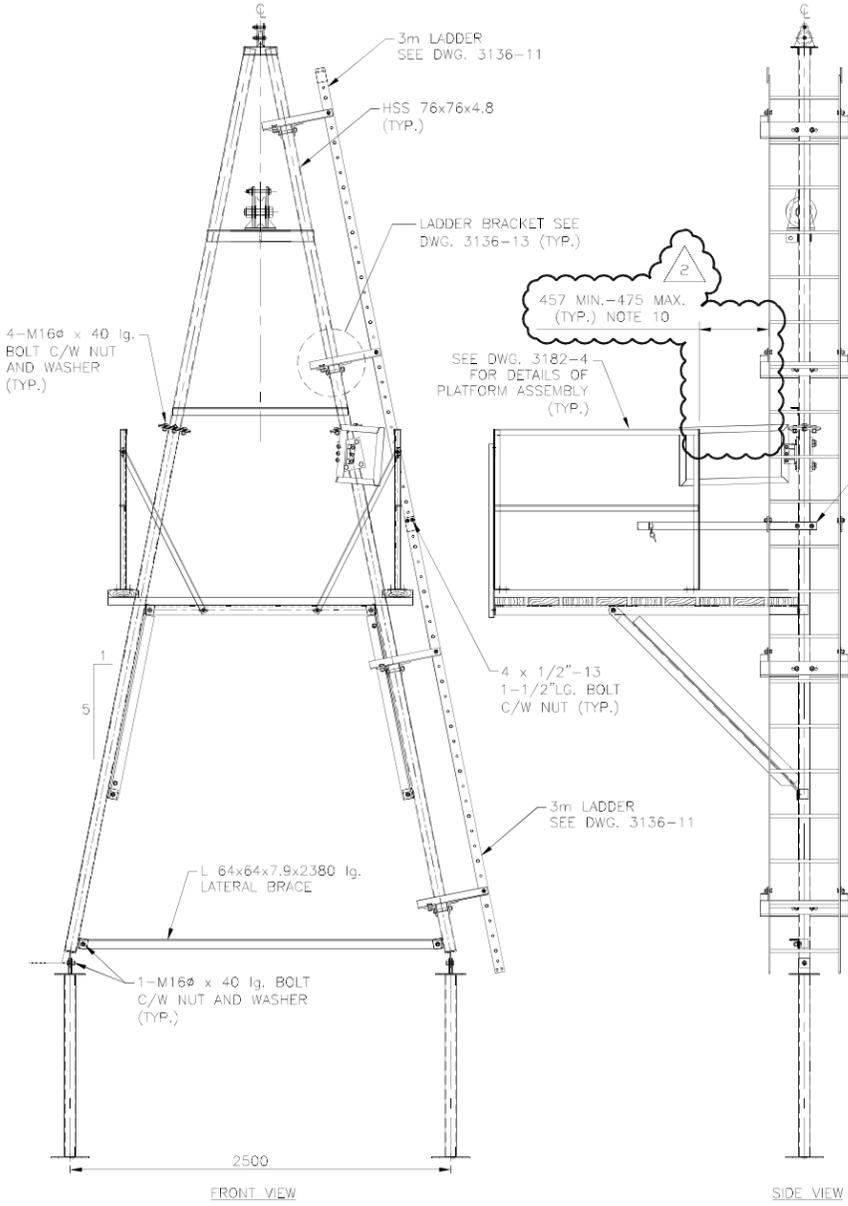


5.0 m LIGHT A-FRAME

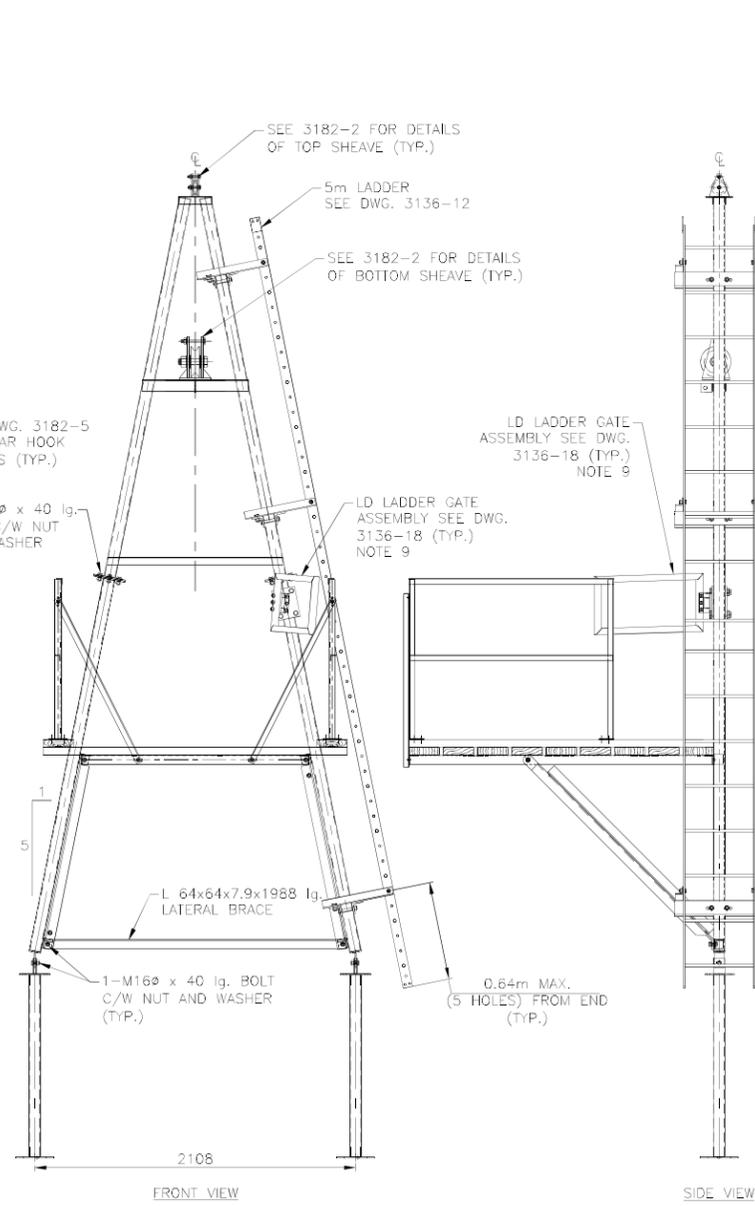
QTY.	DESCRIPTION	DWG.	SUPPLIER
1	1.5m A-FRAME TOP	3182-2	FABRICATOR
1	CAR HOOK ASSEMBLY	3182-5	FABRICATOR
12	M16x40 A325M GALV. STRUCTURAL BOLTS	3182-1	FABRICATOR
12	M16x120 A325M GALV. STRUCTURAL BOLTS	3182-1	FABRICATOR
10	U-BOLTS FOR BRACKET	3182-1	FABRICATOR
2	FOOTINGS OR FOOTING PLATES (FOR CRIBBING)	3182-3	FABRICATOR
1	3.5m LEG ASSEMBLY	3182-3	FABRICATOR
1	2.38m LATERAL BRACE	3182-1	FABRICATOR
1	PLATFORM ASSEMBLY FOR 5m A-FRAME	3182-4	FABRICATOR
4	LADDER BRACKET ASSEMBLY	3136-13	FABRICATOR
2	3m LADDER	3136-11	FABRICATOR
1	LD LADDER GATE ASSEMBLY	3136-18	FABRICATOR
4	1/2"-13 1-1/2"LG. ASTM - A325M GALV. HEX BOLTS	-	FABRICATOR
4	1/2"-13 ASTM A325M GALV. HEX NUTS	-	FABRICATOR



5.0 m LIGHT A-FRAME
1:25

4.0 m LIGHT A-FRAME

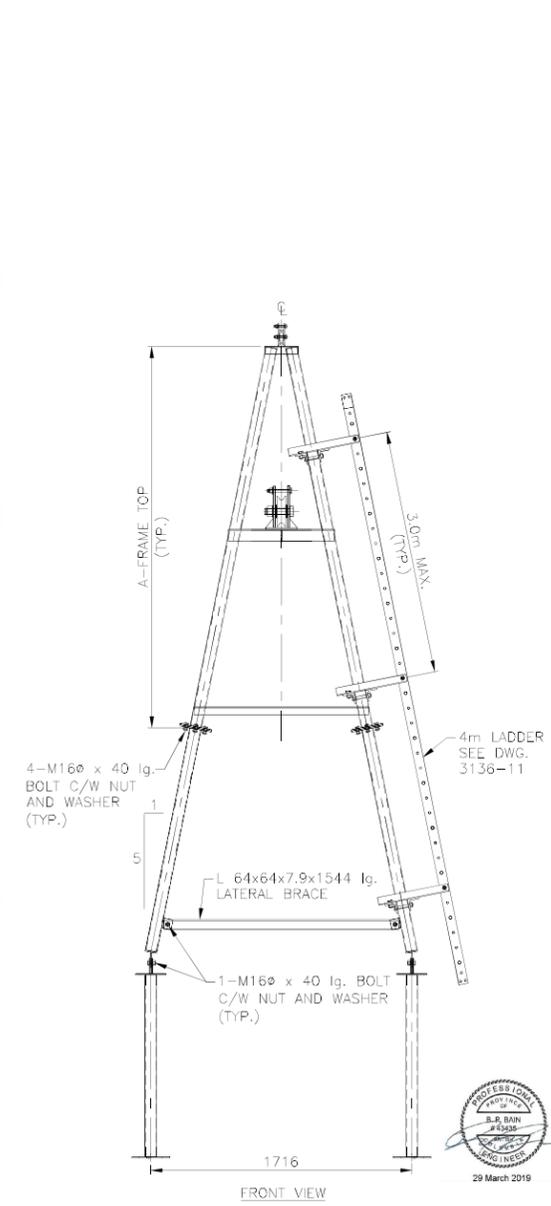
QTY.	DESCRIPTION	DWG.	SUPPLIER
1	1.5m A-FRAME TOP	3182-2	FABRICATOR
1	CAR HOOK ASSEMBLY	3182-5	FABRICATOR
12	M16x40 A325M GALV. STRUCTURAL BOLTS	3182-1	FABRICATOR
12	M16x120 A325M GALV. STRUCTURAL BOLTS	3182-1	FABRICATOR
10	U-BOLTS FOR BRACKET	3182-1	FABRICATOR
2	FOOTINGS OR FOOTING PLATES (FOR CRIBBING)	3182-3	FABRICATOR
1	2.5m LEG ASSEMBLY	3182-3	FABRICATOR
1	1.98m LATERAL BRACE	3182-1	FABRICATOR
1	PLATFORM ASSEMBLY FOR 4m A-FRAME	3182-4	FABRICATOR
3	LADDER BRACKET ASSEMBLY	3136-13	FABRICATOR
1	5m LADDER	3136-12	FABRICATOR
1	LD LADDER GATE ASSEMBLY	3136-18	FABRICATOR



4.0 m LIGHT A-FRAME
1:25

3.0 m LIGHT A-FRAME

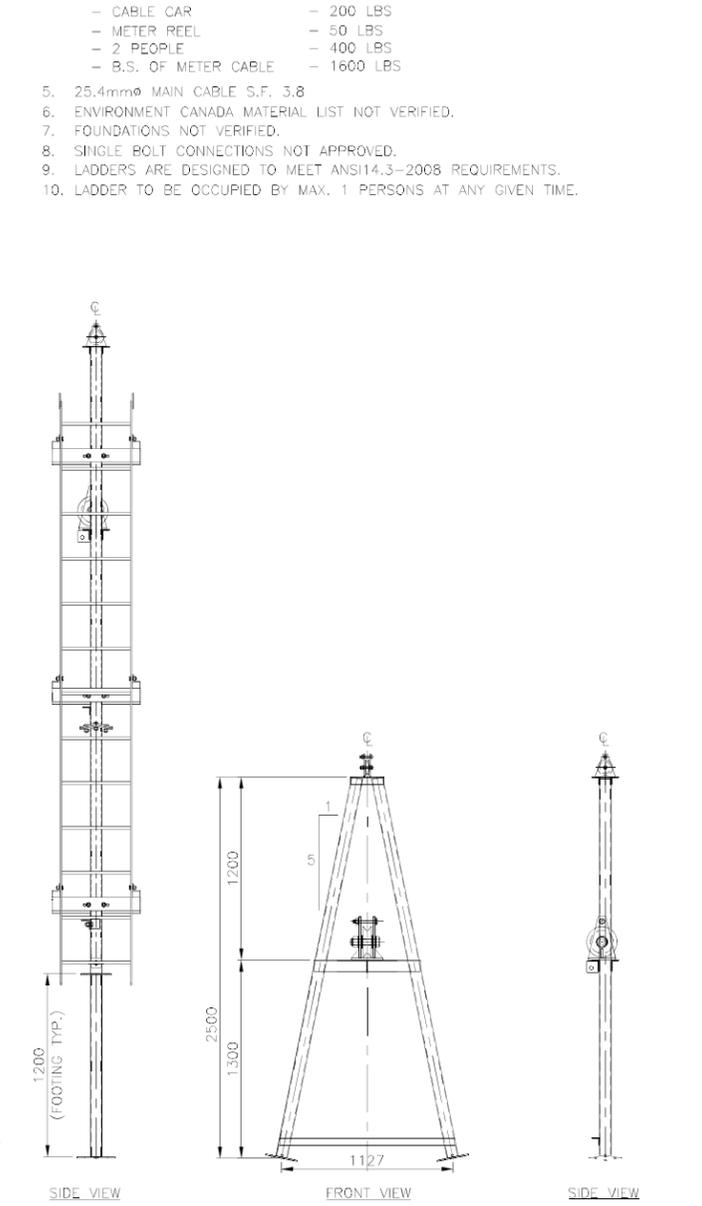
QTY.	DESCRIPTION	DWG.	SUPPLIER
1	1.5m A-FRAME TOP	3182-2	FABRICATOR
1	CAR HOOK ASSEMBLY	3182-5	FABRICATOR
12	M16x40 A325M GALV. STRUCTURAL BOLTS	3182-1	FABRICATOR
10	M16x120 A325M GALV. STRUCTURAL BOLTS	3182-1	FABRICATOR
8	U-BOLTS FOR BRACKET	3182-1	FABRICATOR
2	FOOTINGS OR FOOTING PLATES (FOR CRIBBING)	3182-3	FABRICATOR
1	1.5m LEG ASSEMBLY	3182-3	FABRICATOR
1	1.54m LATERAL BRACE	3182-1	FABRICATOR
3	LADDER BRACKET ASSEMBLY	3136-13	FABRICATOR
1	4m LADDER	3136-11	FABRICATOR



3.0 m LIGHT A-FRAME
1:25

1.5 m LIGHT A-FRAME

QTY.	DESCRIPTION	DWG.	SUPPLIER
1	1.5m A-FRAME TOP	3182-2	FABRICATOR
2	1.5m A-FRAME SPLICE PLATES	3182-2	FABRICATOR
2	FOOTINGS OR FOOTING PLATES (FOR CRIBBING)	3182-3	FABRICATOR
1	1.15m LATERAL BRACE	3182-2	FABRICATOR



1.5 m LIGHT A-FRAME TOP
1:25

NOTES:

- ALL STEEL SHALL CONFORM TO CSA C40.21M STRUCTURAL QUALITY STEEL.
- ALL PARTS TO BE HOT DIP GALVANIZED AS PER ASTM A123/A123M.
- ALL NUTS AND BOLTS TO BE M16, A325M, GALVANIZED, UNLESS NOTED OTHERWISE.
- ALL BOLT HOLES TO BE DRILLED 2mm LARGER THAN BOLTS UNLESS NOTED OTHERWISE.
- THIS STRUCTURE IS DESIGNED FOR SPANS UP TO 150m WITH MAX. A-FRAME HEIGHT = 5m IN AREAS NOT SUBJECT TO HEAVY ICE OR SNOW LOADS OVER 4.5kN/m.
- ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.
- ALL TOLERANCES SHOULD BE CHECKED PRIOR TO SHIPMENT.
- LADDER BRACKET SPACING: 3.0m MAX. AND 0.64m MAX. (5 HOLES) FROM ENDS.
- LD LADDER GATE ASSEMBLY TO BE INSTALLED SO TOP OF GATE IS LEVEL WITH TOP OF PLATFORM RAILING.
- FIELD MODIFY EXISTING PLATFORM RAILING TO CLEARANCE OF 457mm MIN.-475mm MAX. FROM BACK OF RAILING POST TO O/S LADDER SIDE RAIL.

McELHANNEY NOTES

- ORIGINAL DESIGN BY ENVIRONMENT CANADA.
- McELHANNEY CHECKED AND APPROVED A-FRAME STRUCTURE ONLY, INCLUDING THE PLATFORM AND BRACING. ALL OTHER COMPONENTS SUCH AS SHEAVES, LADDER BRACKETS, CAR HOOKS, AND FOOTING PLATES ETC. WERE NOT REVIEWED. FOR DETAILS REFER TO LETTER REPORT DATED APRIL 27, 2000.
- MAXIMUM SNOW DEPTH ON PLATFORMS NOT TO EXCEED 30cm PRIOR TO PERFORMING HYDROMETRIC MEASUREMENTS.
- DESIGN LOAD = 2250 LBS. CONSISTING OF:
 - CABLE CAR - 200 LBS
 - METER REEL - 50 LBS
 - 2 PEOPLE - 400 LBS
 - B.S. OF METER CABLE - 1600 LBS
- 25.4mmØ MAIN CABLE S.F. 3.8
- ENVIRONMENT CANADA MATERIAL LIST NOT VERIFIED.
- FOUNDATIONS NOT VERIFIED.
- SINGLE BOLT CONNECTIONS NOT APPROVED.
- LADDERS ARE DESIGNED TO MEET ANSI14.3-2008 REQUIREMENTS.
- LADDER TO BE OCCUPIED BY MAX. 1 PERSONS AT ANY GIVEN TIME.

File name: S:\Project Files\2531-366 Environment Canada\02-00 A-Frame Ladders\7.0 Drawings\7.1 Working Drawings\01745 LD A-Frames.dwg
 Plotted: March 28, 2019, 1:25:41

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McElhanney

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203-502 Bow Valley Trail
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 PH 403-609-3992

Designed: KEL Checked: Date: MARCH 2010

Drawn: LLP Surveyed:

SCALE : AS SHOWN

APEGA Permit# 08383



29 March 2019
 APPROVED

ENVIRONMENT CANADA
 WATER SURVEY OF CANADA

LIGHT DUTY A-FRAME
 1.5, 3.0, 4.0, 5.0m A-FRAMES

Client Project No

MCSL Project No. 2111-01745-5

Drawing No.

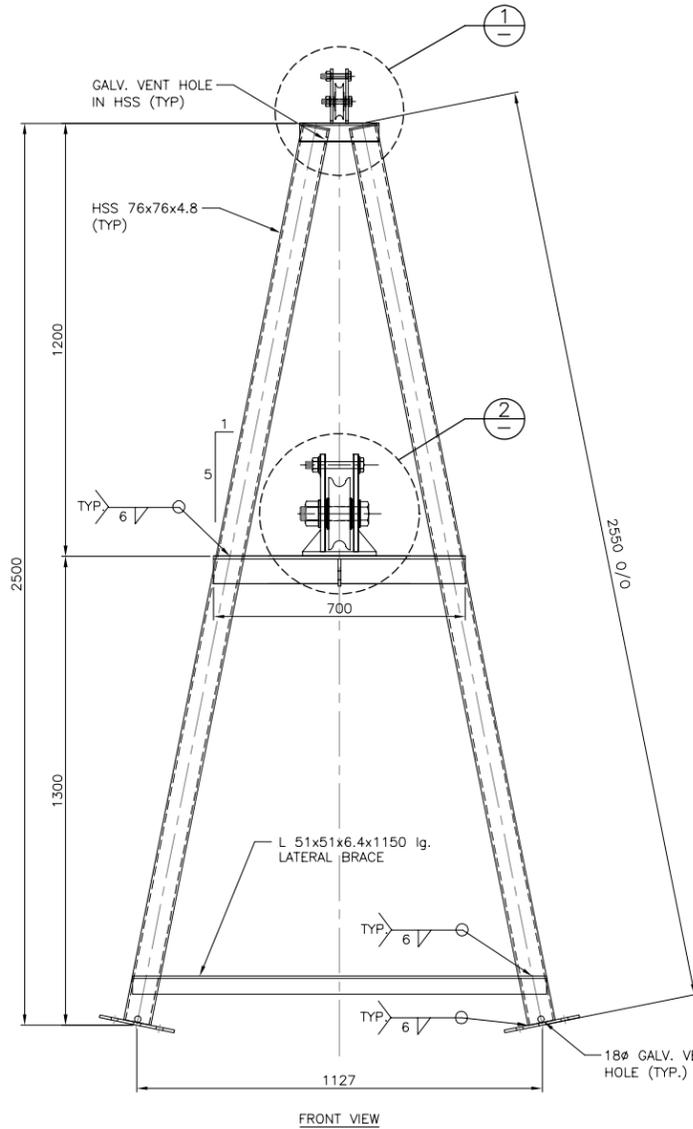
3182-1

Revision 2

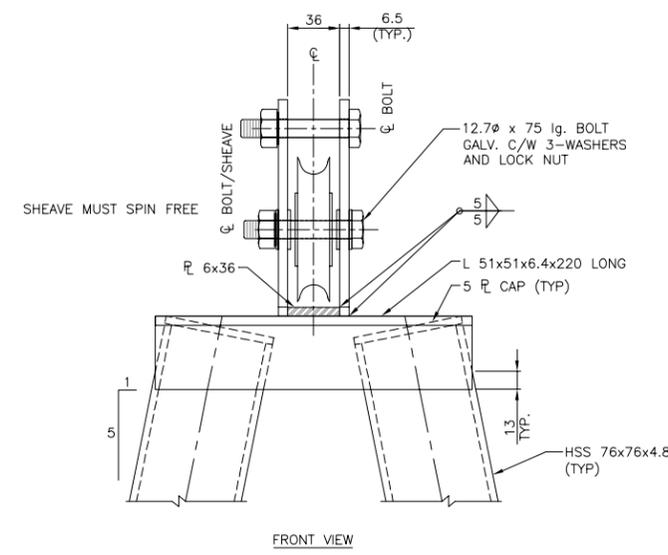
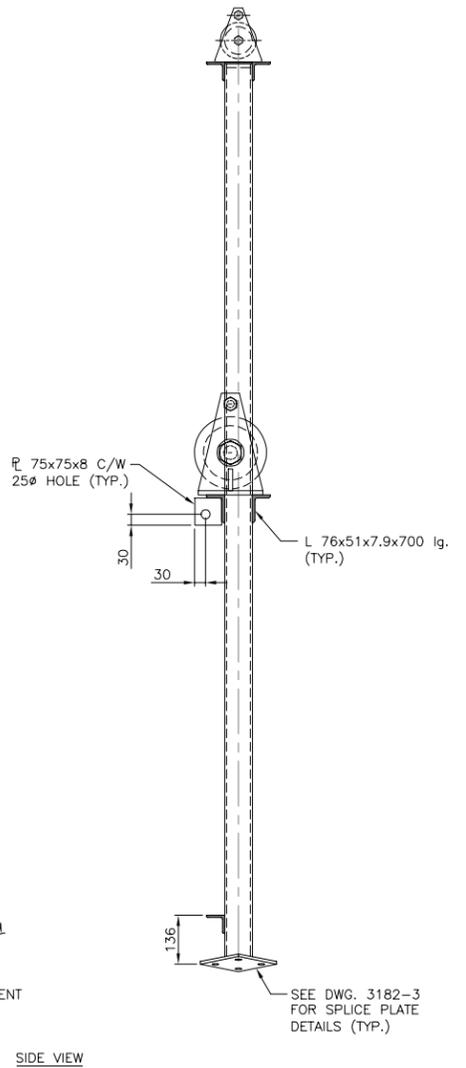
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Plotted Full Size on 22 x 34 Sheet

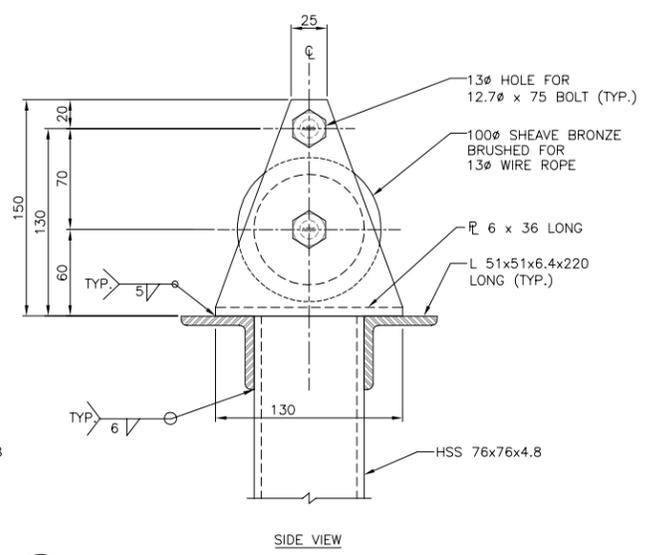
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 Plotted: March 24, 2010, 16:29:55
 Plotted Full Size on 22 x 34 Sheet



1.5 m LIGHT A-FRAME TOP
1:10

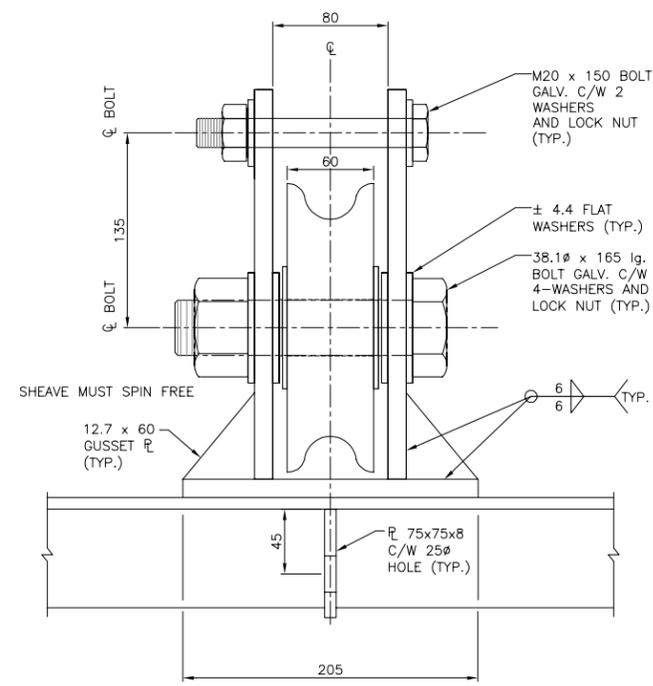


FRONT VIEW

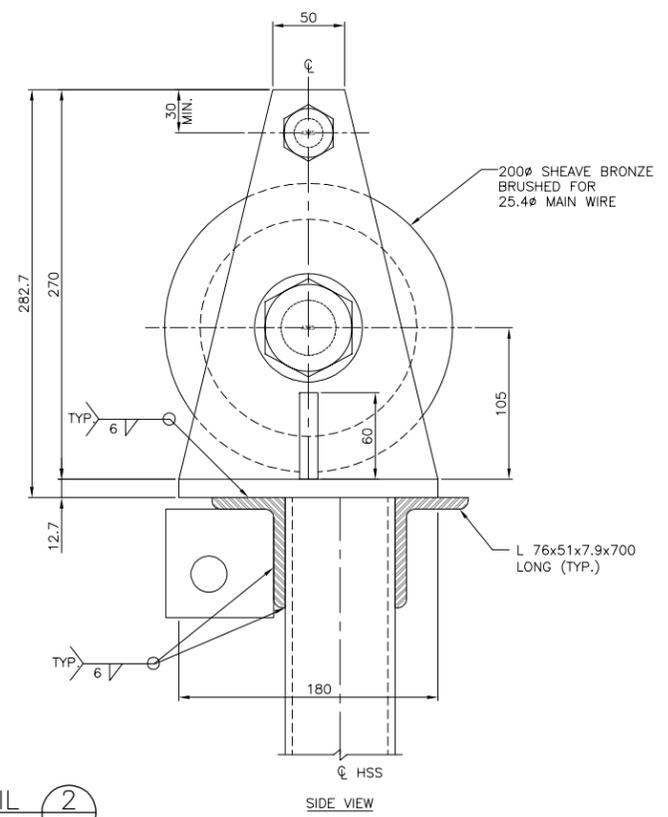


SIDE VIEW

DETAIL 1
1:2.5



FRONT VIEW



SIDE VIEW

DETAIL 2
1:2.5

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 McElhanney Consulting Services Ltd.
 13160-88 Avenue PH (604) 596-0391
 Surrey, B.C. V3M 3K3 FAX (604) 596-8853

Designed: KEL	Checked:	Date: MARCH 2010
Drawn: LLP	Surveyed:	

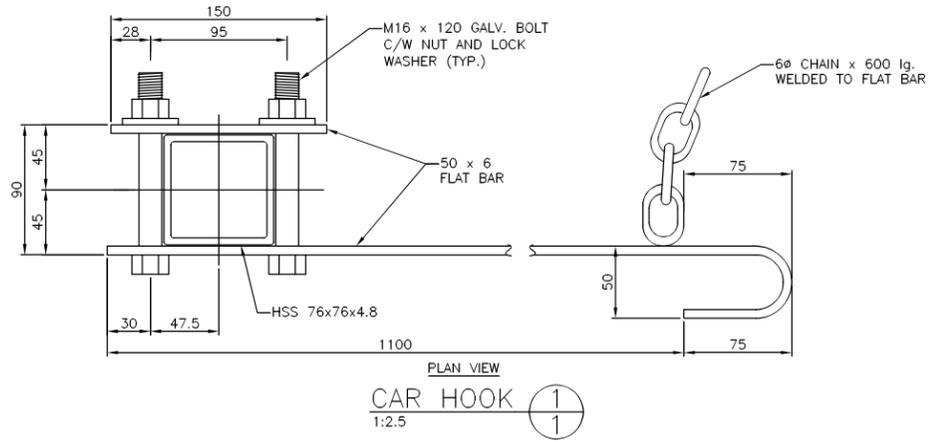
ENVIRONMENT CANADA
 WATER SURVEY OF CANADA
LIGHT DUTY A-FRAME TOP
 DETAILS

Client Project No.	
MCSL Project No.	2111-01745-5
Drawing No.	3182-2
Revision	

Approved Sealed

Destroy all prints bearing previous number

Filename: S:\Project Files\251-966 Environment Canada\02-00 A-Frame Ladders\7.0 Drawings\7.1 Working Drawings\Existing Drawings\01745 LD A-frames.dwg
 Plotted: March 22, 2019, 14:43:32



MOVED LADDER DETAILS TO 3136-11



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 203-502 Bow Valley Trail
 Canmore, AB T1W 1N9
 PH 403-609-3992

Designed: KEL	Checked:	Date: MARCH 2010
Drawn: LLP	Surveyed:	



ENVIRONMENT CANADA
 WATER SURVEY OF CANADA

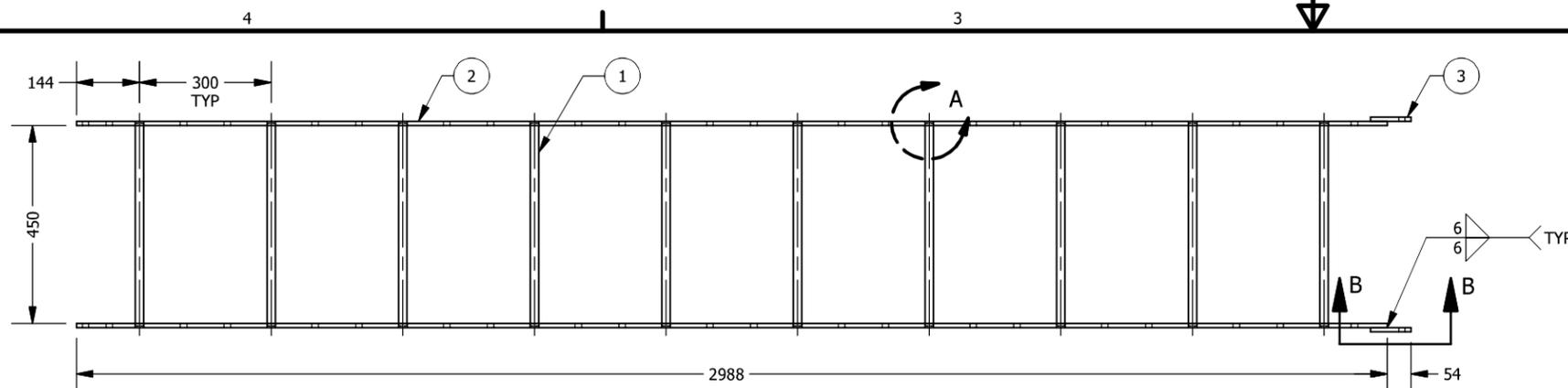
**LIGHT DUTY A-FRAME
 LADDER DETAILS**

Client Project No

MCSL Project No. 2111-01745-5

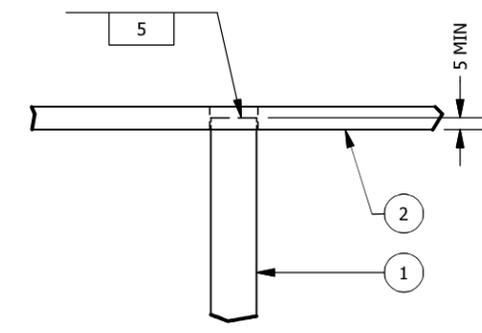
Drawing No.
3182-5

Revision 1



ITEM	QTY	DESCRIPTION	SIZE	LENGTH	MATERIAL	FINISH	DWG#
1	10	RUNG	ROUND BAR - Ø3/4"	460	CSA G40.21 350W	GALVANIZED	
2	2	SIDE RAIL	FLATBAR - 2 1/2" x 3/8"	2988	CSA G40.21 300W	GALVANIZED	
3	2	LADDER SPLICE PLATE	FLATBAR - 2 1/2" x 3/8"	92	CSA G40.21 300W	GALVANIZED	

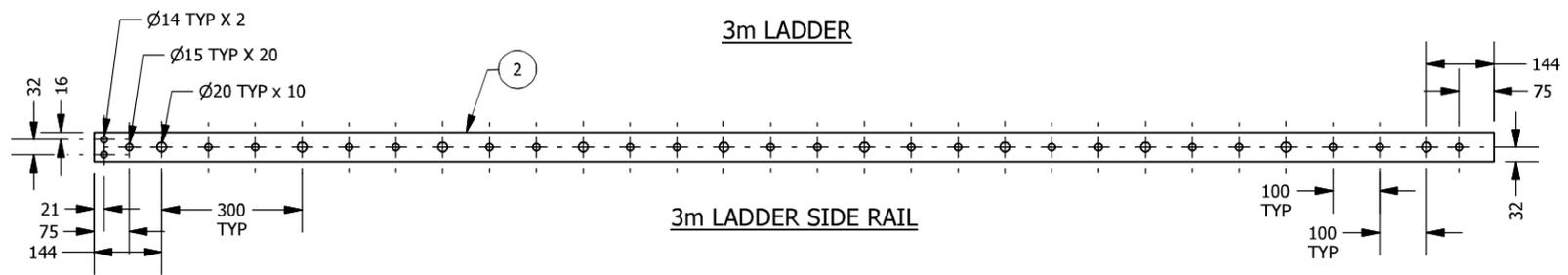
EST. WT. 38.4 kg



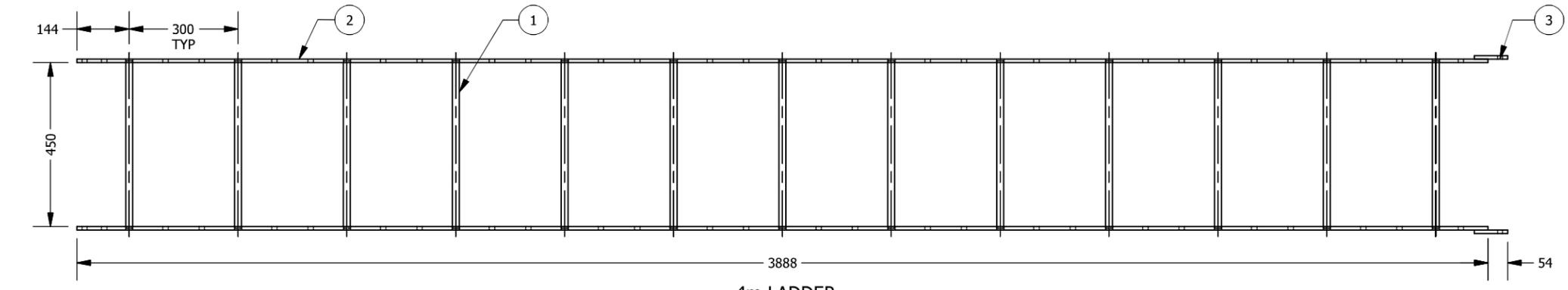
DETAIL A
TYPICAL RUNG DETAIL FOR ALL LADDERS

APEGA Permit# 06383

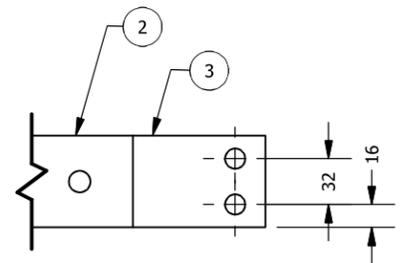
22 March 2019



3m LADDER SIDE RAIL



4m LADDER



VIEW B-B
LADDER SPLICE PLATE DETAIL
ALL LADDERS

ITEM	QTY	DESCRIPTION	SIZE	LENGTH	MATERIAL	FINISH	DWG#
1	13	RUNG	ROUND BAR - Ø3/4"	460	CSA G40.21 350W	GALVANIZED	
2	2	SIDE RAIL	FLATBAR - 2 1/2" x 3/8"	3888	CSA G40.21 300W	GALVANIZED	
3	2	LADDER SPLICE PLATE	FLATBAR - 2 1/2" x 3/8"	92	CSA G40.21 300W	GALVANIZED	

EST. W.T. 49.8 kg

- GENERAL NOTES**
- FABRICATE AND ERECT STRUCTURAL STEEL TO CAN/CSA S16 LIMIT STATES DESIGN OF STEEL STRUCTURES.
 - WELDING TO CONFORM TO CSA W-59 BY FABRICATORS CERTIFIED BY CANADIAN WELDING BUREAU (CWB) TO THE REQUIREMENTS OF CSA W47.1 DIVISION 1 OR 2.1. WELDS SHALL BE MADE WITH ELECTRODES AND FILLER MATERIAL RATED E480XX (E70XX) OR BETTER, UNLESS NOTED OTHERWISE.
 - ALL MATERIALS USED IN FABRICATION SHALL BE NEW, ACCOMPANIED BY MILL CERTIFICATES.
 - ALL EDGES SHOULD BE SMOOTH AND FREE FROM BURRS.
 - COMPLETE ASSEMBLIES SHALL BE HOT DIPPED GALVANIZED AS PER ASTM A123/A123M.

REV	DATE	DESCRIPTION
0	03/07/19	ISSUED FOR CONSTRUCTION

TOLERANCES & SURFACE FINISH - UNLESS OTHERWISE NOTED

FABRICATION	MACHINING	SURFACE FINISH
0 TO 600 ±1	X ±0.5	Ra = 3.2
>600 ±3	X,X ±0.1	
	X,XX ±0.01	

ALL DIMENSIONS IN mm UNLESS OTHERWISE NOTED.
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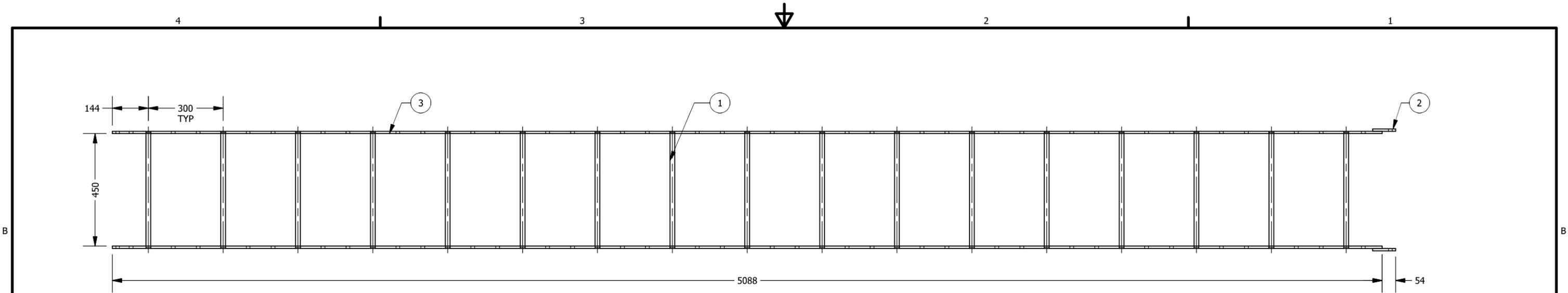
ENVIRONMENT CANADA
WATER SURVEY OF CANADA

3m & 4m LADDER ASSEMBLIES

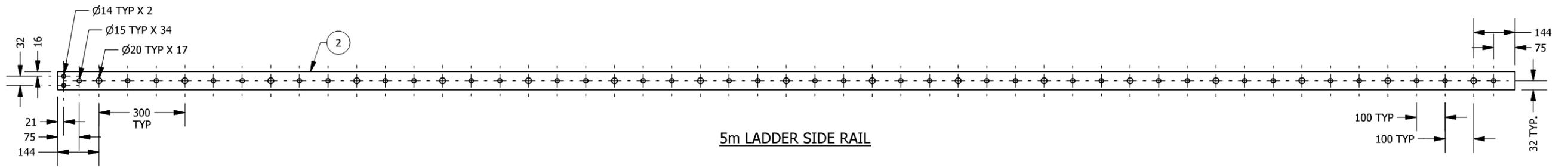
DRAWING #
3136-11

PROJECT #
2531-36602

REV
0



5m LADDER

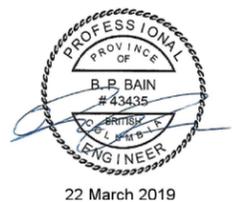


5m LADDER SIDE RAIL

5m LADDER BILL OF MATERIALS							
ITEM	QTY	DESCRIPTION	SIZE	LENGTH	MATERIAL	FINISH	DWG#
1	17	RUNG	ROUND BAR - Ø3/4"	460	CSA G40.21 350W	GALVANIZED	
2	2	LADDER SPLICE PLATE	FLATBAR - 2 1/2" x 3/8"	92	CSA G40.21 300W	GALVANIZED	
3	2	SIDE RAIL	FLATBAR - 2 1/2" x 3/8"	5088	CSA G40.21 300W	GALVANIZED	

EST. W.T. 64.9 kg

APEGA Permit# 06383



GENERAL NOTES

- FABRICATE AND ERECT STRUCTURAL STEEL TO CAN/CSA S16 LIMIT STATES DESIGN OF STEEL STRUCTURES.
- WELDING TO CONFORM TO CSA W-59 BY FABRICATORS CERTIFIED BY CANADIAN WELDING BUREAU (CWB) TO THE REQUIREMENTS OF CSA W47.1 DIVISION 1 OR 2.1. WELDS SHALL BE MADE WITH ELECTRODES AND FILLER MATERIAL RATED E480XX (E70XX) OR BETTER, UNLESS NOTED OTHERWISE.
- ALL MATERIALS USED IN FABRICATION SHALL BE NEW, ACCOMPANIED BY MILL CERTIFICATES.
- ALL EDGES SHOULD BE SMOOTH AND FREE FROM BURRS.
- COMPLETE ASSEMBLIES SHALL BE HOT DIPPED GALVANIZED AS PER ASTM A123/A123M.

REV	DATE	DESCRIPTION
0	03/07/19	ISSUED FOR CONSTRUCTION

TOLERANCES & SURFACE FINISH - UNLESS OTHERWISE NOTED

FABRICATION	MACHINING	SURFACE FINISH
0 TO 600 ±1	X ±0.5	Ra = 3.2
>600 ±3	X,X ±0.1	
	X,XX ±0.01	

ALL DIMENSIONS IN mm UNLESS OTHERWISE NOTED.
DO NOT SCALE DRAWING

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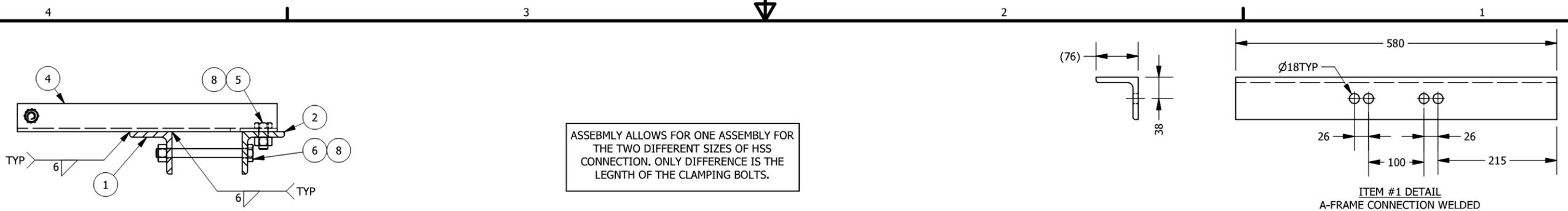


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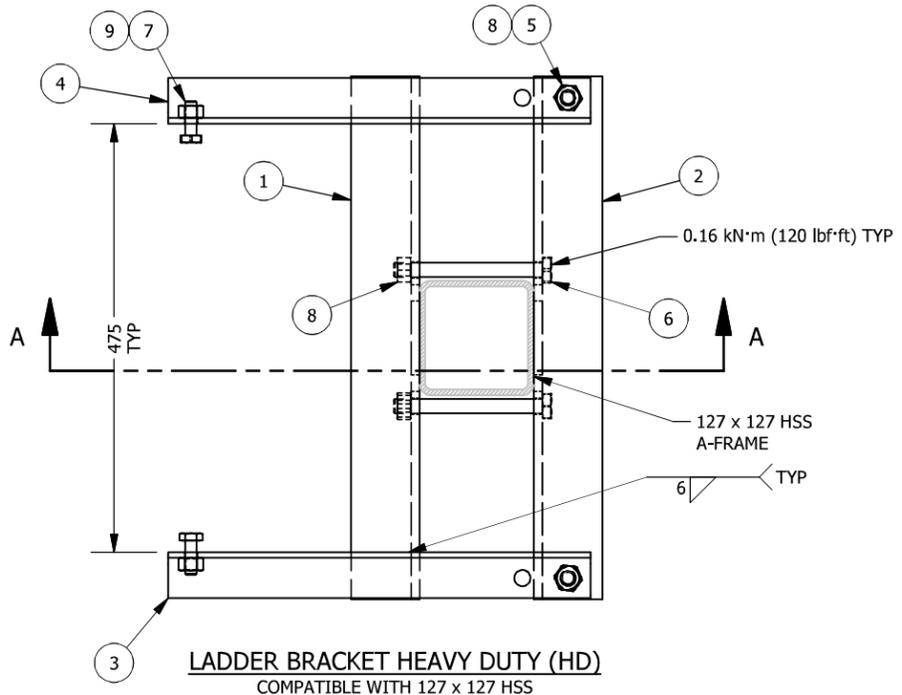
ENVIRONMENT CANADA
WATER SURVEY OF CANADA

5m LADDER ASSEMBLY

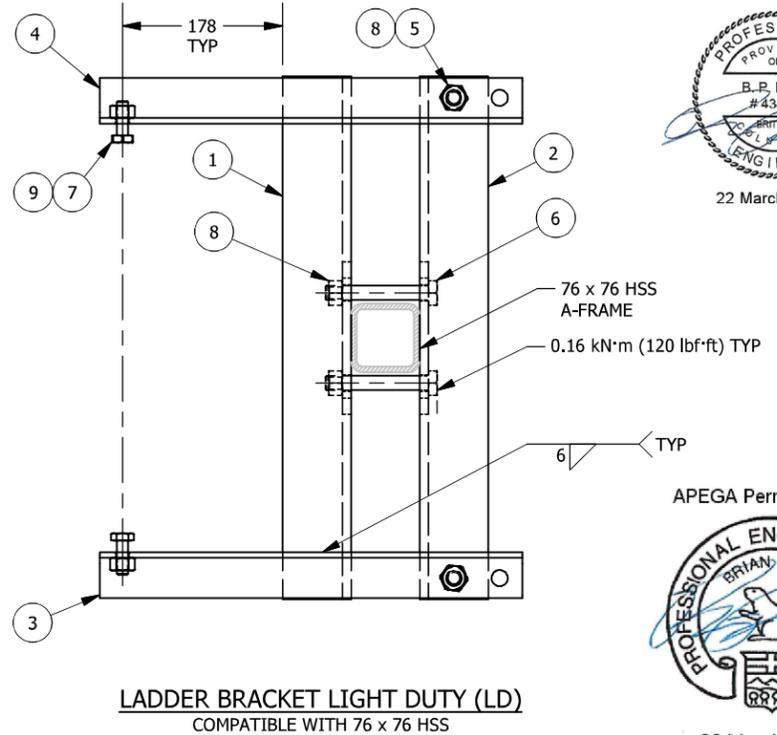
DRAWING #	
3136-12	
PROJECT #	REV
2531-36602	0



SECTION A-A
A-FRAME HSS OMITTED FOR CLARITY

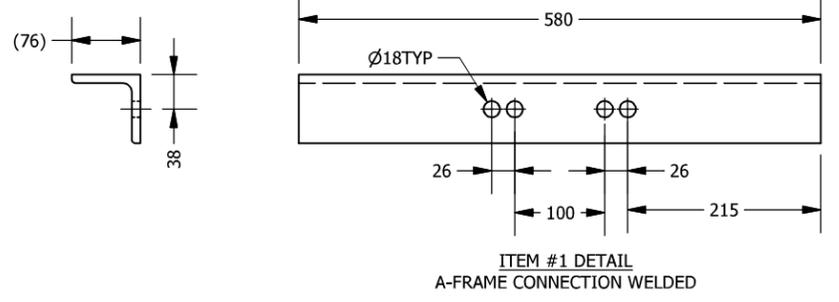


LADDER BRACKET HEAVY DUTY (HD)
COMPATIBLE WITH 127 x 127 HSS

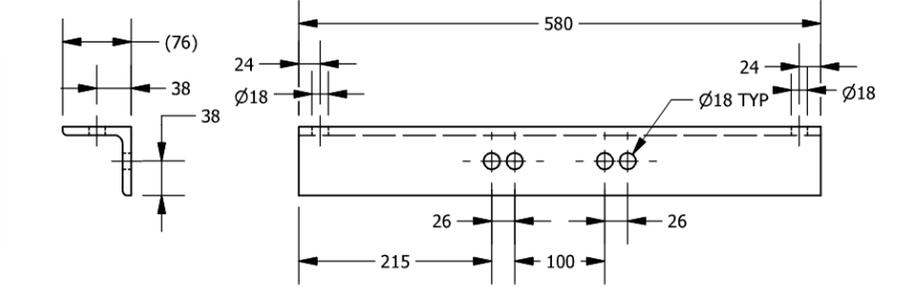


LADDER BRACKET LIGHT DUTY (LD)
COMPATIBLE WITH 76 x 76 HSS

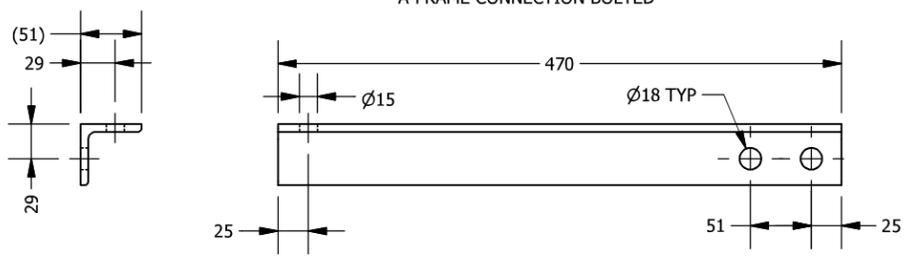
ASSEMBLY ALLOWS FOR ONE ASSEMBLY FOR THE TWO DIFFERENT SIZES OF HSS CONNECTION. ONLY DIFFERENCE IS THE LENGTH OF THE CLAMPING BOLTS.



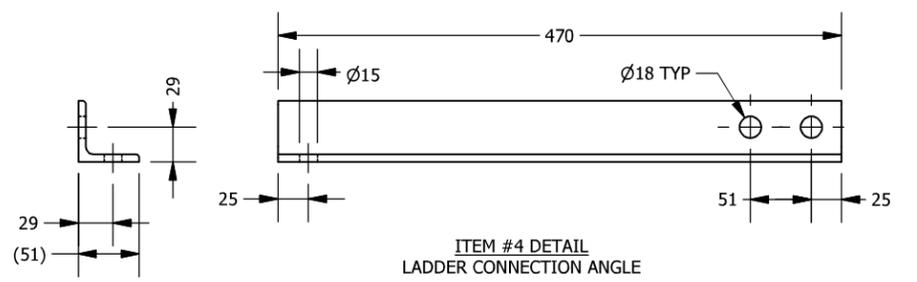
ITEM #1 DETAIL
A-FRAME CONNECTION WELDED



ITEM #2 DETAIL
A-FRAME CONNECTION BOLTED



ITEM #3 DETAIL
LADDER CONNECTION ANGLE



ITEM #4 DETAIL
LADDER CONNECTION ANGLE

HD LADDER BRACKET BILL OF MATERIALS							
ITEM	QTY	DESCRIPTION	SIZE	LENGTH	MATERIAL	FINISH	DWG#
1	1	A-FRAME WELDED	ANGLE - 3" x 3" x 3/8"	580	CSA G40.21 350W	GALVANIZED	
2	1	A-FRAME BOLTED	ANGLE - 3" x 3" x 3/8"	580	CSA G40.21 350W	GALVANIZED	
3	1	LADDER MOUNT ANGLE LEFT	ANGLE - 2" x 2" x 1/4"	470	CSA G40.21 350W	GALVANIZED	
4	1	LADDER MOUNT ANGLE RIGHT	ANGLE - 2" x 2" x 1/4"	470	CSA G40.21 350W	GALVANIZED	
5	2	HEX BOLT	5/8" - 11	1-1/2"	ASTM A325M	GALVANIZED	
6	2	HEX BOLT	5/8" - 11	6-1/2"	ASTM A325M	GALVANIZED	
7	2	HEX BOLT	1/2" - 13	1-1/2"	ASTM A325M	GALVANIZED	
8	4	HEX NUT	5/8" - 11		ASTM A325M	GALVANIZED	
9	2	HEX NUT	1/2" - 13		ASTM A325M	GALVANIZED	

EST. W.T. 18.0 kg

LD LADDER BRACKET BILL OF MATERIALS							
ITEM	QTY	DESCRIPTION	SIZE	LENGTH	MATERIAL	FINISH	DWG#
1	1	A-FRAME WELDED	ANGLE - 3" x 3" x 3/8"	580	CSA G40.21 350W	GALVANIZED	
2	1	A-FRAME BOLTED	ANGLE - 3" x 3" x 3/8"	580	CSA G40.21 350W	GALVANIZED	
3	1	LADDER MOUNT ANGLE LEFT	ANGLE - 2" x 2" x 1/4"	470	CSA G40.21 350W	GALVANIZED	
4	1	LADDER MOUNT ANGLE RIGHT	ANGLE - 2" x 2" x 1/4"	470	CSA G40.21 350W	GALVANIZED	
5	2	HEX BOLT	5/8" - 11	1-1/2"	ASTM A325M	GALVANIZED	
6	2	HEX BOLT	5/8" - 11	4-1/2"	ASTM A325M	GALVANIZED	
7	2	HEX BOLT	1/2" - 13	1-1/2"	ASTM A325M	GALVANIZED	
8	4	HEX NUT	5/8" - 11		ASTM A325M	GALVANIZED	
9	2	HEX NUT	1/2" - 13		ASTM A325M	GALVANIZED	

EST. W.T. 17.8 kg

GENERAL NOTES

- FABRICATE AND ERECT STRUCTURAL STEEL TO CAN/CSA S16 LIMIT STATES DESIGN OF STEEL STRUCTURES.
- WELDING TO CONFORM TO CSA W-59 BY FABRICATORS CERTIFIED BY CANADIAN WELDING BUREAU (CWB) TO THE REQUIREMENTS OF CSA W47.1 DIVISION 1 OR 2.1. WELDS SHALL BE MADE WITH ELECTRODES AND FILLER MATERIAL RATED E480XX (E70XX) OR BETTER, UNLESS NOTED OTHERWISE.
- ALL MATERIALS USED IN FABRICATION SHALL BE NEW, ACCOMPANIED BY MILL CERTIFICATES.
- ALL EDGES SHOULD BE SMOOTH AND FREE FROM BURRS.
- COMPLETE ASSEMBLIES SHALL BE HOT DIPPED GALVANIZED AS PER ASTM A123/A123M.

REV	DATE	DESCRIPTION
0	03/07/19	ISSUED FOR CONSTRUCTION

TOLERANCES & SURFACE FINISH - UNLESS OTHERWISE NOTED

FABRICATION	MACHINING	SURFACE FINISH
0 TO 600 ±1	X ±0.5	Ra = 3.2
>600 ±3	X,X ±0.1	
	X,XX ±0.01	

ALL DIMENSIONS IN mm UNLESS OTHERWISE NOTED.
DO NOT SCALE DRAWING

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ENVIRONMENT CANADA
WATER SURVEY OF CANADA

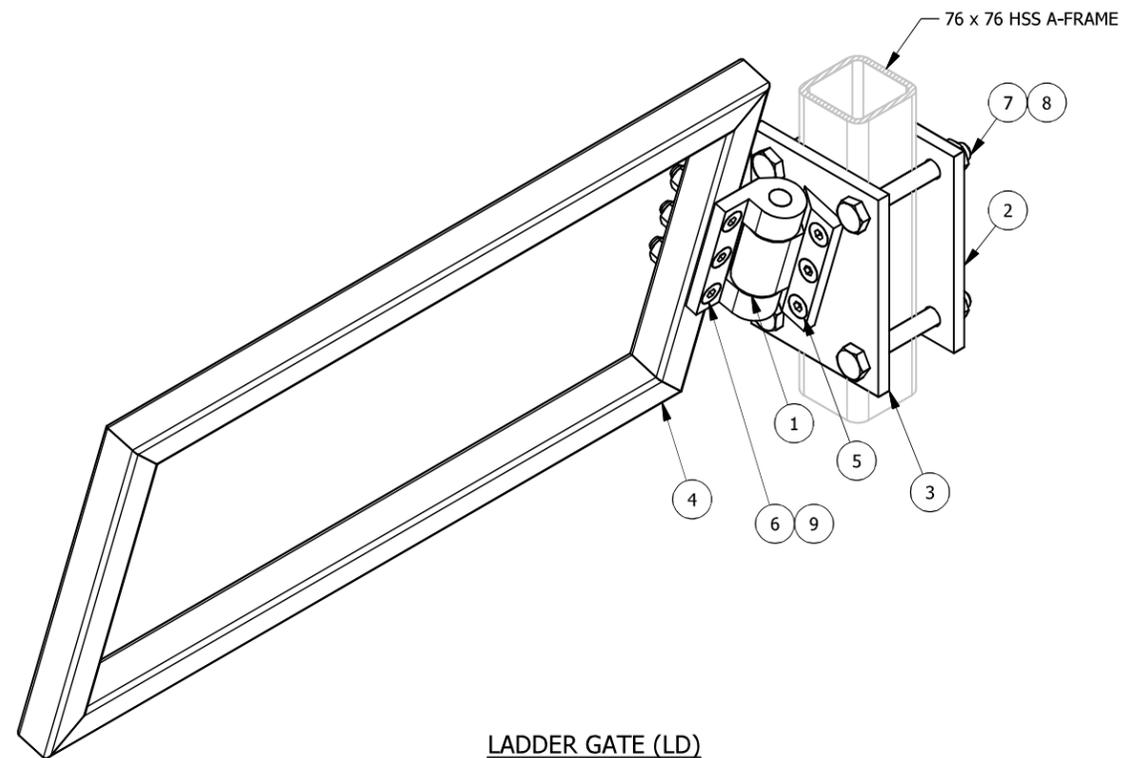
LADDER BRACKETS

DRAWING #

3136-13

PROJECT #
2531-36602

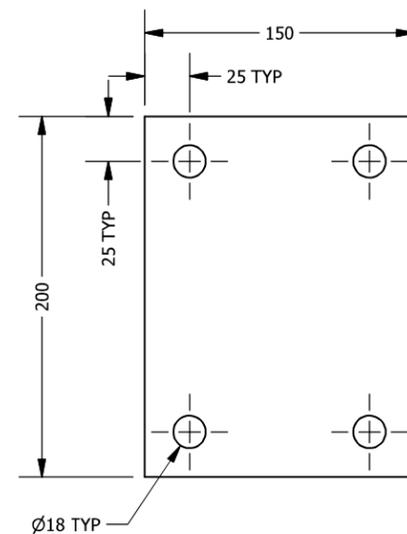
REV
0



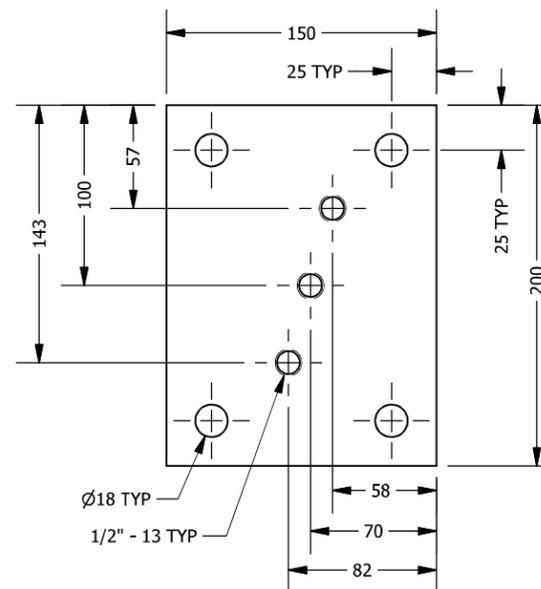
LADDER GATE (LD)
COMPATIBLE WITH
76 x 76 HSS

EST. W.T. 9.0 kg

LADDER GATE (LD) BILL OF MATERIALS							
ITEM	QTY	DESCRIPTION	SIZE	LENGTH	MATERIAL	FINISH	DWG#
1	1	HINGE - MCMASTER-CARR 1484A31			STEEL		
2	1	LD BACKING PLATE	PLATE - 1/2"	200 x 150	CSA G40.21 300W	GALVANIZED	
3	1	HINGE MOUNT LD	PLATE - 1/2"	200 x 150	CSA G40.21 300W	GALVANIZED	
4	1	GATE			CSA G40.21 350W	GALVANIZED	3136-17
5	3	HEX SOCKET COUNTERSUNK BOLT	1/2" - 13	1"	ASTM F835	BLACK OXIDE	
6	3	HEX SOCKET COUNTERSUNK BOLT	1/2" - 13	2-3/4"	ASTM F835	BLACK OXIDE	
7	4	HEX BOLT	5/8" - 11	5"	ASTM A325M	GALVANIZED	
8	4	HEX NUT	5/8" - 11		ASTM A325M	GALVANIZED	
9	3	HEX NUT	1/2" - 13		ASTM A325M	GALVANIZED	



ITEM #2 DETAIL
LD BACKING PLATE



ITEM #3 DETAIL
HINGE MOUNT LD

GENERAL NOTES

1. FABRICATE AND ERECT STRUCTURAL STEEL TO CAN/CSA S16 LIMIT STATES DESIGN OF STEEL STRUCTURES.
2. ALL MATERIALS USED IN FABRICATION SHALL BE NEW, ACCOMPANIED BY MILL CERTIFICATES.
3. ALL EDGES SHOULD BE SMOOTH AND FREE FROM BURRS.
4. COMPLETE ASSEMBLIES SHALL BE HOT DIPPED GALVANIZED AS PER ASTM A123/A123M.



22 March 2019

APEGA Permit# 06383



22 March 2019

REV	DATE	DESCRIPTION
0	03/07/19	ISSUED FOR CONSTRUCTION

TOLERANCES & SURFACE FINISH - UNLESS OTHERWISE NOTED

FABRICATION	MACHINING	SURFACE FINISH
0 TO 600 ±1	X ±0.5	Ra = 3.2
>600 ±3	X,X ±0.1	
	X,XX ±0.01	

ALL DIMENSIONS IN mm UNLESS OTHERWISE NOTED.
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McElhanney

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ENVIRONMENT CANADA
WATER SURVEY OF CANADA

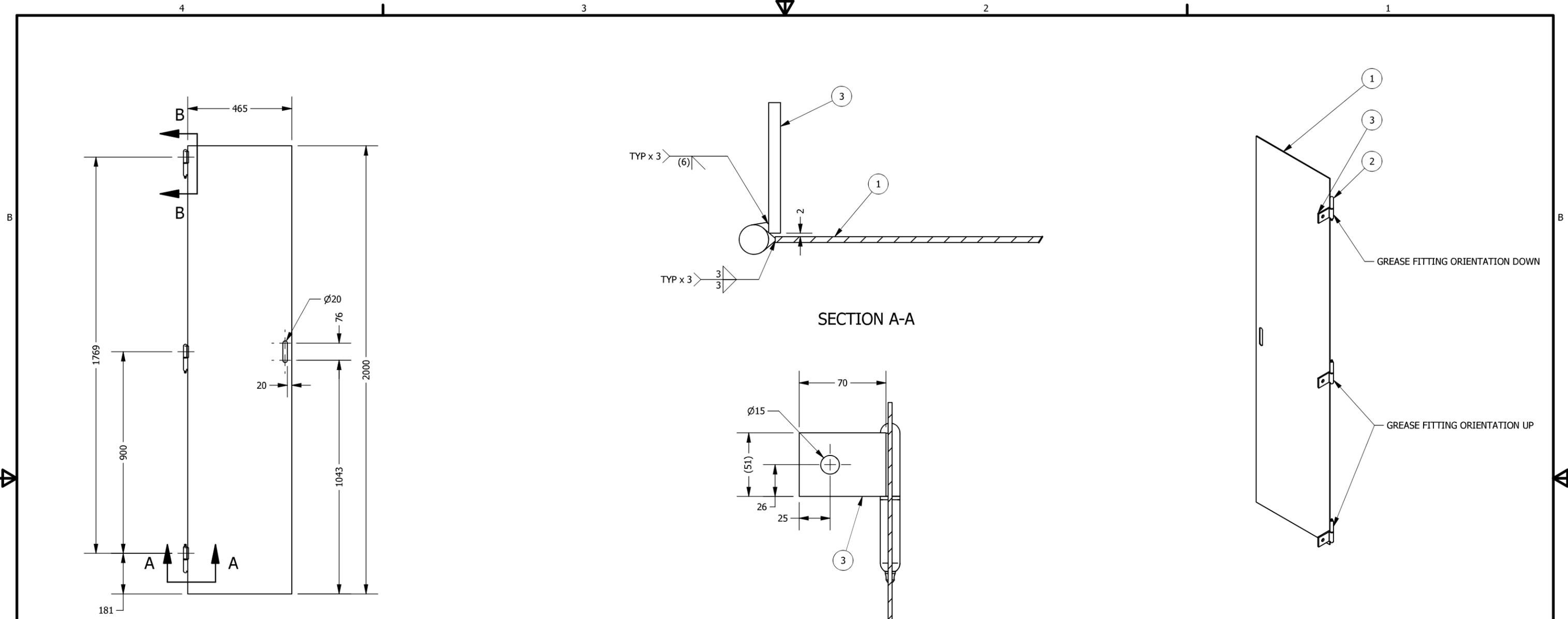
LADDER GATE (LD)

DRAWING #

3136-18

PROJECT #
2531-36602

REV
0



- GENERAL NOTES**
1. FABRICATE AND ERECT STRUCTURAL STEEL TO CAN/CSA S16 DESIGN OF STEEL STRUCTURES.
 2. ALL MATERIALS USED IN FABRICATION SHALL BE NEW, ACCOMPANIED BY MILL CERTIFICATES.
 3. ALL EDGES SHOULD BE SMOOTH AND FREE OF BURRS.
 4. WELDING TO CONFORM TO CSA W-59 BY FABRICATORS CERTIFIED BY CANADIAN WELDING BUREAU (CWB) TO THE REQUIREMENTS OF CSA W47.1 DIVISION 1 OR 2.1. WELDS SHALL BE MADE WITH ELECTRODES AND FILLER MATERIAL RATED E480XX (E70XX) OR BETTER, UNLESS NOTED OTHERWISE.
 5. DESIGNED TO FIT STANDARD A-FRAME LADDERS.
 6. HINGE GREASE NIPPLE TO BE REMOVED AND HOLE AND SHAFT TO BE TAPPED OFF FOR GALVANIZING.

BILL OF MATERIALS						
ITEM	QTY	DESCRIPTION	SIZE	LENGTH	MATERIAL	FINISH
1	1	LADDER SECURITY GUARD PLATE	SHEET - 1/8"	465 x 2000	C1008/1010 HR	GALV
2	3	WELD-ON HINGE W/ GREASE FITTING	2-5/16" X 5/8"		25/64" PIN DIA	LOW CARBON STEEL
3	3	HINGE MOUNT	FLATBAR - 2" x 1/4"thk	70	CSA G40.21 300W	GALV

REV	DATE	DESCRIPTION
0	29/NOV/2019	ISSUED FOR CONSTRUCTION

TOLERANCES & SURFACE FINISH - UNLESS OTHERWISE NOTED

FABRICATION	MACHINING	SURFACE FINISH
0 TO 600 ±1	X ±0.5	Ra = 3.2
>600 ±3	X,X ±0.1	
	X,XX ±0.01	

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McElhanney
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Permit #06383

PROFESSIONAL ENGINEER ALBERTA
BRIAN BAIM
02 December 2019

ENVIROMENT CANADA

LADDER SECURITY GUARD

DRAWING #

3136-19

PROJECT #
2531-36604

REV
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