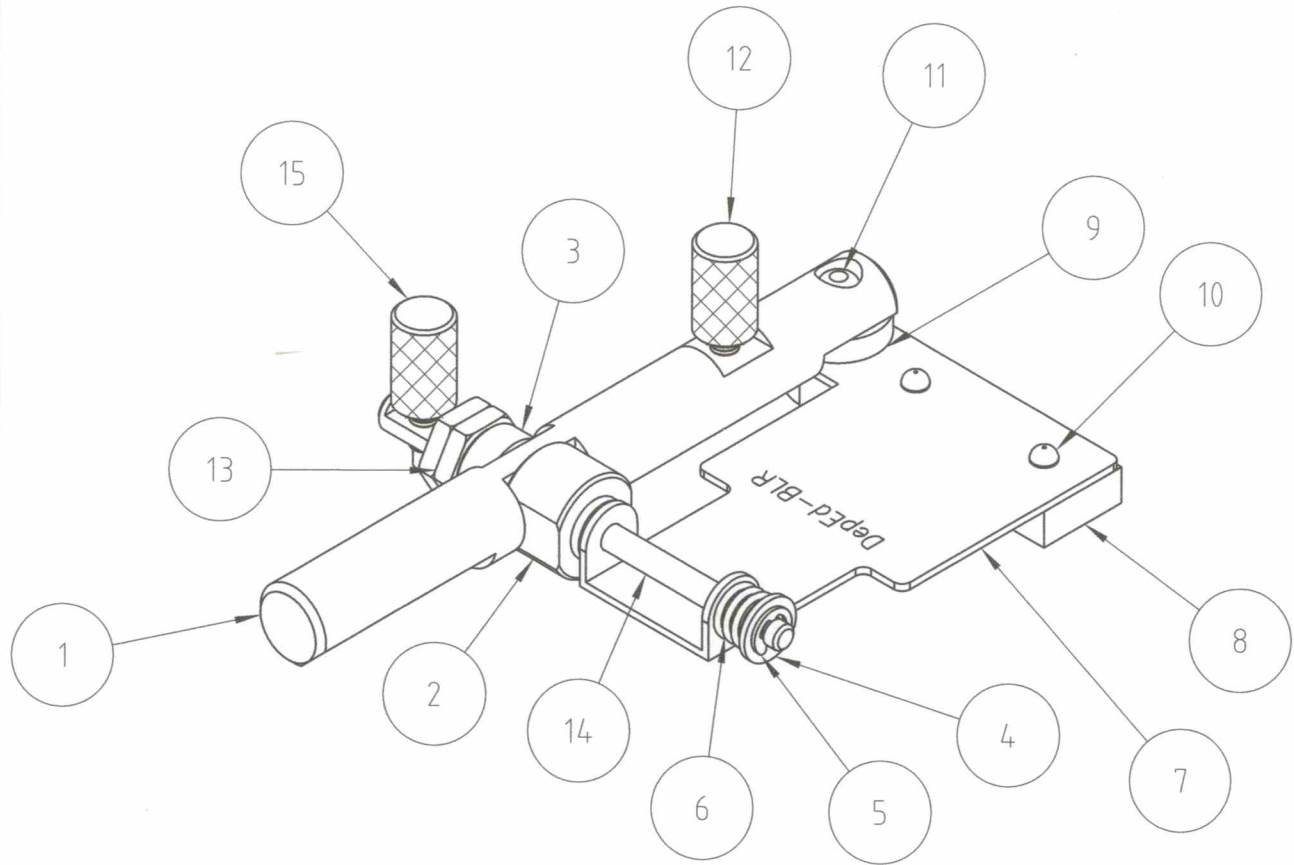


Item	Qty	Description
1	1	HANDLE SHAFT
2	1	SPACER 1
3	1	SPACER 2
4	1	WASHER
5	1	RETAINING RING
6	4	SPRING
7	1	LANDING PAD
8	1	RUBBER BUMPER
9	1	O-MAGNET
10	2	BLIND RIVET for the rubber bumper
11	1	BLIND RIVET for the o-magnet
12	1	BINDING SCREW 1
13	2	HEX NUT
14	1	SPINDLE
15	1	BINDING SCREW 2



GOVERNMENT PROPERTY

Date	SEPT 2021	Scale	NTS	FREE-FALL APPARATUS	
Conceptualized by					
Drawn by	B.C. Lisonda	Q.C. Checked by	J.N. Arjoja	Material	pad switch assy
Designed by				Recommended by	A.B. Ybañez
Approved by				Approved by	R. C. La Rosa



DepED-BLR

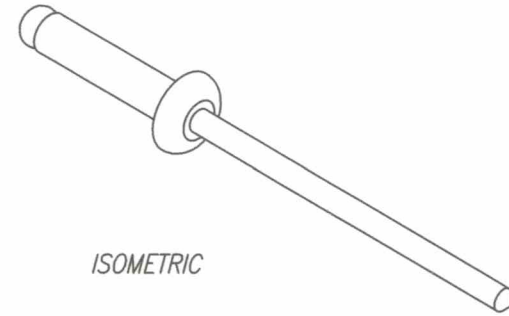
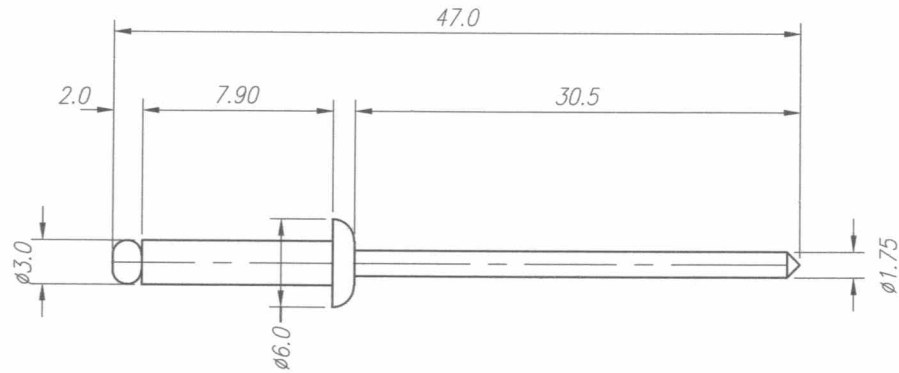
TOLERANCES FOR LENGTH GAUGING						
Grade of Accuracy	Nominal Size	0.5 to 3	Over 3 to 6	Over 6 to 30	Over 30 to 120	Over 120 to 400
Medium		$\pm 0.10$	$\pm 0.10$	$\pm 0.20$	$\pm 0.30$	$\pm 0.50$

TOLERANCES FOR RADIUS & CHAMFERS					
Grade of Accuracy	Nominal Size	0.5 to 3	Over 3 to 6	Over 6 to 30	Over 30 to 120
Smooth		$\pm 0.20$	$\pm 0.50$	$\pm 1.00$	$\pm 2.00$
Medium					

SYM	REVISION	DATE	BY

BATCH "B"



ALUMINUM BLIND RIVET (Market Item)

\*Dimensions are in millimeters.  
\*Surface Roughness: 1.0 to 1.2  $\mu\text{m}$ .

GOVERNMENT PROPERTY

TOLERANCES FOR LENGTH GAUGING

Grade of Accuracy	Nominal Size	0.5 to 3	Over 3 to 6	Over 6 to 30	Over 30 to 120	Over 120 to 400
Medium		$\pm 0.10$	$\pm 0.10$	$\pm 0.20$	$\pm 0.30$	$\pm 0.50$

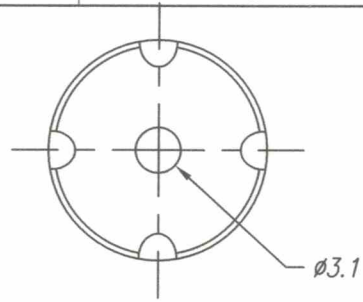
TOLERANCES FOR RADIUS & CHAMFERS

Grade of Accuracy	Nominal Size	0.5 to 3	Over 3 to 6	Over 6 to 30	Over 30 to 120
Smooth		$\pm 0.20$	$\pm 0.50$	$\pm 1.00$	$\pm 2.00$
Medium		$\pm 0.20$	$\pm 0.50$	$\pm 1.00$	$\pm 2.00$

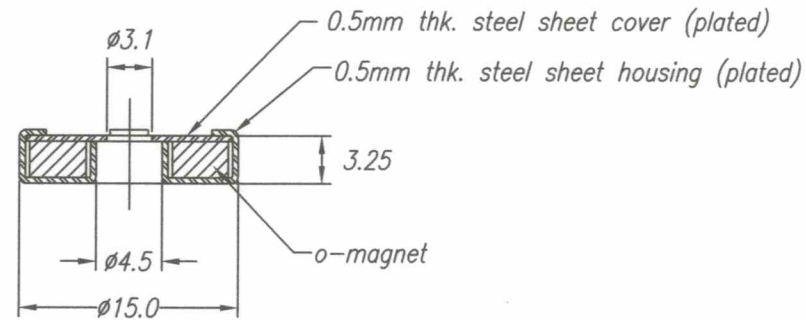
SYM	REVISION	DATE	BY

Date	SEPT 2021	Scale	NTS	FREE-FALL APPARATUS			
Conceptualized by						Item Name	Blind Rivet
Drawn by	B.C. Lisonda	Q.C. Checked by	J.N. Arioja	Material	Aluminum	File name	pad switch rivet
Recommended by	A.B. Ybanez			 <b>DepED-BLR</b>			
Approved by	R. C. La Rosa						

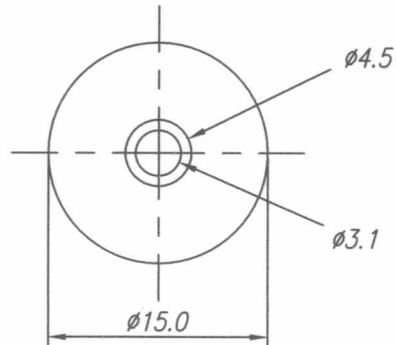
BATCH "B"



TOP VIEW




FRONT SECTIONAL VIEW



BOTTOM VIEW

- \* Dimensions are in millimeters except otherwise specified.
- \* File all sharp edges.
- \* Surface Roughness @ 1.00 to 1.20  $\mu$ m

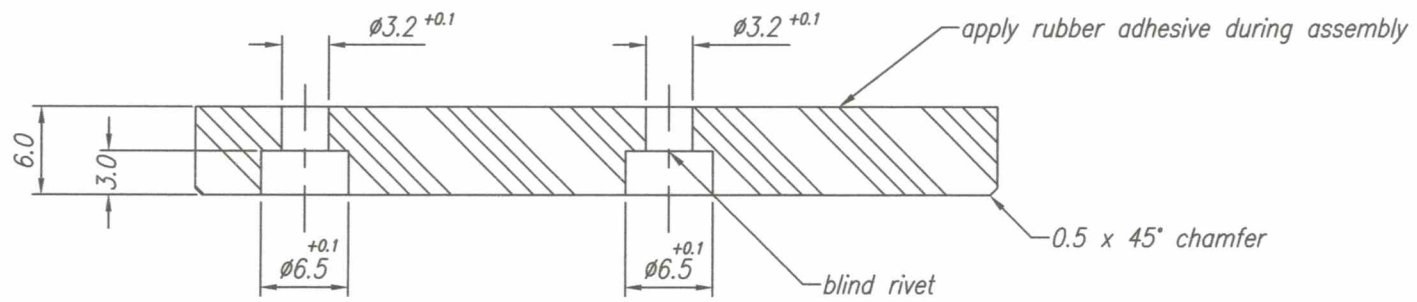
GOVERNMENT PROPERTY

Date	SEPT 2021	Scale	NTS	
Conceptualized by				
Drawn by	B.C. Lisondra	Item Name	② Pad Switch - O-Magnet	Sheet
Designed by		Material	(Market Item)	04
Q.C. Checked by	J.N. Ajoja	File name	pad switch magnet	
Recommended by	A.B. Ybanez	 <b>DepED-BLR</b>		
Approved by	R. C. La Rosa			

TOLERANCES FOR LENGTH GAUGING						
Grade of Accuracy	Nominal Size	0.5 to 3	Over 3 to 6	Over 6 to 30	Over 30 to 120	Over 120 to 400
Medium		$\pm 0.10$	$\pm 0.10$	$\pm 0.20$	$\pm 0.30$	$\pm 0.50$
TOLERANCES FOR RADIUS & CHAMFERS						
Grade of Accuracy	Nominal Size	0.5 to 3	Over 3 to 6	Over 6 to 30	Over 30 to 120	
Smooth		$\pm 0.20$	$\pm 0.50$	$\pm 1.00$	$\pm 2.00$	
Medium						

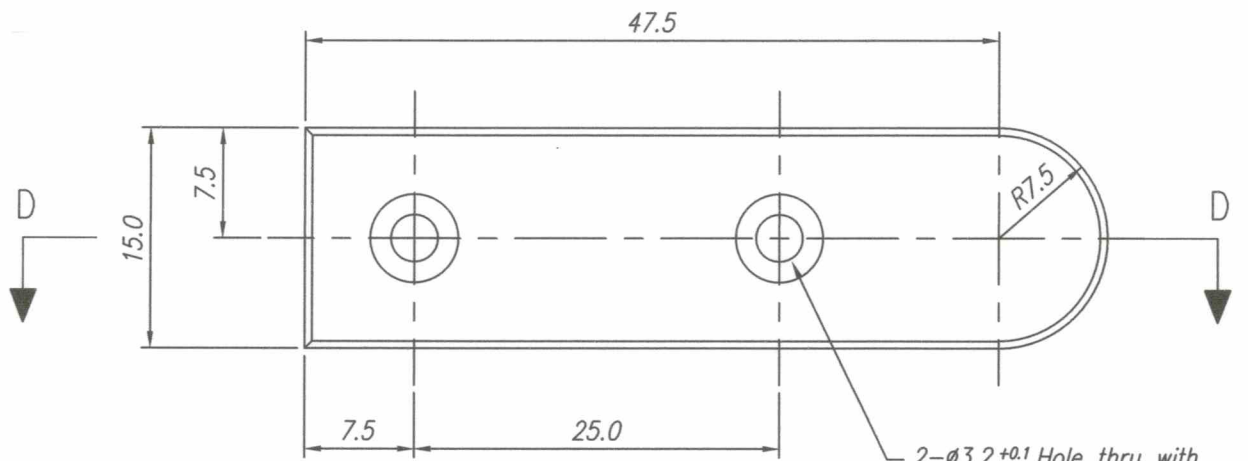
SYM	REVISION	DATE	BY

BATCH "B"



SECTION D-D

\*Rubber Hardness = 74  $\pm 5$  Durometer, Type A



BOTTOM VIEW

- \* Dimensions are in millimeters except otherwise specified.
- \* File all sharp edges.
- \* Surface Roughness @ 1.00 to 1.20  $\mu m$


GOVERNMENT PROPERTY

TOLERANCES FOR LENGTH GAUGING						
Grade of Accuracy	Nominal Size	Over 0.5 to 3	Over 3 to 6	Over 6 to 30	Over 30 to 120	Over 120 to 400
Medium		$\pm 0.10$	$\pm 0.10$	$\pm 0.20$	$\pm 0.30$	$\pm 0.50$

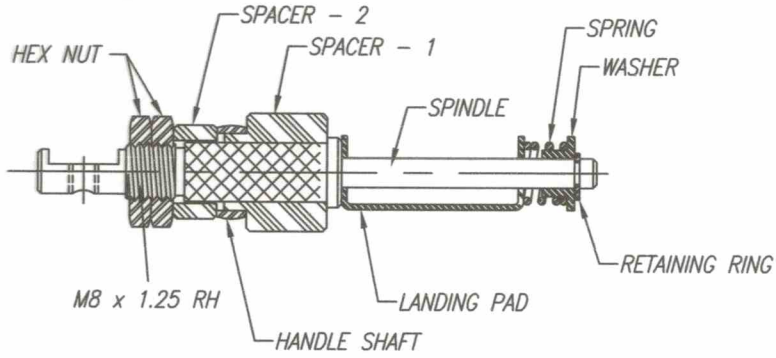
TOLERANCES FOR RADIUS & CHAMFERS					
Grade of Accuracy	Nominal Size	Over 0.5 to 3	Over 3 to 6	Over 6 to 30	Over 30 to 120
Smooth		$\pm 0.20$	$\pm 0.50$	$\pm 1.00$	$\pm 2.00$
Medium					

SYM	REVISION	DATE	BY

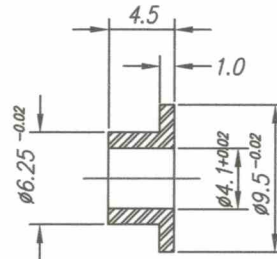
Date	SEPT 2021	Scale	NTS	FREE-FALL APPARATUS	
Conceptualized by					
Drawn by	B.C. Lisondra	Item Name	Pad Switch - Rubber Bumper	Sheet	06
Designed by		Q.C. Checked by	J.N. Arioja	Material	Hard Black Rubber
				File name	pad switch rubber bumper
Recommended by	A.B. Ybanez			<h1>DepED-BLR</h1>	
Approved by	R. C. La Rosa				



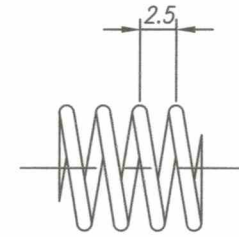
BATCH "B"



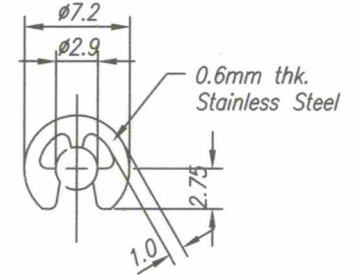
KEY VIEW



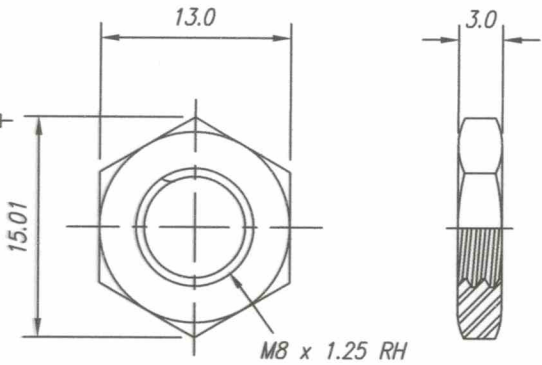
WASHER  
Material: Stainless Steel,  
AISI 304/304L  
or its equivalent



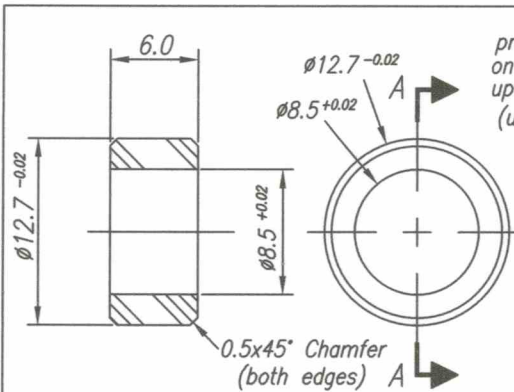
SPRING:  
OPEN ENDS, GROUND,  
RIGHT-HAND HELIX  
Outside Dia.: 8.5mm ±0.10mm  
Wire Dia.: 1.0mm ±0.01mm  
Pitch: 2.5mm  
No. of Coils: 4  
Material:  $\phi$ 1.0mm Stainless  
Steel Spring Wire  
AISI 302 (0.08C; 0.6Si; 1.2Mn; 18Cr; 9Ni)



RETAINING RING  
(Market Item)

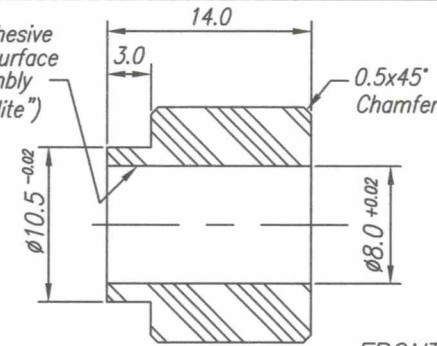


FRONT VIEW HALF SECTION  
HEX NUT  
Material: Stainless Steel, AISI 304/304L  
or its equivalent

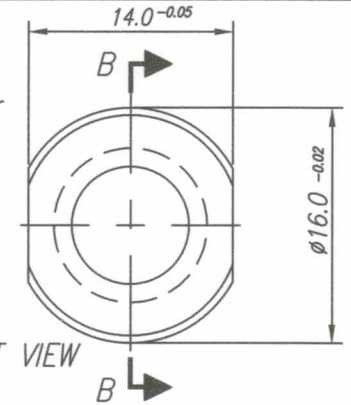


SECTION A-A FRONT VIEW  
SPACER - 2  
Material: Polyamide (Nylon)  
PA 66 (Natural)

provide adhesive  
on inside surface  
upon assembly  
(use "Araldite")



SECTION B-B



FRONT VIEW  
SPACER - 1  
Material: Polyamide (Nylon)  
PA 66 (Natural)

- \* Dimensions are in millimeters except otherwise specified.
- \* File all sharp edges.
- \* Surface Roughness @ 1.00 to 1.20  $\mu$ m.

GOVERNMENT PROPERTY

Date	SEPT 2021	Scale	NTS	FREE-FALL APPARATUS	
Conceptualized by					
Drawn by	B.C. Lisondra	Item Name	Pad Switch - Fittings	Sheet	02
Designed by	Q.C. Checked by	Material	File name pad switch fittings		
Recommended by	J.N. Arifia				
Approved by	A.B. Ybañez				
BY		R. C. La Rosa	DepED-BLR		

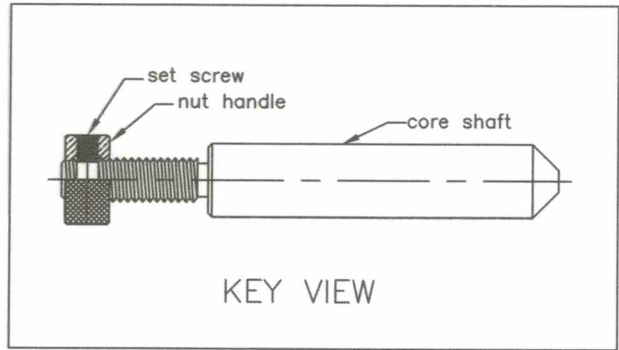
TOLERANCES FOR LENGTH GAUGING						
Grade of Accuracy	Nominal Size	0.5 to 3	Over 3 to 6	Over 6 to 30	Over 30 to 120	Over 120 to 400
Medium		± 0.10	± 0.10	± 0.20	± 0.30	± 0.50

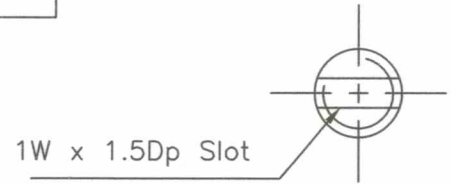
TOLERANCES FOR RADIUS & CHAMFERS					
Grade of Accuracy	Nominal Size	0.5 to 3	Over 3 to 6	Over 6 to 30	Over 30 to 120
Smooth		± 0.20	± 0.50	± 1.00	± 2.00
Medium					

SYM	REVISION	DATE	BY

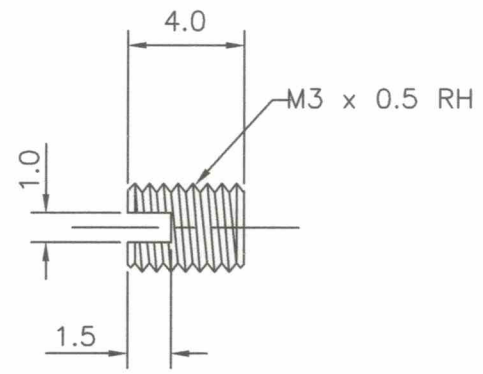
BATCH "B"



KEY VIEW



FRONT VIEW



RIGHT SIDE VIEW


- \* Dimensions are in millimeters except otherwise specified.
- \* File all sharp edges.
- \* Surface Roughness @ 1.00 to 1.20  $\mu$ m

GOVERNMENT PROPERTY

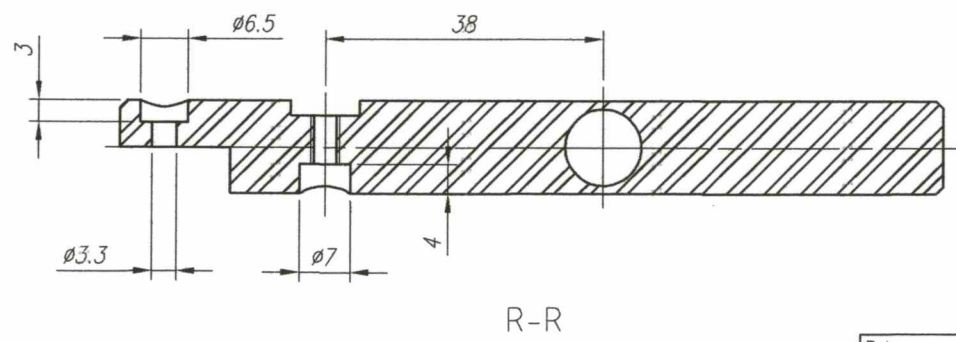
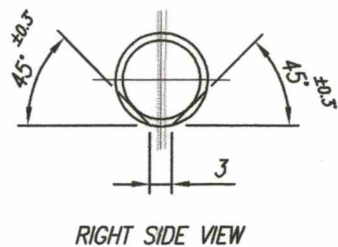
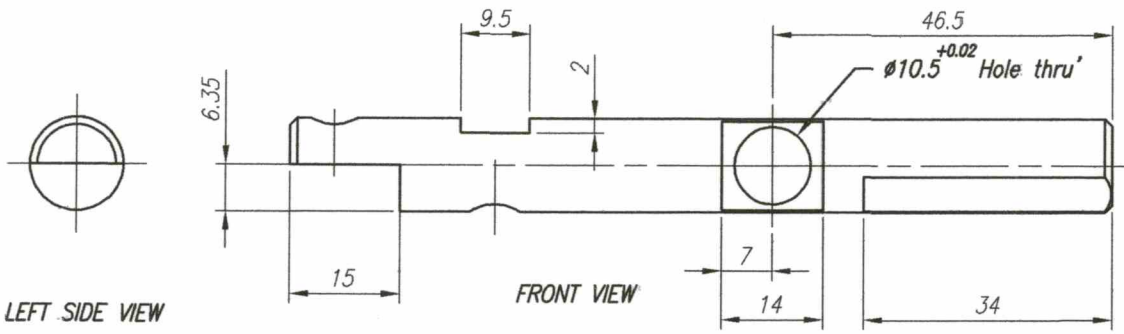
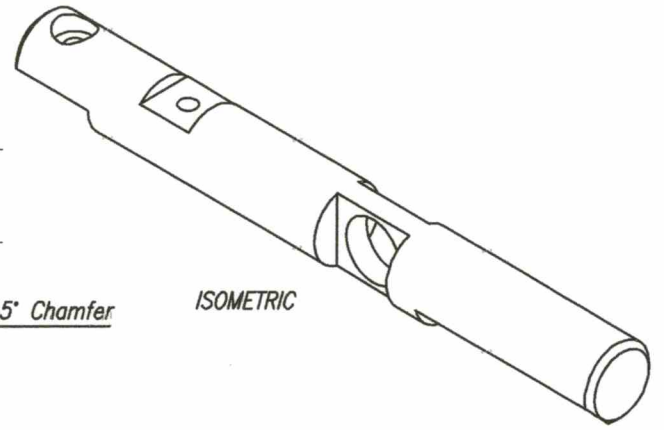
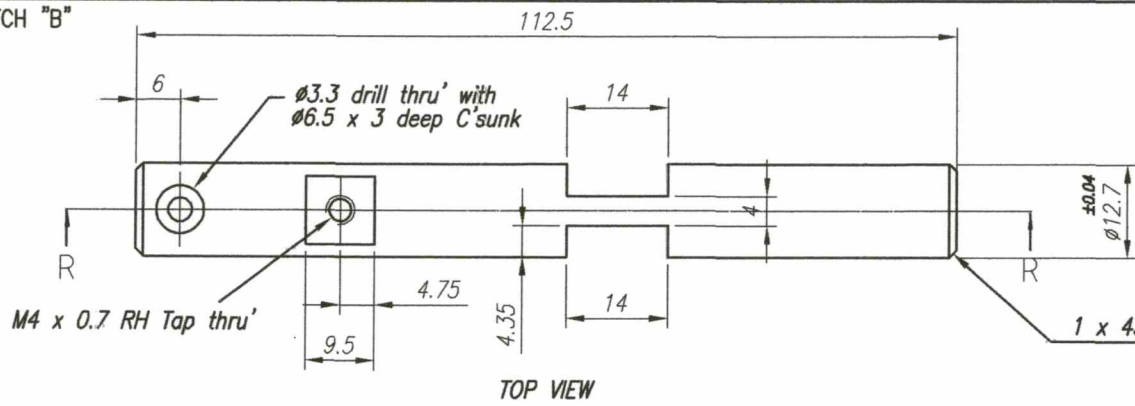
TOLERANCES FOR LENGTH GAUGING						
Grade of Accuracy	Nominal Size	0.5 to 3	Over 3 to 6	Over 6 to 30	Over 30 to 120	Over 120 to 400
Medium		$\pm 0.10$	$\pm 0.10$	$\pm 0.20$	$\pm 0.30$	$\pm 0.50$

TOLERANCES FOR RADIUS & CHAMFERS					
Grade of Accuracy	Nominal Size	0.5 to 3	Over 3 to 6	Over 6 to 30	Over 30 to 120
Smooth		$\pm 0.20$	$\pm 0.50$	$\pm 1.00$	$\pm 2.00$
Medium					

Date	SEPT 2021	Scale	NTS	FREE-FALL APPARATUS		
Conceptualized by						
Drawn by	B.C. Lisondra	Item Name	SOLENOID CORE SHAFT-SET SCREW		Sheet	10
Designed by		Q.C. Checked by	J.N. Añejo	Material	Stainless Steel, AISI 304/304L or its equivalent	
Recommended by	A.B. Ybañez				DepED-BLR	
Approved by	R. C. La Rosa					

BATCH "B"



\*Dimensions are in millimeters except otherwise specified.  
 \*Smoothen sharp edges.  
 \*Surface Roughness: 1.0 to 1.2 μm.

TOLERANCES FOR LENGTH GAUGING						
Grade of Accuracy	Nominal Size	0.5 to 3	Over 3 to 6	Over 6 to 30	Over 30 to 120	Over 120 to 400
Medium		± 0.10	± 0.10	± 0.20	± 0.30	± 0.50

TOLERANCES FOR RADIUS & CHAMFERS					
Grade of Accuracy	Nominal Size	0.5 to 3	Over 3 to 6	Over 6 to 30	Over 30 to 120
Smooth Medium		± 0.20	± 0.50	± 1.00	± 2.00


SYM	REVISION	DATE	BY

Date	SEPT 2021	Scale	NTS
Conceptualized by			
Drawn by	B.C. Lisondra		
Designed by	B.C. Checked by		
Recommended by	J.N. Anoja		
Approved by	A.B. Ybañez		
	R. C. La Resa		

GOVERNMENT PROPERTY

**FREE-FALL APPARATUS**

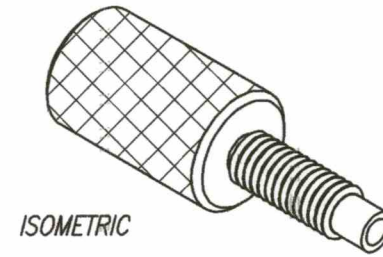
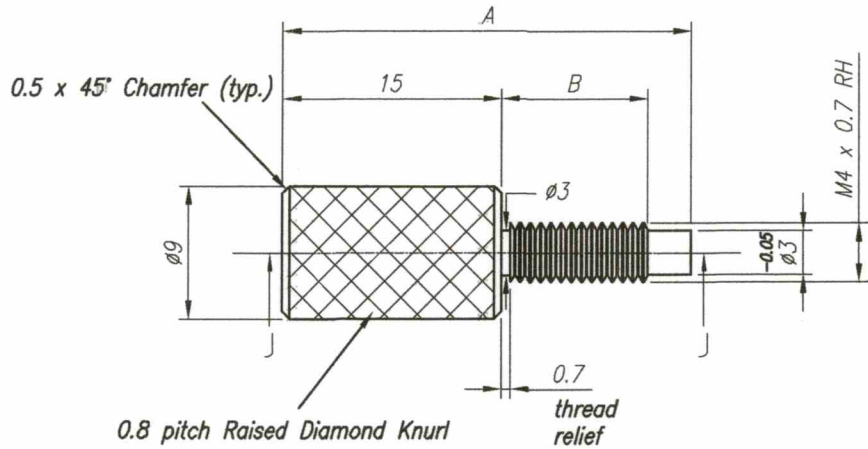
Item Name	PAD SWITCH - HANDLE SHAFT	Sheet	
Material	Stainless Steel, AISI 304/304L or its equivalent	File name	FreeFall padgate



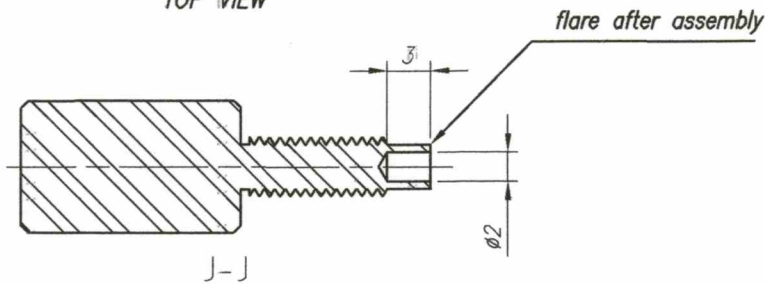
DepED-BLR



BATCH "B"



TOP VIEW



Schedule for A and B:				
Item	Description	A	B	Qty.
1	BINDING SCREW 1	28	10	1 pc.
2	BINDING SCREW 2	25	7	1 pc.


\*Dimensions are in millimeters except otherwise specified.  
 \*Smoothen sharp edges.  
 \*Surface Roughness: 1.0 to 1.2 μm.

TOLERANCES FOR LENGTH GAUGING						
Grade of Accuracy	Nominal Size	0.5 to 3	Over 3 to 6	Over 6 to 30	Over 30 to 120	Over 120 to 400
Medium		± 0.10	± 0.10	± 0.20	± 0.30	± 0.50

TOLERANCES FOR RADIUS & CHAMFERS					
Grade of Accuracy	Nominal Size	0.5 to 3	Over 3 to 6	Over 6 to 30	Over 30 to 120
Smooth		± 0.20	± 0.50	± 1.00	± 2.00
Medium					

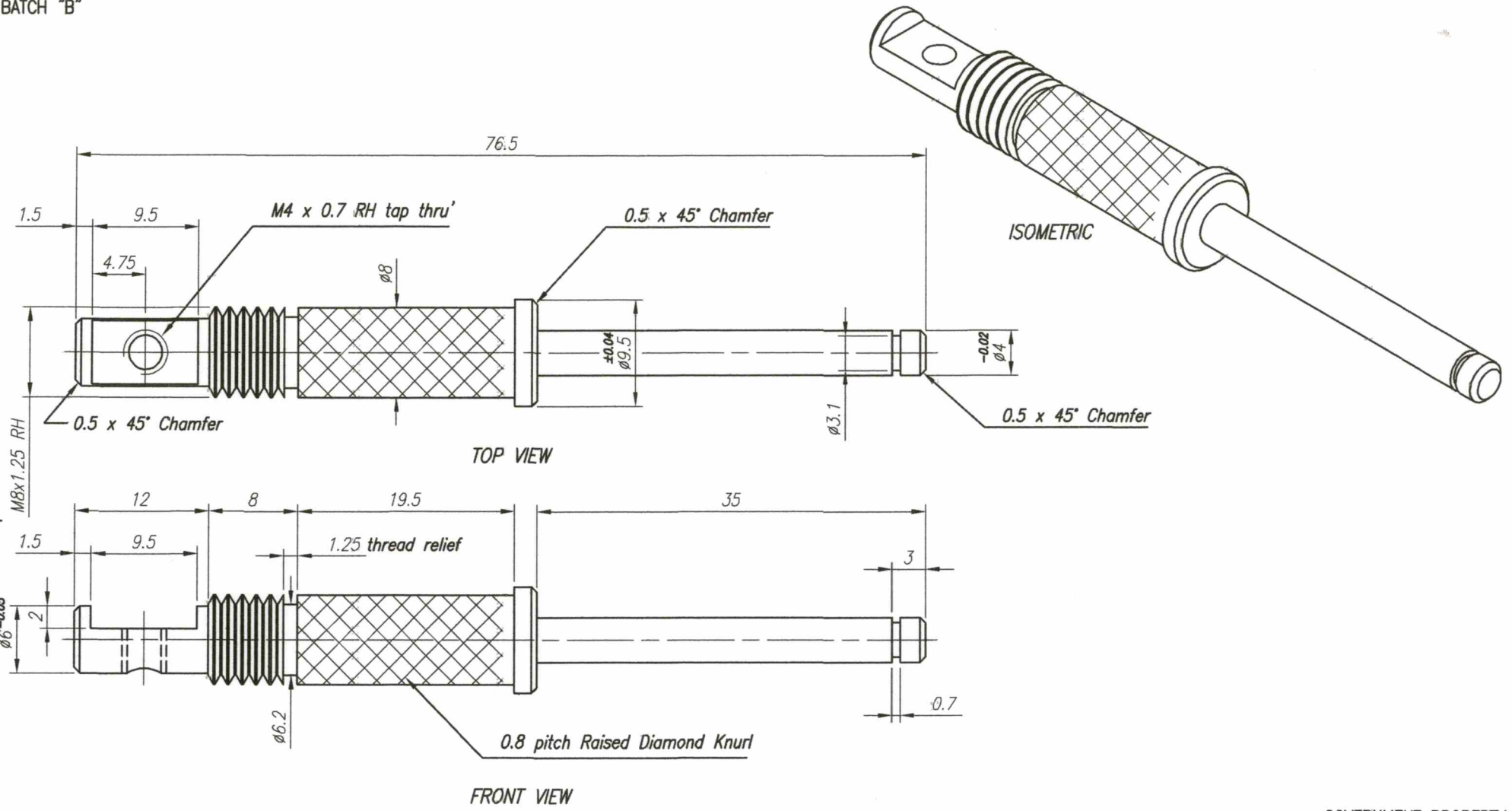
SYM REVISION DATE BY

Date	SEPT 2021	Scale	NTS	FREE-FALL APPARATUS	
Conceptualized by					
Drawn by	B.C. Lisondra	Item Name	PAD SWITCH - BINDING SCREWS		Sheet
Designed by		Checked by	J.N. Arioja	Material	Stainless Steel, AISI 304/304L or its equivalent
Recommended by	A.B. Ybañez	File name	FreeFall padgate		
Approved by	R. C. La Rosa			<h1>DepED-BLR</h1>	

GOVERNMENT PROPERTY



BATCH "B"




\*Dimensions are in millimeters except otherwise specified.  
 \*Smoothen sharp edges.  
 \*Surface Roughness: 1.0 to 1.2  $\mu\text{m}$ .

TOLERANCES FOR LENGTH GAUGING						
Grade of Accuracy	Nominal Size	Over 0.5 to 3	Over 3 to 6	Over 6 to 30	Over 30 to 120	Over 120 to 400
Medium		$\pm 0.10$	$\pm 0.10$	$\pm 0.20$	$\pm 0.30$	$\pm 0.50$

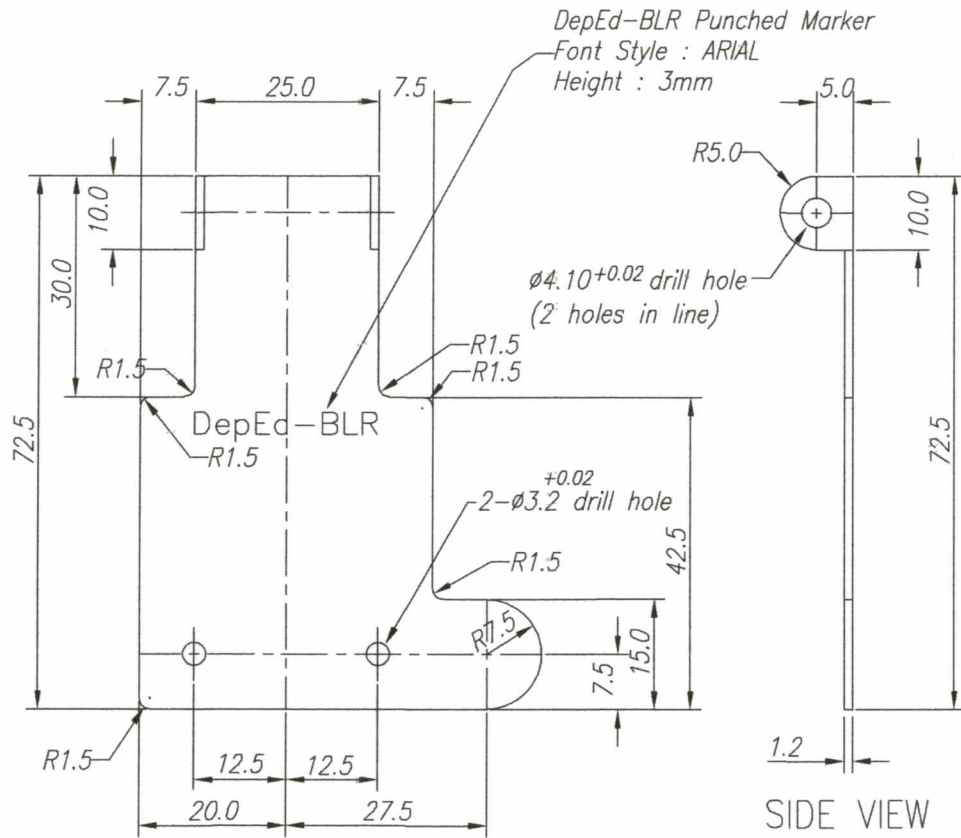
TOLERANCES FOR RADIUS & CHAMFERS					
Grade of Accuracy	Nominal Size	Over 0.5 to 3	Over 3 to 6	Over 6 to 30	Over 30 to 120
Smooth		$\pm 0.20$	$\pm 0.50$	$\pm 1.00$	$\pm 2.00$
Medium		$\pm 0.20$	$\pm 0.50$	$\pm 1.00$	$\pm 2.00$

Date	SEPT 2021	Scale	NTS	FREE-FALL APPARATUS	
Conceptualized by					
Drawn by	B.C. Lisondra	Item Name	PAD SWITCH - SPINDLE		Sheet
Designed by		Material	Stainless Steel, AISI 304/304L or its equivalent		File name
Checked by	J.N. Arioja			FreeFall padgate	
Recommended by	A.B. Ybañez	 DepED-BLR			
Approved by	R. C. La Rosa				

GOVERNMENT PROPERTY

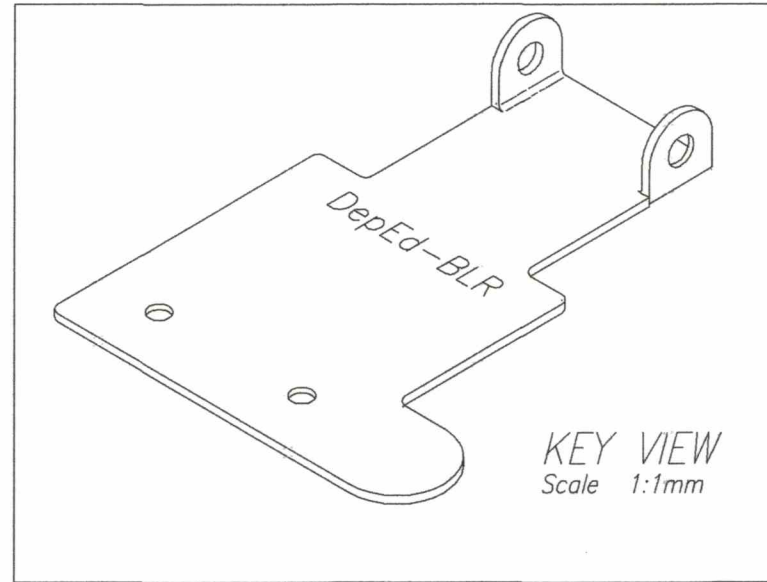
SYM	REVISION	DATE	BY

BATCH B



TOP VIEW

SIDE VIEW



KEY VIEW  
Scale 1:1mm

\* This pad is still to be chrome-plated.  
Chrome plate thickness must be 0.02mm (minimum) to 0.03mm (maximum).

- \* Dimensions are in millimeters except otherwise specified.
- \* Smoothen all sharp edges.
- \* Surface roughness @ 1.00 to 1.20  $\mu$ m.

GOVERNMENT PROPERTY

TOLERANCES FOR LENGTH GAUGING						
Grade of Accuracy	Nominal Size	Over 0.5 to 3	Over 3 to 6	Over 6 to 30	Over 30 to 120	Over 120 to 400
Medium		$\pm 0.10$	$\pm 0.10$	$\pm 0.20$	$\pm 0.30$	$\pm 0.50$

TOLERANCES FOR RADIUS & CHAMFERS					
Grade of Accuracy	Nominal Size	Over 0.5 to 3	Over 3 to 6	Over 6 to 30	Over 30 to 120
Smooth Medium		$\pm 0.20$	$\pm 0.50$	$\pm 1.00$	$\pm 2.00$

SYM	REVISION	DATE	BY

Date	SEPT 2021	Scale	NTS	FREE-FALL APPARATUS	
Conceptualized by					
Drawn by	B.C. Lisondra			Item Name	Pad Switch - Landing Pad
Designed by				Material	1.2mm thk. Mild Steel Sheet (Gage 18)
					File name pad switch landing pad
				DepED-BLR	
Recommended by	A.B. Ybanez				
Approved by	R. C. La Rosa				