REGIONAL DISTRICT OF NANAIMO

REQUEST FOR TENDER No. 23-016

Lee and Hall Road Pump Stations – Platform Upgrades

Addendum 1
Issued: February 24, 2023

Closing Date & Time: on or before 3:00 PM Pacific Time on March 9, 2023

This addendum shall be read in conjunction with and considered as an integral part of the Request for Tender. Revisions supersede the information contained in the original Tender or previously issued Addendum. No consideration will be allowed for any extras due to any Vendor not being familiar with the contents of this Addendum. All other terms and conditions remain the same.

Clarifications:

1. Additional reference photos are attached from the Herold Engineering Condition Assessment, performed in Spring 2020.
2. RDN Operations checks the floats and level sensor and hoses down the wet-wells of the stations weekly, which requires access into the wet-well. The weekly checks can be postponed by one week to provide Contractors with free and clear access for two weeks to perform the Work at each pump station, barring any emergencies or operational issues requiring access.
3. The vehicle access area beside the Hall Road Pump Station may be used for staging materials and for vehicle access. Please take note of the load limitations of the hatches noted in Question 4 below. Contractors shall erect 2m high metal construction fencing around the staging area and provide pedestrian access to the beach outside of working hours.

   The Town of Qualicum Beach has also agreed to permit use of two of the three parking spaces next to the pump station during working hours, for the duration of construction. The RDN will erect signage ahead of the project to inform the public about the parking space and beach access closure.

4. Parking passes and use of parking spaces at the Lee Road Pump Station may be discussed with the French Creek Harbour Authority. Contact Dave at 250-248-5051.

Questions:

Q1) There are currently connections from a clamp around the pump discharge header pipes to a structural member of the platform at the Lee Road Pump Station.

a) Do the clamp connections to the structural platform member need to be reinstated to the new platform structural member? If so, please provide details for reconnection.

b) Do the discharge header pipes need to be temporarily supported during construction?

A1a) Yes, the clamp connections are required to be reinstated per the attached "Typical Pipe Support Detail" shown on marked up drawing "HRPS-M-001 – Qualicum Interceptor – Hall Road Pumping Station Mechanical". The clamps exist at the Lee Road Pump Station and on the lower platform of the Hall Road Pump Station. The clamps for the Hall Road Pump Station are shown in Figure 8 of the attached photos from the Herold Engineering Condition Assessment.

Clamp materials to be 304 stainless steel to ASTM A276 with 304 stainless steel bolts to ASTM F593-C. Include a 3 – 6mm thick rubber strip between the clamp and the pipe to prevent galvanic corrosion.

A1b) Yes, Tenderers shall make provision to provide temporary lateral and vertical support for the pipes during construction to replace the support provided by the pipe clamps connected to the platform structural members.

Q2) What is the depth of the wet-well?

A2) Attached are two historical drawings for the pump stations that provide approximate elevations of the wet-wells for planning purposes. The successful Tenderer shall field confirm any dimensions required to be accurate or relied upon to complete the Work. The attached drawings are:

- HRPS-M-112 – Hall Road Sewage Pump Station Improvements – Wet Well, Check Valve Chamber and Flow Meter Chamber Mechanical Details
- LRPS-M-102 – Upgrading Lee Road Sewage Lift Station – General Arrangement Plan, Section and Details

Q3) Can the pump rails be removed temporarily during construction?

A3) Yes, the pump rails can be removed temporarily to facilitate construction but must be restored as soon as practicable. No separate payment will be made for removal or reinstatement of the rails. The Contractor may be required to assist with pump removal in case of emergency or operational issue.

Q4) What is the load rating of the ground-level hatches in the vehicle access area at the Hall Road Pump Station?

A4) The hatches shown in the attached photos next to the Hall Road Pump Station are rated to 300 PSF and are suitable for pedestrian traffic only. The Contractor may place road plates over the hatches to facilitate vehicle access during construction.

End of Addendum
Attachments Below



Figure 1: Hall Rd. - Access Hatch



Figure 2: Hall Rd. - Typical Platform Arrangement



Figure 3: Hall Rd. - Typical Loss of Galvanizing



Figure 4: Hall Rd. - Loss of Galvanizing Around Fasteners



Figure 5: Hall Rd. - Broken Grating at Hinge



Figure 6: Hall Rd. - Corrosion Around Fastener



Figure 7: Hall Rd. - Corroded Grating Ledger angles Angle



Figure 8: Hall Rd. - Lower Platform



Figure 9: Lee Rd. - Lift Station Exterior



Figure 10: Lee Rd. - Existing Beam and Clip



Figure 11: Lee Rd. - Newer Grating Clip and Anchors



Figure 12: Lee Rd. - Corrosion at Cross Beam Clip



Figure 13: Lee Rd. - Corrosion at Cross Beam Clip



Figure 14: Lee Rd. - Broken Grating Hinge Connection



Figure 15: Lee Rd. Broken Ladder Connection



Figure 16: Lee Rd. - Corrosion of Existing Beam



Figure 17: Lee Rd. - Corroded Existing Cross Beam and Plating



Figure 18: Bay Ave. - Exterior View

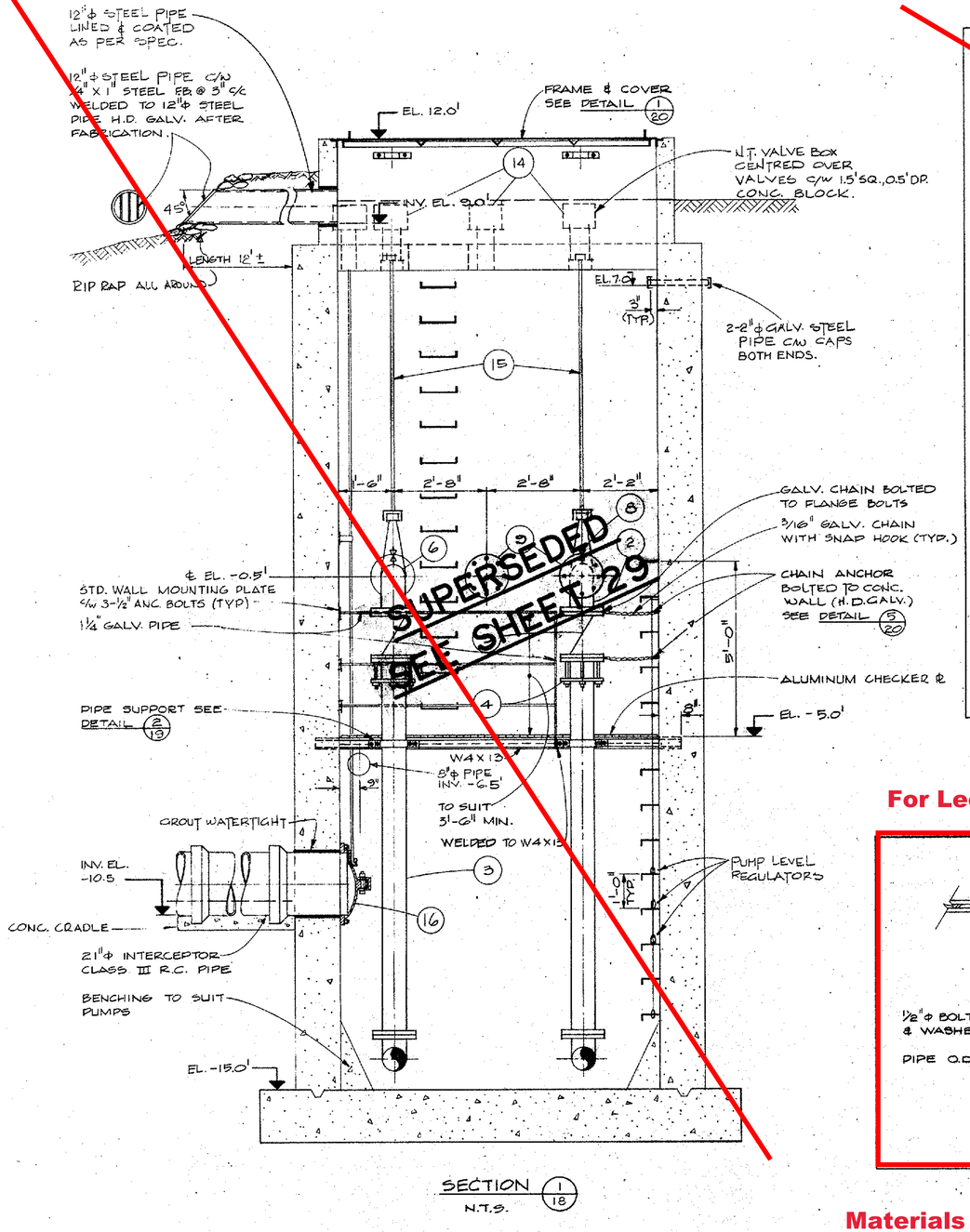

Hall Road Pump Station
Lower Platform


Hall Road Pump Station
Lower Platform

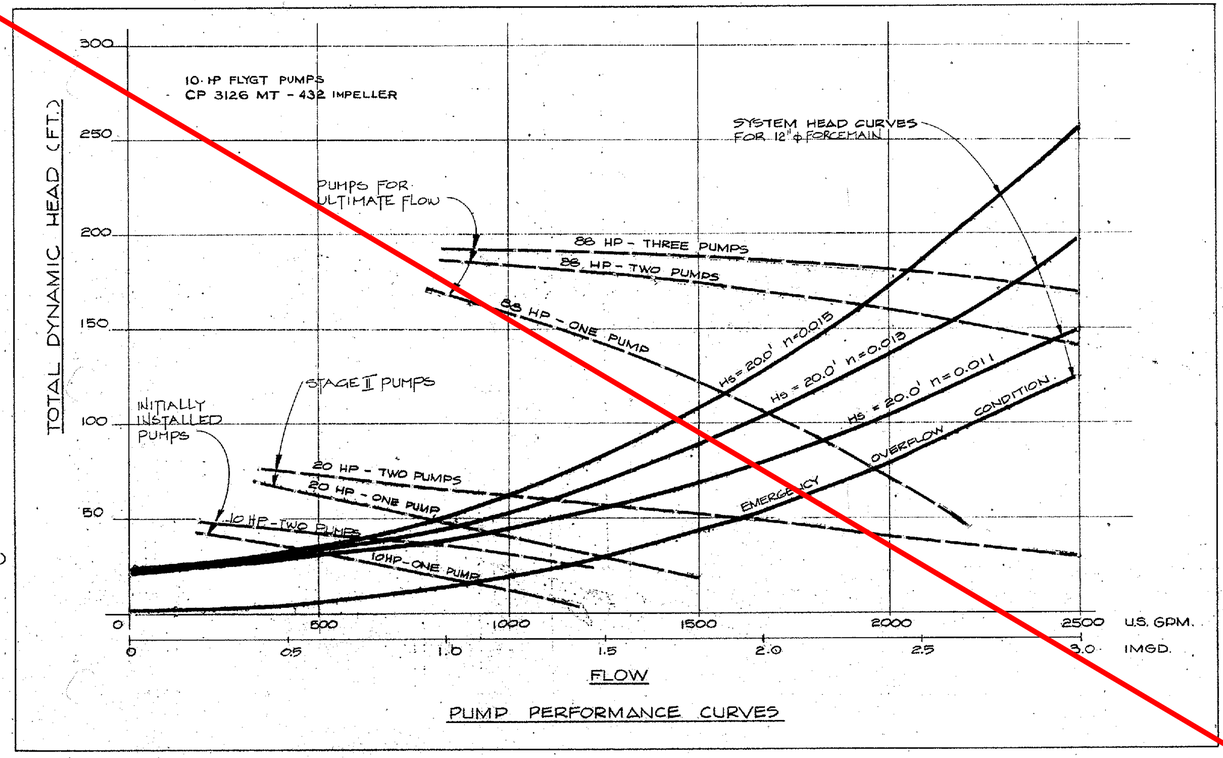

Hall Road Pump Station
Lower Platform


Hall Road Pump Station
Lower Platform

QB-INT-019

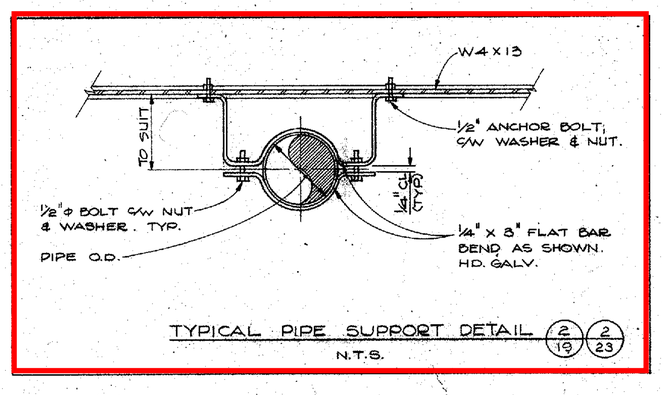


SECTION 1/18
N.T.S.



PUMP PERFORMANCE CURVES

For Lee Road and Hall Road Pump Stations



TYPICAL PIPE SUPPORT DETAIL 2/19 2/23
N.T.S.

Materials to be 304 stainless steel to ASTM A276 with 304 stainless steel bolts to ASTM F593-C. Include a 3 – 6mm thick rubber strip between the clamp and the pipe to prevent galvanic corrosion.

BILL OF MATERIALS

ITEM	DESCRIPTION	NO. REQ'D
1.	10 HP PUMP	2
3.	8"ϕ FLG X plain end pipe, length to suit	2
4.	8"ϕ FLG adapter, suitable for steel pipe	2
5.	8"ϕ FLG C.I. check valve c/w lever and weight	2
6.	8" X 8 FLG X FLG L.R. steel elbow	2
7.	8"ϕ AWWA gate valve c/w 2" sq. operating nut, or equivalent.	2
8.	1/2"ϕ Bronze Gate Valve c/w 1 1/2"ϕ nipple welded to elbow	2
9.	8"ϕ Blind Flange	1
10.	8"ϕ FLG X FLG steel pipe c/w with thrust rings, 2'-3" long	3
11.	12"ϕ steel manifold, plain one end with 45° L.R. bend, 12" FLG other end, c/w three 8"ϕ 45° lateral outlets with 8"ϕ 45° L.R. elbows and 8"ϕ FLG ends.	1
12.	12"ϕ transition coupling suitable for 12"ϕ CL 150 AC & steel pipe	1
13.	12"ϕ Blind Flange	1
14.	N.T. valve box, c/w A.C. riser extension	4
15.	Valve operator extension c/w 2"sq. operating nut.	2
16.	21-inch ϕ sluice gate Armco 20-10C epoxy coated or approved equal.	1

PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA J. SELENAR

HRPS-M-001

REVISIONS	ISSUE	DATE	DR'N	CH'D	APP'D	DESCRIPTION
	B	31/12/76	JS	J.S.	BW	GENERAL REVISION
	C	JAN./78	R.HUI			"AS CONSTRUCTED"

DESIGNED J.L.
DRAWN J.N.
CHECKED BW

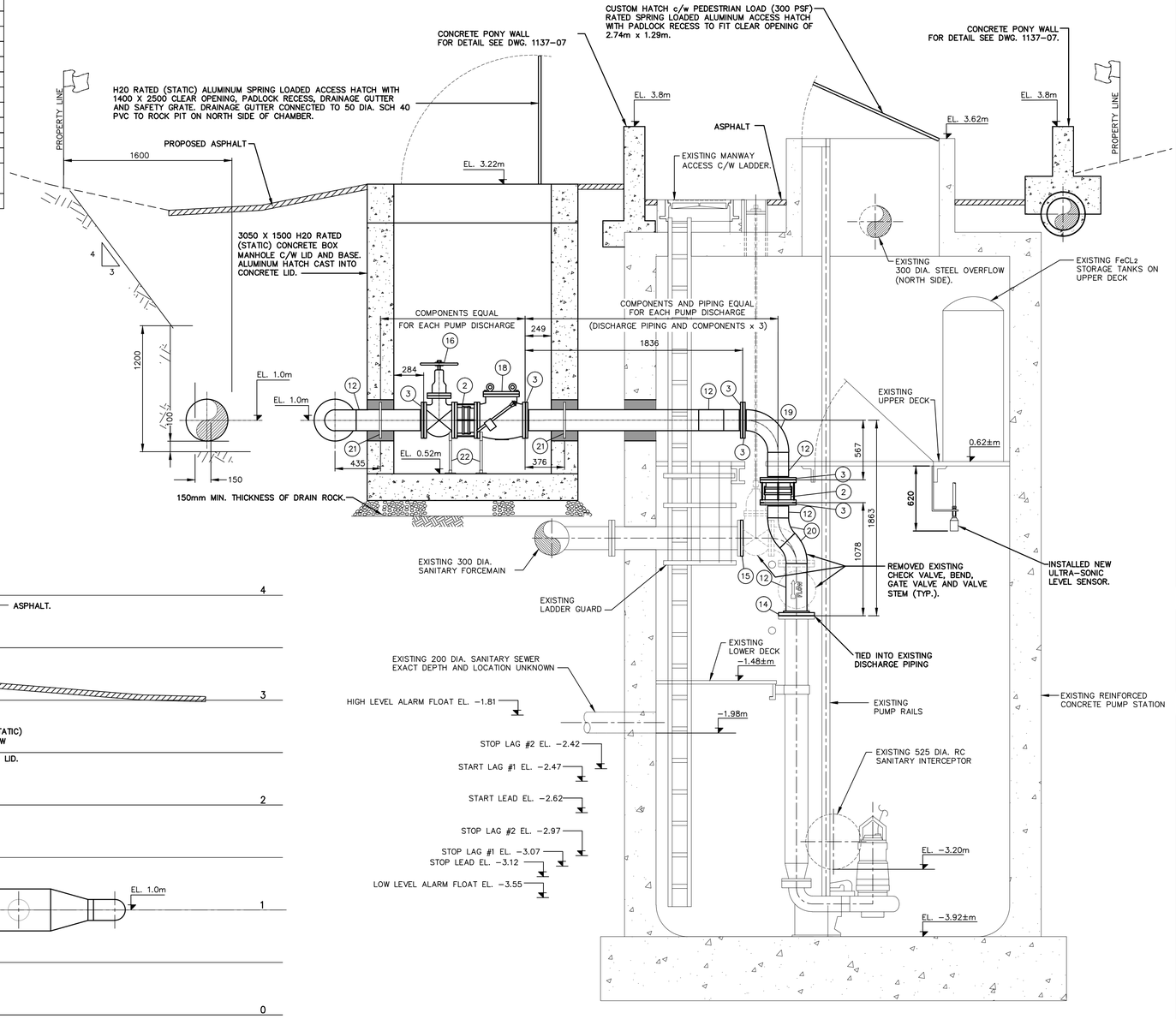
DAYTON & KNIGHT LTD.
CONSULTING ENGINEERS
Aug 9 1976

REGIONAL DISTRICT OF NANAIMO
QUALICUM INTERCEPTOR
HALL ROAD PUMPING STATION - MECHANICAL

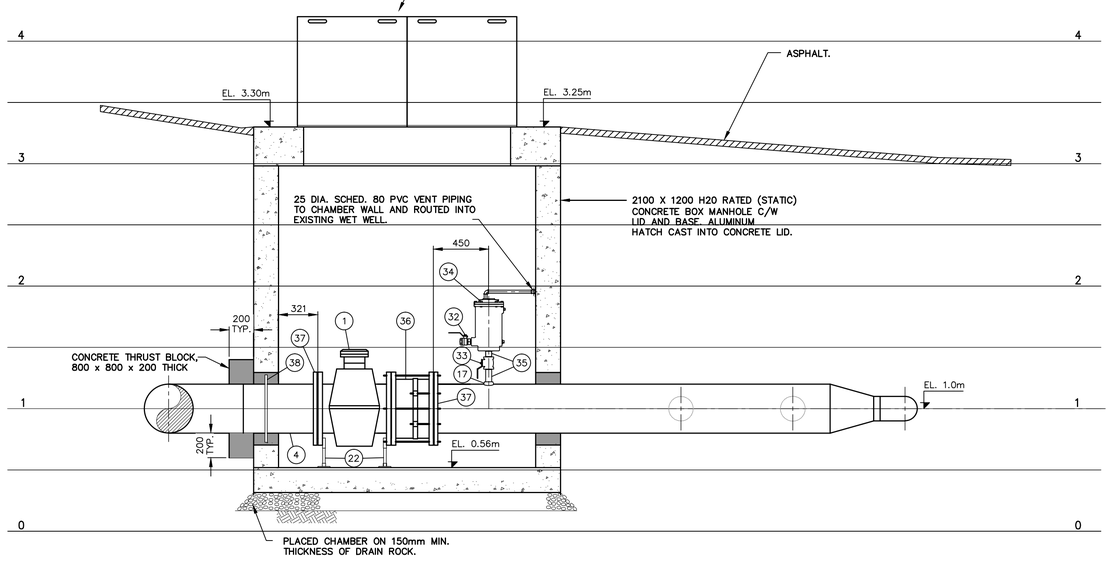
SCALE: AS SHOWN
DRAWING No. 122.39.1
SHEET 19 OF 29 ISSUE C
QB-INT-019

COMPONENT LIST

ITEM No.	DESCRIPTION	QUANTITY
18	CHECK VALVE, 200F x 200F (APCO SERIES 250 SWING CHECK C/W AIR CUSHION CYLINDER AND MECHANICAL INDICATOR)	3
19	LONG RADIUS 90° BEND, 200 DIA. SCH 10 STAINLESS STEEL 304L	3
20	45° BEND, 200 DIA. SCH 10 STAINLESS STEEL 304L	6
21	THRUST RING, 75 WIDE x 4.5 THICK STAINLESS STEEL 304L FOR 200 DIA. PIPE	6
22	ADJUSTABLE FLANGE SUPPORT c/w DIELECTRIC BOLT SLEEVES	8
23	ADAPTER, D.I., 400MJ x F	1
24	MECHANICAL JOINT RESTRAINER FOR PVC PIPE, 400 DIA.	4
25	BLIND FLANGE, EPOXY COATED FUSION BONDED D.I., 400 DIA.	1
26	PIPE, 400 DIA. DR18 PVC c/w JOINT RESTRAINERS	TO SUIT
27	WYE, EPOXY COATED FUSION BONDED D.I., 400F x 400F x 300F c/w CONCRETE THRUST BLOCK	1
28	GATE VALVE, 300F x 300MJ	1
29	MECHANICAL. JOINT RESTRAINER FOR PVC PIPE, 300 DIA.	1
30	PIPE, 300 DIA. DR14 PVC c/w JOINT RESTRAINERS	TO SUIT
31	COUPLING, 300PVC x 300AC	1
32	BALL VALVE, 50MIPT, STAINLESS STEEL	1
33	BALL VALVE, 50FIPT, STAINLESS STEEL	1
34	AIR VALVE, 50FIPT (VALMATIC MODEL 801A WASTEWATER COMBINATION AIR VALVE)	1
35	NIPPLE, 50MIPT SCHED 40 STAINLESS STEEL 304L	2
36	DISMANTLING JOINT, 400F x F (ROMAC INDUSTRIES DJ400)	1
37	VANSTONE FLANGE, 400 DIA. STAINLESS STEEL 304L, c/w CLASS D AWWA C228 STAINLESS STEEL BACKING RING	2
38	THRUST RING, 75 WIDE x 4.5 THICK STAINLESS STEEL 304L FOR 400 DIA. PIPE	1



SECTION A 02
1:25



SECTION B 02
1:25

KOERS & ASSOCIATES ENGINEERING LTD.
Consulting Engineers
P.O. Box 790, 194 Memorial Ave. Parksville, BC V9P 2G8
Ph: 250-248-3151 Fax: 250-248-5362 www.koers-eng.com

RECORD OF REVISIONS

REV	DATE	BY	ENG	DESCRIPTION
1	1JUNE12	CJM	KD	ADDED STRUCTURAL
2	22JUNE12	CJM	KD	ADDED ELECTRICAL
3	23AUG12	CJM	KD	ADDENDUM #1
4	11SEPT13	CJM		RECORD
D	11SEPT13	CJM		RECORD
C	29AUG12	CJM	KD	CONSTRUCTION
B	11JULY12	CJM	KD	TENDER
A	17JAN12	PB	KD	APPROVAL
ISS	DATE	BY	ENG	DESCRIPTION

RECORD OF ISSUE

SEAL

PROJECT NO.	1137
DRAWN	PB/CJM
DESIGNED	KD
CHECKED	CD
APPROVED	CD
DATE	AUG. 2011
SCALE	AS SHOWN

CLIENT

REGIONAL DISTRICT OF NANAIMO

PROJECT

HALL ROAD SEWAGE PUMP STATION IMPROVEMENTS

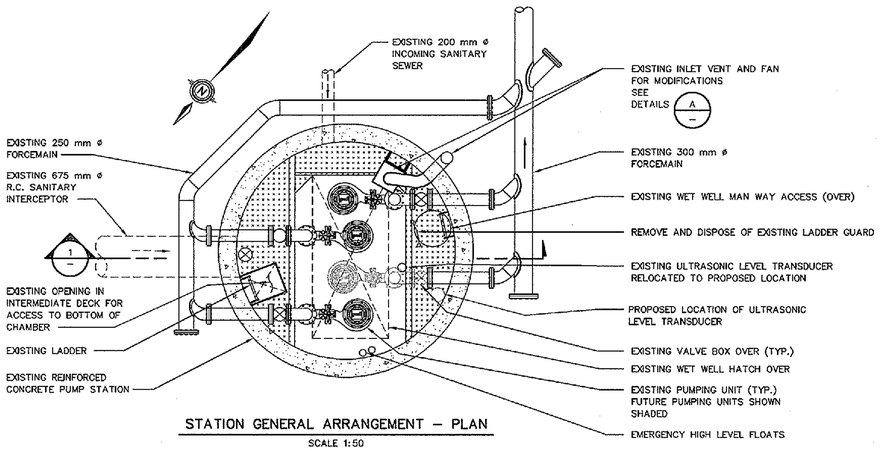
TITLE

WET WELL, CHECK VALVE CHAMBER AND FLOW METER CHAMBER MECHANICAL DETAILS

HRPS-M-112

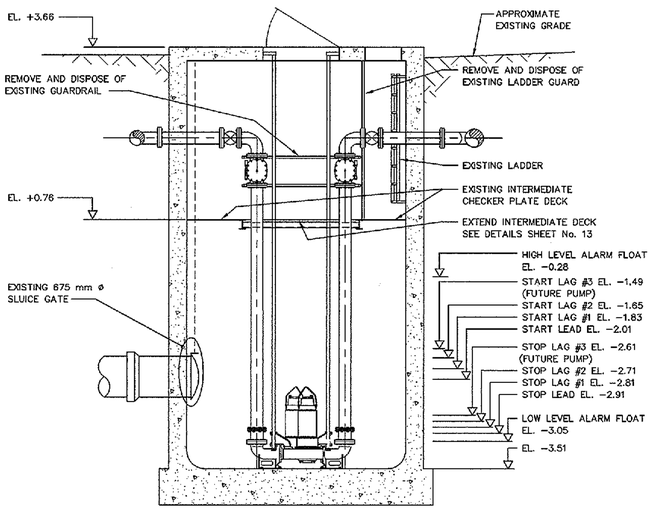
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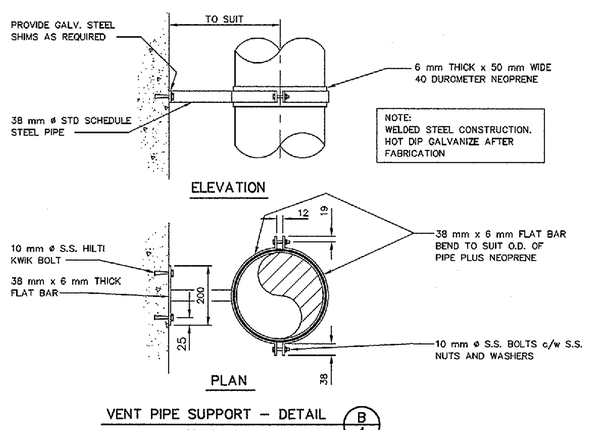
STATION GENERAL ARRANGEMENT – PLAN

SCALE 1:50



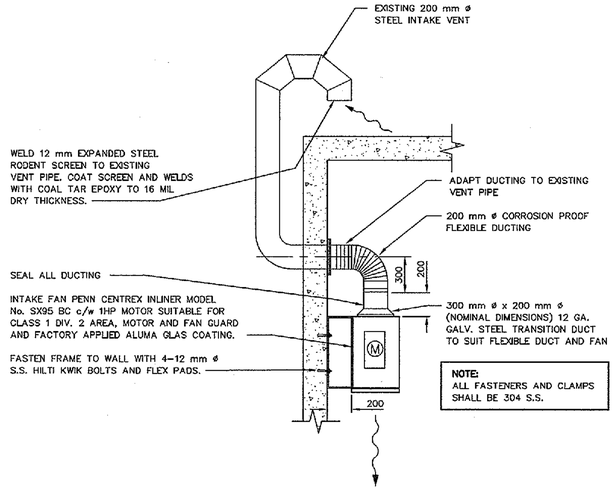
SECTION 1

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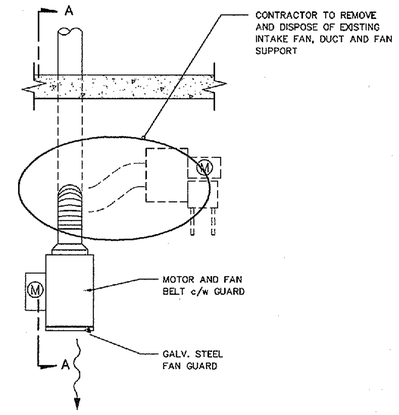


VENT PIPE SUPPORT – DETAIL B/4

SCALE 1:10



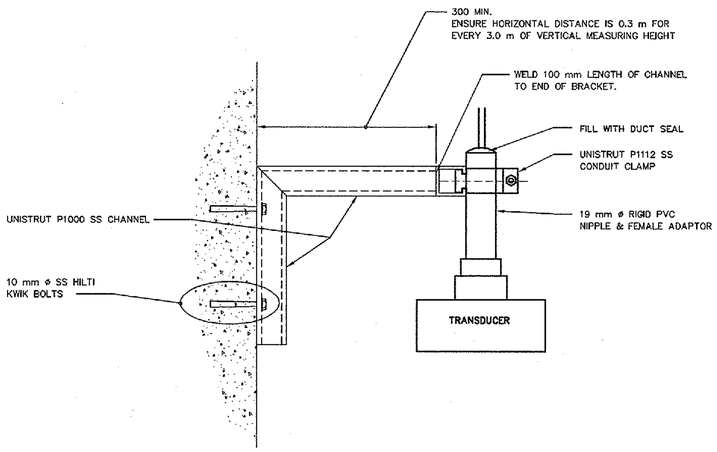
SECTION A–A



ELEVATION

INTAKE FAN – DETAIL A

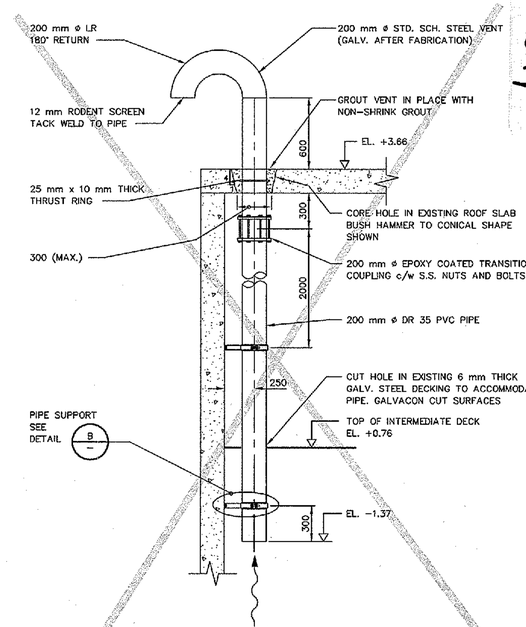
SCALE 1:25



ULTRASONIC TRANSDUCER SUPPORT BRACKET – DETAIL C/3

N.T.S.

2 REQUIRED – 1 FOR LEE ROAD
1 FOR HALL ROAD



(NOT IN CONTRACT)

EXHAUST VENT – [illegible]

SCALE 1:25

PV-INT-047

LRPS-M-102

PV-INT-047

REVISIONS	ISSUE	DATE	DR'N	CH'D	APP'D	DESCRIPTION	ISSUE	DATE	DR'N	CH'D	APP'D	DESCRIPTION
	B	96/09/12	DHA	AEB		RECORD DRAWING						

DESIGNED AEB
DRAWN DHA
CHECKED

KERR WOOD LEIDAL ASSOCIATES LTD.
CONSULTING ENGINEERS
OCT 3, 1996

REGIONAL DISTRICT OF NANAIMO
UPGRADING LEE ROAD SEWAGE LIFT STATION
GENERAL ARRANGEMENT – PLAN, SECTION AND DETAILS

SCALE AS SHOWN
DRAWING No. 536-001
SHEET 12 OF 18 ISSUE 8

96/09/17
536-001\LEECA.DWG

NON-MANDATORY SITE MEETING ATTENDEE LIST

PROJECT TITLE:	23-016 Lee and Hall Road Pump Stations - Platform Upgrades
MEETING DATE/TIME	Tuesday, February 21, 2023 – 2:30 pm
MEETING PLACE	Lee Road Pump Station – 1045 Lee Road, Parksville, BC

COMPANY NAME
1. CanWest Mechanical
2. The EC Group