DRAWING LIST

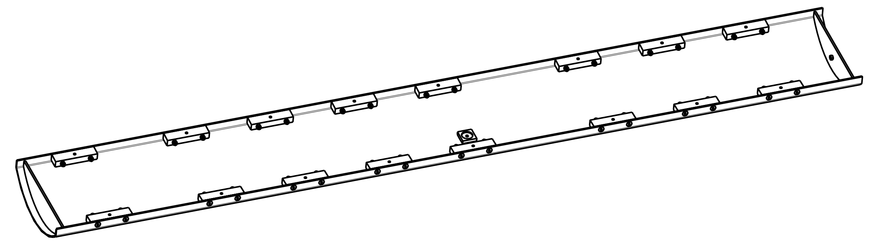
DRAWING NUMBER: DRAWING CODE	DRAWING NUMBER: BALLOON NO	DESCRIPTION	QTY/ ASSY
060213MFA836		MOUNTING BLOCK	16
060213MFA840		US-4 SYSTEMS TUNNEL ASSEMBLY	1
060213MFA841		US-4 SYSTEMS TUNNEL WELDMENT	1

COMMERCIAL PARTS LIST

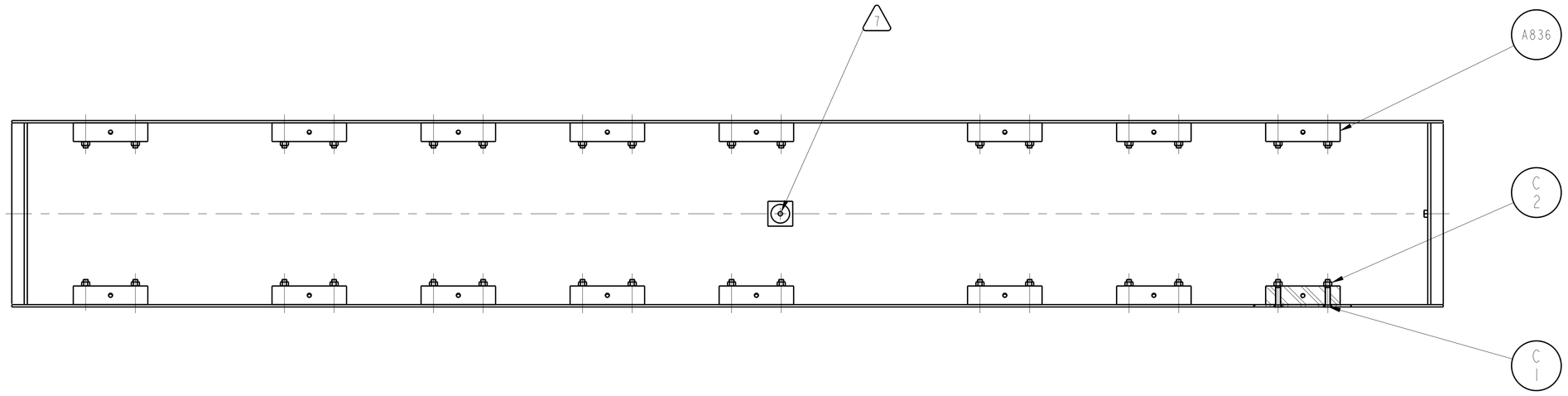
BALLOON NO	DESCRIPTION	QTY/ ASSY
C1	.375-24 UNJF-3A X 2.2 LONG, 100° FLATHEAD, SOCKET HEAD CAPSCREW, GRADE 8, ALLOY STEEL PER SAE J429, ZINC & YELLOW DICHROMATE PLATED FINISH.	32
C2	.375-24 UNC-2B HEX LOCKNUT, DISTORTED THREAD, GRADE 8, PLAIN STEEL, McMASTER-CARR# 90636A051 OR EQUIVALENT	32

TORQUE VALUES (USE LUBRICANT)

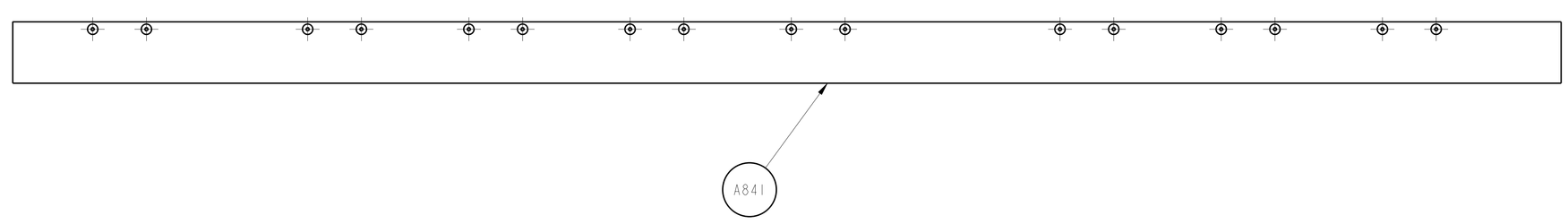
NO.	EFFECTIVE TORQUE
C2	28-30 FT-LBS.

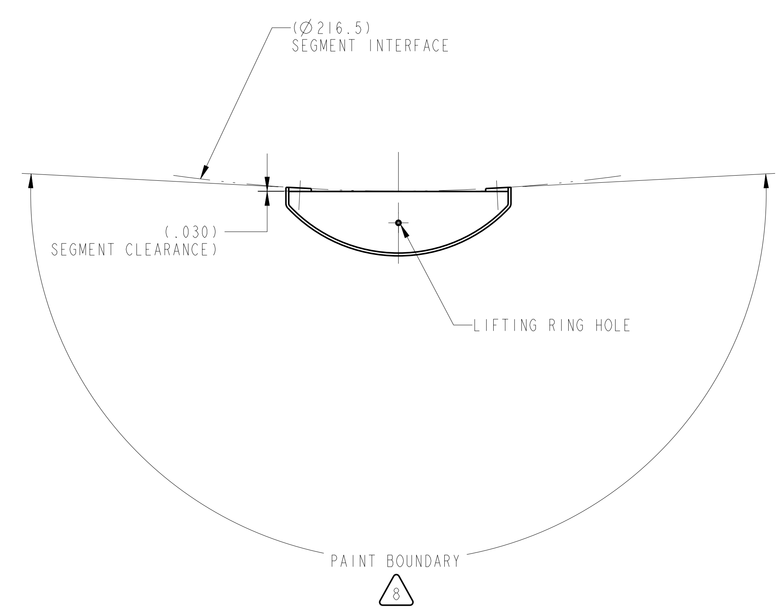


SCALE 1/10



1. FOR ARES I-X DFI SENSOR INSTALLATION PROCEDURE, REFER TO DOCUMENT GRC-ARES-I-X-FAB100 AND NASA ASSEMBLY DRAWINGS 060213MFA810 AND 060213MFA820.
2. ALL FASTENERS ARE CLASSIFIED AS "FAIL-SAFE" FASTENERS AND WILL REQUIRE CERTIFICATION AND TESTING PER TABLE 1 IN NASA-STD-(I)-6008. CERTIFIED MATERIALS TEST REPORT (CMTR) REQUIRED.
3. HEX BOLTS AND HEX SOCKET HEAD CAP SCREWS SHALL CONFORM TO ANSI/ASTM B18.2.1.
4. HEX NUTS SHALL CONFORM TO ANSI/ASTM B18.2.2.
5. TORQUE VALUES SHOWN ARE EFFECITVE TORQUES ONLY. RUNNING TORQUE MUST BE MEASURED AND ADDED TO THE EFFECTIVE TORQUE VALUES TO DETERMINE THE TOTAL TORQUE. TIGHTEN FASTENERS TO WITHIN TOTAL TORQUE RANGE. USE LUBRICANT.
6. RECOAT THE ENTIRE ASSEMBLY WITH NATIONAL COATINGS RustShield A120 (BUFF) PRIMER FOLLOWING MANUFACTURERS SUGGESTED APPLICATION PROCEEDURE. THE COATING THICKNESS SHALL BE4-6 MILS (DRY) PER ASTM-D7091.
7. PLUG INDICATED INSTRUMENTATION HOLE PRIOR TO PAINTING.
8. EXTERNAL SURFACES WITHIN INDICATED PAINT BOUNDARY: COAT WITH NATIONAL COATINGS AcrySheild HIGH REFLECTIVE A590 (WHITE) TOPCOAT FOLLOWING MANUFACTURERS SUGGESTED APPLICATION PROCEDURE. THE COATING THICKNESS SHALL BE 6-10 MILS (DRY).
9. TOTAL COATING THICKNESS SHALL BE 10-16 MILS (DRY) AS MEASURED PER ASTM-D7091.
10. ESTIMATED WEIGHT: 155 LBS.





DATE / INITIAL	ECR	DEV	WAV	ECR IMPLEMENTED / QA SIGNATURE/DATE

Released by AIX USS CMO on 2/29/08
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DO NOT COPY

CHG	ZONE	DESCRIPTION	APP/DATE

REVISIONS

PRIOR TO USE VERIFY THE INTENDED PURPOSE IN PDM ("FOR" ATTRIBUTE)

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

TOLERANCE ON	
.X	± -
.XX	± -
.XXX	± -
FRACTION	± -
ANGULAR	± -
BREAK EDGES	-

CONTRACT
CONTRACTOR
TASK ORDER

DRAFTER	DEZ/D. DRAGONY
ENGINEER	DER/A. HERRMAN
DESIGNER	DER/A. HERRMAN

DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1994

????	SINGLE PART DRAWING
?????	CHARTED PART DRAWING
C ?	COMMERCIAL PART
E ?	EXISTING PART

PDM REL LEVEL: Released PDM REVISION: -
PDM DATABASE:
MODEL NAME: 060213MFA840_US-4_SYS_TUN
CHECK FOR ANY OUTSTANDING ECO'S PRIOR TO USE

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
JOHN H. GLENN RESEARCH CENTER
LEWIS FIELD
CLEVELAND, OHIO

US-4 SEGMENT ASSEMBLY
060213MFA450

A840 US-4 SYSTEMS TUNNEL ASSEMBLY

SIZE	DRAWING NUMBER	REV	BLDG	AREA
E	060213MFA840	-	50	HI BAY

UNITS INCH

SCALE:	INITIAL REL DATE	SHEET	DISCIPLINE
1/5 AND NOTED	02/21/2008	1 OF 1	MECHANICAL

PRO/E VERSION: Wildfire 2.0

SIZE E DRAWING NUMBER 060213MFA840 REV -

NAME:CRAIGER CHECK:060213MFA840_US-4_SYS_TUN DATE:21-Feb-08 17:21:37