

May 8, 2026

**ADDENDUM #3
NWIT-26-02
SA-11, SA-12, and SA-16 Sanitary Lift Station Upgrades
New Westminster, BC**

This addendum modifies the Invitation to Tender only as noted:

FORM OF TENDER – Appendix 1 Schedule of Quantities and Prices

SA-12 – 3 Civil and Geotechnical

<CHANGE> Item 3.03 to Quantity of zero (0)

PROJECT SPECIFIC SPECIFICATIONS

<DELETE> Section 50 00 Bypass Pumping included with Tender Documents (2 pages) and
<REPLACE WITH> Section 50 00 Bypass Pumping (2 pages following)

CONTRACT DRAWINGS

<ADD>

20-5142-C02 SA-16 Fencing and Bollards Rev08

CLARIFICATIONS:

Please find attached the revised SA-11 P01 drawings, including an updated note regarding the intermediate platform.

ANSWERS TO SUBMITTED QUESTIONS

- Q16 Ladders (SA-16 vs SA-11/12) – The SA-16 ladder detail specifies 304 stainless steel construction (rails, rungs, and grab bar), while SA-11 and SA-12 indicate aluminium ladders. Please confirm whether it is acceptable to provide an aluminium ladder system for SA-16, consistent with SA-11 and SA-12, in lieu of the specified stainless steel ladder.
- A16 [Aluminium ladder is acceptable for SA-16.](#)
- Q17 SA-12 Hatch – The drawings indicate a ductile iron hatch with a retrofitted safety grate. Please confirm whether an aluminium hatch with an integral safety grate would be acceptable in lieu of the specified ductile iron hatch.
- A17 [Alternate hatch materials may be considered during the shop drawing review phase; however, the hatch must meet H-25 loading requirements.](#)



- Q18 SA-16 - Confirm the extent of new chainlink fencing & roll gates required for this site.
A18 [Refer to drawing C02 attached to this addendum.](#)
- Q19 If there is electrical equipment below the flood level it would have to be raised up above the flood level or things like plugs and lights etc. have to be protected by GFI's. Not sure if the City have an exemption or not as it would seem that most of Queensborough would fall into that (i.e. being below the flood level). Please clarify.
A19 [Electrical equipment shall be installed in accordance with the design drawings and specifications.](#)
- Q20 SA-11 Dwg P01 calls for SS316L SCH10 as well as FRP discharge forcemain pipe. Confirm only the piping in the wet well for SA-11 is to be FRP. The other stations do not have FRP pipe.
A20 [FRP piping has been specified for SA-11, assuming potential cost savings with Barski on site. Contractors may propose stainless steel piping as an alternative.](#)
- Q21 SA-11 - Confirm the DR rating on the sanitary forcemain pipe out of the valve chamber.
A21 [Sanitary forcemain HDPE pipe shall be DR 17.](#)
- Q22 SA-12 - tender item #3.03 Excavate & Dispose - Pay description notes excavation for valve chamber. The drawings for SA-12 do not show a valve chamber. Please clarify.
A22 [This is an error. Please refer to the revised Measurement and Payment descriptions included with this addendum.](#)
- Q23 SA-12 Dwg C01. The new kiosk requires a new concrete pad. This drawing notes that the existing concrete pad for the existing kiosk is to remain. Please clarify how this is intended to work. New kiosk in same location as existing kiosk. Keep concrete pad, but also add new pad?
A23 [New concrete housekeeping pads are required for new electrical kiosks.](#)
- Q24 SA-12 Item #4.02 - Wet Well Modifications. The pay description notes "repair to existing FRP wet well...". The drawings show the existing wet well at SA-12 to be 1500mm concrete manhole barrel. Clarify the pay description for SA-12 #4.02
A24 [This is an error. All references to FRP for SA-12 pump station upgrades are to be excluded.](#)
- Q25 SA-12 Dwg C01 - Note pointing to the wet well states "replace guiderails, chains, ladder-up & valve stems, upgrade pumps....". Confirm what is required with replacing the valve stems. Scope of work, existing valve makes/models etc.
A25 [The valves within the wet well consist of a Flygt flanged 3" ball check valve and a 3" DeZurik isolation valve. The Contractor shall coordinate with the supplier to service the valves and replace any corroded components, including bolts, stems, and associated hardware.](#)



- Q26 SA-12 - Confirm the location/alignment of the underground power feed to the existing kiosk. Has BC Hydro been involved with any power revisions required for the new kiosk? Is there a Hydro design? Is the power to the existing kiosk 208V, the same as the new kiosk requirements of 208V? Is the intent for the new kiosk slab to be installed such that the existing power ducts from the Hydro service can be reused without revision?
- A26 City of New Westminster is the power authority, so BC Hydro is not involved. A service design has not yet been completed, but is to come. The existing service is 100A 208V 3-phase. The intent is a new concrete pad to replace the existing, and ducts intercepted for appropriate placement within new pad, with new conductors (supplied/installed by contractor).
- Q27 SA-16 - Dwg E01 - Note #1 states the Contractor is to coordinate with the local power authority to change the existing service from 480V to 208V. Has the City initiated this change with Hydro? Has a design been started by Hydro? Confirm the City will pay for any/all BC Hydro charges for the related power service revision.
- A27 City of New Westminster is the power authority, so BC Hydro is not involved. A service design has not yet been completed, but is to come. Design costs are by the City, but the contractor is responsible of the supply/install of the conduits and conductors.
- Q28 SA-16 - Confirm the required DR rating of the 200mm HDPE forcemain pipe. - Ref. To CoNW Std Specs & Detail Dwgs: 02732 - Sewer Forcemains only permit DI pipe & ftgs. Confirm HDPE is required. See attached screenshot.
- A28 Sanitary forcemain 200 mm HDPE pipe shall be DR 17.
- Q29 SA-16 - The 200mm HDPE forcemain will require tree root cutting as the pipe passes thru the boulevard on Rousseau St. Will an arborist be required to cut tree roots? There is a possibility of tree mortality with this trenching work.
- A29 The Contractor shall retain a City-approved arborist. Refer to Item 13 in the Instructions to Tenderers.
- Q30 SA-16 Tender item #3.08 Rol Curb & Sidewalk. The drawings do not show concrete sidewalk. Please clarify.
- A30 There is no sidewalk work at this pump station; only a rollover curb is included.
- Q31 SA-16 Tender item #3.10 Bollards - These do not appear on the drawings. Please advise where the bollards are required, specification for type & how many.
- A31 Bollard locations will be confirmed on site. Provide a quantity of five (5) in accordance with the specifications attached to this Addendum. Drawing C02 attached also displays the proposed locations.



- Q32 SA-16 EXP report - Env Soil Characterization & Groundwater Sampling. Due to the presence of groundwater contamination as depicted in the report, a water treatment system will be required to treat groundwater prior to discharging into the adjacent sanitary sewer. Water treatment systems typically require a large footprint of real-estate to setup and operate on (magnitude of 20m x 20m area). The parking lot directly north of 424 Rousseau St could work for this requirement. Has the City engaged the surrounding property Owners to facilitate this required equipment footprint? Does the City have an alternative location for the water treatment equipment setup?
- A32 [The Contractor is responsible for coordinating any temporary use of private property required for construction activities.](#)
- Q33 SA-11 - Tender item #3.02 Exc & Dispose Offsite The pay description states "Excavate & dispose for new yard surface...". Please provide details for the new yard surface (area and materials required). Also advise where this cost is to be covered in the tender items.
- A33 [The yard area is not being replaced. The contractor will be responsible for returning the surface to original conditions which will be incidental to the contract.](#)
- Q34 Addendum #2 - Q/A #3 - Refers to "revised Measurement and Payments attached....". A revised Measurement & Payment section has not been provided with Addendum #2. Please issue this revision.
- A34 [Please find revised Measurements & Payments attached.](#)

Please acknowledge this addendum as directed in the Form of Tender.

END OF ADDENDUM #3

Yours truly,

Heather M. Rossi
Procurement Specialist
Document #2880769

1.0 GENERAL

- .1 Section 01 43 00 addresses general requirements for measurement and payment for all items under the Schedule of Quantities and Prices. This section must be referenced to and interpreted simultaneously with the measurement and payment clauses in all other Sections pertinent to the items described in the Schedule of Quantities and Prices. The measurement and payment paragraphs in the MMCD and City of New Westminster Supplementary Specifications are superseded by the pay items descriptions provided.
- .2 All measurement and payment provisions under any particular Section are applicable to the same items or components of work involved in other Sections.

1.1 Measurement and Payment

- .1 All units of measurement for payment will be as given in Schedule of Quantities and Prices. All payments will be based on respective unit or lump prices in Schedule of Quantities and Prices or Change Orders issued.
- .2 Payment for items under Schedule of Quantities and Prices cover supply and installation of work described under the items and referenced Measurement and Payment clauses including all necessary materials, equipment and labour, cut and waste, working clearance, specified testings for the finished items of work, coordination efforts, dewatering and groundwater treatment including discharge and permitting, shoring, cofferdam design and installation, traffic control and any other incidental and miscellaneous materials and services, fittings, appurtenances and work and requirements as specified Costs of bonds, insurance, Workers Compensation contribution, superintendence, overheads, profits and other incidentals are deemed to have been included in pay items of Schedule of Quantities and Prices. No payment will be made for unauthorized work or work beyond limits shown on Contract Drawings. Any component of the project not explicitly described in the pay items and descriptions below must be accounted for by the Contractor and included under an associated pay item.
- .3 Unless specified otherwise, the standard methods of measurements will be as follows:
 - Linear measurement will be taken from end to end of measured items.
 - Area measurement will be the geometric area derived from conventionally accepted linear measurements of applicable dimensions of area to be measured.
 - Cubic measurement will be made in place using end area method or by loose truck box volume, all as specified under individual payment Sub-sections.

- Weight measurement for items with materials delivered in truck loads will be made by weigh tickets to be verified in accordance to Force Account method, or by actual weighing if total weight is less than one tonne.
- .4 Unless otherwise specified, accuracy of measurement will be to the nearest significant decimal value as given below:

Asphalt	0.1 tonne
Concrete	0.01 cubic metre
Excavation, earth and granular materials	0.1 tonne or cubic metre
Pipes	0.02 metre
All unit items	Each
Clearing, top soil, seeding, sodding	0.2 metre in both directions
Asphalt or concrete area	Length to 0.1 metre Width as specified and constructed, otherwise to 0.1 metre
Lump sum	All works associated with each item

2.0 DESCRIPTION OF PAY ITEMS

The following description of items is for payment purposes only and does not describe or define the scope of work.

FORM OF TENDER APPENDIX 1 – SCHEDULE FO QUANTITIES AND PRICES

.1 Section 1 - General Requirements

Item 1.01 Mobilization and Demobilization

This item includes all costs associated with mobilization and demobilization associated with the Contractors equipment, safety equipment, site facilities and services and the costs of bonding, insurance permits, fees, and security necessary to carry out and complete the work.

This item shall include costs associated with carrying out the work.

The total amount of this item shall not exceed five percent of the total tendered price. Mobilization will be processed under the first progress claim certificate and demobilization will be processed after completion of the work.

Two payments will be made at fifty percent (50%) of the lump sum price tendered for this item (one for mobilization and demobilization) in the schedule of Quantities and Prices.

Item SA-11-1.02 Traffic Control

This item includes all costs associated with obtaining relevant permits and approval from the City for carrying out traffic control at the time of construction. As well as the costs associated, including but not limited to staffing and equipment.

Payment will be made at the lump sum price tendered for this item in the Schedule of Quantities.

Item SA-11-1.03 Erosion & Sediment Control

This item includes all costs associated with obtaining relevant permits and approval from the City, Provincial authorities, and Ministries for carrying out construction as it pertains to health, safety, and protection and conservation of the environment.

Payment will be made at the lump sum price tendered for this item in the Schedule of Quantities.

Item SA-11-1.04 Quality Control/ Testing/ Start up/ Commissioning

This item includes all costs associated with the onsite testing and commissioning of all pumping and electrical equipment to confirm correct operation of all equipment including but not limited to:

- Sewage Pumps
- Valves
- Electrical Control Kiosk
- Ultrasonic and Pressure Transmitter level sensing systems in the valve chamber.
- Other related Equipment.

Specific testing and commissioning requirements are specified in the governing technical specifications and shall be used for specified procedures and tests and test reports to be carried out and provided by the contractor.

This item includes the cost for the onsite attendance of all equipment suppliers required for testing commissioning work.

Incorrect operation and/or deficiencies found during testing and commissioning will be corrected by the Contractor as required by the contract documents.

Payment will be made at the lump sum price tendered for this item in the Schedule of Quantities.

This lump sum value of this item must be no less than 3% of the overall tender amount for this project, excluding GST.

A2

Item SA-11-1.05 O&M Manuals & Redline Drawings

This item includes all costs associated with supplying operation and maintenance manuals, and redline as-constructed drawings for the project, to the Engineers satisfaction and approval, as specified in the contract documents.

Payment will be made at the lump sum price tendered for this item in the Schedule of Quantities.

Item SA-11-1.06 Contractor Design Temporary Bypass System

This item includes all costs associated with the coordination, design, supply, installation, and ongoing maintenance and monitoring of the sanitary bypassing system. The proposed pumps and system just be submitted to the Engineer for review and approval. Refer to specification 015000.

Payment will be made at the lump sum price tendered for this item in the Schedule of Quantities.

Item SA-11-1.07 Temporary Facilities

This item includes all costs associated with installing and eventually removing temporary (limited time and/or purpose during construction duration) facilities such as construction fences, temporary access way and other approved temporary facilities.

Incorrect removal of and/or presence of unwanted temporary facilities found after construction will be corrected by the Contractor as required by the contract documents.

Payment will be made at the lump sum price tendered for this item in the Schedule of Quantities.

Item SA-11-1.08 Project Identification (INCIDENTAL)

All signaling and project identification; Is incidental to the contract work.

This item includes all costs associated with material, labour, and equipment, selecting, and providing of site signaling during construction phase. The contractor shall meet City requirements for signaling and project identification. All permitting required for project identification is the responsibility of the contractor.

Item SA-11-1.09 Groundwater Control, Treatment, and Disposal (INCIDENTAL)

All groundwater control, treatment and disposal required; Is incidental to the contract work.

This item includes all costs associated with material, labour, and equipment, selecting, and providing groundwater treatment prior to discharge to the sanitary or drainage sewer systems. The contractor shall ensure quality of water discharged from work or extracted from ground meets City requirements for discharging into watercourse, storm sewers and sanitary sewers throughout the dewatering period. All permitting required for discharge is the responsibility of the contractor.

Item SA-12-1.01 Mobilization and Demobilization

This item includes all costs associated with mobilization and demobilization associated with the Contractors equipment, safety equipment, site facilities and services and the costs of bonding, insurance permits, fees, and security necessary to carry out and complete the work.

This item shall include costs associated with carrying out the work.

The total amount of this item shall not exceed five percent of the total tendered price. Mobilization will be processed under the first progress claim certificate and demobilization will be processed after completion of the work.

Two payments will be made at fifty percent (50%) of the lump sum price tendered for this item (one for mobilization and demobilization) in the schedule of Quantities and Prices.

Item SA-12-1.02 Traffic Control

This item includes all costs associated with obtaining relevant permits and approval from the City for carrying out traffic control at the time of construction. As well as the costs associated, including but not limited to staffing and equipment.

Payment will be made at the lump sum price tendered for this item in the Schedule of Quantities.

Item SA-12-1.03 Erosion & Sediment Control

This item includes all costs associated with obtaining relevant permits and approval from the City, Provincial authorities, and Ministries for carrying out construction as it pertains to health, safety, and protection and conservation of the environment.

Payment will be made at the lump sum price tendered for this item in the Schedule of Quantities.

Item SA-12-1.04 Quality Control/ Testing/ Start up/ Commissioning

This item includes all costs associated with the onsite testing and commissioning of all pumping and electrical equipment to confirm correct operation of all equipment including but not limited to:

- Sewage Pumps
- Electrical Control Kiosk
- Other related Equipment.

Specific testing and commissioning requirements are specified in the governing technical specifications and shall be used for specified procedures and tests and test reports to be carried out and provided by the contractor.

This item includes the cost for the onsite attendance of all equipment suppliers required for testing commissioning work.

Incorrect operation and/or deficiencies found during testing and commissioning will be corrected by the Contractor as required by the contract documents.

Payment will be made at the lump sum price tendered for this item in the Schedule of Quantities.

This lump sum value of this item must be no less than 3% of the overall tender amount for this project, excluding GST.

A2

Item SA-12-1.05 O&M Manuals & Redline Drawings

This item includes all costs associated with supplying operation and maintenance manuals, and redline as-constructed drawings for the project, to the Engineers satisfaction and approval, as specified in the contract documents.

Payment will be made at the lump sum price tendered for this item in the Schedule of Quantities.

Item SA-12-1.06 Contractor Design Temporary Bypass System

This item includes all costs associated with the coordination, design, supply, installation, and ongoing maintenance and monitoring of the sanitary bypassing system. The proposed pumps and system just be submitted to the Engineer for review and approval. Refer to specification 015000.

Payment will be made at the lump sum price tendered for this item in the Schedule of Quantities.

Item SA-12-1.07 Temporary Facilities

This item includes all costs associated with installing and eventually removing temporary (limited time and/or purpose during construction duration) facilities such as construction fences, temporary access way and other approved temporary facilities.

Incorrect removal of and/or presence of unwanted temporary facilities found after construction will be corrected by the Contractor as required by the contract documents.

Payment will be made at the lump sum price tendered for this item in the Schedule of Quantities.

Item SA-12-1.08 Project Identification (INCIDENTAL)

All signaling and project identification; Is incidental to the contract work.

This item includes all costs associated with material, labour, and equipment, selecting, and providing of site signaling during construction phase. The contractor shall meet City requirements for signaling and project identification. All permitting required for project identification is the responsibility of the contractor.

Item SA-12-1.09 Groundwater Control, Treatment, and Disposal (INCIDENTAL)

All groundwater control, treatment and disposal required; Is incidental to the contract work.

This item includes all costs associated with material, labour, and equipment, selecting, and providing groundwater treatment prior to discharge to the sanitary or drainage sewer systems. The contractor shall ensure quality of water discharged from work or extracted from ground meets City requirements for discharging into watercourse, storm sewers and sanitary sewers throughout the dewatering period. All permitting required for discharge is the responsibility of the contractor.

Item SA-16-1.01 Mobilization and Demobilization

This item includes all costs associated with mobilization and demobilization associated with the Contractors equipment, safety equipment, site facilities and services and the costs of bonding, insurance permits, fees, and security necessary to carry out and complete the work.

This item shall include costs associated with carrying out the work.

The total amount of this item shall not exceed five percent of the total tendered price. Mobilization will be processed under the first progress claim certificate and demobilization will be processed after completion of the work.

Payment will be made at the lump sum price tendered for this item in the Schedule of Quantities.

Two payments will be made at fifty percent (50%) of the lump sum price tendered for this item (one for mobilization and demobilization) in the schedule of Quantities and Prices.

Item SA-16-1.02 Traffic Control

This item includes, but is not limited to, all materials, labour, equipment, and rental equipment required for traffic control for the full duration of construction, including coordination for City approved traffic management plans.

Payment for this item will be made at the lump sum price submitted in the Schedule of Quantities and Prices in the Proposal Submission Form.

Item SA-16-1.03 Erosion & Sediment Control

This item includes all costs associated with the effort of minimizing surface soil erosion during construction to satisfy applicable goals and standards set by the City, Province and/or Federal regulations (whichever is the most stringent).

This item also includes but are not limited to Sediment Control Techniques:

- Installation of silt fencing
- Cover of exposed soils subject to weathering or sloping
- Use of sediment basins and traps
- Other related and approved techniques.

Payment will be made at the lump sum price tendered for this item in the Schedule of Quantities.

Item SA-16-1.04 Start-Up & Commissioning

This item includes all costs associated with the onsite testing and commissioning of all pumping and electrical equipment to confirm correct operation of all equipment including but not limited to:

- Sewage pumps and motors
- Variable Frequency Drives
- Ultrasonic and Pressure Transmitter level sensing systems
- Control panel and instrumentation systems

- Bypass piping
- HVAC systems
- Lighting
- All other related Equipment.

Specific testing and commissioning requirements are specified in the governing technical specifications and shall be used for specified procedures and tests and test reports to be carried out and provided by the contractor.

This item includes the cost for the onsite attendance of all equipment suppliers required for testing commissioning work.

This item also includes all costs associated with the onsite testing and commissioning of the generator system as outlined in the contract documents to confirm correct operation of all equipment including but not limited to:

- Generator Set controls and fuel system
- Generator Ventilation
- Automatic Transfer Switch
- Generator system operation under specified loads.

Included is the testing of the fan, the sump pump, the sprinklers and moisture sensor, electrical equipment and all gauges and controls in the whole project.

Incorrect operation and/or deficiencies found during testing and commissioning will be corrected by the Contractor as required by the contract documents.

Payment will be made at the lump sum price tendered for this item in the Schedule of Quantities.

This lump sum value of this item must be no less than 3% of the overall tender amount for this project, excluding GST.

Item SA-16-1.05 O&M Manuals & Redline Drawings

This item includes all costs associated with supplying operation and maintenance manuals, and redline as-constructed drawings for the project, to the Engineers satisfaction and approval, as specified in the contract documents.

Payment will be made at the lump sum price tendered for this item in the Schedule of Quantities.

Item SA-16-1.06 Contractor Design Temporary Bypass System

This item includes, but is not limited to, all materials, labour, equipment, and all other work and materials necessary to complete the work as specified in the specifications or as shown on the Contract Drawings or as otherwise directed by and to the satisfaction of the Engineer.

The bypass system must be capable of managing the interim duty conditions of the proposed pump station. The Contractor must submit a bypass plan to the Engineer for review and approval.

Payment for contractor designed temporary bypass system will be made at the lump sum price submitted in the Schedule of Quantities and Prices in the Proposal Submission Form.

Two payments will be made at seventy-five percent (75%) of the lump sum price tendered for installation and twenty-five percent (25%) for removal of the bypass, as outlined in the Schedule of Quantities and Prices.

Item SA-16-1.07 Temporary Facilities

This item includes, but is not limited to, all materials, labour, equipment, and rental equipment required to provide the necessary temporary facilities for the full duration of construction.

Payment for this item will be made at the lump sum price submitted in the Schedule of Quantities and Prices in the Proposal Submission Form.

Item SA-16-1.08 Project Identification

This item includes, but is not limited to, all materials, labour, equipment, and rental equipment required to provide the necessary project identification, including coordination for City approved signage and information distribution.

Payment for this item will be made at the lump sum price submitted in the Schedule of Quantities and Prices in the Proposal Submission Form.

Item SA-16-1.09 Dewatering and Groundwater Control

This item includes, but is not limited to, all materials, labour, equipment, and rental equipment, consultation, and third-party testing for all groundwater dewatering, management, and treatment required to comply with local bylaws.

This item is incidental to the contract.

.2 Section 2 – Demolition and Removals

Item SA-11-2.01 Salvage and Disposal of Existing Electrical Kiosk and Concrete Slab

Payment for salvage and disposal will be made at the lump sum price submitted in the Schedule of Quantities and Prices in the Proposal Submission Form.

This item shall include, but is not limited to all materials, labour, and equipment for removal, salvage and disposal of the existing electrical kiosk specified on the drawings, and all other work and materials necessary to complete the work as specified in the specifications or as shown on the Contract Drawings or as otherwise directed by and to the satisfaction of the Engineer.

Payment will be made at the lump sum price tendered for this item in the Schedule of Quantities.

Item SA-11-2.02 Preparation of Existing Wet Well for Upgrades

Payment for preparation of the existing wet well for the upgrade work will be made at the lump sum price submitted in the Schedule of Quantities and Prices in the Proposal Submission Form.

This item shall include, but not limited to all materials, labour, and equipment required for removal and disposal of all internal parts of the existing station including the ladder and intermediate platform, hoarding, and cleaning and sanitization of the inside of the wet well.

Payment will be made at the lump sum price tendered for this item in the Schedule of Quantities.

Item SA-12-2.01 Salvage and Disposal of Existing Electrical Kiosk and Concrete Slab

Payment for salvage and disposal will be made at the lump sum price submitted in the Schedule of Quantities and Prices in the Proposal Submission Form.

This item shall include, but is not limited to all materials, labour, and equipment for removal, salvage and disposal of the existing electrical kiosk specified on the drawings, and all other work and materials necessary to complete the work as specified in the specifications or as shown on the Contract Drawings or as otherwise directed by and to the satisfaction of the Engineer.

Payment will be made at the lump sum price tendered for this item in the Schedule of Quantities.

Item SA-12-2.02 Preparation of Existing Wet Well for Upgrades

Payment for preparation of the existing wet well for the upgrade work will be made at the lump sum price submitted in the Schedule of Quantities and Prices in the Proposal Submission Form.

This item shall include, but not limited to all materials, labour, and equipment required for removal and disposal of internal parts of the existing station including the ladder and cleaning and sanitization of the inside of the wet well.

Payment will be made at the lump sum price tendered for this item in the Schedule of Quantities.

Item SA-16-2.01 Removal and Disposal of Existing Pump Station Building

This item includes, but is not limited to, all materials, labour, equipment, required for the removal and disposal of the existing pump station building, and internal equipment as shown on the Contract Drawings or as otherwise directed by and to the satisfaction of the Engineer. The contractor is responsible for coordinating with the owner to confirm any items to be salvaged by the City.

Payment for this item will be made at the lump sum price submitted in the Schedule of Quantities and Prices in the Proposal Submission Form.

Item SA-16-2.02 Removal and Disposal of Existing Concrete

This item includes, but is not limited to, all materials, labour, equipment, required for the removal and disposal of the existing building foundation and wet well and dry well concrete cover, including concrete removals for new concrete cover installation as shown on the Contract Drawings or as otherwise directed by and to the satisfaction of the Engineer. The contractor is responsible for coordinating with the owner to confirm any items to be salvaged by the City.

Payment for this item will be made at the lump sum price submitted in the Schedule of Quantities and Prices in the Proposal Submission Form.

.3 Section 3 – Civil and Geotechnical

Item SA-11-3.01 Landscape Reinstatement

This item includes all costs associated with reinstatement of disturbed ground within the working area to match existing ground conditions.

Included in this item are supply, placement, grading and compaction of stone as required, supply and placement of topsoil, seeding with approved grass seed, watering, surface preparation, erosion control measures, and all other work necessary to restore the area to pre-construction condition or better.

Payment will be made at the unit rate price tendered for this item in the Schedule of Quantities.

Item SA-11-3.02 Excavation and Disposal Offsite

This item includes all costs associated with the excavation and disposal offsite for installation of the valve chamber and equipment pads.

Payment will be made at the lump sum price tendered for this item in the Schedule of Quantities.

Item SA-11-3.03 New Sanitary Forcemain

This item includes all costs associated with the supply and installation of the forcemain including but not limited to labour, survey layout, traffic control, saw cut pavements, excavation and disposal, shoring, bedding, imported backfill, granular base and sub-base, pipe installation, fusion welding, grading, compaction, testing, flushing, and all other work and materials necessary to complete the installation as specified in the specifications or as shown on the Contract Drawings or as otherwise directed by and to the satisfaction of the Engineer. All utility crossing, including but not limited to those shown in the contract drawings, and included in the unit price provided. All fusion welding must be documented using a data logger to certify that all joints are fused at the required temperature and pressure. A copy of the results shall be provided to the Engineer.

Payment will be made at the unit rate price tendered for this item in the Schedule of Quantities.

Item SA-11-3.04 Connection to Existing Sanitary Forcemain

This item includes all costs associated with the forcemain connection including but not limited to labour, excavation and disposal, shoring, bedding, imported backfill, granular base and sub-base, pipe installation, fusion welding, grading, compaction, testing, flushing, and all other work and materials necessary to complete the installation as specified in the specifications or as shown on the Contract Drawings or as otherwise directed by and to the satisfaction of the Engineer.

Payment will be made at the lump sum price tendered for this item in the Schedule of Quantities.

Item SA-11-3.05 Pre-Locate Existing Utilities (*INCIDENTAL*)

This item includes all costs associated with locating existing utilities prior to construction. This item includes but is not limited to the site hours, coordination and reporting.

This work is incidental to the contract.

Item SA-11-3.06 CCTV Inspection of Pipelines (Initial)

This item includes all costs associated with the initial CCTV Inspection of pipelines.

Payment will be made at the lump sum price tendered for this item in the Schedule of Quantities.

Item SA-11-3.07 CCTV Inspection of Pipelines (1 Year)

This item includes all costs associated with the CCTV Inspection of pipelines after 1 year from substantial completion.

Payment will be made at the lump sum price tendered for this item in the Schedule of Quantities.

Item SA-11-3.08 Cap and Abandon Existing Forcemain

This item includes all costs associated with the permanent capping and abandonment of the existing sanitary discharge pipe outside of the existing wet well.

Payment will be made at the lump sum price tendered for this item in the Schedule of Quantities.

Item SA-11-3.09 Relocate Existing Hydrant-Controlled Water Valve

This item includes all costs associated with the relocation of the existing hydrant-controlled water valve, including excavation, removal, adjustment, reconnection to the existing watermain, and reinstatement of all affected surfaces, as shown on the contract drawings and as directed by the Contract Administrator.

Payment will be made at the lump sum price tendered for this item in the Schedule of Quantities.

Item SA-12-3.01 Asphalt Reinstatement

This item includes all costs associated with the supply, placement, and compaction of asphalt pavement for reinstatement of all disturbed areas, including tie-in of new asphalt pavement to existing asphalt pavement, as shown on the contract drawings and in accordance with the specifications.

Payment will be made at the unit rate price tendered for this item in the Schedule of Quantities.

Item SA-12-3.02 Site Fill & Base Material

This item includes all costs associated with the excavation and disposal offsite for installation of the new yard surface.

Payment will be made at the lump sum price tendered for this item in the Schedule of Quantities.

Item SA-12-3.03 Pre-Locate Existing Utilities (INCIDENTAL)

This item includes all costs associated with locating existing utilities prior to construction. This item includes but is not limited to the site hours, coordination and reporting.

This work is incidental to the contract.

Item SA-16-3.01 Pre-Locate Existing Utilities

This item includes, but is not limited to, all materials, labour, equipment, required to pre-locate all utility crossings and provide survey files to the Engineer for review.

Payment for this item will be made at the lump sum price submitted in the Schedule of Quantities and Prices in the Proposal Submission Form.

Item SA-16-3.02 Site Grading and Restoration

This item includes, but is not limited to, all materials, labour, equipment, and third party testing required for site grading and restoration, as per Contract Drawings and specifications.

Payment for this item will be made at the lump sum price submitted in the Schedule of Quantities and Prices in the Proposal Submission Form.

Item SA-16-3.03 CCTV Inspection of Pipelines (Initial)

This item includes, but is not limited to, all materials, labour, equipment, required for video inspection of all sanitary pipe, including a written report, immediately after completion of construction.

Payment for this item will be made at the lump sum price submitted in the Schedule of Quantities and Prices in the Proposal Submission Form.

Item SA-16-3.04 CCTV Inspection of Pipelines (One Year)

This item includes, but is not limited to, all materials, labour, equipment, required for video inspection of all sanitary pipe, including a written report, one year after issuance of Substantial Completion.

Payment for this item will be made at the lump sum price submitted in the Schedule of Quantities and Prices in the Proposal Submission Form.

Item SA-16-3.05 Supply and Install Sanitary Forcemain

This item includes, but is not limited to, all materials and labour, survey layout, traffic control, saw cut pavements, excavation and disposal, shoring, dewatering, bedding, imported backfill, granular base and sub-base, pipe installation, fusion welding, air and vacuum release valve assembly, backfilling, grading, compaction, pressure testing, flushing, and all other work and materials necessary to complete the installation as specified in the specifications or as shown on the Contract Drawings or as otherwise directed by and to the satisfaction of the Engineer.

All fusion welding must be documented using a data logger to certify that all joints are fused at the required temperature and pressure. A copy of the results shall be provided to the Engineer. Restoration of surfaces shall be included in this pay item including full depth initial asphalt restoration, restoration of curb and gutter, and restoration of sidewalks and boulevards per city standards.

All dewatering, groundwater treatment and discharge, and permitting are incidental to the work.

Payment for this item will be made at the unit rate price submitted in the Schedule of Quantities and Prices in the Proposal Submission Form.

Item SA-16-3.06 Water Service and Associated Works

This item includes all costs associated with the supply and installation of water service piping and fittings required for the work as indicated on the drawings or as required for a complete installation. This item also includes valve boxes, backflow preventers, water meters, curb stops, tie-ins, and flushing and testing. Excavation, trenching, placements, bedding, backfilling and surface restoration is also included.

Payment will be made at the lump sum price tendered for this item in the Schedule of Quantities.

Item SA-16-3.07 Asphalt Parking Pad

This item includes all costs associated with the construction of an asphalt parking area for City of New Westminster Maintenance Vehicles. The driveway structure shall be designed and constructed in accordance with the applicable City of New Westminster standards and specifications.

Work includes final grading, supply and placement of base materials, concrete curbs where required, compaction of granular road materials, hot mix asphalt pavements, and other related items to paved areas.

Payment will be made at the lump sum price tendered for this item in the Schedule of Quantities.

Item SA-16-3.08 Rollover Curb

This items includes, but not limited to, all materials, equipment and labour, survey layout, traffic control, excavation and disposal, all appurtenant structures, shoring, dewatering, concrete, rebar, compaction, form work, grading, testing, and all other work and materials necessary to complete the construction as specified in the specifications or as shown on the Contract Drawings or as otherwise directed by and to the satisfaction of the Contract Administrator.

Payment for this item will be made at the unit rate price submitted in the Schedule of Quantities and Prices in the Proposal Submission Form.

Item SA-16-3.09 Supply and Install Perimeter Security Fence c/w Roller Gate

This item includes, but is not limited to, all materials, equipment and labour, traffic control, excavation and disposal, concrete bases, grading and all other work and materials necessary to complete the perimeter fencing and roller gate as specified in the Contract Drawings and Specifications.

Payment for this item will be made at the lump sum price submitted in the Schedule of Quantities and Prices in the Proposal Submission Form.

Item SA-16-3.10 Supply and Install Bollards

This item includes, but is not limited to, all materials, equipment and labour, survey layout, traffic control, supply and install bollards including accessories, painting, and all other work and materials necessary to complete the installation as specified in the specifications or as shown on the Contract Drawings or as otherwise directed by and to the satisfaction of the Contract Administrator.

Payment for this item will be made at the unit rate price submitted in the Schedule of Quantities and Prices in the Proposal Submission Form.

.4 Section 4 – Pump Station Mechanical

Item SA-11-4.01 Flygt NP 3102 SH 6.43HP Submersible Pumps

This item includes all costs associated with the installation of two (2) Flygt NP 3102 SH 6.43HP Submersible Pumps complete with guide rails, brackets, and base elbows and all appurtenances, as per Contract Drawings and Specifications.

Installation of the pumps must be performed by the pump supplier (Xylem) and the FRP supplier (Barski).

Payment for this item in the Schedule of Quantities and Prices in the Proposal Submission Form will be made as follows: ten percent (10%) upon submission of shop drawings, twenty percent (20%) upon delivery to site, fifty-five percent (55%) upon installation, and the remaining fifteen percent (15%) will be held back until pump start-up has been completed by the vendor.

A2

Item SA-11-4.02 Piping & Valves

This item includes all costs associated with the supply and installation of the following:

1. Stainless steel piping in the valve chamber, and direct buried in the yard.
2. All check valves, plug valves, knife gate valves, air valves, bypass camlock and flow meter located inside and outside the valve chamber, including actuators, drains, and all related fittings, brackets, assemblies and related components.
3. Contractor designed pipe supports.
4. Supplier shop drawings.

Refer to Contract Drawings and Specifications for piping and valves details.

Payment for this item in the Schedule of Quantities and Prices in the Proposal Submission Form will be made as follows: ten percent (10%) upon submission of shop drawings, twenty percent (20%) upon delivery to site, fifty-five percent (55%) upon installation, and the remaining fifteen percent (15%) will be held back until the piping system has been pressure tested and confirmed leak-free.

A2

Item SA-11-4.03 FRP Wet Well Modifications

This item includes all costs associated with the modifications required inside of the existing FRP wet well. This work includes, but is not limited to:

- Repair to the existing FRP wet well to seal existing penetrations.
- Modifications to the existing FRP wet well to create new penetrations for the proposed pipes and conduits.
- Modifications to remodel the existing wet well floor to accommodate rotation of pumps, including concrete removal as required.
- Supply and installation of an aluminum ladder.
- Supply and installation of a new exhaust fan.

All work associated with FRP modifications, including any and all modifications to the existing wet well, must be carried out exclusively by Barski Industries personnel.

Payment will be made at the lump sum price tendered for this item in the Schedule of Quantities.

Item SA-11 4.04 FRP Piping within Wet Well

This item includes all costs associated with the supply and installation of the FRP discharge piping inside of the existing wet well.

All work associated with FRP modifications, including any and all modifications to the existing wet well, must be carried out exclusively by Barski Industries personnel.

Payment will be made at the lump sum price tendered for this item in the Schedule of Quantities.

Item SA-12-4.01 Flygt NP 3085 MT 3HP Submersible Pumps

This item includes all costs associated with the installation of two (2) Flygt NP 3805 MT 3HP Submersible Pumps complete with guide rails, brackets, and base elbows and all appurtenances, as per Contract Drawings and Specifications.

Installation of the pumps must be performed by the pump supplier (Xylem) and the FRP supplier (Barski).

Payment for this item in the Schedule of Quantities and Prices in the Proposal Submission Form will be made as follows: ten percent (10%) upon submission of shop drawings, twenty percent (20%) upon delivery to site, fifty-five percent (55%) upon installation, and the remaining fifteen percent (15%) will be held back until pump start-up has been completed by the vendor.

A2

Item SA-12-4.02 Concrete Wet Well Modifications

This item includes all costs associated with the modifications required inside of the existing concrete wet well. This work includes, but is not limited to:

- Supply and installation of an aluminum ladder.
- Supply and installation of SS pump guiderails.

Payment will be made at the lump sum price tendered for this item in the Schedule of Quantities.

Item SA-16-4.01 Flygt Model 3127 LT 3 Phase 425 Sanitary Pumps

This item includes all costs associated with supplying and installation of two (2) sewage pumps complete with guide rails, brackets, and base elbows.

Payment for this item in the Schedule of Quantities and Prices in the Proposal Submission Form will be made as follows: ten percent (10%) upon submission of shop drawings, twenty percent (20%) upon delivery to site, fifty-five percent (55%) upon installation, and the remaining fifteen percent (15%) will be held back until pump start-up has been completed by the vendor.

A2

Item SA-16-4.02 Piping & Valves

This item includes all costs associated with the supply and installation of the following:

5. 316L SCH10 stainless steel piping in the wet well and valve chamber.
6. All check valves, plug valves, knife gate valves, air valves, actuators, drains, including all related fittings, supports, brackets, assemblies and related components.

Payment for this item in the Schedule of Quantities and Prices in the Proposal Submission Form will be made as follows: ten percent (10%) upon submission of shop drawings, twenty percent (20%) upon delivery to site, fifty-five percent (55%) upon installation, and the remaining fifteen percent (15%) will be held back until the piping system has been pressure tested and confirmed leak-free.

A2

Item SA-16-4.03 Metal Works

This item includes all costs associated with the supply, fabrication, and installation of all metal works required for the pump station, including but not limited to:

1. Aluminum USF Access Hatches.
2. Ladder and Pull-Up Bars.
3. Pipe Supports & Anchors Designed by Contractor.
4. Lifting Davits.
5. Grating.
6. Vent Pipes.

Included in this item are any hardware, galvanizing, painting, welding, shop drawing review, engineering services and anything else required to complete the metal works as identified on the Contract Drawings and Specifications.

Payment will be made at the lump sum price tendered for this item in the Schedule of Quantities and Prices.

.5 Section 5 – Structural

Item SA-11-5.01 Pre-Cast Reinforced Concrete Valve Chamber.

This item includes all costs associated with the supply and installation of the pre-cast reinforced concrete valve chamber, including the custom access hatch cast-in to the valve lid.

Payment will be made at the lump sum price tendered for this item in the Schedule of Quantities.

Item SA-11-5.02 Cast-In-Place Concrete Slab

This item includes all costs associated with the supply and installation of cast-in-place reinforced concrete slabs for the electrical control's kiosk, as per contract drawings and specifications.

This includes coordinating confirmation from the structural engineer that the pads designed are suitable for the final approved shop drawings for the kiosk, and coordination of all conduit locations.

Payment will be made at the unit rate price tendered for this item in the Schedule of Quantities.

Item SA-12-5.01 Cast-In-Place Concrete Slabs

This item includes all costs associated with the supply and installation of cast-in-place reinforced concrete slabs for the electrical control's kiosk, as per contract drawings and specifications.

This includes coordinating confirmation from the structural engineer that the pads designed are suitable for the final approved shop drawings for the kiosk, and coordination of all conduit locations.

Payment will be made at the unit rate price tendered for this item in the Schedule of Quantities.

Item SA-12-5.02 Cast-In-Place Wet Well Slab

This item includes all costs associated with the supply and installation of cast-in-place reinforced concrete cover slabs for the wet well, in accordance with the contract drawings and specifications.

This work includes all formwork, reinforcing steel, openings, anchor points, and coordination with all penetrations shown on the drawings.

Payment will be made at the unit price tendered for this item in the Schedule of Quantities.

Item SA-16-5.01 Polyurethane Liner for Wet Well and Valve Chamber

Payment for this item will be at lump sum price submitted in the Schedule of Quantities and Prices in the Proposal Submission Form.

The lump sum price shall include but not limited to all work and materials necessary to supply and install OBIC Guard 1306 Armor liner to all interior wet well and valve chamber concrete surfaced. including preparation of existing surfaces as per manufacturers recommendations.

The Contractor must consult with a technical representative regarding installation procedures and priming requirements, and submit a proposed procedure to the Engineer for information.

Item SA-16-5.02 Cast-In-Place Wet Well and Valve Chamber Cover

This item includes all costs associated with the construction of the wet well and valve chamber concrete cover.

Included in this item are formwork, formwork supports, steel reinforcement, block-outs, metal inserts, fasteners, embedded metals, concrete, concrete mix submissions, concrete additives, concrete placement, concrete compaction, curing, concrete finishing, concrete testing and other related items, including adherence to all specifications on the structural drawings.

Payment will be made at the lump sum price tendered for this item in the Schedule of Quantities and Prices.

Item SA-16-5.03 Cast-In-Place Concrete Pads

This item includes all costs associated with the construction of the concrete pads for the electrical kiosk and generator.

Included in this item are formwork, formwork supports, steel reinforcement, block-outs, concrete benching metal inserts, fasteners, embedded metals, pipe penetrations, concrete, concrete mix submissions, concrete additives, concrete placement, concrete compaction, curing, concrete finishing, concrete testing and other related items, including adherence to all specifications on the structural drawings.

Payment will be made at the lump sum price tendered for this item in the Schedule of Quantities and Prices.

Item SA-16-5.04 Cast-In-Place Wet Well and Valve Chamber Walls, Floors and Benching

This item includes all costs associated with the construction of the below grade walls and floors inside the wet well and valve chamber.

Included in this item are formwork, formwork supports, steel reinforcement, block-outs, concrete benching metal inserts, fasteners, embedded metals, pipe penetrations, concrete, concrete mix submissions, concrete additives, concrete placement, concrete compaction, curing, concrete finishing, concrete testing and other related items, including adherence to all specifications on the structural drawings. This also includes all preparatory work to the existing structure, and structure fill, as required to complete the work.

Payment will be made at the lump sum price tendered for this item in the Schedule of Quantities and Prices.

.6 Section 6 – Pump Station Electrical

Item SA-11-6.01 Instrumentation in Wet Well, Wiring and Communications System

This item includes all costs associated with the supply and installation of all electrical works required to complete the pump station as per the Contract Drawings and Specifications, which isn't otherwise explicitly noted in other pay items to complete the electrical systems, including wiring, conduits, junction boxes and all electrical and communications systems.

This includes any, and all coordination, labour, equipment and materials required to complete the work.

Payment will be made at the lump sum price tendered for this item in the Schedule of Quantities.

Fifteen percent (15%) of the submitted price for this item in the Schedule of Quantities and Prices in the Proposal Submission Form will be held back until shop testing is complete and installation on site has been completed.

Item SA-11-6.02 Generator Restoration

This item includes all costs associated with the cleaning, sanding and re-painting of the existing standby generator system as specified in the contract documents.

This item includes labor, equipment and materials required to supply all related equipment to carry out the cleaning, sanding & painting of the existing generator enclosure.

Payment will be made at the lump sum price tendered for this item in the Schedule of Quantities.

Item SA-11-6.03 Electrical Kiosk and Controls

This item includes all costs associated with the supply, installation, testing and commissioning of a new electrical kiosk on a concrete pad. Refer to electrical specifications for details.

Payment for this item in the Schedule of Quantities and Prices in the Proposal Submission Form will be made as follows: ten percent (10%) upon submission of shop drawings, twenty percent (20%) upon delivery to site, fifty-five percent (55%) upon installation, and the remaining fifteen percent (15%) will be held back until shop testing is complete and installation on site has been completed.

A2

Item SA-11-6.04 SCADA Communications Including Antenna, Assembly and Pole

This item includes all costs associated with the supply and installation of the SCADA antenna, mast, base, assembly, wiring and conduits, and all other items required as per the Contract Drawings and Specifications.

This item also includes all shop testing, field testing, and commissioning of the SCADA system.

Payment for this item in the Schedule of Quantities and Prices in the Proposal Submission Form will be made as follows: ten percent (10%) upon submission of shop drawings, twenty percent (20%) upon delivery to site, fifty-five percent (55%) upon installation, and the remaining fifteen percent (15%) will be held back until installation on site has been completed.

A2

Item SA-12-6.01 Instrumentation in Wet Well, Wiring and Communications System

This item includes all costs associated with the supply and installation of all electrical works required to complete the pump station as per the Contract Drawings and Specifications, which

isn't otherwise explicitly noted in other pay items to complete the electrical systems, including wiring, conduits, junction boxes and all electrical and communications systems.

This includes any, and all coordination, labour, equipment and materials required to complete the work.

Payment for this item in the Schedule of Quantities and Prices in the Proposal Submission Form will be made as follows: ten percent (10%) upon submission of shop drawings, twenty percent (20%) upon delivery to site, fifty-five percent (55%) upon installation, and the remaining fifteen percent (15%) will be held back until shop testing is complete and installation on site has been completed.

A2

Item SA-12-6.02 Electrical Kiosk and Controls

This item includes all costs associated with the supply, installation, testing and commissioning of a new electrical kiosk on a concrete pad. Refer to electrical specifications for details.

Payment for this item in the Schedule of Quantities and Prices in the Proposal Submission Form will be made as follows: ten percent (10%) upon submission of shop drawings, twenty percent (20%) upon delivery to site, fifty-five percent (55%) upon installation, and the remaining fifteen percent (15%) will be held back until shop testing is complete and installation on site has been completed.

A2

Item SA-12-6.03 SCADA Communications Including Antenna, Assembly and Pole

This item includes all costs associated with the supply and installation of the SCADA antenna, mast, base, assembly, wiring and conduits, and all other items required as per the Contract Drawings and Specifications.

This item also includes all shop testing, field testing, and commissioning of the SCADA system.

Payment for this item in the Schedule of Quantities and Prices in the Proposal Submission Form will be made as follows: ten percent (10%) upon submission of shop drawings, twenty percent (20%) upon delivery to site, fifty-five percent (55%) upon installation, and the remaining fifteen percent (15%) will be held back until installation on site has been completed.

A2

Item SA-16-6.01 Electrical Service

This item covers all costs associated with the coordination and scheduling with new power service, including but not limited to materials, labour, and coordination, as indicated on the Contract Drawings and Specifications.

Payment will be made at the lump sum price tendered for this item in the Schedule of Quantities.

Item SA-16-6.02 Generator Set

This item includes all costs associated with the supply, installation, testing and commissioning of a new standby generator system on a concrete pad as specified in the contract documents.

This item includes labor, equipment and materials required to supply and install the complete generator set and all related items required for the generator system including interconnecting control and power wiring to the electrical kiosk and transfer switch.

Payment will be made at the lump sum price tendered for this item in the Schedule of Quantities.

Payment for this item in the Schedule of Quantities and Prices in the Proposal Submission Form will be made as follows: ten percent (10%) upon submission of shop drawings, twenty percent (20%) upon delivery to site, fifty-five percent (55%) upon installation, and the remaining fifteen percent (15%) will be held back until load testing has been successfully completed by the vendor.

A2

Item SA-16-6.03 Electrical Kiosk

This item includes all cost associated with supply and installation of the electrical kiosk, including but not limited to materials and labour, survey layout, traffic control, supply and install electrical kiosk and control, supply and install all electrical wiring and conduits including the power supply to pump station, flow meter chamber and kiosk, testing, and all other work and materials necessary to complete the installation as specified in the specifications or as shown on the Contract Drawings or as otherwise directed by and to the satisfaction of the Engineer.

Payment will be made at the lump sum price tendered for this item in the Schedule of Quantities.

Payment for this item in the Schedule of Quantities and Prices in the Proposal Submission Form will be made as follows: ten percent (10%) upon submission of shop drawings, twenty percent (20%) upon delivery to site, fifty-five percent (55%) upon installation, and the remaining fifteen percent (15%) will be held back until shop testing is complete and installation on site has been completed.

A2

Item SA-16-6.04 Instrumentation

This item includes all costs associated with the supply and installation of the following:

1. Pressure transmitters.
2. Pressure gauges.
3. Flow meters

4. Flow switches.
5. Ultrasonic level sensors.
6. All other related equipment identified in the Contract Drawings and Specifications.

Payment will be made at the lump sum price tendered for this item in the Schedule of Quantities.

Payment for this item in the Schedule of Quantities and Prices in the Proposal Submission Form will be made as follows: ten percent (10%) upon submission of shop drawings, twenty percent (20%) upon delivery to site, fifty-five percent (55%) upon installation, and the remaining fifteen percent (15%) will be held back until shop testing is complete and installation on site has been completed.

A2

Item SA-16-6.05 SCADA Antenna and Assembly

This item includes all costs associated with the supply and installation of the SCADA antenna, mast, base, assembly, wiring and conduits, and all other items required as per the Contract Drawings and Specifications.

Payment will be made at the lump sum price tendered for this item in the Schedule of Quantities.

Payment for this item in the Schedule of Quantities and Prices in the Proposal Submission Form will be made as follows: ten percent (10%) upon submission of shop drawings, twenty percent (20%) upon delivery to site, fifty-five percent (55%) upon installation, and the remaining fifteen percent (15%) will be held back until installation on site has been completed.

A2

Item SA-16-6.06 Electrical Systems

This item includes all costs associated with the supply and installation of all electrical works required to complete the pump station as per the Contract Drawings and Specifications, which isn't otherwise explicitly noted in other pay items to complete the electrical systems including power, distribution, lighting, and instrumentation.

This includes any and all labour, equipment and materials required.

Payment will be made at the lump sum price tendered for this item in the Schedule of Quantities.

Payment for this item in the Schedule of Quantities and Prices in the Proposal Submission Form will be made as follows: ten percent (10%) upon submission of shop drawings, twenty percent (20%) upon delivery to site, fifty-five percent (55%) upon installation, and the remaining fifteen percent (15%) will be held back until shop testing is complete and installation on site has been completed.

A2

Item SA-16-6.07 4" Communication Conduit

This item includes all costs associated with the supply and installation of the communications conduit as per the Contract Drawings and Specifications.

Payment will be made at the lump sum price tendered for this item in the Schedule of Quantities.

.7 Section 7 – Optional

Item 7.01 Over Excavation and Disposal Offsite (*PROVISIONAL*)

This item includes all costs associated with over excavation and disposal of the unsuitable native materials at the subgrade level, as directed by the Engineer, and the replacement of unsuitable materials with imported granular materials meeting the contract specifications.

All dewatering, groundwater treatment and discharge, and permitting are incidental to the work.

Payment for this item will be made at the unit price tendered for this item for each cubic meter in place based on site measurements taken and agreed to prior to backfilling.

Item 7.02 Stainless Steel Piping within Wet Well (*PROVISIONAL*)

This item includes all costs associated with the supply and installation of SS 316L SCH10S discharge piping inside of the existing wet well.

If the owner elects to use stainless steel piping instead of FRP piping, payment for this item will be made at the lump sum price tendered for this item in the Schedule of Quantities, in lieu of pay item 4.04.

Item SA-16-7.01 Alternate Forcemain Profile and Blow-Down Assembly (*Provisional*)

This item covers all costs associated with the alternate forcemain profile identified in the contract drawings, to avoid conflicts with existing utilities, and supply and installation of the blow-down chamber as per Contract drawings and specifications. This include all labour and materials, including additional shoring, excavation, and backfill, to achieve the lower pipe elevations and chamber installation.

Payment will be made at the lump sum price tendered for this item in the Schedule of Quantities.

Item SA-16-7.02 Rock Removal (Provisional)

Rock will be measured in cubic meters. This item provides compensation for the additional cost of removing and disposing of rock not included as excavation work under other related excavation pay items. Rock excavation shall include the excavation and disposal of all rock materials which in the opinion of the Engineer requires for its removal either drilling, blasting, or breaking with a power-operated hand tool. Rock does not include clay, hardpan, or boulder clays.

Rock excavation shall include individual boulders or other continuous unbreakable concrete debris having individual volumes more than 1 cubic meter. Volume will be calculated from cross-section of original rock surface and design subgrade lines for excavation.

Payment for this item will be made at the unit rate price submitted in the Schedule of Quantities and Prices in the Proposal Submission Form.

Item SA-16-7.03 Over Excavation (Provisional)

This item includes all costs associated with over excavation and disposal of the unsuitable native materials at the subgrade level, as directed by the Engineer, and the replacement of unsuitable materials with imported granular materials meeting the contract specifications.

All dewatering, groundwater treatment and discharge, and permitting are incidental to the work.

Payment for this item will be made at the unit rate price submitted in the Schedule of Quantities and Prices in the Proposal Submission Form.

Item SA-16-7.04 Allowance for Structural Assessment of Existing Overflow Tank

This item includes all costs associated with providing unimpeded access and accommodating a structural assessment of the existing overflow tank during construction while the system is under bypass operations.

Included in this item are coordination with the City and the City's structural consultant, maintaining the bypass system as required, safe access, lighting, ventilation, cleaning as required, scheduling constraints, and all other measures necessary to allow the structural assessment to be carried out without obstruction for a minimum duration of three (3) consecutive working days.

Payment will be made at the lump sum price tendered for this item in the Schedule of Quantities.

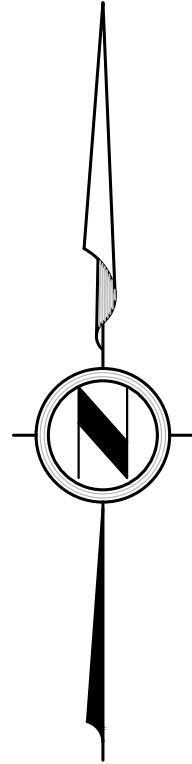
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NOTICE TO CONTRACTOR

IT IS THE RESPONSIBILITY OF THE CONTRACTOR'S SURVEYOR TO VERIFY THAT ALL LEGAL SURVEY DIMENSIONS SHOWN ON THE ENGINEERS DRAWINGS AGREE WITH THOSE ON THE REGISTERED LEGAL SURVEY PLAN. SHOULD THERE BE ANY DISCREPANCIES, THEN IMMEDIATELY NOTIFY THE ENGINEER OF RECORD

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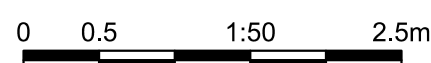


 **APLIN MARTIN**

1818-1177 West Hastings Street, Vancouver, B.C. Canada V6E 2K3
Tel: (604) 678-9434, Fax: (604) 597-9061, Email: general@aplinmartin.com

	The location of existing underground utilities are shown in an approximate way only & have not been independently verified by the owner or its representative. The contractor shall determine the exact location of all existing utilities before commencing work, and agrees to be fully responsible for any and all damages which might be occasioned by the contractor's failure to exactly locate and preserve any and all underground utilities.
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TITLE: BRUNETTE AVENUE SANITARY PUMP STATION (SA-16) FENCING & BOLLARDS	
PROJECT NO.	SCALE : HORZ. 1:50 VERT. 1:50
DRAWING NO.	A & M DRAWING NO. 20-5142-C02



Bollard Post, Model R-7902

General Description:

Make a pronounced statement on entry to your streetscape, business, park, school or stadium with the contemporary and practical design of the model R-7902 steel bollard. A staple of the product line, it will complement the aesthetics of almost any architectural style. It can be embedded in new concrete or surface-mounted on existing concrete. For locations where access needs fluctuate, it can also be installed with removable or fold down mountings. The model R-7902 can be finished in one of seven different powder-coated color options and it is kept in stock, available to ship immediately.

For more information on bollard post installation, please visit: www.reliance-foundry.com/bollard/installation-bollards

Specifications:

Height Above Grade: 36" [914]

Diameter: 4 5/16" [110]

Weight: 31 lbs [14kg] (Bollard Post Full Length)

Material: Steel (ASTM A36)

Finish Options:

- ✓ Polyester Powdercoated

See Reliance Foundry's standard color options at www.reliance-foundry.com/bollard/colors-bollards

Mount Options:

- ✓ Removable Receiver with Lid (see sheet 2 of 8)
- Removable Receiver with Chain (see sheet 3 of 8)
- Fixed Embedded Mount (see sheet 4 of 8)
- Flanged Surface Mount (see sheet 5 of 8)
- Fold Down Mount (see sheet 6 of 8)
- Removable Shallow Mount (see sheet 7 of 8)
- Optional Chain Accessory (see sheet 8 of 8)

SECTION A-A

Removable Receiver with Lid

(For important detail regarding installation with OPTIONAL bollard chain accessories, refer to sheet 7 of 7)

Notes:

- Embedment details are for reference illustration only. Minimum foundation sizes depend on local soil conditions, weather conditions, and engineering requirements.
- Bollard post is provided as shown, with material detailed in legend below. Concrete, foundation and/or installation ordered separately or provided by others.
- This drawing is not drawn to scale. Dimensions provided herein is for reference only. Please consult Reliance Foundry sales professionals if any dimension is critical to your particular installation.
- Reliance Foundry reserves the right to amend design and specifications without prior notice for product improvement.

PARTS LIST					
ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL	WEIGHT
1	1	R7902 Removable	Bollard R7902 Removable Assembly	Steel Powder Coated	31 lbs
2	1	R7901R Receiver	R7901R Receiver Assembly with Lid	Galvanized Steel with 316 Stainless Steel Cover	24 lbs
3	1	Padlock (Optional)	Optional Padlock (Brass or Stainless Steel)	Choice of Brass or Stainless Steel	5/8 lbs

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RELIANCE FOUNDRY
— SINCE 1925 —

Unit 207, 6450 - 148 Street, Surrey, BC V3S 7G7, Canada
1-888-735-5680 info@reliance-foundry.com
www.reliance-foundry.com

TITLE

Bollard Post, Model R-7902

SIZE	DWG NO	REV
C	R-7902_Public	A04

NOT TO SCALE UNLESS OTHERWISE SPECIFIED:
DIMS ARE IN INCHES [MILLIMETERS] SHEET 2 OF 8

Make a pronounced statement on entry to your streetscape, business, park, school or stadium with the contemporary and practical design of the model R-7902 steel bollard. A staple of the product line, it will complement the aesthetics of almost any architectural style. It can be embedded in new concrete or surface-mounted on existing concrete. For locations where access needs fluctuate, it can also be installed with removable or fold down mountings. The model R-7902 can be finished in one of seven different powder-coated color options and it is kept in stock, available to ship immediately.

Specifications:

Diameter: 4 5/16" [110]

Weight: 31 lbs [14kg] (Bollard Post Full Length)

Material: Steel (ASTM A36)

Finish Options:

- ### Mount Options:

- ✓ Removable Receiver with Lid
(see sheet 2 of 8)
- Removable Receiver with Chain
(see sheet 3 of 8)
- Fixed Embedded Mount
(see sheet 4 of 8)
- Flanged Surface Mount
(see sheet 5 of 8)
- Fold Down Mount
(see sheet 6 of 8)
- Removable Shallow Mount
(see sheet 7 of 8)
- Optional Chain Accessory
(see sheet 8 of 8)

* If local frost line exceeds 12" deep, provide adequate drainage by piping through concrete, connect to drain rock layer underneath

Removable Receiver with Lid

(For important detail regarding installation with OPTIONAL bollard chain accessories, refer to sheet 7 of 7)

Notes:

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- Bollard post is provided as shown, with material detailed in legend below. Concrete, foundation and/or installation ordered separately or provided by others.
- This drawing is not drawn to scale. Dimensions provided herein is for reference only. Please consult Reliance Foundry sales professionals if any dimension is critical to your particular installation.
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ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL	WEIGHT
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2	1	R7901R Receiver	R7901R Receiver Assembly with Lid	Galvanized Steel with 316 Stainless Steel Cover	24 lbs
3	1	Padlock (Optional)	Optional Padlock (Brass or Stainless Steel)	Choice of Brass or Stainless Steel	5/8 lbs

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TITLE

Bollard Post, Model R-7902

	SIZE
	C

DWG NO
R-7902 Public

REV
A04

NOT TO SCALE	UNLESS OTHERWISE SPECIFIED: DIMS ARE IN INCHES [MILLIMETERS]	SHEET 2 OF 8
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SA-11 SANITARY PUMP STATION
BETWEEN QUEENSBOROUGH MIDDLE
SCHOOL AND 216 CAMPBELL STREET
300 LAWRENCE ST, NEW WESTMINSTER, BC V3M 5L2



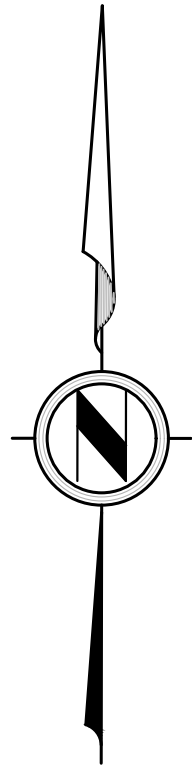
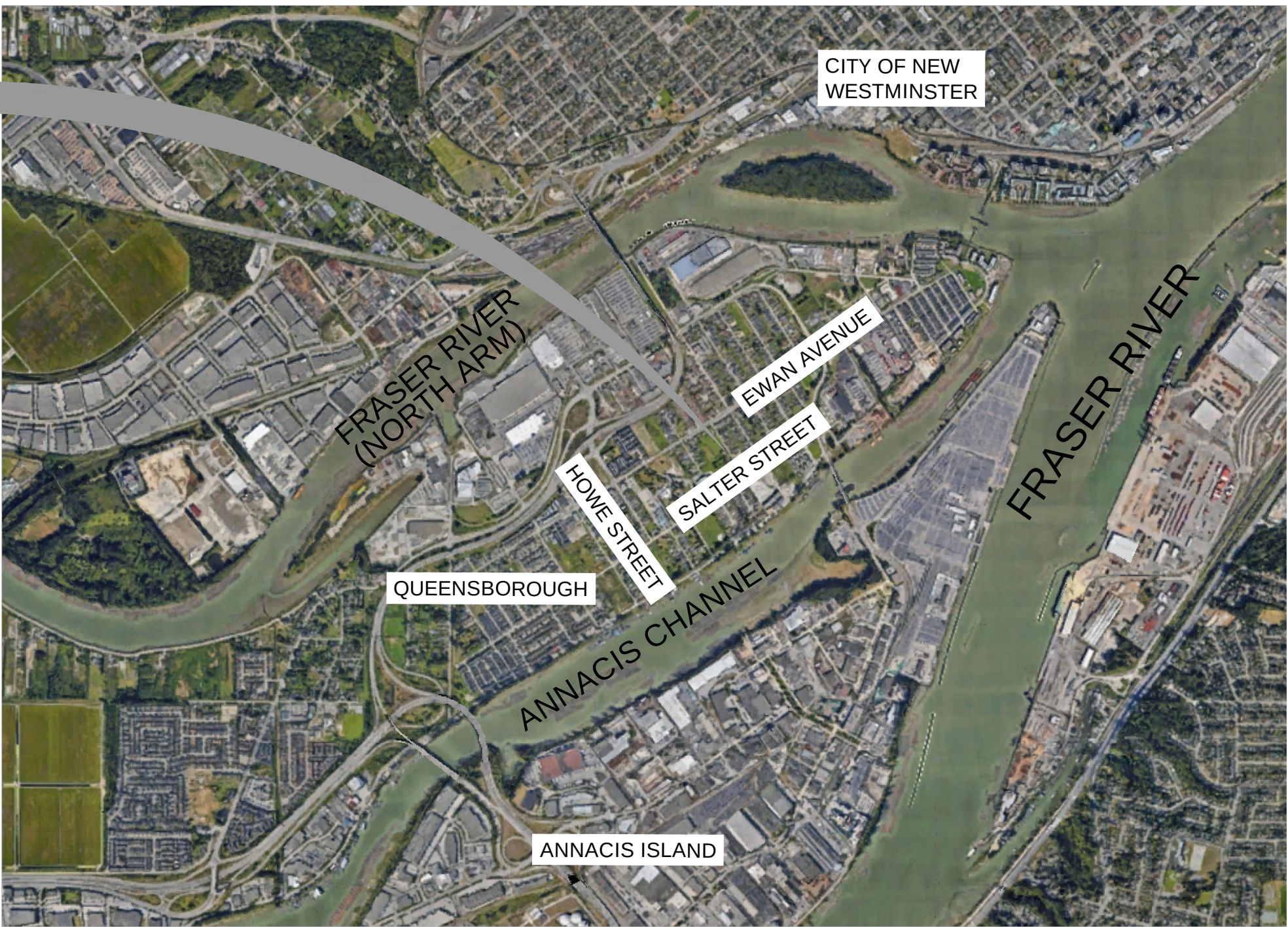
1818-1177 West Hastings Street, Vancouver, B.C. Canada V6E 2K3
Tel: (604) 678-9434, Fax: (604) 597-9061, Email: general@aplinmartin.com



CLIENT:
CITY OF NEW WESTMINSTER
511 ROYAL AVENUE, NEW WESTMINSTER, BC V3L 1H9
PH: 604-521-3711

PROJECT:
SA-11 SANITARY PUMP STATION UPGRADES
300 LAWRENCE ST, NEW WESTMINSTER, BC V3M 5L2

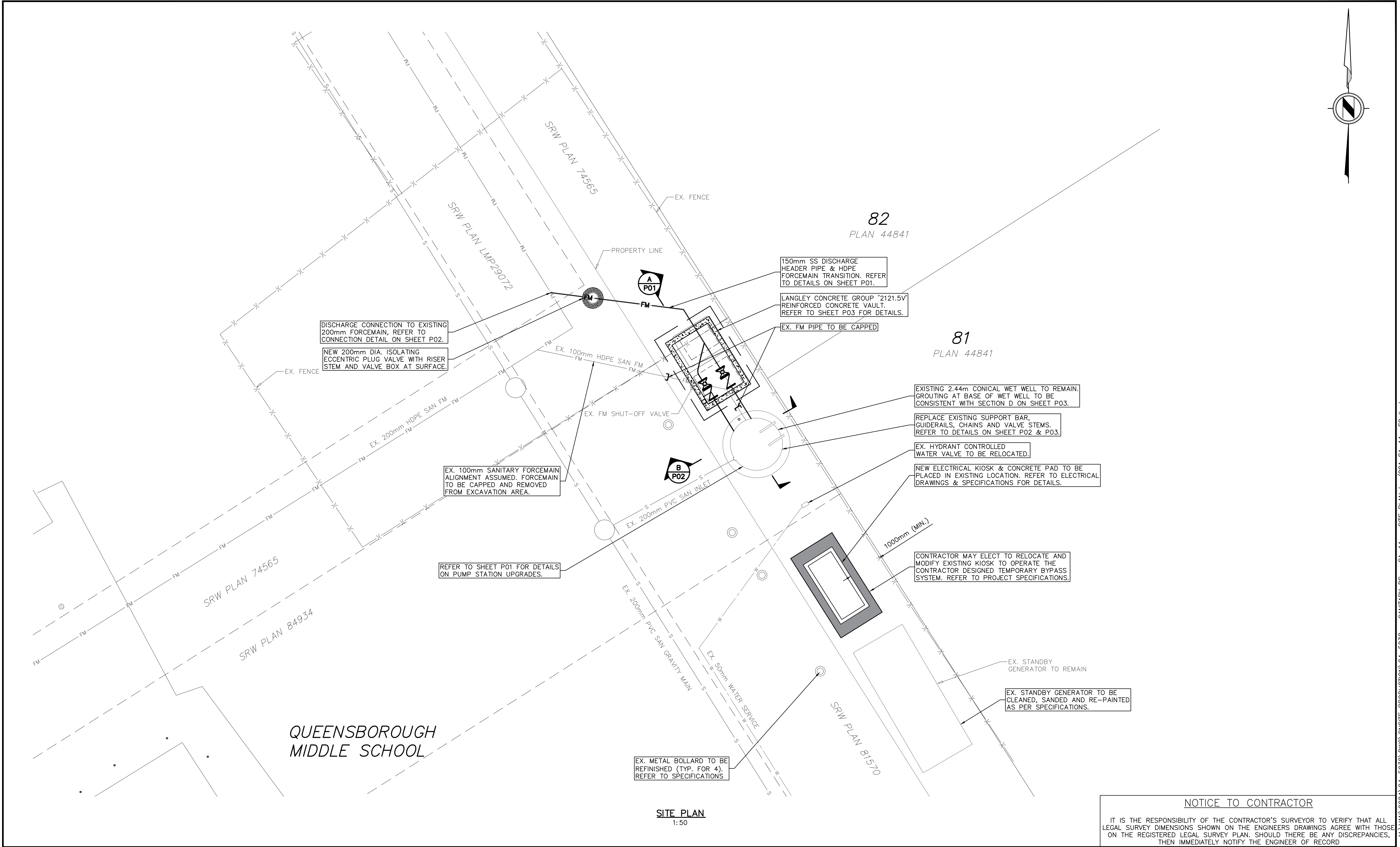
ISSUED FOR ADDENDUM #2



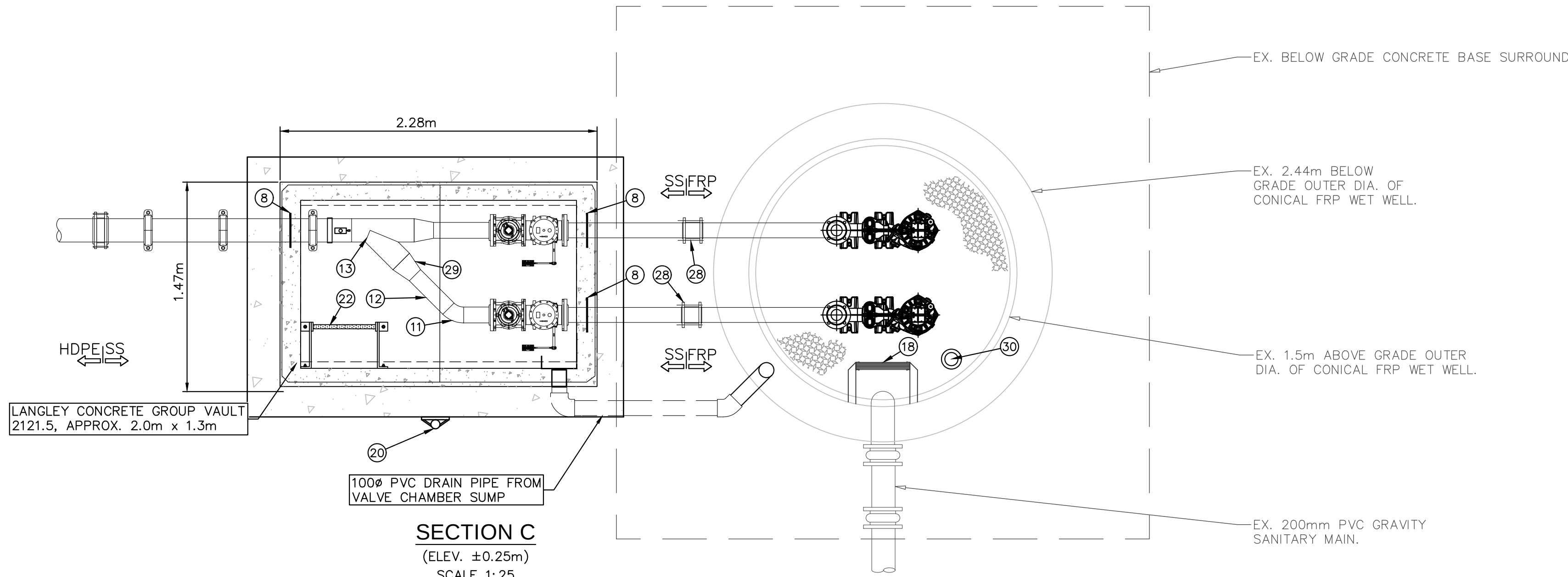
SITE LOCATION
NTS

DRAWING INDEX	
DWG No.	SHEET TITLE
00	COVER SHEET
C01	CIVIL SITE PLAN
P01	SECTION VIEWS & BOM
P02	WET WELL SECTION VIEW
P03	STANDARD DETAILS
E01	SITE PLAN & SINGLE LINE DIAGRAM
E02	ELECTRICAL KIOSK LAYOUT
E03	BLOCK DIAGRAMS & DETAILS
E04	SCHEMATIC DIAGRAM 1
E05	SCHEMATIC DIAGRAM 2
E06	SCHEMATIC DIAGRAM 3
E07	CONTROL PANEL LAYOUT
S1.0	STRUCTURAL NOTES
S2.0	ELECTRICAL KIOSK CONCRETE PAD

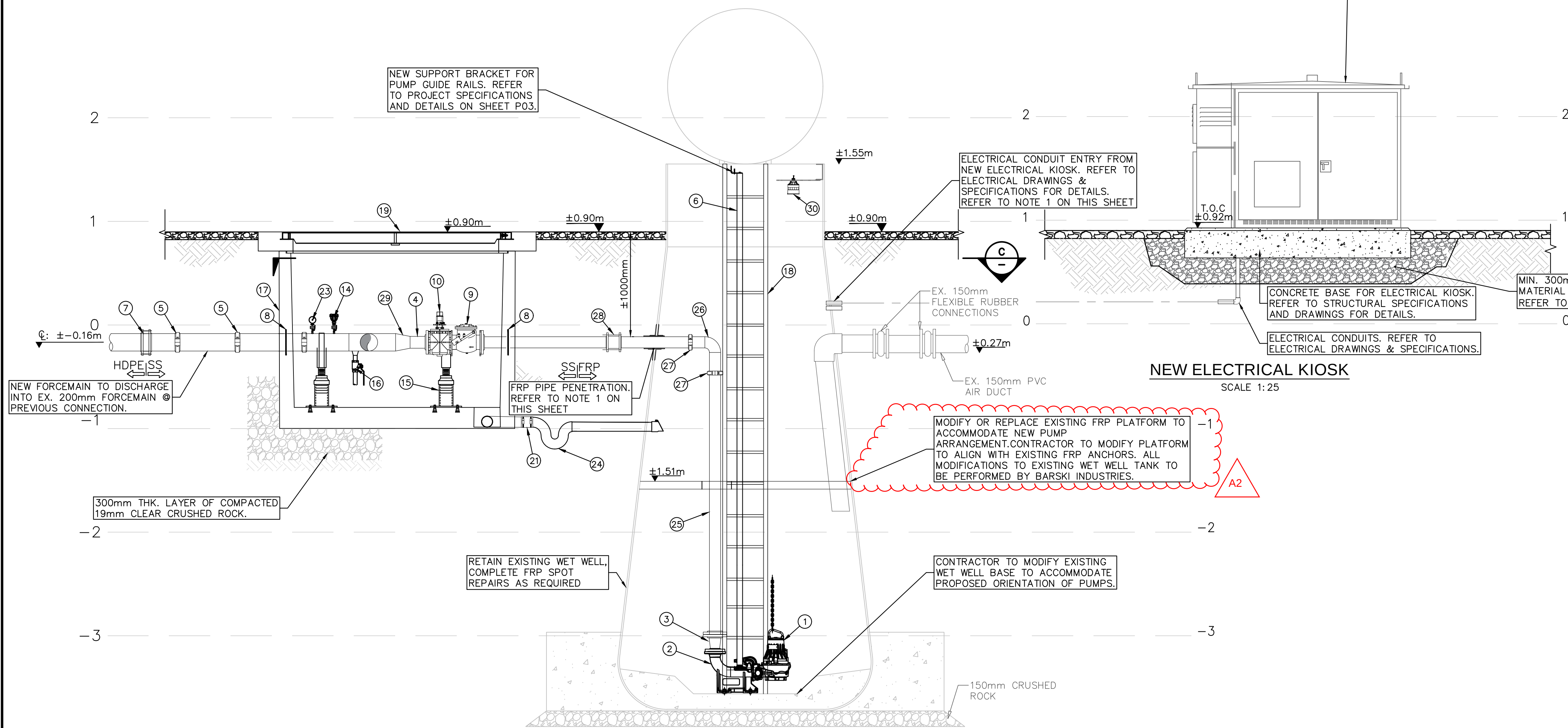
APLIN & MARTIN PROJECT No. 24-5038
CITY OF NEW WESTMINSTER CONTRACT No.



LEGAL DESCRIPTION: .						CLIENT: CITY OF NEW WESTMINSTER 511 ROYAL AVENUE, NEW WESTMINSTER, BC, V3L 1H9 604-521-3711		PROJECT: SANITARY PUMP STATION UPGRADE PRE-DESIGN NEW WESTMINSTER BC		TITLE: SA-11 PUMP STATION CIVIL SITE PLAN		DESIGN: MDJ CHECK: JAH DRAWN: KDD APPR: JAH	
B.M. MONUMENT NO. ELEVATION: . LOCATED AT . STREET & . AVENUE						PROJECT NO. .		DRAWING NO. .		SCALE : HORZ. 1:50 VERT. 1:50		A & M FILE: 24-5038	
REV. NO. DESCRIPTION DR CH DATE APP						DRAWING DATE: JUN, 2025		SHEET NO. 01 OF 04		REV. 3			
1 ISSUED FOR COORDINATION PCN ER 10/06/25 LO'C													
2 ISSUED FOR 90% DETAILED DESIGN FG ER 09/10/25 LO'C													
3 ISSUED FOR TENDER FG ER 22/01/26 LO'C													
4 RE-ISSUED FOR ADDENDUM #2 FG ER 27/04/26 LO'C													
APLIN MARTIN ENGINEERING ARCHITECTURE PLANNING SURVEYING Aplin & Martin Consultants Ltd. 201 - 12448 82 Avenue, Surrey, B.C. Canada V3W 3E9 Tel: (604) 597-9058, Fax: (604) 597-9061, Email: general@aplinmartin.com													



SECTION C
(ELEV. ±0.25m)
SCALE 1:25



SECTION A
SCALE 1:25

BILL OF MATERIALS		
ITEM	QTY	DESCRIPTION
1	2	FLYGT NP 3102 SH3 6.43HP SUBMERSIBLE PUMP. REFER TO PROJECT SPECIFICATIONS.
2	2	75mm SS FLANGED ELBOW.
3	2	75mmx100mm FRP INCREASER.
4	2	100mm SS RISER PIPE.
5	7	150mm STYLE W77S VICTAULIC COUPLING. REFER TO PROJECT SPECIFICATIONS.
6	2	50mm GUIDE RAIL, SCH. 40, 316 SS.
7	1	150mm EPOXY COATED 741 FLANGE ADAPTOR FROM SS TO HDPE.
8	3	100mm PIPE PENETRATION LINK SEALS. REFER TO DETAIL SHEET P03.
9	2	100mm CHECK VALVE. REFER TO PROJECT SPECIFICATIONS.
10	2	100mm PLUG VALVE. REFER TO PROJECT SPECIFICATIONS.
11	1	100mm 45° SS BEND.
12	1	100mm SS DISCHARGE PIPE.
13	1	150mmx150mmx150mm SS WYE TEE.
14	1	PRESSURE TRANSMITTER c/w 50mm BALL VALVE AND DIAPHRAGM SEAL. REFER TO DETAIL SHEET P03.
15	3	100mm ADJUSTABLE PIPE SUPPORT. REFER TO DETAIL SHEET P03.
16	1	50mm BALL VALVE AND PIPE DRAIN. REFER TO DETAIL SHEET P03.
17	1	LANGLEY CONCRETE GROUP VAULT 2121.5 OR APPROVED EQUIVALENT.
18	1	WET WELL 'FLYGT' ALUMINUM LADDER. REFER TO DETAIL SHEET P03.
19	1	USF H20 RATED DOUBLE LEAF DOOR (74"x46") EQUIPMENT HATCH CAST IN CONCRETE SLAB. REFER TO SHEET P02.
20	1	75mm SIDE-MOUNTED MSA DAVIT RECEIVER, CAST-IN-CONCRETE. REFER TO PROJECT SPECIFICATIONS.
21	1	100mm PVC DRAIN PIPE c/w 90° BEND(2) AND 45° BEND (1)
22	1	VALVE CHAMBER 'FLYGT' ALUMINIUM LADDER. REFER TO PROJECT SPECIFICATIONS.
23	1	PRESSURE GAUGE c/w 50mm BALL VALVE AND DIAPHRAGM SEAL. REFER TO DETAIL SHEET P03.
24	1	100mm FRP DRAIN WITH P-TRAP AND TF-2 TIDEFLEX VALVE
25	—	100mm FRP DUPLEX PIPING
26	3	100mm FRP 90° BEND
27	4	100mm GF 3057 RESTRAINT COUPLERS
28	3	100mm GF MULTI-JOINT 3000+
29	2	100mmx150mm SS INCREASER.
30	1	ULTRASONIC LEVEL TRANSDUCER C/W MOUNTING BRACKET AND SUBMERGENCE SHIELD. REFER TO ELECTRICAL DRAWINGS FOR DETAILS.

NOTES:

- ALL MODIFICATIONS TO EXISTING WET WELL, INCLUDING PIPE PENETRATION AND REPAIRS, TO BE COMPLETED BY BARSKI INDUSTRIES. REFER TO PROJECT SPECIFICATIONS.
- ALL STAINLESS STEEL PIPING TO BE 316L SCHED 10S

NOTICE TO CONTRACTOR

IT IS THE RESPONSIBILITY OF THE CONTRACTOR'S SURVEYOR TO VERIFY THAT ALL LEGAL SURVEY DIMENSIONS SHOWN ON THE ENGINEERS DRAWINGS AGREE WITH THOSE ON THE REGISTERED LEGAL SURVEY PLAN. SHOULD THERE BE ANY DISCREPANCIES, THEN IMMEDIATELY NOTIFY THE ENGINEER OF RECORD

LEGAL DESCRIPTION:					
B.M.	MONUMENT NO.	ELEVATION:			
LOCATED AT	STREET &	AVENUE			
REV. NO.	DESCRIPTION	DR	CH	DATE	APP
1	ISSUED FOR COORDINATION	PCN	ER	10/06/25	LO'C
2	ISSUED FOR 90% DETAILED DESIGN	FG	ER	09/10/25	LO'C
3	ISSUED FOR TENDER	FG	ER	22/01/26	LO'C
4	RE-ISSUED FOR ADDENDUM #2	FG	ER	27/04/26	LO'C

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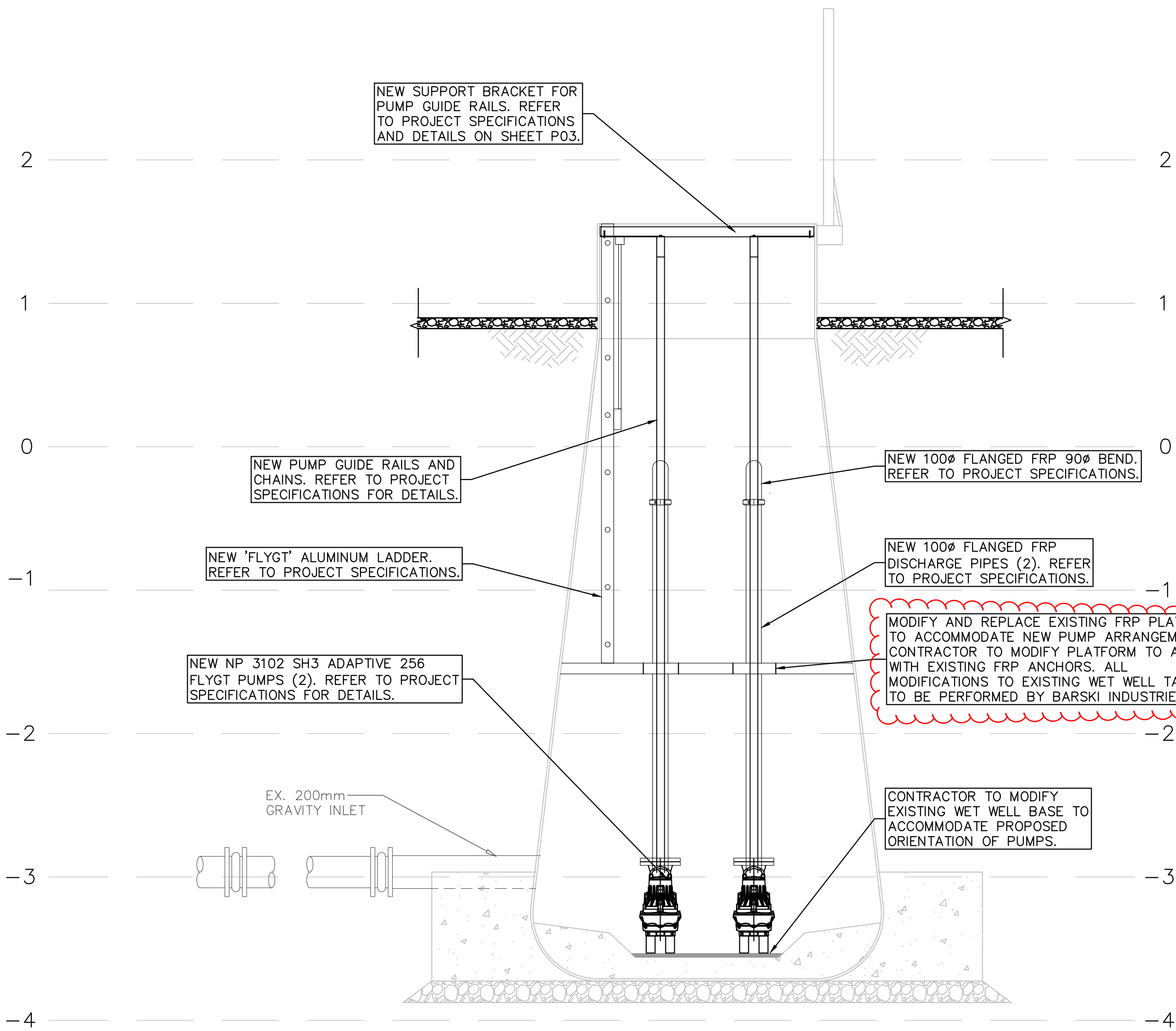
Aplin & Martin Consultants Ltd.
201 - 12448 82 Avenue, Surrey, B.C. Canada V3W 3E9
Tel: (604) 597-9058, Fax: (604) 597-9061, Email: general@aplinmartin.com

CLIENT:	CITY OF NEW WESTMINSTER 511 ROYAL AVENUE, NEW WESTMINSTER, BC, V3L 1H9 604-521-3711
PROJECT:	SANITARY PUMP STATION UPGRADE PRE-DESIGN NEW WESTMINSTER BC

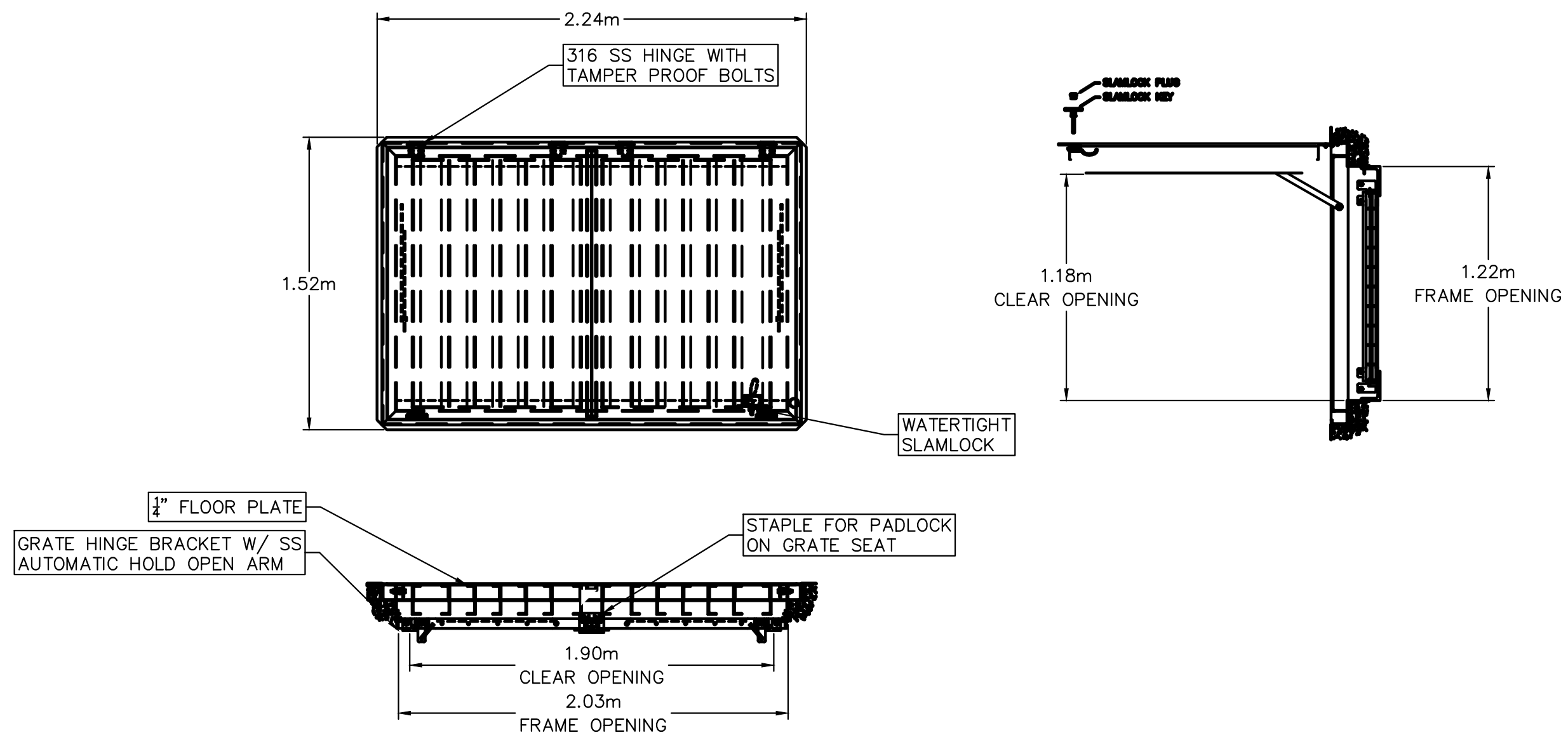
The location of existing underground utilities are shown in an approximate way only & have not been independently verified by the owner or its representative. The contractor shall determine the exact location of all existing utilities before commencing work, and agrees to be fully responsible for any and all damages which might be occasioned by the contractor's failure to exactly locate and preserve any and all underground utilities.

TITLE:		DESIGN: MDJ	CHECK: JAH
SA-11 PUMP STATION SECTION VIEWS & BOM		DRAWN: KDD	APPR: JAH
		A & M FILE: 24-5038	
PROJECT NO.	SCALE : AS SHOWN HORZ. N/A VERT. N/A	DRAWING DATE: JUN, 2025	
DRAWING NO.	A & M DRAWING NO. 24-5038- P01	SHEET NO. 02 OF 04	REV. 04

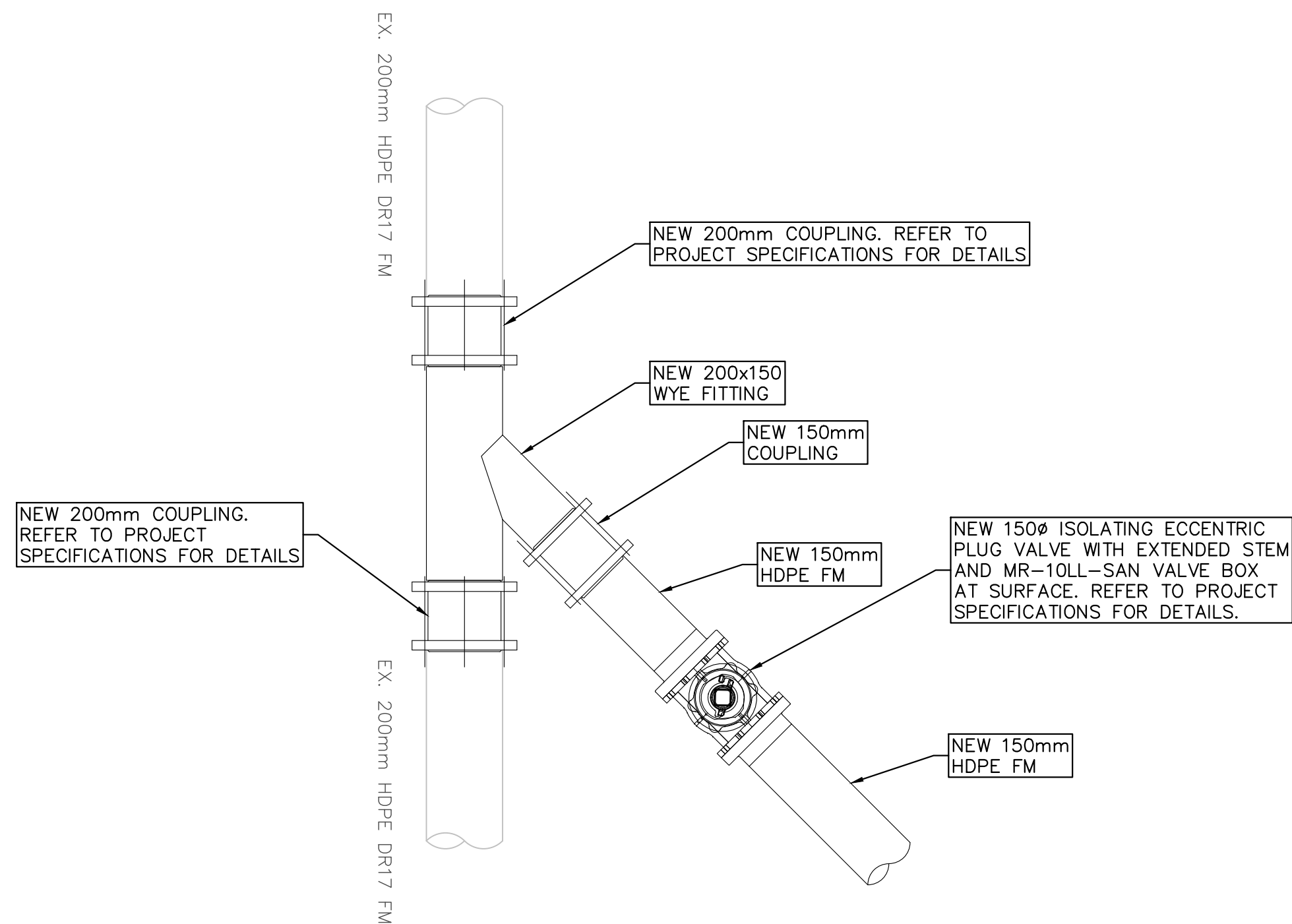
0 0.5 1.50 2.5m



SECTION B
SCALE 1:25



74"x46" CLEAR OPENING HATCH
SCALE: 1:25



SS TO HDPE CONNECTION
SCALE: NTS

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LEGAL DESCRIPTION: .

B.M. . MONUMENT NO. . ELEVATION: .

LOCATED AT . STREET & . AVENUE

REV. NO.	DESCRIPTION	DR	CH	DATE	APP
1	ISSUED FOR COORDINATION	PCN	ER	10/06/25	LO'C
2	ISSUED FOR 90% DETAILED DESIGN	FG	ER	09/10/25	LO'C
3	ISSUED FOR TENDER	FG	ER	22/01/26	LO'C
4	RE-ISSUED FOR ADDENDUM #2	FG	ER	27/04/26	LO'C

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ENGINEERING ARCHITECTURE PLANNING SURVEYING

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201 - 12448 82 Avenue, Surrey, B.C. Canada V3W 3E9
Tel: (604) 597-9058, Fax: (604) 597-9061, Email: general@aplinmartin.com

CLIENT: CITY OF NEW WESTMINSTER

511 ROYAL AVENUE, NEW WESTMINSTER, BC, V3L 1H9
604-521-3711

PROJECT: SANITARY PUMP STATION UPGRADE PRE-DESIGN

NEW WESTMINSTER BC

TITLE: SA-11 PUMP STATION WET WELL SECTION VIEWS

PROJECT NO. .

DRAWING NO. .

SCALE : AS SHOWN
HORZ. N/A
VERT. N/A

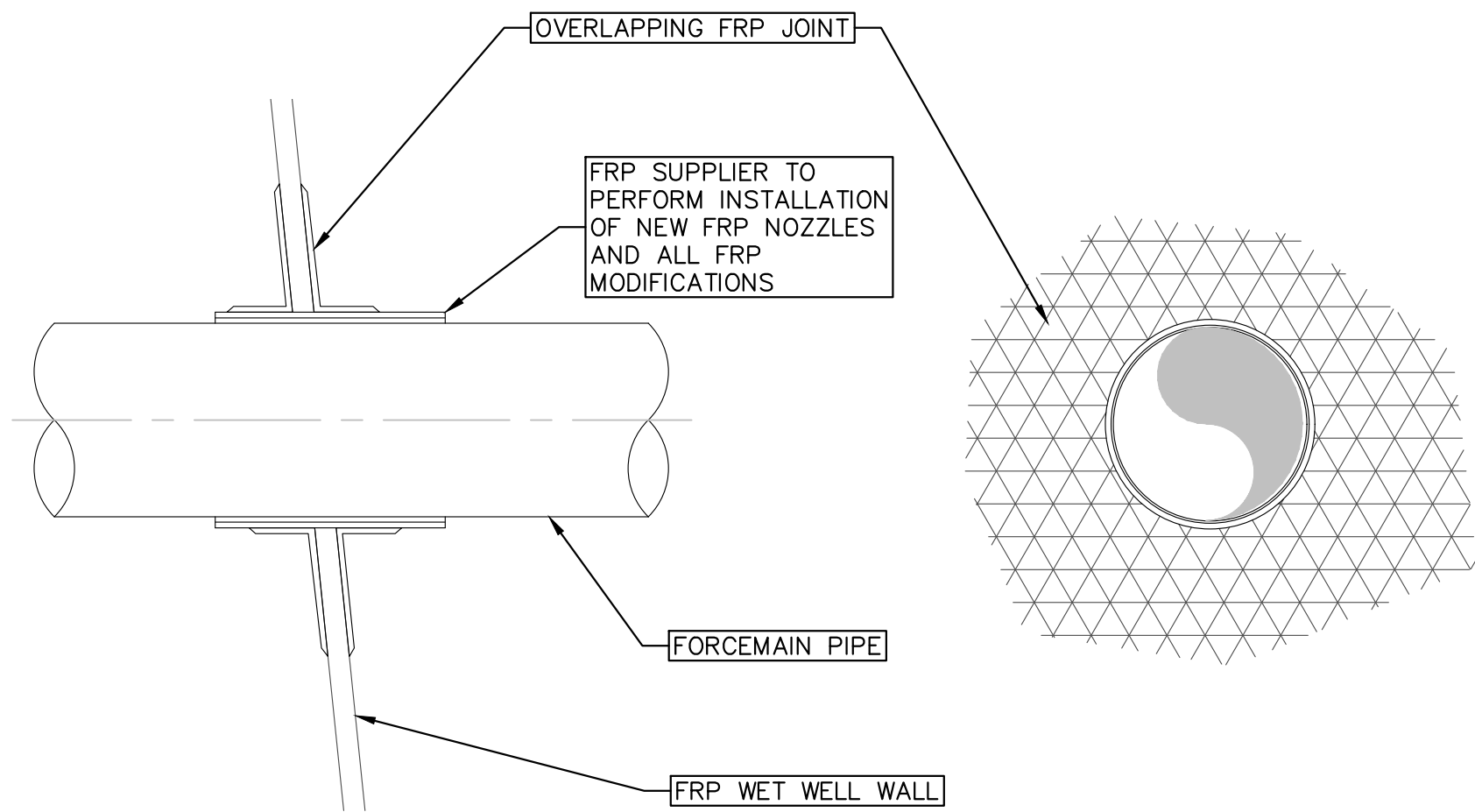
A & M DRAWING NO. 24-5038- P02

DESIGN: MDJ CHECK: JAH
DRAWN: KDD APPR: JAH

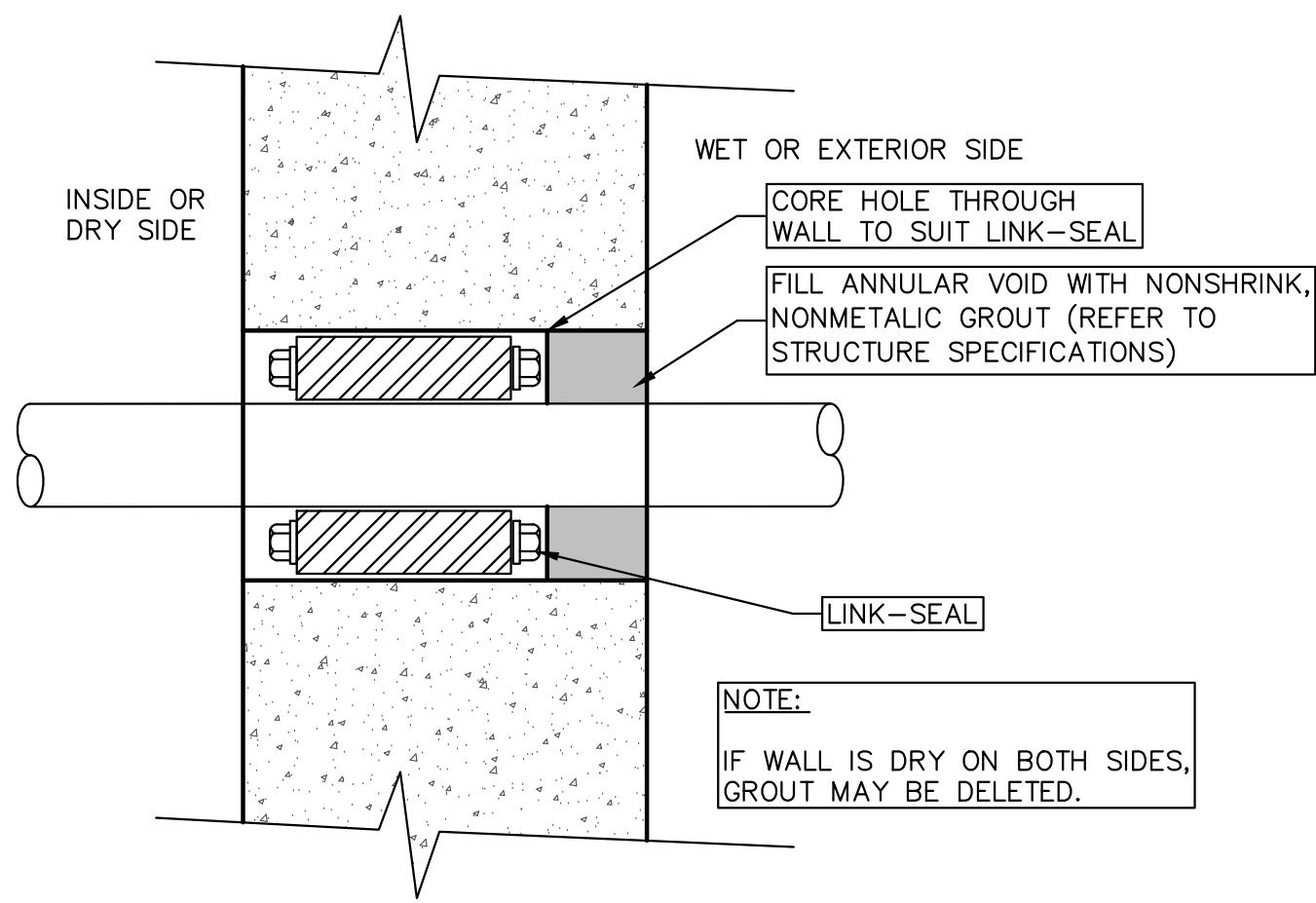
A & M FILE: 24-5038

DRAWING DATE: JUN, 2025

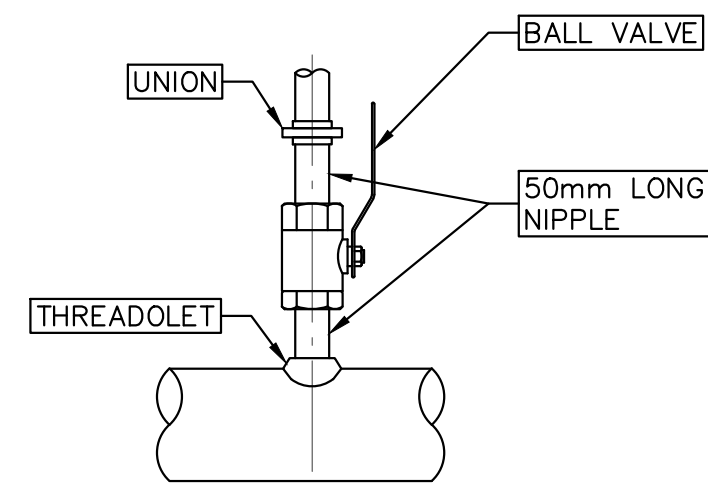
SHEET NO. 03 OF 04 REV. 04



FRP WALL PIPE PENETRATION (TYP.)

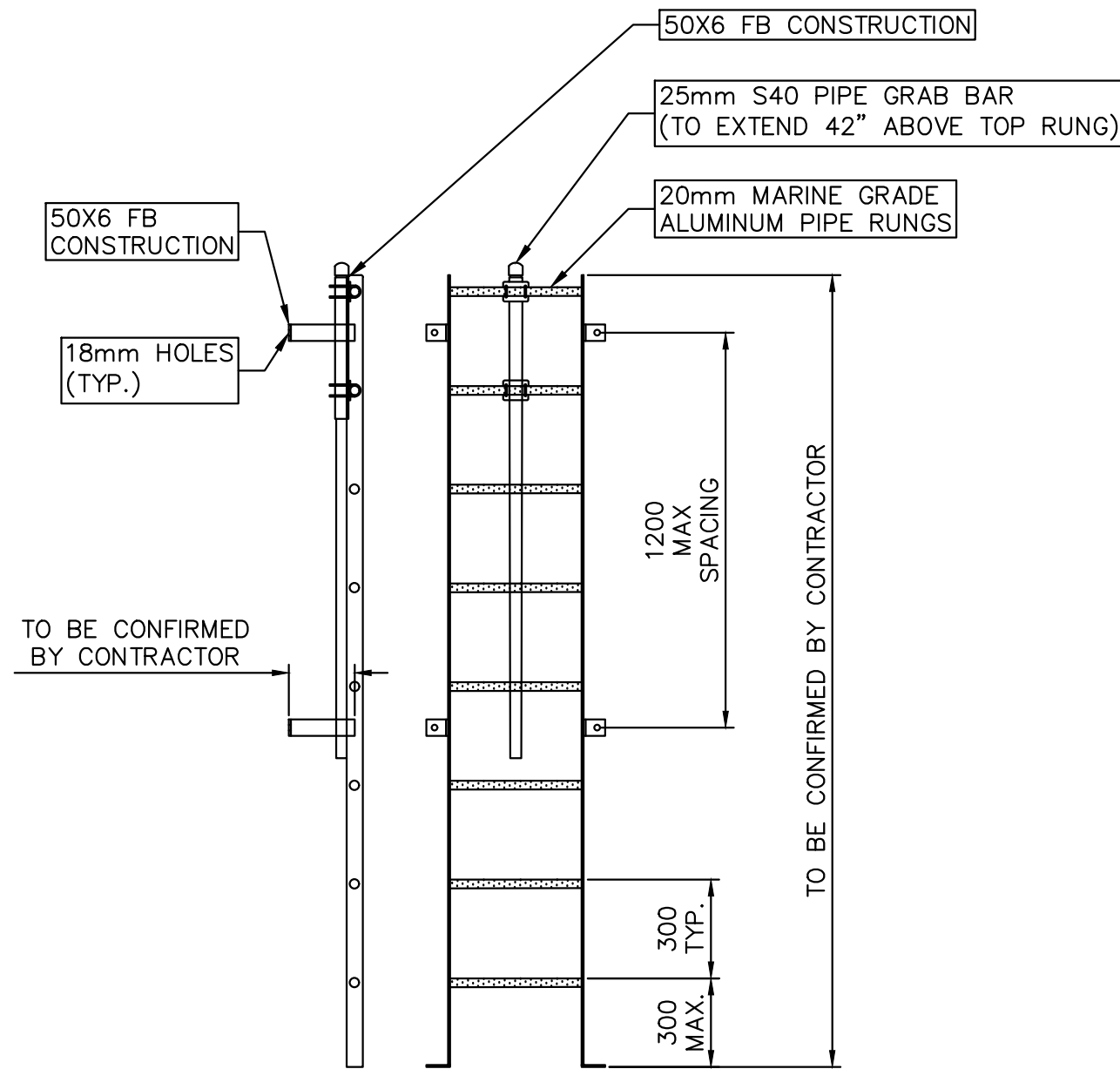


LINK-SEAL WALL PENETRATION (TYP.)

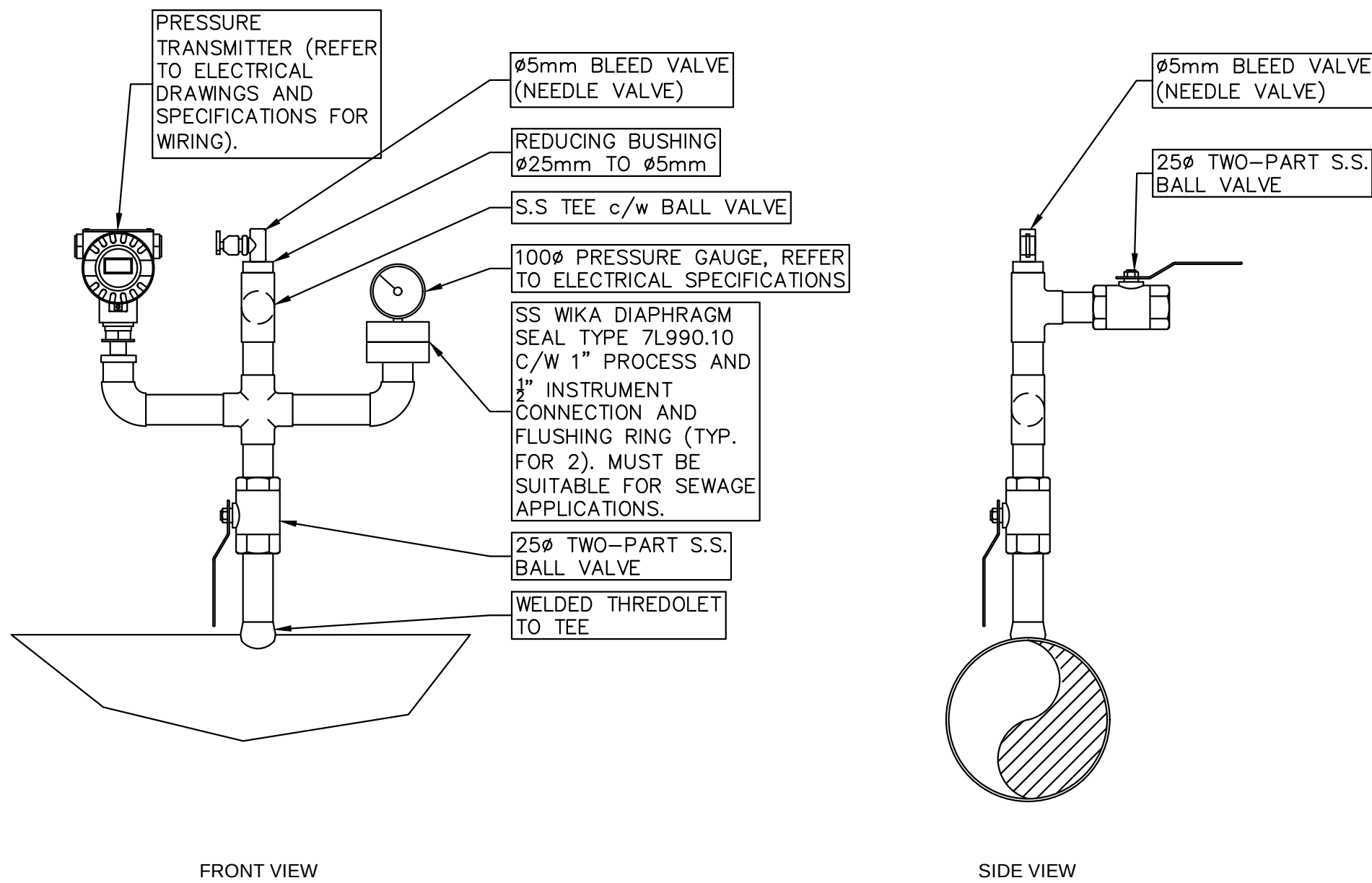


- NOTES:
1. IF SIZE OF BRANCH IS EQUAL TO THE MAIN LINE PIPE, INSTALL THREADED TEE FITTING INSTEAD OF THE THREDOLET.
 2. LINE PIPE AFTER INSTALLATION OF THREDOLET

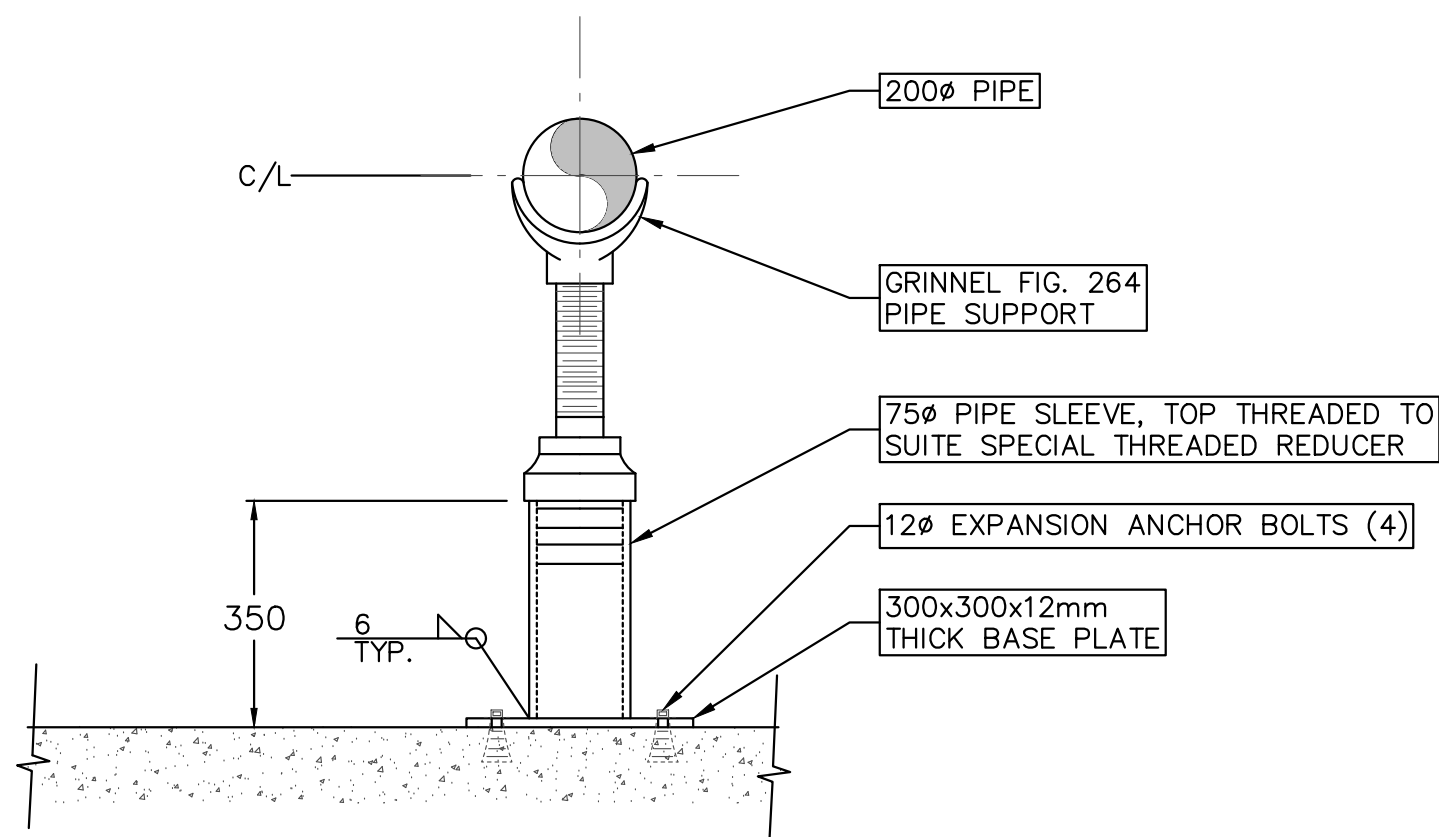
PIPE TAPPING (TYP.)



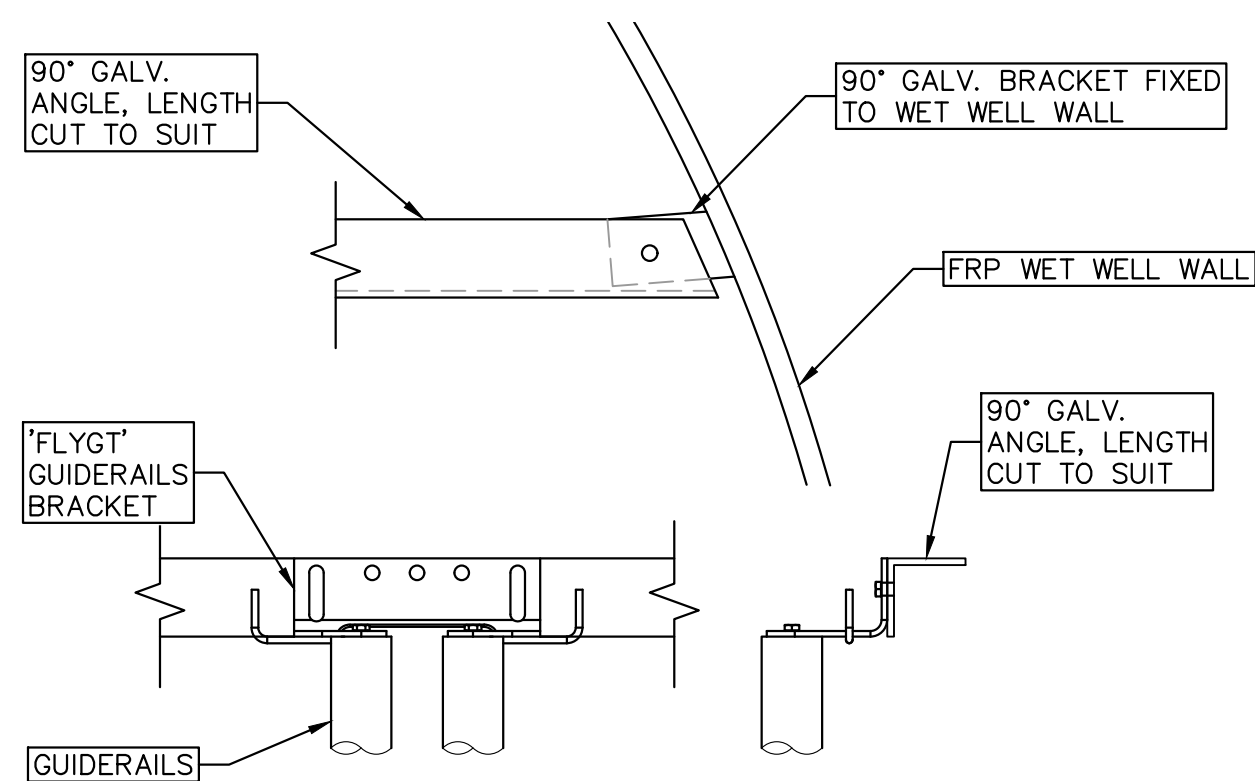
PULL UP LADDER DETAIL
SCALE N.T.S



PRESSURE GAUGE /TRANSMITTER
ARRANGEMENT DETAIL



ADJUSTABLE PIPE SUPPORT DETAIL



PUMP GUIDERAIL BRACKET

NOTICE TO CONTRACTOR

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LEGAL DESCRIPTION: .						
B.M.	MONUMENT NO.	ELEVATION:				
LOCATED AT	STREET &	AVENUE				
REV. NO.	DESCRIPTION	DR	CH	DATE	APP	
1	ISSUED FOR COORDINATION	PCN	ER	10/06/25	LO'C	
2	ISSUED FOR 90% DETAILED DESIGN	FG	ER	09/10/25	LO'C	
3	ISSUED FOR TENDER	FG	ER	22/01/26	LO'C	
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Aplin & Martin Consultants Ltd.
201 - 12448 82 Avenue, Surrey, B.C. Canada V3W 3E9
Tel: (604) 597-9058, Fax: (604) 597-9061, Email: general@aplinmartin.com

CLIENT:	CITY OF NEW WESTMINSTER 511 ROYAL AVENUE, NEW WESTMINSTER, BC, V3L 1H9 604-521-3711
PROJECT:	SANITARY PUMP STATION UPGRADE PRE-DESIGN NEW WESTMINSTER BC

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TITLE:		DESIGN: MDJ CHECK: JAH DRAWN: KDD APPR: JAH	
SA-11 PUMP STATION STANDARD DETAILS		A & M FILE: 24-5038	
PROJECT NO.	SCALE : AS SHOWN HORZ. N/A VERT. N/A	DRAWING DATE: JUN, 2025	
DRAWING NO.	A & M DRAWING NO. 24-5038-P03	SHEET NO. 04 OF 04	REV. 3

