



**SITE**

**LOCATION PLAN**  
 N.T.S.

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V15-0205/E6	

**Client:**

Transport Canada  
 #820-800 Burrard Street  
 Vancouver, BC. V6Z 2J8  
 Tel.604 775 6822

**Project:**

Penticton Airport Sanitary Lift Station Replacement  
 Penticton Airport  
 Penticton, BC

Revision/	Description/Description	Date/Date
3	100% COMPLETE - ISSUED FOR TENDER	2015/06/04
2	98% COMPLETE	2015/04/28
1	90% COMPLETE - ISSUED FOR PRELIMINARY REVIEW	2015/04/17
0	33% COMPLETE - ISSUED FOR PRELIMINARY REVIEW	2015/03/19

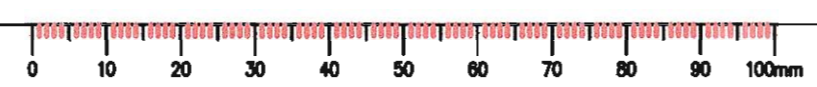
Client/client  
**TRANSPORT CANADA**  
 PENTICTON AIRPORT  
 PENTICTON, BC

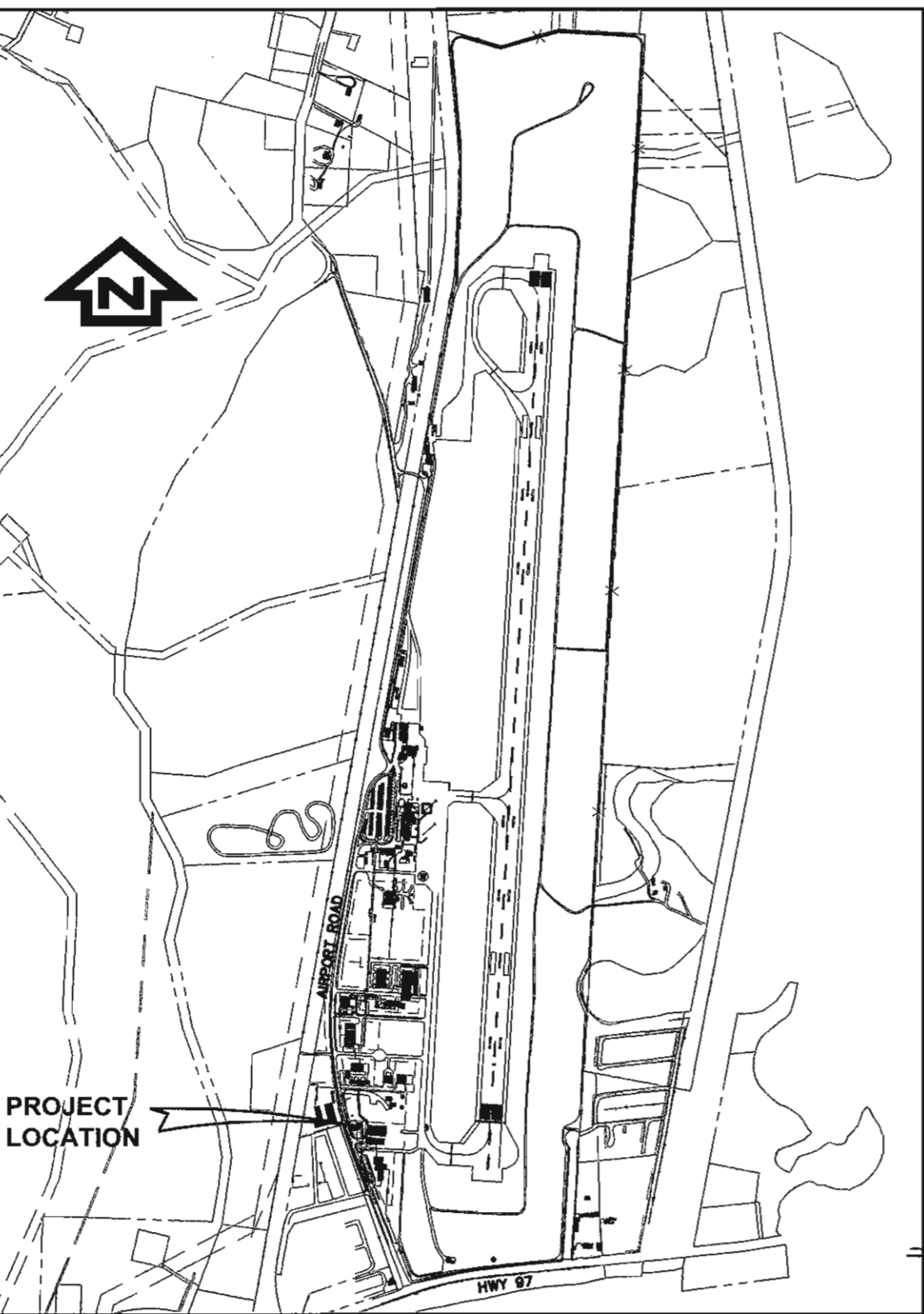
Project title/Titre du projet  
**PENTICTON AIRPORT  
 SANITARY LIFT STATION  
 REPLACEMENT**

Consultant Signature Only  
 WEDLER ENGINEERING LLP.  
 Designed by/Concept par  
 ARG  
 Drawn by/Dessiné par  
 TJD  
 PWSC Project Manager/Administrateur de Projets TPSOC  
 MONIQUE SIMARD  
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 Gestionnaire régionale, Services d'architecture et de génie, TPSOC

Drawing title/Titre du dessin  
**COVER SHEET, LOCATION PLAN  
 & DRAWING INDEX**

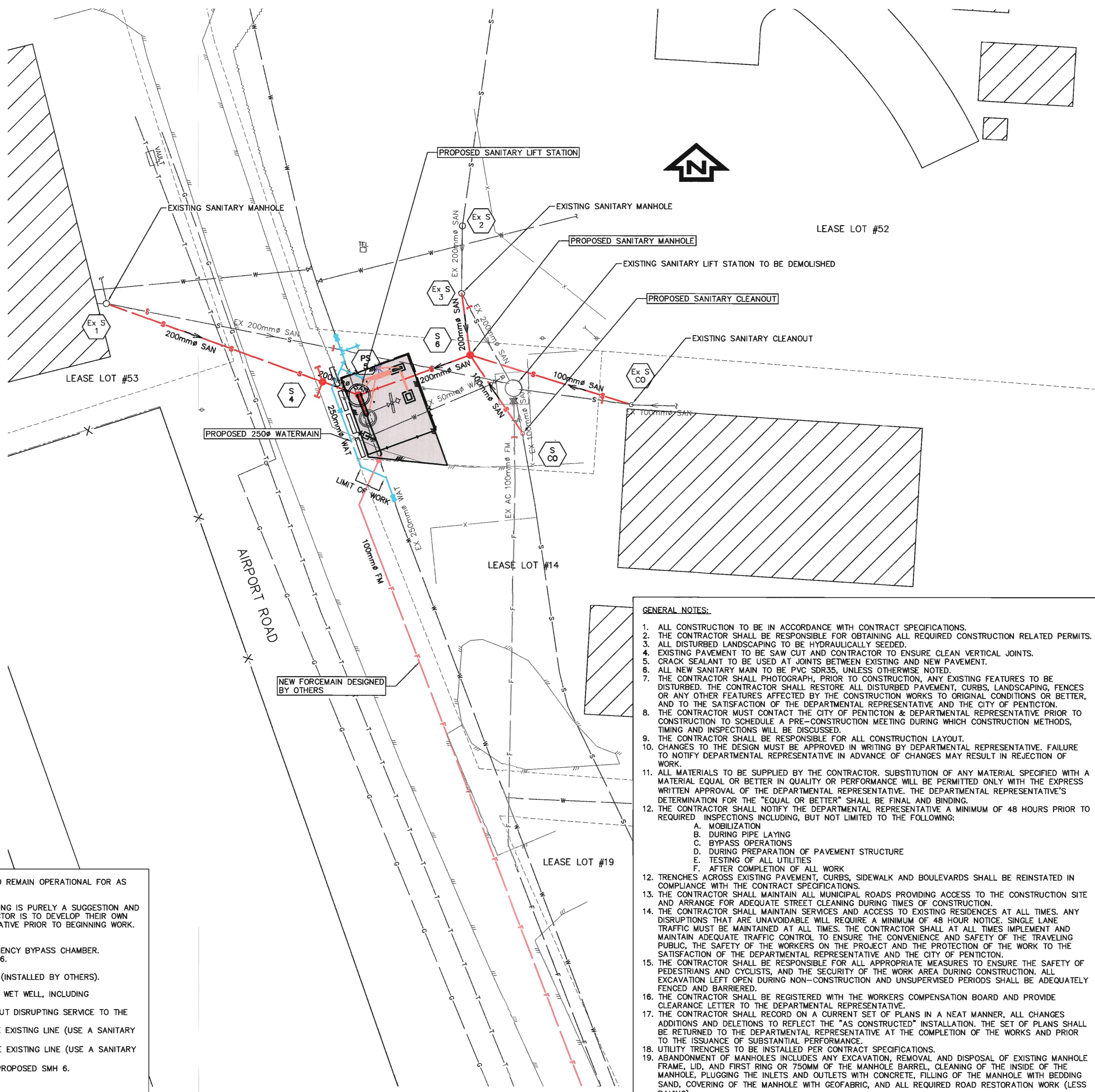
Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
R.070315.001	C0	3





**KEY PLAN**  
 SCALE 1:12,500

SYMBOL	DESCRIPTION
	EXISTING SPOT ELEVATION
	PROPOSED SPOT ELEVATION
	GRADE
	MANHOLE
	CLEANOUT
	CAP
	COUPLER
	GATE VALVE
	HYDRANT
	SANITARY
	WATER
	TELEPHONE
	GAS
	HYDRO
	LOT LINE
	LEASE LINE
	CONTOURS
	HEAVY PAVEMENT STRUCTURE



**SITE PLAN**  
 SCALE 1:250

DESIGN INTENDED TO ENABLE THE EXISTING SANITARY LIFT STATION TO REMAIN OPERATIONAL FOR AS LONG AS POSSIBLE.  
 BELOW IS THE SUGGESTED CONSTRUCTION SEQUENCING. THIS SEQUENCING IS PURELY A SUGGESTION AND IN NO WAY OBLIGATES THE CONTRACTOR TO FOLLOW IT. THE CONTRACTOR IS TO DEVELOP THEIR OWN SEQUENCING PLAN AND SUBMIT IT TO THE DEPARTMENTAL REPRESENTATIVE PRIOR TO BEGINNING WORK.

1. COMPLETE PROPOSED WATERWORKS.
2. INSTALL PROPOSED WET WELL, FLOWMETER CHAMBER, AND EMERGENCY BYPASS CHAMBER.
3. INSTALL PROPOSED GRAVITY MAIN FROM NEW WET WELL TO SMH 6.
4. INSTALL PROPOSED KIOSK AND GENSET.
5. TIE-IN NEW LIFT STATION TO NEW 100 MM DIAMETER FORCEMAIN (INSTALLED BY OTHERS).
6. BEGIN COMMISSIONING OF PROPOSED LIFT STATION.
7. INSTALL PROPOSED GRAVITY MAIN FROM EXISTING SMH 1 TO NEW WET WELL, INCLUDING INSTALLATION OF PROPOSED SMH 4 (NO TIE-IN TO SMH 1).
8. INSTALL AS MUCH ADDITIONAL GRAVITY MAIN AS POSSIBLE WITHOUT DISRUPTING SERVICE TO THE EXISTING LIFT STATION.
9. TIE-IN EXISTING SMH 1 TO THE PROPOSED SYSTEM AND CAP THE EXISTING LINE (USE A SANITARY PUMPER TRUCK TO STORE FLOWS DURING THE TIE-IN PROCESS).
10. TIE-IN EXISTING SMH 3 TO THE PROPOSED SYSTEM AND CAP THE EXISTING LINE (USE A SANITARY PUMPER TRUCK TO STORE FLOWS DURING THE TIE-IN PROCESS).
11. TIE-IN THE TWO (2) 100MM SANITARY SERVICES FEEDING IN TO PROPOSED SMH 6.
12. BEGIN DECOMMISSIONING OF EXISTING SANITARY LIFT STATION.
13. INSTALL PROPOSED FENCING AND PAVING.

- GENERAL NOTES:**
1. ALL CONSTRUCTION TO BE IN ACCORDANCE WITH CONTRACT SPECIFICATIONS.
  2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED CONSTRUCTION RELATED PERMITS.
  3. ALL DISTURBED LANDSCAPING TO BE HYDRAULICALLY SEEDED.
  4. EXISTING PAVEMENT TO BE SAW CUT AND CONTRACTOR TO ENSURE CLEAN VERTICAL JOINTS.
  5. CRACK SEALANT TO BE USED AT JOINTS BETWEEN EXISTING AND NEW PAVEMENT.
  6. ALL NEW SANITARY MAIN TO BE PVC SDR35, UNLESS OTHERWISE NOTED.
  7. THE CONTRACTOR SHALL PHOTOGRAPH, PRIOR TO CONSTRUCTION, ANY EXISTING FEATURES TO BE DISTURBED. THE CONTRACTOR SHALL RESTORE ALL DISTURBED PAVEMENT, CURBS, LANDSCAPING, FENCES OR ANY OTHER FEATURES AFFECTED BY THE CONSTRUCTION WORKS TO ORIGINAL CONDITIONS OR BETTER, AND TO THE SATISFACTION OF THE DEPARTMENTAL REPRESENTATIVE AND THE CITY OF PENTICTON.
  8. THE CONTRACTOR MUST CONTACT THE CITY OF PENTICTON & DEPARTMENTAL REPRESENTATIVE PRIOR TO CONSTRUCTION TO SCHEDULE A PRE-CONSTRUCTION MEETING DURING WHICH CONSTRUCTION METHODS, TIMING AND INSPECTIONS WILL BE DISCUSSED.
  9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION LAYOUT.
  10. CHANGES TO THE DESIGN MUST BE APPROVED IN WRITING BY DEPARTMENTAL REPRESENTATIVE. FAILURE TO NOTIFY DEPARTMENTAL REPRESENTATIVE IN ADVANCE OF CHANGES MAY RESULT IN REJECTION OF WORK.
  11. ALL MATERIALS TO BE SUPPLIED BY THE CONTRACTOR. SUBSTITUTION OF ANY MATERIAL SPECIFIED WITH A MATERIAL EQUAL OR BETTER IN QUALITY OR PERFORMANCE WILL BE PERMITTED ONLY WITH THE EXPRESS WRITTEN APPROVAL OF THE DEPARTMENTAL REPRESENTATIVE. THE DEPARTMENTAL REPRESENTATIVE'S DETERMINATION FOR THE "EQUAL OR BETTER" SHALL BE FINAL AND BINDING.
  12. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENTAL REPRESENTATIVE A MINIMUM OF 48 HOURS PRIOR TO REQUIRED INSPECTIONS INCLUDING, BUT NOT LIMITED TO THE FOLLOWING:
    - A. MOBILIZATION
    - B. DURING PIPE LAYING
    - C. BYPASS OPERATIONS
    - D. DURING PREPARATION OF PAVEMENT STRUCTURE
    - E. TESTING OF ALL UTILITIES
    - F. AFTER COMPLETION OF ALL WORK
  13. TRENCHES ACROSS EXISTING PAVEMENT, CURBS, SIDEWALK AND BOULEVARDS SHALL BE REINSTATED IN COMPLIANCE WITH THE CONTRACT SPECIFICATIONS.
  14. THE CONTRACTOR SHALL MAINTAIN ALL MUNICIPAL ROADS PROVIDING ACCESS TO THE CONSTRUCTION SITE AND ARRANGE FOR ADEQUATE STREET CLEANING DURING TIMES OF CONSTRUCTION.
  15. THE CONTRACTOR SHALL MAINTAIN SERVICES AND ACCESS TO EXISTING RESIDENCES AT ALL TIMES. ANY DISRUPTIONS THAT ARE UNAVOIDABLE WILL REQUIRE A MINIMUM OF 48 HOUR NOTICE. SINGLE LANE TRAFFIC MUST BE MAINTAINED AT ALL TIMES. THE CONTRACTOR SHALL AT ALL TIMES IMPLEMENT AND MAINTAIN ADEQUATE TRAFFIC CONTROL TO ENSURE THE CONVENIENCE AND SAFETY OF THE TRAVELING PUBLIC, THE SAFETY OF THE WORKERS ON THE PROJECT AND THE PROTECTION OF THE WORK TO THE SATISFACTION OF THE DEPARTMENTAL REPRESENTATIVE AND THE CITY OF PENTICTON.
  16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL APPROPRIATE MEASURES TO ENSURE THE SAFETY OF PEDESTRIANS AND CYCLISTS, AND THE SECURITY OF THE WORK AREA DURING CONSTRUCTION. ALL EXCAVATION LEFT OPEN DURING NON-CONSTRUCTION AND UNSUPERVISED PERIODS SHALL BE ADEQUATELY FENCED AND BARRIERED.
  17. THE CONTRACTOR SHALL BE REGISTERED WITH THE WORKERS COMPENSATION BOARD AND PROVIDE CLEARANCE LETTER TO THE DEPARTMENTAL REPRESENTATIVE.
  18. THE CONTRACTOR SHALL RECORD ON A CURRENT SET OF PLANS IN A NEAT MANNER, ALL CHANGES ADDITIONS AND DELETIONS TO REFLECT THE "AS CONSTRUCTED" INSTALLATION. THE SET OF PLANS SHALL BE RETURNED TO THE DEPARTMENTAL REPRESENTATIVE AT THE COMPLETION OF THE WORKS AND PRIOR TO THE ISSUANCE OF SUBSTANTIAL PERFORMANCE.
  19. UTILITY TRENCHES TO BE INSTALLED PER CONTRACT SPECIFICATIONS.
  20. ABANDONMENT OF MANHOLES INCLUDES ANY EXCAVATION, REMOVAL AND DISPOSAL OF EXISTING MANHOLE FRAME, LID, AND FIRST RING OR 750MM OF THE MANHOLE BARREL, CLEANING OF THE INSIDE OF THE MANHOLE, PLUGGING THE INLETS AND OUTLETS WITH CONCRETE, FILLING OF THE MANHOLE WITH BEDDING SAND, COVERING OF THE MANHOLE WITH GEOFABRIC, AND ALL REQUIRED ROAD RESTORATION WORK (LESS PAVING).

Revision/Édition	Description/Description	Date/Date
3	100% COMPLETE - ISSUED FOR TENDER	2015/06/04
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0	33% COMPLETE - ISSUED FOR PRELIMINARY REVIEW	2015/03/19

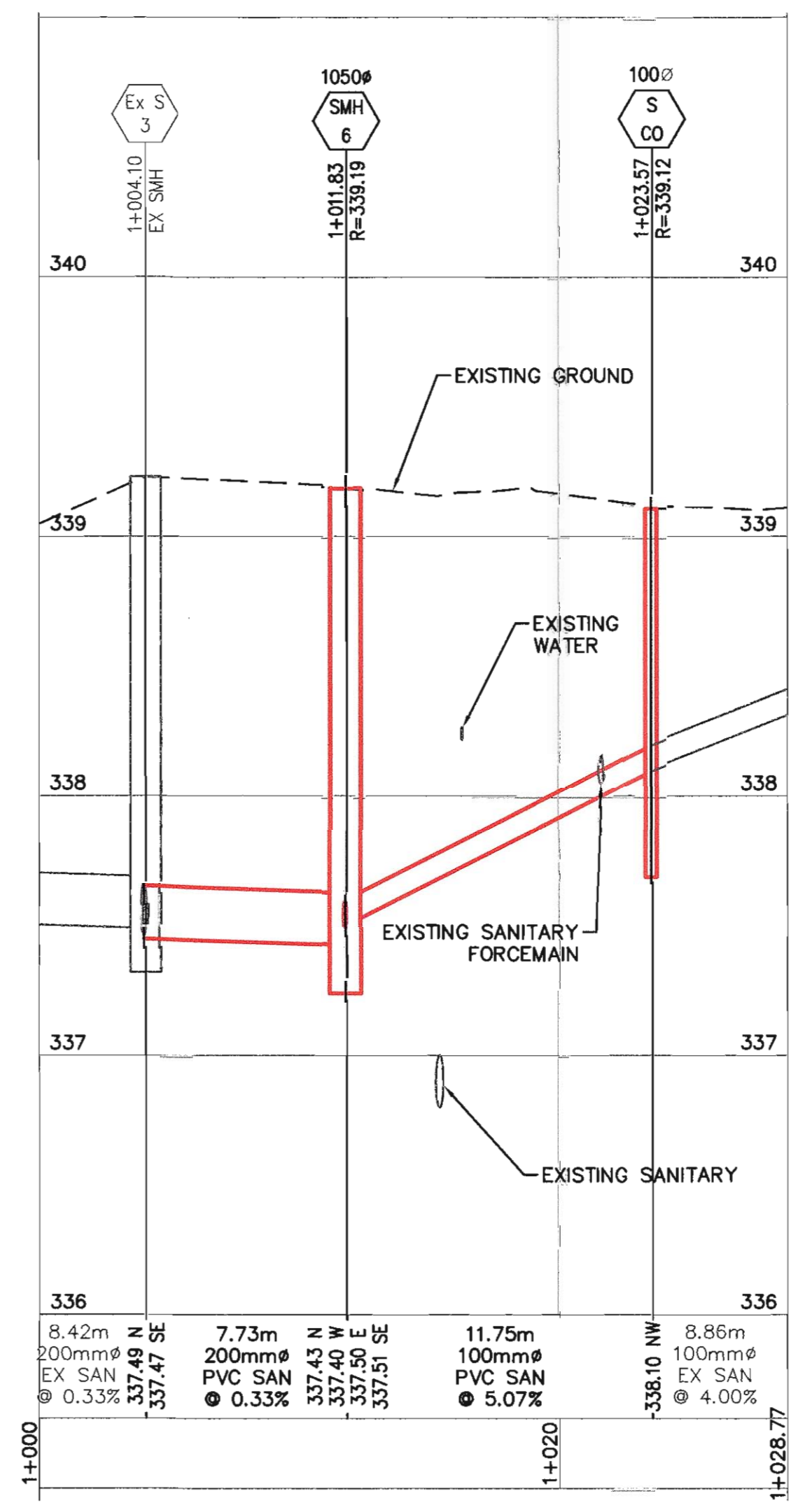
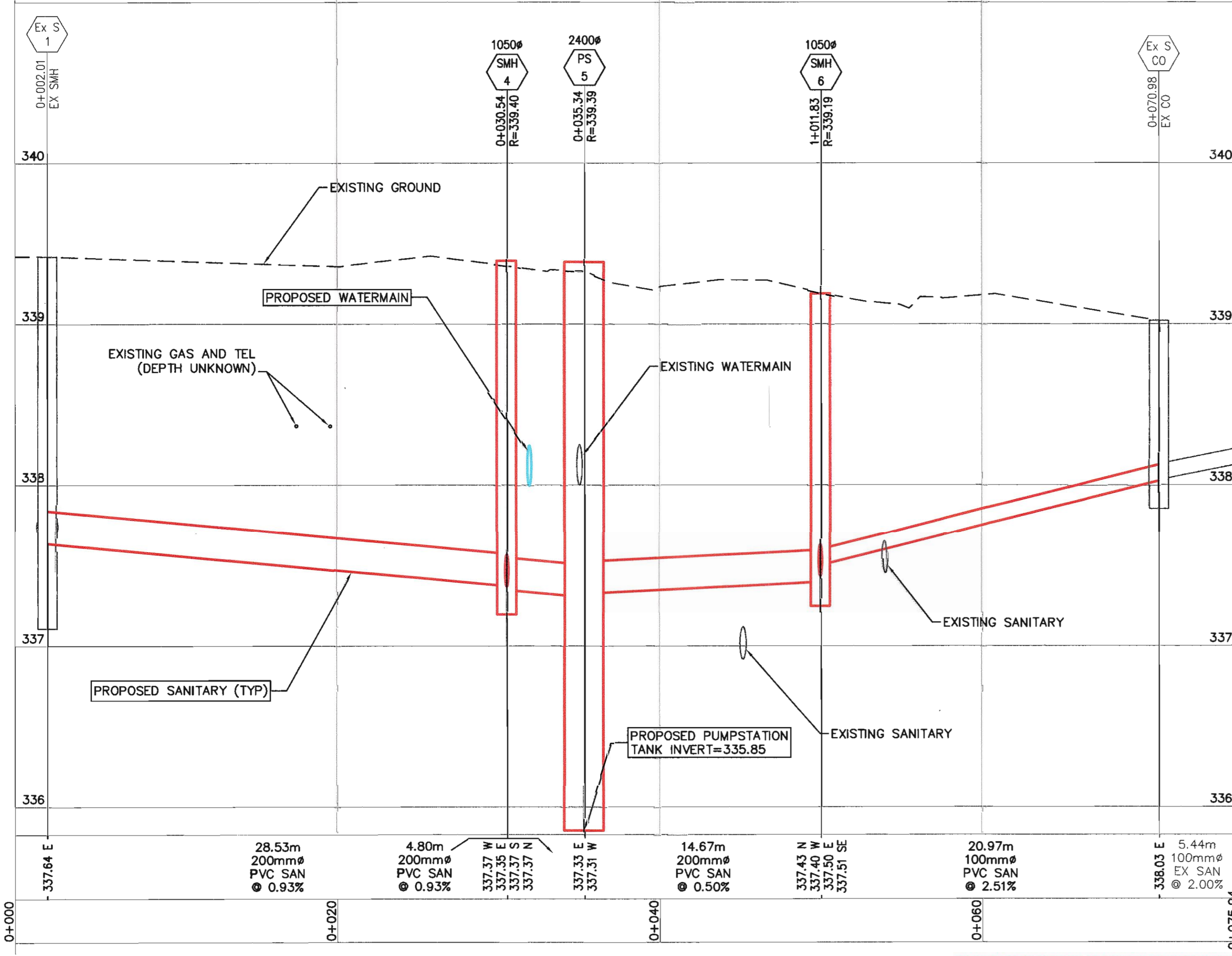
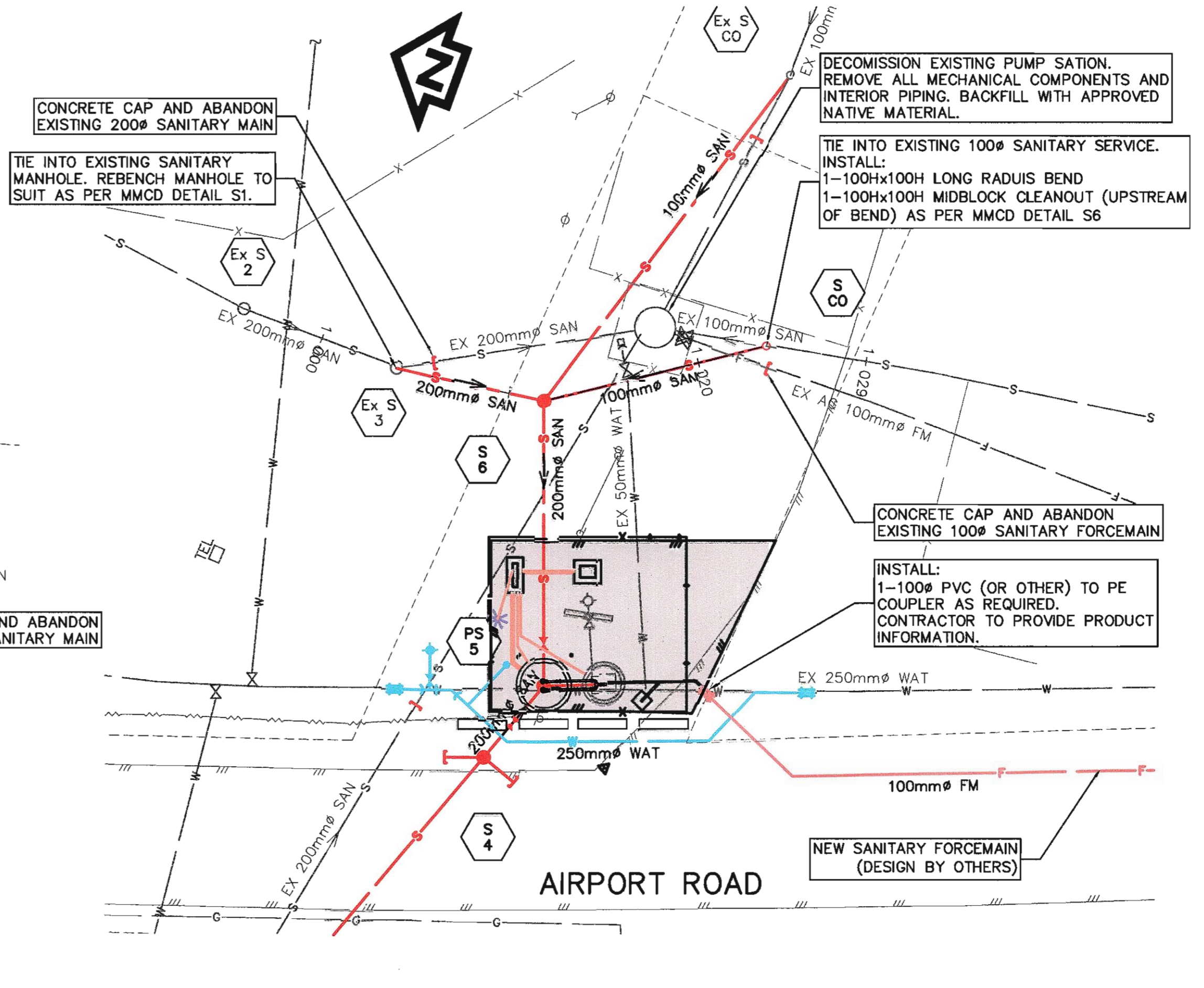
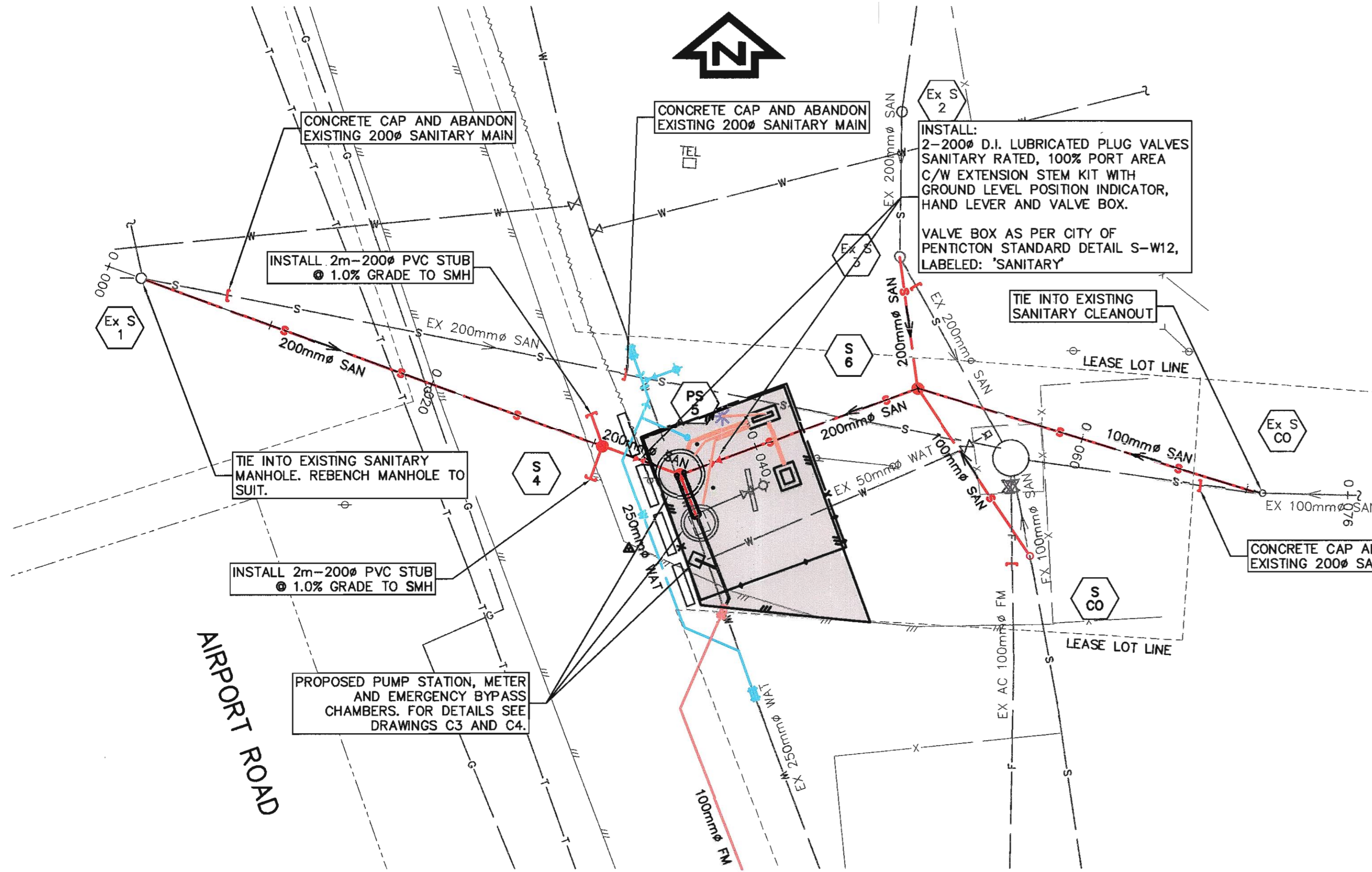
Client/client  
**TRANSPORT CANADA**  
 PENTICTON AIRPORT  
 PENTICTON, BC

Project title/Titre du projet  
**PENTICTON AIRPORT  
 SANITARY LIFT STATION  
 REPLACEMENT**

Consultant Signature Only  
 WEDLER ENGINEERING LLP.  
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 Drawn by/Designé par  
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 PWGSC Project Manager/Administrateur de Projets TP50C  
 MONIQUE SIMARD  
 Regional Manager, Architectural and Engineering Services  
 Gestionnaire régionale, Services d'architectural et de génie, TP50C

Drawing title/Titre du dessin  
**KEY PLAN, SITE PLAN  
 AND LEGEND**  
 Project No./No. du projet  
 R.070315.001  
 Sheet/Feuille  
 C1  
 Revision no./no. de révision  
 3





SCALE 1:200H, 1:20V

Revision/Revisions	Description/Description	Date/Date
3	100% COMPLETE - ISSUED FOR TENDER	2015/06/04
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1	60% COMPLETE - ISSUED FOR PRELIMINARY REVIEW	2015/04/17
0	33% COMPLETE - ISSUED FOR PRELIMINARY REVIEW	2015/03/19

Client/client: **TRANSPORT CANADA**  
 PENTICTON AIRPORT  
 PENTICTON, BC

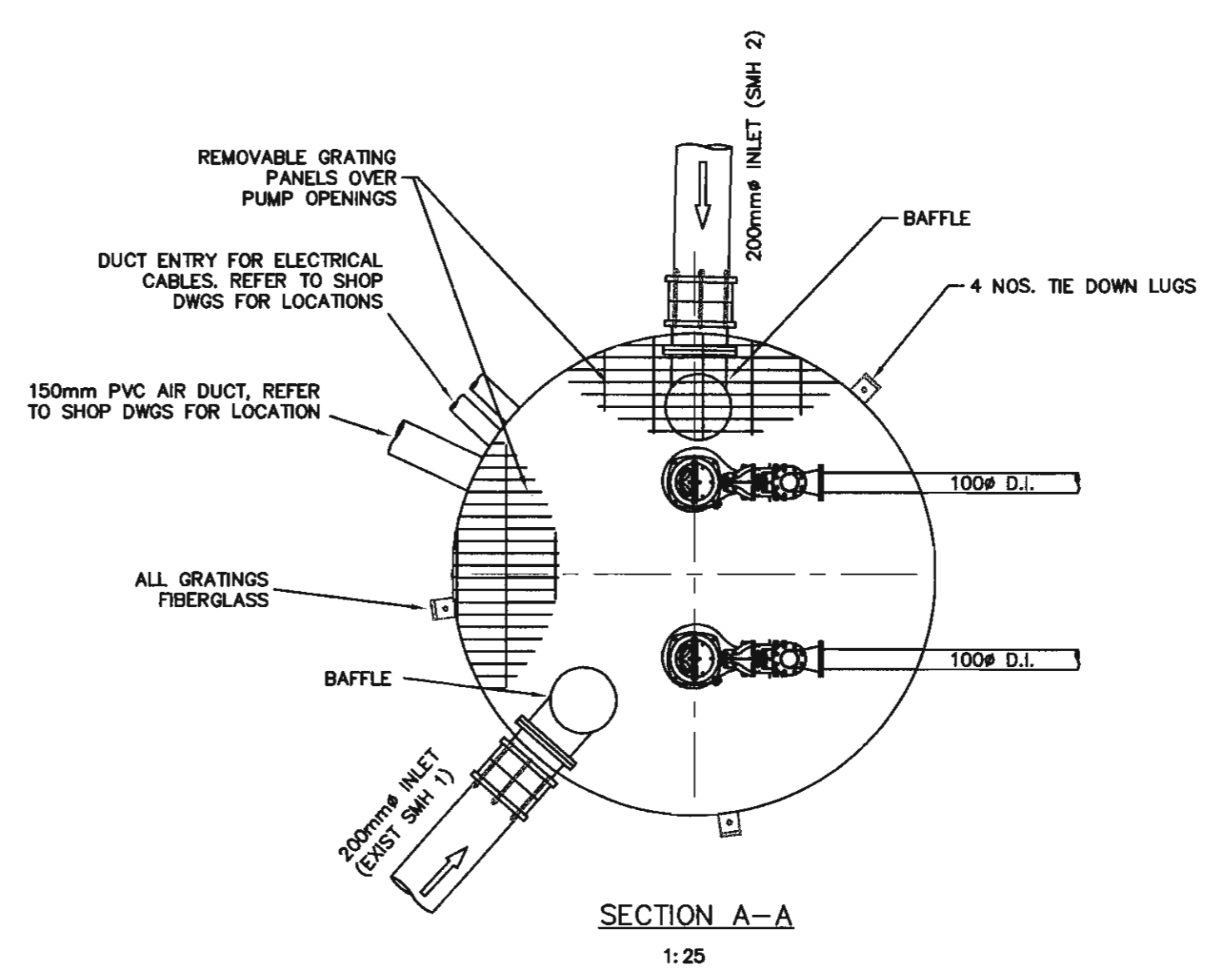
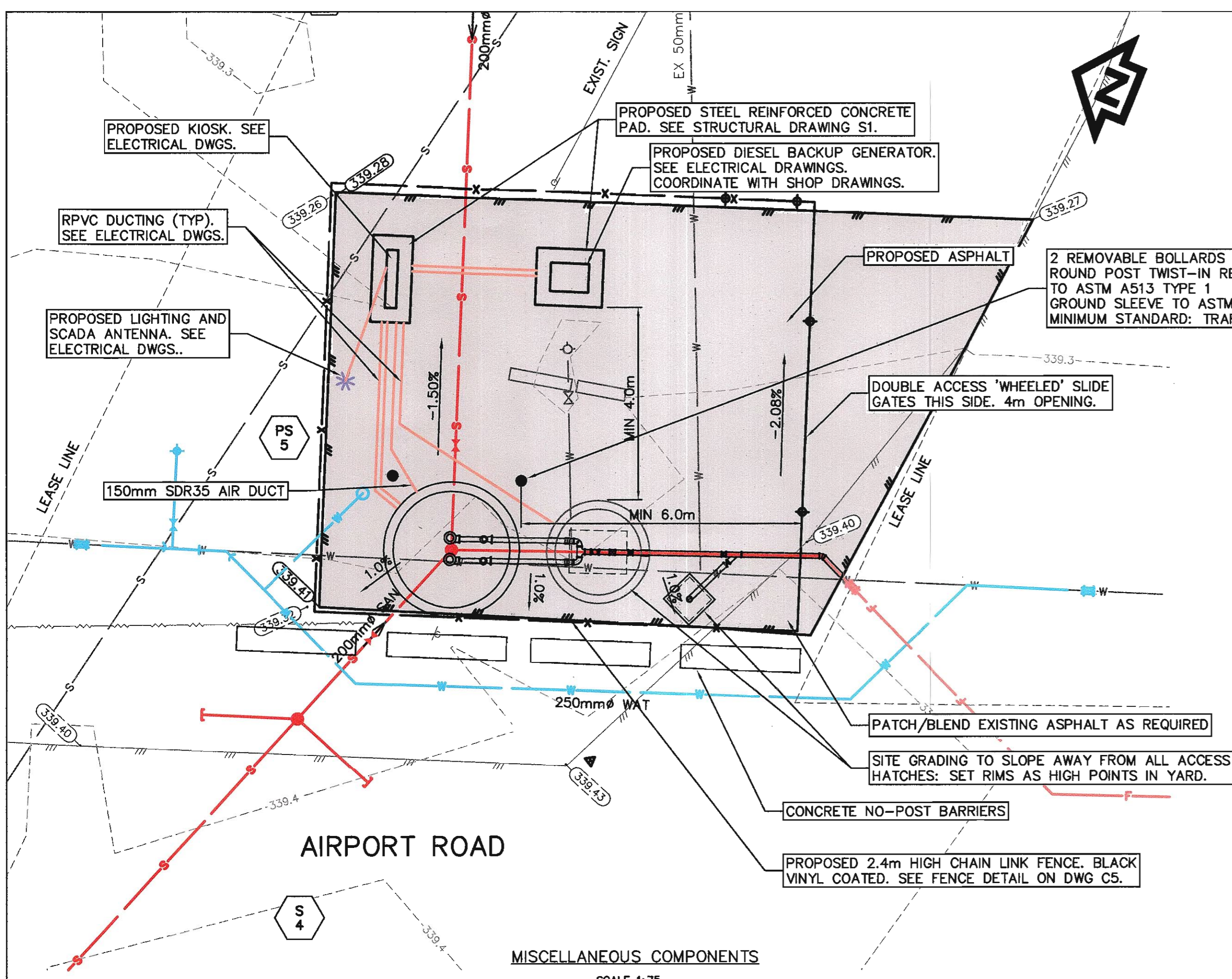
Project title/Titre du projet: **PENTICTON AIRPORT SANITARY LIFT STATION REPLACEMENT**

Consultant Signature Only: **WEDLER ENGINEERING LLP.**  
 Designed by/Concept par: ARG  
 Drawn by/Dessiné par: TJD  
 PWSC Project Manager/Administrateur de Projets TPSOC: **MONIQUE SIMARD**  
 Regional Manager, Architectural and Engineering Services / Gestionnaire régionale, Services d'architecture et de génie, TPSOC

Drawing title/Titre du dessin: **SANITARY SEWER PLAN & PROFILES**

Project No./No. du projet: <b>R.070315.001</b>	Sheet/Feuille: <b>C2</b>	Revision no./La Révision no.: <b>3</b>
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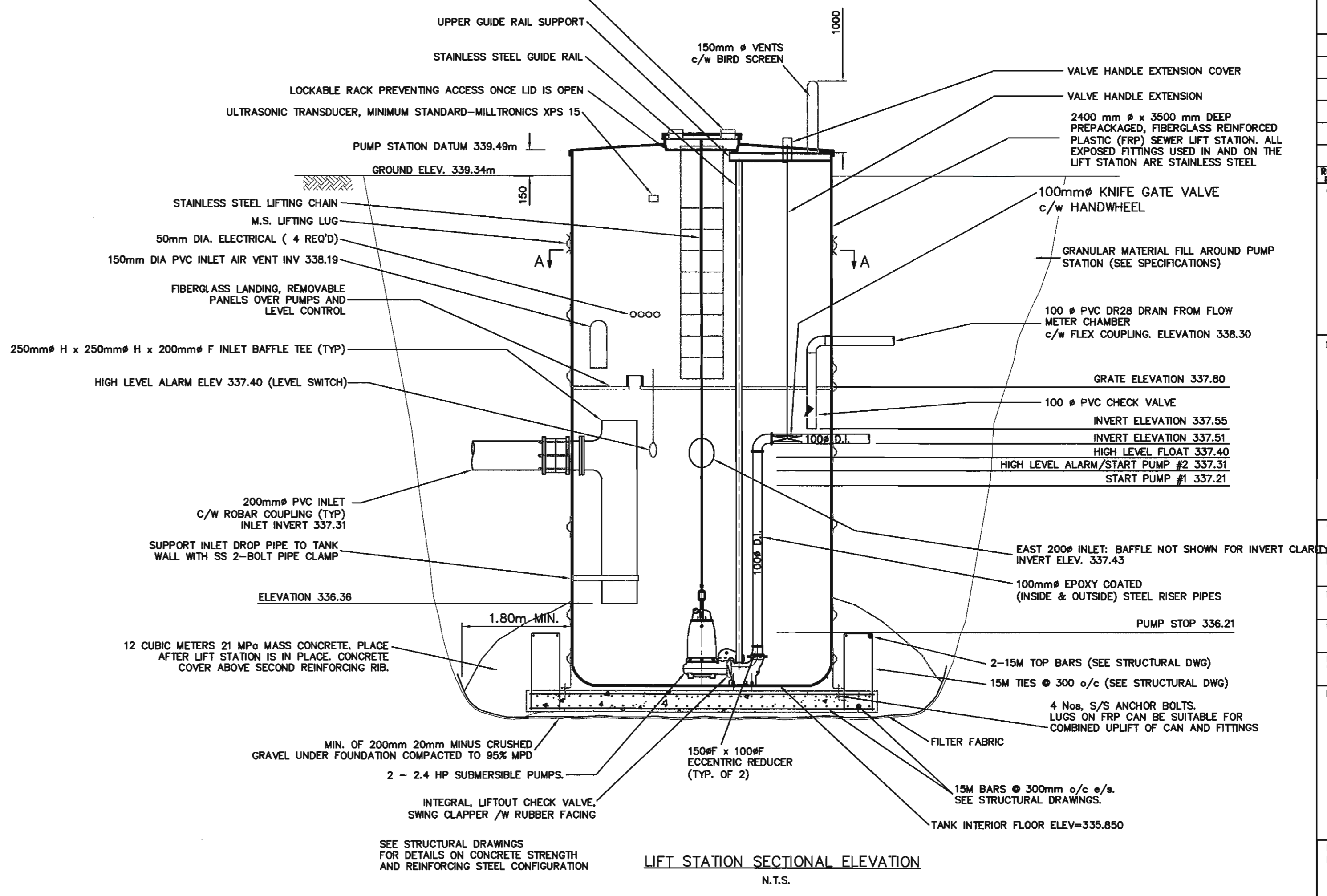
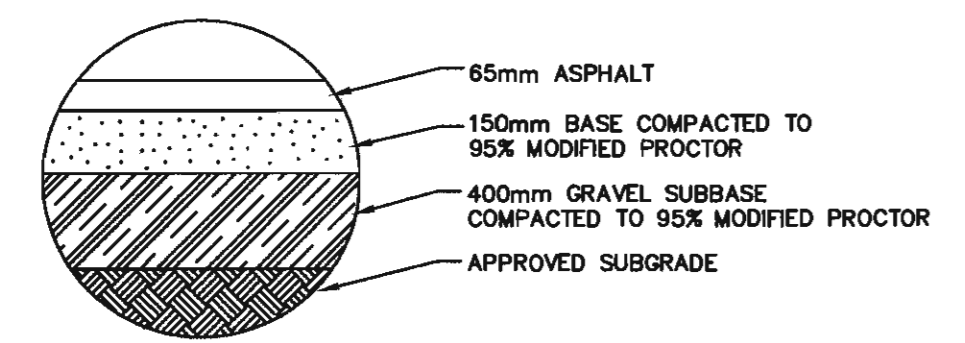




LOCKABLE RECTANGULAR ALUMINUM ACCESS HATCH FRAME & COVER. MINIMUM TWO - 450mm x 1200mm OPENINGS. H2O LOADING, GAS ASSISTED SPRINGS AND INTEGRAL RECESSED LOCKING MECHANISM. CONTRACTOR TO PROVIDE DETAILED SHOP DRAWINGS WITH FULL VALVE CHAMBER AND ACCESS HATCH CONSTRUCTION DETAILS.  
 c/w INTEGRAL SAFETY GRATE FALL PROTECTION SYSTEM: FULL OPENING COVERAGE, PERMANENT HINGING, INTERNAL LOCKING CAPABILITY, H2O RATED, FACTORY PAINTED OSHA ORANGE

**NOTE:**  
ALL FASTENERS AND FITTINGS ARE STAINLESS STEEL

CONTRACTOR TO PROVIDE DETAILED SHOP DRAWINGS WITH FULL LIFT STATION CONSTRUCTION DETAILS



Revision/Modification	Description/Description	Date/Date
3	100% COMPLETE-ISSUED FOR TENDER	2015/06/04
2	90% COMPLETE	2015/04/28
1	80% COMPLETE - ISSUED FOR PRELIMINARY REVIEW	2015/04/17
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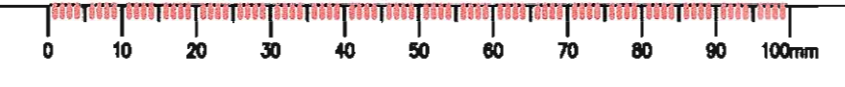
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**TRANSPORT CANADA**  
 PENTICTON AIRPORT  
 PENTICTON, BC

Project title/Titre du projet  
**PENTICTON AIRPORT  
 SANITARY LIFT STATION  
 REPLACEMENT**

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 WEDLER ENGINEERING LLP.  
 Designed by/Concept par ARG  
 Drawn by/Desainé par TJD  
 PWSC Project Manager/Administrateur de Projets TPSC  
 MONIQUE SIMARD  
 Regional Manager, Architectural and Engineering Services  
 Gestionnaire régionale, Services d'architecture et de génie, TPSC

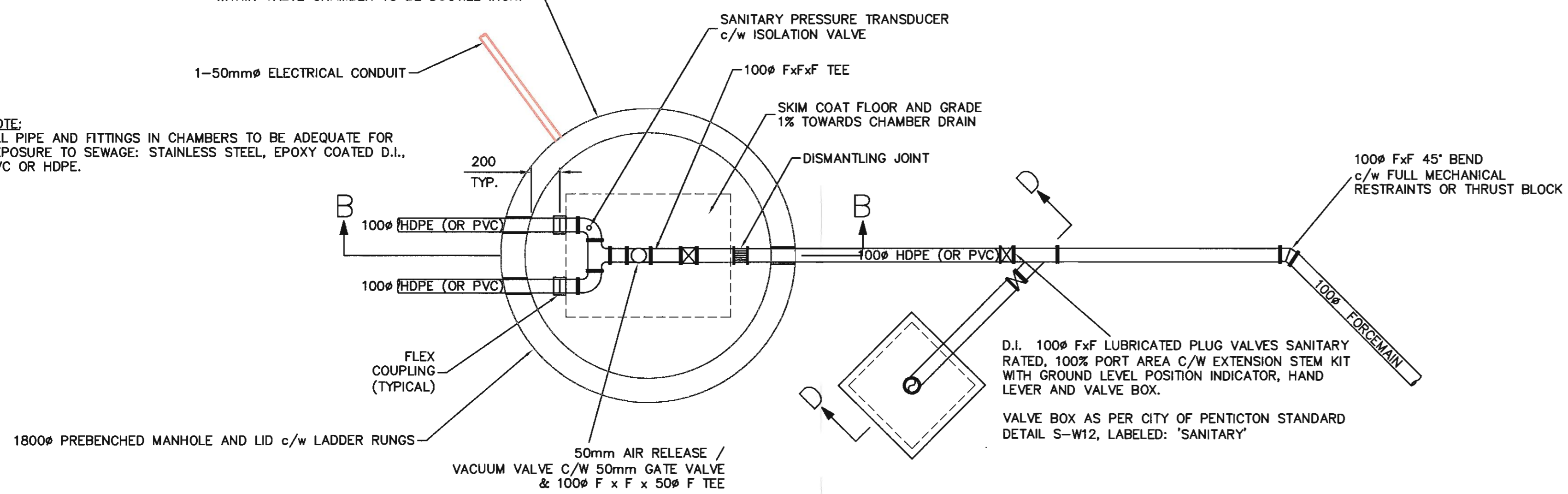
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**SANITARY LIFT STATION DETAILS**

Project No./No. du projet	Sheet/Fauille	Revision no./Révision no.
R.070315.001	C3	3

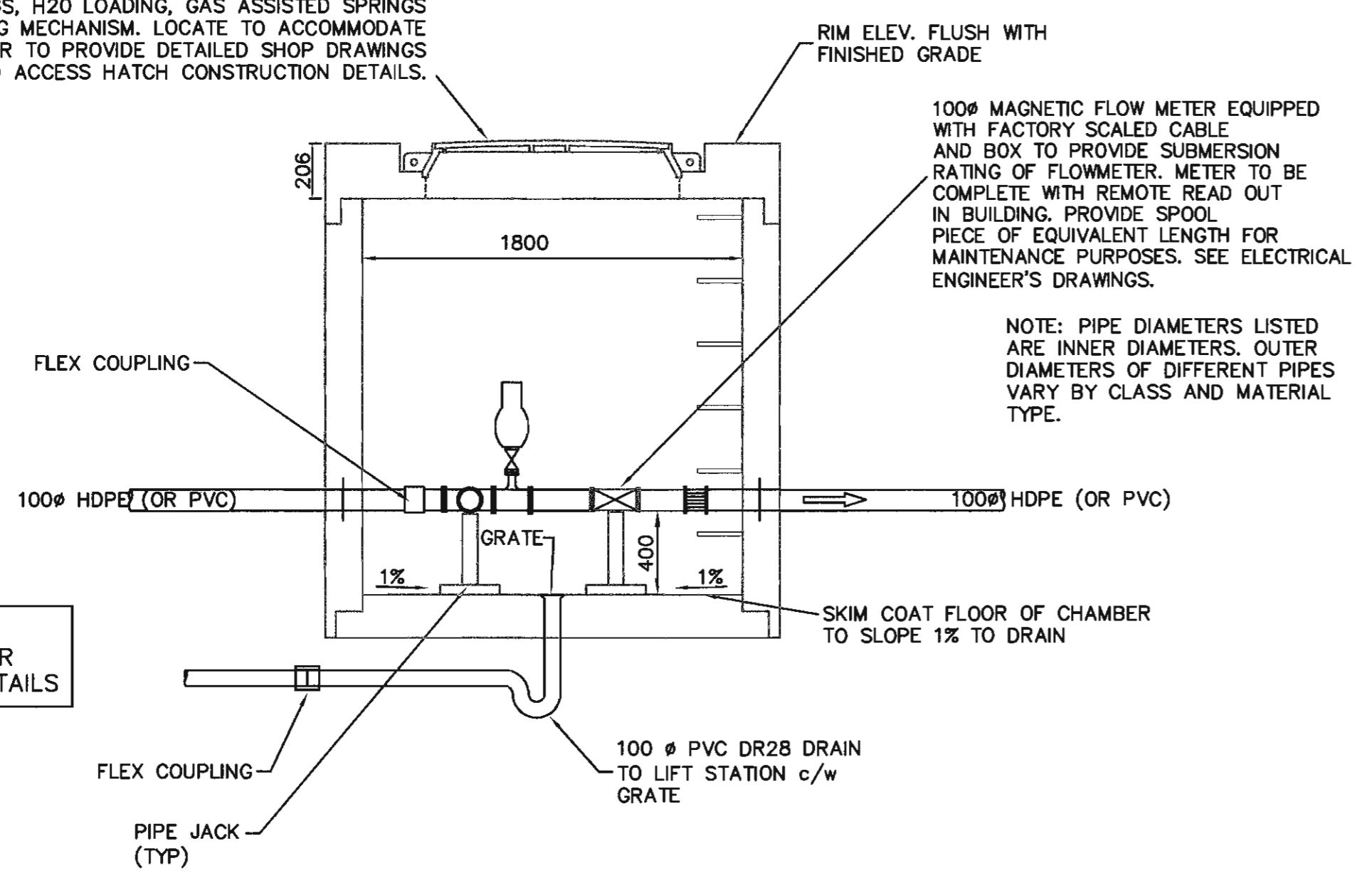


CONTRACTOR TO PROVIDE DETAILED SHOP DRAWINGS WITH FULL VALVE CHAMBER CONSTRUCTION DETAILS. ALL PIPING WITHIN VALVE CHAMBER TO BE DUCTILE IRON.

NOTE:  
 ALL PIPE AND FITTINGS IN CHAMBERS TO BE ADEQUATE FOR EXPOSURE TO SEWAGE: STAINLESS STEEL, EPOXY COATED D.I., PVC OR HDPE.

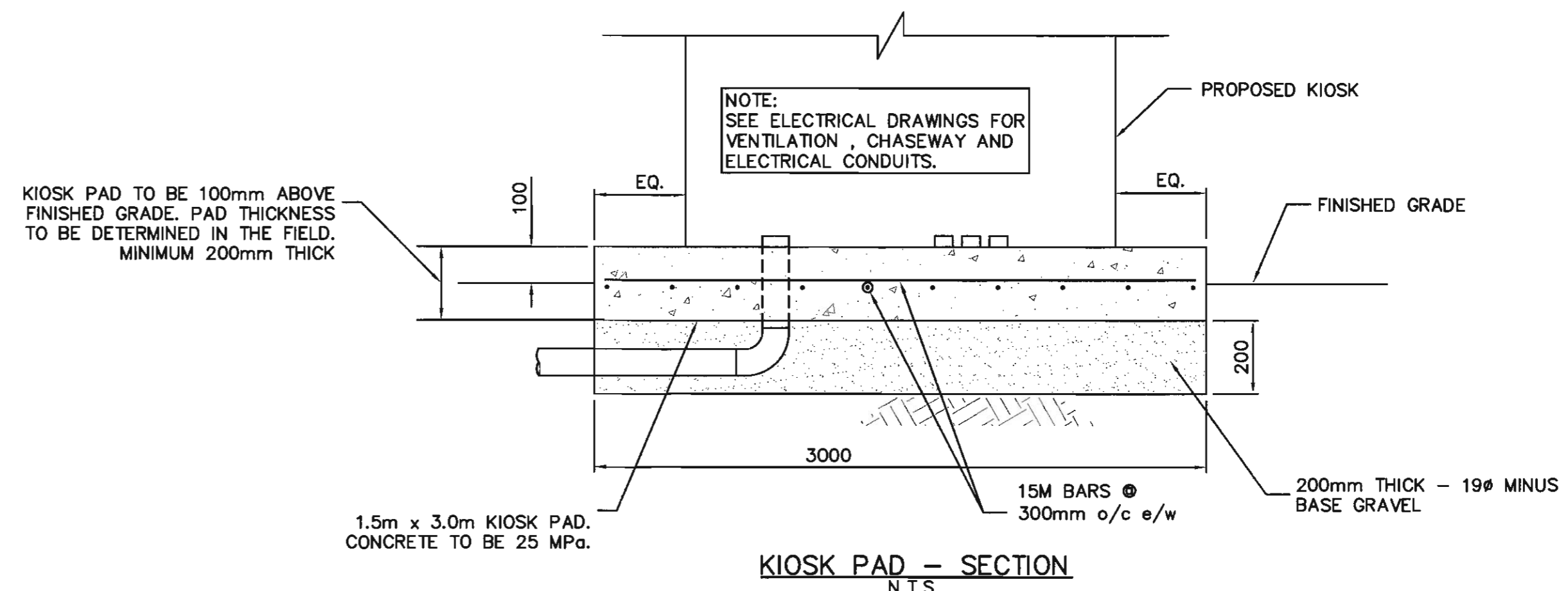


LOCKABLE RECTANGULAR ALUMINUM ACCESS HATCH FRAME & COVER. MINIMUM TWO - 450mm x 1200mm OPENINGS, H<sub>2</sub>O LOADING, GAS ASSISTED SPRINGS AND INTEGRAL RECESSED LOCKING MECHANISM. LOCATE TO ACCOMMODATE EASY FLOWMETER ACCESS. CONTRACTOR TO PROVIDE DETAILED SHOP DRAWINGS WITH FULL VALVE CHAMBER AND ACCESS HATCH CONSTRUCTION DETAILS.

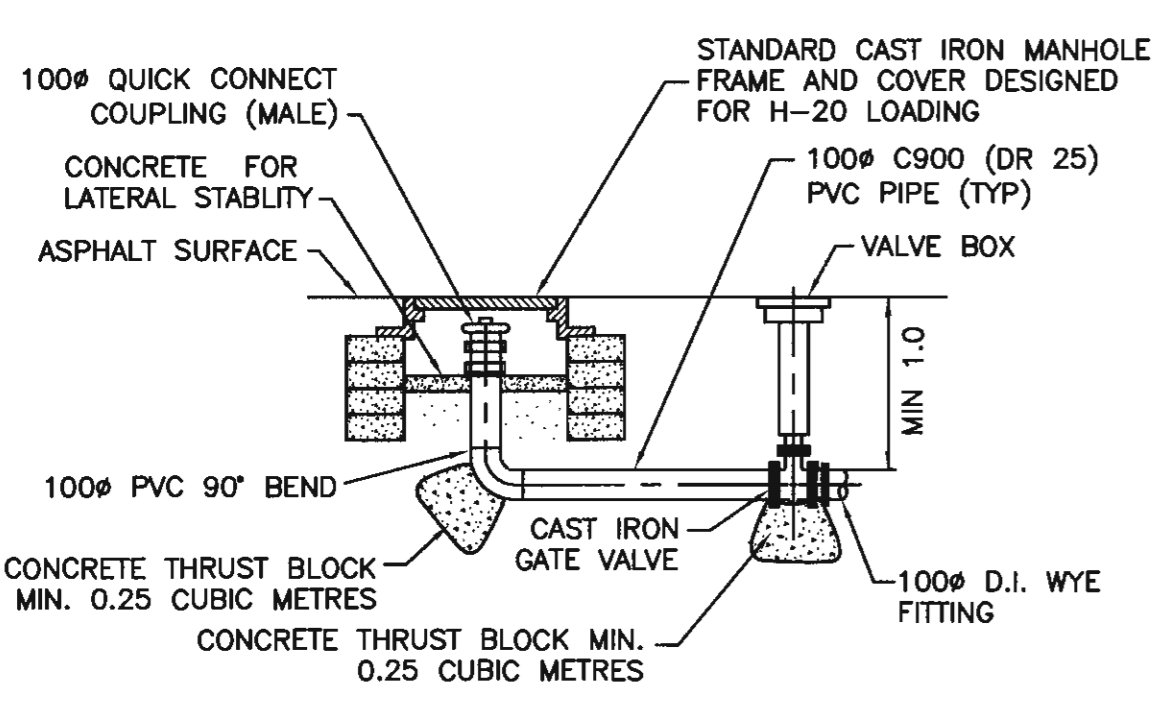


CONTRACTOR TO PROVIDE DETAILED SHOP DRAWINGS WITH FULL CHAMBER AND COMPONENT CONSTRUCTION DETAILS

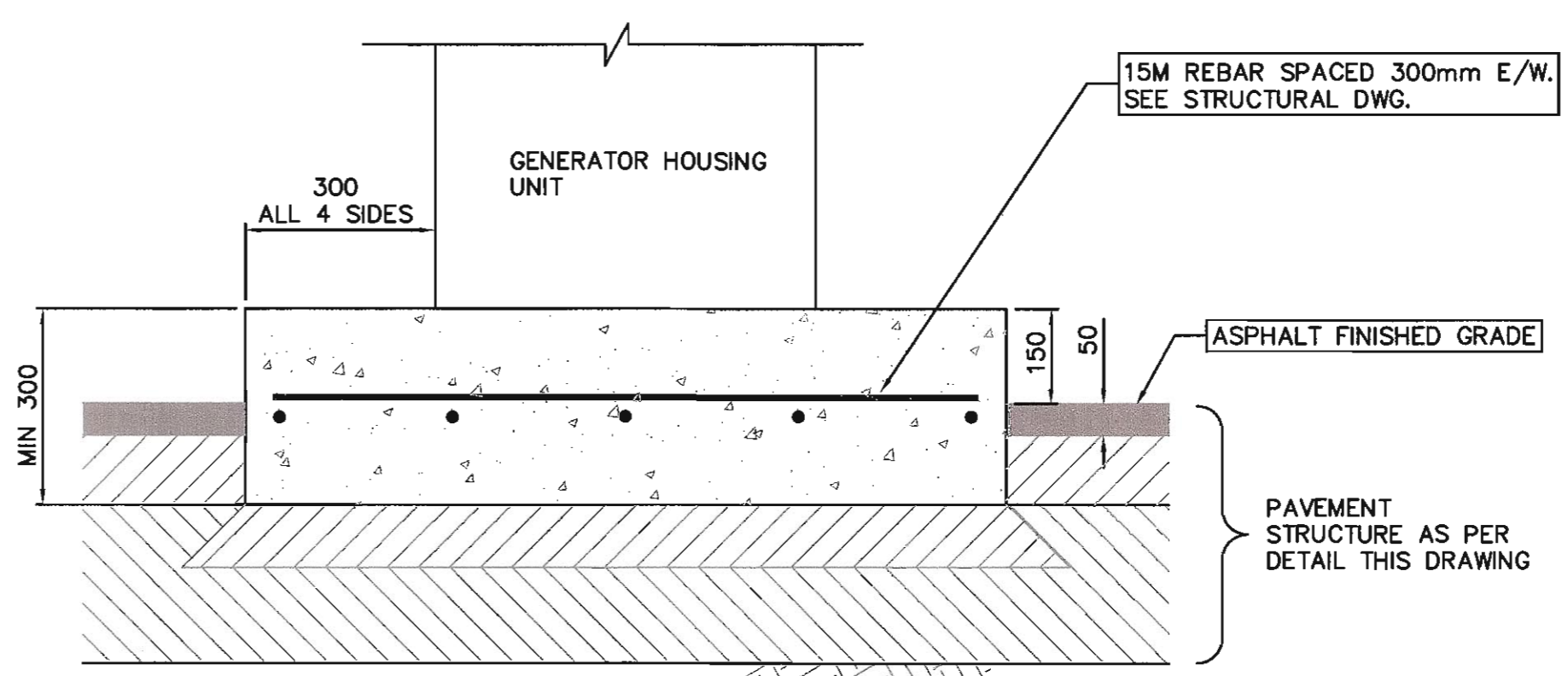
METER AND AIR-RELEASE CHAMBER SECTIONAL ELEVATION  
 SECTION B-B  
 1:25



KIOSK PAD - SECTION  
 N.T.S.



EMERGENCY BY-PASS SECTION D-D  
 N.T.S.



GENERATOR CONCRETE PAD CROSS SECTION  
 N.T.S.

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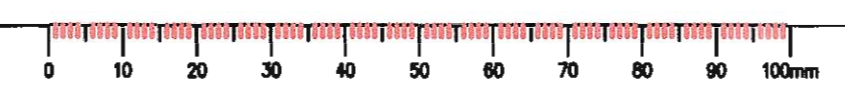
Client/client  
**TRANSPORT CANADA**  
 PENTICTON AIRPORT  
 PENTICTON, BC

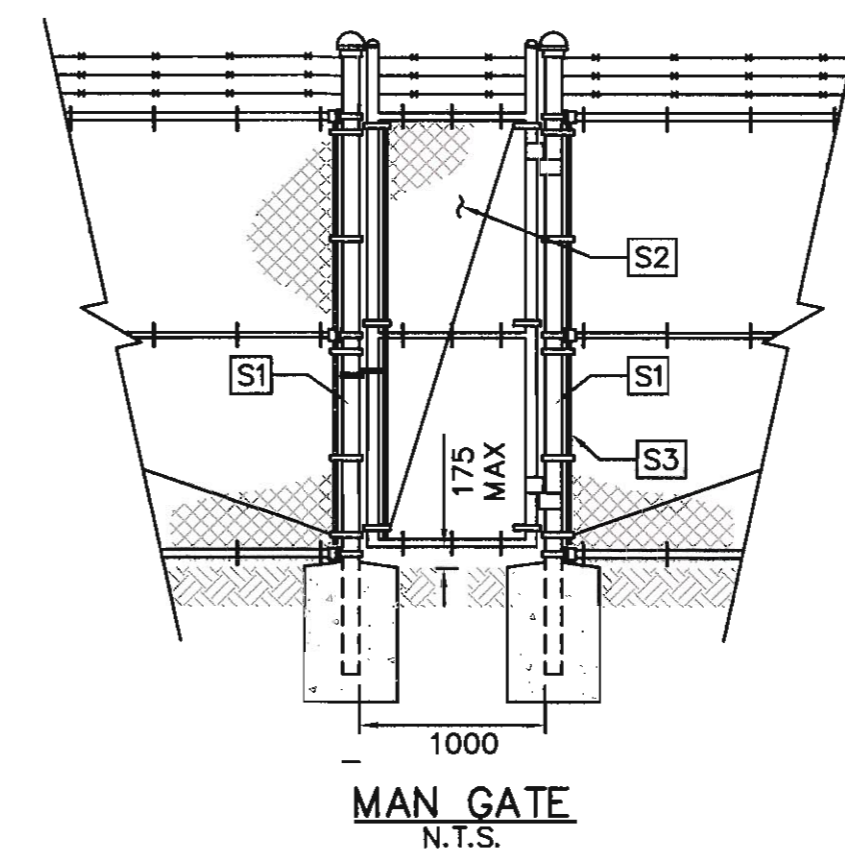
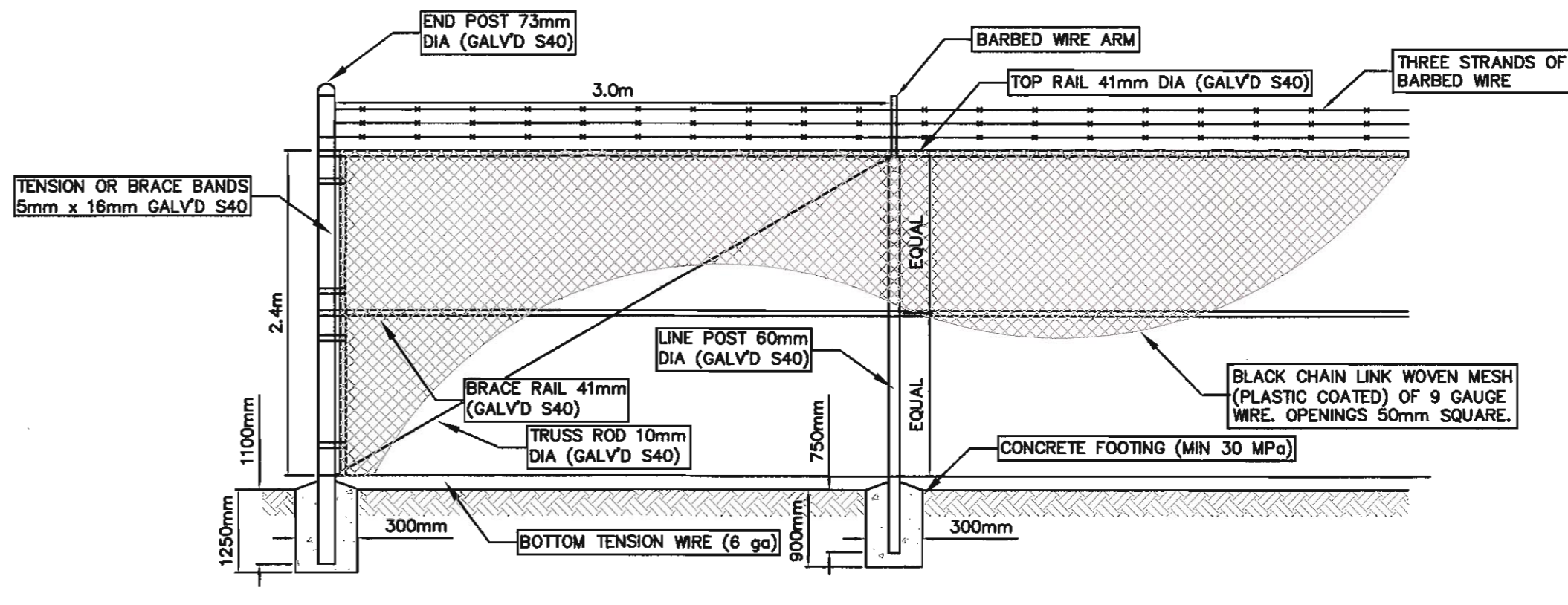
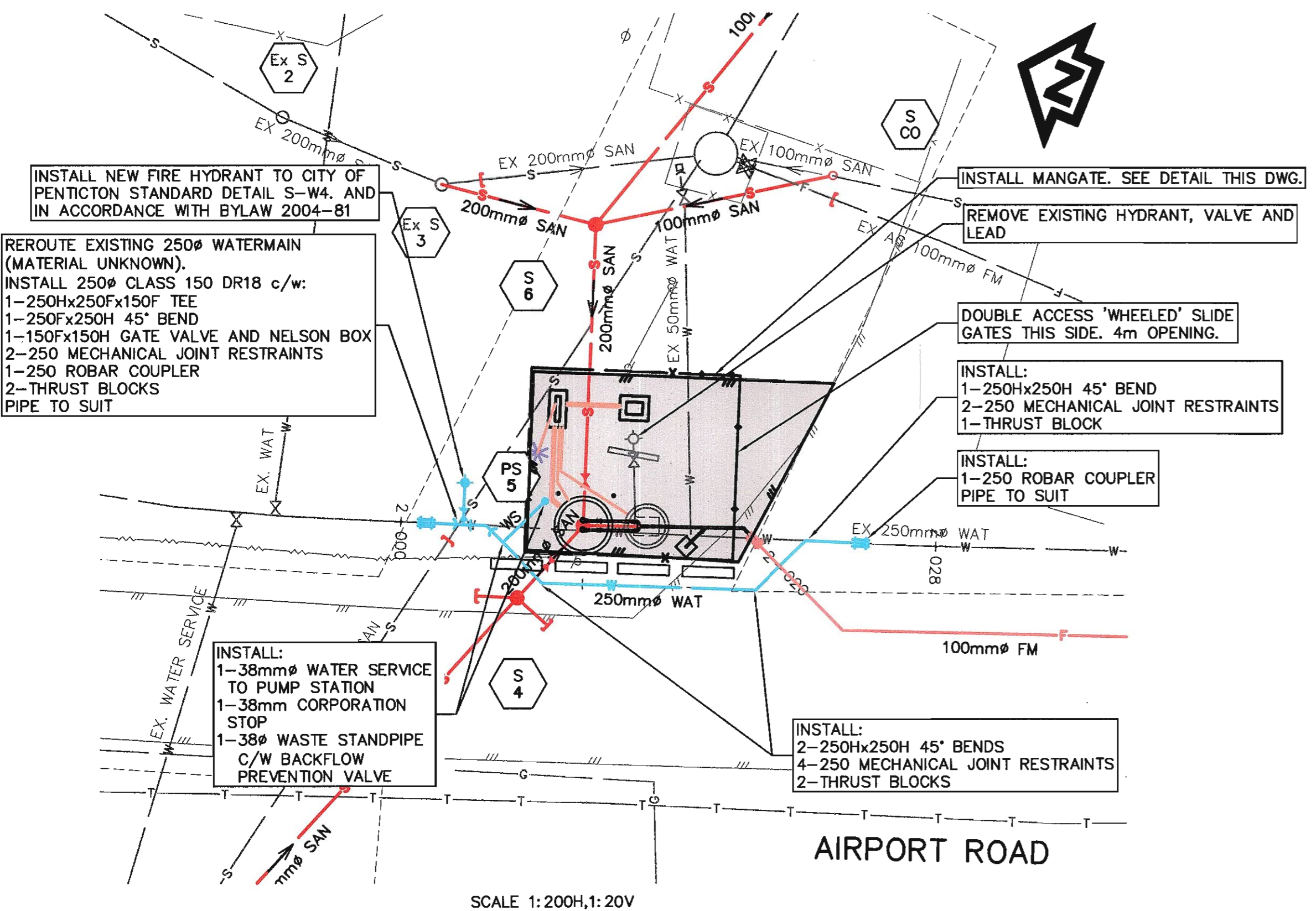
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Drawing title/Titre du dessin  
**FLOW METER & AIR VALVE CHAMBER,  
 KIOSK & GENSET BASES  
 AND MISCELLANEOUS DETAILS**

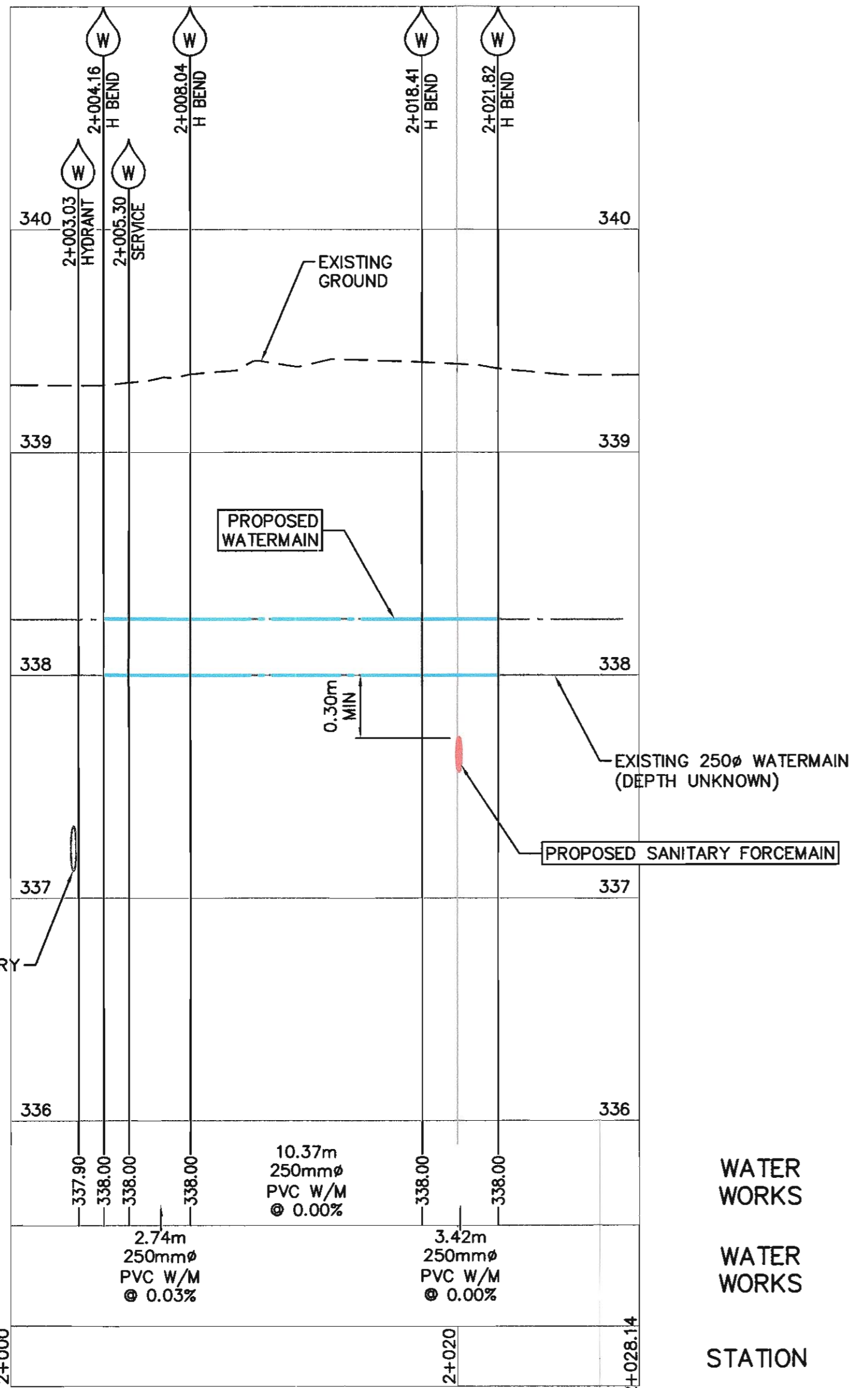
Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
R.070315.001	C4	3





- S1 GATE POST: 88.9 OD x 5.49 STEEL PIPE COMPLETE WITH DOME TOP FOR GATE POST AND APPROPRIATE RIGID ARM TO ACCOMMODATE BARBED WIRE, ONE HORIZONTAL 42.2 OD x 3.56 BRACING PIPE AND ONE TENSION BAR WITH BRACE AND TENSION BANDS, ONE 10 DIA TRUSS ROD AND TURNBUCKLE ASSEMBLY.
- S2 GATE: MAN GATE, SINGLE SWING 1.0m WIDE, 42.0 OD x 3.56 PIPE FRAME WITH MATCHING FABRIC AND BARBED WIRE, TWO GATE HINGES 180° SWING FOR 88.9 OD x 5.49 PIPE, WITH TENSION BARS AND TENSION BANDS, 10 DIA TRUSS ROD AND TURNBUCKLE ASSEMBLY, STANDARD LOCKING DEVICE.
- S3 TENSION BAR: 19.0 x 4.8 ON TERMINAL POSTS AND GATES. TENSION BAND: SPACED 220 MAX.

**NOTE:**  
 SHRINK WRAP ALL WATERMAIN JOINTS AND FITTINGS WITHIN 3m OF SANITARY CROSSINGS.  
 JOINT WRAP MATERIAL AS PER AWWA C214, C209, C217



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Client/client

**TRANSPORT CANADA**

PENTICTON AIRPORT  
 PENTICTON, BC

Project title/Titre du projet

**PENTICTON AIRPORT  
 SANITARY LIFT STATION  
 REPLACEMENT**

Consultant Signature Only  
 WEDLER ENGINEERING LLP.  
 Designed by/Concept par ARG  
 Drawn by/Dessiné par TJD

PWGSC Project Manager/Administrateur de Projets TPSGC  
 MONIQUE SIMARD

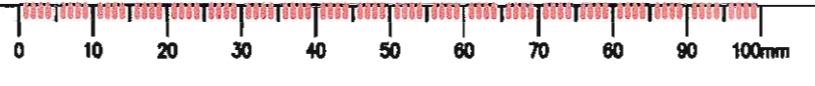
Regional Manager, Architectural and Engineering Services  
 Gestionnaire régional, Services d'architecture et de génie, TPSGC

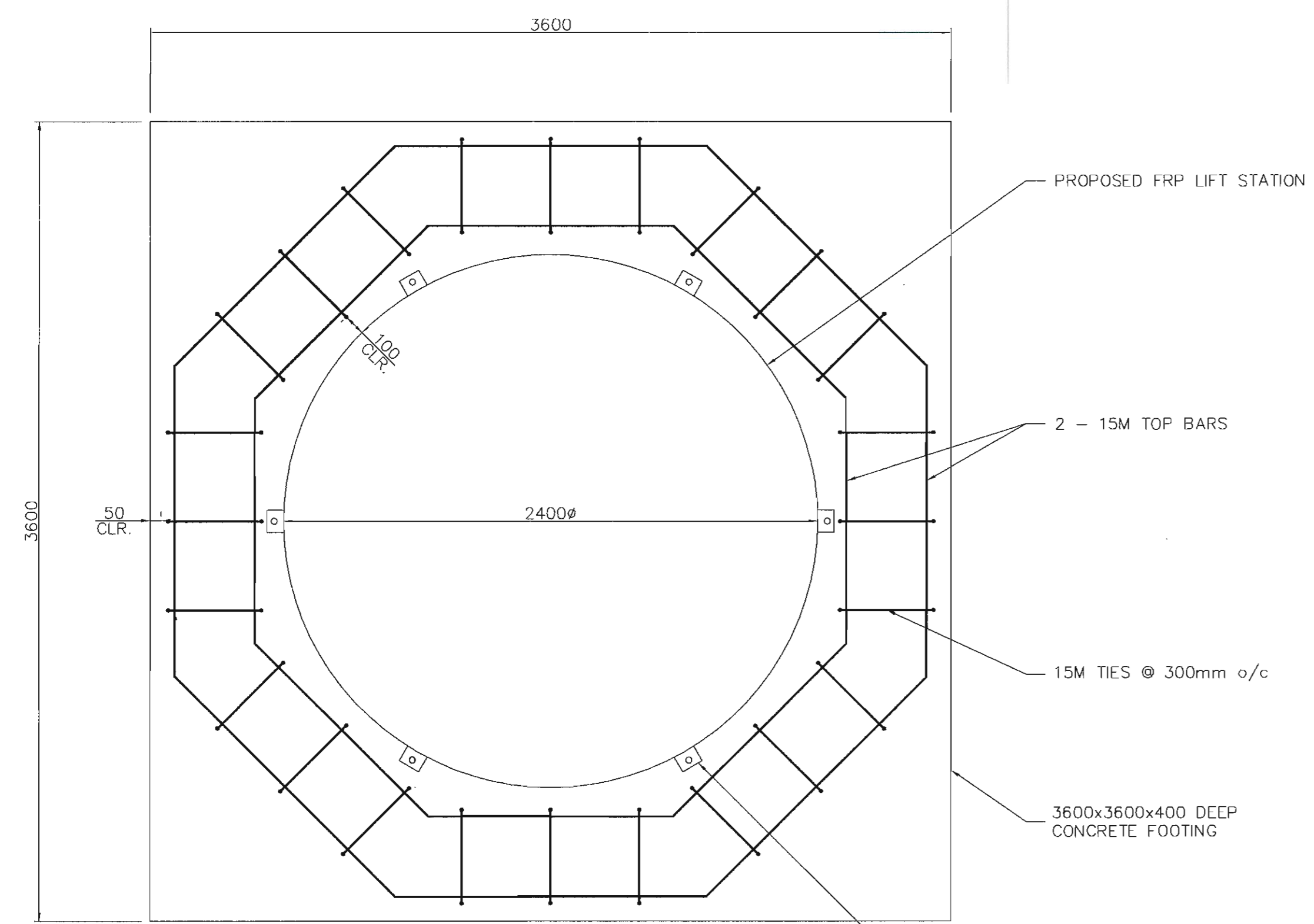
Drawing title/Titre du dessin

**WATERMAIN  
 AND FENCE DETAILS**

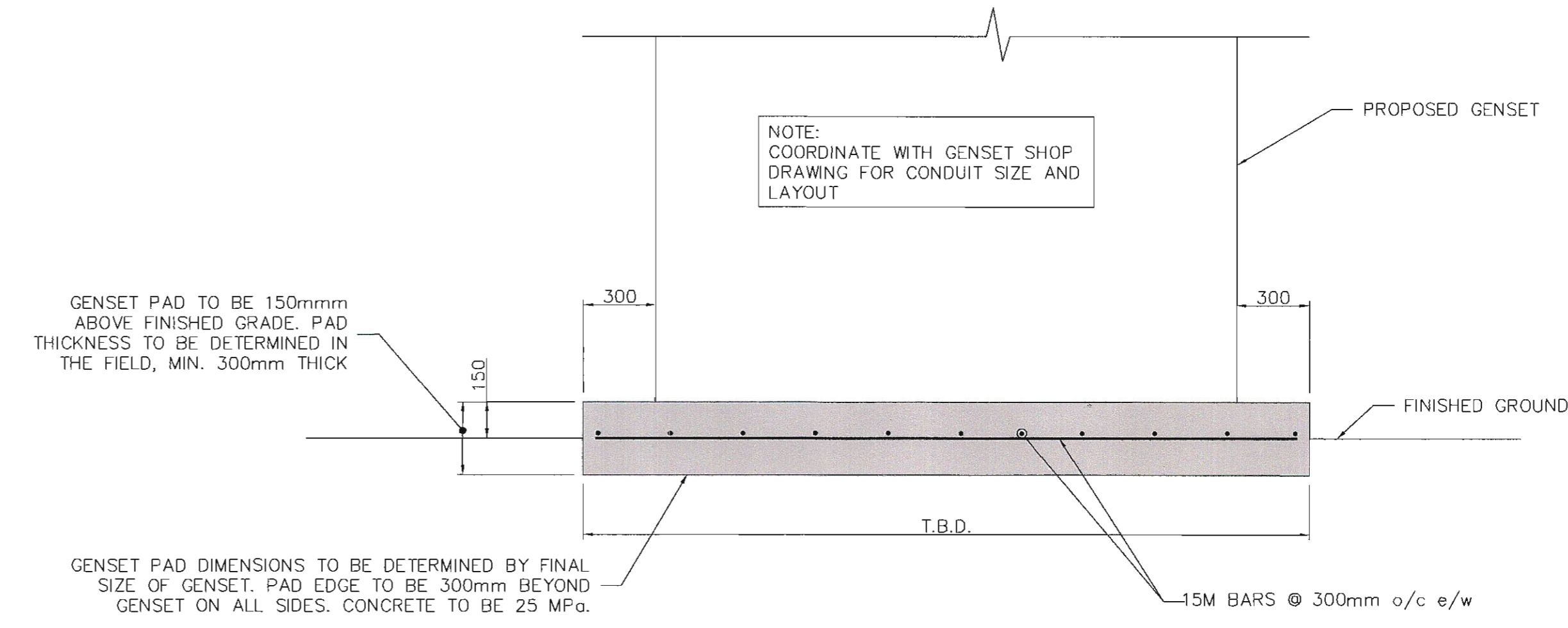
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 Sheet/Feuille: C5  
 Revision no./La Révision no.: 3

SCALE 1: 200H, 1: 20V

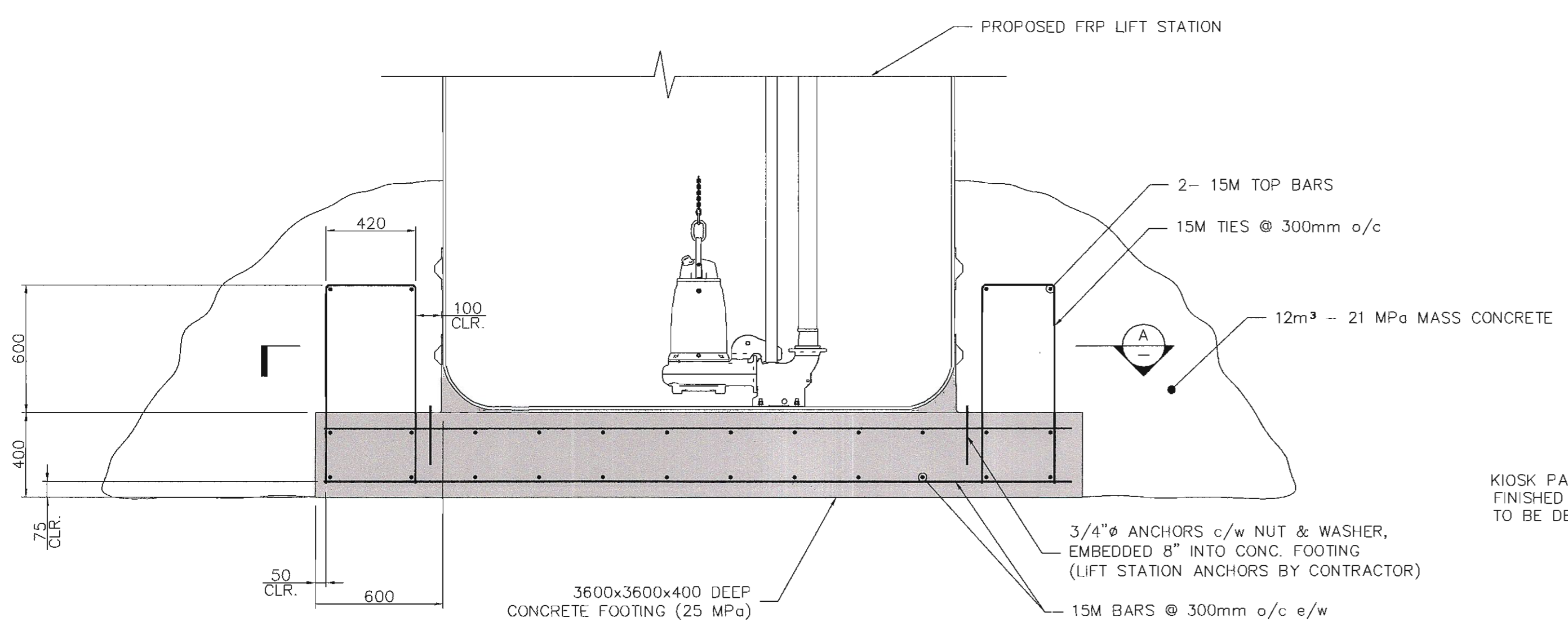




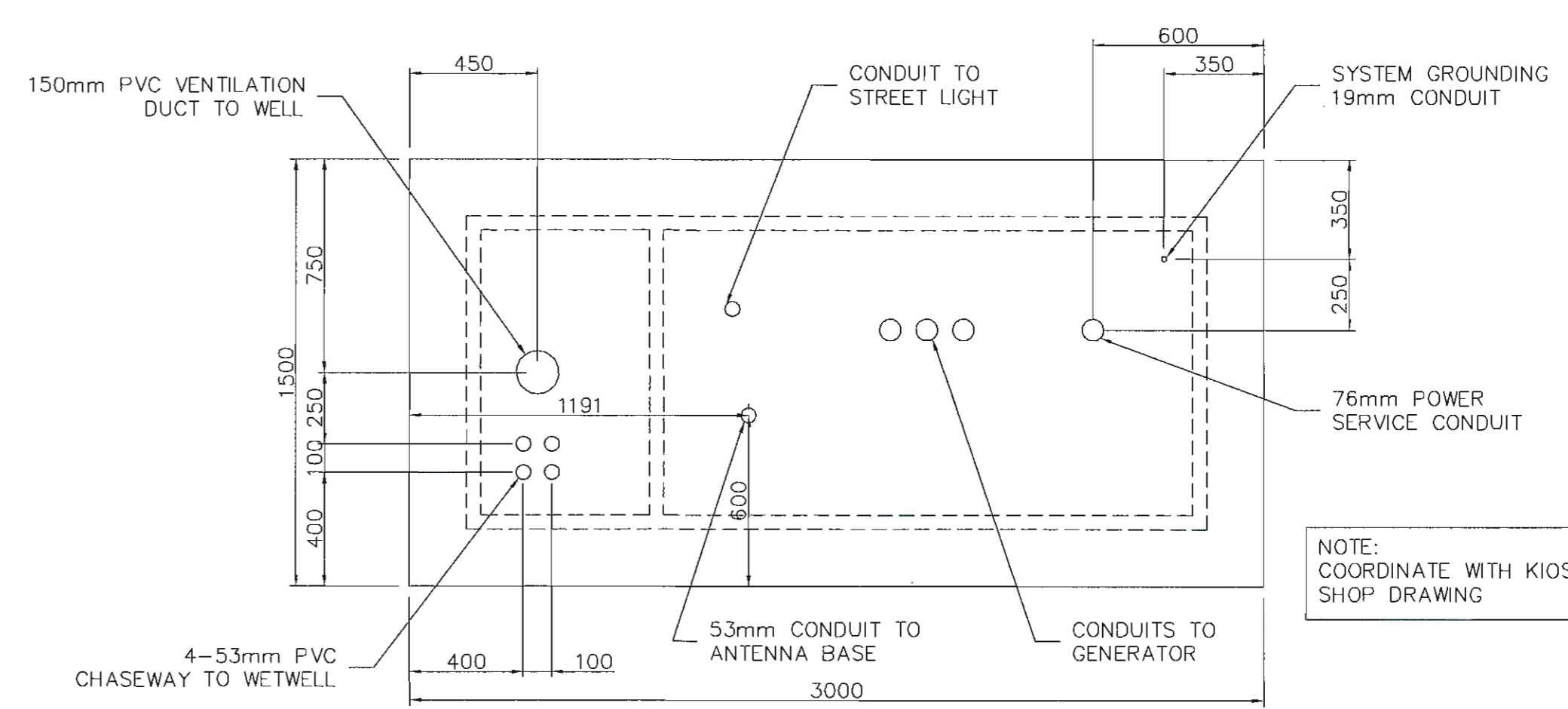
SECTION A  
SCALE: 1:20



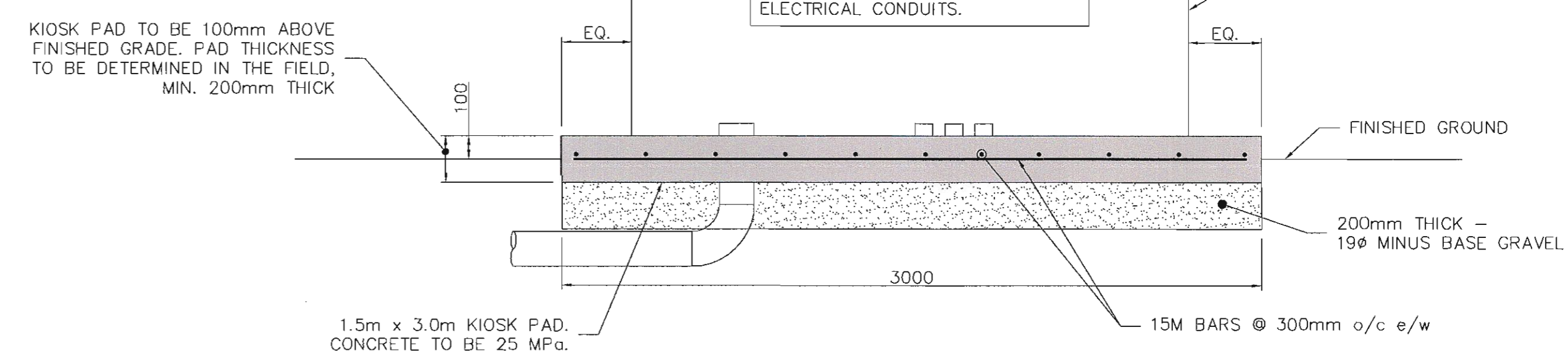
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SCALE: 1:20



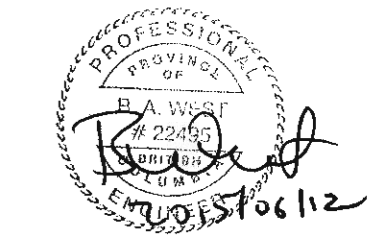
LIFT STATION BASE DETAIL  
SCALE: 1:20



KIOSK PAD - PLAN VIEW  
SCALE: 1:20



KIOSK PAD - SECTION  
SCALE: 1:20



Revision/Revision	Description/Description	Date/Date
3	100% COMPLETE - ISSUED FOR TENDER	2015/06/04
2	99% COMPLETE - ISSUED FOR PRELIMINARY REVIEW	2015/05/01
1	66% COMPLETE - ISSUED FOR PRELIMINARY REVIEW	2015/04/17
0	33% COMPLETE - ISSUED FOR PRELIMINARY REVIEW	2015/03/19

TRANSPORT CANADA

PENTICTON AIRPORT  
PENTICTON, BC

Project title/Titre du projet

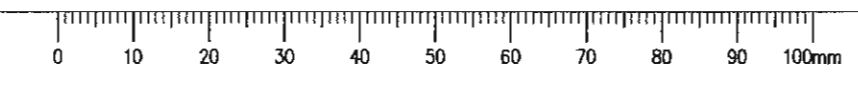
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SANITARY LIFT STATION  
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MONIQUE SIMARD  
Regional Manager, Architectural and Engineering Services  
Gestionnaire régionale, Services d'architecture et de génie, TPSGC

Drawing title/Titre du dessin

LIFT STATION AND  
KIOSK & GENSET PAD  
DETAILS AND SECTIONS

Project No./No. du projet	Sheet/Fauille	Revision no./La Révision no.
R.070315.001	S1	3





Revision/	Description/Description	Date/Date
3	100% COMPLETE - ISSUED FOR TENDER	2015/08/04
2	99% COMPLETE	2015/04/28
1	88% COMPLETE - ISSUED FOR PRELIMINARY REVIEW	2015/04/17
0	33% COMPLETE - ISSUED FOR PRELIMINARY REVIEW	2015/03/19

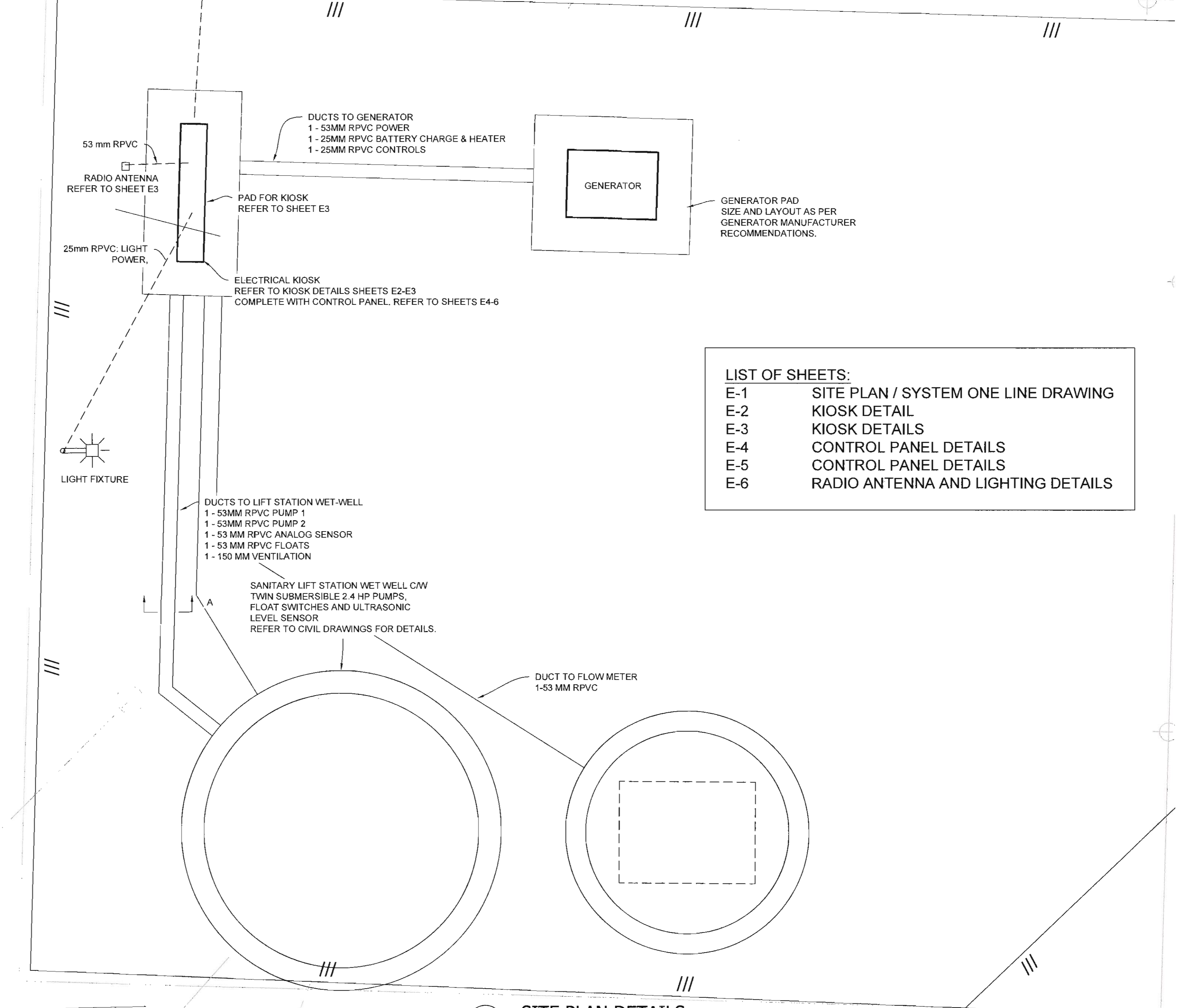
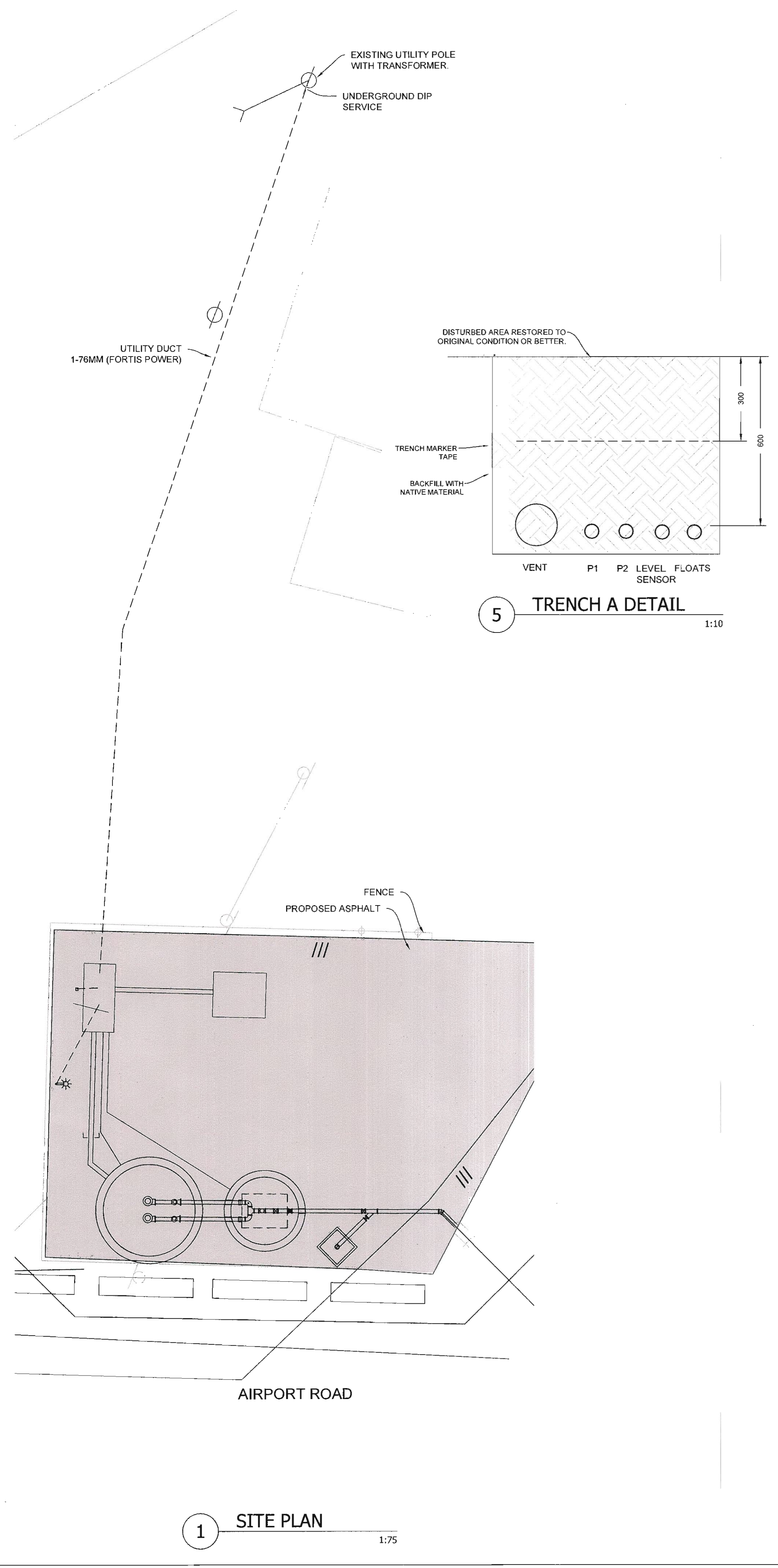
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**PENTICTON AIRPORT**  
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Project title/Titre du projet  
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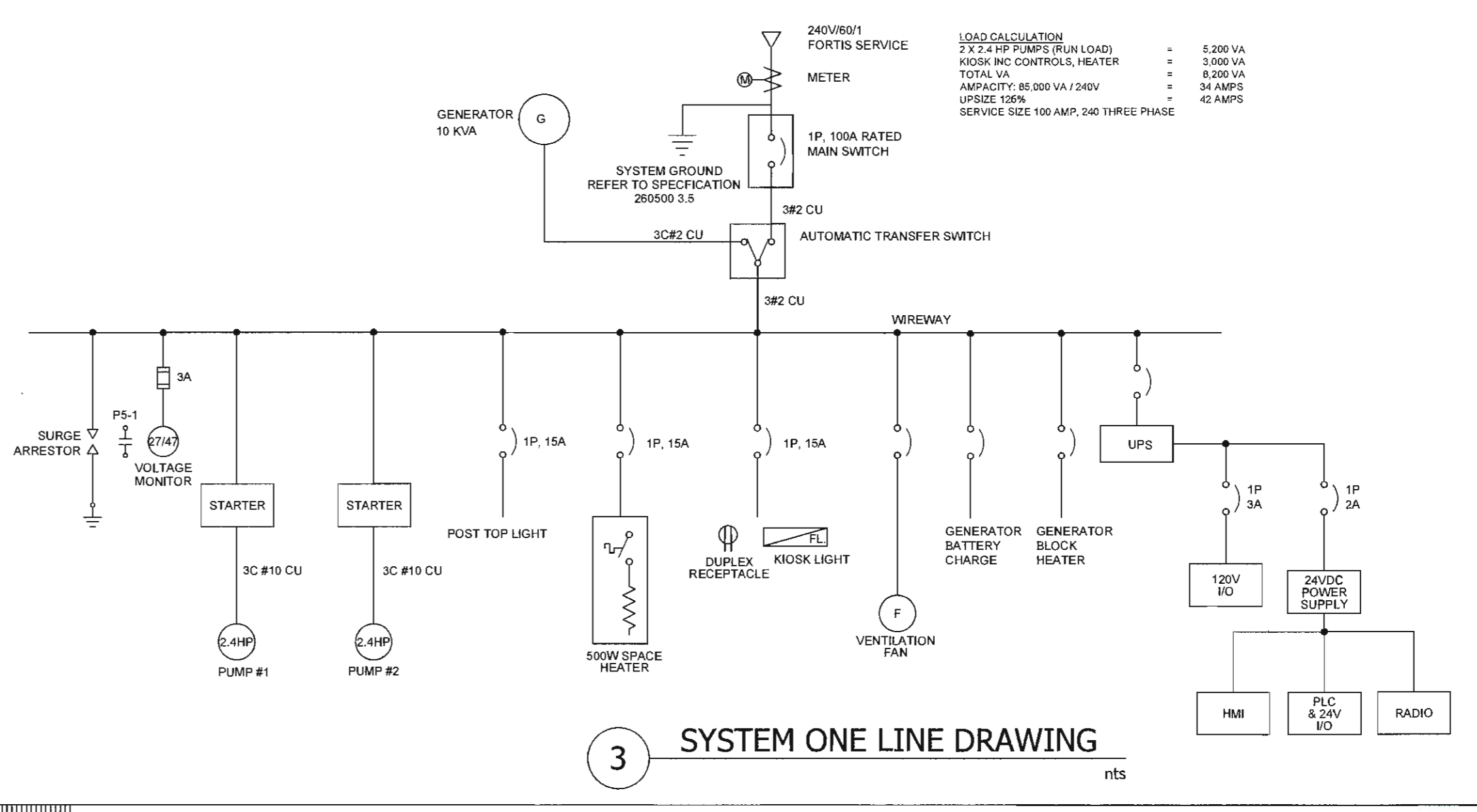
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Drawing title/Titre du dessin  
**SITE PLAN /**  
**SYSTEM ONE LINE DRAWING**

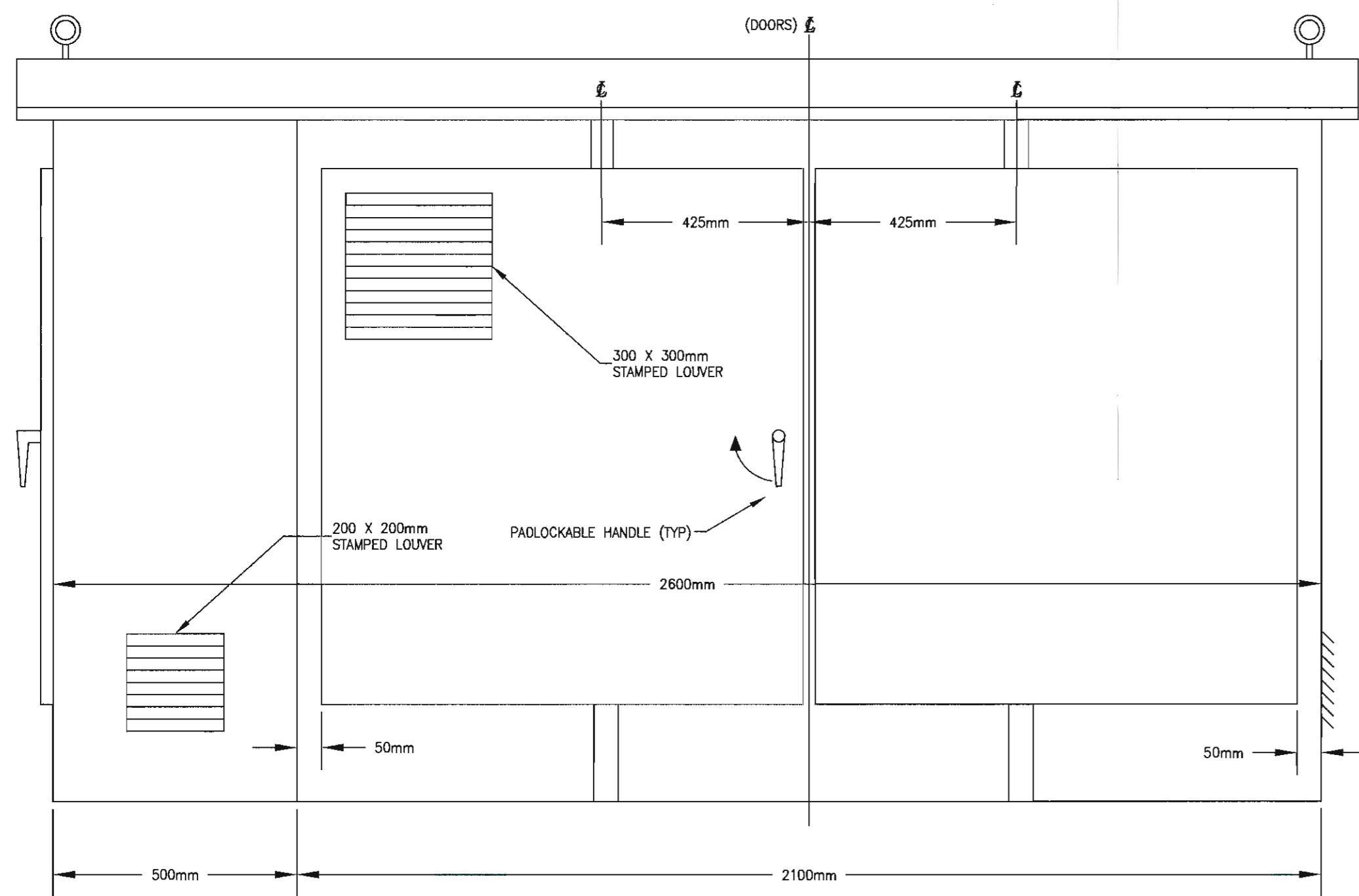
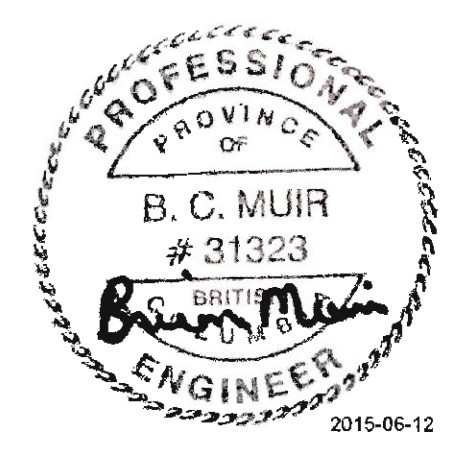
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R.070315.001	<b>E1</b>	<b>3</b>



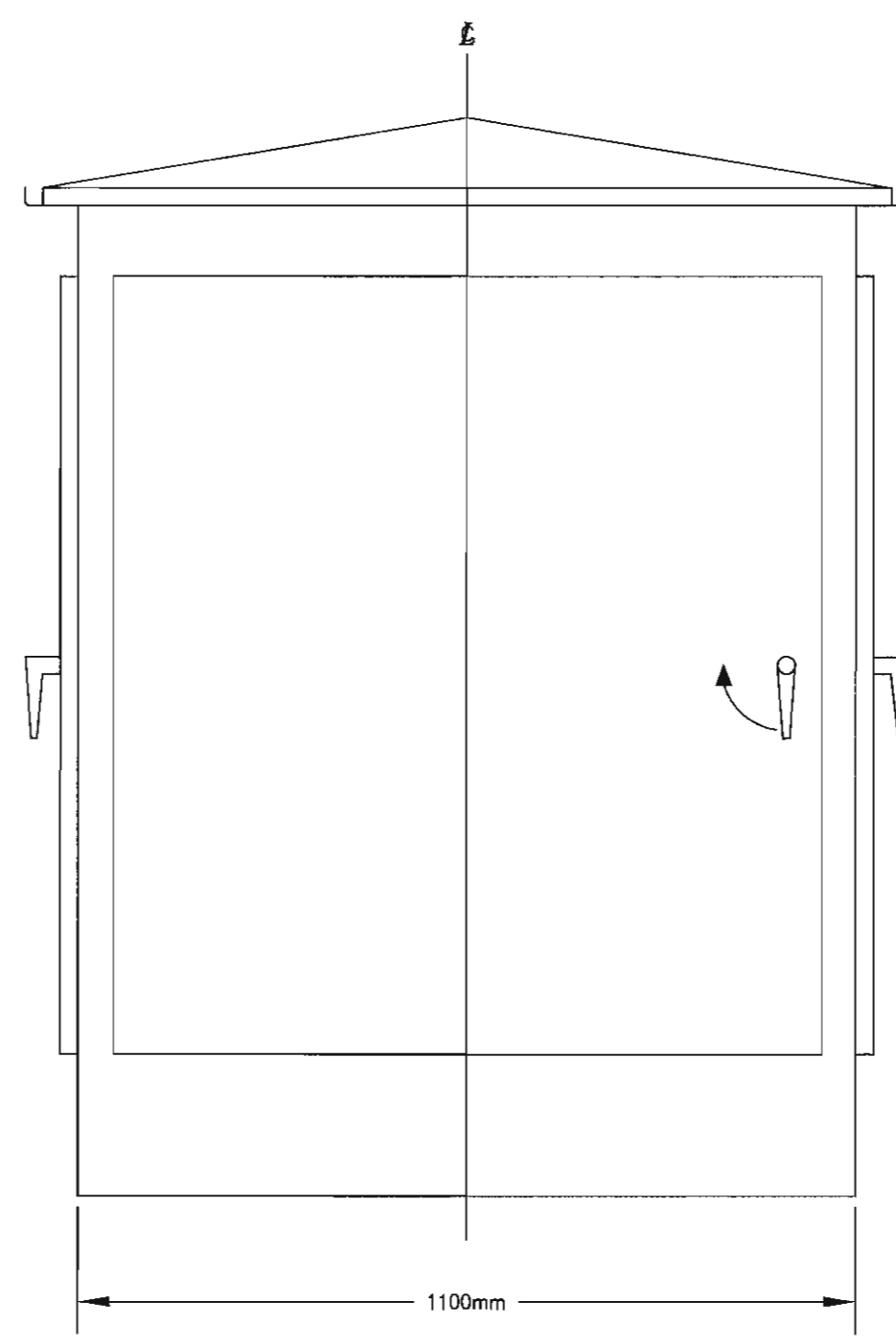
- LIST OF SHEETS:**
- E-1 SITE PLAN / SYSTEM ONE LINE DRAWING
  - E-2 KIOSK DETAIL
  - E-3 KIOSK DETAILS
  - E-4 CONTROL PANEL DETAILS
  - E-5 CONTROL PANEL DETAILS
  - E-6 RADIO ANTENNA AND LIGHTING DETAILS



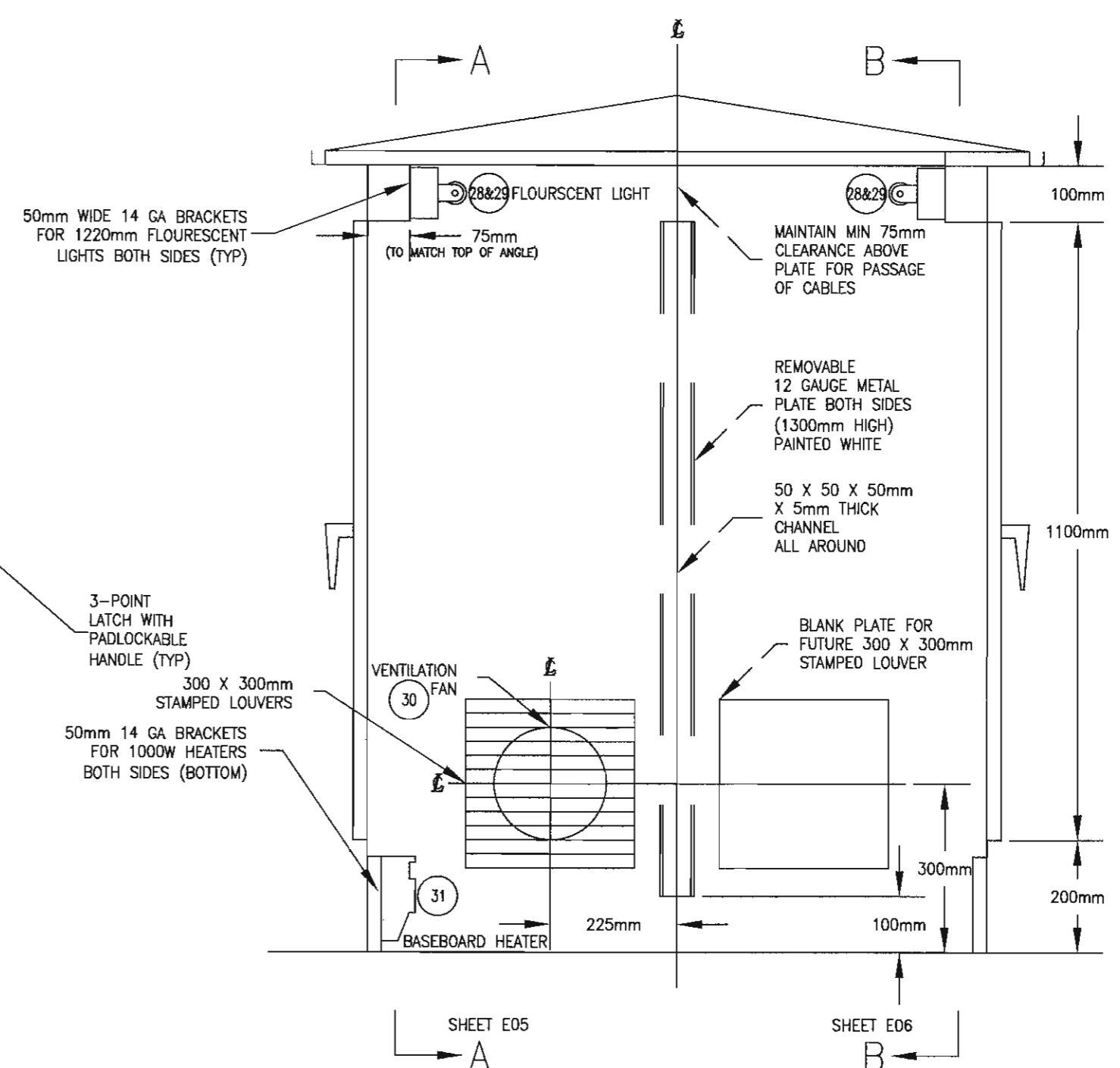




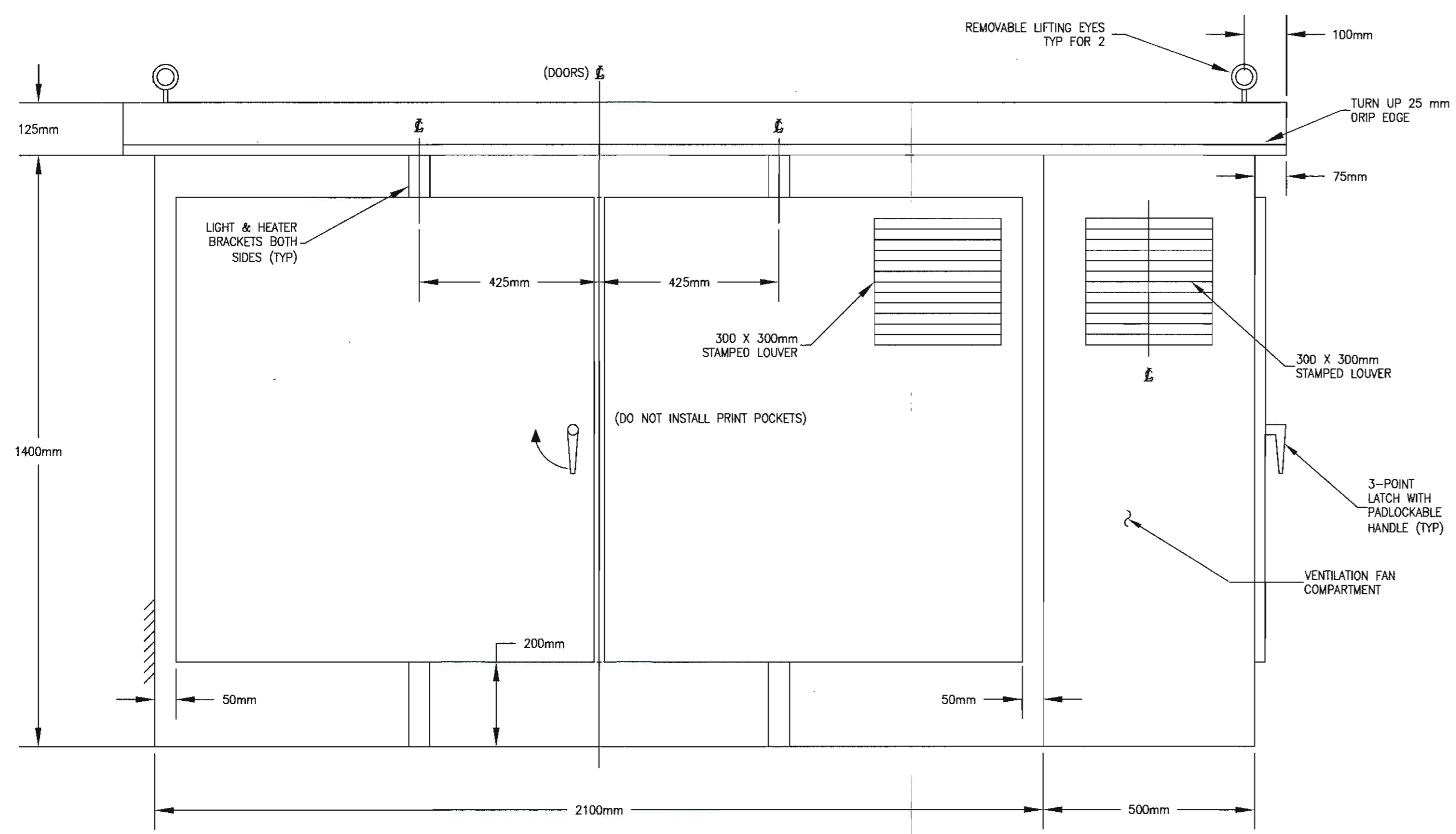
LIFT STATION KIOSK CONTROL SIDE



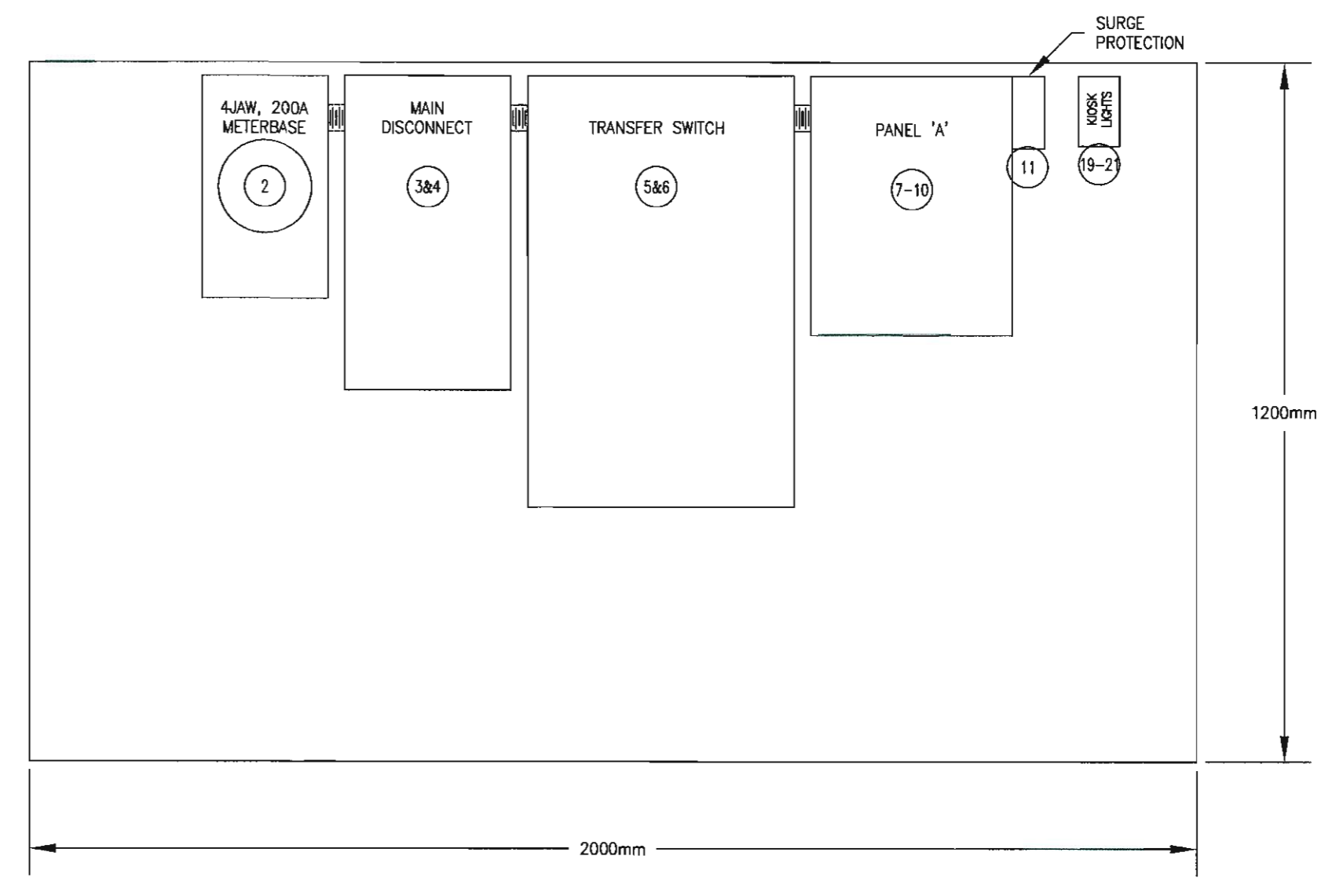
LIFT STATION KIOSK SIDE VIEW



LIFT STATION KIOSK SECTION 'A'



LIFT STATION KIOSK POWER SIDE



LIFT STATION KIOSK SECTION 'A'

Revision/	Description/Description	Date/Date
3	100% COMPLETE - ISSUED FOR TENDER	2015/06/04
2	99% COMPLETE	2015/04/28
1	66% COMPLETE - ISSUED FOR PRELIMINARY REVIEW	2015/04/17
0	33% COMPLETE - ISSUED FOR PRELIMINARY REVIEW	2015/03/19

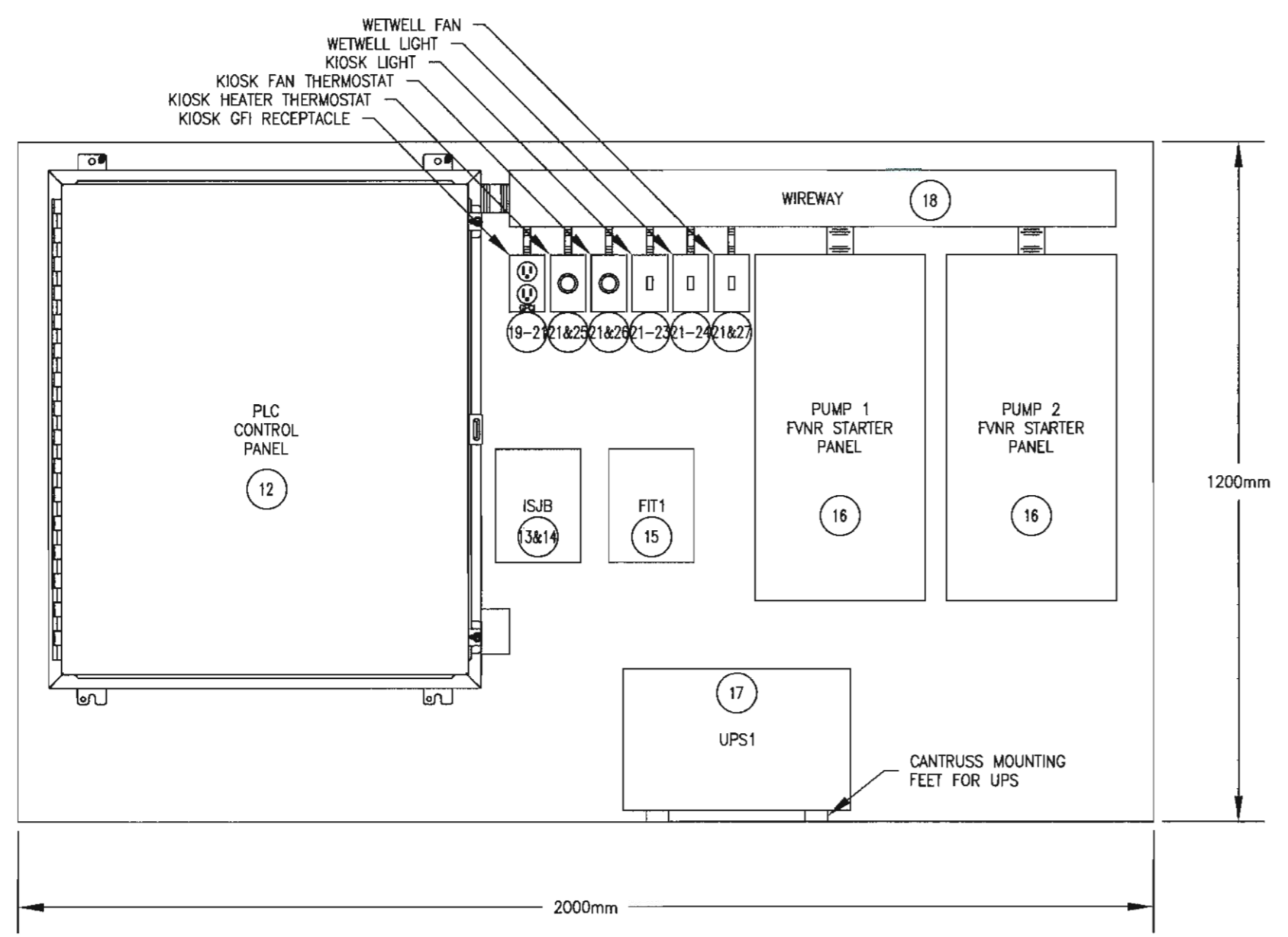
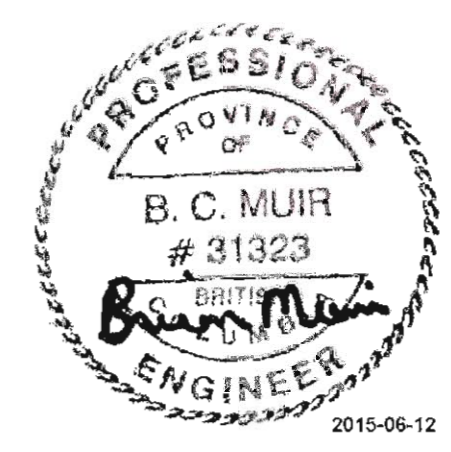
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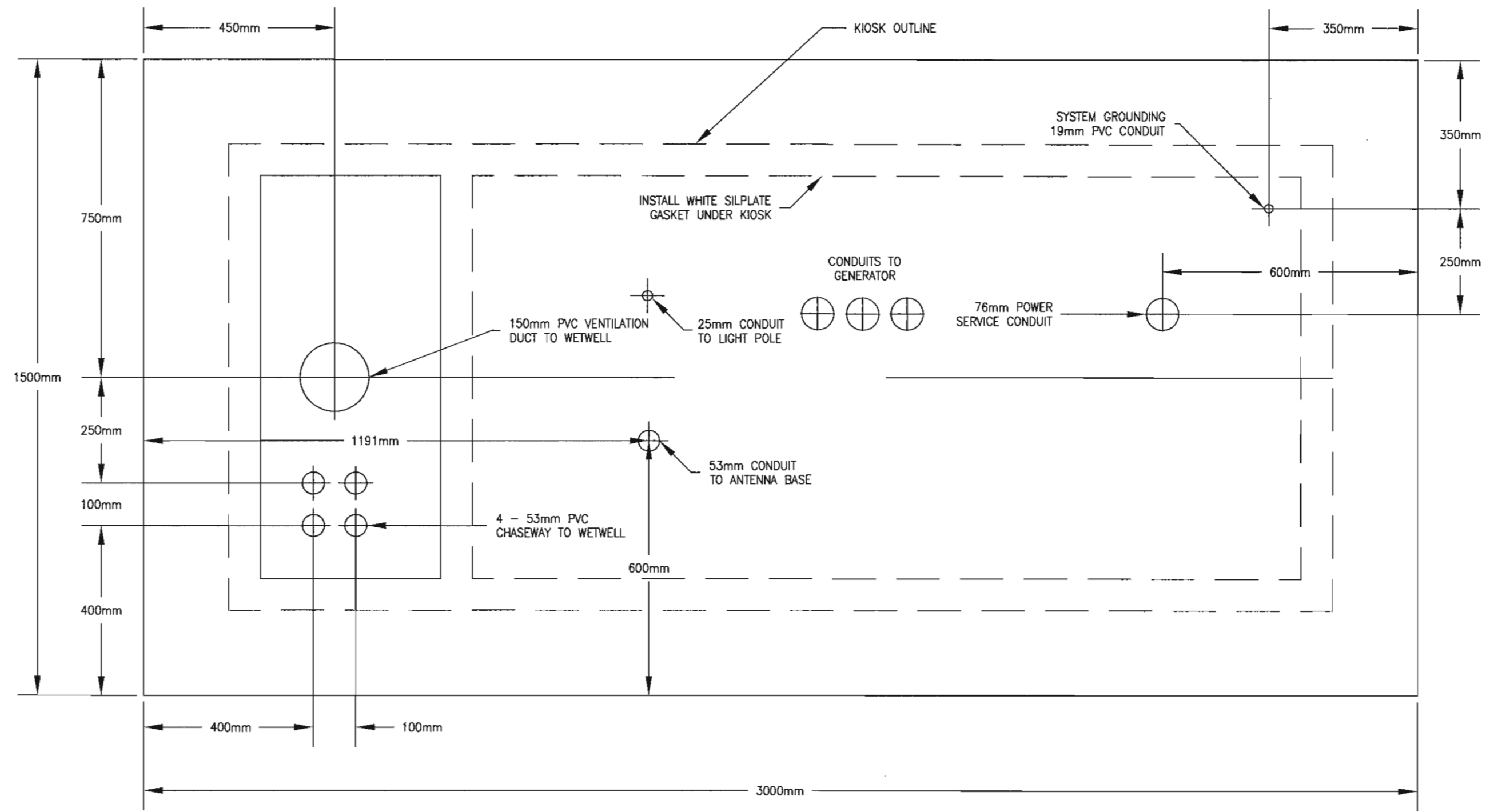
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Drawing title/Titre du dessin  
**KIOSK DETAILS**

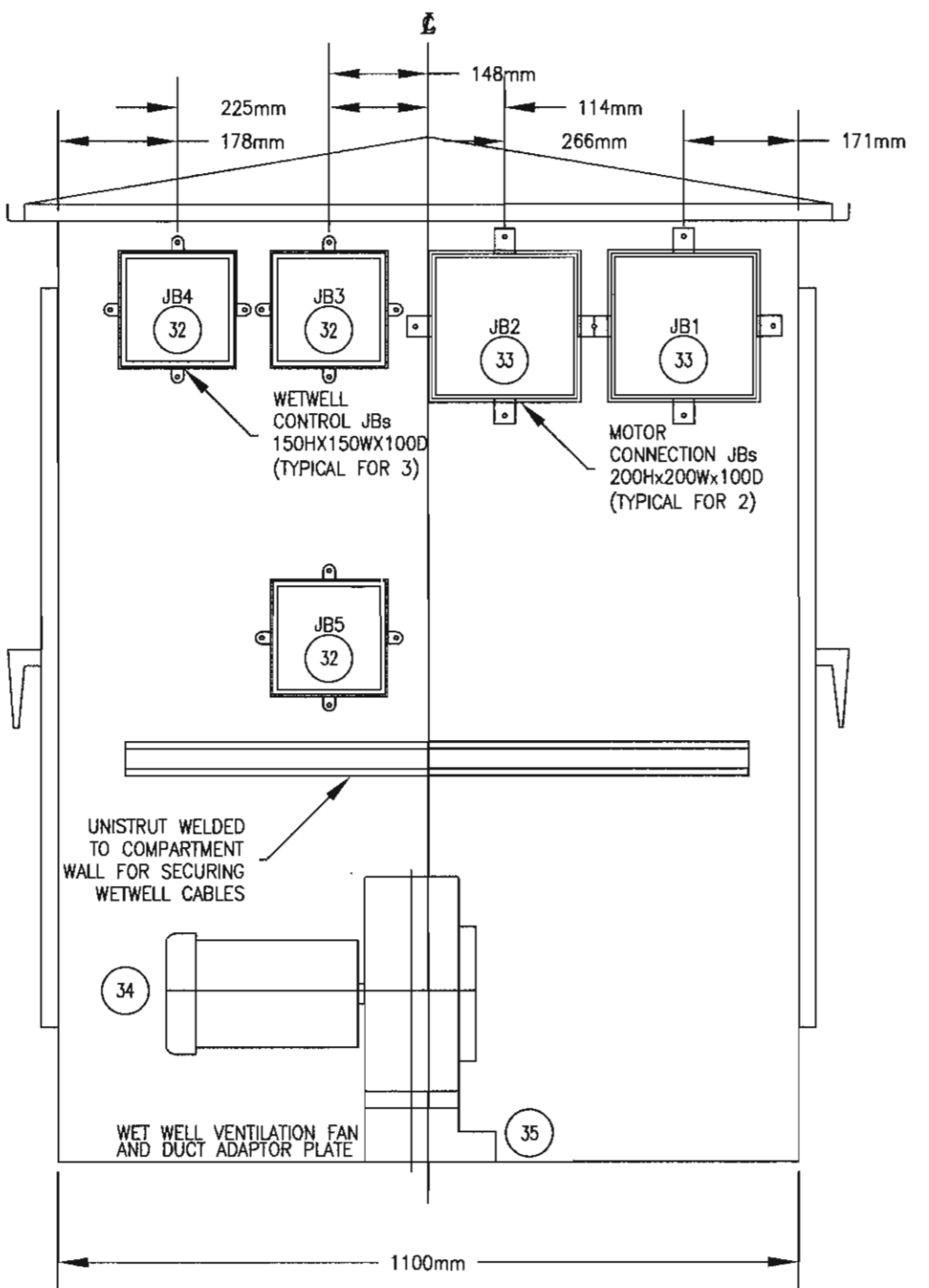
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LIFT STATION KIOSK SECTION 'B'



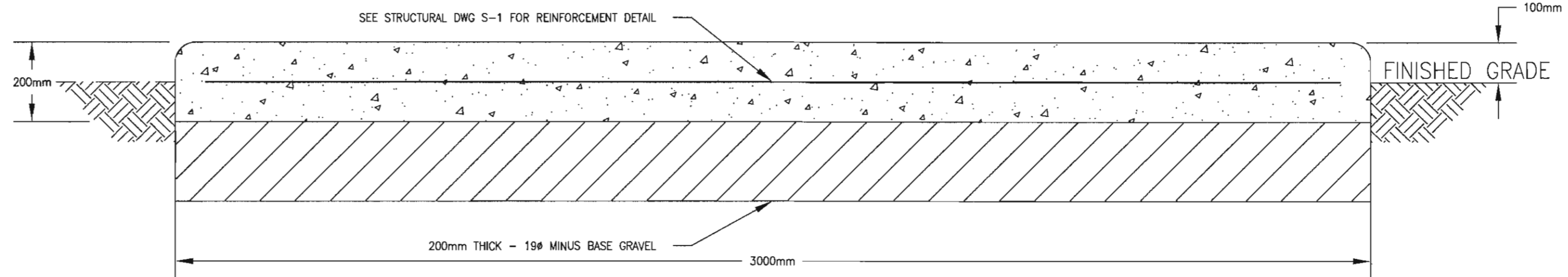
LIFT STATION KIOSK BASE LAYOUT



LIFT STATION KIOSK END VIEW

KIOSK - LIST OF APPROVED MATERIALS				
Item	Qty	Supplier	Part Number	Description
1	1	Valid	XXXXA610244E-3379	3 Compartment Insulated Kiosk Enclosure c/w Steel Back Panel
2	1	Guillevin	SLC400RWBC	Hydel 200A, 4Jaw Meterbase
3	1	Guillevin	CD223N	Schneider Electric 100A, 240V, 2P Fusible Disconnect Switch
4	2	Guillevin	FRSR100	Buss 100A, 600V HRC Time Delay Fuses
5	1			Automatic Transfer Switch, Thomson Technology TS 870 series
6	1			4 Position Switch option
7	1	Guillevin	CQ0124M125C100	Schneider Electric 24 Cct, 125A Combo Panel c/w 100A Main
8	8	Guillevin	QO115	Schneider Electric 15A, SP Plug-in Style QO Breaker
9	1	Guillevin	QO215	Schneider Electric 15A, DP Plug-in Style QO Breaker
10	2	Guillevin	QO230	Schneider Electric 30A, DP Plug-in Style QO Breaker
11	1	Guillevin	S05A1175	Schneider Electric 240V, 1P, 3W Surge Arrester
12	1	Panel Shop		Custom PLC Control Panel
13	1	Guillevin	EJ664	Hammond 6"hx6"Wx4"H Nema 12 Enclosure c/w Backplate
14	1	Wesco	EB3C-R02A	Idec 2 Channel Intrinsic Safety Barrier
15	1	EBH	7ME69101AA101AA	Siemens SITRANS MAG 5100W Magnetic Flowmeter Electronics
16	2	Guillevin		Schneider FVNR 3hp, 240V Combination Starter Panel
17	1	Guillevin	GKT3-1000MT-120B	libert 1000VA, 120V UPS
18	1	Guillevin	48"Hx4"Wx3"D	Code 1220mm x 100mm x 75mm Aluminum Wireway
19	1	Guillevin	BC11-C-1	liberville 1110 Box Duplex Receptacle Cover
20	1	Guillevin	7599-W	leviton 15A, 125V Duplex GFI Receptacle
21	7	Guillevin	BC11-10	liberville 1110 Box
22	2	Guillevin	BC11-C-10	liberville 1110 Box Switch Cover
23	2	Guillevin	S603-W	leviton 15A, Threeway Switch
24	1	Guillevin	S602-W	leviton 15A, Two-way Switch
25	1	Guillevin	1A10-651	White Rogers Close on Rise Thermostat
26	1	Guillevin	OTL101C	Ouellet Close on Fall Thermostat
27	1	Guillevin	2510FG1	Schneider Manual Starter
28	1	Guillevin	SB148120SO	CFI 48" Single Lamp Fluorescent Fixture
29	1	Guillevin	F32785PK35ECO	GE 32W, T8 Fluorescent Lamp
30	1	Guillevin	FAN150AC115	Hammond 6" Kiosk Ventilation Fan
31	1	Guillevin	OFM100DBL	Ouellet 1000W, 240V White Baseboard Heater
32	3	Guillevin	JB664	Septre 150mm x 150mm x 100mm Nema 4X PVC Enclosure
33	2	Guillevin	JB884	Septre 200mm x 200mm x 100mm Nema 4X PVC Enclosure
34	1	EMPS	2C862-L4003A	Dayton 2C862 Fan c/w Baldor L4003A 1/4Hp, 120Vac Motor
35	1			Dayton Fan to 150mm Pipe Outlet Adaptor

LIFT STATION KIOSK MATERIAL LIST



LIFT STATION KIOSK BASE LAYOUT

Revision/	Description/Description	Date/Date
3	100% COMPLETE - ISSUED FOR TENDER	2015/06/04
2	98% COMPLETE	2015/04/28
1	66% COMPLETE - ISSUED FOR PRELIMINARY REVIEW	2015/04/17
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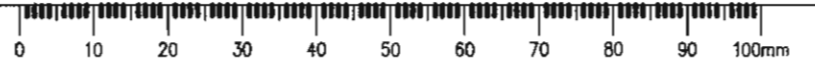
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**PENTICTON AIRPORT**  
**PENTICTON, BC**

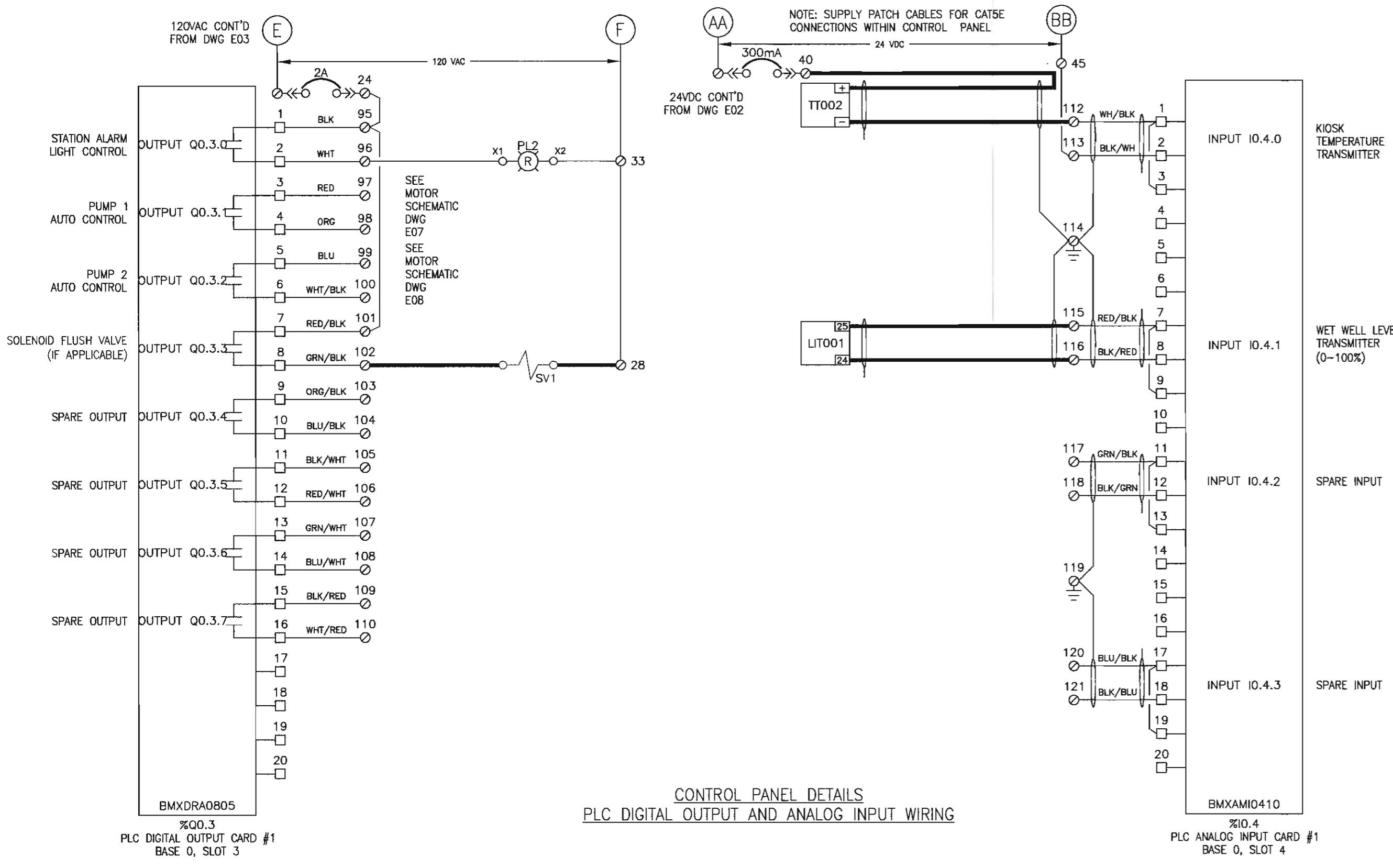
Project title/Titre du projet  
**PENTICTON AIRPORT**  
**SANITARY LIFT STATION**  
**REPLACEMENT**

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**BCM**  
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**MONIQUE SIMARD**

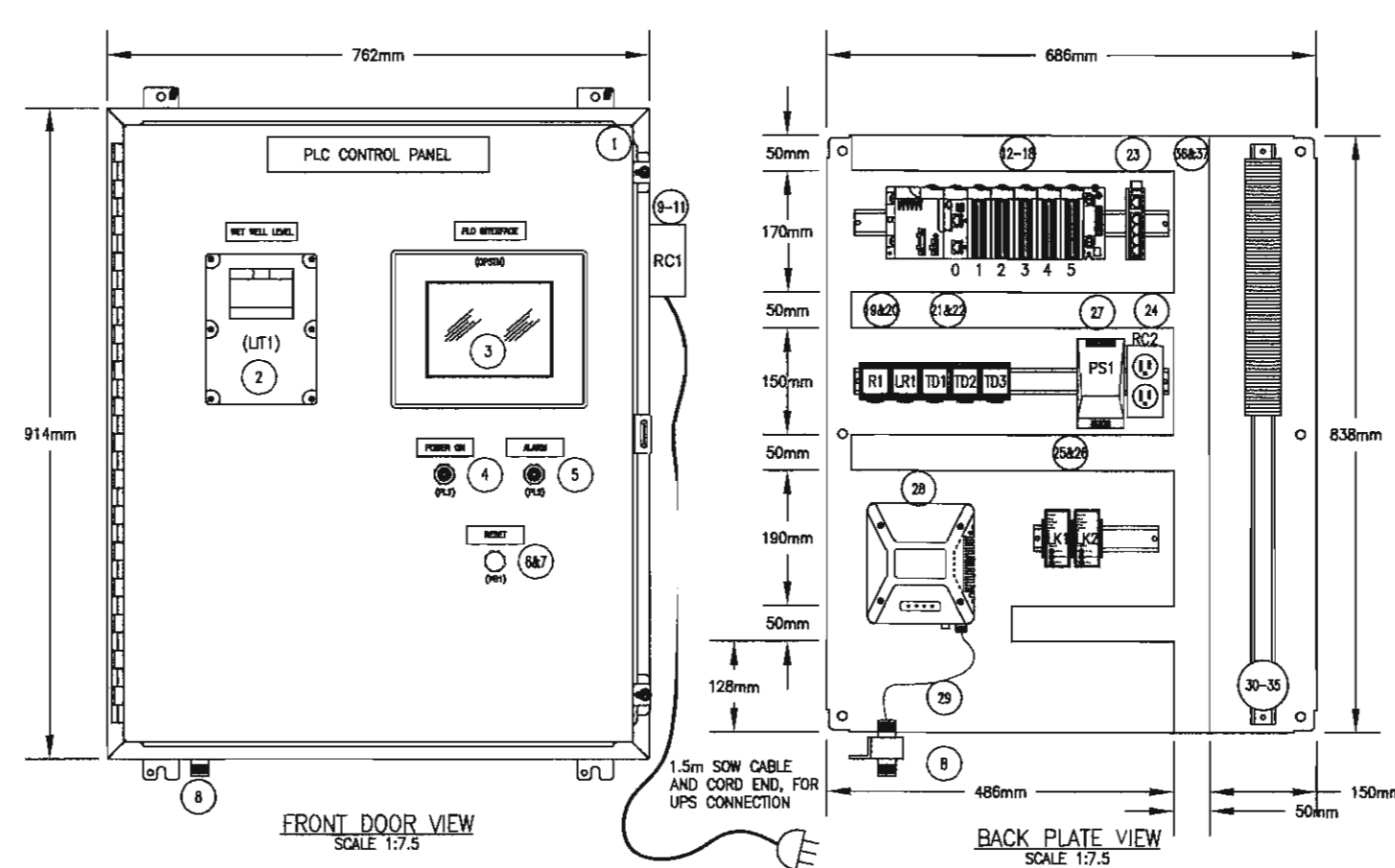
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 Drawing title/Titre du dessin  
**KIOSK DETAILS**

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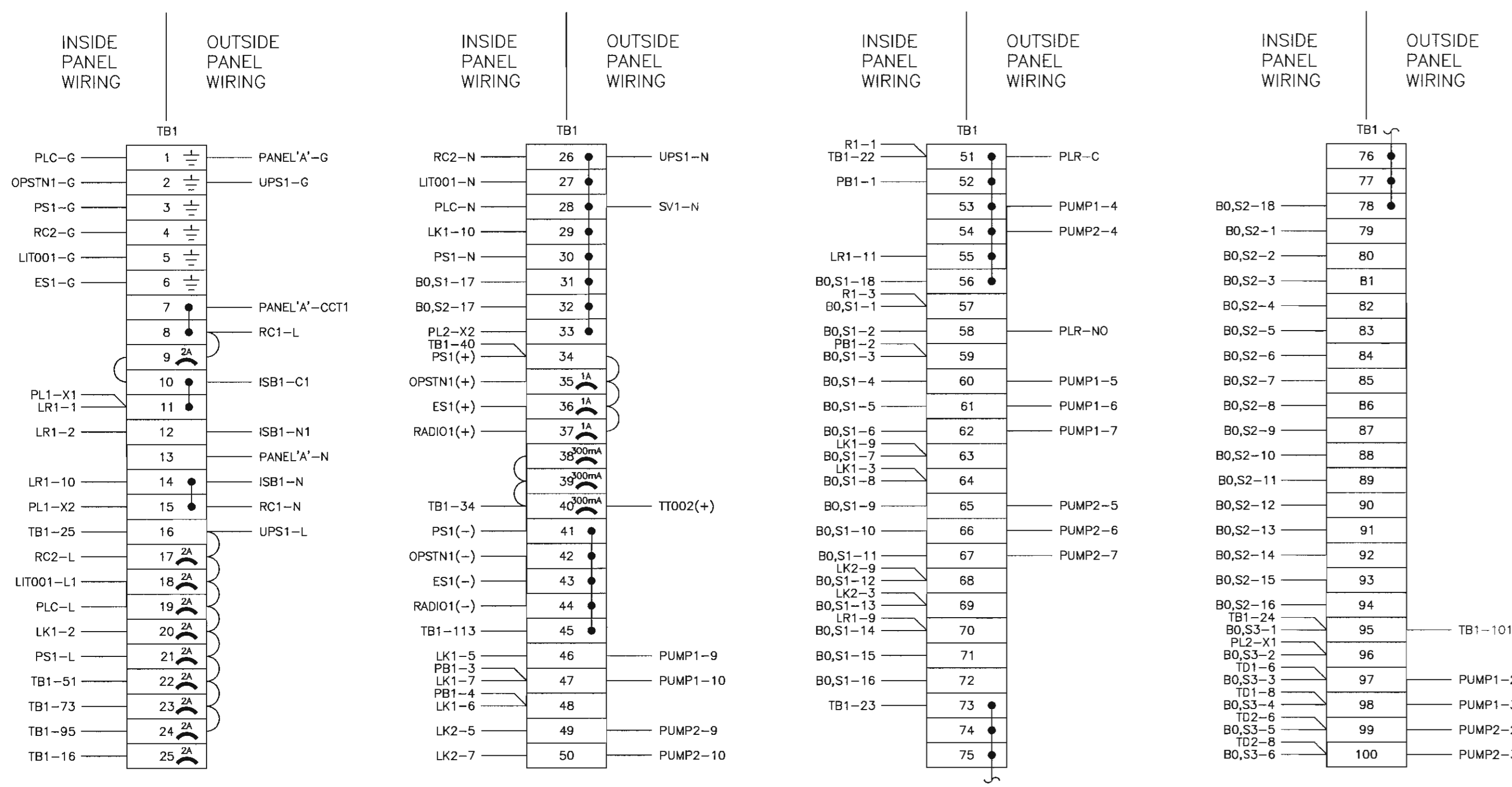
CONTROL PANEL DETAILS  
PLC DIGITAL OUTPUT AND ANALOG INPUT WIRING



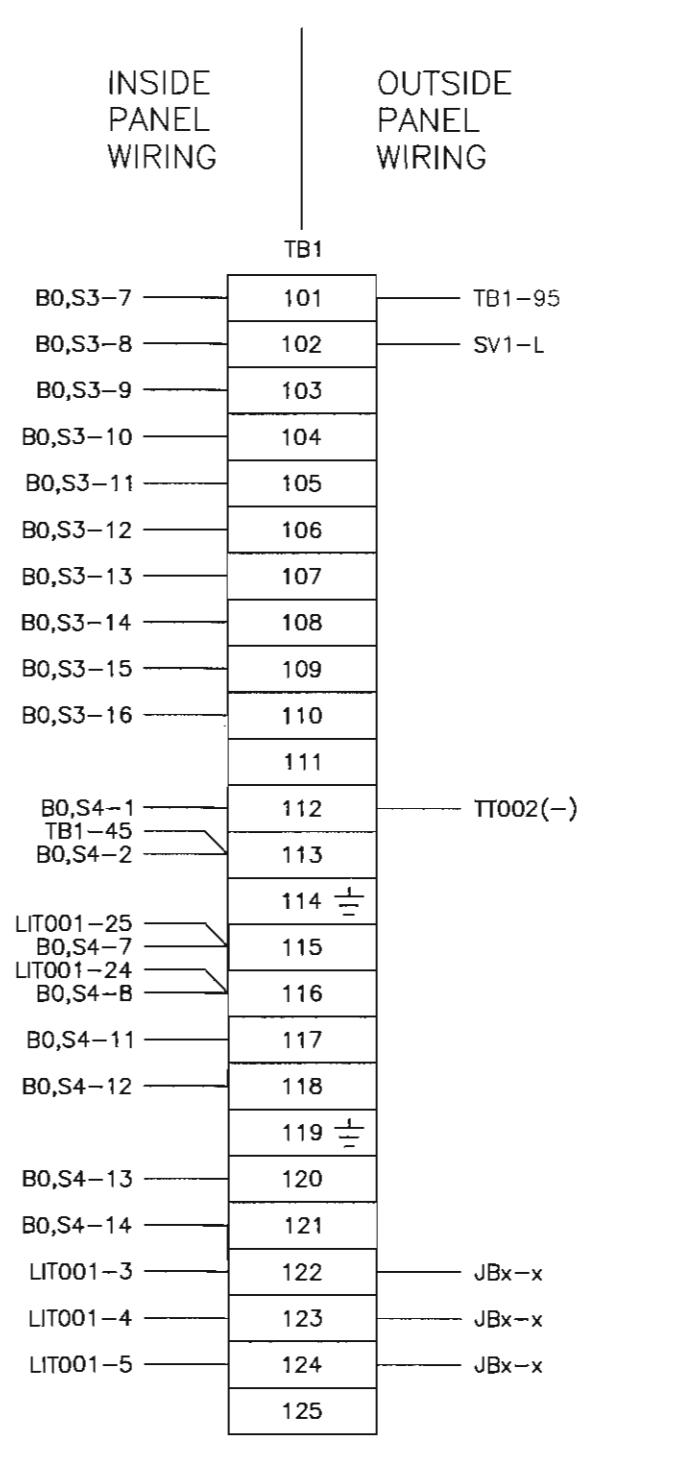
CONTROL PANEL

CONTROL PANEL -- LIST OF APPROVED MATERIALS				
Item	Qty	Supplier	Part Number	Description
1	1	Guillevin	1418M12	Hammond 36"Hx30"Wx12"D NEMA12 Enclosure c/w Backplate
2	1	EBH	7ML5033-1CA00-1A	Siemens MultiRanger 100 Panel Mount
3	1	Auto Direct	C-MORE E49-TBL	C-More 9" Touch-Screen HMI Panel
4	1	Guillevin	9001SKP38LGG51	Square D 30mm Green, 120Vac, LED Pilot Light
5	1	Guillevin	9001SKP38LRR31	Square D 30mm Red, 120Vac, LED Pilot Light
6	1	Guillevin	9001SKRUU	Square D 30mm Push Button
7	2	Guillevin	9001KA2	Square D 30mm 1-NO Contact Block
8	1		IS-850LN-CO	Polyphaser Bulkhead Lighting Arrestor
9	1	Guillevin	5320-WCP	Leviton 15A 120V Duplex Receptacle
10	1	Guillevin	BC11-C-1	Iberville 1110 Box Duplex Receptacle Cover
11	1	Guillevin	RC11-10	Iberville 1110 Box
12	1	Schneider	BMXP342020	Modicon M340 2D PLC CPU
13	1	Schneider	BMXP60600	Modicon M340 6 Slot I/O Rack
14	1	Schneider	BMXP52000	Modicon M340 Rack Power Supply
15	2	Schneider	BMXDA1604	Modicon M340 16pt, 120Vac Input Module
16	1	Schneider	BMXDA0905	Modicon M340 9pt, Relay Output Module
17	1	Schneider	BMXAM10310	Modicon M340 4pt, Analog Input Module
18	4	Schneider	BMXFTV2010	Modicon M340 20pin I/O Module Connector
19	2	EBH	60.13.B.120.0030	Finder 3PDT Relay, 120Vac Coil, LED Indicator
20	3	EBH	90.27	Finder 3PDT Octal Relay Base
21	3	EBH	88.12.0.230.0002	Finder 120Vac, Multi-Function Timing Relay
22	3	EBH	90.26	Finder DPDT Octal Relay Base
23	1	B&B Elec	ESW105	5 Port Unmanaged Ethernet Switch
24	1	Westburne	6720005430	Weidmuller DIN Rail Mount Duplex Receptacle
25	2	Xylem	90.27	Pump Monitoring Relay (Supplied with Flygt Pumps)
26	2	EBH	90.27	Finder 3PDT Octal Relay Base
27	1	Westburne	8708670000	Weidmuller CP-SNT-120W 24V Power supply
28	1	Schneider	TBUREN45E-S1F01EHO	Trio E-Series Licensed Ethernet and Serial Data Radio
29	1	Schneider	TBUW297819	Antenna Patch Cable N-Male to N-Male 0.9 metre
30	10	Westburne	9101200000	Weidmuller 2 Ampere Breaker Terminals
31	3	Westburne	9101200000	Weidmuller 1 Ampere Breaker Terminals
32	3	Westburne	9129813200	Weidmuller 0.3 Ampere Breaker Terminals
33	101	Westburne	1020000000	Weidmuller WDU 2.5 Wiring Terminals
34	8	Westburne	1010000000	Weidmuller WPE 2.5 Ground Terminals
35	1	Wesco	01732205	ABB TS35 DIN Rail (1.8 Meter Length)
36	2	Guillevin	TYX3NPG6	T&B 2"W x 3"H Wireway (1.8 Meter Length)
37	2	Guillevin	TYZCPG6	T&B 2"W Wireway Cover (1.8 Meter Length)
38	1	Guillevin	EJ664	Hammond 6"Hx6"Wx4"D Nema 12 Enclosure c/w Backplate
39	1	Wesco	EB3C-R02A	Liebert 2 Channel Intrinsic Safety Barrier
40	1	Guillevin	GXT3-1000MT120	Idcert 1000VA 120V MiniTower UPS
41				
42				
43				

NOTES:  
ITEM 38 TO BE INSTALLED IN ITEM 38, AND INSTALLED IN KIOSK OUTSIDE OF CONTROL PANEL.  
NO SUBSTITUTIONS ALLOWED EQUIPMENT. ITEMS 2, 3, 12-22, AND 40 (W/AL. PLC EQUIPMENT, RELAYS, LEVEL TRANSMITTER, AND UPS) ARE NO SUBSTITUTIONS ALLOWED EQUIPMENT.  
SUPPLY AND INSTALL RELAY BASES (ITEM 28) FOR PUMP MONITORING RELAYS IF FLYGT PUMPS WITH MINICASH PROTECTIVE RELAYS ARE USED.  
JUMPERS CONNECTING TERMINAL BLOCK MINI-BREAKERS ARE TO BE MANUFACTURER'S COMB STYLE CROSS-CONNECTORS. JUMPERS CONNECTING NEUTRAL TERMINALS ARE TO BE MANUFACTURER'S SCREW-IN STYLE CROSS-CONNECTORS. INDIVIDUAL WIRE JUMPERS ARE NOT ACCEPTABLE.



CONTROL PANEL DETAILS  
CONTROL PANEL TB1 SHEET 1 OF 2 (MINICASH)



CONTROL PANEL DETAILS  
CONTROL PANEL TB1 LAYOUT SHEET 2 OF 2

TERMINAL BLOCK LEGEND

- ⊗ BREAKER TERMINAL RATED AT x AMPS
- ⊕ GROUND TERMINAL
- ⌋ MANUFACTURER'S COMB STYLE CROSS-CONNECTOR
- MANUFACTURER'S SCREW IN STYLE CROSS-CONNECTORS

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Revision/Revision	Description/Description	Date/Date
	Client/client	

TRANSPORT CANADA

PENTICTON AIRPORT  
PENTICTON, BC

Project Title/Titre du projet

PENTICTON AIRPORT  
SANITARY LIFT STATION  
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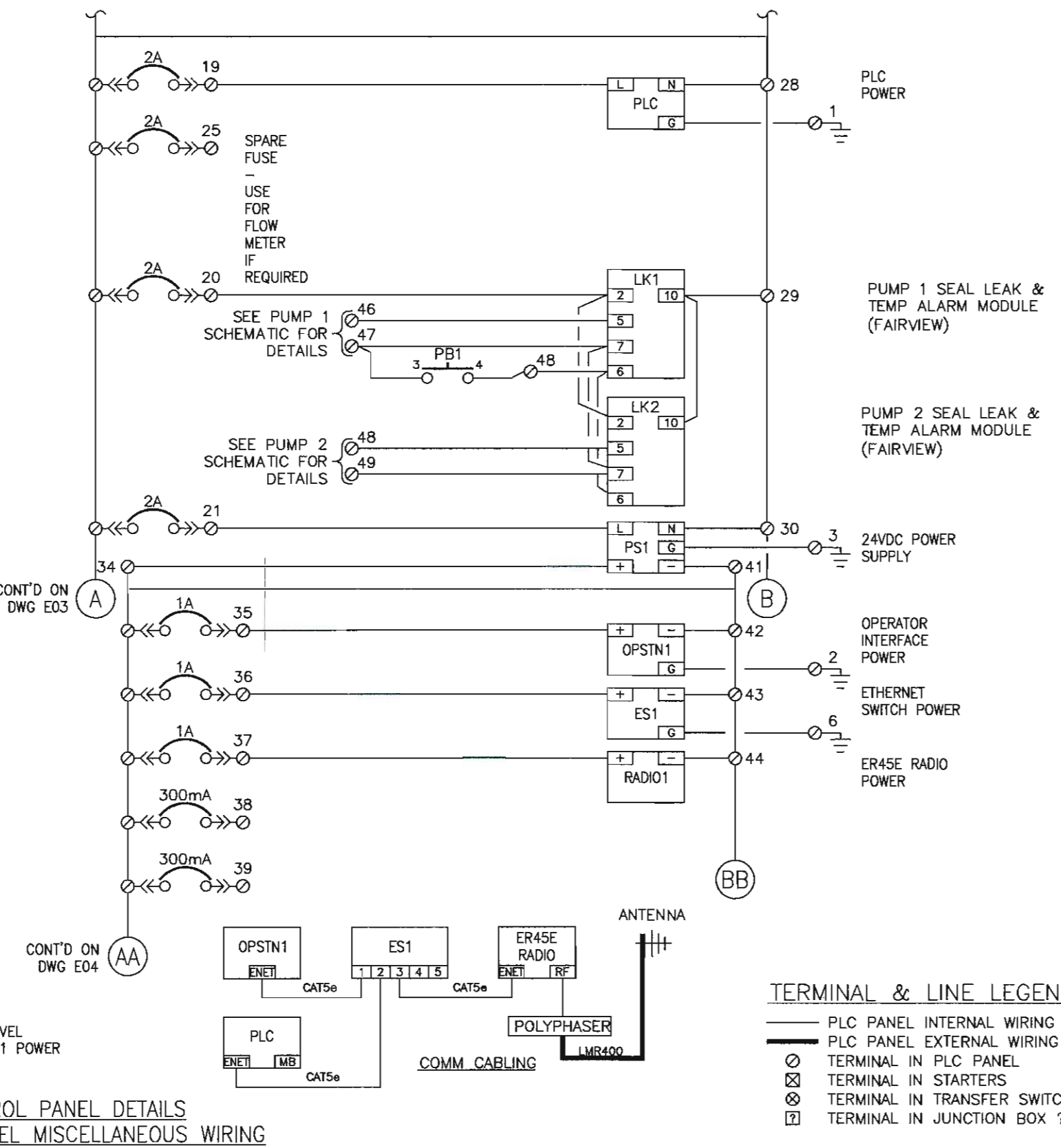
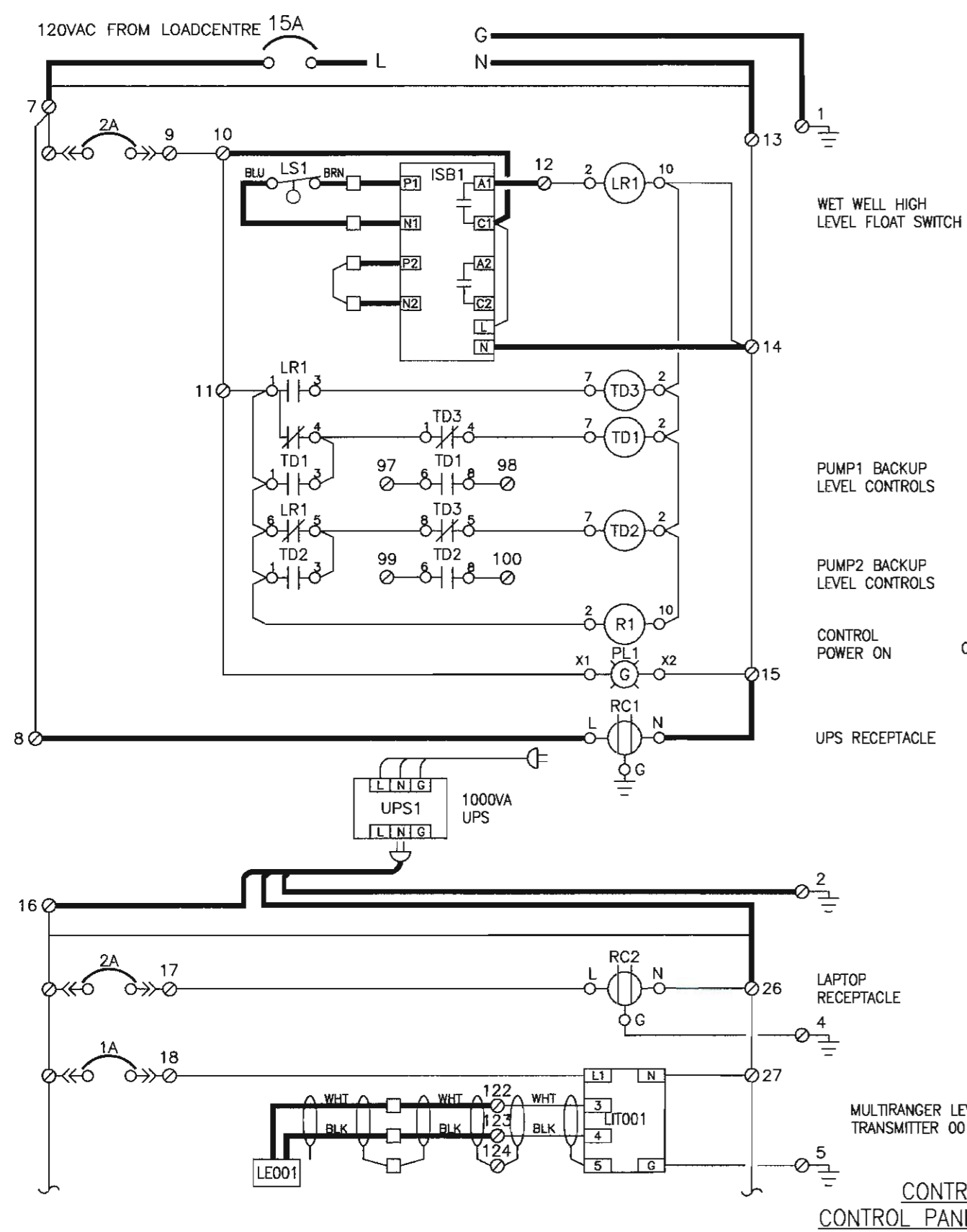
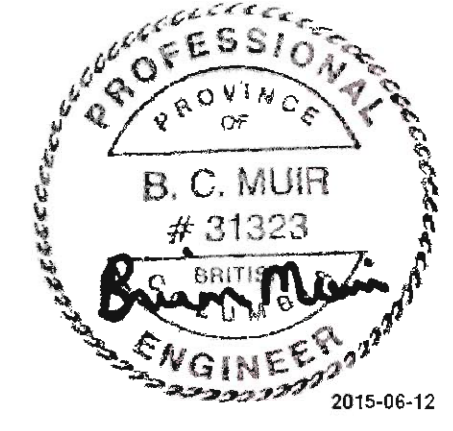
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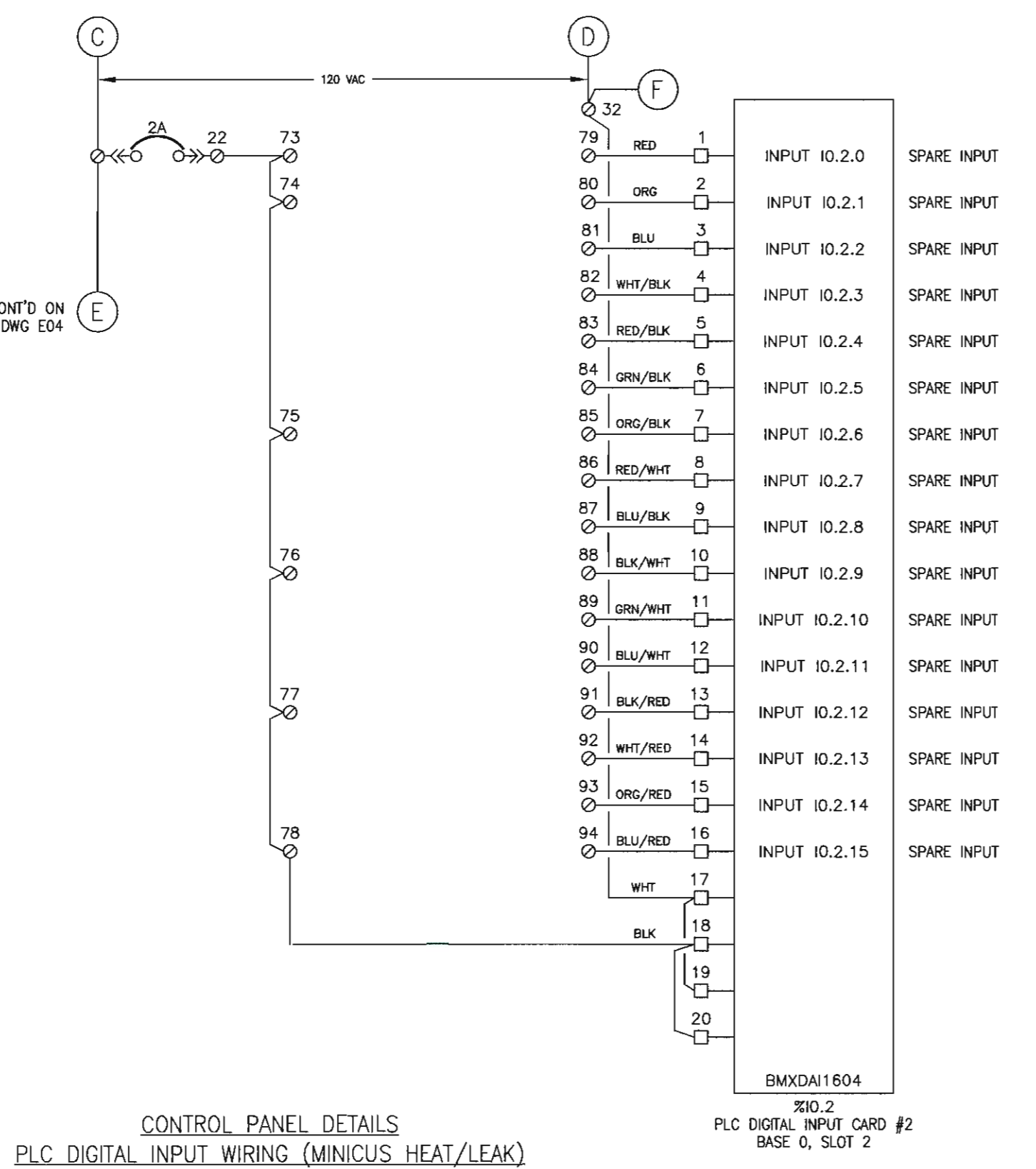
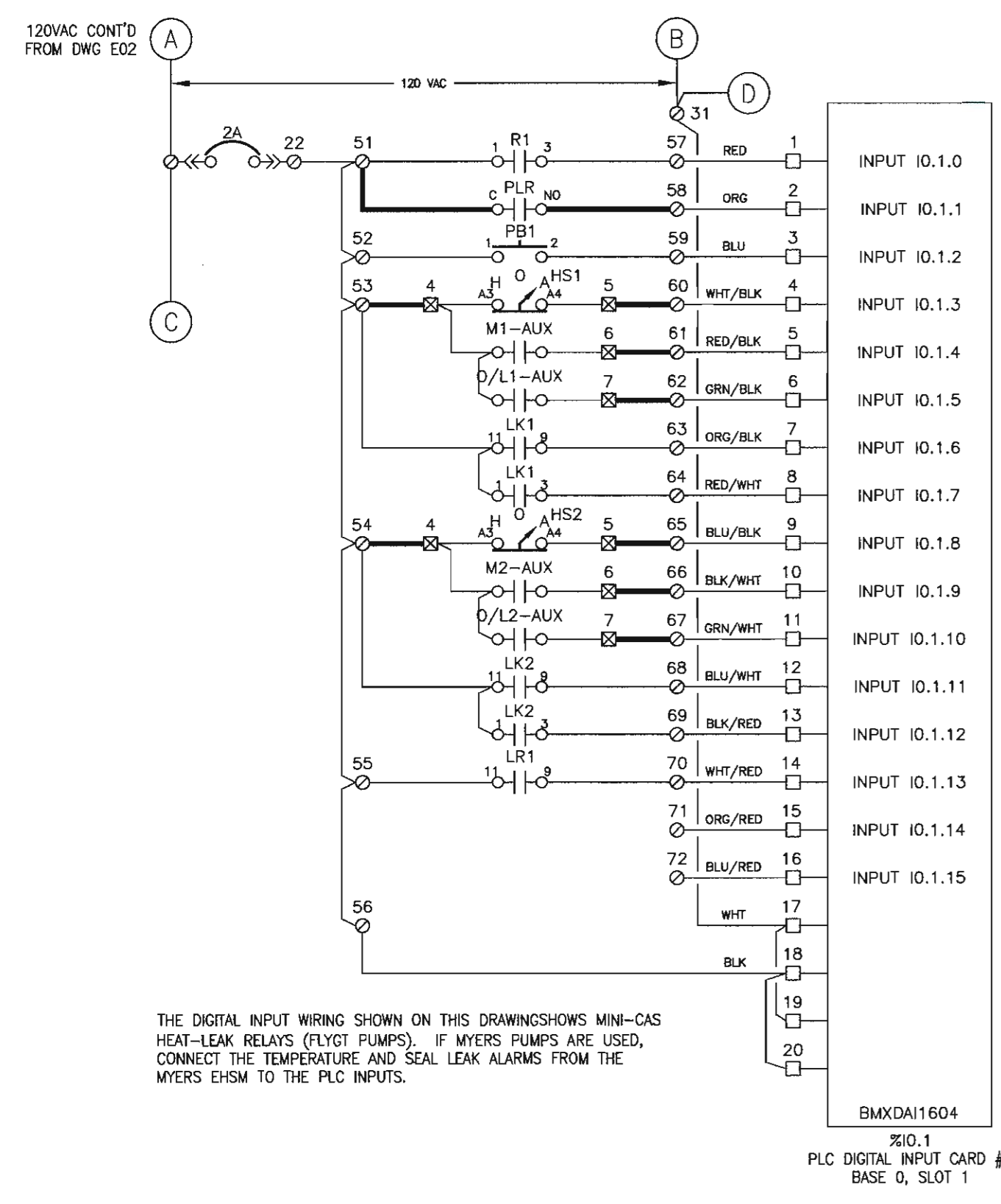
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CONTROL PANEL DETAILS

Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
R.070315.001	E-4	3



**TERMINAL & LINE LEGEND**  
 — PLC PANEL INTERNAL WIRING  
 — PLC PANEL EXTERNAL WIRING  
 ○ TERMINAL IN PLC PANEL  
 ⊗ TERMINAL IN STARTERS  
 ⊙ TERMINAL IN TRANSFER SWITCH  
 ⊞ TERMINAL IN JUNCTION BOX ?



THE DIGITAL INPUT WIRING SHOWN ON THIS DRAWING SHOWS MINI-CAS HEAT-LEAK RELAYS (FLYGT PUMPS). IF MYERS PUMPS ARE USED, CONNECT THE TEMPERATURE AND SEAL LEAK ALARMS FROM THE MYERS EHSM TO THE PLC INPUTS.

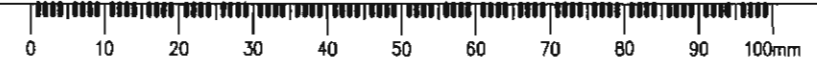
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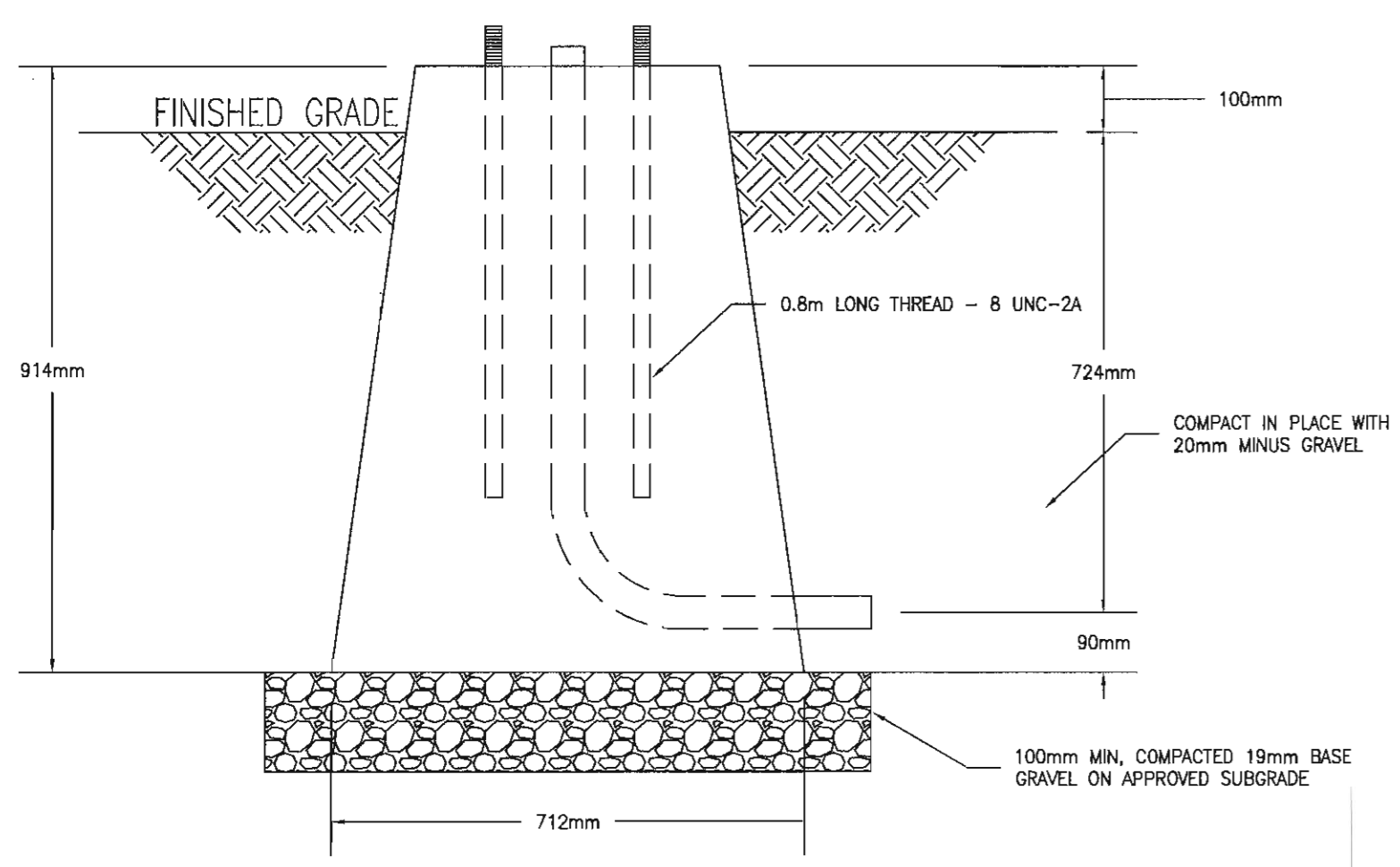
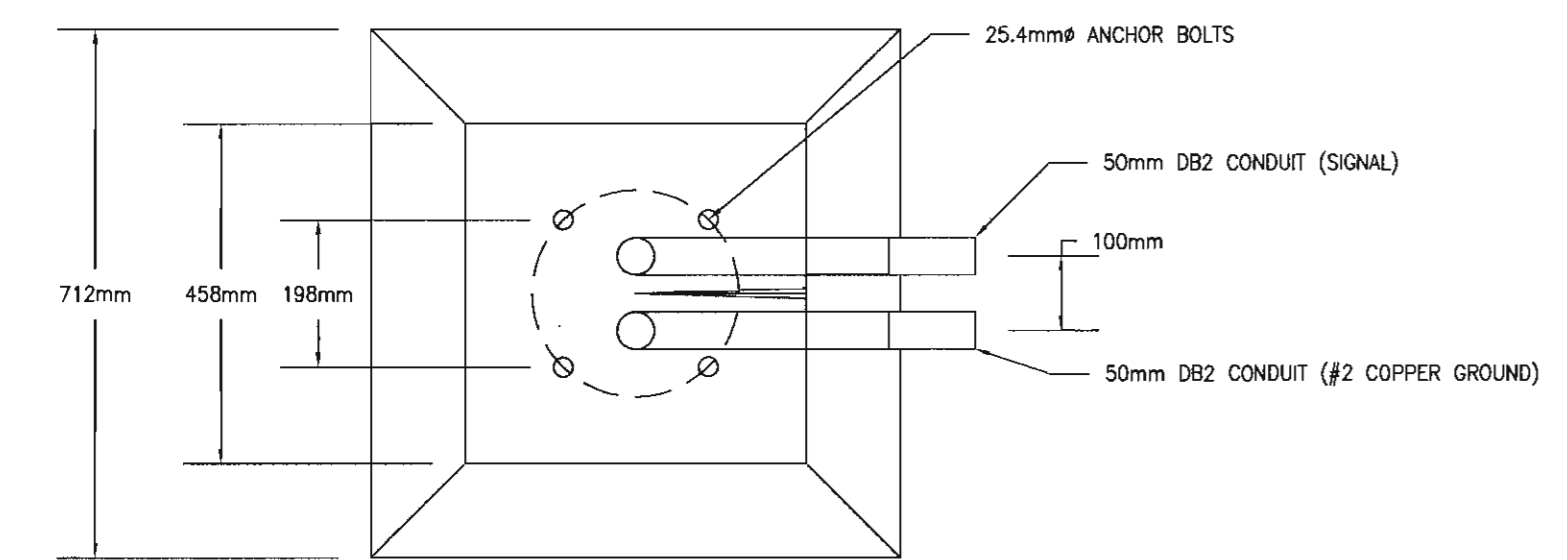
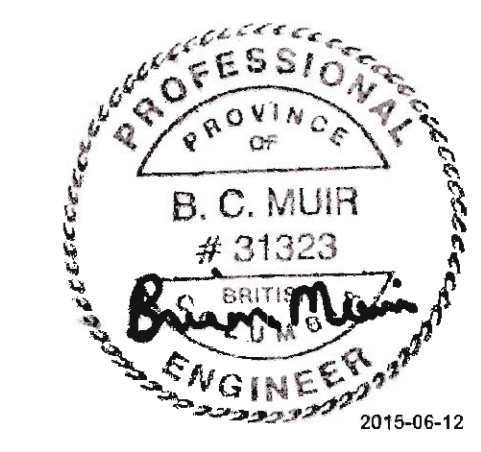
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**PENTICTON, BC**  
 Project title/Titre du projet  
**PENTICTON AIRPORT**  
**SANITARY LIFT STATION**  
**REPLACEMENT**

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**BCM**  
 PWSC Project Manager/Administrateur de Projets TPSGC  
**MONIQUE SIMARD**  
 Regional Manager, Architectural and Engineering Services  
 Gestionnaire régionale, Services d'architecture et de génie, TPSGC

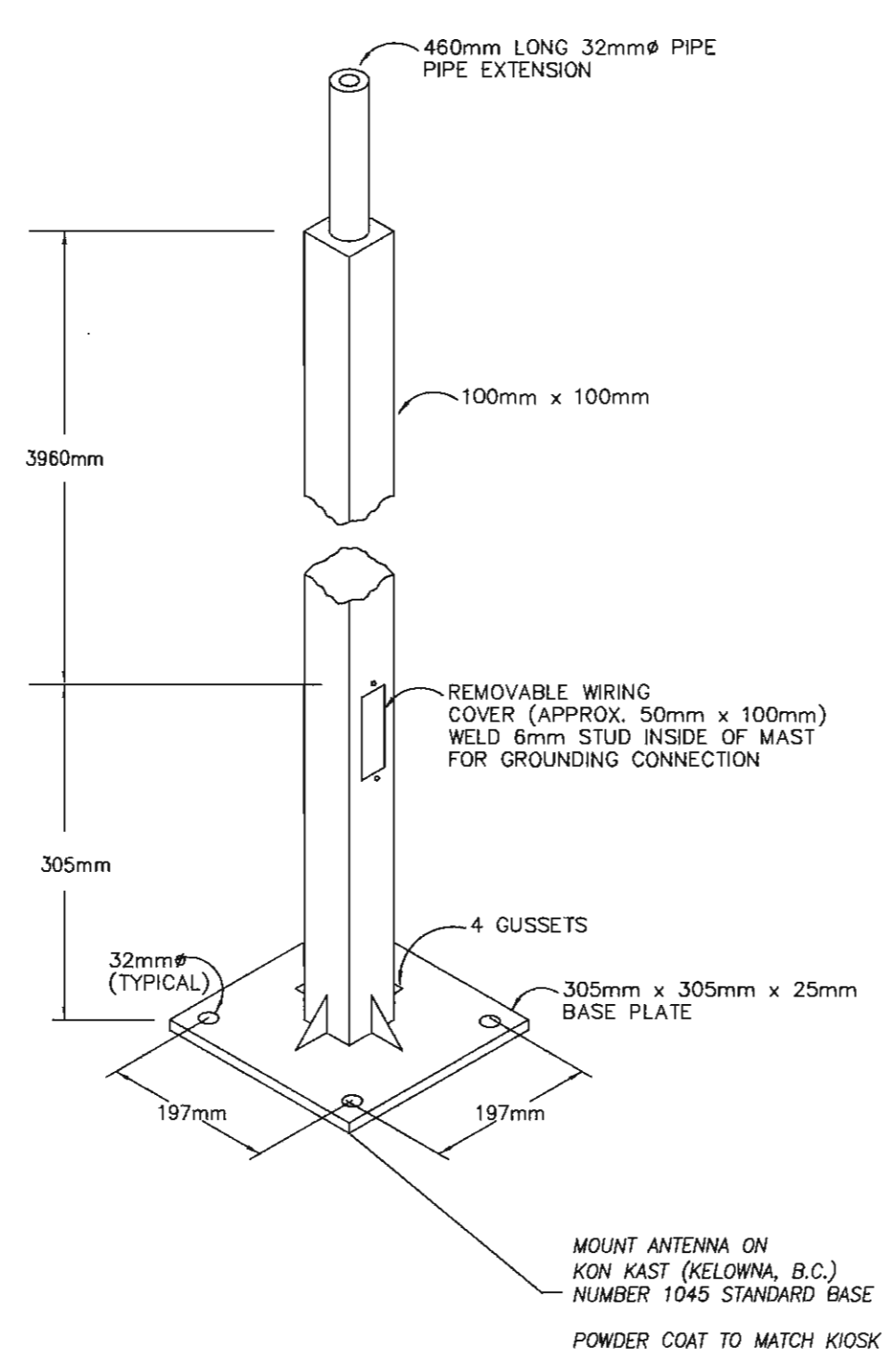
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**CONTROL PANEL DETAILS**

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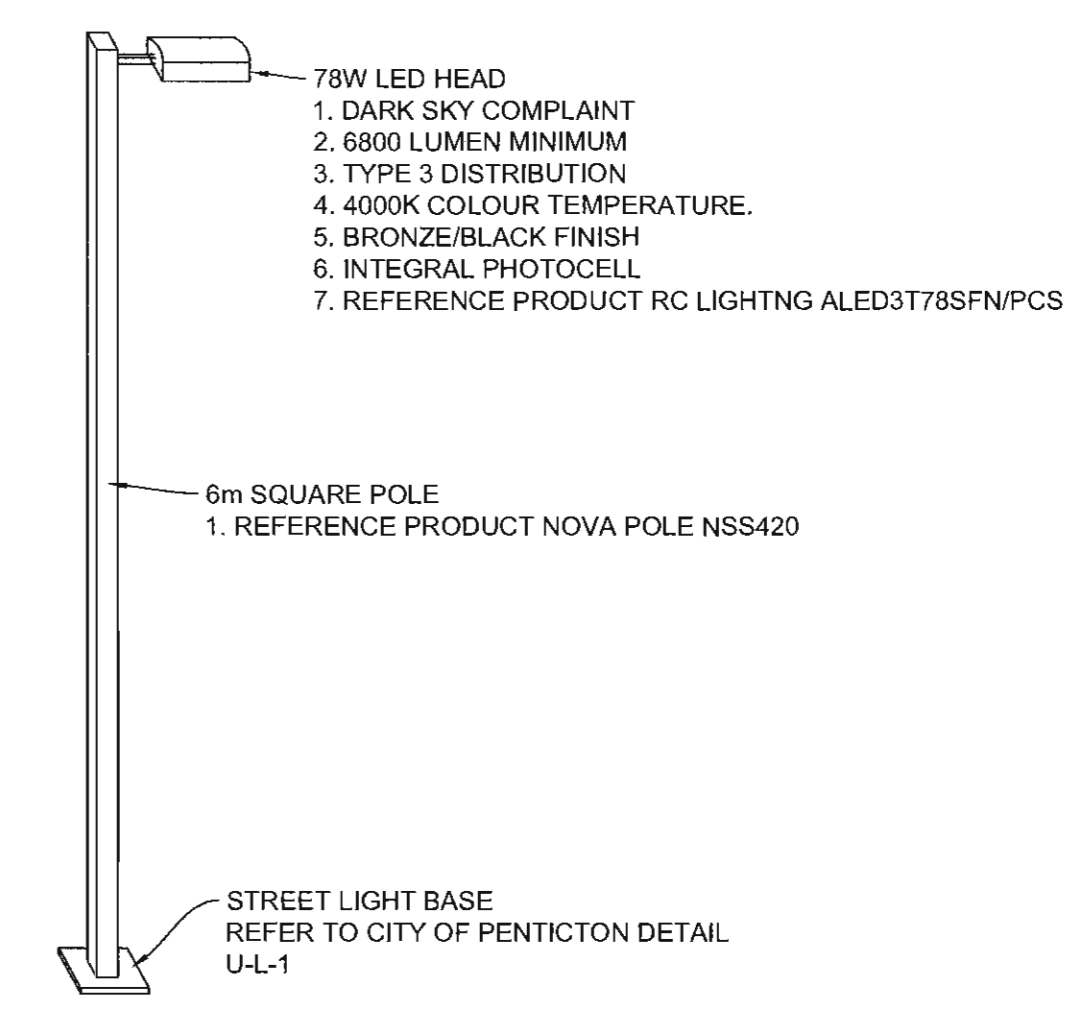




RADIO ANTENNA AND LIGHT POLE BASE DETAIL



RADIO ANTENNA POLE DETAIL



2 LIGHT\_FIXTURE N.T.S.

Revision/Revision	Description/Description	Date/Date
3	100% COMPLETE - ISSUED FOR TENDER	2015/06/04
2	99% COMPLETE	2015/04/28
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**MONIQUE SIMARD**  
 Regional Manager, Architectural and Engineering Services  
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Drawing title/Titre du dessin  
**RADIO ANTENNA AND**  
**LIGHTING DETAILS**

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