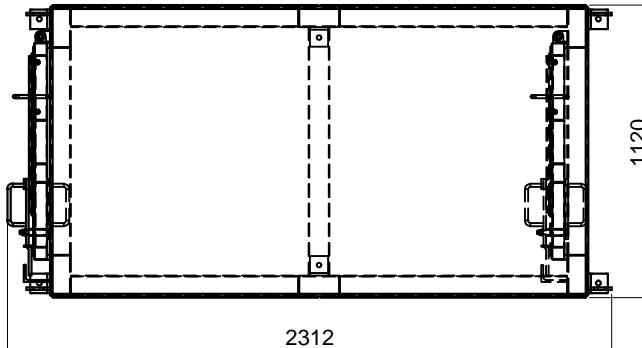
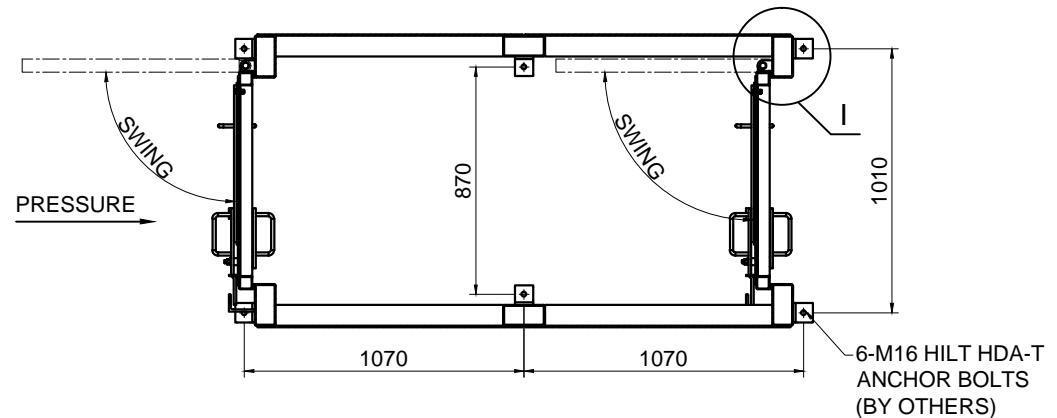


No.	DESCRIPTION	DRAWING NO.	MATERIAL	QTY	WEIGHT / KG	
					UNIT	NET
P1	PA DOOR FRAME	1883-15-S4-8002	Q345B, GB/T 1591	1	879.7	879.7
P2	PA DOOR ASSEMBLY	1883-15-S4-8001	-	2	138.3	276.6
P3	ASTM A325M M16x85 GALVANIZED BOLT, C/W 1 NUT & 3 WASHERS	-	-	4	0.3	1.2
P4	SHIM	1883-15-S4-8004	Q345B, GB/T 1591	6	1.4	8.4
P5	DOOR BRUSH	1883-15-S4-8005	-	2	2.6	5.2
		TOTAL: 1171.1				

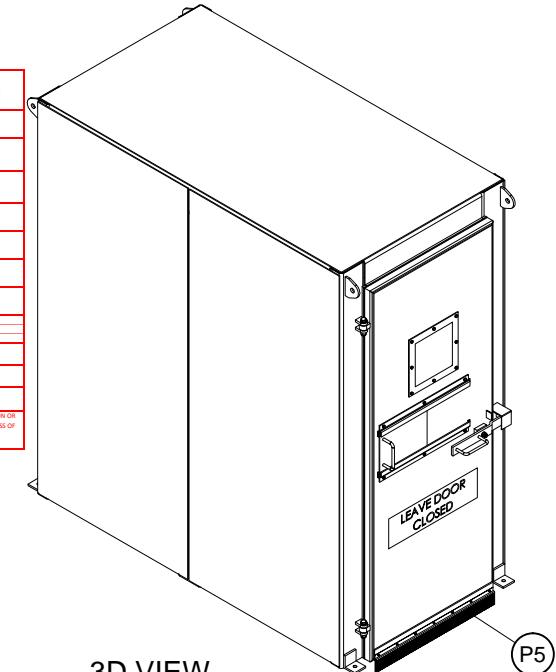


TOP VIEW
SCALE 1:30

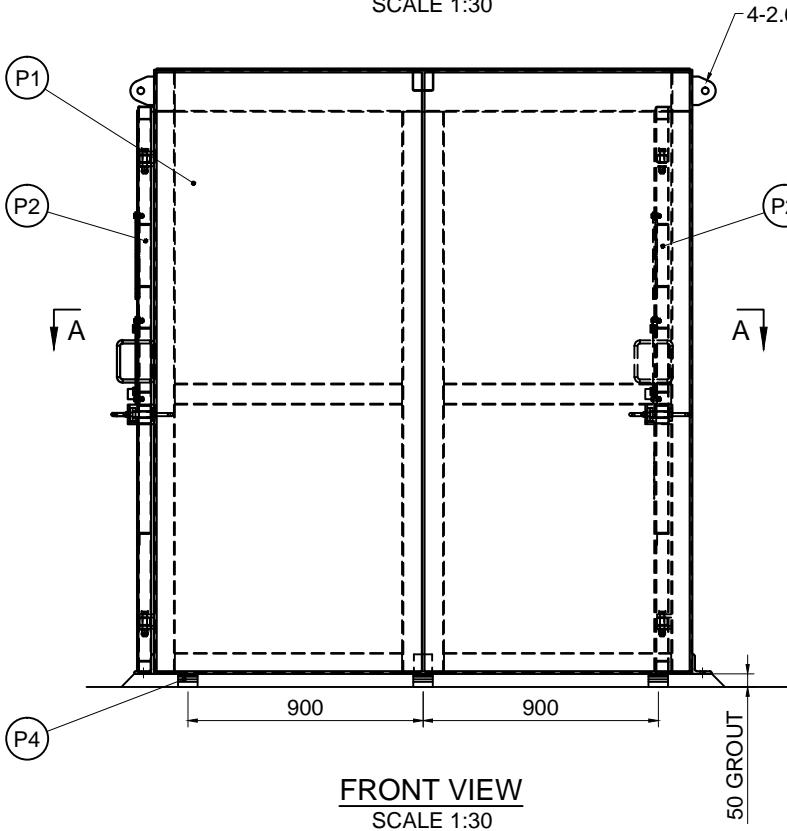


SECTION A-A
SCALE 1:30

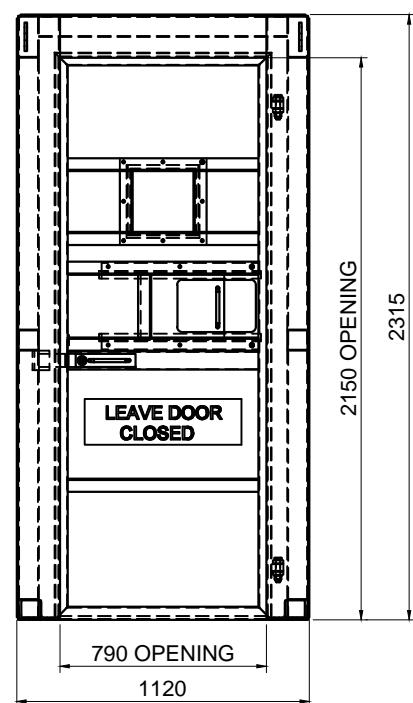
JACOBS		Contractor/Supplier/Vendor Technical Document and Drawing Review for SN180940 - OT Underground Project
		Oyu Tolgoi
<input type="checkbox"/> 1		Reviewed with No Comments: Construction/Fabrication may proceed.
<input type="checkbox"/> 2		Reviewed with Minor Comments: Construction/Fabrication may proceed after incorporation of comments. Construction/Fabrication may proceed if further submission is required.
<input type="checkbox"/> 3		Rejected with Major Comments: Construction/Fabrication may proceed after incorporation of comments. Construction/Fabrication may proceed if further submission is required.
<input checked="" type="checkbox"/> 4		Not Reviewed - Received For Information Only. No further submission is required.
<input type="checkbox"/> 5		Received Certified Equipment Package Vendor Document. Received As Built - Contractor Document.
<input type="checkbox"/> 6		Cancelled.
YES	NO	Submit Certified Document.
Signature _____ Date _____		
Equipment Tag No.		
Client Document No.		1883-15-S4-8000
Jacobs Document No. and Revision		CW2107475-B099-0001_R2
AUTORIZATION TO PROCEED DOES NOT RELIEVE THE VENDOR/CONTRACTOR OF ANY RESPONSIBILITY, OBLIGATION OR LIABILITY FOR THE DESIGN, CONSTRUCTION, MANUFACTURE, OR PERFORMANCE OF THE EQUIPMENT. THE VENDOR/CONTRACTOR AGREES THAT DIMENSIONS OR DETAILS ON SHOP DRAWINGS ARE ACCEPTED AS FOR INFORMATION ONLY (NOT REVIEWED). VENDOR/CONTRACTOR IS FULLY RESPONSIBLE FOR SHOP DRAWINGS.		



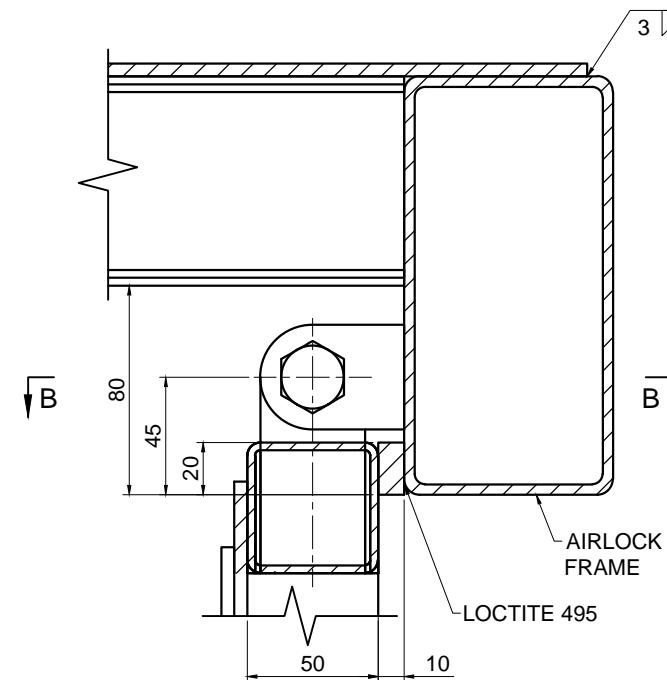
3D VIEW
AIRLOCK ON LEFT SIDE



FRONT VIEW
SCALE 1:30



SIDE VIEW
SCALE 1:30



DETAIL I
SCALE 1:3

PERSONNEL ACCESS DOOR ASSEMBLY

SCALE 1:30
QTY: 1 SET

ISSUED FOR CONSTRUCTION

REV.	DATE	REVISION DESCRIPTION	DES.	APPROVED	REV.	DATE	REVISION DESCRIPTION	DES.	APPROVED	REFERENCE DRAWING NO.	REFERENCE DRAWINGS
			CHK.				CHK.				
A	19/05/20	ISSUED FOR REVIEW	HF	OB						1800-55-L4-1104	PA AIRLOCK ARRANGEMENT AND DETAILS SHEET 1
			RD	GD						1800-55-L4-1105	PA AIRLOCK ARRANGEMENT AND DETAILS SHEET 2
0	04/06/20	ISSUED FOR CONSTRUCTION	HF	OB						1883-15-R1-1101	CONCRETE - OVERALL PLAN AND ISOMETRIC VIEW
			RD	GD						1883-15-R1-1110	CONCRETE - SECTION AND DETAILS



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PRODUCED BY	DESIGNED BY	DRAWN BY
Luvan	F. HAKIM	J. Xu
PROJECT NO	CHECK DESIGN	CHECK DRAWING
SN1809	D. RANKIN	ODONCHIMEG B.
CONTRACT NO	LEAD ENGINEER	APPROVAL DATE
2107475	J. Xu	06/05/20
DRAWING SIZE	AREA PROJECT ENGINEER	ENGINEERING MANAGER
A3	TSOGTBayar M.	Ganzorig D.
PLOT SCALE	PROJECT MANAGER	APPROVAL DATE
AS SHOWN	ERDENEBAATAR G.	06/05/20
CAD FILE NAME	CLIENT	APPROVAL DATE
N/A	JACOBS	---
SCALE	AS SHOWN	DRAWING NUMBER
AS SHOWN	1883-15-S4-8000	REV. 0

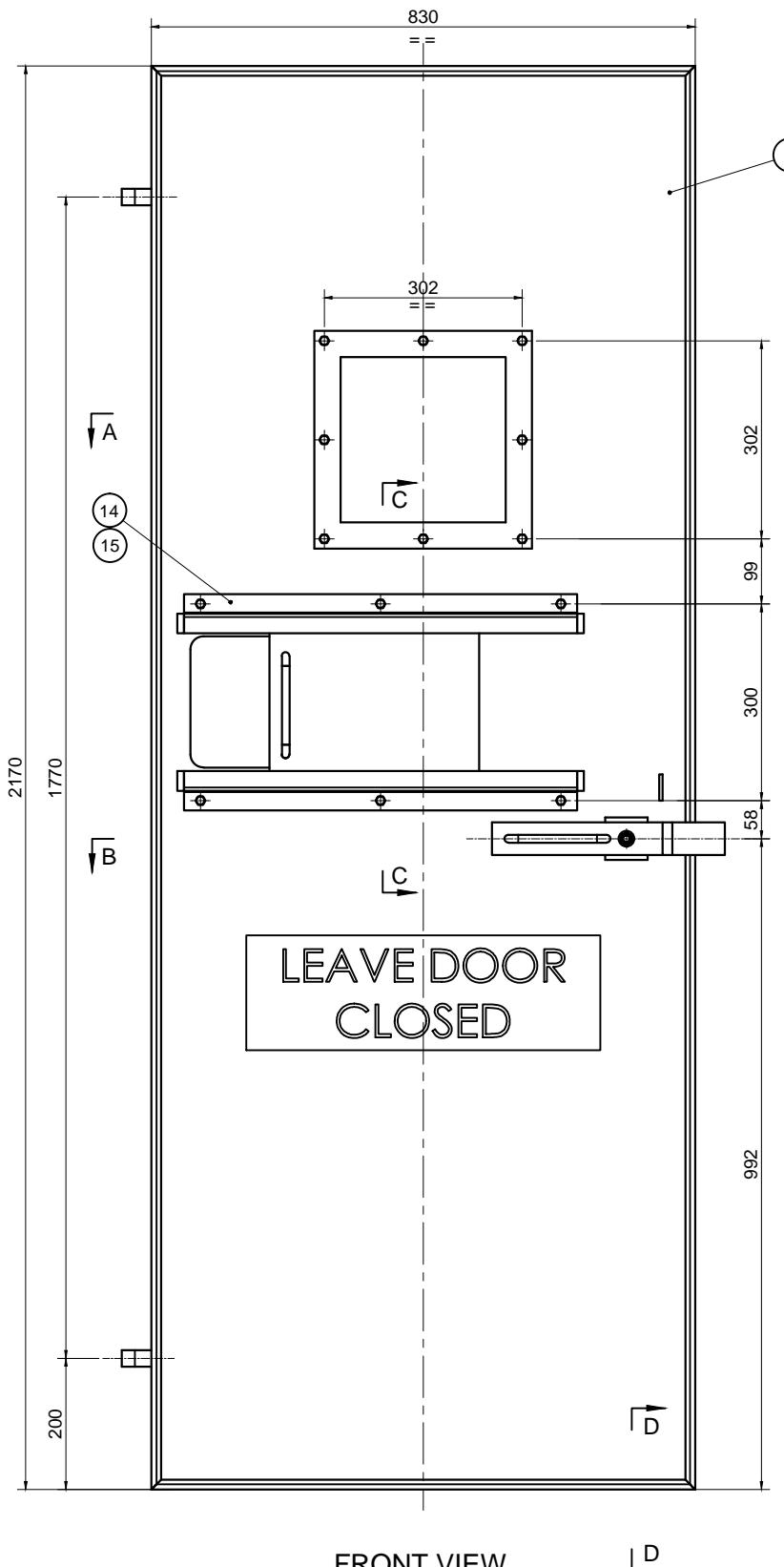
MCS property

Address: Central Tower, 16th floor, Square 2, SBD-8, Ulanbaatar, 14200, Mongolia;

Tel : +976-11-328942, 315244; Fax: +976-11-321656; Web: www.mcs.mn

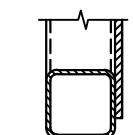
Luvan

Luvan Technology Limited

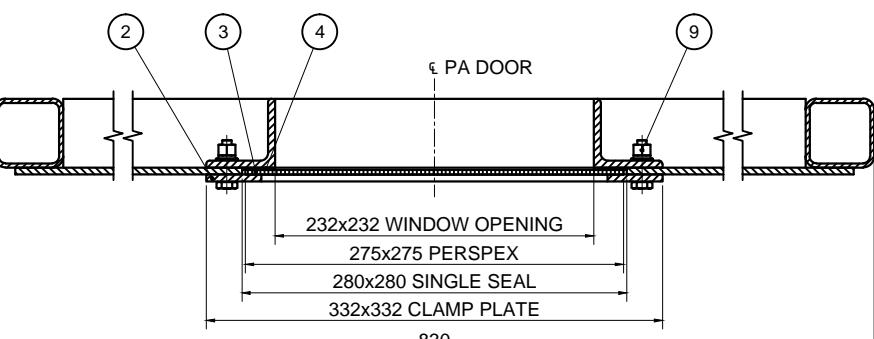


PA DOOR ASSEMBLY
SCALE 1:10
QTY: 2
1883-15-S4-8000 P2

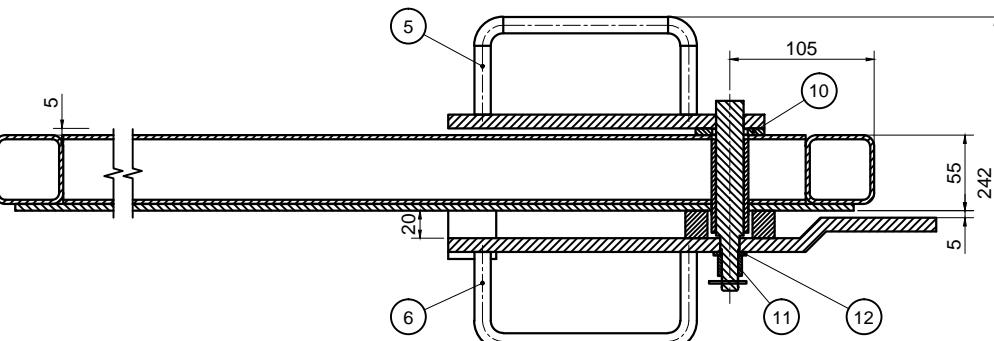
No.	DESCRIPTION	DRAWING NO.	MATERIAL	QTY	WEIGHT / KG	
					UNIT	NET
1	PA DOOR	1883-15-S4-8003	Q345B, GB/T 1591	1	123.6	123.6
2	SEAL CLAMP PLATE	1883-15-S4-8004	Q345B, GB/T 1591	1	1.8	1.8
3	PERSPEX (275x275x4.5)	-	PERSPEX	1	0.3	0.3
4	WINDOW SINGLE SEAL (24x1.6THK.)	-	-	1	0.1	0.1
5	DOOR LATCH 1	1883-15-S4-8004	Q345B, GB/T 1591	1	1.5	1.5
6	DOOR LATCH 2	1883-15-S4-8004	Q345B, GB/T 1591	1	1.9	1.9
7	PRESSURE RELIEF DOOR	1883-15-S4-8004	Q345B, GB/T 1591	1	3.6	3.6
8	PRESSURE RELIEF DOOR SLIDER	1883-15-S4-8004	Q345B, GB/T 1591	2	1.9	3.8
9	GB/T 5782 M8x30 GALVANIZED BOLT, C/W 1 NUT, 1 FLAT WASHER & 1 SPRING WASHER	-	-	14	0.1	1.4
10	M20 WASHER	-	ASTM F436	1	0.1	0.1
11	M12 WASHER	-	ASTM F436	1	0.1	0.1
12	NY LOCK NUT	-	ASTM A563	1	0.1	0.1
				TOTAL:	138.30	



SECTION D-D
SCALE 1:5



SECTION A-A
SCALE 1:5

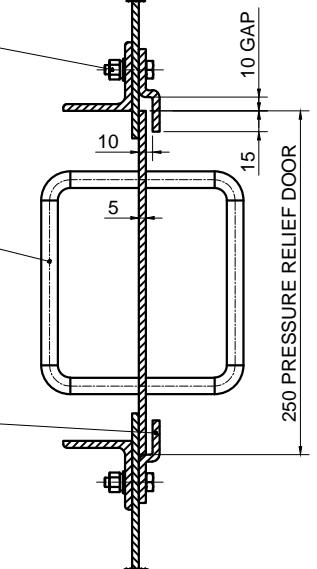


SECTION B-B
SCALE 1:5

- NOTES:
1. DOORS WILL BE PRE-ASSEMBLED / INSTALLED AT SHOP AND SUBJECTED TO TESTING PRIOR SHIPMENT
 2. DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS NOTED OTHERWISE.
 3. WELDING TASKS SHALL BE DONE WITH REQUIREMENTS OF AWS D1.1 STRUCTURAL WELDING CODE-STEEL: WELDING SHALL BE 6mm CONTINUOUS FILLET WELD UNLESS NOTED OTHERWISE.
 4. ALL STEELWORK SHALL BE COATED SYSTEM 1 OF 0000-00-SPE-0002_6 AND COLOR OF THE PAINTING SHALL BE SAFETY YELLOW (RAL1021)

JACOBS	Contractor/Supplier/Vendor Technical Document and Drawing Review for SN1809A - OT Underground Project	Oyu Tolgoi
<input type="checkbox"/> 1	Reviewed with No Comments.	Received with Minor Comments.
<input type="checkbox"/> 2	Reviewed with Major Comments.	Review and resubmit "Final Version" incorporating comments.
<input type="checkbox"/> 3	Rejected with Minor Comments.	Correct and resubmit "For Review" incorporating comments.
<input checked="" type="checkbox"/> 4	Not Reviewed - Received for Information Only.	No further submission is required.
<input type="checkbox"/> 5	Received Certified Equipment Package Vendor Document.	Received As Built - Contractor Document.
<input type="checkbox"/> 6	Cancelled.	Submit Certified Document.
1883-15-S4-8001	Client Document No. and Revision	Equipment Tag No.
CW2107475-B099-0002_R2	Jacobs Document No. and Revision	Client Document No. and Revision

AUTHORISATION TO PROCEED DOES NOT RELEASE THE VENDOR/CONTRACTOR OF ANY RESPONSIBILITY, OBLIGATION OR LIABILITY FOR ANY DEFECTS OR NON-COMPLIANCE WITH THIS DRAWING. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY DEFECTS OR NON-COMPLIANCE WITH THIS DRAWING. DIMENSIONS, SHOP DRAWINGS ARE ACCEPTED AS FOR INFORMATION ONLY (NOT REVIEWED). VENDOR/CONTRACTOR IS FULLY RESPONSIBLE FOR SHOP DRAWINGS.



SECTION C-C
SCALE 1:5

VENDOR DOCUMENT NUMBER	1883-20-A1-V8001	REV. 0
JACOBS DOCUMENT NUMBER	CW2107475-B099-0002_R2	

MCS property

Address: Central Tower, 16th floor, Square 2, SBD-8, Ulaanbaatar, 14200, Mongolia;
Tel : +976-11-328942, 315244; Fax: +976-11-321656; Web: www.mcs.mn

Luvan

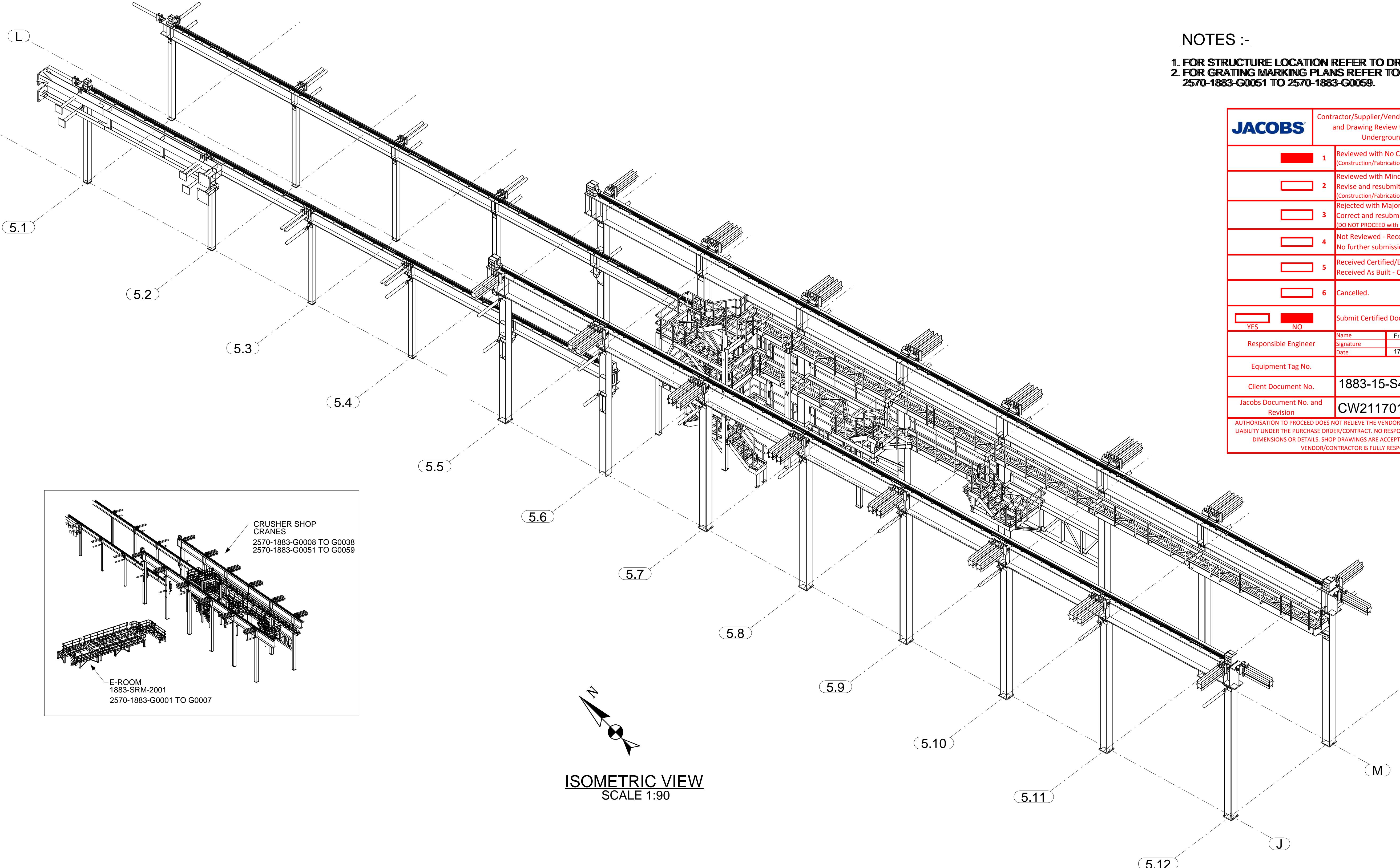
Luvan Technology Limited

REV.	DATE	REVISION DESCRIPTION	DES. CHK.	APPROVED	REV.	DATE	REVISION DESCRIPTION	DES. CHK.	APPROVED	REFERENCE DRAWING No.	REFERENCE DRAWINGS	PRODUCED BY	DESIGNED BY	DRAWN BY
A	19/05/20	ISSUED FOR REVIEW	HF RD	OB/GD			1800-55-L4-1104			PA AIRLOCK ARRANGEMENT AND DETAILS SHEET 1		Oyu Tolgoi LLC	F. HAKIM	J. Xu
0	04/06/20	ISSUED FOR CONSTRUCTION	HF RD	OB/GD			1800-55-L4-1105			PA AIRLOCK ARRANGEMENT AND DETAILS SHEET 2		Project No. SN1809	CHECK DESIGN D. RANKIN	CHECK DRAWING ODONCHIMEG B.
							1883-15-R1-1101			CONCRETE - OVERALL PLAN AND ISOMETRIC VIEW		Contract No. 2107475	LEAD ENGINEER J. Xu	APPROVAL DATE 06/05/20
							1883-15-R1-1110			CONCRETE - SECTION AND DETAILS		Drawing Size A3	AREA PROJECT ENGINEER TSOGBTAYAR M.	ENGINEERING MANAGER GANZorig D.
											PLOT SCALE AS SHOWN	PROJECT MANAGER ERDENEBAAATAR G.	APPROVAL DATE 06/05/20	
											CAD FILE NAME N/A	CLIENT JACOBS	APPROVAL DATE ---	
											SCALE AS SHOWN	DRAWING NUMBER 1883-15-S4-8001	REV. 0	

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OYU TOLGOI UNDERGROUND PROJECT
UNDERGROUND INFRASTRUCTURE AND MINING
TRUCK SHOP HAULAGE LEVEL SOUTH ACCESS BULKHEAD
1883-D00-2002 PERSONAL ACCESS AIRLOCK DOOR ASSEMBLY
DETAIL-2 (SHEET 2 OF 6)



NOTES :-

1. FOR STRUCTURE LOCATION REFER TO DRAWING 1883-15-S1-1101.
2. FOR GRATING MARKING PLANS REFER TO DRAWING 2570-1883-G0051 TO 2570-1883-G0059.

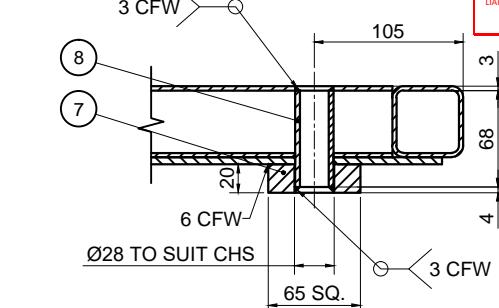
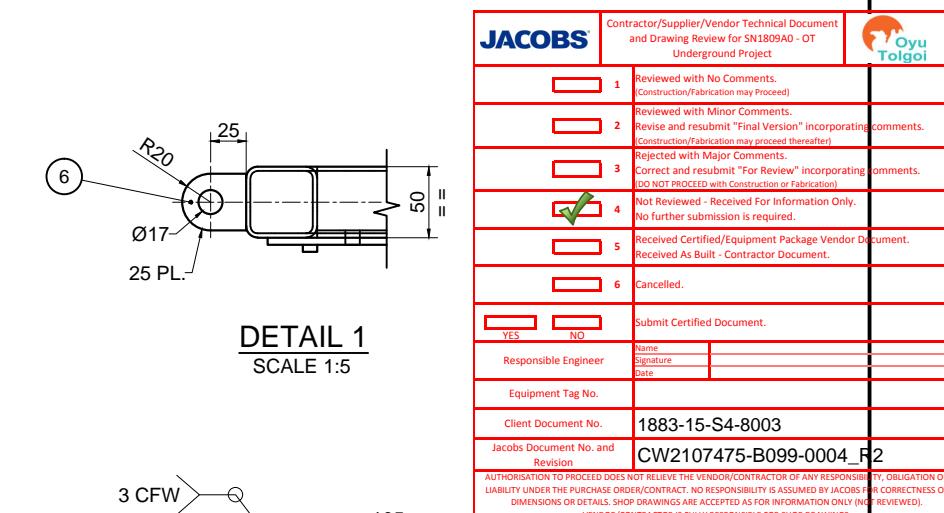
JACOBS		Contractor/Supplier/Vendor Technical Document and Drawing Review for SN1809A0 - OT Underground Project	Oyu Tolgoi
<input checked="" type="checkbox"/>	1	Reviewed with No Comments. (Construction/Fabrication may Proceed)	
<input type="checkbox"/>	2	Reviewed with Minor Comments. Revise and resubmit "Final Version" incorporating comments. (Construction/Fabrication may proceed thereafter)	
<input type="checkbox"/>	3	Rejected with Major Comments. Correct and resubmit "For Review" incorporating comments. (DO NOT PROCEED with Construction or Fabrication)	
<input type="checkbox"/>	4	Not Reviewed - Received For Information Only. No further submission is required.	
<input type="checkbox"/>	5	Received Certified/Equipment Package Vendor Document. Received As Built - Contractor Document.	
<input type="checkbox"/>	6	Cancelled.	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Submit Certified Document.	
YES	NO	Name Francisco Alvarez F Signature Date 17-12-2018	
Responsible Engineer			
Equipment Tag No.			
Client Document No.	1883-15-S4-8022		
Jacobs Document No. and Revision	CW2117013-B093-0230_R2		
AUTHORISATION TO PROCEED DOES NOT RELIEVE THE VENDOR/CONTRACTOR OF ANY RESPONSIBILITY, OBLIGATION OR LIABILITY UNDER THE PURCHASE ORDER/CONTRACT. NO RESPONSIBILITY IS ASSUMED BY JACOBS FOR CORRECTNESS OF DIMENSIONS OR DETAILS. SHOP DRAWINGS ARE ACCEPTED AS FOR INFORMATION ONLY (NOT REVIEWED). VENDOR/CONTRACTOR IS FULLY RESPONSIBLE FOR SHOP DRAWINGS.			

SinoStruct																	
REV.	DATE	REVISION DESCRIPTION	DES. CHK.	APPROVED	REV.	DATE	REVISION DESCRIPTION	DES. CHK.	APPROVED	REFERENCE DRAWING No.	REFERENCE DRAWINGS	PRODUCED BY	DESIGNED BY	DRAWN BY	TITLE		
A	02/09/2018	ISSUED FOR APPROVAL	KK SB				1883-15-S1-1101 (REV-0)					PROJECT NO	CHECK DESIGN SB	CHECK DRAWING SB	OYU TOLGOI UNDERGROUND PROJECT UNDERGROUND WORKSHOPS TRUCK SHOP HAULAGE LVL-CRUSHER SHOP CRANES CRUSHER SHOP CRANES ISOMETRIC VIEW	SinoStruct	
O	05/10/2018	ISSUED FOR CONSTRUCTION	KK SB									CONTRACT NO	LEAD ENGINEER HN	APPROVAL DATE 15/10/2018			
1	15/10/2018	ISSUED FOR CONSTRUCTION-TITLE BLOCK UPDATED	KK SB									DRAWING SIZE	AREA PROJECT ENGINEER	ENGINEERING MANAGER			
												PLOT SCALE	PROJECT MANAGER	APPROVAL DATE 15/10/2018			
												CAD FILE NAME	CLIENT	APPROVAL DATE	SCALE	DRAWING NUMBER	
												2570-1883-G0008.DWG			NA	1883-15-S4-8022	REV. 1

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No.	NAME	DETAILS			MATERIAL	QTY	WEIGHT / KG	
		DESCRIPTION	LENGTH	STANDARD			UNIT	NET
1	SHS 1	50x50x3	830.0	GB/T 6728	Q345B, GB/T 1591	2	4.0	8.0
2	SHS 2	50x50x3	2170.0	GB/T 6728	Q345B, GB/T 1591	2	9.5	19.0
3	RHS 1	80x50x3	730.0	GB/T 6728	Q345B, GB/T 1591	1	4.2	4.2
4	EQUAL ANGLE	50x50x6	730.0	GB/T 706	Q345B, GB/T 1591	5	3.3	16.5
5	EQUAL ANGLE	50x50x6	232.0	GB/T 706	Q345B, GB/T 1591	2	1.0	2.0
6	DOOR HINGE	40x45x25	45.0	GB/T 709	Q345B, GB/T 1591	2	0.3	0.6
7	WASHER PLATE	65x65x20	65.0	GB/T 709	Q345B, GB/T 1591	1	0.6	0.6
8	CHS SLEEVE	Ø26.9x3.2	68.0	GB/T 8162	Q235B, GB/T 700	1	0.2	0.2
9	COVER PLATE	2140x800x5	2140.0	GB/T 709	Q345B, GB/T 1591	1	66.8	66.8
10	RELIEF STOP PLATE	30x10x5	30.0	GB/T 709	Q345B, GB/T 1591	4	0.1	0.4
11	LATCH STOP PLATE 1	40x35x5	40.0	GB/T 709	Q345B, GB/T 1591	1	0.1	0.1
							TOTAL:	118.4



DETAIL 1

SECTION A-A

ISSUED FOR CONSTRUCTION

VENDOR DOCUMENT NUMBER	1883-20-A1-V8003	REV 0
JACOBS DOCUMENT NUMBER	CW2107475-B099-0004	R2

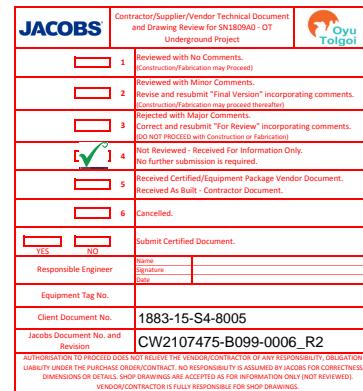
 MCS property

Luvan
Luvan Technology Limited

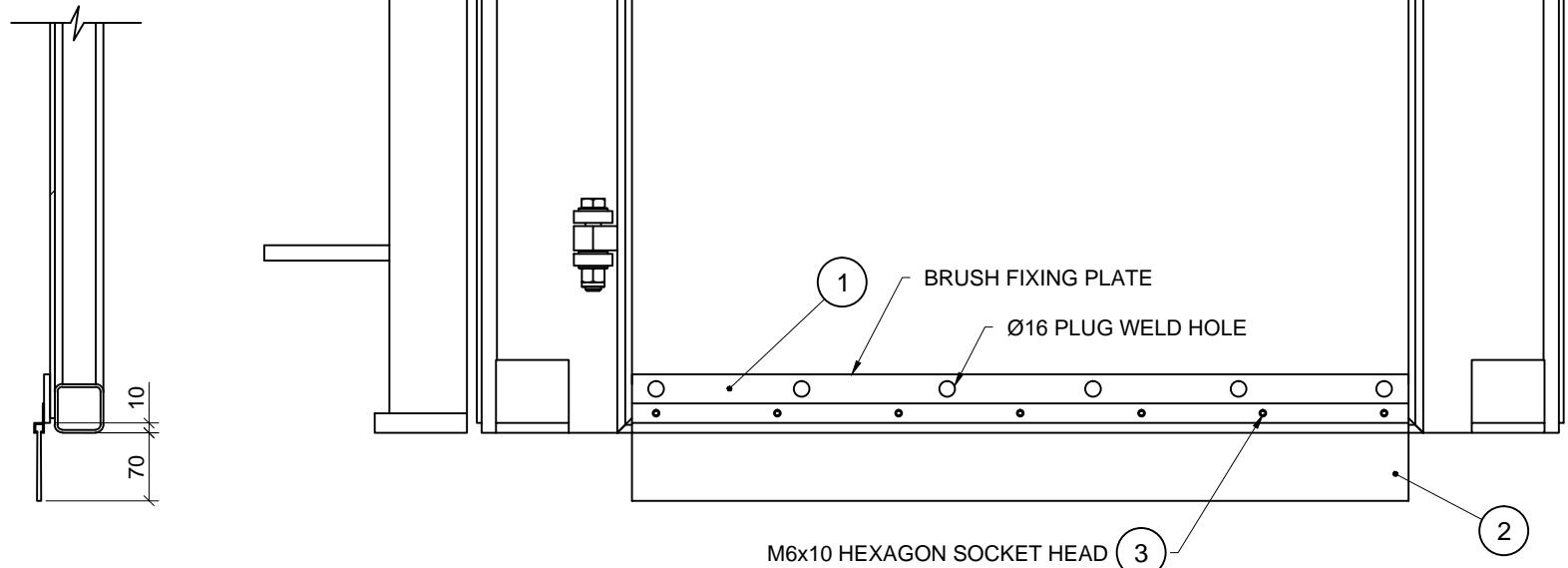
NOTES:

1. ALL WELDS TO BE 6 CFW AS PER AWS D1.1 U.N.O .
2. DIMENSIONS TOLERANCE TO BE $\pm 1.5\text{MM}$,
3. HOLES DIAMETER AND DISTANCE TOLERANCE TO BE $\pm 0.5 \text{ MM}$.
4. SURFACE TREATMENT COLOUR TO BE SAFETY YELLOW RAL1021 AS PER COATING SYSTEM 1 OF 0000-00-SPE-0002 REVISION 6.

No.	NAME		DETAILS		MATERIAL	QTY	WEIGHT / KG	
		DESCRIPTION	LENGTH	STANDARD			UNIT	NET
1	BRUSH FIXING PLATE	800x50x6	800.0	GB/T 709	Q345B, GB/T 1591	1	1.9	1.9
2	BRUSH	70x30	800.0	-	ALUMINUM ALLOY	1	0.7	0.7
3	HEXAGON SOCKET HEAD	M6	10.0	GB/T 70.1	STAINLESS STEEL	7	0.02	0.1
							TOTAL:	2.7



LEAVE DOOR CLOSED



DOOR BRUSH DETAILS P5
SCALE 1:2 1883-15-S4-8000
QTY: 2

ISSUED FOR CONSTRUCTION



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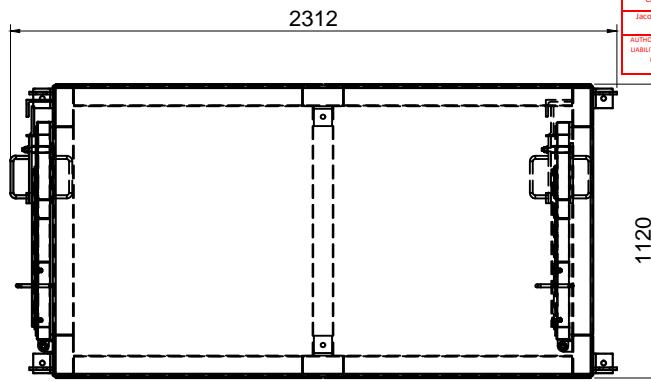
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PRODUCED BY Luvan	DESIGNED BY F. HAKIM	DRAWN BY J. Xu	OTU TOLGOI UNDERGROUND PROJECT UNDERGROUND INFRASTRUCTURE AND MINING TRUCK SHOP HAULAGE LEVEL SOUTH ACCESS BULKHEAD 1883-D00-2002 PERSONAL ACCESS AIRLOCK DOOR BRUSH INSTALLATION (SHEET 6 OF 6)
PROJECT NO SN1809	CHECK DESIGN D. RANKIN	CHECK DRAWING ODONCHIMEG B.	
CONTRACT NO 2107475	LEAD ENGINEER J. Xu	APPROVAL DATE 06/05/20	
DRAWING SIZE A3	AREA PROJECT ENGINEER TSOGTBayar M.	ENGINEERING MANAGER GANZorig D.	
PLOT SCALE AS SHOWN	PROJECT MANAGER ERDENEBAAATAR G.	APPROVAL DATE 06/05/20	
CAD FILE NAME N/A	CLIENT JACOBS	APPROVAL DATE ---	SCALE AS SHOWN
			DRAWING NUMBER 1883-15-S4-8005
			REV. 0

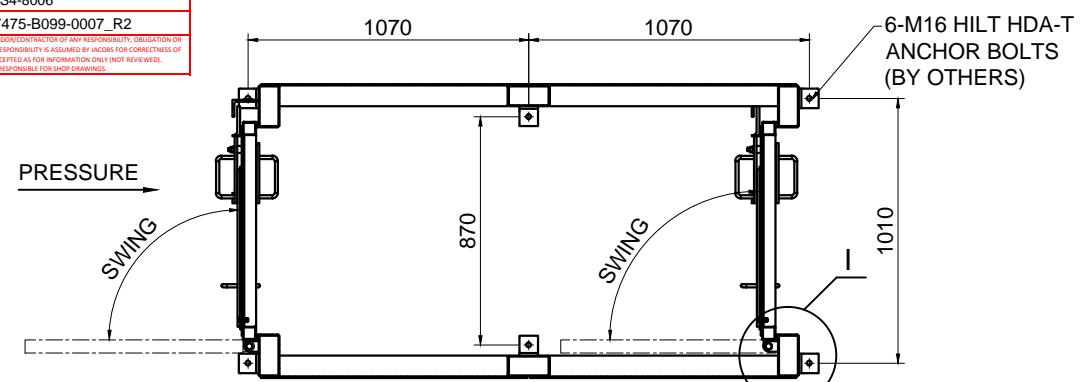
JACOBS	Contractor/Supplier/Vendor Technical Document and Drawing Review for SN1309AO - OT Underground Project	
<p><input type="checkbox"/> 1 Reviewed with No Comments. (Construction/Fabrication may Proceed)</p> <p><input type="checkbox"/> 2 Reviewed with Minor Comments. Review and resubmit "Final Version" incorporating comments. (Construction/Fabrication may proceed thereafter)</p> <p><input type="checkbox"/> 3 Correct and resubmit "For Review" incorporating comments. (DO NOT PROTECT with Construction or Fabrication)</p> <p><input checked="" type="checkbox"/> 4 Not Reviewed - Received For Information Only. No further submission is required.</p> <p><input type="checkbox"/> 5 Received Certified/Equipment Package Vendor Document. Received As Built - Contractor Document.</p> <p><input type="checkbox"/> 6 Cancelled.</p>		
<input type="checkbox"/> YES	<input type="checkbox"/> NO	Submit Certified Document.
<p>Responsible Engineer _____ <small>Name Signature Date</small></p> <p>Equipment Tag No. _____</p> <p>Client Document No. _____</p> <p>Jacobs Document No. and Revision 1883-15-S4-8006 CW2107475-B099-0007_R2</p>		
<p>AUTHORIZATION TO PROCEED DOES NOT RELIEVE THE VENDOR/CONTRACTOR OF ITS OBLIGATIONS UNDER THE PURCHASE ORDER. CONTRACTUAL LIABILITY IS ASSUMED BY JACOBS THAT THIS DRAWING IS FOR INFORMATION ONLY. SHOP DRAWINGS ARE RECEIVED AS INFORMATION ONLY (NOT REVIEWS). VENDOR/CONTRACTOR IS FULLY RESPONSIBLE FOR SHOP DRAWINGS.</p>		

No.	DESCRIPTION	DRAWING NO.	MATERIAL	QTY	WEIGHT / KG	
					UNIT	NET
P1	PA DOOR FRAME	1883-15-S4-8008	Q345B, GB/T 1591	1	879.7	879.7
P2	PA DOOR ASSEMBLY	1883-15-S4-8007	-	2	138.3	276.6
P3	ASTM A325M M16x85 GALVANIZED BOLT, C/W 1 NUT & 3 WASHERS	-	-	4	0.3	1.2
P4	SHIM	1883-15-S4-8010	Q345B, GB/T 1591	6	1.4	8.4
P5	DOOR BRUSH	1883-15-S4-8011	-	2	2.6	5.2
					TOTAL:	1171.1

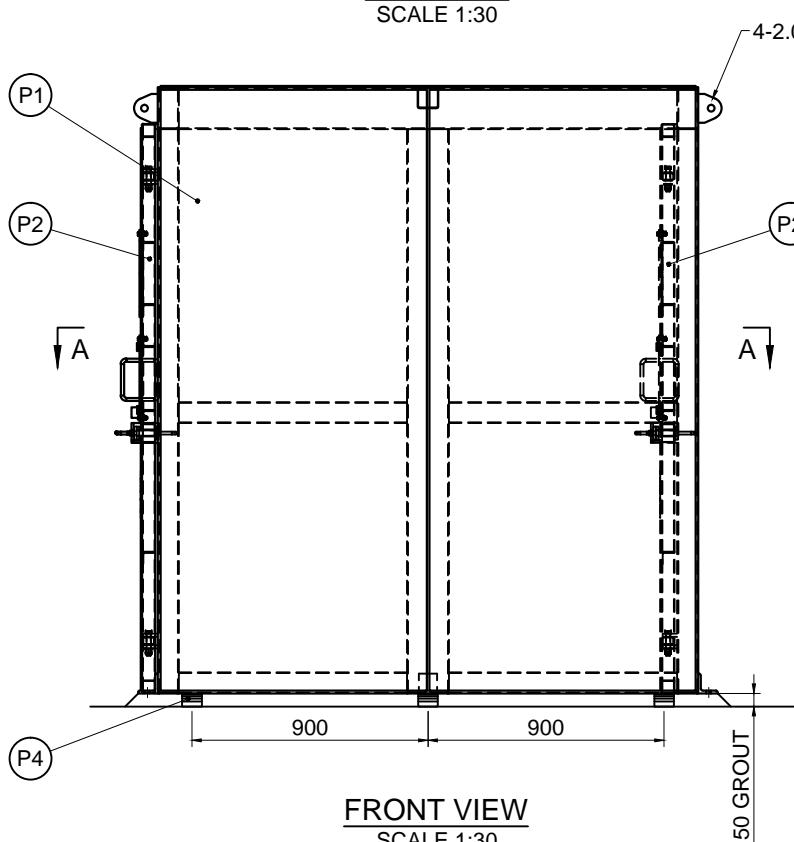
TOTAL: 1171.1



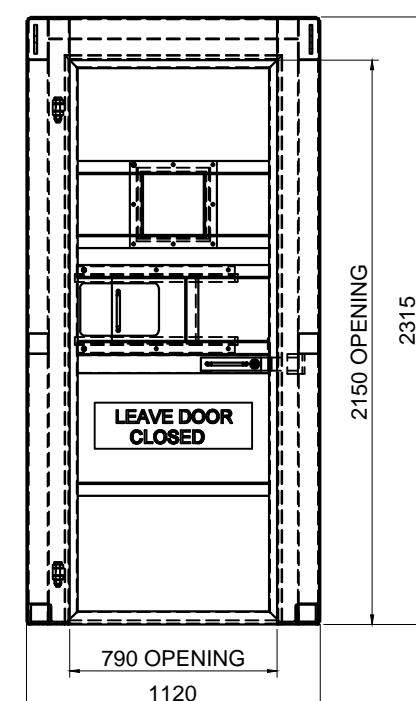
TOP VIEW
SCALE 1:30



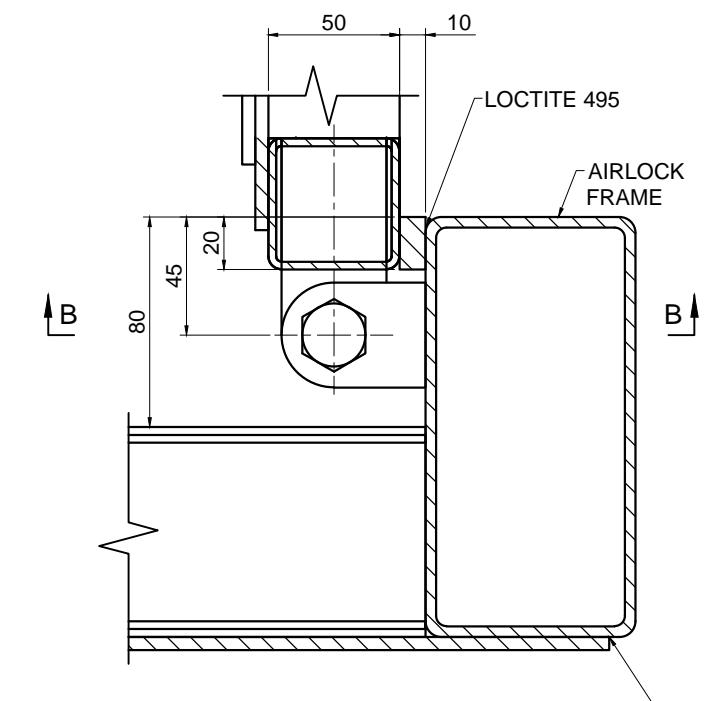
SECTION A-A



FRONT VIEW



SIDE VIEW
SCALE 1:30



DETAIL I
SCALE 1:3

NOTES:

1. DOORS WILL BE PRE-ASSEMBLED / INSTALLED AT SHOP AND SUBJECTED TO TESTING PRIOR SHIPMENT.
 2. DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS NOTED OTHERWISE.
 3. WELDING TASKS SHALL BE DONE WITH REQUIREMENTS OF AWS D1.1 STRUCTURAL WELDING CODE-STEEL: WELDING SHALL BE 6mm CONTINUOUS FILLET WELD UNLESS NOTED OTHERWISE.
 4. ALL STEELWORK SHALL BE COATED SYSTEM 1 OF 0000-00-SPE-0002_6 AND COLOR OF THE PAINTING SHALL BE SAFETY YELLOW (RAL1021)
 5. ALL STRUCTURAL BOLT SHALL BE ASTM A325 TYPE-1 OR GB/T 1228, NUTS ASTM A563 OR GB/T1229 AND WASHERS ASTM F436 OR GB/T 1230.

PERSONNEL EXIT DOOR ASSEMBLY

SCALE 1:30
QTY: 1 SET

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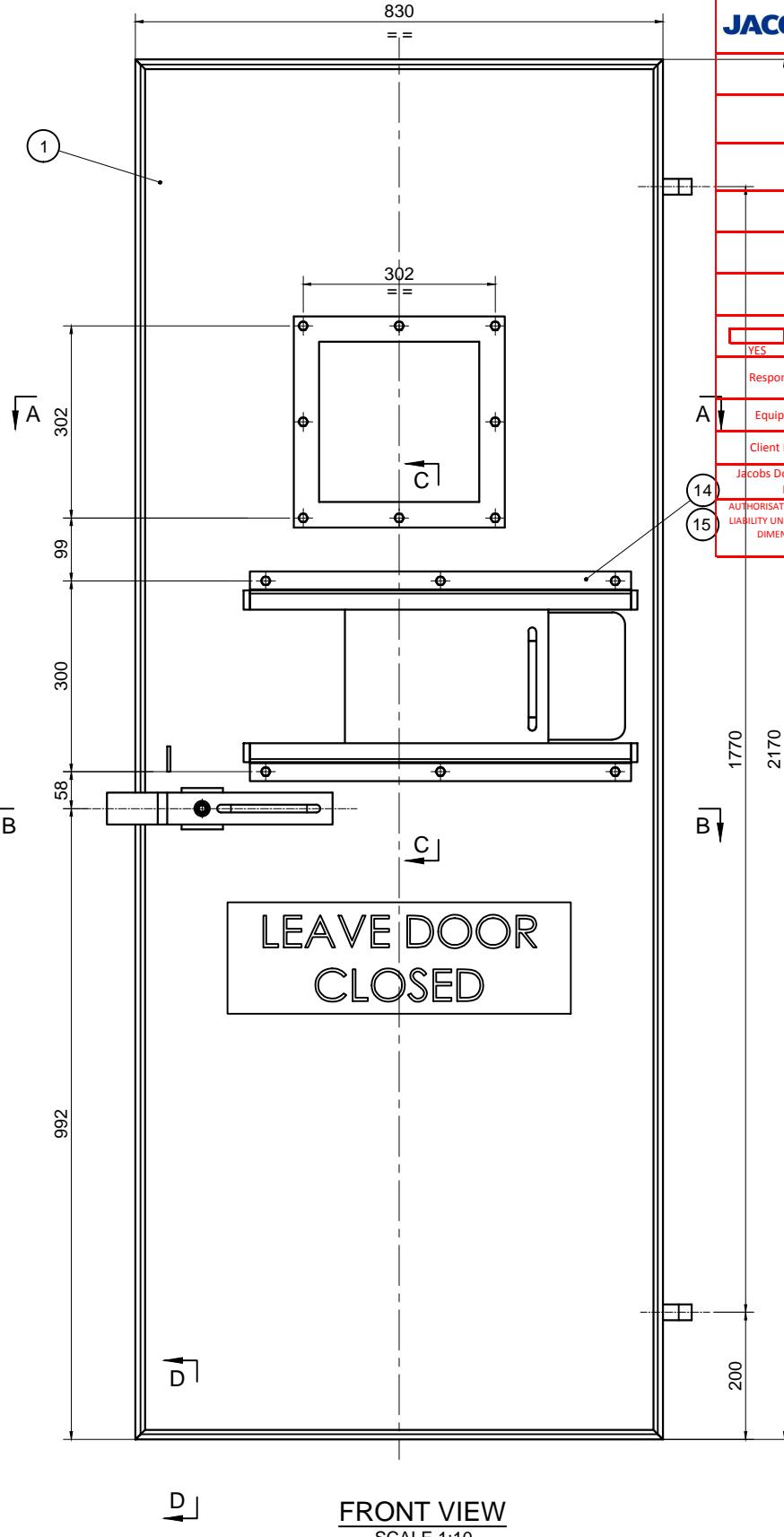


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PRODUCED BY Luvan	DESIGNED BY F. HAKIM	DRAWN BY J. Xu	OUY TOLGOI UNDERGROUND PROJECT UNDERGROUND INFRASTRUCTURE AND MINING TRUCK SHOP HAULAGE LEVEL NORTH EXIT BULKHEAD 1883-D00-2001 PERSONAL EXIT AIRLOCK DOOR ASSEMBLY DETAIL-1 (SHEET 1 OF 6)
PROJECT NO SN1809	CHECK DESIGN D. RANKIN	CHECK DRAWING ODONCHIMEG B.	
CONTRACT NO 2107475	LEAD ENGINEER J. Xu	APPROVAL DATE 06/05/20	
DRAWING SIZE A3	AREA PROJECT ENGINEER TSOGTBAYAR M.	ENGINEERING MANAGER GANZORIG D.	
PLOT SCALE AS SHOWN	PROJECT MANAGER ERDENEBAAATAR G.	APPROVAL DATE 06/05/20	
CAD FILE NAME N/A	CLIENT JACOBS	APPROVAL DATE ---	SCALE AS SHOWN
			DRAWING NUMBER 1883-15-S4-8006
			REV 0

No.	DESCRIPTION	DRAWING NO.	MATERIAL	QTY	WEIGHT / KG	
					UNIT	NET
1	PA DOOR	1883-15-S4-8009	Q345B, GB/T 1591	1	123.6	123.6
2	SEAL CLAMP PLATE	1883-15-S4-8010	Q345B, GB/T 1591	1	1.8	1.8
3	PERSPEX (275x275x4.5)	-	PERSPEX	1	0.3	0.3
4	WINDOW SINGLE SEAL (24x1.6THK.)	-	-	1	0.1	0.1
5	DOOR LATCH 1	1883-15-S4-8009	Q345B, GB/T 1591	1	1.5	1.5
6	DOOR LATCH 2	1883-15-S4-8009	Q345B, GB/T 1591	1	1.9	1.9
7	PRESSURE RELIEF DOOR	1883-15-S4-8009	Q345B, GB/T 1591	1	3.6	3.6
8	PRESSURE RELIEF DOOR SLIDER	1883-15-S4-8009	Q345B, GB/T 1591	2	1.9	3.8
9	GB/T 5782 M8x30 GALVANIZED BOLT, C/W 1 NUT, 1 FLAT WASHER & 1 SPRING WASHER	-	-	14	0.1	1.4
10	M20 WASHER	-	ASTM F436	1	0.1	0.1
11	M12 WASHER	-	ASTM F436	1	0.1	0.1
12	NY LOCK NUT	-	ASTM A563	1	0.1	0.1
					TOTAL:	138.30

TOTAL: 138.30



FRONT VIEW
SCALE 1:10

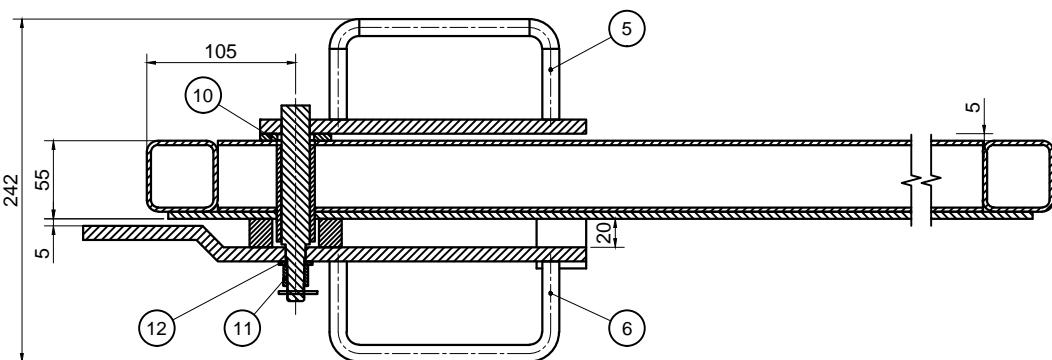
PA DOOR ASSEMBLY

SCALE 1:10
QTY: 2

(P2)
1883-15-S4-8006

SECTION A-A

SCALE 1:5



SECTION B-B

337

- NOTES:

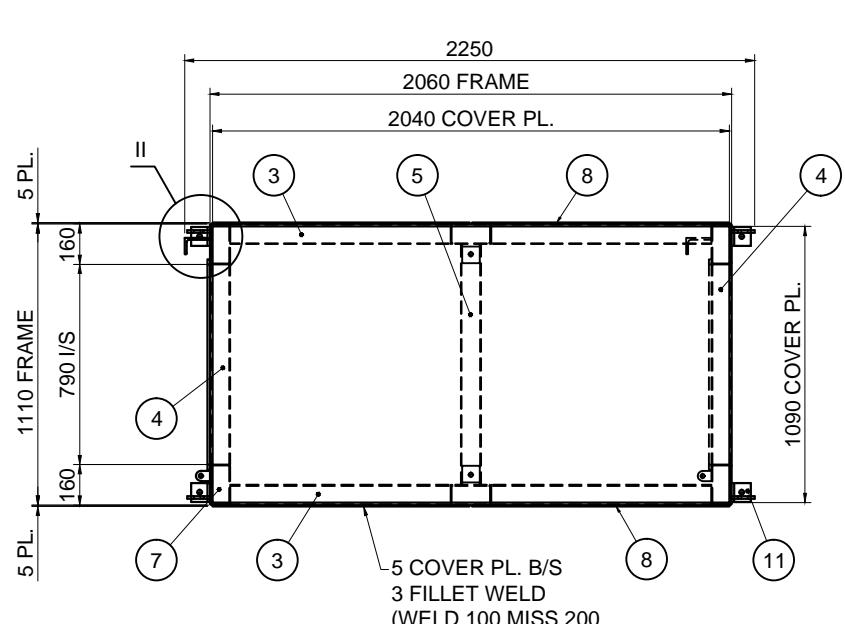
 1. DOORS WILL BE PRE-ASSEMBLED / INSTALLED AT SHOP AND SUBJECT TO TESTING PRIOR SHIPMENT
 2. DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS NOTED OTHERWISE.
 3. WELDING TASKS SHALL BE DONE WITH REQUIREMENTS OF AWS D1.1 STRUCTURAL WELDING CODE-STEEL.: WELDING SHALL BE 6mm CONTINUOUS FILLET WELD UNLESS NOTED OTHERWISE.
 4. ALL STEELWORK SHALL BE COATED SYSTEM 1 OF 0000-00-SPE-0002_6 AND COLOR OF THE PAINTING SHALL BE SAFETY YELLOW (RAL1021)



OYU TOLGOI LLC

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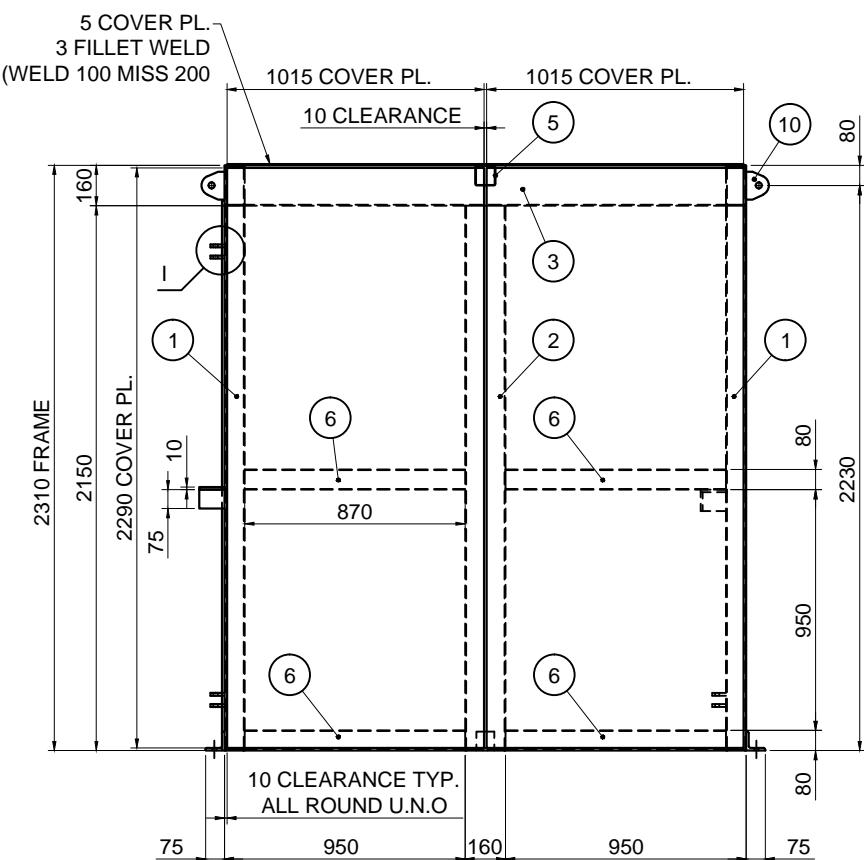


NOTES:

1. ALL WELDS TO BE 6 CFW AS PER AWS D1.1 U.N.O .
2. DIMENSIONS TOLERANCE TO BE $\pm 1.5\text{MM}$,
3. HOLES DIAMETER AND DISTANCE TOLERANCE TO BE $\pm 0.5 \text{ MM}$.
4. SURFACE TREATMENT COLOUR TO BE SAFETY YELLOW RAL1021 AS PER COATING SYSTEM 1 OF 0000-00-SPE-0002 REVISION 6.
5. ALL LIFTING LUGS WILL BE HARD STAMPED THAT "2.0t WLL".
6. ALL 2t LIFTING LUG WILL BE WELDED BY 8mm CFW.

No.	NAME	DETAILS			MATERIAL	QTY	WEIGHT / KG	
		DESCRIPTION	LENGTH	STANDARD			UNIT	NET
1	RHS 1	160x80x4	2310.0	GB/T 6728	Q345B, GB/T 1591	4	33.0	132.0
2	RHS 2	160x80x4	2150.0	GB/T 6728	Q345B, GB/T 1591	2	30.6	61.2
3	RHS 3	160x80x4	1900.0	GB/T 6728	Q345B, GB/T 1591	2	27.0	54.0
4	RHS 4	160x80x4	790.0	GB/T 6728	Q345B, GB/T 1591	2	11.5	23.0
5	SHS 1	80x80x3	950.0	GB/T 6728	Q345B, GB/T 1591	1	13.5	13.5
6	SHS 2	80x80x3	870.0	GB/T 6728	Q345B, GB/T 1591	8	13.5	108.0
7	END PLATE	152x172x4	172.0	GB/T 709	Q345B, GB/T 1591	10	1.0	10.0
8	COVER PLATE 1	1015x2290x5	2290.0	GB/T 709	Q345B, GB/T 1591	4	91.5	366.0
9	COVER PLATE 2	1090x2040x5	2040.0	GB/T 709	Q345B, GB/T 1591	1	87.0	87.0
10	2.0T LIFTING LUG	110x90x10	110.0	GB/T 709	Q345B, GB/T 1591	4	1.0	4.0
11	EQUAL ANGLE	75x75x10	75.0	GB/T 706	Q345B, GB/T 1591	6	1.0	6.0
12	UNEQUAL ANGLE	L100X65X7	75.0	GB/T 706	Q345B, GB/T 1591	2	1.0	2.0
13	HINGE PLATE	55x40x12	55.0	GB/T 709	Q345B, GB/T 1591	8	1.0	8.0
14	SEAL 01	2170x20x10	2170.0	ASTM D1418	POLYURETHANE	4	1.0	4.0
15	SEAL 02	790x20x10	790.0	ASTM D1418	POLYURETHANE	2	0.5	1.0
16	STOP PLATE	88x65x10	88.0	GB/T 709	Q345B, GB/T 1591	1	0.5	0.5
							TOTAL:	879.7

TOP VIEW
SCALE 1:30



FRONT VIEW
SCALE 1:30

AIRLOCK FRAME DETAILS

1883-15-S4-8006

SIDE VIEW
SCALE 1:30

EQUAL ANGLE DETAILS
SCALE 1:3



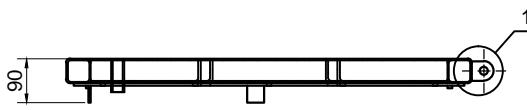
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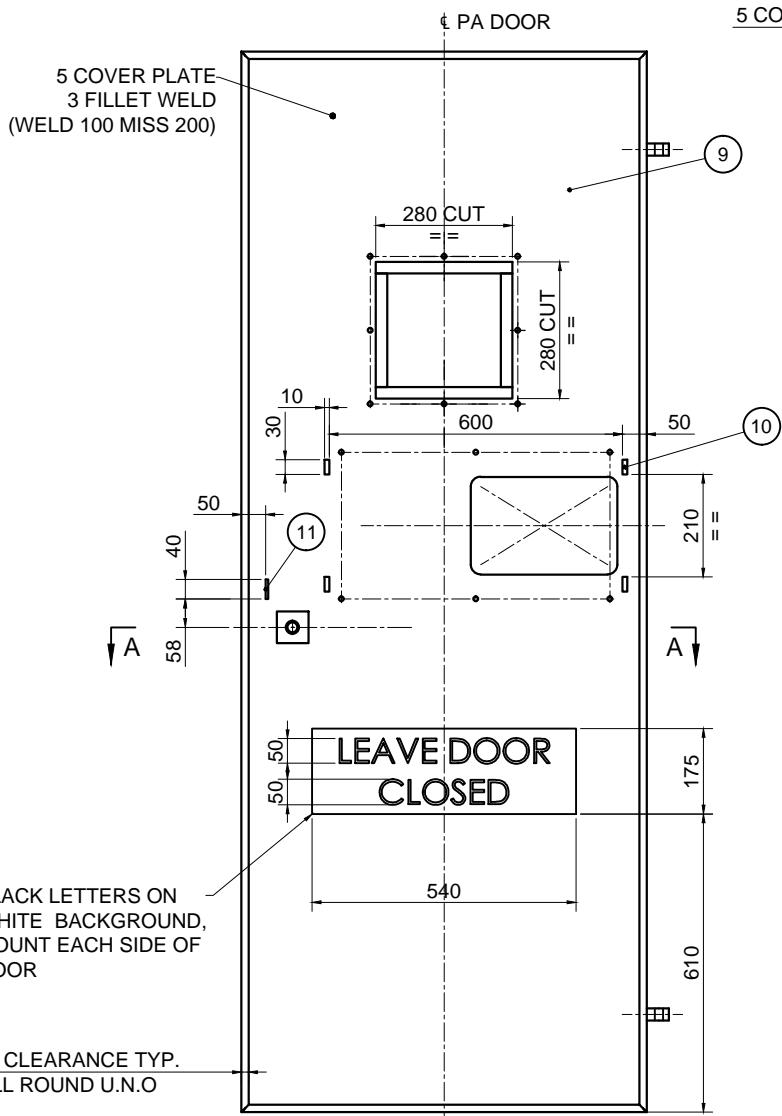
K in or by this document do not refer them to any other of these terms	PRODUCED BY Luvan	DESIGNED BY F. HAKIM	DRAWN BY J. Xu	OYU TOLGOI UNDERGROUND PROJECT UNDERGROUND INFRASTRUCTURE AND MINING TRUCK SHOP HAULAGE LEVEL NORTH EXIT BULKHEAD 1883-D00-2001 PERSONAL EXIT AIRLOCK FRAME DETAILS (SHEET 3 OF 6)		
	PROJECT NO SN1809	CHECK DESIGN D. RANKIN	CHECK DRAWING ODONCHIMEG B.			
	CONTRACT NO 2107475	LEAD ENGINEER J. Xu	APPROVAL DATE 06/05/20			
	DRAWING SIZE A3	AREA PROJECT ENGINEER TSOGTBayar M.	ENGINEERING MANAGER GANZORIG D.			
	PLOT SCALE AS SHOWN	PROJECT MANAGER ERDENEBAAATAR G.	APPROVAL DATE 06/05/20			
	CAD FILE NAME N/A	CLIENT JACOBS	APPROVAL DATE ---	SCALE AS SHOWN	DRAWING NUMBER 1883-15-S4-8008	REV. 0

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TOP VIEW

SCALE 1:15



FRONT VIEW

SCALE 1:15

5 COVER PL.

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PA DOOR

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PA DOOR

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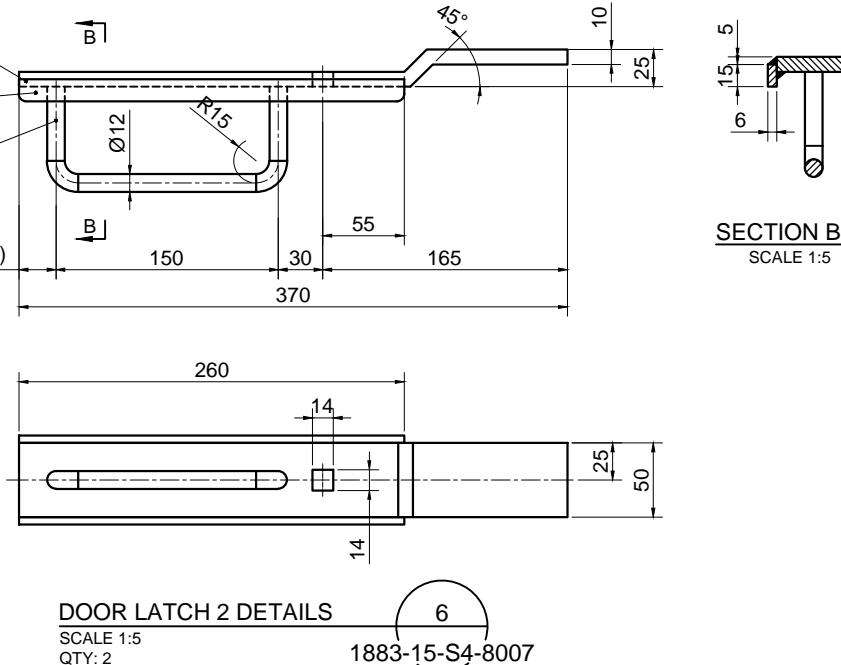
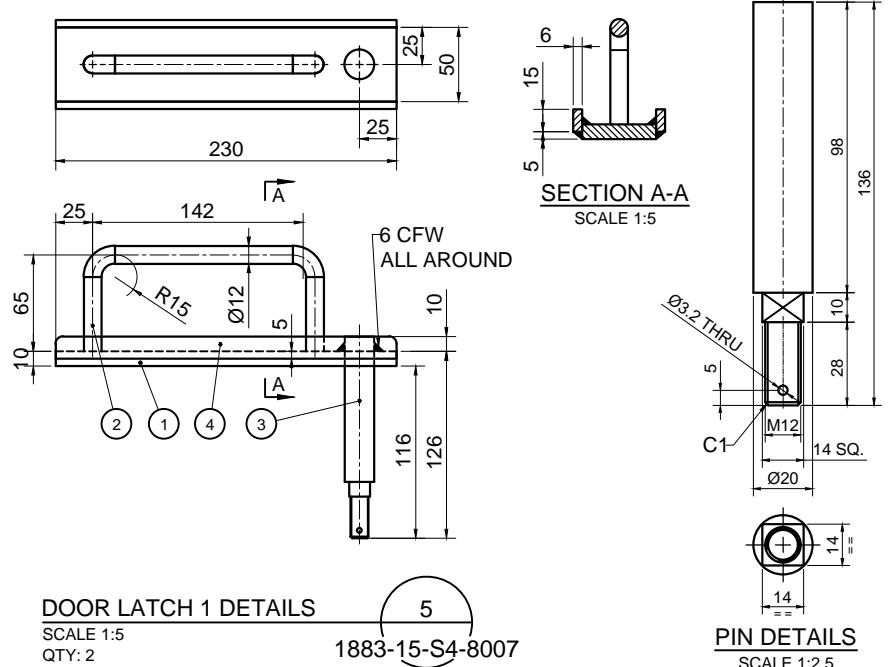
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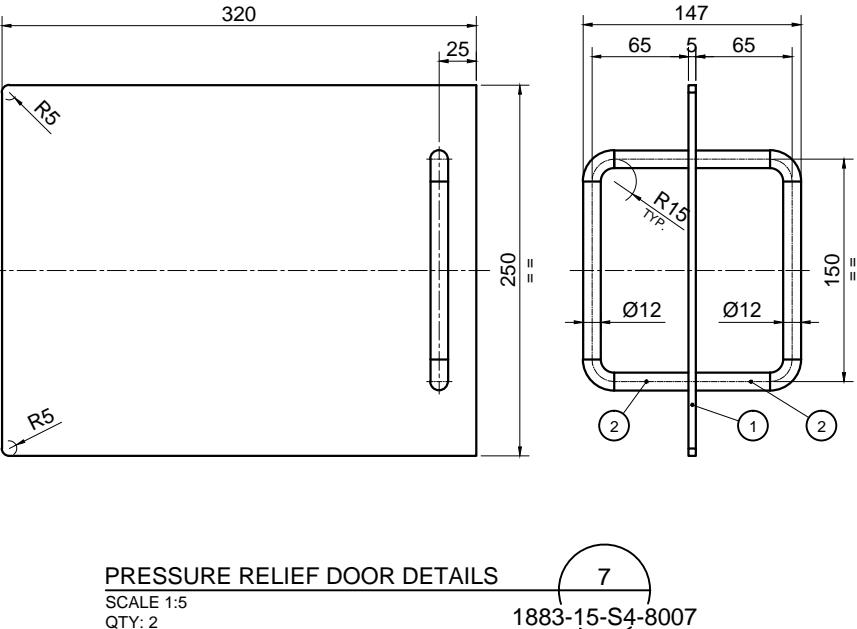
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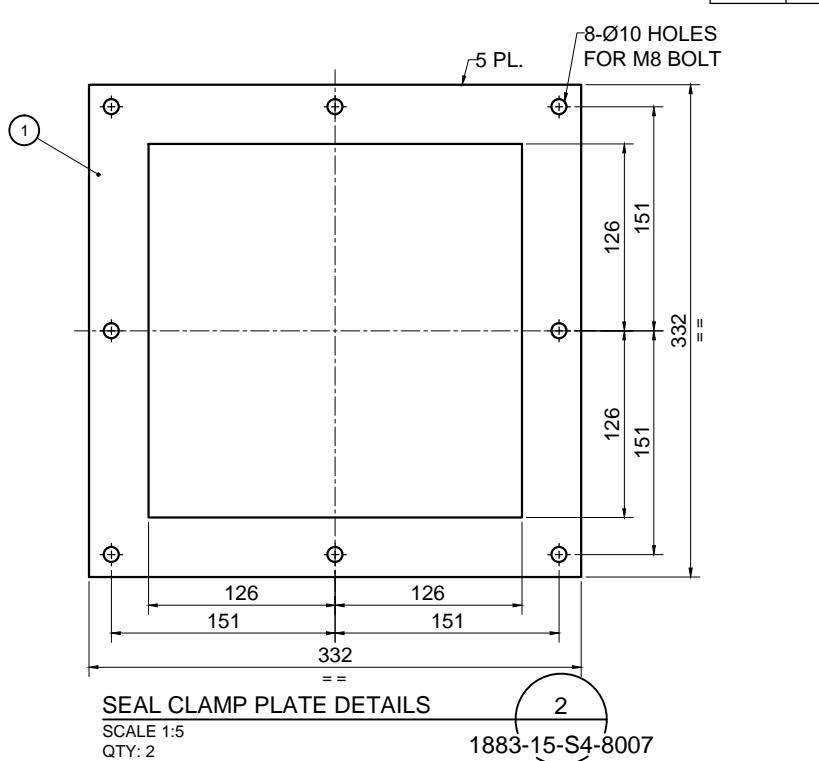
No.	NAME	DETAILS			MATERIAL	QTY	WEIGHT / KGS	
		DESCRIPTION	LENGTH	STANDARD			UNIT	NET
1	LATCH PLATE 1	260x50x10	260.0	GB/T 709	Q345B, GB/T 1591	1	0.9	0
2	STEEL BAR	Ø12	260.0	GB/T 702	20#, GB/T 699	1	0.3	0
3	PIN	Ø20	120.0	GB/T 702	45#, GB/T 699	1	0.3	0
4	STIFFENER	230x15x6	230.0	GB/T 709	Q345B, GB/T 1591	2	0.2	0
							TOTAL:	1



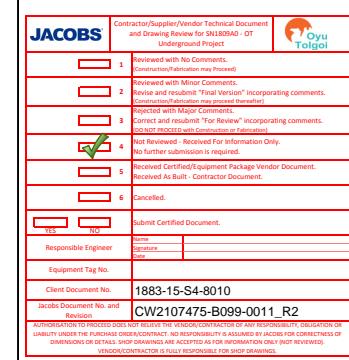
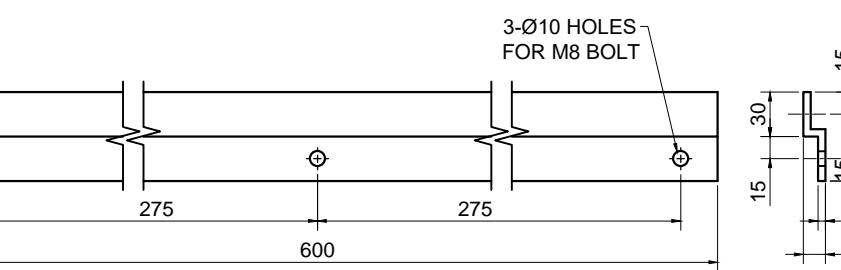
No.	NAME	DETAILS			MATERIAL	QTY	WEIGHT / KC	
		DESCRIPTION	LENGTH	STANDARD			UNIT	NET
1	PLATE	320x250x5	320.0	GB/T 709	Q345B, GB/T 1591	1	3.0	3.0
2	STEEL BAR	Ø12	260.0	GB/T 702	20#, GB/T 699	2	0.3	0.6
							TOTAL:	3.6



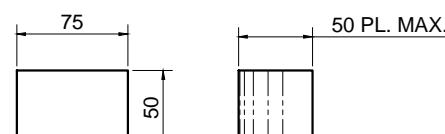
No.	NAME	DETAILS			MATERIAL	QTY	WEIGHT / KGS	
		DESCRIPTION	LENGTH	STANDARD			UNIT	NET
1	SEAL CLAMP PLATE	332x332x5	332.0	GB/T 709	Q345B, GB/T 1591	1	1.8	1
							TOTAL:	1



No.	NAME	DETAILS			MATERIAL	QTY	WEIGHT	
		DESCRIPTION	LENGTH	STANDARD			UNIT	
1	SLIDER PLATE	600x65x5	600.0	GB/T 709	Q345B, GB/T 1591	1	1.9	TOTAL:



No.	NAME	DETAILS			MATERIAL	QTY	WEIGHT / KG	
		DESCRIPTION	LENGTH	STANDARD			UNIT	NET
1	SHIM PLATE 1	75x50x1	75.0	GB/T 709	Q345B, GB/T 1591	1	0.01	0.0
2	SHIM PLATE 2	75x50x3	75.0	GB/T 709	Q345B, GB/T 1591	1	0.09	0.0
3	SHIM PLATE 3	75x50x6	75.0	GB/T 709	Q345B, GB/T 1591	1	0.18	0.1
4	SHIM PLATE 4	75x50x10	75.0	GB/T 709	Q345B, GB/T 1591	2	0.29	0.5
5	SHIM PLATE 5	75x50x20	76.0	GB/T 709	Q345B, GB/T 1591	1	0.58	0.5
							TOTAL:	1.4



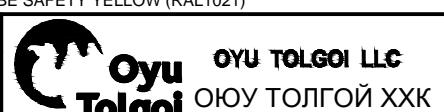
SHIM PLATE DETAILS P4
SCALE 1:5 1883-15-S4-
QTY: 6 SETS

VENDOR DOCUMENT NUMBER	1883-20-A1-V8014
JACOBS DOCUMENT NUMBER	CW2107475-B099-0011_R2

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NOTES:

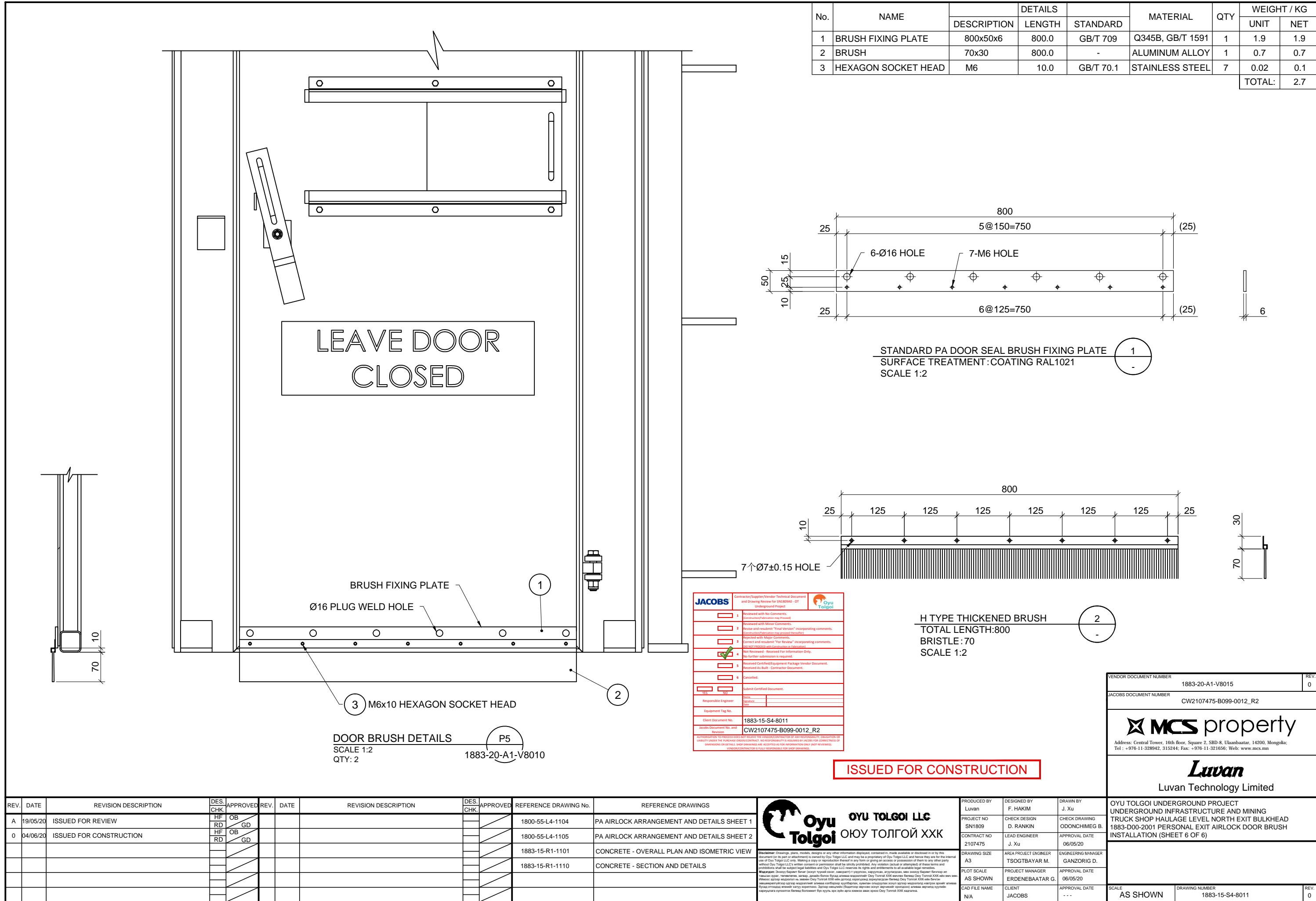
1. DIMENSIONS ARE SHOWN IN MILLIMETERS U.N.O
2. WELDING TASKS SHALL BE DONE WITH REQUIREMENTS OF AWS D1.1 STRUCTURAL WELDING CODE-STEEL. WELDING SHALL BE 6mm CONTINUOUS FILLET WELD UNLESS NOTED OTHERWISE.
3. ALL STEELWORK SHALL BE COATED SYSTEM 1 OF 0000-00-SPE-0002_6 AND COLOR OF THE PAINTING SHALL BE SAFETY YELLOW (RAL1021)

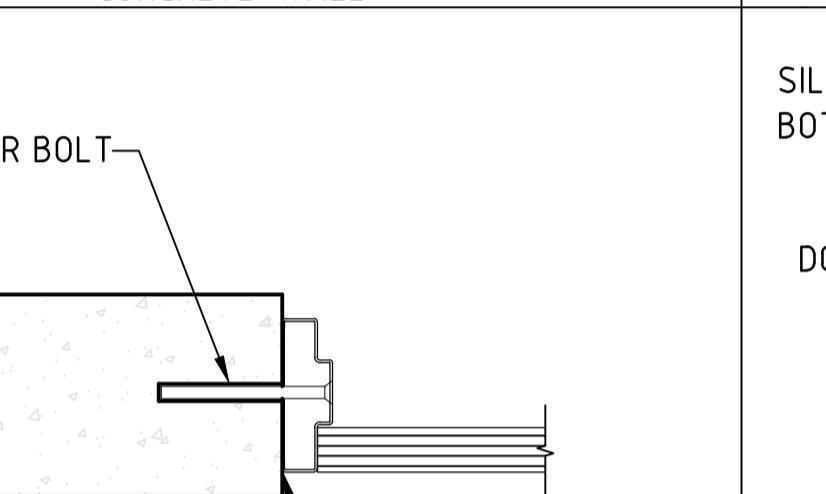
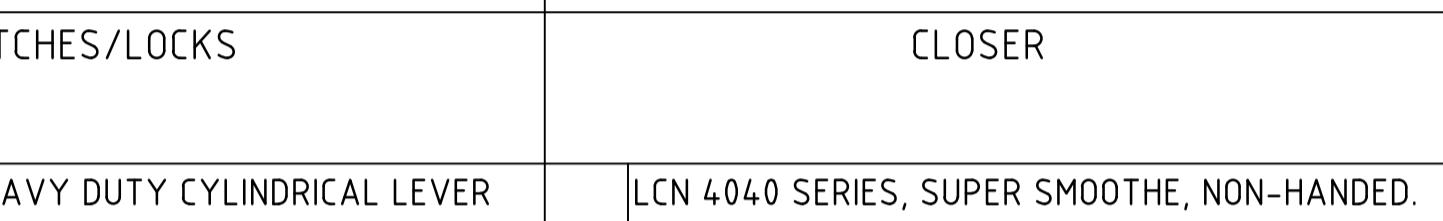
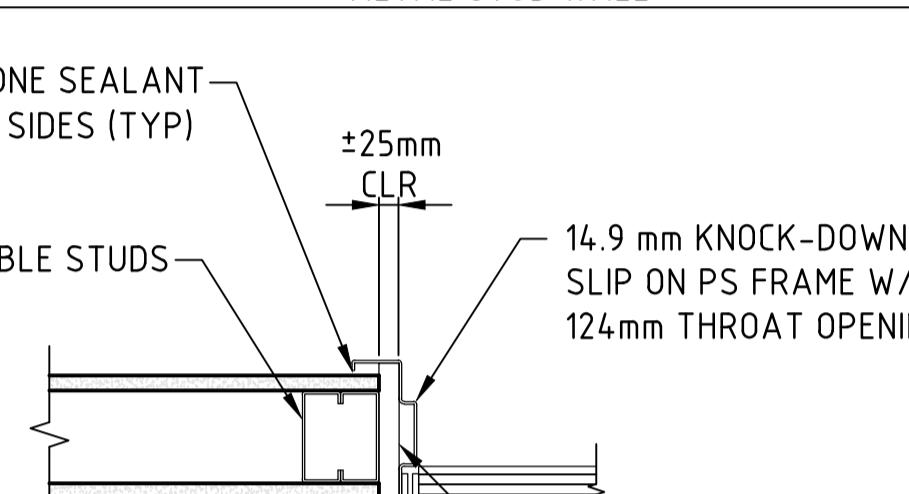


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PRODUCED BY Jvan	DESIGNED BY F. HAKIM	DRAWN BY J. Xu	OYU TOLGOI UNDERGROUND PROJECT UNDERGROUND INFRASTRUCTURE AND MINING TRUCK SHOP HAULAGE LEVEL NORTH EXIT BULKHEAD 1883-D00-2001 PERSONAL EXIT AIRLOCK DOOR ACCESSORIES DETAIL (SHEET 5 OF 6)
JECT NO N1809	CHECK DESIGN D. RANKIN	CHECK DRAWING ODONCHIMEG B.	
TRACT NO 07475	LEAD ENGINEER J. Xu	APPROVAL DATE 06/05/20	
WING SIZE 3	AREA PROJECT ENGINEER TSOGTBAYAR M.	ENGINEERING MANAGER GANZORIG D.	
T SCALE S SHOWN	PROJECT MANAGER ERDENEBAAATAR G.	APPROVAL DATE 06/05/20	
FILE NAME A	CLIENT JACOBS	APPROVAL DATE ---	SCALE AS SHOWN
			DRAWING NUMBER 1883-15-SA-8010



DOOR SCHEDULE																																	
AREA	DOOR NUMBER	LOCATION		DOOR							FRAME		HDW GROUP SEE ADJACENT TABLE FOR DETAIL	FIRE LABEL	REMARKS																		
		FROM	TO	TYPE	ACTION	GLASS	LOUVER	WIDTH	HEIGHT	THICKNESS	MAT.	FINISH																					
LUNCHROOM	101	BAY #1	LUNCHROOM	A	LHR	-	UC	1100	2250	45	HM	PAINT	JBW	150	PS	PAINT	HW1																
	102	LUNCHROOM	HVAC AREA	A	RHR	-	UC	800	2050	45	HM	PAINT	JMS	124	PS	PAINT	HW1																
DOOR HANDING														FRAME TYPES																			
SINGLE DOORS														(JBW) MANDOOR JAMB AT CONCRETE WALL																			
														(JMS) MANDOOR JAMB AT METAL STUD WALL																			
														SILICONE SEALANT BOTH SIDES (TYP)																			
LATCHES/LOCKS							CLOSER							WALL FRAMING 1 LAYER OF 16mm THICK GYPSUM BOARD EACH SIDE OVER 92mm METAL STUDS AT 400 O/C.																			
L1	PASSAGE SET. HEAVY DUTY CYLINDRICAL LEVER RUSSWIN CL3300 SERIES, CL3310, NZD LEVER, 70mm (2 3/4") BACKSET, BHMA 626.	C1	LCN 4040 SERIES, SUPER SMOOTH, NON-HANDED. PARALLEL ARM, PUSH SIDE MOUNT, EXTRA DUTY ARM. STANDARD COVER, ALUM POWDER COAT FINISH.											STEEL STUD WALL ANCHOR																			
PLATES							HINGES							CAULK ALL AROUND BOTH SIDES																			
P1	KICK PLATE: HAGER 224S, 1.7mm THICK, UNBEVELLED EDGES, 305 HIGH, STAINLESS STEEL, 630 FINISH MOUNT - BOTH SIDES OF DOOR	H1	114mm X 114 mm FULL MORTISE STANLEY FBB 199. STAINLESS STEEL SATIN FINISH, NRP, 3 HINGES PER LEAF UNO.											CONCRETE WALL																			
DOOR STOPS														±25mm CLR																			
DS1	HINGED MOUNTED DOOR STOP: DELTANA HP70													14.9 mm KNOCK-DOWN SLIP ON PS FRAME W/ 124mm THROAT OPENING																			
HARDWARE GROUPS														STEEL STUD WALL ANCHOR																			
HW1	L1, H1, DS1, C1, P1													WALL FRAMING 1 LAYER OF 16mm THICK GYPSUM BOARD EACH SIDE OVER 92mm METAL STUDS AT 400 O/C.																			
DOOR SCHEDULE							ABBREVIATIONS							DOOR SCHEDULE																			
TYPE A							<table border="1"> <tr> <td>HM</td><td>-HOLLOW METAL</td> <td>LHR</td><td>-LEFT HAND REVERSE</td> </tr> <tr> <td>PS</td><td>-PRESSED STEEL</td> <td>S</td><td>-STEEL</td> </tr> <tr> <td>RH</td><td>-RIGHT HAND</td> <td>RO</td><td>-ROUGH OPENING</td> </tr> <tr> <td>RHR</td><td>-RIGHT HAND REVERSE</td> <td>UC</td><td>-UNDER CUT DOOR</td> </tr> <tr> <td>LH</td><td>-LEFT HAND</td><td></td><td></td> </tr> </table>							HM	-HOLLOW METAL	LHR	-LEFT HAND REVERSE	PS	-PRESSED STEEL	S	-STEEL	RH	-RIGHT HAND	RO	-ROUGH OPENING	RHR	-RIGHT HAND REVERSE	UC	-UNDER CUT DOOR	LH	-LEFT HAND		
HM	-HOLLOW METAL	LHR	-LEFT HAND REVERSE																														
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RH	-RIGHT HAND	RO	-ROUGH OPENING																														
RHR	-RIGHT HAND REVERSE	UC	-UNDER CUT DOOR																														
LH	-LEFT HAND																																
							INTERIOR SINGLE LEAF FLUSH HOLLOW METAL WITH PRESSED METAL FRAME							TYPE A																			

NOTES

1. DIMENSIONS IN MILLIMETRES
 2. FOR GENERAL NOTES REFER TO DRAWING
N° 1883-20-A1-1101.
 3. REFER TO DRG. N°1883-20-A1-1102 FOR
DOOR LOCATION

CONSTRUCTION ISSUE



CAUTION - PROJECT DRAWING - NOT AS BUILT

DOOR SCHEDULE																																			
AREA	DOOR NUMBER	LOCATION		DOOR						FRAME		HDW GROUP SEE ADJACENT TABLE FOR DETAIL	FIRE LABEL	REMARKS																					
		FROM	TO	TYPE	ACTION	GLASS	LOUVER	WIDTH	HEIGHT	THICKNESS	MAT.	FINISH																							
TRUCK SHOP OFFICE	101	DRIFT	CORRIDOR	A	LHR	-	UC	1050	2350	45	HM	PAINT	JBW	150	PS	PAINT	HW1																		
	102	CORRIDOR	IT ROOM	A	LHR	-	UC	1050	2350	45	HM	PAINT	JMS	124	PS	PAINT	HW1																		
	103	CORRIDOR	OFFICE 1	B	LH	G1/V1	UC	800	2050	45	HM	PAINT	JMS	124	PS	PAINT	HW2	SIDE LITE IN FRAME WITH G1 GLAZING																	
	104	CORRIDOR	OFFICE 2	B	RH	G1/V1	UC	800	2050	45	HM	PAINT	JMS	124	PS	PAINT	HW2	SIDE LITE IN FRAME WITH G1 GLAZING																	
	105	CORRIDOR	MEETING ROOM	B	RH	G1/V1	UC	800	2050	45	HM	PAINT	JMS	124	PS	PAINT	HW2	SIDE LITE IN FRAME WITH G1 GLAZING																	
	106	CORRIDOR	SERVICE BAY	A	RHR	-	UC	800	2050	45	HM	PAINT	JBW	150	PS	PAINT	HW1																		
DOOR HANDING													DOOR STOPS				LITES																		
SINGLE DOORS							DS1 HINGED MOUNTED DOOR STOP: DELTANA HP70						V1	SIDE - 900mm X 1850mm		HARDWARE GROUPS																			
							DS1 HINGED MOUNTED DOOR STOP: DELTANA HP70						V1	SIDE - 900mm X 1850mm		HARDWARE GROUPS																			
LATCHES/LOCKS							HW1 L1, H1, DS1, C1, P1						HW2	L1, H1, DS1		FRAME TYPES																			
L1	PASSAGE SET. HEAVY DUTY CYLINDRICAL LEVER RUSSWIN CL3300 SERIES, CL3310, NZD LEVER, 70mm (2 3/4") BACKSET, BHMA 626.			C1	LCN 4040 SERIES, SUPER SMOOTH, NON-HANDED. PARALLEL ARM, PUSH SIDE MOUNT, EXTRA DUTY ARM. STANDARD COVER, ALUM POWDER COAT FINISH.						(JBW) MANDOOR JAMB AT CONCRETE WALL		(JMS) MANDOOR JAMB AT METAL STUD WALL		DOOR TYPES																				
																			ABBREVIATIONS																
P1	PLATES			HINGES														NOTES																	
	KICK PLATE HAGER 224S: 1.7mm THICK, UNBEVELLED EDGES, 305 HIGH, STAINLESS STEEL, 630 FINISH MOUNT - BOTH SIDES OF DOOR			H1 114mm X 114 mm FULL MORTISE STANLEY FBB 199. STAINLESS STEEL SATIN FINISH, NRP, 3 HINGES PER LEAF UNO.														<ol style="list-style-type: none"> 1. DIMENSIONS IN MILLIMETRES 2. FOR GENERAL NOTES REFER TO DRAWING N° 1883-20-A1-1101. 3. REFER TO DRG. N°1883-20-A1-1105 FOR DOOR LOCATION. 																	
G1	GLAZING																	CONSTRUCTION ISSUE																	
	LAMINATED SAFETY GLASS CONSISTING OF 2 LAYERS OF 3mm CLEAR FLOAT GLASS WITH VINYL INTERLAYER.																																		
INTERIOR SINGLE LEAF FLUSH HOLLOW METAL WITH PRESSED METAL FRAME													TYPE A		TYPE B																				
INTERIOR SINGLE LEAF FLUSH HOLLOW METAL WITH PRESSED METAL FRAME AND GLAZED SIDELITE																																			

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		CAD FILE NAME 1883-20-A1-1107.DWG

JACOBS

Jobs Document No.
J1809-1883/RB.DRG/1107

Place #32-01 Singapore Land Tower,
Singapore, 048623 (the offshore Contractor)

Web: www.jacobs.com

DXUL TOLCOL UNDERGROUND PROJECT

YU TULGUI UNDERGROUND PROJECT
UNDERGROUND WORKSHOPS

UNDERGROUND WORKSHOPS

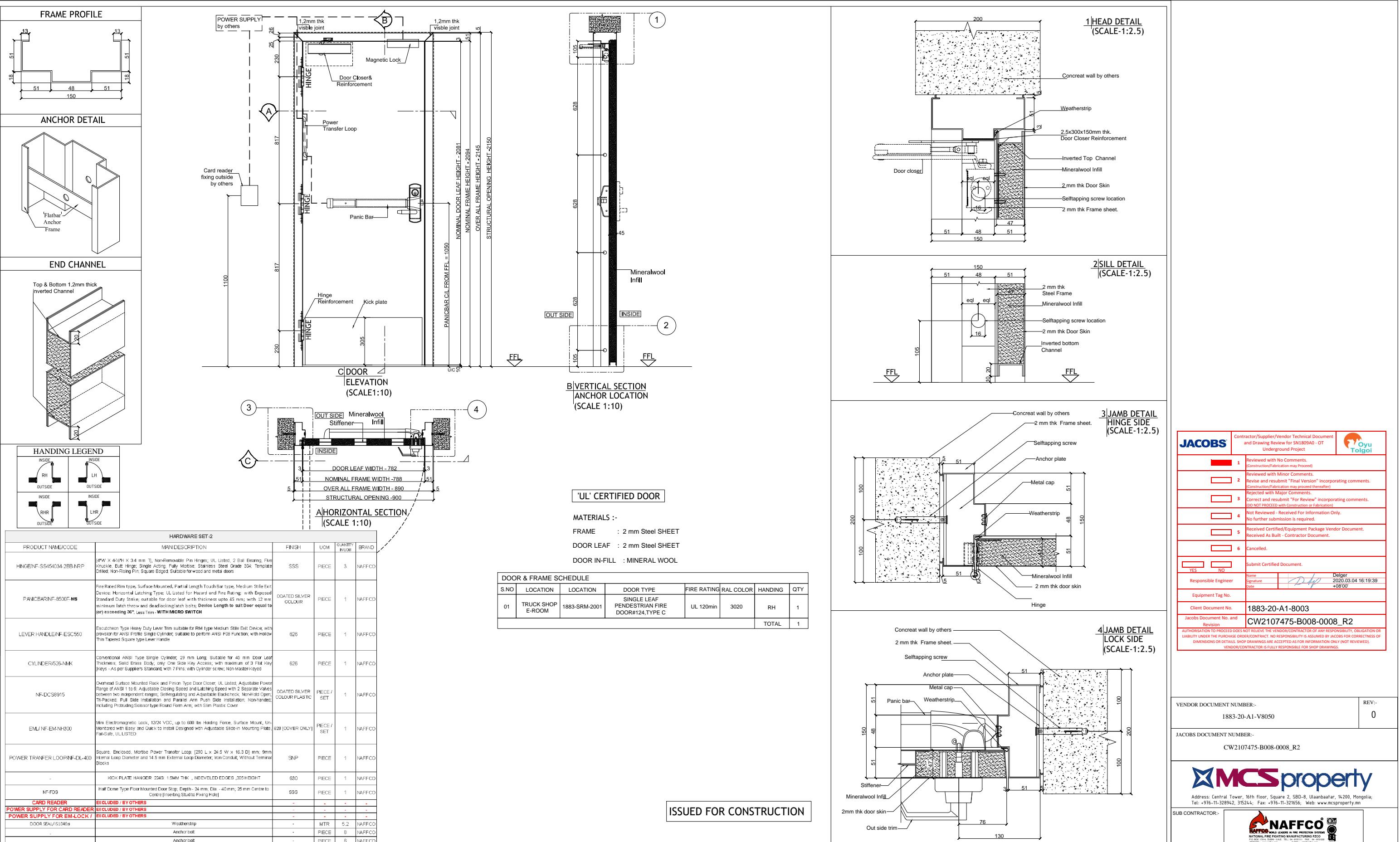
TRUCK SHOP HAULAGE LEVEL

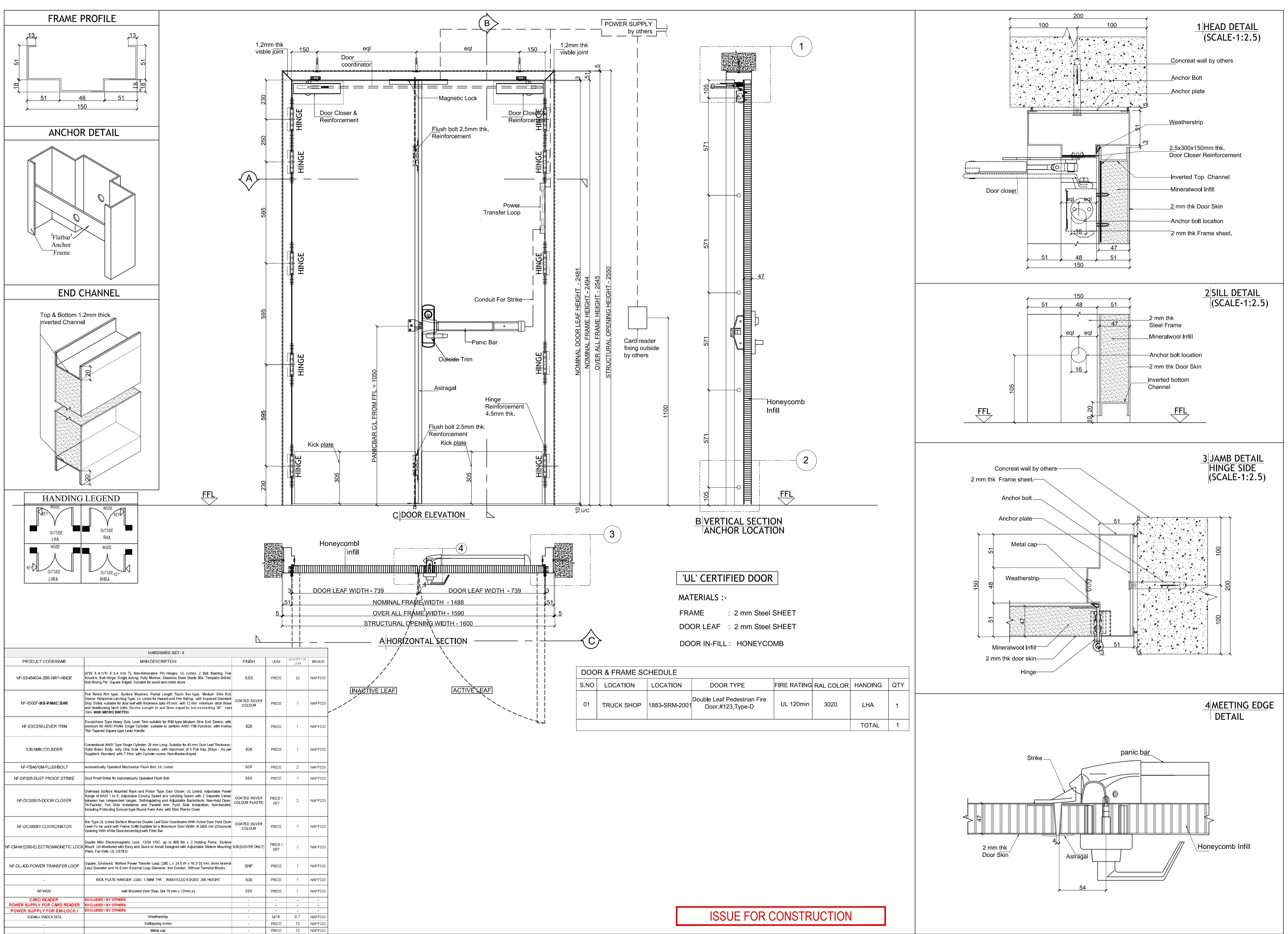
ARCHITECTURE - OFFICE - DOOR SCHEDULE

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CONTRACT NO 2107475	LEAD ENGINEER -	DATE 06.02.2020
DRAWING SIZE A1	AREA PROJECT ENGINEER TSOGTBAYAR M.	ENGINEERING MANAGER GANZORIG D.
PLOT SCALE 1:10 & 1:2.5	PROJECT MANAGER ERDENEBAATAR G.	APPROVAL DATE
CAD FILE NAME 1883-20-A1-8004	CLIENT JACOBS	APPROVAL DATE
SCALE 1:10 & 1:2.5	DRAWING NUMBER 1883-20-A1-8004	REV. ORL

JACOBS		Contractor/Supplier/Vendor Technical Document and Drawing Review for SN1809A0 - OT Underground Project
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Oyu Tolgoi UNDERGROUND PROJECT
UNDERGROUND WORKSHOPS
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