

1 2 3 4 5 6 7 8 9 10 11 12

A

B

C

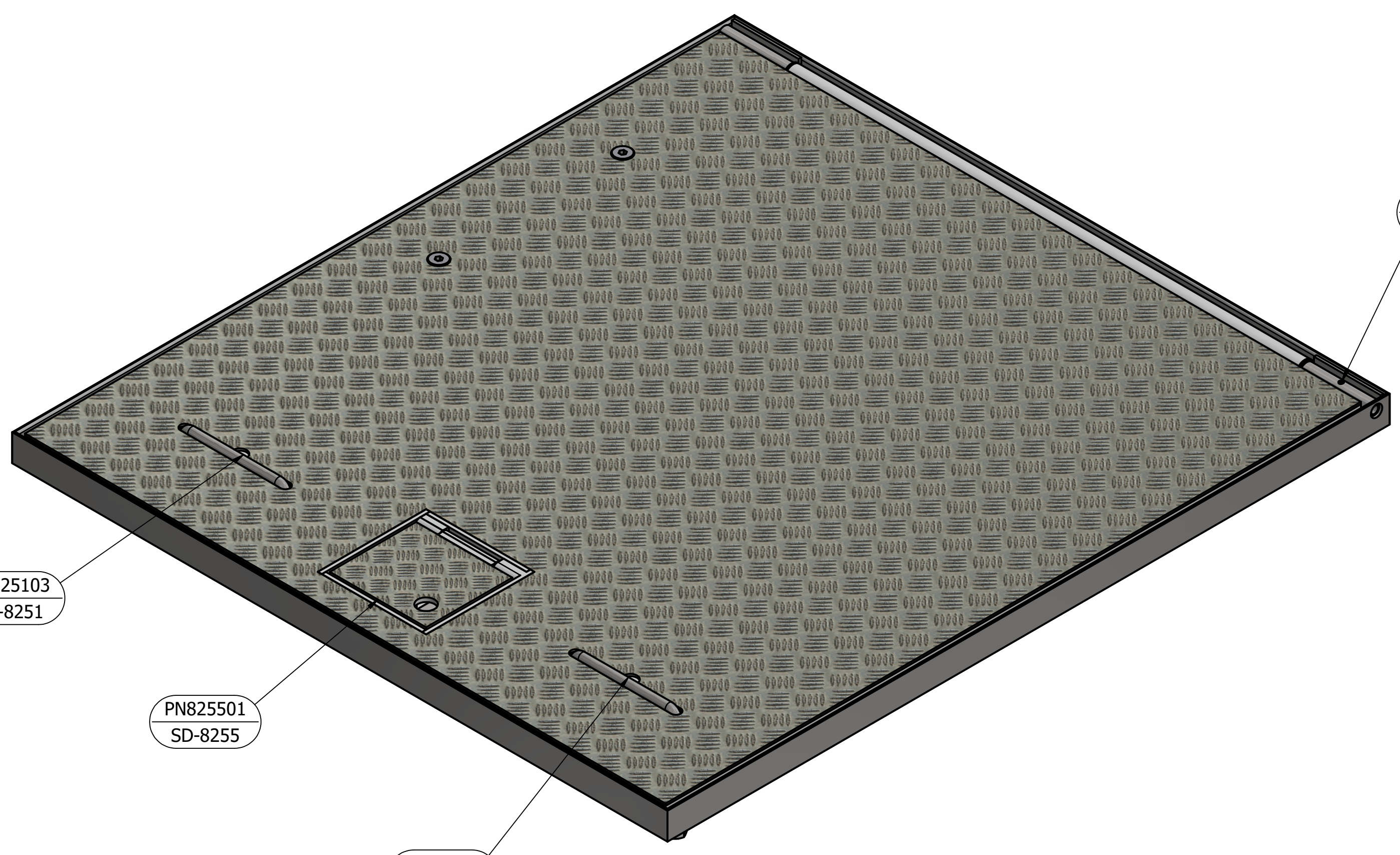
D

E

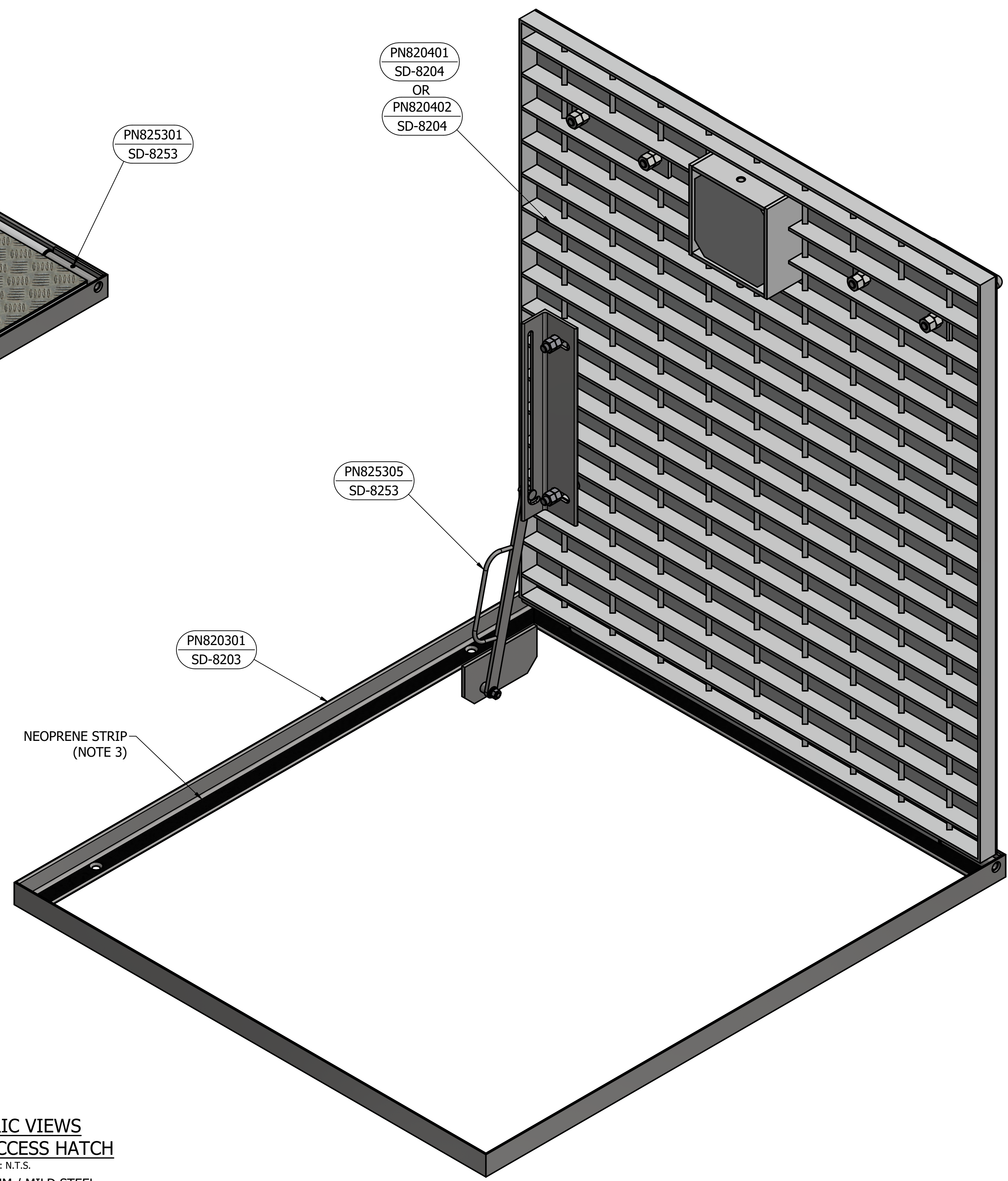
F

G

H



CLOSED POSITION



OPEN POSITION

PARTS LIST				
PART NUMBER	DESCRIPTION	QTY	MASS	REFERENCE
PN820301	HATCH FRAME	1	12 kg (14 kg)	SD-8203
PN820402	HATCH COVER (WEBGRATE STYLE)	1	19 kg (21 kg)	SD-8204
PN820401	HATCH COVER (STIFFENED PLATE STYLE)	1	19 kg (21 kg)	SD-8204
PN825501	LOCK BOX (SLIDE BOLT TYPE)	1	2 kg	SD-8255
PN825103	LIFTING HANDLE (FLUSH FIT TYPE)	2	1 kg	SD-8251
PN825301	HINGE	1	1 kg	SD-8253

MASS SHOWN IN BRACKETS () IS FOR HATCH WITH 900 x 1300 OPENING

NOTES:

- FOR ALUMINIUM FABRICATION NOTES REFER TO DRAWING SD-9103.
- FLUSH FIT ACCESS COVERS ARE AVAILABLE IN TWO STANDARD SIZES TO SUIT ICON WATER'S PORTABLE LIMITED FREE FALL ARREST AND EDGE PROTECTION EQUIPMENT. THESE ARE 900 x 900 C/O AND 900 x 1300 C/O.
- PROVIDE NEOPRENE STRIP BETWEEN HATCH FRAME AND COVER TO ISOLATE DISSIMILAR METALS.
- INSTALLERS TO PROVIDE Ø16 HOLE INTO FRAME SUPPORT STRUCTURE FOR LOCKING PIN.

**ISOMETRIC VIEWS
FLUSH FIT ACCESS HATCH**
SCALE: N.T.S.

MATERIAL: ALUMINIUM / MILD STEEL
COATING: GALVANISED (MILD STEEL PARTS ONLY)
FINISH COLOUR: N/A
MASS: 36 kg (40 kg) INCL. FRAME

ITEM	AMDT.
PN820101	

A	INITIAL ISSUE	15/06/2018	M. Matusiak	K. Danenbergson	D. Eager
No.	ISSUE	DATE	DRAWN	CHECKED	AUTHORISED

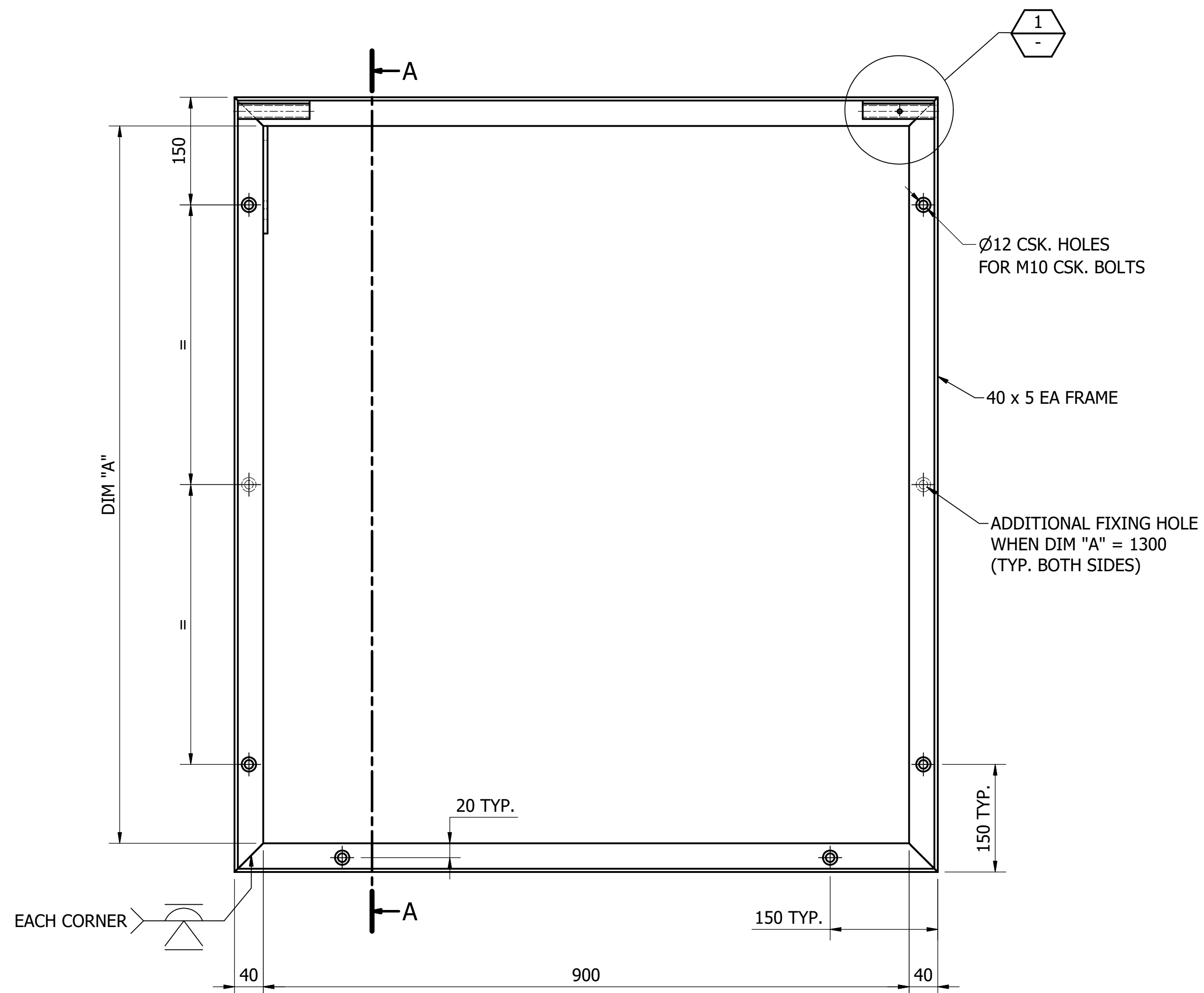
DAM	RES	SPS
BWS	WAT	STP
WTP	SEW	
WPS	REC	
ASSET AREA APPLICABILITY		



STANDARD DRAWING
FLUSH FIT ACCESS COVERS
ALUMINIUM, HINGED
GENERAL ARRANGEMENT

DRAWING STATUS	
Current	
SD-8201-D	
A1	ISSUE A
© Icon Water 2017	

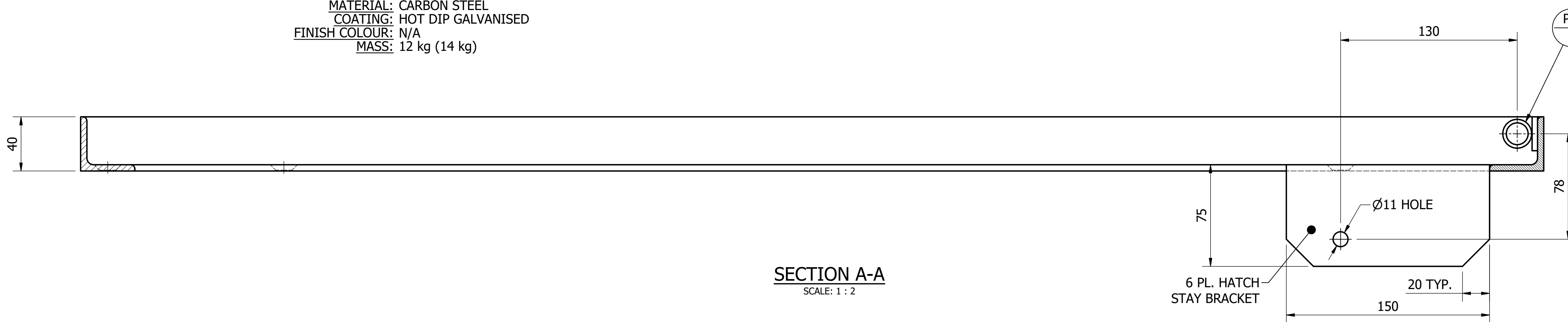
1 2 3 4 5 6 7 8 9 10 11 12



**PLAN
COVER FRAME**

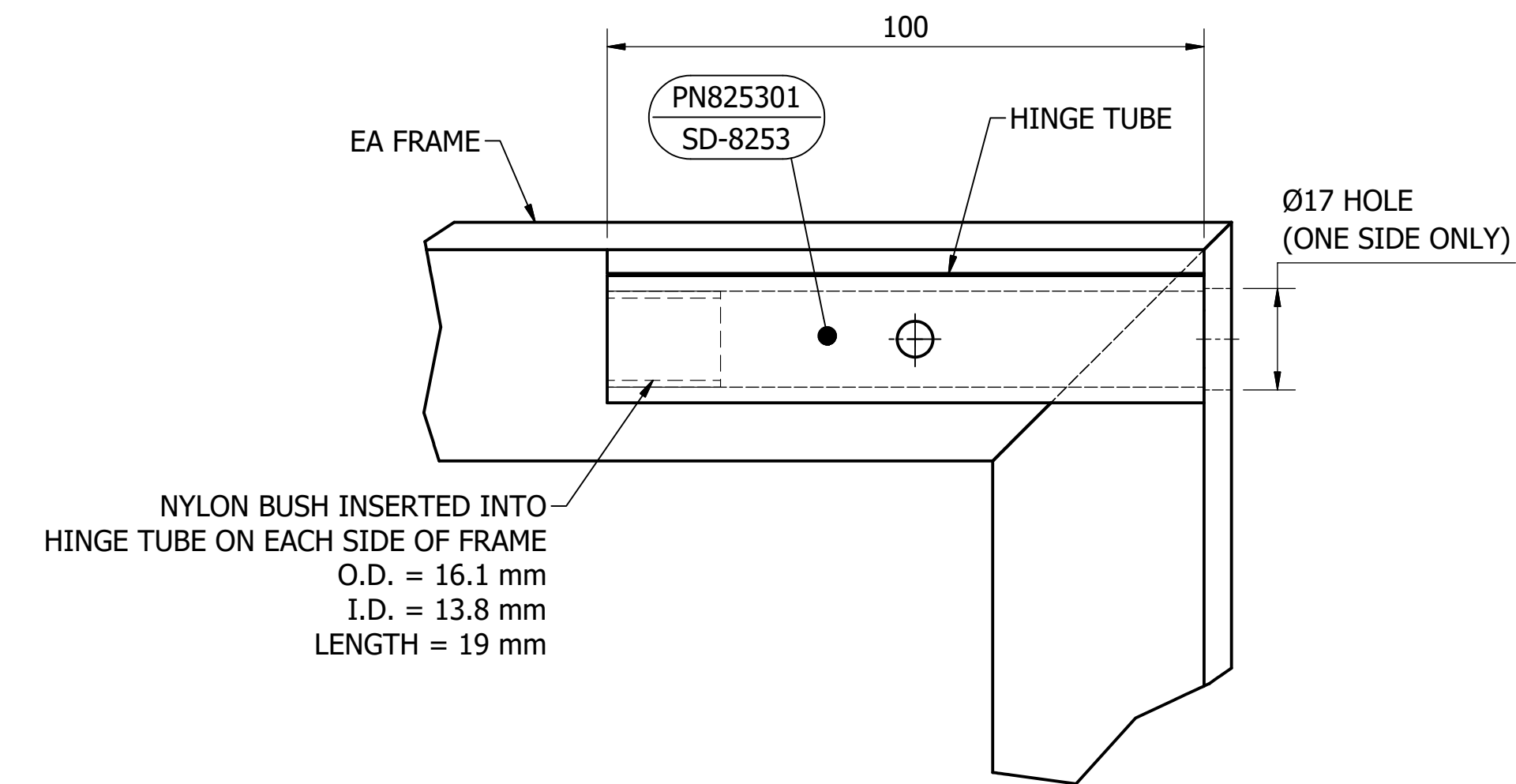
SCALE: 1 : 5

MATERIAL: CARBON STEEL
COATING: HOT DIP GALVANISED
FINISH COLOUR: N/A
MASS: 12 kg (14 kg)



SECTION A-A

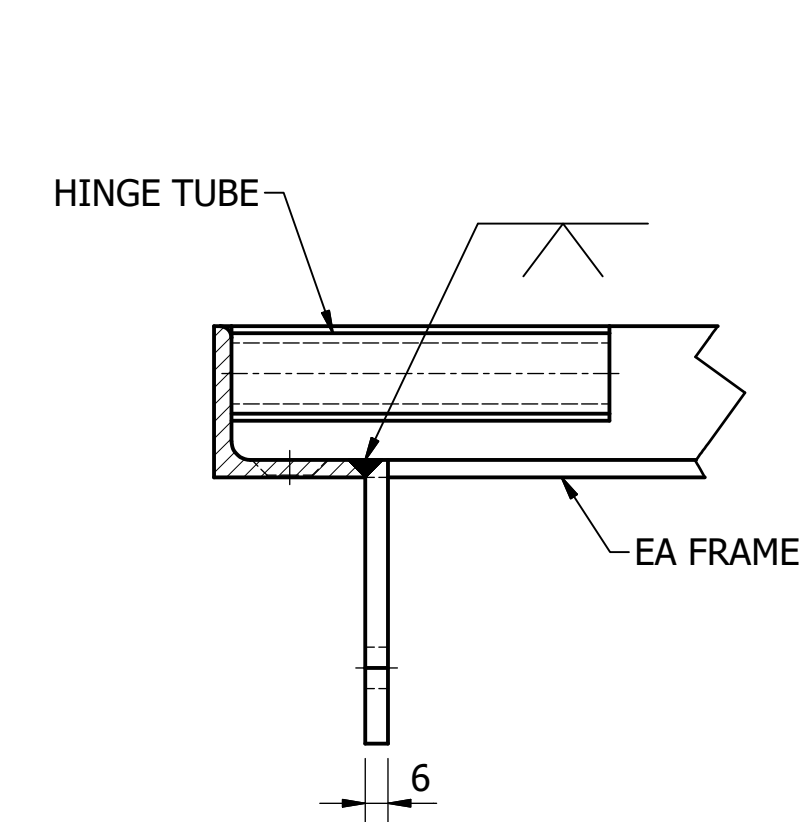
SCALE: 1 : 2



DETAIL 1

SCALE: 1 : 1

DIMENSION VARIABLES		
DIMENSION	VERTICAL RUNG LADDER	INCLINED RUNG LADDER
A	1000	1300



**END VIEW
HATCH STAY BRACKET**

SCALE: 1 : 2

NOTES:

- FOR STEELWORK NOTES REFER TO DRAWING SD-9100.
- MASS SHOWN IN BRACKETS () REFERS TO THE LARGER INCLINED RUNG LADDER HATCH.

ITEM	AMDT.
PN820301	

No.	ISSUE	DATE	DRAWN	CHECKED	AUTHORISED
A	INITIAL ISSUE	15/06/2018	M. Matusiak	K. Danenbergs	D. Eager

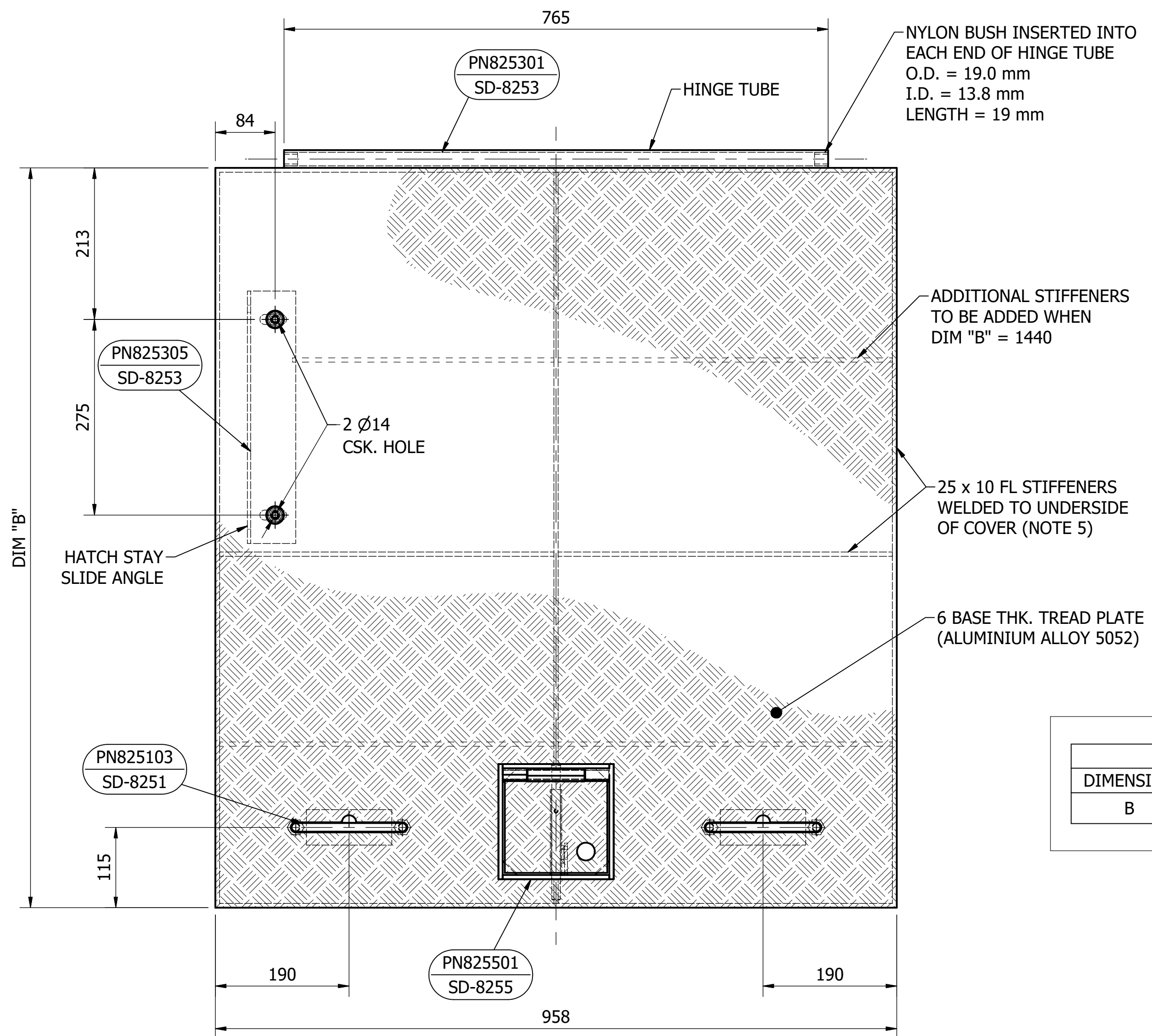
ASSET AREA APPLICABILITY				
DAM	RES	SPS		
BWS	WAT	STP		
WTP	SEW			
WPS	REC			



STANDARD DRAWING
FLUSH FIT ACCESS COVERS
ALUMINIUM, HINGED
BOLT-IN FRAME DETAILS

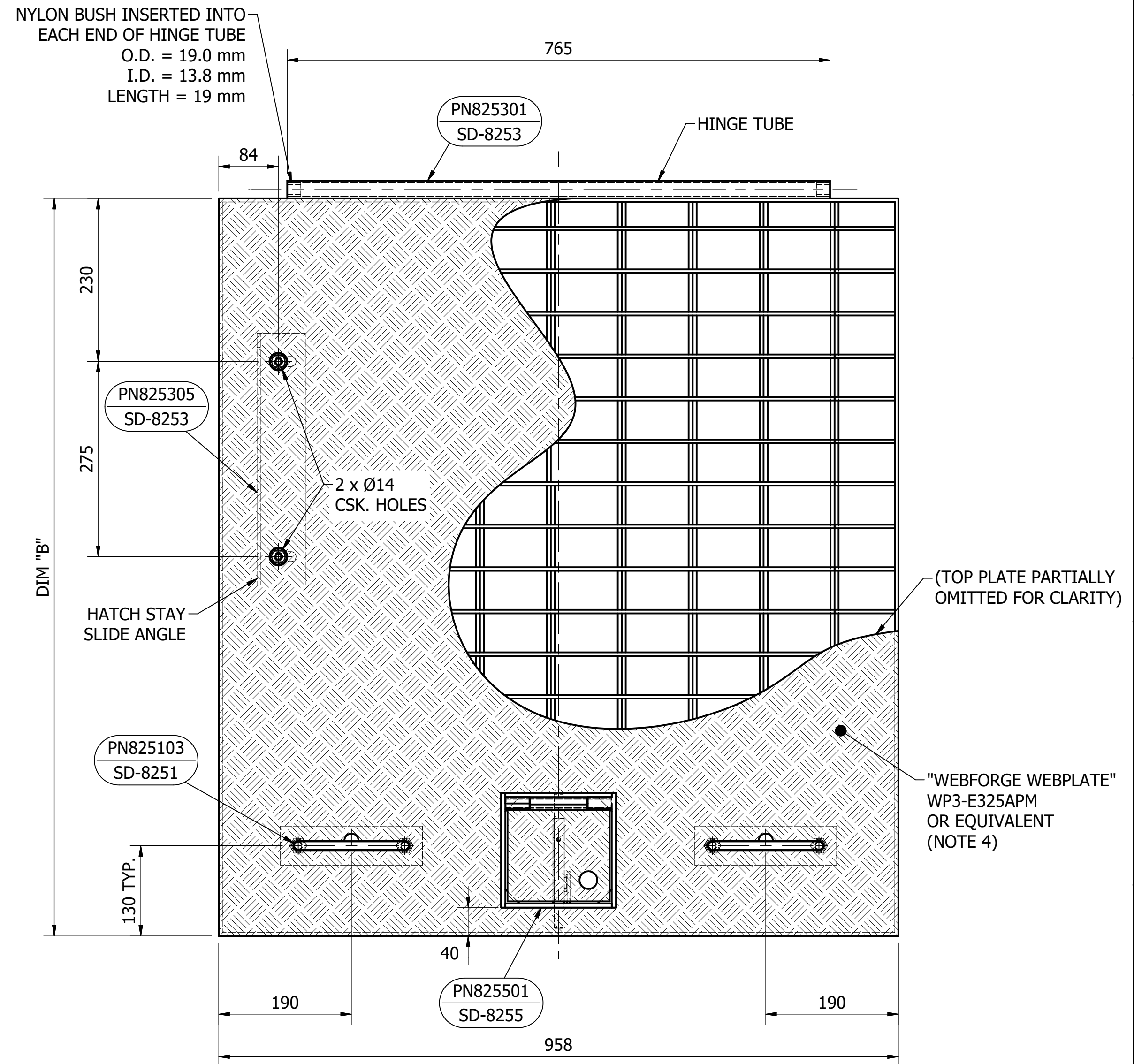
DRAWING STATUS	
Current	
SD-8203-D	
A1	ISSUE A

© Icon Water 2017



**PLAN
ACCESS COVER
STIFFENED PLATE STYLE**
SCALE: 1 : 5

MATERIAL: ALUMINIUM
COATING: N/A
FINISH COLOUR: N/A
MASS: 19 kg (21 kg)



**PLAN
ACCESS COVER
WEBPLATE STYLE**
SCALE: 1 : 5

MATERIAL: ALUMINIUM
COATING: N/A
FINISH COLOUR: N/A
MASS: 19 kg (21 kg)

DIMENSION VARIABLES		
DIMENSION	VERTICAL RUNG LADDER	INCLINED RUNG LADDER
B	1040	1440

ITEM	AMDT.
PN820402	

- NOTES:**
- FOR ALUMINIUM FABRICATION NOTES REFER TO DRAWING SD-9103.
 - ALL STAINLESS STEEL FIXTURES INTO ALUMINIUM TO BE SEPARATED WITH INSULATING BUSHES AND RETAINING RINGS OR WASHERS.
 - MASS SHOWN IN BRACKETS () REFERS TO THE LARGER INCLINED RUNG LADDER HATCH.
 - CARE TO BE TAKEN TO ALIGN WEBPLATE LOAD BARS AND CROSS RODS AS TO NOT INTERFERE WITH LIFTING HANDLES AND HATCH STAY.
 - INSTALL NEOPRENE STRIP AS ISOLATION BETWEEN STIFFENER BARS AND ALUMINIUM PLATE.

ITEM	AMDT.
PN820401	

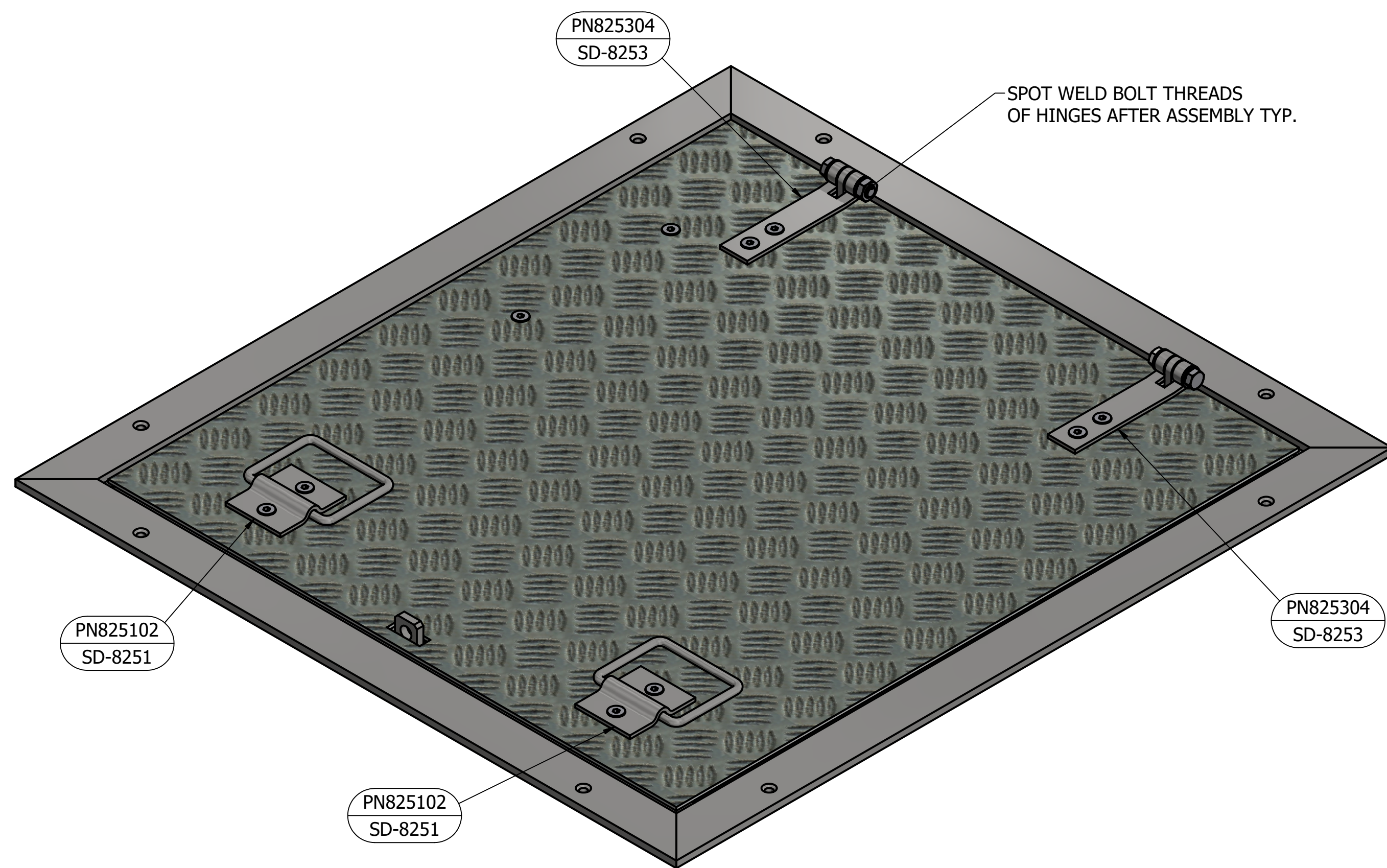
No.	ISSUE	DATE	DRAWN	CHECKED	AUTHORISED
A	INITIAL ISSUE	15/06/2018	M. Matusiak	K. Danenbergson	D. Eager

ASSET AREA APPLICABILITY				
DAM	RES	SPS		
BWS	WAT	STP		
WTP	SEW			
WPS	REC			

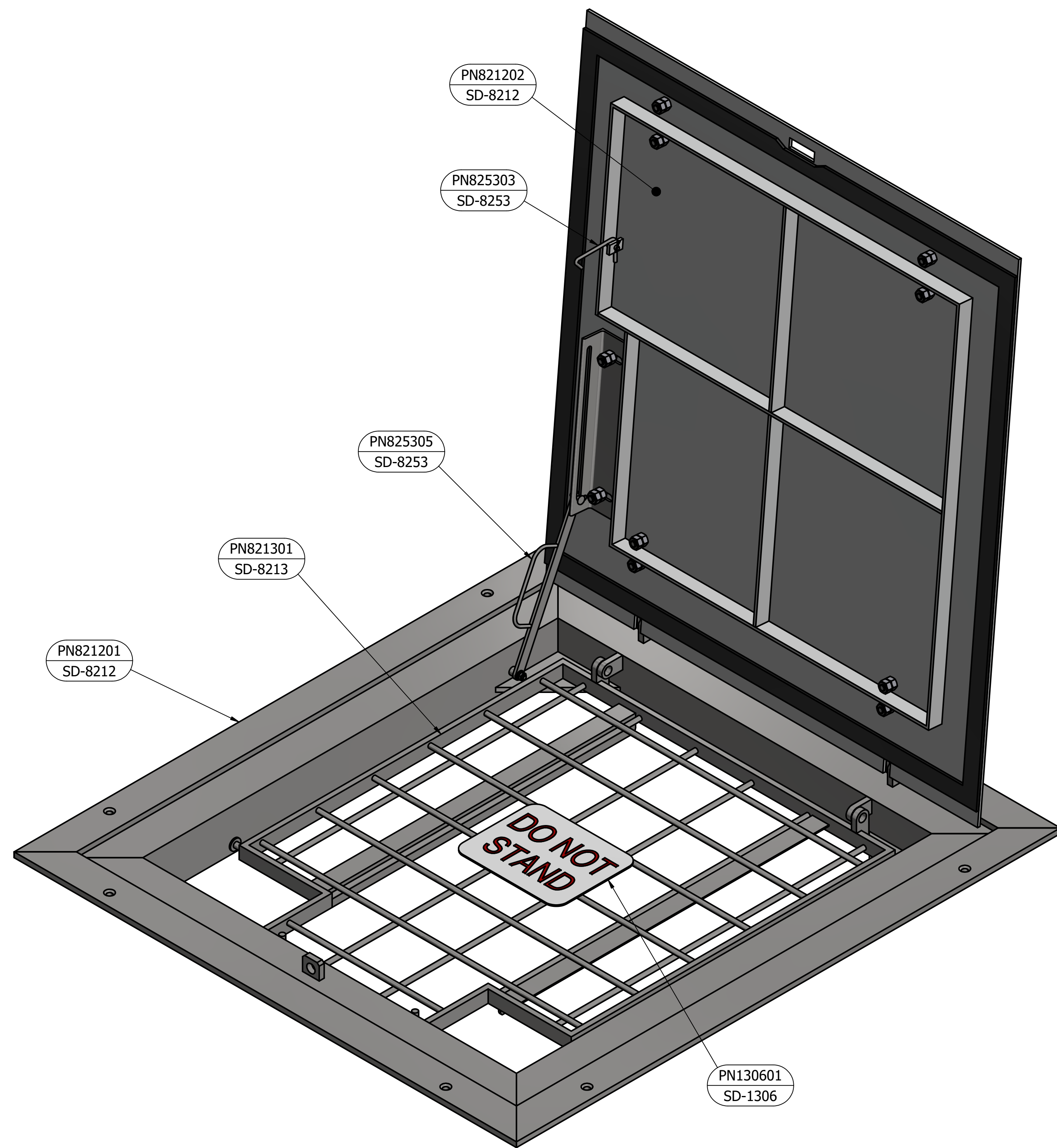


STANDARD DRAWING
FLUSH FIT ACCESS COVERS
ALUMINIUM, HINGED
COVER DETAILS

DRAWING STATUS	
Current	
SD-8204-D	
A1	ISSUE A



CLOSED POSITION



OPEN POSITION

PARTS LIST				
PART NUMBER	DESCRIPTION	QTY	MASS	REFERENCE
PN821201	HATCH FRAME	1	95 kg (110 kg)	SD-8212
PN821202	HATCH COVER	1	25 kg (30 kg)	SD-8212
PN821301	SAFETY GRATE	1	20 kg (30 kg)	SD-8213
PN825304	HINGE	2	1 kg	SD-8253
PN825102	LIFTING HANDLE	2	1 kg	SD-8251
PN825305	HATCH STAY	1	2 kg	SD-8253
PN825303	HATCH CATCH PIN	1	0.1 kg	SD-8253
PN130601	"DO NOT STAND" SIGN	1	2 kg	SD-1306

MASS SHOWN IN BRACKETS () IS FOR HATCH WITH 900 x 1300 OPENING

NOTES:

- FOR ALUMINIUM FABRICATION NOTES REFER TO DRAWING SD-9103.
- GAS-TIGHT ACCESS COVERS ARE AVAILABLE IN TWO STANDARD SIZES TO SUIT ICON WATER'S PORTABLE LIMITED FREE FALL ARREST AND EDGE PROTECTION EQUIPMENT. THESE ARE 900 x 1000 C/O AND 900 x 1300 C/O.

**ISOMETRIC VIEWS
GAS-TIGHT ACCESS HATCH**

SCALE: N.T.S.

MATERIAL: STAINLESS STEEL / ALUMINIUM
COATING: N/A
FINISH COLOUR: N/A
MASS: APPROX. 125 kg (145 kg) (INCL. FRAME)

ITEM	AMDT.
PN821101	

No.	ISSUE	DATE	DRAWN	CHECKED	AUTHORISED
A	INITIAL ISSUE	15/06/2018	M. Matusiak	K. Danenbergson	D. Eager

ICON WATER ACKNOWLEDGES SYDNEY WATER CORPORATION IN THE DEVELOPMENT OF THIS DRAWING

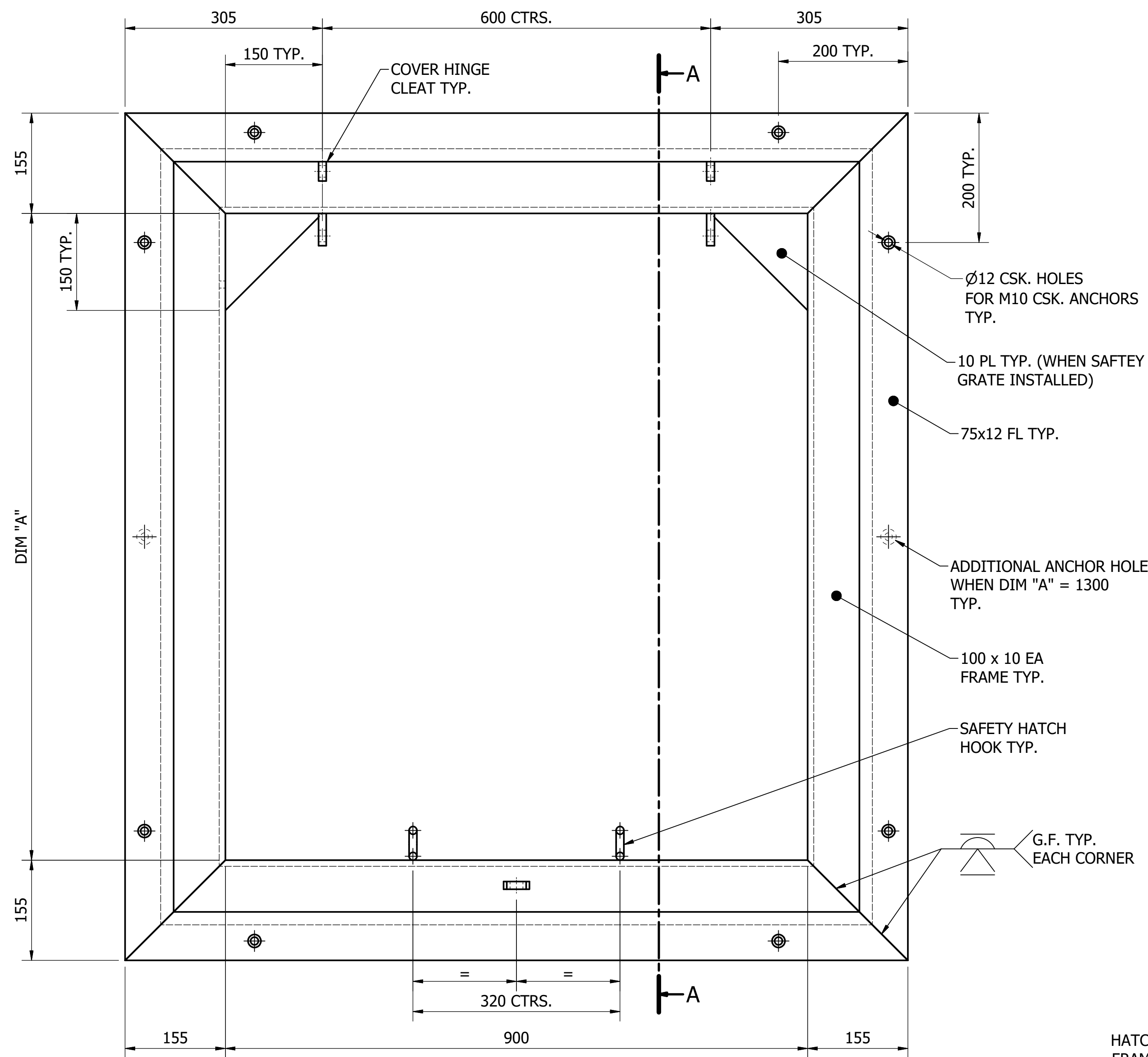
DAM	RES	SPS	WTP	WPS



STANDARD DRAWING
GAS-TIGHT ACCESS COVERS
ALUMINIUM, HINGED
GENERAL ARRANGEMENT

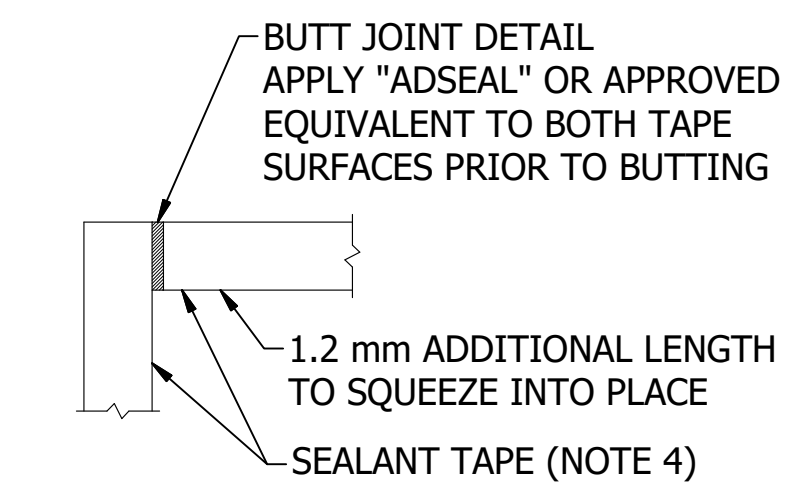
DRAWING STATUS	
Current	
SD-8211-D	
A1	ISSUE A

© Icon Water 2017

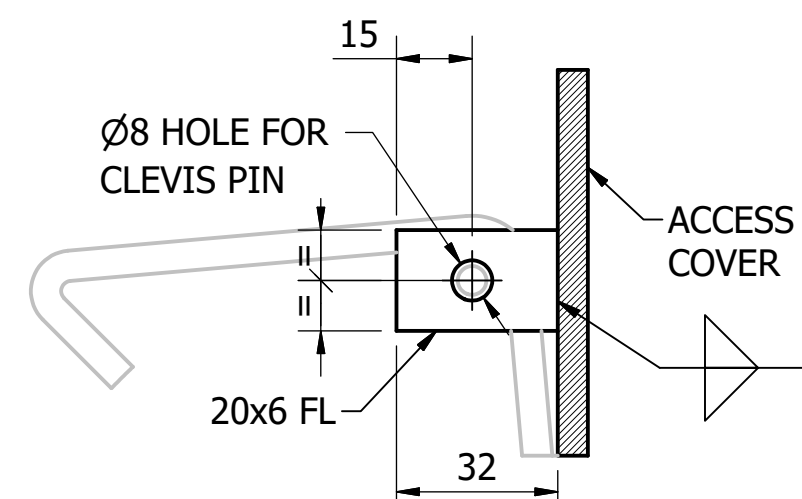


PLAN COVER FRAME
SCALE: 1 : 5

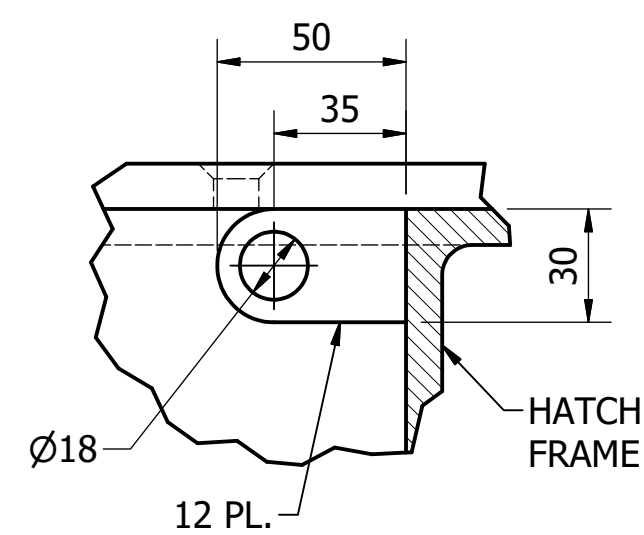
MATERIAL: STAINLESS STEEL
COATING: N/A
FINISH COLOUR: N/A
MASS: 95 kg (110 kg)



TYPICAL SEALING TAPE CORNER DETAIL
SCALE: N.T.S.

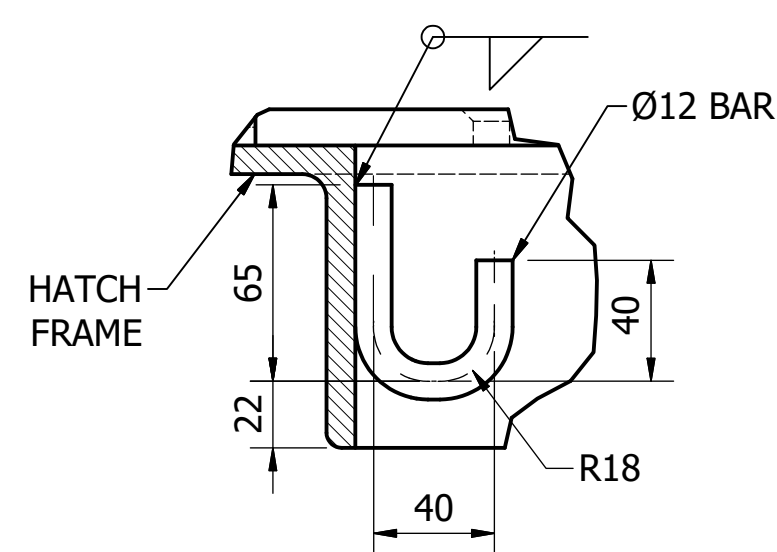


CATCH PIN LUG
SCALE: N.T.S.



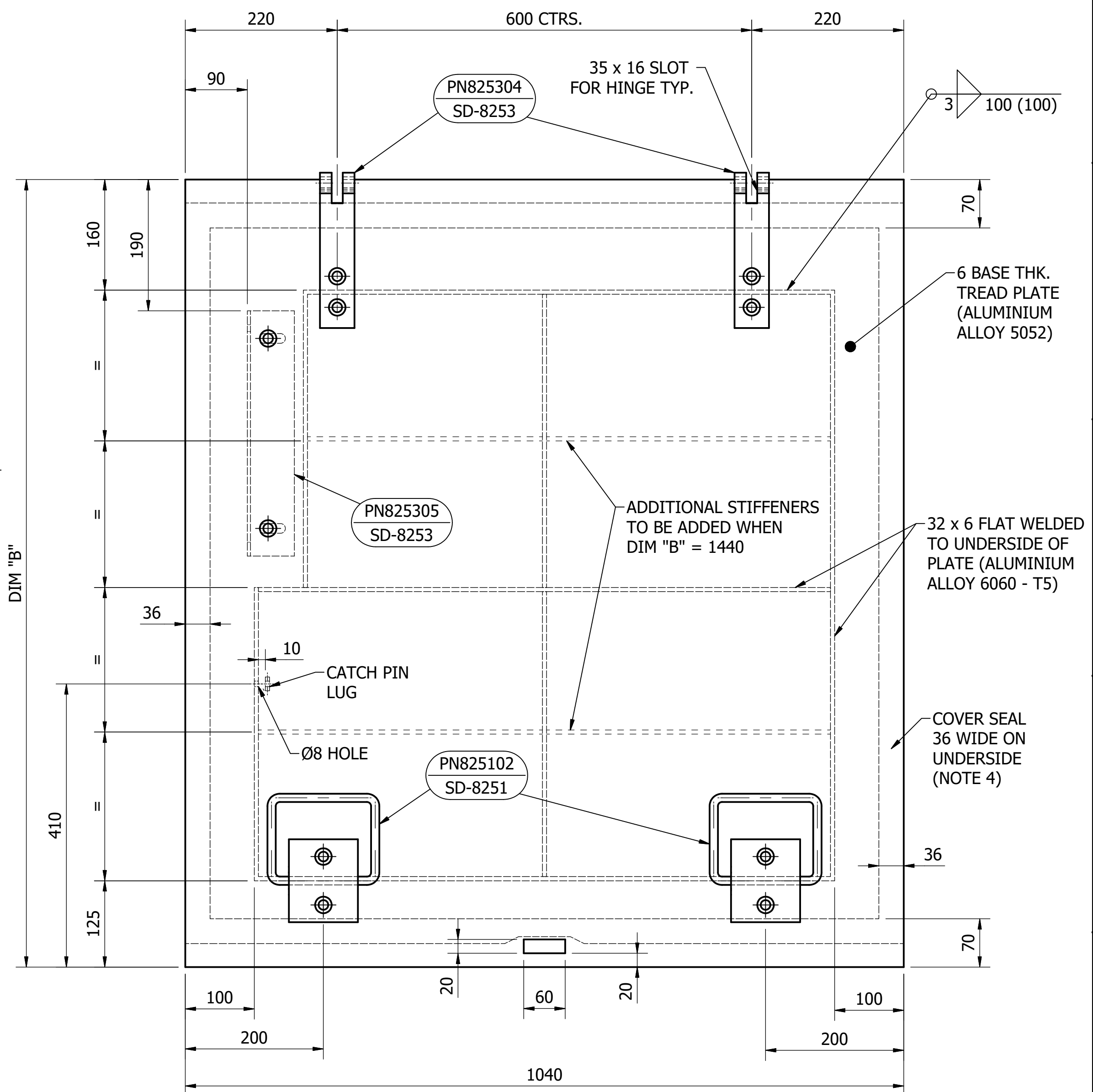
DETAIL A

SAFETY HATCH HINGE
SCALE: 1 : 2



DETAIL B

SAFETY HATCH HOOK
SCALE: 0.40 : 1



PLAN ACCESS COVER
SCALE: 1 : 5

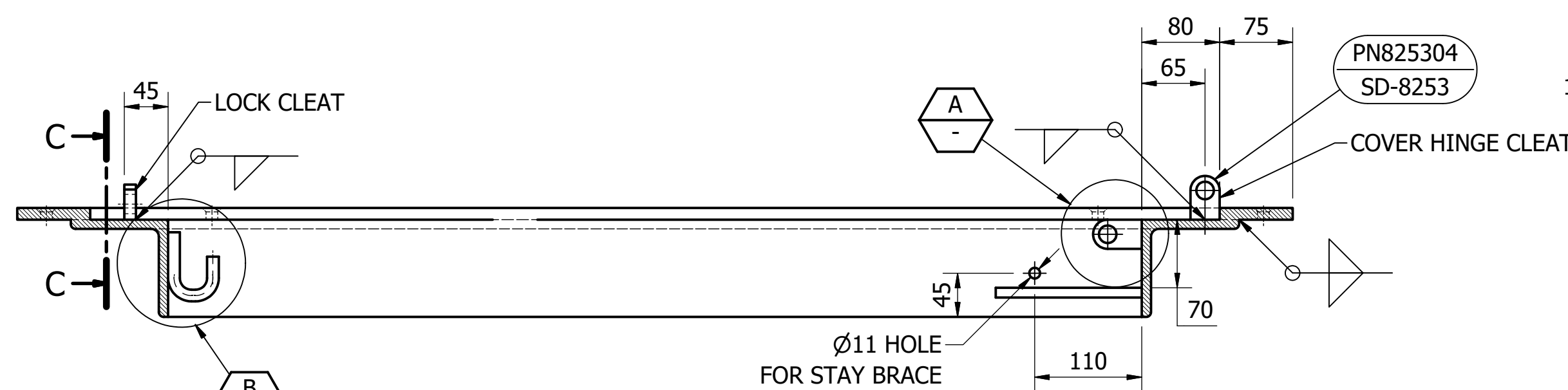
MATERIAL: ALUMINIUM
COATING: N/A
FINISH COLOUR: N/A
MASS: 30 kg (35 kg)

ITEM	AMDT.
PN821202	

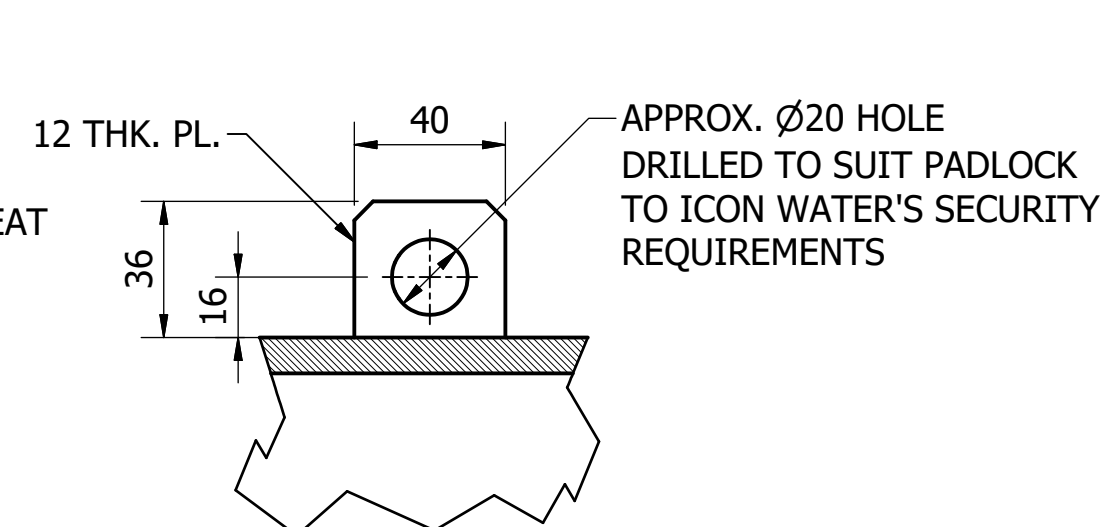
NOTES:

- FOR ALUMINIUM FABRICATION NOTES REFER TO DRAWING SD-9103.
- TREAD TEXTURE TO BE GROUND FLAT UNDER HINGES AND HANDLES. STAINLESS STEEL AND ALUMINIUM TO BE INSULATED WITH "DENSO" PRIMER D AND DENSOPOL 60 TAPE OR APPROVED EQUIVALENT.
- ALL STAINLESS STEEL FIXTURES INTO ALUMINIUM TO BE SEPARATED WITH INSULATING BUSHES AND RETAINING RINGS OR WASHERS.
- WIPE HATCH COVER WITH A CLEAN, LINT-FREE, DRY CLOTH TO ENSURE ABSENCE OF GREASE, DIRT OR MOISTURE PRIOR TO APPLICATION OF TAPE. REFER TO DRAWING SD-8214 WHICH DETAILS TAPE TYPE AND ADDITIONAL INSTALLATION REQUIREMENTS.
- MASS SHOWN IN BRACKETS () REFERS TO THE LARGER INCLINED RUNG LADDER HATCH.
- REFER TO DRAWING SD-8214-C FOR HATCH CONNECTION TO CONCRETE DETAILS.

DIMENSION	DIMENSION VARIABLES	
	VERTICAL RUNG LADDER	INCLINED RUNG LADDER
A	1000	1300
B	1140	1440



SECTION A-A
SCALE: 1 : 5



SECTION C-C LOCK CLEAT
SCALE: 1 : 2

ITEM	AMDT.
PN821201	

No.	ISSUE	DATE	DRAWN	CHECKED	AUTHORISED
A	INITIAL ISSUE	15/06/2018	M. Matusiak	K. Danenbergson	D. Eager

ICON WATER ACKNOWLEDGES SYDNEY WATER CORPORATION IN THE DEVELOPMENT OF THIS DRAWING

DAM	RES	SPS
BWS	WAT	STP
WTP	SEW	
WPS	REC	



STANDARD DRAWING
GAS-TIGHT ACCESS COVERS ALUMINIUM, HINGED
ASSEMBLY AND DETAILS

DRAWING STATUS
Current

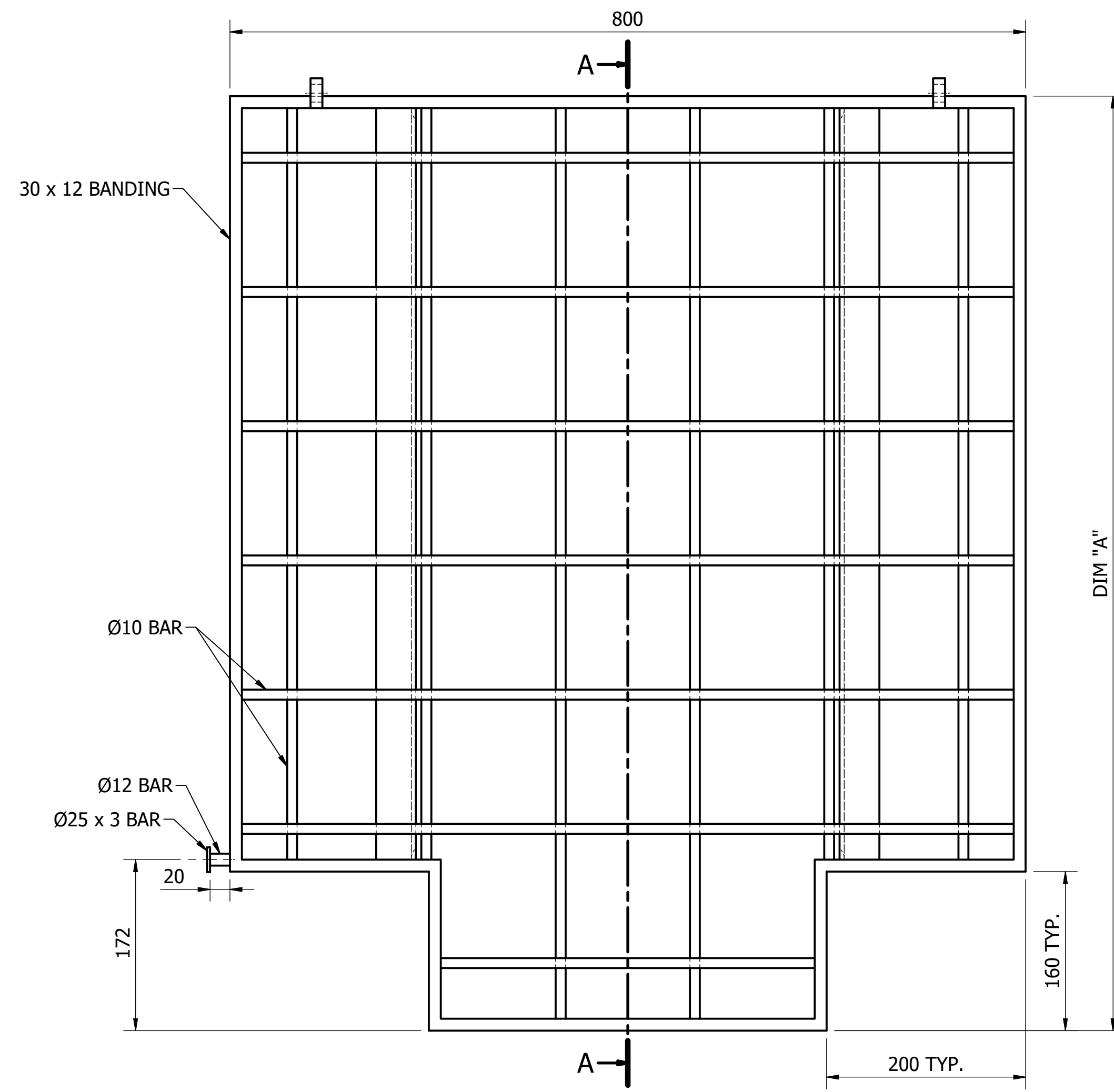
SD-8212-D

ISSUE	DATE
A1	15/06/2018

© Icon Water 2017

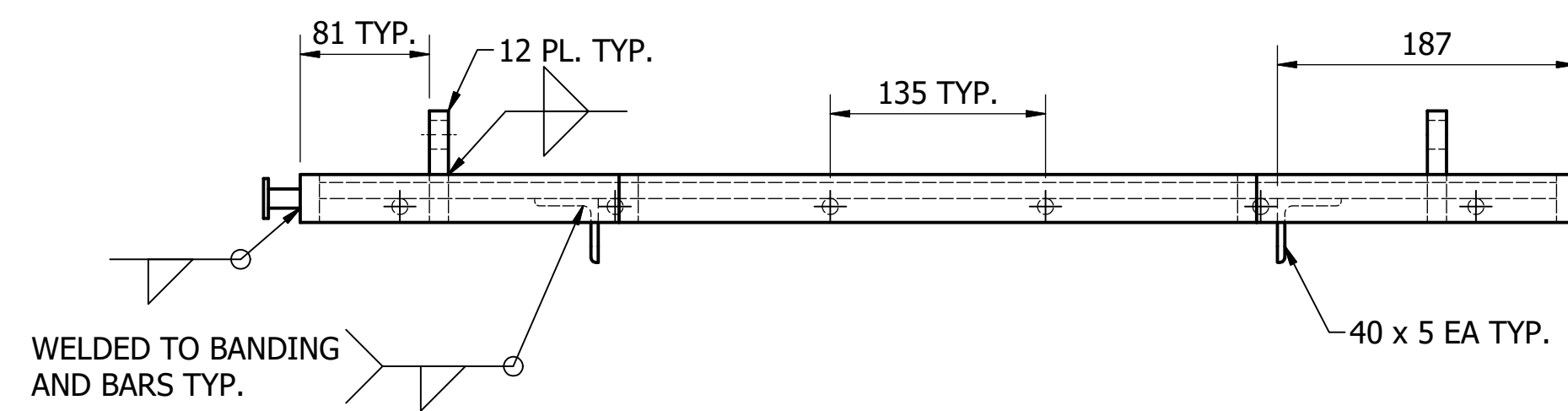
NOTES:

1. FOR ALUMINIUM FABRICATION NOTES REFER TO DRAWING SD-9103.

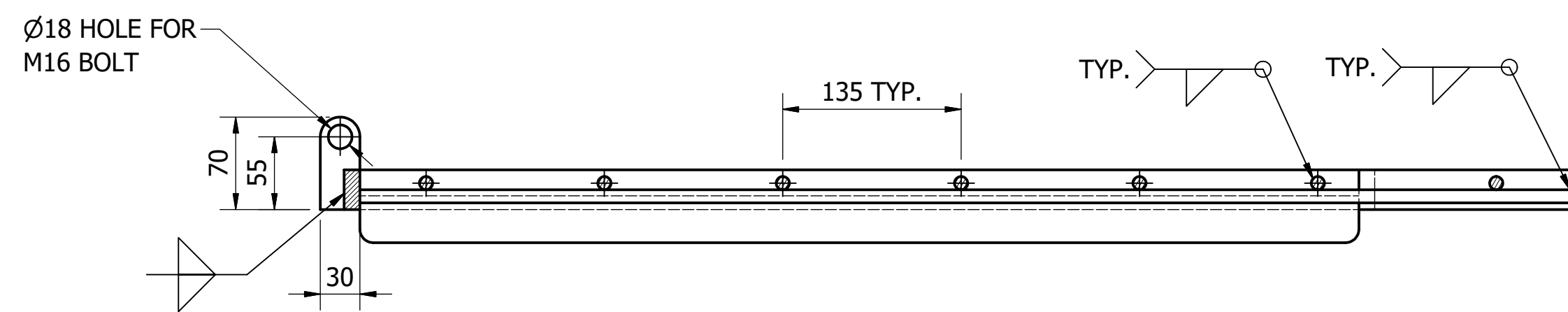


DIMENSION VARIABLES		
DIMENSION	VERTICAL RUNG LADDER	INCLINED RUNG LADDER
A	940	1240

PLAN VIEW



FRONT VIEW



SECTION A-A

SAFETY GRATE
SCALE: 1 : 4

ITEM	AMDT.
PN821301	

No.	ISSUE	DATE	DRAWN	CHECKED	AUTHORISED
A	INITIAL ISSUE	15/06/2018	S. Essery	K. Danenbergsons	D. Eager
B	DRAWING NOW - D	19/06/2019	S. Essery	K. Danenbergsons	C. Patrick

ICON WATER ACKNOWLEDGES SYDNEY WATER CORPORATION IN THE DEVELOPMENT OF THIS DRAWING

DAM	RES	SPS
BWS	WAT	STP
WTP	SEW	
WPS	REC	



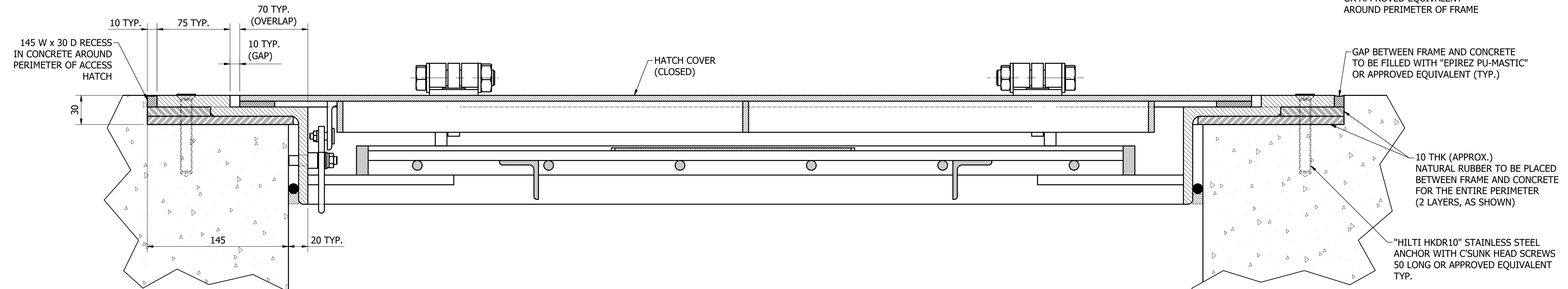
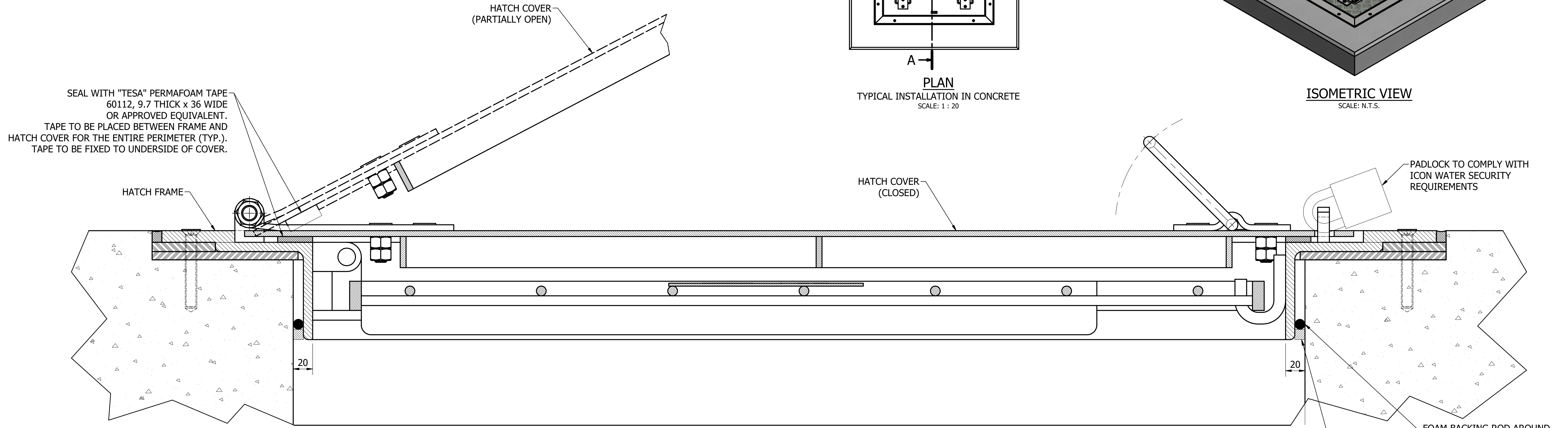
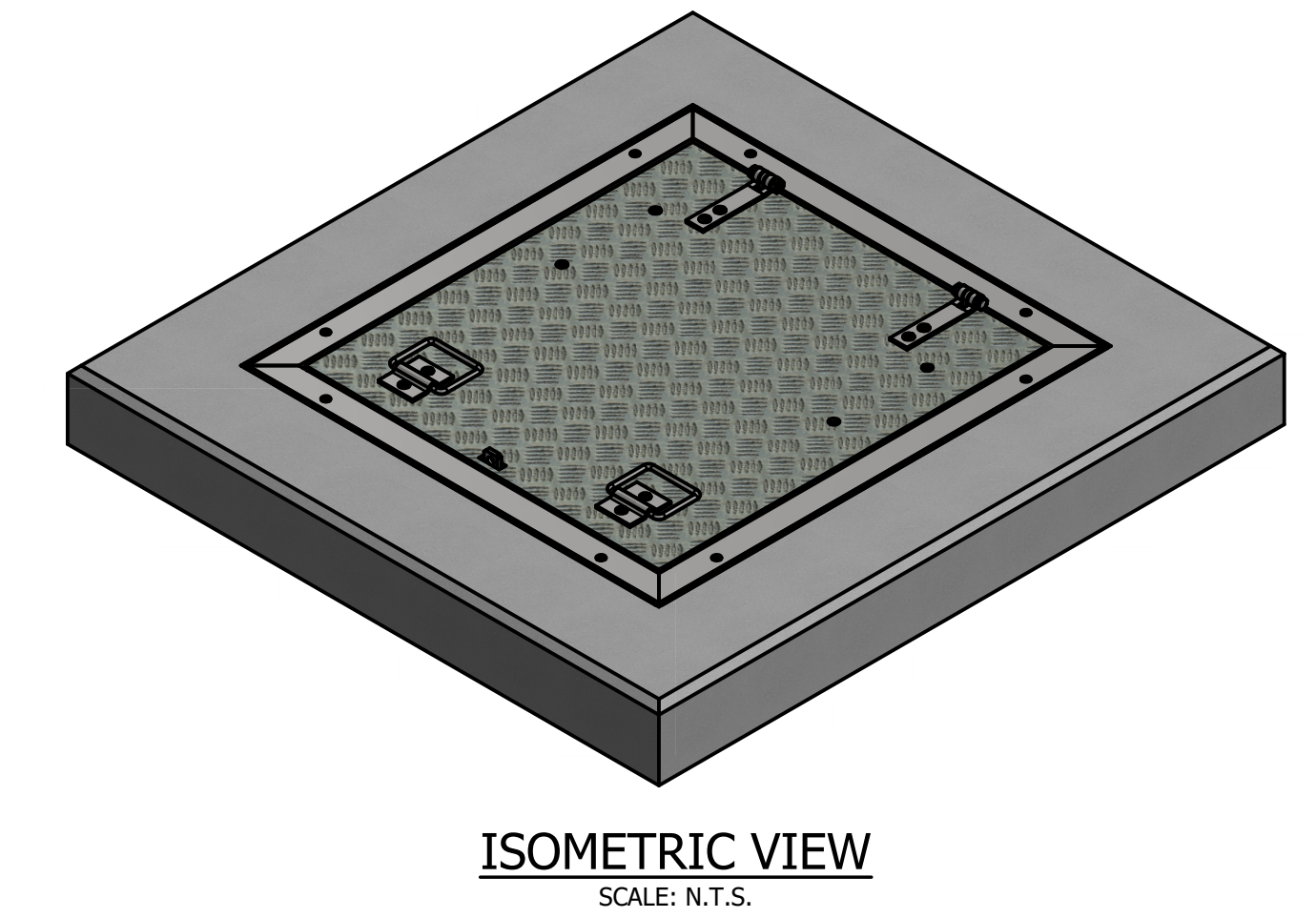
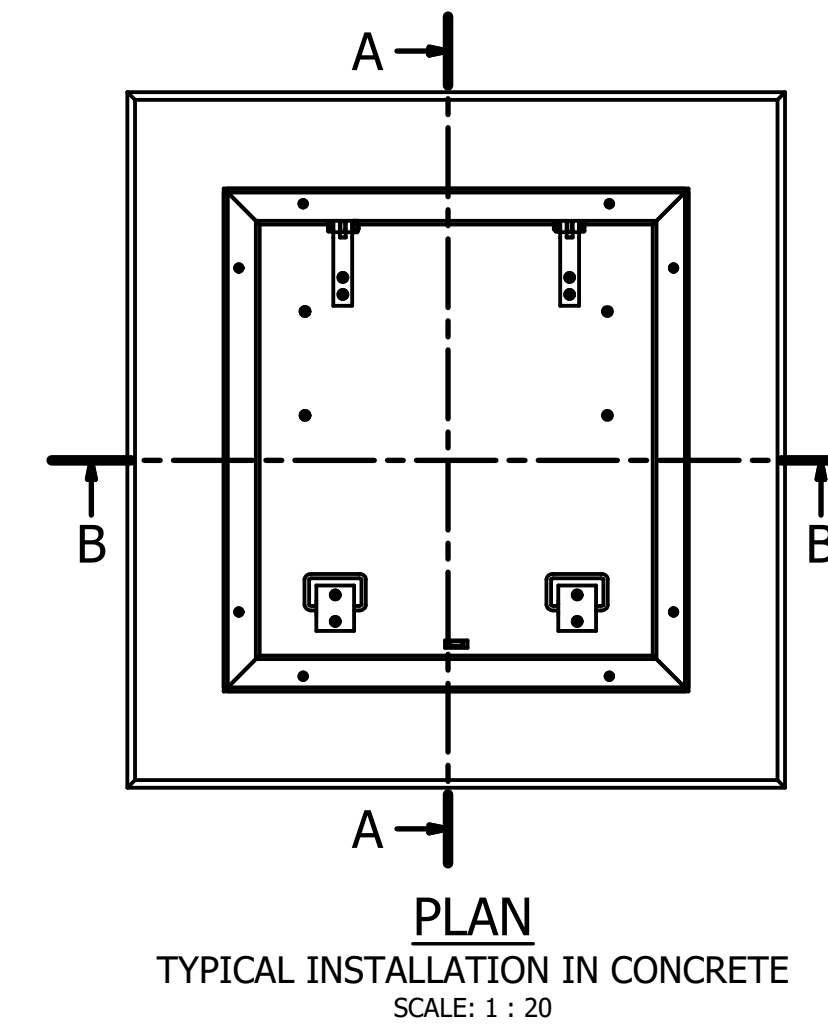
STANDARD DRAWING
GAS-TIGHT ACCESS COVERS ALUMINIUM, HINGED
GRATE INSERT DETAILS

DRAWING STATUS	
Current	
SD-8213-D	
A1	ISSUE B

© Icon Water 2017

NOTES:

1. FOR ALUMINIUM FABRICATION NOTES REFER TO DRAWING SD-9103.



No.	ISSUE	DATE	DRAWN	CHECKED	AUTHORISED
A	INITIAL ISSUE	15/06/2018	M. Matusiak	K. Danenbergsons	D. Eager
B	DRAWING NOW - D	19/06/2019	S. Essery	K. Danenbergsons	C. Patrick

ICON WATER ACKNOWLEDGES SYDNEY WATER CORPORATION IN THE DEVELOPMENT OF THIS DRAWING

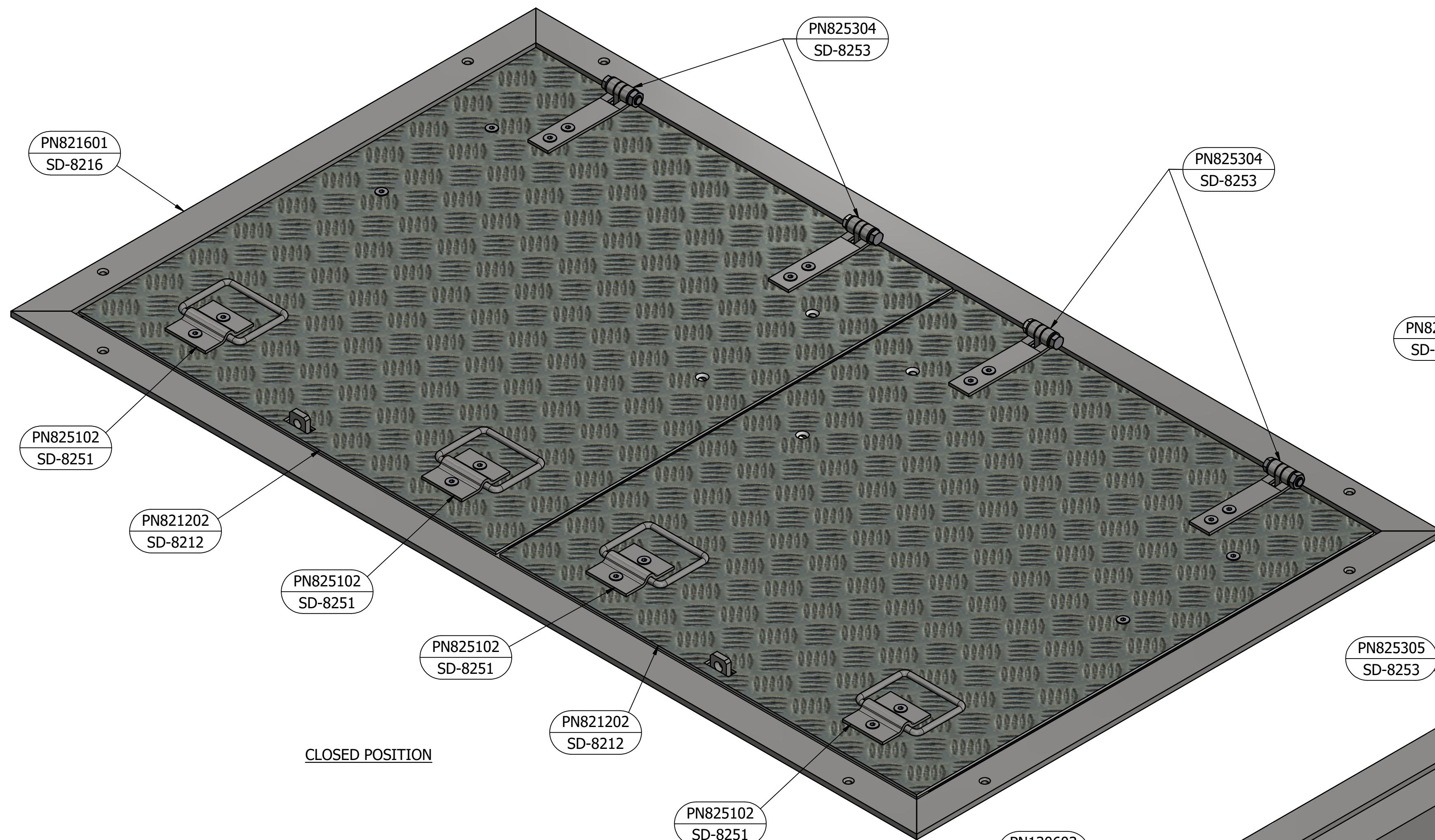
ASSET AREA APPLICABILITY			
DAM	RES	SPS	X
BWS	WAT	STP	X
WTP	SEW		X
WPS	REC		



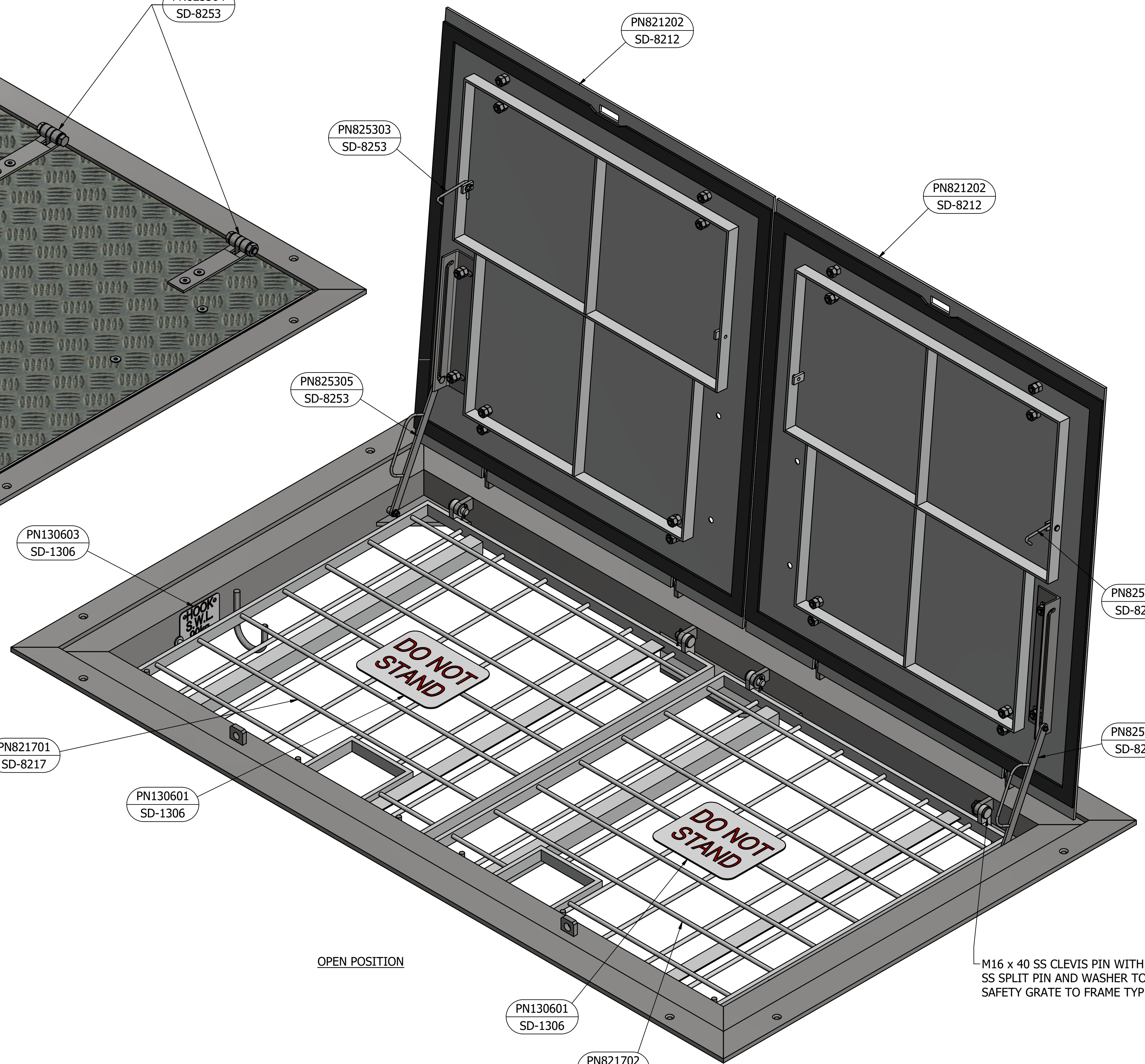
STANDARD DRAWING
GAS-TIGHT ACCESS COVERS ALUMINIUM, HINGED
TYPICAL INSTALLATION

DRAWING STATUS	
Current	
SD-8214-D	
A1	ISSUE B

© Icon Water 2017



CLOSED POSITION



OPEN POSITION

M16 x 40 SS CLEVIS PIN WITH SS SPLIT PIN AND WASHER TO FIX SAFETY GRATE TO FRAME TYP.

PARTS LIST				
PART NUMBER	DESCRIPTION	QTY	MASS	REFERENCE
PN821601	HATCH FRAME	1	150 kg	SD-8216
PN821202	MAIN HATCH COVER	2	25 kg	SD-8212
PN825303	SAFETY GRATE CATCH PIN	2	0.25 kg	SD-8253
PN821701	SAFETY GRATE (LEFT HAND SIDE)	1	10 kg	SD-8217
PN821702	SAFETY GRATE (RIGHT HAND SIDE)	1	10 kg	SD-8217
PN825304	HINGE	4	1 kg	SD-8253
PN825102	LIFTING HANDLE	4	1 kg	SD-8251
PN825305	HATCH STAY	2	2 kg	SD-8253
PN130601	SAFETY SIGN (DO NOT STAND)	2	1.5 kg	SD-1306
PN130603	SAFETY SIGN (HOOK SWL) SMALL	1 PER HOOK	0.2 kg	SD-1306

- NOTES:**
1. THIS HATCH DESIGN IS ONLY APPLICABLE TO SEWAGE PUMPING STATION WET WELL ACCESS. REFER "SD-4100" SERIES OF DRAWINGS FOR ADDITIONAL DETAILS.
 2. FOR ALUMINIUM FABRICATION NOTES REFER TO DRAWING SD-9103.
 3. FOR STEEL FABRICATION NOTES REFER TO DRAWING SD-9100

ITEM	AMDT.
PN821501	

No.	ISSUE	DATE	DRAWN	CHECKED	AUTHORISED
A	INITIAL ISSUE	8/06/2018	M. Matusiak	K. Danenbergsons	C. Patrick

ICON WATER ACKNOWLEDGES SYDNEY WATER CORPORATION IN THE DEVELOPMENT OF PARTS OF THIS DRAWING

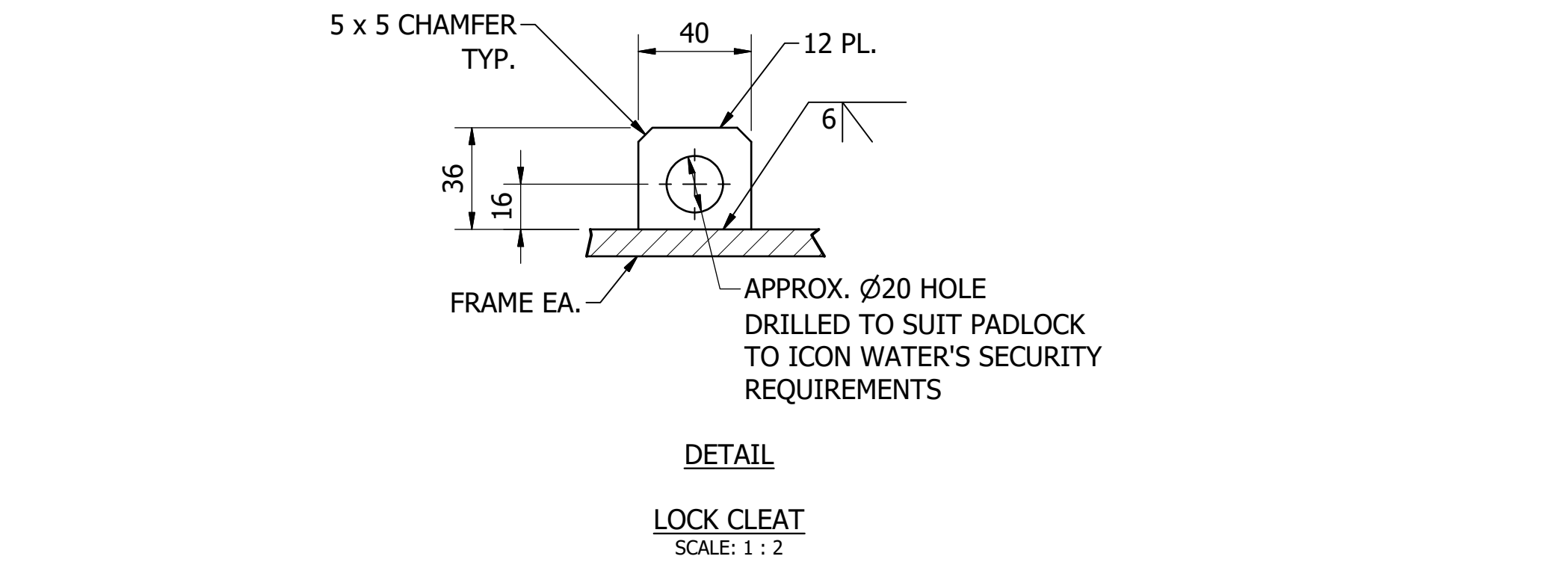
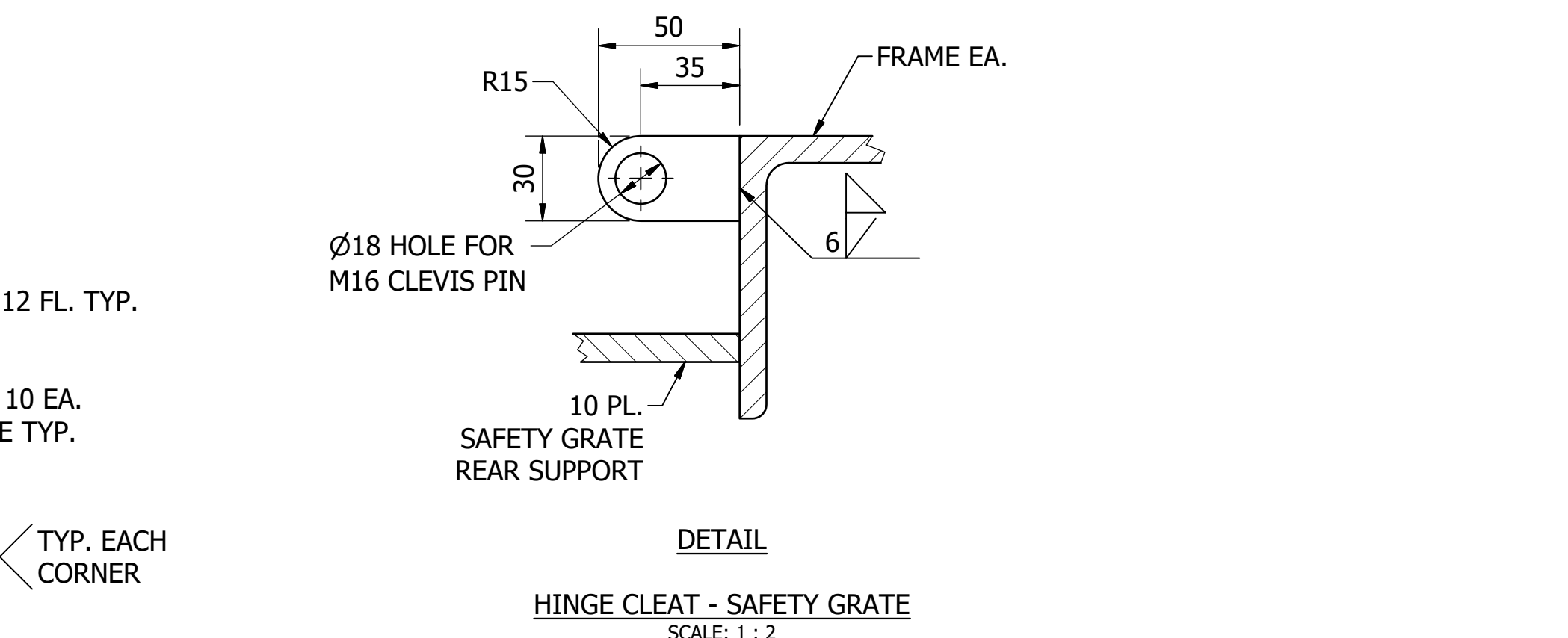
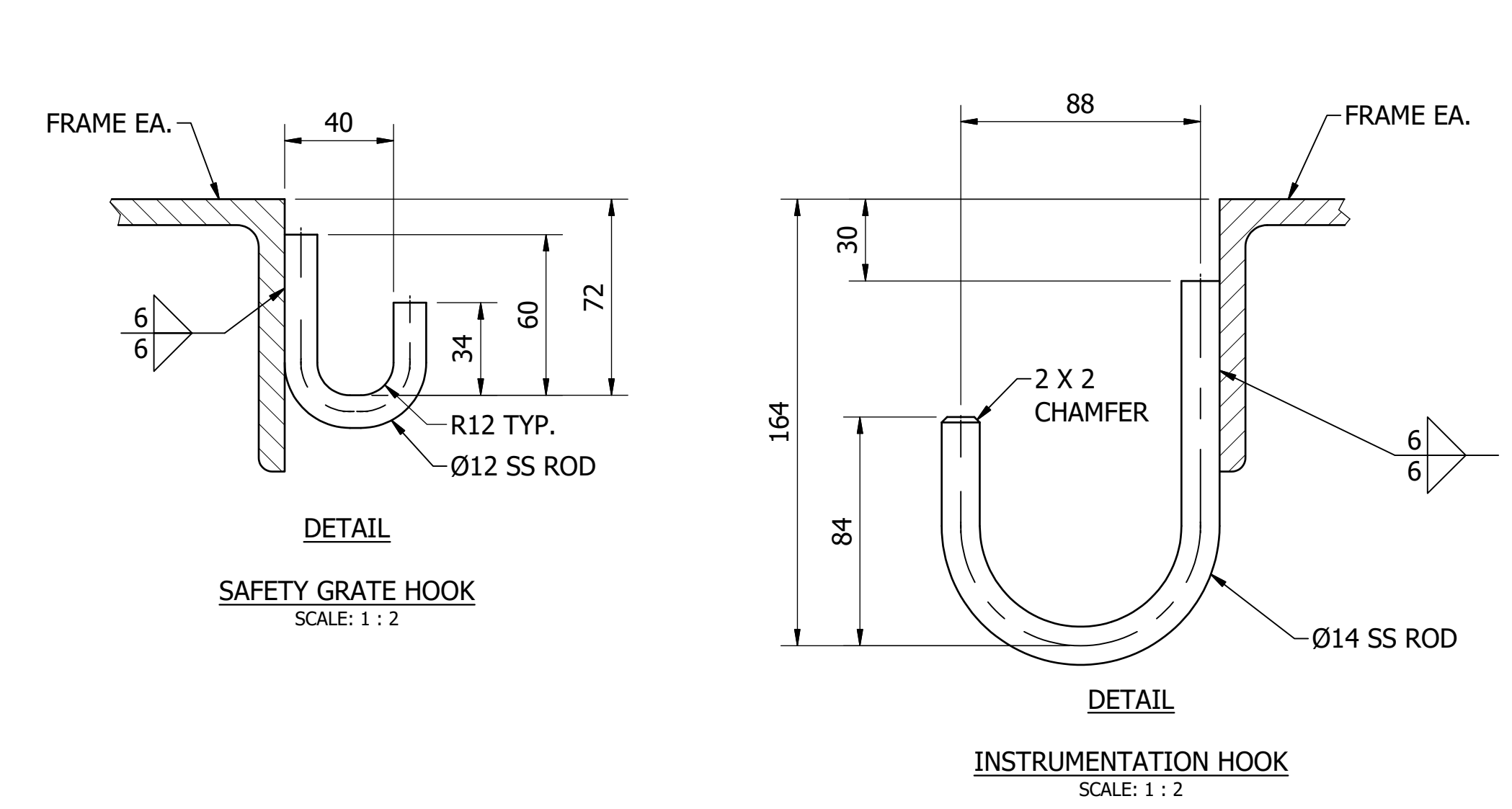
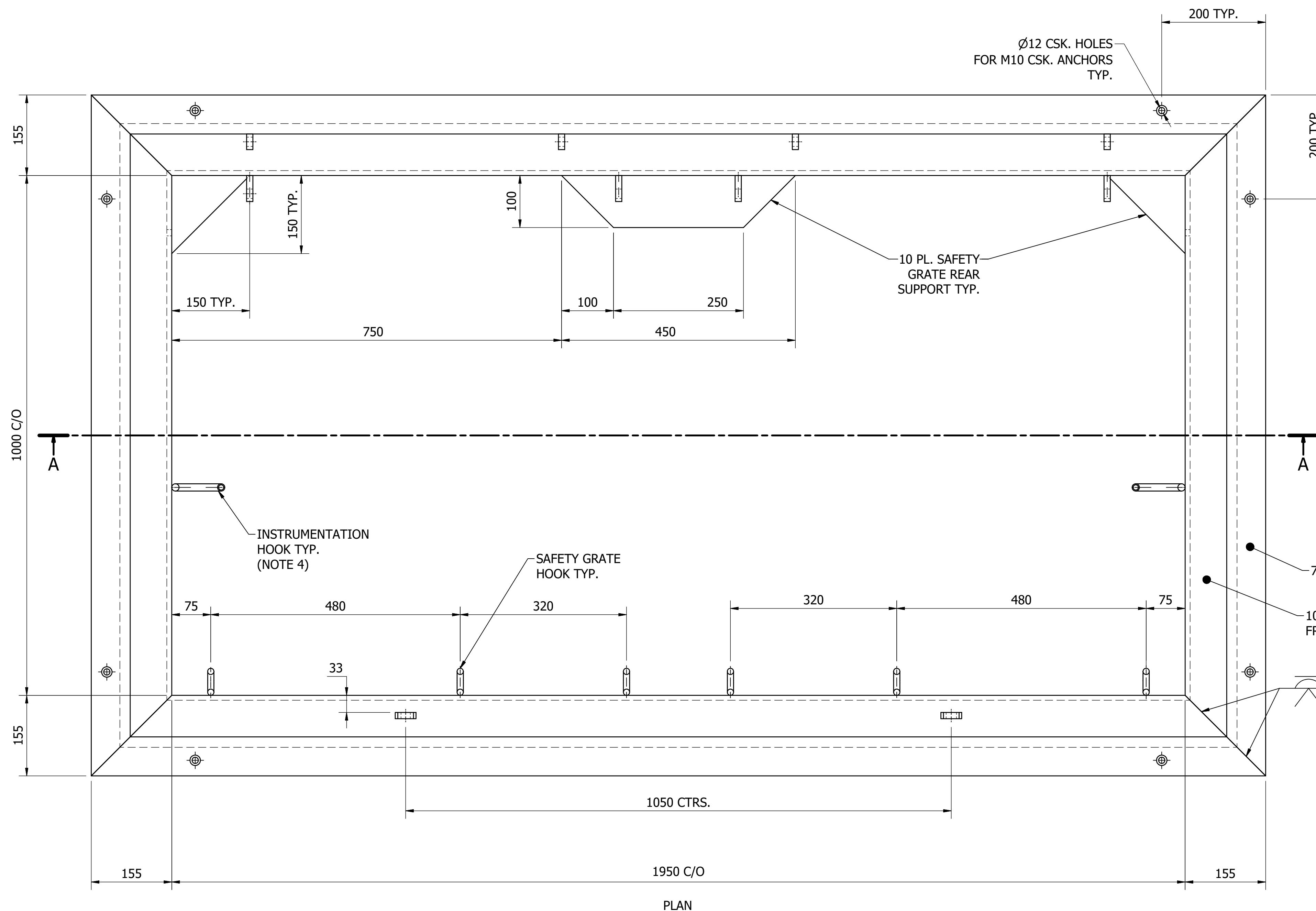
DAM	RES	SPS	<input checked="" type="checkbox"/>
BWS	WAT	STP	
WTP	SEW		
WPS	REC		



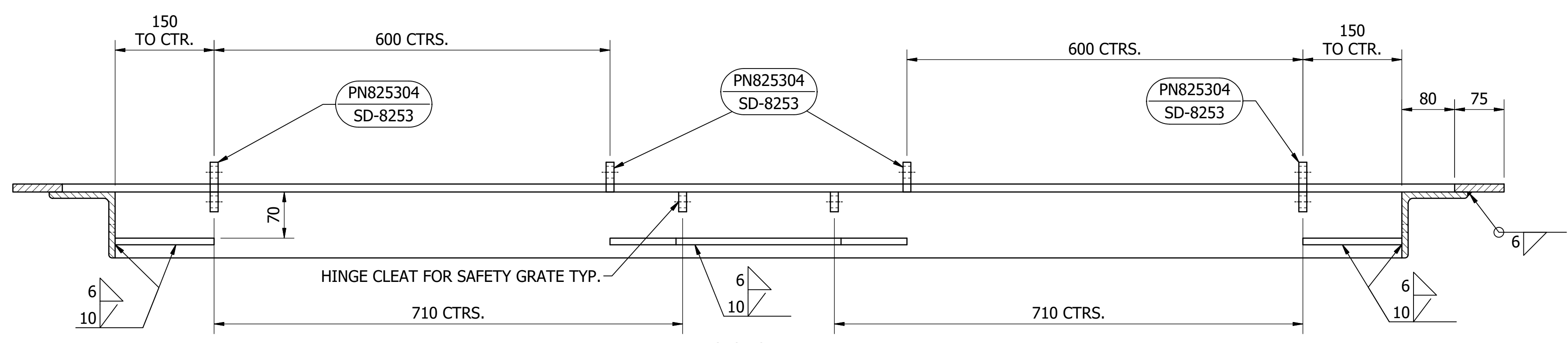
STANDARD DRAWING
ACCESS COVERS
ALUMINIUM, HINGED
SEWAGE PUMPING STATIONS, WET WELL ACCESS
ARRANGEMENT

DRAWING STATUS	
Current	
SD-8215-D	
A1	ISSUE A

© Icon Water 2017



- NOTES:**
1. THIS HATCH DESIGN IS ONLY APPLICABLE TO SEWAGE PUMPING STATION WET WELL ACCESS. REFER "SD-4100" SERIES OF DRAWINGS FOR ADDITIONAL DETAILS.
 2. FOR STEEL FABRICATION NOTES REFER TO DRAWING SD-9103.
 3. REFER TO DRAWING SD-8214-C FOR HATCH CONNECTION TO CONCRETE DETAILS.
 4. INSTRUMENTATION HOOK LOCATIONS ARE INDICATIVE. NUMBER OF HOOKS AND FINAL LOCATIONS TO BE DETERMINED FOR SPECIFIC SITE/PROJECT REQUIREMENTS.



MATERIAL: STAINLESS STEEL
 COATING: N/A
 FINISH COLOUR: N/A
 MASS: 150 kg

ITEM	AMDT.
PN821601	

No.	ISSUE	DATE	DRAWN	CHECKED	AUTHORISED
A	INITIAL ISSUE	8/06/2018	M. Matusiak	K. Danenbergson	C. Patrick

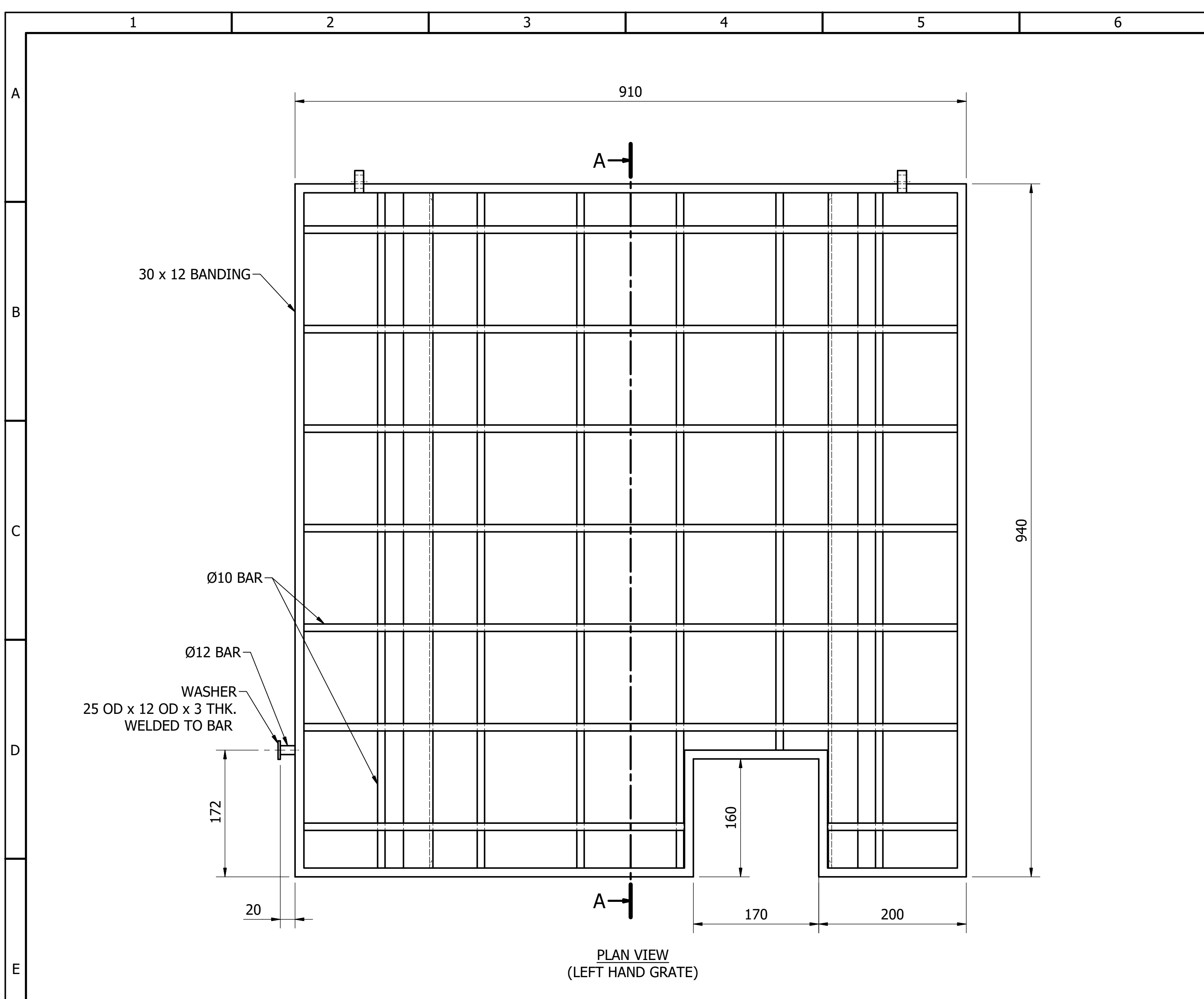
DAM	RES	SPS	X
BWS	WAT	STP	
WTP	SEW		
WPS	REC		

ASSET AREA APPLICABILITY



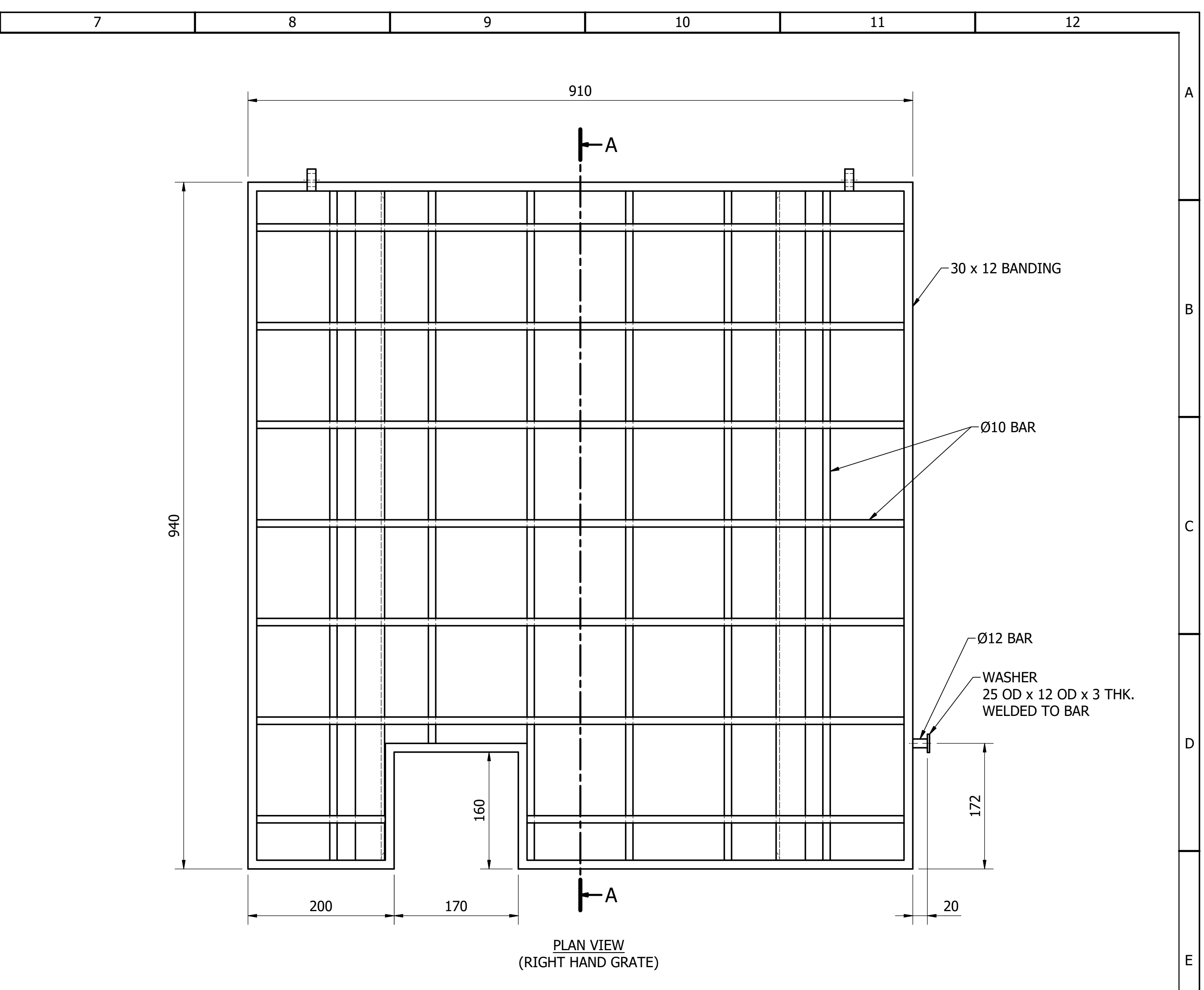
STANDARD DRAWING
 ACCESS COVERS
 ALUMINIUM, HINGED
 SEWAGE PUMPING STATIONS, WET WELL ACCESS
 FRAME DETAILS

DRAWING STATUS	Current
SD-8216-D	ISSUE A
A1	© Icon Water 2017



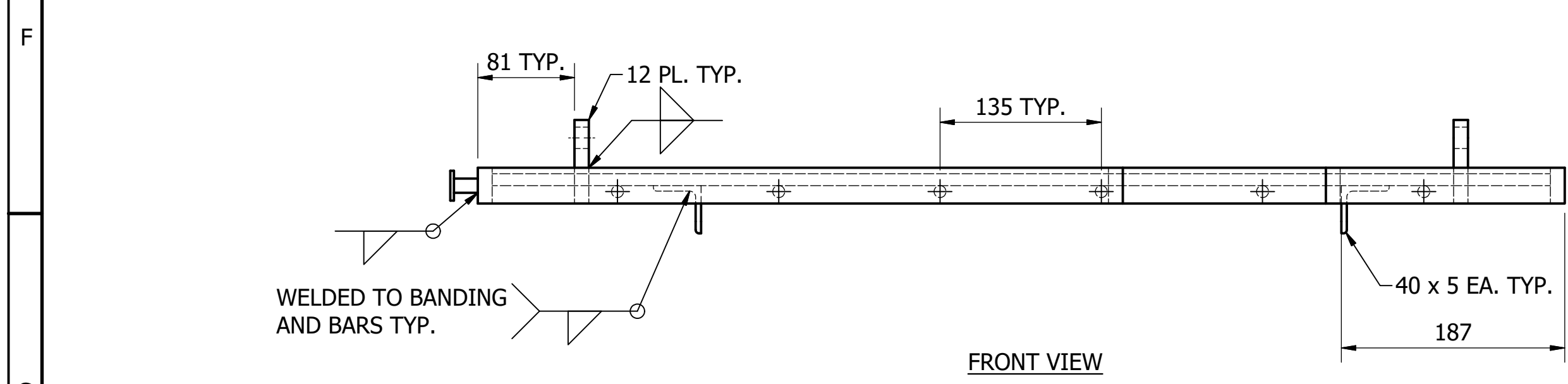
PLAN VIEW
(LEFT HAND GRATE)

ITEM	AMDT.
PN821701	

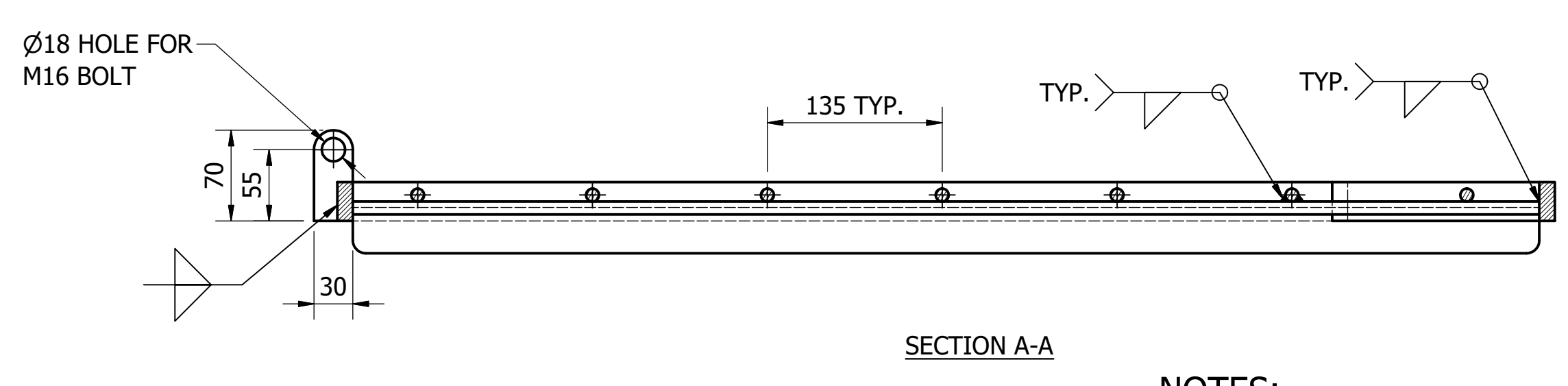


PLAN VIEW
(RIGHT HAND GRATE)

ITEM	AMDT.
PN821702	



FRONT VIEW



SECTION A-A

SAFETY GRATE
SCALE: 1 : 4
MATERIAL: ALUMINIUM
COATING: N/A
FINISH COLOUR: N/A
MASS: 10 kg

- NOTES:**
1. THIS HATCH DESIGN IS ONLY APPLICABLE TO SEWAGE PUMPING STATION WET WELL ACCESS. REFER "SD-4100" SERIES OF DRAWINGS.
 2. FOR ALUMINIUM FABRICATION NOTES REFER TO DRAWING SD-9103.
 3. ALL STAINLESS STEEL AND ALUMINIUM INTERFACES TO BE SEPARATED WITH INSULATING BUSHES AND RETAINING RINGS OR WASHERS.

No.	ISSUE	DATE	DRAWN	CHECKED	AUTHORISED
A	INITIAL ISSUE	8/06/2018	M. Matusiak	K. Danenbergson	C. Patrick

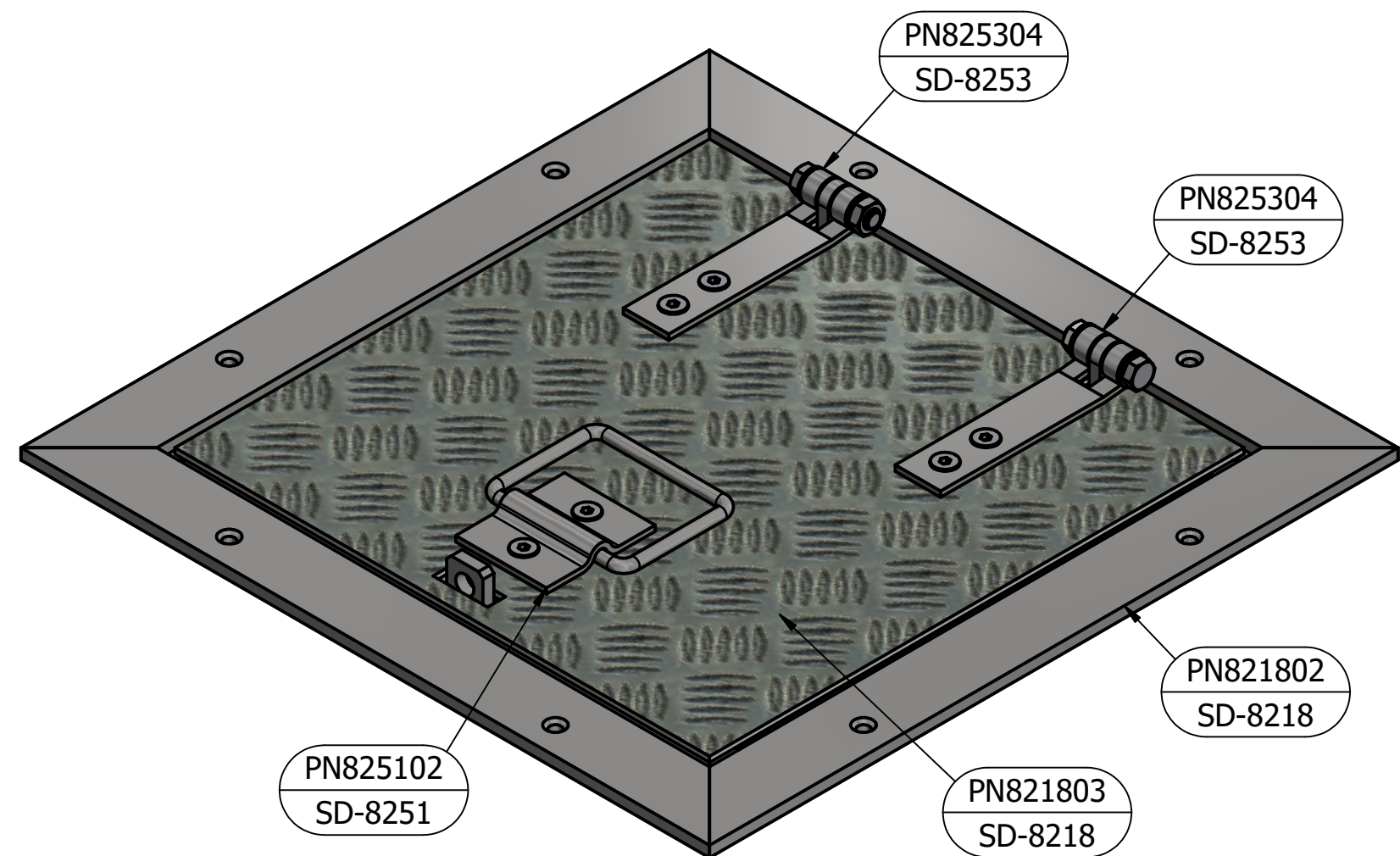
DAM	RES	SPS
BWS	WAT	STP
WTP	SEW	
WPS	REC	



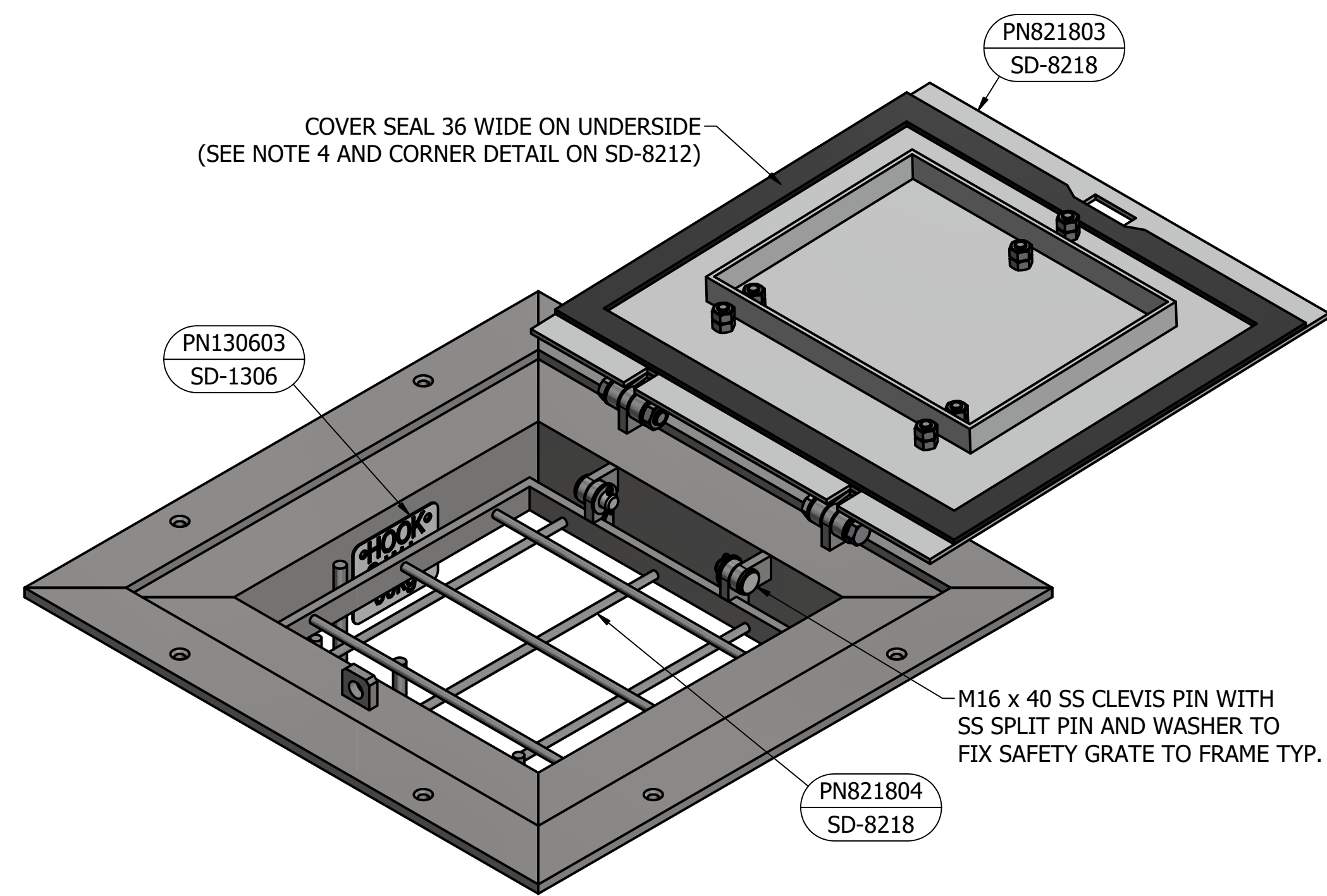
STANDARD DRAWING
ACCESS COVERS
ALUMINIUM, HINGED
SEWAGE PUMPING STATIONS, WET WELL ACCESS
SAFETY GRATE DETAILS

DRAWING STATUS	
Current	
SD-8217-D	
A1	ISSUE A

© Icon Water 2017



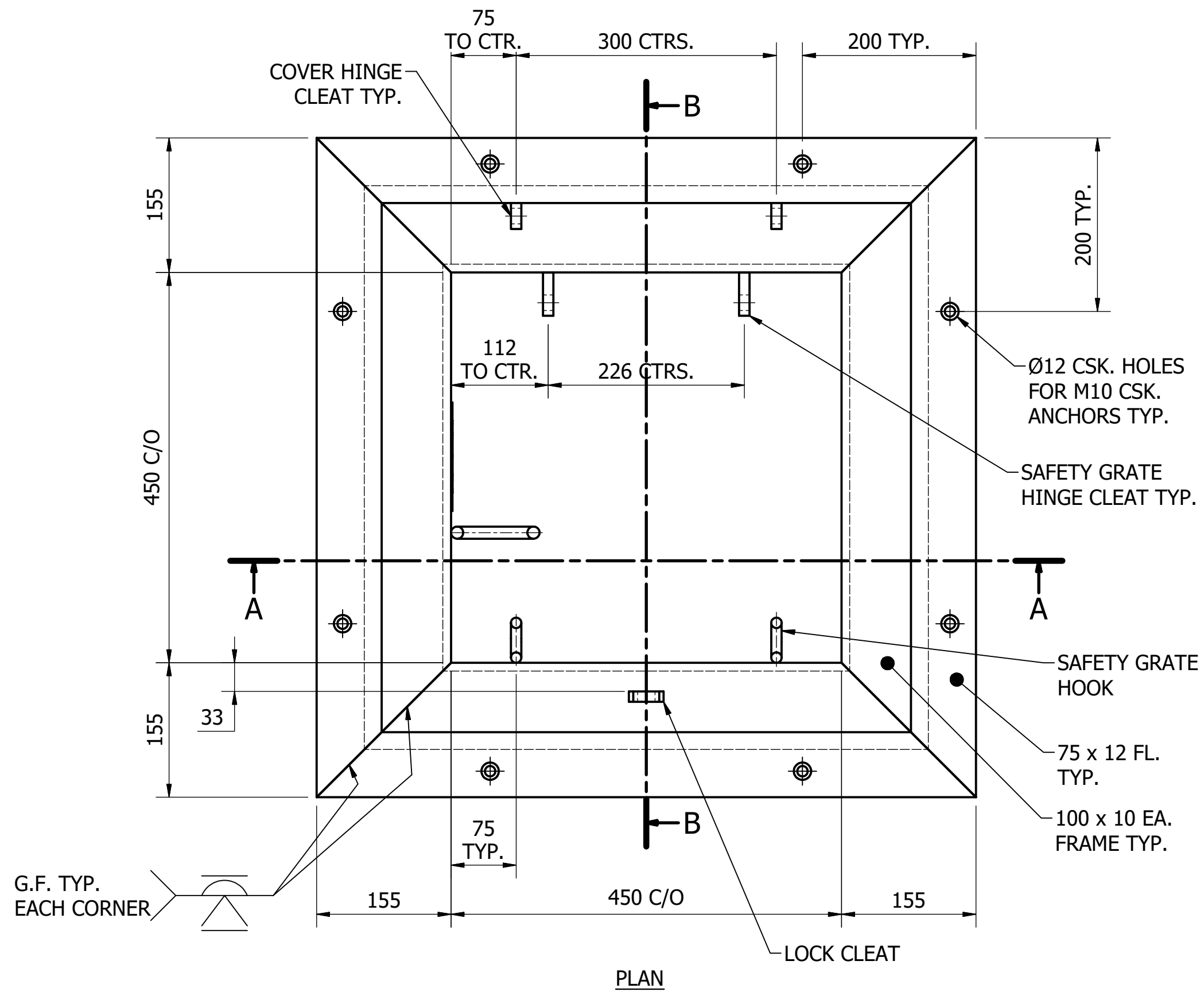
CLOSED POSITION



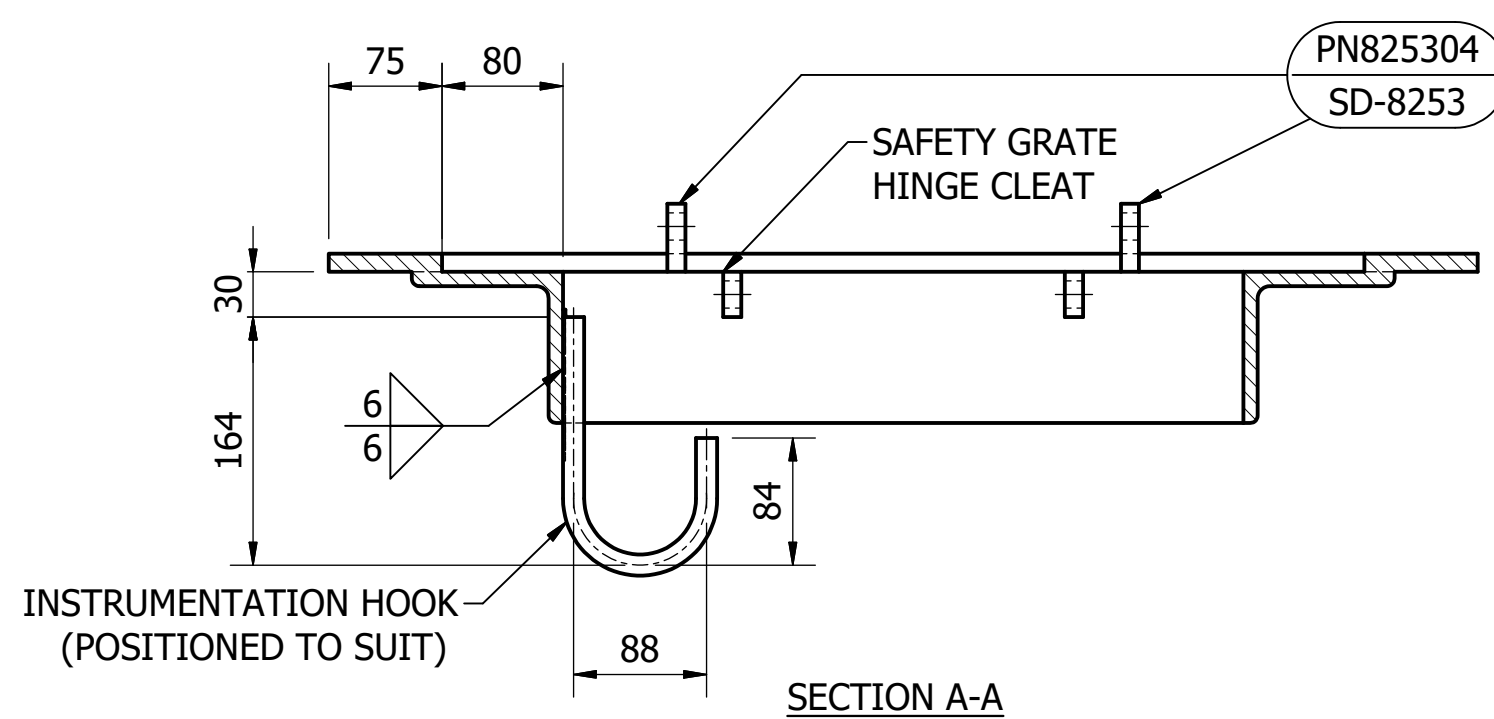
OPEN POSITION
(SAFETY GRATE CLOSED)

PARTS LIST				
PART NUMBER	DESCRIPTION	QTY	MASS	REFERENCE
PN821802	HATCH FRAME	1	55 kg	SD-8218
PN825304	HINGE	2	1 kg	SD-8253
PN821803	HATCH COVER	1	7 kg	SD-8218
PN825102	LIFTING HANDLE	1	1 kg	SD-8251
PN821804	SAFETY GRATE	1	10 kg	SD-8218
PN130603	SAFETY SIGN (HOOK S.W.L.) SMALL	1	0.2 kg	SD-1306

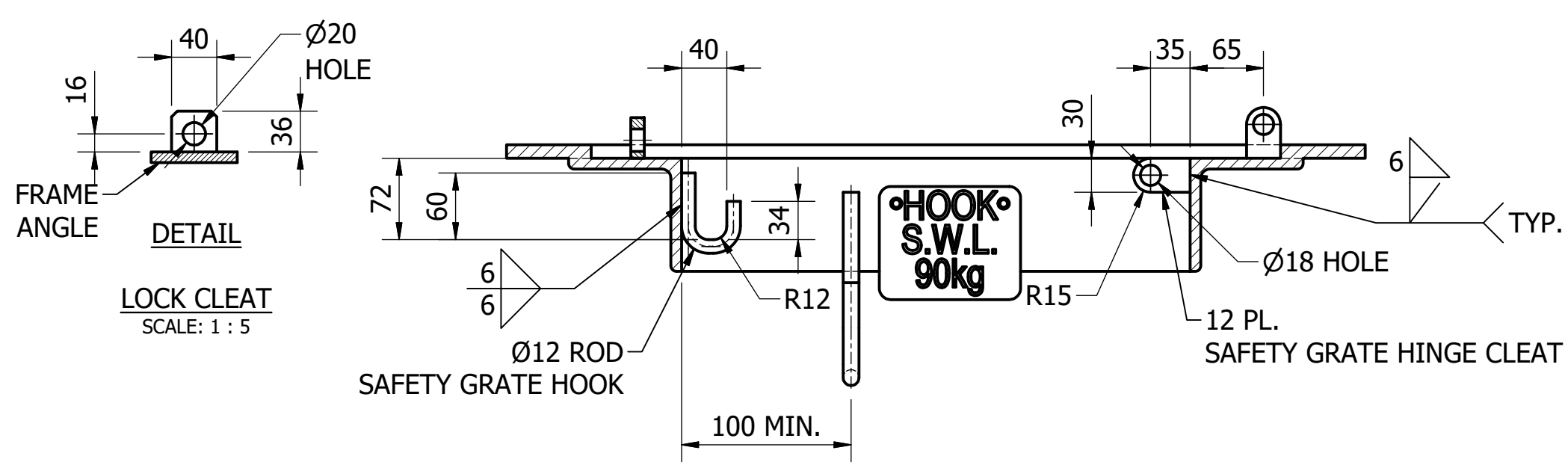
ITEM	AMDT.
PN821801	



PLAN



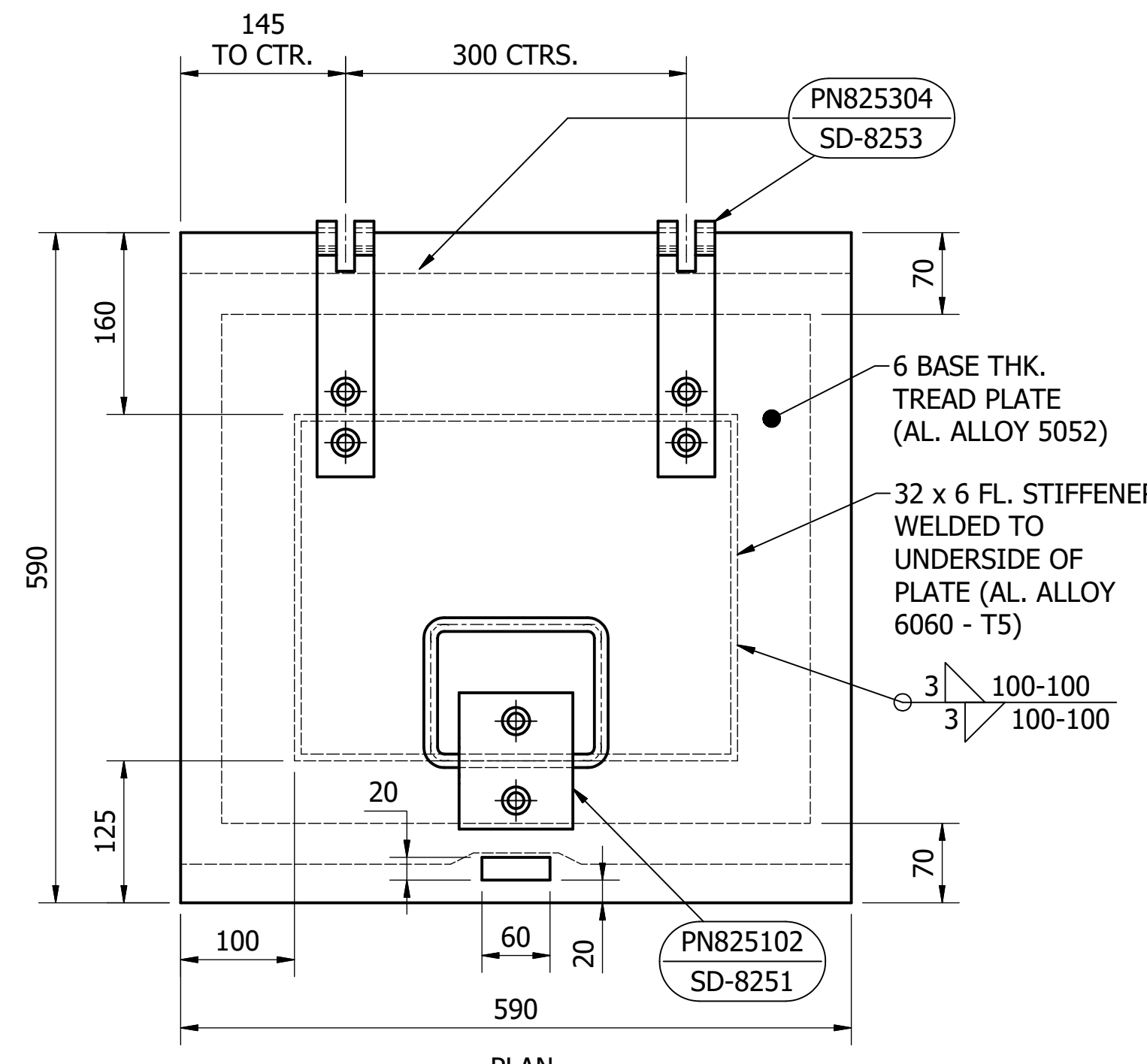
SECTION A-A



SECTION B-B

COVER FRAME
SCALE: 1 : 5
MATERIAL: STAINLESS STEEL
COATING: N/A
FINISH COLOUR: N/A
MASS: 55 kg

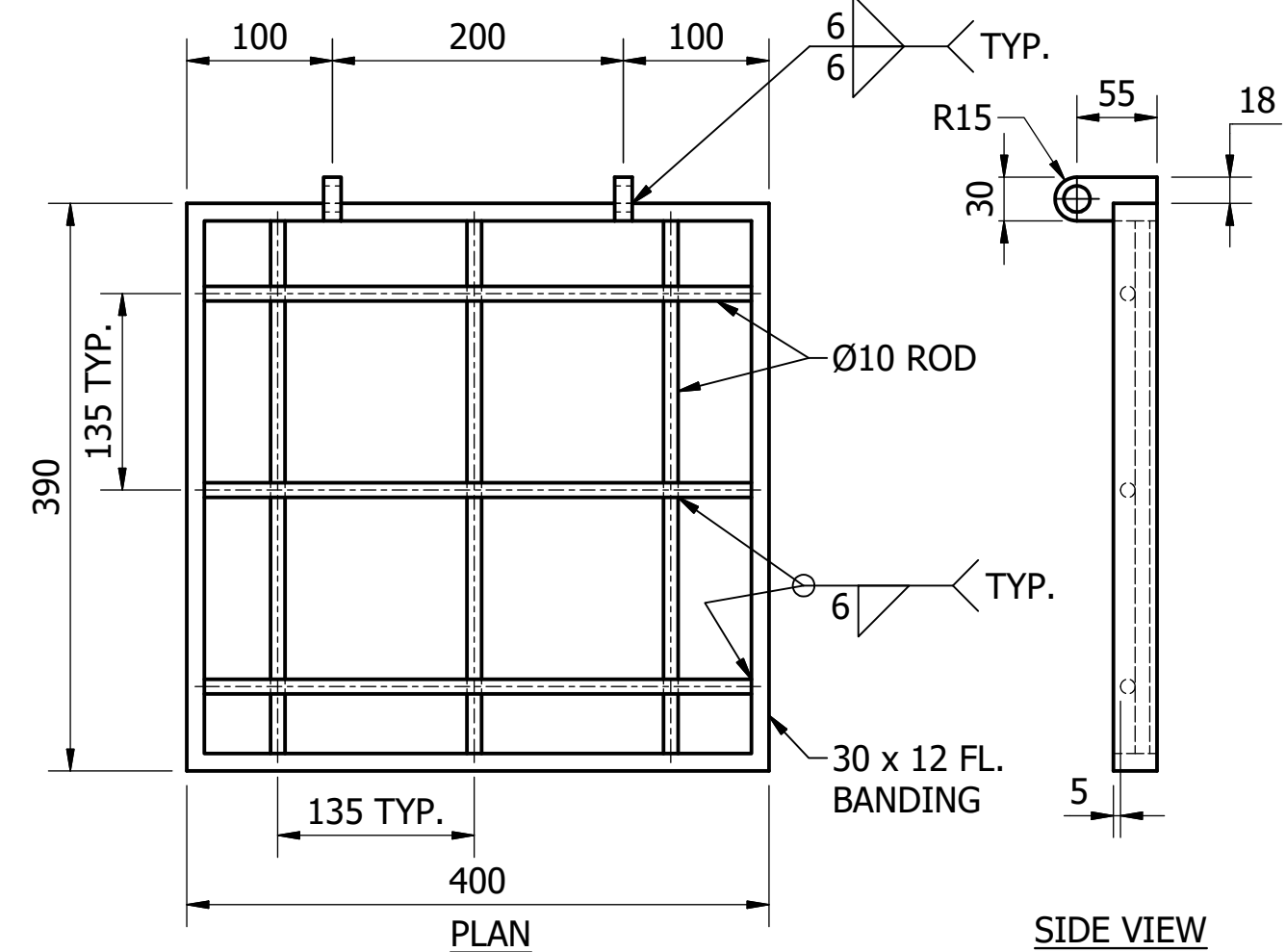
ITEM	AMDT.
PN821802	



PLAN

COVER
SCALE: 1 : 5
MATERIAL: ALUMINIUM
COATING: N/A
FINISH COLOUR: N/A
MASS: 11 kg (INCL. HANDLE AND HINGES)

ITEM	AMDT.
PN821803	



SIDE VIEW

SAFETY GRATE
SCALE: 1 : 5
MATERIAL: STAINLESS STEEL
COATING: N/A
FINISH COLOUR: N/A
MASS: 10 kg

ITEM	AMDT.
PN821804	

- NOTES:
- THIS HATCH DESIGN IS ONLY FOR INSTRUMENTATION ACCESS (NOT TO BE USED FOR PERSONNEL ACCESS).
 - NOTES ON DRAWING SD-8212 ARE ALSO APPLICABLE TO THIS DRAWING.
 - FOR STEEL FABRICATION NOTES REFER TO DRAWING SD-9103. AND FOR ALUMINIUM FABRICATION NOTES REFER TO DRAWING SD-9103.
 - REFER TO DRAWING SD-8214-C FOR HATCH CONNECTION TO CONCRETE DETAILS.

DAM	RES	SPS	WTP	WPS



STANDARD DRAWING
GAS-TIGHT ACCESS COVERS
ALUMINIUM, HINGED
INSTRUMENTATION HATCH
ARRANGEMENT AND DETAILS

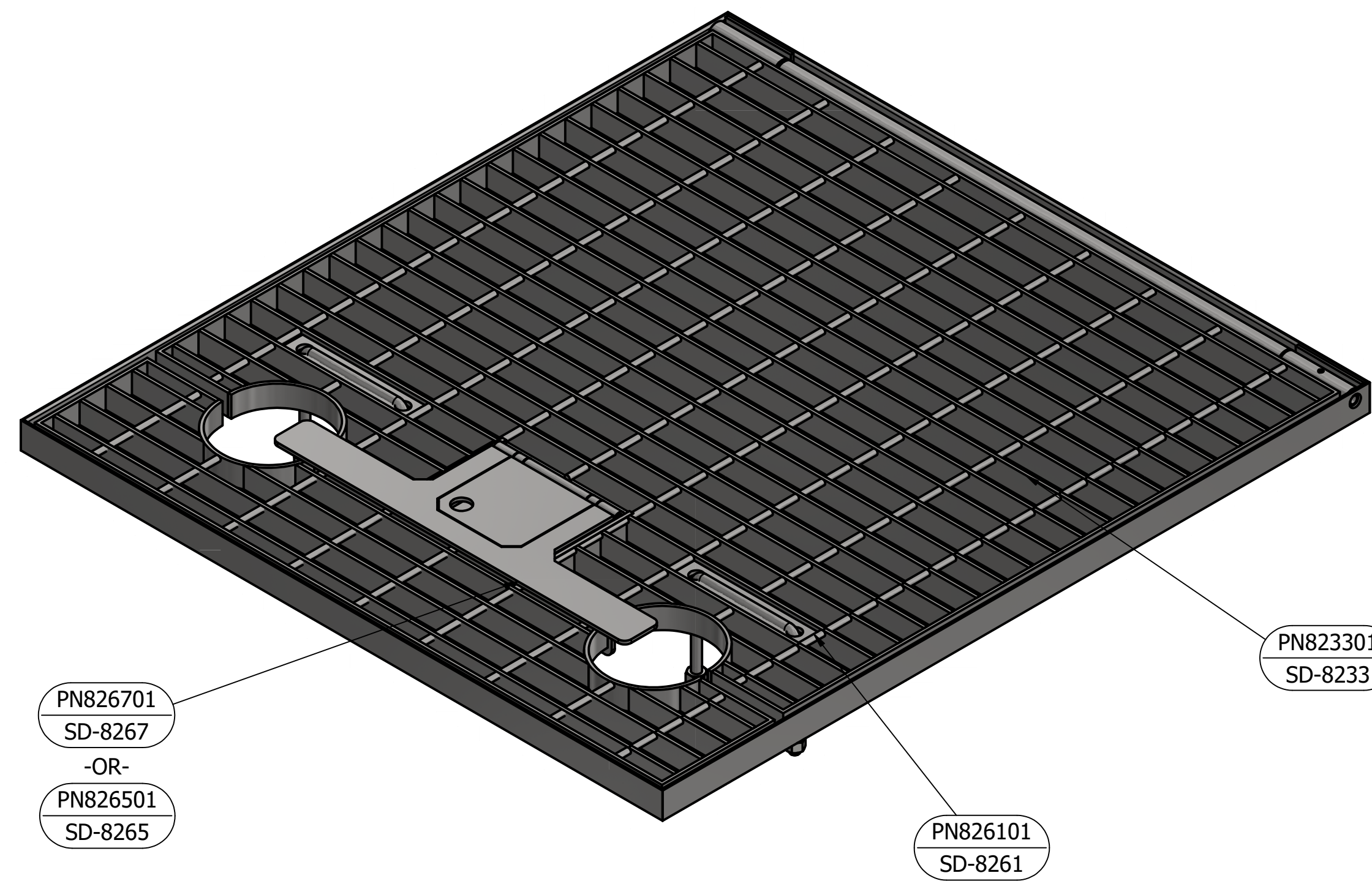
DRAWING STATUS	
Current	
SD-8218-D	
A1	ISSUE A

No.	ISSUE	DATE	DRAWN	CHECKED	AUTHORISED
1	INITIAL ISSUE	19/06/2018	M. Matusiak	K. Danenbergson	C. Patrick

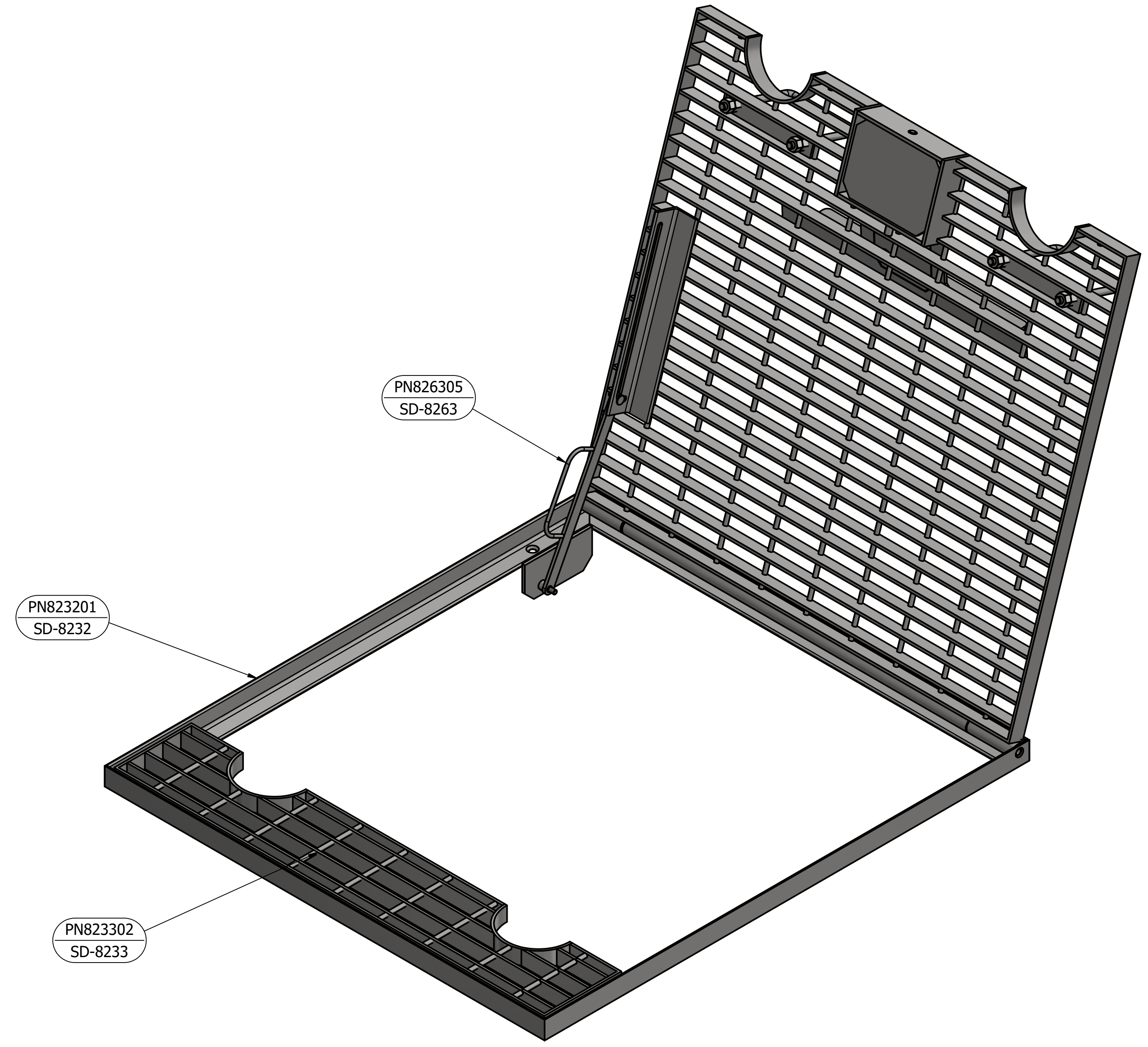
ICON WATER ACKNOWLEDGES SYDNEY WATER CORPORATION IN THE DEVELOPMENT OF THIS DRAWING

ASSET AREA APPLICABILITY

© Icon Water 2017



CLOSED POSITION



OPEN POSITION

**ISOMETRIC VIEWS
FLUSH FIT ACCESS HATCH
FOR VERTICAL RUNG LADDER**
SCALE : NTS

MATERIAL: CARBON STEEL
COATING: HOT DIP GALVANISED
FINISH COLOUR: N/A
MASS: 60 kg (INCLUDING FRAME)

PARTS LIST				
PART NUMBER	DESCRIPTION	QTY	MASS	REFERENCE
PN823201	HATCH FRAME	1	12 kg	SD-8232
PN823301	HATCH COVER	1	32 kg	SD-8233
PN823302	FIXED HATCH COVER	1	8 kg	SD-8233
PN826701	LOCK BOX - STANCHION LOCKING TYPE	1	6 kg	SD-8267
PN826101	LIFTING HANDLE	2	1 kg	SD-8261

ITEM	AMDT.
PN823101	

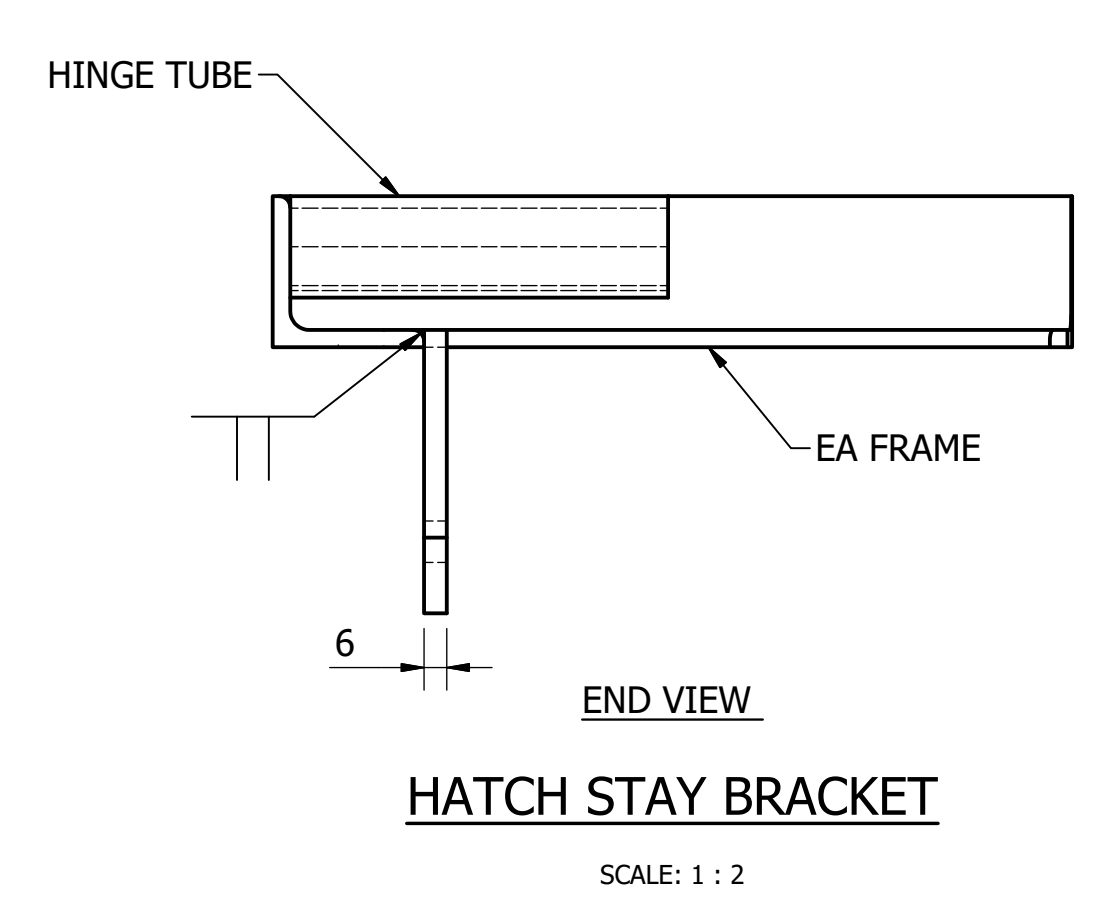
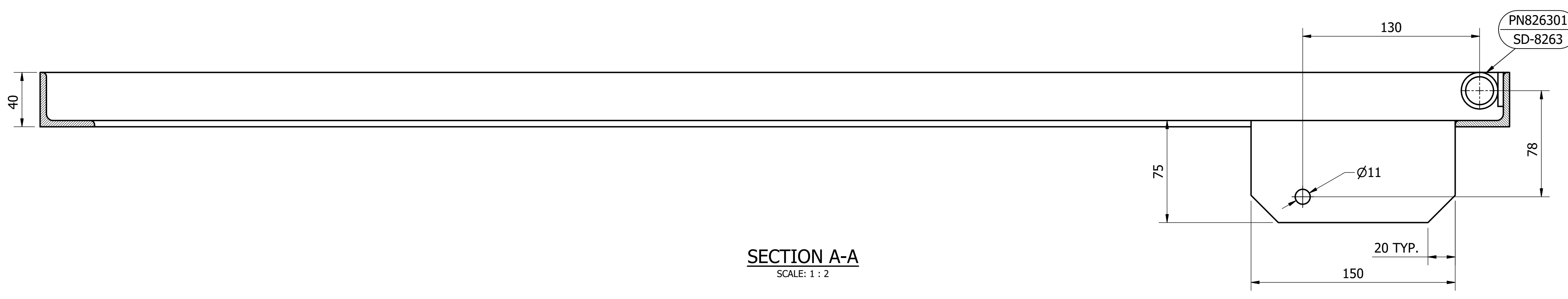
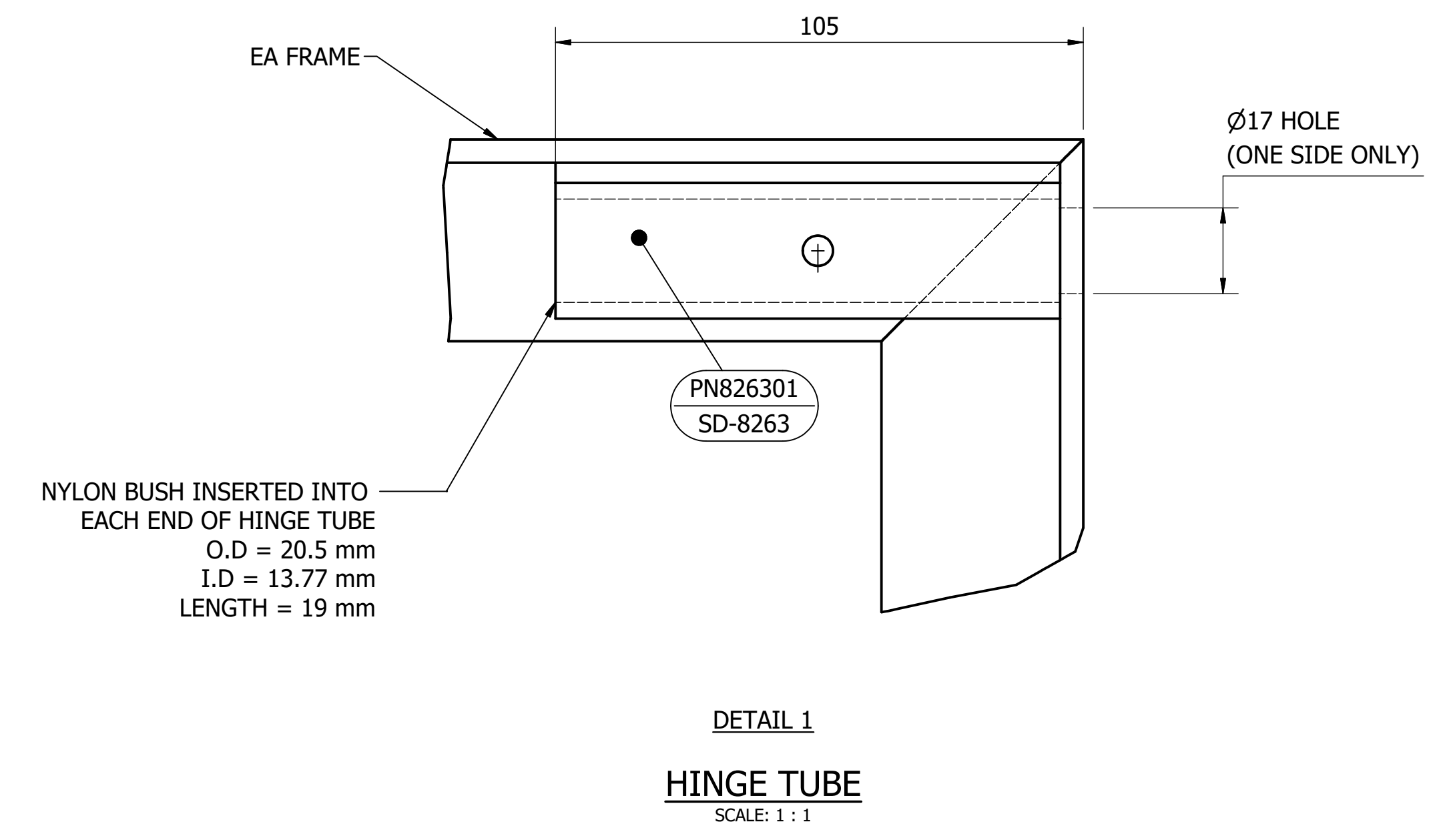
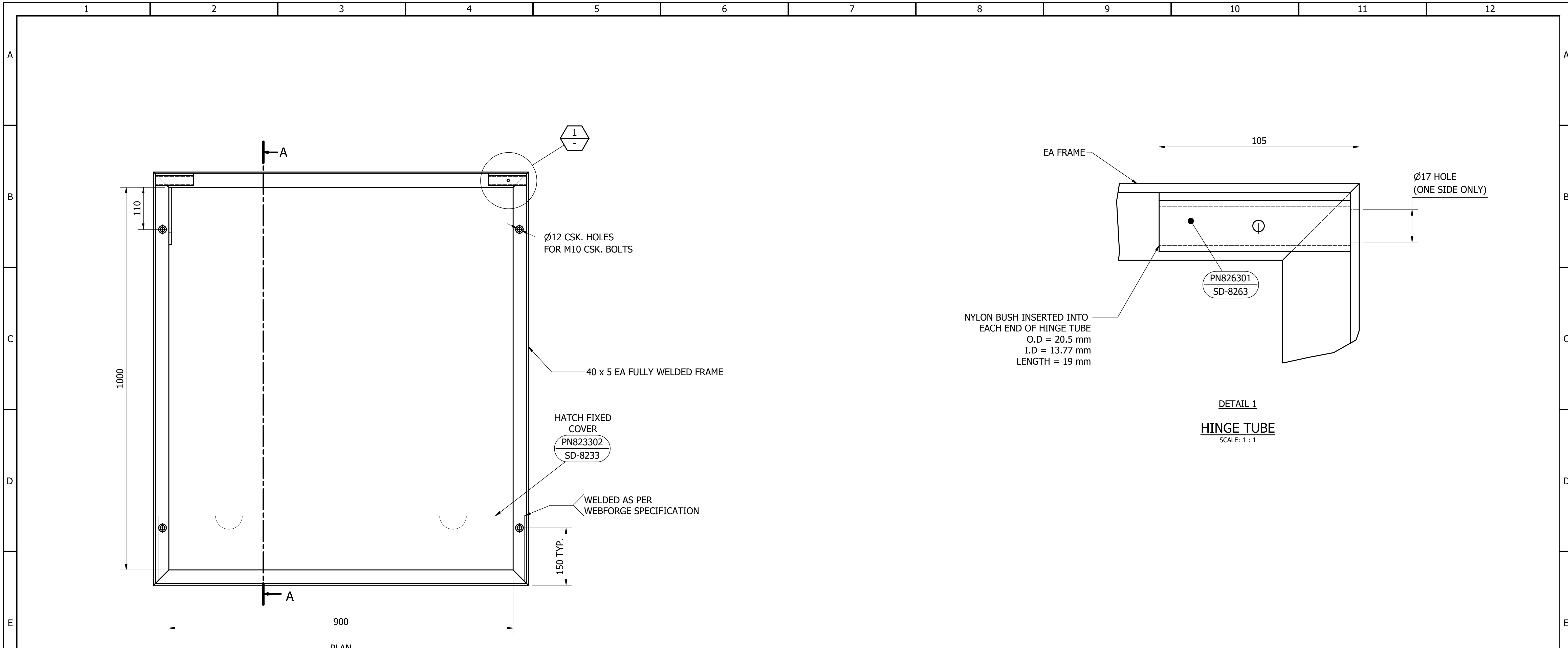
No.	ISSUE	DATE	DRAWN	CHECKED	AUTHORISED
A	INITIAL ISSUE	15/06/2018	S. Essery	K. Danenbergsons	D. Eager

ASSET AREA APPLICABILITY					
DAM	<input checked="" type="checkbox"/>	RES	<input checked="" type="checkbox"/>	SPS	<input checked="" type="checkbox"/>
BWS	<input checked="" type="checkbox"/>	WAT	<input checked="" type="checkbox"/>	STP	<input checked="" type="checkbox"/>
WTP	<input checked="" type="checkbox"/>	SEW	<input checked="" type="checkbox"/>		
WPS	<input checked="" type="checkbox"/>	REC	<input checked="" type="checkbox"/>		



STANDARD DRAWING
FLUSH FIT ACCESS COVERS - HOT DIP GALVANISED STEEL
HINGED FOR VERTICAL RUNG LADDERS
ARRANGEMENT

DRAWING STATUS	
Current	
SD-8231-D	
A1	ISSUE A



HATCH FRAME
SCALE: 1 : 5

MATERIAL: CARBON STEEL
COATING: HOT DIP GALVANISED
FINISH COLOUR: N/A
MASS: 12 kg

ITEM	AMDT.
PN823201	

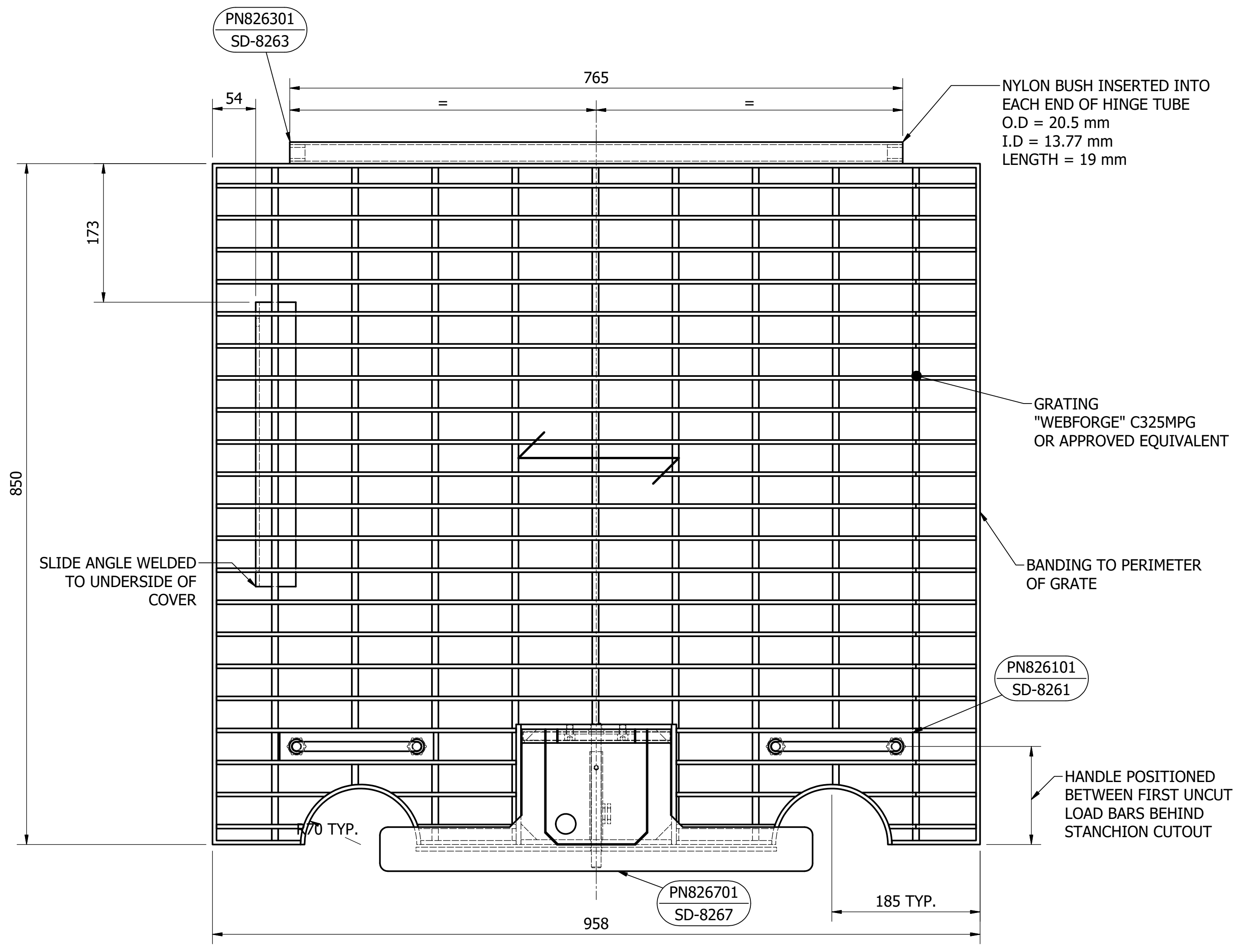
No.	ISSUE	DATE	DRAWN	CHECKED	AUTHORISED
A	INITIAL ISSUE	15/06/2018	S. Essery	K. Danenbergs	D. Eager

DAM	RES	SPS
BWS	WAT	STP
WTP	SEW	
WPS	REC	

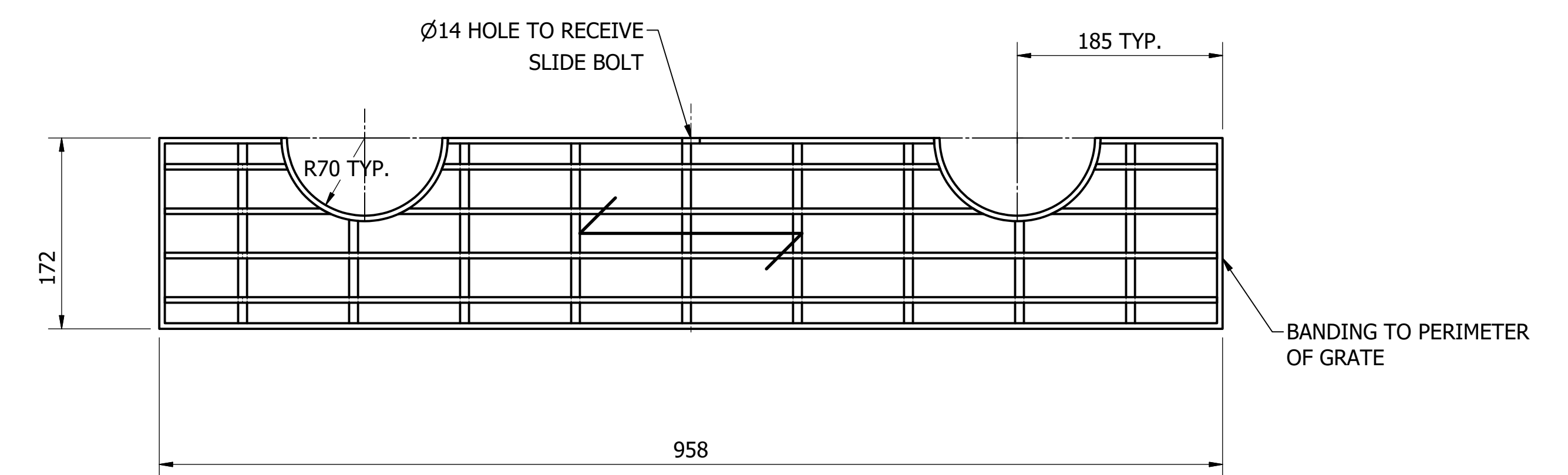


STANDARD DRAWING
FLUSH FIT ACCESS COVERS - HOT DIP GALVANISED STEEL
HINGED FOR VERTICAL RUNG LADDERS
FRAME DETAILS

DRAWING STATUS		Current
A1		SD-8232-D
ISSUE		A



PLAN
HATCH COVER
 SCALE: 1 : 4
 MATERIAL: CARBON STEEL
 COATING: HOT DIP GALVANISED
 FINISH COLOUR: N/A
 MASS: 30 kg



PLAN
HATCH FIXED COVER
 SCALE: 1 : 4
 MATERIAL: CARBON STEEL
 COATING: HOT DIP GALVANISED
 FINISH COLOUR: N/A
 MASS: 9 kg

NOTES:
 1. CARE TO BE TAKEN TO ALIGN WEB GRATE LOAD BARS AND CROSS RODS AS TO NOT INTERFERE WITH THE LIFTING HANDLES AND HATCH STAY.

ITEM	AMDT.
PN823301	

ITEM	AMDT.
PN823302	

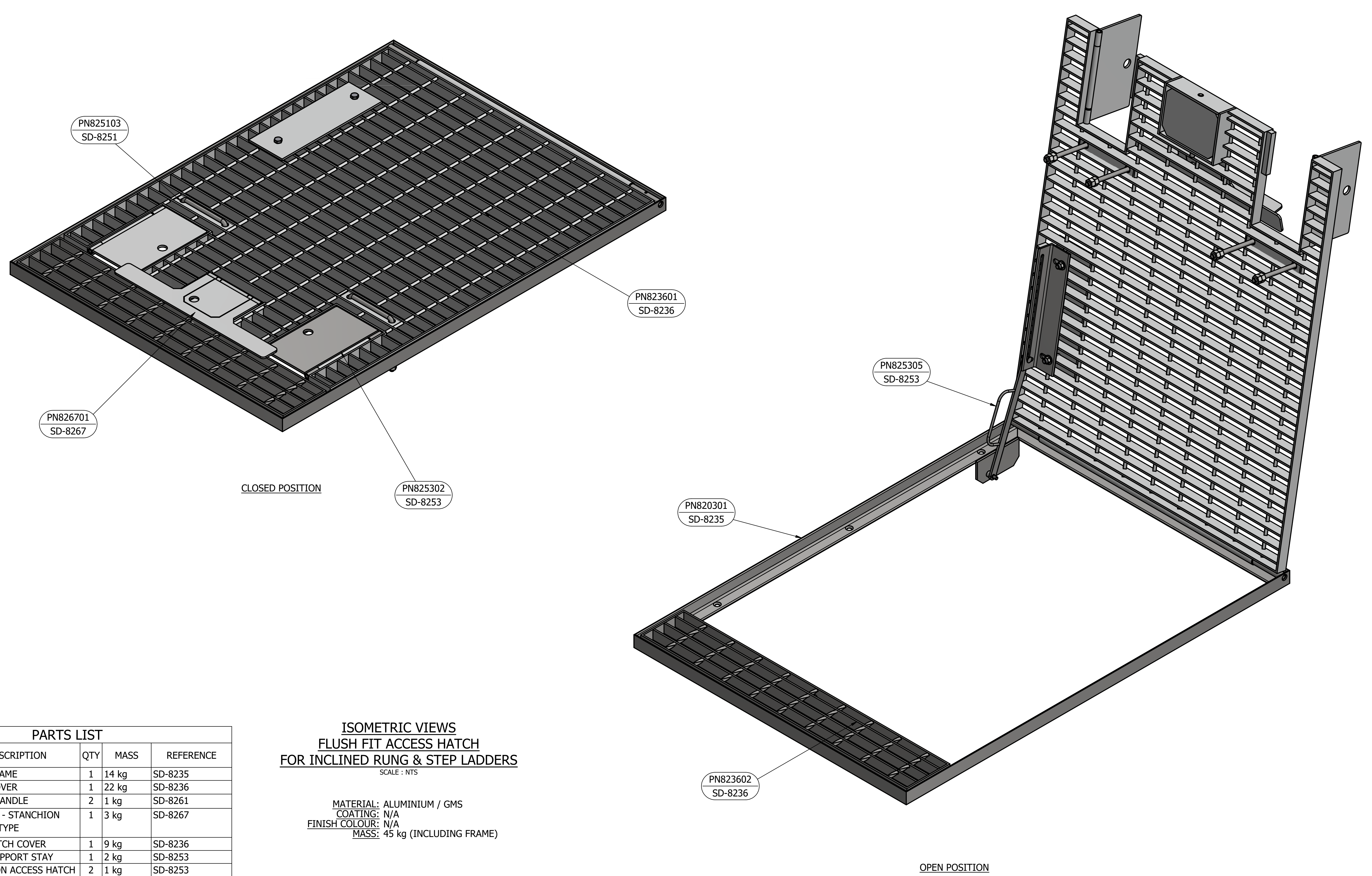
No.	ISSUE	DATE	DRAWN	CHECKED	AUTHORISED
A	INITIAL ISSUE	15/06/2018	S. Essery	K. Danenbergsons	D. Eager

ASSET AREA APPLICABILITY				
DAM	RES	SPS	WAT	STP
BWS	WAT	STP	WTP	SEW
WPS	REC			



STANDARD DRAWING
 FLUSH FIT ACCESS COVERS - HOT DIP GALVANISED STEEL
 HINGED FOR VERTICAL RUNG LADDERS
 COVER DETAILS

DRAWING STATUS	
Current	
SD-8233-D	
A1	ISSUE A



CLOSED POSITION

OPEN POSITION

**ISOMETRIC VIEWS
FLUSH FIT ACCESS HATCH
FOR INCLINED RUNG & STEP LADDERS**
SCALE : NTS

MATERIAL: ALUMINIUM / GMS
COATING: N/A
FINISH COLOUR: N/A
MASS: 45 kg (INCLUDING FRAME)

PARTS LIST

PART NUMBER	DESCRIPTION	QTY	MASS	REFERENCE
PN825301	HATCH FRAME	1	14 kg	SD-8235
PN823601	HATCH COVER	1	22 kg	SD-8236
PN826101	LIFTING HANDLE	2	1 kg	SD-8261
PN826701	LOCK BOX - STANCHION LOCKING TYPE	1	3 kg	SD-8267
PN823602	FIXED HATCH COVER	1	9 kg	SD-8236
PN825305	HATCH SUPPORT STAY	1	2 kg	SD-8253
PN825302	STANCHION ACCESS HATCH	2	1 kg	SD-8253

ITEM	AMDT.
PN823401	

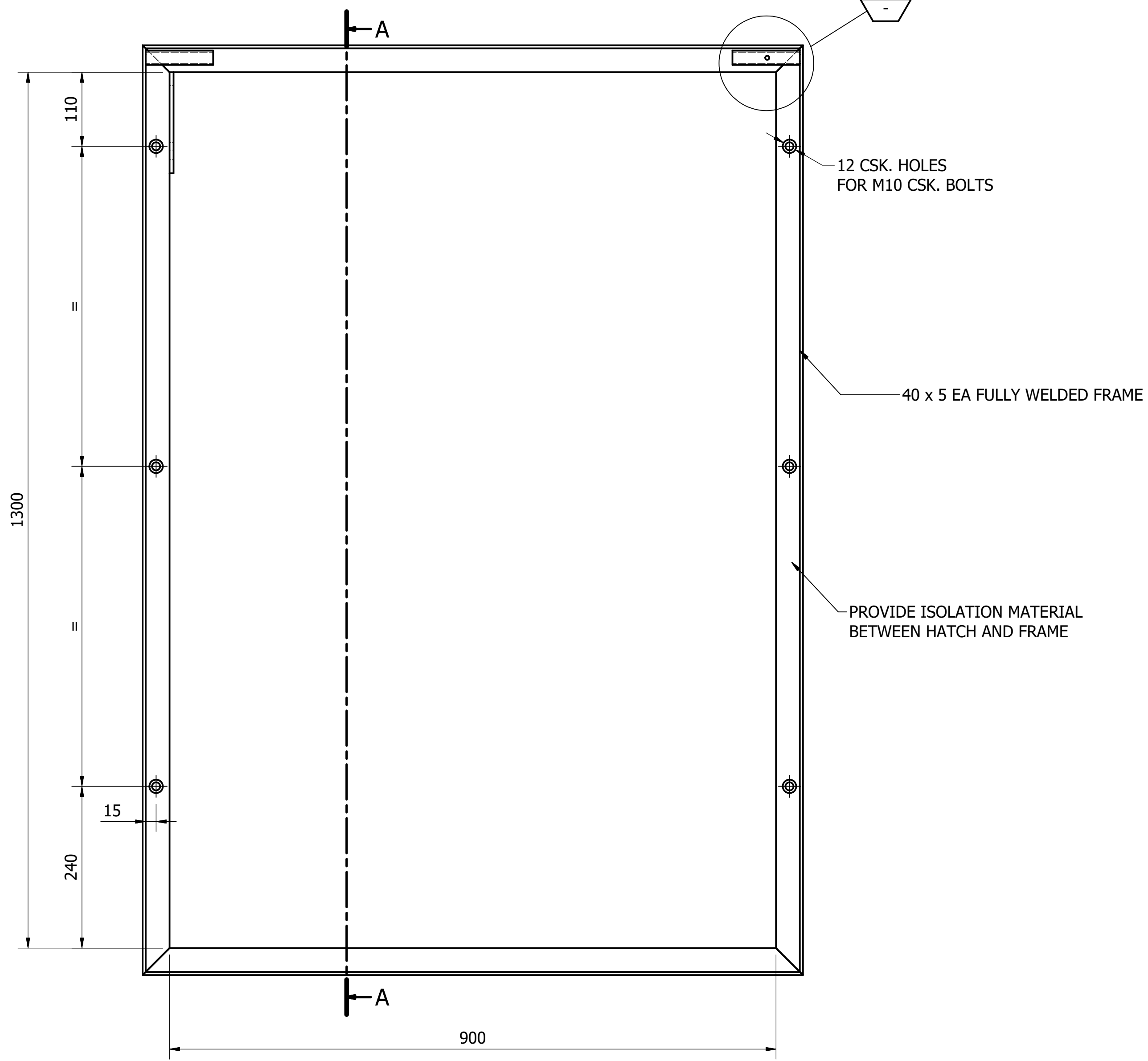
No.	ISSUE	DATE	DRAWN	CHECKED	AUTHORISED
A	INITIAL ISSUE	15/06/2018	K. Patel	K. Danenbergsons	D. Eager

ASSET AREA APPLICABILITY					
DAM	<input checked="" type="checkbox"/>	RES	<input checked="" type="checkbox"/>	SPS	<input checked="" type="checkbox"/>
BWS	<input checked="" type="checkbox"/>	WAT	<input checked="" type="checkbox"/>	STP	<input checked="" type="checkbox"/>
WTP	<input checked="" type="checkbox"/>	SEW	<input checked="" type="checkbox"/>		
WPS	<input checked="" type="checkbox"/>	REC	<input checked="" type="checkbox"/>		

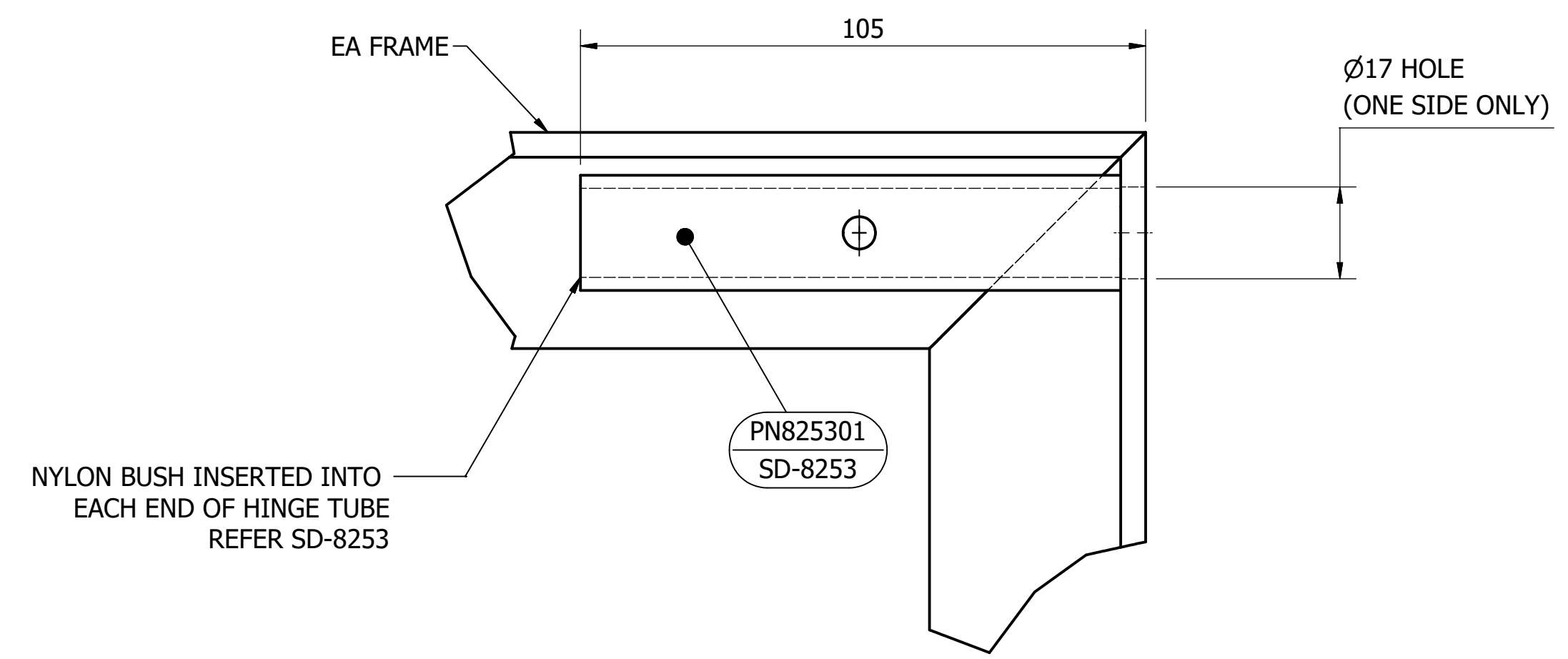


STANDARD DRAWING
FLUSH FIT ACCESS COVERS - HDG AND ALUMINIUM
HINGED FOR INCLINED RUNG AND STEP LADDERS
ARRANGEMENT

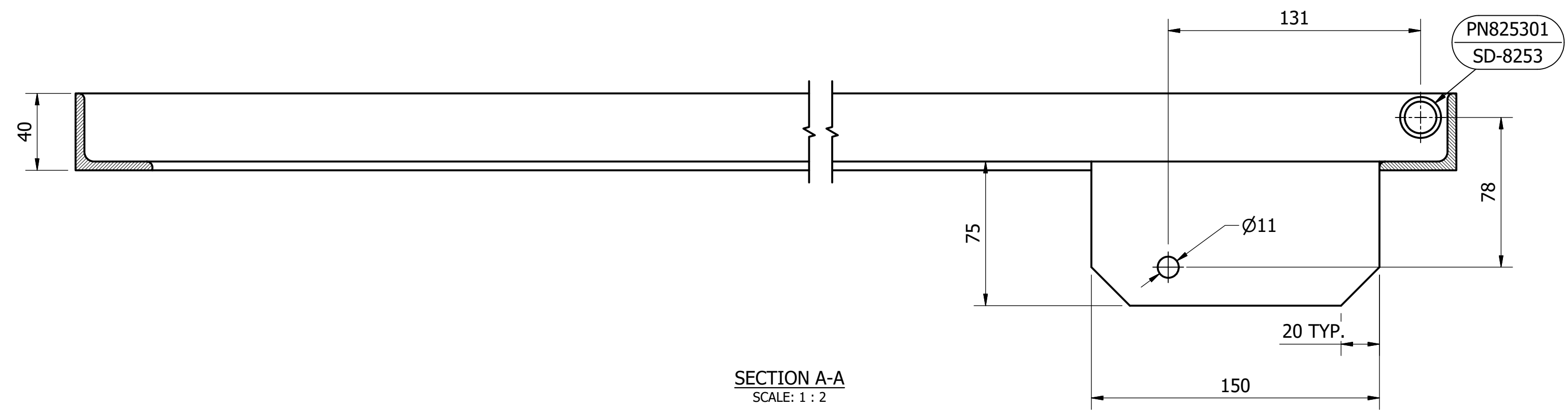
DRAWING STATUS	
Current	
SD-8234-D	ISSUE A
A1	© Icon Water 2017



PLAN
SCALE: 1 : 5



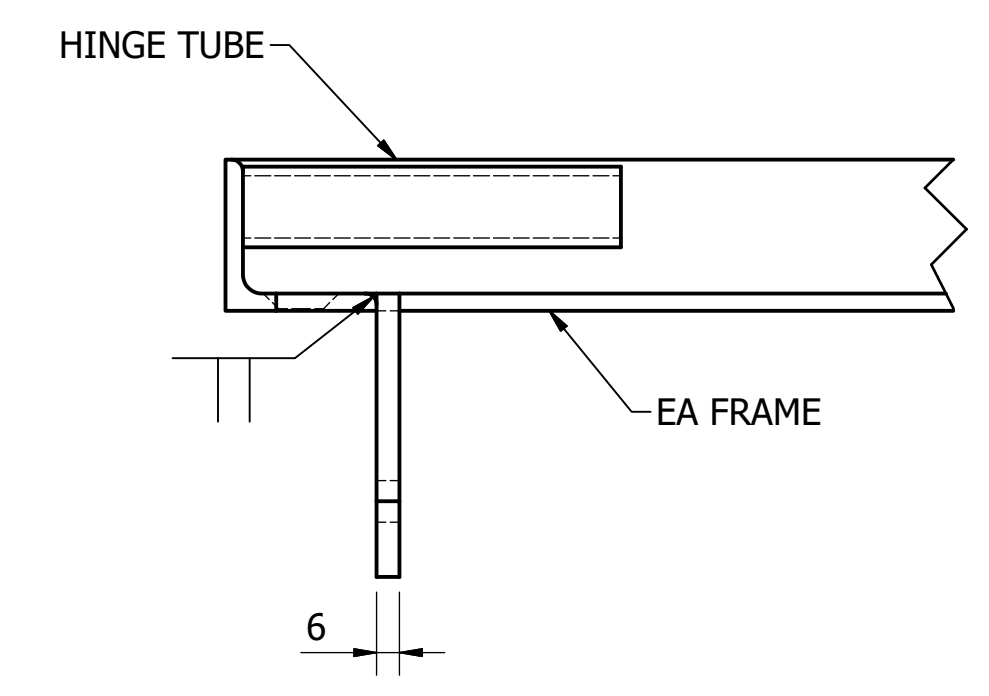
DETAIL 1
HINGE TUBE
SCALE: 1 : 1



SECTION A-A
SCALE: 1 : 2

HATCH FRAME

MATERIAL: CARBON STEEL
COATING: HOT DIP GALVANISED
FINISH COLOUR: N/A
MASS: 14 kg



END VIEW
HATCH STAY BRACKET
SCALE: 1 : 2

ITEM	AMDT.
PN823501	

No.	ISSUE	DATE	DRAWN	CHECKED	AUTHORISED
A	INITIAL ISSUE	15/06/2018	K. Patel	K. Danenbergsons	D. Eager

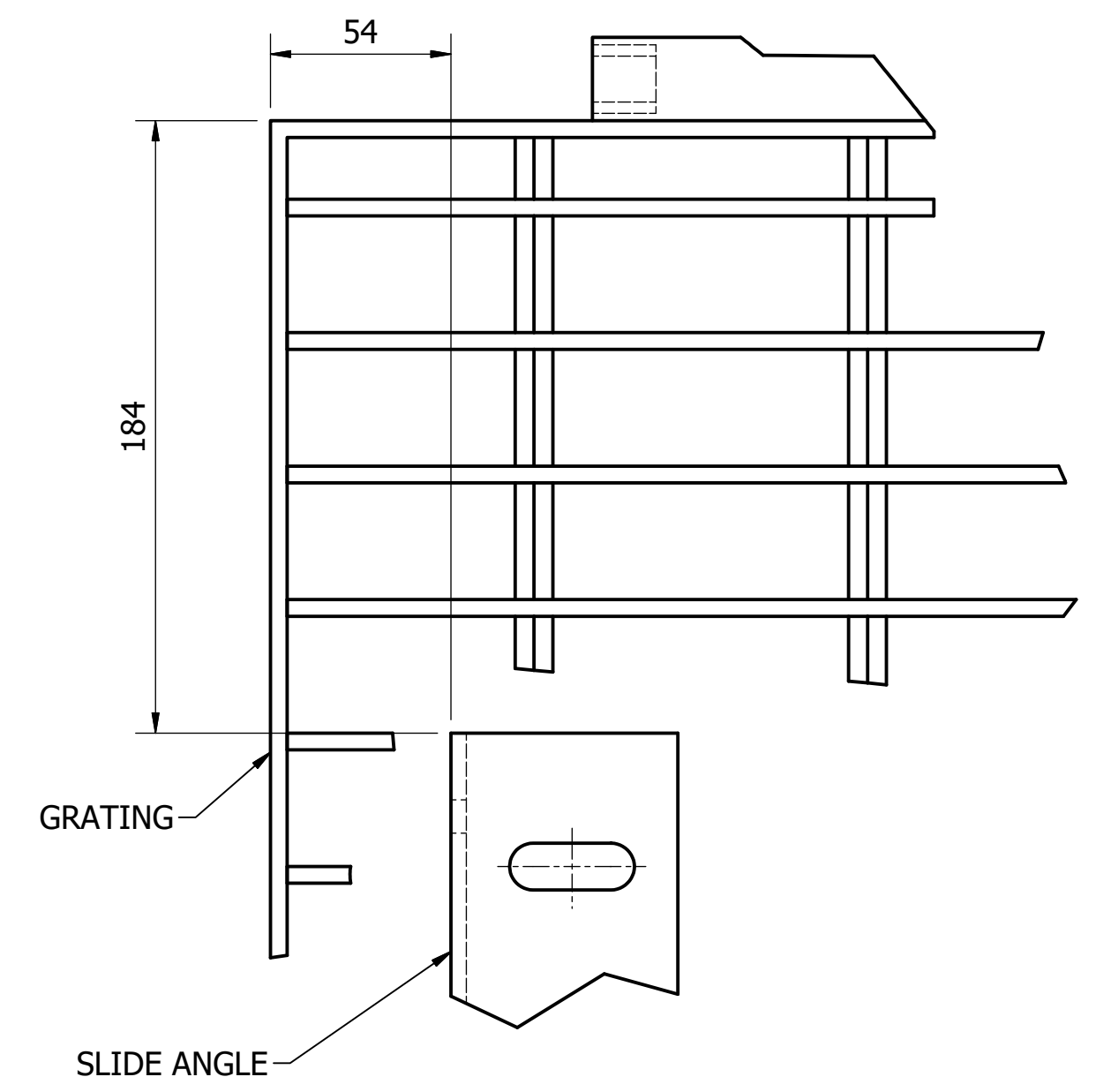
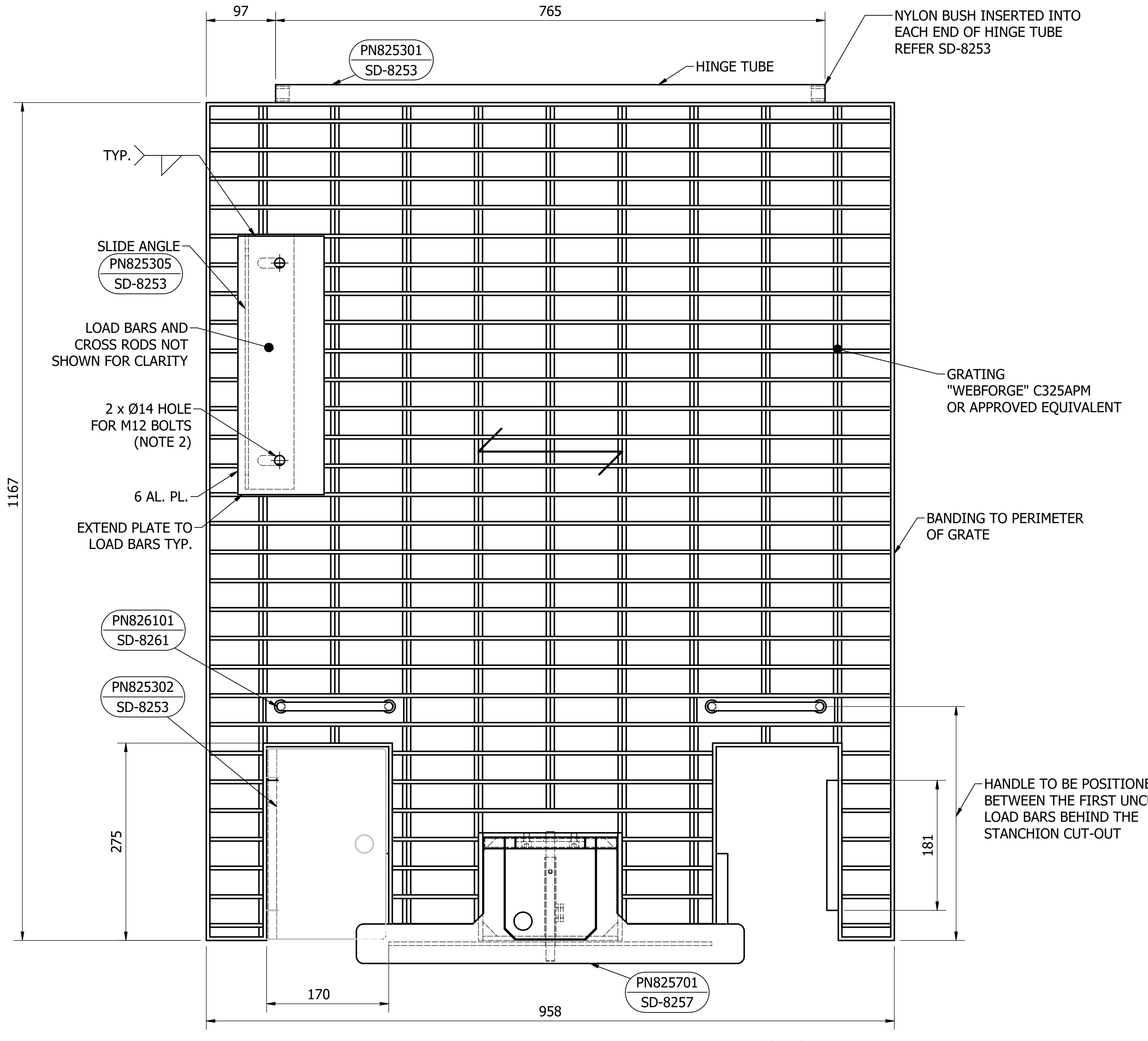
DAM	RES	SPS
BWS	WAT	STP
WTP	SEW	
WPS	REC	
ASSET AREA APPLICABILITY		



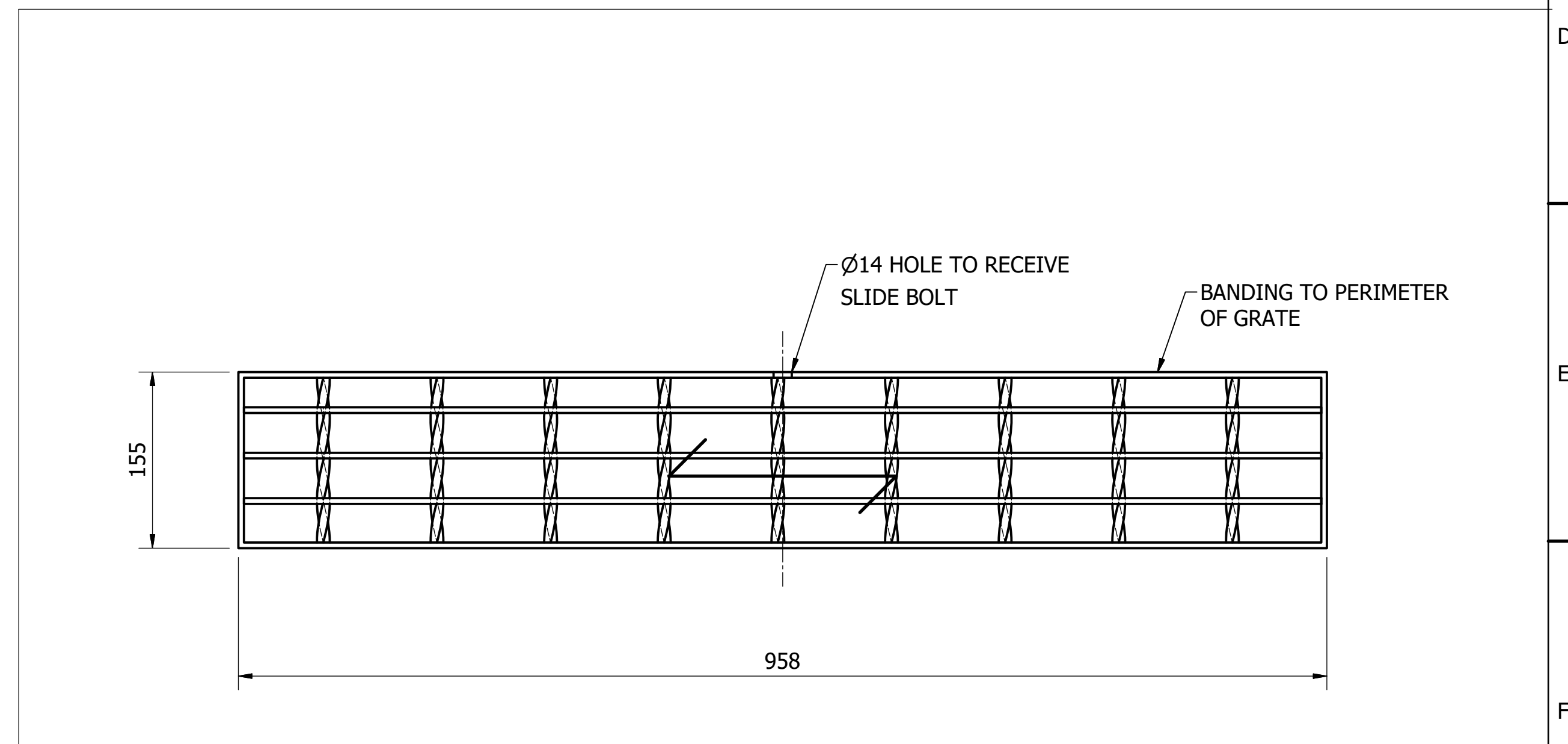
STANDARD DRAWING
FLUSH FIT ACCESS COVERS - HDG AND ALUMINIUM
HINGED FOR INCLINED RUNG AND STEP LADDERS
FRAME DETAILS

DRAWING STATUS	
Current	
SD-8235-D	
A1	ISSUE A
© Icon Water 2017	

- NOTES:**
- CARE TO BE TAKEN TO ALIGN GRATING LOAD BARS AND CROSS RODS AS TO NOT INTERFERE WITH THE LIFTING HANDLES.
 - HOLE PATTERN OF BOLT PLATE TO SUIT SLIDE ANGLE OF THE HATCH STAY ASSEMBLY.
 - PROVIDE A MINIMUM EDGE CLEARANCE OF 2 x BOLT DIAMETER FOR SLIDE ANGLE BOLT HOLES.



DETAIL - SLIDE ANGLE POSITION
SCALE: 1 : 2



PLAN HATCH FIXED COVER
SCALE: 1 : 4

MATERIAL: CARBON STEEL
COATING: HOT DIP GALVANISED
FINISH COLOUR: N/A
MASS: 10 kg

HATCH COVER
SCALE: 1 : 4
MATERIAL: ALUMINIUM
COATING: N/A
FINISH COLOUR: N/A
MASS: 21 kg

ITEM	AMDT.
PN823601	

ITEM	AMDT.
PN823602	

No.	ISSUE	DATE	DRAWN	CHECKED	AUTHORISED
A	INITIAL ISSUE	15/06/2018	K. Patel	K. Danenbergson	D. Eager

DAM	RES	SPS
BWS	WAT	STP
WTP	SEW	
WPS	REC	

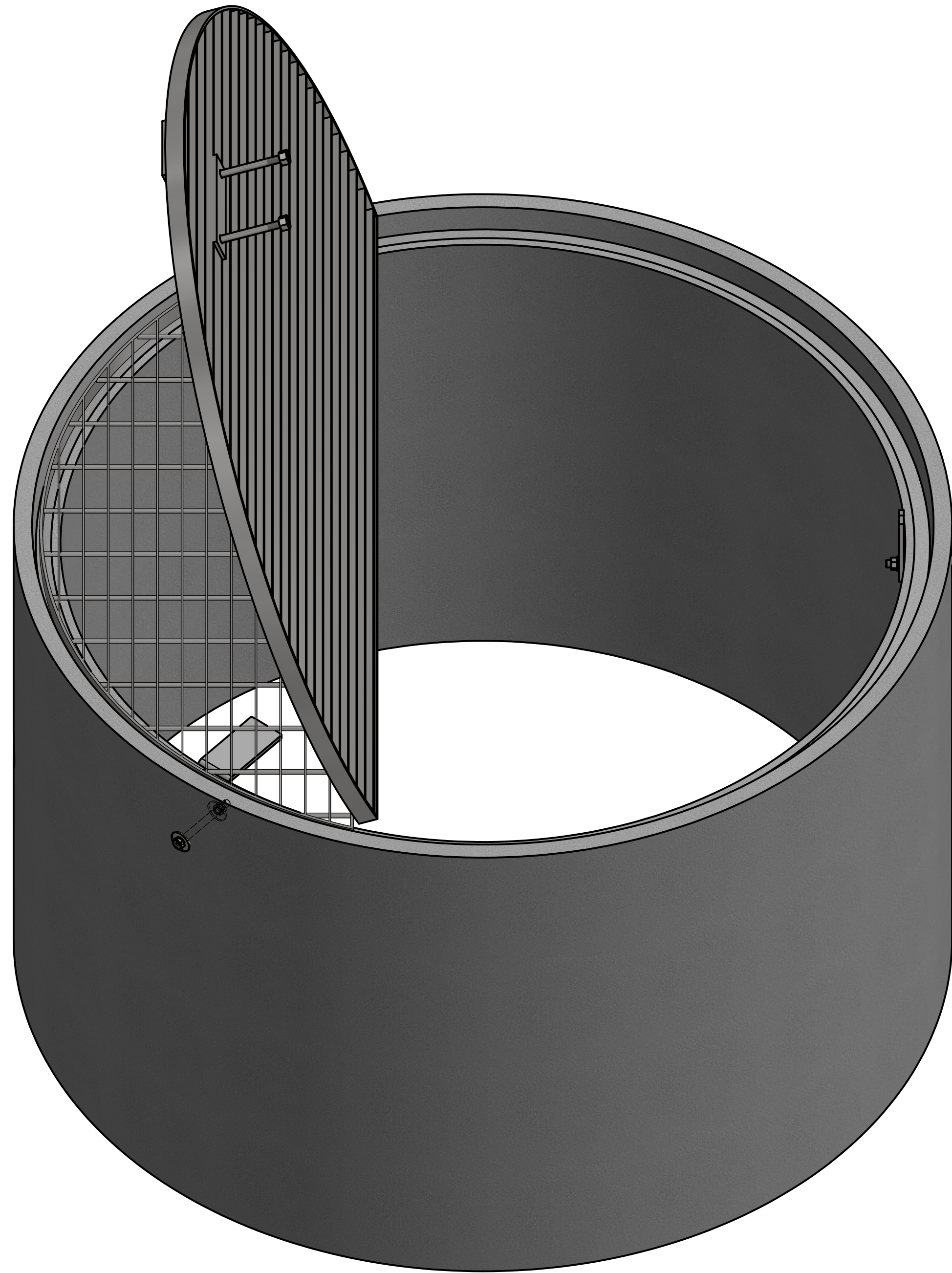


STANDARD DRAWING
FLUSH FIT ACCESS COVERS - HDG AND ALUMINIUM
HINGED FOR INCLINED RUNG AND STEP LADDERS
COVER DETAILS

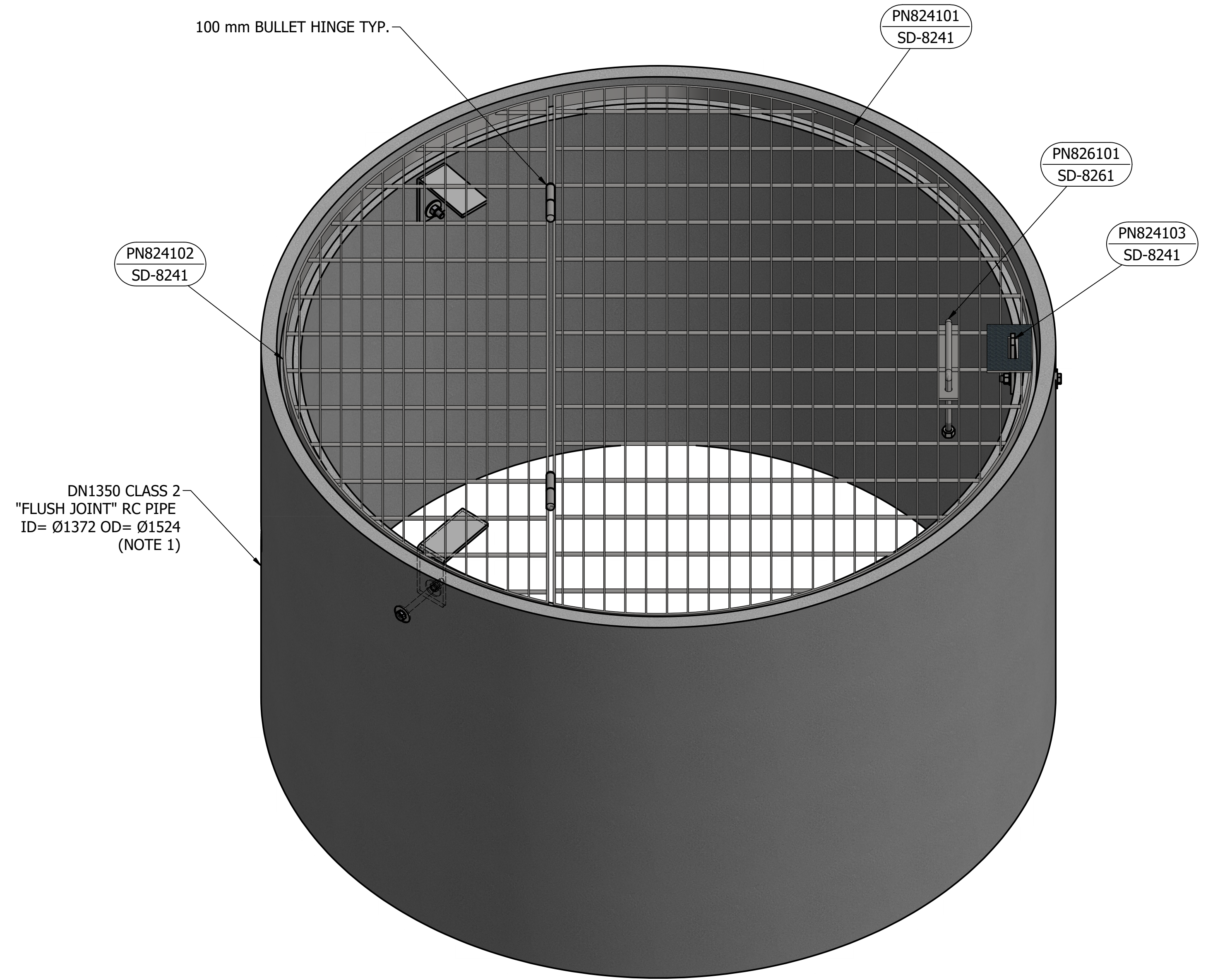
DRAWING STATUS	
Current	
SD-8236-D	
A1	ISSUE A

NOTES:

1. THE DESIGNER IS TO SHOW THE LENGTH OF RC PIPE ON PROJECT SPECIFIC DRAWINGS. FOR EXAMPLE, THE DESIGNER IS TO USE THE DETAILS DEPICTED ON SD-3210 OR SD-4115 (AS APPROPRIATE) FOR THE BASIS OF SUCH A PROJECT SPECIFIC DRAWING.



OPEN POSITION



CLOSED POSITION

PARTS LIST				
PART NUMBER	DESCRIPTION	QTY	MASS	REFERENCE
PN824101	COVER PANEL 1	1	30 kg	SD-8241
PN824102	COVER PANEL 2	1	15 kg	SD-8241
PN824103	LOCKING TAB	1	2 kg	SD-8241
PN824104	KEEPER BRACKET	2	2 kg	SD-8241
PN826101	LIFTING HANDLE	1	0.5 kg	SD-8261
N/A	100 mm BULLET HINGE	2	0.5 kg	N/A

ITEM	AMDT.
PN824001	

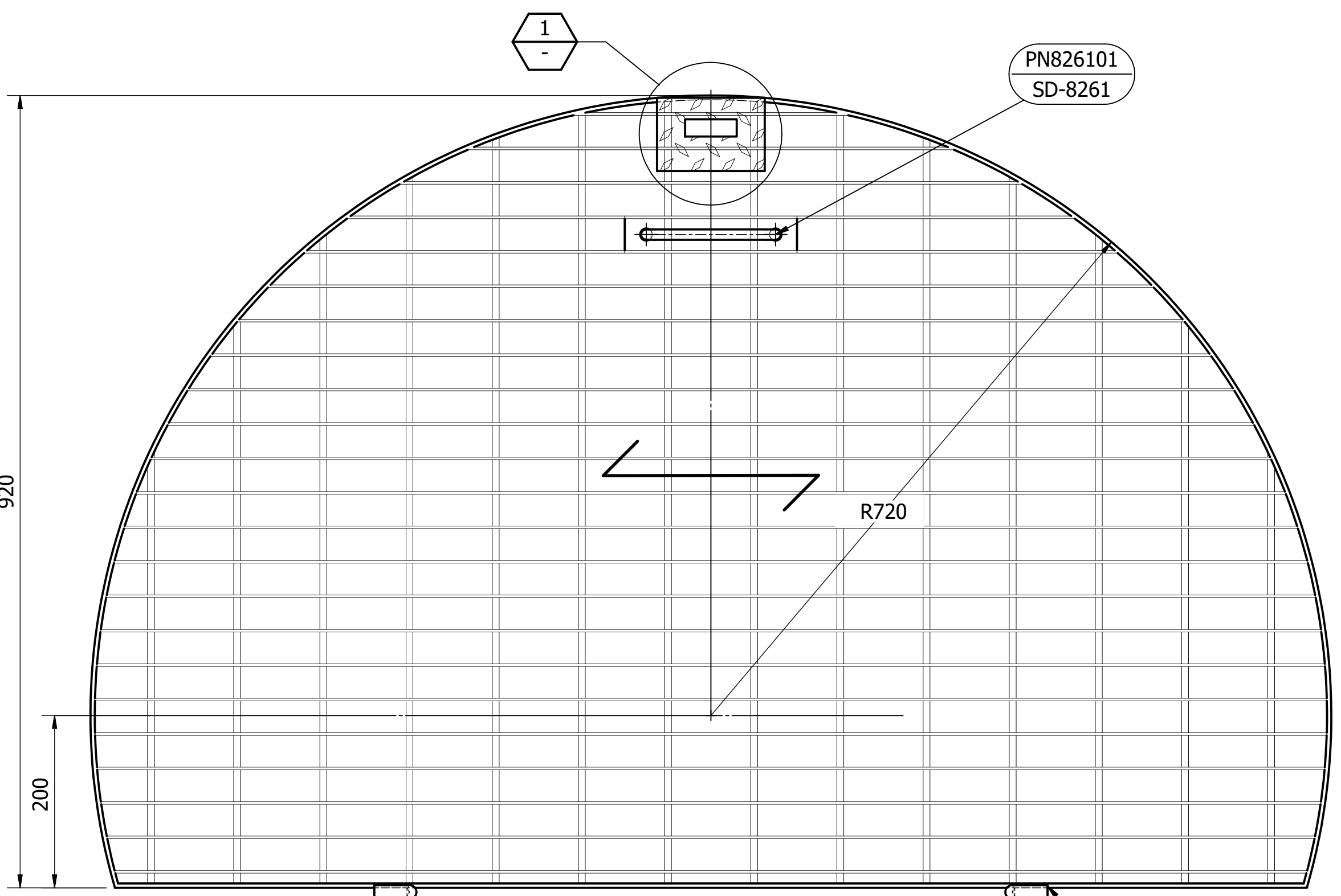
No.	ISSUE	DATE	DRAWN	CHECKED	AUTHORISED
A	INITIAL ISSUE	17/09/2018	S. Essery	K. Danenbergson	C. Patrick

ASSET AREA APPLICABILITY					
DAM	<input checked="" type="checkbox"/>	RES	<input checked="" type="checkbox"/>	SPS	<input checked="" type="checkbox"/>
BWS	<input checked="" type="checkbox"/>	WAT	<input checked="" type="checkbox"/>	STP	<input checked="" type="checkbox"/>
WTP	<input checked="" type="checkbox"/>	SEW	<input checked="" type="checkbox"/>		
WPS	<input type="checkbox"/>	REC	<input type="checkbox"/>		



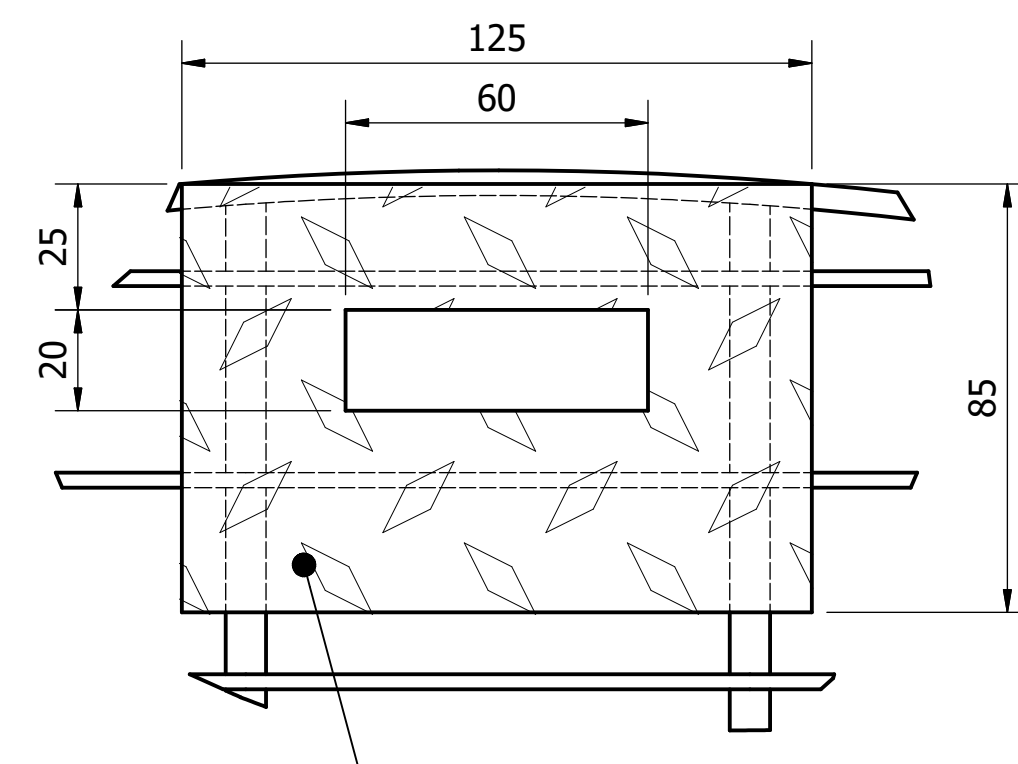
STANDARD DRAWING
ROUND VALVE CHAMBER COVER
ARRANGEMENT

DRAWING STATUS	
Current	
SD-8240-D	
A1	ISSUE A



PLAN
COVER PANEL 1
 MATERIAL: GMS WEBFORGE C323 MPG BANDED ALL ROUND
 MASS: 30 kg

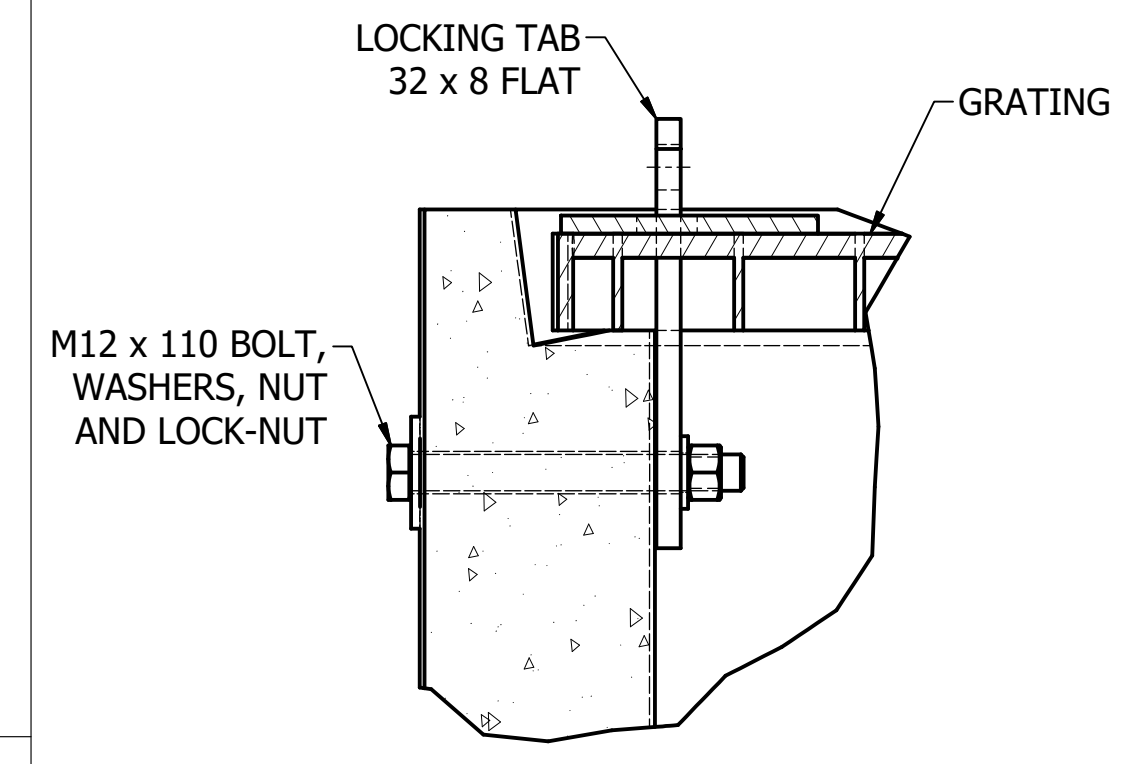
ITEM	AMDT.
PN824101	



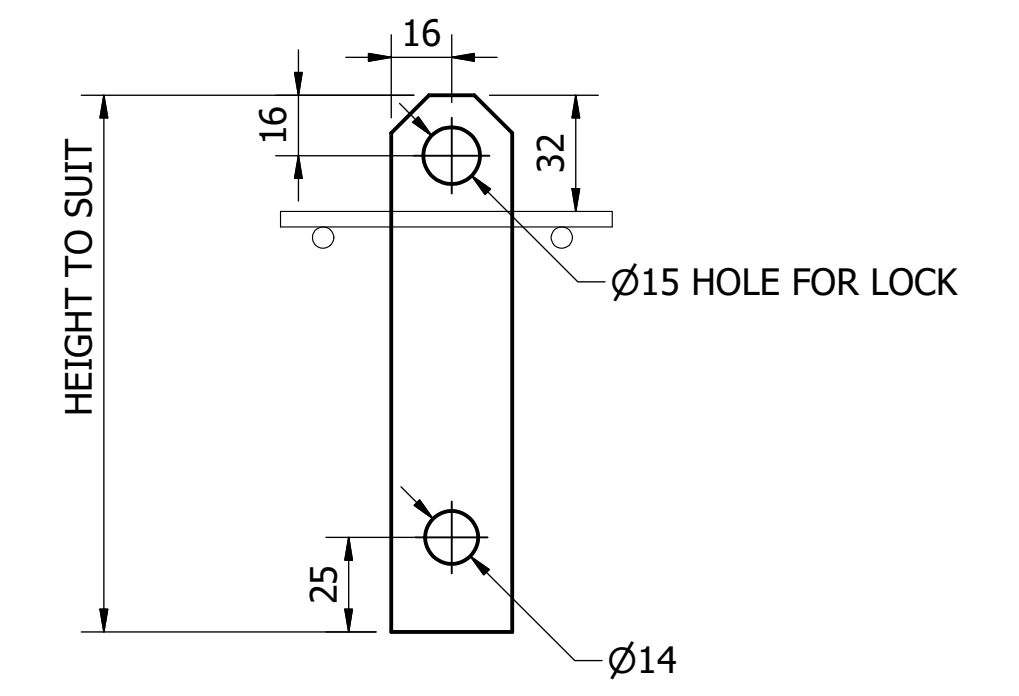
DETAIL 1
LOCKING PLATE
 SCALE: 1 : 2

NOTES:

- COVER PANELS HAVE BEEN DESIGNED TO BE LESS THAN 32 kg EACH AND CAPABLE OF SUPPORTING A 2.5 kPa UDL WITH A MAX. MIDSPAN DEFLECTION OF 5.0 mm.
- ALL ITEMS EXCEPT HINGES ARE TO BE HOT DIP GALVANISED AFTER FABRICATION. HINGES ARE TO BE "COLD GALVANISED" IN ACCORDANCE WITH WSA-201 AFTER INSTALLATION ON SITE.



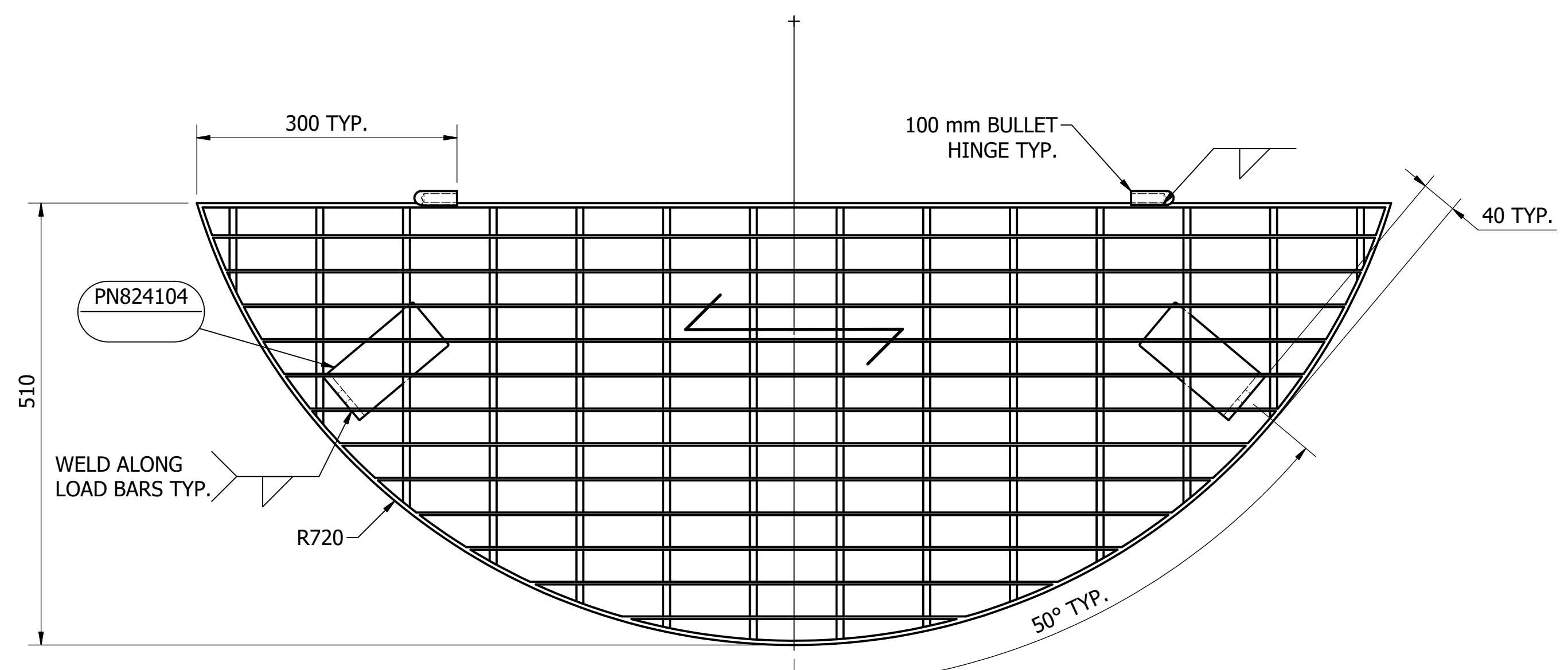
FIXING DETAIL



FRONT VIEW

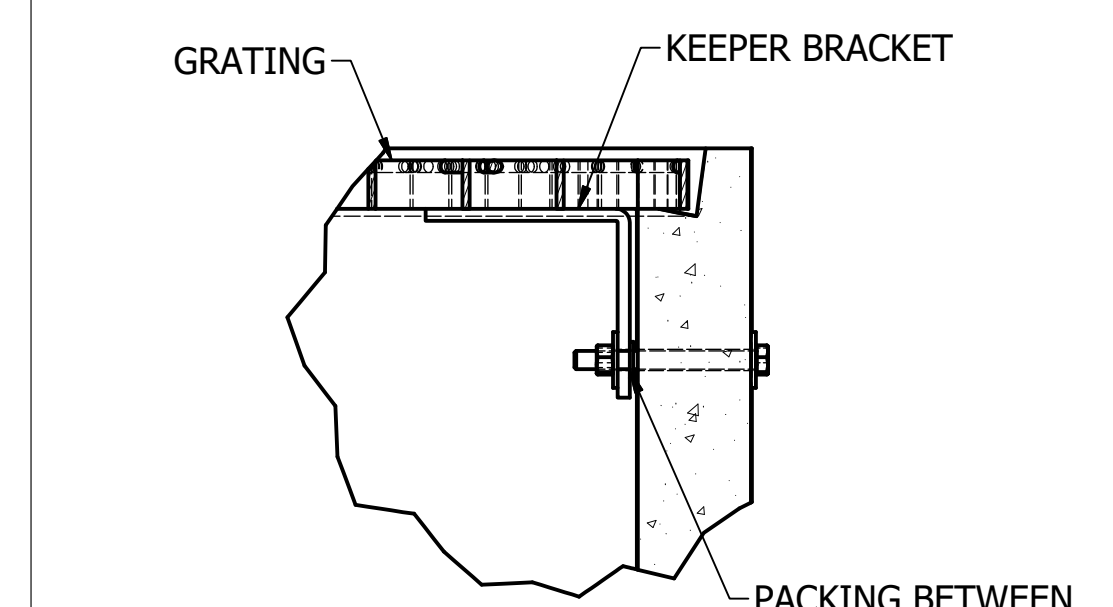
LOCKING TAB

ITEM	AMDT.
PN824103	

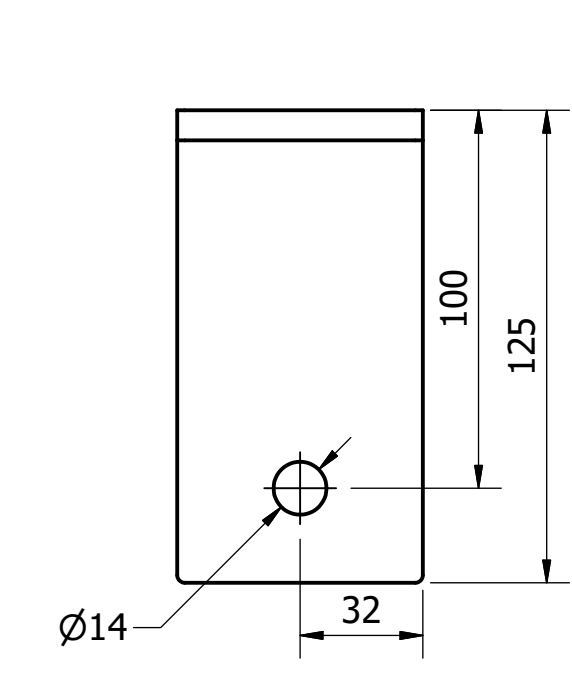


PLAN
COVER PANEL 2
 MATERIAL: AS PER PANEL 1
 MASS: 15 kg

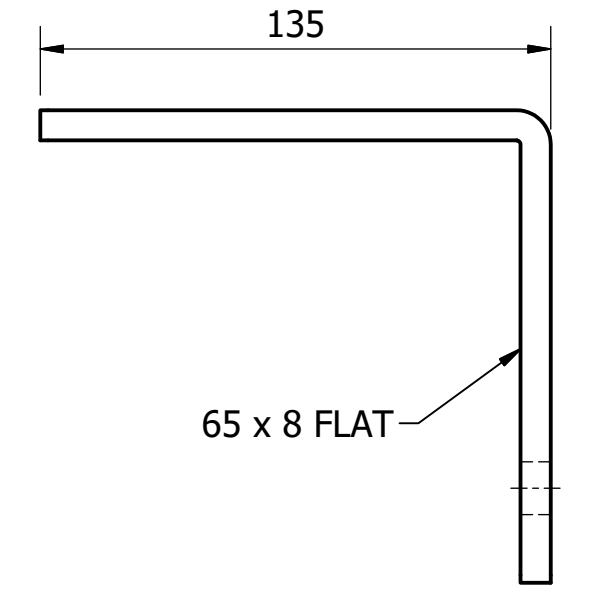
ITEM	AMDT.
PN824102	



FIXING DETAIL



FRONT VIEW



SIDE VIEW

KEEPER BRACKET

ITEM	AMDT.
PN824104	

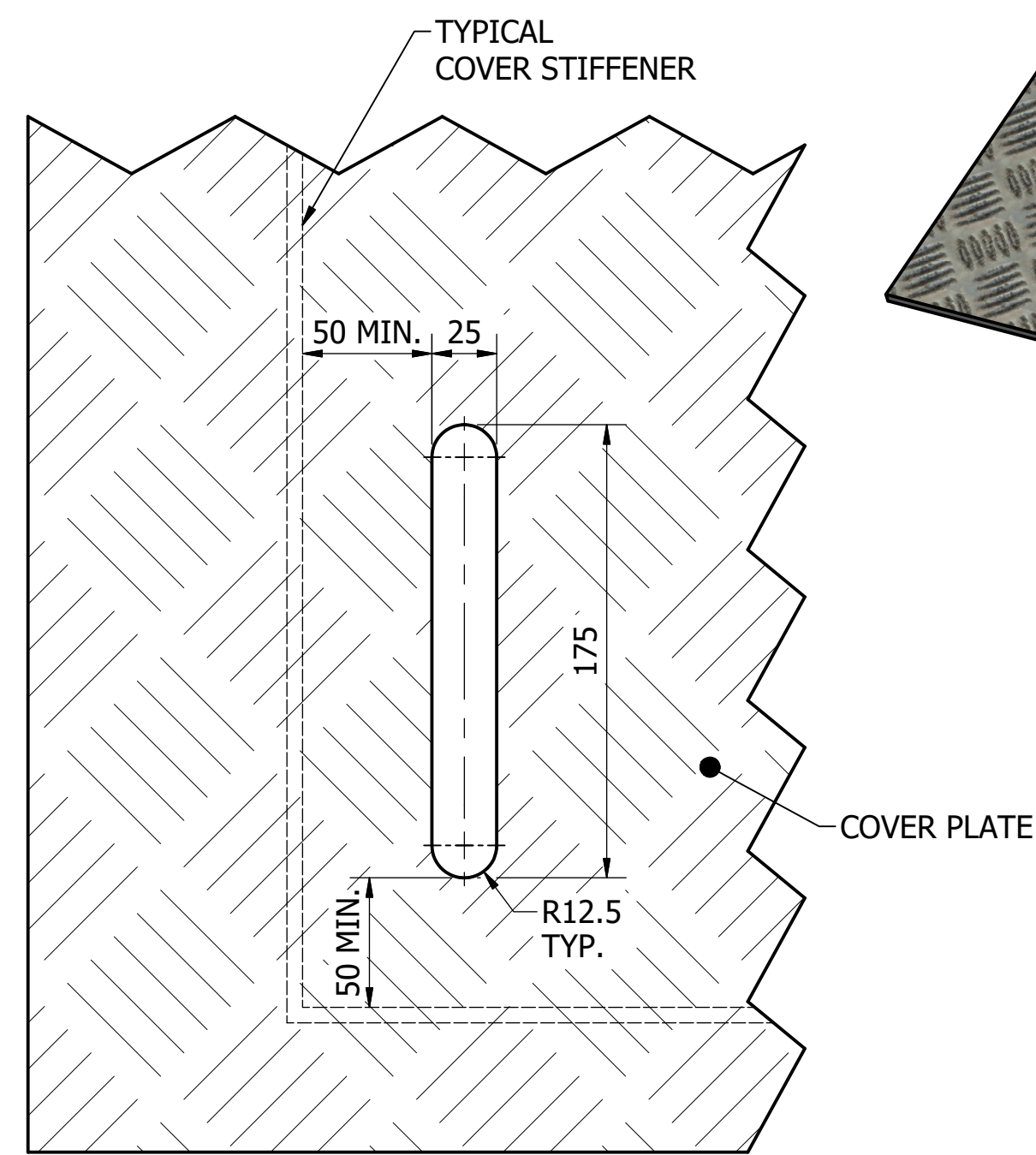
ASSET AREA APPLICABILITY				
DAM	RES	SPS		
WTP	WAT	STP		
WPS	REC			



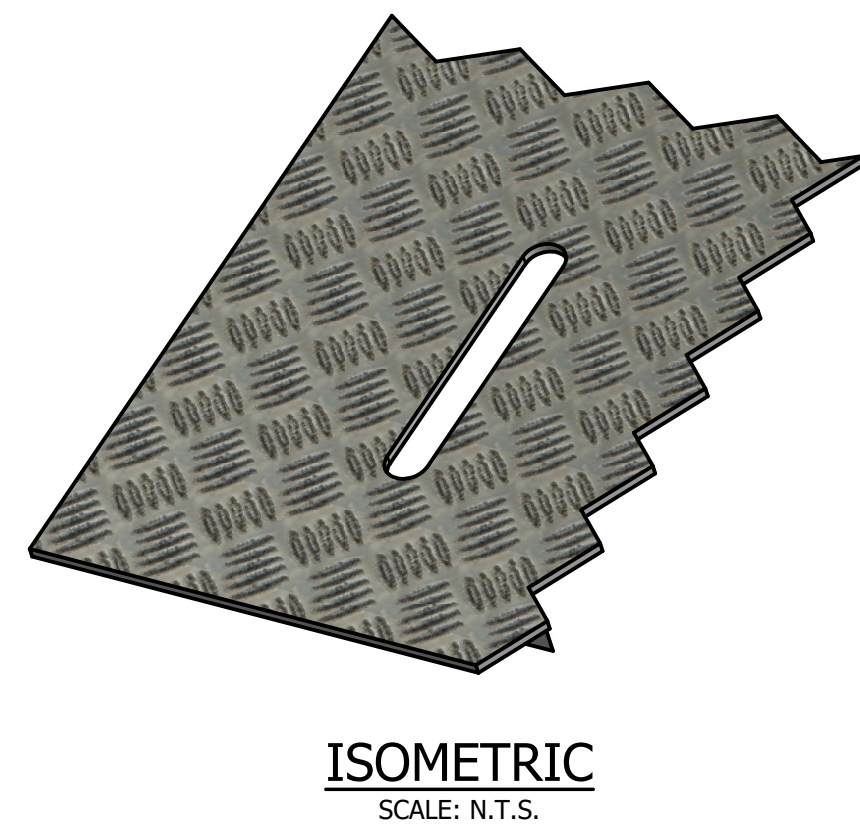
STANDARD DRAWING
 ACCESS COVERS
 RURAL/SEMI-RURAL ROUND VALVE CHAMBERS
 COVER DETAILS

DRAWING STATUS
Current
SD-8241-D
 © Icon Water 2017

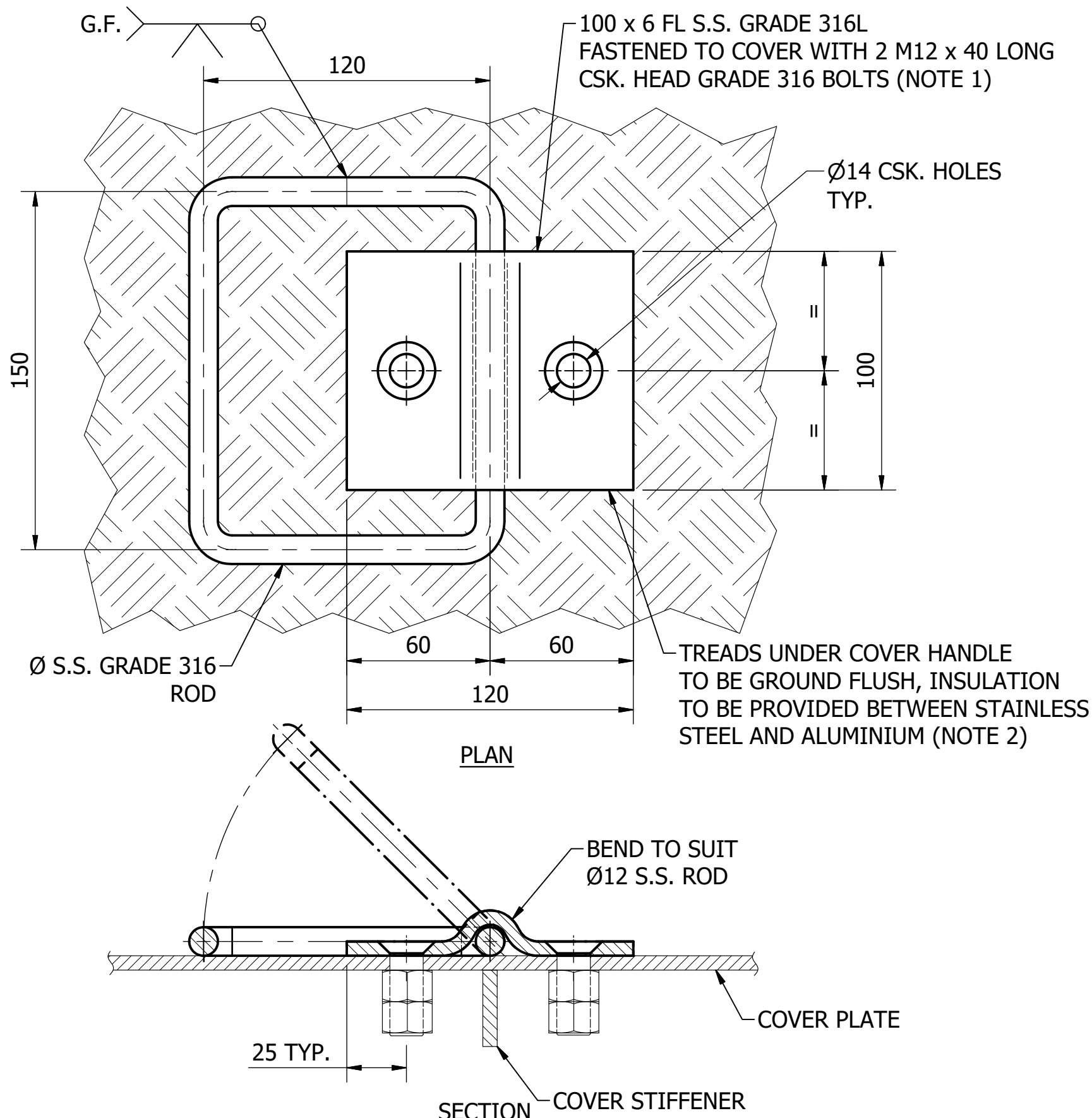
No.	ISSUE	DATE	DRAWN	CHECKED	AUTHORISED
A	INITIAL ISSUE	15/06/2018	M. Matusiak	K. Danenbergsons	D. Eager
B	DRAWING NAME & NUMBER, HINGE, AND KEEPER PLATE UPDATE	17/09/2018	S. Essery	K. Danenbergsons	C. Patrick



HAND SLOT
FOR ACCESS HATCHES WITH A MASS OF ≥ 10 kg ONLY
SCALE: 1 : 2.5



ITEM	AMDT.
PN825101	



FOLD FLAT HANDLE
SCALE: 1:2
MATERIAL: STAINLESS STEEL
COATING: N/A
FINISH COLOUR: N/A
MASS: 1 kg

ITEM	AMDT.
PN825102	

NOTES

1. STAINLESS STEEL TO ALUMINIUM CONNECTIONS TO BE INSULATED WITH "DENSO" PRIMER D AND DENSOPOL 60 TAPE OR APPROVED EQUIVALENT.
2. ALL STAINLESS STEEL FIXTURES INTO ALUMINIUM TO BE SEPARATED WITH INSULATING BUSHES AND RETAINING RINGS OR WASHERS.

DAM	RES	SPS
BWS	WAT	STP
WTP	SEW	
WPS	REC	



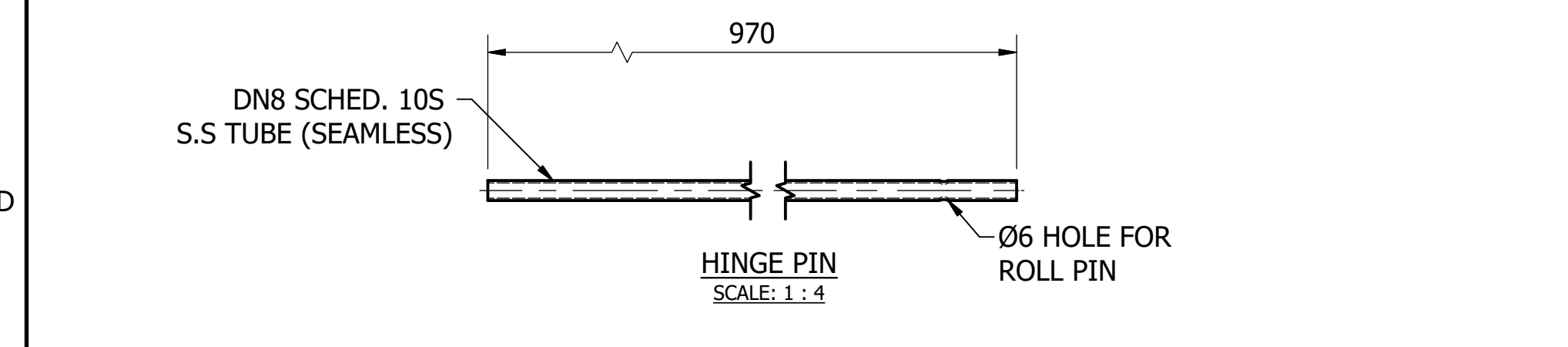
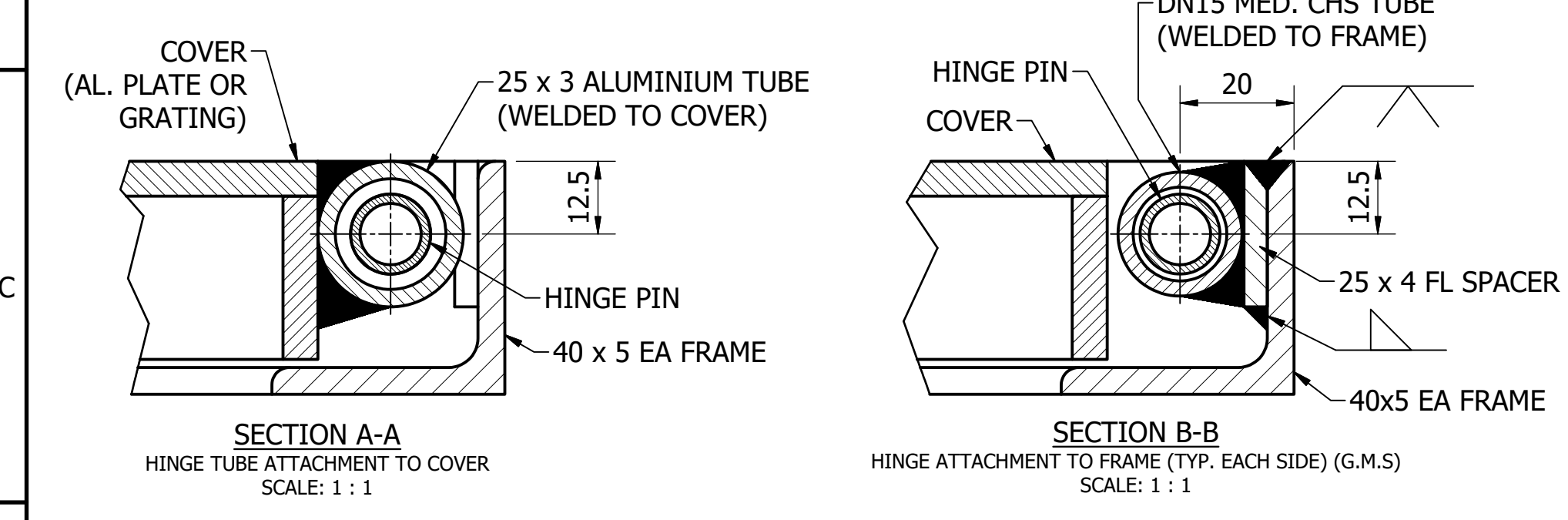
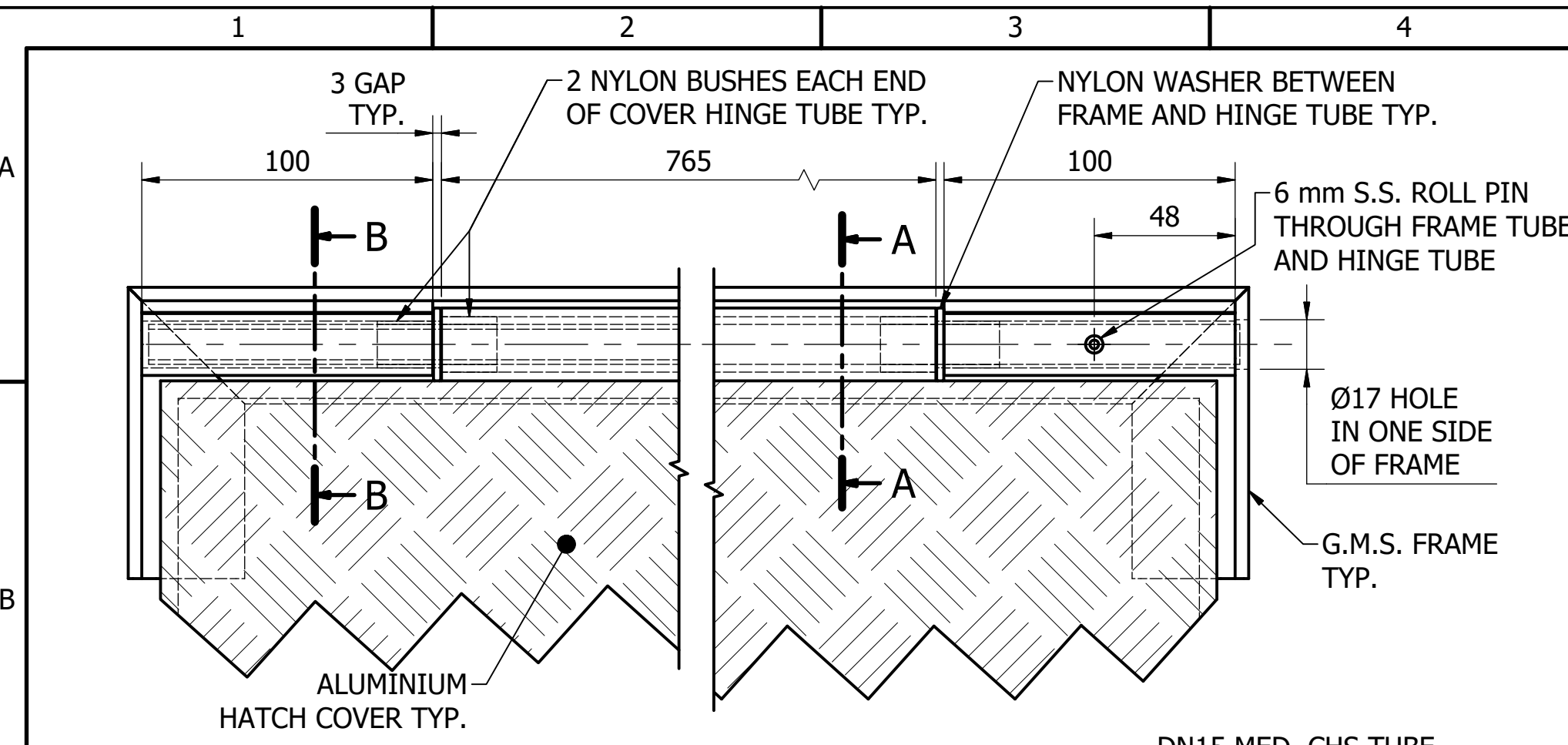
STANDARD DRAWING
ACCESS COVERS - ALUMINIUM, HINGED
HANDLE DETAILS

DRAWING STATUS	
Current	
SD-8251-D	
A1	ISSUE A

ICON WATER ACKNOWLEDGES SYDNEY WATER CORPORATION
IN THE DEVELOPMENT OF PARTS OF THIS DRAWING

ASSET AREA APPLICABILITY

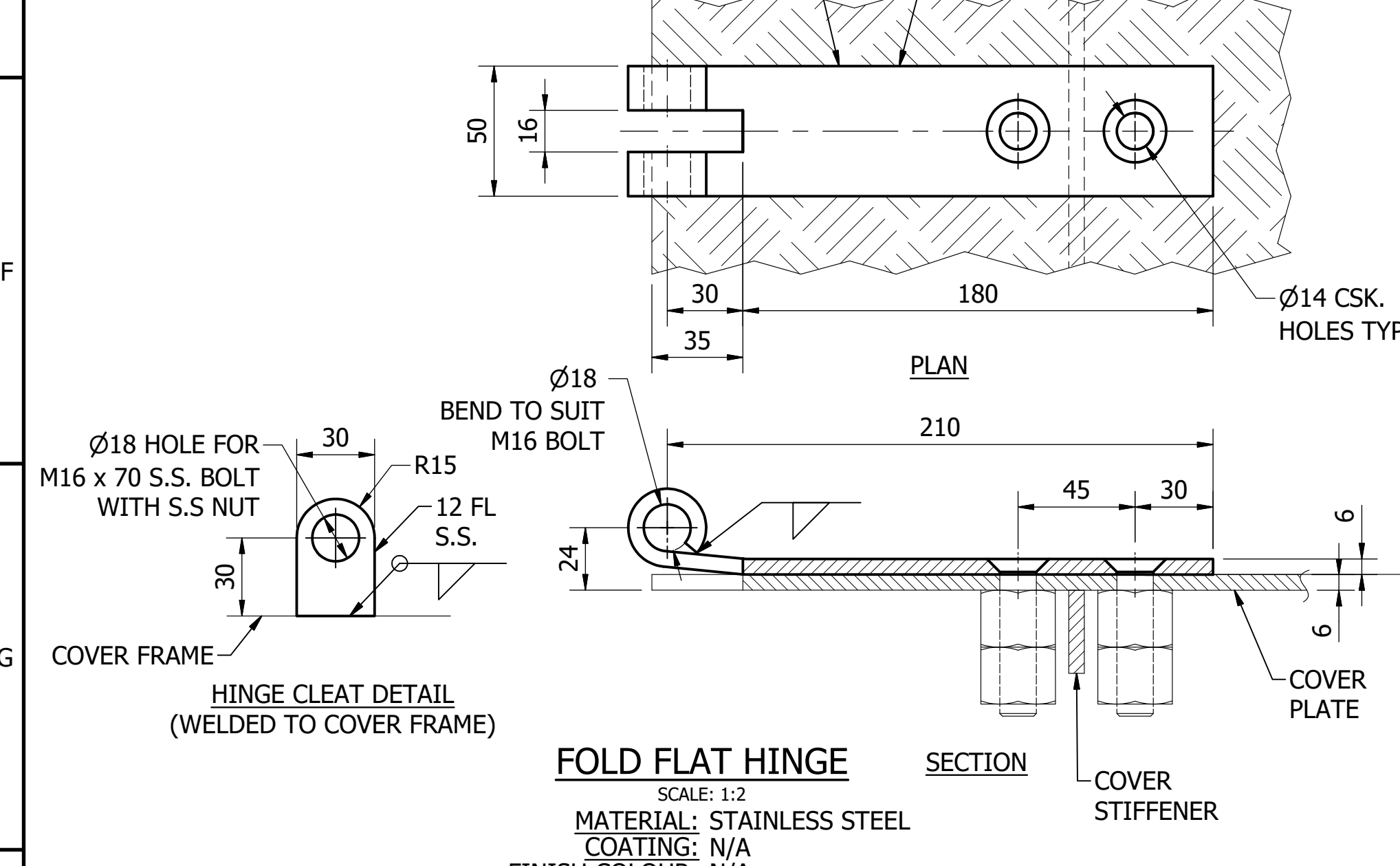
No.	ISSUE	DATE	DRAWN	CHECKED	AUTHORISED
A	INITIAL ISSUE	15/06/2018	M. Matusiak	K. Danenbergsons	D. Eager



FLUSH FIT HINGE
SCALE: 1:2
MATERIAL: AS SHOWN
COATING: N/A
FINISH COLOUR: N/A
MASS: N/A

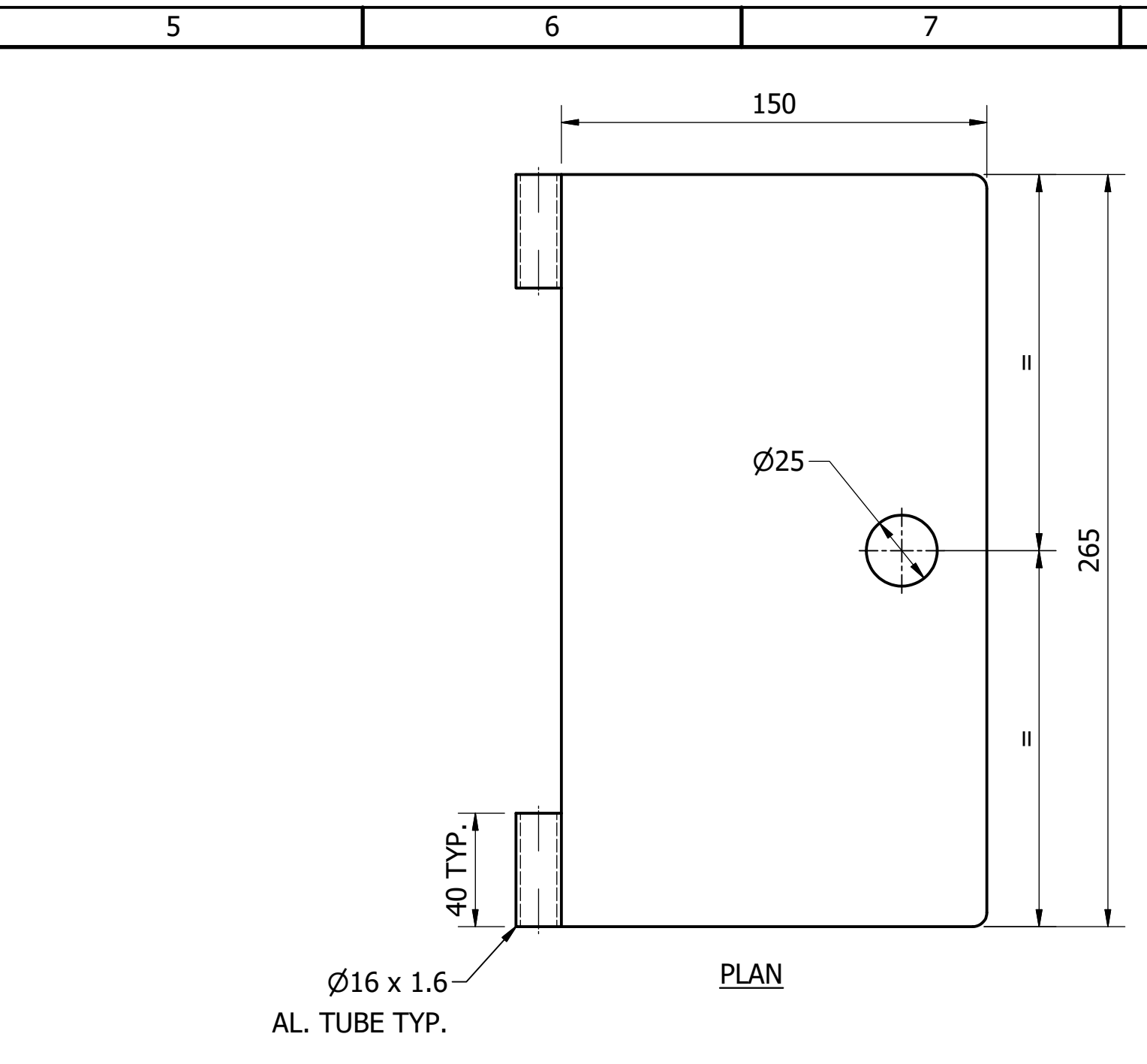
ITEM	AMDT.
PN825301	

50 x 6 FL S.S. GRADE 316L FASTENED TO COVER WITH 2 M12 x 40 LONG CSK. HEAD GRADE 316 BOLTS (NOTE 1)
TREADS UNDER COVER HANDLE TO BE GROUND FLUSH, INSULATION TO BE PROVIDED BETWEEN STAINLESS STEEL AND ALUMINIUM (NOTE 2)



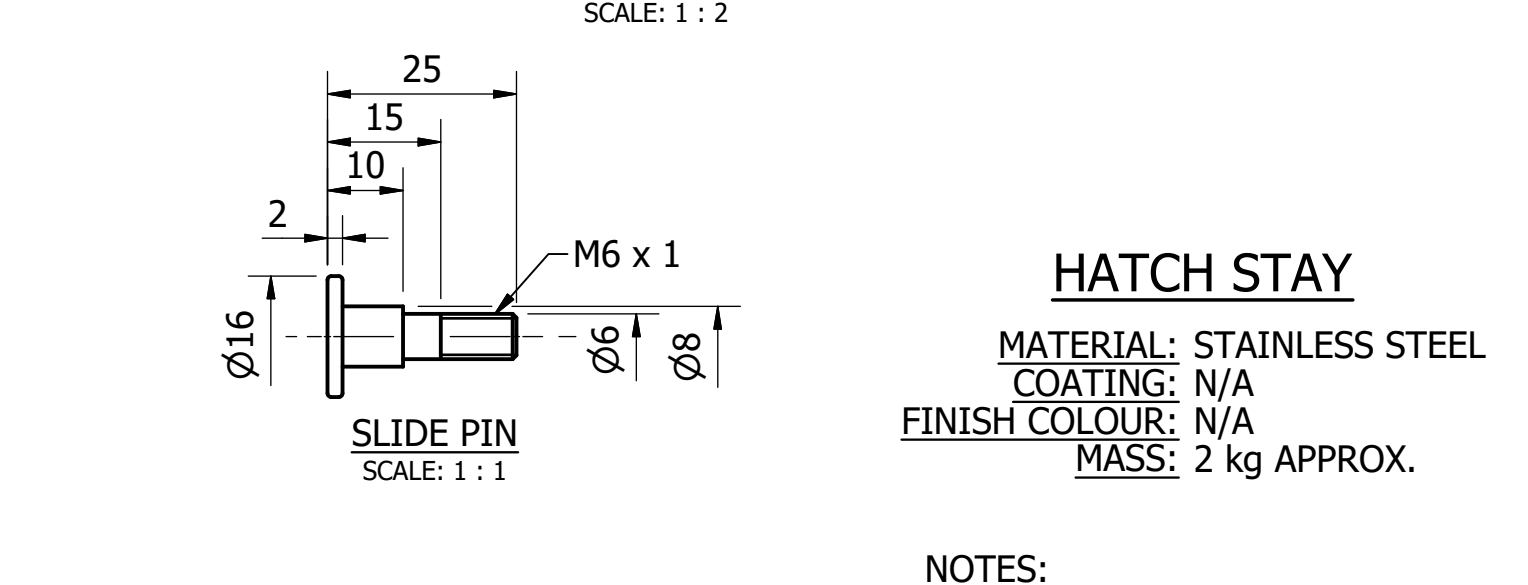
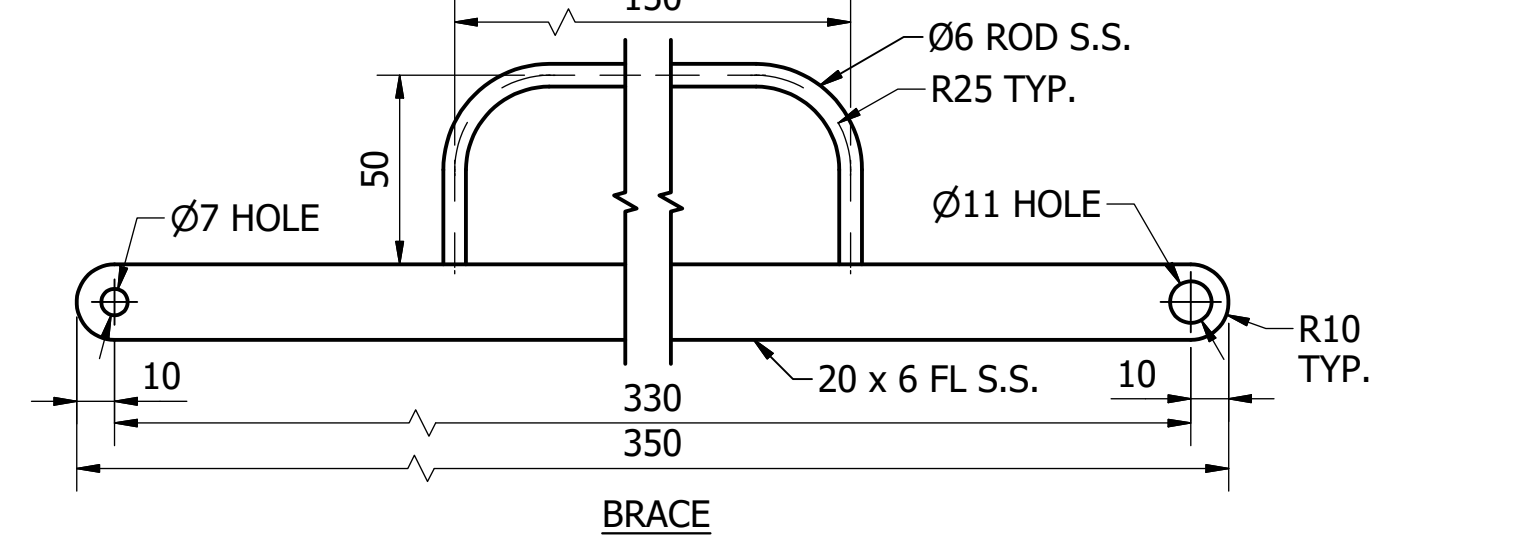
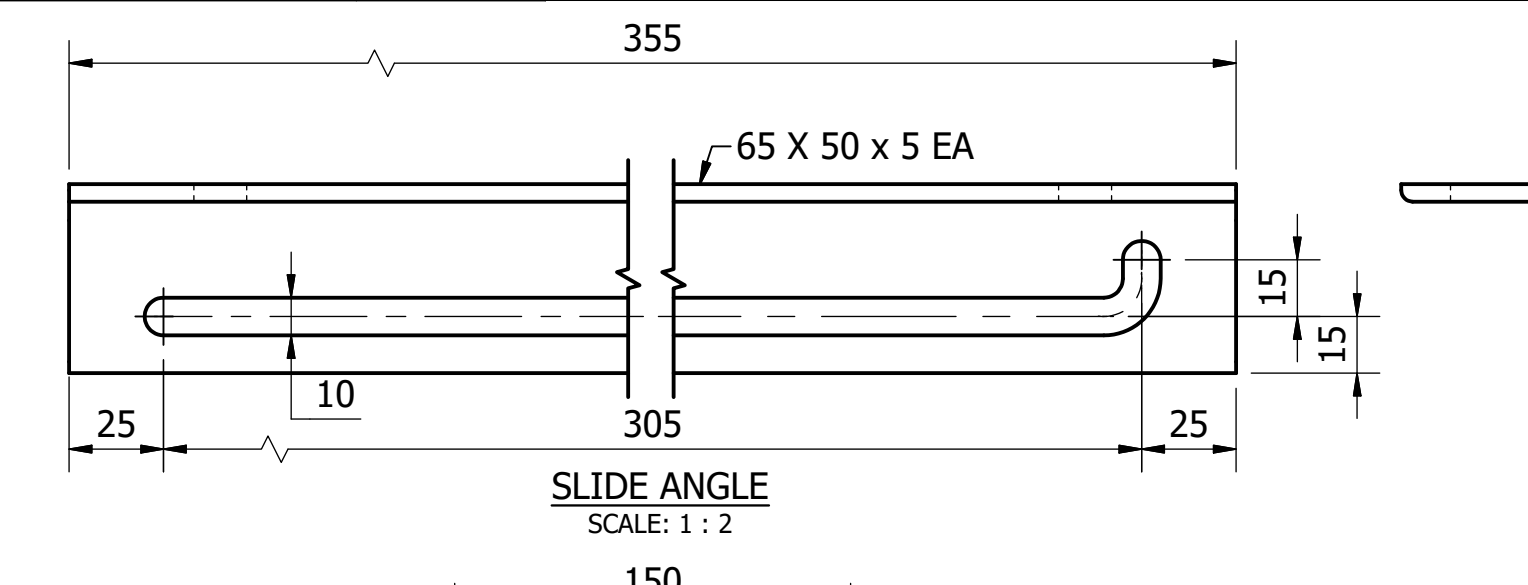
FOLD FLAT HINGE
SCALE: 1:2
MATERIAL: STAINLESS STEEL
COATING: N/A
FINISH COLOUR: N/A
MASS: 1 kg

ITEM	AMDT.
PN825304	



STANCHION ACCESS HATCH
SCALE: 1:2
MATERIAL: ALUMINIUM
COATING: N/A
FINISH COLOUR: N/A
MASS: 1 kg

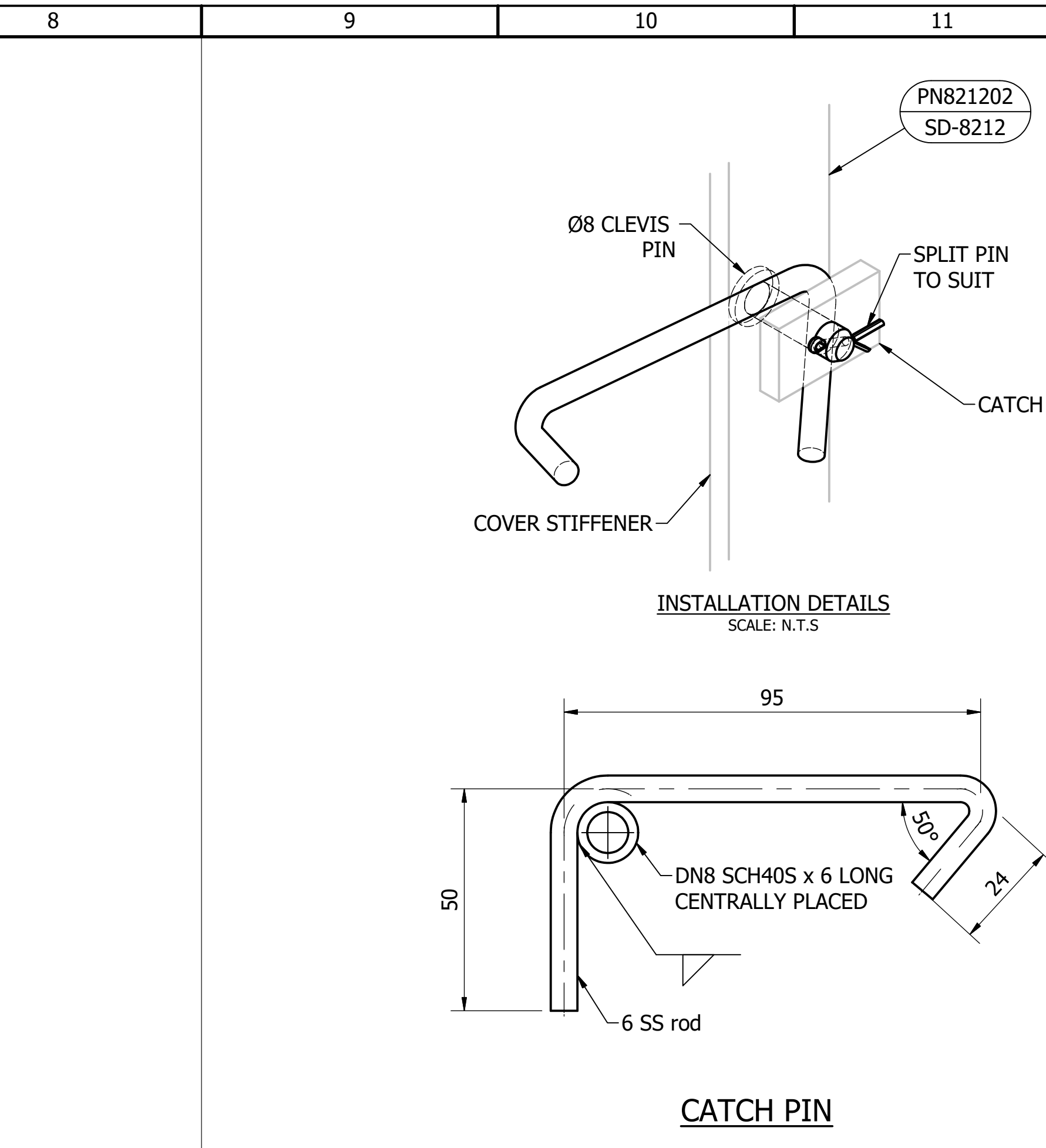
ITEM	AMDT.
PN825302	



HATCH STAY
MATERIAL: STAINLESS STEEL
COATING: N/A
FINISH COLOUR: N/A
MASS: 2 kg APPROX.

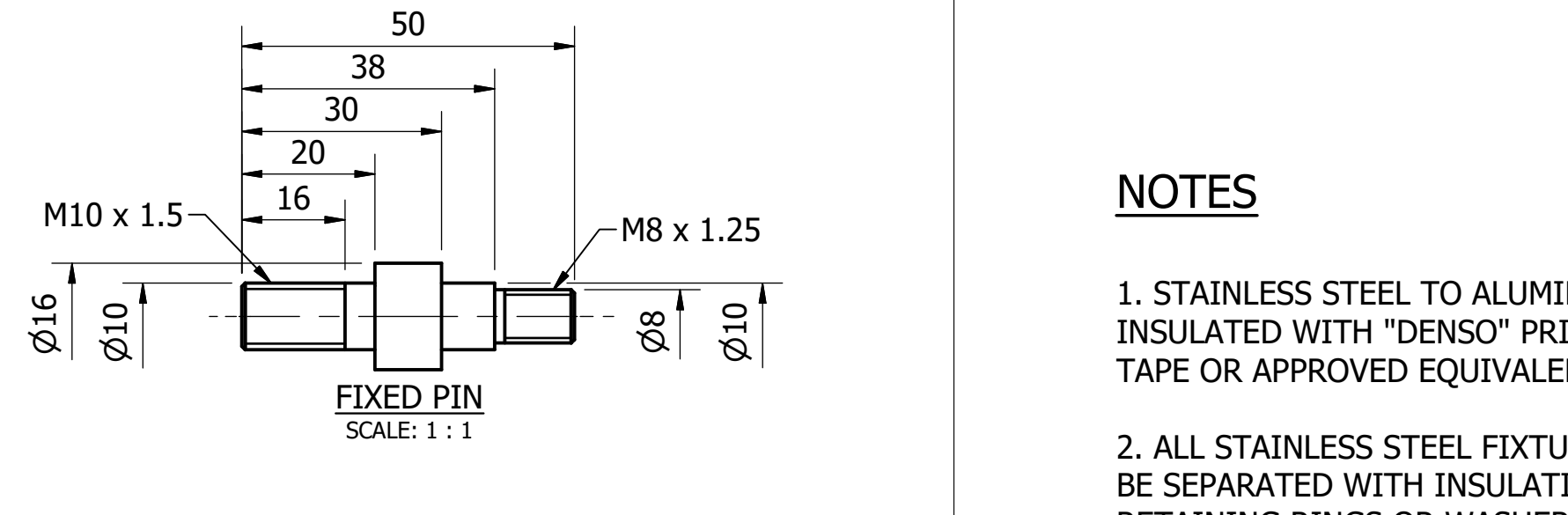
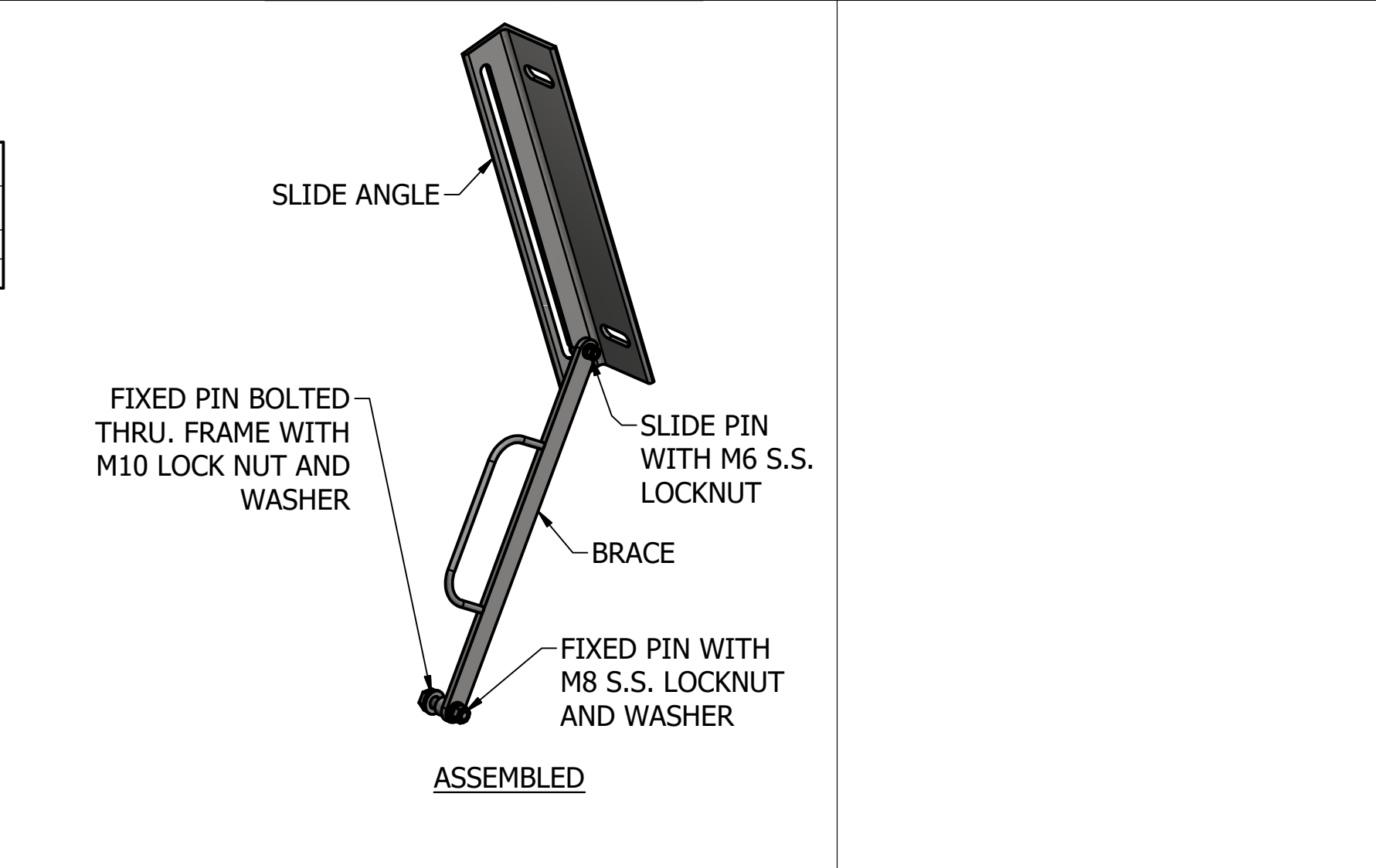
ITEM	AMDT.
PN825305	

NOTES:
1. HOLE PATTERN TO AVOID GRATING



CATCH PIN
SCALE: 1:1
MATERIAL: STAINLESS STEEL
COATING: N/A
FINISH COLOUR: N/A
MASS: <1 kg

ITEM	AMDT.
PN825303	



FIXED PIN
SCALE: 1:1

NOTES
1. STAINLESS STEEL TO ALUMINIUM CONNECTIONS TO BE INSULATED WITH "DENSO" PRIMER D AND DENSOPOL 60 TAPE OR APPROVED EQUIVALENT.
2. ALL STAINLESS STEEL FIXTURES INTO ALUMINIUM TO BE SEPARATED WITH INSULATING BUSHES AND RETAINING RINGS OR WASHERS.

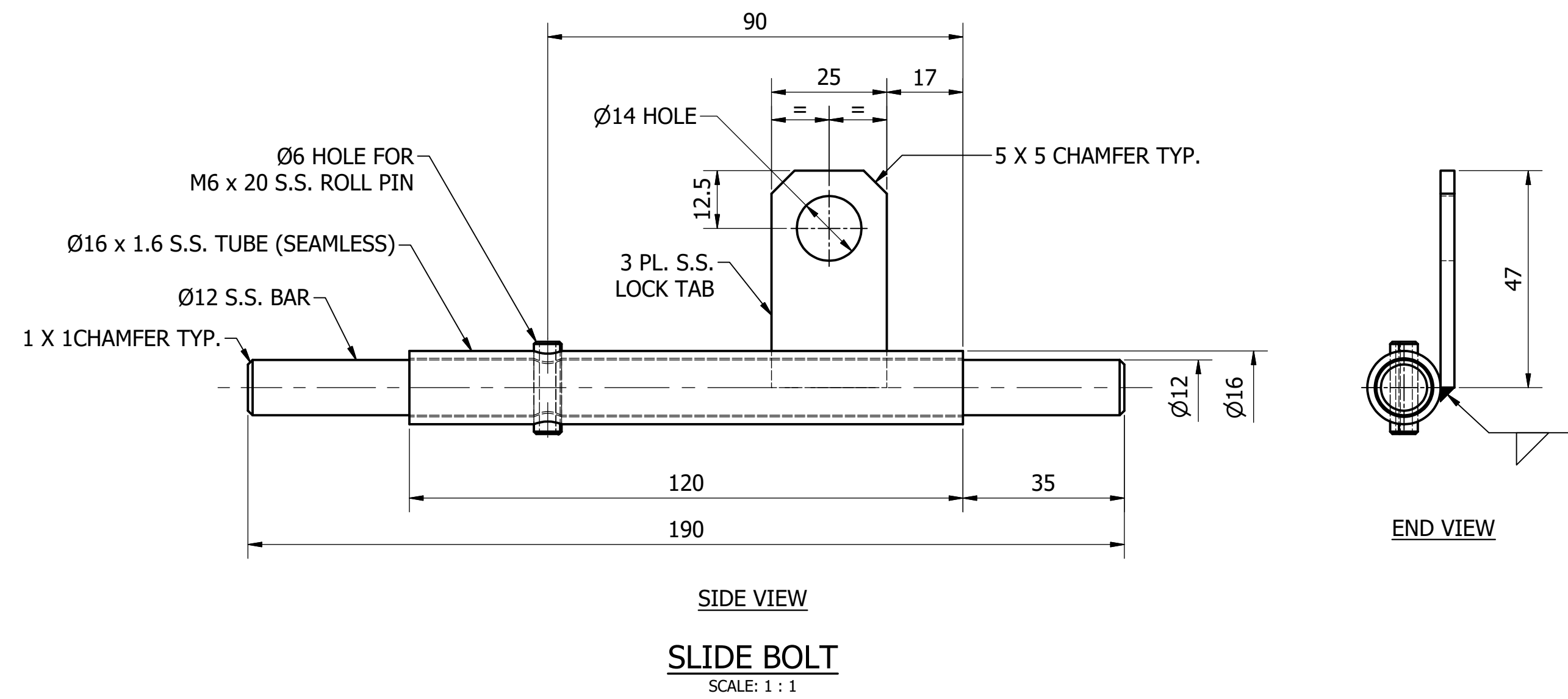
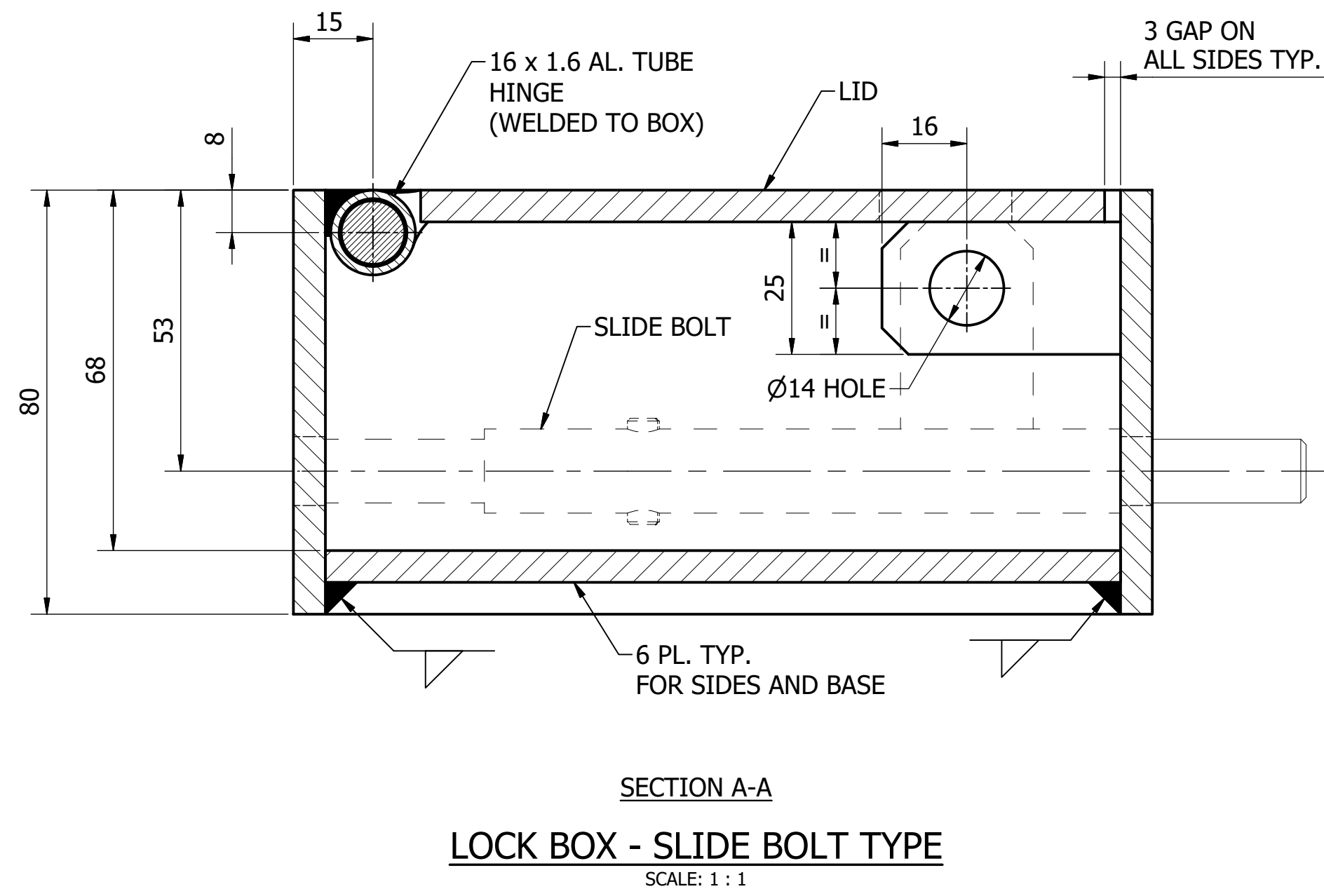
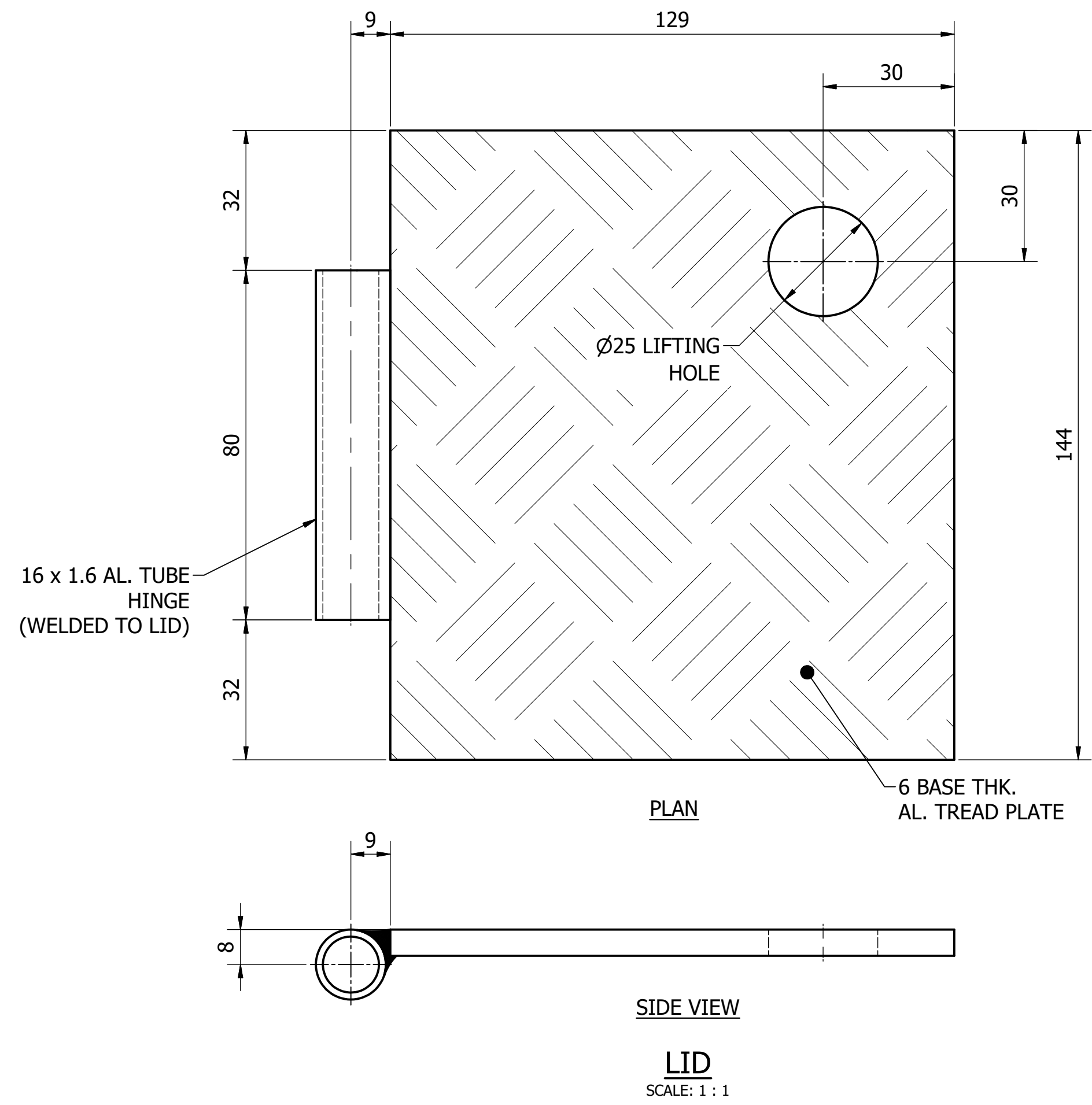
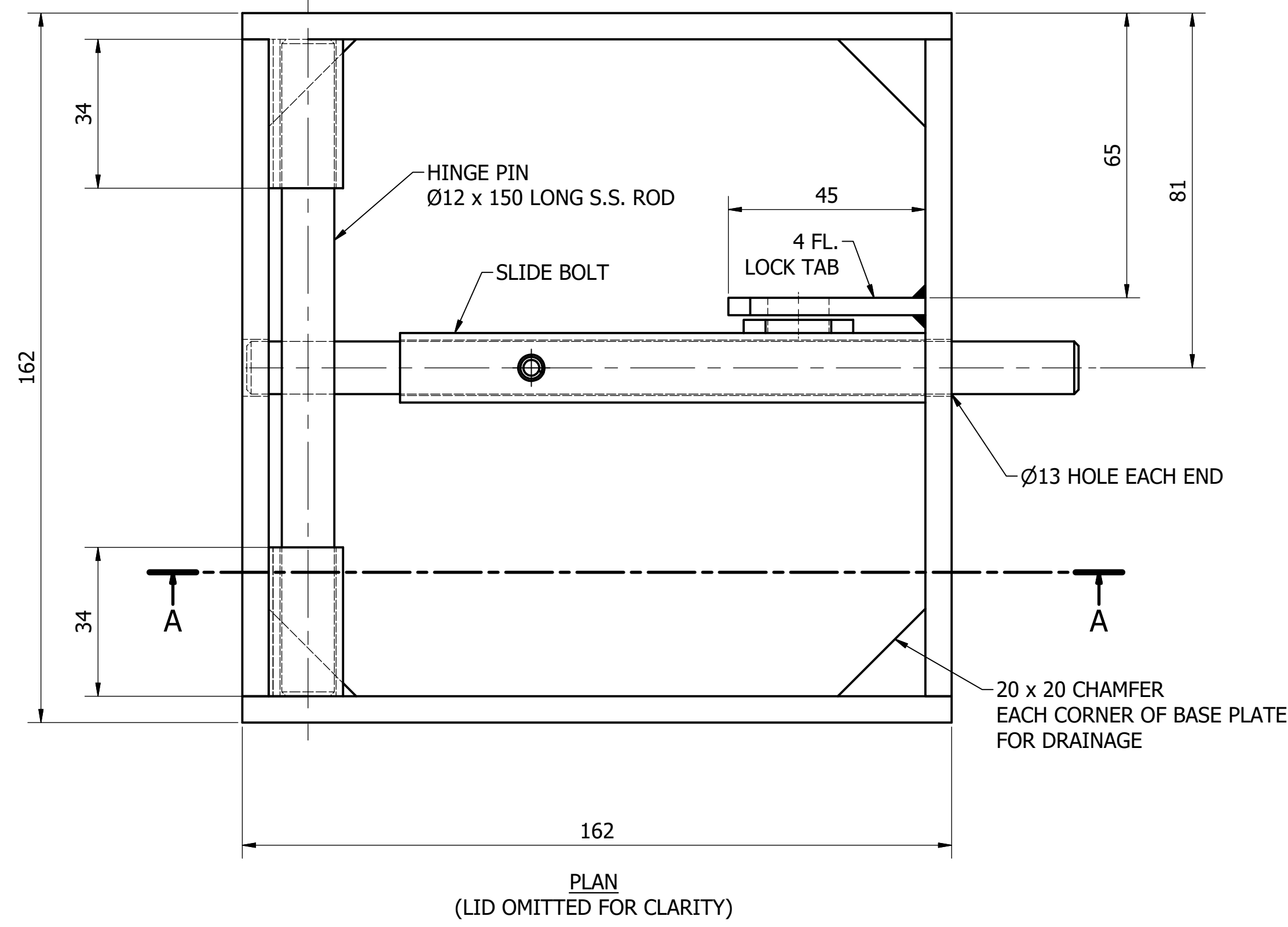
No.	ISSUE	DATE	DRAWN	CHECKED	AUTHORISED
A	INITIAL ISSUE	15/06/2018	M. Matusiak	K. Danenbergson	D. Eager

DAM	RES	SPS
X	X	X
BWS	WAT	STP
X	X	X
WTP	SEW	
X	X	
WPS	REC	
X	X	

ICON WATER ACKNOWLEDGES SYDNEY WATER CORPORATION IN THE DEVELOPMENT OF PARTS OF THIS DRAWING

STANDARD DRAWING
ACCESS COVERS - ALUMINIUM, HINGED
HINGE AND STAY DETAILS

DRAWING STATUS	Current
SD-8253-D	ISSUE A
A1	© Icon Water 2017



NOTES:

- FOR ALUMINIUM FABRICATION NOTES REFER TO DRAWING SD-9103.
- LID AND HINGE TO BE ASSEMBLED PRIOR TO WELDING TO LOCK BOX.

MATERIAL: ALUMINIUM (U.N.O.)
COATING: N/A
FINISH COLOUR: N/A
MASS: 2 kg

ITEM	AMDT.
PN825501	

No.	ISSUE	DATE	DRAWN	CHECKED	AUTHORISED
A	INITIAL ISSUE	15/06/2018	M. Matuziak	K. Danenbergson	D. Eager

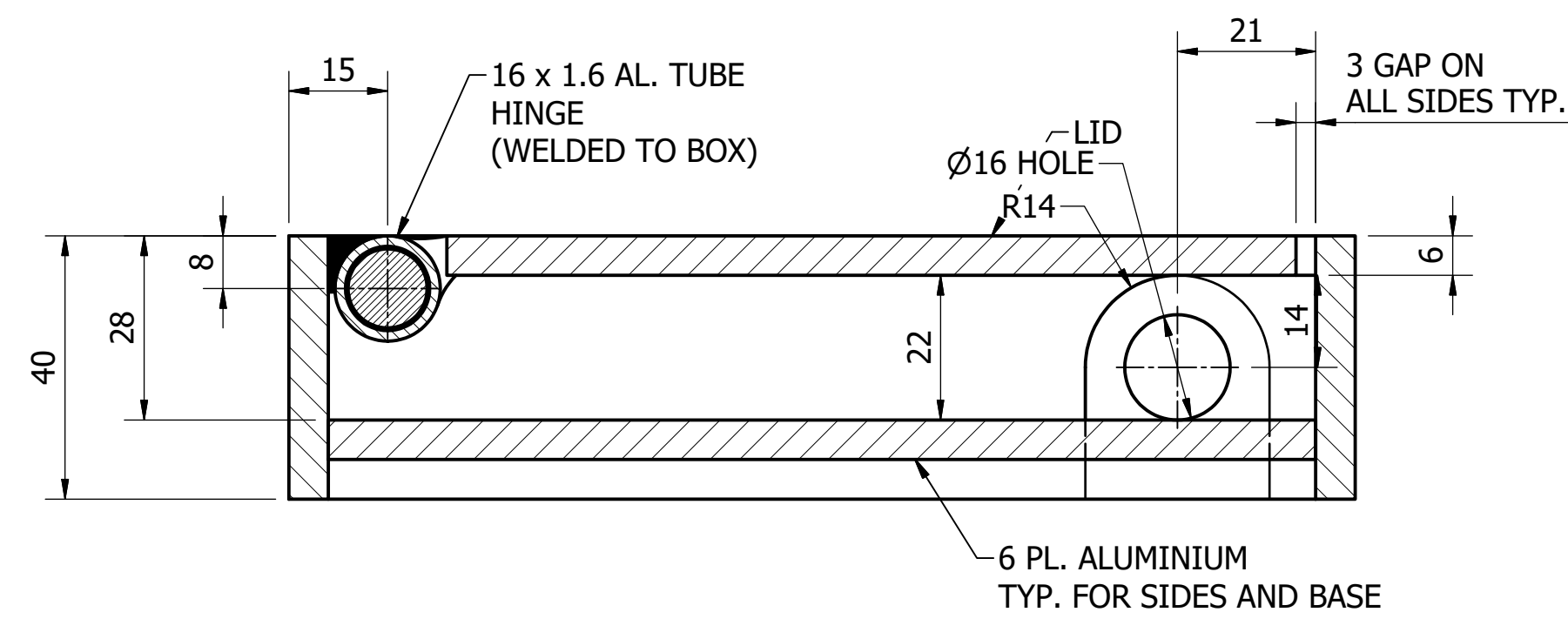
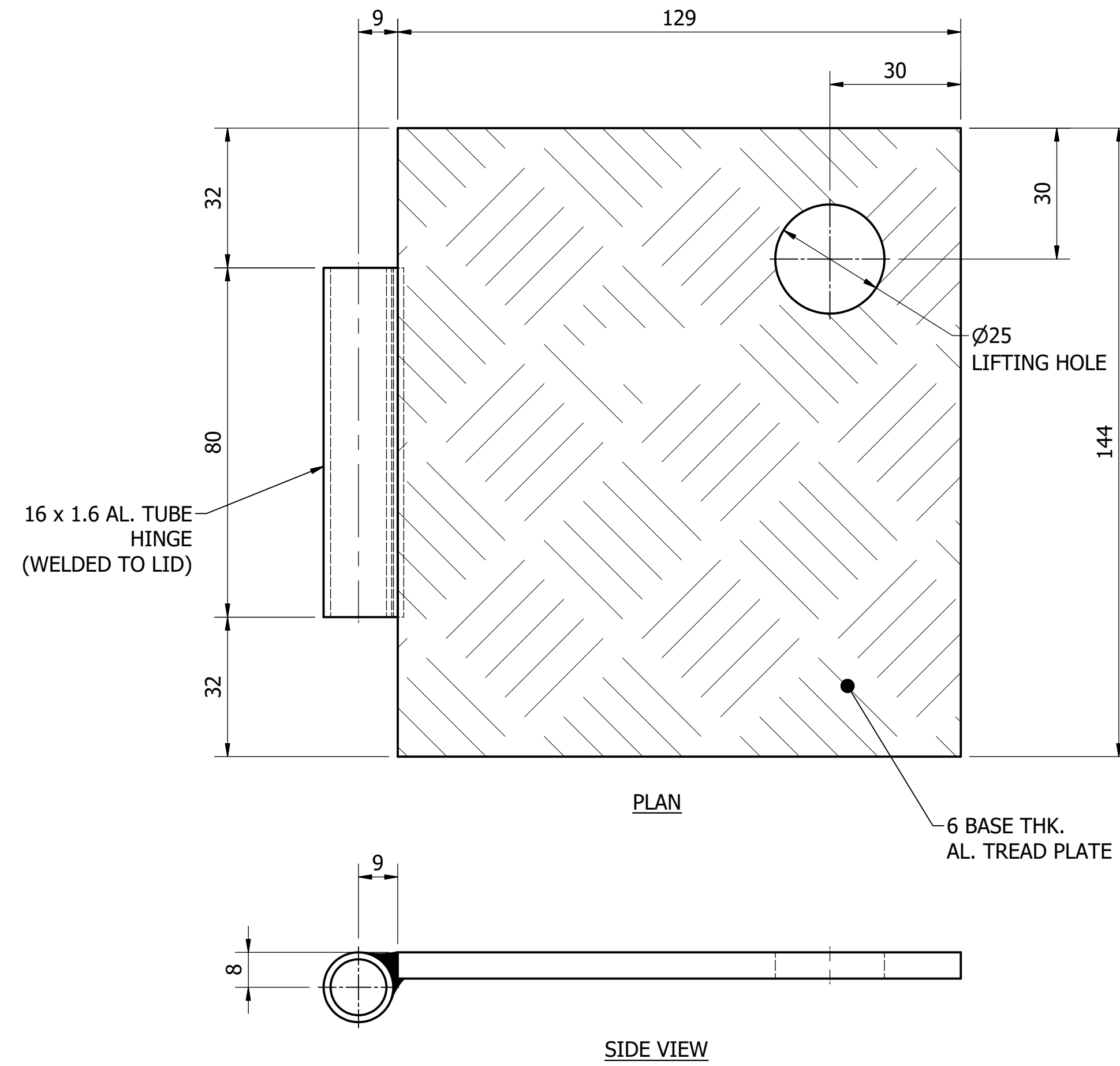
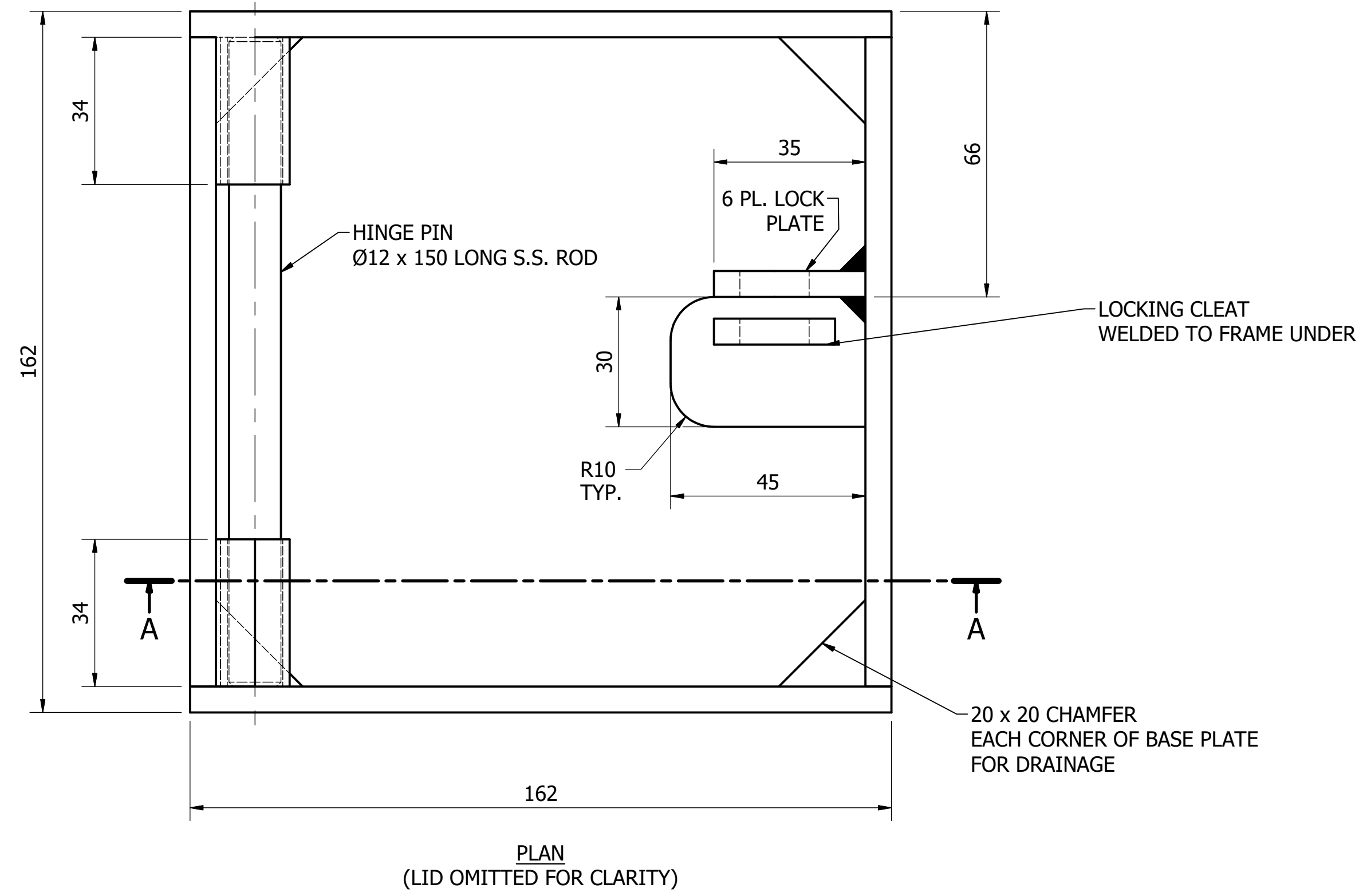
DAM	RES	SPS
BWS	WAT	STP
WTP	SEW	
WPS	REC	

ASSET AREA APPLICABILITY



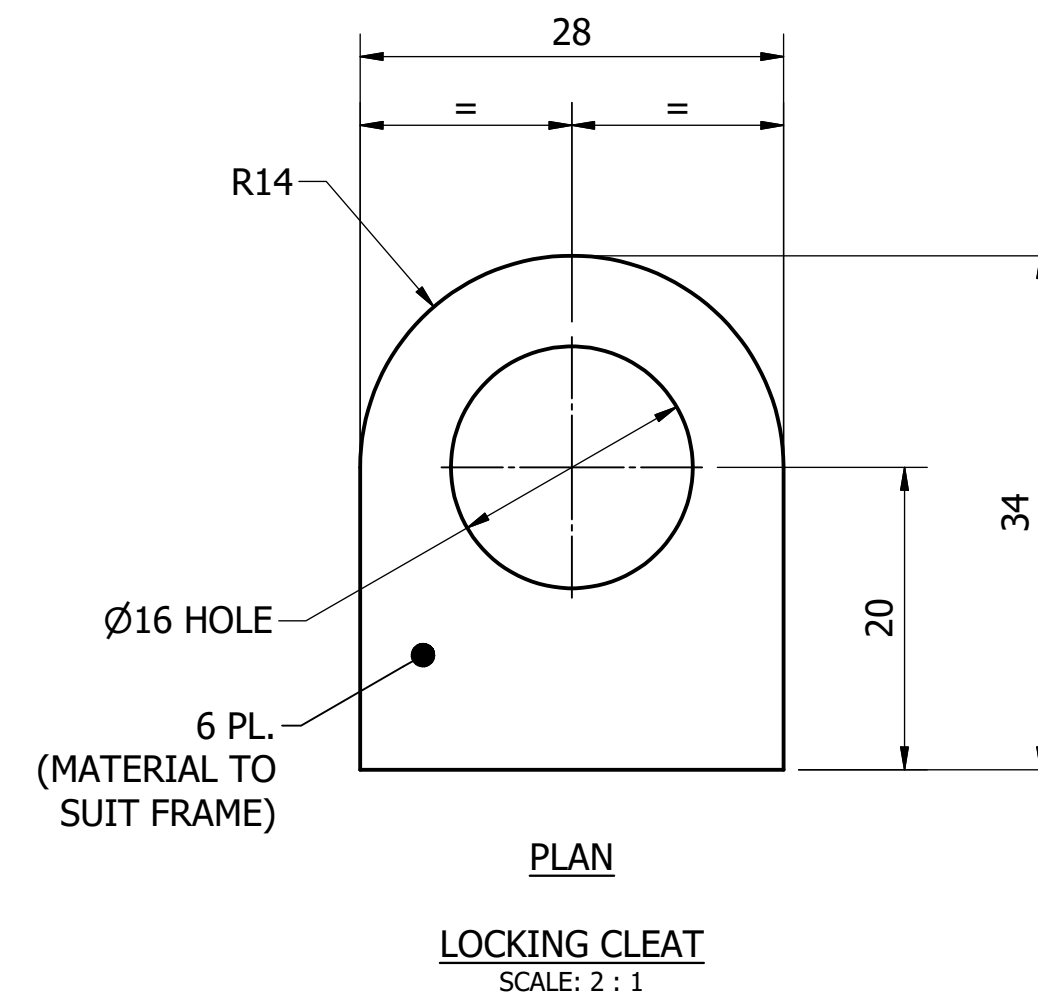
STANDARD DRAWING
ACCESS COVERS - ALUMINIUM, HINGED
LOCK BOX - SLIDE BOLT STYLE
DETAILS

DRAWING STATUS	
Current	
SD-8255-D	
A1	ISSUE A



LOCK BOX - LOCKING PLATE STYLE
SCALE: 1 : 1

MATERIAL: ALUMINIUM (U.N.O.)
COATING: N/A
FINISH COLOUR: N/A
MASS: 1.5 kg



NOTES:

- FOR ALUMINIUM FABRICATION NOTES REFER TO DRAWING SD-9103.
- LID AND HINGE TO BE ASSEMBLED PRIOR TO WELDING TO LOCK BOX.

ITEM	AMDT.
PN825601	

No.	ISSUE	DATE	DRAWN	CHECKED	AUTHORISED
A	INITIAL ISSUE	15/06/2018	M. Matusiak	K. Danenbergsons	D. Eager

DAM	RES	SPS
BWS	WAT	STP
WTP	SEW	
WPS	REC	

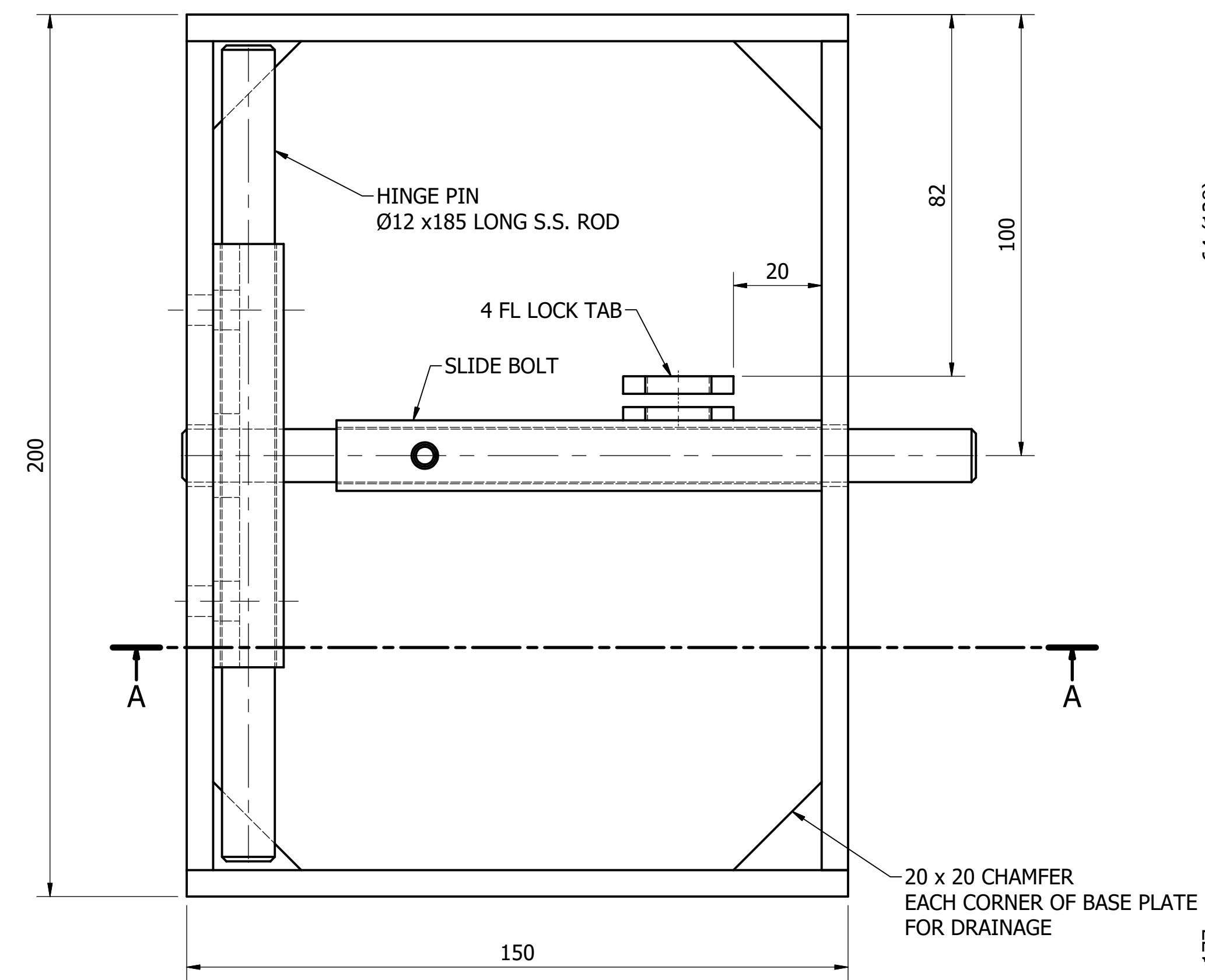
ASSET AREA APPLICABILITY



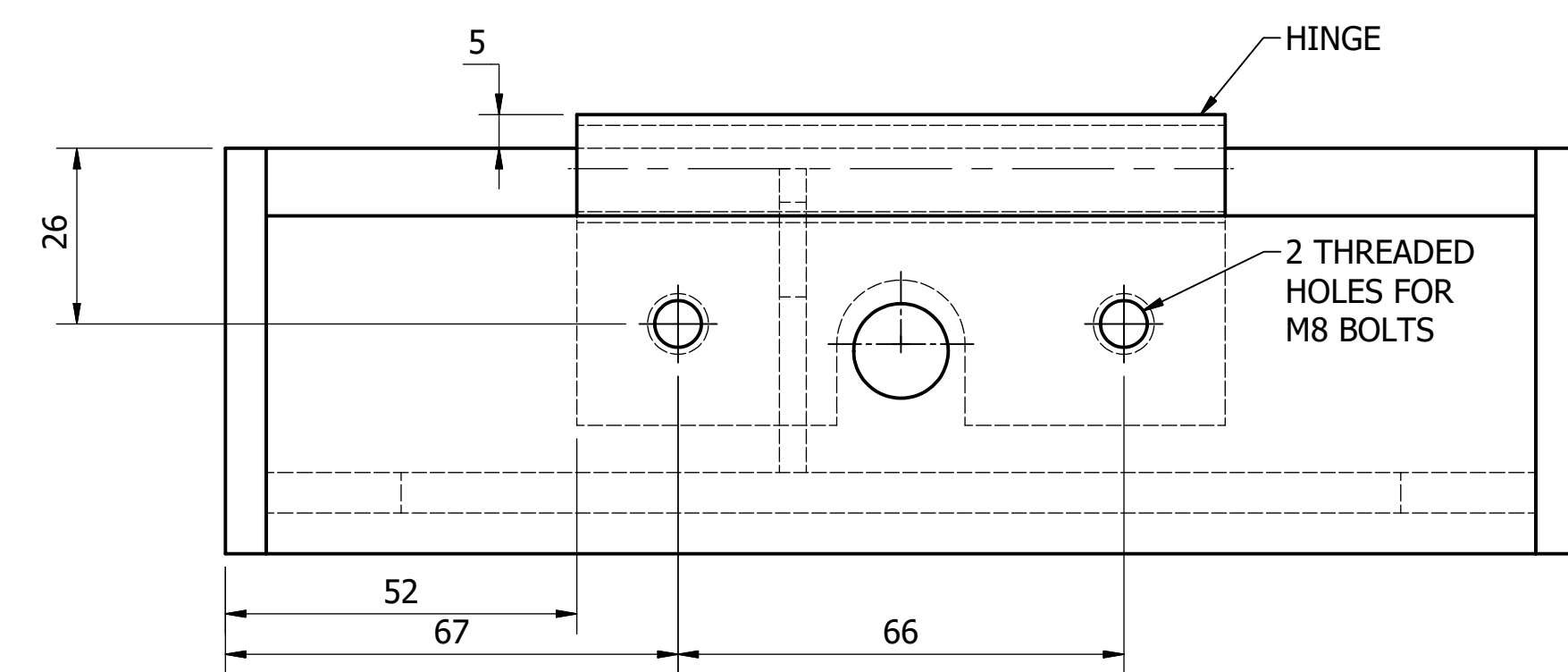
STANDARD DRAWING
ACCESS COVERS - ALUMINIUM, HINGED
LOCK BOX - LOCKING PLATE STYLE
DETAILS

DRAWING STATUS	
Current	
SD-8256-D	
A1	ISSUE A

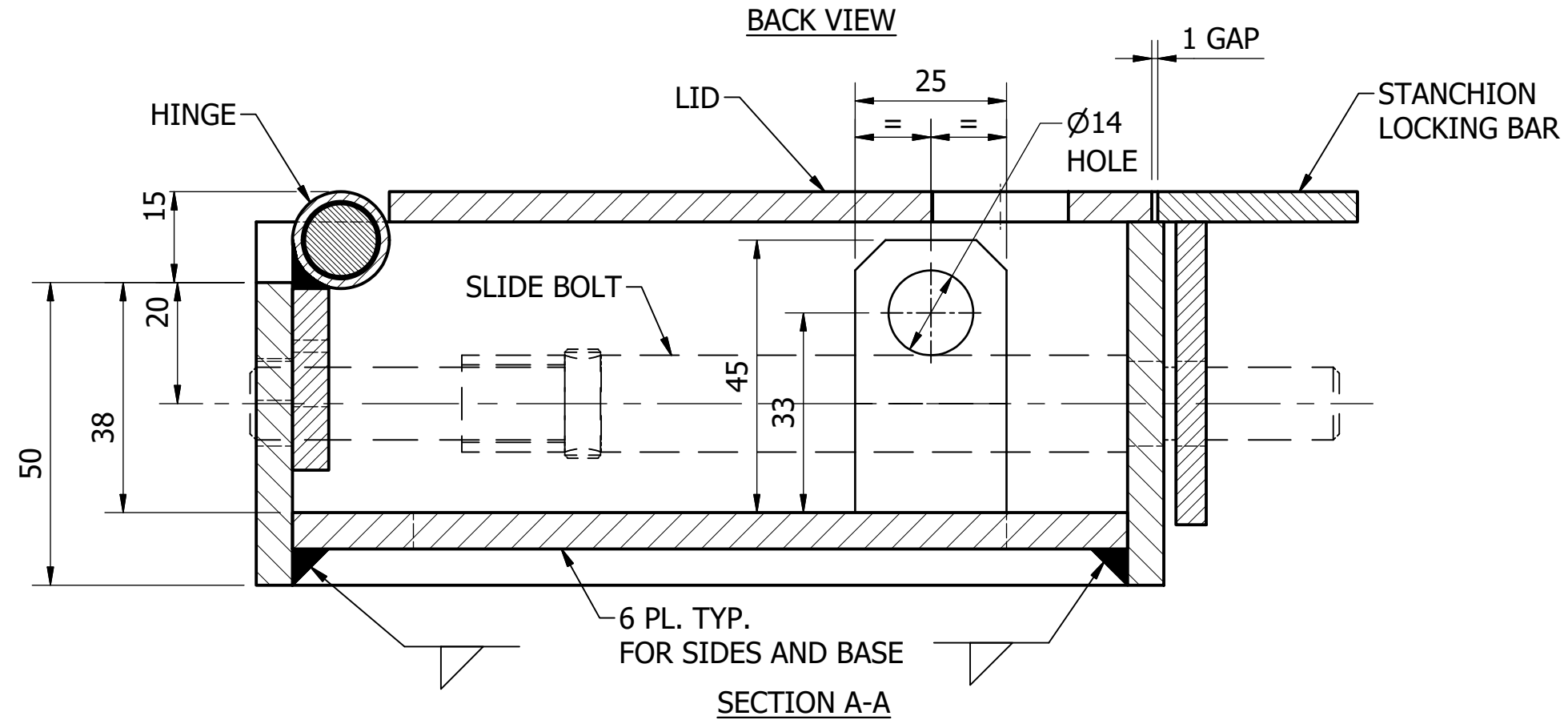
© Icon Water 2017



PLAN
(LOCKING BAR AND LID OMITTED FOR CLARITY)



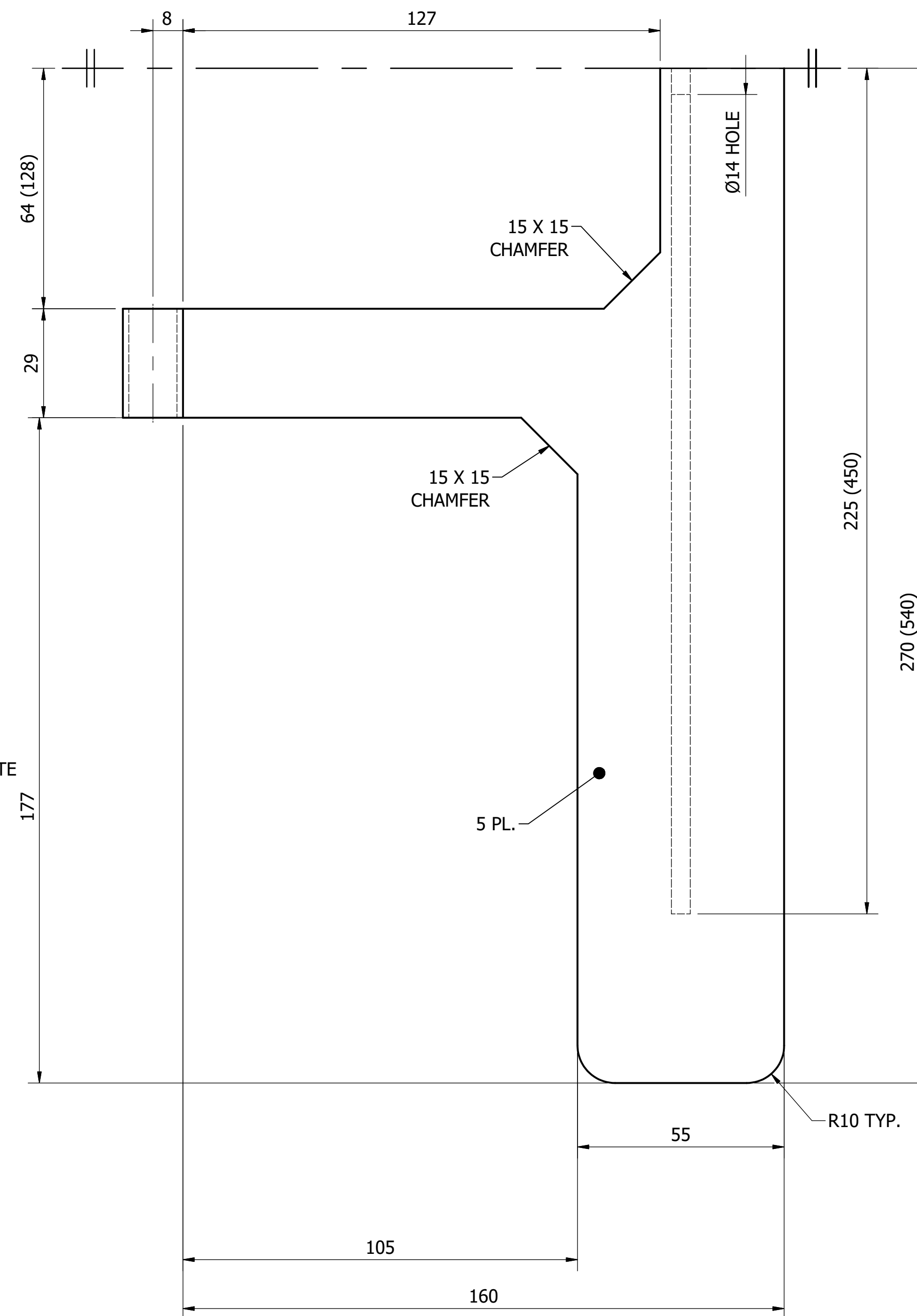
BACK VIEW



LOCK BOX - STANCHION LOCKING BAR TYPE

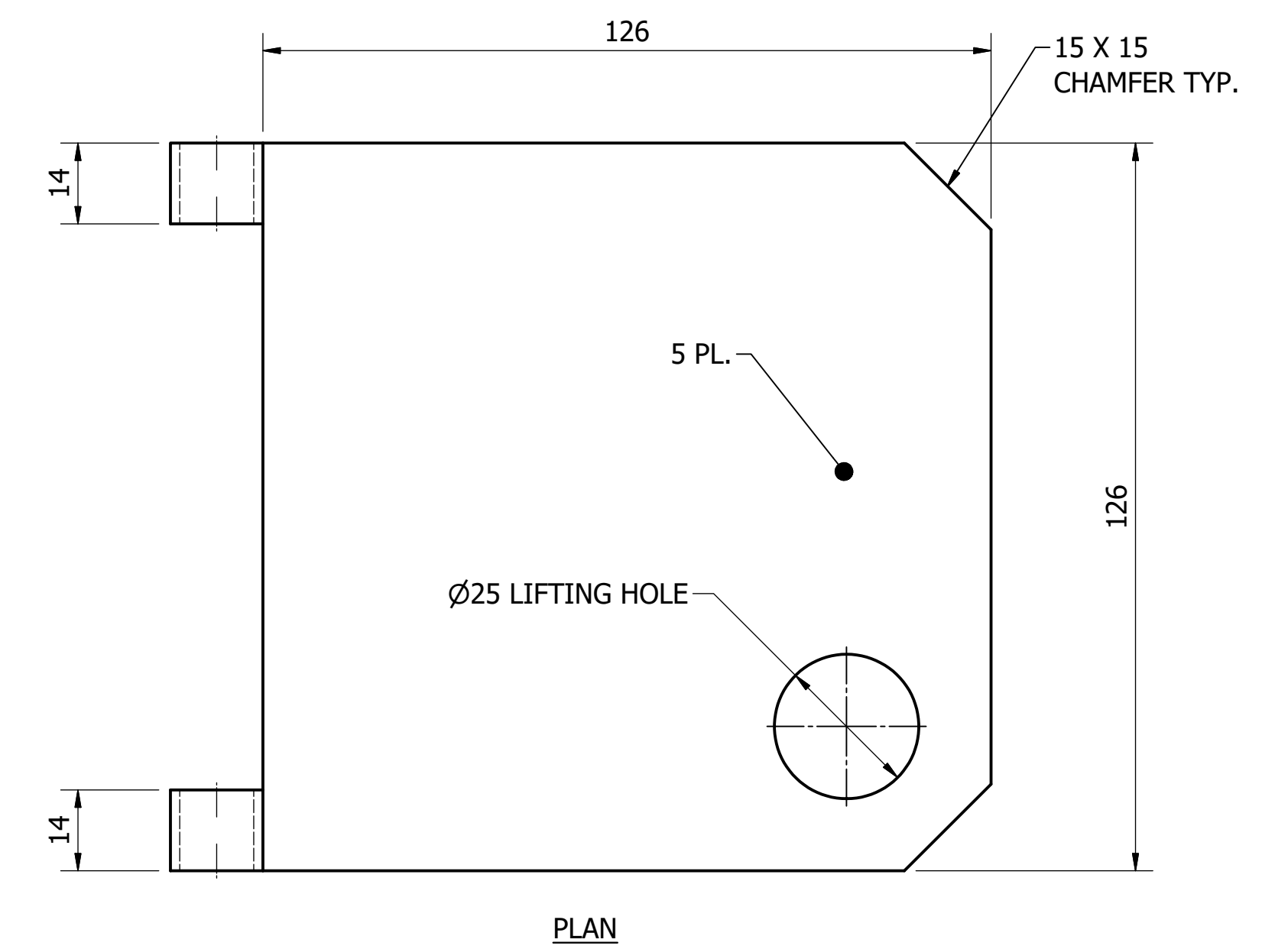
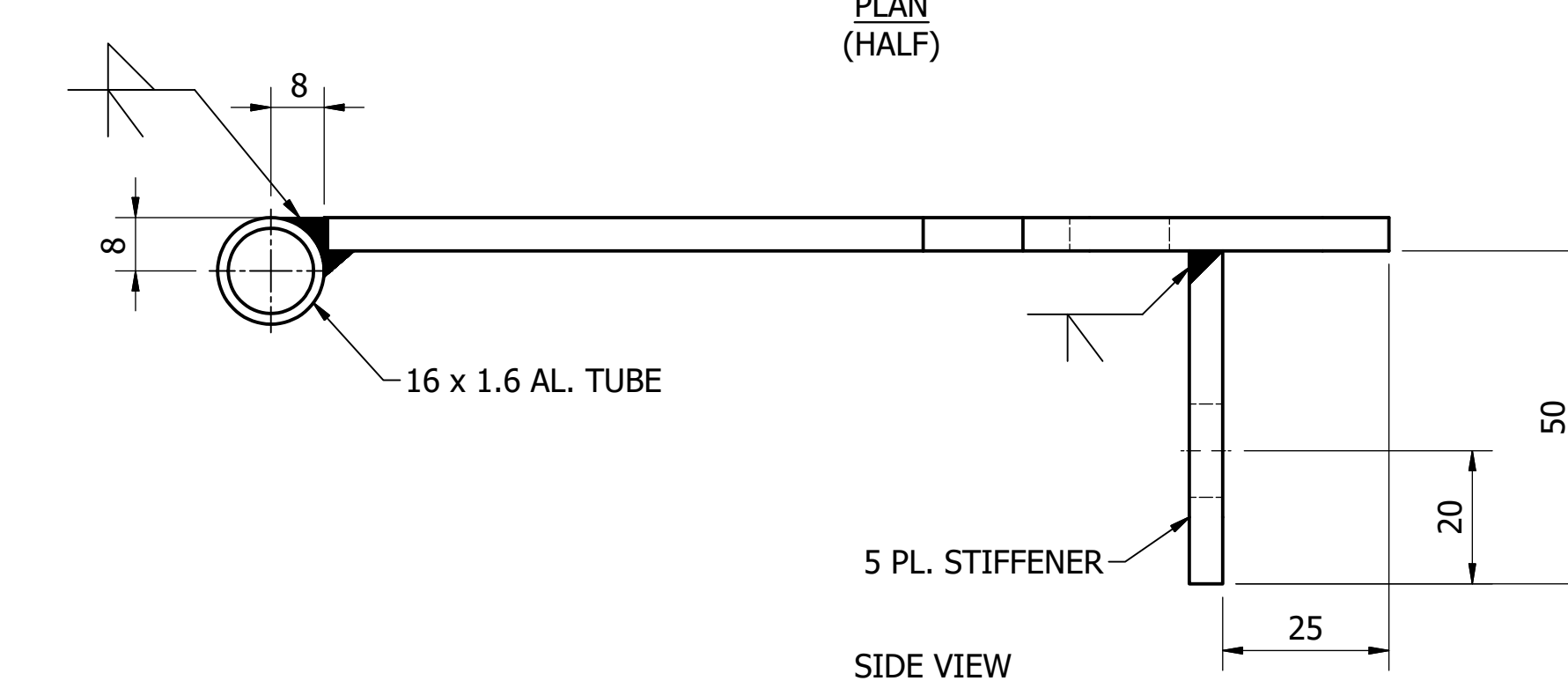
SCALE: 1 : 1

MATERIAL: ALUMINIUM / STAINLESS STEEL
COATING: N/A
FINISH COLOUR: N/A
MASS: 2.5 kg

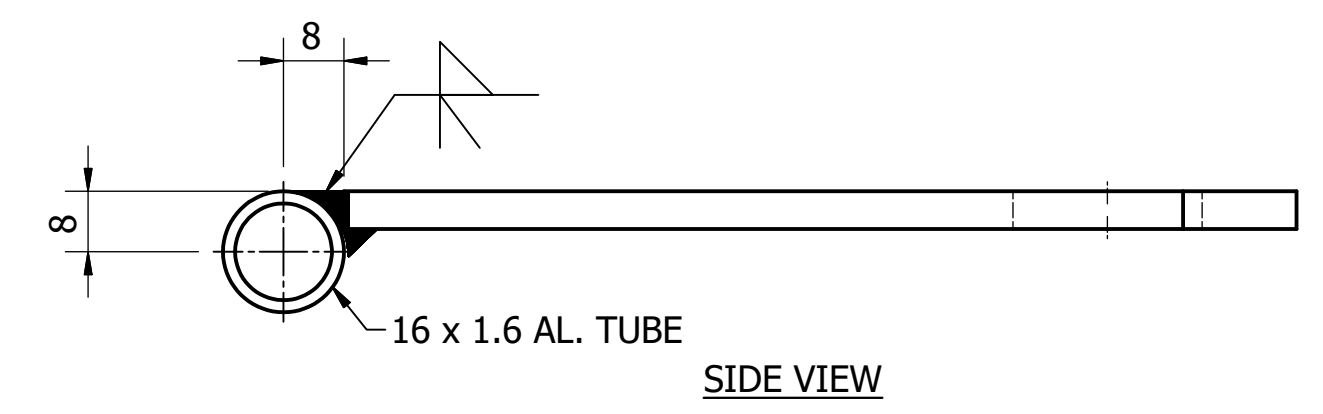


STANCHION LOCKING BAR

SCALE: 1 : 1



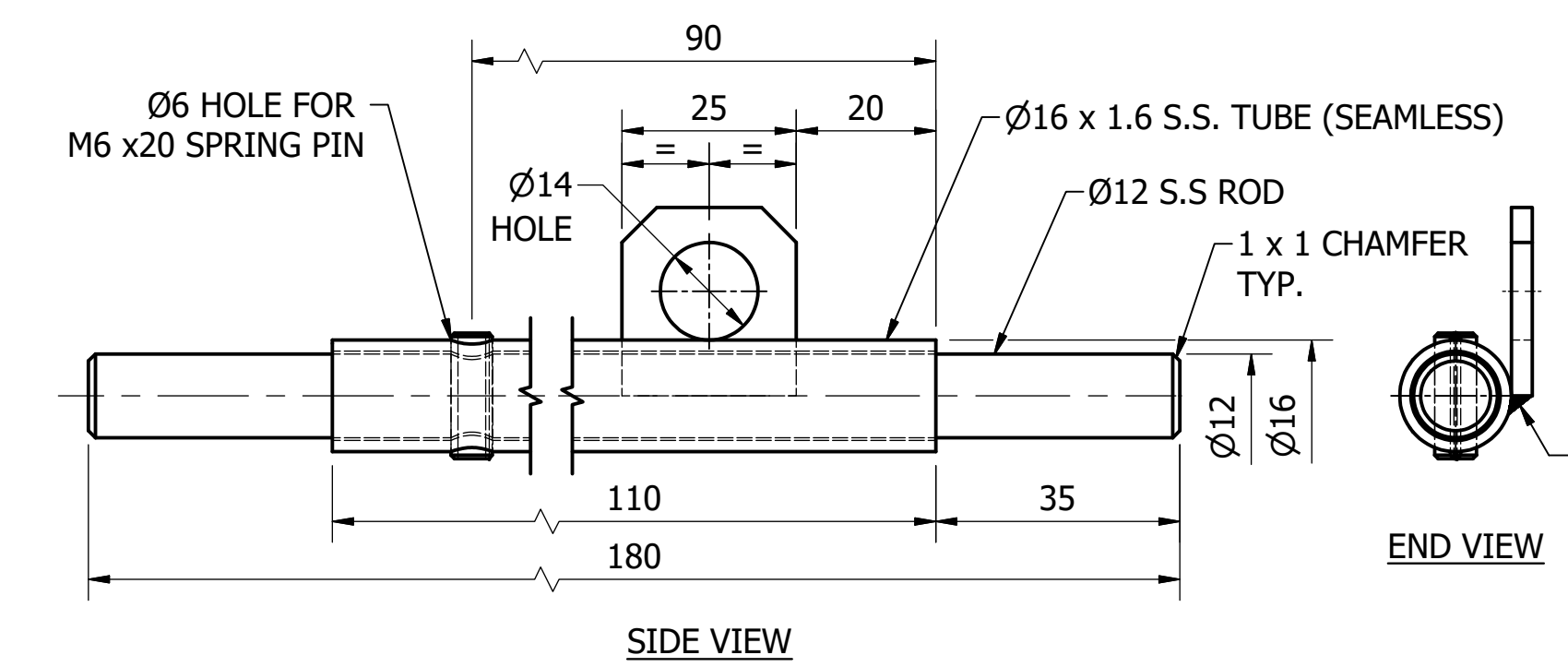
PLAN



SIDE VIEW

LID

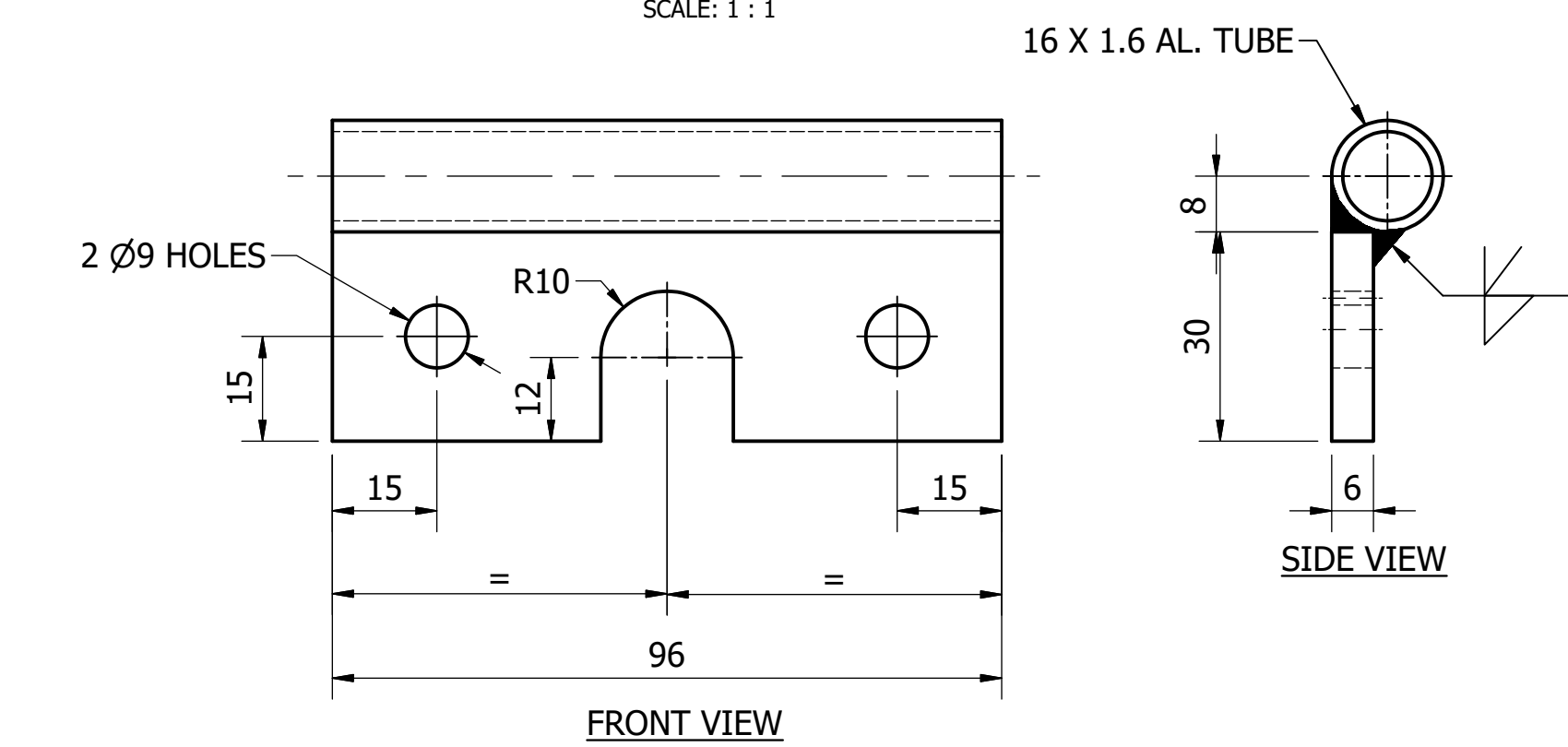
SCALE: 1 : 1



SIDE VIEW

SLIDE BOLT

SCALE: 1 : 1



FRONT VIEW

HINGE

SCALE: 1 : 1

ITEM	AMDT.
PN825701	

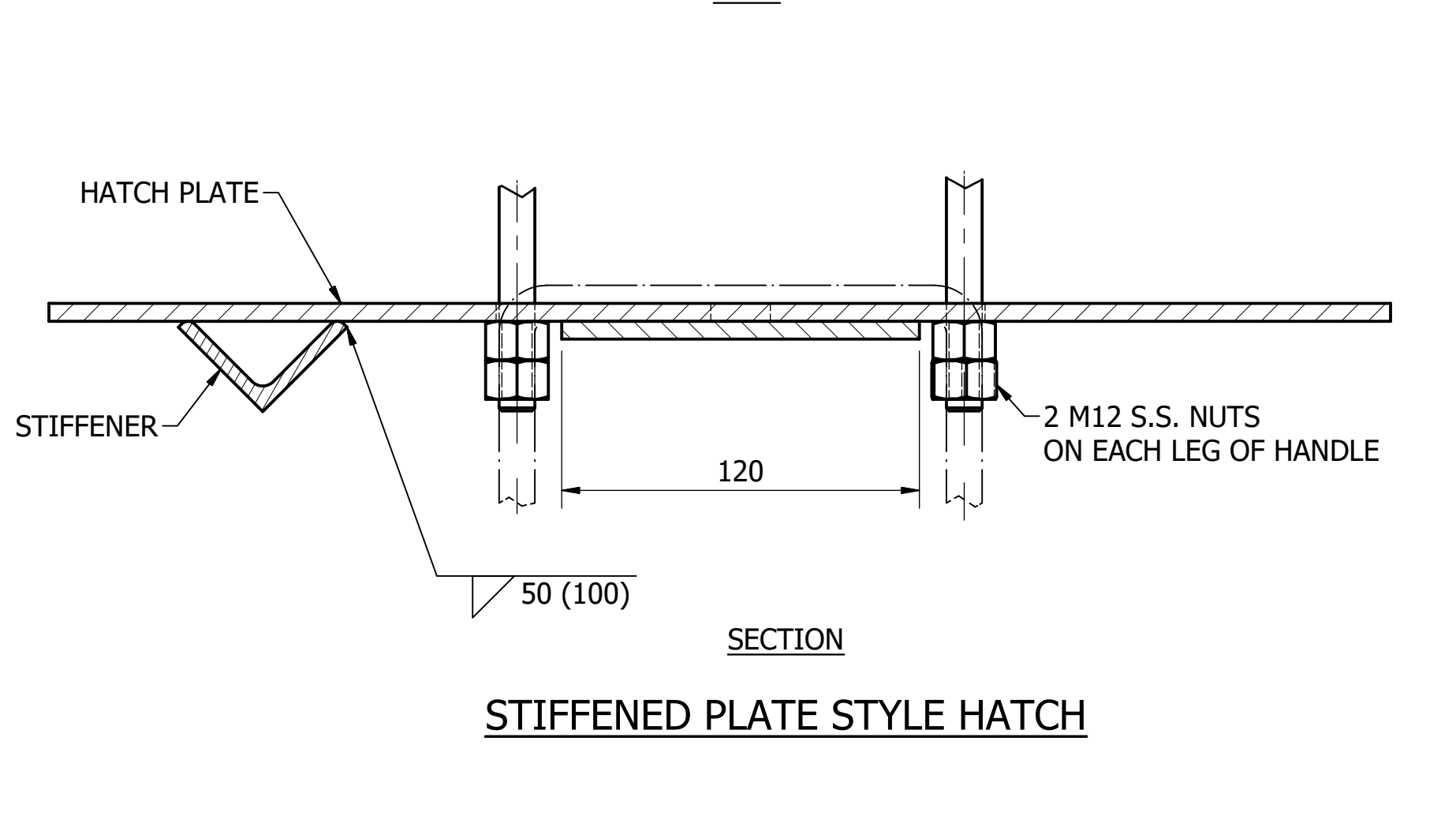
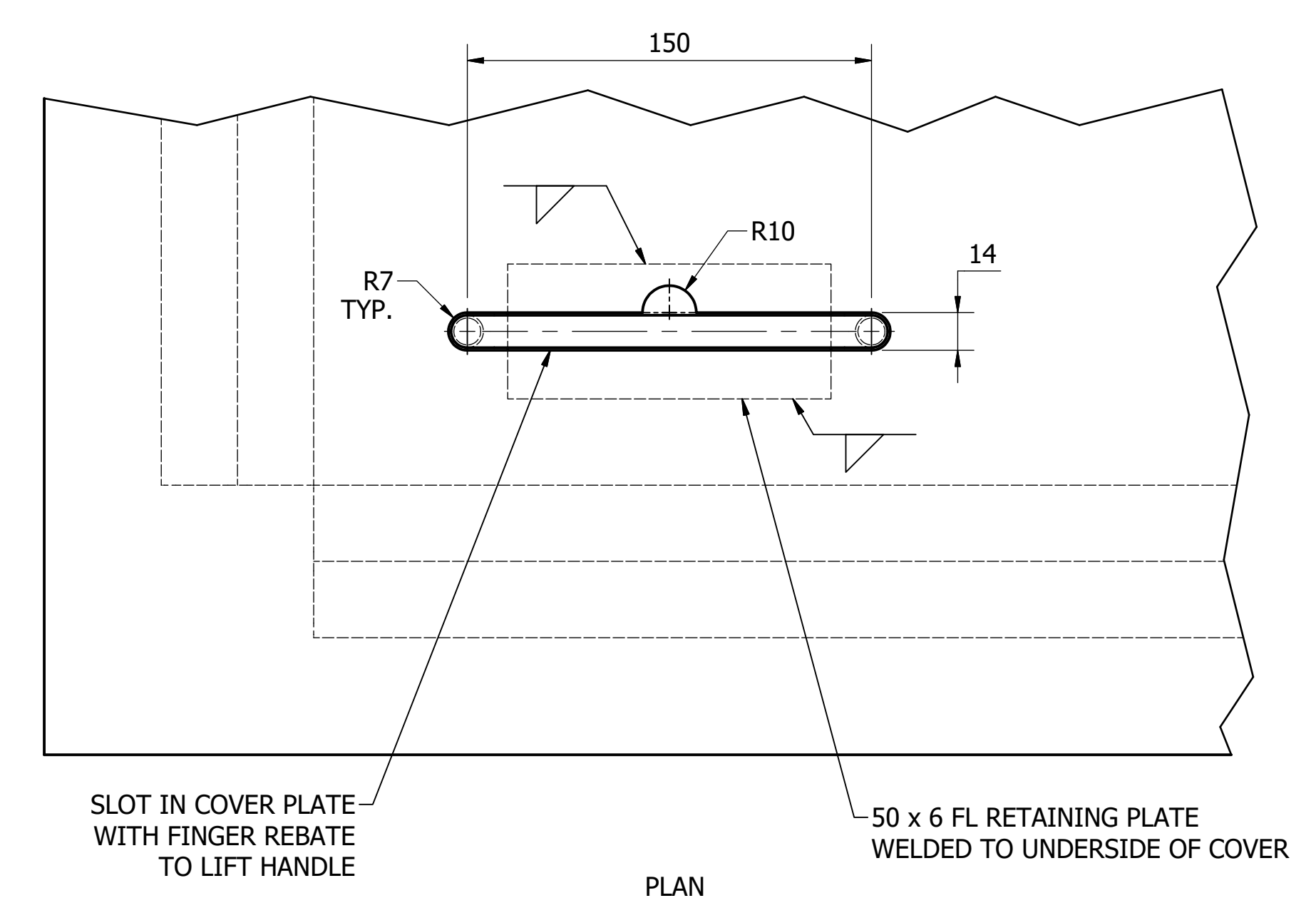
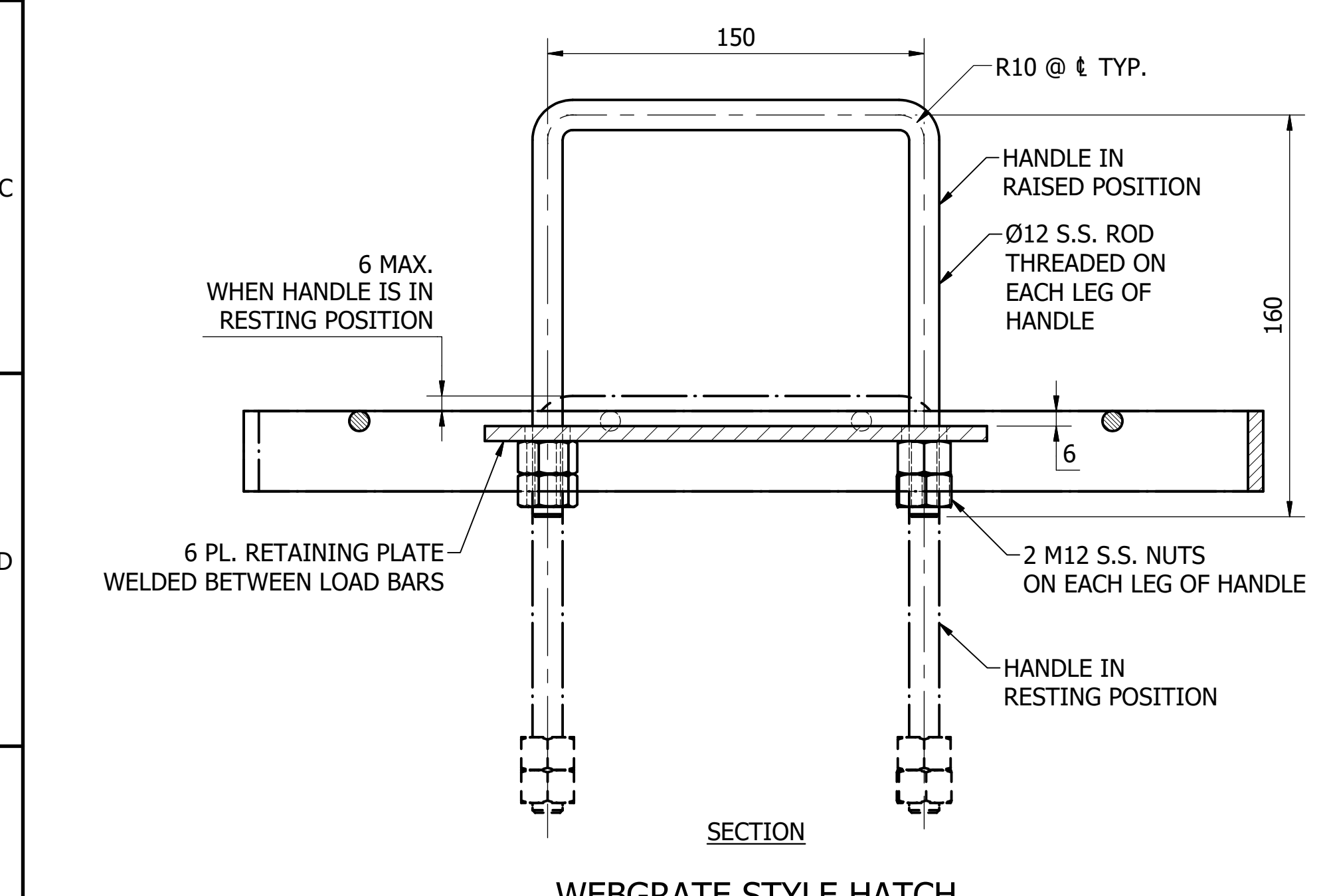
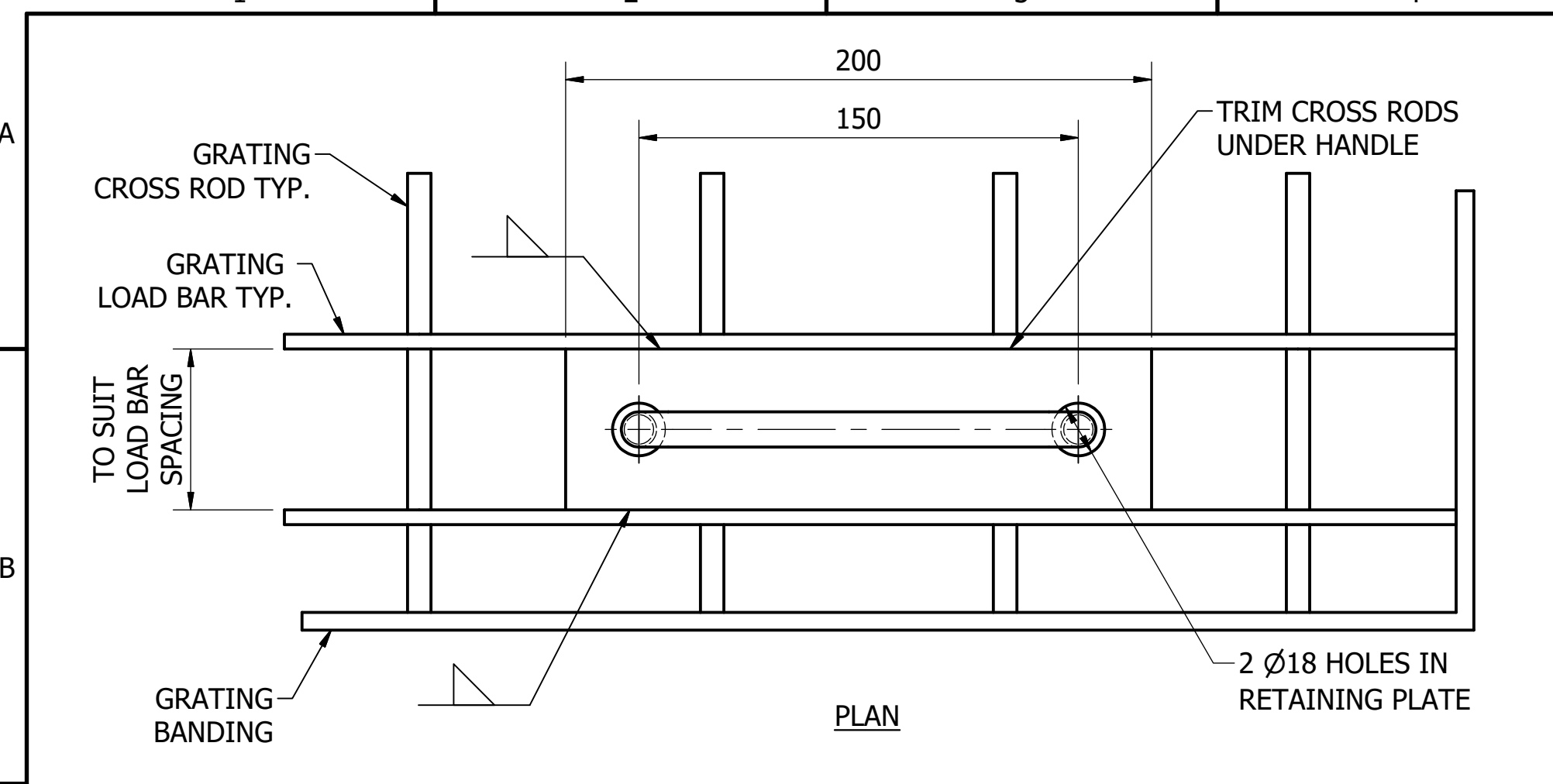
No.	ISSUE	DATE	DRAWN	CHECKED	AUTHORISED
A	INITIAL ISSUE	15/06/2018	M. Matusiak	K. Danenbergson	D. Eager

DAM	RES	SPS
BWS	WAT	STP
WTP	SEW	
WPS	REC	



STANDARD DRAWING
ACCESS COVERS - ALUMINIUM, HINGED
LOCK BOX - STANCHION LOCKING BAR TYPE
DETAILS

DRAWING STATUS	Current
SD-8257-D	ISSUE A
A1	© Icon Water 2017



RETRACTABLE HANDLE - FLUSH FIT

SCALE: 1 : 2

MATERIAL: STAINLESS STEEL / CARBON STEEL / ALUMINIUM
COATING: HOT DIP GALVANISED (CARBON STEEL PARTS ONLY)
FINISH COLOUR: N/A
MASS: 0.5 kg APPROX. (HANDLE ONLY)

ITEM	AMDT.
PN826101	

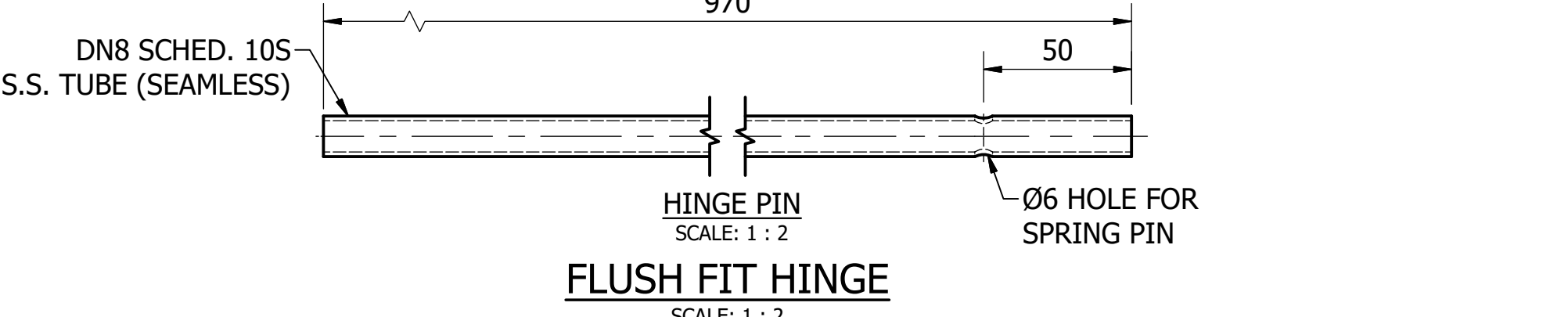
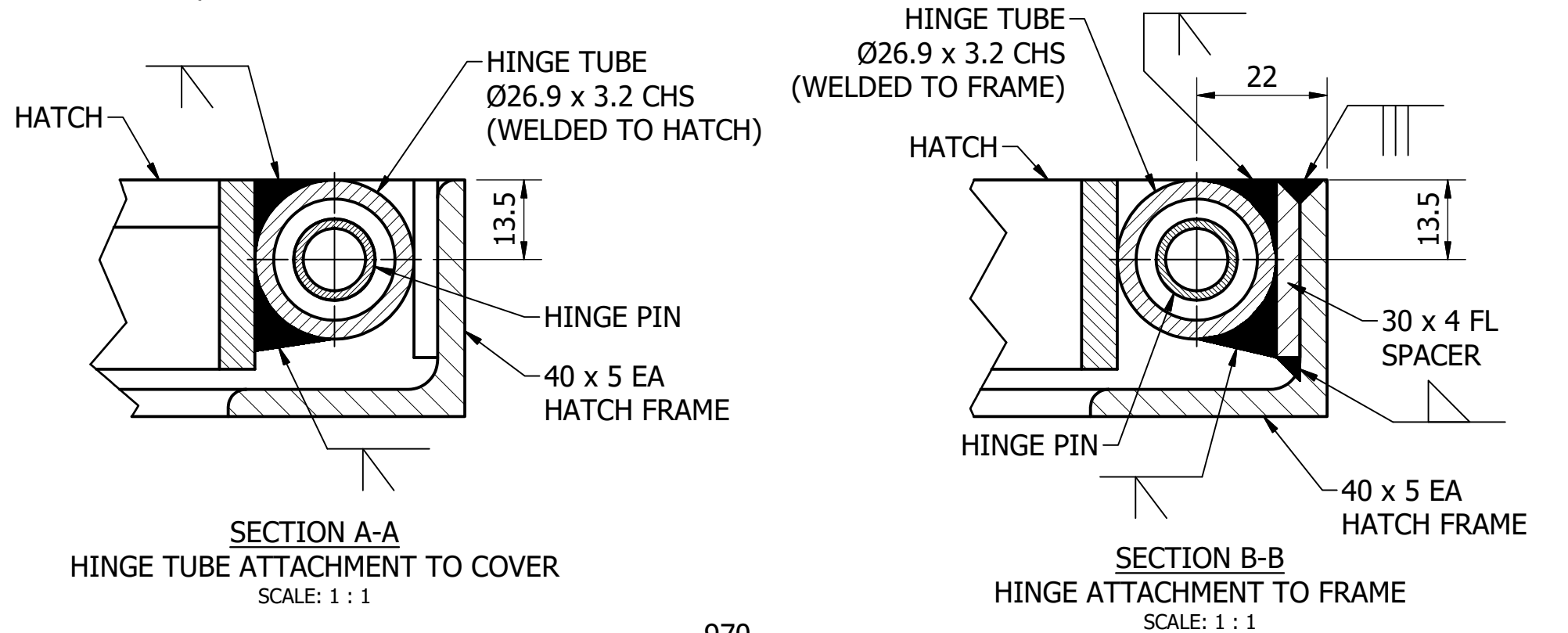
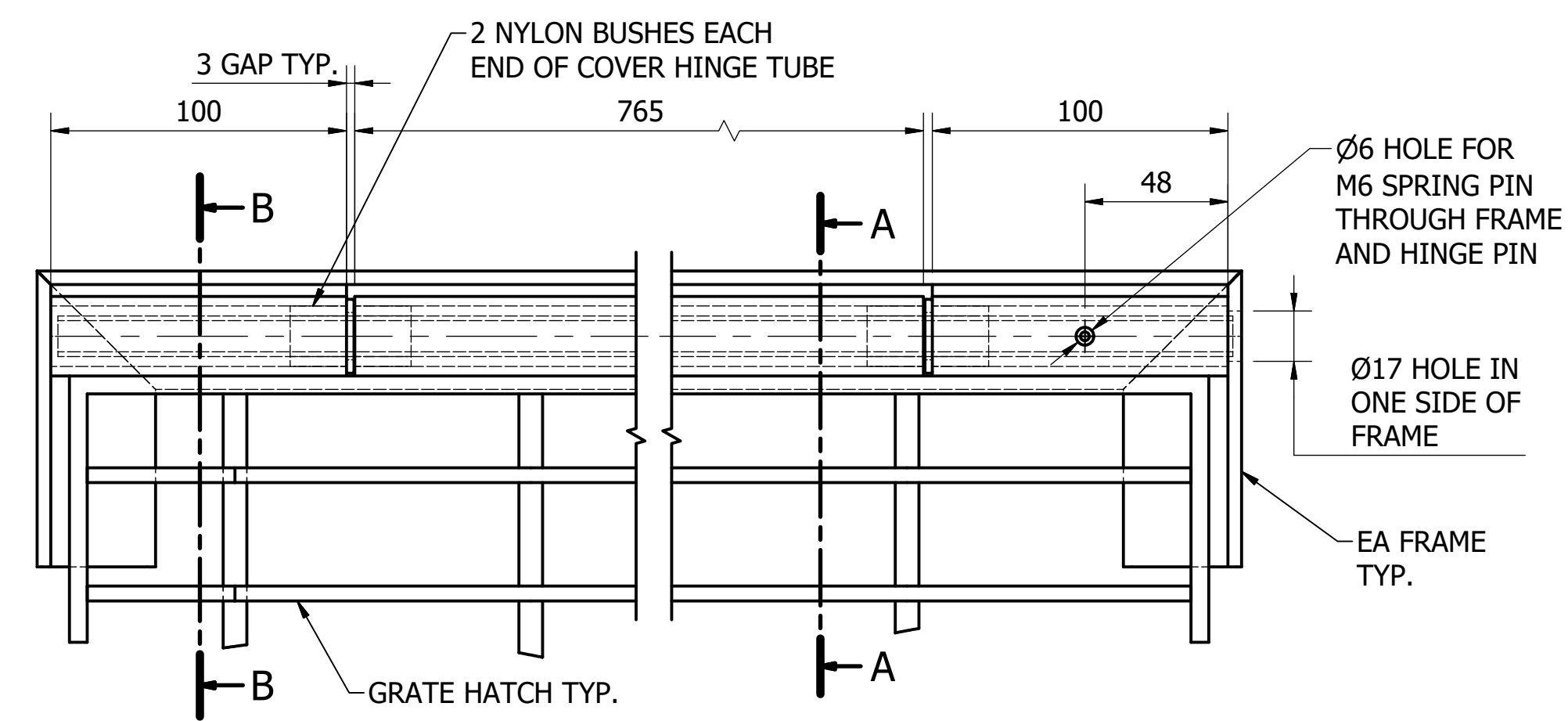
No.	ISSUE	DATE	DRAWN	CHECKED	AUTHORISED
A	INITIAL ISSUE	15/06/2018	M. Matusiak	K. Danenbergsons	D. Eager

ASSET AREA APPLICABILITY				
DAM	RES	SPS		
BWS	WAT	STP		
WTP	SEW			
WPS	REC			

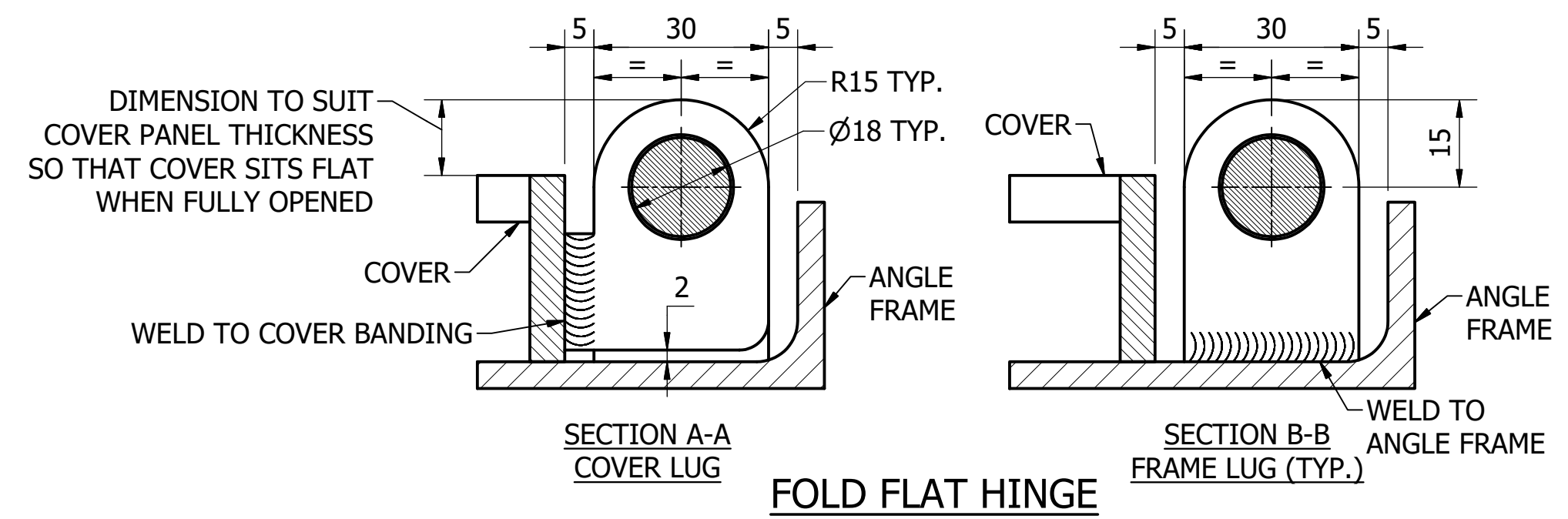
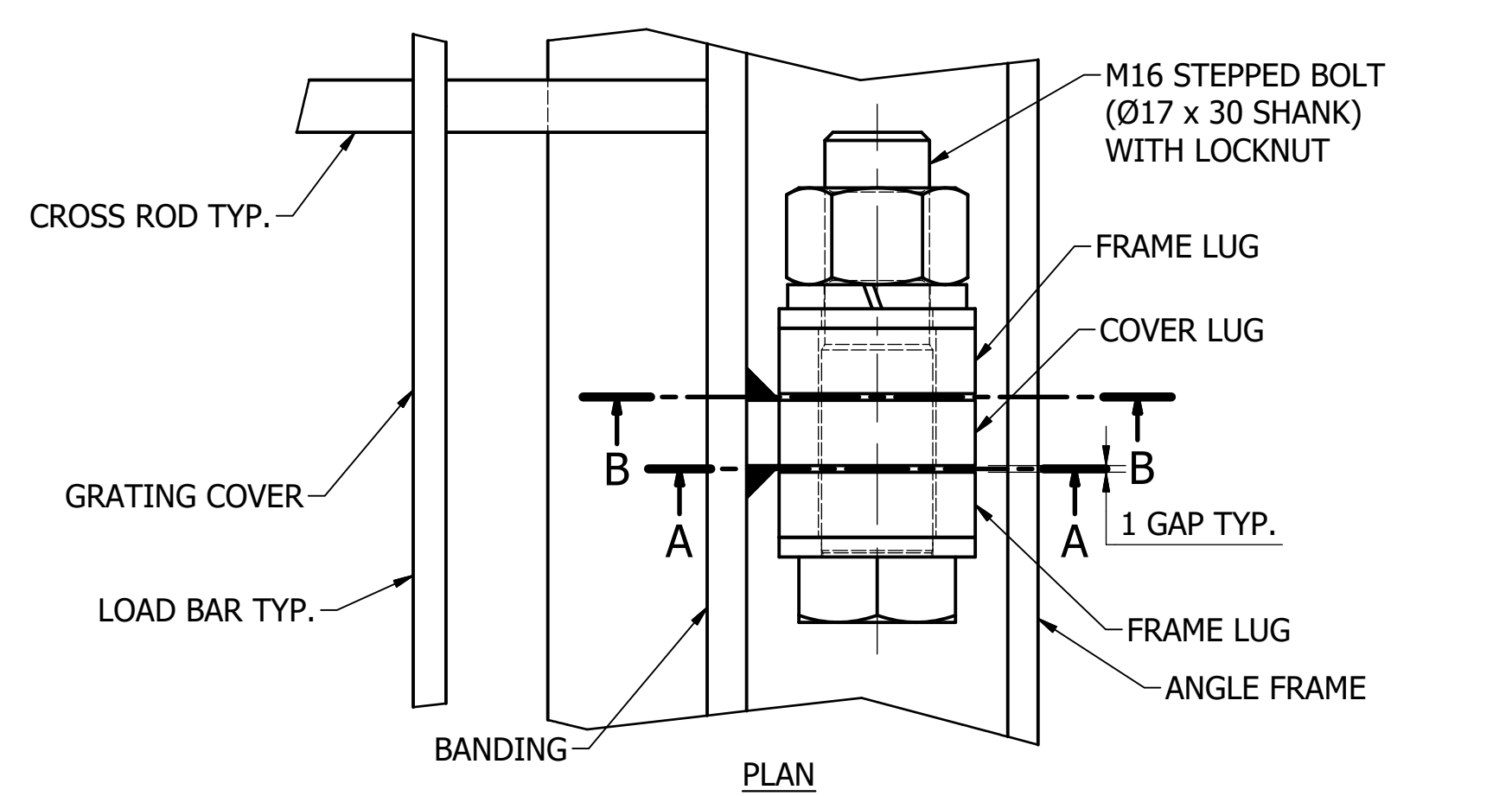


STANDARD DRAWING
ACCESS COVERS - HDG AND ALUMINIUM, HINGED
LIFTING HANDLES
DETAILS

DRAWING STATUS	
Current	
SD-8261-D	
A1	ISSUE A
© Icon Water 2017	

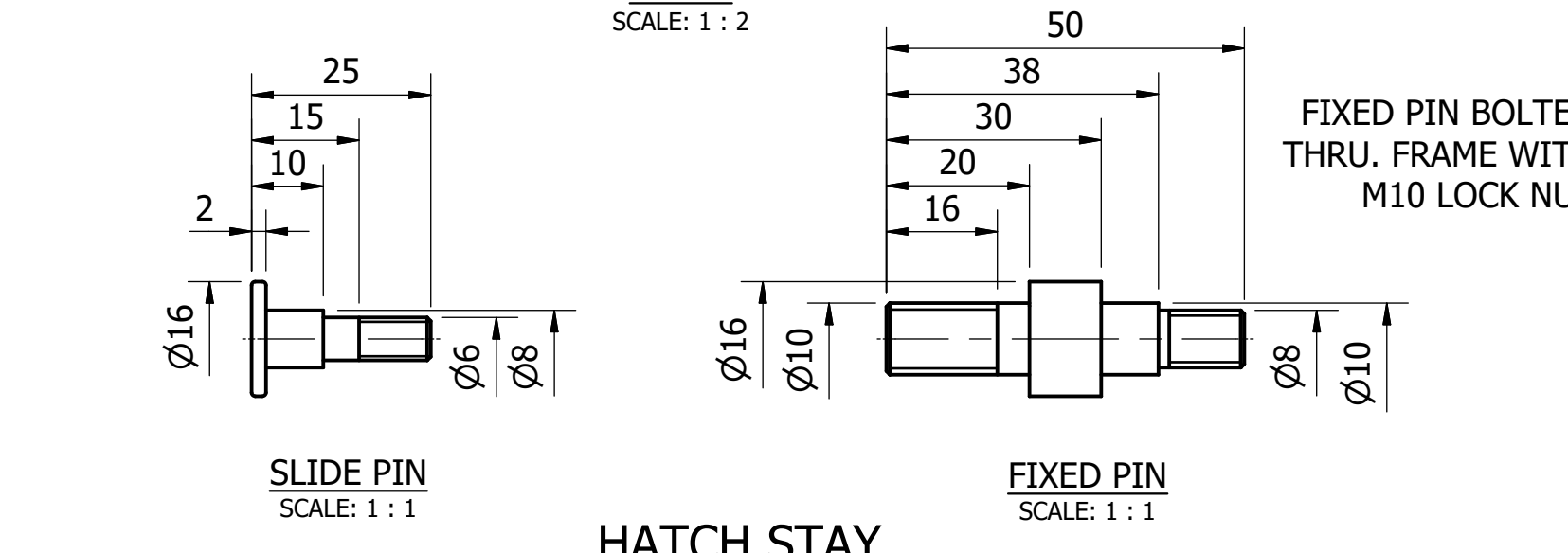
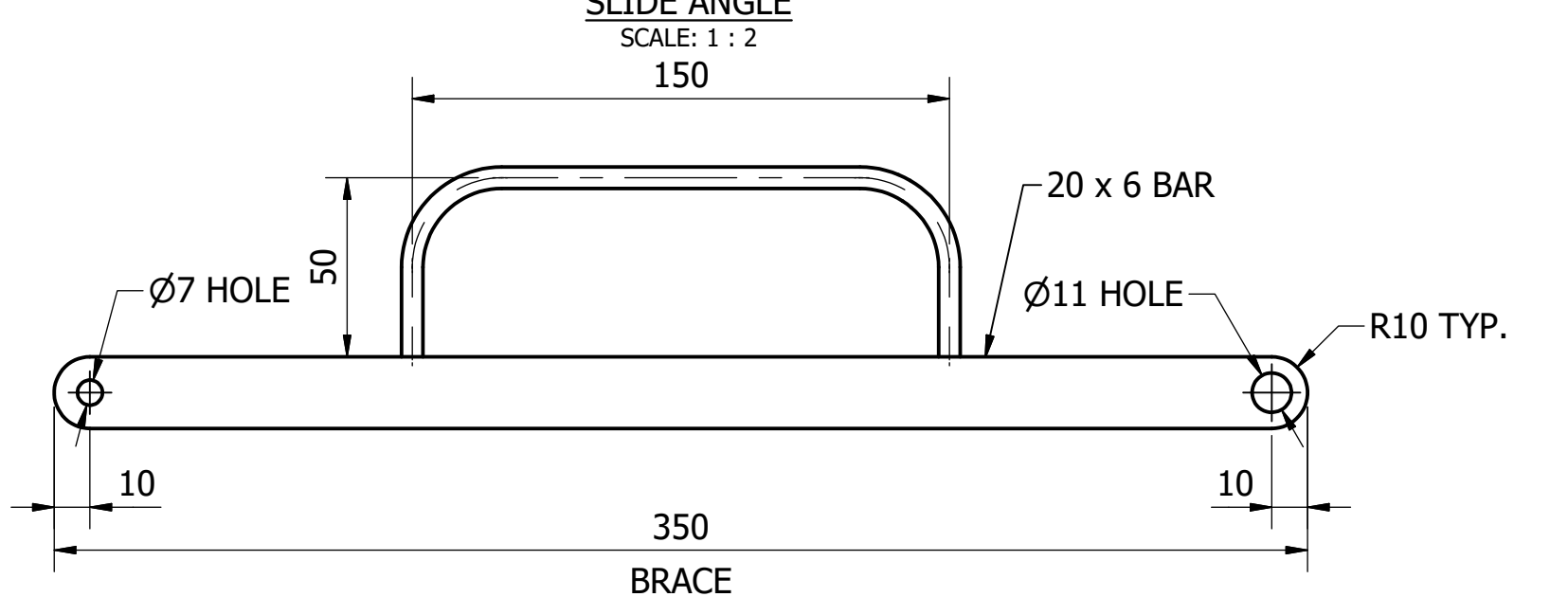
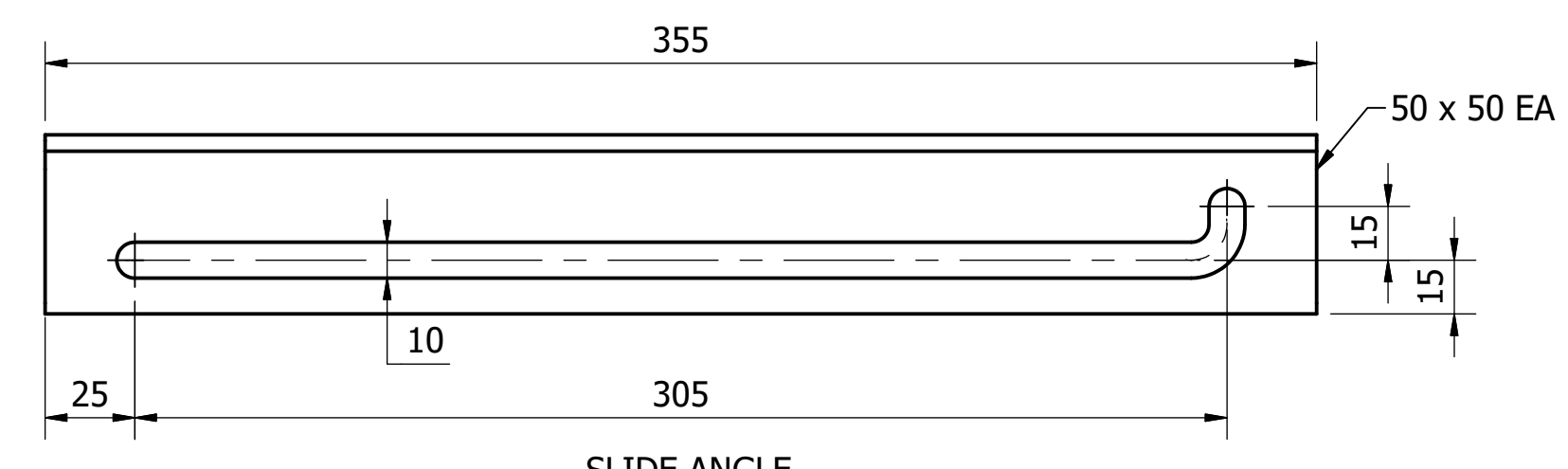


ITEM	AMDT.
PN826301	



FOLD FLAT HINGE
(MIN 2 PER COVER PANNEL)
SCALE: 1 : 1
MATERIAL: CARBON STEEL
COATING: HOT DIP GALVANISED (AS PART OF FINAL ASSY.)
FINISH COLOUR: N/A
MASS: 1 kg

ITEM	AMDT.
PN826302	



HATCH STAY
SCALE: AS SHOWN
MATERIAL: CARBON STEEL
COATING: HOT DIP GALVANISED
FINISH COLOUR: N/A
MASS: 2 kg APPROX.

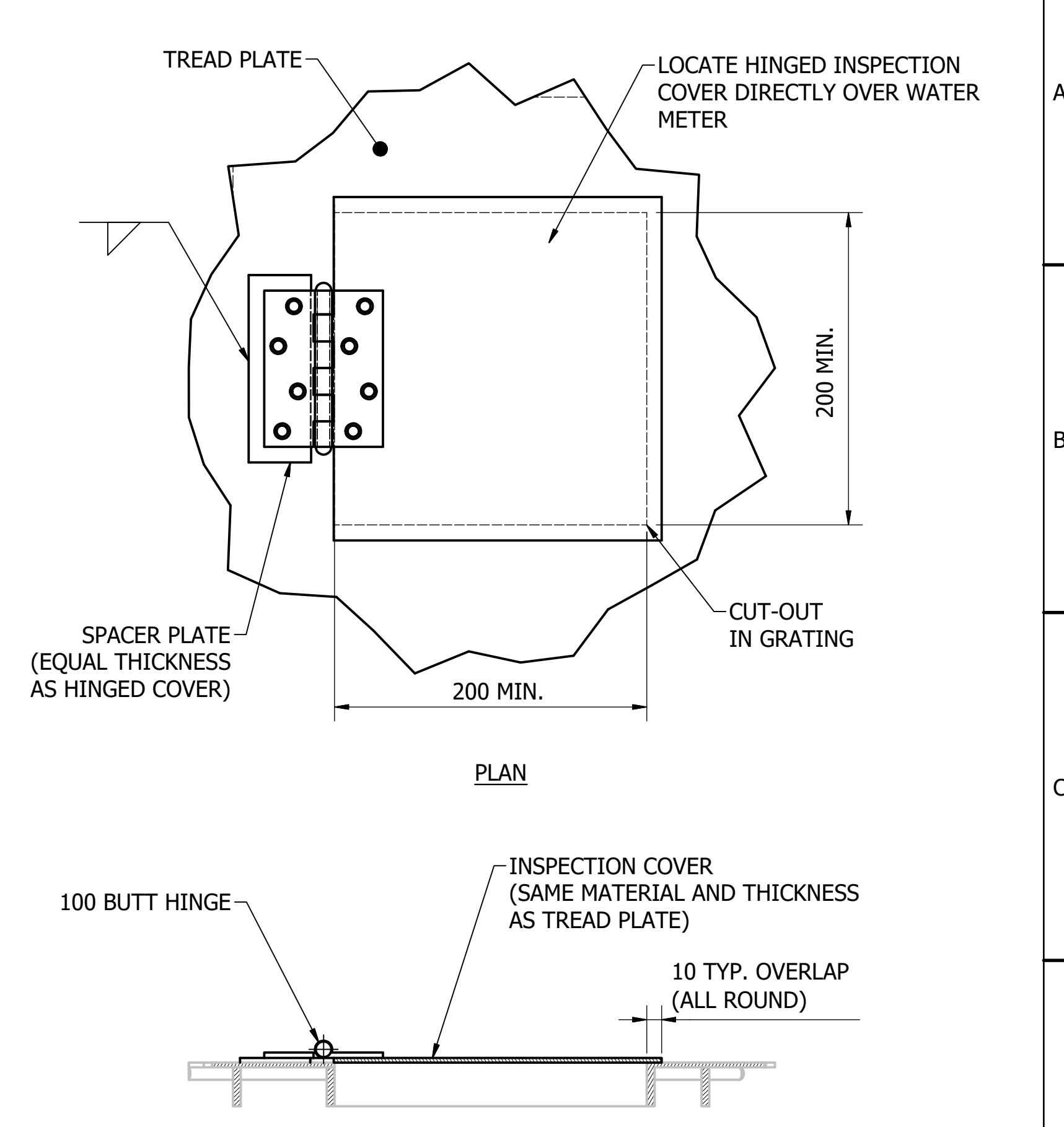
ITEM	AMDT.
PN826305	

DAM	RES	SPS
BWS	WAT	STP
WTP	SEW	
WPS	REC	



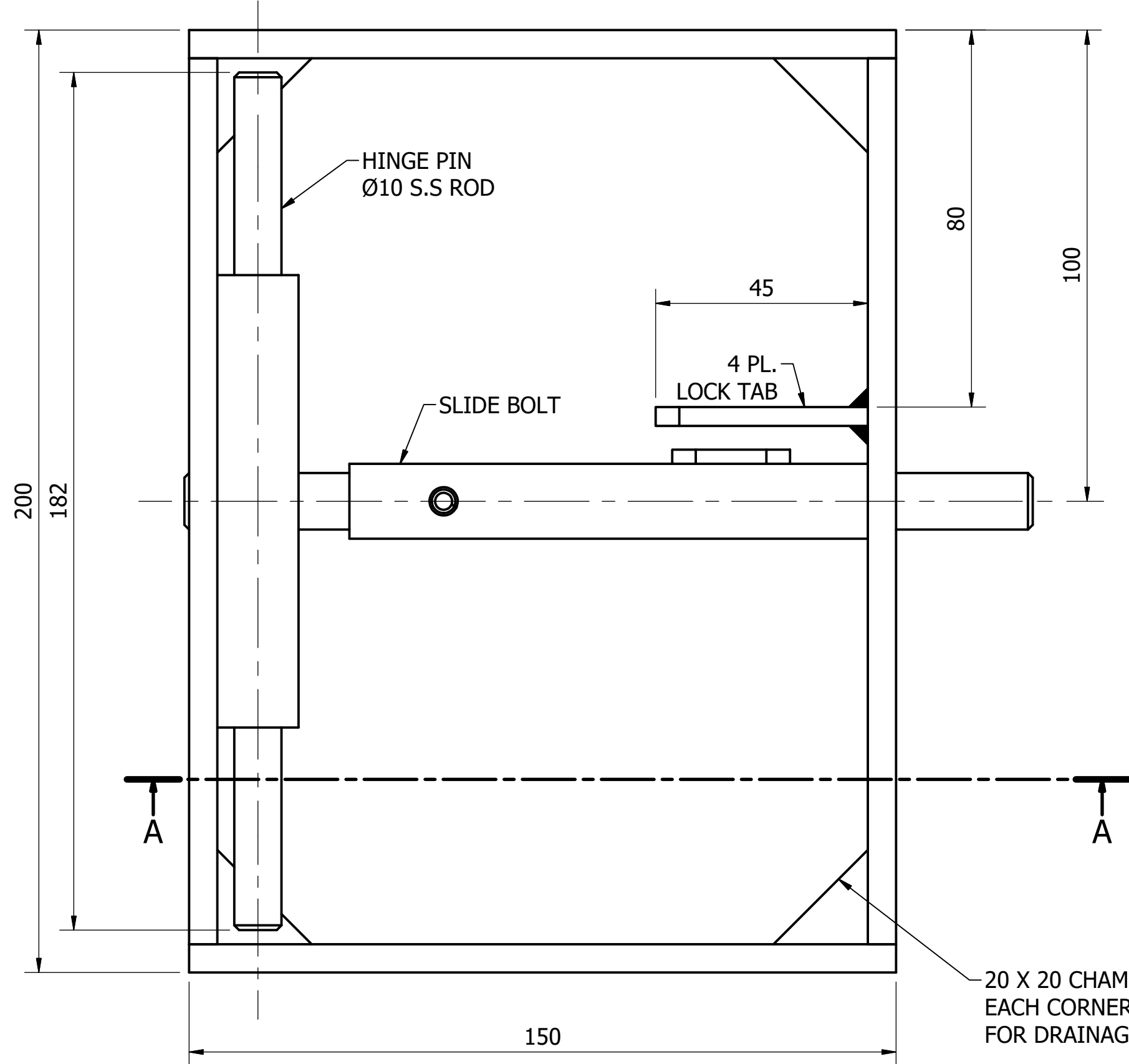
STANDARD DRAWING
ACCESS COVERS - HOT DIP GALVANISED STEEL, HINGED
HINGE AND STAY
DETAILS

DRAWING STATUS	
Current	
SD-8263-D	
A1	ISSUE A

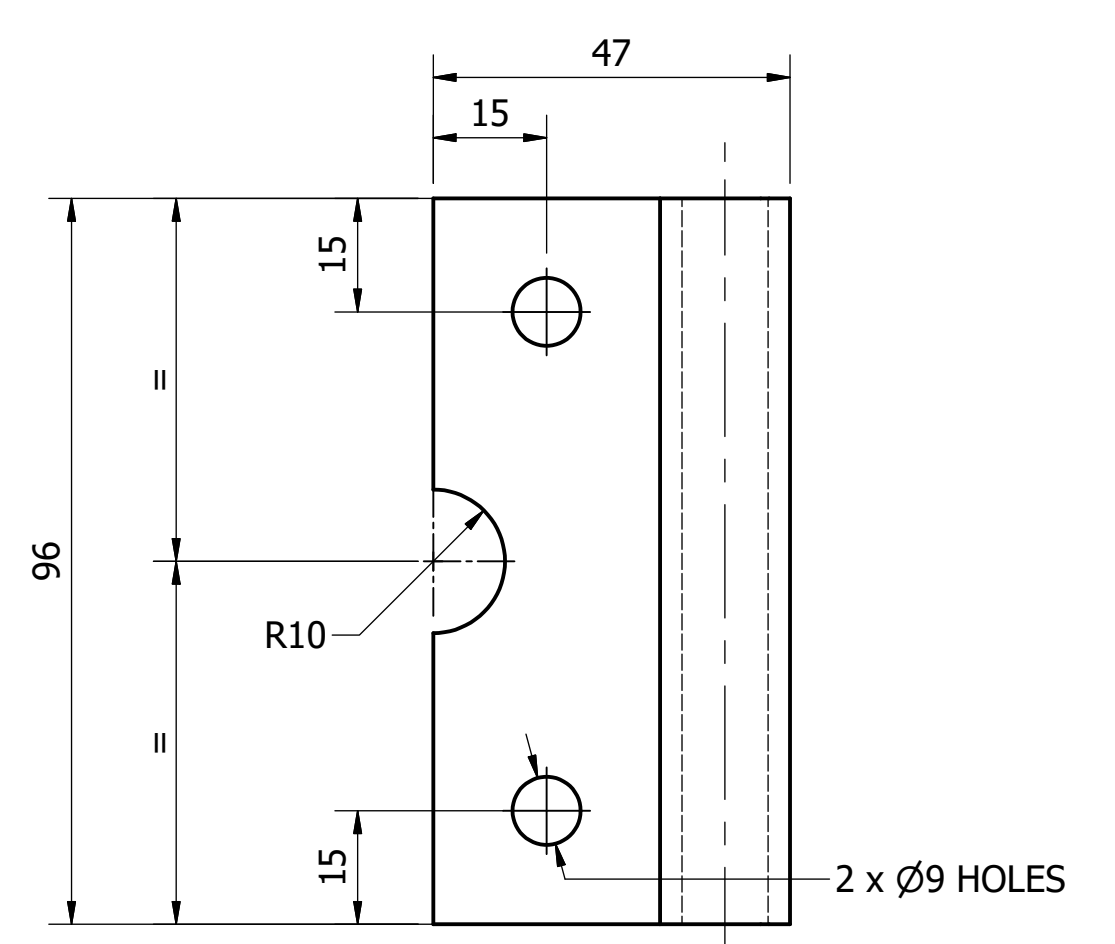


ITEM	AMDT.
PN826303	

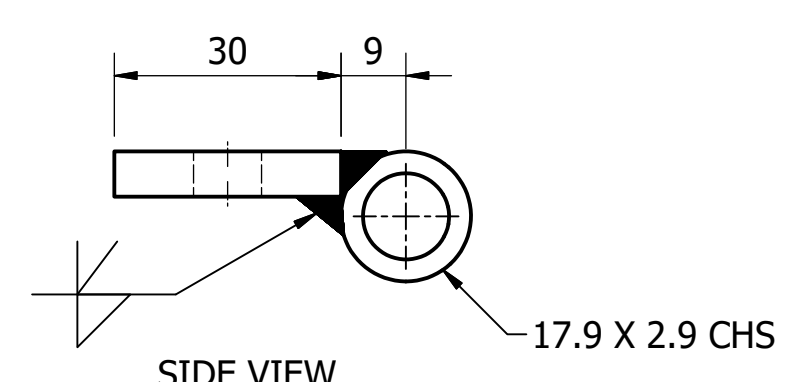
No.	ISSUE	DATE	DRAWN	CHECKED	AUTHORISED
A	INITIAL ISSUE	15/06/2018	M. Matusiak	K. Danenbergsons	D. Eager



PLAN
(LID OMITTED FOR CLARITY)

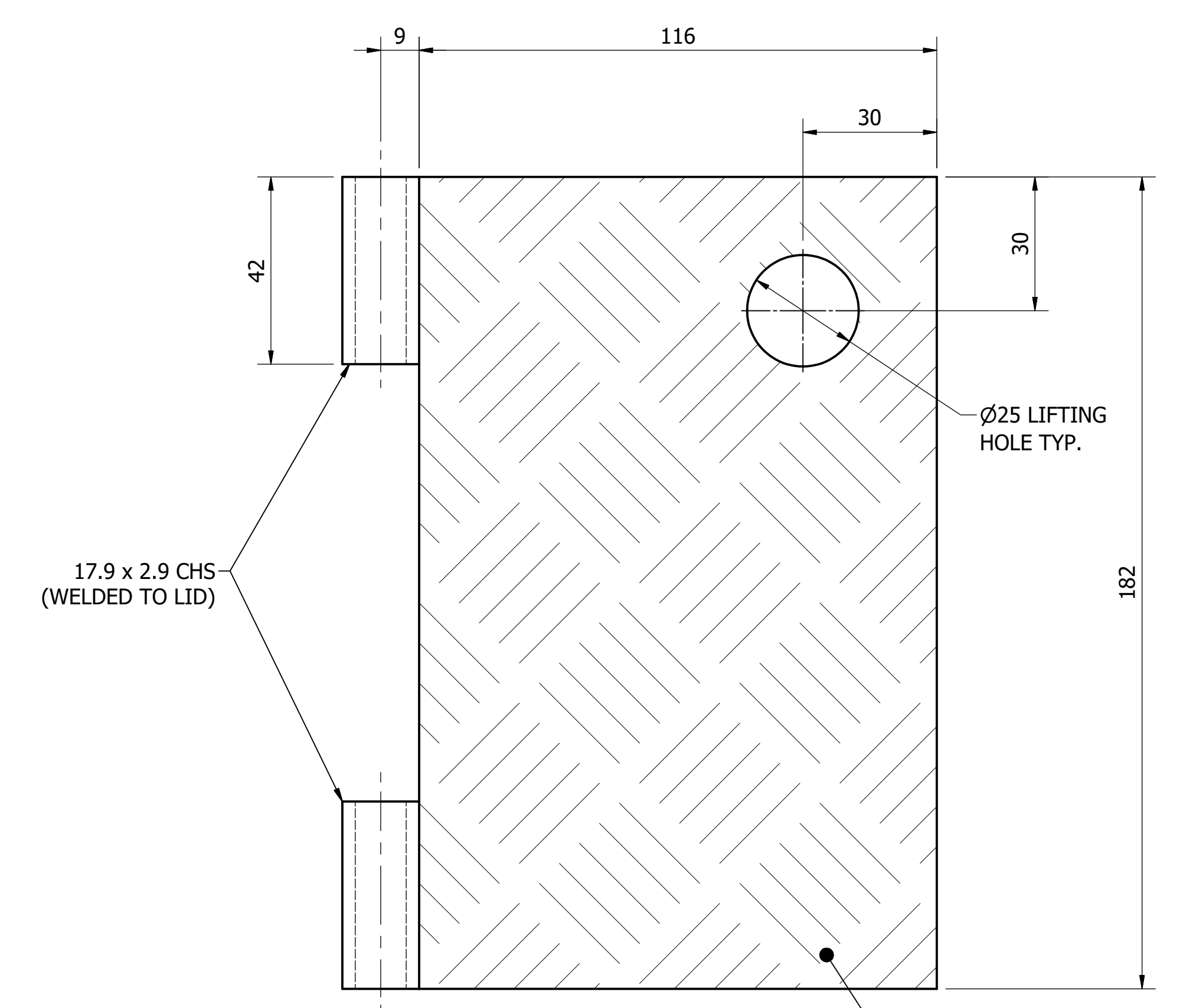


FRONT VIEW

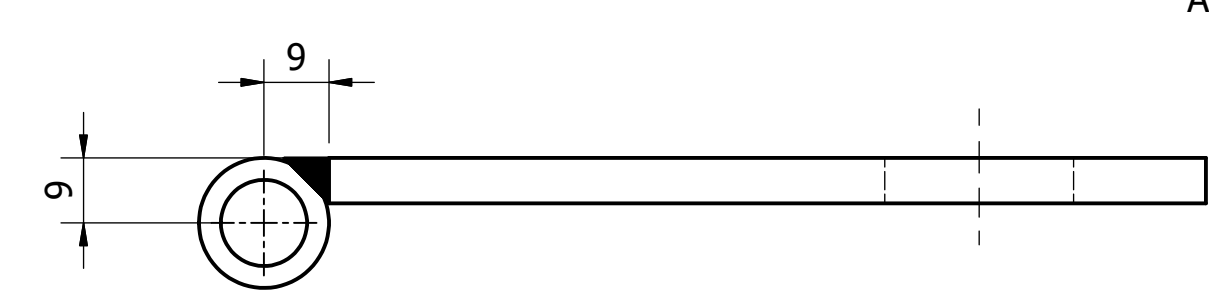


SIDE VIEW

HINGE
SCALE: 1 : 1

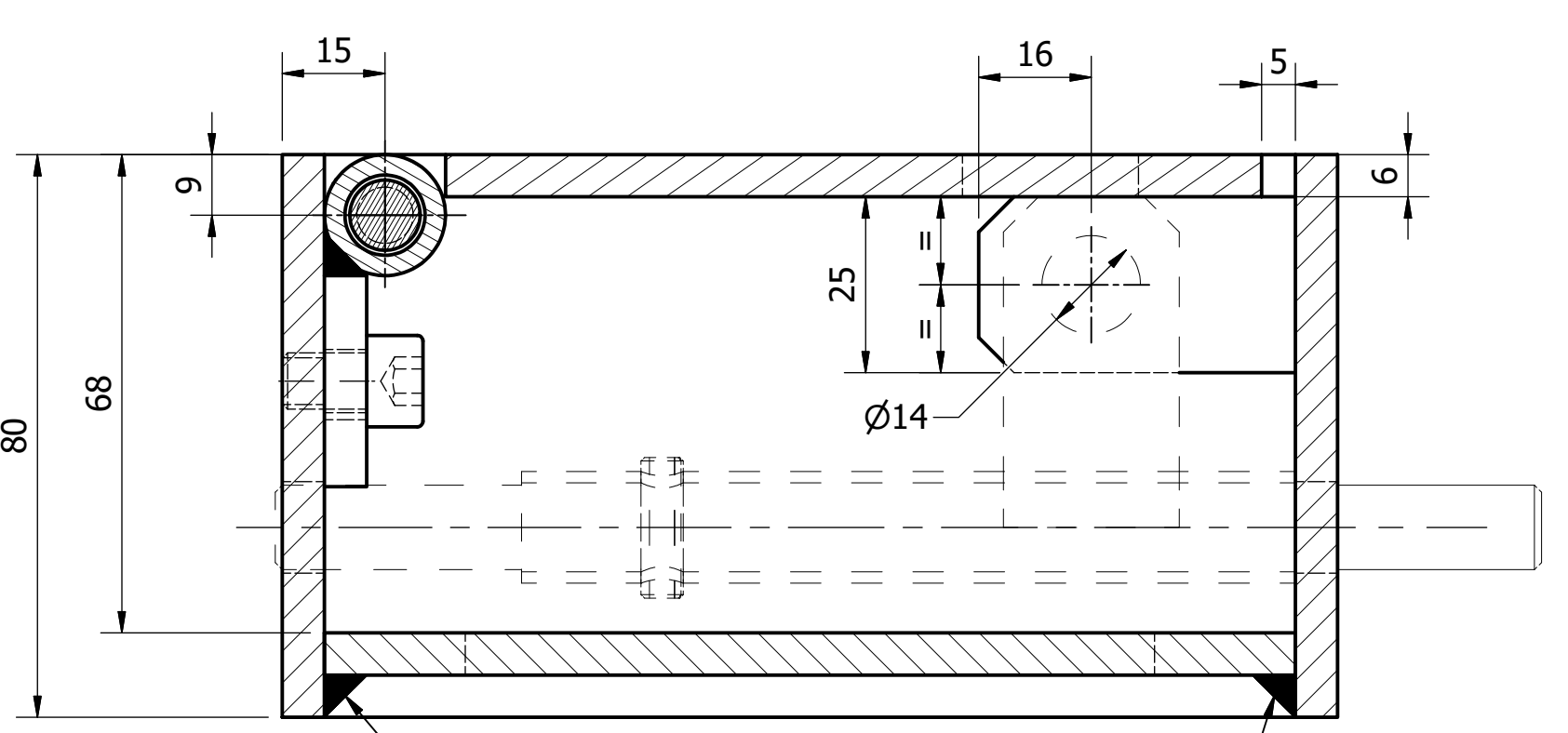


PLAN

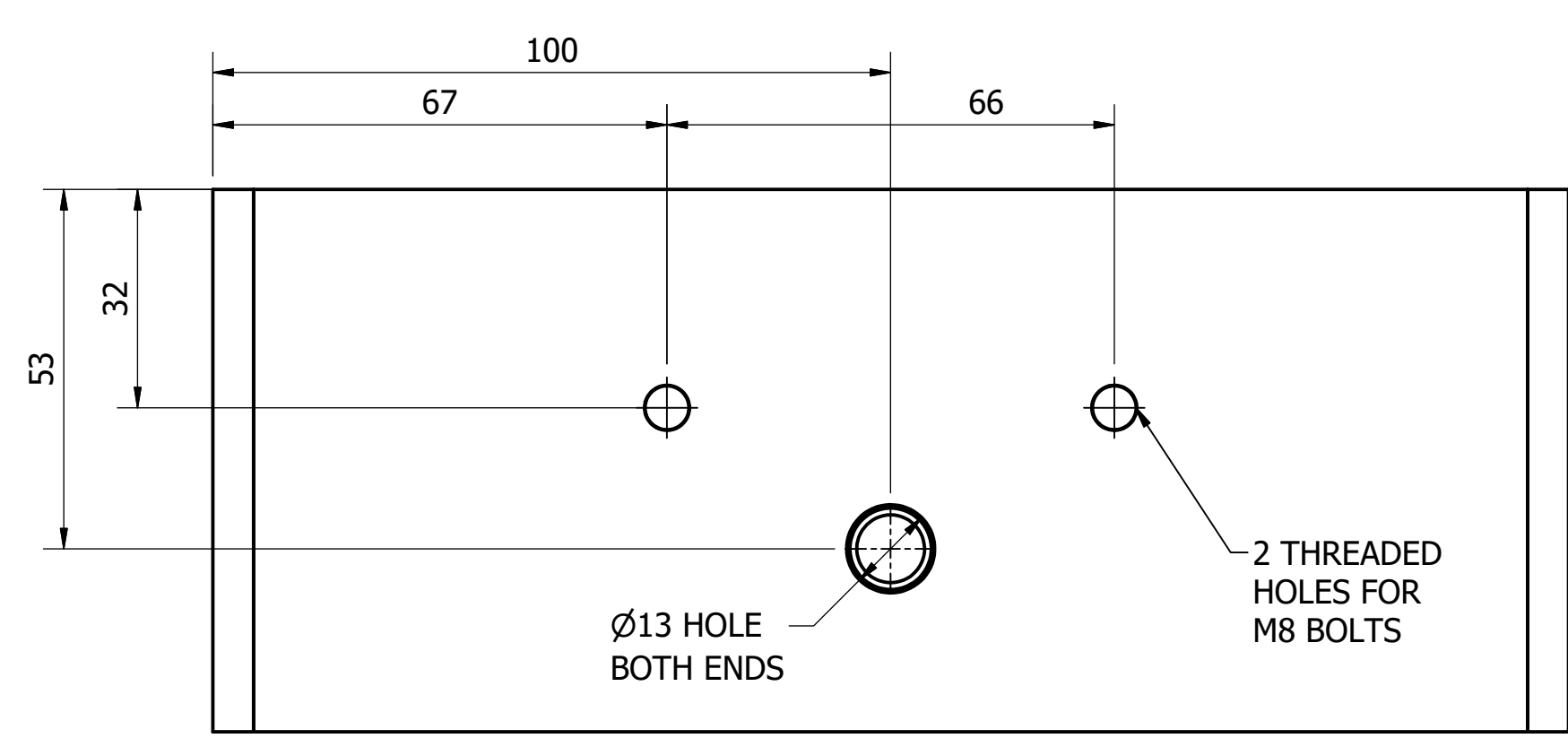


SIDE VIEW

LID
SCALE: 1 : 1



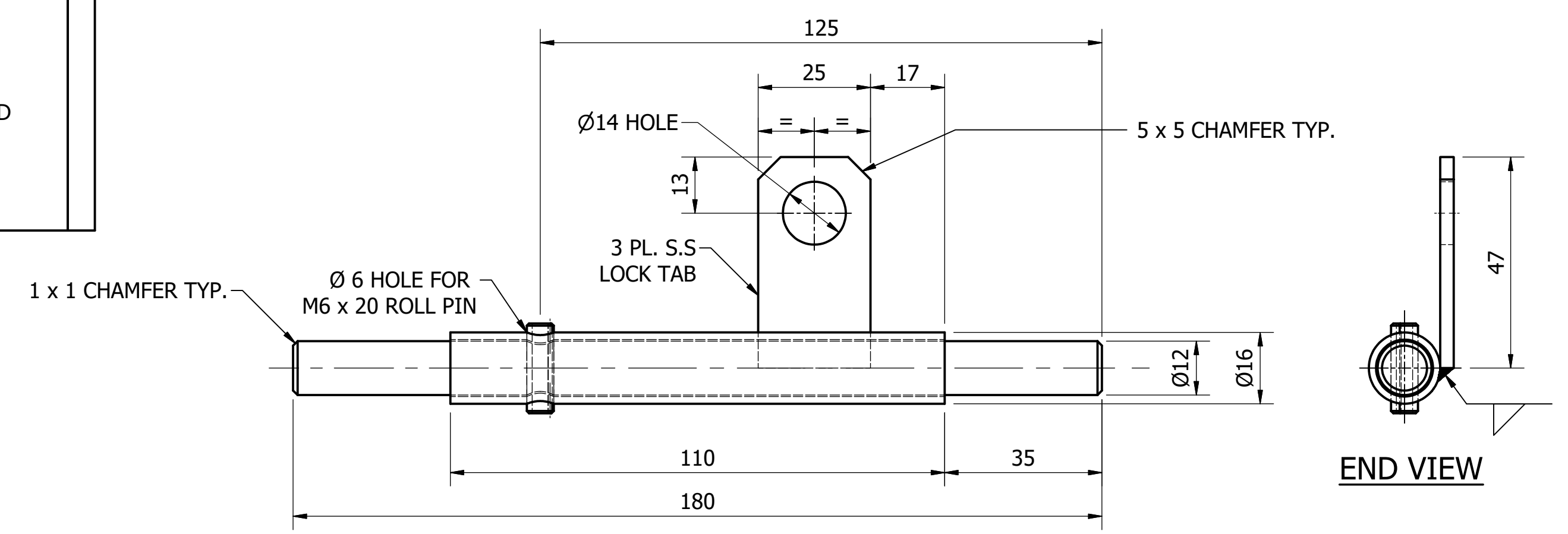
SECTION A-A



BACK VIEW

LOCK BOX - SLIDE BOLT TYPE
SCALE: 1 : 1

MATERIAL: CARBON STEEL / STAINLESS STEEL
COATING: HOT DIP GALVANISED (CARBON STEEL PARTS ONLY)
FINISH COLOUR: N/A
MASS: 5 kg



SIDE VIEW

SLIDE BOLT
SCALE: 1 : 1

END VIEW

ITEM	AMDT.
PN826501	

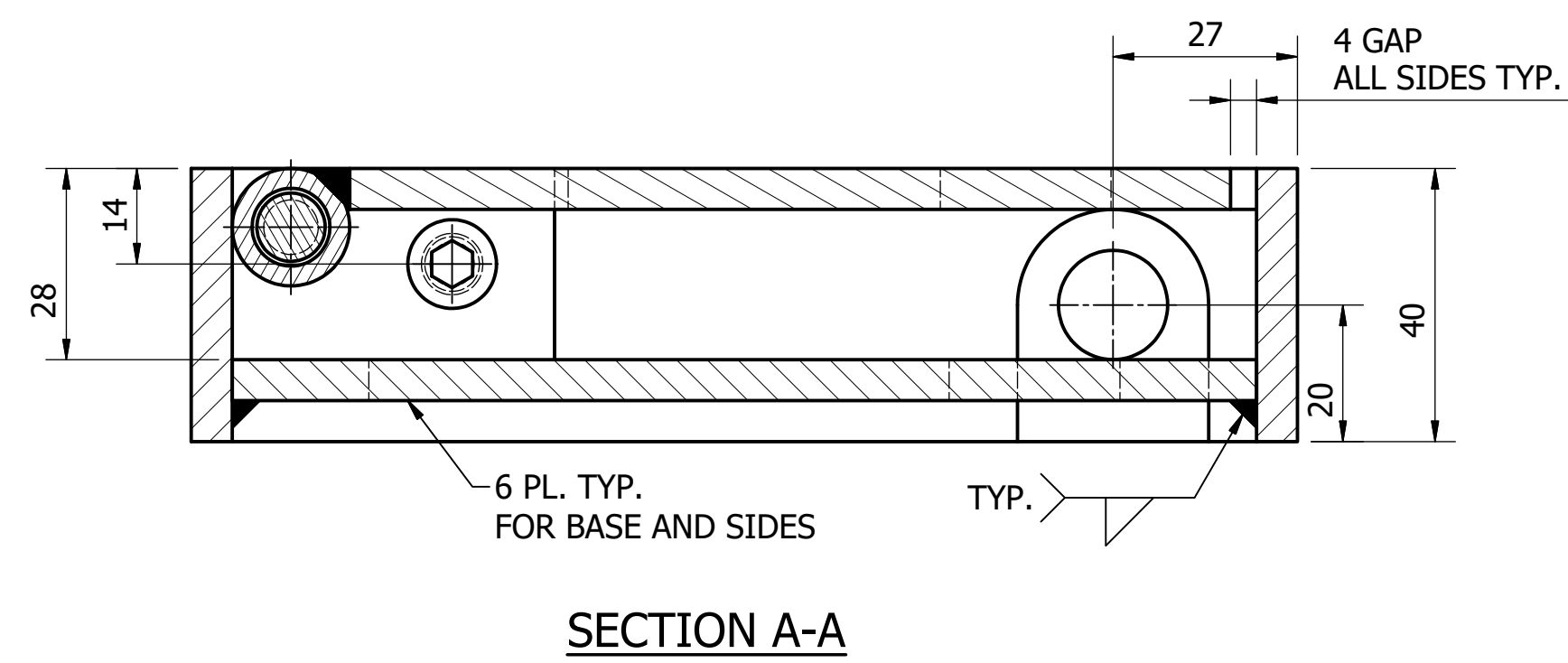
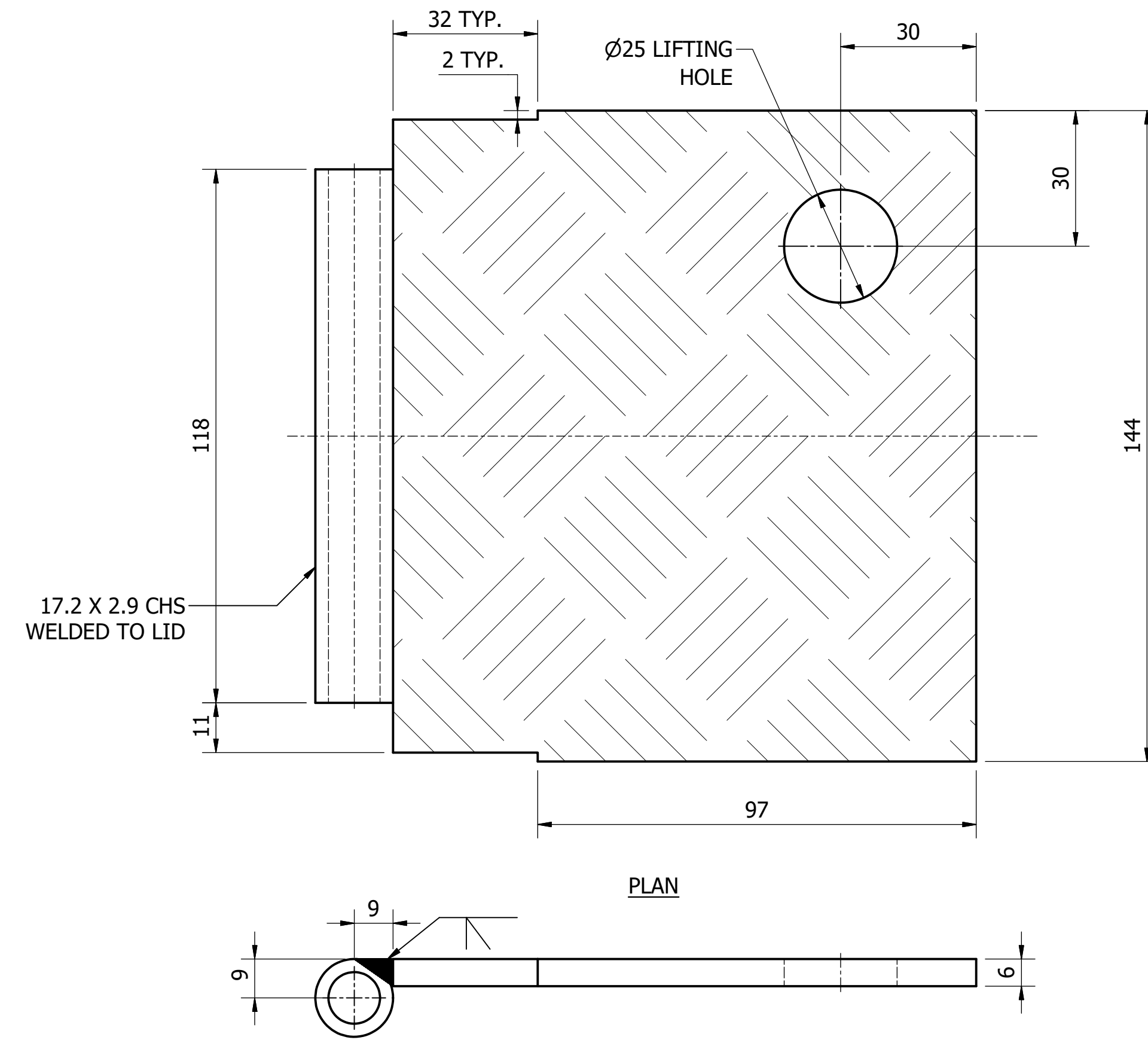
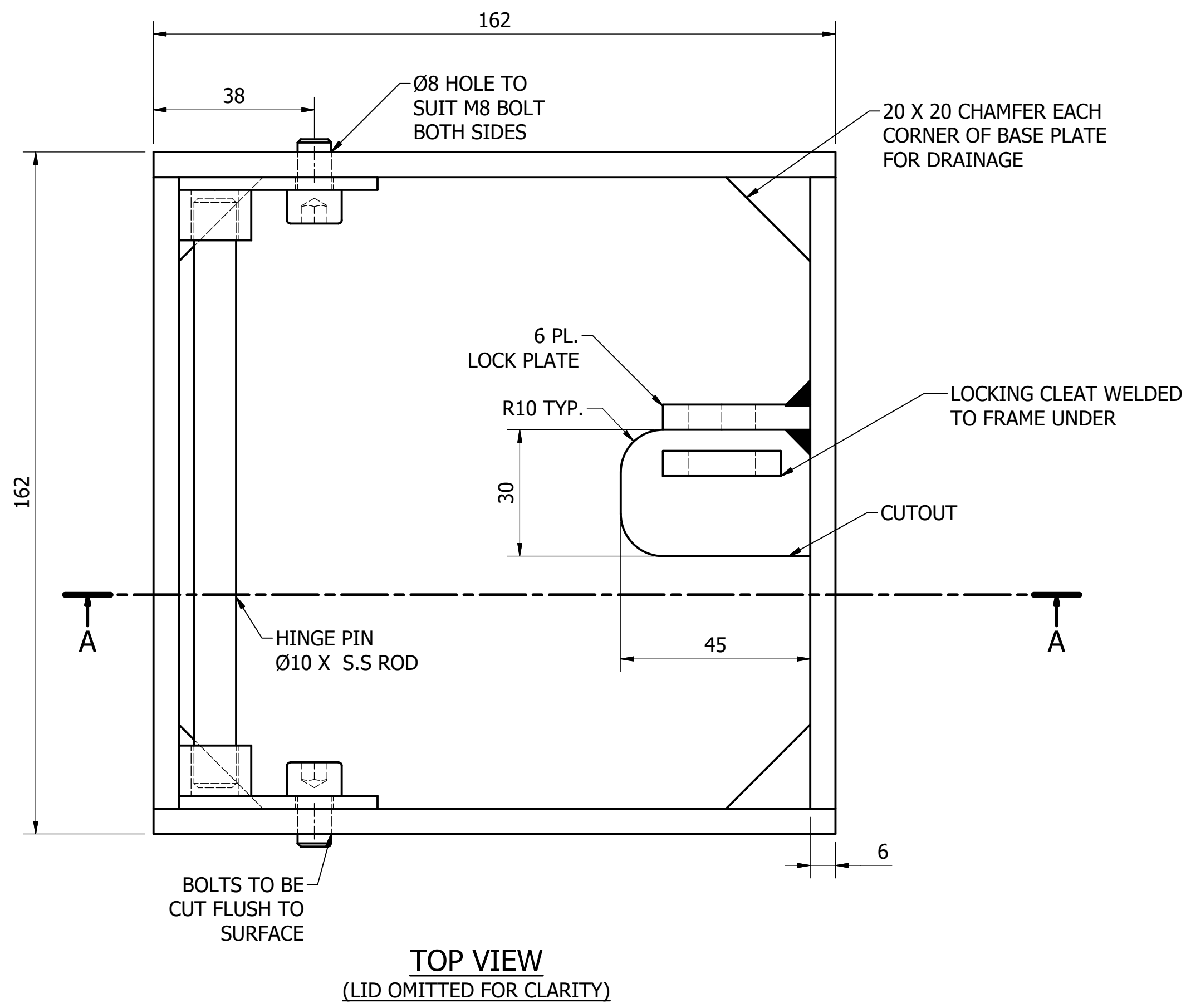
A	INITIAL ISSUE	15/06/2018	S. Essery	K. Danenbergsons	D. Eager
No.	ISSUE	DATE	DRAWN	CHECKED	AUTHORISED
1					
2					
3					
4					
5					

DAM	RES	SPS
BWS	WAT	STP
WTP	SEW	
WPS	REC	
ASSET AREA APPLICABILITY		



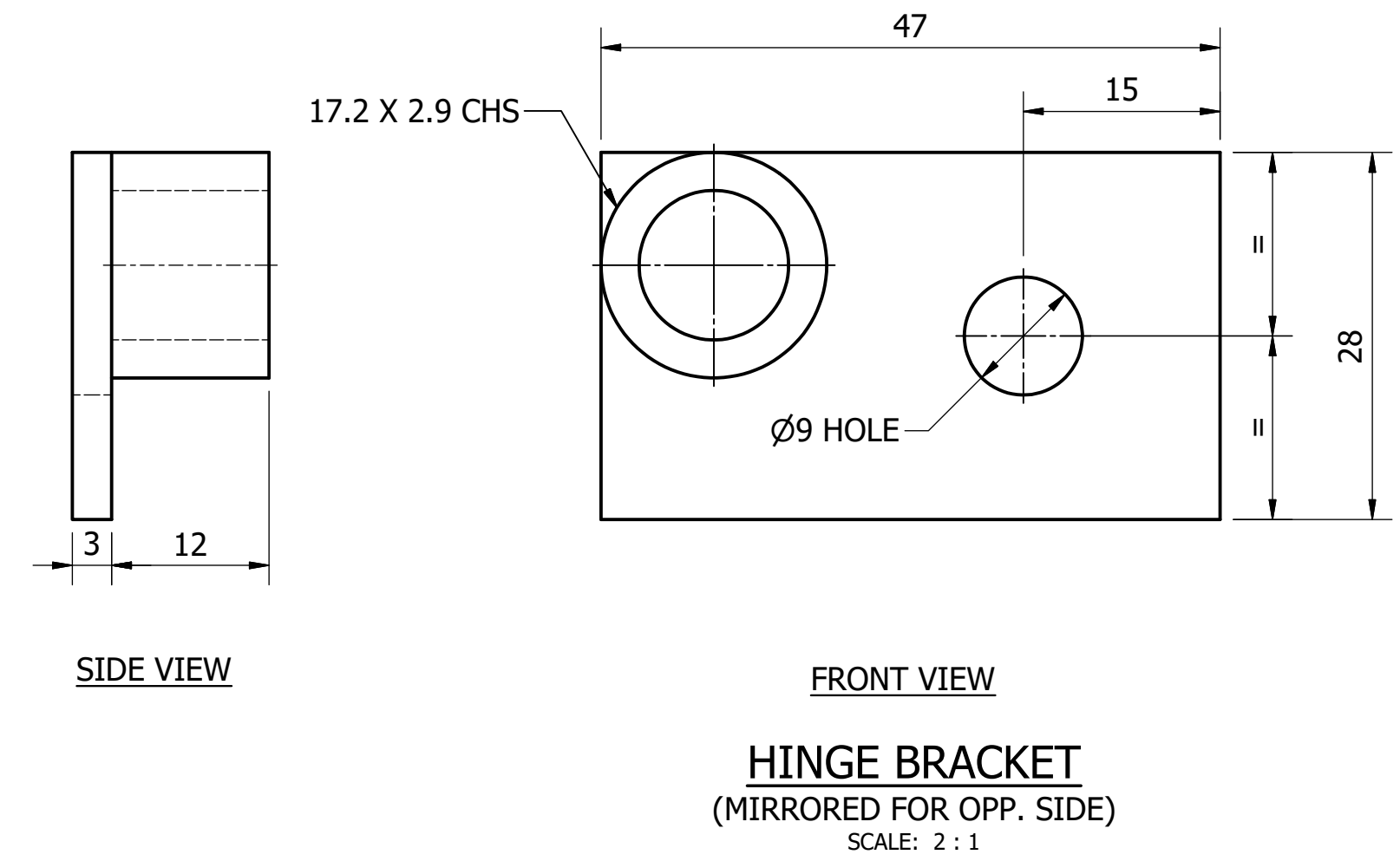
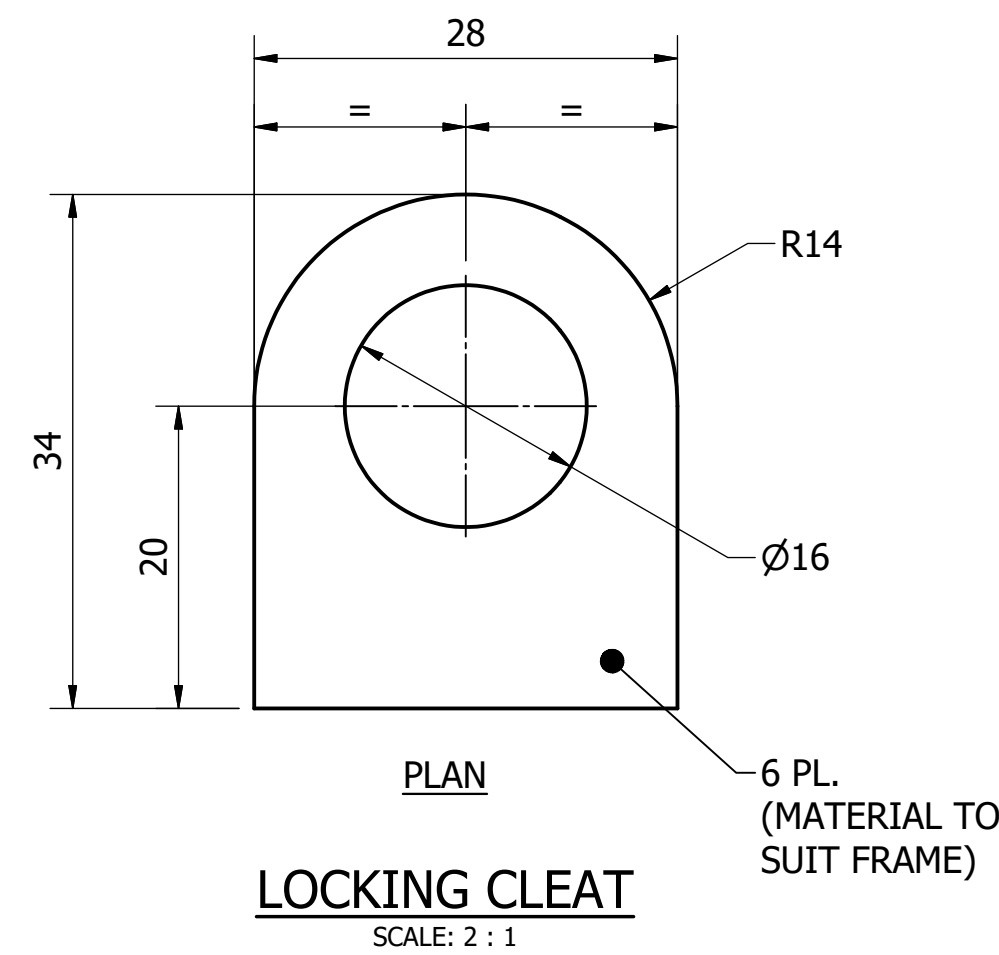
STANDARD DRAWING
ACCESS COVERS - HOT DIP GALVANISED STEEL, HINGED
LOCK BOX SLIDE BOLT TYPE
DETAILS

DRAWING STATUS	
Current	
SD-8265-D	
A1	ISSUE A
© Icon Water 2017	



LOCK BOX
LOCKING PLATE STYLE
SCALE: 1 : 1

MATERIAL: CARBON STEEL / STAINLESS STEEL
COATING: HOT DIP GALVANISED (CARBON STEEL ONLY)
FINISH COLOUR: N/A
MASS: 8 kg



ITEM	AMDT.
PN826601	

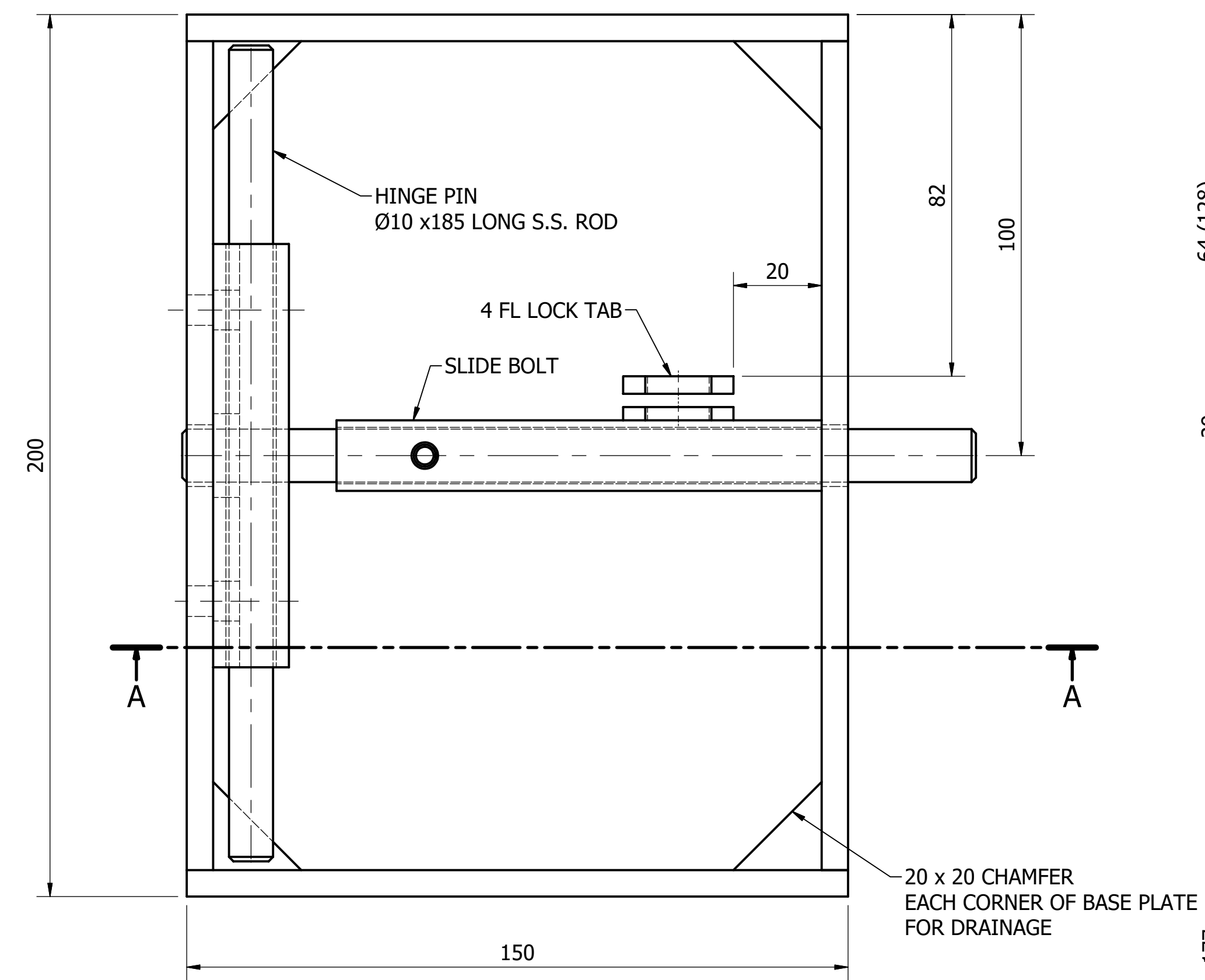
No.	ISSUE	DATE	DRAWN	CHECKED	AUTHORISED
A	INITIAL ISSUE	15/06/2018	S. Essery	K. Danenbergsons	D. Eager

DAM	RES	SPS
BWS	WAT	STP
WTP	SEW	
WPS	REC	
ASSET AREA APPLICABILITY		

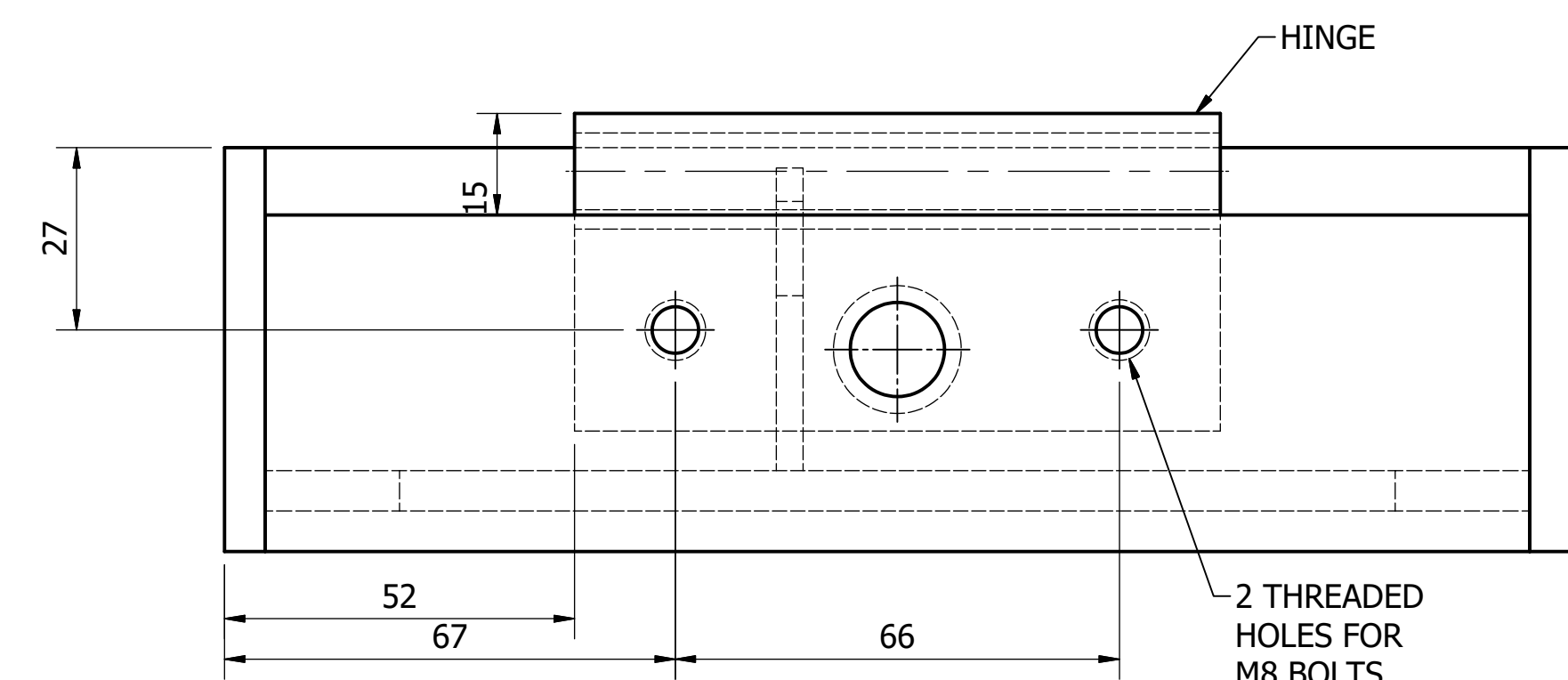


STANDARD DRAWING
ACCESS COVERS - HOT DIP GALVANISED STEEL, HINGED
LOCK BOX LOCKING PLATE TYPE
DETAILS

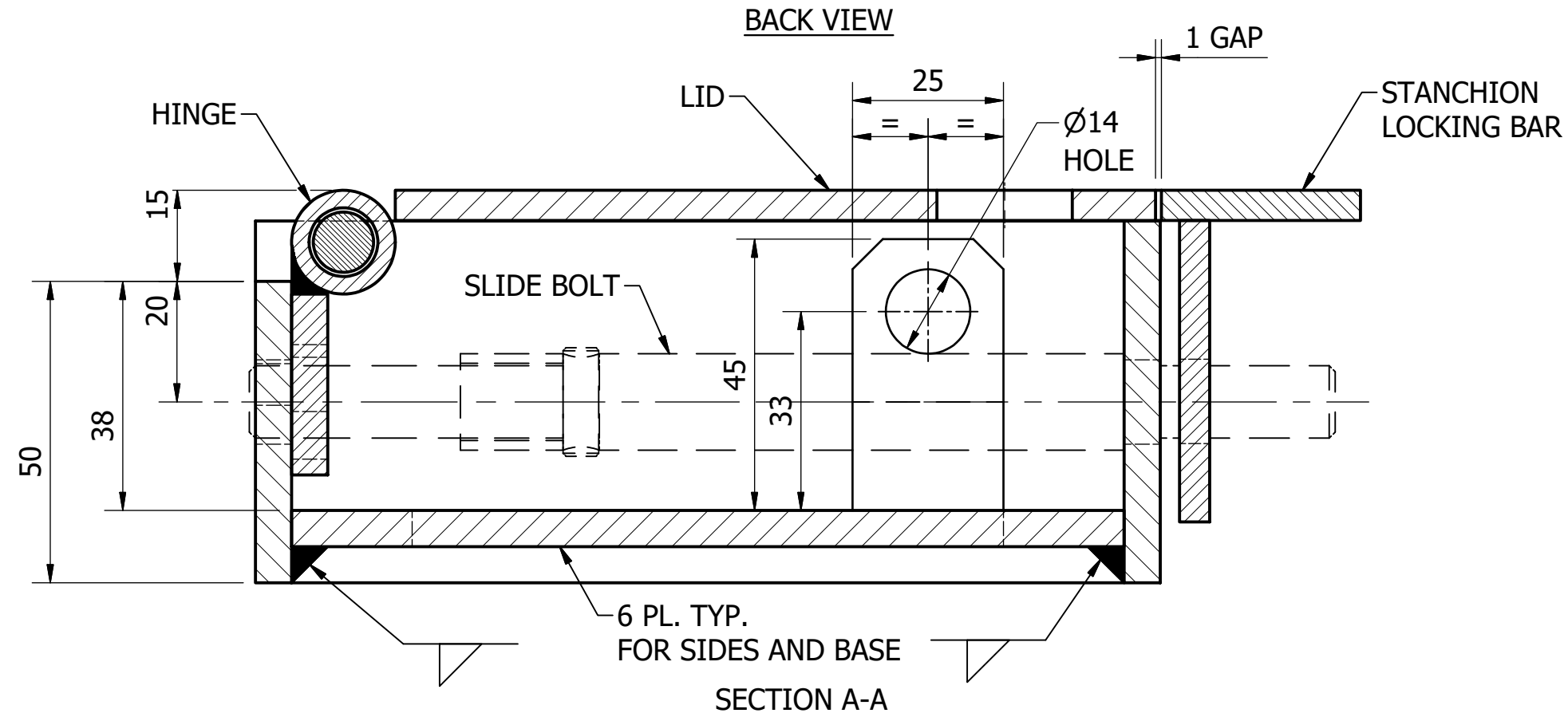
DRAWING STATUS	
Current	
SD-8266-D	
A1	ISSUE A
© Icon Water 2017	



PLAN
(LOCKING BAR AND LID OMITTED FOR CLARITY)

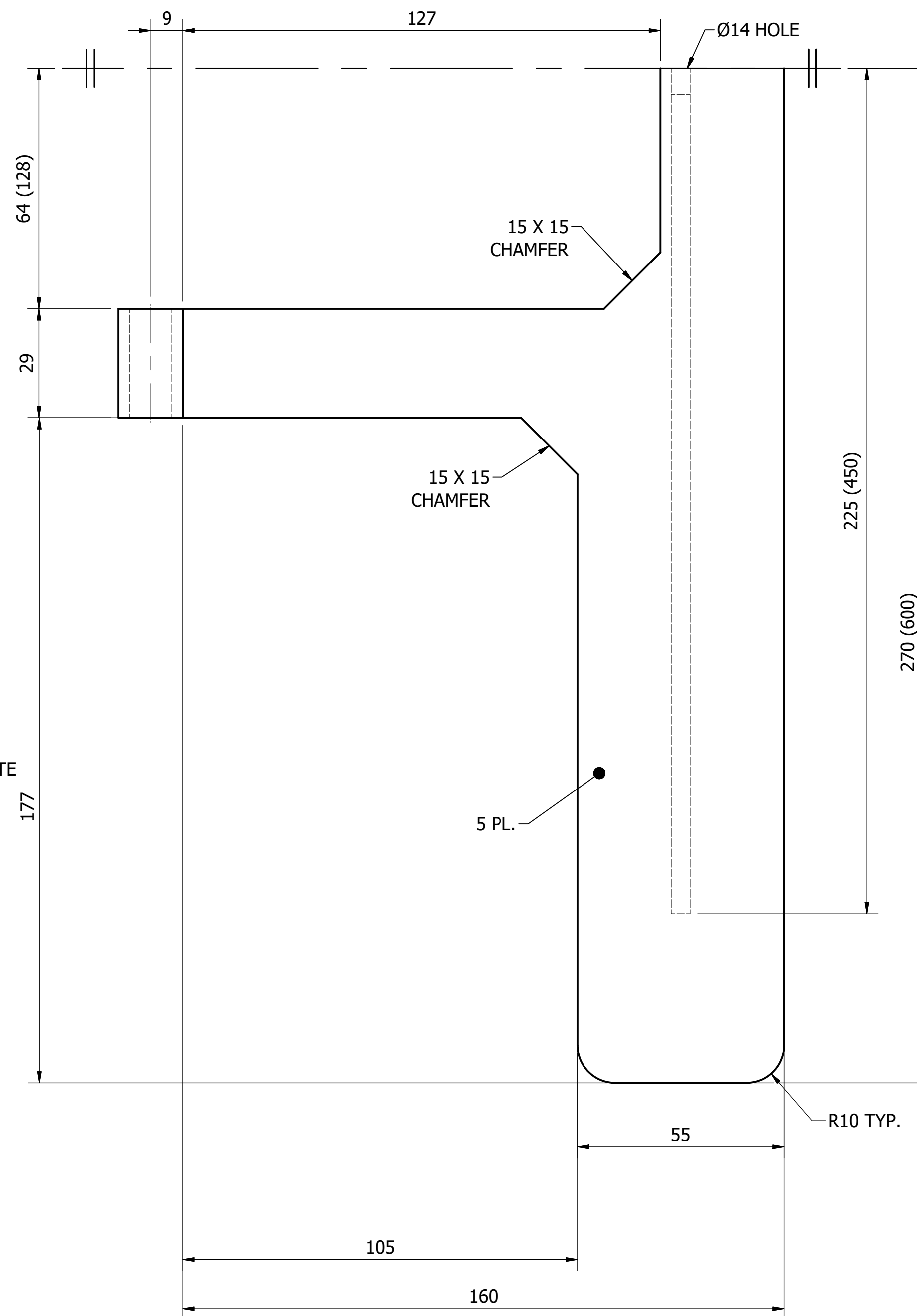


BACK VIEW

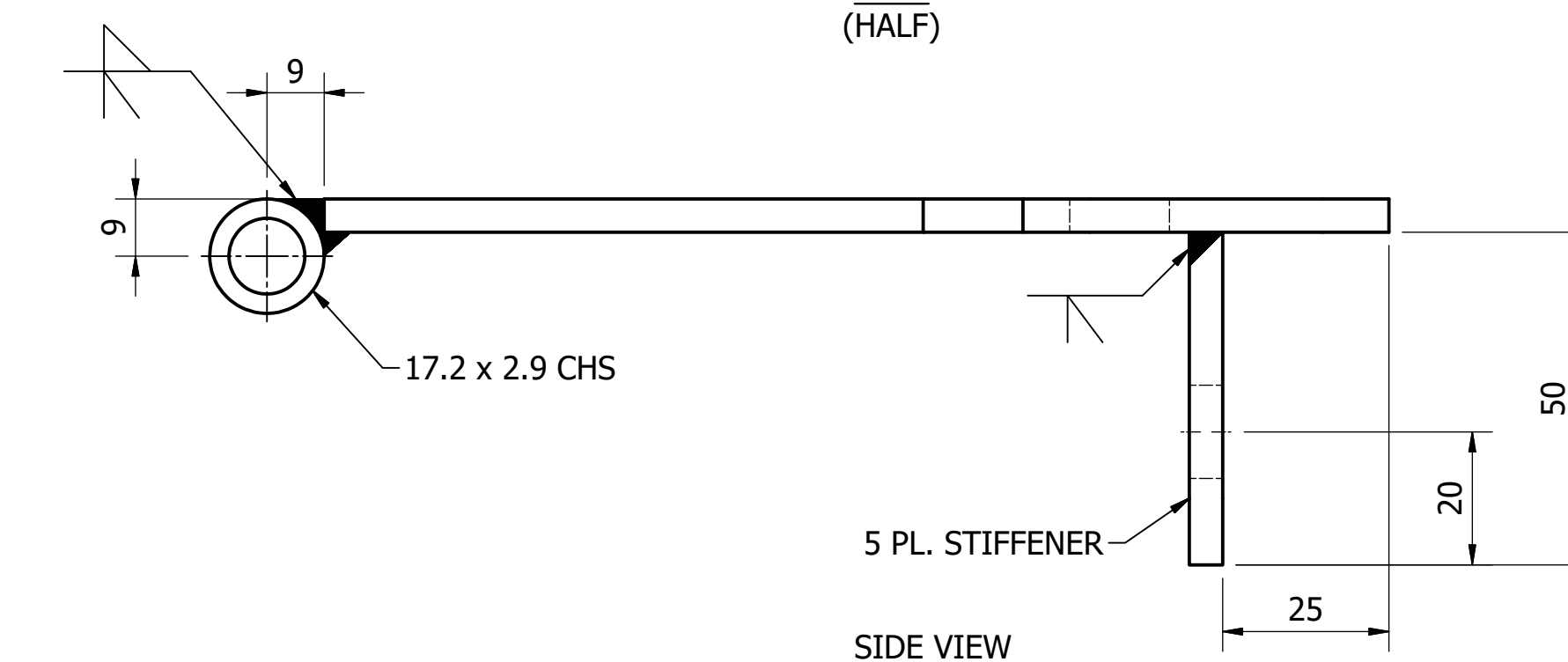


LOCK BOX - STANCHION LOCKING BAR TYPE
SCALE: 1 : 1

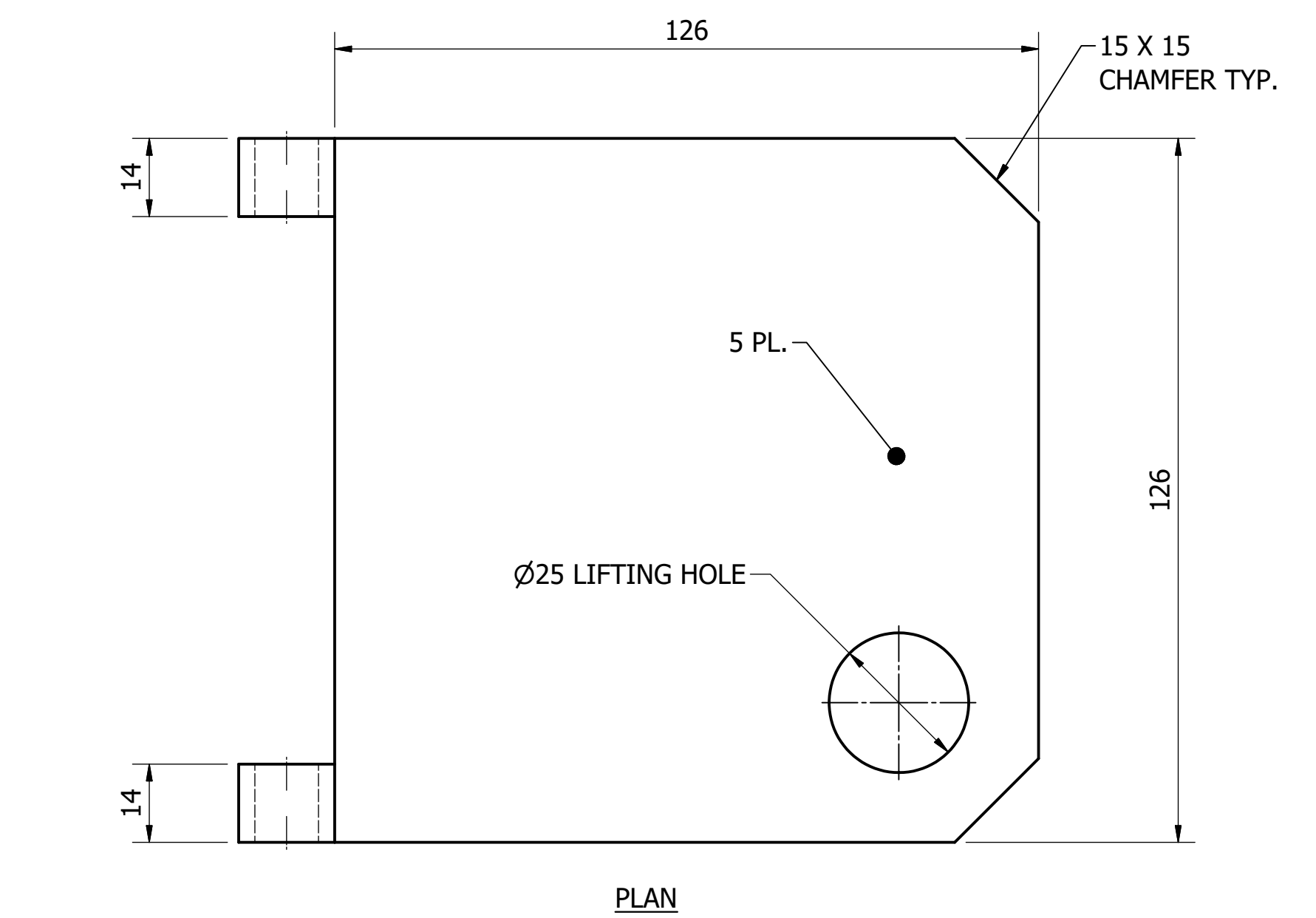
MATERIAL: CARBON STEEL / STAINLESS STEEL
COATING: HOT DIP GALVANISED (CARBON STEEL PARTS ONLY)
FINISH COLOUR: N/A
MASS: 7 kg



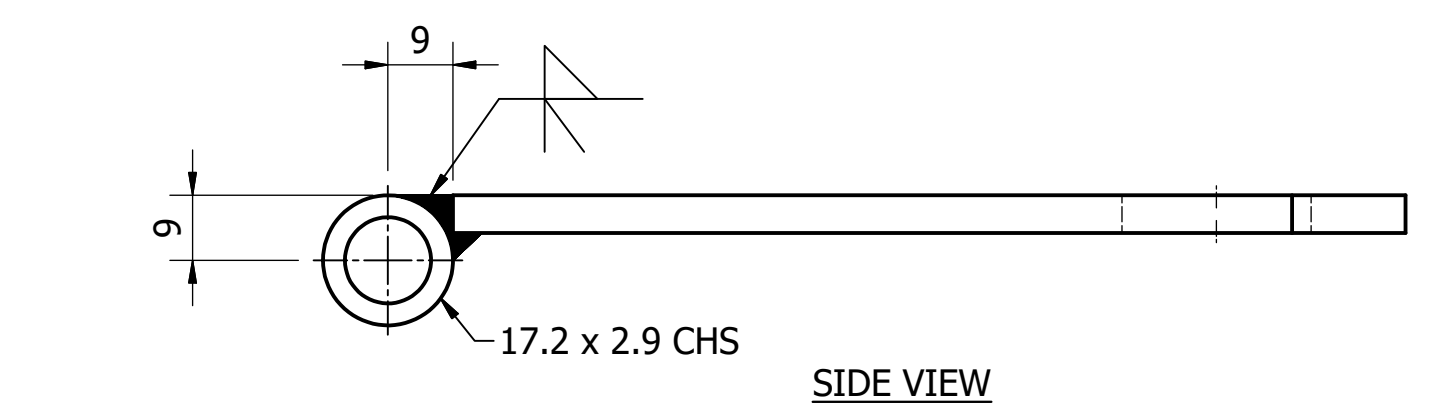
STANCHION LOCKING BAR
SCALE: 1 : 1



SIDE VIEW

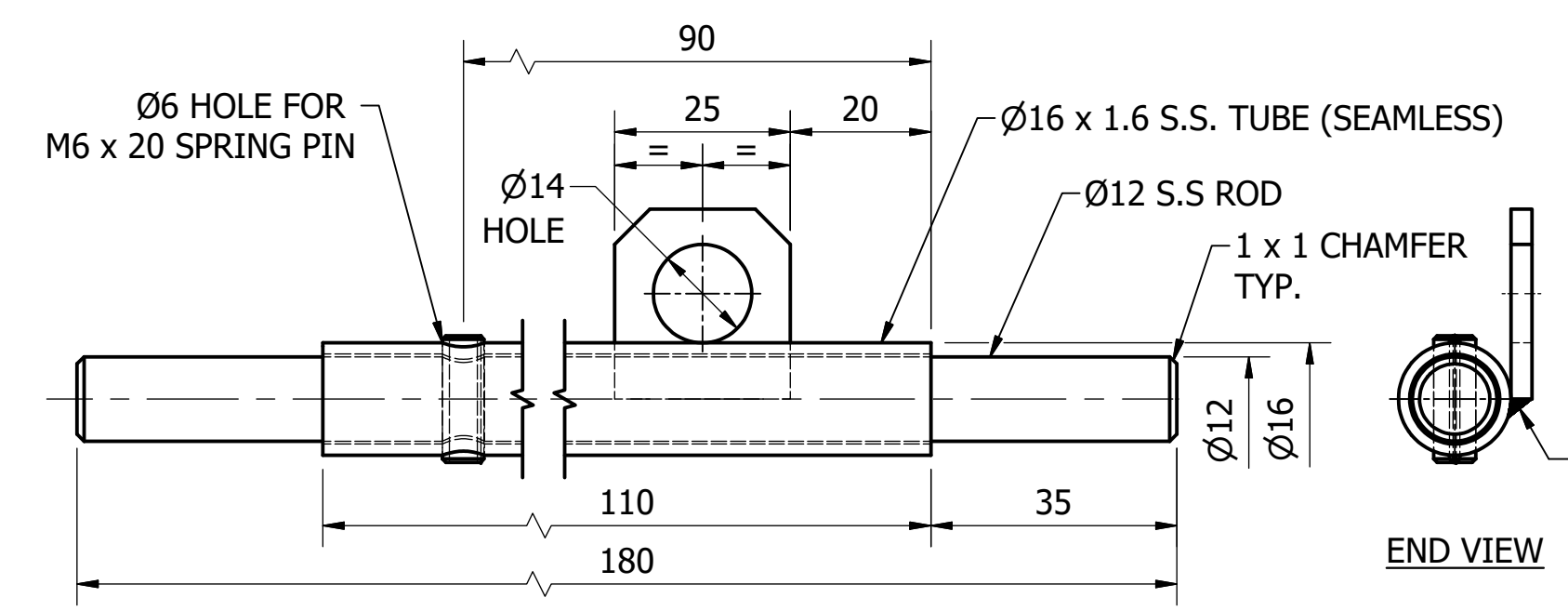


PLAN

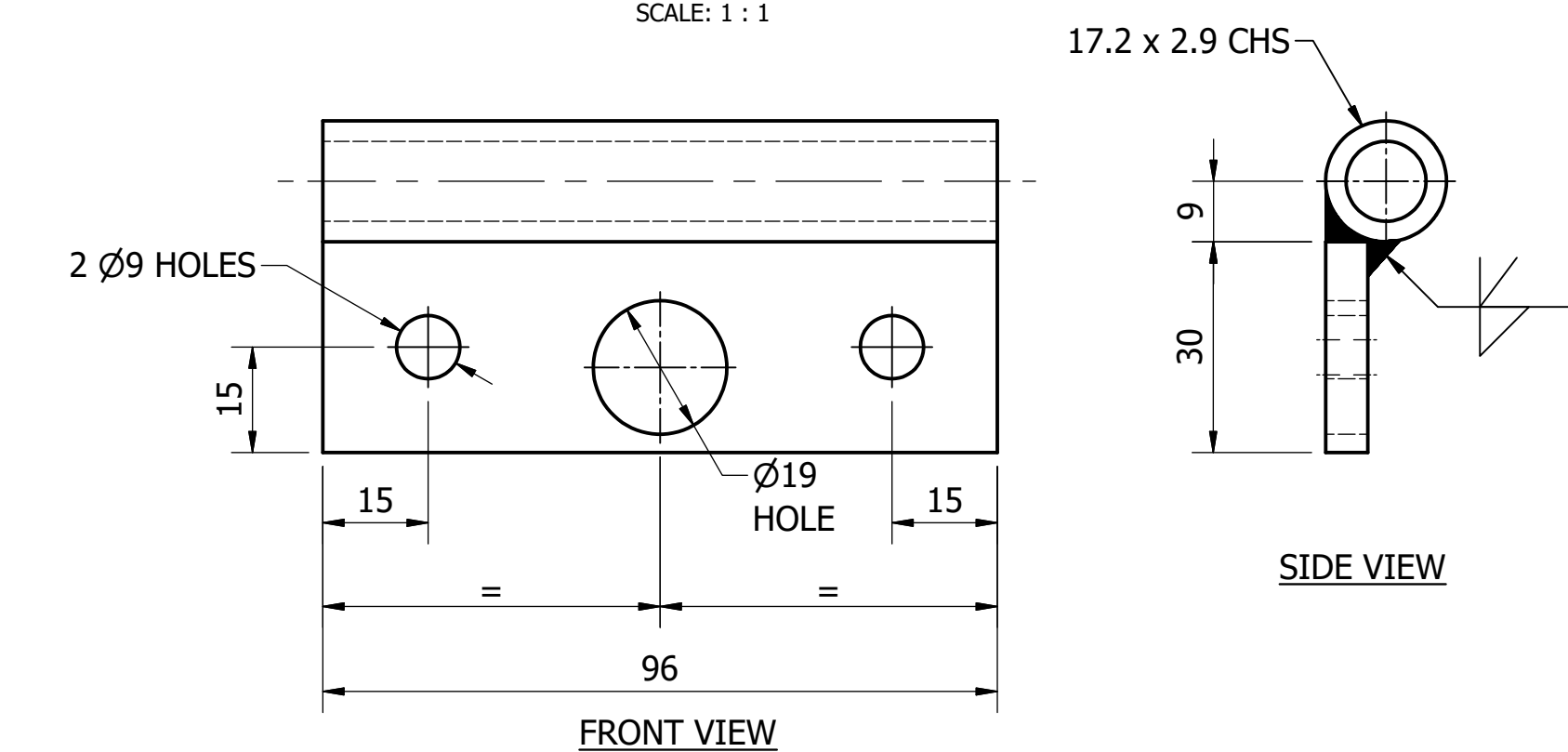


SIDE VIEW

LID
SCALE: 1 : 1



SIDE VIEW
SLIDE BOLT
SCALE: 1 : 1



FRONT VIEW
HINGE
SCALE: 1 : 1

NOTES:

1. FOR GALVANISED STEEL ACCESS COVER NOTES REFER TO DRAWING SD-8230.

ITEM	AMDT.
PN826701	

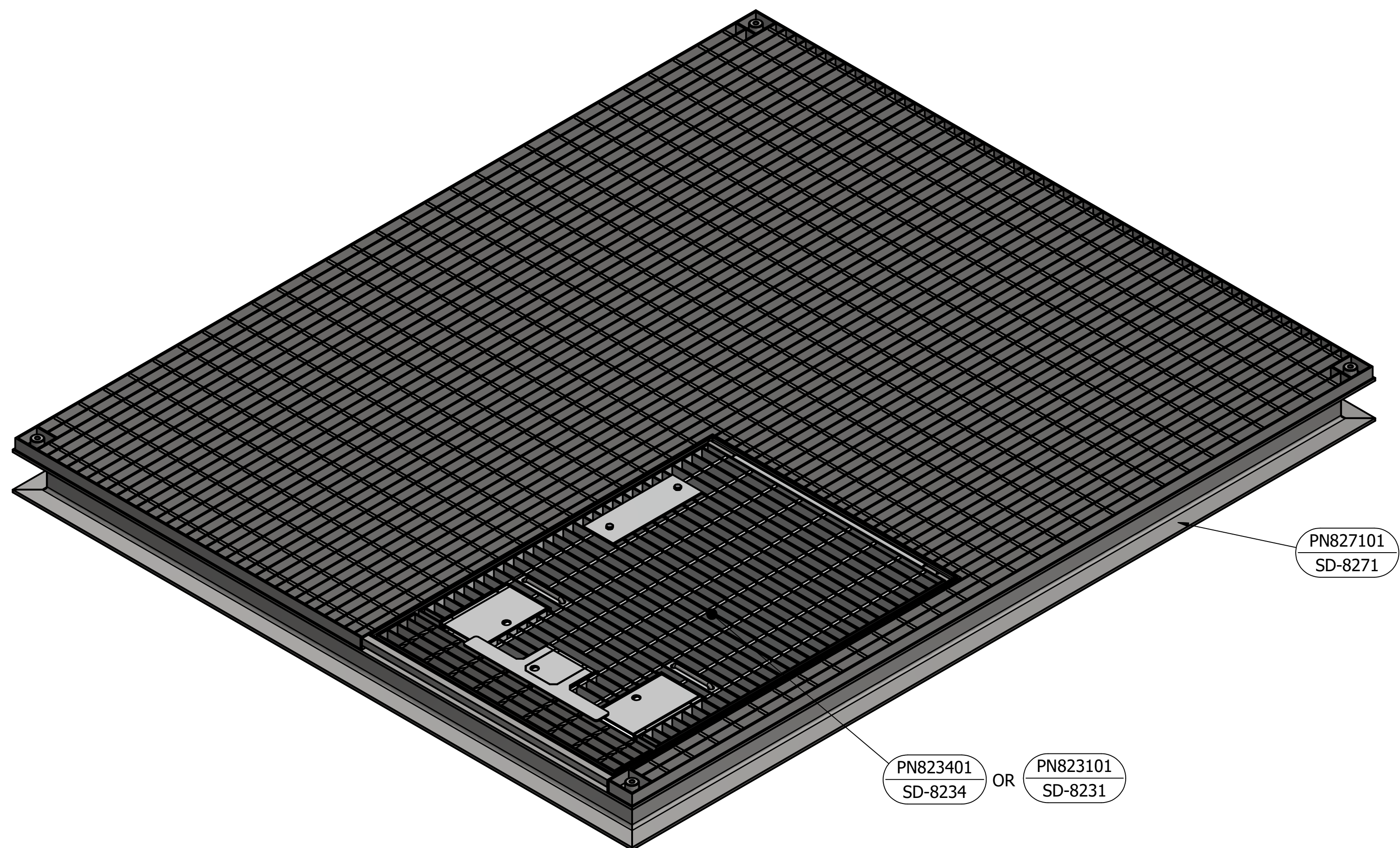
No.	ISSUE	DATE	DRAWN	CHECKED	AUTHORISED
A	INITIAL ISSUE	15/06/2018	M. Matusiak	K. Danenbergsons	D. Eager

DAM	RES	SPS
BWS	WAT	STP
WTP	SEW	
WPS	REC	



STANDARD DRAWING
ACCESS COVERS - HOT DIP GALVANISED STEEL, HINGED
LOCK BOX - STANCHION LOCKING BAR TYPE
DETAILS

DRAWING STATUS	
Current	
SD-8267-D	
A1	ISSUE A

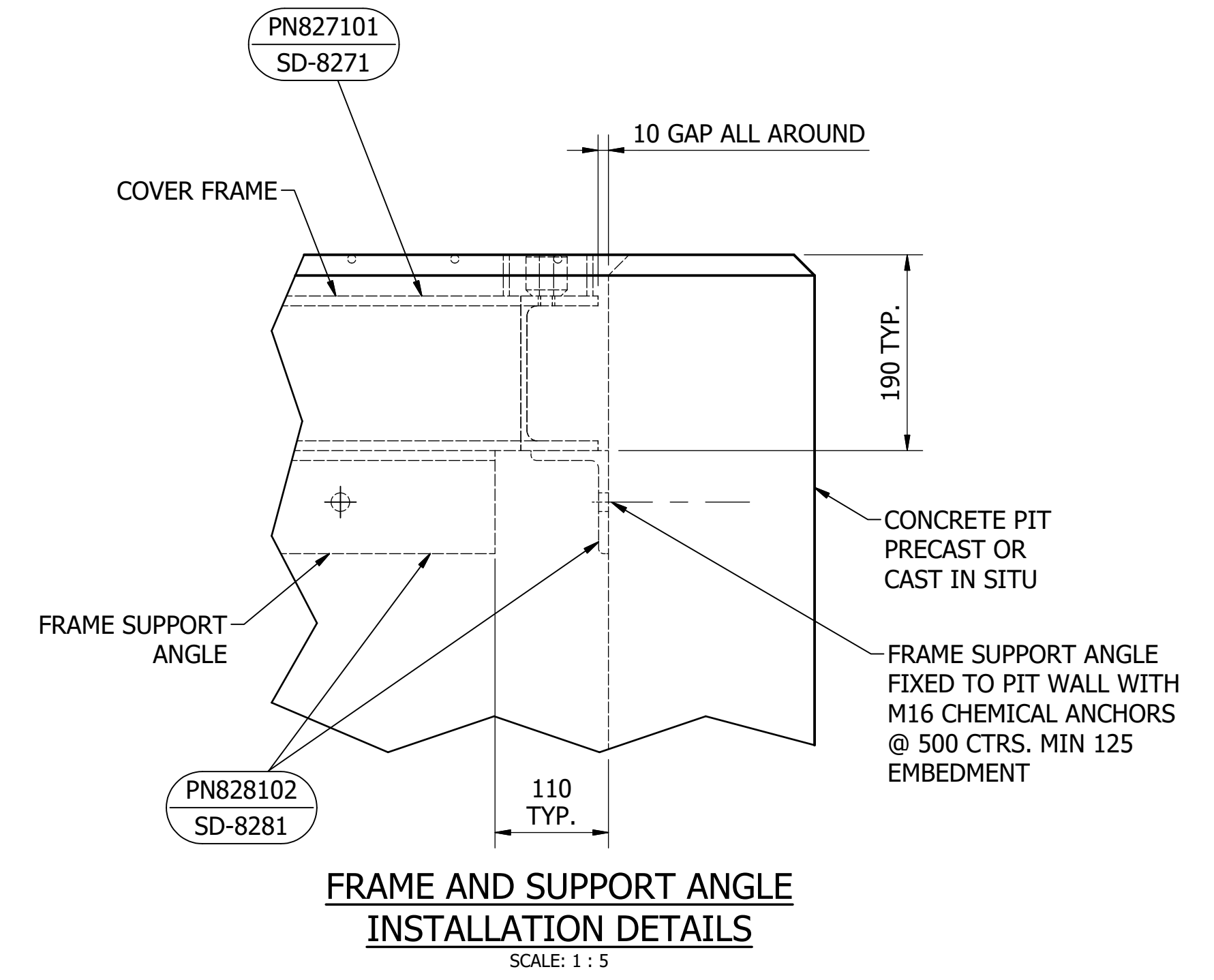


ISOMETRIC VIEW
 "DROP-IN" PIT COVER
 INCL. HINGED ACCESS HATCH
 SCALE: 1 : 10

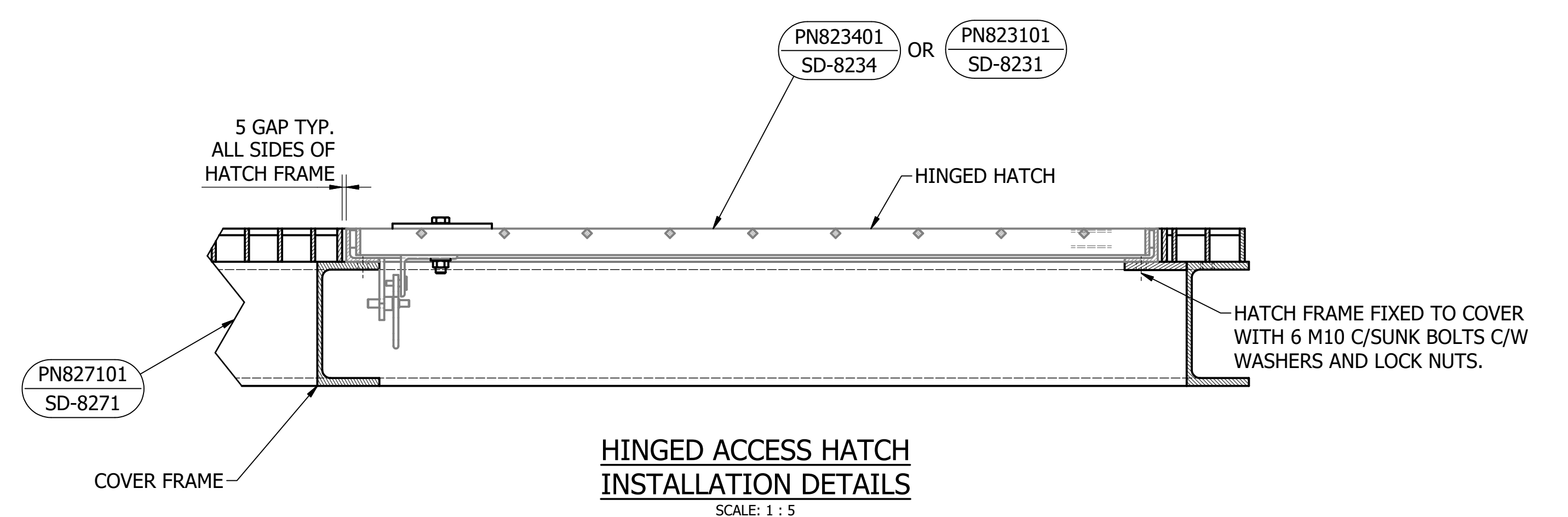
MATERIAL: CARBON STEEL
 COATING: HOT DIP GALVANISED
 FINISH COLOUR: N/A
 MASS: 600 kg INCL. HATCH (3 m x 2.5 m)

NOTES:

1. THE DESIGNER IS TO DETERMINE THE MAXIMUM WIDTH AND LENGTH OF THE "DROP-IN" PIT COVER NOTING THE REQUIRED DESIGN LOADS SPECIFIC TO THE PROJECT.



FRAME AND SUPPORT ANGLE
 INSTALLATION DETAILS
 SCALE: 1 : 5



HINGED ACCESS HATCH
 INSTALLATION DETAILS
 SCALE: 1 : 5

ITEM	AMDT.
PN827001	

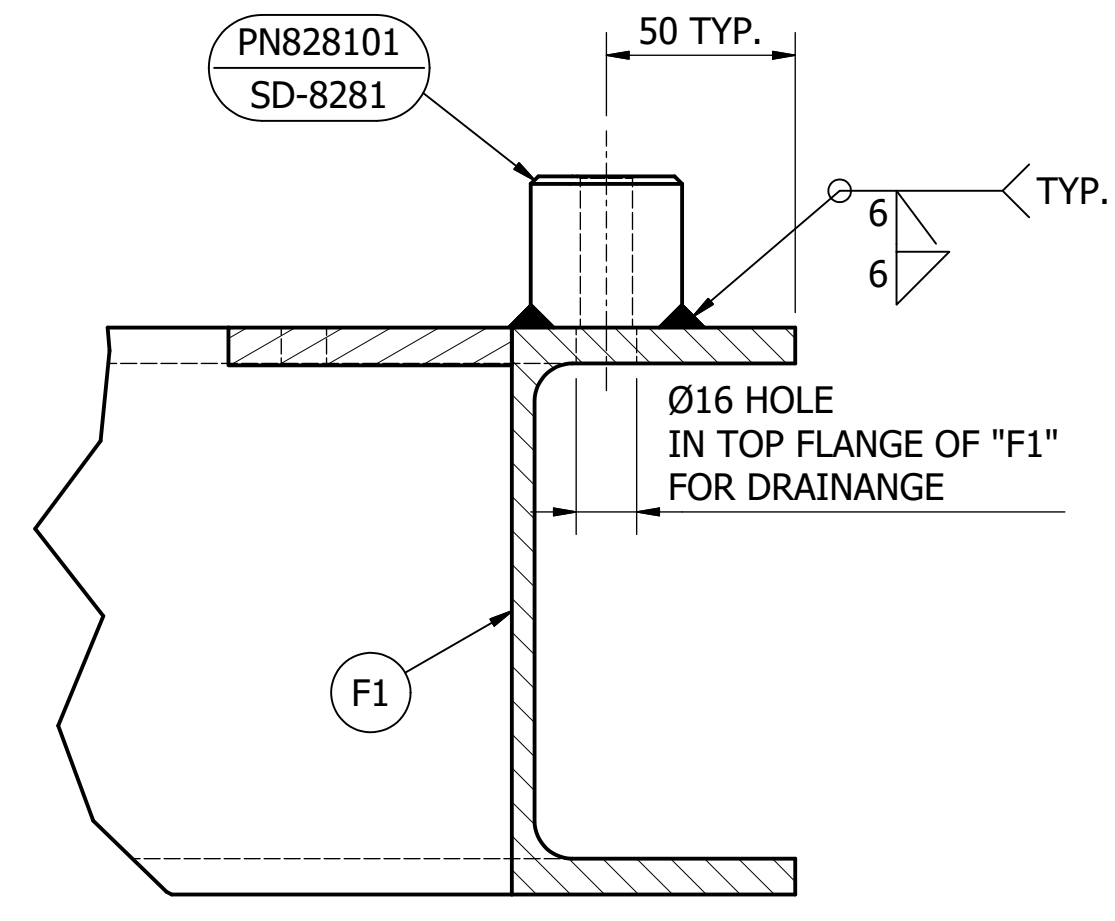
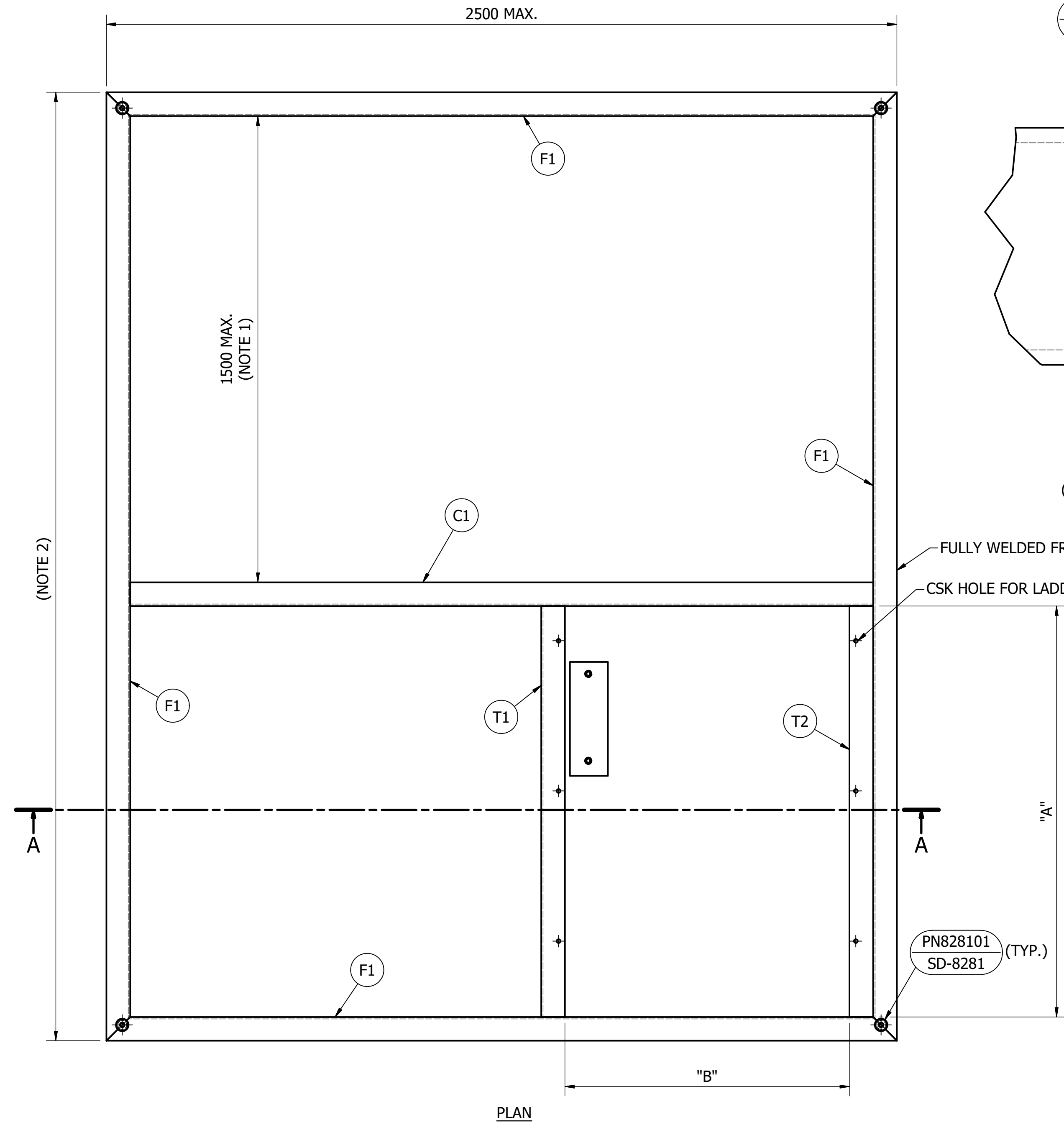
No.	ISSUE	DATE	DRAWN	CHECKED	AUTHORISED
A	INITIAL ISSUE	15/06/2018	M. Matusiak	K. Danenbergson	D. Eager
B	PIT COVER DIMENSIONS ADDED TO MASS, NOTE 1 ADDED	19/06/2019	S. Essery	K. Danenbergson	C. Patrick

ASSET AREA APPLICABILITY			
DAM	<input checked="" type="checkbox"/>	RES	<input checked="" type="checkbox"/>
BWS	<input checked="" type="checkbox"/>	WAT	<input checked="" type="checkbox"/>
WTP	<input checked="" type="checkbox"/>	SEW	<input checked="" type="checkbox"/>
WPS	<input checked="" type="checkbox"/>	REC	<input checked="" type="checkbox"/>

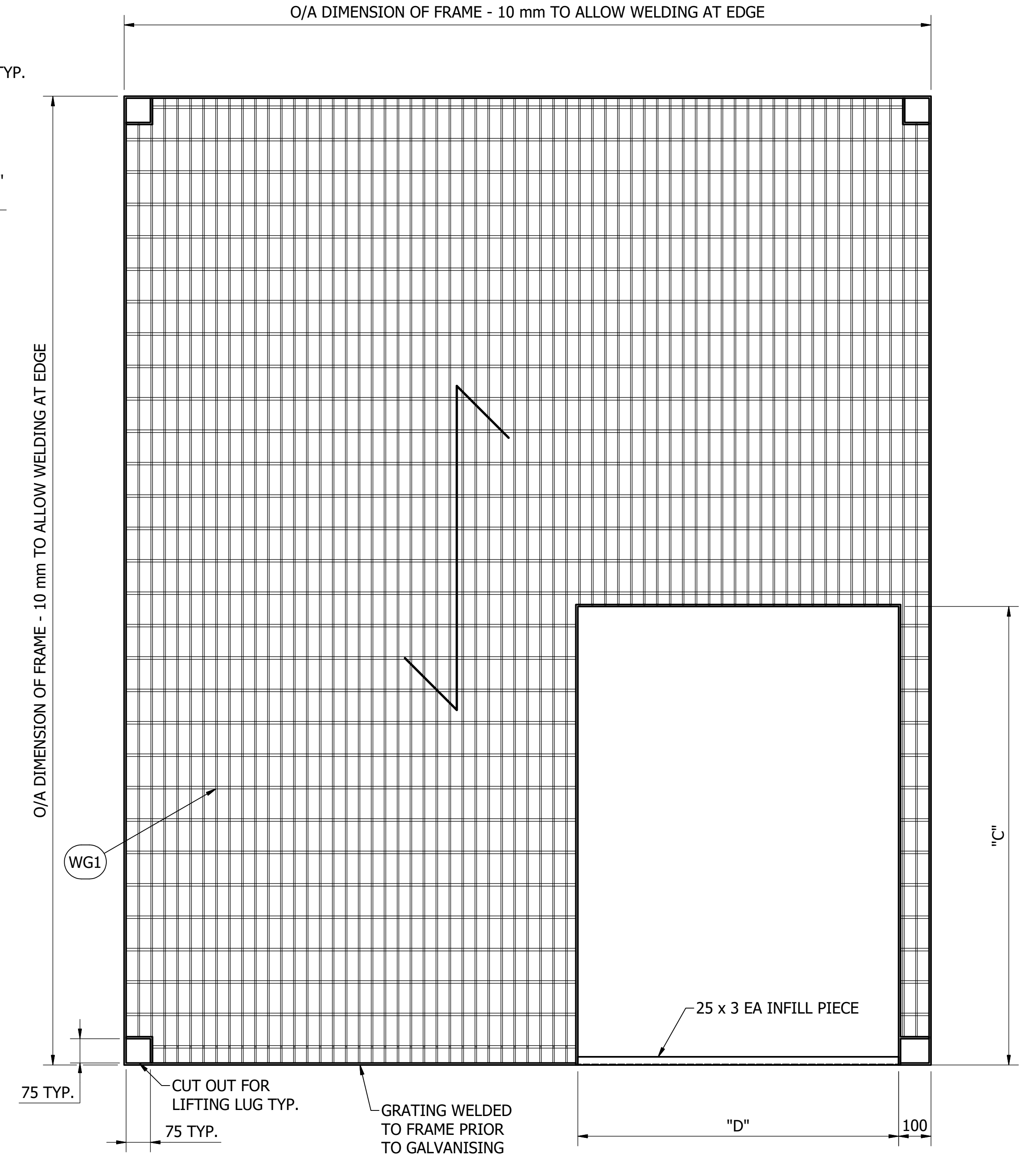


STANDARD DRAWING
 ACCESS COVERS - HOT DIP GALVANISED STEEL
 DROP IN FRAME
 TYPICAL ARRANGEMENT

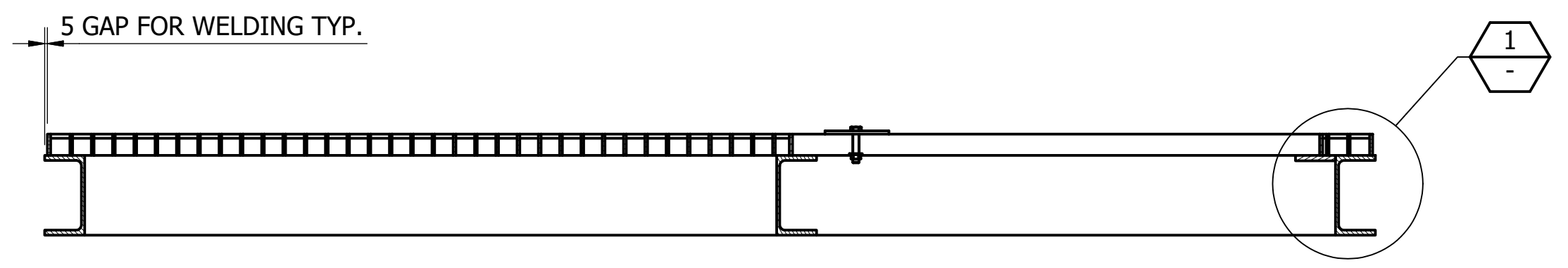
DRAWING STATUS	
Current	
SD-8270-C	
A1	ISSUE B
© Icon Water 2017	



DETAIL 1
EYE BOLT RECIEVER
FOR LIFTING
 (GRATING OMMITED FOR CLARITY)
 SCALE: 1 : 2



PLAN
GRATING PANNEL
 SCALE: 1 : 10



SECTION A-A
"DROP IN" PIT COVER - FRAME
 (GRATING OMMITED FOR CLARITY
 REFER GRATING DETAIL)
 SCALE: 1 : 10
 MATERIAL: CARBON STEEL
 COATING: HOT DIP GALVANISED
 FINISH COLOUR: N/A
 MASS: 550 kg W/O HATCH

MEMBER SCHEDULE		
MARK	DESCRIPTION	SECTION
F1	OUTER FRAME	150 PFC
C1	CROSS MEMBER	150 PFC
T1	HATCH TRIMMER	150 PFC
T2	HATCH TRIMMER	75 x 10 FL
WG1	WEBFORGE GRATING	C405MPU

DIMENSION VARIABLES		
DIMENSION	INCLINED LADDER	VERTICAL LADDER
A	1300	1000
B	900	900
C	1415	1115
D	990	990

NOTES:

1. MAXIMUM SPAN TO SUIT "WEBFORGE" C405 GRATING, IF DIM IS >1500 mm ADDITIONAL CROSS MEMBER(S) REQUIRED.
2. MAXIMUM LENGTH TO BE DETERMINED BY DESIGN ENGINEER.
3. LADDER HATCH FIXING HOLE LOCATIONS ARE DEPENDED ON HATCH TYPE. LOCATIONS TO BE CONFIRMED PRIOR TO FABRICATION.

ITEM	AMDT.
PN827101	

No.	ISSUE	DATE	DRAWN	CHECKED	AUTHORISED
A	INITIAL ISSUE	15/06/2018	M. Matusiak	K. Danenbergsons	D. Eager

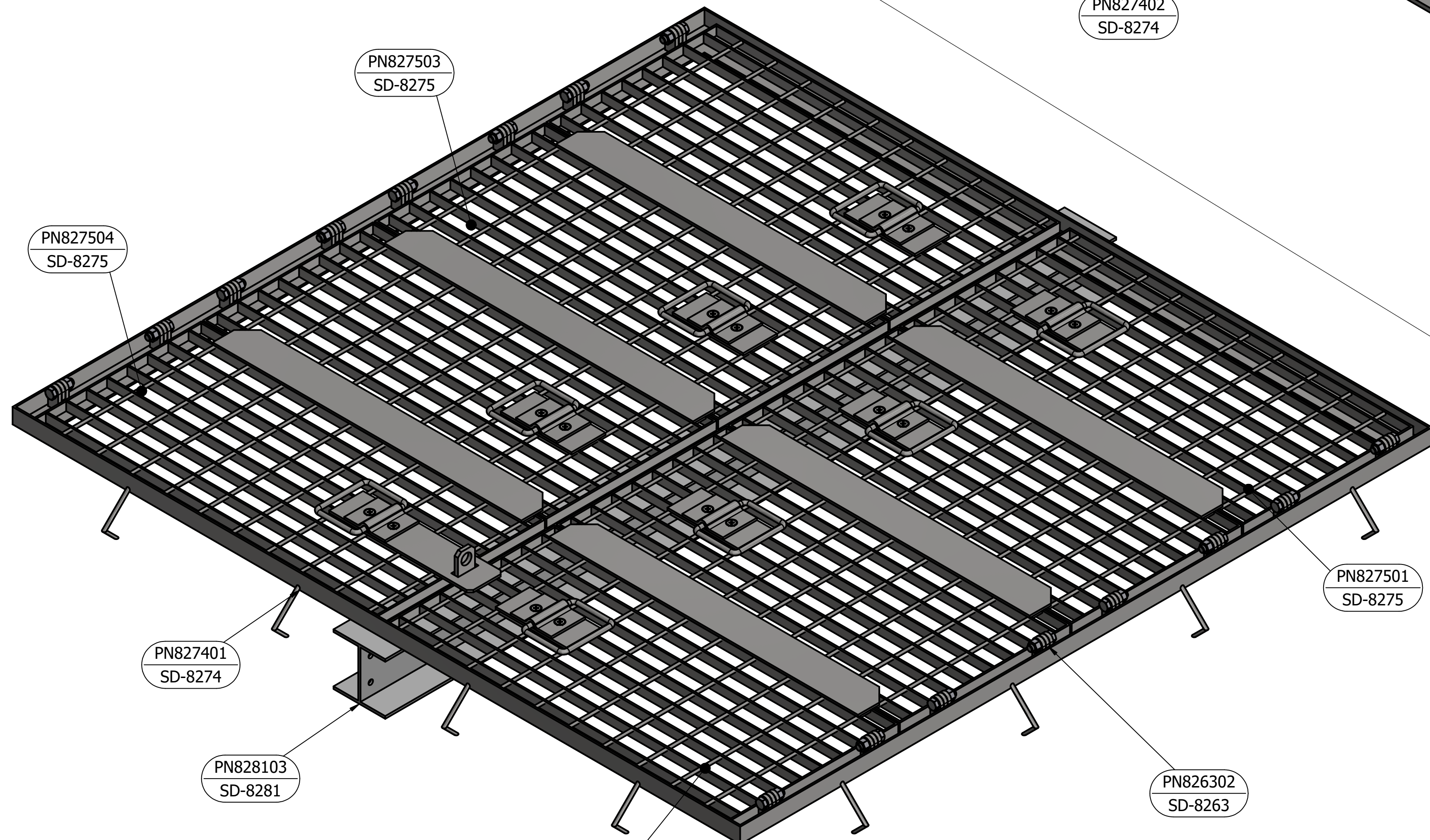
DAM	<input checked="" type="checkbox"/>	RES	<input checked="" type="checkbox"/>	SPS	<input type="checkbox"/>
BWS	<input checked="" type="checkbox"/>	WAT	<input checked="" type="checkbox"/>	STP	<input type="checkbox"/>
WTP	<input checked="" type="checkbox"/>	SEW	<input checked="" type="checkbox"/>		<input type="checkbox"/>
WPS	<input checked="" type="checkbox"/>	REC	<input checked="" type="checkbox"/>		<input type="checkbox"/>



STANDARD DRAWING
 ACCESS COVERS - HOT DIP GALVANISED STEEL
 DROP IN FRAME
 DETAILS

DRAWING STATUS		Current
SD-8271-C		ISSUE A
A1	© Icon Water 2017	

PARTS LIST		
PART NUMBER	DESCRIPTION	REFERENCE
PN827401	GRATED HATCH FRAME	SD-8274
PN827501	GRATED HATCH	SD-8275
PN827502	GRATED HATCH W/ KEEPER PLATE RIGHT	SD-8275
PN827503	GRATED HATCH W/ KEEPER PLATE LEFT	SD-8275
PN827504	GRATED HATCH W/ KEEPER PLATE LEFT AND LOCKING LUG	SD-8275
PN828103	CENTRE SUPPORT	SD-8281
PN826302	FOLD FLAT HINGE	SD-8263



GRATED HATCH COVER ASSEMBLY

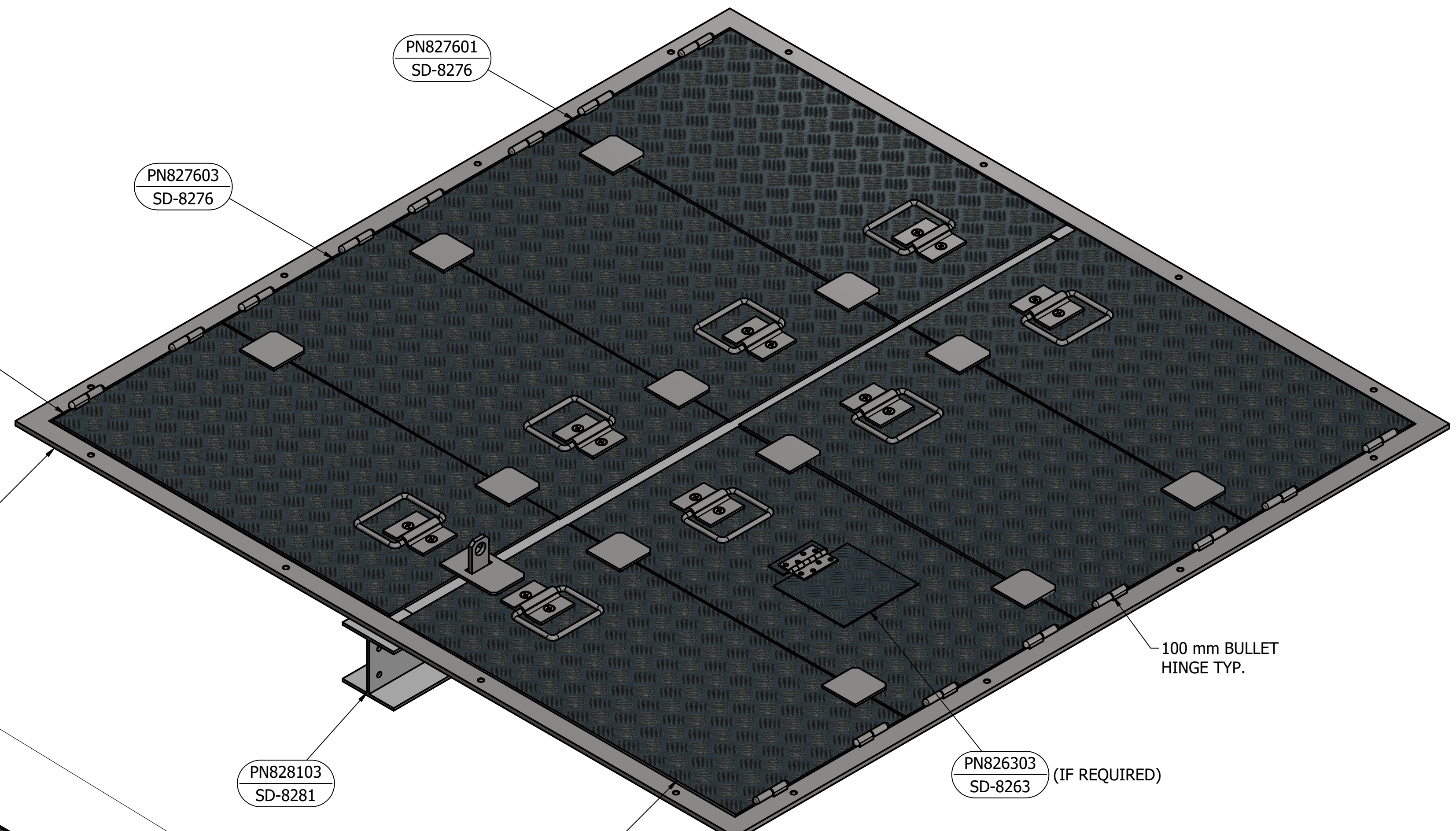


PLATE HATCH COVER ASSEMBLY

PARTS LIST		
PART NUMBER	DESCRIPTION	REFERENCE
PN827402	PLATE HATCH FRAME	SD-8274
PN827601	PLATE HATCH	SD-8276
PN827602	PLATE HATCH WITH KEEPER PLATE RIGHT	SD-8276
PN827603	PLATE HATCH WITH KEEPER PLATE LEFT	SD-8276
PN827604	PLATE HATCH WITH KEEPER PLATE LEFT AND LOCKING LUG	SD-8276
PN828103	CENTRE SUPPORT	SD-8281
PN826303	INSPECTION HATCH	SD-8263

ITEM	AMDT.
PN827301	

ITEM	AMDT.
PN827302	

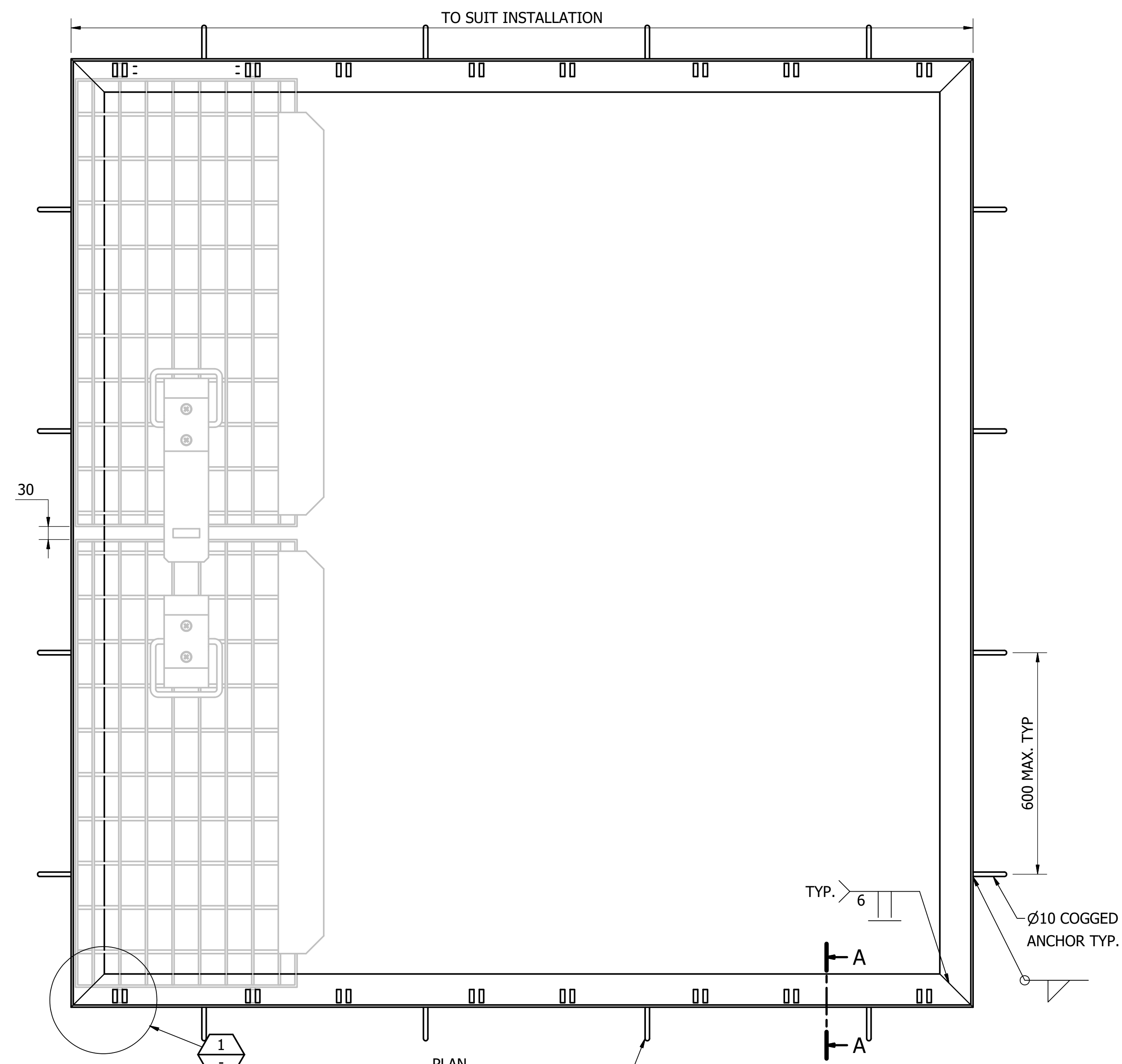
No.	ISSUE	DATE	DRAWN	CHECKED	AUTHORISED
A	INITIAL ISSUE	15/06/2018	S. Essery	K. Danenbergsons	D. Eager

DAM	RES	SPS
BWS	WAT	STP
WTP	SEW	
WPS	REC	

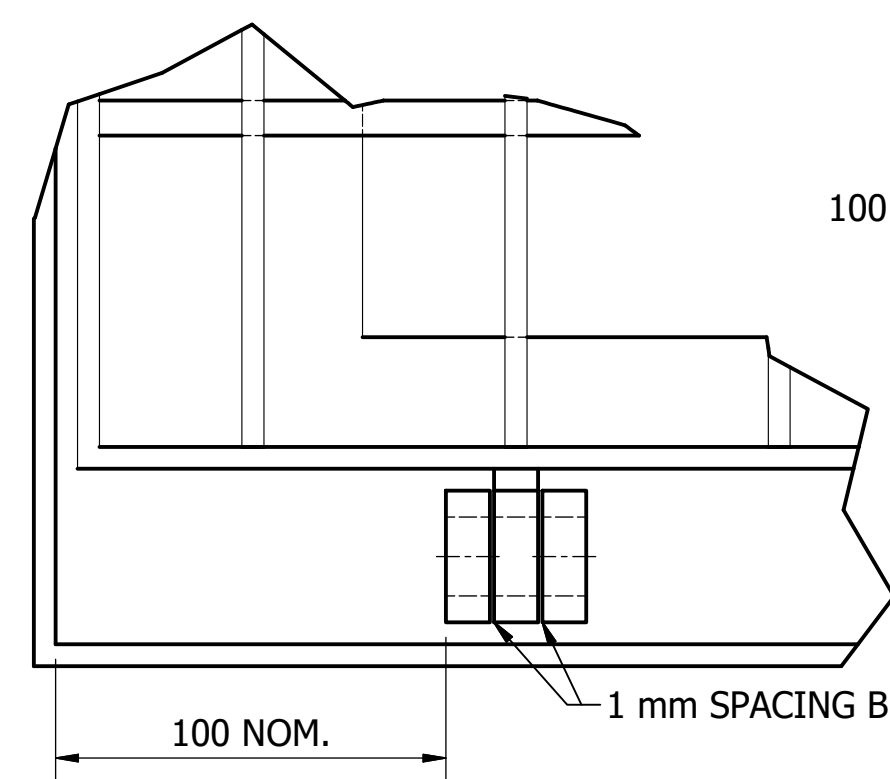


STANDARD DRAWING
ACCESS COVERS - HOT DIP GALVANISED STEEL
FIXED FRAME (FOLD FLAT) COVER
TYPICAL ARRANGEMENTS

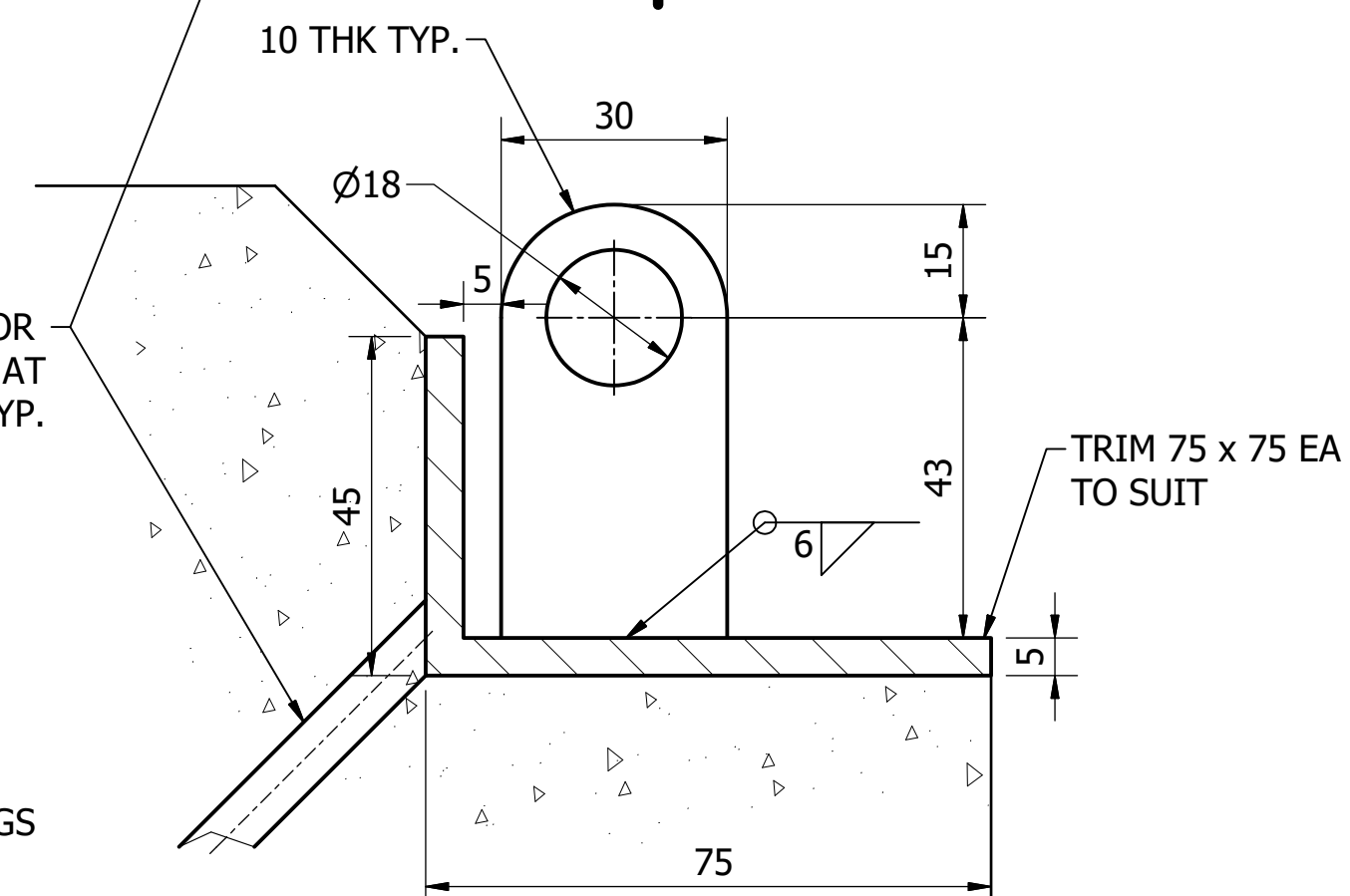
DRAWING STATUS	Current
ISSUE	SD-8273-C
ISSUE	Icon Water 2017



PLAN

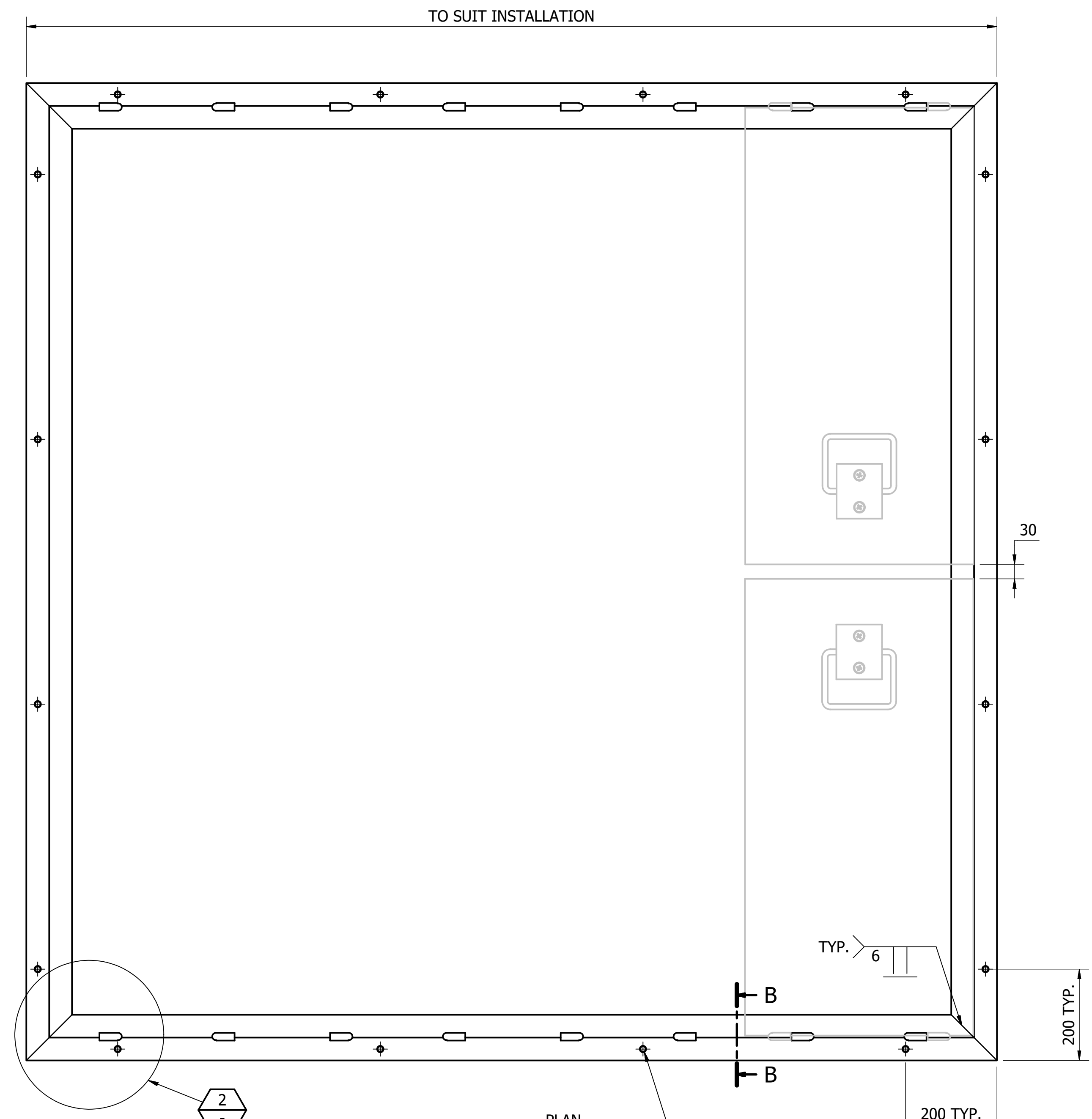


DETAIL 1

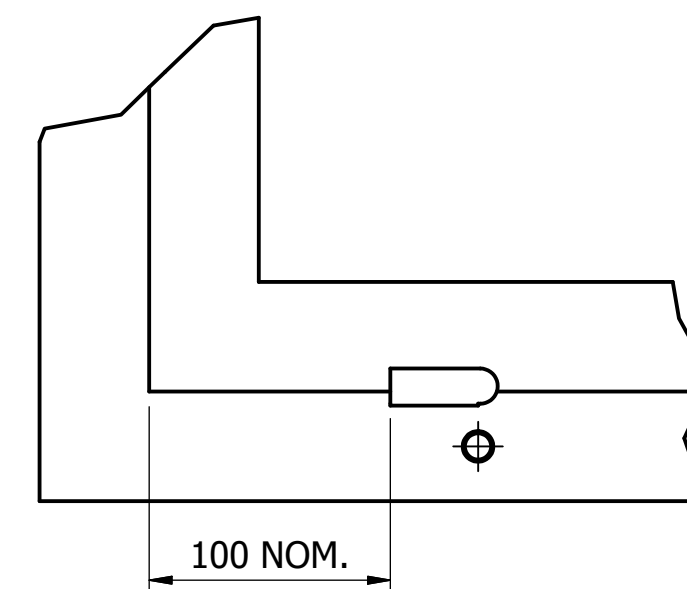


SECTION A-A
HINGE TAB

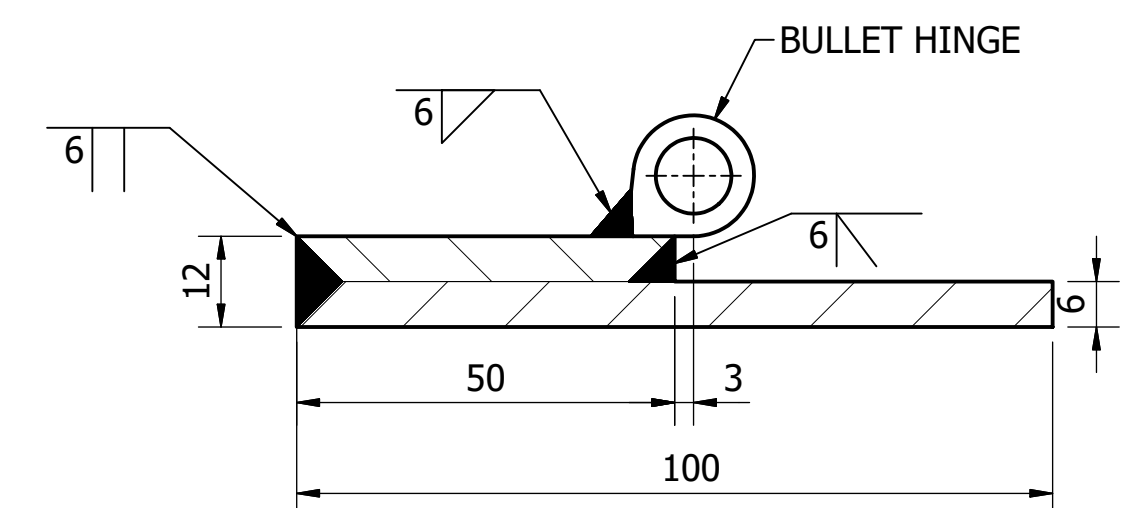
GRATE STYLE HATCH FRAME



PLAN



DETAIL 2



SECTION B-B

PLATE STYLE HATCH FRAME

ITEM	AMDT.
PN827401	

No.	ISSUE	DATE	DRAWN	CHECKED	AUTHORISED
A	INITIAL ISSUE	15/06/2018	S. Essery	K. Danenbergson	D. Eager

ASSET AREA APPLICABILITY				
DAM	RES	SPS		
BWS	WAT	STP		
WTP	SEW			
WPS	REC			

ITEM	AMDT.
PN827402	

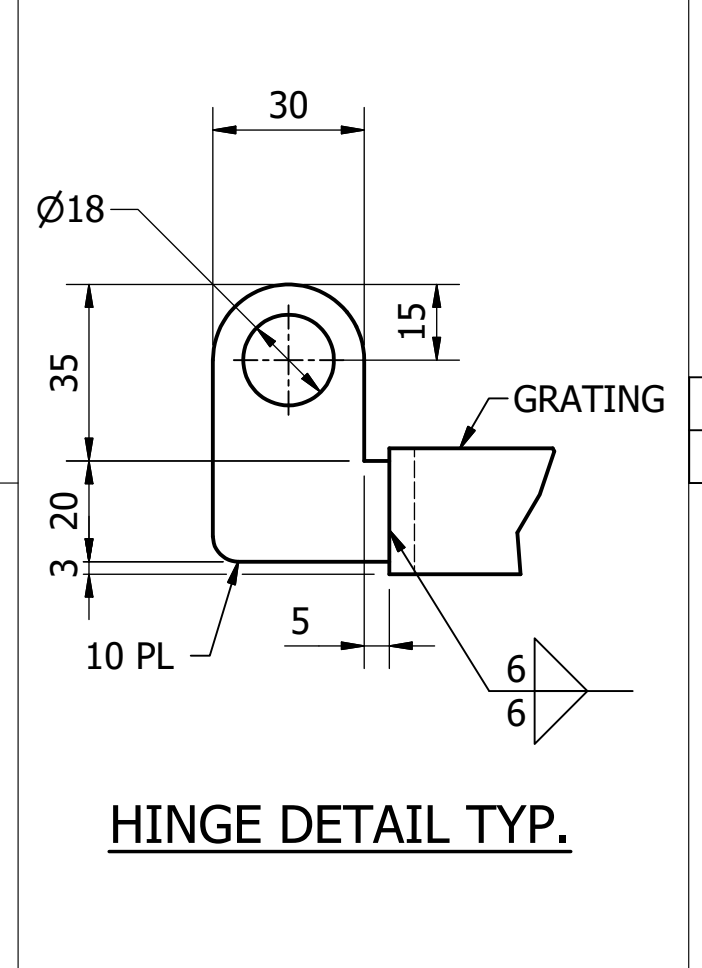
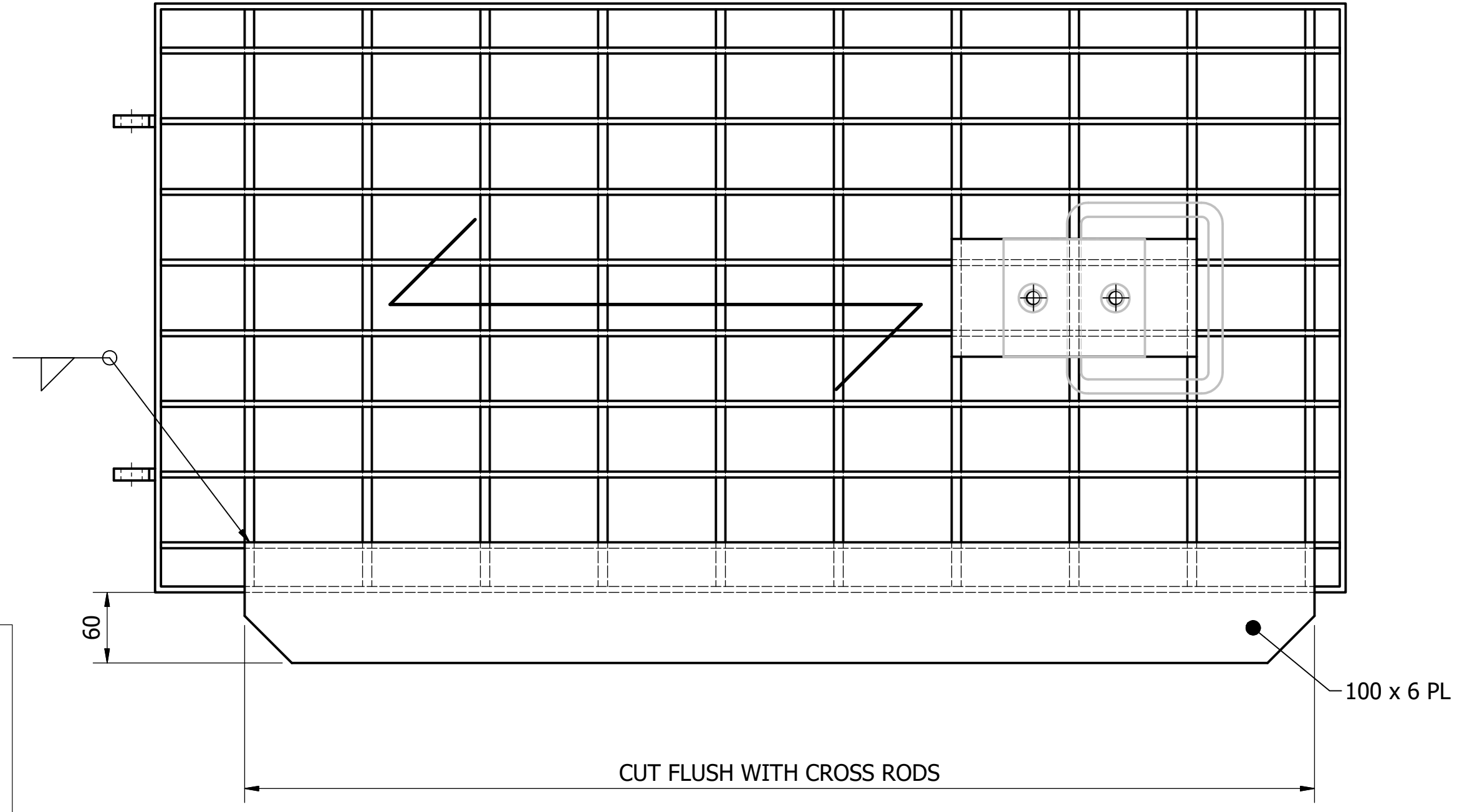
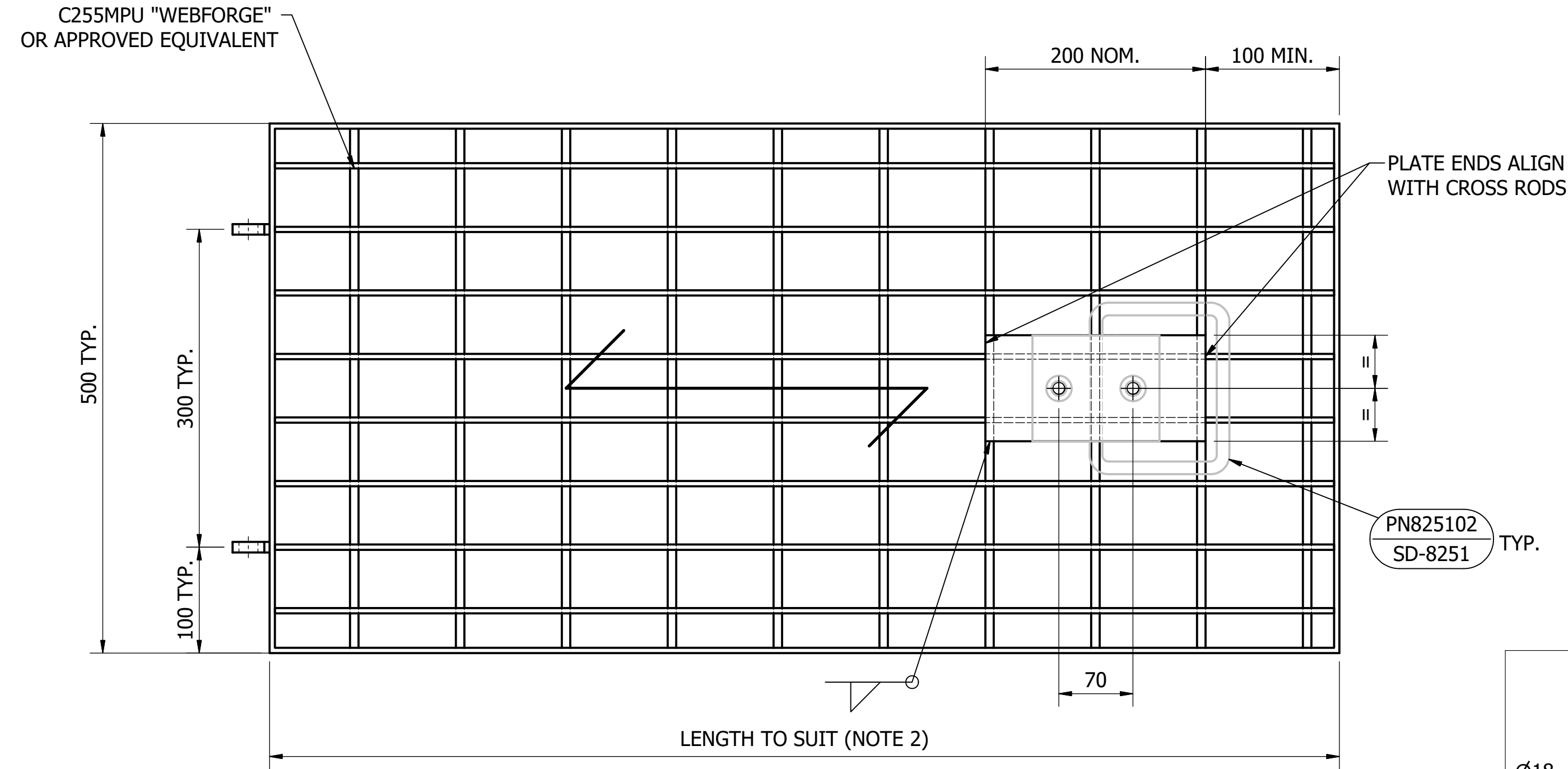
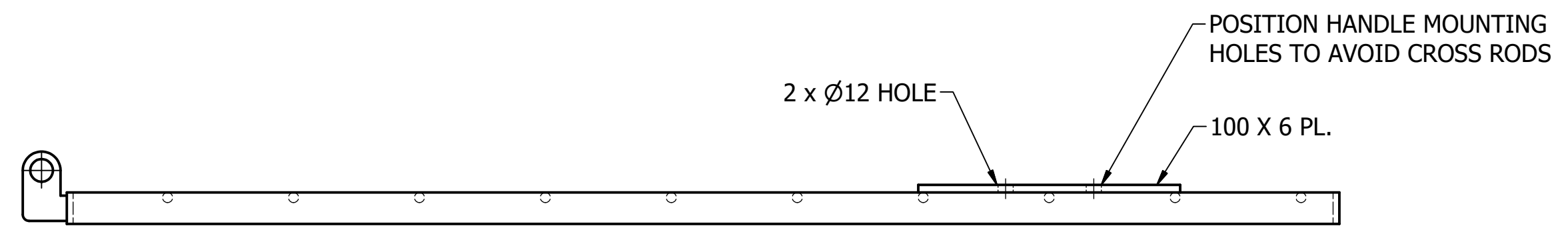


STANDARD DRAWING
ACCESS COVERS - HOT DIP GALVANISED STEEL
FIXED FRAME (FOLD FLAT) COVER
FRAME DETAILS

DRAWING STATUS	
Current	
SD-8274-C	ISSUE A
© Icon Water 2017	

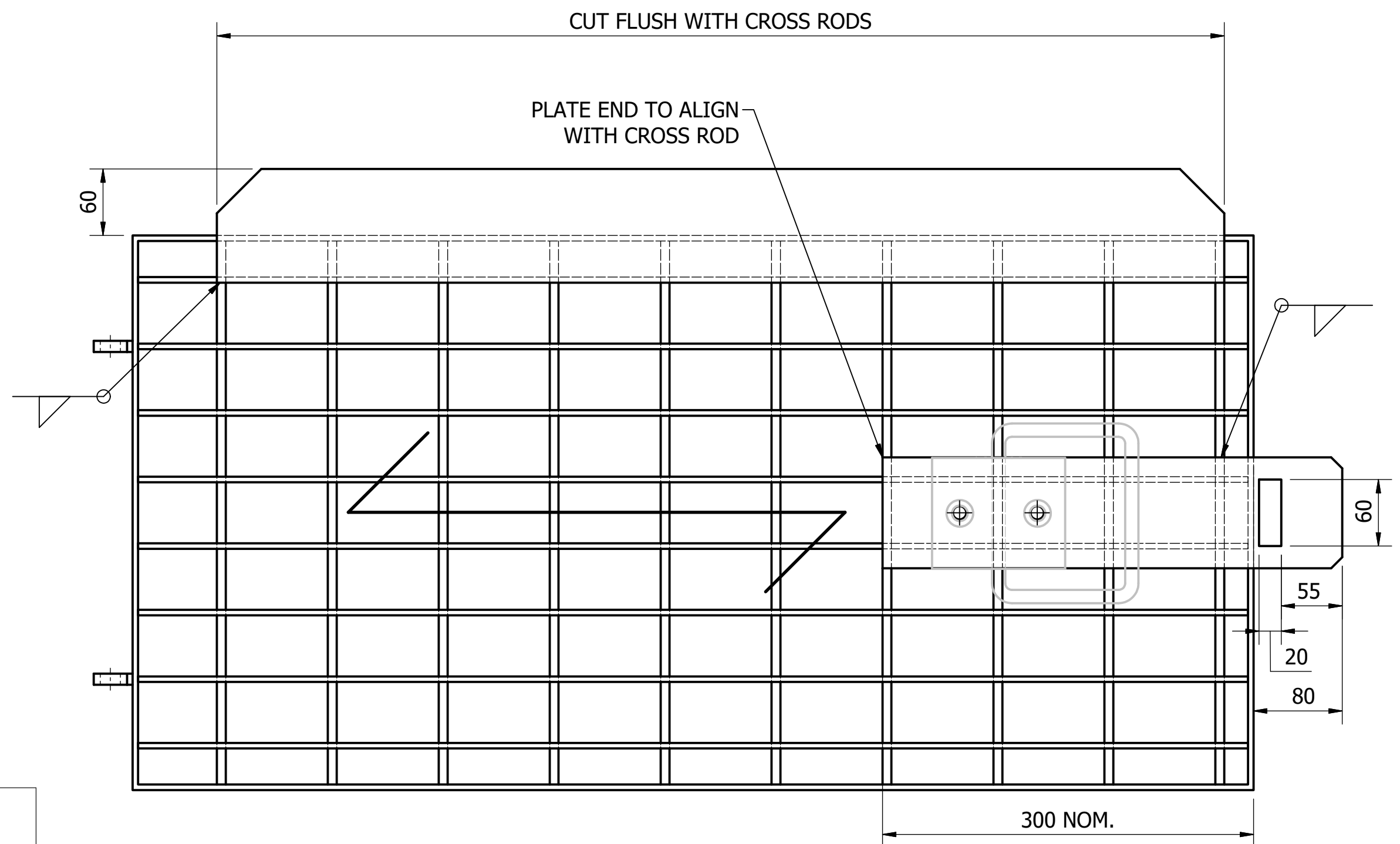
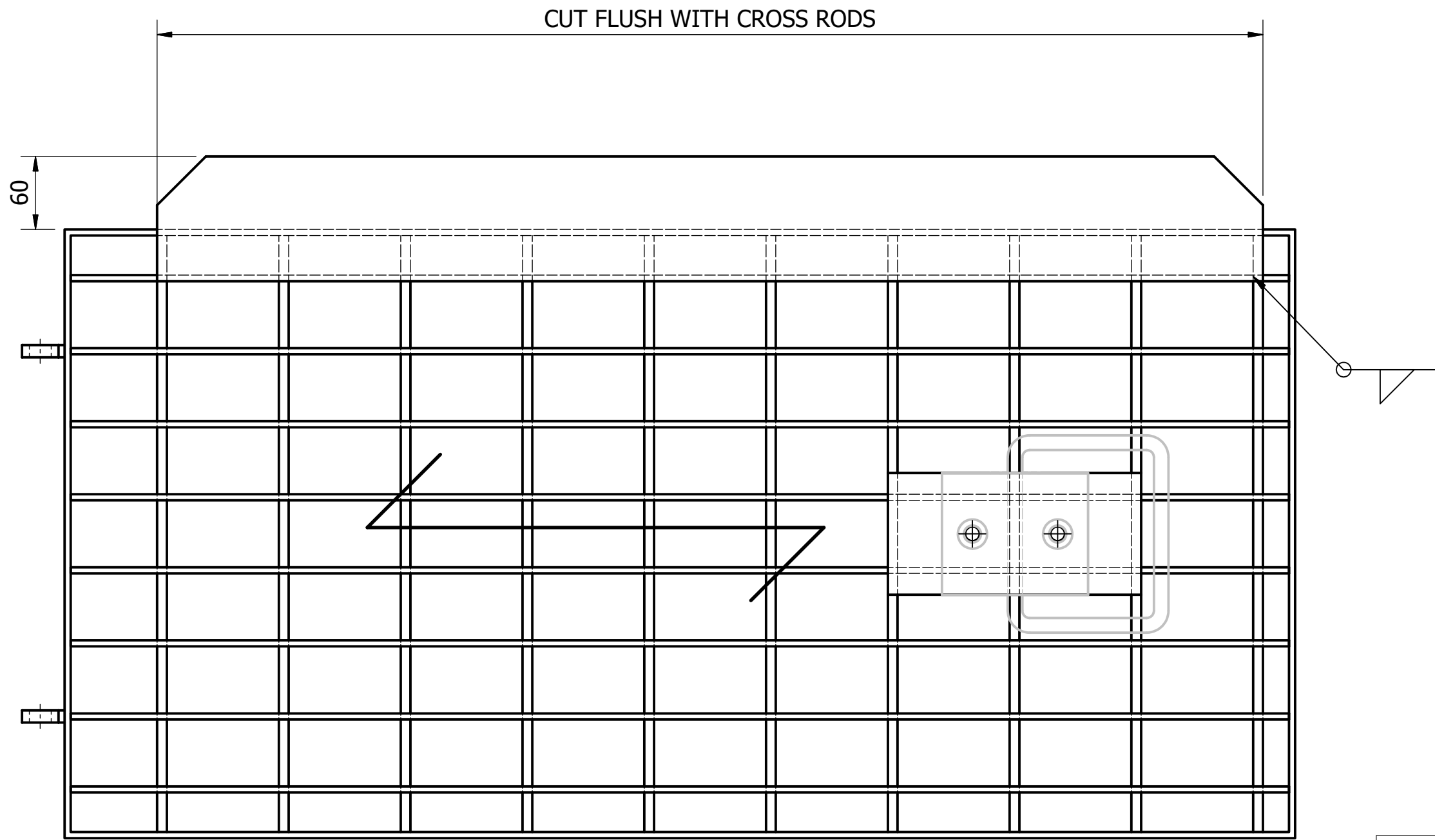
1 2 3 4 5 6 7 8 9 10 11 12

A B C D E F G H



ITEM	AMDT.
PN827501	

ITEM	AMDT.
PN827502	



ITEM	AMDT.
PN827503	

ITEM	AMDT.
PN827504	

NOTES:
 1. GRATES TO BE HOT DIP GALVANISED AFTER FABRICATION.
 2. MAXIMUM LENGTH OF THE PANEL IS BASED ON THE PANEL WEIGHT, WHICH MUST NOT EXCEED 20 kg.

ASSET AREA APPLICABILITY				
DAM	RES	SPS		
BWS	WAT	STP		
WTP	SEW			
WPS	REC			

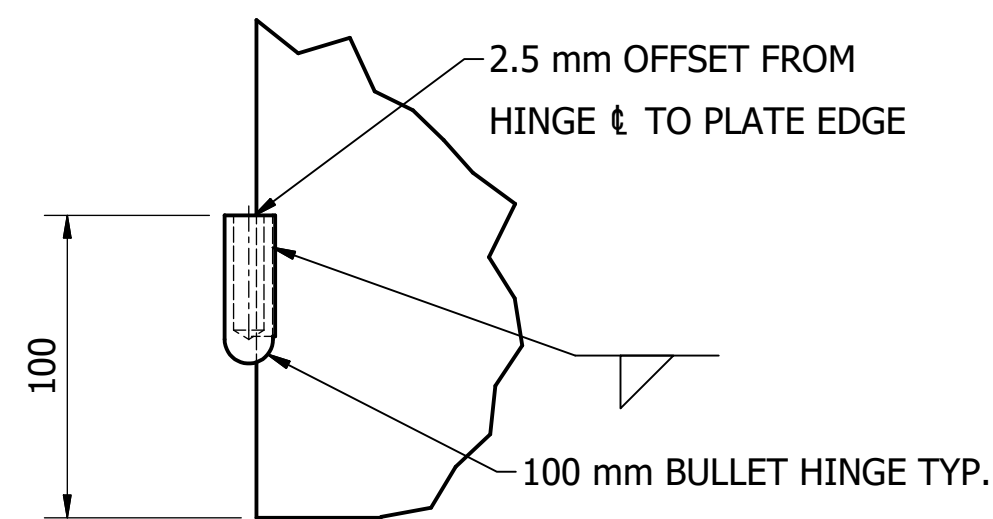
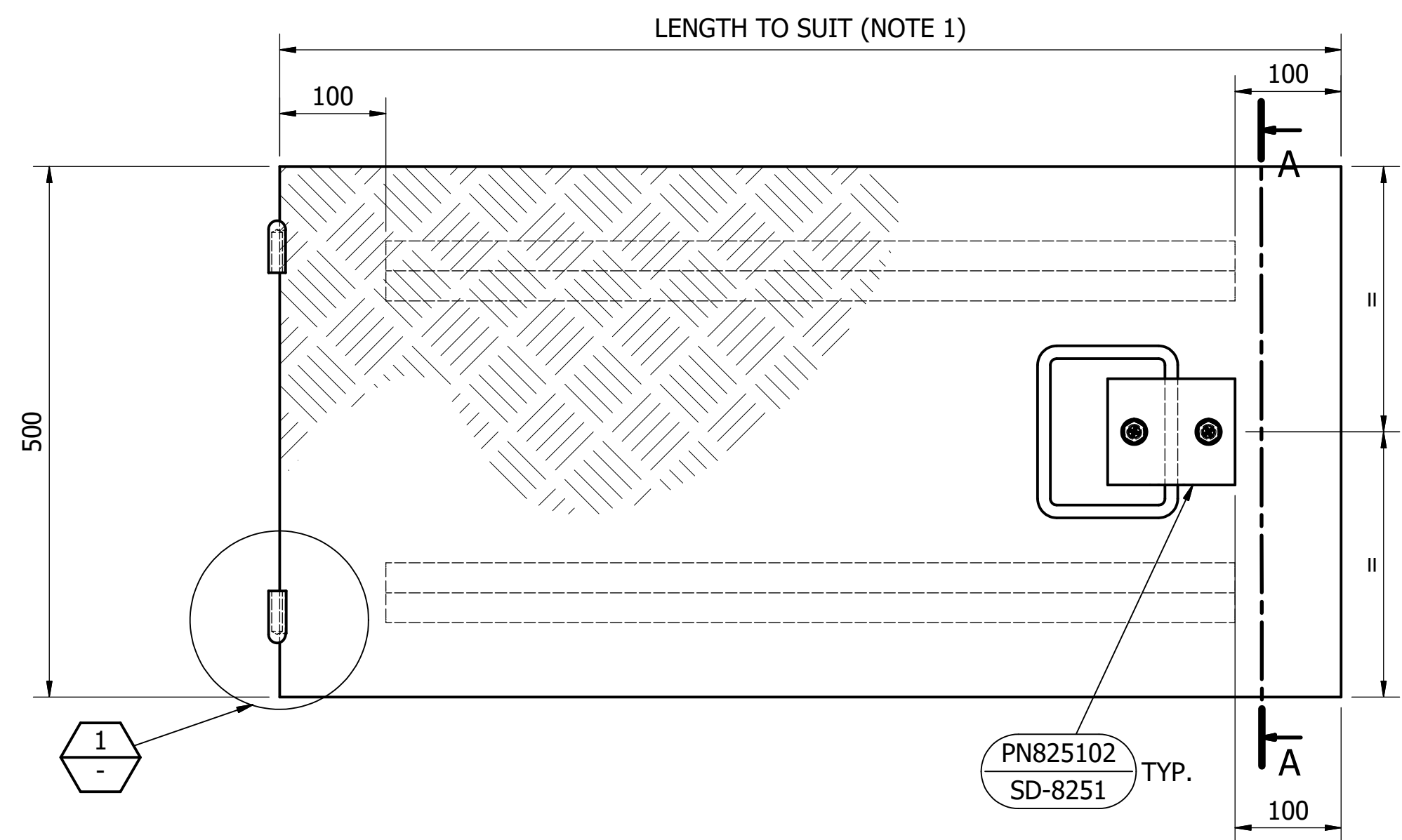


STANDARD DRAWING
 ACCESS COVERS - HOT DIP GALVANISED STEEL
 FIXED FRAME (FOLD FLAT) COVER
 HINGED HATCH - GRATED
 DETAILS

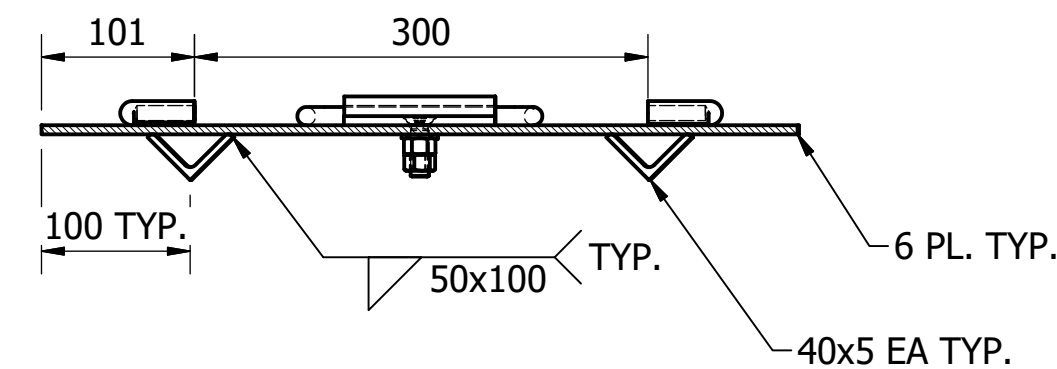
DRAWING STATUS
Current
SD-8275-C
 © Icon Water 2017
 ISSUE B

No.	ISSUE	DATE	DRAWN	CHECKED	AUTHORISED
A	INITIAL ISSUE	15/06/2018	S. Essery	K. Danenbergsons	D. Eager
B	PANEL LENGTH NOTE ADDED	10/12/2018	S. Essery	K. Danenbergsons	C. Patrick

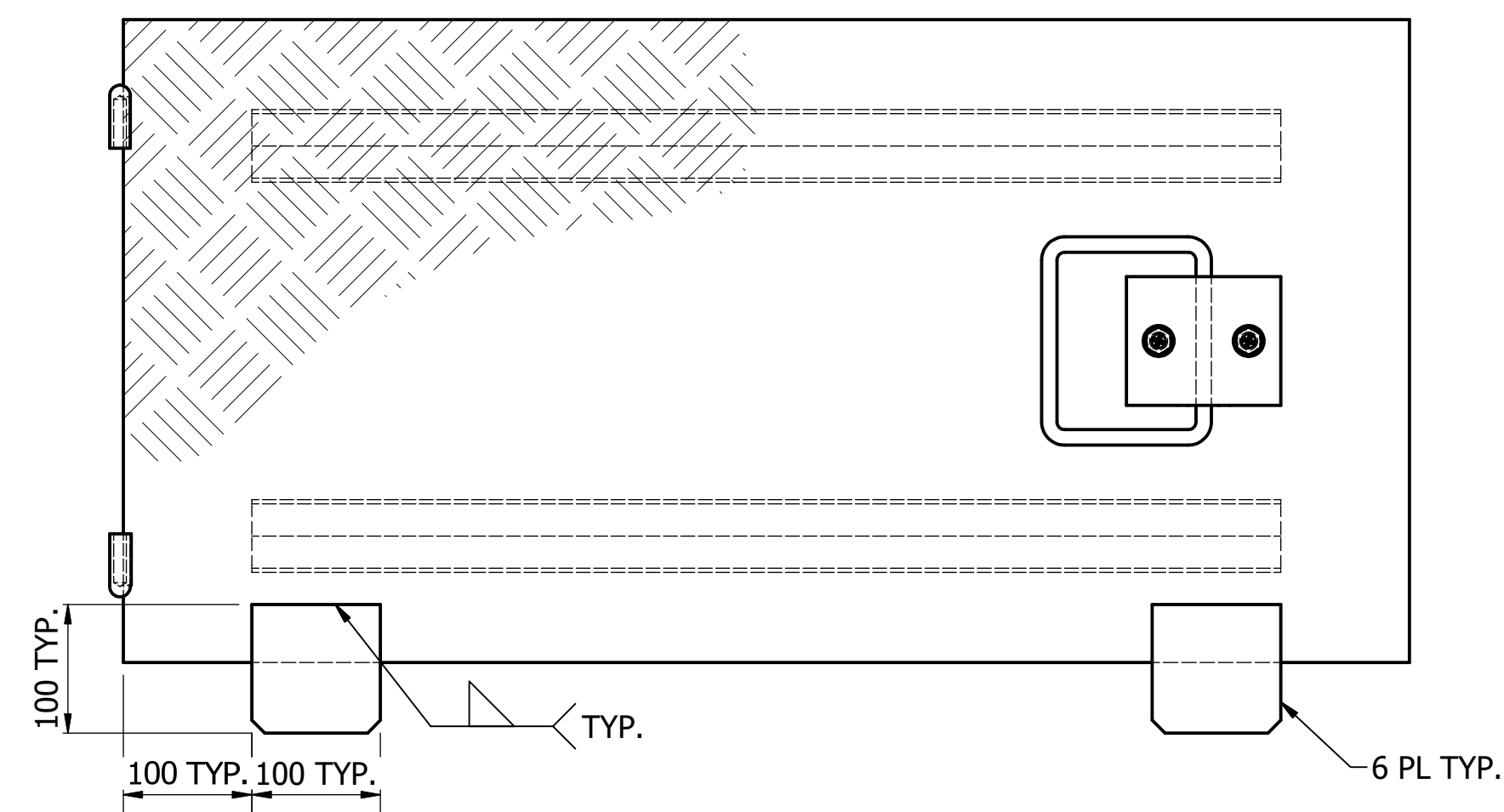
1 2 3 4 5 6 7 8 9 10 11 12



DETAIL 1
HINGE



SECTION A-A
SCALE: 1:5

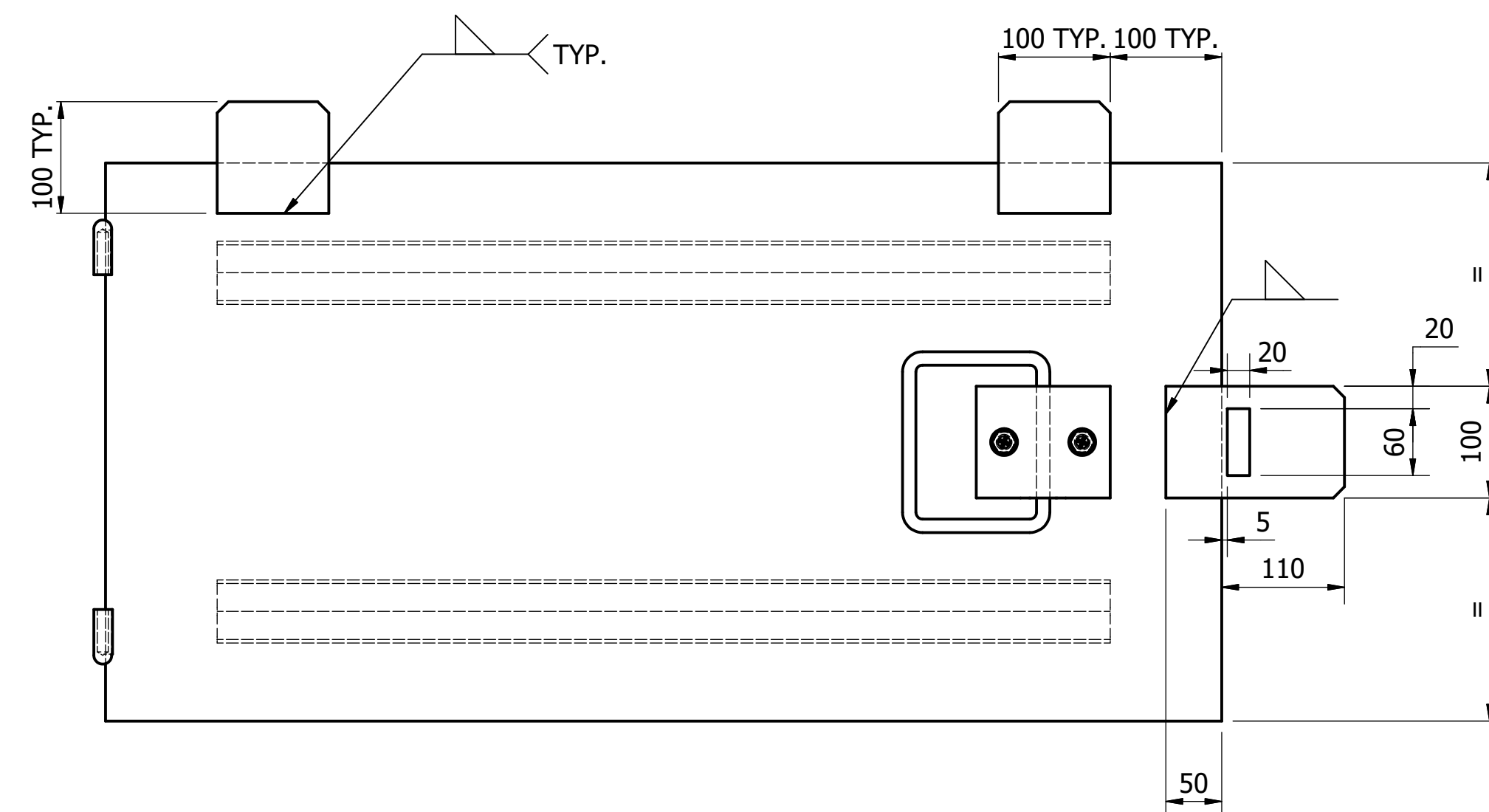
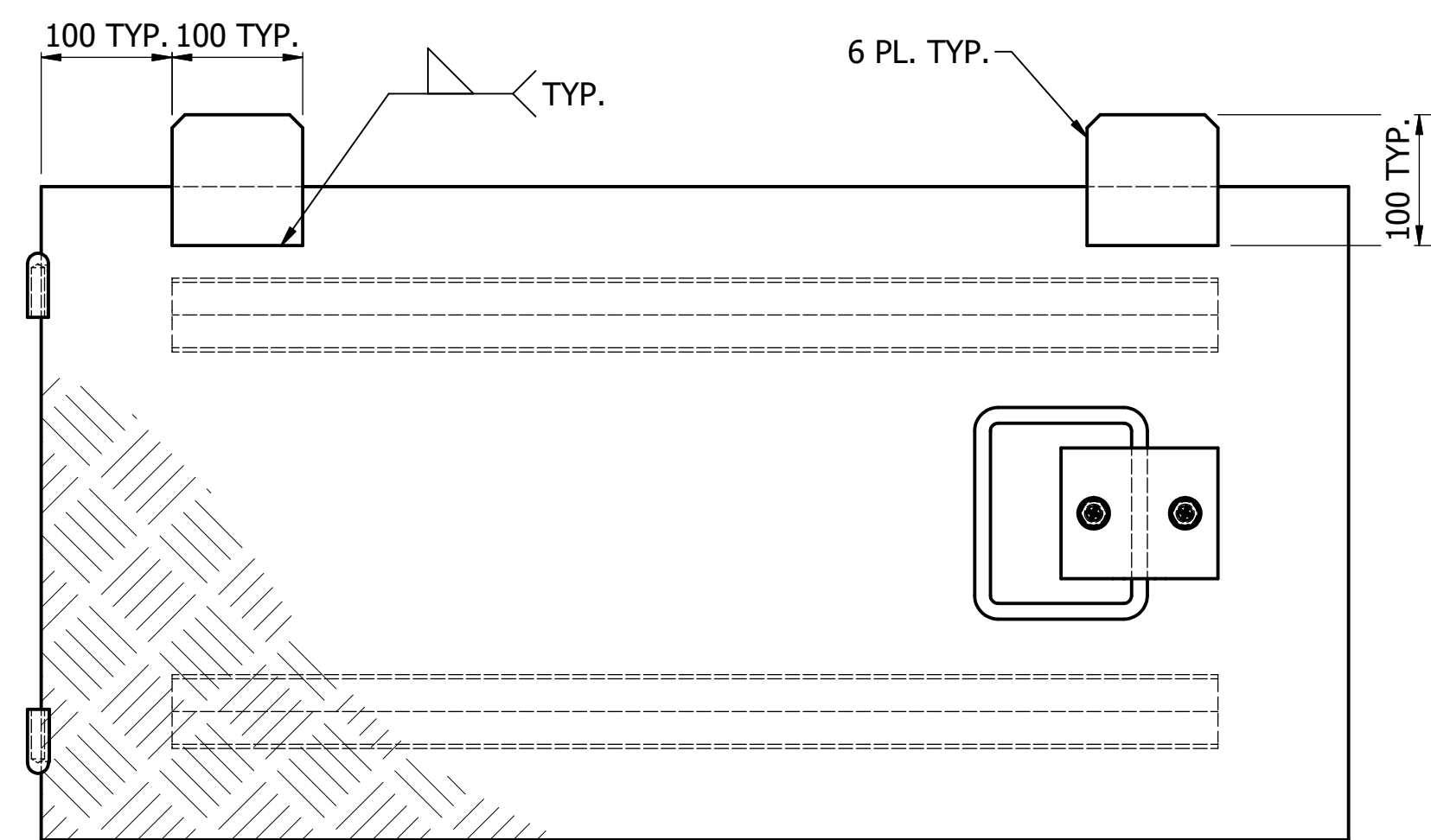


ITEM	AMDT.
PN827601	

ITEM	AMDT.
PN827602	

NOTES:

1. MAXIMUM LENGTH OF THE PANEL IS BASED ON THE PANEL WEIGHT, WHICH MUST NOT EXCEED 20 kg.



ITEM	AMDT.
PN827603	

ITEM	AMDT.
PN827604	

ASSET AREA APPLICABILITY				
DAM	RES	SPS		
BWS	WAT	STP		
WTP	SEW			
WPS	REC			



STANDARD DRAWING
ACCESS COVERS - HOT DIP GALVANISED STEEL
FIXED FRAME (FOLD FLAT) COVER
HINGED HATCH - PLATE
DETAILS

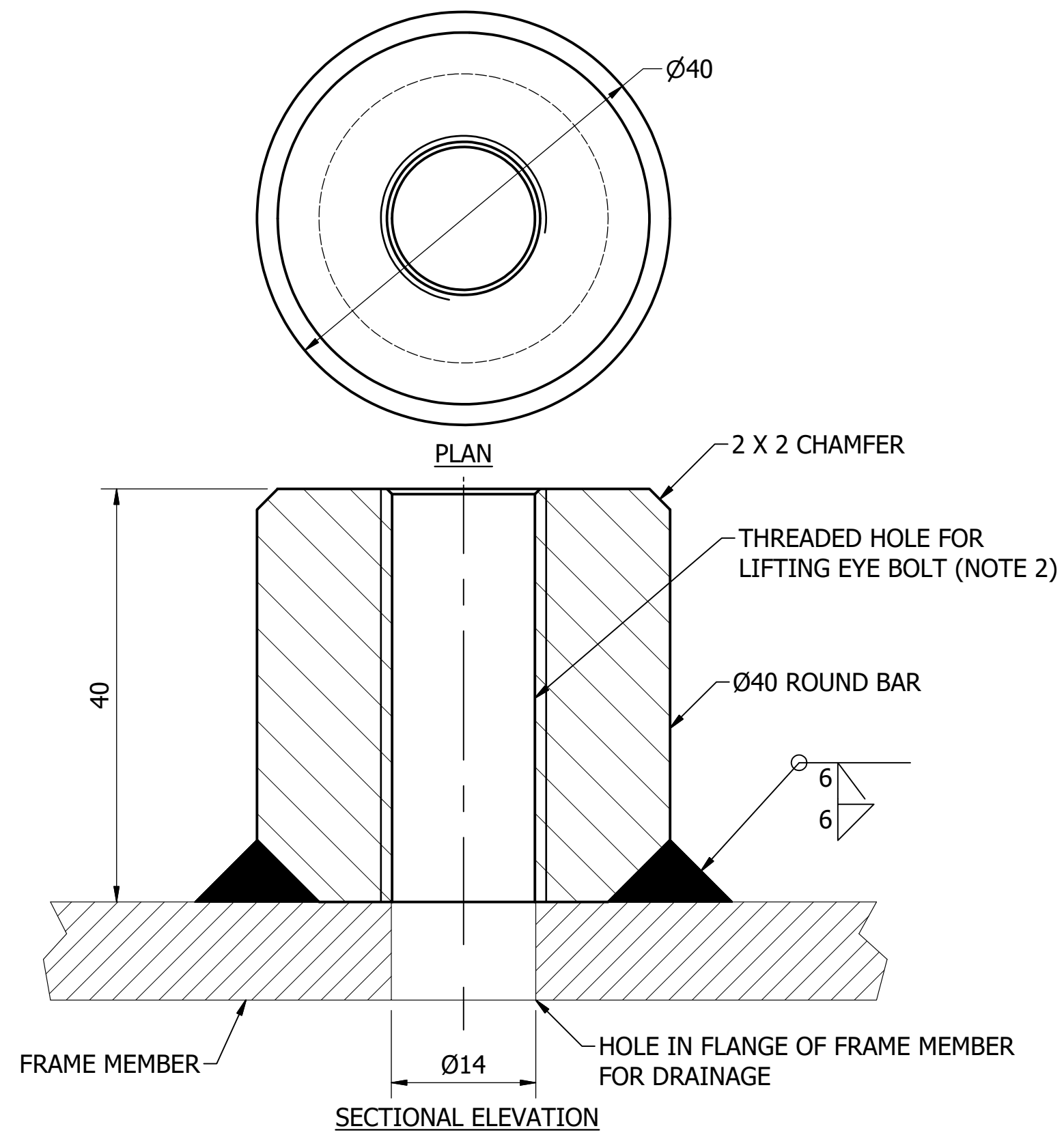
DRAWING STATUS

Current

SD-8276-C

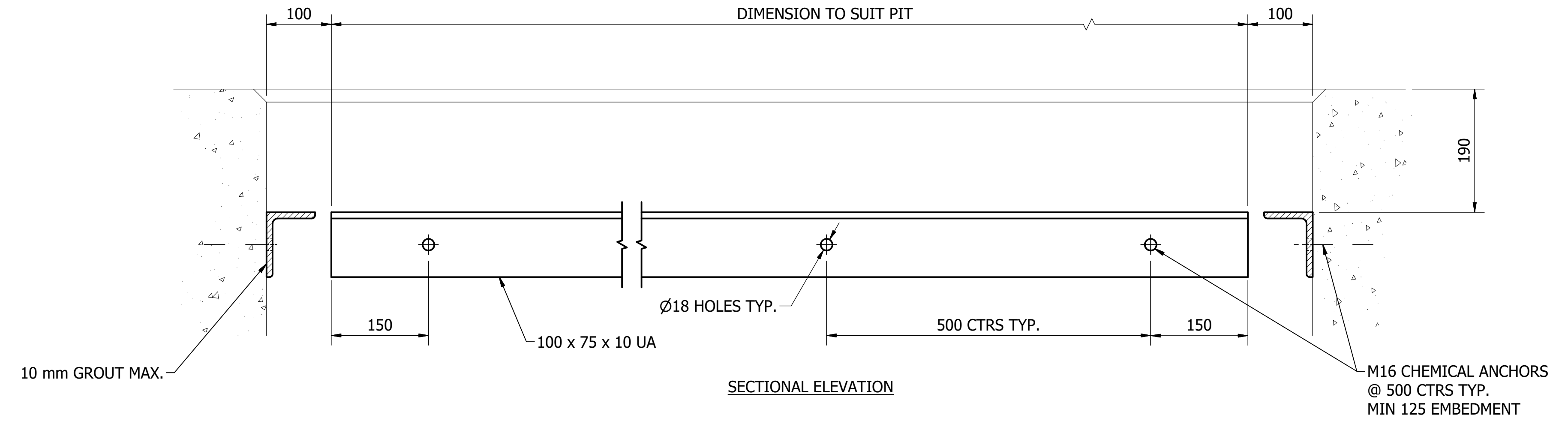
© Icon Water 2017

ISSUE
B



EYE BOLT RECEIVER - LIFTING
 SCALE: 2 : 1
 MATERIAL: CARBON STEEL
 COATING: HOT DIP GALVANISED (AS PART OF FINAL ASSEMBLY)
 FINISH COLOUR: N/A
 MASS: 0.5 kg

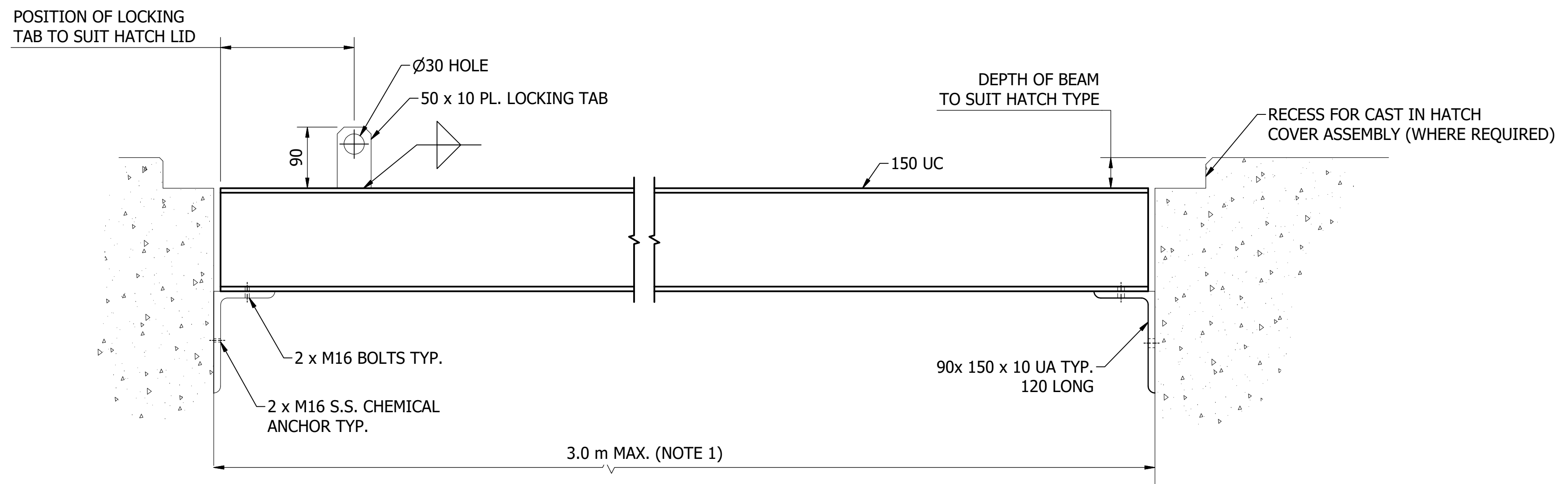
ITEM	AMDT.
PN828101	



DROP-IN COVER - FRAME SUPPORT ANGLE
 DETAILS AND INSTALLATION
 SCALE: 1 : 5
 MATERIAL: CARBON STEEL
 COATING: HOT DIP GALVANISED
 FINISH COLOUR: N/A
 MASS: VARIES

ITEM	AMDT.
PN828102	

- NOTES:**
1. THE CENTRE SUPPORT BEAM AND T-CLEAT DETAIL SHOWN SHALL ONLY BE USED FOR THE MAX. SPAN GIVEN UNLESS PROJECT SPECIFIC DESIGN CALCULATIONS ARE CONDUCTED BY A SUITABLY QUALIFIED/COMPETENT STRUCTURAL OR MECHANICAL ENGINEER.
 2. EYE BOLT RECIEVER TO BE M16 COARSE THREAD AND IN ACCORDANCE WITH AS 2317.
 3. ALL WELDS TO BE CATEGORY SP TO AS/NZS 1554. ELECTRODES TO BE "E43xx".



CENTRE SUPPORT BEAM
 SCALE: 1 : 5
 MATERIAL: CARBON STEEL
 COATING: HOT DIP GALVANISED
 FINISH COLOUR: N/A
 MASS: APPROX. 50 kg @ 2 m LENGTH

ITEM	AMDT.
PN828103	

DAM	RES	SPS
BWS	WAT	STP
WTP	SEW	
WPS	REC	



STANDARD DRAWING
 ACCESS COVERS - HOT DIP GALVANISED STEEL
 DROP IN AND FIXED FRAME
 STANDARD PARTS
 DETAILS

DRAWING STATUS	
Current	
SD-8281-D	
A1	ISSUE A

No.	ISSUE	DATE	DRAWN	CHECKED	AUTHORISED
A	INITIAL ISSUE	15/06/2018	M. Matusiak	K. Danenbergsons	D. Eager