

Addendum 1

Issue Date: October 9, 2018

Project Name: Regional District of Nanaimo
Coombs-Hilliers Firehall
Water Tanks Replacement

Project Number: 1019-001

This Addendum is an integral part of the Tender Documents for the project referenced above. The following revisions supersede the information contained in the original drawings, specifications or previously issued Addenda. The Tenderer shall acknowledge this addendum by noting the number of Addenda in their submission.

1.0 General:

(No items)

2.0 Tender Documents:

PART 1 - INSTRUCTIONS TO TENDERERS:

- .1 ARTICLE 6. QUERIES/ADDENDA
Add the following: **"If the RDN determines that an addendum is required for this TENDER, the addendum will be posted on the RDN and BC Bid websites. Each addendum will be incorporated into and become part of the TENDER. No amendment of any kind to the TENDER is effective unless it is contained in a written addendum issued by the RDN. It is the sole responsibility of the Bidder to check and ensure any and all addendums are included prior to submitting their final Tender submission."**
- .2 ARTICLE 9. TENDER PRICE
Add: **"All prices are to be in Canadian dollars"**
- .3 ARTICLE 13. SCHEDULE OF FORCE ACCOUNT RATES
Delete: **"Force Account rates may be a consideration for award of the contract."**
- .4 ARTICLE 17. SECURITY REQUIREMENTS
In Paragraph 2, Replace: **"...ten (10) calendar days..."** with **"fourteen (14) calendar days..."**
- .5 ARTICLE 19. REVISIONS TO TENDER
Add: **"Letter revisions may also be delivered by by Fax at 250-390-1542 or by e-mail at msquire@rdn.bc.ca. The tenderer is responsible to confirm receipt of any revision that is not hand delivered."**
- .6 Add the following Articles:

ARTICLE 23. FREEDOM OF INFORMATION AND PROTECTION OF PRIVACY ACT

All documents submitted to the RDN will be held in confidence by the RDN, subject to the provisions of the Province of British Columbia's Freedom of Information and Protection of Privacy Act. All contracts require the approval of the appropriate RDN authority prior to award. Where a contract requires the approval of the RDN's Board prior to award, the total price of any Tender and the reason for selecting the successful Tenderer may be released at a regular meeting of the RDN's Board or a committee of the Board.

The RDN reserves the right to release to the public the total price of any Tender, regardless of whether it was identified by the Tenderer as confidential. By submitting a Tender, each Tenderer consents to the release of the total price and, where applicable, information disclosable under the Act that is relevant to the selection of the successful Tenderer, in order to provide transparency in relation to expenditures of this type.

ARTICLE 24. NO CLAIM FOR COMPENSATION

Except as expressly and specifically permitted in these Instructions to Tenderers, no Tenderer shall have any claim for any compensation of any kind whatsoever, as a result of participating in

the tender, and by submitting a bid each Tenderer shall be deemed to have agreed that it has no claim.

ARTICLE 25. PREPARATION COSTS

The submission of a Tender constitutes the agreement of the Tenderer to be solely responsible for any and all costs and expenses incurred by it in preparing and submitting its Tender, including any costs incurred by the Tenderer after the Tender Closing. Tenderers are solely responsible for all costs to prepare their Tender and Contract documents.

ARTICLE 26. SOLICITATION

The Tenderer may not make any representations or solicitations to any director, officer or employee of the RDN with respect to the Tender either before or after submission of the Tender except as provided herein. If any director, officer, employee, agent sub-Tenderer, supplier or other representative of the Tenderer communicates with any director, officer or employee of the RDN in connection with this Invitation to Tender about this Invitation to Tender, other than the contact person named, the RDN shall have the unfettered right, regardless of the nature of the communication, to reject the Tender submitted by the Tenderer.

ARTICLE 27. UTILITIES

Tenderer will need to make their own provisions for power, water and washrooms if needed.

ARTICLE 28. GEOTECHNICAL REPORTS

Any information pertaining to geotechnical conditions and any bore-hole logs that may be furnished by the RDN are matters of general information only. If bore-hole logs are furnished, bore-hole descriptions or logs shall not be interpreted as descriptive of conditions at locations other than those described by the bore-holes themselves. No representation is made as to the accuracy or completeness of any of these reports, and if a Tenderer chooses to rely on such reports, it does so at its own risk.

PART 2 – SUPPLEMENTARY AND SPECIAL CONDITIONS:

.1 2.0 SPECIAL CONDITIONS

.1 DATE OF COMMENCEMENT AND COMPLETION, Replace existing wording with:

“The Work shall commence after the Notice to Proceed and be completed as soon as possible. The Tenderer, in submitting the Tender, agrees that the Work can be completed by the date stated in the Tender Form. Work shall be continuous through to total completion.”

PART 4 – TENDER FORM:

.1 TF-2, Item 9

Replace “Notice of Award” with **“Notice to Proceed”**

.2 TF-2

Add: **“Item 14: We agree to be designated as Prime Contractor for the project per WorkSafeBC OH&S Regulations and have the necessary qualifications and are willing to accept the responsibilities as Prime Contractor for the project.”**

.3 TF-6

Delete Item 4 requirement for a business license

.4 TF-10

Add: **“The work is to be completed by May 17, 2019 or earlier”**

APPENDIX A – DESIGN DRAWINGS:

.1 Replace existing drawings with **Rev. F, dated 09OCT18 (attached)**

APPENDIX B – SPECIFICATIONS – PAY ITEM DESCRIPTIONS:

.1 2.0 PUMP, PIPING AND HYDRANT, .1 150 PVC DR18 Waterline
Remove bacteriological testing requirement from paragraph 2

- .2 2.0 PUMP, PIPING AND HYDRANT, .3 Pump Station
Remove "...with integral fuel tank..." from the requirements. The diesel pump will no longer be used, and an electrical driver and pump is now specified. The electrical pump system information is attached to this addendum.
- .3 3.0 WATER STORAGE TANKS, .1 Supply and Install Water Tanks.
Add: "Tanks are to be single-wall polyethylene with a 1.9 Specific Gravity rating"

3.0 Clarifications:

- .1 The owner requires the existing water tanks remain in service until the new system is ready for use.

4.0 Questions and Answers:

- Q1: What is the hydrant specification and bury requirements
- A1: Terminal City or AVK are acceptable. Hydrant feed line to have minimum 1m of cover.
- Q2: On the Tank Detail Item #8 please confirm if the quantity is 4 or 5?
- A2: Please see attached drawings
- Q3: On the Tank Detail Item #9 please confirm style and Spec?
- A3: Please see attached drawings
- Q4: Is bacteriological testing required for the water piping?
- A4: No bacteriological testing is required. Disinfection and flushing of the pipes is required.
- Q5: Is overexcavation beyond the design depths expected?
- A5: Based on the geotechnical report, overexcavation is not expected. If overexcavation is needed due to poor foundation materials, the costs for excavation will be paid at tendered force account rates and additional fill materials will be paid at tendered unit rates.
- Q6: Is the existing level sensor and water fill control system to be reused?
- A6: A new pressure transducer and control panel are to be provided and installed, complete with a compatible water fill control valve. Specifications for these items will be provided in a future addendum.
- Q7: Are the existing underground service locations known?
- A7: These locations are not known. Contractor should expect to locate these as part of their work.
- Q8: The existing steel tanks may become damaged during removal. Is there any requirement for these to remain undamaged?
- A8: It is understood that damage may occur. Additional information regarding expected future use of the existing tanks will be provided in a future addendum.
- Q9: Will a lifting procedure for the existing steel tanks be provided?
- A9: No lifting procedure will be provided

5.0 Attachments:

- Specifications for the electrical pump system to be supplied.

END ADDENDUM 1 (total 3 pages plus attachmen and PDF Tender Drawings)

Per: _____

Charles D. Ramos, P.Eng

PACO Series VL - In-Line Centrifugal Pump, Close Coupled

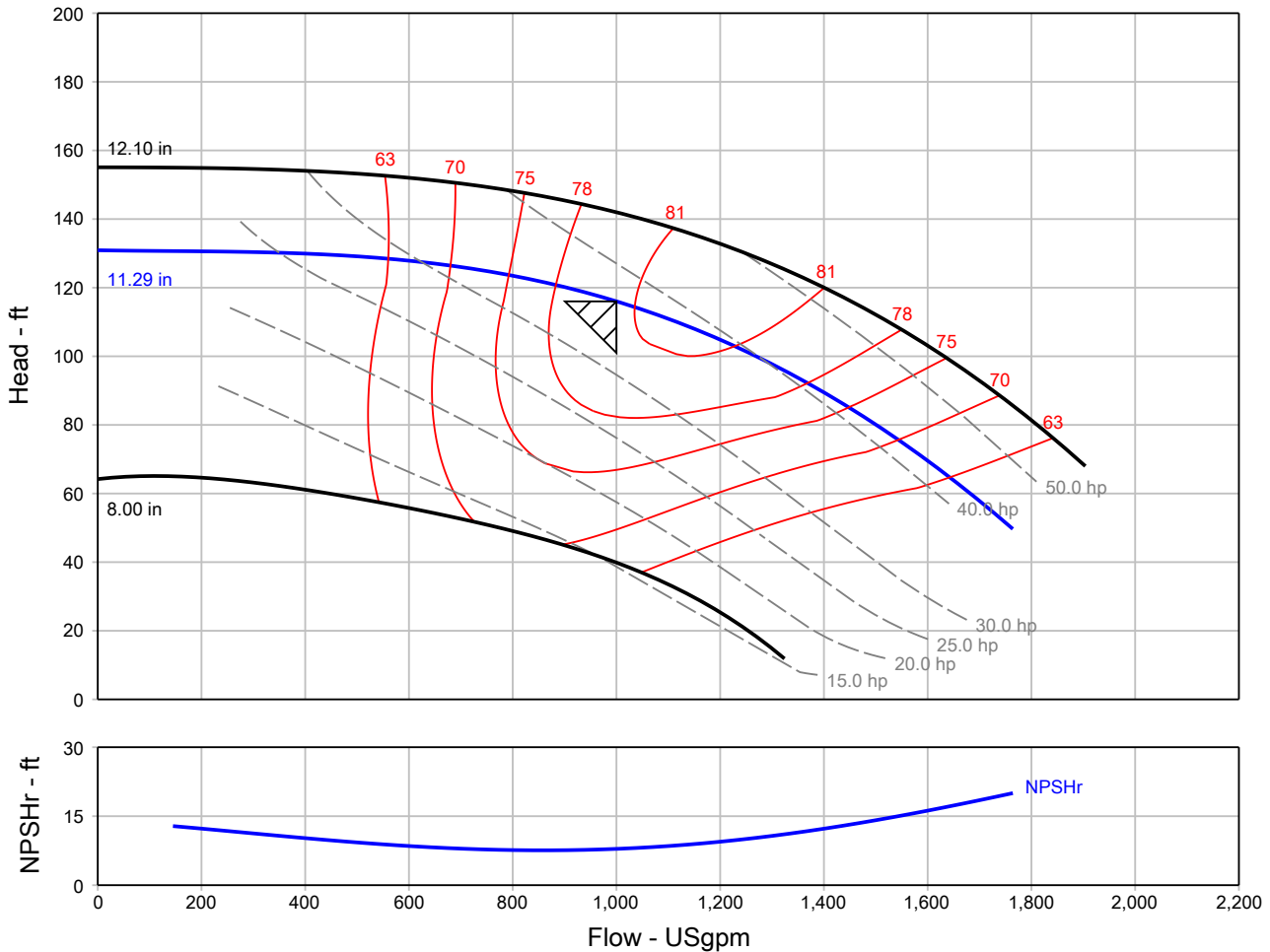
PROJECT 684145	UNIT TAG 001	QUANTITY 1
REPRESENTATIVE ENGINEER	SERVICE Booster	DATE
CONTRACTOR	SUBMITTED BY	DATE
	APPROVED BY	DATE
	ORDER #	DATE



VL 60125
1780 rpm

Part Number N/A

Conditions of Service		Pump Data		Motor Data	
Flow	1,000.0 USgpm	Impeller Diameter	11.29 in	Motor HP	40 HP
Head	116.0 ft	Max. Imp. Dia.	12.10 in	BHP	36.37
Liquid	Cold Water	Min. Imp. Dia.	8.00 in	Enclosure	TEFC
Temperature	68.00 deg F	Efficiency	80.53 %	Voltage	208-230/460 V
NPSHr	7.89 ft	Suction	6 in.	Phase	3 Phase
Viscosity	1.00 cP	Discharge	6 in.	Cycle	60
Specific Gravity	1.000 SG			Frame Size	324JM

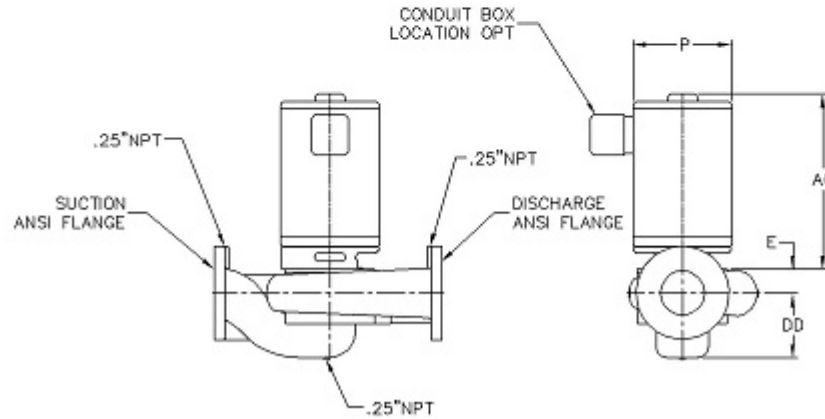


PACO Series VL - In-Line Centrifugal Pump, Close Coupled

Do not install pump larger than 215JM in vertical piping.

Pressure and drain tap locations are approximate.

Suction and discharge flanges, are cast per 250# ANSI thickness and diameter. All flanges are flat face. Some holes may be threaded because of nut clearances.



NOT FOR CONSTRUCTION, unless certified and referenced on order

Units	Frame	S x D	AG (Max)	DC	DD	DE	E	P (Max)	X	YY	Weight
inches	324JM	6 X 6	30.00	8.13	10.00	11.13	2.72	17.00	15.00	15.00	TBD

REGIONAL DISTRICT OF NANAIMO

COOMBS-HILLIERS FIRE DEPARTMENT NEW WATER TANKS

GENERAL NOTES:

1. ALL WORK AND MATERIALS ARE TO BE AS DESCRIBED IN THE CURRENT MMCD PLATINUM EDITION OR AS OTHERWISE APPROVED BY THE ENGINEER.
2. CONNECTION TO, OR ALTERATION OF, EXISTING RDN-OWNED UTILITIES, REQUIRES AUTHORIZATION BY THE RDN ENGINEER.
3. THE ENGINEER SHALL BE NOTIFIED 48 HOURS PRIOR TO COMMENCEMENT OF WORK.
4. CONTRACTOR TO COMPLY WITH ALL APPLICABLE MINISTRY OF ENVIRONMENT REQUIREMENTS AT ALL TIMES DURING CONSTRUCTION.
5. CONTRACTOR TO CONFIRM LOCATION OF EXISTING UTILITIES AT ALL CROSSINGS AND CONNECTIONS AND REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO CONSTRUCTION.
6. ADJUST ALL MANHOLES, WATER VALVES, HYDRO VAULTS, ETC. TO MATCH NEW CONSTRUCTION.
7. ALL LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY AND SHOULD BE CONFIRMED BY USE OF A PIPE LOCATOR AND MANUAL DIGGING. INFORMATION ON EXISTING STRUCTURES AND UTILITIES IS BASED ON ESTIMATED CONSTRUCTION EXTENTS, AND IS APPROXIMATE ONLY.
8. ALL DIMENSIONS ARE IN MILLIMETERS, UNLESS NOTED OTHERWISE.
9. CONTRACTOR TO MEASURE AND CONFIRM ALL OFFSETS IN THE FIELD PRIOR TO CONSTRUCTION. ANY DISCREPANCIES ARE TO BE REVIEWED WITH THE ENGINEER.

WATER SYSTEM NOTES:

1. ALL WATER PIPING TO BE SCHED. 10 STAINLESS STEEL WITH FLANGED JOINTS, UNLESS NOTED OTHERWISE.
2. WATER TANKS TO BE 10,000 U.S. GALLON STORAGE TANK PROVIDED BY BARR PLASTICS
3. SEISMIC RESTRAINT SYSTEM TO BE DESIGNED, FURNISHED, AND INSPECTED BY TANK SUPPLIER'S ENGINEER

CONCRETE NOTES:

1. ALLOWABLE BEARING PRESSURE: 150 kPa, AS DETERMINED BY LEA GEOTECHNICAL ASSESSMENT, COMPLETED OCTOBER 2017
2. CONCRETE MATERIALS, QUALITY, MIXING, PLACING, FORMWORK, AND OTHER CONSTRUCTION PRACTICES TO CONFORM TO CSA-A23.1
3. SUPPLY CONTROLLED CONCRETE IN ACCORDANCE WITH CSA-A23.1 WITH PROPERTIES NOTED BELOW:
 - a) CLASS OF EXPOSURE: C-1
 - b) MINIMUM 28-DAY COMPRESSIVE STRENGTH: 35MPa
 - c) MAXIMUM AGGREGATE SIZE: 20mm
 - d) AIR CONTENT CATEGORY: 1
 - e) MAXIMUM WATER/CEMENT RATIO: 0.40
 - f) CEMENT TYPE: GU
4. NOTIFY ENGINEER 48 HOURS PRIOR TO CONCRETE PLACEMENT FOR REVIEW OF REINFORCEMENT AND FORMWORK
5. FIELD AND LABORATORY TESTING OF CONCRETE TO BE COMPLETED BY A THIRD PARTY TESTING AND INSPECTION AGENCY APPROVED BY AND RESPONSIBLE TO THE ENGINEER. TESTING AGENCY SHALL BE CERTIFIED TO CSA-A283. ONE SET OF 3 CYLINDERS SHALL BE MADE FOR EACH DAY'S POUR. COPIES OF TEST RESULTS TO BE SENT TO THE ENGINEER AND CONTRACTOR. CONTRACTOR TO PAY FOR TESTS.
6. COLD WEATHER REQUIREMENTS FOR PLACING CONCRETE AS DEFINED BY CAN/CSA 23.1, CLAUSE 7.4.2.5 MUST BE MET.
7. HOT WEATHER REQUIREMENTS FOR PLACING CONCRETE AS DEFINED BY CAN/CSA 23.1, CLAUSE 7.4.1.8.1 MUST BE MET.
8. REINFORCEMENT STEEL TO CONFORM TO CSA-G30.18, GRADE 400
9. REINFORCEMENT IS NOT TO BE WELDED, UNLESS SPECIFICALLY APPROVED BY THE ENGINEER
10. CLEAR CONCRETE COVER TO REINFORCEMENT TO MEET THE FOLLOWING:
 - a) CAST AGAINST FORMWORK OR EXPOSED SURFACE OF SLAB: 40mm
 - b) CAST AGAINST SOIL: 50mm
11. REINFORCEMENT SPLICES TO CONFORM TO THE FOLLOWING TABLE:

REINFORCEMENT SPLICES				
TO BE READ IN CONJUNCTION WITH CONCRETE DESIGN NOTES:				
1. THIS TABLE IS BASED ON NORMAL-WEIGHT CONCRETE $f'_c = 35 \text{ MPa}$ AND ON REINFORCING STEEL $F_y = 400 \text{ MPa}$				
2. FOR STANDARD EMBEDMENT DEPTH INTO CONCRETE, DIVIDE BASIC TENSION LAP SPlice NUMBERS BY 1.3				
BAR SIZE	COMPRESSION SPlice (mm)	TENSION SPlice (mm)		
		VERTICAL OR BOTTOM HORIZONTAL BARS	TOP HORIZONTAL BARS	
10M	300	400	500	
15M	450	600	750	
20M	600	800	1000	
25M	750	1200	1525	
30M	900	1450	1825	
35M	1025	1700	2150	

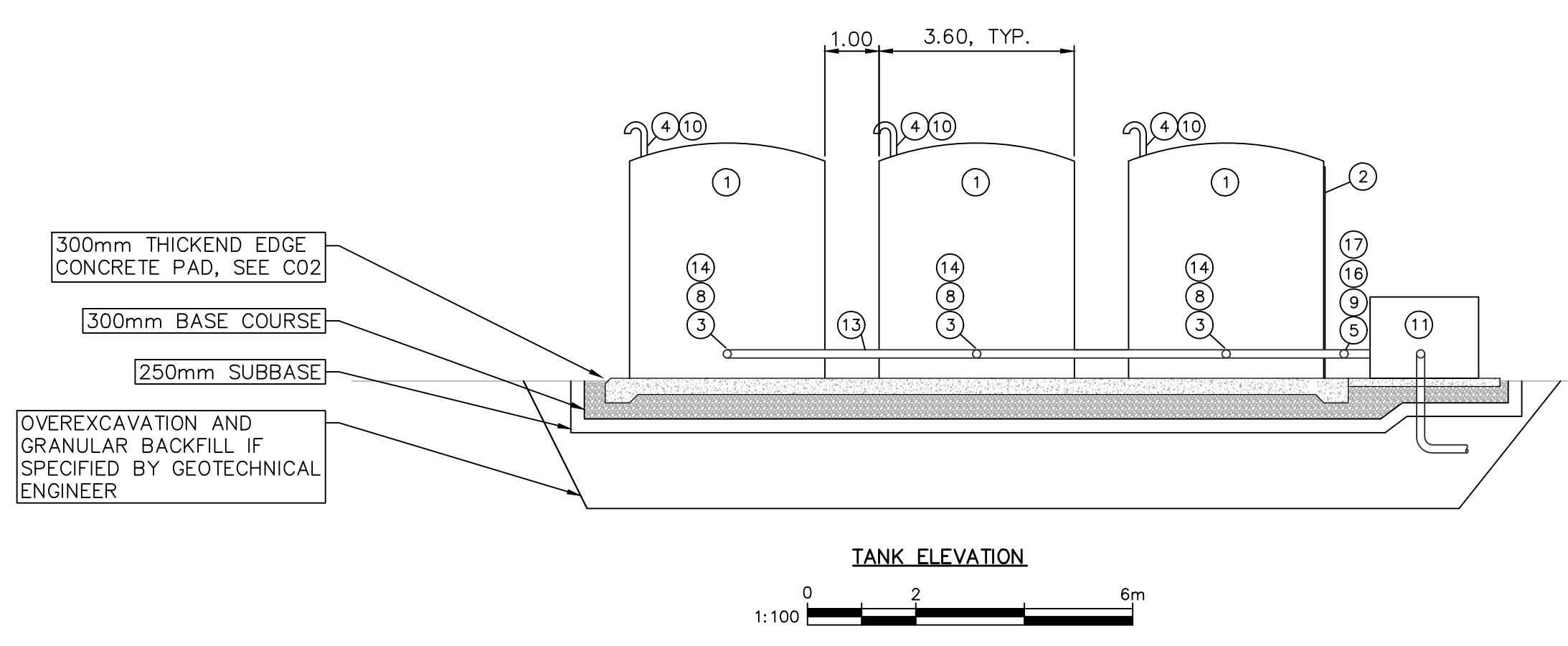
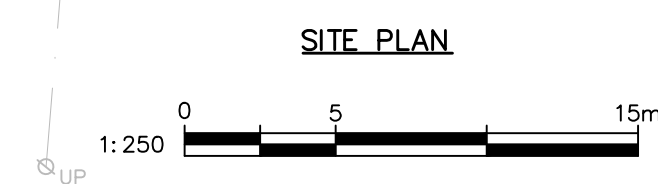
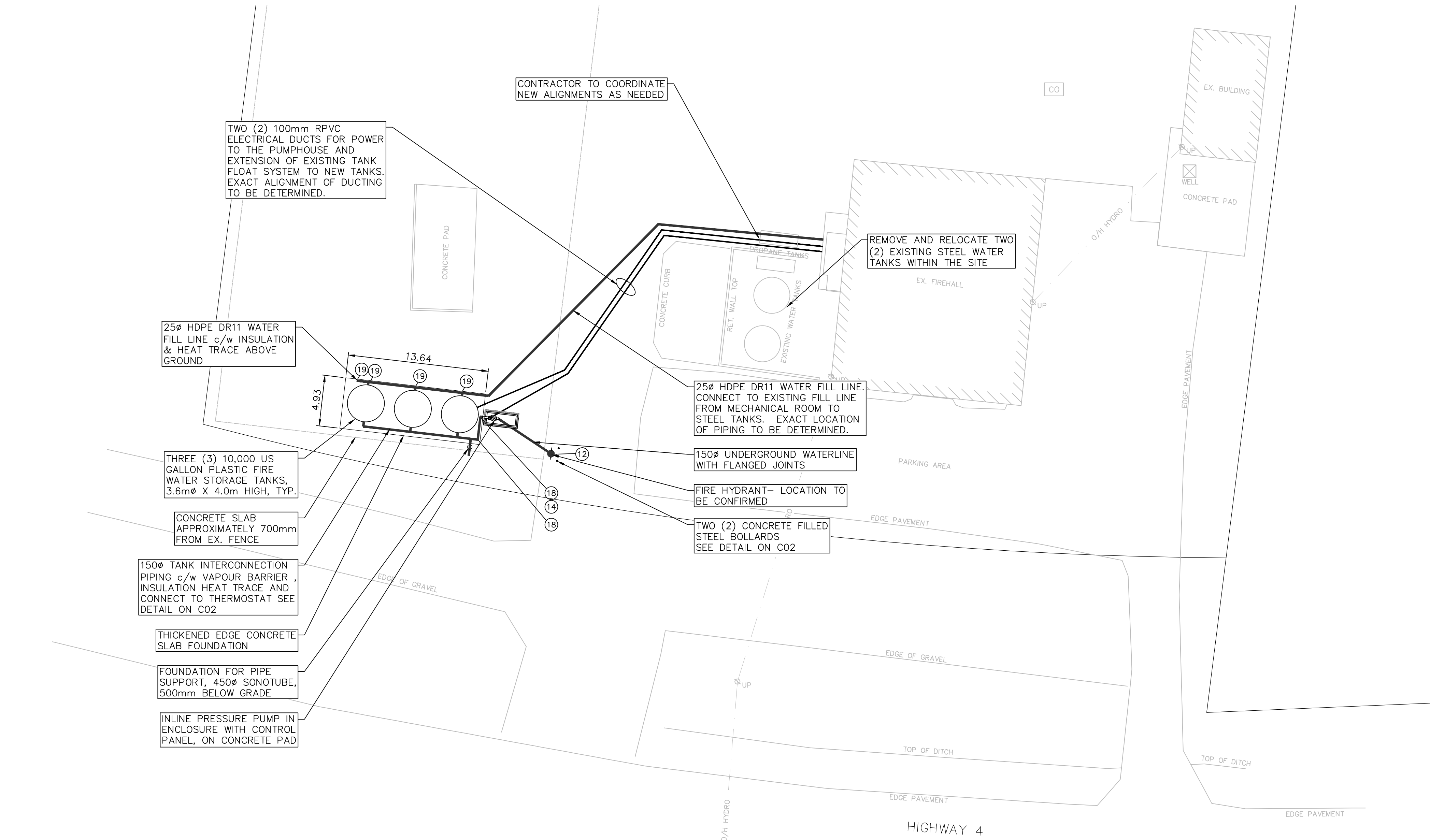
12. OPENINGS IN SLABS: PROVIDE TWO 15M BARS EACH SIDE, ONE EACH FACE, EXTENDING 600mm PAST THE OPENINGS, PLUS TWO 15M DIAGONAL BARS AT EACH CORNER, EACH FACE 1200mm LONG UNLESS NOTED OTHERWISE.
13. DO NOT CUT REINFORCEMENT AT OPENINGS WHERE IT CAN BE SPREAD CONTINUOUS AROUND OPENING.
14. ALL REINFORCEMENT TO BE SUPPORTED AT 900mm MAXIMUM SPACING
15. DESIGN, FABRICATION, ERECTION, AND OTHER CONSTRUCTION PRACTICES TO CONFORM TO CAN/CSA-S269.3

DRAWING LIST

DRAWING NO.	DRAWING TITLE	REVISION					
		A	B	C	D	E	F
C00	COVER SHEET, GENERAL NOTES, AND DRAWING LIST						x
C01	SITE PLAN						x
C02	DETAILS						x

P:\PROJECTS\1019-001 RDN COOMBS-HILLIER FIRE TANK 04 - DRAWINGS\1019-001-CIVIL DRAWINGS

10.9.2018



EQUIPMENT SPECIFICATION		
ITEM	QTY.	DESCRIPTION
1	3	10,000 USG STORAGE TANK WITH TOP-OPENING HATCH
2	3	25mm PVC SIGHT TUBE
3	3	150mm FLANGE FITTING
4	0	100mm FLANGE FITTING
5	1	100mm SPOOL PIECE WITH COMPATIBLE FITTING
6	3	LADDER ASSEMBLY WITH WELDED LUGS (NOT SHOWN)
7	3	HOT-DIP GALVANIZED SEISMIC RESTRAINT SYSTEM (NOT SHOWN)
8	3	PROCOR 150mm MOLDED SPHERICAL JOINT STYLE 242, c/w 304 SS FLANGES
9	1	SUPPORTED 100mm BALL VALVE
10	3	100mm TOP VENT, PIPING AND GOOSENECK, c/w BIRD AND VERMIN SCREEN
11	1	GRUNDFOS PACO SERIES VL - IN-LINE CENTRIFUGAL PUMP, CLOSE COUPLED
12	1	FIRE HYDRANT ASSEMBLY
13	1	150mm SPOOL PIECE WITH COMPATIBLE FITTINGS
14	4	SUPPORTED 150mm GATE VALVE
15	1	RAYCHEM AMC-F5 FIXED SET POINT THERMOSTAT (WITHIN KIOSK - NOT SHOWN)
16	1	150mm TO 100mm REDUCER
17	1	100mm 90° BEND, SAE 304
18	2	150mm 90° BEND, SAE 304
19	4	25mm BALL VALVE



REV.	DATE	BY	DESCRIPTION	ENG
F	09OCT18	CDR	REVISED	CDR
E	16APR18	CDR	ISSUED FOR REVIEW	CDR
D	13MAR18	CDR	ADDITIONAL DETAILS	CDR
C	16NOV17	CDR	ISSUED FOR REVIEW	CDR
B	04AUG17	RDE	REVISED TANK OPTION	CDR
A	27JUL17	MBR	ISSUED FOR REVIEW	CDR

COOMBS-HILLIERS FIRE DEPARTMENT
WATER STORAGE TANK

COOMBS, BC

DRAWING TITLE:
SITE PLAN

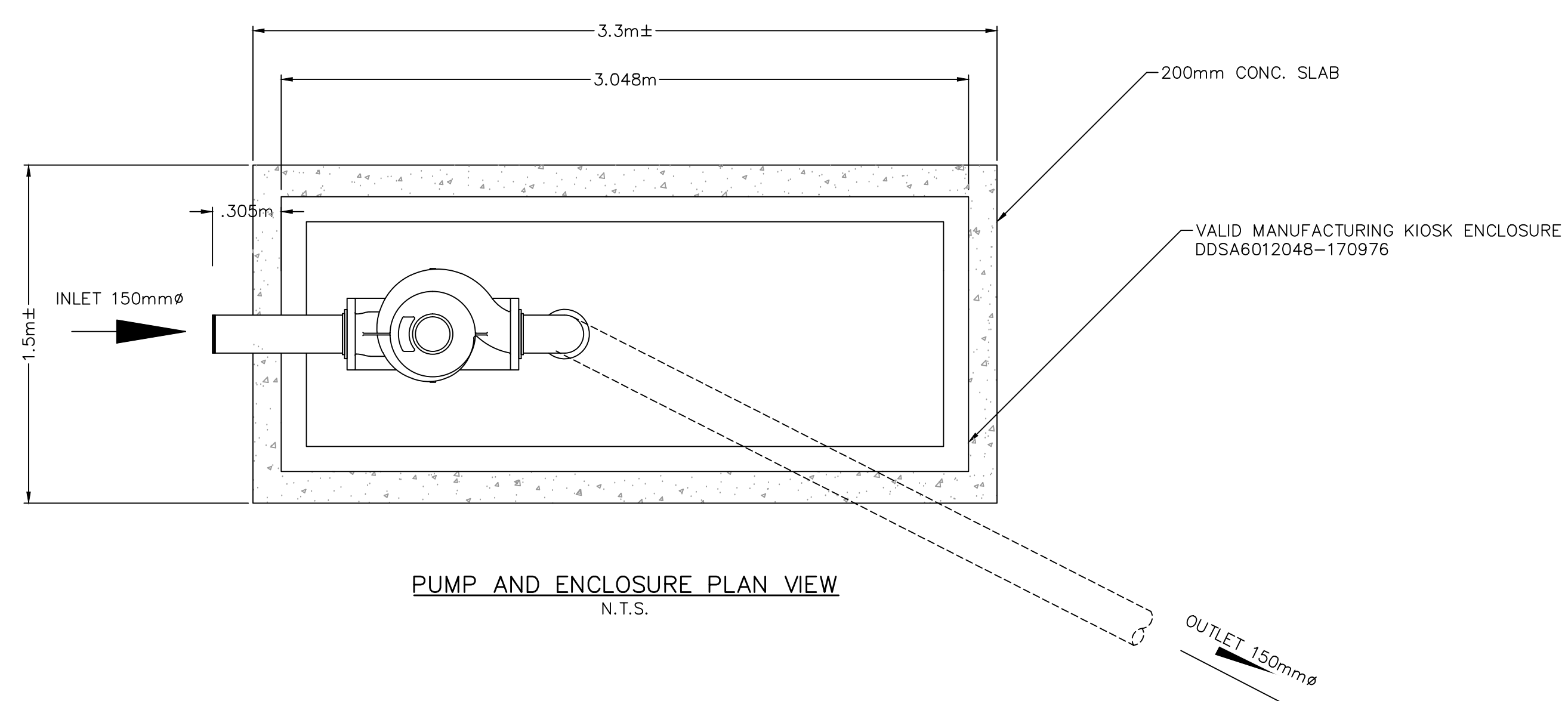


DESIGN BY: CDR	CHECKED BY: MBR
DRAWN BY: MBR/GPD	APPROVED BY: CDR
SCALE: HORIZ: 1:250 VERT: 1:100	DATE: 13MAR18 SHEET: 2 OF 3
ENG. FILE NUMBER: RDN 12-43406	PROJECT NUMBER: 1019-001
DRAWING NUMBER: C01	REV: F

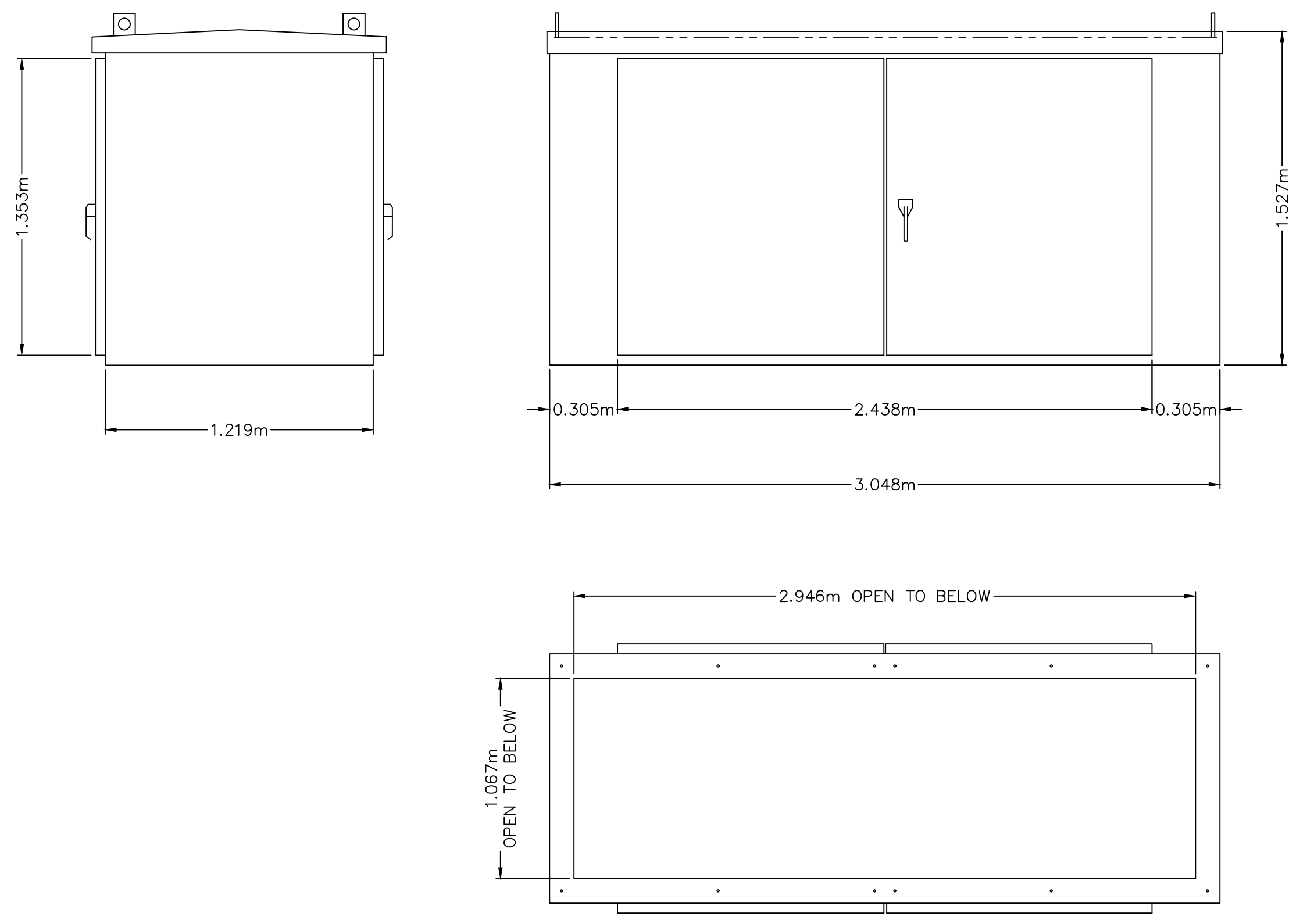
REV.	DATE	BY	DESCRIPTION	ENG
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E	16APR18	CDR	ISSUED FOR REVIEW	CDR
D	13MAR18	CDR	ADDITIONAL DETAILS	CDR
C	16NOV17	CDR	ISSUED FOR REVIEW	CDR
B	04AUG17	RDE	REVISED TANK OPTION	CDR
A	27JUL17	MBR	ISSUED FOR REVIEW	CDR

**COOMBS-HILLIERS FIRE DEPARTMENT
WATER STORAGE TANK**

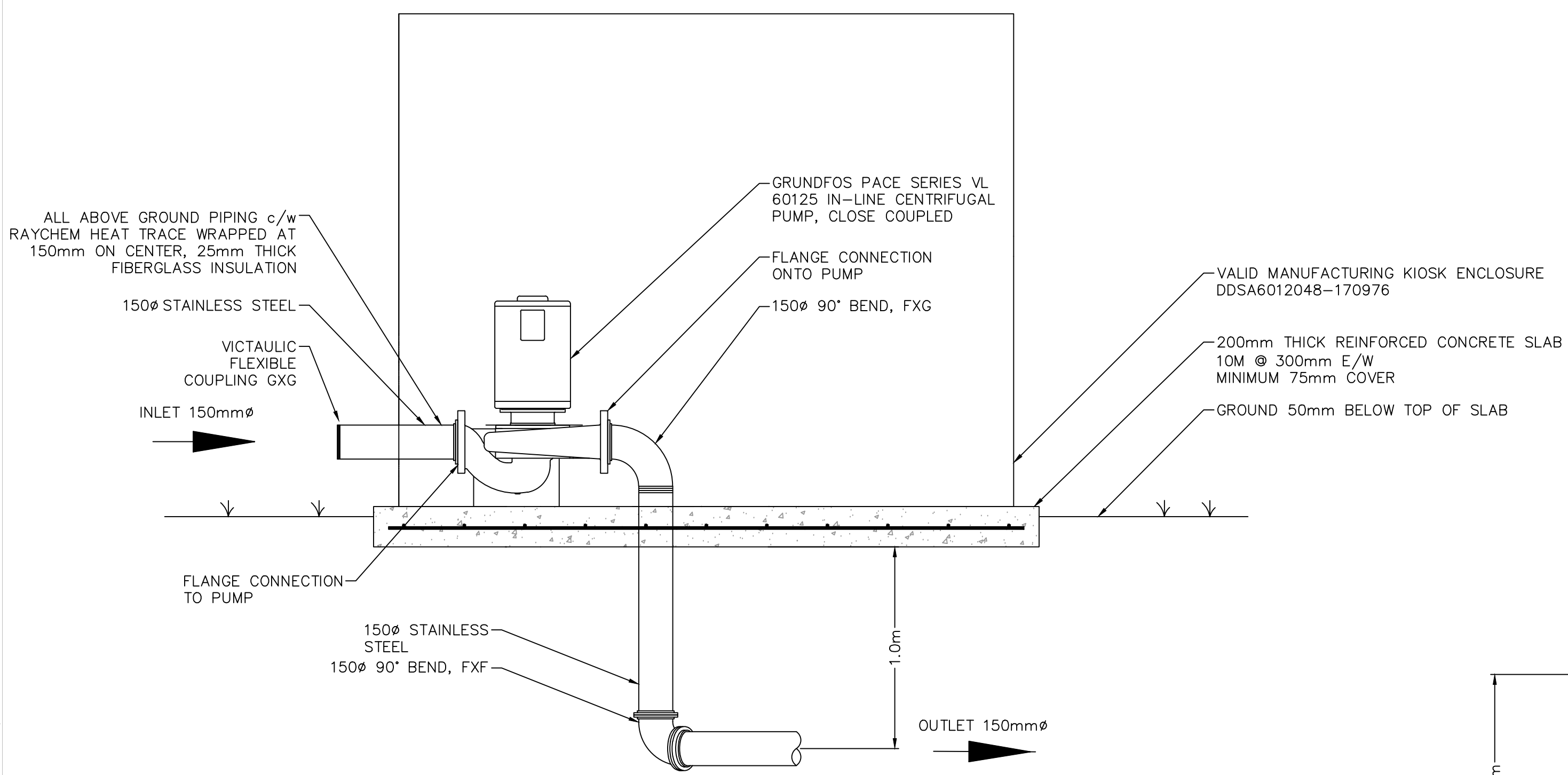
COOMBS, BC



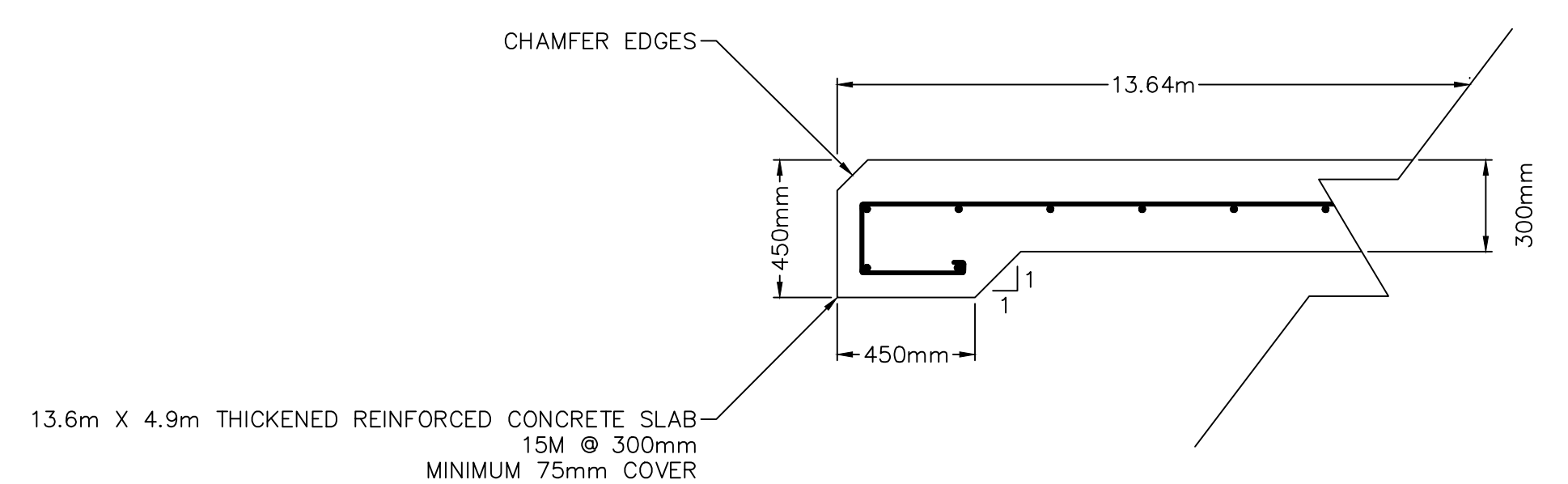
PUMP AND ENCLOSURE PLAN VIEW
N.T.S.



**KIOSK ENCLOSURE
(FOR INFORMATION ONLY)**
VALID MANUFACTURING MODEL: DDSA6012048-170976
N.T.S.

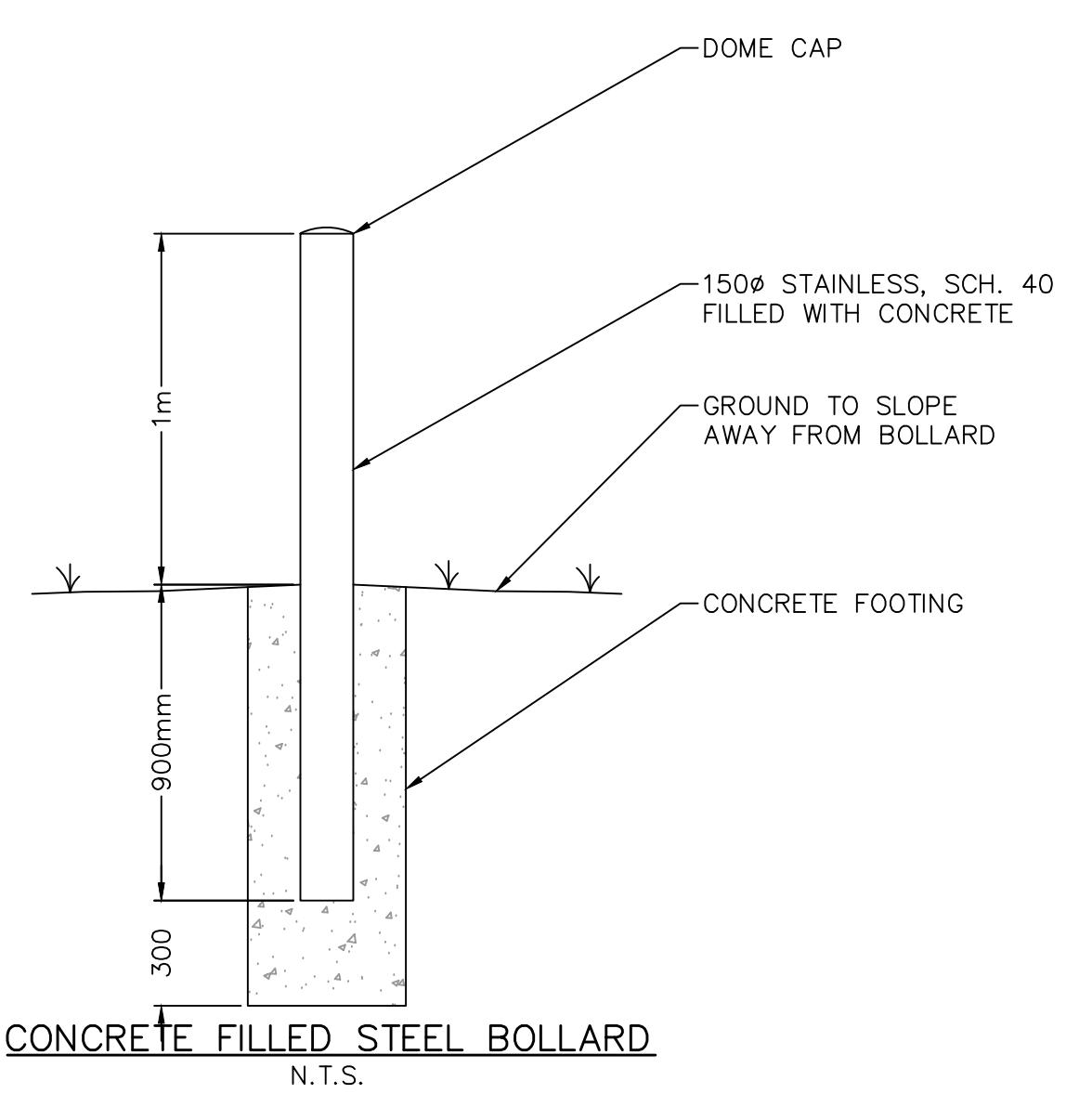


PUMP AND ENCLOSURE ELEVATION VIEW
N.T.S.

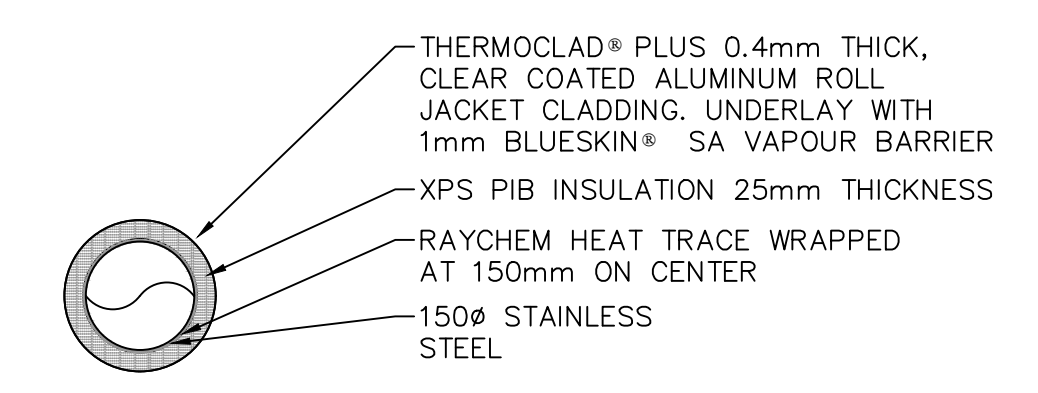


**THICKENED REINFORCED CONCRETE
SLAB FOR TANKS***
N.T.S.

*FINAL DESIGN, IF MORE CONSERVATIVE FOR SEISMIC REQUIREMENTS, TO COME FROM TANK MANUFACTURER



CONCRETE FILLED STEEL BOLLARD
N.T.S.



**TANK INTERCONNECTION PIPING
CROSS SECTION**
N.T.S.

DRAWING TITLE:

DETAILS


CASCARA
 CONSULTING ENGINEERS LIMITED
 #206-335 WESLEY STREET NANAIMO, BC V9R 2T5
 TEL: 250.591.7364 EMAIL: info@cascara.ca

DESIGN BY: CDR	CHECKED BY: MBR
DRAWN BY: MBR/GPD	APPROVED BY: CDR
SCALE: HORIZ: 1:250 VERT: DATE: 13MAR18 SHEET: 3 OF 3 ENG. FILE NUMBER: RDN 12-43406 PROJECT NUMBER: 1019-001 DRAWING NUMBER: C02	REV: F