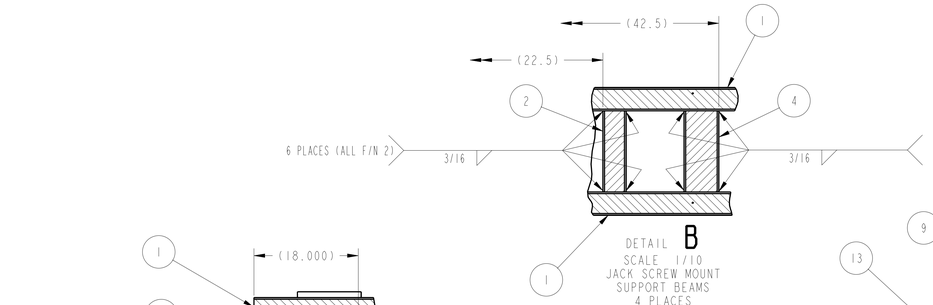
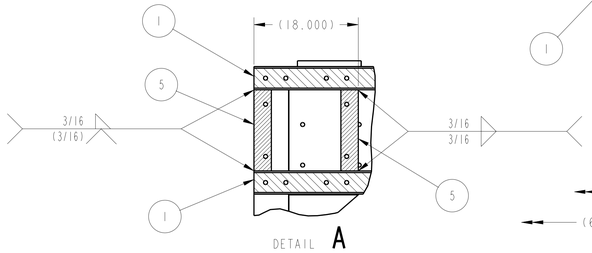
PARTS LIST

FIND NO	DESCRIPTION	QTY/ ASSY
1	4 X 12 BOX BEAM, 3/16 THICK, 156.0 LONG, A-36 OR A-500 GRADE B OR C STEEL (6 X 6 CUT CORNERS)	4
2	4 X 12 BOX BEAM, 3/16 THICK, 14.000 LONG, A-36 OR A-500 GRADE B OR C STEEL	6
3	6 X 6 BOX BEAM, 1/4 THICK, END SUPPORT SADDLE, A-36 OR A-500 GRADE B OR C STEEL (FABRICATE OFFSET AS SHOWN)	2
4	6 X 6 BOX BEAM, 1/4 THICK, 14.000 LONG, A-36 OR A-500 GRADE B OR C STEEL	4
5	3 X 3 ANGLE, 1/4 THICK, 14.000 LONG, A-36 OR A-500 GRADE B OR C STEEL	8
6	1-1/2 X 1-1/2 ANGLE , 1/8 THICK, 14.000 LONG, A-36 OR A-500 GRADE B OR C STEEL	8
7	11 X 8 PLATE, 1 THICK, TUG COUPLING MOUNT, A-36 OR A-500 GRADE B OR C STEEL	8
8	22 X 26.5 PLATE, 1/2 THICK, CASTER MOUNT, A-36 OR A-500 GRADE B OR C STEEL (3 X 6 CUT CORNER)	4
9	22 X 20 PLATE, 1/2 THICK, JACK SCREW MOUNT, A-36 OR A-500 GRADE B OR C STEEL	4
10	12 X 12 PLATE, 1/2 THICK, END SUPPORT GUSSET, A-36 OR A-500 GRADE B OR C STEEL	4
11	22 X 12 PLATE, 1/4 THICK, MOTOR MOUNT, A-36 OR A-500 GRADE B OR C STEEL	2
12	22 X 8 PLATE, 1/4 THICK, BEARING MOUNT, A-36 OR A-500 GRADE B OR C STEEL	2
13	8-1/2 X 7-1/2 PLATE, 1/4 THICK, GUIDE POST MOUNT, A-36 OR A-500 GRADE B OR C STEEL (4-1/2 X 4-1/2 CUT CORNER)	16

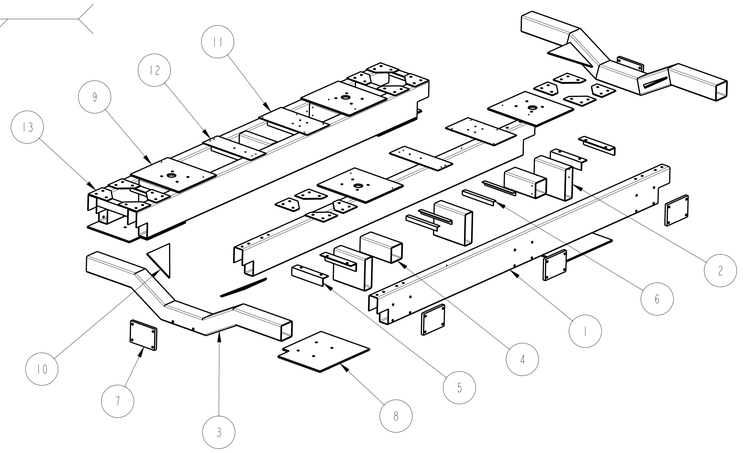
1. MATERIALS: AS NOTED IN PARTS LIST.
2. REFER TO SHEET 2 FOR ALL POST WELDING MACHINING OPERATIONS.
3. ALL WELDS PER AWS-D1.1. USE CYCLICAL LOADING CRITERIA FOR INSPECTION. REMOVE ALL WELDING FLASH, SPATTER, AND SLAG FROM EXPOSED SURFACES.
4. WELD BEAMS AND ANGLES BEFORE PLATES.
5. ENGRAVE ASSEMBLY DRAWING NUMBER 140703MRA101 ON SPECIFIED SURFACE WITH METAL STAMP OR MECHANICAL SCRIBE, PER SAE-478, METHOD 2A2 OR 3, USING 1/2" HIGH CHARACTERS, LOCATE APPROX. AS SHOWN (ZONE C6).
6. CLEAN AND DEGREASE ALL EXPOSED SURFACES. MASK INDICATED AREAS. PAINT WITH ENAMEL METAL PRIMER, RUST-OLEUM PART #215969, FOLLOWED BY SAFETY BLUE ENAMEL, RUST-OLEUM PART #7524402, OR REQUESTER APPROVED EQUIVALENT, PER MANUFACTURER'S SPECIFICATIONS. ALLOW NO PRIMER OR PAINT UNDER MASKED SURFACES. REMOVE ANY EXCESS PAINT FROM THREADED HOLES IF NECESSARY.
7. APPROXIMATE MASS: 2,466 LBS.

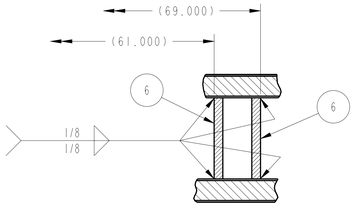


DETAIL B
SCALE 1/10
JACK SCREW MOUNT
SUPPORT BEAMS
4 PLACES

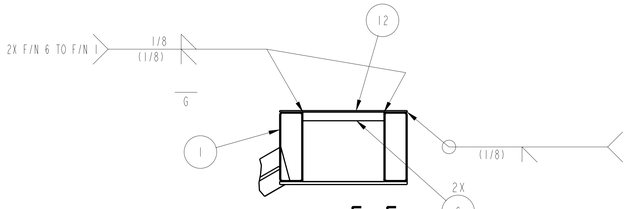


DETAIL A
SCALE 1/10
GUIDE POST MOUNT
SUPPORT ANGLES
4 PLACES

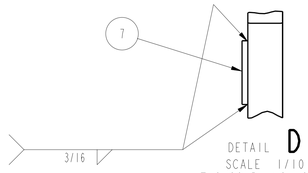




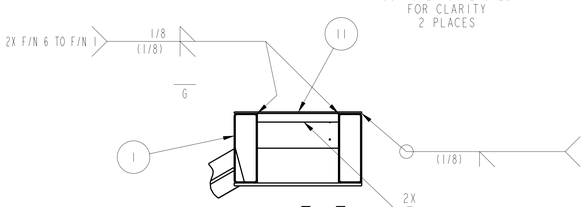
DETAIL C
SCALE 1/10
BEARING MOUNT AND MOTOR
MOUNT SUPPORT ANGLES
8 PLACES



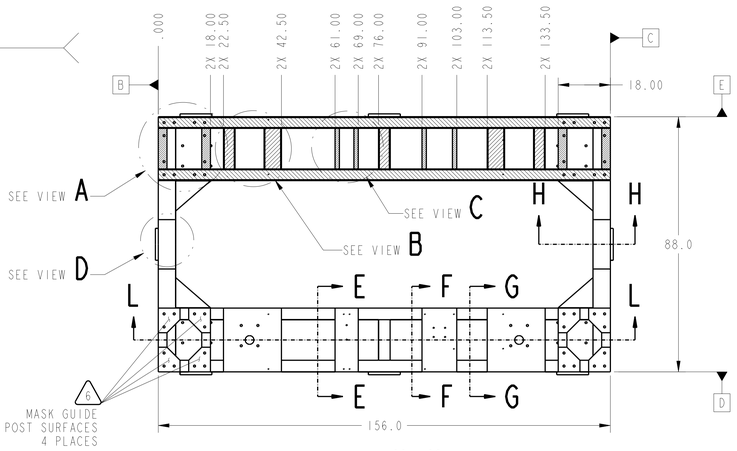
SECTION E-E
SCALE 1/10
BACKGROUND
COMPONENTS REMOVED
FOR CLARITY
2 PLACES



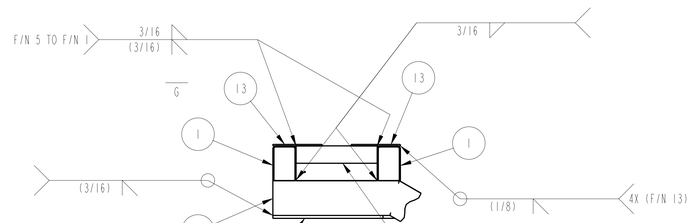
DETAIL D
SCALE 1/10
TUG COUPLING MOUNT
TOP VIEW
8 PLACES



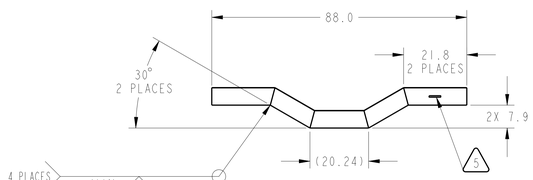
SECTION F-F
SCALE 1/10
BACKGROUND
COMPONENTS REMOVED
FOR CLARITY
2 PLACES



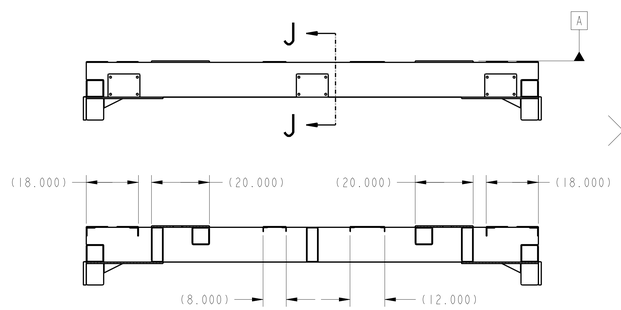
SECTION X-X



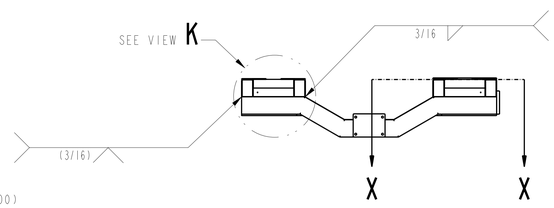
DETAIL K
SCALE 1/10
BACKGROUND
COMPONENTS REMOVED
FOR CLARITY
4 PLACES

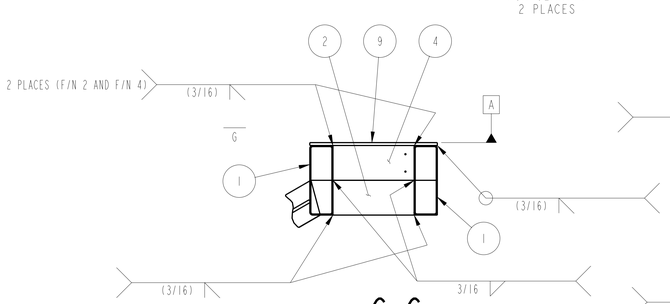


END SUPPORT SADDLE (F/N 3)
COMPONENTS REMOVED
FOR CLARITY
2 PLACES

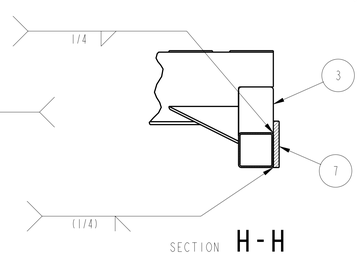


SECTION L-L
2 PLACES

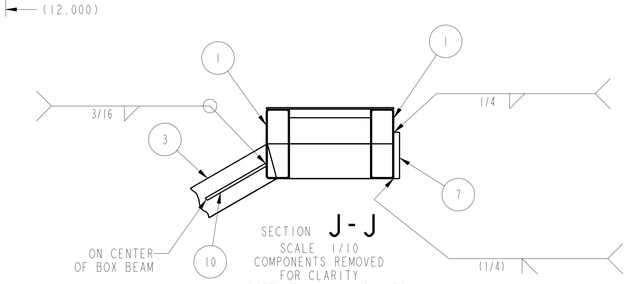




SECTION G-G
SCALE 1/10
BACKGROUND
COMPONENTS REMOVED
FOR CLARITY
4 PLACES



SECTION H-H
SCALE 1/10
END SUPPORT TUG MOUNT
2 PLACES



SECTION J-J
SCALE 1/10
COMPONENTS REMOVED
FOR CLARITY
GUSSET (F/N 10) 4 PLACES
TUG MOUNT (F/N 7) 6 PLACES

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	± 0.12
.XX	± 0.06
.XXX	± 0.030
FRACTION	± -
ANGULAR	± 0.50°
BREAK EDGES	.03-.06

CONTRACT
CONTRACTOR
TASK ORDER
DRAFTER LMP/C. REDDING
ENGINEER LMM/R. KELSCH
DESIGNER LMP/C. REDDING

DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1994

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

TRANSPORT CART BASE

140703MRA100

A101 CART BASE STRUCTURE

PDM REL LEVEL: Released PDM REVISION: -
PDM DATABASE: 140703_10x10_transport.car
MODEL NAME: 140703MRA101_BASE_STRUCTURE_ASM
CHECK FOR ANY OUTSTANDING ECO'S PRIOR TO USE

SIZE	DRAWING NUMBER	REV	BLDG	AREA
E	140703MRA101	-	113	SHOP

UNITS: INCH

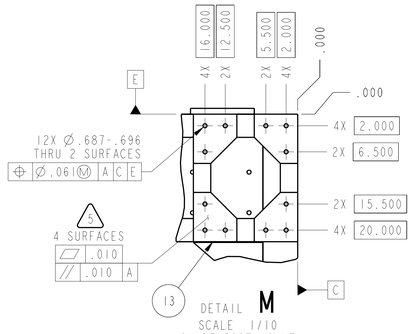
SCALE:	INITIAL REL DATE	SHEET	DISCIPLINE
1/20	11/15/2014	1 OF 2	MECHANICAL

PRO/E VERSION: Wildfire 5.0

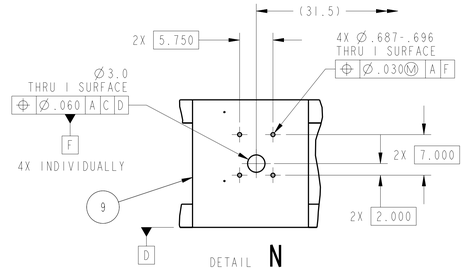
SIZE E DRAWING NUMBER 140703MRA101 REV -

NAME:CHRISDONG OBJECT:140703MRA101_BASE_STRUCTURE_ASM_1 DATE:Thu Jun 14 14:24:

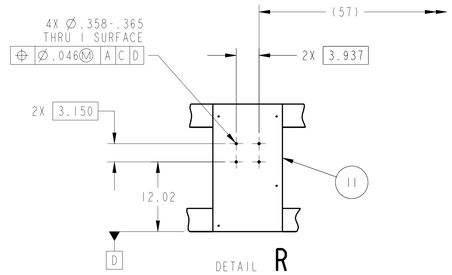
1. REFER TO SHEET 1 FOR PARTS LIST, TITLE BLOCK TOLERANCES, AND GENERAL NOTES.
2. ALL MACHINING OPERATIONS TO BE PERFORMED AFTER COMPLETION OF ALL WELDING.
3. SURFACE FINISH: 125Ra ALL MACHINED SURFACES.
4. REMOVE MINIMUM MATERIAL FOR FLATNESS AND PARALLELISM, DO NOT ALLOW PLATE THICKNESS TO FALL BELOW .375
5. REMOVE MINIMUM MATERIAL FOR FLATNESS AND PARALLELISM, DO NOT ALLOW PLATE THICKNESS TO FALL BELOW .175
6. DEBURR ALL MACHINED EDGES AND HOLES.



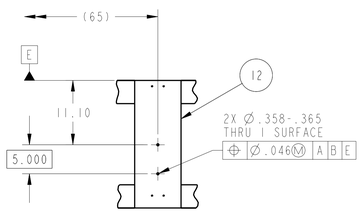
DETAIL M
SCALE 1/10
GUIDE POST MOUNT
4 PLACES



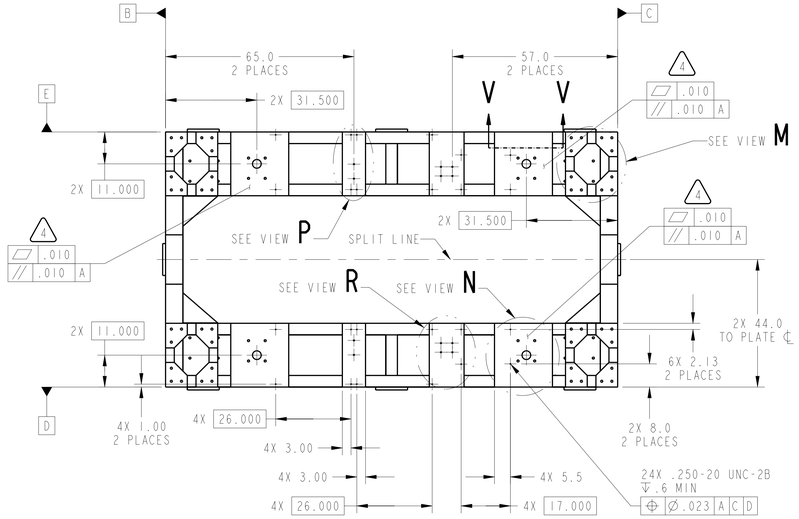
DETAIL N
SCALE 1/10
JACK SCREW MOUNT
4 PLACES

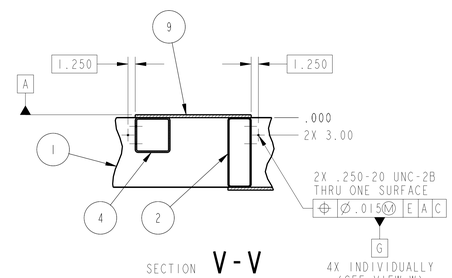


DETAIL R
SCALE 1/10
MOTOR MOUNT
2 PLACES

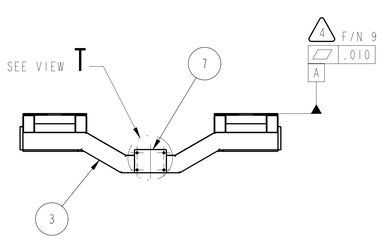


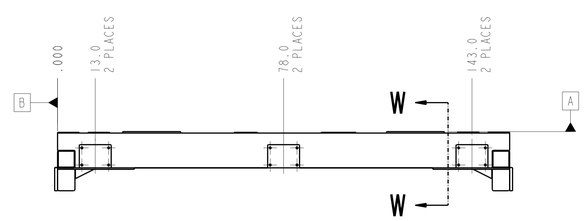
DETAIL P
SCALE 1/10
BEARING MOUNT
2 PLACES

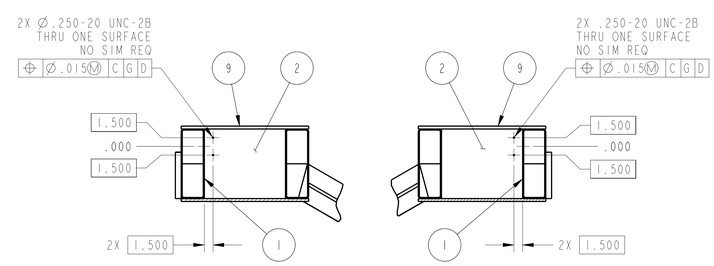




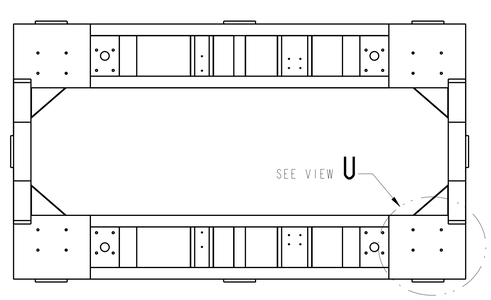
SECTION V-V
SCALE 1/10
ELECTRICAL BOX MOUNTS
2 PLACES - MIRROR
ABOUT SPLIT LINE

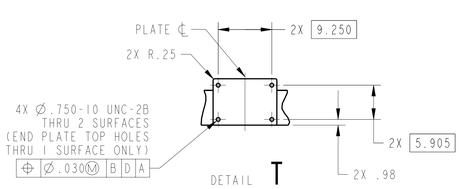




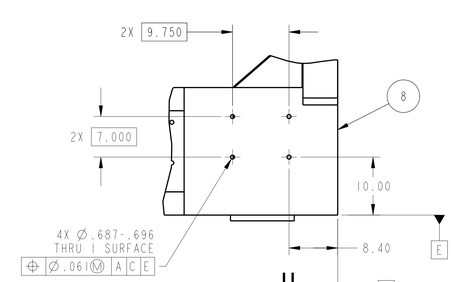


SECTION W-W
SCALE 1/10
ELECTRICAL BOX MOUNT
2 PLACES (FAR SIDE
ON BOX BEAM F/N 4
REFER TO VIEW V)





DETAIL T
SCALE 1/10
TUG COUPLING MOUNT
(END PLATE SHOWN)
8 PLACES



DETAIL U
SCALE 1/10
CASTER MOUNT
4 PLACES

CHG	ZONE	DESCRIPTION	APP/DATE
REVISIONS			

SIZE	DRAWING NUMBER	REV	BLDG 113	AREA SHOP
E	140703MRA101	-	UNITS: INCH	
SCALE: 1/20	INITIAL REL DATE 11/15/2014	SHEET 2 OF 2	DISCIPLINE MECHANICAL	

PRO/E VERSION: Wildfire 5.0

SIZE E DRAWING NUMBER 140703MRA101 REV -

NAME:GREGORIO OBJECT:140703MRA101_BASE_STRUCTURE_ASM.P DATE:[illegible]