

GENERAL NOTES:

1. ALL WORK SHALL CONFORM TO THE ONTARIO BUILDING CODE, LATEST EDITION.
2. ALL WORK SHALL CONFORM TO THE OCCUPATIONAL HEALTH & SAFETY ACTS, LATEST EDITIONS.
3. CONTRACTOR TO VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY PRIOR TO CONSTRUCTION.
4. THE CONTRACTOR SHALL OBTAIN ALL THE NECESSARY CONSTRUCTION PERMITS FOR THE PROJECT.

STRUCTURAL STEEL NOTES:

1. ALL STRUCTURAL STEEL SHALL BE OF NEW MATERIAL AND SHALL CONFORM TO CAN/CSA STANDARD G40.21-04-M 350W (Fy=50.0 ksi).
2. ALL STRUCTURAL STEEL PLATE SHALL BE OF NEW MATERIAL AND SHALL CONFORM TO CAN/CSA STANDARD G40.21-04-M 300W (Fy=44.0 ksi).
3. ALL HSS STRUCTURAL STEEL SHALL BE OF NEW MATERIAL AND SHALL CONFORM TO CAN/CSA STANDARD G40.20-04-M 350W (Fy=50.0 ksi) CLASS 'H'.
4. STRUCTURAL STEEL MEMBERS SHALL NOT BE SPLICED UNLESS APPROVED BY THE STRUCTURAL ENGINEER IN WRITING.
5. ALL WELDING SHALL BE IN ACCORDANCE WITH CAN/CSA SPECIFICATION W59-13.
6. THE FABRICATOR SHALL BE CERTIFIED BY THE CANADIAN WELDING BUREAU TO THE REQUIREMENTS OF CAN/CSA SPECIFICATION W47.1-09 (R2014) DIVISION 1 OR 2.
7. ALL MATERIALS, COMPONENTS AND WORKMANSHIP SHALL CONFORM TO CAN/CSA SPECIFICATION S16-01.
8. ALL WELDING SHALL BE COMPLETED WITH THE SMAW PROCESS - ELECTRODES E4918 (E7018) LOW HYDROGEN, UNLESS NOTED OTHERWISE.
9. ALL WELDING SHALL CONFORM TO CAN/CSA SPECIFICATION W59-13. THE MINIMUM SIZE OF WELDS TO BE 1/4" (6 mm) OR THE MINIMUM SIZE ALLOWED UNDER CAN/CSA W59-03 FOR THICKNESS OF MEMBERS JOINED, SHALL BE USED UNLESS SHOWN OTHERWISE. ALL WELDS SHALL BE CONTINUOUS AROUND CONNECTED PARTS UNLESS NOTED OTHERWISE.
10. ALL HOLES SHALL BE DRILLED OR BORED TO SIZE, UNLESS NOTED OTHERWISE.
11. ALL BOLTS SHALL BE ASTM A325 GRADE, UNLESS NOTED OTHERWISE.
12. CONTRACTOR SHALL PROVIDE TEMPORARY SHORING, BRACING, GUYING, ETC., DESIGNED BY A PROFESSIONAL ENGINEER LICENCED IN THE PROVINCE OF ONTARIO, FOR CONSTRUCTION AND EQUIPMENT LOADS AS REQUIRED FOR THE PROJECT DURATION.

SHOP DRAWING NOTES:

1. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE DESIGN ENGINEER FOR REVIEW PRIOR TO THE START OF FABRICATION AND/OR ERECTION. ALL SHOP DRAWINGS SHALL BE STAMPED BY A PROFESSIONAL ENGINEER LICENCED IN THE PROVINCE OF ONTARIO. THE CONTRACTOR HAS THE SOLE RESPONSIBILITY TO REVIEW, CHECK AND COORDINATE THE SHOP DRAWINGS PRIOR TO SUBMISSION. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS, DIMENSIONS, ETC.

SHOP ASSEMBLY NOTES:

1. CONTRACTOR SHALL ASSEMBLE ALL FABRICATED COMPONENTS IN THE SHOP FOR OPERATIONS VERIFICATION. ALL COMPONENTS SHALL BE INSPECTED AND OPERATIONS WITNESSED BY THE OWNER'S REPRESENTATIVES AND ENGINEER, PRIOR TO SHIPPING.

HOT DIP GALVANIZING NOTES:

1. ALL STRUCTURAL STEEL SHALL BE HOT DIP GALVANIZED AFTER FABRICATION, TO CAN/CSA-G164-M92 (R2003) HOT DIP GALVANIZING OF IRREGULARLY SHAPED ARTICLES STANDARD.
2. ZINC COATING MASS, ADHESIONS AND UNIFORMITY SHALL MEET THE REQUIREMENTS OF CAN/CSA-G164-M92 (R2003).
3. THE CONTRACTOR SHALL PROVIDE A SMOOTH FINISH ON ALL EDGES AND SURFACES AND SHALL REMOVE ALL WELD SPATTERS AND WELD FLUX RESIDUE FROM THE COMPONENT PRIOR TO GALVANIZING.
4. PROVIDE Ø12 mm (Ø1/2") VENT AND DRAIN HOLES TO ALLOW THE COMPONENT TO BE SAFELY HOT DIP GALVANIZED.

PROJECT DRAWINGS:

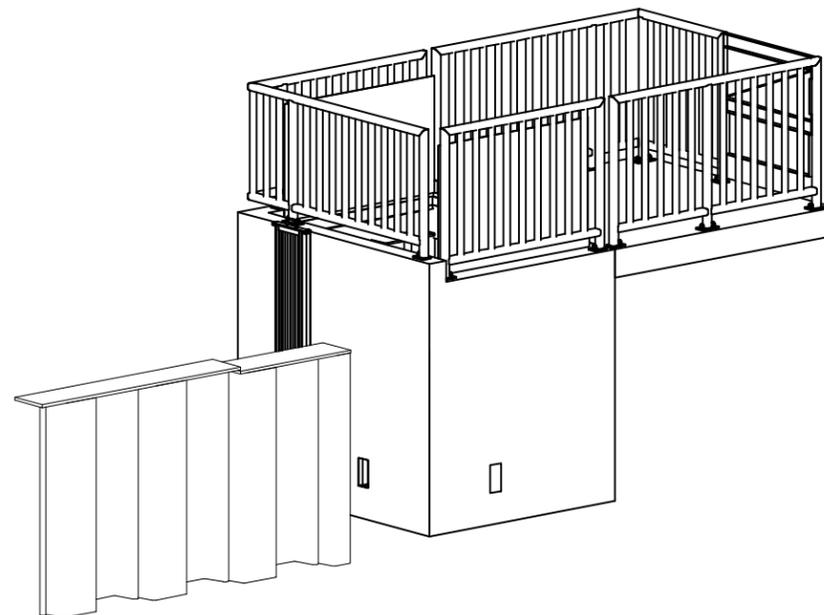
- 2568-16-G-001 GENERAL NOTES - SHEET 1 OF 2
- 2568-16-G-002 GENERAL NOTES - SHEET 2 OF 2
- 2568-16-G-003 ISOMETRIC VIEWS
- 2568-16-G-004 PLAN & ELEVATION
- 2568-16-G-005 ELEVATION
- 2568-16-G-006 CONCRETE TRAP ASSEMBLY
- 2568-16-G-007 CONCRETE TRAP DETAILS
- 2568-16-G-008 REINFORCED CONCRETE DETAILS
- 2568-16-G-009 GUARDRAILS A, B, C & D
- 2568-16-G-010 LAMPREY ENTRANCE FRAME
- 2568-16-G-011 UPSTREAM WATER INTAKE FRAME

REFERENCE DRAWINGS:

1. SEA LAMPREY CONTROL CENTRE
DEPT. OF FISHERIES AND OCEANS
SAULT STE. MARIE, ONTARIO
LITTLE OTTER CREEK LAMPREY BARRIER
SHEET 1 OF 2
2. SEA LAMPREY CONTROL CENTRE
DEPT. OF FISHERIES AND OCEANS
SAULT STE. MARIE, ONTARIO
LITTLE OTTER CREEK LAMPREY BARRIER
SHEET 2 OF 2

NOTE:

1. ALL FIELD DATA AND DETAILING PROVIDED BY FISHERIES & OCEANS CANADA SEA LAMPREY CONTROL CENTRE.



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FISHERIES & OCEANS CANADA SEA LAMPREY CONTROL CENTRE		LITTLE OTTER RIVER SEA LAMPREY BARRIER TRAP GENERAL NOTES - SHEET 1 OF 2	

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				31/01/2017					
Rev. No.	Description of Revision	By	App.	Drawn By:	CM	04/08/2016			
Date				Checked By:	EO	31/01/2017			
				Approved By:					

EXCAVATION & BACKFILL NOTES:

1. ALL GRANULAR BACKFILL MATERIAL SHALL CONFORM TO O.P.S.S. 1010 AGGREGATES STANDARD.
1. EXCAVATE EXISTING SOILS TO DENSE NATIVE SAND STRATUM WITH AN ALLOWABLE BEARING CAPACITY OF 95.6 kPa (2,000 PSF) AND BACK FILL WITH PIT SOURCE GRANULAR MATERIALS, TO ELEVATIONS SHOWN ON THE DRAWINGS.
2. ALL GRANULAR BACKFILL MATERIAL SHALL BE PLACED IN 8" MAXIMUM LOOSE LIFTS AND COMPACTED TO 100% STANDARD PROCTOR MAXIMUM DRY DENSITY.
3. SHOULD UNUSUALLY SOFT SOILS BE ENCOUNTERED DURING THE EXCAVATION, CONTACT THE ENGINEER IMMEDIATELY.
4. CONTRACTOR TO PROVIDE UTILITIES LOCATES PRIOR TO EXCAVATION.
5. ALL FINAL GRADES FOR EXCAVATION, BACKFILL, RIP-RAP, ETC., SHALL BE 2 HORIZONTAL TO 1 VERTICAL (2:1) MINIMUM.

ENVIRONMENTAL PROTECTION NOTES:

1. MEASURES SHALL BE IMPLEMENTED DURING CONSTRUCTION ACTIVITIES TO PREVENT THE TRANSPORT OF DELETERIOUS SUBSTANCES INCLUDING BUT NOT LIMITED TO DEBRIS, PETROLEUM PRODUCTS, RUBBLE, CONCRETE, PAINTS AND TOXIC CHEMICALS INTO THE WATER.
2. ALL MATERIALS AND EQUIPMENT USED SHALL BE OPERATED AND STORED IN A MANNER THAT PREVENTS ANY DELETERIOUS SUBSTANCES FROM ENTERING THE WATER.
3. THE CONTRACTOR SHALL PROVIDE A WATER DIVERSION PLAN FOR APPROVAL, TO THE DEPARTMENT OF FISHERIES AND OCEANS AND AUTHORITIES HAVING JURISDICTION.

SEDIMENT CONTROL NOTES:

1. SILT SCREENS SHALL BE INSTALLED IN THE STREAM PRIOR TO DISTURBING THE SURROUNDING AREA.

RIP-RAP NOTES:

1. ALL RIP-RAP MATERIAL SHALL BE VISUALLY INSPECTED BY OWNER PRIOR TO DELIVERY TO SITE.
2. RIP-RAP ON THE SLOPES AND RIVER BED SHALL BE 150 mm TO 200 mm DIAMETER, CRUSHED ROCK.
3. RIP-RAP IN THE DOWN-STREAM 1.5 m SHALL BE 200 mm - 300 mm DIAMETER, CRUSHED ROCK.
4. INSTALL RIP-RAP STONE AROUND TRAP STRUCTURE AND BANK EXCAVATIONS AS REQUIRED.

GEOTEXTILE NOTES:

1. GEOTEXTILE SHALL BE TERRAFIX 270R OR APPROVED EQUAL. CARE SHALL BE TAKEN TO ENSURE GEOTEXTILE IS SECURED BY RIP-RAP.
2. PROVIDE 610 mm (24") OF OVERLAP FOR ALL SPLICING, WRAPPING, ETC. FOR THE GEOTEXTILE INSTALLATION.
3. GEOTEXTILE SHALL BE INSTALLED BETWEEN NATIVE SOILS, BACKFILL AND UNDER ALL RIP-RAP MATERIALS.

CONCRETE NOTES:

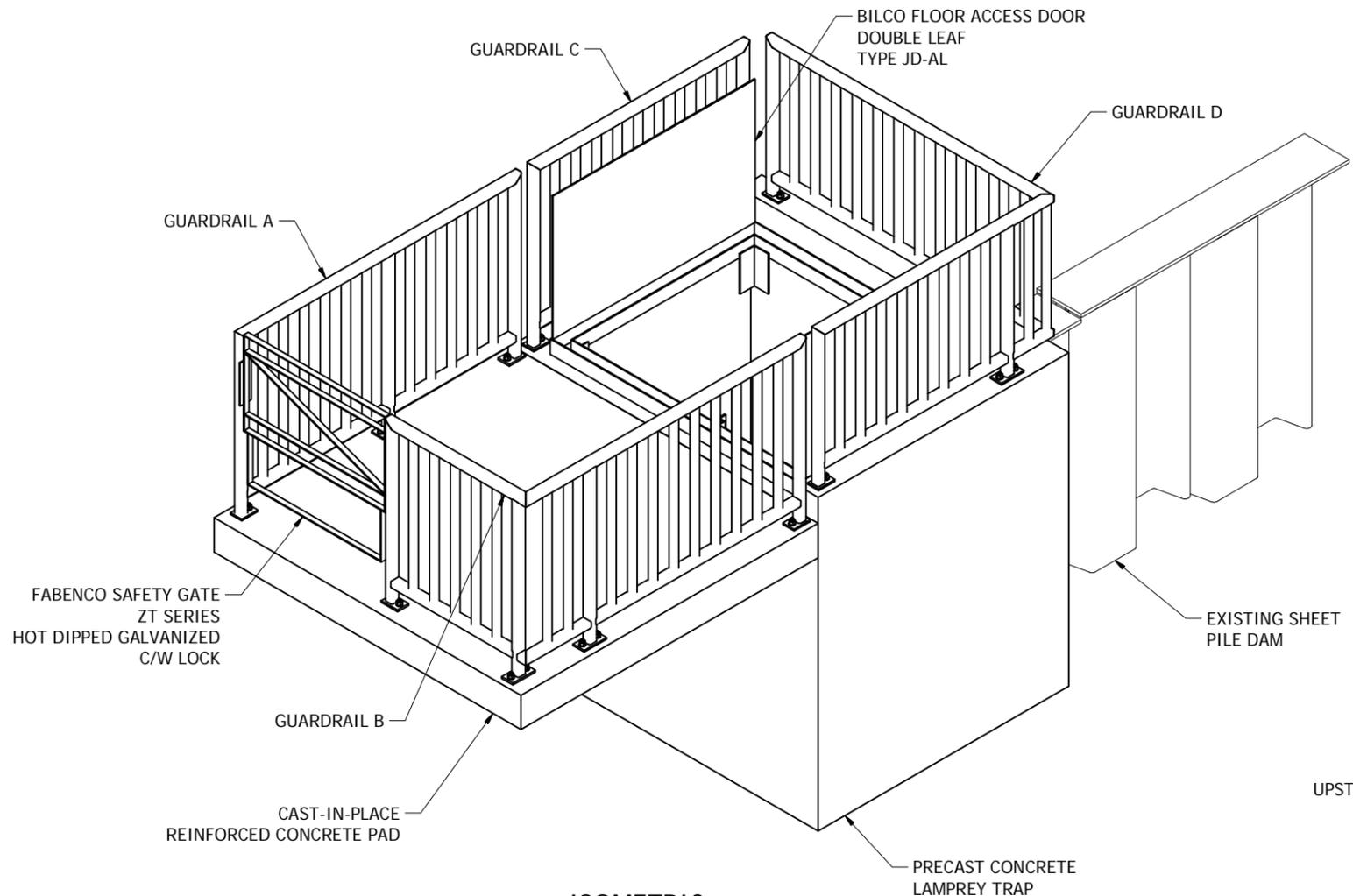
1. ALL CONCRETE SHALL MEET THE SPECIFIED STRENGTH, WORKABILITY AND YIELD, AS PER CSA A23.1 SPECIFICATIONS.
2. FABRICATE AND ERECT CONCRETE FORMWORK IN ACCORDANCE WITH CSA S269.3 AND CSA A23.1. FINISHED CONCRETE TO CONFORM TO SHAPE, DIMENSIONS, LOCATIONS AND ELEVATIONS AS SHOWN ON THE DRAWINGS AND WITHIN THE TOLERANCES REQUIRED BY CSA A23.1.
3. ALL STEEL REINFORCEMENT SHALL BE DEFORMED BARS CONFORMING TO CSA G30.18 M92, Fy=400 MPa (60.0 KSI) GRADE 400.
4. FABRICATE AND PLACE STEEL REINFORCEMENT AS SHOWN ON THE DRAWINGS AND IN ACCORDANCE WITH CSA A23.1. & ANSI/ACI 315. PROVIDE 50 mm (2") REBAR COVER FOR CONCRETE EXPOSED TO BACKFILL AND WATER.
5. ADEQUATELY SUPPORT AND SECURE STEEL REINFORCEMENT AGAINST DISPLACEMENT AND MAINTAIN THE REQUIRED COVER FROM FORMS DURING CONCRETE PLACING USING METHODS AND PRODUCTS IN ACCORDANCE WITH CSA A23.1.
6. REINFORCING BARS SHALL BE SPLICED BY LAPPING - MINIMUM LAPPING SPLICE 24" (610 mm). PROVIDE 24" x 24" (610 mm X 610 mm) BENT 90° CORNER BARS AT CORNERS.
7. PROVIDE 48 HOURS NOTICE TO THE ENGINEER BEFORE PLACING CONCRETE TO ALLOW FOR INSPECTION AND APPROVAL OF STEEL REINFORCEMENT PLACEMENT AND FABRICATION OF FORMWORK.
8. PROVIDE A 3/4" X 3/4" (20 mm X 20 mm) CHAMFER FORMED BY A WOOD OR METAL CHAMFER STRIP, ON ALL EXPOSED CORNERS AND EDGES OF BEAMS, COLUMNS, SLABS & CURBS.
9. CURING OF CONCRETE SURFACES SHALL COMMENCE AS SOON AS THE CONCRETE HAS HARDENED SUFFICIENTLY TO PREVENT SURFACE DAMAGE, BY PLASTIC FILM OR WATERPROOF PAPER.

CONCRETE MATERIALS:

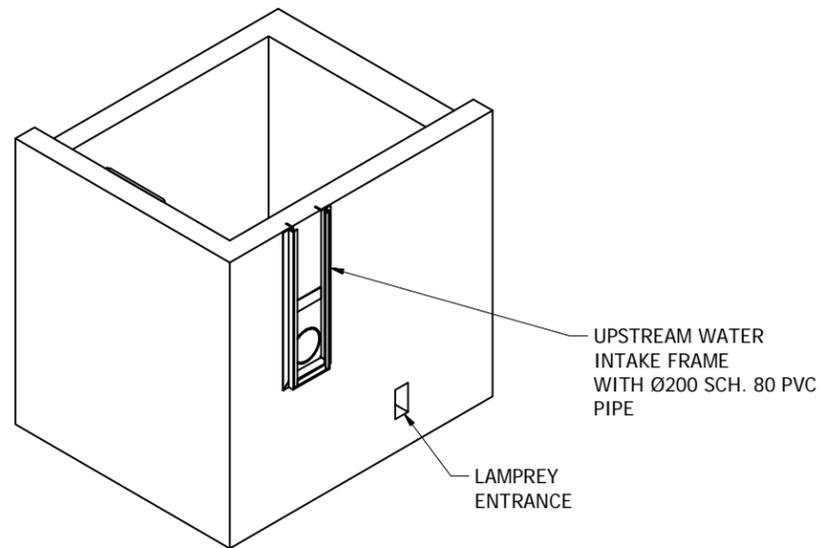
TYPE OF STRUCTURE OR USE	WALL/SLAB/FOOTING
MAXIMUM SIZE OF AGGREGATE (in)	20 mm
EXPOSURE CLASS	F-1
MAXIMUM WATER/CEMENTING MATERIALS RATIO	0.50
MAXIMUM COMPRESSIVE STRENGTH AT 28 DAYS	30 MPa
SLUMP/FLOW	75 mm +/- 20 mm
AIR ENTRAINMENT	5.0% - 8.0%
MINIMUM CEMENTING MATERIALS CONTENT	AS REQUIRED TO MEET SPECIFIED COMPRESSIVE STRENGTH

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<p>FISHERIES & OCEANS CANADA SEA LAMPREY CONTROL CENTRE</p> <p>LITTLE OTTER RIVER SEA LAMPREY BARRIER TRAP</p> <p>GENERAL NOTES - SHEET 2 OF 2</p>		

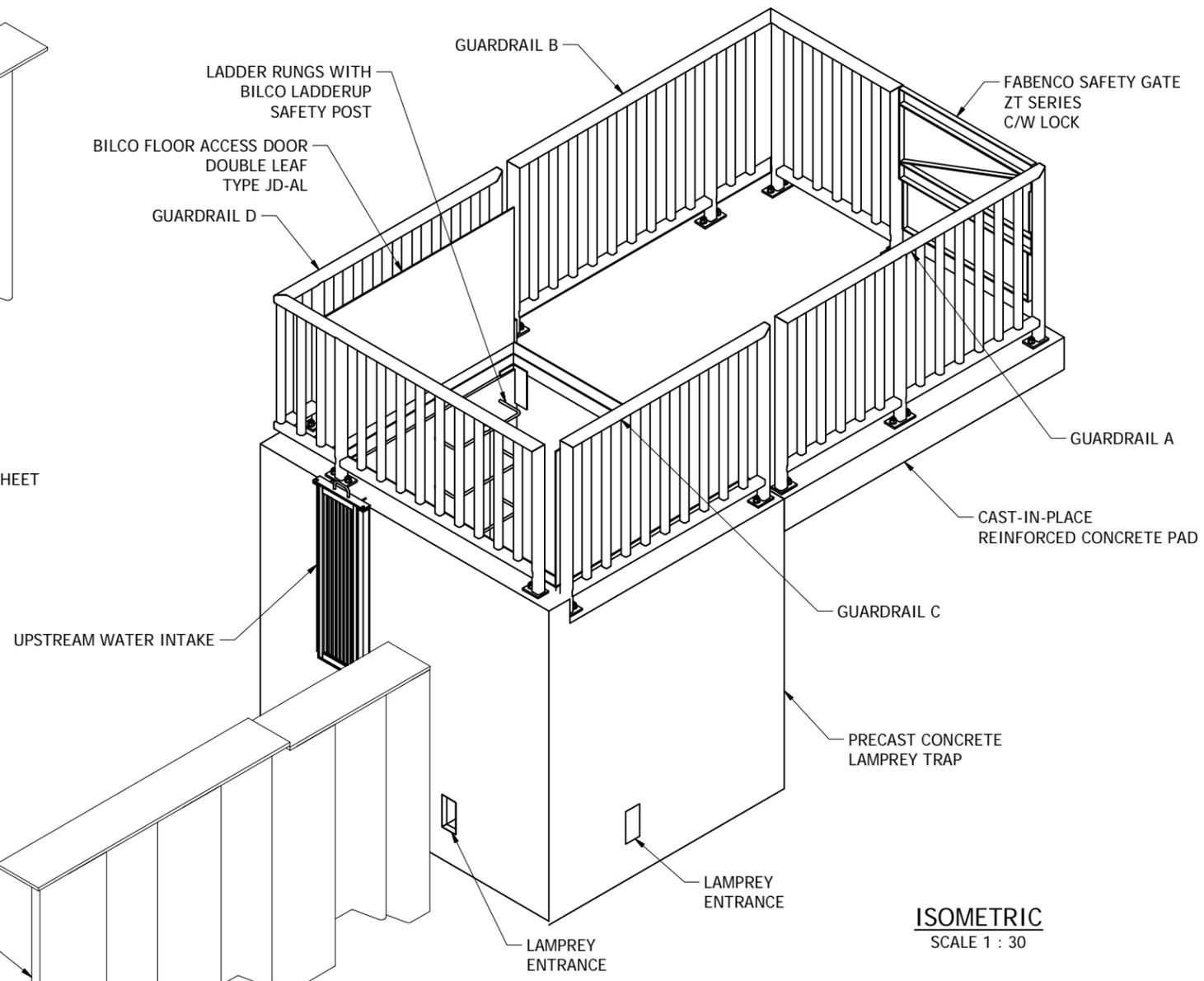
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ISOMETRIC
SCALE 1 : 30



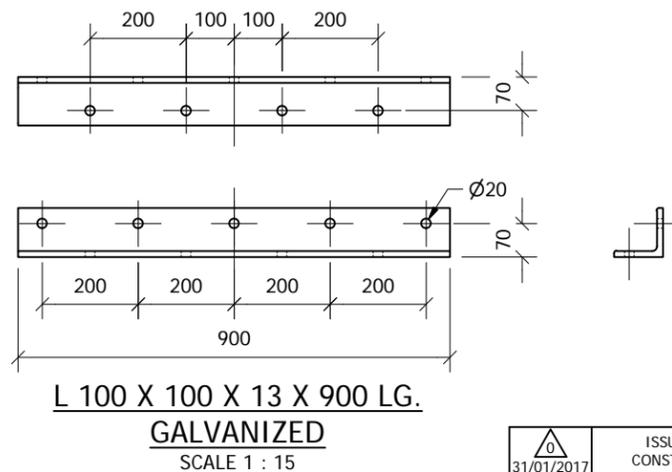
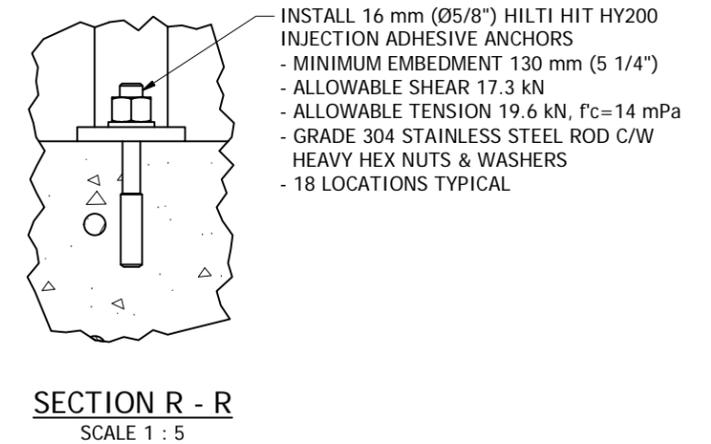
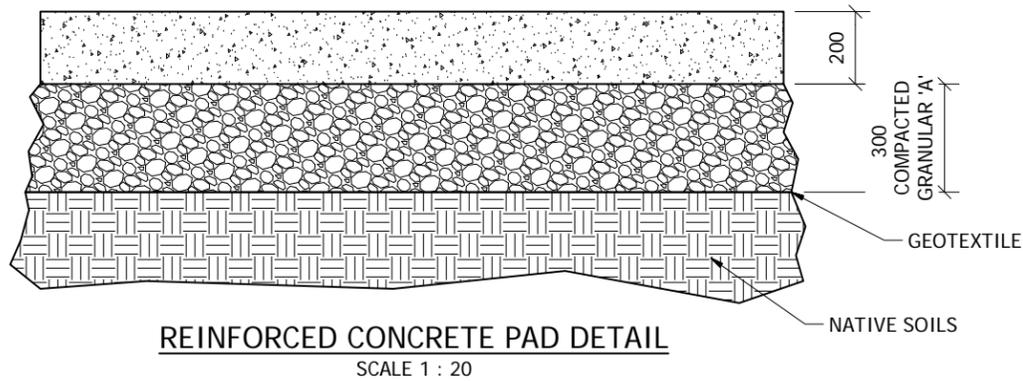
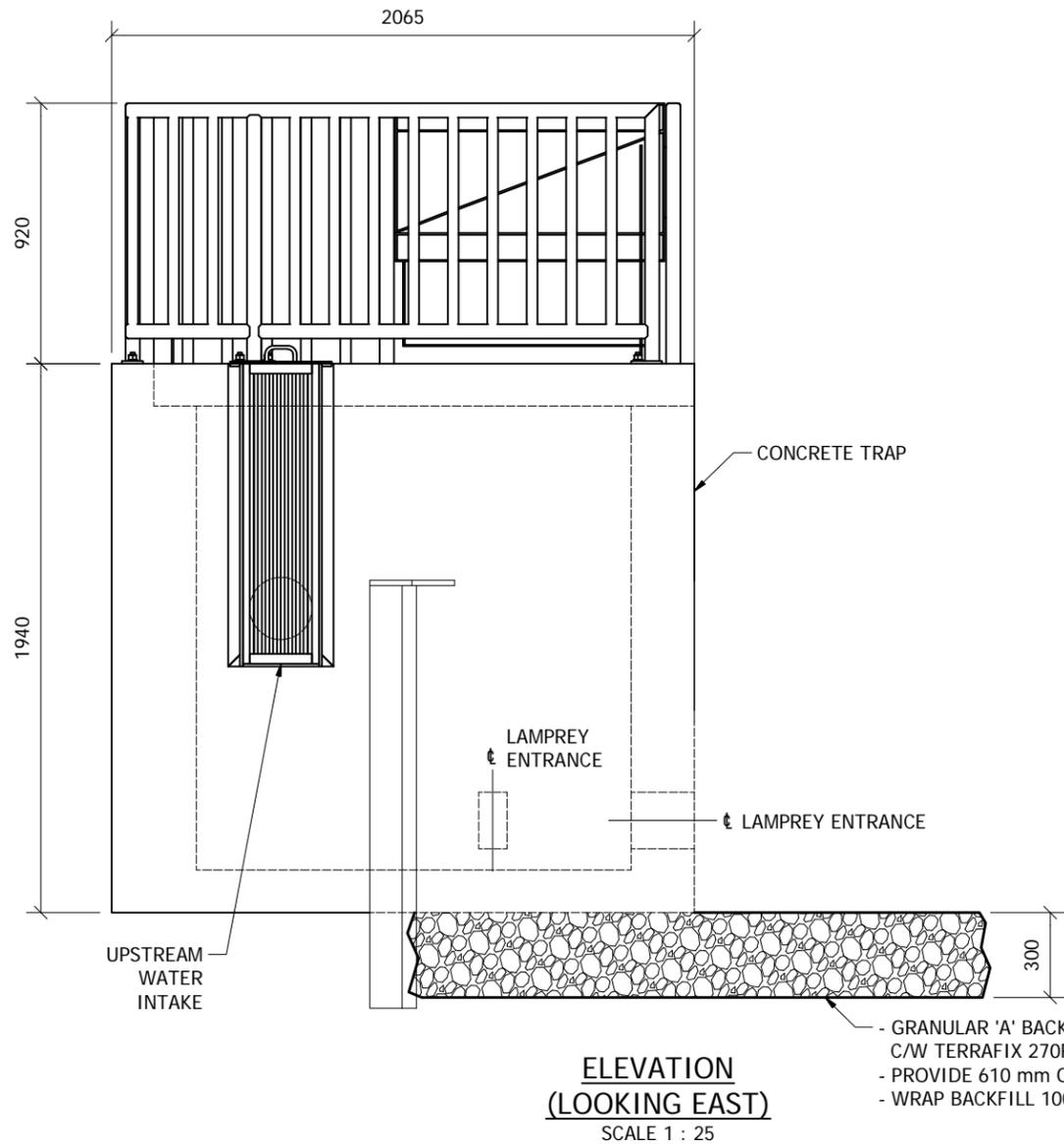
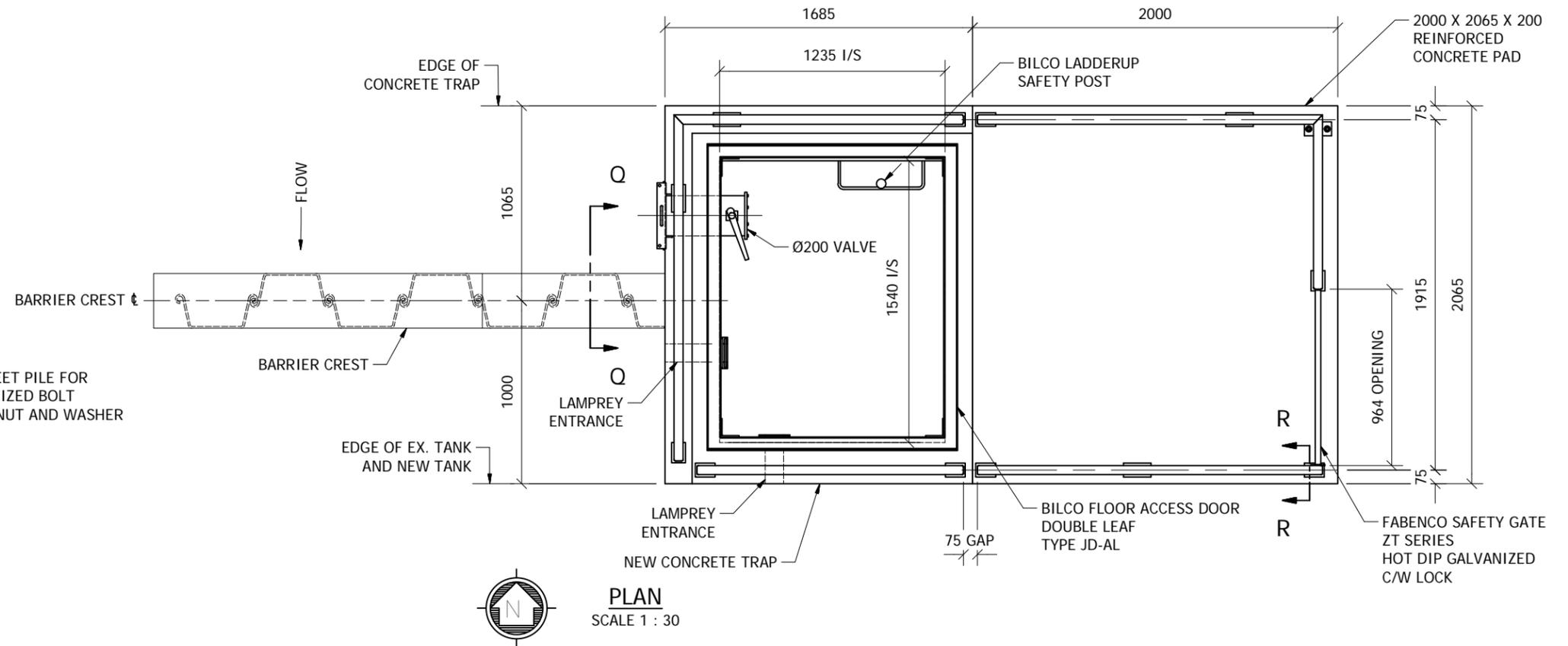
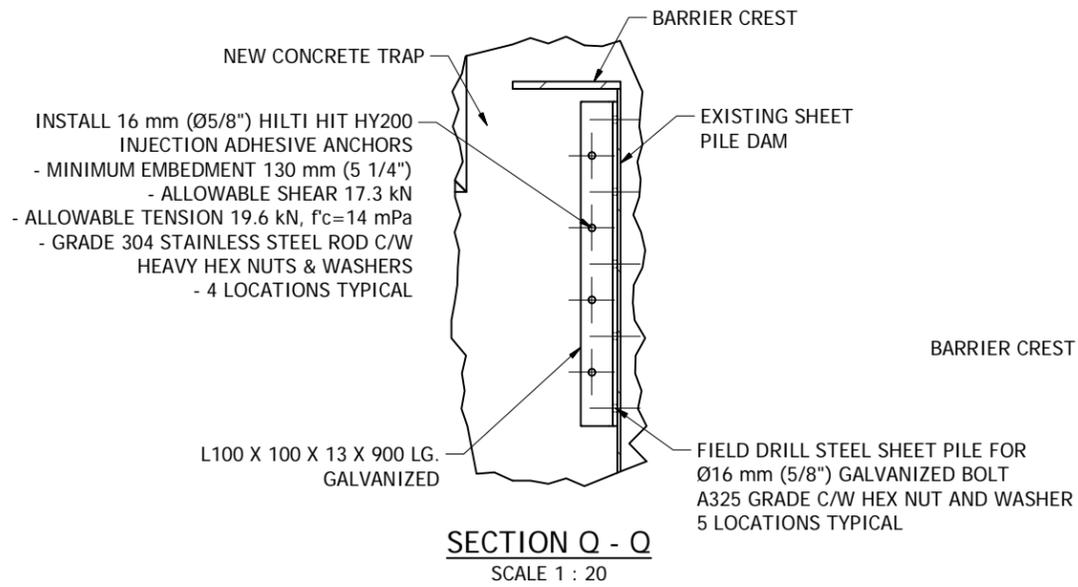
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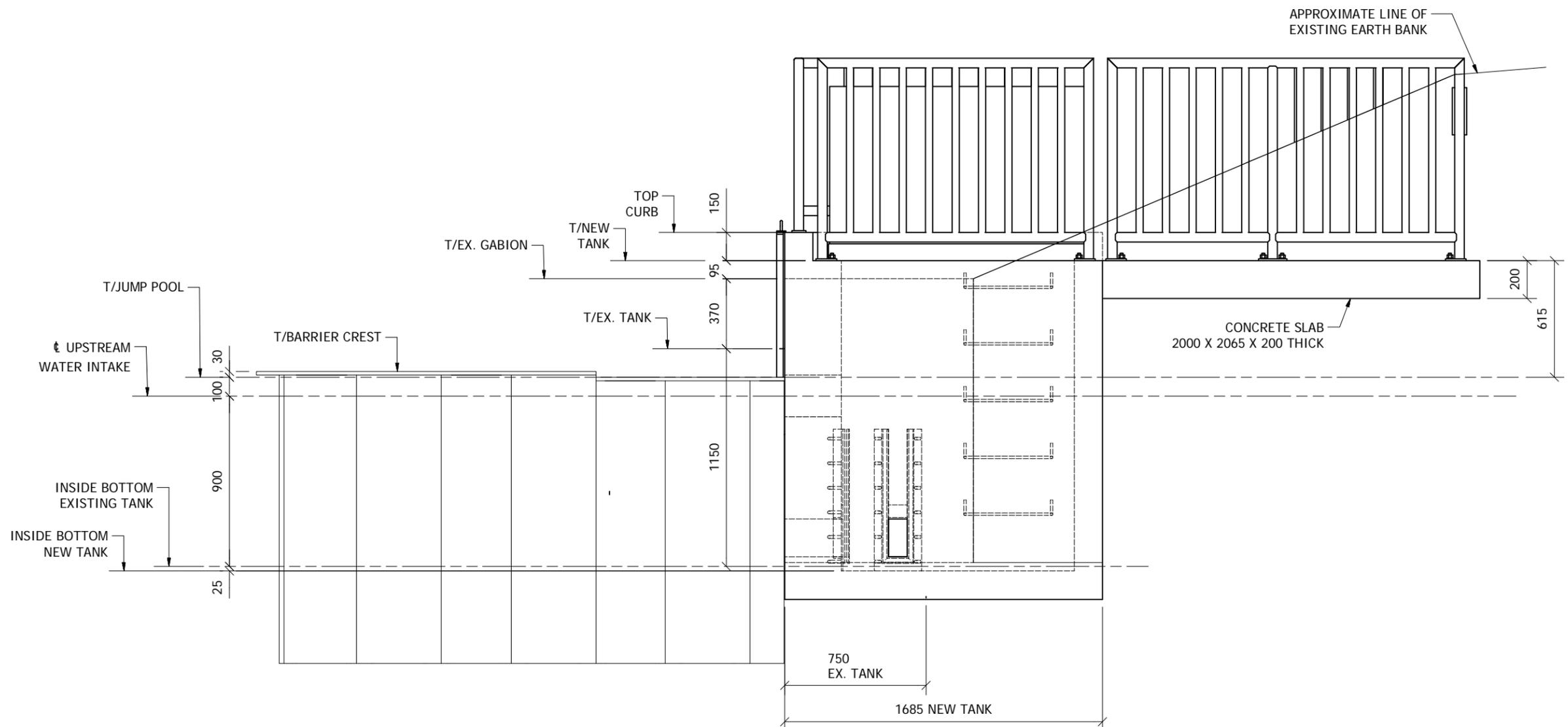
ISOMETRIC
SCALE 1 : 30

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		FISHERIES & OCEANS CANADA SEA LAMPREY CONTROL CENTRE LITTLE OTTER RIVER SEA LAMPREY BARRIER TRAP ISOMETRIC VIEWS	

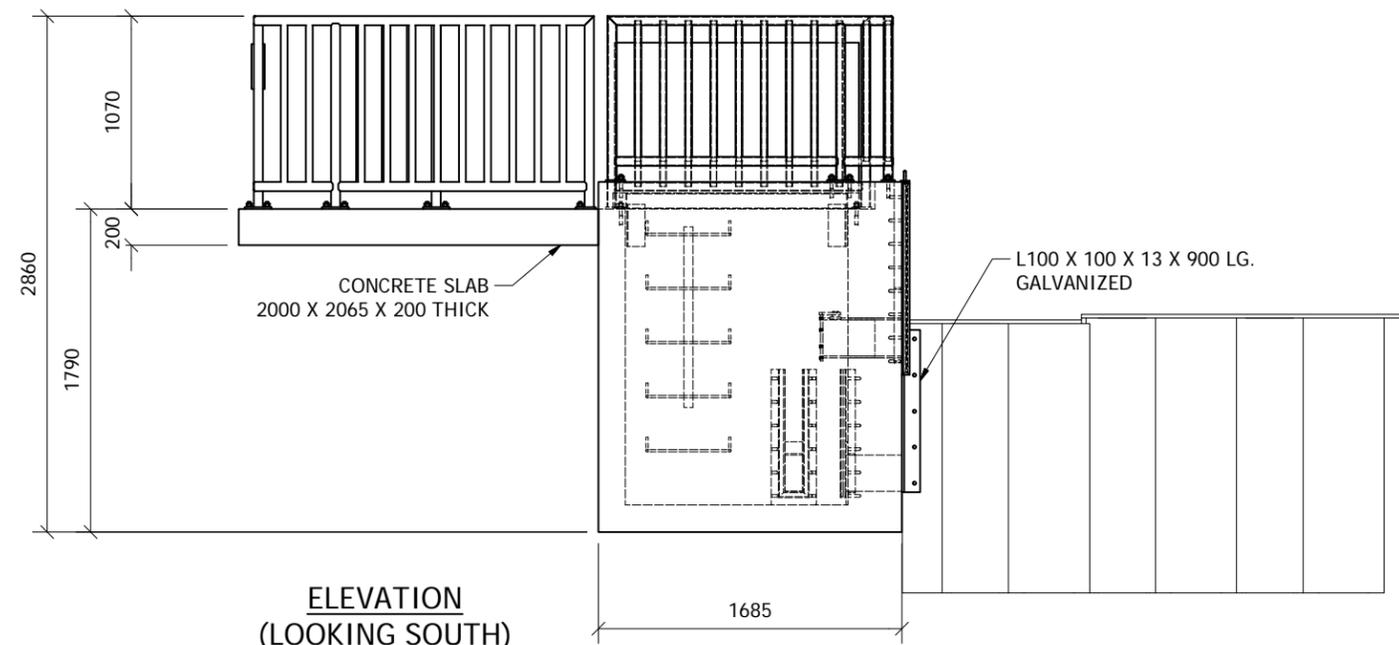
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	31/01/2017	Rev. No.	By	App.	Contract No.	Drawing No.
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		FISHERIES & OCEANS CANADA SEA LAMPREY CONTROL CENTRE LITTLE OTTER RIVER SEA LAMPREY BARRIER TRAP PLAN & ELEVATION	
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Date	31/01/2017	Contract No.	2568-16
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**ELEVATION
(LOOKING NORTH)**
SCALE 1 : 25



**ELEVATION
(LOOKING SOUTH)**
SCALE 1 : 40

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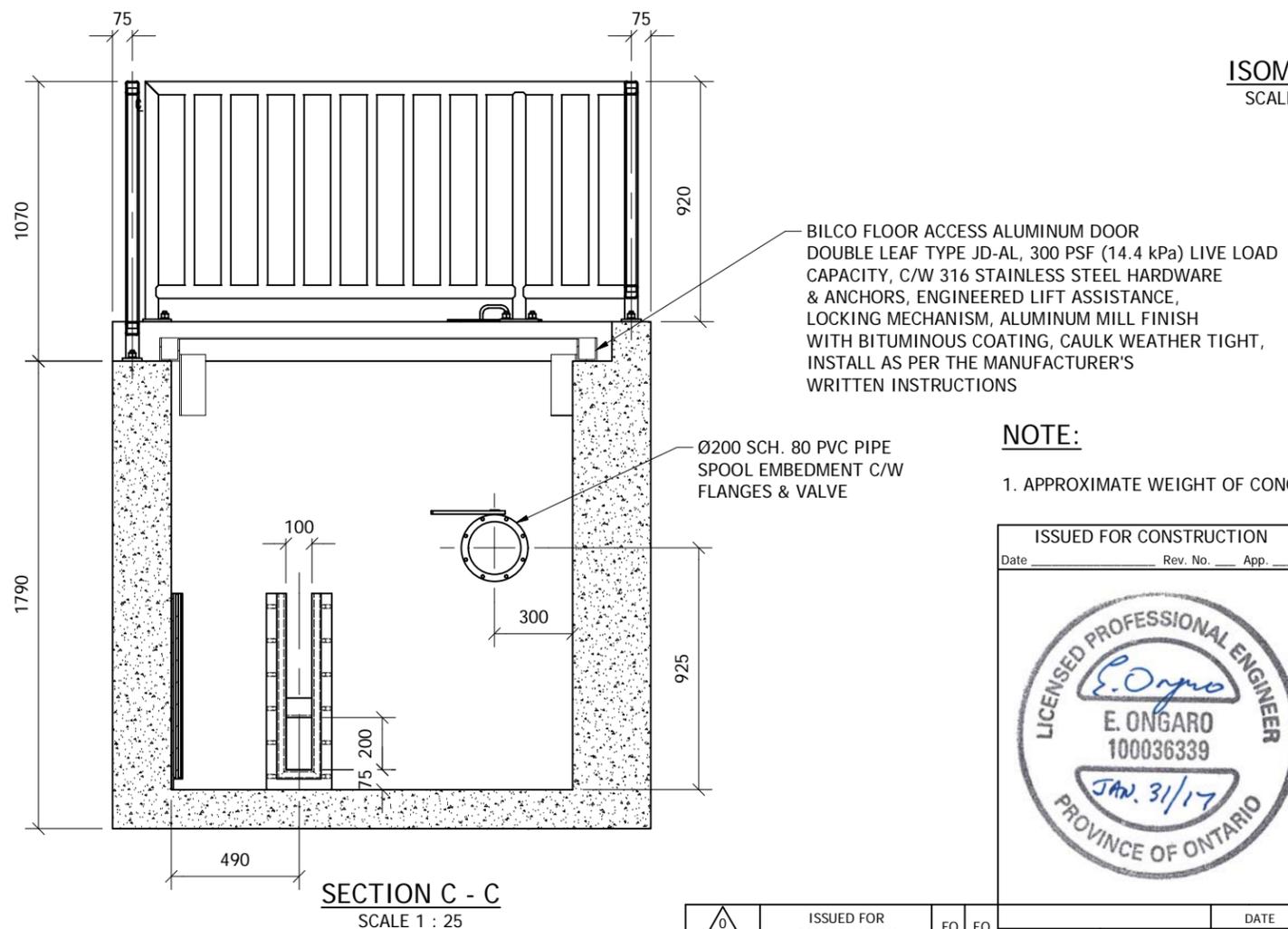
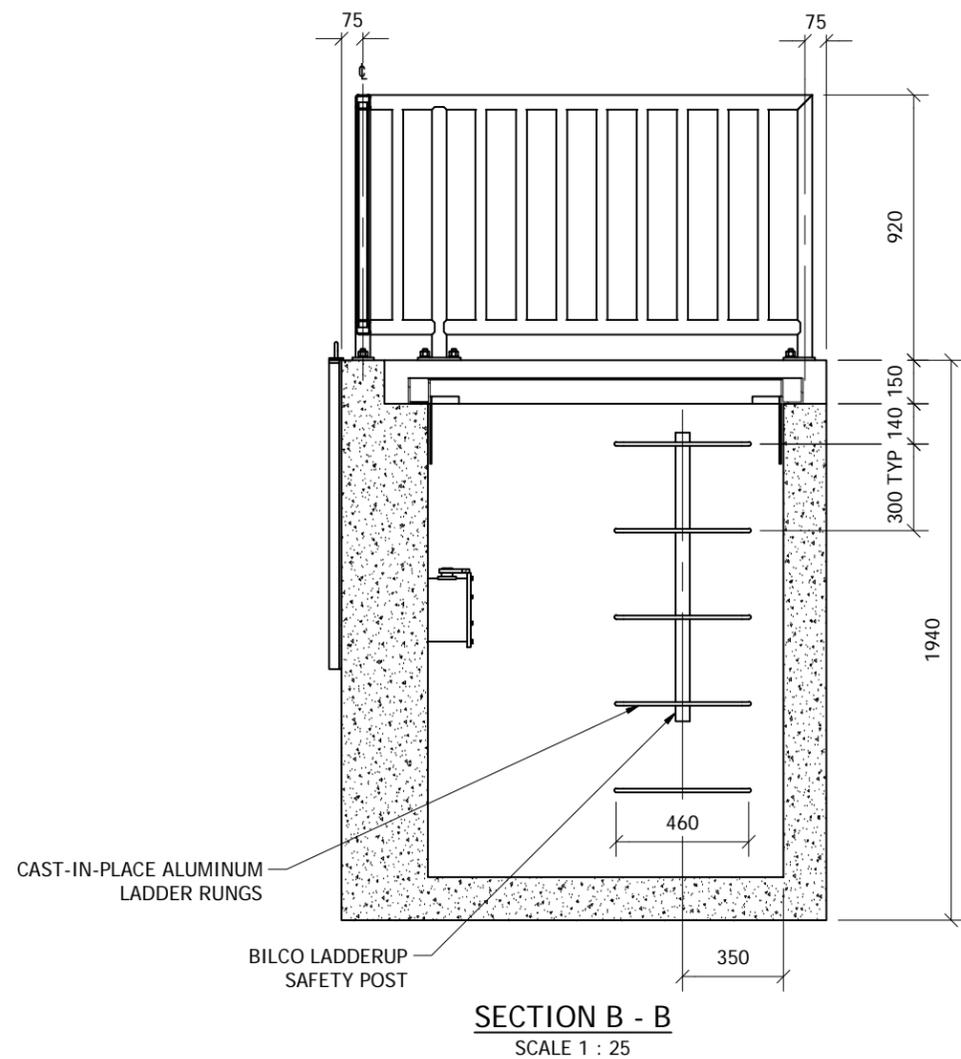
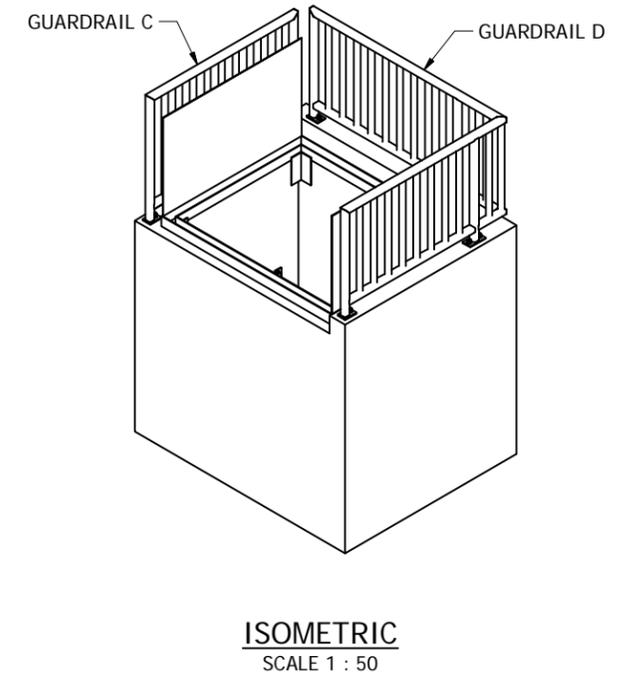
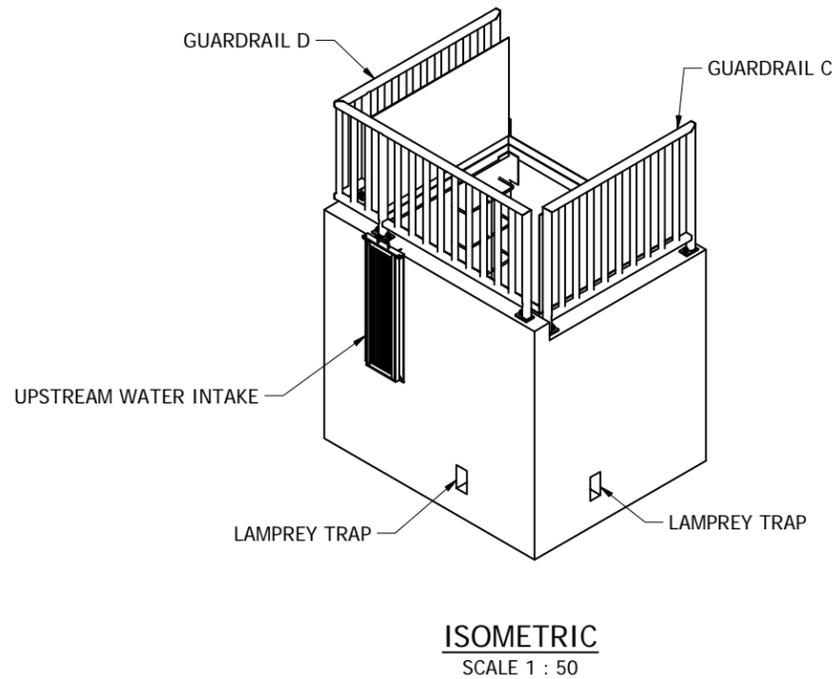
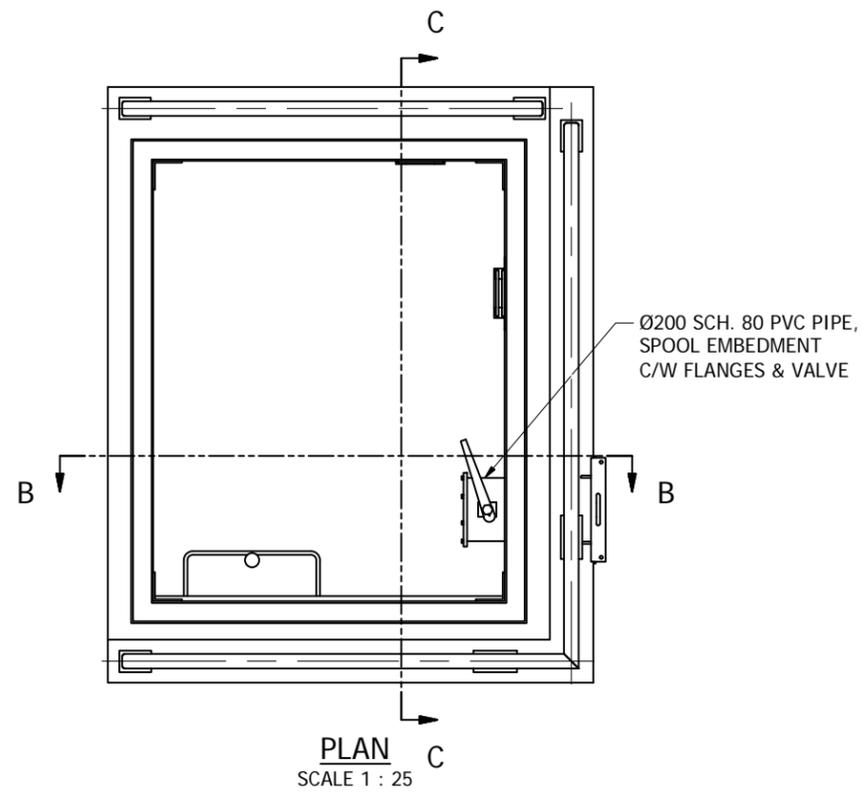
FISHERIES & OCEANS CANADA
SEA LAMPREY CONTROL CENTRE

LITTLE OTTER RIVER
SEA LAMPREY BARRIER TRAP

ELEVATION



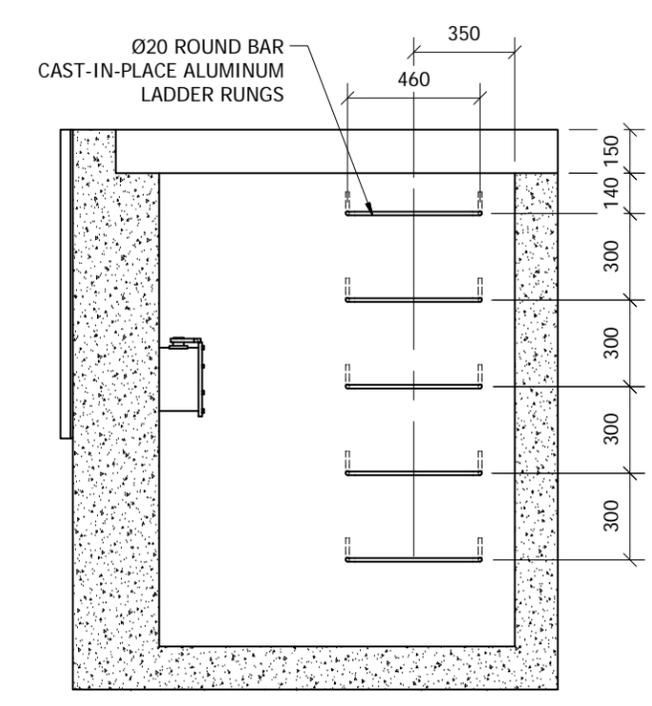
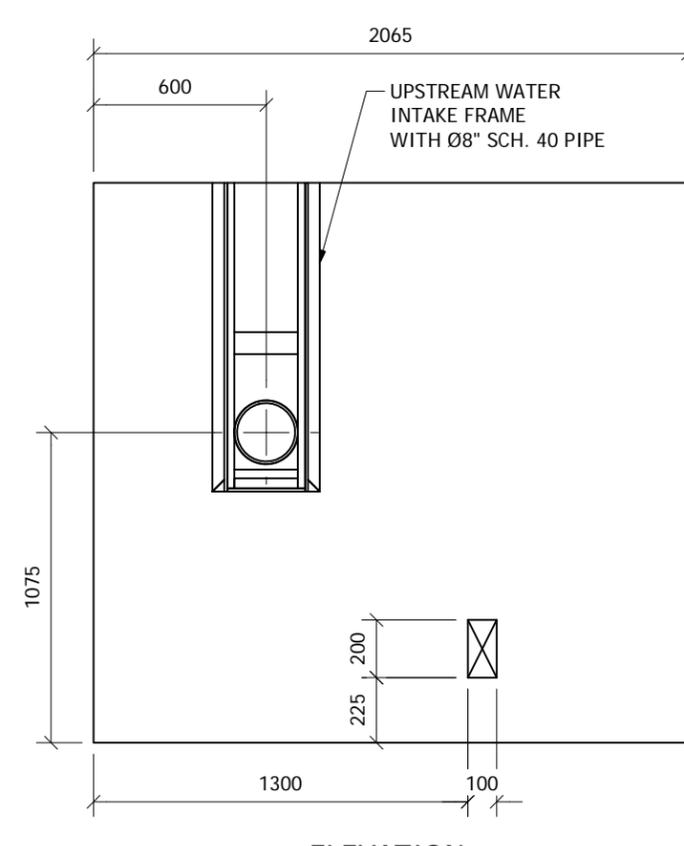
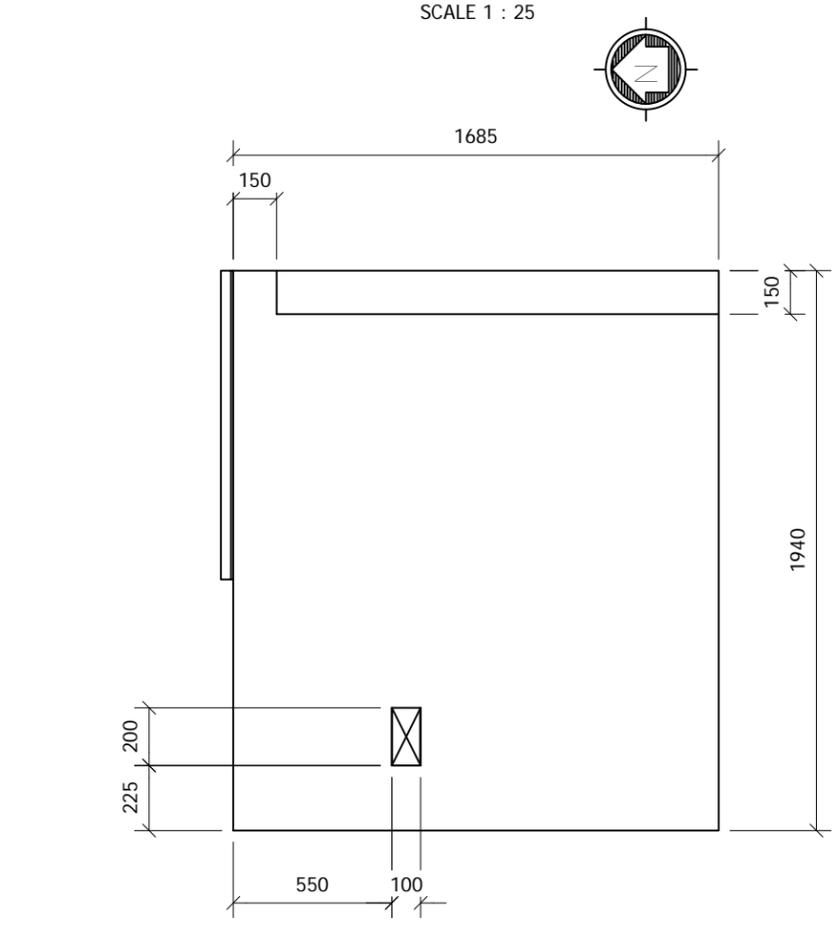
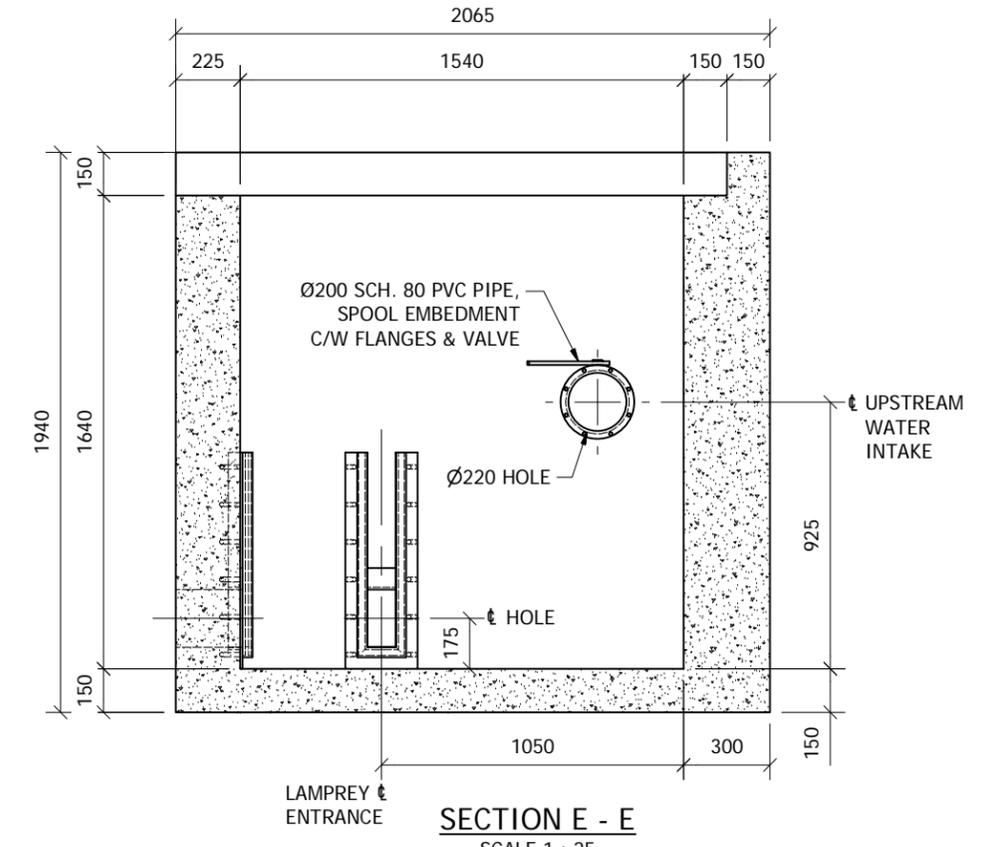
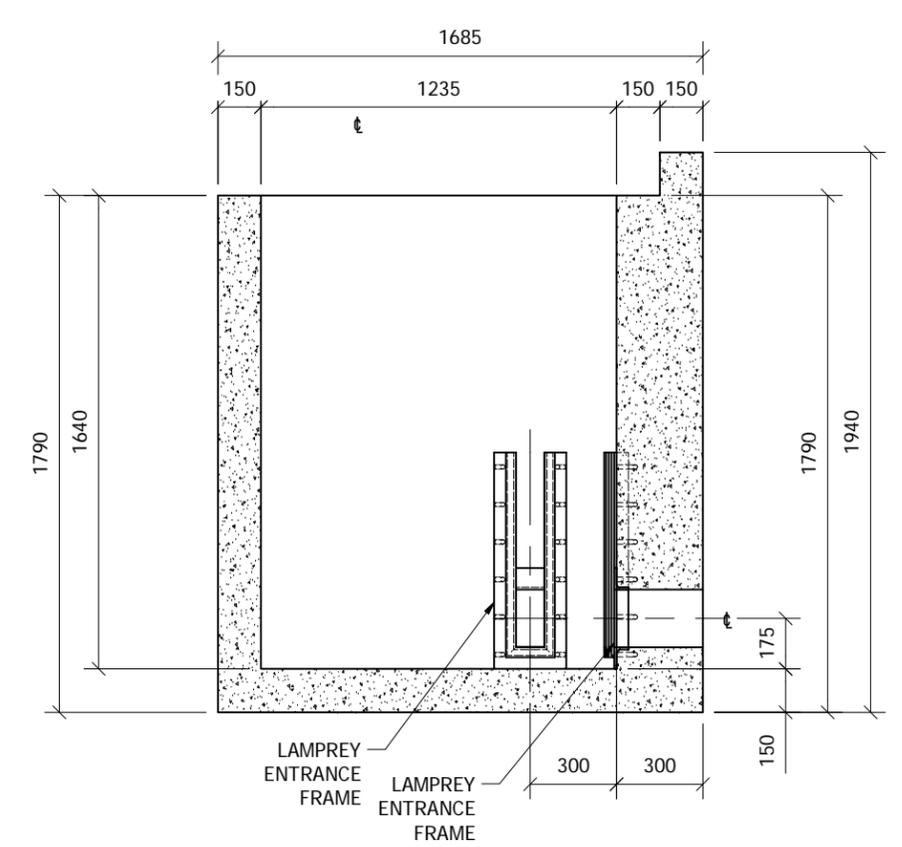
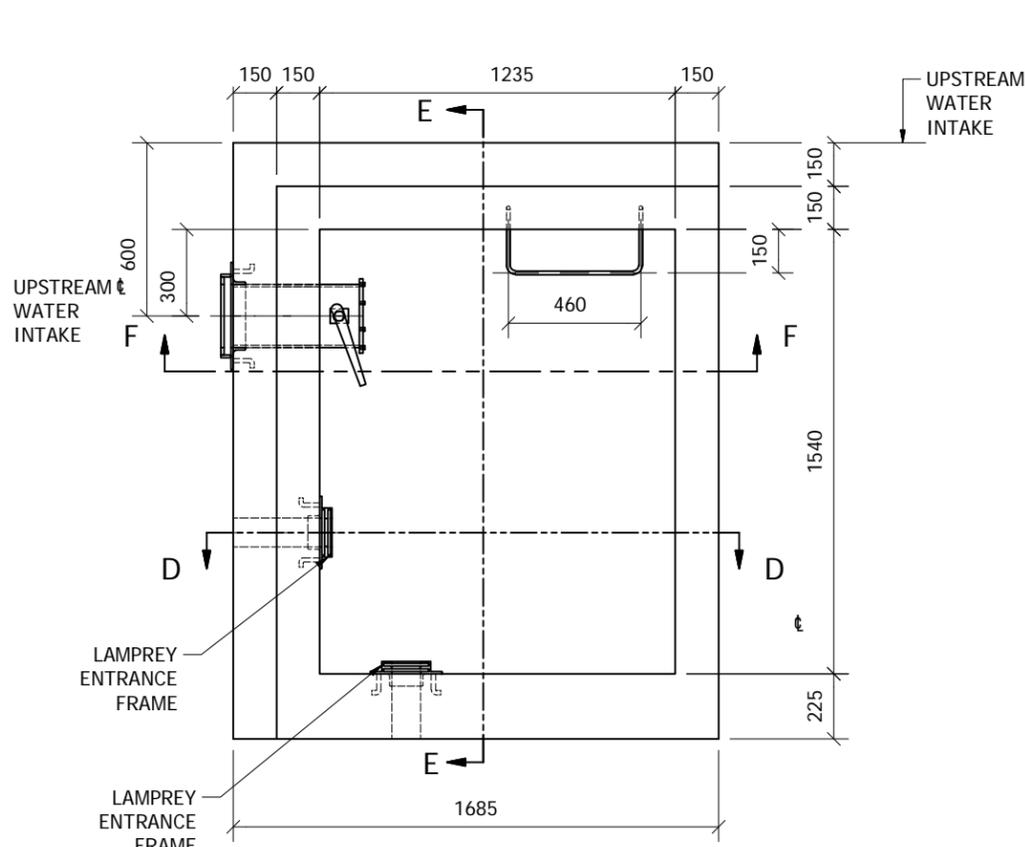
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NOTE:

1. APPROXIMATE WEIGHT OF CONCRETE TRAP ASSEMBLY 8,200 KG

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		FISHERIES & OCEANS CANADA SEA LAMPREY CONTROL CENTRE	
		LITTLE OTTER RIVER SEA LAMPREY BARRIER TRAP CONCRETE TRAP ASSEMBLY	
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		SHEET:	6 OF 11
		REV.	0



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LICENSED PROFESSIONAL ENGINEER
E. ONGARO
100036339
Jan. 31/17
PROVINCE OF ONTARIO

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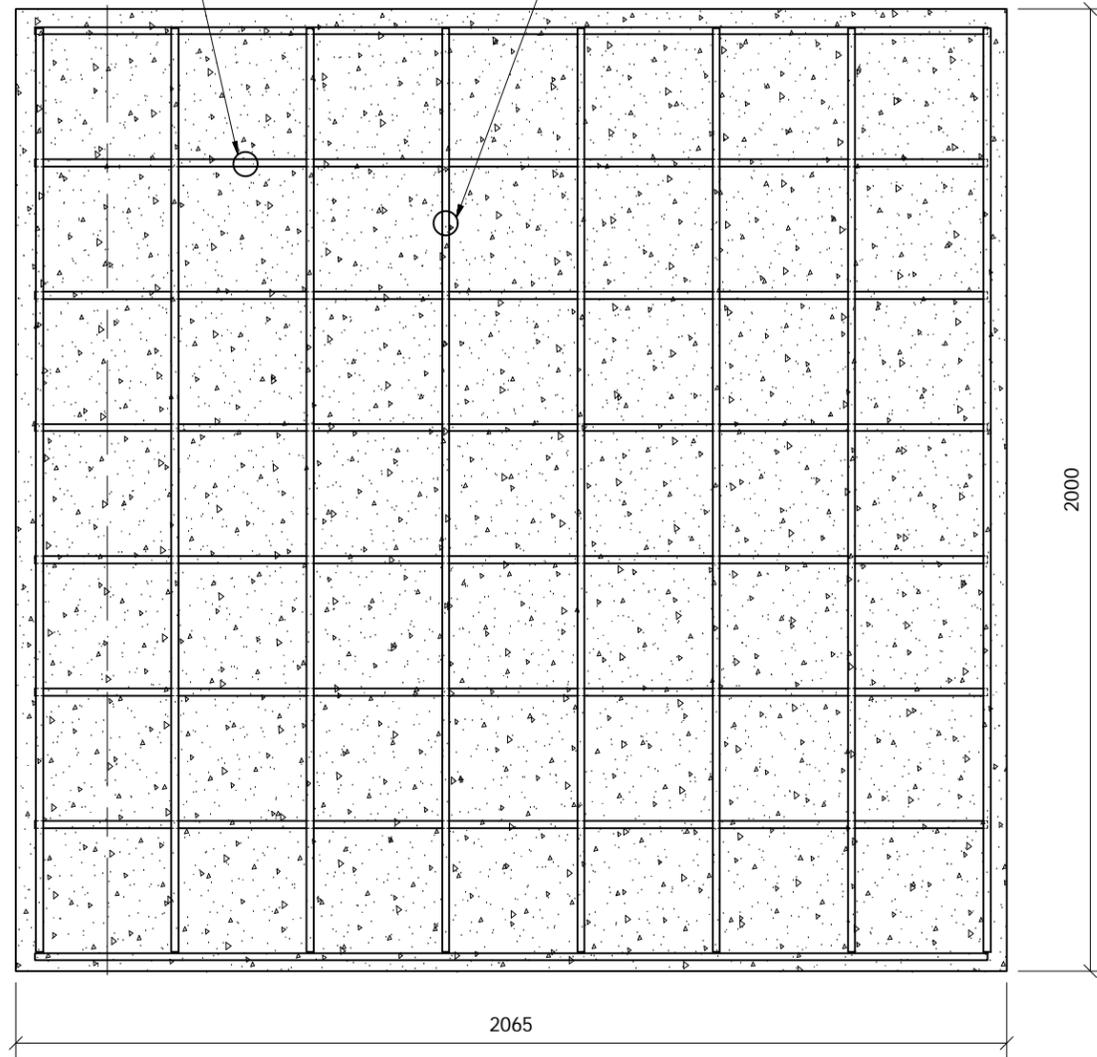
FISHERIES & OCEANS CANADA
SEA LAMPREY CONTROL CENTRE

LITTLE OTTER RIVER
SEA LAMPREY BARRIER TRAP
CONCRETE TRAP DETAILS

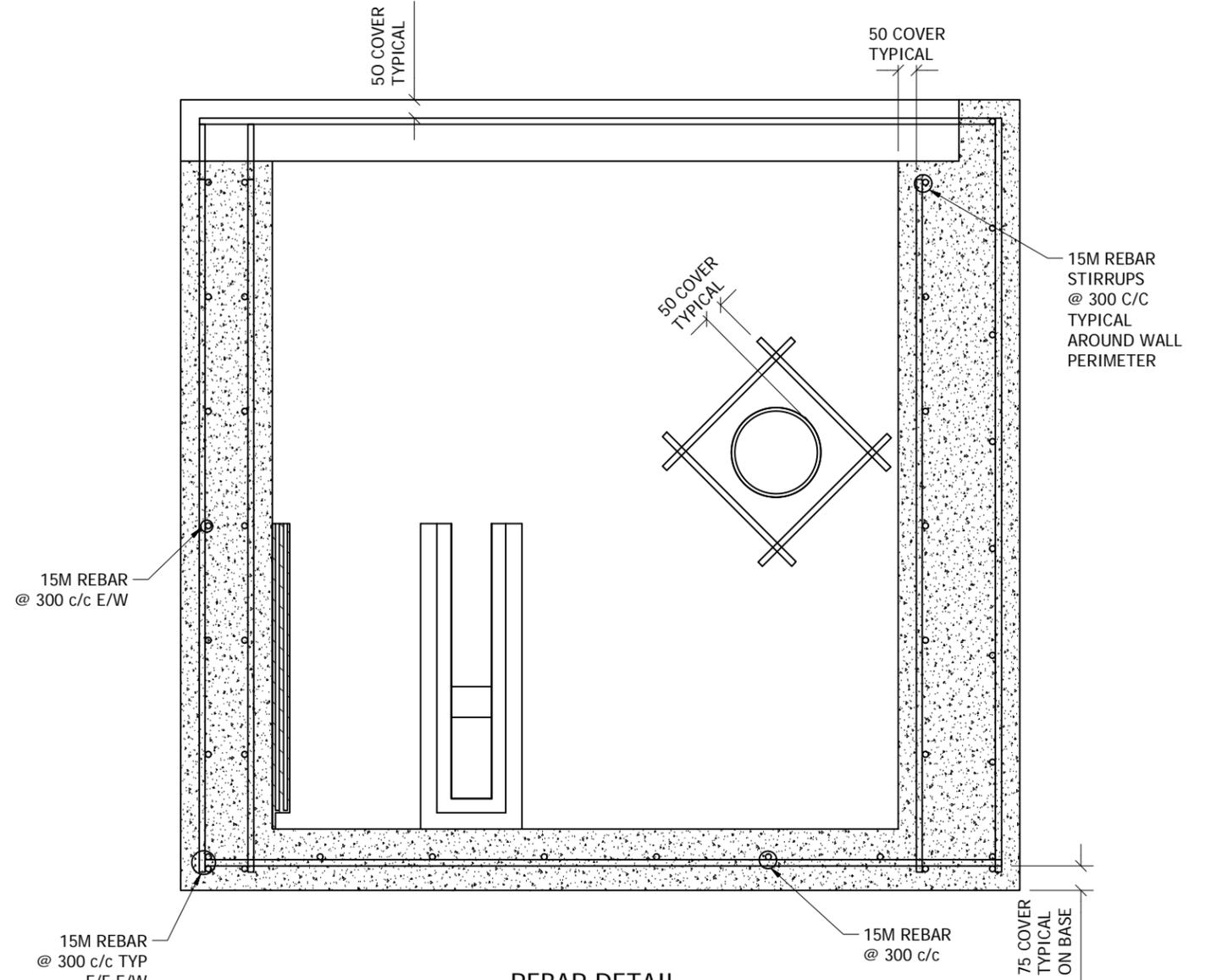
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8-15M REBAR @ 275 C/C
TOP & BOTTOM TYPICAL

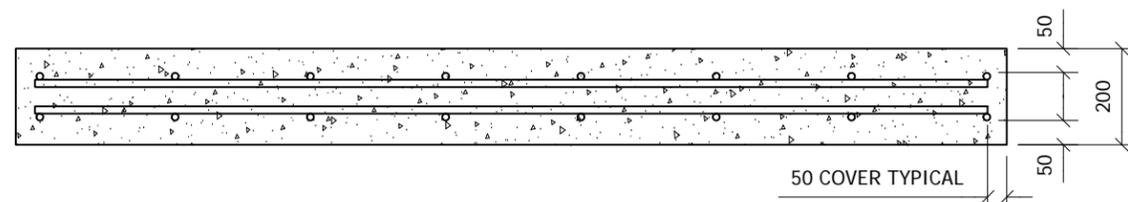
8 - 15M REBAR @ 280 C/C
TOP & BOTTOM TYPICAL



**CONCRETE SLAB
PLAN**
SCALE 1 : 15



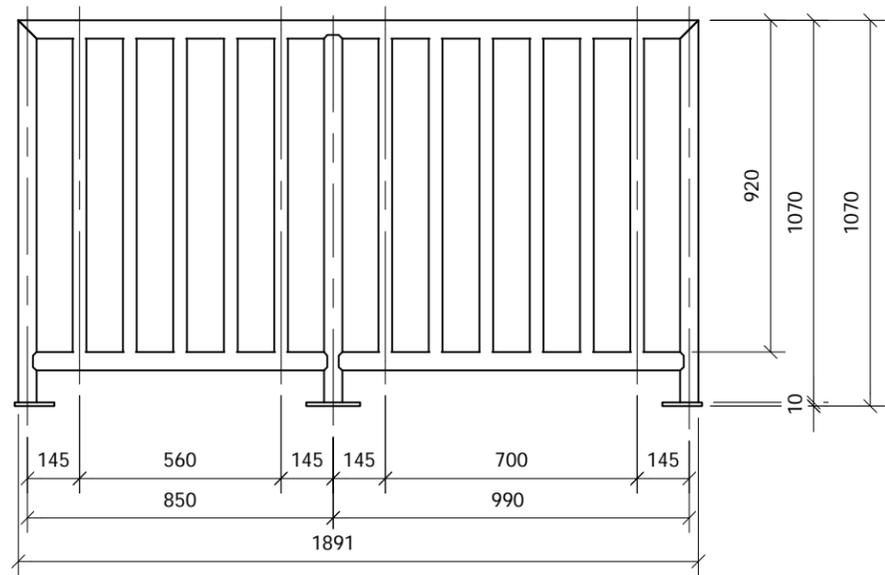
REBAR DETAIL
SCALE 1 : 15



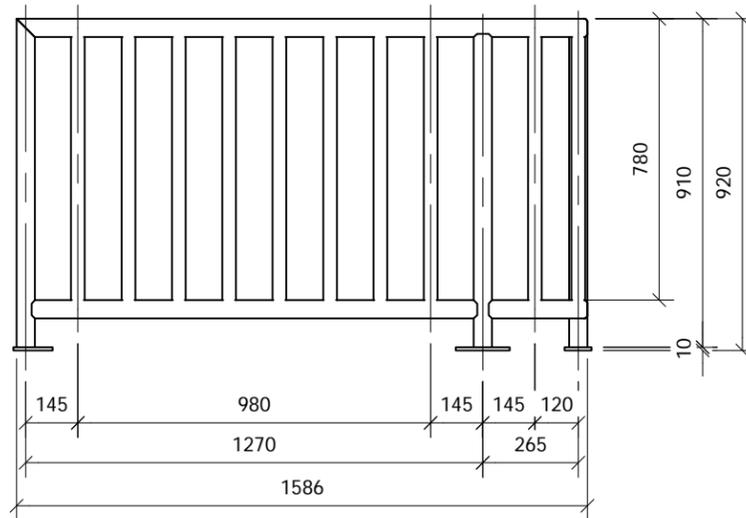
ELEVATION
SCALE 1 : 15

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		FISHERIES & OCEANS CANADA SEA LAMPREY CONTROL CENTRE LITTLE OTTER RIVER SEA LAMPREY BARRIER TRAP REINFORCED CONCRETE DETAILS	

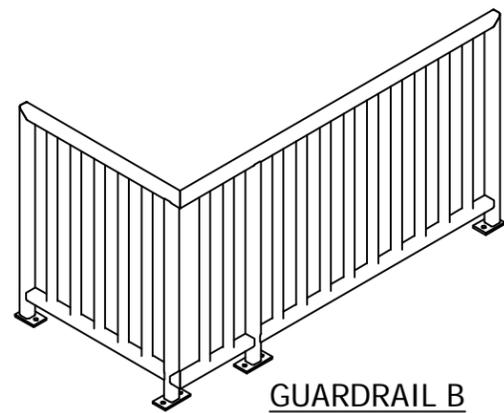
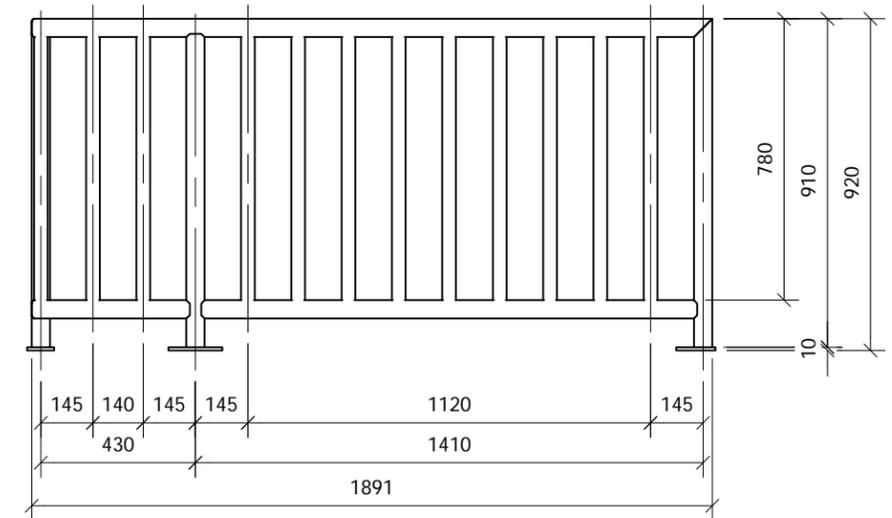
	ISSUED FOR CONSTRUCTION	EO	EO	DATE	Scale : AS SHOWN	SHEET: 8 OF 11
	31/01/2017			04/08/2016	Contract No.	Drawing No.
	Rev. No. Date	Description of Revision	By	App.	Checked By: EO	2568-16
				Approved By:		REV. 0



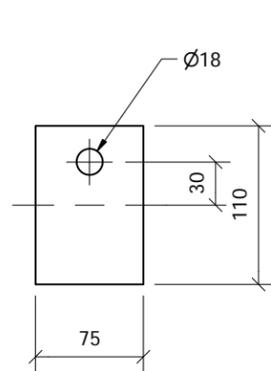
GUARDRAIL A
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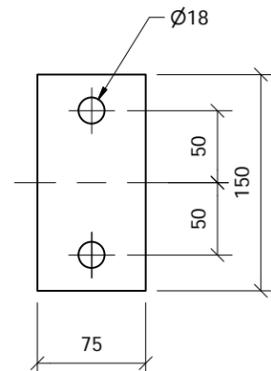
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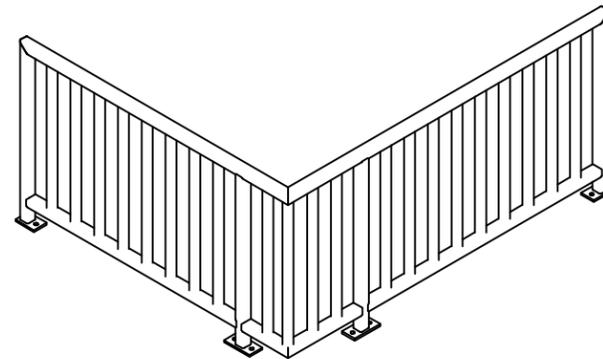
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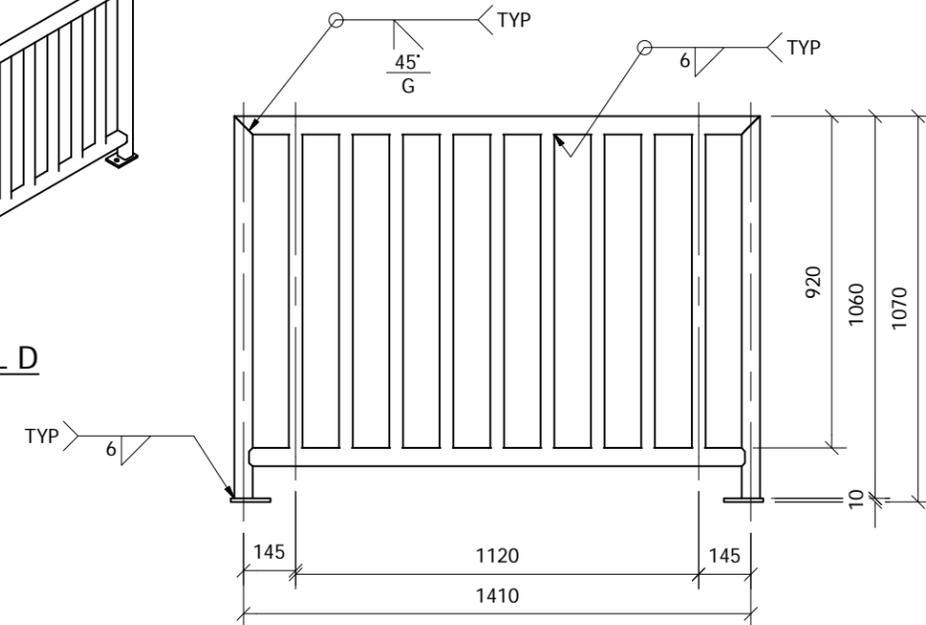
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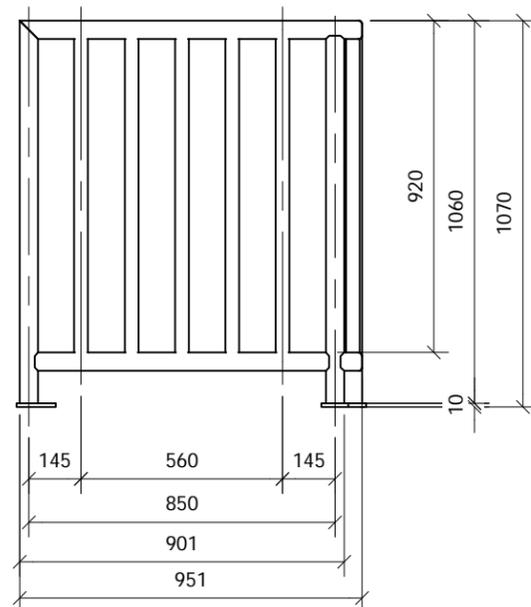
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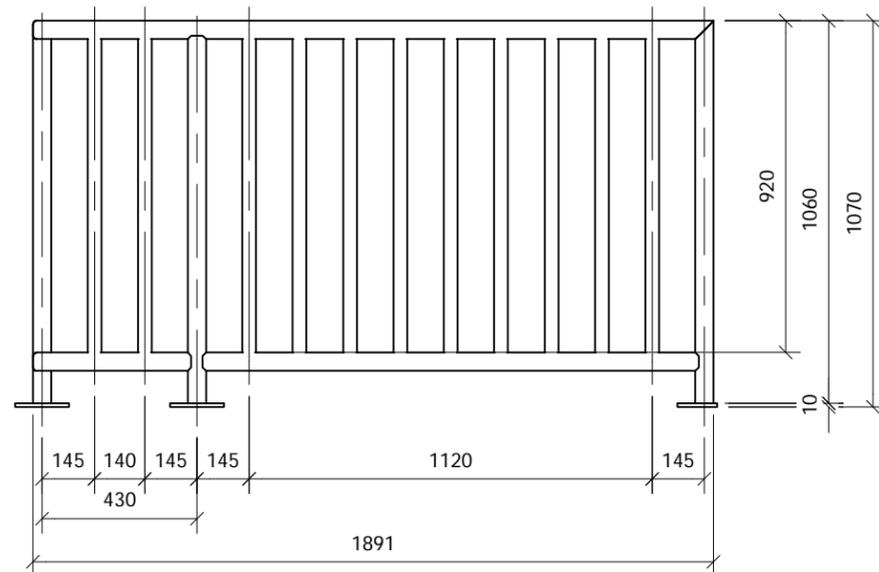
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GUARDRAIL C
SCALE 1 : 20

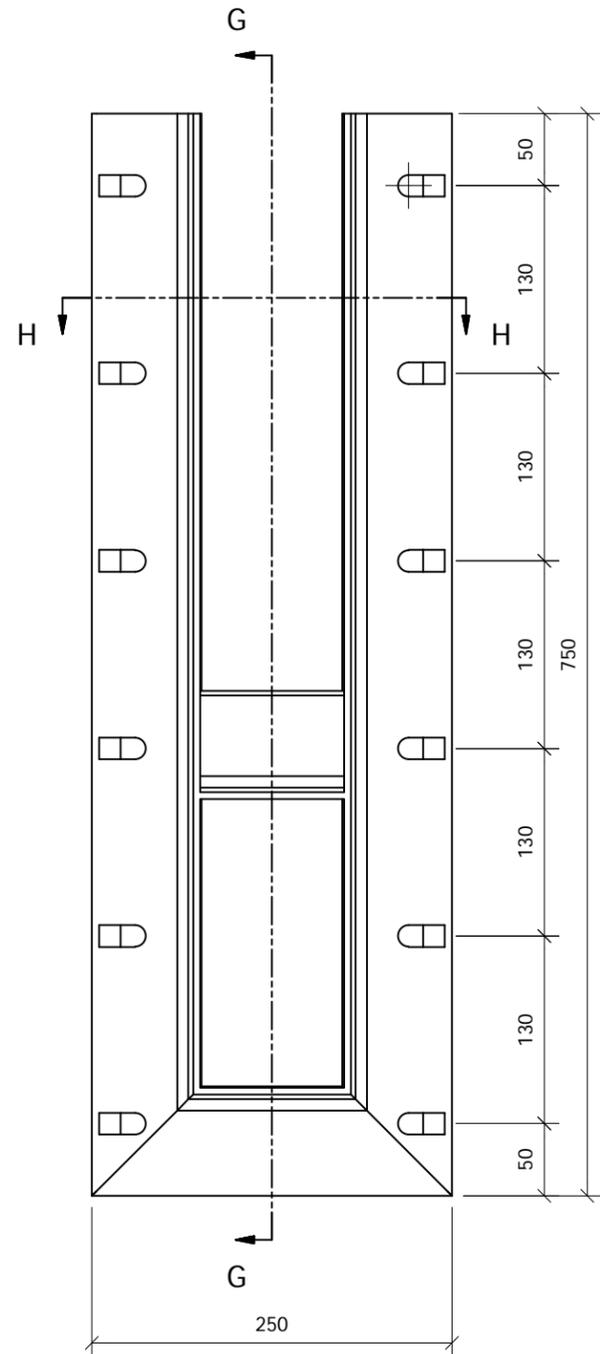


GUARDRAIL B
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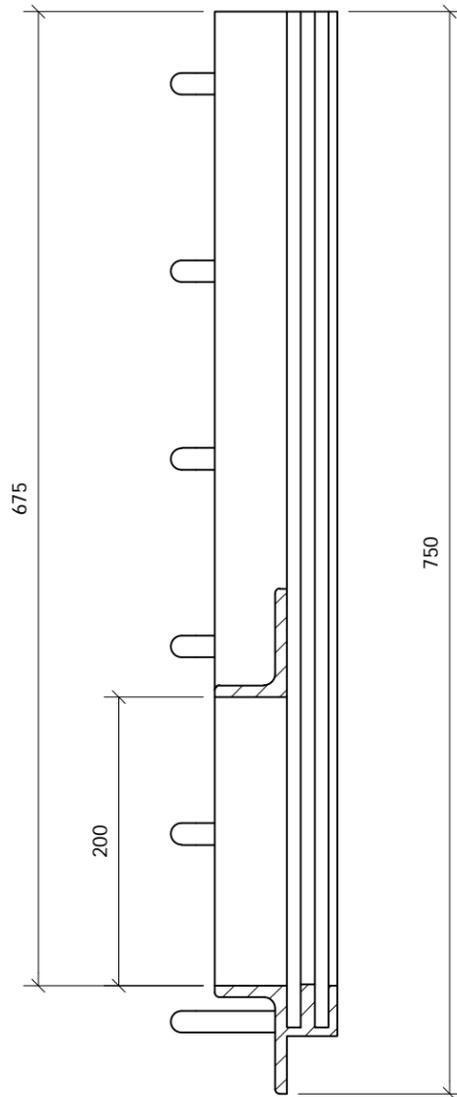


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Scale : AS SHOWN	SHEET: 9 OF 11		

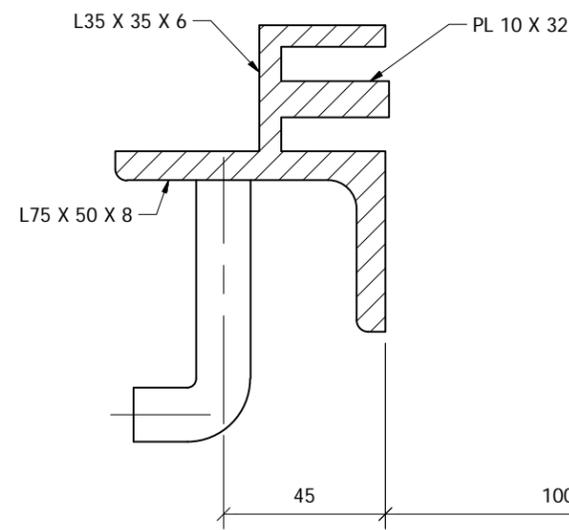
31/01/2017	ISSUED FOR CONSTRUCTION	EO	EO	DATE	Scale : AS SHOWN	SHEET: 9 OF 11
Rev. No.	Description of Revision	By	App.	Drawn By:	Contract No.	Drawing No.
Date				CM	2568-16	2568-16-G-009
				Checked By:		
				EO		
				Approved By:		
						REV.
						0



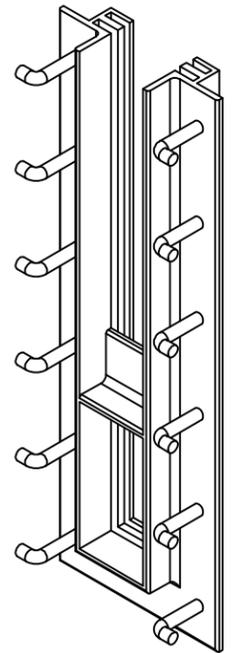
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SCALE 1 : 5



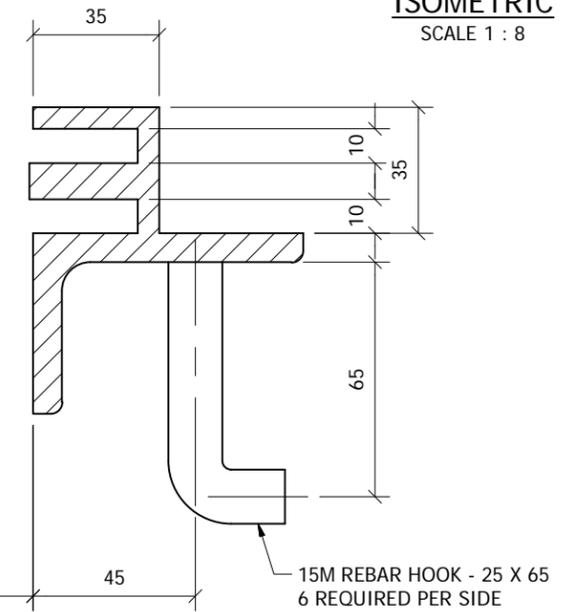
SECTION G - G
SCALE 1 : 5



SECTION H - H
SCALE 1 : 2



ISOMETRIC
SCALE 1 : 8



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	Date	Description of Revision		31/01/2017	2568-16	2568-16-G-010

