTRICTED BY THE ARMS EXPORT CONTROL ACT (TITLE 22, U.S.C., SEC 2751, et seq.) OR THE EXPORT ADMINISTRATION ACT OF 1979 (TITLE 50, U.S.C., APP. 2401 et seq.), AS AMENDED. VIOLATIONS OF THESE EXPORT LAWS ARE SUBJECT TO SEVERE CRIMINAL PENALTIES. DISSEMINATE IN ACCORDANCE WITH PROVISIONS OF DOD DIRECTIVE 5230.25.

THIS DOCUMENT CONTAINS INFORMATION EXEMPT FROM MANDATORY DISCLOSURE UNDER THE FOIA. FOR OFFICIAL USE ONLY

2	-3	ALUMINUM ALLOY ANGLE, 6061-T6, 1.00 X 1.00 X .187 THK	ASTM B308	3
1	-2	ALUMINUM ALLOY SQUARE TUBING, 6063-T6, 2.00 X 2.00 X .125 THK	ASTM B221	2
2	-1	ALUMINUM ALLOY PLATE, 6061-T6, .250 THK	ASTM B209	1
QTY REQD	DRAWING OR PART NO.	NOMENCLATURE OR MATERIAL	SPECIFICATION	ITEM NO.

PARTS LIST				
NEXT ASSY	UNLESS OTHERWISE SPECIFIED	ORIGINAL DATE	12-05-02	
199-0172	DIMENSIONS ARE IN INCHES	DRAWN BY	HSW	
	TOLERANCES ON:	CHECKER		
	2 PLACE DECIMALS ± .01	SUBMITTED		
	3 PLACE DECIMALS ± .005	DESIGN APPROVAL		
	FRACTIONS ± 1/32	DRAWING APPROVAL		
	ANGLES ± 0° 30'	CONTRACT NO.		
EQUIPMENT CODE NO.	MATERIAL	SHEET 1 OF 2		
		SIZE	CAGE CODE	DWG NO.
		D	81361	199-7030
		SCALE	1/2	SHEET 1 OF 2

## LINEAR TRANSDUCER MOUNT, LEFT

U.S. ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND  
EDGEWOOD CHEMICAL BIOLOGICAL CENTER  
ABERDEEN PROVING GROUND, MARYLAND, 21010-5424

8

7

6

5

4

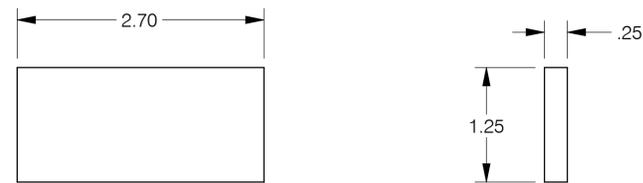
3

2

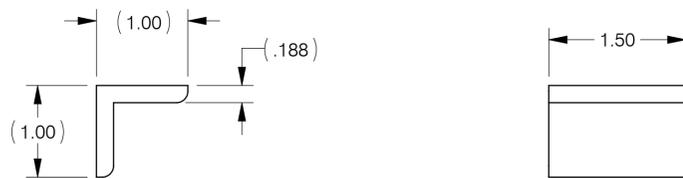
1

- NOTES:
- THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH ASME Y14.100 WITH THE ADDITION OF APPENDICES B THROUGH E.
  - THE FOLLOWING ARE MANDATORY WHEN INDICATED BY ■
    - REMOVE BURRS ■ BREAK SHARP EDGES .010 MAX
    - FILLETS R .010 MAX.
    - 125 ALL OVER, EXCEPT AS NOTED
- DIMENSIONS APPLY:
- BEFORE PLATING OR PAINTING
  - AFTER PLATING
  - AFTER PAINTING
- TOLERANCES ON STOCK MATERIAL SIZES, SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS.
- ASME Y14.5M-1994 APPLIES
  - FED-STD-H28 APPLIES

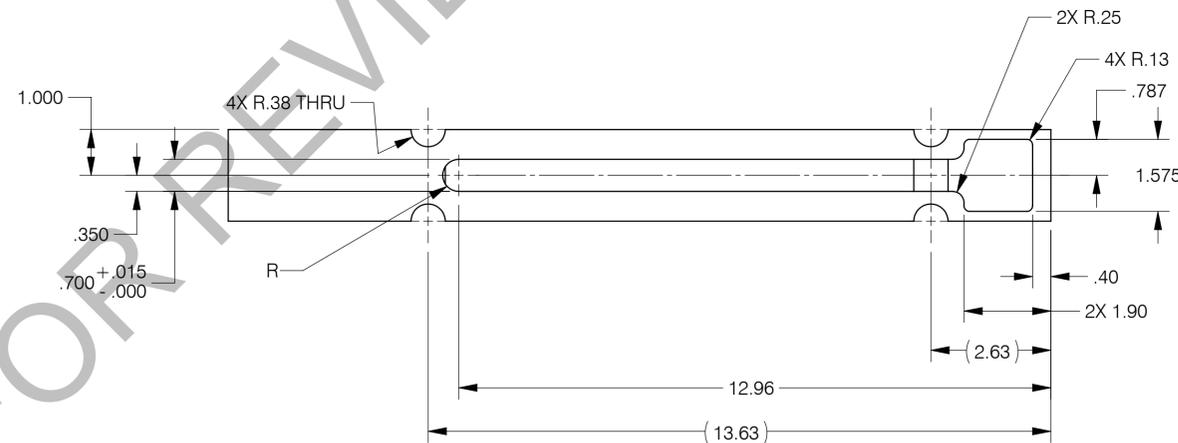
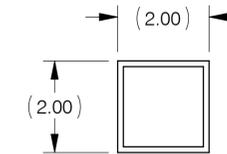
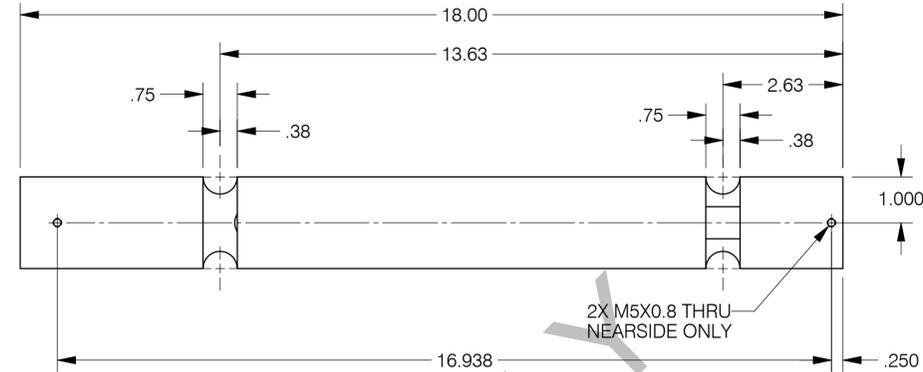
REVISIONS			
LTR	DESCRIPTION	DATE (YR-MO-DA)	APPROVED
-v06	BASELINE RELEASE	13-03-12	SM/MC



SCALE 1/1  
-1



SCALE 1/1  
-3



DISTRIBUTION STATEMENT D. DISTRIBUTION AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND U.S. DOD CONTRACTORS ONLY; CRITICAL TECHNOLOGY; DETERMINATION MADE 00-00-00. OTHER REQUESTS SHALL BE REFERRED TO: TECHNICAL DIRECTOR, EDGEWOOD CHEMICAL BIOLOGICAL CENTER, ATTN: RDCB-DEA-D, ABERDEEN PROVING GROUND, MD 21010-5424.

DESTRUCTION NOTICE - DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.

WARNING - THIS DOCUMENT CONTAINS TECHNICAL DATA WHOSE EXPORT IS RESTRICTED BY THE ARMS EXPORT CONTROL ACT (TITLE 22, U.S.C., SEC 2751, et seq.) OR THE EXPORT ADMINISTRATION ACT OF 1979 (TITLE 50, U.S.C., APP. 2401 et seq.), AS AMENDED. VIOLATIONS OF THESE EXPORT LAWS ARE SUBJECT TO SEVERE CRIMINAL PENALTIES. DISSEMINATE IN ACCORDANCE WITH PROVISIONS OF DOD DIRECTIVE 5230.25.

THIS DOCUMENT CONTAINS INFORMATION EXEMPT FROM MANDATORY DISCLOSURE UNDER THE FOIA. FOR OFFICIAL USE ONLY

QTY REQD	DWG SIZE	DRAWING OR PART NO.	NOMENCLATURE OR MATERIAL	SPECIFICATION	ITEM NO.
PARTS LIST					
NEXT ASSY	UNLESS OTHERWISE SPECIFIED		ORIGINAL DATE	U.S. ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND	
199-0172	DIMENSIONS ARE IN INCHES		12-05-02	EDGEWOOD CHEMICAL BIOLOGICAL CENTER	
	TOLERANCES ON:		DRAWN BY	ABERDEEN PROVING GROUND, MARYLAND, 21010-5424	
	2 PLACE DECIMALS ± .01		HWS	LINEAR TRANSDUCER MOUNT, LEFT	
	3 PLACE DECIMALS ± .005		CHECKER		
	FRACTIONS ± 1/32		SUBMITTED		
	ANGLES ± 0° 30'		DESIGN APPROVAL		
EQUIPMENT CODE NO.	MATERIAL		DRAWING APPROVAL	SIZE	CAGE CODE
			CONTRACT NO.	D	81361
				DWG NO.	199-7030
				SCALE	1/2
				SHEET	2 OF 2

FOR REVIEW ONLY

4

3

2

1

NOTES:

1. THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH ASME Y14.100 WITH THE ADDITION OF APPENDICES B THROUGH E.

2. THE FOLLOWING ARE MANDATORY WHEN INDICATED BY ■

■ REMOVE BURRS ■ BREAK SHARP EDGES 0.25 MAX

□ FILLETS R 0.25 MAX

□ 3.2 ALL OVER, EXCEPT AS NOTED

DIMENSIONS APPLY:

■ BEFORE PLATING OR PAINTING

□ AFTER PLATING

□ AFTER PAINTING

■ TOLERANCES ON STOCK MATERIAL SIZES, SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS.

■ ASME Y14.5M-1994 APPLIES

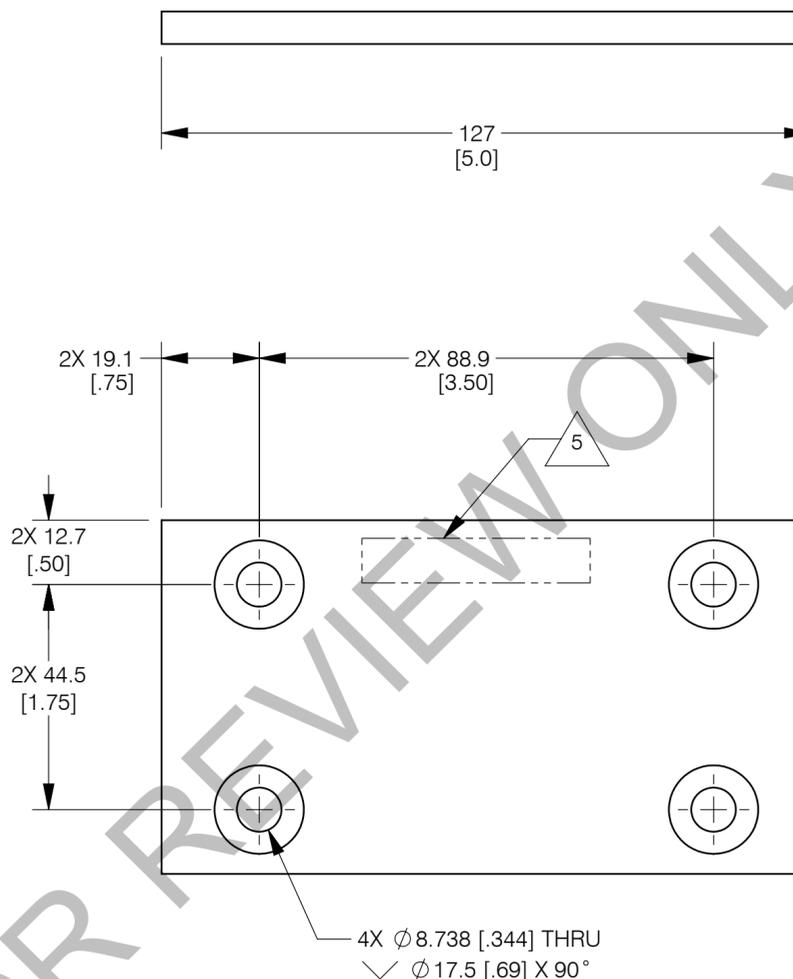
□ FED-STD-H28 APPLIES

3. METRIC, 1 INCH = 25.4 MM APPLIES.

4. MATERIAL: DELRIN PLATE, 6.4 [.25] THK

5 MARKING: RUBBER STAMP, SILKSCREEN OR STEEL STAMP, PERMANENTLY MARK CAGE CODE, PART NO. AND REVISION (81361-199-7182-X) (X= CURRENT DRAWING REVISION). CHARACTERS TO BE 3.05 [0.12] HIGH AND BLACK IN COLOR PER MIL-STD-130. LOCATE APPROXIMATELY AS SHOWN.

REVISIONS			
LTR	DESCRIPTION	DATE (YR-MO-DA)	APPROVED
-v01	BASELINE RELEASE WITH 199-7182, 13-01-15	13-05-08	SM/MC



FOR REVIEW ONLY

DISTRIBUTION STATEMENT D. DISTRIBUTION AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND U.S. DOD CONTRACTORS ONLY; CRITICAL TECHNOLOGY; DETERMINATION MADE 00-00-00. OTHER REQUESTS SHALL BE REFERRED TO: TECHNICAL DIRECTOR, EDGEWOOD CHEMICAL BIOLOGICAL CENTER, ATTN: RDCB-DEA-D, ABERDEEN PROVING GROUND, MD 21010-5424.

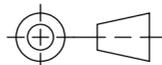
DESTRUCTION NOTICE - DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.

WARNING - THIS DOCUMENT CONTAINS TECHNICAL DATA WHOSE EXPORT IS RESTRICTED BY THE ARMS EXPORT CONTROL ACT (TITLE 22, U.S.C., SEC 2751, et seq.) OR THE EXPORT ADMINISTRATION ACT OF 1979 (TITLE 50, U.S.C., APP. 2401 et seq.), AS AMENDED. VIOLATIONS OF THESE EXPORT LAWS ARE SUBJECT TO SEVERE CRIMINAL PENALTIES. DISSEMINATE IN ACCORDANCE WITH PROVISIONS OF DOD DIRECTIVE 5230.25.

THIS DOCUMENT CONTAINS INFORMATION EXEMPT FROM MANDATORY DISCLOSURE UNDER THE FOIA.

FOR OFFICIAL USE ONLY

THIRD ANGLE PROJECTION



METRIC

QTY REQD	DRAWING OR PART NO.	NOMENCLATURE OR MATERIAL	SPECIFICATION	ITEM NO.
PARTS LIST				
NEXT ASSY	UNLESS OTHERWISE SPECIFIED	ORIGINAL DATE	U.S. ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND	
199-8375	DIMENSIONS ARE IN MM	13-05-08	EDGEWOOD CHEMICAL BIOLOGICAL CENTER	
	TOLERANCES ON:	DRAWN BY	ABERDEEN PROVING GROUND, MARYLAND, 21010-5424	
	WHOLE NUMBERS ± 1 [.04]	JJC	PLATE, WEAR, FRONT BRACKET	
	1 PLACE DECIMALS ± 0.3 [.012]	CHECKER		
	2 PLACE DECIMALS ± 0.13 [.005]	SUBMITTED	SIZE C CAGE CODE 81361 DWG NO. 199-7182	
	3 PLACE DECIMALS ± 0.013 [.0003]	DESIGN APPROVAL		
	ANGLES ± 0.5°	DRAWING APPROVAL	SCALE 1/1 SHEET	
EQUIPMENT CODE NO.	MATERIAL	CONTRACT NO.		

4

3

2

1

4

3

2

1

NOTES:

1. THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH ASME Y14.100 WITH THE ADDITION OF APPENDICES B THROUGH E.

2. THE FOLLOWING ARE MANDATORY WHEN INDICATED BY ■

■ REMOVE BURRS ■ BREAK SHARP EDGES 0.25 MAX

□ FILLETS R 0.25 MAX

□ 3.2 ✓ ALL OVER, EXCEPT AS NOTED

DIMENSIONS APPLY:

■ BEFORE PLATING OR PAINTING

□ AFTER PLATING

□ AFTER PAINTING

■ TOLERANCES ON STOCK MATERIAL SIZES, SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS.

■ ASME Y14.5M-1994 APPLIES

□ FED-STD-H28 APPLIES

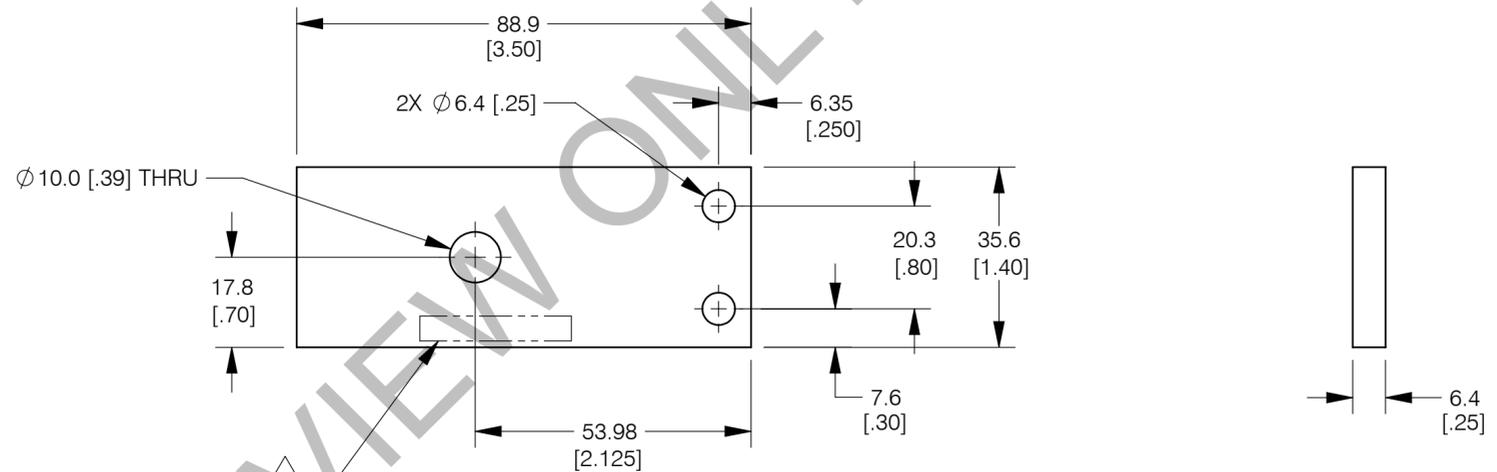
3. METRIC, 1 INCH = 25.4 MM APPLIES.

4. MATERIAL: LOW CARBON STEEL BAR, 6.4 [.25], IAW ASTM A36 OR EQUIVALENT.

5. FINISH 7.1.1 PLUS 20.4 OF MIL-STD-171, COLOR TAN 33446 PER FED-STD-595.

6. MARKING: RUBBER STAMP, SILKSCREEN OR STEEL STAMP, PERMANENTLY MARK CAGE CODE, PART NO. AND REVISION (81361-199-7193-X) (X= CURRENT DRAWING REVISION). CHARACTERS TO BE 3.05 [0.12] HIGH AND BLACK IN COLOR PER MIL-STD-130. LOCATE APPROXIMATELY AS SHOWN.

REVISIONS			
LTR	DESCRIPTION	DATE (YR-MO-DA)	APPROVED
-v01	BASELINE RELEASE WITH 199-7193, 13-01-15	13-05-09	SM/MC



DISTRIBUTION STATEMENT D. DISTRIBUTION AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND U.S. DOD CONTRACTORS ONLY; CRITICAL TECHNOLOGY; DETERMINATION MADE 00-00-00. OTHER REQUESTS SHALL BE REFERRED TO: TECHNICAL DIRECTOR, EDGEWOOD CHEMICAL BIOLOGICAL CENTER, ATTN: RDCB-DEA-D, ABERDEEN PROVING GROUND, MD 21010-5424.

DESTRUCTION NOTICE - DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.

WARNING - THIS DOCUMENT CONTAINS TECHNICAL DATA WHOSE EXPORT IS RESTRICTED BY THE ARMS EXPORT CONTROL ACT (TITLE 22, U.S.C., SEC 2751, et seq.) OR THE EXPORT ADMINISTRATION ACT OF 1979 (TITLE 50, U.S.C., APP. 2401 et seq.), AS AMENDED. VIOLATIONS OF THESE EXPORT LAWS ARE SUBJECT TO SEVERE CRIMINAL PENALTIES. DISSEMINATE IN ACCORDANCE WITH PROVISIONS OF DOD DIRECTIVE 5230.25.

THIS DOCUMENT CONTAINS INFORMATION EXEMPT FROM MANDATORY DISCLOSURE UNDER THE FOIA.

FOR OFFICIAL USE ONLY



METRIC

QTY REQD	DRAWING OR PART NO.	NOMENCLATURE OR MATERIAL	SPECIFICATION	ITEM NO.
PARTS LIST				
NEXT ASSY	UNLESS OTHERWISE SPECIFIED	ORIGINAL DATE	U.S. ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND	
199-8381	DIMENSIONS ARE IN MM	13-05-09	EDGEWOOD CHEMICAL BIOLOGICAL CENTER	
	TOLERANCES ON:	DRAWN BY	ABERDEEN PROVING GROUND, MARYLAND, 21010-5424	
	WHOLE NUMBERS ±1 [.04]	JJC	MOUNT 1, SOLENOID	
	1 PLACE DECIMALS ±0.3 [.012]	CHECKER		
	2 PLACE DECIMALS ±0.13 [.005]	SUBMITTED	SIZE	CAGE CODE
	ANGLES ± 0.5°	DESIGN APPROVAL	C	81361
	MATERIAL	DRAWING APPROVAL	DWG NO.	199-7193
EQUIPMENT CODE NO.		CONTRACT NO.	SCALE	SHEET
			1/2	

4

3

2

1

NOTES:

1. THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH ASME Y14.100 WITH THE ADDITION OF APPENDICES B THROUGH E.

2. THE FOLLOWING ARE MANDATORY WHEN INDICATED BY ■

■ REMOVE BURRS ■ BREAK SHARP EDGES 0.25 MAX

□ FILLETS R 0.25 MAX.

□ 3.2 ALL OVER, EXCEPT AS NOTED

DIMENSIONS APPLY:

■ BEFORE PLATING OR PAINTING

□ AFTER PLATING

□ AFTER PAINTING

■ TOLERANCES ON STOCK MATERIAL SIZES, SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS.

■ ASME Y14.5M-1994 APPLIES

□ FED-STD-H28 APPLIES

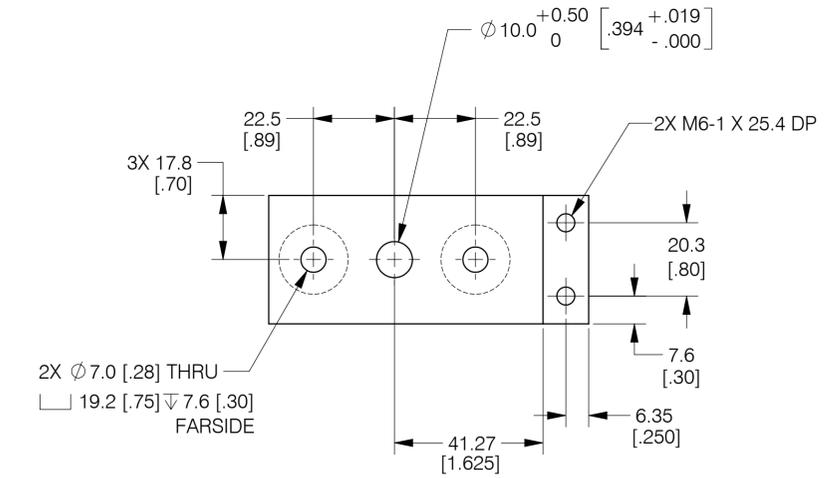
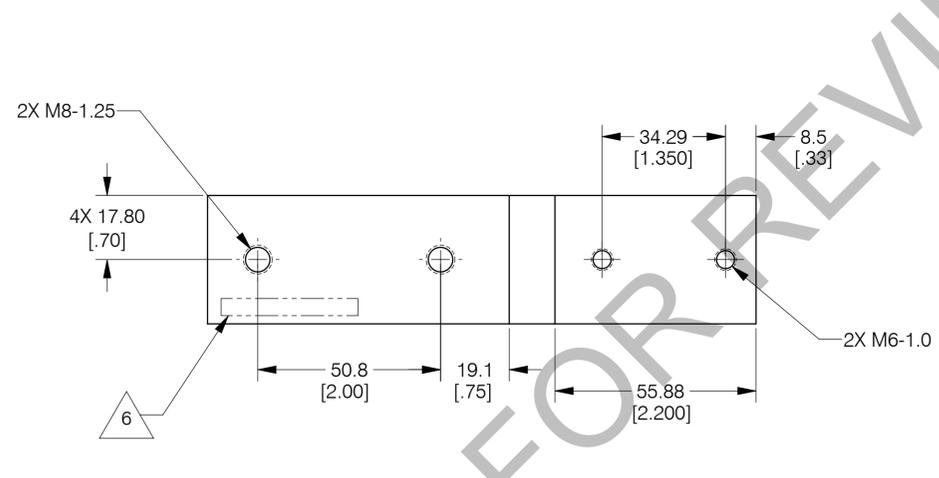
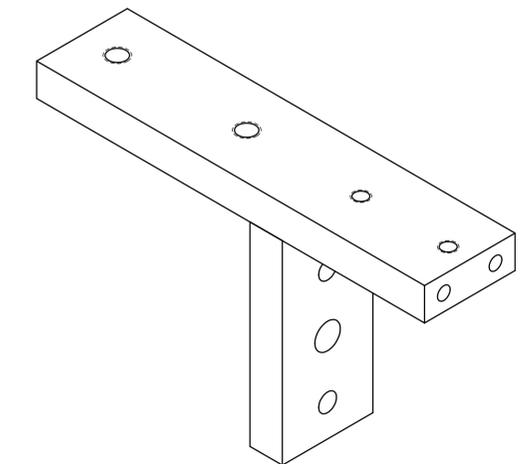
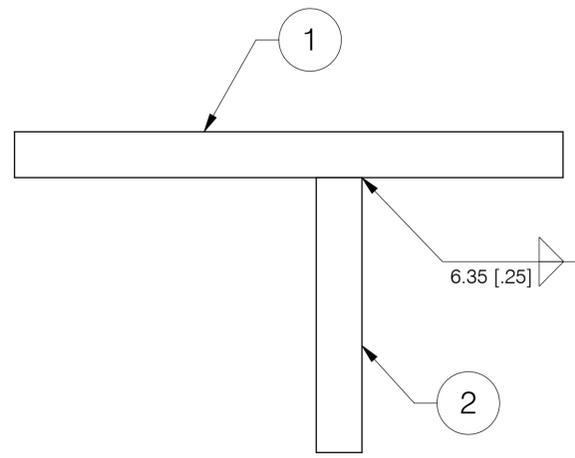
3. METRIC, 1 INCH = 25.4 MM APPLIES.

4. MATERIAL: LOW CARBON STEEL BAR, 12.7 [.50] THK, IAW ASTM A36 OR EQUIVALENT.

5. FINISH 7.1.1 PLUS 20.4 OF MIL-STD-171, COLOR TAN 33446 PER FED-STD-595.

6. MARKING: RUBBER STAMP, SILKSCREEN OR STEEL STAMP, PERMANENTLY MARK CAGE CODE, PART NO. AND REVISION (81361-199-7194-X) (X= CURRENT DRAWING REVISION). CHARACTERS TO BE 3.05 [0.12] HIGH AND BLACK IN COLOR PER MIL-STD-130. LOCATE APPROXIMATELY AS SHOWN.

REVISIONS			
LTR	DESCRIPTION	DATE (YR-MO-DA)	APPROVED
-V01	BASELINE RELEASE WITH 199-7194, 13-01-15	13-01-15	SM/MC



DISTRIBUTION STATEMENT D. DISTRIBUTION AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND U.S. DOD CONTRACTORS ONLY; CRITICAL TECHNOLOGY; DETERMINATION MADE 00-00-00. OTHER REQUESTS SHALL BE REFERRED TO: TECHNICAL DIRECTOR, EDGEWOOD CHEMICAL BIOLOGICAL CENTER, ATTN: RDCB-DEA-D, ABERDEEN PROVING GROUND, MD 21010-5424.

DESTRUCTION NOTICE - DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.

WARNING - THIS DOCUMENT CONTAINS TECHNICAL DATA WHOSE EXPORT IS RESTRICTED BY THE ARMS EXPORT CONTROL ACT (TITLE 22, U.S.C., SEC 2751, et seq.) OR THE EXPORT ADMINISTRATION ACT OF 1979 (TITLE 50, U.S.C., APP. 2401 et seq.), AS AMENDED. VIOLATIONS OF THESE EXPORT LAWS ARE SUBJECT TO SEVERE CRIMINAL PENALTIES. DISSEMINATE IN ACCORDANCE WITH PROVISIONS OF DOD DIRECTIVE 5230.25.

THIS DOCUMENT CONTAINS INFORMATION EXEMPT FROM MANDATORY DISCLOSURE UNDER THE FOIA. FOR OFFICIAL USE ONLY

1	-2	SEE NOTE 4		2
1	-1	SEE NOTE 4		1
QTY REQD	DRAWING OR PART NO.	NOMENCLATURE OR MATERIAL	SPECIFICATION	ITEM NO.

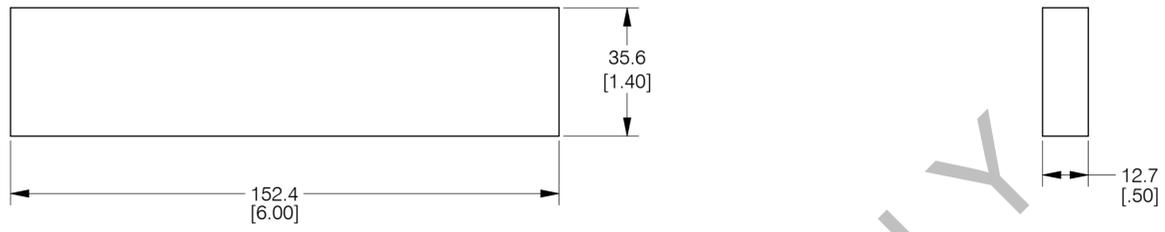
NEXT ASSY		UNLESS OTHERWISE SPECIFIED		ORIGINAL DATE (YR-MO-DA)		U.S. ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND EDGEWOOD CHEMICAL BIOLOGICAL CENTER ABERDEEN PROVING GROUND, MARYLAND, 21010-5424				
199-8381		DIMENSIONS ARE IN MM TOLERANCES ON: WHOLE NUMBERS ± 1 [.04] 1 PLACE DECIMALS ± 0.3 [.012] 2 PLACE DECIMALS ± 0.13 [.005] ANGLES ± 0.5°		DRAWN BY JJC		CHECKER		MOUNT 2, SOLENOID		
		MATERIAL		SUBMITTED						
EQUIPMENT CODE NO.				DESIGN APPROVAL						
				DRAWING APPROVAL						
				CONTRACT NO.				SIZE D	CAGE CODE 81361	DWG NO. 199-7194
								SCALE 1/1	SHEET 1 OF 2	



METRIC

REVISIONS			
LTR	DESCRIPTION	DATE (YR-MO-DA)	APPROVED
-V01	BASELINE RELEASE WITH 199-7194, 13-01-15	13-05-09	SM/MC

- NOTES:
- THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH ASME Y14.100 WITH THE ADDITION OF APPENDICES B THROUGH E.
  - THE FOLLOWING ARE MANDATORY WHEN INDICATED BY 
    - REMOVE BURRS     BREAK SHARP EDGES 0.25 MAX
    - FILLETS R 0.25 MAX.
    - 3.2 ALL OVER, EXCEPT AS NOTED
  - METRIC, 1 INCH = 25.4 MM APPLIES.



-1



-2

DISTRIBUTION STATEMENT D. DISTRIBUTION AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND U.S. DOD CONTRACTORS ONLY; CRITICAL TECHNOLOGY; DETERMINATION MADE 00-00-00. OTHER REQUESTS SHALL BE REFERRED TO: TECHNICAL DIRECTOR, EDGEWOOD CHEMICAL BIOLOGICAL CENTER, ATTN: RDCB-DEA-D, ABERDEEN PROVING GROUND, MD 21010-5424.

DESTRUCTION NOTICE - DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.

WARNING - THIS DOCUMENT CONTAINS TECHNICAL DATA WHOSE EXPORT IS RESTRICTED BY THE ARMS EXPORT CONTROL ACT (TITLE 22, U.S.C., SEC 2751, et seq.) OR THE EXPORT ADMINISTRATION ACT OF 1979 (TITLE 50, U.S.C., APP. 2401 et seq.), AS AMENDED. VIOLATIONS OF THESE EXPORT LAWS ARE SUBJECT TO SEVERE CRIMINAL PENALTIES. DISSEMINATE IN ACCORDANCE WITH PROVISIONS OF DOD DIRECTIVE 5230.25.

THIS DOCUMENT CONTAINS INFORMATION EXEMPT FROM MANDATORY DISCLOSURE UNDER THE FOIA. FOR OFFICIAL USE ONLY

QTY REQD	DRAWING OR PART NO.	NOMENCLATURE OR MATERIAL	SPECIFICATION	ITEM NO.
PARTS LIST				
1	199-8381	MOUNT 2, SOLENOID		
NEXT ASSY		UNLESS OTHERWISE SPECIFIED		
199-8381		DIMENSIONS ARE IN MM		
		TOLERANCES ON:		
		WHOLE NUMBERS ± 1 [.04]		
		1 PLACE DECIMALS ± 0.3 [.012]		
		2 PLACE DECIMALS ± 0.13 [.005]		
		ANGLES ± 0.5°		
EQUIPMENT CODE NO.		MATERIAL		
		ORIGINAL DATE (YR-MO-DA)		
		DRAWN BY: JJC		
		CHECKER:		
		SUBMITTED:		
		DESIGN APPROVAL:		
		DRAWING APPROVAL:		
		CONTRACT NO.:		
SIZE	CAGE CODE	DWG NO.		
D	81361	199-7194		
SCALE 1/1		SHEET 2 OF 2		



METRIC

4

3

2

1

NOTES:

1. THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH ASME Y14.100 WITH THE ADDITION OF APPENDICES B THROUGH E.

2. THE FOLLOWING ARE MANDATORY WHEN INDICATED BY ■

■ REMOVE BURRS ■ BREAK SHARP EDGES 0.25 MAX

□ FILLETS R 0.25 MAX

□ 3.2 ALL OVER, EXCEPT AS NOTED

DIMENSIONS APPLY:

□ BEFORE PLATING OR PAINTING

■ AFTER PLATING

□ AFTER PAINTING

■ TOLERANCES ON STOCK MATERIAL SIZES, SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS.

■ ASME Y14.5M-1994 APPLIES

■ FED-STD-H28 APPLIES

3. METRIC, 1 INCH = 25.4 MM APPLIES.

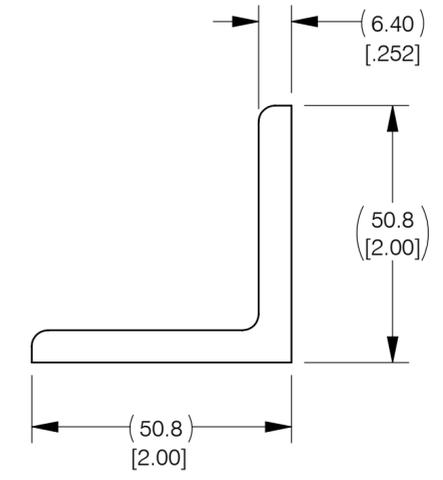
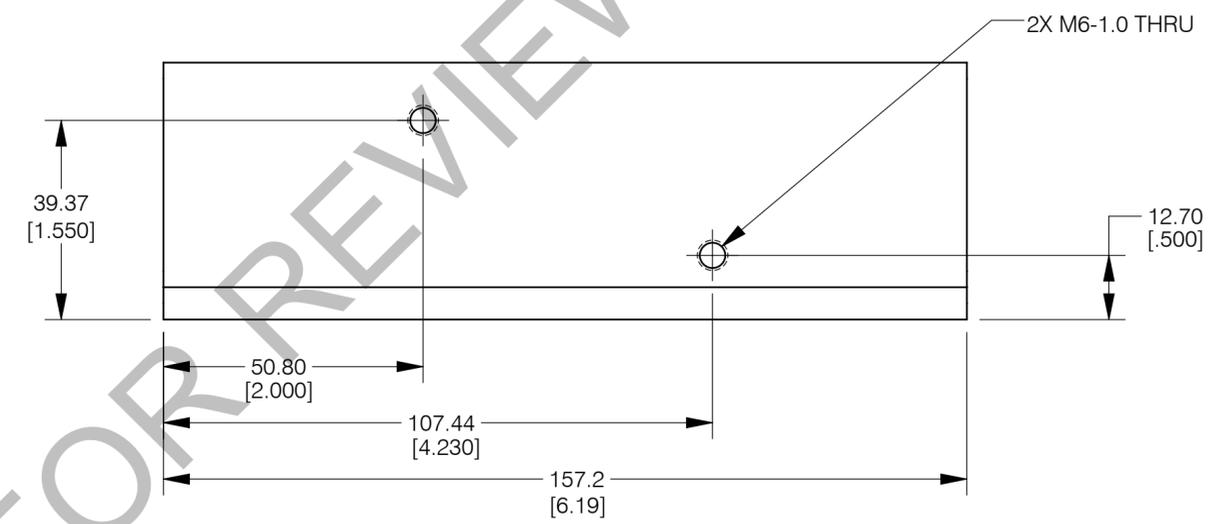
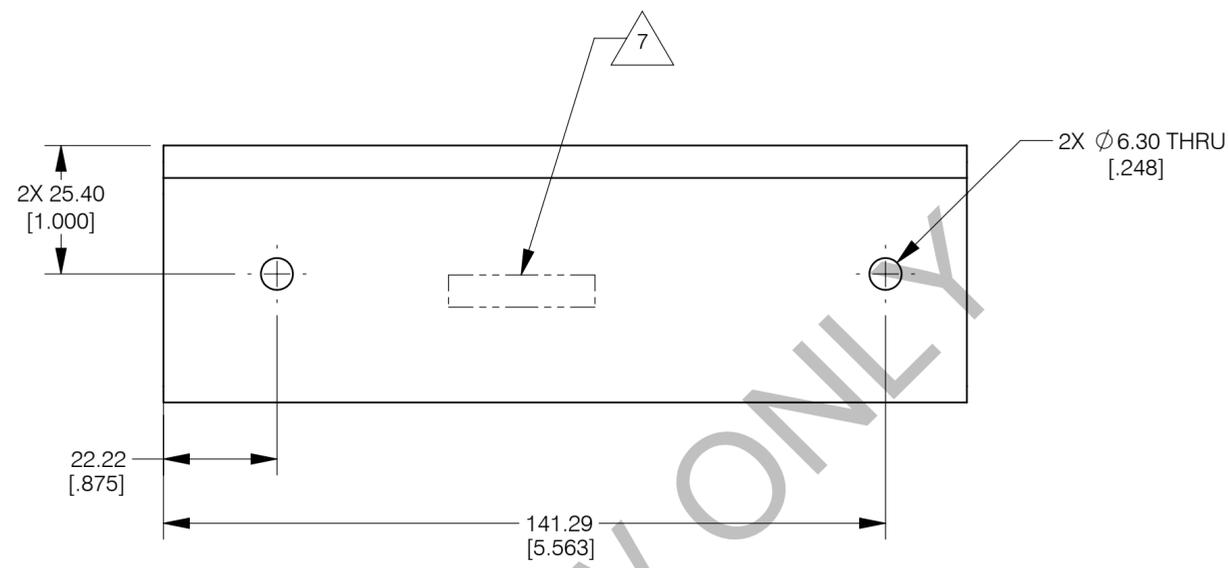
4. MATERIAL: ALUMINUM ALLOY ANGLE, 6061-T6 50.8 [2.00] X 50.8 [2.00] X 6.4 [.25] THK PER ASTM-B308.

5. FINISH 7.3.3 PLUS 20.4 OF MIL-STD-171, COLOR TAN 33446 PER FED-STD-595.

6. MASK THREADS PRIOR TO FINISH.

△ MARKING: RUBBER STAMP, SILKSCREEN OR STEEL STAMP, PERMANENTLY MARK CAGE CODE, PART NO. AND REVISION (81361-199-7298-X) (X= CURRENT DRAWING REVISION). CHARACTERS TO BE 3.05 [0.12] HIGH AND BLACK IN COLOR PER MIL-STD-130. LOCATE APPROXIMATELY AS SHOWN.

REVISIONS			
LTR	DESCRIPTION	DATE (YR-MO-DA)	APPROVED
-v01	BASELINE RELEASE WITH 199-7298, 13-04-12	13-04-16	SM/MC



DISTRIBUTION STATEMENT D. DISTRIBUTION AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND U.S. DOD CONTRACTORS ONLY; CRITICAL TECHNOLOGY; DETERMINATION MADE 00-00-00. OTHER REQUESTS SHALL BE REFERRED TO: TECHNICAL DIRECTOR, EDGEWOOD CHEMICAL BIOLOGICAL CENTER, ATTN: RDCB-DEA-D, ABERDEEN PROVING GROUND, MD 21010-5424.

DESTRUCTION NOTICE - DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.

WARNING - THIS DOCUMENT CONTAINS TECHNICAL DATA WHOSE EXPORT IS RESTRICTED BY THE ARMS EXPORT CONTROL ACT (TITLE 22, U.S.C., SEC 2751, et seq.) OR THE EXPORT ADMINISTRATION ACT OF 1979 (TITLE 50, U.S.C., APP. 2401 et seq.), AS AMENDED. VIOLATIONS OF THESE EXPORT LAWS ARE SUBJECT TO SEVERE CRIMINAL PENALTIES. DISSEMINATE IN ACCORDANCE WITH PROVISIONS OF DOD DIRECTIVE 5230.25.

THIS DOCUMENT CONTAINS INFORMATION EXEMPT FROM MANDATORY DISCLOSURE UNDER THE FOIA. FOR OFFICIAL USE ONLY



METRIC

QTY REQD	DRAWING OR PART NO.	NOMENCLATURE OR MATERIAL	SPECIFICATION	ITEM NO.
PARTS LIST				
NEXT ASSY	UNLESS OTHERWISE SPECIFIED	ORIGINAL DATE (YR-MO-DA)	U.S. ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND EDGEWOOD CHEMICAL BIOLOGICAL CENTER ABERDEEN PROVING GROUND, MARYLAND, 21010-5424	
199-0842	DIMENSIONS ARE IN MM	DRAWN BY		
	TOLERANCES ON:	CHECKER		
	WHOLE NUMBERS ± 1 [.04]	JJC		
	1 PLACE DECIMALS ± 0.3 [.012]	SUBMITTED	BRACKET, CIRCUIT BREAKER, MK2	
	2 PLACE DECIMALS ± 0.13 [.005]	DESIGN APPROVAL		
	ANGLES ± 0.5°	DRAWING APPROVAL		
EQUIPMENT CODE NO.	MATERIAL	CONTRACT NO.	SIZE	CAGE CODE
			C	81361
			DWG NO.	199-7298
			SCALE	SHEET
			1/1	

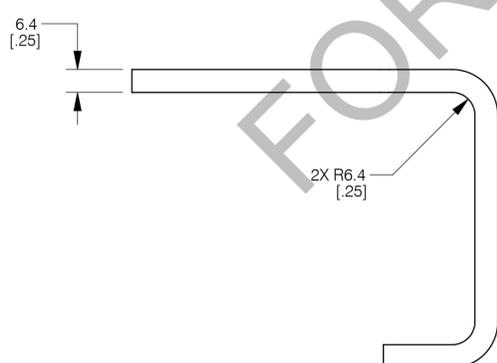
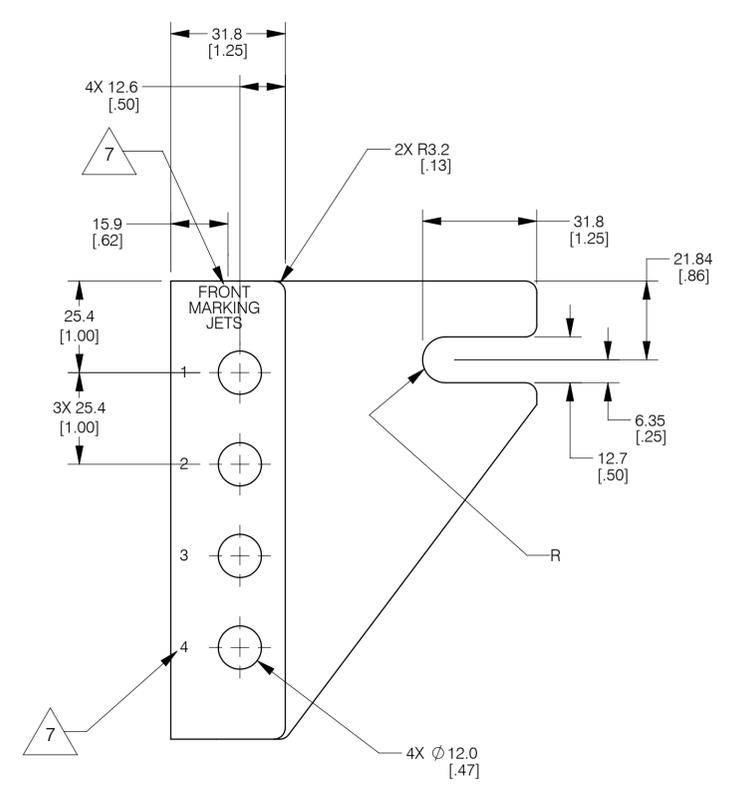
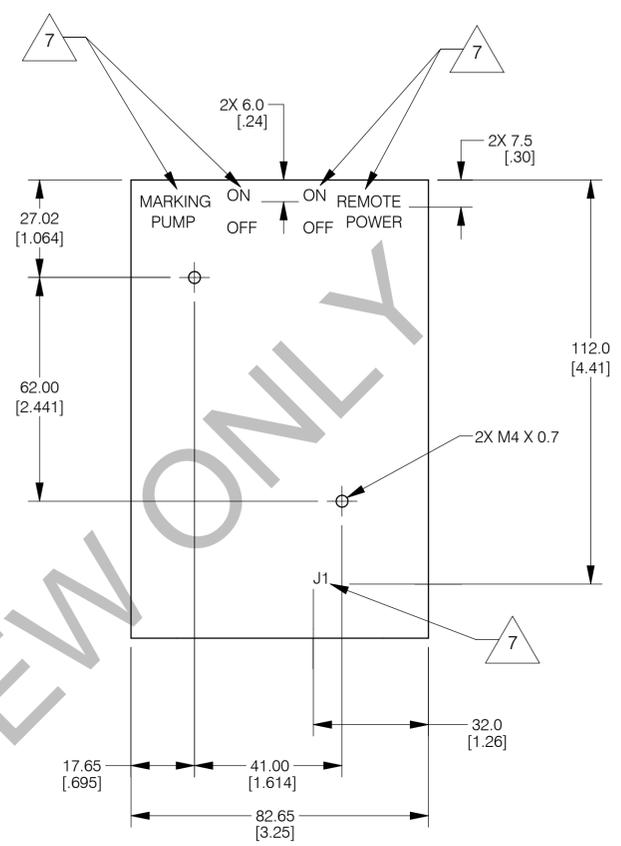
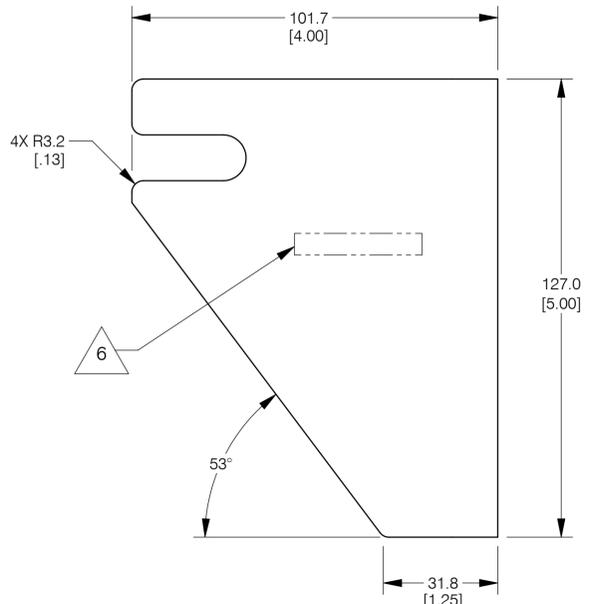
4

3

2

1

- NOTES:
- THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH ASME Y14.100 WITH THE ADDITION OF APPENDICES B THROUGH E.
  - THE FOLLOWING ARE MANDATORY WHEN INDICATED BY ■
    - REMOVE BURRS ■ BREAK SHARP EDGES 0.25 MAX
    - FILLETES R 0.25 MAX.
    - 3.2 ALL OVER, EXCEPT AS NOTED
  - METRIC, 1 INCH = 25.4 MM APPLIES.
  - ALUMINUM ALLOY PLATE, 6.35 [.250] THK, 5052 ALUMINUM PER ASTM B209.
  - FINISH 7.3.3 PLUS 20.4 OF MIL-STD-171, COLOR TAN 33446 PER FED-STD-595.
  - MARK WITH TAG IN ACCORDANCE WITH MIL-DTL-15024. PERMANENTLY MARK CAGE CODE, PART NUMBER AND REVISION (81361-199-7960-X) (X= CURRENT DRAWING REVISION). CHARACTERS TO BE 3.05 [.12] HIGH AND BLACK IN COLOR. LOCATE APPROXIMATELY AS SHOWN.
  - REFERENCE DESIGNATION MARKING: RUBBER STAMP, SILKSCREEN OR STEEL STAMP. PERMANENTLY MARK CHARACTERS 3.0 [.12] MINIMUM HIGH AND BLACK IN COLOR. LOCATE APPROXIMATELY AS SHOWN.



REVISIONS			
LTR	DESCRIPTION	DATE (YR-MO-DA)	APPROVED
-v01	BASELINE RELEASE	13-08-06	SM/MC

DISTRIBUTION STATEMENT D. DISTRIBUTION AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND U.S. DOD CONTRACTORS ONLY; CRITICAL TECHNOLOGY; DETERMINATION MADE 00-00-00. OTHER REQUESTS SHALL BE REFERRED TO: TECHNICAL DIRECTOR, EDGEWOOD CHEMICAL BIOLOGICAL CENTER, ATTN: RDCB-DEA-D, ABERDEEN PROVING GROUND, MD 21010-5424.

DESTRUCTION NOTICE - DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.

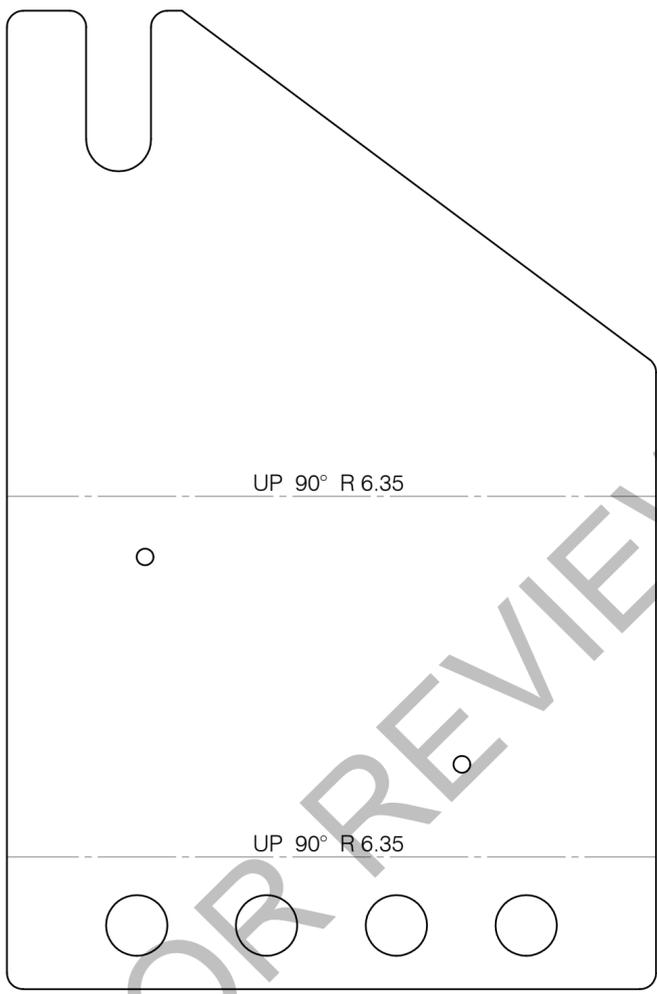
WARNING - THIS DOCUMENT CONTAINS TECHNICAL DATA WHOSE EXPORT IS RESTRICTED BY THE ARMS EXPORT CONTROL ACT (TITLE 22, U.S.C., SEC 2751, et seq.) OR THE EXPORT ADMINISTRATION ACT OF 1979 (TITLE 50, U.S.C., APP. 2401 et seq.), AS AMENDED. VIOLATIONS OF THESE EXPORT LAWS ARE SUBJECT TO SEVERE CRIMINAL PENALTIES. DISSEMINATE IN ACCORDANCE WITH PROVISIONS OF DOD DIRECTIVE 5230.25.

THIS DOCUMENT CONTAINS INFORMATION EXEMPT FROM MANDATORY DISCLOSURE UNDER THE FOIA. FOR OFFICIAL USE ONLY

QTY REQD	DRAWING OR PART NO.	NOMENCLATURE OR MATERIAL	SPECIFICATION	ITEM NO.
PARTS LIST				
NEXT ASSY		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MM TOLERANCES ON: WHOLE NUMBERS ± 1 [.04] 1 PLACE DECIMALS ± 0.3 [.012] 2 PLACE DECIMALS ± 0.13 [.005] ANGLES ± 0.5°		ORIGINAL DATE <b>13-08-06</b>
EQUIPMENT CODE NO.		MATERIAL  SEE NOTE 4		U.S. ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND EDGEWOOD CHEMICAL BIOLOGICAL CENTER ABERDEEN PROVING GROUND, MARYLAND, 21010-5424
				<b>BRACKET, E-STOP</b>
		SIZE <b>D</b>	CAGE CODE <b>81361</b>	DWG NO. <b>199-7960</b>
		SCALE 1/1		SHEET



METRIC



FOR REVIEW ONLY

4

3

2

1

NOTES:

1. THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH ASME Y14.100 WITH THE ADDITION OF APPENDICES B THROUGH E.

2. THE FOLLOWING ARE MANDATORY WHEN INDICATED BY ■

REMOVE BURRS     BREAK SHARP EDGES .010 MAX

FILLETS R .010 MAX

125 ALL OVER, EXCEPT AS NOTED

DIMENSIONS APPLY:

BEFORE PLATING OR PAINTING

AFTER PLATING

AFTER PAINTING

TOLERANCES ON STOCK MATERIAL SIZES, SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS.

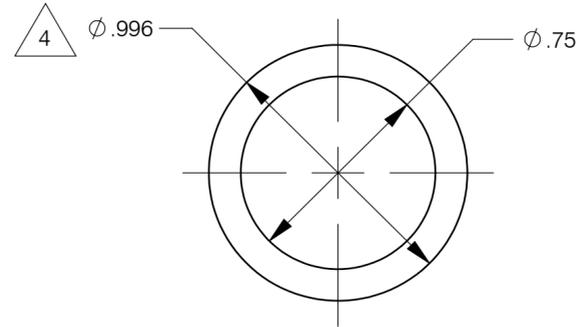
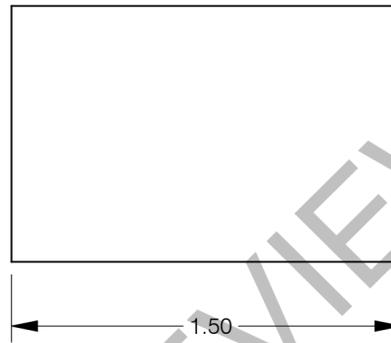
■ ASME Y14.5M-1994 APPLIES

FED-STD-H28 APPLIES

3. MAKE FROM PART NO. 199-15041.

△ ALTERED FEATURE(S).

REVISIONS			
LTR	DESCRIPTION	DATE (YR-MO-DA)	APPROVED
-v01	BASELINE RELEASE WITH 199-8446, 12-09-19	13-02-04	MC/SM



FOR REVIEW ONLY

ALTERED ITEM DRAWING

DISTRIBUTION STATEMENT D. DISTRIBUTION AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND U.S. DOD CONTRACTORS ONLY; CRITICAL TECHNOLOGY; DETERMINATION MADE 00-00-00. OTHER REQUESTS SHALL BE REFERRED TO: TECHNICAL DIRECTOR, EDGEWOOD CHEMICAL BIOLOGICAL CENTER, ATTN: RDCB-DEA-D, ABERDEEN PROVING GROUND, MD 21010-5424.

DESTRUCTION NOTICE - DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.

WARNING - THIS DOCUMENT CONTAINS TECHNICAL DATA WHOSE EXPORT IS RESTRICTED BY THE ARMS EXPORT CONTROL ACT (TITLE 22, U.S.C., SEC 2751, et seq.) OR THE EXPORT ADMINISTRATION ACT OF 1979 (TITLE 50, U.S.C., APP. 2401 et seq.), AS AMENDED. VIOLATIONS OF THESE EXPORT LAWS ARE SUBJECT TO SEVERE CRIMINAL PENALTIES. DISSEMINATE IN ACCORDANCE WITH PROVISIONS OF DOD DIRECTIVE 5230.25.

THIS DOCUMENT CONTAINS INFORMATION EXEMPT FROM MANDATORY DISCLOSURE UNDER THE FOIA. FOR OFFICIAL USE ONLY

QTY REQD	DRAWING OR PART NO.	NOMENCLATURE OR MATERIAL	SPECIFICATION	ITEM NO.
		PARTS LIST		
	NEXT ASSY 199-8376	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: 2 PLACE DECIMALS $\pm .01$ 3 PLACE DECIMALS $\pm .005$ FRACTIONS $\pm 1/32$ ANGLES $\pm 0^{\circ} 30'$	ORIGINAL DATE (YR-MO-DA) 13-01-22 DRAWN BY JJC CHECKER SUBMITTED DESIGN APPROVAL DRAWING APPROVAL CONTRACT NO.	U.S. ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND EDGEWOOD CHEMICAL BIOLOGICAL CENTER ABERDEEN PROVING GROUND, MARYLAND, 21010-5424  <b>SLEEVE, BEARING, ALTERED</b>
	EQUIPMENT CODE NO.	MATERIAL	SIZE C	CAGE CODE 81361
			DWG NO. 199-8446	
			SCALE 2/1	SHEET

4

3

2

1

4

3

2

1

NOTES:

1. THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH ASME Y14.100 WITH THE ADDITION OF APPENDICES B THROUGH E.

2. THE FOLLOWING ARE MANDATORY WHEN INDICATED BY ■

■ REMOVE BURRS ■ BREAK SHARP EDGES 0.25 MAX

□ FILLETS R 0.25 MAX

□ 3.2 ALL OVER, EXCEPT AS NOTED

DIMENSIONS APPLY:

■ BEFORE PLATING OR PAINTING

□ AFTER PLATING

□ AFTER PAINTING

■ TOLERANCES ON STOCK MATERIAL SIZES, SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS.

■ ASME Y14.5M-1994 APPLIES

■ FED-STD-H28 APPLIES

3. METRIC, 1 INCH = 25.4 MM APPLIES.

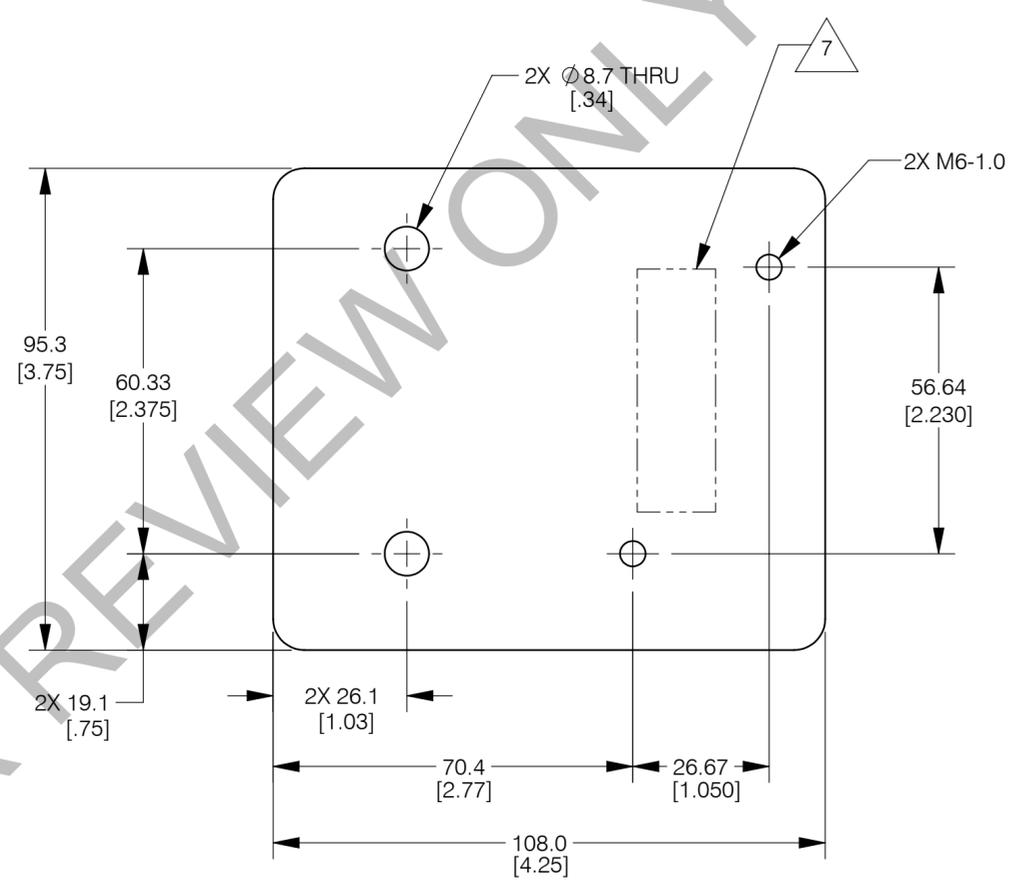
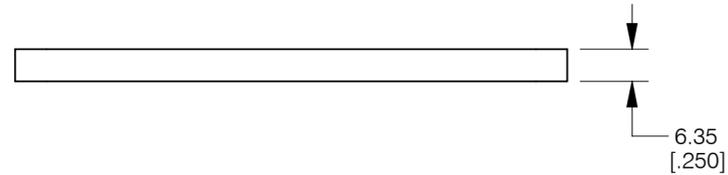
4. MATERIAL: ALUMINUM ALLOY PLATE, 6.35 [.250] THICK, 6061-T6 PER ASTM-B221.

5. FINISH 7.3.3 PLUS 20.4 OF MIL-STD-171 COLOR TAN 33446 PER FED-STD-595.

6. MASK THREADS PRIOR TO FINISH.

7 MARKING: RUBBER STAMP, SILKSCREEN OR STEEL STAMP, PERMANENTLY MARK CAGE CODE, PART NO. AND REVISION (81361-199-8788-X) (X= CURRENT DRAWING REVISION). CHARACTERS TO BE 3.05 [0.12] HIGH AND BLACK IN COLOR PER MIL-STD-130. LOCATE APPROXIMATELY AS SHOWN.

REVISIONS			
LTR	DESCRIPTION	DATE (YR-MO-DA)	APPROVED
-v01	BASELINE RELEASE	13-04-16	SM/MC



FOR REVIEW ONLY

DISTRIBUTION STATEMENT D. DISTRIBUTION AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND U.S. DOD CONTRACTORS ONLY; CRITICAL TECHNOLOGY; DETERMINATION MADE 00-00-00. OTHER REQUESTS SHALL BE REFERRED TO: TECHNICAL DIRECTOR, EDGEWOOD CHEMICAL BIOLOGICAL CENTER, ATTN: RDCB-DEA-D, ABERDEEN PROVING GROUND, MD 21010-5424.

DESTRUCTION NOTICE - DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.

WARNING - THIS DOCUMENT CONTAINS TECHNICAL DATA WHOSE EXPORT IS RESTRICTED BY THE ARMS EXPORT CONTROL ACT (TITLE 22, U.S.C., SEC 2751, et seq.) OR THE EXPORT ADMINISTRATION ACT OF 1979 (TITLE 50, U.S.C., APP. 2401 et seq.), AS AMENDED. VIOLATIONS OF THESE EXPORT LAWS ARE SUBJECT TO SEVERE CRIMINAL PENALTIES. DISSEMINATE IN ACCORDANCE WITH PROVISIONS OF DOD DIRECTIVE 5230.25.

THIS DOCUMENT CONTAINS INFORMATION EXEMPT FROM MANDATORY DISCLOSURE UNDER THE FOIA. FOR OFFICIAL USE ONLY



METRIC

QTY REQD	DRAWING OR PART NO.	NOMENCLATURE OR MATERIAL	SPECIFICATION	ITEM NO.
PARTS LIST				
NEXT ASSY	UNLESS OTHERWISE SPECIFIED	ORIGINAL DATE (YR-MO-DA)	U.S. ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND EDGEWOOD CHEMICAL BIOLOGICAL CENTER ABERDEEN PROVING GROUND, MARYLAND, 21010-5424	
199-0812	DIMENSIONS ARE IN MM TOLERANCES ON: WHOLE NUMBERS ± 1 [.04] 1 PLACE DECIMALS ± 0.3 [.012] 2 PLACE DECIMALS ± 0.13 [.005] ANGLES ± 0.5°	13-04-16	<b>BRACKET, CIRCUIT BREAKER, MK3</b>	
	MATERIAL	DRAWN BY JJC		
	SEE NOTE 4	CHECKER		
		DESIGN APPROVAL		
EQUIPMENT CODE NO.		DRAWING APPROVAL	SIZE C	CAGE CODE 81361
		CONTRACT NO.	DWG NO. 199-8788	
			SCALE 1/1	
			SHEET	

4

3

2

1

NOTES:

1. THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH ASME Y14.100 WITH THE ADDITION OF APPENDICES B THROUGH E.

2. THE FOLLOWING ARE MANDATORY WHEN INDICATED BY ■

■ REMOVE BURRS ■ BREAK SHARP EDGES .010 MAX

□ FILLETS R .010 MAX

□ 125 ALL OVER, EXCEPT AS NOTED

DIMENSIONS APPLY:

■ BEFORE PLATING OR PAINTING

□ AFTER PLATING

□ AFTER PAINTING

■ TOLERANCES ON STOCK MATERIAL SIZES, SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS.

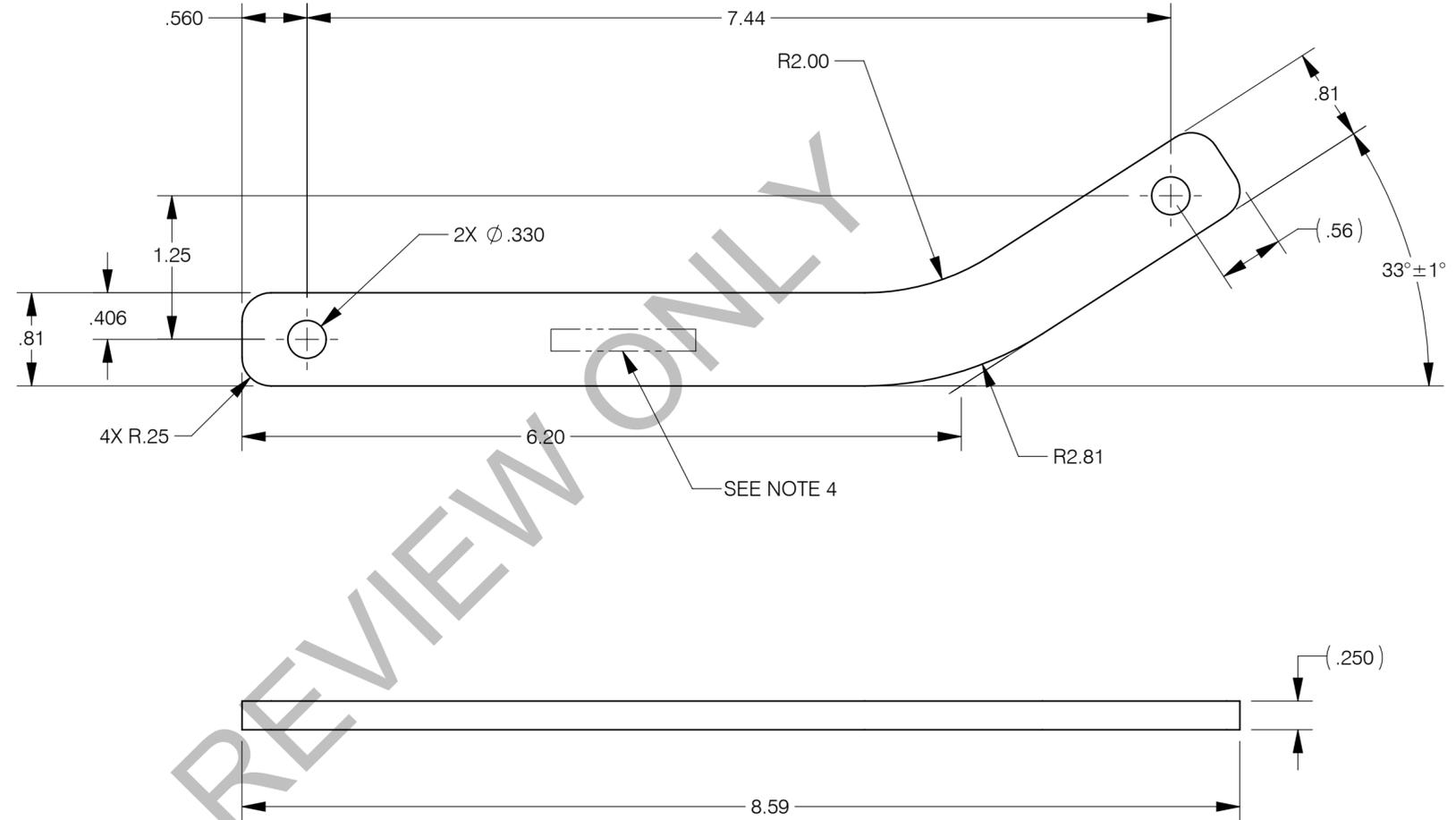
■ ASME Y14.5M-1994 APPLIES

□ FED-STD-H28 APPLIES

3. FINISH 7.1.1 PLUS 20.4 OF MIL-STD-171, COLOR TAN 33446 PER FED-STD-595.

4. MARKING: RUBBER STAMP, SILKSCREEN OR STEEL STAMP, PERMANENTLY MARK CAGE CODE, PART NUMBER AND REVISION (81361-199-9033-X (X=CURRENT DRAWING REVISION)). CHARACTERS TO BE .12 HIGH AND BLACK IN COLOR PER MIL-STD-130. LOCATE APPROXIMATELY AS SHOWN.

REVISIONS			
LTR	DESCRIPTION	DATE (YR-MO-DA)	APPROVED
-v01	BASELINE RELEASE	13-03-07	SM/MC



FOR REVIEW ONLY

DISTRIBUTION STATEMENT D. DISTRIBUTION AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND U.S. DOD CONTRACTORS ONLY; CRITICAL TECHNOLOGY; DETERMINATION MADE 00-00-00. OTHER REQUESTS SHALL BE REFERRED TO: TECHNICAL DIRECTOR, EDGEWOOD CHEMICAL BIOLOGICAL CENTER, ATTN: RDCB-DEA-D, ABERDEEN PROVING GROUND, MD 21010-5424.

DESTRUCTION NOTICE - DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.

WARNING - THIS DOCUMENT CONTAINS TECHNICAL DATA WHOSE EXPORT IS RESTRICTED BY THE ARMS EXPORT CONTROL ACT (TITLE 22, U.S.C., SEC 2751, et seq.) OR THE EXPORT ADMINISTRATION ACT OF 1979 (TITLE 50, U.S.C., APP. 2401 et seq.), AS AMENDED. VIOLATIONS OF THESE EXPORT LAWS ARE SUBJECT TO SEVERE CRIMINAL PENALTIES. DISSEMINATE IN ACCORDANCE WITH PROVISIONS OF DOD DIRECTIVE 5230.25.

THIS DOCUMENT CONTAINS INFORMATION EXEMPT FROM MANDATORY DISCLOSURE UNDER THE FOIA. FOR OFFICIAL USE ONLY

QTY REQD	DRAWING OR PART NO.	NOMENCLATURE OR MATERIAL	SPECIFICATION	ITEM NO.
PARTS LIST				
NEXT ASSY	UNLESS OTHERWISE SPECIFIED	ORIGINAL DATE (YR-MO-DA)	U.S. ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND EDGEWOOD CHEMICAL BIOLOGICAL CENTER ABERDEEN PROVING GROUND, MARYLAND, 21010-5424	
199-0172	DIMENSIONS ARE IN INCHES	13-02-05	<b>ARM, LINEAR TRANSDUCER</b>	
199-0173	TOLERANCES ON:	DRAWN BY: JJC		
	2 PLACE DECIMALS ± .01	CHECKER:	SIZE: C CAGE CODE: 81361 DWG NO.: 199-9033	
	3 PLACE DECIMALS ± .005	SUBMITTED:		
	FRACTIONS ± 1/32	DESIGN APPROVAL:	SCALE: 1/1 SHEET:	
	ANGLES ± 0° 30'	DRAWING APPROVAL:		
EQUIPMENT CODE NO.	MATERIAL	CONTRACT NO.:	SHEET	
	ALUMINUM ALLOY PLATE, 6061-T6, .250 THK PER ASTM B221			