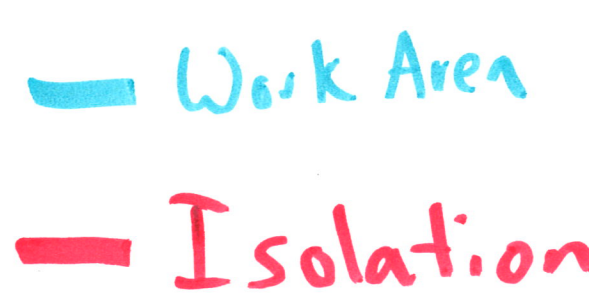


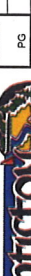
1. WHEREVER POSSIBLE SMALL BORE UTILITY PIPING HAS BEEN ILLUSTRATED ON THIS DRAWING. DUE TO THE SIZE NOT ALL VALVES AND FITTINGS HAVE BEEN SHOWN, REFER TO THE CORRESPONDING PROCESS AND INSTRUMENTATION DIAGRAM FOR DETAILS.

CITY OF PENTICTON AWWTP UPGRADE PENTICTON, B.C.		PROJECT START DATE (M/Y) APRIL 2008	
PROCESS MECHANICAL INFLUENT SCREENS		PROJECT NO. 102949	
GENERAL ARRANGEMENT - CHANNEL LEVEL		FILENAME M2-102.dwg	
		SHEET NO.	
		DRAWING NO. M2-102	



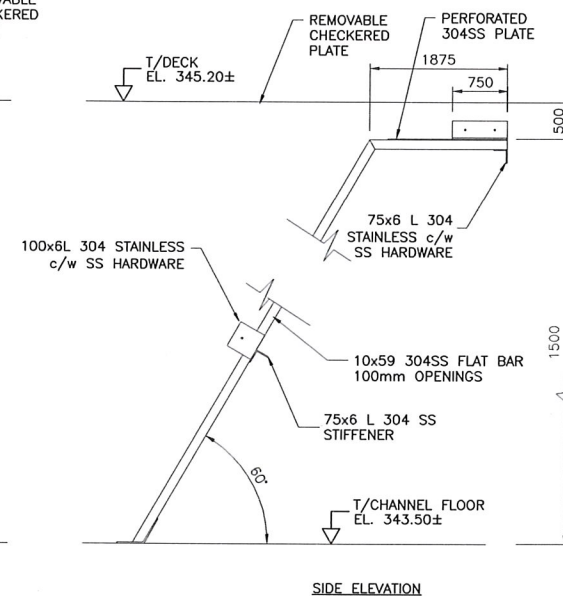
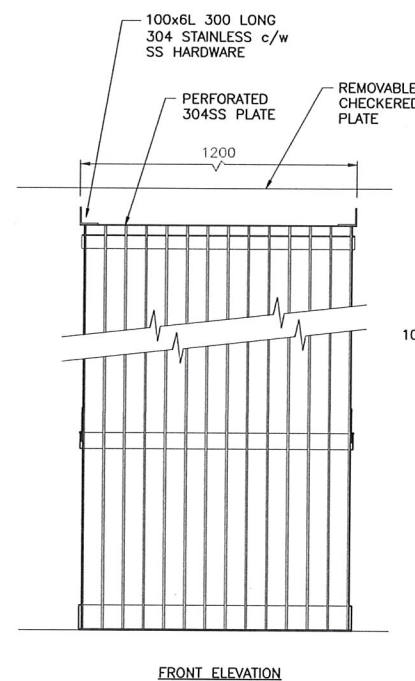
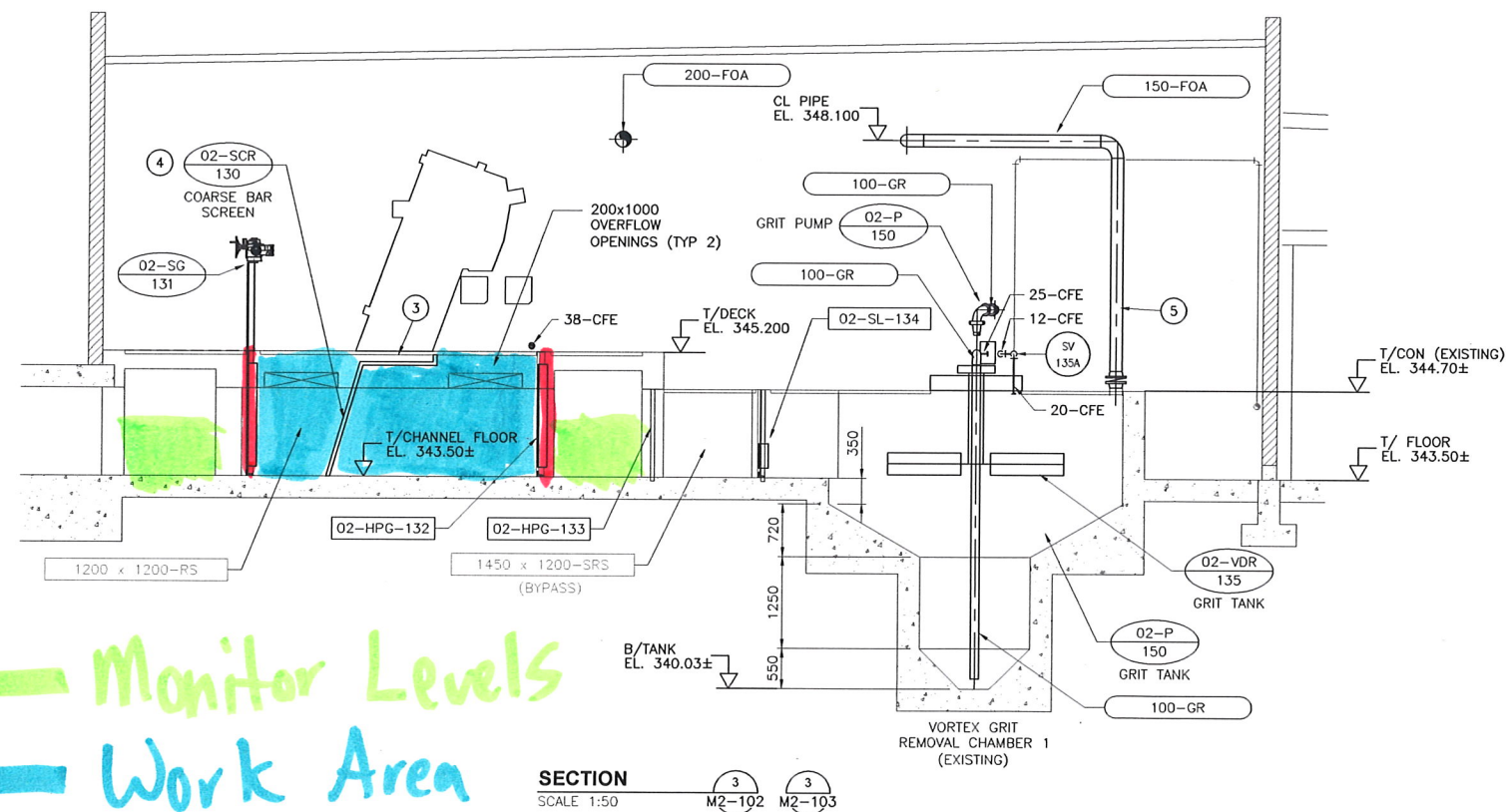
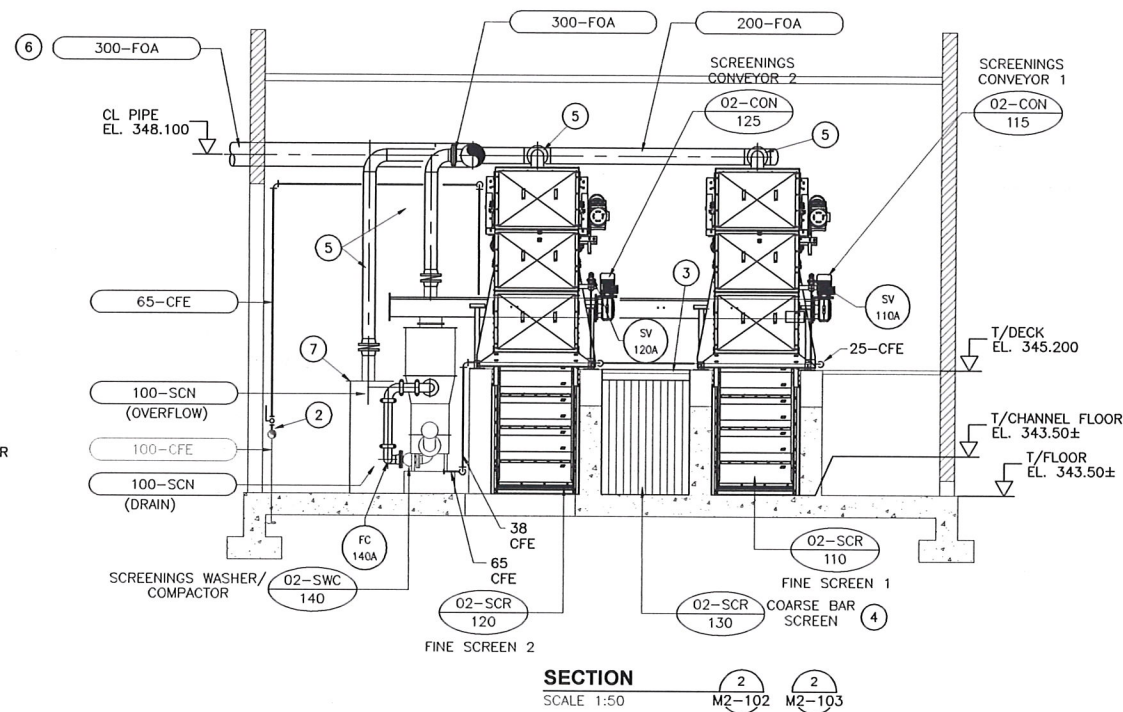
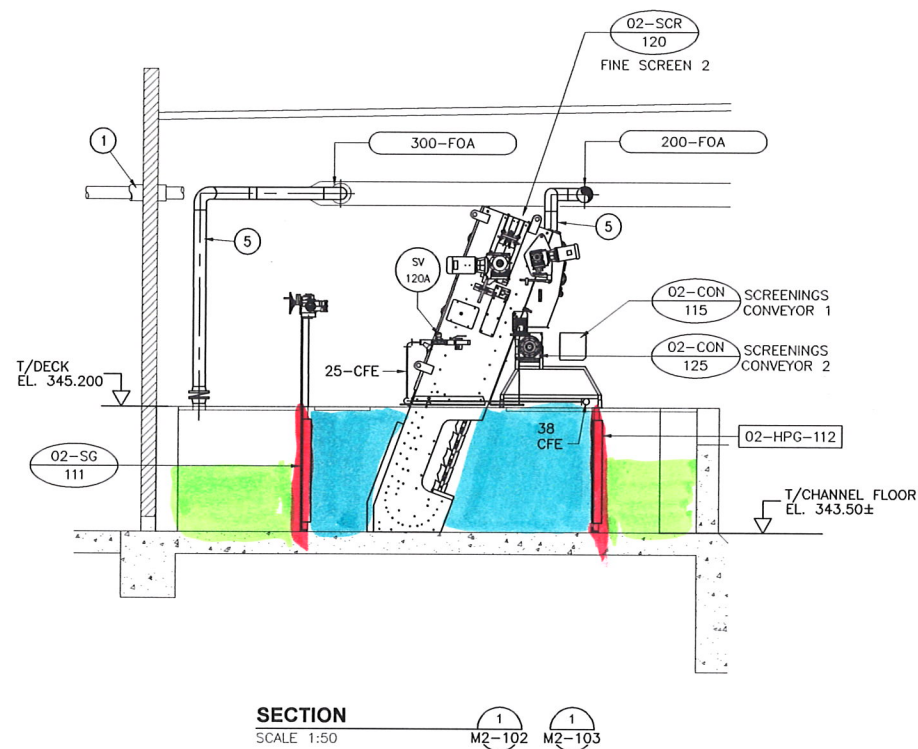
SCALE 1:50

1. WHEREVER POSSIBLE SMALL BORE UTILITY PIPING HAS BEEN ILLUSTRATED ON THIS DRAWING. DUE TO THE SIZE NOT ALL VALVES AND FITTINGS HAVE BEEN SHOWN, REFER TO THE CORRESPONDING PROCESS AND INSTRUMENTATION DIAGRAM FOR DETAILS.
2. INSTALL CHECKERED PLATE OVER CHANNELS AS REMOVABLE SECTIONS LIFTABLE BY AN OPERATOR.

CITY OF PENTICTON AWWTP UPGRADE PENTICTON, B.C. PROCESS MECHANICAL INFLUENT SCREENS GENERAL ARRANGEMENT - MEZZANINE LEVEL PROJECT START DATE (M/Y) APRIL 2008		PREPARED BY: AECOM THE CITY OF Penticton Suite 201, 3275 LAKESHORE ROAD, KELOWNA, BC, CANADA V1W 3S9 250-762-3727		PREPARED FOR: 		DRN BY: KJW DES BY: PG CHK BY: 2 CHK BY: RECORD DRAWING APP BY: 0 APP BY: ISSUED FOR CONSTRUCTION REV DESCRIPTION		2013.08.09 KJW 2009/08/31 PTL 2009/05/25 KJW 2009/05/25 KJW DATE (Y/M/D) CHK	
PROJECT NO. 102949		FILENAME M2-103.dwg		SHEET NO.		DRAWING NO. M2-103			

Plotted By: trillercj
Plot File Date Created: Aug/08/2013 10:58 AM
Layout-Sheet Name: M2-104
Filename: L:\WORK\102000\102949\02A-CAD\WAT\DETAIL DESIGN\6-PROCESS MECH\M2-104.DWG

— Monitor Levels
— Work Area
— Isolation



COARSE BAR SCREEN DETAIL
SCALE: N.T.S.

KEY NOTES

- 25mm INSULATION C/W ALUMINUM JACKET EXPOSED FOA DUCTING, SEAL END WATERTIGHT 150mm FROM INSIDE FACE OF WALL.
- CONNECT 65-CFE TO EXISTING 100mm CFE PIPE, C/W ISOLATION VALVE.
- REMOVABLE CHECKERED PLATE OVER COARSE BAR SCREEN, C/W RECESSED POCKET LIFTING HANDLES.
- COARSE BAR SCREEN, SEE DETAIL A/M2-104.
- 150mm FOA BRANCHES C/W BALANCING VALVE, SEE DRAWING M2-103. ALL FOA AIR DUCTING AND ACCESSORIES (FOA) INSIDE BUILDING TO BE 18 GA 316L STAINLESS STEEL (TYP).
- 300-FOA PIPE TO PRIMARY CLARIFIERS, FOR CONTINUATION SEE DRAWING M12-102.
- SCREENINGS BIN.

GENERAL NOTES

- WHEREVER POSSIBLE SMALL BORE UTILITY PIPING HAS BEEN ILLUSTRATED ON THIS DRAWING. DUE TO THE SIZE NOT ALL VALVES AND FITTINGS HAVE BEEN SHOWN, REFER TO THE CORRESPONDING PROCESS AND INSTRUMENTATION DIAGRAM FOR DETAILS.

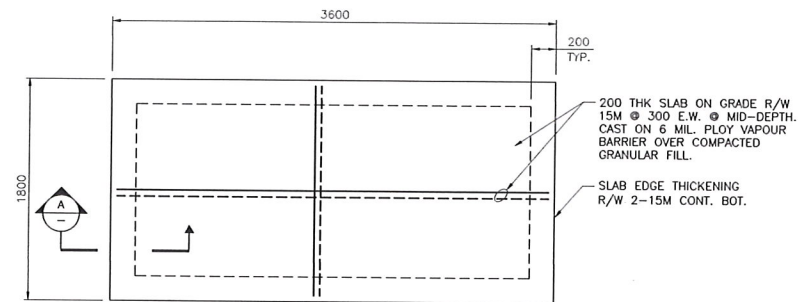
NOTICE:
AS-CONSTRUCTED DIMENSIONS, MEASUREMENTS AND OTHER DETAILS CONTAINED IN THIS RECORD DRAWING HAVE BEEN OBTAINED BY AECOM CANADA LTD. ("AECOM") FROM VARIOUS SOURCES. SUCH INFORMATION REPRESENTS THE BEST INFORMATION AVAILABLE TO AECOM AT THE TIME OF PREPARATION OF THIS RECORD DRAWING. AECOM DOES NOT IN ANY WAY REPRESENT OR WARRANT THAT SUCH INFORMATION IS ACCURATE AND ASSUMES NO RESPONSIBILITY FOR ANY ERRORS OR OMISSIONS CONTAINED THEREIN.

DRN BY:	KJW	DES BY:	PG	CHK BY:	2	RECORD DRAWING	2013/08/09
APP BY:	0	ISSUED FOR TENDER	1	ISSUED FOR CONSTRUCTION	1	ISSUED FOR CONSTRUCTION	2009/08/31
REV	0	DESCRIPTION	0	DESCRIPTION	0	DESCRIPTION	2009/05/25
DATE (YMD)							

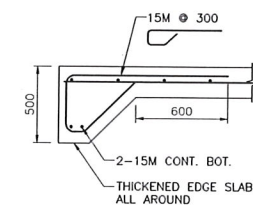
PREPARED FOR:	THE CITY OF Penticton
PREPARED BY:	AECOM
Suite 201, 3275 LAKESHORE ROAD, KELOWNA, BC, CANADA V1W 3S9 250-762-3727	

CITY OF PENTICTON AWWTP UPGRADE PENTICTON, B.C.	PROCESS MECHANICAL INFLUENT SCREENS SECTIONS AND DETAILS
---	--

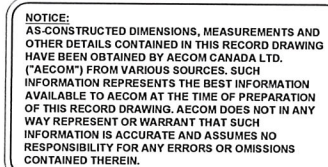
PROJECT START DATE (M/Y)	APRIL 2008
PROJECT NO.	102949
FILENAME	M2-104.dwg
SHEET NO.	
DRAWING NO.	M2-104



ODOUR CONTROL SYSTEM CONCRETE PAD
SCALE 1:25



SECTION
SCALE : 1:20

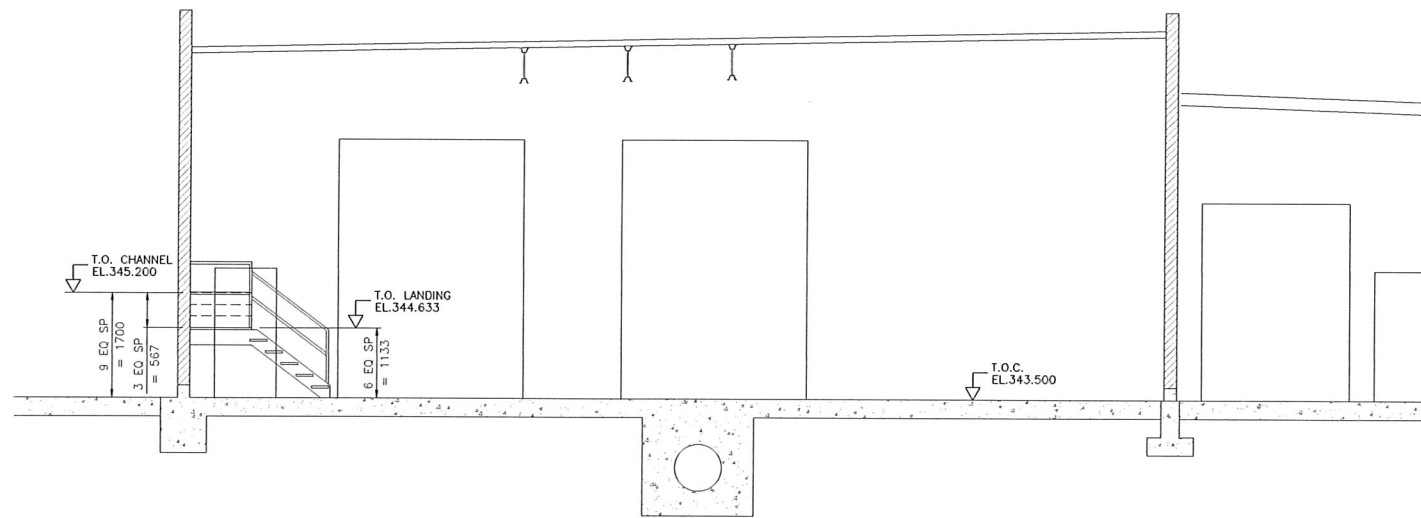


MEZZANINE FLOOR PLAN
SCALE 1:50

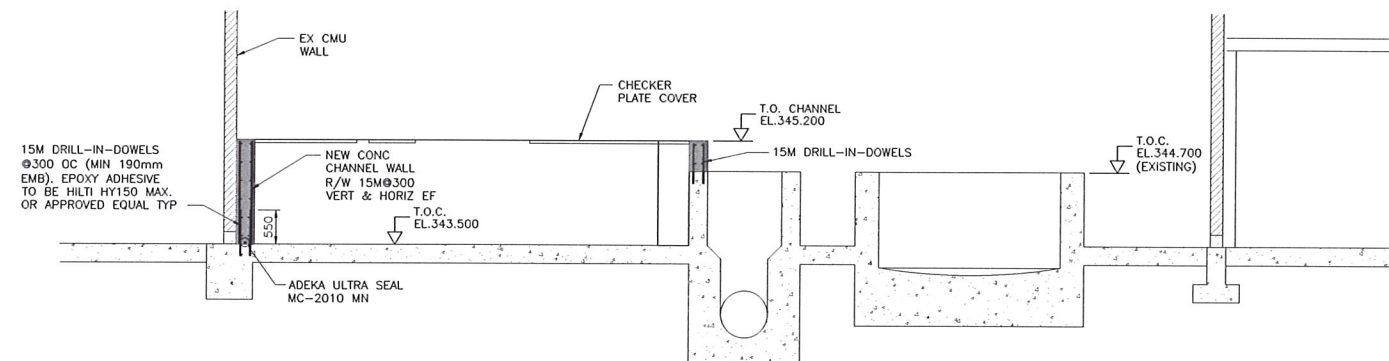
PROJECT START DATE (M/Y) APRIL 2008		PREPARED BY: AECOM		THE CITY OF 		DRAWN BY: CL DES BY: EA CHK BY: HL APP BY: KM		2 RECORD DRAWING 1 ISSUED FOR CONSTRUCTION 0 ISSUED FOR TENDER		CMM PTL DL DRN CHK		20100809 20090431 20080525 DATE (Y/M/D)	
CITY OF PENTICTON AWWTP UPGRADE PENTICTON, B.C.		PROJECT NO. 102949-52-101 (sup)		STRUCTURAL HEADWORK BUILDING CHANNEL AND MEZZ. FLOOR PLAN		FILENAME SHEET NO.		1029-49		REV		DESCRIPTION	
DRAWING NO. S2-101													

Plotted By: millercj
Plot File Date Created: Aug/08/2013 10:45 AM
Layout-Sheet Name: S2-101
Filename: L:\WORK\1022000\102949\02A-CAD\WAT\DETAIL DESIGN\4-STRUCT\102949-S2-101.DWG

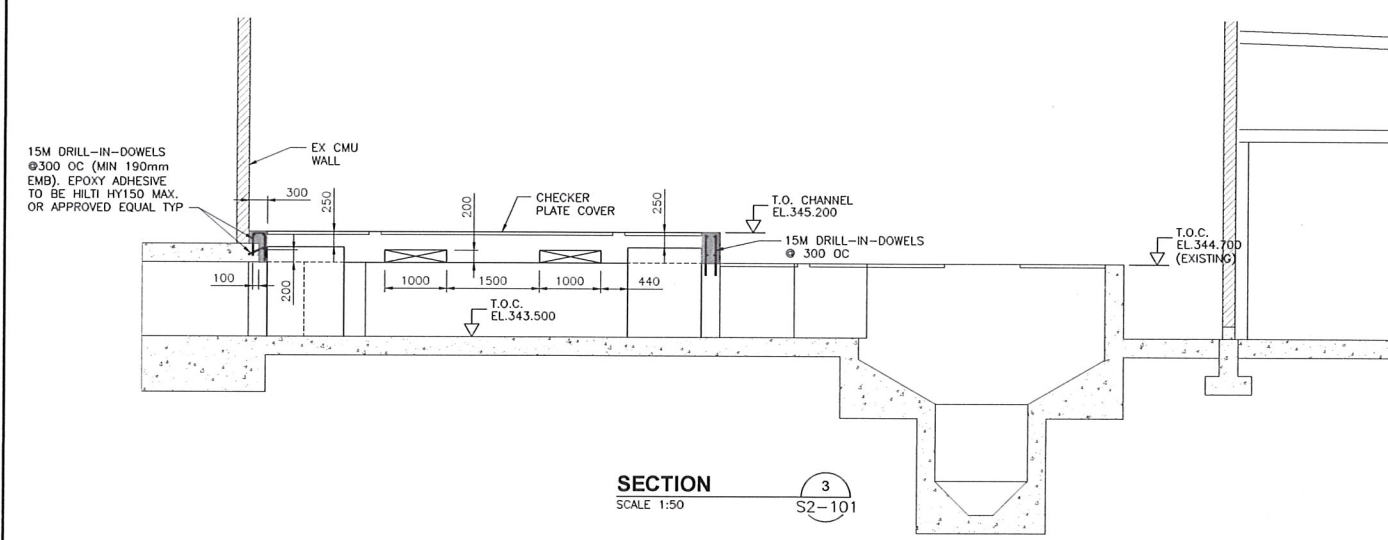
Plotted By: railersj
 Plot File Date Created: Aug/08/2013 10:45 AM
 Layout-Sheet Name: S2-102
 Filename: L:\WORK\102949\02A-CHD-WAT DETAIL DESIGN\4-STRUCT\102949-S2-102.DWG



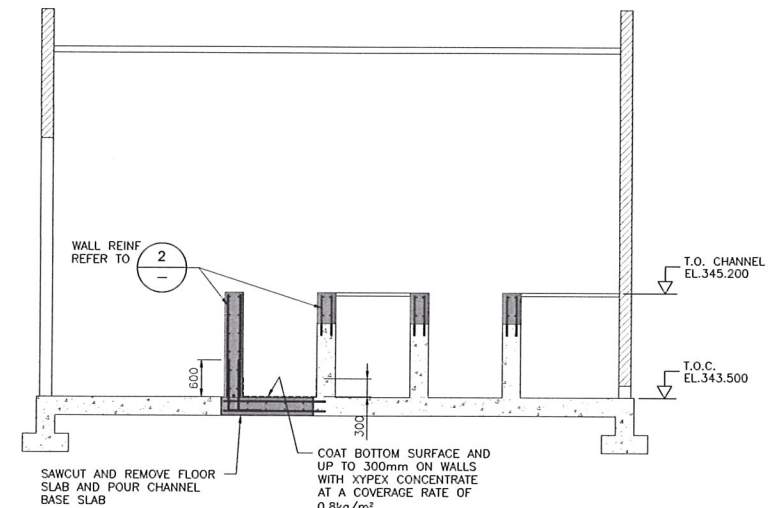
SECTION 1
 SCALE 1:50
 S2-101



SECTION 2
 SCALE 1:50
 S2-101



SECTION 3
 SCALE 1:50
 S2-101



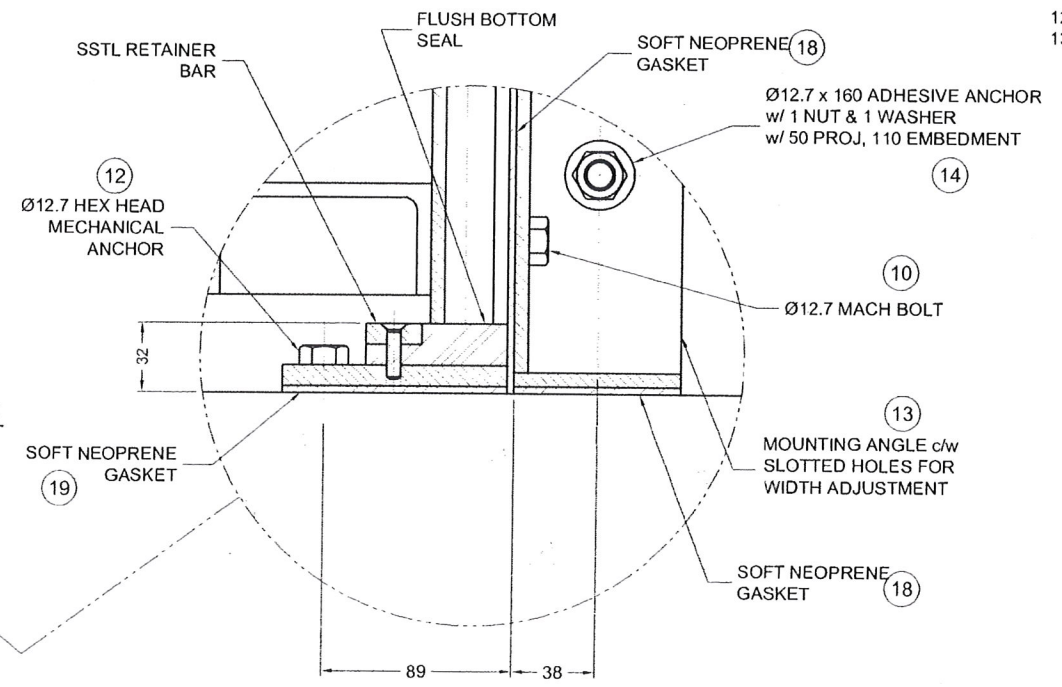
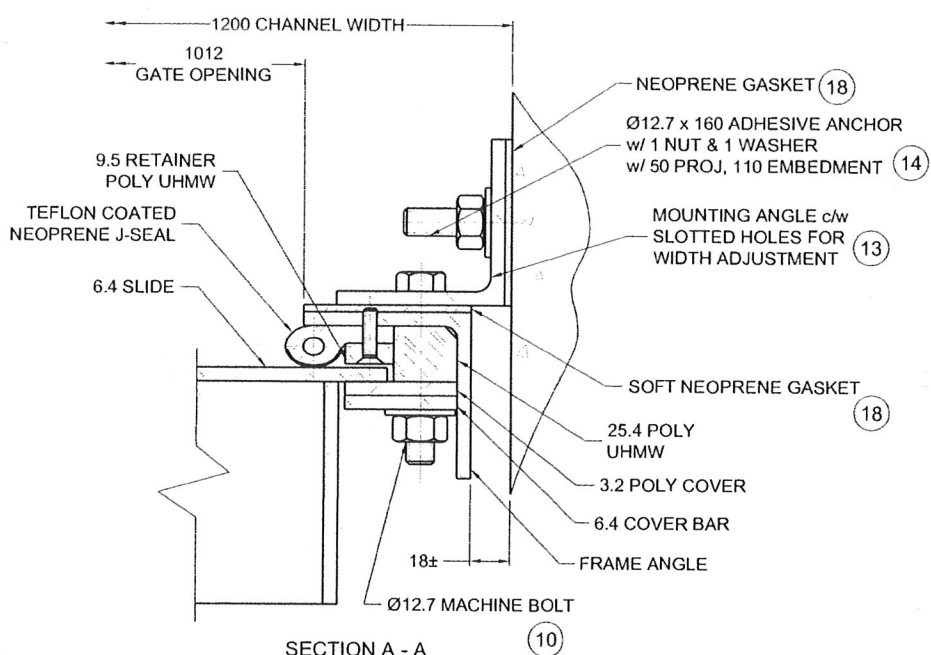
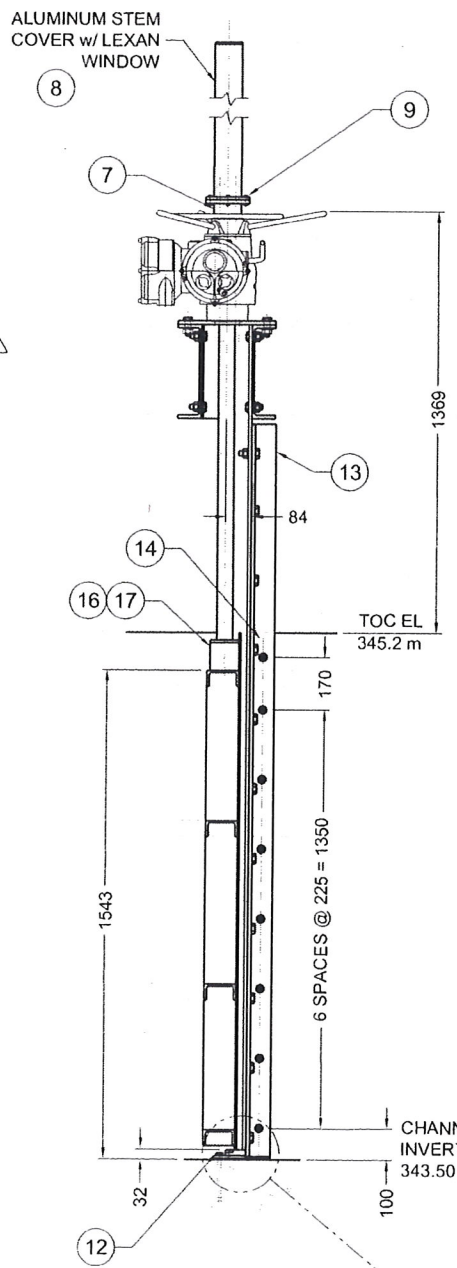
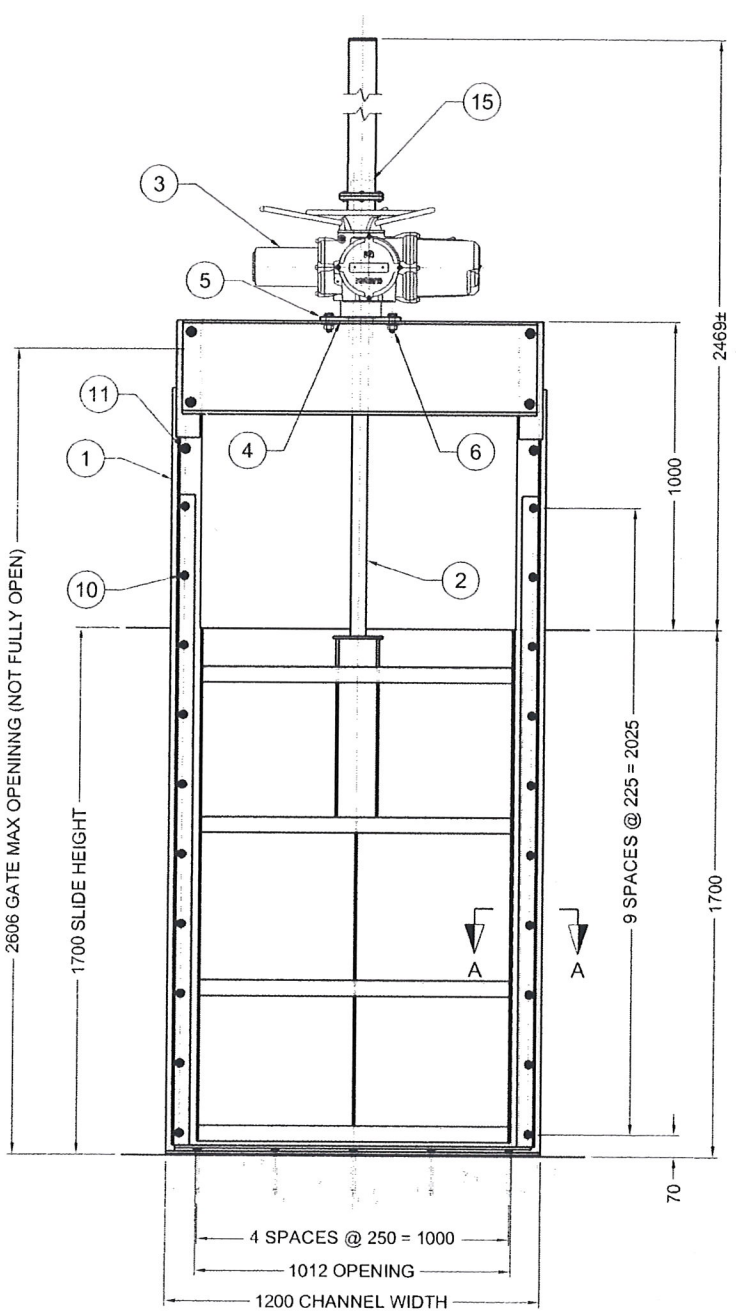
SECTION 4
 SCALE 1:50
 S2-101

NOTICE:
 AS-CONSTRUCTED DIMENSIONS, MEASUREMENTS AND OTHER DETAILS CONTAINED IN THIS RECORD DRAWING HAVE BEEN OBTAINED BY AECOM CANADA LTD. ("AECOM") FROM VARIOUS SOURCES. SUCH INFORMATION REPRESENTS THE BEST INFORMATION AVAILABLE TO AECOM AT THE TIME OF PREPARATION OF THIS RECORD DRAWING. AECOM DOES NOT IN ANY WAY REPRESENT OR WARRANT THAT SUCH INFORMATION IS ACCURATE AND ASSUMES NO RESPONSIBILITY FOR ANY ERRORS OR OMISSIONS CONTAINED THEREIN.

CITY OF PENTICTON		PROJECT START DATE (M/Y)	
AWWTP UPGRADE		APRIL 2008	
PENTICTON, B.C.		PROJECT NO.	
STRUCTURAL		102949	
HEADWORK BUILDING		FILENAME	
BUILDING SECTIONS		102949-S2-102.dwg	
		SHEET NO.	
		DRAWING NO.	
		S2-102	

DESIGNED BY:	BA	20130809
CHECKED BY:	HL	20080831
APPROVED BY:	AM	20080525
REVISION:	DESCRIPTION	DATE (Y/M/D)
2	RECORD DRAWING	CJM KJM 20130809
1	ISSUED FOR CONSTRUCTION	PTL KM 20080831
0	ISSUED FOR TENDER	DL KM 20080525

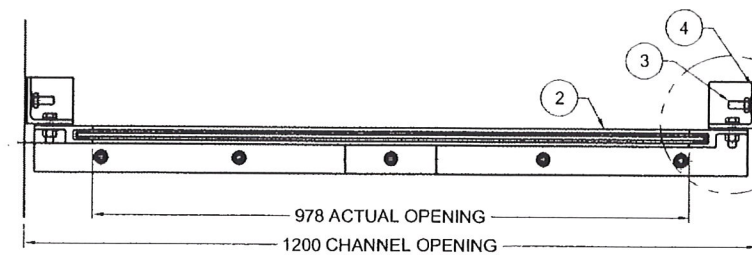
ACTUATOR INFO:
- ROTORK IQ SERIES
- MODEL IQ20 FA14Z3
- 43 R.P.M. OUTPUT (FINAL)
- INPUT SUPPLY VOLTAGE: 480/3/60
- OUTPUT CONTROL VOLTAGE: 120VAC
- OPEN-CLOSE
- WIRING DIAGRAM 3000-901
- TRAVEL SPEED: 273 mm/min
- OPENING TIME ONE WAY: 3.35 min (NOT FULLY OPEN)
- OPERATING TEMPERATURE TO -40°C TO +60°C
- TOP HANDWHEEL
- PROFIBUS SINGLE CHANNEL
- WEATHER TIGHT ENCLOSURE



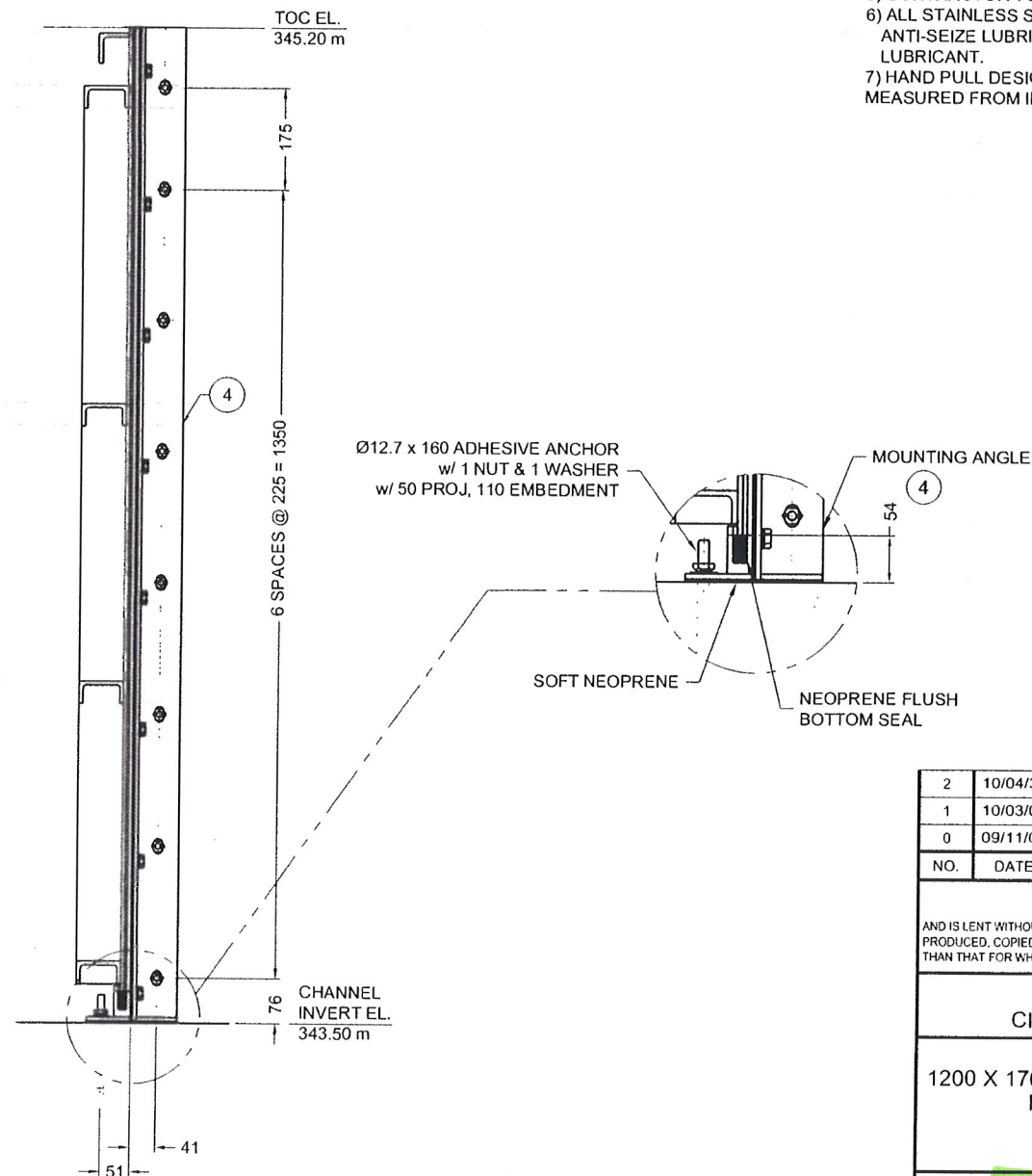
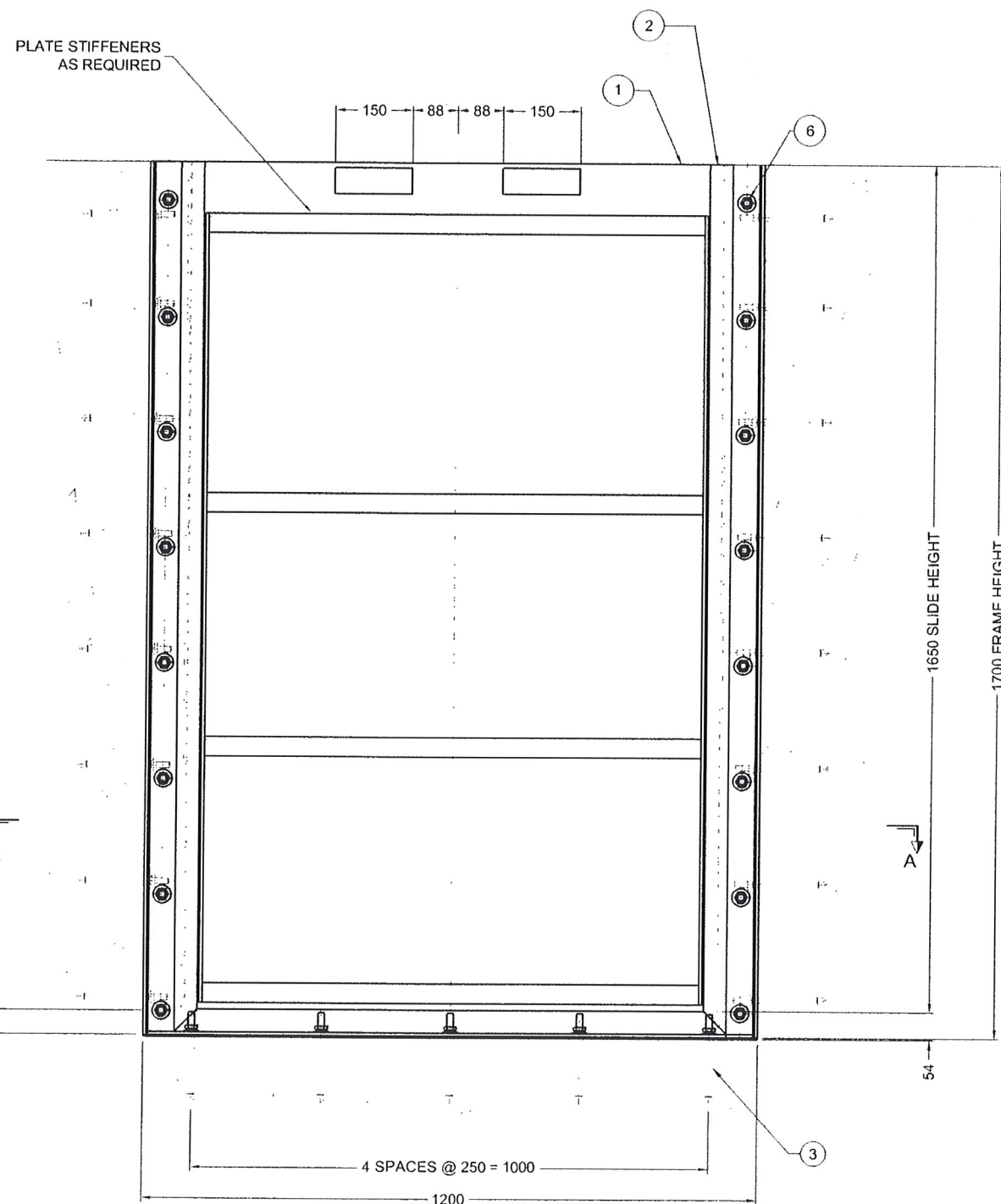
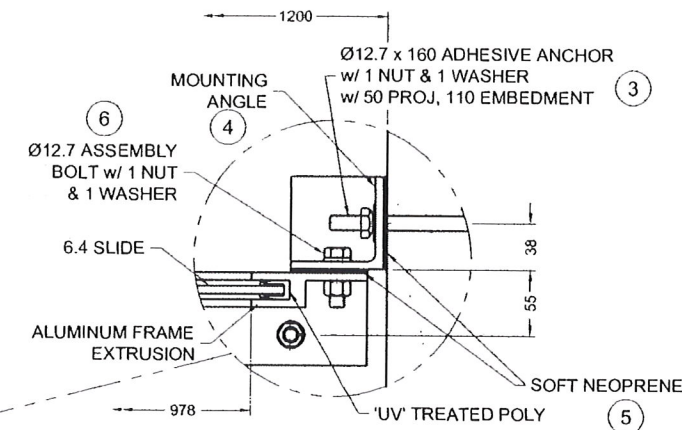
BILL OF MATERIAL					
NO.	QTY	DESCRIPTION	MATL	WT.	PART/DWG NO.
1	1	GATE ASSEMBLY	AI	112.0	09-1097706-086
2	1	Ø50.8 STEM x 1635 LG	303SS	26.0	09-1097706-091
3	1	ROTORK IQ20 SERIES		52.2	
4	4	Ø15.9 x 38 FLAT HEAD BOLT	304SS	0.3	ABM16038SF
5	1	LIFT MOUNTING PLATE	304SS	8.2	09-1097706-095
6	4	Ø19.1 x 51 MACHINE BOLT w/ 1 NUT AND 1 WASHER	304SS	1.5	ABM19051S0
7	1	STEM COVER ADAPTOR (3" NPT)	304SS	1.7	ACFT076000
8	1	STEM COVER (1067 LG)	AI	2.5	ACTA182900
9	4	Ø9.5 x 32 MACHINE BOLT w/ 1 NUT AND 1 WASHER	304SS	0.2	ABM10032S0
10	20	Ø12.7 x 76 MACHINE BOLT w/ 1 NUT AND 1 WASHER	304SS	3.1	ABM13076S0
11	2	Ø12.7 x 51 MACHINE BOLT w/ 1 NUT AND 1 WASHER	304SS	0.4	ABM13051S0
12	5	Ø12.7 x 121 HEX HEAD MECH ANCHOR	304SS	0.8	ABQ13121SH
13	2	MOUNTING ANGLE	AI	11.5	09-1097706-092
14	16	Ø12.7 x 160 ADHESIVE ANCHOR w/ 1 NUT AND 1 WASHER	304SS	4.4	ABD13160S0
15	1	Ø50.8 STOP NUT	AI	0.3	ALUS510000
16	1	121 x 121 x 111 STEM BLOCK	BRZ	11.3	AR121BBTRH
17	1	Ø15.9 x 127 MACHINE BOLT	304SS	0.1	ABM16127S0
18	1	9.5 x 76 x 11200 LG NEOPRENE	RUBB	2.4	AK07609040
19	1	9.5 x 102 x 1300 LG NEOPRENE	RUBB	0.4	AK10209040

NOTES:
1) ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE
2) SEE MANUAL G-1900-1 FOR INSTALLATION AND ADJUSTMENT INSTRUCTIONS
3) STEM THREAD - MODIFIED SINGLE ACME RIGHT HAND, 4 THREADS PER 25.4 mm
STEM MATERIAL - STAINLESS STEEL 303
4) DO NOT SCALE DRAWING
5) GATE OPENS WHEN OPERATOR IS TURNED COUNTER-CLOCKWISE
6) PROPER INSTALLATION OF THE ANCHOR BOLTS IS THE RESPONSIBILITY OF THE CONTRACTOR
7) ALL ANCHOR BOLT PROJECTIONS ASSUME NO GROUT
8) CONTRACTOR TO VERIFY ALL DIMENSIONS AND ELEVATIONS
9) MATERIAL:
- FASTENERS: 304SS - STAINLESS STEEL ASTM F593, F594 TYPE 304
- PLATES: ALUMINUM ASTM B-209, ALLOY 6061 T-6
- GATE: AL - STRUCTURALS 6061-T6
- SEALS: RUBBER - NEOPRENE ASTM D2000
- POLY: ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE (UHMW PE)
- GASKET: SOFT SC41 NEOPRENE SPONGE PSA-1S ASTM D1056-67
10) ALL PAINTED SURFACES SUPPLIED w/ MANUFACTURES STANDARD COATING, UNLESS OTHERWISE NOTED
11) ALL STAINLESS STEEL FASTENERS SHOULD BE INSTALLED WITH FELPRO C5A COPPER BASE ANTI-SEIZE LUBRICANT (OR EQUIVALENT)
12) STOP NUT MUST BE SET PRIOR TO OPERATING THE GATE
13) GATE & LIFT DESIGNED FROM INVERT FOR 1.0 m SEATING & UNSEATING HEAD

2	10/04/30	ISSUED FOR CONSTRUCTION	AL	
1	10/03/02	RE-ISSUED FOR APPROVAL	AL	JB
0	09/11/09	ISSUED FOR APPROVAL	dp	JB
NO.	DATE	DESCRIPTION OF REVISION	BY	CK'D
THIS DRAWING IS THE PROPERTY OF ARMTEC LIMITED PARTNERSHIP AND IS LENT WITHOUT CONSIDERATION OTHER THAN THE BORROWER'S AGREEMENT THAT IT SHALL NOT BE REPRODUCED, COPIED, LENT OR DISPOSED OF, DIRECTLY OR INDIRECTLY, NOR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS SPECIFICALLY FURNISHED. THIS PRINT IS LENT SUBJECT TO RETURN ON DEMAND.				
MAPLE REINDERS INC. CITY OF PENTICTON - AWWTP UPGRADE				
1200 x 1700 ALUMINUM IN-CHANNEL MOUNTED GATE w/ RISING STEM & IQ20 ELECTRIC ACTUATOR			DATE	09/10/20
			DRAWN	dp
			CHECKED	JB
			REVIEWED	
			SCALE	N.T.S.
TAG NO. 02-SG-111, 02-SG-121 & 02-SG-131			BR.-SG#	580-1097706
QUANTITY 3			DRAWING NO.	09_1097706_001
WT 239.3 kg			REV	2
			SHEET	1 OF 21



SECTION A-A



BILL OF MATERIAL					
NO.	QTY	DESCRIPTION	MAT'L	WT.	PART/DWG NO.
1	1	HANDPULL SLIDE	AI	42.8	09-1097706-082
2	1	HANDPULL FRAME	AI	23.4	09-1097706-083
3	21	Ø12.7 x 160 ADHESIVE ANCHOR w/ 1 NUT & 1 WASHER	304SS	6.5	ABD13160S0
4	2	MOUNTING ANGLE	AI	8.8	09-1097706-085
5	1	6.4 x 76 x 8100 NEOPRENE	RUBB	0.2	AK07609040
6	16	Ø12.7 x 38 MACHINE BOLT w/ 1 NUT & 1 WASHER	304SS	2.0	ABM13038S0

NOTES:

- 1) ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
- 2) DO NOT SCALE DRAWING.
- 3) PROPER INSTALLATION OF THE ANCHOR BOLTS IS THE RESPONSIBILITY OF THE CONTRACTOR.
- 4) MATERIAL: SLIDE PLATE - ALUMINUM 6061-T6.
EXTRUSIONS - ALUMINUM 6061-T6.
ALL OTHER ALUMINUM - 6061-T6.
FASTENERS - ASTM F593, F594 SSTL TYPE 304
SIDE SEAL - LOW DENSITY BLACK POLYETHYLENE
BOTTOM SEAL - NEOPRENE SPONGE ASTM D1056 GRADE 285
GASKET - SOFT NEOPRENE SPONGE PSA-1S
ASTM D1056 GRADE 2A1
- 5) CONTRACTOR TO VERIFY ALL DIMENSIONS AND ELEVATIONS.
- 6) ALL STAINLESS STEEL FASTENERS SHOULD BE INSTALLED WITH AN ANTI-SEIZE LUBRICANT SUCH AS FELPRO C5A COPPER BASE ANTI-SEIZE LUBRICANT.
- 7) HAND PULL DESIGNED FOR 1.0 m SEATING AND 1.0 m UNSEATING HEAD MEASURED FROM INVERT.

2	10/04/30	ISSUED FOR CONSTRUCTION	AL	JB
1	10/03/02	RE-ISSUED FOR APPROVAL	AL	JB
0	09/11/06	ISSUED FOR APPROVAL	MMC	JB
NO.	DATE	DESCRIPTION OF REVISION	BY	CK'D

THIS DRAWING IS THE PROPERTY OF
ARMTEC LIMITED PARTNERSHIP
AND IS LENT WITHOUT CONSIDERATION OTHER THAN THE BORROWER'S AGREEMENT THAT IT SHALL NOT BE RE-PRODUCED, COPIED, LENT OR DISPOSED OF, DIRECTLY OR INDIRECTLY, NOR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS SPECIFICALLY FURNISHED. THIS PRINT IS LENT SUBJECT TO RETURN ON DEMAND.

MAPLE REINDERS INC. CITY OF PENTICTON- AWWTP UPGRADE		DATE 09/10/26	
1200 X 1700 IN-CHANNEL MOUNTED HANDPULL GATE		DRAWN MMC	
		CHECKED JB	
		REVIEWED	
		SCALE N.T.S.	
TAG NO. 02-HPG-112,02-HPG-132 & 02-HPG-122	BR. SG# 580-1097706	QUANTITY 3	DRAWING NO. 09,1097706,002
WT 83.7 kg		SHEET 2 OF 21	REV 2