

	NAME	DATE
DRAWN	Joe S.	2017-10-05
CHECKED	--	
ENG APPR.	--	
MFG APPR.	--	

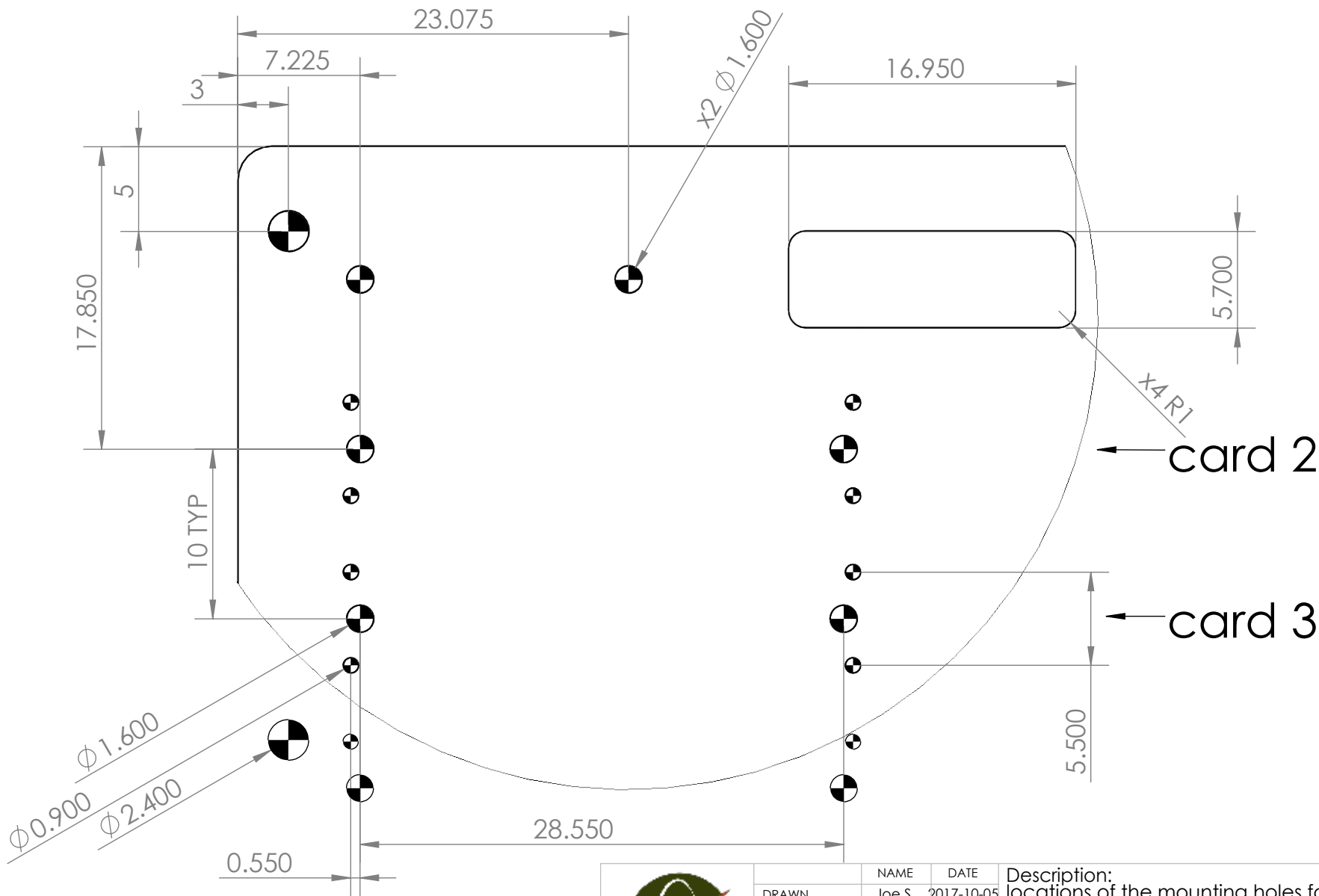
Description:
The backplane which connects the various cards in OreSat

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN MILLIMETERS
TOLERANCES:
FRACTIONAL: 1/32
ANGULAR: MACH ± BEND ±
TWO PLACE DECIMAL ±.01
THREE PLACE DECIMAL ±.001

MATERIAL	FR4
FINISH	--
Weight	
DO NOT SCALE DRAWING	

Table of Contents:	1 -- overview
	2 -- DETAIL A (-Y, +Z holes)
	3 -- DETAIL B (+Y, -Z holes)
	4 -- DETAIL C (mid-board)
	5 -- DETAIL D (-Y, -Z holes)
	6 -- DETAIL E (+Y, -Z holes)
	7 -- Cartesian coordinates

DWG. NO.			--
REV	SIZE	SCALE: 1:2	
i	A	SHEET 1 OF 7	



DETAIL A

SCALE 3 : 1

SOLIDWORKS Educational Product. For Instructional Use Only

UNLESS OTHERWISE SPECIFIED:
 DIMENSIONS ARE IN MILLIMETERS
 TOLERANCES:
 FRACTIONAL: 1/32
 ANGULAR: MACH ± BEND ±
 TWO PLACE DECIMAL ±.01
 THREE PLACE DECIMAL ±.001

	MATERIAL	FR4
	FINISH	--
	Weight	
	DO NOT SCALE DRAWING	

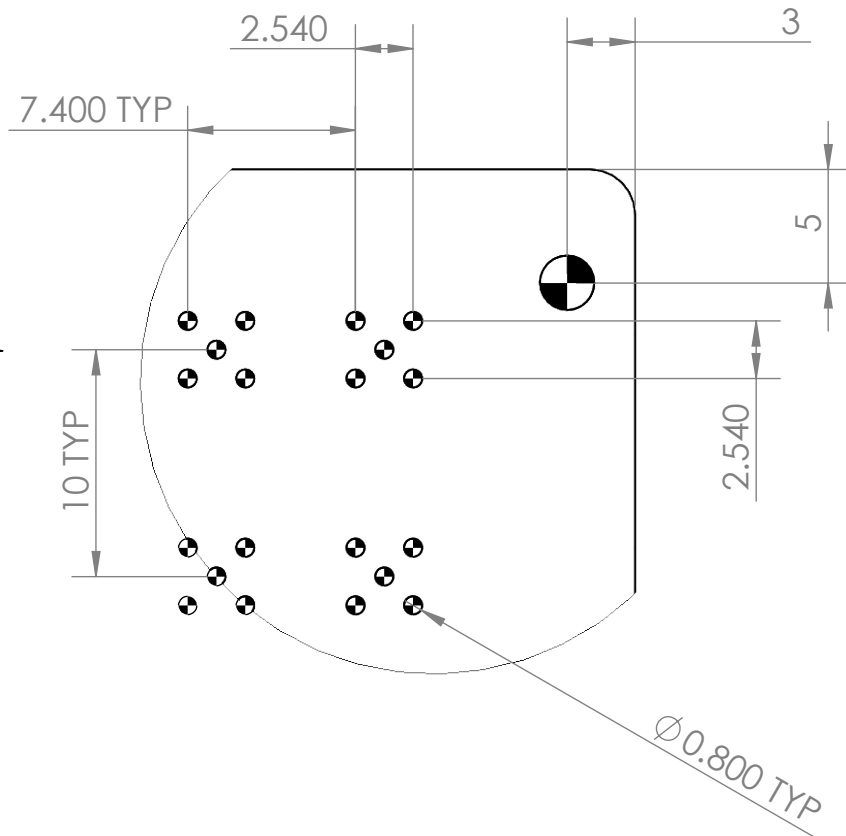
	NAME	DATE
DRAWN	Joe S.	2017-10-05
CHECKED	--	
ENG APPR.	--	
MFG APPR.	--	

Description:
 locations of the mounting holes for the backplane, 40 pin connectors, and 20 pin connector, as well as the passthrough for the solar panel connector

COMMENTS:
 The 20 and 40 pin connectors are all oriented with the notched side in the -Z direction (down).

DWG. NO.			--
REV	SIZE	SCALE: 3:1	
i	A	SHEET 2 OF 7	

card 1 →



DETAIL B

SCALE 3 : 1



UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN MILLIMETERS
TOLERANCES:
FRACTIONAL: 1/32
ANGULAR: MACH \pm BEND \pm
TWO PLACE DECIMAL \pm .01
THREE PLACE DECIMAL \pm .001

MATERIAL
FR4
FINISH
--
Weight
DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	Joe S.	2017-10-05
CHECKED	--	
ENG APPR.	--	
MFG APPR.	--	

Description:
locations of the mounting holes for the
MMCX connectors and backplane

COMMENTS:

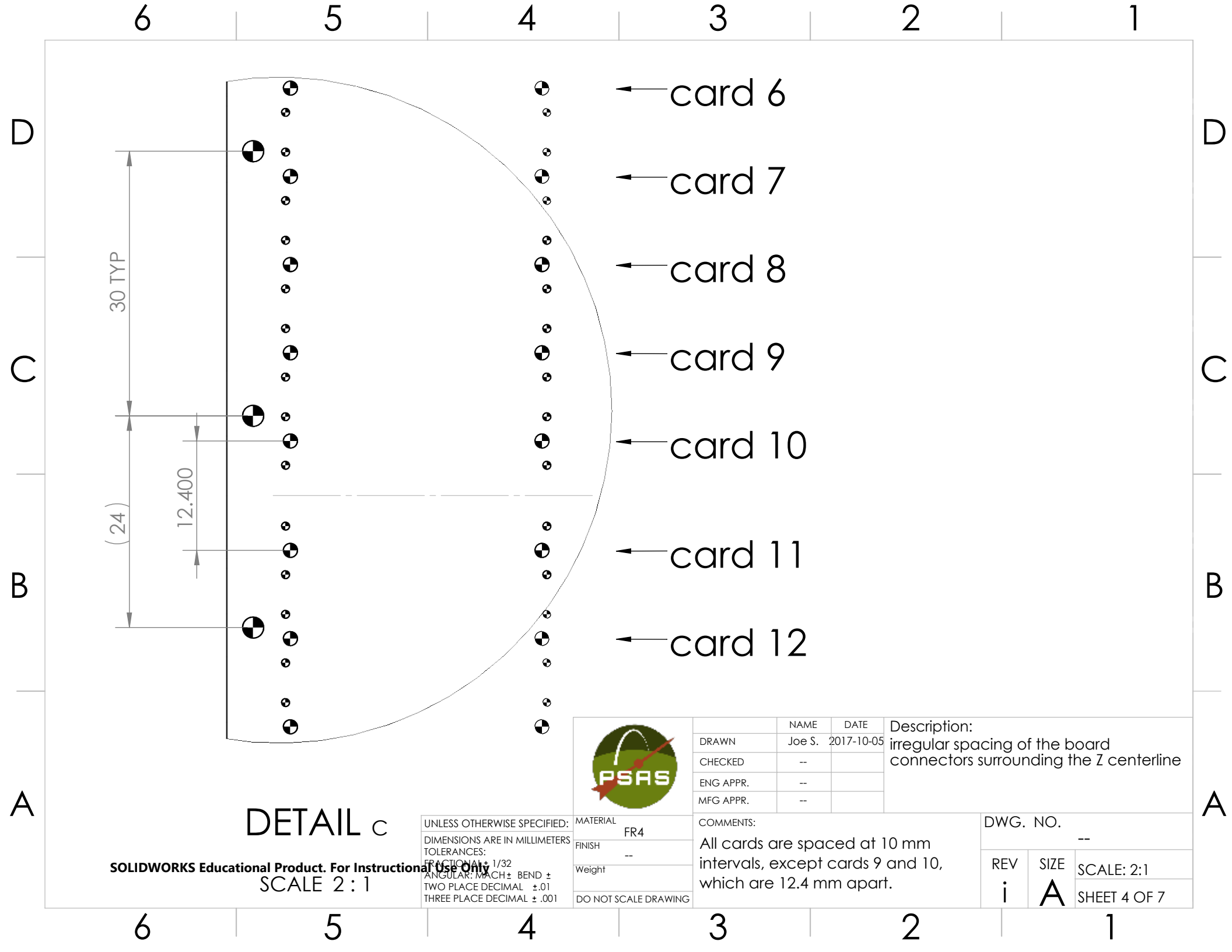
DWG. NO.

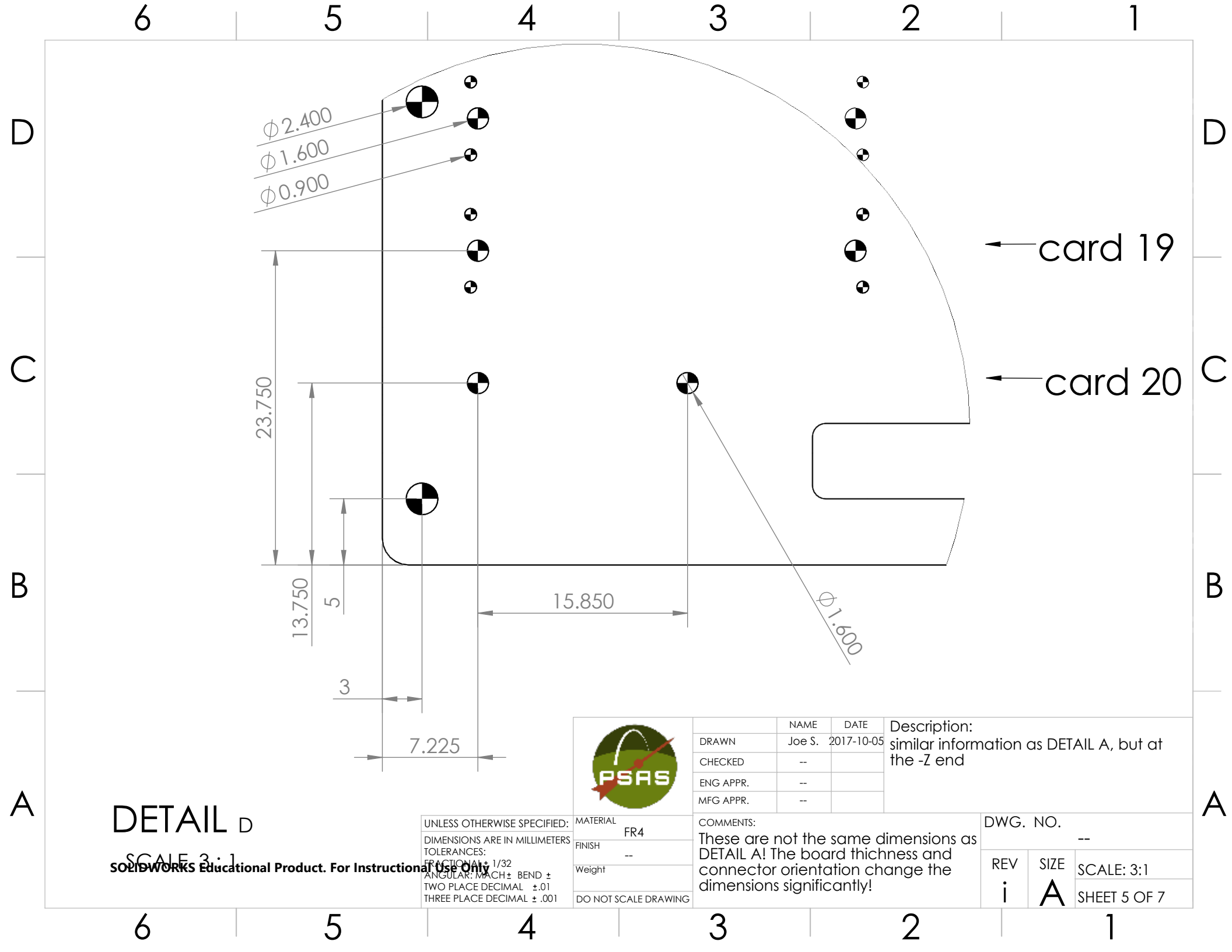
--

REV
i

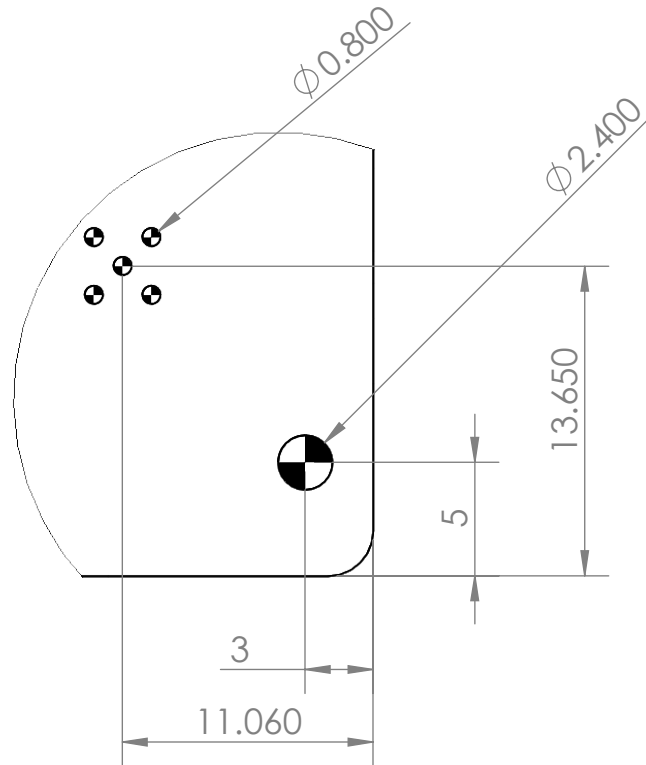
SIZE
A

SCALE: 3:1
SHEET 3 OF 7





card 20



DETAIL E
SCALE 3 : 1



UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN MILLIMETERS
TOLERANCES:
FRACTIONAL: 1/32
ANGULAR: MACH ± BEND ±
TWO PLACE DECIMAL ±.01
THREE PLACE DECIMAL ± .001

MATERIAL
FR4
FINISH
--
Weight
DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	Joe S.	2017-10-05
CHECKED	--	
ENG APPR.	--	
MFG APPR.	--	

Description:
MMCX and backplane mounting holes
near the -Z, +Y corner

COMMENTS:

DWG. NO.

--

REV
i

SIZE
A

SCALE: 3:1
SHEET 6 OF 7

